GENERAL

This addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated November 2024 and consists of pages AD2-1 through AD2-10 The following changes, additions and/or deletions shall be made to the following documents: all other conditions shall remain the same.

ITEM NO. I – CONTRACT DOCUMENTS
ANNOUNCEMENT TO PREQUALIFIED BIDDERS
SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

1. CHANGE Bid Date from 12/12/2024 to 12/17/2024. Location and time of day of bid submission shall remain unchanged.
2. CHANGE Questionnaire Date from 12/13/2024 to 12/18/2024. Location and time of day of questionnaire submission shall remain unchanged.
3. CHANGE Bid Opening from 12/19/2024 to 12/30/2024. Location and time of day of bid opening shall remain unchanged.

ITEM NO. II – SPECIFICATIONS

1. REVISED SECTION 00000 – TABLE OF CONTENTS
2. ADD SECTION 10520 – FIRE EXTINGUISHERS AND CABINETS
3. ADD SECTION 10801 – TOILET AND BATH ACCESSORIES
4. ADD SECTION 284600 – FIRE DETECTION AND ALARM

ITEM NO. III – DRAWINGS

1. REVISED SHEETS: G111, A111, A400, A401, A511A, A511B, A511C, A541A, A541B, A551, A552, A652, A710, A831, A832, S201, M511B, M512, E001, E311A, E312A, E313A, E542, E701 and FP-2.

ITEM NO. IV – CLARIFICATIONS

RFI #1: Specification Section 13281 - Please provide haz mat report for us to abate the lead and other Haz mat material. Spec 13281 implies bids to hire survey. How do we know what is Hazardous material and to what extent?
Response: Demolition Plans have been revised to indicate known hazardous material locations and extents. See revised sheets A511A, A511B and A511C.

RFI #2: Specification Section 13281 - On Spec 13281 Site Characterization list suspected items only -'Refer to drawings'. Please provide drawings. Demo drawing do not indicate what walls have lead and what degree.
Response: See response to RFI #1.

RFI #3: Specification Section 13281 - Has the rest of area been tested. Example flooring, caulking for Asbestos? Or lead paint on walls?
Response: See attached table of historical sampling results from Entek.

RFI #4: Documents indicate 660 day total, but what is the anticipated start date. That will be critical to price.
Response: NTP date is anticipated for 1/28/25; please note submission requirements in the Bid Book, Section 5.4 Modification or Withdrawal of a Bid.

RFI #5: Please confirm this job is Prevailing Wage and Skilled and Train will be required. Also, does the Skilled and Trained requirement only apply to certain trades or all trades and sub-tiers?
Response: See Addendum #1.

RFI #6: Specification Section 014300 - Please what Mockups will be required on this job. 014300 is not specific to this project.
Response: No mockups will be required for this project.

RFI #7: Confirm Spec 232113 is incorrect no delegated duct design is required.
Response: Assuming the comment is intended for 23 31 13, The ducting engineering design is completed. Paragraphs 1.03 A&B are intended to inform the duct construction requirements and the seismic bracing of ducting (as applicable) per the listed OPM.

RFI #8: Sheet G111 - Confirm Deferred Approval is limited to Seismic Bracing of Utilities only.
Response: Deferred Approval is limited to Seismic Bracing of Utilities only. Utilities include bracing of mechanical, plumbing, fire sprinkler and electrical systems as required by CBC 1617A.

RFI #9: Sheet A831 - Confirm items marked as 'A' is Supplied and install by GE. Contractor is to furnish access per item 'C'. Main Rad Equipment is by GE.
Response: See revised sheet A831.

RFI #10: Sheet A831 - Confirm on Rm 1878A item 7 should not be marked 'B'. It should be supplied and installed by GE same as in Room 1865.I item 7 both are NM Gantry (without Collimators- wt is 4251lb).
Response: See revised sheet A831.

RFI #11: Sheet FP-1 - Will details for up-turned fire sprinkler heads and interim condition of AFS during construction by phase be provided by the DPOR?
Response: See added sheet FP-1.

RFI #12: Sheets A551/A832 - Please provide specifications for toilet accessories required for this project as referenced on A551. All accessories are CFCI per A551 unless other wise noted. Items such as soap dispensers, paper towel and toilet paper dispensers are typically owner/vendor provided on this campus as indicated on A832. Please provide spec and clarify.
Response: See added spec section 10801 and revised sheet A551.

RFI #13: Sheet A551 - Note at elevation indicates existing fire extinguisher cabinets to be relocated. Keynote indicates new. Please clarify which applies.
Response: See revised sheet A551 and added spec section 10520.

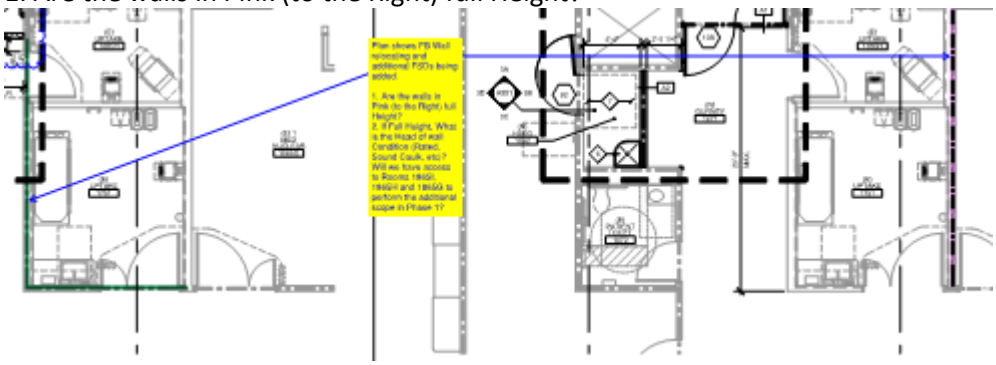
RFI #14: Please provide available temp power panel/ckt information by phase including any requirements for temporary power routing and support.
Response: Contractor may use existing 50A/2P spare circuit breaker in Panel N2LD5 for temporary construction power, see revised sheet E701 for added #9 number note on revised Sheet E701. Contractor may use a

combination of EMT conduit, flex, and/or MC above ceiling for temporary power. Confirm w/ PO&M if panel and breaker are acceptable for use prior to installation.

RFI #15: Sheet A511A, Phase 1 Demolition Plan - Is this note correct for these conduits?
Response: Note 13 is correct for Room 1878. Note 6 and trenching has been removed, see revised sheets A511A, S201 and E311A.

RFI #16: Sheet A511A, Phase 1 Demolition Plan - Why is this called out in Phase 1? Is this opening being unsized for bed access during Phase 1? What is the alternate route for Gurney Access to Rooms 1865I, 1865J and 1875K during the Cross Corridor Relocation Scope
Response: Performance of the cross corridor (Departmental) doors work will require sub-phasing of work and schedule coordination with the University. Gurney/patient access to Rooms 1865I, 1865H and 1865G via accessible doors off (E) Corridor 1890.

RFI #17: Sheet A511A, Phase 1 Demolition Plan - Plan shows FB Wall relocating and additional FSDs being added.
1. Are the walls in Pink (to the Right) full Height?



Response: The walls are full height.

2. If Full Height, What is the Head of wall Condition (Rated, Sound Caulk, etc)? Will we have access to Rooms 1865I, 1865H and 1865G to perform the additional scope in Phase 1?

Response: The existing top of wall condition are fire rated. Access to Rooms 1865I, 1865H and 1865G will be available upon schedule coordination with the University.

RFI #18: Detail 21/A652 includes an Armstrong SC151225 attachment to partitions for Specialty LED Light Fixtures, but does include how it attaches. Please clarify the attachment requirements.
Response: See revised sheet A652, detail 21.

RFI #19: Sheet A111 - Please confirm which phase the (N) Infusion Treatment Demolition/Renovation Plan will be included in.
Response: Performance of Infusion Treatment work shall be concurrent with Phase 1. Work in this area shall start no sooner than March 1, 2025.

RFI #20: Sheet G131 - Please confirm that the Restrooms outlined on Sheet G131 will not be included in the General Contractor's scope of work.
Response: Restrooms identified by keynotes 5, 6, 7, 8, 9, 10 and 11 are for HCAI reference only – no work required.

RFI #21: Please confirm if the Non-Shrink, Non-Metallic Structural Grout referenced in Detail 6/A640 is to be used for the trench duct infill locations as seen on Sheets A511A, A511B, and A511C.
Response: Yes, non-shrink structural grout is for trench duct infill. Also reference detail 1-S201 provided Bid Addenda drawings.

RFI #22: The existing door schedule on Sheet A710 references Detail 29/A821, however Detail 29/A821 does not exist. Please provide the detail.
Response: Detail reference removed. See revised sheet A710.

RFI #23: Detail 18/S-502 shows Equipment/Cabinetry Backing, but does not show any angled brackets. Please advise if an angle bracket(s) will be required at all countertops locations.
Response: Casework attachment to structure is per architectural drawings. Refer to sheet A640.

RFI #24: Demolition Keynote 5 /A541A calls for "CEILING ITEMS TO BE RELOCATED," but does not point to any specific item on the Demolition Plan. Please clarify on what the ceiling item(s) to be relocated are.
Response: This was a graphic error. See revised sheet A541A.

RFI #25: Demolition Keynote 2/A511B calls for areas "NOT USED", however "NEW OPENING" is directly above Keynote 2 on the Demolition Plan. Please confirm if this is a New Opening for a Door as suggested on the Renovation Plans.
Response: Keynote 2 is changed to Keynote 1. See revised sheet A511B

RFI #26: Demolition Keynote 6/511A states "SCAN FLOOR AND REMOVE TOPPING SLAB TO ACCOMMODATE TRENCH DUCT," but is pointing to dashed lines where Keynote 13 is referenced in other locations for the dashed lines. Keynote 13 states "FLOOR CONDUIT & PENETRATIONS TO BE REMOVED. PATCH & REPAIR SLAB AS REQ'D." Please confirm if Demolition Keynote 6 on the Demolition Plan is intended to refer to the scope of work described in Keynote 13?
Response: See response to RFI #15.

RFI #27: The work area outlined in Sheet A541A is outside of the work area outlined in Sheet A511A. Please clarify the work area limits.
Response: Ceiling work indicated on A541A will require the Contractor to coordinate relocation of temp barrier, performance of work and schedule of work with the University.

RFI #28: Demolition Keynote 1/A511A calls to "DEMOLISH PORTION OF (E) WALL FOR NEW OPENING," but points to a location outside of the work area. Please clarify.
Response: Assuming that referenced Keynote 1 is at door in (E) CORR 1870D, it has been removed. See revised sheet A511A.

RFI #29: Demolition Sheet Note 5 on Sheet M512 does not get referenced in the Demolition Plan. Please clarify if Note 5 applies and the locations where it does apply.
Response: This note does not apply and has been removed. See revised sheet M512.

RFI #30: Sheet A511A - Confirm Nuc Med 1 should have 4lb lead all walls. There may be a typo calling for 40Lb at wall near line 2.
Response: The location of 40LB lead as indicated is existing and correct.

RFI #31: Sheet A511A - Confirm all Existing Rad equipment is to be removed by owners Vendor. Contractor to Make Safe only. Note 8 demo call for remove relocate equip 'as required.' Contractors do not relocate or demo such equipment.
Response: Note 8 is a general note and was not intended to include the imaging equipment to be removed by Vendor.

RFI #32: Sheet E311A - Please provide make and model number used as the basis of design for the flush floor duct shown on drawings E311A, E312A, and E313A. Also, please provide specification for the flush floor duct.
Response: Contractor shall provide Legrand Series VA6W250H or VA12W250H-5 w/ minimum w/ 2 dividers. Provide all required hardware and covers for complete installation. See revised sheets E311A, E312A, & E313A.

RFI #33: Sheet A401 - Clarify what partition needs to remove or incidental work necessary for owner vendor to install new Rad Equipment per note 1 on A401 sheet notes. We do not know path. We can not accept 'notes 'But is not limited to the removal of existing partitions of construction whether shown or NOT'.
Response: Refer to revised sheet A111 that clarifies path of equipment delivery that requires width greater than door widths along corridor 1890.

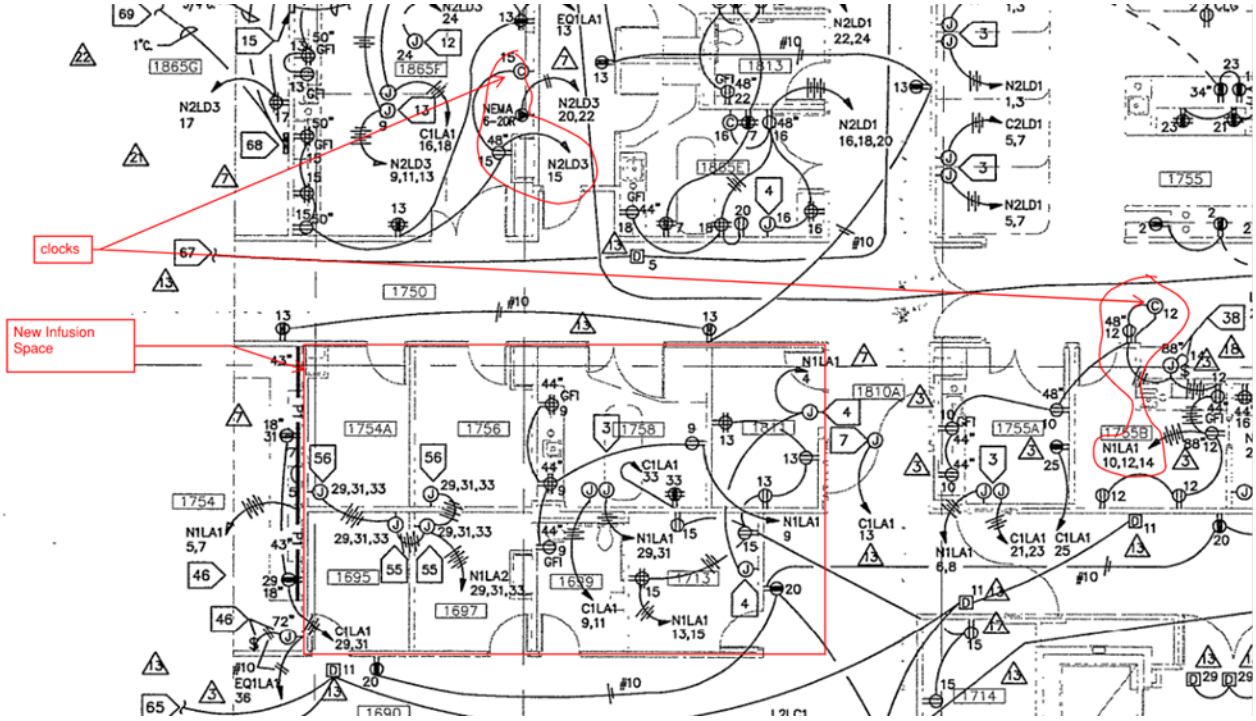
RFI #34: JCI is the existing in-house Temperature Controls Vendor. Will they be bidding direct to the Owner or as a subcontractor to the Mechanical Subcontractors?
Response: All controls work is the responsibility of the General Contractor.

RFI #35: Div 27/Sheet E001 - Tel cabling is specified in division 27 and locations on shown on E511A through E512 but the symbol on E001 and the specs do not show the number of cables per location. Please clarify.
Response: See updated sheet E001, contractor to provide (3) active ports per data drop, unless noted otherwise.

RFI #36: E311A indicates the MDP is to be ordered from GE. Item 14 on drawing A831 for Room 1878A indicates the MDP is supplied by GE as part of their order. Please clarify if bidders are to buy the MDP from GE or if UCDH is purchasing this item with the GE package. If bidders are to buy the MDP, please provide contact information for GE. This is typical for a number of items, such as UPS, in all the imaging rooms..
Response: MDP and UPS are GE supplied. See sheets E311A, E312A, & E313A, note for ordering from GE has been removed. See Sheet A831 for clarification of GE supplied equipment.

RFI #37: Sheet A710 - Clarify 3M Film TBD. What type of film at ICU doors..
Response: 3M Fasara™ Glass Finishes – YAMATO (SH2PTYA). See revised sheet A710.

RFI #38: Sheet E512 - There are two new clocks shown on drawing E512 (note 4) tied to circuit N1LA1-9 but specification 27 53 13 item 3.2.A directs us to wire all secondary clocks in parallel. Therefore, we believe these two new clocks need to be connected to an existing clock circuit, such as the existing clock shown on drawing E511B, in order for the master clock to synchronize with the new clocks. Please confirm..
Response: It was observed in the as-builts provided for the Davis Tower that the existing clocks near the new infusion space are connected to different receptacles circuits, not in parallel. No changes to electrical plans for the clocks. See attached snapshot below for confirmation.



RFI #39: Assuming Section 011100 - Confirm in Lead is limited to Walls to 7' as shown on wall call out. No Lead floors per the Phasing writeup spec section 01100.
Response: Known existing lead at walls is from floor to 7FT above finish floor. No known lead at floor.

RFI #40: Clarify Abatement Requiremets. You have existing Rad rooms. These rooms would have lead wall needing demo. Unknow lb. of lead or any other Abatement work.
Response: See response to RFI #1.

RFI #41: Since there is lead Abatement and New Lead install clarify if there is an exemption for Skill in Train in these trades. Per the trades there is not an apprentiship in that union for that work.
Response: Non-apprenticeable occupations are exempt from this requirement.

RFI #42: Confirm what is the stud gauge size and spacing required for areas to receive 16lb , 25lb, 40lb lead sheets.
Response: 3 5/8”x16ga metal studs @ 16”cc will be sufficient for the walls with 25# of lead applied to them. The 40# portion of wall is existing in 1878.

RFI #43: Please confirm per DIR workforce legislation, the excluded trades in 2.1.9 must still meet the 30% graduation requirement and all others comply with the 60% requirement.

Response: Please refer to the DIR STW Q&A table for minimum percentage graduation requirements per trade. https://www.dir.ca.gov/Public-Works/ADA-Compliant-STW-FAQ.pdf

RFI #44: Sheet A511A - Renovation Keynote 7 on Sheet A511A states that Room 1878C is to have (N) Flooring and Base, however the Demolition Plan does not call for that Room 1878C's flooring to be demolished. Please confirm that the (E) flooring and base in Room 1878C is to be demolished..
Response: Yes, the (E) flooring and base in Room 1878C is to be demolished. See revised sheet A511A.

RFI #45: Please identify any special requirements for the Nuc Med and PDC equipment installation.
Response: Nuc Med and related equipment contains both OFOI and OFCI components. The OFCI components (early delivery items for base plate, electrical disconnects, backboxes, etc.) will be delivered to the University warehouse. The Contractor will be responsible for pick-up and transport of these items from the University warehouse (7301 14th Avenue Sacramento) to the project site. The Contractor will also be responsible to coordinate and facilitate the delivery and site logistics related to all OFOI and OFCI equipment. PDC related OFCI items will also be delivered to the University warehouse. The Electrical Subcontractor, through its' contract with the Contractor, will be responsible for pick-up and transport of PDC items from the University warehouse to the project site.

RFI #46: Sheet A511A - Detail 2 Demolition, the existing FB wall is located at the corridor side of Rooms 1865H and 1751. Detail 1 Renovation shows the FB wall North of Room 1865H and west of Rooms 1865H & 1751. Please confirm if this work is included in this project and if Temporary Barriers will be required to accommodate for this.
Response: Anticipated work for FB walls is above ceiling mech work. Temp barriers are not anticipated, only ICRA measures.

RFI #47: Sheet A511A The Cross Corridor Doors are to be relocated. This is the entry to the Nuc Med Suite. Once these doors are under construction, how will Bed Access be detoured?
Response: "Cross Corridor Doors" are NEW not Relocated. See response to RFI #16.

RFI #48: Sheet A511B - Detail 2 Demolition, shows temp walls to the West & North of Rooms 1865J and 1865I. Please confirm that Temp Walls will be needed at the east side where the existing door opening is to be removed and infilled.
Response: Yes, temporary barrier will be required. See revised sheet A511B.

RFI #49: Sheet A541A - Detail 1 Keynote 4 calls out a (N) Bulk Head at Corridor 1710A. This portion of the corridor is outside Phase 1. Please confirm if this corridor will be included in the work area for us to add the Bulk Head Soffit, and if required, please provide the additional temp walls for this work.
Response: See response to RFI #27.

RFI #50: Sheet A541A - Please provide a detail on how the existing T-Bar & (N) T-Bar grid will transition at the corridor Northwest of Room 1865J?
Response: See revised sheet A541A.

RFI #51: Sheet A710 - New Door Openings 10A, 10B, 65K, 74 are labeled Type B. The Door schedule does not provide a type of Glass for these openings. Please provide.
Response: See revised Door Schedule on A710.

RFI #52: Sheet M511A - Detail 2 calls out 3 FSDs outside the work area. Please confirm if these FSDs are to be included in the project. Additionally, will the adjacent rooms be turned over to the GC to complete this install?
Response: Yes, these are included in the project. FSD work shall be completed in a maximum 1-wk duration for each room. Contractor shall include all overtime as necessary to complete this work in the requested duration to minimize downtime for these rooms.

RFI #53: Sheet A511A - New Work Sheet Note 4 at the center of Room 1878A, What does this call out pertain to?
Response: Keynote 4 calls for installation of new casework, see interior elevation 3C/A552.

RFI #54: The construction documents outline scope for fire alarm and nurse call, but the received specification package does not support this scope. Please advise on division-28 specifications to support constructability efforts for fire alarm and nurse call.
Response: For Fire Alarm, Specification Section 284600 has been added. Contact Robert Renberg, 559-259-2125, Robert.renberg@jci.com. For Nurse Call, nurse call vendor to supply and install cable and hardware. Electrical contractor to supply all supporting infrastructure. Shop drawings will be provided in the CA phase; contact Matt Kraft, 707-416-3142, mkraft@westcomtv.com.

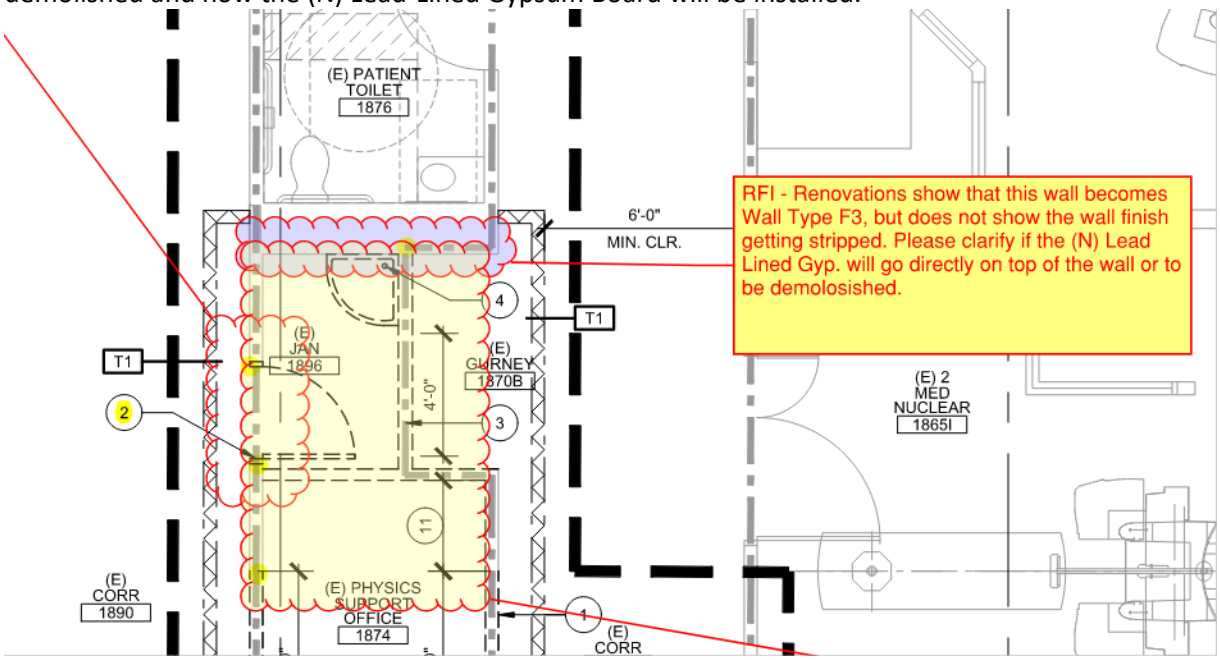
RFI #55: Sheet G111, General Note 13 states that all items shall be removed from the site and returned for his use. Please confirm this is the intent.
Response: Refer to spec section 02070 for additional information. Final coordination with the University will be required.

RFI #56: Sheet A110, Sheet Note 4, states that the general contractor shall review and verify existing condition of the site prior to submitting a bid for the project. Please advise if there will be a job walk held to verify existing conditions, or if this note will be removed from the contract drawings
Response: Note to be removed from the contract drawings.

RFI #57: Sheet A511A - Detail 2/511A, Demolition Note 8, states Remove/Relocate (E) Furnishings & Equipment as Req'd. The note is pointing to the imaging equipment. Please confirm the general contractor is to include cost to remove this equipment.
Response: Note 8 is a general note and was not intended to include the imaging equipment to be removed by Vendor.

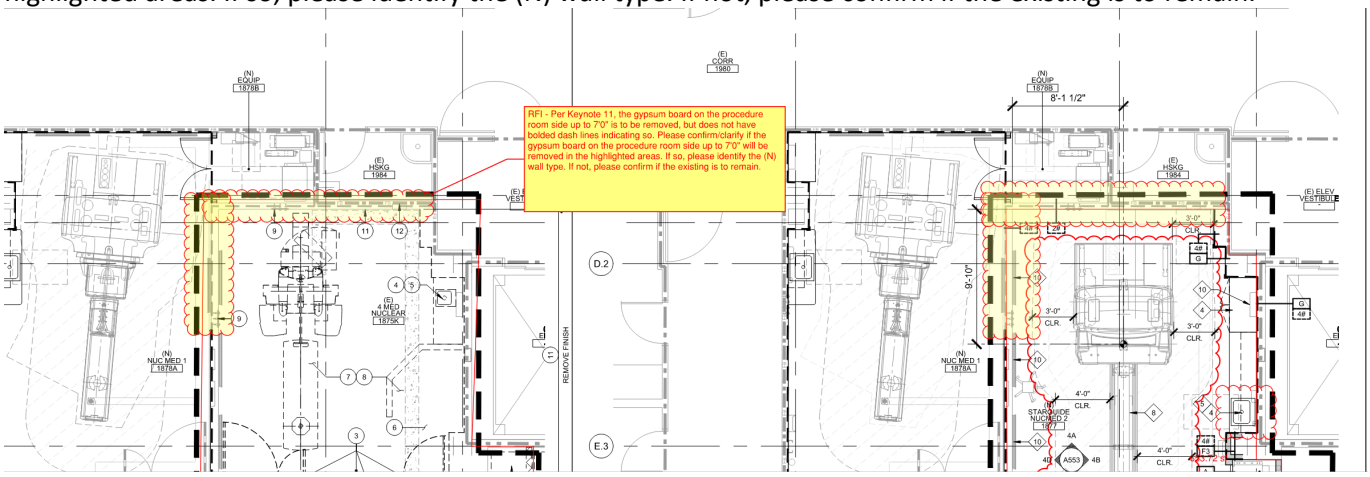
RFI #58: Sheet A511A - The Renovation Plan on Sheet A511A shows (N) Wall Type F3 going up, but does not show the wall and/or gypsum board getting demolished. Please clarify if the wall as highlighted in the image will be

demolished and how the (N) Lead-Lined Gypsum Board will be installed.



Response: F3 is correct. See revised sheet A511A for clarification.

RFI #59: Sheet A511C - In the highlighted areas as shown in the image, per Keynote 11, the '(E) GYPSUM BOARD ON THE PROCEDURE ROOM SIDE UP TO 7'0"'is to be removed, but does not have bolded dash lines indicating such. Please confirm/clarify if the gypsum board on the procedure room side up to 7'0" will be removed in the highlighted areas. If so, please identify the (N) wall type. If not, please confirm if the existing is to remain.



Response: See revised sheet A511C for clarification.

RFI #60: Sheet A620/621 - Please advise on where concrete curbs are required for (N) wall types as noted in Sheets A620 and A621.

Response: No, curbs are required for this project.

RFI #61: Sheet E541A - Please confirm undercounter lights as shown on Detail 22/A640 are only required as indicated on Sheet Note 5/E541A.

Response: That is correct.

RFI #62: Please confirm that the Best Value Questionnaire can be submitted on Tuesday,12/17/2024 by @2PM.
Response: Best Value Questionnaire submission date to be changed to Wednesday, 12/18/2024 at 2:00 PM.

RFI #63: Sheet A832 - The Ancillary Equipment Legend on Sheet A832 shows that the following items as highlighted in the image are Owner Furnished, Contractor Installed. Please confirm if the intent is for the General Contractor or the Owner to install them as the Owner typically installs them.
Response: Contractor is to install.

RFI #64: The Fire Sprinkler Plan is produced by Marquee Fire Protection. Will this be Sole Sourced to Marquee Fire Protection or may we onboard other contractors.
Response: Marquee is the design professional for this project. Installation may be performed by vendor of Contractor's choice, consistent with the requirements of the contract documents.

RFI #65: Can we use conventionally framed walls for rated temporary construction barriers.
Response: No. All rated temporary construction barriers shall be FIREBLOCK WALL by STARC SYSTEMS or EQUAL. All work that compromises the rating for existing fire rated assemblies must be completed behind an approved temporary rated wall with an approved ILSM per the specifications. For work that cannot be completed behind temporary rated walls or in conditions where the temporary wall increases the life safety hazard as determined by the FMO, this work shall be completed with an approved ILSM from the FMO that includes dedicated fire watch personnel 24/7 from the time the rating is compromised until the rating is restored and accepted as complete by the University IOR.

RFI #66: Are contractors expected to attend RFS meetings with PO&M.
Response: Yes; as part of the utility coordination specification requirement, contractors and subcontractors are required to attend all RFS meetings that pertain to their scope of work. Prior to the RFS contractor (and subcontractor) shall investigate and identify all impacted areas.

RFI #67: Detail 3B/A553 calls out for an O.F.O.I. Cubicle Drapery (Curtain, Curtain Track). It is the only one noted on the plans. Spec. Section 011100. 1.01E UNIVERSITY FURNISHED/UNIVERSITY INSTALLED does not call out this item. Please confirm/clarify if all the equipment listed in Spec. Section 10190 CUBICLE DRAPERY will be O.F.O.I. as noted on the plans, or if the GC is to supply and install?
Response: Cubicle curtain is OFOI. Curtain track is CFCI.

_____

Craig Ganes – Project Manager
Facilities Design & Construction
UC Davis Health

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SECTION 10520
FIRE EXTINGUISHERS AND CABINETS

PART I - GENERAL

1.01 DESCRIPTION

A. Scope: Work under this Section includes all materials and installation necessary to provide Fire Extinguishers and Cabinets, as shown and detailed on the drawings and specified herein.

B. Related Work Specified Elsewhere:

1. Division 6, Section 061000 – ROUGH CARPENTRY

1.02 QUALITY ASSURANCE

A. References:

1. American National Standards Institute:

a. ANSI/NFPA 10: Portable Fire Extinguishers.

b. ANSI/UL 711: Rating and Fire Testing of Fire Extinguishers.

2. National Fire Protection Association (NFPA): Standards.

3. Underwriters Laboratories (UL): Standards for fire extinguishers.

B. Qualifications: Installer specializing in the work of this Section with minimum three (3) years documented experience; manufacturer and approved.

1.03 SUBMITTALS

A. General: Refer to Section 013300 – SHOP DRAWINGS, PRODUCT DATA AND SAMPLES.

B. Product Data: None required for specified products; required for alternate products.

C. Certificates: Submit manufacturer's certificate stating that materials meet or exceed specified requirements.

1.04 PRODUCT HANDLING

A. General: Refer to Section 013100 – COORDINATION.

1.05 SITE CONDITIONS

A. Environmental Requirements: Do not install when temperatures may cause freezing of extinguisher ingredients.

1.06 MAINTENANCE

A. General: Refer to Section 017700 – CLOSEOUT PROCEDURES.

B. Maintenance Data: Manufacturer's instructions.

C. Guarantee: On form provided at end of Section 017800 – CLOSEOUT SUBMITTALS, provide one (1) year written guarantee commencing from date of final acceptance by University's Representative.

PART II - PRODUCTS

2.01 MATERIALS

A. Manufacturers:

1. Amerex Corp.: Amerex Model #441 10lbs. 4A:60BC dry chemical fire extinguisher, or equal.

2. JL Industries 1017F10 Ambassador Cabinet-Full Glazing Door, Semi Recessed-3in Round Edge, or equal.

B. Cabinets:

1. Mounting: Semi recessed mounted.

2. Material and Finish:

a. General: White powder-coated tub, door and trim.

b. Size: 12" wide x 24" high x 8" deep.

c. Door Style: Door to be glass panel in metal frame. Latch is to be roller latch for in-door locations and lockable break glass for outdoor locations.

d. Glazing: Tempered glass; color as selected by University's Representative.

e. Lettering: Manufacturer's standard, horizontal; color as selected by University's Representative.

C. Extinguishers:

1. Extinguishers must have current service tag with monthly sign-off lines on reverse of tag.

2. General: Fire fighting devices must be listed by Underwriters' Laboratories, Inc., bear a UL label, and be approved by the California State Fire Marshal.

D. Fasteners: As recommended by manufacturer.

PART III - EXECUTION

3.01 PREPARATION

A. General: Refer to Section 013100 – COORDINATION.

B. Examination: Examine conditions of work in place before beginning work; report defects.

3.02 INSTALLATION

A. General: Install in conformance with referenced standards, manufacturer's written directions, as shown, and as specified.

B. Cabinets: Where shown; anchor components firmly in place.

C. Wall Brackets: Install as required by codes and regulations or as shown; anchor components firmly in place.

D. Extinguishers:

1. Cabinet: One (1) extinguisher for each cabinet.

3.03 FIELD QUALITY CONTROL

A. Service: Inspect, charge and tag fire extinguishers not more than ten (10) days prior to occupancy of building by University’s Representative.

3.04 ADJUSTMENT

A. General: Prior to acceptance of cabinets, adjust moveable door parts to assure smooth operation.

3.05 CLEANING

A. General: Upon completion, thoroughly clean exposed surfaces per manufacturer's instructions.

END OF SECTION 10520

SECTION 10801
TOILET AND BATH ACCESSORIES

PART I - GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Special Provisions and Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY

A. Section Includes:

1. Washroom accessories.

1.03 ACTION SUBMITTALS

A. Product data.

B. Samples: For each exposed product and for each finish specified, full size.

1. Approved full-size Samples will be returned and may be used in the Work.

C. Delegated Design Submittals: For grab bars.

1. Include structural design calculations indicating compliance with specified structural-performance requirements.

1.04 INFORMATIONAL SUBMITTALS

A. Sample warranties.

1.05 CLOSEOUT SUBMITTALS

A. Sample warranties.

1.06 WARRANTY

A. Manufacturer's Special Warranty for Mirrors: Manufacturer agrees to repair or replace mirrors that fail in materials or workmanship within specified warranty period.

1. Warranty Period: 10 years from date of Substantial Completion.

PART II - PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

A. Structural Performance: Design accessories and fasteners to comply with the following requirements:

1. Grab Bars: Installed units are able to resist 250 lbf (1112 N) concentrated load applied in any direction and at any point

2.02 MANUFACTURERS

A. Single Source Responsibility: Provide products of each type from a single manufacturer for entire Project.

B. Accessories:

1. Basis of Design Products: Subject to compliance with requirements, provide products by the following manufacturer:

a. Bobrick Washroom Equipment, Inc., 6901 Tujunga Ave.; North Hollywood, CA 91605-6213; Tel: 818-764-1000; web: www.bobrick.com

2. Acceptable Alternate: Subject to compliance with requirements, equivalent products by one of the following may be provided with written acceptance of the Architect.

a. American Specialties, Inc. (ASI); web: www.asigroup.us.

b. Bradley Corporation; web: www.bradleycorp.com.

c. Substitutions: Section 01 25 00.

2.03 MIRROR

A. Basis-of-Design Product: Bobrick B-165 Series.

B.

2.04 HAND HYGIENE DISPENSERS (U.F.C.I.)

A. ADA Compliant Surface-Mounted Hand Hygiene Dispenser.

1. Ecolab Model 9202-1193 (Hands-free model.)

2. Ecolab Model 9202-3603. (Manual model.)

2.05 HAND SANITIZER DISPENSERS (U.F.C.I.)

A. Surface-Mounted Hand Sanitizer Dispenser.

1. Ecolab Model 92022019 Quik-Care 7oz

2.06 PAPER TOWEL DISPENSERS (U.F.C.I.)

A. ADA Compliant Surface-Mounted Continuous Hand Towel Dispenser: Unit shall be continuous flow type.

1. Tork Model 552528 (Large model.)

2. Tork Model 552538 (Mini model at locations where Large will not fit.)

2.07 TOILET TISSUE DISPENSERS (U.F.C.I.)

A. ADA Compliant Toilet Tissue Dispenser: Unit shall be continuous flow type. Dispensers

that control delivery shall not be used per CBC 11B-604.7.1.

B. Surface-Mounted Toilet Tissue Dispensers For Two Rolls:

1. Tork Model SCA 5555290.

2. Capacity: 2 rolls - 2.3 inch core toilet tissue rolls up to 7.4 inch diameter

2.08 TOILET SEAT COVER DISPENCER

A. Basis-of-Design Product: Bobrick B-221 Series.

2.09 GRAB BARS

A. Basis-of-Design Product: Grab Bar with snap flange covers, satin finish, and in lengths as shown on drawings: Bobrick B-5806 Series.

1. Compliance: Universal/accessibility design, including ADA-ABA and ICC/ANSI for structural strength.

a. Capacity: Designed to support 900 lbs. (408 kg) in compliant installations.

2. Description: Grab bar with 90 degree return to flange. Clearance between grab bar and finished wall is 1-1/2 inches (38mm).

3. Grab Bar Materials: 18-8, Type 304, 18 gauge (1.2mm) stainless steel tubing with satin finish, ends of grab bar pass through flanges and are heliarc welded to flanges to form one structural unit, outside diameter 1-1/4 inches (32mm).

4. Mounting Flanges: Concealed, 18-8, Type 304, 1/8 inch (3mm) thick, stainless steel plate.

a. End Flanges: 2 inches x 3-1/8 inches (50mm x 80mm) with two holes for attachment to wall.

b. Intermediate Flanges: 2-5/8 inches x 3-1/8 inches (65mm x 80mm) wide x 3-1/8 inch (80mm) diameter.

5. Snap Flange Covers: 18-8, Type 304, 22 gauge (0.8mm) drawn stainless steel with satin finish, 3-1/4 inch (85mm) diameter x 5/8 inches (16mm) deep; snap over mounting flange to conceal mounting screws.

6. Mounting Accessories: Provide the following optional mounting accessories as scheduled and indicated on the Drawings and as required for complete installation.

a. Mounting Kits: Provide optional Bobrick Part No. 252-30 Mounting Kit; 3 Type 304 stainless steel, Phillips round-head, sheet-metal screws for each flange.

b. Grab Bar Fasteners: Provide optional Bobrick Part No. 251-4 WingIt Grab Bar Fastener; round-head, Phillips 18/8 stainless steel screws and grab bar fastener for each flange.

c. Anchor Devices: Provide optional Bobrick Part No. 2586 Optional Mounting Kit; for 1/2 inch (13mm) panels for each flange

2.10 HOOKS

A. Hat and Coat Hooks:

1. Basis of Design: Bobrick Model B-682 / 6827

2. Finish: Bright polish or satin as selected by Architect.

3. Projection from Wall: 3-1/16 inch (80mm).

4. Flange and Support Arm: 18-8, Type 304, 22 gauge (0.8mm) stainless steel.

5. Mounting: Concealed bracket, all-welded, 16 gauge (1.6mm) stainless steel; secured to wall plate with a stainless steel setscrew.

6. Concealed Wall Plate: 18-8, Type 304, 16 gauge (1.6mm) stainless steel.

7. Hook: 18-8, Type 304, 12 gauge (2.8mm) stainless steel, welded to support arm

2.11 PERFORMANCE REQUIREMENTS

A. Structural Performance: Design accessories and fasteners to comply with the following requirements:

1. Grab Bars: Installed units are able to resist 250 lbf (1112 N) concentrated load applied in any direction and at any point

2. Or equal.

PART III - EXECUTION

3.01 INSTALLATION

A. Install accessories in accordance with manufacturers' written instructions, using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units level, plumb, and firmly anchored in locations and at heights indicated.

B. Grab Bars: Install to comply with specified structural-performance requirements

END OF SECTION 10801

SECTION 28 46 00
FIRE DETECTION AND ALARM

PART 1 - GENERAL

PART 2 - GENERAL

2.1 MANUFACTURERS

A. All equipment and components shall be new, and the manufacturer's current model. The materials, appliances, equipment and devices shall be tested and listed by a nationally recognized approvals agency for use as part of a protected premises protective signaling (fire alarm) system. The authorized representative of the manufacturer of the major equipment, such as control panels, shall be responsible for the satisfactory installation of the complete system.

B. All equipment and components shall be installed in strict compliance with each manufacturer's recommendations. Consult the manufacturer's installation manuals for all wiring diagrams, schematics, physical equipment sizes, etc. before beginning system installation. Refer to the riser/connection diagram for all specific system installation/termination/wiring data.

C. All equipment shall be attached to walls and ceiling/floor assemblies and shall be held firmly in place (e.g., detectors shall not be supported solely by suspended ceilings). Fasteners and supports shall be adequate to support the required load.

2.2 SYSTEM COMPONENTS

A. Programmable Electronic Sounders:

1. Electronic sounders shall operate on 24 VDC nominal.
2. Electronic sounders shall be field programmable without the use of special tools, at a sound level of at least 90 dBA measured at 10 feet from the device.
3. Shall be flush or surface mounted as shown on plans.

B. Speakers:

1. All speakers shall operate on 25 VRMS or with field selectable output taps from 0.5 to 2.0 Watts.
2. Speakers in corridors and public spaces shall produce a nominal sound output of 84 dBA at 10 feet (3m).
3. Frequency response shall be a minimum of 400 HZ to 4000 HZ.
4. The back of each speaker shall be sealed to protect the speaker cone from damage and *dust.*

C. Strobe lights:

1. Strobe lights shall meet the requirements of the ADA, UL Standard 1971, be fully synchronized, and shall meet the following criteria:
   a. The maximum pulse duration shall be 2/10 of one second.
   b. Strobe intensity shall meet the requirements of UL 1971.
   c. The flash rate shall meet the requirements of UL 1971.

D. Manual Fire Alarm Stations:

1. Manual fire alarm stations shall be non-code, non-breakglass type, equipped with key lock so that they may be tested without operating the handle.
2. Stations must be designed such that after an actual activation, they cannot be restored to normal except by key reset.
3. An operated station shall automatically condition itself so as to be visually detected, as operated, at a minimum distance of 100 feet (30.5 m) front or side.
4. Manual stations shall be constructed of high impact Lexan, with operating instructions provided on the cover. The word FIRE shall appear on the manual station in letters one half inch (12.7 mm) in size or larger.

E. Conventional Photoelectric Area Smoke Detectors:

1. Photoelectric smoke detectors shall be a 24 VDC, two wire, ceiling-mounted, light scattering type using an LED light source.
2. Each detector shall contain a remote LED output and a built-in test switch.
3. Detector shall be provided on a twist-lock base.
4. It shall be possible to perform a calibrated sensitivity and performance test on the detector without the need for the generation of smoke. The test method shall test all detector circuits.
5. A visual indication of an alarm shall be provided by dual latching Light Emitting Diodes (LEDs), on the detector, which may be seen from ground level over 360 degrees. These LEDs shall flash at least every 10 seconds, indicating that power is applied to the detector.
6. The detector shall not go into alarm when exposed to air velocities of up to 3000 feet (914.4 m) per minute.
7. The detector screen and cover assembly shall be easily removable for field cleaning of the detector chamber.
8. All field wire connections shall be made to the base through the use of a clamping plate and screw.

F. Conventional Ionization Type Area Smoke Detectors:

1. Ionization type smoke detectors shall be a two wire, 24 VDC type using a dual unipolar chamber.
2. Each detector shall contain a remote LED output and a built-in test switch.
3. Detector shall be provided on a twist-lock base.
4. It shall be possible to perform a calibration sensitivity and performance test on the detector without the need for the generation of smoke.
5. A visual indication of an alarm shall be provided by dual latching Light Emitting Diodes (LEDs) over 360 degrees, on the detector, which may be seen from ground level. This LED shall flash every 10 seconds, indicating that power is applied to the detector.
6. The detector shall not alarm when exposed to air velocities of up to 1,200 feet (365.76 m) per minute. The detector screen and cover assembly shall be easily removable for field cleaning of the detector chamber.
7. All field wire connections shall be made to the base through the use of a clamping plate and screw.

G. Duct Smoke Detectors

1. Duct smoke detectors shall be a 24 VDC type with visual alarm and power indicators, and a reset switch. Each detector shall be installed upon the composite supply/return air ducts(s), with properly sized air sampling tubes.

H. Automatic Conventional Heat Detectors:

1. Automatic heat detectors shall have a combination rate of rise and fixed temperature rated at 135°F (57.2°C) for areas where ambient temperatures do not exceed 100°F (37.7°C), and 200°F (93.33°C) for areas where the temperature does not exceed 150°F (65.5°C).
2. Automatic heat detectors shall be a low profile, ceiling mount type with positive indication of activation.
3. The rate of rise element shall consist of an air chamber, a flexible metal diaphragm, and a factory calibrated, moisture-proof, trouble free vent, and shall operate when the rate of temperature rise exceeds 15°F (9.4°C) per minute.
4. Heat detectors shall be resettable and may not be of the type that is destroyed upon initiation. Heat detectors shall be resettable from the alarm control panel once the condition that caused the alarm is corrected.
5. Automatic heat detectors shall have a smooth ceiling rating of 2500 square feet (762 square meters).

I. Waterflow Indicator:

1. Waterflow Switches shall be an integral, mechanical, non-coded, non-accumulative retard type.
2. Waterflow Switches shall have an alarm transmission delay time which is conveniently adjustable from 0 to 90 seconds. Initial settings shall be 30-45 seconds.
3. All waterflow switches shall come from a single manufacturer and series.
4. Waterflow switches shall be provided and connected under this section but installed by the mechanical contractor.
5. Where possible, locate waterflow switches a minimum of one (1) foot from a fitting which changes the direction of the flow and a minimum of three (3) feet from a valve.

J. Sprinkler and Standpipe Valve Supervisory Switches:

1. Each sprinkler system water supply control valve riser, zone control valve, and standpipe system riser control valve shall be equipped with a supervisory switch. Standpipe hose valves, and test and drain valves shall not be equipped with supervisory switches.
2. PIV (post indicator valve) or main gate valves shall be equipped with a supervisory switch.
3. The switch shall be mounted so as not to interfere with the normal operation of the valve and adjusted to operate within two revolutions toward the closed position of the valve control, or when the stem has moved no more than one-fifth of the distance from its normal position.
4. The supervisory switch shall be contained in a weatherproof aluminum housing, which shall provide a ¾" (19 mm) conduit entrance and incorporate the necessary facilities for attachment to the valves.
5. The switch housing shall be finished in red baked enamel.
6. The entire installed assembly shall be tamperproof and arranged to cause a switch operation if the housing cover is removed, or if the unit is removed from its mounting.
7. Valve supervisory switches shall be provided and connected under this section and installed by mechanical contractor.

8. This unit shall provide for each zone: alarm indications, using a red alarm a yellow trouble long-life LEDs and control switches for the control of fire alarm control panel functions. The annunciator will also have an ON-LINE LED, local piezo electric signal, local acknowledge/lamp test switch, and custom slide-in zone/function identification labels.
9. Switches shall be available for remote annunciation and control of output points in the system, system acknowledge, telephone zone select, speaker select, global signal silence, and global system reset within the confines of all applicable standards.

2.3 SYSTEM DEVICES

A. Addressable Devices

1. Addressable devices shall provide an address-setting means using rotary decimal switches.
2. Addressable devices shall use simple to install and maintain decade (numbered 0 to 15/0 to 9) type address switches. Devices which use a binary address or special tools for setting the device address, such as a dip switch are not an allowable substitute.
3. Detectors shall be analog and addressable and shall connect to the fire alarm control panel's signaling line circuits.
4. Addressable smoke and thermal detectors shall provide dual (2) status LEDs. Both LEDs shall flash under normal conditions, indicating that the detector is operational and in regular communication with the control panel, and both LEDs shall be placed into steady illumination by the control panel, indicating that an alarm condition has been detected. If required, the flashing mode operation of the detector LEDs can be programmed off via the fire control panel program.
5. The fire alarm control panel shall permit detector sensitivity adjustment through field programming of the system. Sensitivity can be automatically adjusted by the panel on a time-of-day basis.
6. Using software in the FIRE ALARM CONTROL PANEL, detectors shall automatically compensate for dust accumulation and other slow environmental changes that may affect their performance. The detectors shall be listed by UL as meeting the calibrated sensitivity test requirements of NFPA Standard 72, Chapter 7.
7. The detectors shall be ceiling-mount and shall include a separate twist-lock base which includes a tamper proof feature.
8. The following bases and auxiliary functions shall be available:
    a. Sounder base rated at 85 DBA minimum.
    b. Form-C Relay base rated 30VDC, 2.0A
    c. isolator base
9. The detectors shall provide a test means whereby they will simulate an alarm condition and report that condition to the control panel. Such a test may be initiated at the detector itself (by activating a magnetic switch) or initiated remotely on command from the control panel.
10. Detectors shall also store an internal identifying type code that the control panel shall use to identify the type of device (example: ION, PHOTO, THERMAL).

B. Addressable Manual Fire Alarm Box (manual station)

1. Addressable manual fire alarm boxes shall, on command from the control panel, send data to the panel representing the state of the manual switch and the addressable communication module status. They shall use a key operated test-reset lock, and shall be

designed so that after actual emergency operation, they cannot be restored to normal use except by the use of a key.

2. All operated stations shall have a positive, visual indication of operation and utilize a key type reset.

3. Manual fire alarm boxes shall be constructed of Lexan with clearly visible operating instructions provided on the cover. The word FIRE shall appear on the front of the stations in raised letters, 1.75” (44 mm) or larger.

C. Intelligent Photoelectric Smoke Detector

1. The detectors shall use the photoelectric (light-scattering) principal to measure smoke density and shall, on command from the control panel, send data to the panel representing the analog level of smoke density.

D. Intelligent Ionization Smoke Detector

1. The detectors shall use the dual-chamber ionization principal to measure products of combustion and shall, on command from the control panel, send data to the panel representing the analog level of products of combustion.

E. Intelligent Thermal Detectors

1. Thermal detectors shall be intelligent addressable devices rated at 135°F (58°C) and have a rate-of-rise element rated at 15°F (9.4°C) per minute. It shall connect via two wires to the fire alarm control panel signaling line circuit.

F. Intelligent Duct Smoke Detector

1. The smoke detector housing shall accommodate either an intelligent ionization detector or an intelligent photoelectric detector, of that provides continuous analog monitoring and alarm verification from the panel.

2. When sufficient smoke is sensed, an alarm signal is initiated at the FIRE ALARM CONTROL PANEL, and appropriate action taken to change over air handling systems to help prevent the rapid distribution of toxic smoke and fire gases throughout the areas served by the duct system.

3. Remote indicators for concealed devices shall be located on wall directly under where access to the concealed device will be made. If the installer is unsure where to install a remote indicator, contact UCD fire department for direction.

G. Addressable Dry Contact Monitor Module

1. Addressable monitor modules shall be provided to connect one supervised IDC zone of conventional alarm initiating devices (any N.O. dry contact device) to one of the fire alarm control panel SLCs.

2. The IDC zone shall be suitable for Style A operation. An LED shall be provided that shall flash under normal conditions, indicating that the monitor module is operational and in regular communication with the control panel.

3. For difficult to reach areas, the monitor module shall be available in a miniature package and shall be no larger than 2-¾” (70 mm) x 1-¼” (31.7 mm) x ½” (12.7 mm). This version need not include Style D or an LED.

H. Two Wire Detector Monitor Module

1. Addressable monitor modules shall be provided to connect one supervised IDC zone of conventional 2-wire smoke detectors or alarm initiating devices (any N.O. dry contact device).

2. The IDC zone may be wired for Class B (Style A) operation. An LED shall be provided that shall flash under normal conditions, indicating that the monitor module is operational and in regular communication with the control panel.

I. Addressable Control Module

1. Addressable control modules shall be provided to supervise and control the operation of one conventional NACs of compatible, 24 VDC powered, polarized audio/visual notification appliances.
2. The control module NAC may be wired for Style Y (Class B) with up to 1 amp of inductive A/V signal, or 2 amps of resistive A/V signal operation.
3. Audio/visual power shall be provided by a separate supervised power circuit from the main fire alarm control panel or from a supervised UL listed remote power supply.
4. The control module shall be suitable for pilot duty applications and rated for a minimum of 0.6 amps at 30 VDC.

J. Addressable Relay Module

1. Addressable Relay Modules shall be available for HVAC control and other building functions. The relay shall be form C and rated for a minimum of 2.0 Amps resistive or 1.0 Amps inductive. The relay coil shall be magnetically latched to reduce wiring connection requirements, and to insure that 100% of all auxiliary relay or NACs may be energized at the same time on the same pair of wires.

K. Isolator Module

1. Isolator modules shall be provided to automatically isolate wire-to-wire short circuits on an SLC Class A or Class B branch. The isolator module shall limit the number of modules or detectors that may be rendered inoperative by a short circuit fault on the SLC loop segment or branch. (Module base to be added) Isolator devices shall be provided for each 25 detectors. Isolator detector bases may be used in lieu of isolator modules.
2. If a wire-to-wire short occurs, the isolator module shall automatically open-circuit (disconnect) the SLC. When the short circuit condition is corrected, the isolator module shall automatically reconnect the isolated section.
3. The isolator module shall not require address-setting, and its operations shall be totally automatic. It shall not be necessary to replace or reset an isolator module after its normal operation.
4. The isolator module shall provide a single LED that shall flash to indicate that the isolator is operational and shall illuminate steadily to indicate that a short circuit condition has been detected and isolated.

L. Smoke Control Annunciator

1. On/Auto/Off switches and status indicators (LEDS) shall be provided for monitoring and manual control of each fan, damper, HVAC control unit, stairwell pressurization fan, and smoke exhaust fan. To ensure compliance the units supplied shall meet the following UL categories: UUKL, PAZX, UDTZ, QVAX as well as the requirements of NFPA 90A, HVAC, and NFPA 92A & 92B, Smoke Control. The control System shall be field programmable for either 90A operation or 92A/B operation to allow for future use and system expansion.
    a. The OFF LED shall be Yellow, the ON LED shall be green, the Trouble/Fault LED shall be Amber/Orange for each switch. The Trouble/Fault indicator shall indicate a trouble in the control and/or monitor points associated with that switch. In addition, each group of eight switches shall have two LEDS and one momentary switch which allow the following functions: An Amber LED to indicate an OFF-NORMAL switch

position, in the ON or OFF position; A Green LED to indicate ALL AUTO switch position; A Local Acknowledge/Lamp Test momentary switch.

2. Each switch shall have the capability to monitor and control two addressable inputs and two addressable outputs. In all modes, the ON and OFF indicators shall continuously follow the device status not the switch position. Positive feedback shall be employed to verify correct operation of the device being controlled. Systems that indicate on/off/auto by physical switch position only are not acceptable.

3. All HVAC switches (i.e., limit switches, vane switches, etc.) shall be provided and installed by the HVAC contractor.

4. It shall be possible to meet the requirements mentioned above utilizing wall mounted custom graphic.

2.4 BATTERIES AND EXTERNAL CHARGER

A. Battery

1. Shall be 12 volt, Gell-Cell type.

2. Battery shall have sufficient capacity to power the fire alarm system for not less than twenty-four hours plus 5 minutes of alarm upon a normal AC power failure.

3. The batteries are to be completely maintenance free. No liquids are required. Fluid level checks refilling, spills and leakage shall not be required.

2.5 FIRE ALARM CONTROL PANEL

A. The main FIRE ALARM CONTROL PANEL Central Console shall be a NOTIFIER Model NFS2-3030 and shall contain a microprocessor based Central Processing Unit (CPU). The CPU shall communicate with and control the following types of equipment used to make up the system: intelligent addressable smoke and thermal (heat) detectors, addressable modules, control circuits, and notification appliance circuits, local and remote operator terminals, printers, annunciators, and other system controlled devices.

B. In conjunction with intelligent Loop Control Modules and Loop Expander Modules, the main FIRE ALARM CONTROL PANEL shall perform the following functions:

1. Supervise and monitor all intelligent addressable detectors and monitor modules connected to the system for normal, trouble and alarm conditions.

2. Supervise all initiating signaling and notification circuits throughout the facility by way of connection to addressable monitor and control modules.

3. Detect the activation of any initiating device and the location of the alarm condition. Operate all notification appliances and auxiliary devices as programmed. In the event of CPU failure, all SLC loop modules shall fallback to degrade mode. Such degrade mode shall treat the corresponding SLC loop control modules and associated detection devices as conventional two-wire operation. Any activation of a detector in this mode shall automatically activate associated Notification Appliance Circuits.

4. Visually and audibly annunciate any trouble, supervisory, security or alarm condition on operator's terminals, panel display, and annunciators.

C. When a fire alarm condition is detected and reported by one of the system initiating devices or appliances, the following functions shall immediately occur:

1. The system alarm LED shall flash.

2. A local piezo-electric audible device in the control panel shall sound a distinctive signal.

3. The 640-character backlit LCD display shall indicate all information associated with the fire alarm condition, including the type of alarm point and its location within the protected premises.
4. Printing and history storage equipment shall log and print the event information along with a time and date stamp.
5. All system outputs assigned via preprogrammed equations for a particular point in alarm shall be executed, and the associated system outputs (alarm notification appliances and/or relays) shall be activated.

D. When a trouble condition is detected and reported by one of the system initiating devices or appliances, the following functions shall immediately occur:

1. The system trouble LED shall flash.
2. A local piezo-electric audible device in the control panel shall sound a distinctive signal.
3. The 640-character backlit LCD display shall indicate all information associated with the trouble condition, including the type of trouble point and its location within the protected premises.
4. Printing and history storage equipment shall log and print the event information along with a time and date stamp.
5. All system outputs assigned via preprogrammed equations for a particular point in trouble shall be executed, and the associated system outputs (trouble notification appliances and/or relays) shall be activated.

E. When a supervisory condition is detected and reported by one of the system initiating devices or appliances, the following functions shall immediately occur:

1. The system trouble LED shall flash.
2. A local piezo-electric audible device in the control panel shall sound a distinctive signal.
3. The 640-character backlit LCD display shall indicate all information associated with the supervisory condition, including the type of trouble point and its location within the protected premises.
4. Printing and history storage equipment shall log and print the event information along with a time and date stamp.
5. All system outputs assigned via preprogrammed equations for a particular point in trouble shall be executed, and the associated system outputs (notification appliances and/or relays) shall be activated.

F. When a security alarm condition is detected and reported by one of the system initiating devices or appliances, the following functions shall immediately occur:

1. The system security LED shall flash.
2. A local piezo-electric audible device in the control panel shall sound a distinctive signal.
3. The 640-character backlit LCD display shall indicate all information associated with the fire alarm condition, including the type of alarm point and its location within the protected premises.
4. Printing and history storage equipment shall log and print the event information along with a time and date stamp.
5. All system outputs assigned via preprogrammed equations for a particular point in alarm shall be executed, and the associated system outputs (alarm notification appliances and/or relays) shall be activated.

G. When a pre-alarm condition is detected and reported by one of the system initiating devices or appliances, the following functions shall immediately occur:

1. The system pre-alarm LED shall flash.
2. A local piezo-electric audible device in the control panel shall sound a distinctive signal.
3. The 640-character backlit LCD display shall indicate all information associated with the fire alarm condition, including the type of alarm point and its location within the protected premises.
4. Printing and history storage equipment shall log and print the event information along with a time and date stamp.
5. All system outputs assigned via preprogrammed equations for a particular point in alarm shall be executed, and the associated system outputs (alarm notification appliances and/or relays) shall be activated.

2.6 ENCLOSURES

A. The control panel shall be housed in a UL-listed cabinet suitable for surface or semi-flush mounting. The cabinet and front shall be corrosion protected, given a rust-resistant prime coat, and manufacturer's standard finish.

B. The back box and door shall be constructed of 0.060 steel with provisions for electrical conduit connections into the sides and top.

C. The door shall provide a key lock and include a transparent opening for viewing all indicators. For convenience, the door shall have the ability to be hinged on either the right or left-hand side.

D. The control unit shall be modular in structure for ease of installation, maintenance, and future expansion.

2.7 POWER SUPPLY

A. The Addressable Main Power Supply shall operate on 120/240 VAC, 50/60 Hz, and shall provide all necessary power for the FIRE ALARM CONTROL PANEL.

B. The Addressable Main Power Supply shall provide the required power to the CPU using a switching 24 VDC regulator and shall incorporate a battery charger for 24 hours of standby power using dual-rate charging techniques for fast battery recharge.

C. The Addressable Main Power Supply shall provide a battery charger for 24 hours of standby using dual-rate charging techniques for fast battery recharge. The supply shall be capable of charging batteries ranging in capacity from 25-200 amp-hours within a 48-hour period.

D. The Addressable Main Power Supply shall provide a very low frequency sweep earth detect circuit, capable of detecting earth faults.

E. The Addressable Main Power Supply shall be power limited per UL864 requirements.

2.8 SPARE PARTS

A. Provide and turn over to the University the following equipment. Provide receipt.

1. Two (2) of each type of automatic initiating device (smoke detector, pull station etc.) used including smoke base.

2. One of each type of annunciating device (strobe, chime or other device).

PART 3 - PRODUCTS

3.1 GENERAL

A. The fire alarm system shall conform to Article 760 of the California Electrical Code.

B. Installation of the fire alarm system shall not be started until detailed drawings and specifications, including current State Fire Marshal listing sheets for each component of the fire alarm system, have been approved by the State Fire Marshal, the University Fire Department and the University Plant Operations and Maintenance department.

3.2 PREPARATION

A. Review fire alarm print, device locations.

B. A set of approved fire alarm shop drawings stamped by a University engineer of record shall be on the job site and used for installation. Any deviation from approved shop drawings, including substitution of devices, shall be approved by the State Fire Marshal and the Owner.

C. Coordinate with Owner to determine campus wide non-overlapping fire alarm network node numbers.

D. Coordinate with Owner to determine fire alarm loop expansion availability.

E. Coordinate with Owner to determine software Zone labeling.

F. Provide preliminary design drawings indicating zone labels and intended labeling to UCDMC.

G. Validate firewall physical locations match design documentation.

H. Coordinating with construction management for implementation.

I. Provide for access and materials delivery.

J. Verify intra /Inter building compatibility.

K. Verify that all old equipment is replaced with new in all areas remodeled.

L. Maintain fire alarm presence during construction.

M. Coordinate with Owner for fire alarm shutdowns.

N. Coordinate with construction management for system initiation and start up.

3.3 INSTALLATION

A. Contractor shall, under this contract, obtain services of a factory trained representative of system manufacturer to supervise installation and its progress, supervise final connections to equipment.

B. Any discrepancies between the drawings and the code or recognized standards shall be brought to the attention of the Owner via the RFI process.

C. A set of approved fire alarm shop drawings stamped by an engineer of record shall be on the job site and used for installation. Any deviation from approved shop drawings, including substitution of devices, shall be approved by the State Fire Marshal and the Owner.

D. Conduit shall be ¾" (19.1 mm) minimum.

E. Install all wiring in accord with local and national codes and NFPA 72.

F. Color code for wiring devices shall be the following:

1. Wiring shall be in accordance with local, state and national codes (e.g., NEC Article 760) and as recommended by the manufacturer of the fire alarm system. Number and size of conductors shall be as recommended by the fire alarm system manufacturer, but not less than 18 AWG (1.02 mm) for initiating device circuits and signaling line circuits, and 14 AWG (1.63 mm) for notification appliance circuits.
2. Addressable SLC loop - red & black twisted pair (2) Two #18-gauge West Penn 980 or equal.
3. Annunciator data loop - red & black twisted shielded pair (2) Two #18-gauge West Penn 975 or equal.
4. Visual circuit - red & black (2) Two #12-gauge THHN/THWN stranded.
5. Annunciator power - purple and black (2) Two #14-gauge THHN/THWN stranded.
6. Patient room light power - blue & black (2) Two #14-gauge THHN/THWN stranded.
7. Door holder power - orange and black (2) Two #14-gauge THHN/THWN stranded.
8. Fire fighters phone - red & black shielded (2) Two #18 West Penn 975 or equal.
9. Speaker circuit - red & black (2) Two #16 West Penn 990 or equal.
10. Remote test station - black, red & white 2#16 THHN/THWN stranded.

G. Provide all necessary devices for connection to Notifier network and Surgard alarm receiver(s) for transmission of trouble and alarm signals by individual zones as designated by Owner to UCD Fire Dispatch and UCDMC monitoring points.

H. All field and Fire Alarm Control Panel wiring shall be terminated within terminal cabinets or on field devices. All components shall be made on terminals. Circuit completions shall be accomplished with cross-connect jumpers.

I. Make all fire alarm wiring continuous from terminals to terminal or from terminal to device. All alarm initiation devices are to be wired without parallel branches (T tapping) and are to start and return at the main terminal cabinet.

J. Spare conductors are to be provided on a 10% (minimum two conductor) schedule per riser, plus a minimum of six (6) spare conductors.

K. Circuit splices not permitted:

1. Wiring joints, only when required at devices shall utilize terminal strips.
2. Solid core copper wire is required for all cabling from 26 to 18-gauge wire in the fire alarm system.
3. Stranded core cabling shall be used for all wire that requires a gauge of 16 and under.

4. The use of wire nuts, crimp connector and similar shall not be allowed.
5. Stranded Wire shall be terminated under screw heads with a fork type terminal installed in the wire. Detectors shall be installed and located in accordance with the manufacturer's written instructions and the UL listing requirements.
6. Install all wiring in rigid, intermediate or electrical metallic conduit, minimum conduit size is ¾". All conduit except that which is exposed in public areas shall be painted red in color at least every 6 feet for the entire circumference of the conduit. This red marking shall be at least 6" long. All concealed junction boxes shall also be painted red.

L. Run circuits for AC separate from circuits using DC. They shall not be permitted to share the same conduit. All initiating device and signaling line circuits shall be run above-grade. Exposed flexible conduit, as used for attachment to water-flow and valve tamper switches or similar applications, shall be liquid tight and shall be the minimum length required for neat and secure installation. Flexible conduit shall not be buried nor located closer than 12" to grade.

M. All equipment and devices installed in exterior and wet locations shall be installed in an approved gasketed NEMA 3R enclosure. All conduit, fittings and hardware shall be corrosion resistant rigid type.

N. All fire alarm monitoring modules or dual modules such as form C relay module for dampers, tamper modules, water flow modules and nswitch modules shall be mounted in an accessible location below ceiling in workspace. Coordinate with the Owner for clarification.

O. Provide a ¾" conduit with a pull string from FIRE ALARM CONTROL PANEL to the IDF.

P. All wiring and telephone cabling shall be in metal conduit, with any shielded wire connected to an earth ground at the control panel.

Q. Where FIRE ALARM CONTROL PANEL Panels and termination cabinets are mounted flush to finished wall or in areas where the finished ceiling is solid, install two (2) empty ¾" conduits from the FIRE ALARM CONTROL PANEL to the attic area above in an accessible area. Terminate each of them in a separate 4 11/16" box in an accessible area.

R. Cover all smoke detector devices during construction, until environment allows for system reveal.

S. The fire alarm designer shall be responsible to determine the quality and location of audible devices that will provide the required bb noise levels required by the authority having jurisdiction.

T. All metallic conduit, cabinets, junction boxes, and exposed non-current-carrying metal parts shall be permanently grounded. A separate No. 10 AWG conductor shall connect a grounding bus bar located in each main terminal cabinet to building ground. The bus bar shall be provided with a minimum of five tubular, pressure type screw terminals sized for No. 18 AWG through No. 10 AWG wire. The ground wire for the FIRE ALARM CONTROL PANEL and the main terminal cabinet shall be grounded via the bus bar.

U. The control panel shall be capable of expansion via up to 10 SLC modules. Each module shall support a maximum of 318 analog/addressable devices for a maximum system capacity of 3180 points. The system shall be capable of 3072 annunciation points per system regardless of the number of addressable devices.

V. The Fire Alarm Control Panel shall include a full featured operator interface control and annunciation panel that shall include a backlit 640-character liquid crystal display, individual, color coded system status LEDs, and a QWERTY style alphanumeric keypad for the field programming

and control of the fire alarm system. Said LCD shall also support graphic bit maps capable of displaying the company name and logo of either the owner or installing company.

W. All programming or editing of the existing program in the system shall be achieved without special equipment and without interrupting the alarm monitoring functions of the fire alarm control panel.

3.4 FUNCTIONALITY

A. The FIRE ALARM CONTROL PANEL shall be able to provide the following software and hardware features:

1. Pre-signal and Positive Alarm Sequence: The system shall provide means to cause alarm signals to only sound in specific areas with a delay of the alarm from 60 to up to 180 seconds after start of alarm processing. In addition, a Positive Alarm Sequence selection shall be available that allows a 15-second time period for acknowledging an alarm signal from a fire detection/initiating device. If the alarm is not acknowledged within 15 seconds, all local and remote outputs shall automatically activate immediately.
2. Smoke Detector Pre-alarm Indication at Control Panel: To obtain early warning of incipient or potential fire conditions, the system shall support a programmable option to determine system response to real-time detector sensing values above the programmed setting. Two levels of Pre-alarm indication shall be available at the control panel: alert and action.
3. Alert: It shall be possible to set individual smoke detectors for pre-programmed pre-alarm thresholds. If the individual threshold is reached, the pre-alarm condition shall be activated.
4. Action: If programmed for Action and the detector reaches a level exceeding the pre-programmed level, the control panel shall indicate an action condition. Sounder bases installed with either heat or smoke detectors shall automatically activate on action Pre-Alarm level, with general evacuation on Alarm level.
5. The system shall support a detector response time to meet world annunciation requirements of less than 3 seconds.
6. Device Blink Control: Means shall be provided to turn off detector/module LED strobes for special areas.
7. NFPA 72 Smoke Detector Sensitivity Test: The system shall provide an automatic smoke detector test function that meet the requirements of NFPA 72.
8. Programmable Trouble Reminder: The system shall provide means to automatically initiate a reminder that troubles exist in the system. The reminder will appear on the system display and (if enabled) will sound a piezo alarm.
9. On-line or Off-line programming: The system shall provide means to allow panel programming either through an off-line software utility program away from the panel or while connected and on-line. The system shall also support upload and download of programmed database and panel executive system program to a Personal Computer/laptop.
10. History Events: The panel shall maintain a history file of the last 4000 events, each with a time and date stamp. History events shall include all alarms, troubles, operator actions, and programming entries. The control panels shall also maintain a 1000 event Alarm History buffer, which consists of the 1000 most recent alarm events from the 4000 event history file.
11. Smoke Control Modes: The system shall provide means to perform FSCS mode Smoke Control to meet NFPA-92A and 90B and HVAC mode to meet NFPA 90A.
12. The system shall provide means for all SLC devices on any SLC loop to be auto programmed into the system by specific address. The system shall recognize specific device type ID’s and associate that ID with the corresponding address of the device.

13. Drill: The system shall support means to activate all silenceable fire output circuits in the event of a practice evacuation or “drill”. If enabled for local control, the front panel switch shall be held for a minimum of 2 seconds prior to activating the drill function.
14. Passwords and Users: The system shall support two password levels, master and user. Up to 9 user passwords shall be available, each of which may be assigned access to the programming change menus, the alter status menus, or both. Only the master password shall allow access to password change screens.
15. Two Wire Detection: The system shall support standard two wire detection devices specifically all models of System Sensor devices, Fenwal PDS-7125/7126 and CPD-7021, Hochiki model SLK-24F/24FH, Edwards 6250B/6270B and 6264B and Simplex models 2098-9201/9202 and 9576.
16. Block Acknowledge: The system shall support a block Acknowledge for Trouble Conditions.
17. Sensitivity Adjust: The system shall provide Automatic Detector Sensitivity Adjust based on Occupancy schedules including a Holiday list of up to 15 days.
18. Environmental Drift Control: The system shall provide means for setting Environmental Drift Compensation by device. When a detector accumulates dust in the chamber and reaches an unacceptable level but yet still below the allowed limit, the control panel shall indicate a maintenance alert warning. When the detector accumulates dust in the chamber above the allowed limit, the control panel shall indicate a maintenance urgent warning.
19. Custom Action Messages: The system shall provide means to enter up to 100 custom action messages of up to 160 characters each. It shall be possible to assign any of the 100 messages to any point.
20. Print Functions: The system shall provide means to obtain a variety of reports listing all event, alarm, trouble, supervisory, or security history. Additional reports shall be available for point activation for the last Walk Test performed, detector maintenance report containing the detector maintenance status of each installed addressable detector, all network parameters, all panel settings including broad cast time, event ordering, and block acknowledge, panel timer values for Auto Silence, Silence Inhibit, AC Fail Delay time and if enabled, Proprietary Reminder, and Remote Reminder timers, supervision settings for power supply and printers, all programmed logic equations, all custom action messages, all non-fire and output activations (if pre-programmed for logging) all active points filtered by alarms only, troubles only, supervisory alarms, prealarms, disabled points and activated points, all installed points filtered by SLC points, logic zones, annunciators, releasing zones, special zones, and trouble zones.
21. Local Mode: If communication is lost to the central processor the system shall provide added survivability through the intelligent loop control modules. Inputs from devices connected to the SLC and loop control modules shall activate outputs on the same loop when the inputs and outputs have been set with point programming to participate in local mode or when the type codes are of the same type: that is, an input with a fire alarm type code shall activate an output with a fire alarm type code.
22. Resound based on type for security or supervisory: The system shall indicate a Security alarm when a monitor module point programmed with a security Type Code activates. If silenced alarms exist, a Security alarm will Resound the panel sounder. The system shall indicate a Supervisory alarm when a monitor module point programmed with a supervisory Type Code activates. If there are silenced alarms, a Supervisory alarm will Resound the panel sounder.
23. Read status preview - enabled and disabled points: Prior to re-enabling points, the system shall inform the user that a disabled device is in the alarm state. This shall provide notice that the device must be reset before the device is enabled thereby avoiding activation of the notification circuits.

24. Custom Graphics: When fitted with an LCD display, the panel shall permit uploading of a custom bit-mapped graphic to the display screen.

25. Multi-Detector and Cooperating Detectors: The system shall provide means to link one detector to up to two detectors at other addresses on the same loop in cooperative multi-detector sensing. There shall be no requirement for sequential addresses on the detectors and the alarm event shall be a result or product of all cooperating detectors chamber readings.

26. Tracking/Latching Duct (ion and photo): The system shall support both tracking and latching duct detectors either ion or photo types.

27. ACTIVE EVENT: The system shall provide a Type ID called FIRE CONTROL for purposes of air-handling shutdown, which shall be intended to override normal operating automatic functions. Activation of a FIRE CONTROL point shall cause the control panel to (1) initiate the monitor module Control-by-Event, (2) send a message to the panel display, history buffer, installed printer and annunciators, (3) shall not light an indicator at the control panel, (4) Shall display ACTIVE on the LCD as well a display a FIRE CONTROL Type Code and other information specific to the device.

28. NON-FIRE Alarm Module Reporting: A point with a type ID of NON-FIRE shall be available for use for energy management or other non-fire situations. NON-FIRE point operation shall not affect control panel operation nor shall it display a message at the panel LDC. Activation of a NON-FIRE point shall activate control by event logic but shall not cause any indication on the control panel.

29. Security Monitor Points: The system shall provide means to monitor any point as a type security.

30. One-Man Walk Test: The system shall provide both a basic and advanced walk test for testing the entire fire alarm system. The basic walk test shall allow a single operator to run audible tests on the panel. All logic equation automation shall be suspended during the test and while annunciators can be enabled for the test, all shall default to the disabled state. During an advanced walk test, field-supplied output point programming will react to input stimuli such as CBE and logic equations. When points are activated in advanced test mode, each initiating event shall latch the input. The advanced test shall be audible and shall be used for pull station verification, magnet activated tests on input devices, input and output device and wiring operation/verification.

31. Control by Event Functions: CBE software functions shall provide means to program a variety of output responses based on various initiating events. The control panel shall operate CBE through lists of zones. A zone shall become listed when it is added to a point's zone map through point programming. Each input point such as detector, monitor module or panel circuit module shall support listing of up to 10 zones into its programmed zone map.

32. Permitted zone types shall be general zone, releasing zone and special zone. Each output point (control module, panel circuit module) can support a list of up to 10 zones including general zone, logic zone, releasing zone and trouble zone. It shall be possible for output points to be assigned to list general alarm. Non-Alarm or Supervisory points shall not activate the general alarm zone.

33. 1000 General Zones: The system shall support up to 1000 general purpose software zones for linking inputs to outputs. When an input device activates, any general zone programmed into that device's zone map will be active and any output device that has an active general zone in its map will be active. It shall also be possible to use general zone as arguments in logic equations.

34. 1000 Logic Equations: The system shall support up to 1000 logic equations for AND, OR, NOT, ONLY1, ANYX, XZONE or RANGE operators that allow conditional I/O linking. When any logic equation becomes true, all output points mapped to the logic zone shall activate.

35. 10 trouble equations per device: The system shall provide support for up to 10 trouble equations for each device, which shall permit programming parameters to be altered, based on specific fault conditions. If the trouble equation becomes true, all output points mapped to the trouble zone shall activate.

36. Control-By-Time: A time-based logic function shall be available to delay an action for a specific period of time based upon a logic input with tracking feature. A latched version shall also be available. Another version of this shall permit activation on specific days of the week or year with ability to set and restore based on a 24-hour time schedule on any day of the week or year.

37. Multiple agent releasing zones: The system shall support up to 10 releasing zones to protect against 10 independent hazards. Releasing zones shall provide up to three cross-zone and four abort options to satisfy any local jurisdiction requirements.

38. Alarm Verification, by device, with timer and tally: The system shall provide a user-defined global software timer function that can be set for a specific detector or indicating panel module input. The timer function shall delay an alarm signal for a user-specified time period and the control panel shall ignore the alarm verification timer if another alarm is detected during the verification period. It shall also be possible to set a maximum verification count between 0 and 20 with the “0” setting producing no alarm verification. When the counter exceeds the threshold value entered, a trouble shall be generated to the panel.

3.5 CENTRAL PROCESSING UNIT

A. The Central Processing Unit shall communicate with, monitor, and control all other modules within the control panel. Removal, disconnection or failure of any control panel module shall be detected and reported to the system display by the Central Processing Unit.

B. The Central Processing Unit shall contain and execute all control-by-event (including Boolean functions including but not limited to AND, OR, NOT, ANYx, and CROSSZONE) programs for specific action to be taken if an alarm condition is detected by the system. Such control-by-event programs shall be held in non-volatile programmable memory and shall not be lost with system primary and secondary power failure.

C. The Central Processing Unit shall also provide a real-time clock for time annotation, to the second, of all system events. The time-of-day and date shall not be lost if system primary and secondary power supplies fail.

D. The CPU shall be capable of being programmed on site without requiring the use of any external programming equipment. Systems that require the use of external programmers or change of EPROMs are not acceptable.

E. Consistent with UL864 standards, the CPU and associated equipment are to be protected so that voltage surges or line transients will not affect them.

F. Each peripheral device connected to the CPU shall be continuously scanned for proper operation. Data transmissions between the CPU and peripheral devices shall be reliable and error free. The transmission scheme used shall employ dual transmission or other equivalent error checking techniques.

G. The CPU shall provide an EIA-232 interface between the fire alarm control panel and the UL Listed Electronic Data Processing (EDP) peripherals.

H. The CPU shall provide two EIA-485 ports for the serial connection to annunciation and control subsystem components.

I. The EIA-232 serial output circuit shall be optically isolated to assure protection from earth ground.

J. The CPU shall provide one high-speed serial connection for support of network communication modules.

K. The CPU shall provide double pole relays for FIRE ALARM, SYSTEM TROUBLE, SUPERVISORY, and SECURITY. The SUPERVISORY and SECURITY relays shall provide selection for additional FIRE ALARM contacts.

3.6 DISPLAY

A. The system display shall provide all the controls and indicators used by the system operator and may also be used to program all system operational parameters.

B. The display assembly shall contain, and display as required, custom alphanumeric labels for all intelligent detectors, addressable modules, and software zones.

C. The system display shall provide a 640-character backlit alphanumeric Liquid Crystal Display (LCD). It shall also provide ten Light-Emitting-Diodes (LEDs), that indicate the status of the following system parameters: AC POWER, FIRE ALARM, PREALARM, SECURITY, SUPERVISORY, SYSTEM TROUBLE, OTHER EVENT, SIGNALS SILENCED, POINT DISABLED, and CPU FAILURE.

D. The system display shall provide a QWERTY style keypad with control capability to command all system functions, entry of any alphabetic or numeric information, and field programming. Two different password levels with up to ten (one Master and nine User) passwords shall be accessible through the display interface assembly to prevent unauthorized system control or programming.

E. The system display shall include the following operator control switches: ACKNOWLEDGE, SIGNAL SILENCE, RESET, DRILL, and LAMP TEST. Additionally, the display interface shall allow scrolling of events by event type including, FIRE ALARM, SECURITY, SUPERVISORY, TROUBLE, and OTHER EVENTS. A PRINT SCREEN button shall be provided for printing the event currently displayed on the 640-character LCD.

3.7 LOOP (SIGNALING LINE CIRCUIT) CONTROL MODULE

A. The Loop Control Module shall monitor and control a minimum of 318 intelligent addressable devices. This includes 159 intelligent detectors (Ionization, Photoelectric, or Thermal) and 159 monitor or control modules.

B. The Loop Control Module shall contain its own microprocessor and shall be capable of operating in a local/degrade mode (any addressable device input shall be capable of activating any or all addressable device outputs) in the unlikely event of a failure in the main CPU.

C. The Loop Control Module shall provide power and communicate with all intelligent addressable detectors and modules on a single pair of wires. This SLC Loop shall be capable of operating as a NFPA Style 6 (Class A) circuit.

D. The SLC interface board shall be able to drive an NFPA Style 6 twisted unshielded circuit up to 12,500 feet in length. The SLC Interface shall also be capable of driving an NFPA Style 6, no twist, no shield circuit for limited distances determined by the manufacturer. In addition, SLC wiring shall meet the listing requirements for it to exit the building or structure. No "T"-tapping will be allowed in either case.

E. The SLC interface board shall receive analog or digital information from all intelligent detectors and shall process this information to determine whether normal, alarm, or trouble conditions exist for that particular device. Each SLC Loop shall be isolated and equipped to annunciate an Earth Fault condition. The SLC interface board software shall include software to automatically maintain the detector's desired sensitivity level by adjusting for the effects of environmental factors, including the accumulation of dust in each detector. The analog information may also be used for automatic detector testing and the automatic determination of detector maintenance requirements.

1. The FIRE ALARM CONTROL PANEL shall supervise all circuits to intelligent devices, transponders, annunciators and peripheral equipment and annunciate loss of communication with these devices. The CPU shall continuously scan above devices for proper system operation and upon loss of response from a device shall sound an audible trouble, indicate which device or devices are not responding and print the information in the history buffer and on the printer.
2. Transponders that lose communication with the CPU shall sound an audible trouble and light an LED indicating loss of communications.
3. Sprinkler system valves, standpipe control valves, PIV, and main gate valves shall be supervised for off-normal position.
4. All speaker and emergency phone circuits shall be supervised for opens and shorts. Each transponder speaker and emergency phone circuit shall have an individual ON/OFF indication (green LED).

3.8 FIELD WIRING TERMINAL BLOCKS

A. All wiring terminal blocks shall be the plug-in/removable type and shall be capable of terminating up to 12 AWG wire. Terminal blocks that are permanently fixed to the PC board are not acceptable.

3.9 CONTROLS WITH ASSOCIATED LED INDICATORS

A. Speaker Switches/Indicators

1. The speaker circuit control switches/indicators shall include visual indication of active and trouble status for each speaker circuit in the system.
2. The speaker circuit control panel shall include switches to manually activate or deactivate each speaker circuit in the system.

B. Emergency Two-Way Telephone Control Switches/Indicators

1. The emergency telephone circuit control panel shall include visual indication of active and trouble status for each telephone circuit in the system.
2. The telephone circuit control panel shall include switches to manually activate or deactivate each telephone circuit in the system.

3.10 REMOTE TRANSMISSIONS

A. Provide local energy or polarity reversal or trip circuits as required.

B. The system shall be capable of operating a polarity reversal or local energy or fire alarm transmitter for automatically transmitting fire information to the fire department.

C. Provide capability and equipment for transmission of zone alarm and trouble signals to remote operator's terminals, system printers and annunciators.

D. Transmitters shall be compatible with the systems and equipment they are connected to such as timing, operation and other required features.

3.11 FIELD PROGRAMMING

A. The system shall be programmable, configurable and expandable in the field without the need for special tools, laptop computers, or other electronic interface equipment. There shall be no firmware changes required to field modify the system time, point information, equations, or annunciator programming/information.

B. It shall be possible to program through the standard FIRE ALARM CONTROL PANEL keyboard all system functions.

C. All field defined programs shall be stored in non-volatile memory.

D. Two levels of password protection shall be provided in addition to a key-lock cabinet. One level shall be used for status level changes such as point/zone disable or manual on/off commands (Building Manager). A second (higher-level) shall be used for actual change of the life safety program (installer). These passwords shall be five (5) digits at a minimum. Upon entry of an invalid password for the third time within a one-minute time period an encrypted number shall be displayed. This number can be used as a reference for determining a forgotten password.

E. The system programming shall be "backed" up via an upload/download program and stored on compatible removable media. A system back-up disk shall be completed and given in duplicate to the building owner and/or operator upon completion of the final inspection. The program that performs this function shall be "non-proprietary", in that, it shall be possible to forward it to the building owner/operator upon his or her request.

F. The installer's field programming and hardware shall be functionally tested on a computer against known parameters/norms which are established by the FIRE ALARM CONTROL PANEL manufacturer. A software program shall test Input-to-Output correlations, device Type ID associations, point associations, time equations, etc. This test shall be performed on an IBM-compatible PC with a verification software package. A report shall be generated of the test results and two copies turned in to the engineer(s) on record.

3.12 SPECIFIC SYSTEM OPERATIONS

A. Smoke Detector Sensitivity Adjust: Means shall be provided for adjusting the sensitivity of any or all analog intelligent smoke detectors in the system from the system keypad or from the keyboard of the video terminal. Sensitivity range shall be within the allowed UL window.

B. Alarm Verification: Each of the Intelligent Addressable Smoke Detectors in the system may be independently selected and enabled to be an alarm verified detector. The alarm verification function shall be programmable from 5 to 50 seconds and each detector shall be able to be selected for verification during the field programming of the system or any time after system turn-on. Alarm verification shall not require any additional hardware to be added to the control panel. The FIRE ALARM CONTROL PANEL shall keep a count of the number of times that each detector has entered the verification cycle. These counters may be displayed and reset by the proper operator commands.

3.13 EXECUTION

A. General

1. The system shall include the ability (programmable) to indicate a "pre-alarm" condition. This will be used to alert maintenance personal when a detector is at 80% of its alarm threshold in a 60 second period.

B. Programming

1. Provide all initial system programming, device types, zones, sensitivity etc.
2. Provide University with a set of drawings, labeled software zones, indicating zones and zone boundaries for modification and approval prior to programming zones.
3. Coordinate system programming with University.
4. Obtain a list of University's room numbers. These room numbers shall be provided by University's Representative prior to beneficial occupancy of the building. Correct all final programming and as-built drawings submitted to University for O&M manuals to reflect correct room numbers.

C. Fire Alarm Execution

1. Elevation drawing that shows all fire alarm equipment enclosures and raceways on the wall where they will be installed. The highest operational portion of the fire alarm panels must not be mounted higher than 6 feet above finished floor. System status displays should be at 5”6” AFF.
2. No equipment may be located under a cabinet containing batteries.
3. Where possible, all wiring shall be installed in conduit or raceway. Conduit fill shall not exceed 40% of interior cross-sectional area where three or more cables are contained within a single conduit.
4. Cable must be separated from any open conductors of Power, or Class 1 circuits, and shall not be placed in any conduit, junction box or raceway containing these conductors, as per NEC Article 760.
5. Wiring for 24-volt control, alarm notification, emergency communication and similar power-limited auxiliary functions may be run in the same conduit as initiating and signaling line circuits. All circuits shall be provided with transient suppression devices and the system shall be designed to permit simultaneous operation of all circuits without interference or loss of signals.
6. Conduit shall not enter the fire alarm control panel, or any other remotely mounted control panel equipment or backboxes, except where conduit entry is specified by the FIRE ALARM CONTROL PANEL manufacturer.

D. Wire

1. All wire and cable shall be listed and/or approved by a recognized testing agency for use with a protective signaling system.
2. Wire and cable not installed in conduit shall have a fire resistance rating suitable for the installation as indicated in NFPA 70 (e.g., FPLR).
3. The system shall permit the use of IDC and NAC wiring in the same conduit with the multiplex communication loop.
4. All field wiring circuits shall be completely supervised. In the event of a primary power failure, disconnected standby battery, removal of any internal modules, or any open circuits in the field wiring; a trouble signal will be activated until the system and its associated field wiring are restored to normal condition.

5. All analog voice speaker and analog telephone circuits shall use twisted/shielded pair to eliminate cross talk.
6. Stranded wire only shall be used for all notification circuits.

E. Terminal Boxes, Junction Boxes and Cabinets
1. All boxes and cabinets shall be UL listed for their intended purpose.

F. Initiating circuits shall be arranged to serve like categories (manual, smoke, waterflow). Mixed category circuitry shall not be permitted except on signaling line circuits connected to intelligent reporting devices.

G. The fire alarm control panel shall be connected to a separate dedicated branch circuit, maximum 20 amperes. This circuit shall be labeled at the main power distribution panel as FIRE ALARM. Fire alarm control panel primary power wiring shall be 12 AWG. The control panel cabinet shall be grounded securely to either a cold-water pipe or grounding rod.

H. Locate detectors with alarm indicator light visible from floor.

3.14 EXAMINATION / ACCEPTANCE / TESTING

A. Thoroughly inspect and test installation with state fire marshal for acceptance of device installation to verify conformance with manufacturer and specification tolerances. System acceptance testing shall include, but not be limited to, the following.

B. Contractor shall, under this contract, obtain services of a factory trained representative of system manufacturer to, provide testing to assure that system is in proper operating condition, and is in compliance with all applicable regulations. The contractor shall provide 4 sets of as-built drawings for mark-up during testing. The contractor shall perform two separate tests after the system is completed. Each test shall successfully demonstrate all functions required in the contract. One test shall be completed in the presence of the University's Representative (UCDMC Fire Department) and a separate test shall be conducted for final acceptance by the State Fire Marshal/OSHPD in the presence of the University's Representative, (UCDMC Fire Department).

C. System Point Operations: Any addressable device in the system shall have the capability to be enabled or disabled through the system keypad or display terminal.
1. Validate Annunciator text messages and device addresses for each device shown.
2. Software zones.
3. Validate design for fire testing operation.
4. Validate separate software zone(s) disable(ing) for fire testing.
5. Validate System output points shall be capable of being turned on or off from the system keypad or the display terminal.
6. All Program Parameters.
7. Validate the "Sequence of Operation" and Fire Alarm Program system shall be provided on CD in Microsoft Word format.
8. Validate the system annunciates individually a trouble or alarm condition for each alarm initiation device in the building.
9. Validate that not more than 75% of loop capacity on any loop. No more than 119 devices on any loop.
10. Validate that no more than 7 loops in any multiplex panel. The remaining device and loop capacities shall be maintained as spare for future.

11. Validate that the System Status Reports can be generated and printed.
12. Validate System History Recording and Reporting: The fire alarm control panel shall contain a history buffer that will be capable of storing up to 4000 system events. Each of these events will be stored, with time and date stamp, until an operator requests that the contents be either displayed or printed. The contents of the history buffer may be manually reviewed; one event at a time, and the actual number of activations may also be displayed and or printed. History events shall include all alarms, troubles, operator actions, and programming entries.
13. Test using actual power outage that the history buffer is retained by providing system reports following event.
14. Validate the Automatic Detector Maintenance Alert: The fire alarm control panel shall continually interrogate each intelligent system detector and shall analyze the detector status.
15. Validate the that the intelligent detector in the system responds with a reading that is below or above normal limits, then the system will enter the trouble mode, and the particular Intelligent Detector will be annunciated on the system display and printed on the optional system printer. This feature shall in no way inhibit the receipt of alarm conditions in the system, nor shall it require any special hardware, special tools or computer expertise to perform.
16. All failures shall be corrected and re-tested at Contractor expense.

D. Point Read: The system shall be able to display the following point status diagnostic functions without the need for peripheral equipment. Each point shall be annunciated for the parameters listed:
   1. Device Status.
   2. Device Type.
   3. Custom Device Label.
   4. Software Zone Label.
   5. Device Zone Assignments.
   6. Analog Detector Sensitivity.

E. Provide and turn over to the University the following equipment. Obtain a receipt.
   1. Two (2) of each type of automatic initiating device used (smoke/heat detector) including base, manual pull station, addressable modules.
   2. One of each type of alarm annunciating device (strobe, strobe chime or other devices).

F. Provide minimum of 6 copies of the Operations and Maintenance Manual. The manual shall be labeled and neatly installed in a binder with tabs and sections as indicated in a Table of Contents. Large drawings and blueprints shall be neatly folded in. It shall include manufacturers data sheets, maintenance and operation information sheets, copies of all programming sheets with the final University's room numbers included, as built drawings showing the final University's room numbers, any other information operation or maintenance. Two (2) copies of complete as-built installation wiring documentation, internal fire alarm control panel schematics, all software zone information (i.e. general alarm ZL230, Z230 etc.) and maintenance manuals are to be submitted prior to final acceptance. Deliver one copy directly to Plant Operations and Maintenance, Auxiliary Services Communications Shop as soon as possible.

G. Using the fire alarm system as-built drawings and your own records of any other pertinent changes during construction, apply the information to produce a facility set of Record Drawings on CAD for the University document archives. The University will receive CAD drawings via

appropriate electronic transmission medium, and one set of full-size reproductions plotted on 4-mil thick wash-off polyester drafting film with matte finish. These drawings shall be clearly labeled “Fire Alarm System Record Drawings.” Computer CAD files shall be fully compatible with the University CAD system. The University will provide direction for CAD standards to be used for document deliverables. (Also see Division 1, General Requirements – Closeout Procedures and Closeout Submittals).

H. Test each individual circuit at panel with equipment connected for proper operation. Entire system shall test free from opens, grounds, and short circuits. Verify control circuit integrity: Field tests to verify component compliance with specifications, adjusting, calibrating, and setting circuit breaker, relays, timers, etc. Testing will include, but not be limited to, the following:

1. Before energizing the cables and wires, check for correct connections and test for short circuits, ground faults, continuity, and insulation.
2. Close each sprinkler system control valve and verify proper supervisory alarm at the FIRE ALARM CONTROL PANEL.
3. Verify activation of all flow switches.
4. Open initiating device circuits and verify that the trouble signal actuates.
5. Open and short signaling line circuits and verify that the trouble signal actuates.
6. Open and short indicating appliance circuits and verify that trouble signal actuates.
7. Ground all circuits and verify response of trouble signals.
8. Check presence and audibility of all alarm notification devices.
9. Check installation, supervision, and operation of all intelligent smoke detectors.
10. Verify all general alarm zones work effectively when bypassed.
11. Each of the alarm conditions that the system is required to detect should be introduced on the system. Verify the proper receipt and the proper processing of the signal at the FIRE ALARM CONTROL PANEL and the correct activation of the control points.
12. When the system is equipped with optional features, the manufacturer's manual should be consulted to determine the proper testing procedures. This is intended to address such items as verifying controls performed by individually addressed or grouped devices, sensitivity monitoring, verification functionality and similar.

I. Ground tests shall meet requirements of Part 3, Title 24, CEC.

J. After completion of testing and adjustment, operate the different systems and equipment under normal working conditions and show specified performance. If, in the opinion of the University's Representative, performance of equipment or systems is not in accordance with Specifications or submitted data, alter or replace equipment at no increase in Contract Price.

K. Do not allow or cause any work to be covered up or enclosed before it has been inspected and approved. Should any work be enclosed or covered up before it has been approved, uncover such work and after it has been inspected and approved, make all repairs necessary to restore work condition in which it was found at time of cutting, all at no increase in Contract Price.

L. Contractor shall demonstrate fire alarm system functionality during system testing.

M. Perform initial fire alarm bypassing, zone separation, dampers, audibles, and door holders etc. validating the functionality of the system.

N. Validate the "Sequence of Operation" and Fire Alarm Program shall be provided and a copy provided on CD in Microsoft Word and/or Access format.

END OF SECTION

RFI #3 Asbestos Sampling Results

- Results for previously surveyed materials in Davis Tower are listed below. All Davis Tower materials Entek has surveyed from 2017 to date have been None Detected for Asbestos and below 100PPM for Lead:

Building/Address	Date	Sample #	Material Description	Asbestos Content
UCDMC - Davis Tower 2315 Stockton Boulevard Sacramento, CA 95817	1/31/2022	ECG-22-6072-01A	Concrete Floor Under Rolled Carpet / Room 1617F, North Side of Room, Center	NONE DETECTED
UCDMC - Davis Tower 2315 Stockton Boulevard Sacramento, CA 95817	1/31/2022	ECG-22-6072-02A	Tan 6" Vinyl Base Cove with Tan Mastic / Room 1617F, North Side of Room, Center	NONE DETECTED
UCDMC - Davis Tower 2315 Stockton Boulevard Sacramento, CA 95817	1/31/2022	ECG-22-6072-03A	Grayish/Green Rolled Carpet with Green Glue and Gray Floor Filler / Room 1617F, East Wall, South of Door	NONE DETECTED
UCDMC - Davis Tower, 1st Floor 2315 Stockton Blvd Sacramento, CA 95817	11/4/2022	ECG-21-5794 - 01Pb	12" x 12" Grey Vinyl Floor Tile and Mastic / Room 1754	
UCDMC - Davis Tower, 1st Floor 2315 Stockton Blvd Sacramento, CA 95817	11/4/2022	ECG-21-5497-02Pb	12" x 12" Beige Vinyl Floor Tile and Mastic / Room 1754A	
UCDMC - Davis Tower, 1st Floor 2315 Stockton Blvd Sacramento, CA 95817	11/7/2022	ECG-21-5794-01Pb	18" x 18" Tan Vinyl Floor Tile Sheet Flooring and Mastic / Room 1752	
UCDMC - Davis Tower 2315 Stockton Boulevard Sacramento, CA 95817	11/2/2022	ECG-23-6560 - 01A	Blue/Gray Sprayed on Fireproofing on Metal Structural Member, Above Ceiling, Above Entryway into Rm 2701, Above Access Hatch	NONE DETECTED
UCDMC - Davis Tower 2315 Stockton Boulevard Sacramento, CA 95817	2/13/2023	ECG-23-6560-01B	Blue/Gray Sprayed on Fireproofing on Metal Structural Member, Above Ceiling, Above Entryway into Rm 2701, Above Access Hatch	NONE DETECTED
UCDMC - Davis Tower 2315 Stockton Boulevard Sacramento, CA 95817	2/13/2023	ECG-23-6560 - 01C	Blue/Gray Sprayed on Fireproofing on Metal Structural Member, Above Ceiling, Above Entryway into Rm 2701, Above Access Hatch	NONE DETECTED
UCDMC - Davis Tower 2315 Stockton Boulevard Sacramento, CA 95817	2/13/2023	ECG-23-6560 - 02A	Drywall and Joint Compound with Seam Tape, Above Ceiling, Above Entry into Rm 2701 Above Access Hatch	NONE DETECTED
UCDMC - Davis Tower 2315 Stockton Boulevard Sacramento, CA 95817	2/13/2023	ECG-23-6560 - 03A	Red Fire Caulking at Pipe Penetration, Above Ceiling, Above Entryway into Rm 2701, Above Access Hatch	NONE DETECTED
UCDMC - Davis Tower 2315 Stockton Boulevard Sacramento, CA 95817	2/13/2023	ECG-23-6560 - 04A	Gray HVAC Seam Tape, Above Ceiling on HVAC Duct Above Entryway into RM 2701, Above Access Hatch	NONE DETECTED
UC Davis Medical Center, Davis Tower, Roof 2315 Stockton Boulevard Sacramento, CA 95817	2/23/2024	ECG-24-7086-01A	Blue/gray sprayed-on fireproofing above ceiling on metal fluted deck center of room 0711A	NONE DETECTED
UC Davis Medical Center, Davis Tower, Ground Floor (Lower Level) 2315 Stockton Boulevard Sacramento, CA 95817	2/23/2024	ECG-24-7086-01B	Blue/gray sprayed-on fireproofing above ceiling on metal fluted deck center of room 0711A	NONE DETECTED
UC Davis Medical Center, Davis Tower, Ground Floor (Lower Level) 2315 Stockton Boulevard Sacramento, CA 95817	2/23/2024	ECG-24-7086-01C	Blue/gray sprayed-on fireproofing above ceiling on metal fluted deck center of hallway 0715	NONE DETECTED
UC Davis Medical Center, Davis Tower, Ground Floor (Lower Level) 2315 Stockton Boulevard Sacramento, CA 95817	2/23/2024	ECG-24-7086-01D	Blue/gray sprayed-on fireproofing above ceiling on metal fluted deck NE of central pharmacy room 0762	NONE DETECTED
UC Davis Medical Center, Davis Tower, Ground Floor (Lower Level) 2315 Stockton Boulevard Sacramento, CA 95817	2/23/2024	ECG-24-7086-01E	Blue/gray sprayed-on fireproofing above ceiling on metal fluted deck center of room 0777	NONE DETECTED
UC Davis Medical Center, Davis Tower, Ground Floor (Lower Level) 2315 Stockton Boulevard Sacramento, CA 95817	2/23/2024	ECG-24-7086-01F	Blue/gray sprayed-on fireproofing above ceiling on metal fluted deck south & center of room 0761	NONE DETECTED
UC Davis Medical Center, Davis Tower, Ground Floor (Lower Level) 2315 Stockton Boulevard Sacramento, CA 95817	2/23/2024	ECG-24-7086-01G	Blue/gray sprayed-on fireproofing above Gypsum ceiling on metal fluted deck center of mens restroom 0784	NONE DETECTED
UC Davis Medical Center, Davis Tower, Ground Floor (Lower	2/23/2024	ECG-24-7086-02A	Red fire caulking above ceiling west wall at pipe penetration center of hallway 0715	NONE DETECTED

Level) 2315 Stockton Boulevard Sacramento, CA 95817				
UC Davis Medical Center, Davis Tower, Ground Floor (Lower Level) 2315 Stockton Boulevard Sacramento, CA 95817	2/23/2024	ECG-24-7086-02B	Red fire caulking above ceiling west wall at pipe penetration center of hallway 0715	NONE DETECTED
UC Davis Medical Center, Davis Tower, Ground Floor (Lower Level) 2315 Stockton Boulevard Sacramento, CA 95817	2/23/2024	ECG-24-7086-03A	Green fire caulking above ceiling west wall at pipe penetration center of hallway 0715	NONE DETECTED
UC Davis Medical Center, Davis Tower, Ground Floor (Lower Level) 2315 Stockton Boulevard Sacramento, CA 95817	2/23/2024	ECG-24-7086-03B	Green fire caulking above ceiling west wall at pipe penetration center of hallway 0715	NONE DETECTED
UC Davis Medical Center, Davis Tower, Ground Floor (Lower Level) 2315 Stockton Boulevard Sacramento, CA 95817	2/23/2024	ECG-24-7086-04A	Gray HVAC seam sealant above ceiling on HVAC duct center of kit check 0777	NONE DETECTED
UC Davis Medical Center, Davis Tower, Ground Floor (Lower Level) 2315 Stockton Boulevard Sacramento, CA 95817	2/23/2024	ECG-24-7086-04B	Gray HVAC seam sealant above ceiling on HVAC duct center of kit check 0777	NONE DETECTED
UC Davis Medical Center, Davis Tower, Ground Floor (Lower Level) 2315 Stockton Boulevard Sacramento, CA 95817	2/23/2024	ECG-24-7086-05A	Tan fire sprinkler thread sealant above ceiling center of room 0711A	NONE DETECTED
UC Davis Medical Center, Davis Tower, Ground Floor (Lower Level) 2315 Stockton Boulevard Sacramento, CA 95817	2/23/2024	ECG-24-7086-05B	Tan fire sprinkler thread sealant above ceiling NE of room 0762	NONE DETECTED
UC Davis Medical Center, Davis Tower, Ground Floor (Lower Level) 2315 Stockton Boulevard Sacramento, CA 95817	2/23/2024	ECG-24-7086-06A	White drywall & White Joint Compound above ceiling west wall center of hallway 0715	NONE DETECTED NONE DETECTED
UC Davis Medical Center, Davis Tower, Ground Floor (Lower Level) 2315 Stockton Boulevard Sacramento, CA 95817	2/23/2024	ECG-24-7086-06B	White drywall & White Joint Compound above ceiling NE of room 0762	NONE DETECTED NONE DETECTED
UC Davis Medical Center, Davis Tower, Ground Floor (Lower Level) 2315 Stockton Boulevard Sacramento, CA 95817	2/23/2024	ECG-24-7086-06C	White drywall, White Joint Compound at SE corner within equipment storage/issue 0761	NONE DETECTED NONE DETECTED
UC Davis Medical Center, Davis Tower, Ground Floor (Lower Level) 2315 Stockton Boulevard Sacramento, CA 95817	2/23/2024	ECG-24-7086-06D	White drywall, White Joint Compound 1, and White Joint Compound 2 at NW corner within equipment storage/issue 0761	NONE DETECTED NONE DETECTED NONE DETECTED
UC Davis Medical Center, Davis Tower, Ground Floor (Lower Level) 2315 Stockton Boulevard Sacramento, CA 95817	2/23/2024	ECG-24-7086-07A	Gray 2’x4’ drop in acoustical ceiling tile, center of room 0711A	NONE DETECTED
UC Davis Medical Center, Davis Tower, Ground Floor (Lower Level) 2315 Stockton Boulevard Sacramento, CA 95817	2/23/2024	ECG-24-7086-07B	Gray 2’x4’ drop in acoustical ceiling tile, south center of room 0761	NONE DETECTED
UC Davis Medical Center, Davis Tower, Ground Floor (Lower Level) 2315 Stockton Boulevard Sacramento, CA 95817	2/23/2024	ECG-24-7086-08A	Black 4” vinyl cove base and tan mastic, base of south wall system in room 0761	NONE DETECTED NONE DETECTED
UC Davis Medical Center, Davis Tower, Ground Floor (Lower Level) 2315 Stockton Boulevard Sacramento, CA 95817	2/23/2024	ECG-24-7086-08B	Black 4” vinyl cove base and tan mastic, base of east wall system in room 0761	NONE DETECTED NONE DETECTED
UC Davis Medical Center, Davis Tower, Ground Floor (Lower Level) 2315 Stockton Boulevard Sacramento, CA 95817	2/23/2024	ECG-24-7086-09A	Tan 4” vinyl cove base and tan mastic, base of south wall system within room 0761	NONE DETECTED NONE DETECTED
UC Davis Medical Center, Davis Tower, Ground Floor (Lower Level) 2315 Stockton Boulevard Sacramento, CA 95817	2/23/2024	ECG-24-7086-09B	Tan 4” vinyl cove base and tan mastic, base of north wall system within room 0761	NONE DETECTED NONE DETECTED
UC Davis Medical Center, Davis Tower, Ground Floor (Lower Level) 2315 Stockton Boulevard Sacramento, CA 95817	2/23/2024	ECG-24-7086-10A	Multicolor carpet and yellow mastic, west within kit check within room 0777	NONE DETECTED NONE DETECTED
UC Davis Medical Center, Davis Tower, Ground Floor (Lower Level)	2/23/2024	ECG-24-7086-10B	Multicolor carpet and yellow mastic, south within kit check within room 0777	NONE DETECTED NONE DETECTED

2315 Stockton Boulevard Sacramento, CA 95817				
UC Davis Medical Center, Davis Tower, Ground Floor (Lower Level) 2315 Stockton Boulevard Sacramento, CA 95817	2/23/2024	ECG-24-7086-11A	White & gray 12”x12” vinyl floor tile and yellow mastic, SE within room 0771A	NONE DETECTED NONE DETECTED
UC Davis Medical Center, Davis Tower, Ground Floor (Lower Level) 2315 Stockton Boulevard Sacramento, CA 95817	2/23/2024	ECG-24-7086-11B	White & gray 12”x12” vinyl floor tile, yellow mastic and gray leveler, NE within room 0762	NONE DETECTED NONE DETECTED
UC Davis Medical Center, Davis Tower, Ground Floor (Lower Level) 2315 Stockton Boulevard Sacramento, CA 95817	2/23/2024	ECG-24-7086-12A	Gray 12”x12” vinyl floor tile, SE within room 0761	NONE DETECTED
UC Davis Medical Center, Davis Tower, Ground Floor (Lower Level) 2315 Stockton Boulevard Sacramento, CA 95817	2/23/2024	ECG-24-7086-12B	Gray 12”x12” vinyl floor tile, SE within room 0761	NONE DETECTED
UC Davis Medical Center, Davis Tower, Ground Floor (Lower Level) 2315 Stockton Boulevard Sacramento, CA 95817	2/23/2024	ECG-24-7086-13A	White 2”x2” ceramic floor tile, NE within restroom 0784	NONE DETECTED
UC Davis Medical Center, Davis Tower, Ground Floor (Lower Level) 2315 Stockton Boulevard Sacramento, CA 95817	2/23/2024	ECG-24-7086-13B	White 2”x2” ceramic floor tile and white grout, NE within restroom 0784	NONE DETECTED NONE DETECTED
UC Davis Medical Center, Davis Tower, Ground Floor (Lower Level) 2315 Stockton Boulevard Sacramento, CA 95817	2/23/2024	ECG-24-7086-14A	Gray concrete foundation, south in room 0761	NONE DETECTED
UC Davis Medical Center, Davis Tower, Ground Floor (Lower Level) 2315 Stockton Boulevard Sacramento, CA 95817	2/23/2024	ECG-24-7086-14B	Gray concrete foundation, SE in room 0761	NONE DETECTED
UC Davis Medical Center, Davis Tower, Ground Floor (Lower Level) 2315 Stockton Boulevard Sacramento, CA 95817	2/23/2024	ECG-24-7086-01Pb	Beige Paint on Drywall - Above Ceiling on Drywall Wall Throughout, Center of Hallway 0715	
UCDMC, Davis Tower, 7th Floor 2315 Stockton Boulevard Sacramento, CA 95817	4/17/2023	ECG-23-6634-01A	Drywall and Joint Compound / Mens Restroom 7713	NONE DETECTED
UCDMC, Davis Tower, 7th Floor 2315 Stockton Boulevard Sacramento, CA 95817	4/17/2023	ECG-23-6634-01B	Drywall and Joint Compound / Mens Restroom 7721	NONE DETECTED
UCDMC, Davis Tower, 7th Floor 2315 Stockton Boulevard Sacramento, CA 95817	4/17/2023	ECG-23-6634-02A	2' x 4' Ceiling Panel / Mens Restroom 7713	NONE DETECTED
UCDMC, Davis Tower, 7th Floor 2315 Stockton Boulevard Sacramento, CA 95817	4/17/2023	ECG-23-6634-02B	2' x 4' Ceiling Panel / Mens Restroom 7721	NONE DETECTED
UCDMC, Davis Tower, 7th Floor 2315 Stockton Boulevard Sacramento, CA 95817	4/17/2023	ECG-23-6634-03A	2' x 2' Beige Ceramic Wall Tile with Grout and Adhesive / Mens RR 7721	NONE DETECTED
UCDMC, Davis Tower, 7th Floor 2315 Stockton Boulevard Sacramento, CA 95817	4/17/2023	ECG-23-6634-04A	2' x 4' Ceiling Panel (Textured) / Distribution Store 7701	NONE DETECTED
UCDMC, Davis Tower, 7th Floor 2315 Stockton Boulevard Sacramento, CA 95817	4/17/2023	ECG-23-6634-04B	2' x 4' Ceiling Panel (Textured) / Distribution Store 7701	NONE DETECTED
UCDMC, Davis Tower, 7th Floor 2315 Stockton Boulevard Sacramento, CA 95817	4/17/2023	ECG-23-6634-05A	Drywall and Joint Compound / Distribution Store 7701	NONE DETECTED
UCDMC, Davis Tower, 7th Floor 2315 Stockton Boulevard Sacramento, CA 95817	4/17/2023	ECG-23-6634-06A	4" Gray Vinyl Base Cove with Mastic / Distribution Store 7701	NONE DETECTED
UCDMC, Davis Tower, 7th Floor 2315 Stockton Boulevard Sacramento, CA 95817	4/17/2023	ECG- 23-6634-07A	12" x 12" Beige Mottled Vinyl Floor Tile with Yellow Mastic / Distribution Store 7701	NONE DETECTED
UCDMC, Davis Tower, 7th Floor 2315 Stockton Boulevard Sacramento, CA 95817	4/17/2023	ECG-23-6634-07B	12" x 12" Beige Mottled Vinyl Floor Tile with Yellow Mastic / Distribution Store 7701	NONE DETECTED
UCDMC, Davis Tower, 7th Floor 2315 Stockton Boulevard Sacramento, CA 95817	4/17/2023	ECG-23-6634-08A	Drywall and Joint Compound / Mens Restroom 7709	NONE DETECTED
UCDMC, Davis Tower, 7th Floor 2315 Stockton Boulevard Sacramento, CA 95817	4/17/2023	ECG-23-6634-09A	2' x 4' Ceiling Panel Restroom 7709	NONE DETECTED
UCDMC, Davis Tower, 7th Floor 2315 Stockton Boulevard Sacramento, CA 95817	4/17/2023	ECG-23-6634-10A	12" x 12" Beige Mottled Vinyl Floor Tile with Yellow Mastic / Corridor 7700, Drinking Fountain Alcove	NONE DETECTED
UCDMC, Davis Tower, 7th Floor 2315 Stockton Boulevard Sacramento, CA 95817	4/17/2023	ECG-23-6634-11A	12" x 12" Gray Vinyl Base Cove with Mastic / Corridor 7700, Drinking Fountain Alcove	NONE DETECTED
UCDMC, Davis Tower, 7th Floor 2315 Stockton Boulevard Sacramento, CA 95817	4/17/2023	ECG-23-6634-12A	Plastic Wall Panel Adhesive / Corridor 7700, Drinking Fountain Alcove	NONE DETECTED

UCDMC, Davis Tower, 7th Floor 2315 Stockton Boulevard Sacramento, CA 95817	4/17/2023	ECG-23-6634-13A	Drywall / Corridor 7700, Drinking Fountain Alcove	NONE DETECTED
UCDMC, Davis Tower 7th Floor 2315 Stockton Boulevard Sacramento, CA 95817	4/17/2023	ECG-23-6634-01Pb	Beige Paint on Drywall Wall / Distribution Store 7701	
UCDMC - Davis Tower, 8th Fl 2315 Stockton Boulevard Sacramento, CA 95817	12/9/2022	ECG-22-6419-01A	Gray Under Sink Coating - Room 8782E	NONE DETECTED
UCDMC - Davis Tower, 8th Fl 2315 Stockton Boulevard Sacramento, CA 95817	12/9/2022	ECG-22-6419-02A	4" Brown Vinyl Base Cove - Room 8782E	NONE DETECTED
UCDMC - Davis Tower, 8th Fl 2315 Stockton Boulevard Sacramento, CA 95817	12/9/2022	ECG-22-6419-03A	Tan Wall Paper with Mastic - Rm 8782E	NONE DETECTED
UCDMC - Davis Tower, 8th Fl 2315 Stockton Boulevard Sacramento, CA 95817	12/9/2022	ECG-22-6419-04A	Drywall & Joint Compound - Room 8782E	NONE DETECTED
UCDMC - Davis Tower, 8th Fl 2315 Stockton Boulevard Sacramento, CA 95817	12/9/2022	ECG-22-6419-05A	Skim Coat Ceiling Texture - Room 8782E	NONE DETECTED
UCDMC - Davis Tower, 8th Fl 2315 Stockton Boulevard Sacramento, CA 95817	12/9/2022	ECG-22-6419-05B	Skim Coat Ceiling Texture - Room 8782E	NONE DETECTED
UCDMC - Davis Tower, 8th Fl 2315 Stockton Boulevard Sacramento, CA 95817	12/9/2022	ECG-22-6419-05C	Skim Coat Ceiling Texture - Room 8782E	NONE DETECTED
UCDMC - Davis Tower, 8th Fl 2315 Stockton Boulevard Sacramento, CA 95817	12/9/2022	ECG-22-6419-06A	2' x 2' Drop-In Acoustical Ceiling Panel - Corridor Outside Room 8782E	NONE DETECTED
UCDMC - Davis Tower, 8th Fl 2315 Stockton Boulevard Sacramento, CA 95817	12/9/2022	ECG-22-6419-07A	Red Fire Caulking, Corridor Outside Room 8782E	NONE DETECTED
UCDMC - Davis Tower 2315 Sotckton Boulevard Sacramento, CA 95817	12/7/2021	ECG-21-5999-01A	Drywall with Joint Compound / 7th Fl, Rm 7714, East Wall Midpoint	NONE DETECTED
UCDMC - Davis Tower 2315 Sotckton Boulevard Sacramento, CA 95817	12/7/2021	ECG-21-5999-01B	Drywall with Joint Compound / 7th Fl, Rm 7705, South Wall Towards East Side	NONE DETECTED
UCDMC - Davis Tower 2315 Sotckton Boulevard Sacramento, CA 95817	12/7/2021	ECG-21-5999-02A	Skim Coat Wall Texture / 7th Fl, Rm 7714, Northeast Corner	NONE DETECTED
UCDMC - Davis Tower 2315 Sotckton Boulevard Sacramento, CA 95817	12/7/2021	ECG-21-5999-02B	Skim Coat Wall Texture / 7th Fl, Rm 7714, West Wall Midpoint	NONE DETECTED
UCDMC - Davis Tower 2315 Sotckton Boulevard Sacramento, CA 95817	12/7/2021	ECG-21-5999-02C	Skim Coat Wall Texture / 7th Fl, Rm 7714, West Wall	NONE DETECTED
UCDMC - Davis Tower 2315 Sotckton Boulevard Sacramento, CA 95817	12/7/2021	ECG-21-5999-03A	4" Tan Vinyl Base Cove with Tan Mastic / 7th Fl, Rm 7714, North Wall, East Side	NONE DETECTED
UCDMC - Davis Tower 2315 Sotckton Boulevard Sacramento, CA 95817	12/7/2021	ECG-21-5999-03B	4" Tan Vinyl Base Cove with Tan Mastic / 7th Fl, Rm 7705, South Wall, East Corner	NONE DETECTED
UCDMC - Davis Tower 2315 Sotckton Boulevard Sacramento, CA 95817	12/7/2021	ECG-21-5999-04A	2' x 4' Textured Acoustical Drop-in Ceiling Panel / 7th Fl, Rm 7714, West Wall Midpoint	NONE DETECTED
UCDMC - Davis Tower 2315 Sotckton Boulevard Sacramento, CA 95817	12/7/2021	ECG-21-5999-04B	2' x 4' Textured Acoustical Drop in Ceiling Panel / 7th Fl, Rm 7705, Southeast Side	NONE DETECTED
UCDMC - Davis Tower 2315 Sotckton Boulevard Sacramento, CA 95817	12/7/2021	ECG-21-5999-05A	Gray Fireproofing / 7th Fl, Rm 7714, Westside Midpoint	NONE DETECTED
UCDMC - Davis Tower 2315 Sotckton Boulevard Sacramento, CA 95817	12/7/2021	ECG-21-5999-05B	Gray Fireproofing / 7th Fl, Rm 7714, Midpoint	NONE DETECTED
UCDMC - Davis Tower 2315 Sotckton Boulevard Sacramento, CA 95817	12/7/2021	ECG-21-5999-05C	Gray Fireproofing / 7th Fl, Rm 7714, Eastside	NONE DETECTED
UCDMC - Davis Tower 2315 Sotckton Boulevard Sacramento, CA 95817	12/7/2021	ECG-21-5999-06A	Gray Wallpaper and Glue / 7th Fl, Rm 7705, South Wall, East Corner	NONE DETECTED
UCDMC - Davis Tower 2315 Sotckton Boulevard Sacramento, CA 95817	12/7/2021	ECG-21-5999-07A	Skim Coat Wall Texture / 7th Fl, Rm 14704, North Wall Towards Eastside	NONE DETECTED
UCDMC - Davis Tower 2315 Sotckton Boulevard Sacramento, CA 95817	12/7/2021	ECG-21-5999-07B	Skim Coat Wall Texture / 7th Fl, Rm 14704, North Wall	NONE DETECTED
UCDMC - Davis Tower 2315 Sotckton Boulevard Sacramento, CA 95817	12/7/2021	ECG-21-5999-07C	Skim Coat Wall Texture / 7th Fl, Rm 14704, North Wall Towards Westside	NONE DETECTED
UCDMC - Davis Tower 2315 Sotckton Boulevard Sacramento, CA 95817	12/7/2021	ECG-21-5999-08A	Blue Carpet w/ Yellow Mastic, Rm 14704, Southeast Corner	NONE DETECTED
UCDMC - Davis Tower 2315 Sotckton Boulevard Sacramento, CA 95817	12/7/2021	ECG-21-5999-09A	4" Blue Base Cove w/ Tan Mastic, Rm 14704, Southeast Corner	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-01A	Drywall and Joint Compound; Corridor 5780	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-01B	Drywall and Joint Compound; Corridor 5780	NONE DETECTED

NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-01C	Drywall and Joint Compound; Corridor 5770	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-01D	Drywall and Joint Compound; Patient Locker 5748	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-01E	Drywall and Joint Compound; Corridor AAA; New Intensive Care Unit Beds 5822 Entry Door	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-02A	Skim Coat on Drywall; Corridor 5780	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-02B	Skim Coat on Drywall; Corridor 5780	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-02C	Skim Coat on Drywall; Corridor 5770	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-02D	Skim Coat on Drywall; Patient Locker Room 5748	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-02E	Skim Coat on Drywall; Corridor AAA; Near Exit Stairs	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-02F	Skim Coat on Drywall; Corridor AAA; Under Bench; at Perimeter Windows; Corridor AAA	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-02G	Skim Coat on Drywall; Corridor AAA; New Intensive Car Unit Bed 5822 Entry Door	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-03A	Tan Sheet Vinyl Flooring with Yellow Mastic and Burlap; NICU; Corridor 5780	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-03B	Yellow Sheet Vinyl Flooring with Yellow Mastic and Burlap Backing; Corridor 5770	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-03C	Gray Sheet Vinyl Flooring with Yellow Mastic and Burlap Backing; Near Intensive Care Unit Entry Door	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-04A	Green Glue Associated with 2' x 2' Blue/Gray Carpet Square; Patient Locker Room 5748	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-04B	Green Glue Associated with 2' x 2' Blue/Gray Carpet Square; Patient Locker Room 5745	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-05A	Gray 6" Vinyl Base Cove with Tan Mastic; Corridor 5780	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-05B	Gray 6" Vinyl Base Cove with Tan Mastic; Corridor 5770	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-05C	6" Gray Vinyl Base Cove with Tan Mastic; Near Intensive Care Unit Bed 5822 Entry Door	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-06A	Gray 12" x 12" with Tan Mastic and Green Glue; Patient Locker Room 5748	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-07A	4" Tan Vinyl Base Cove with Tan Mastic; Patient Locker Room 5748	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-07B	4" Tan Vinyl Base Cove with Tan Mastic; Patient Locker Room 5748	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-01A	Drywall and Joint Compound; Corridor 5780	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-01B	Drywall and Joint Compound; Corridor 5780	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-01C	Drywall and Joint Compound; Corridor 5770	NONE DETECTED

NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-01D	Drywall and Joint Compound; Patient Locker 5748	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-01E	Drywall and Joint Compound; Corridor AAA; New Intensive Care Unit Beds 5822 Entry Door	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-02A	Skim Coat on Drywall; Corridor 5780	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-02B	Skim Coat on Drywall; Corridor 5780	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-02C	Skim Coat on Drywall; Corridor 5770	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-02D	Skim Coat on Drywall; Patient Locker Room 5748	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-02E	Skim Coat on Drywall; Corridor AAA; Near Exit Stairs	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-02F	Skim Coat on Drywall; Corridor AAA; Under Bench; at Perimeter Windows; Corridor AAA	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-02G	Skim Coat on Drywall; Corridor AAA; New Intensive Car Unit Bed 5822 Entry Door	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-03A	Tan Sheet Vinyl Flooring with Yellow Mastic and Burlap; NICU; Corridor 5780	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-03B	Yellow Sheet Vinyl Flooring with Yellow Mastic and Burlap Backing; Corridor 5770	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-03C	Gray Sheet Vinyl Flooring with Yellow Mastic and Burlap Backing; Near Intensive Care Unit Entry Door	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-04A	Green Glue Associated with 2' x 2' Blue/Gray Carpet Square; Patient Locker Room 5748	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-04B	Green Glue Associated with 2' x 2' Blue/Gray Carpet Square; Patient Locker Room 5745	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-05A	Gray 6" Vinyl Base Cove with Tan Mastic; Corridor 5780	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-05B	Gray 6" Vinyl Base Cove with Tan Mastic; Corridor 5770	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-05C	6" Gray Vinyl Base Cove with Tan Mastic; Near Intensive Care Unit Bed 5822 Entry Door	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-06A	Gray 12" x 12" with Tan Mastic and Green Glue; Patient Locker Room 5748	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-07A	4" Tan Vinyl Base Cove with Tan Mastic; Patient Locker Room 5748	NONE DETECTED
NICU, Davis Tower, 5th Floor Flooring Replacement Project 8 Phases Sacramento, CA	1/25/2017	ECG-17-4236-07B	4" Tan Vinyl Base Cove with Tan Mastic; Patient Locker Room 5748	NONE DETECTED

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UCDMC NO. 9557570

DT 1ST FLR RAD Nuclear Medicine Remodel

UNIVERSITY OF CA DAVIS, MEDICAL CENTER

2315 STOCKTON BLVD.

SACRAMENTO, CALIFORNIA 95817

100% CONSTRUCTION DOCUMENTS

ABBREVIATIONS

&	AND	HR.	HOUR
L	ANGLE	I.D.	INSIDE DIAMETER
@	AT	I.D.F.	INTERMEDIATE DISTRIBUTION FRAME
DIA	DIAMETER	INSUL.	INSULATION
#	NUMBER	INT.	INTERIOR
(E)	EXISTING	JT.	JOINT
(N)	NEW	K.S.	KNEE SPACE
d	PENNY	LAM.	LAMINATE
PL	PLATE	LAV.	LAVATORY
AC	ASPHALT CONCRETE	MAX.	MAXIMUM
A.D.	AREA DRAIN	M.B.	MACHINE BOLT
ADJ.	ADJUSTABLE	M.C.	MEDICINE CABINET
AGGR.	AGGREGATE	MECH.	MECHANICAL
A.F.F.	ABOVE FINISHED FLOOR	MED.	MEDIUM
ALUM.	ALUMINUM	MEMB.	MEMBRANE
APPROX.	APPROXIMATE	MFR.	MANUFACTURE
ARCH.	ARCHITECTURAL	MIN.	MINUMUM
BD.	BOARD	MIR.	MIRROR
BITUM.	BITUMINUOUS	MISC.	MISCELLANEOUS
BLDG.	BUILDING	M.O.	MASONRY OPENING
BLKG.	BLOCKING	MTD.	MOUNTED
BM.	BEAM	MTL.	METAL
B.N.	BULNOSE	MUL.	MULLION
BOTT.	BOTTOM	N	NORTH
B.U.	BUILT-UP	N.I.C.	NOT INCLUDED IN CONTRACT
C.B.	CATCH BASIN	NO.	NUMBER
CEM.	CEMENT	NOM.	NOMINAL
CER.	CERAMIC	N.T.S.	NO TO SCALE
C.I.	CAST IRON	OA.	OVERALL
C.J.	CONSTRUCTION JOINT	O.C.	ON CENTER
CLNG.	CEILING	O.D.	OUTSIDE DIAMETER
CLKG.	CHAULKING	O.F.C.I.	OWNER FURNISHED CONTRACTOR INSTALLED
CLR.	CLEAR		
C.M.U.	CONCRETE MASONRY UNIT	OPNG.	OPENING
C.F.C.I.	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	OPP.	OPPOSITE
		OP.H.	OPPOSITE HANDED
CG	CORNER GUARD	P.H.	PAN HEAD
CNTR.	COUNTER	PLAS.	PLASTIC
C.O.	CLEAN OUT	PLAM.	PLASTIC LAMINATE
COL.	COLUMN	PLYWD.	PLYWOOD
CONC.	CONCRETE	PM	PRESSED METAL
CONN.	CONNECTOR	POC	POINT OF CONNECTION
CONSTR.	CONSTRUCTION	PRECST.	PRECAST
CONT.	CONTINUOUS	PTN.	PARTITION
C.T	CERAMIC TILE	PVC	POLYVINYL CHLORIDE
C.M.T.	CERAMIC MOSIAC TILE	Q.T.	QUARRY TILE
CTSK.	COUNTERSINK	R.A.	RETURN AIR
DBL.	DOUBLE	R.D.	ROOF DRAIN
DIM.	DIMENSION	REINF.	REINFORCING
DN.	DOWN	REQ'D	REQUIRED
D.O.	DOOR OPENING	RESIL.	RESILENT
DR.	DOOR	R.F.	RADIO FREQUENCY
DS.	DOWNSPOUT	R.O.	ROUGH OPENING
DTL.	DETAIL	RWD.	REDWOOD
DWG.	DRAWING	RWL	RAIN WATER LEADER
DRW.	DRAWER	S	SOUTH
EA.	EACH	SWR.	SHOWER
E.J.	EXPANSION JOINT	SHT.	SHEET
EL.	ELEVATION	SIM.	SIMILAR
ELEC.	ELECTRICAL	SMS.	SHEET METAL SCREW
ENCL.	ENCLOSURE	SQ.	SQUARE
E.O.	EDGE OF	S.S.	STAINLESS STEEL
EQ.	EQUAL	STD.	STANDARD
EXP.	EXPOSED	STL.	STEEL
EXT.	EXTERIOR	STOR.	STORAGE
F.A.I.	FOR ADDITIONAL INFO	STRUCT.	STRUCTURAL
F.D.	FLOOR DRAIN	SUSP.	SUSPENDED
FIN.	FINISH	SYM.	SYMMETRICAL
FL.	FLOOR	T.O.C.	TOP OF CURB
FLASH.	FLASHING	TEL.	TELEPHONE
FLUOR.	FLUORESCENT	T&B	TOP & BOTTOM
F.O.	FACE OF	T&G	TONGUE & GROOVE
F.O.F.	FACE OF FINISH	THK.	THICK
F.O.S.	FACE STUD	T.O.S.	TOP OF STEEL
FT.	FOOT/FEET	TS	TUBE STEEL
FTG.	FOOTING	TYP.	TYPICAL
FURR.	FURRING	U/C	UNDERCOUNTER
FUT.	FUTURE	U.S.	UNDERSIDE
GA.	GAUGE	UNF.	UNFINISHED
GALV.	GALVANIZED	U.N.O.	UNLESS NOTED OTHERWISE
G.B.	GRAB BAR	V.F.V.I.	VENDER FURNISHED VENDER INSTALLED
GL.	GLASS	VERT.	VERTICAL
GND.	GROUND	W / E	WEST / EAST
GRD.	GRADE	W/	WITH
GYP.	GYPSUM	W.C.	WATER CLOSET
H.C.	HANDICAPPED	WD.	WOOD
HDWD.	HARDWOOD	W/O	WITHOUT
H.	HEIGHT	WP.	WATERPROOF
H.M.	HOLLOW METAL	WR.	WATER RESISTANT
HORIZ.	HORIZONTAL	W.S.	WEATHER STRIP
		W.W.F.	WELED WIRE FABRIC

EH & S NOTES

1. ALL EQUIPMENT, APPLIANCES, SHELVING AND ALL OTHER ITEMS SHALL BE PERMANENTLY BRACED AND/OR ANCHORED TO THE FLOOR OR WALL. EXEMPTIONS INCLUDE BUT ARE NOT LIMITED TO:

   A. FURNITURE (EXCEPT STORAGE CABINETS)

   B. TEMPORARY OR MOVABLE EQUIPMENT

   C. ARCHITECTURAL, MECHANICAL, AND ELECTRACL COMPONENTS IN SEISMIC DESIGN CATEGORIES D, E, OR F WHERE ALL OF THE FOLLOWING APPLY:

      i. THE COMPONENT IS POSITIVELY ATTACHED TO THE STRUCTURE:
      ii. FLEXIBLE CONNECTIONS ARE PROVIDED AT SEISMIC SEPARATION JOINTS AND BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT; AND EITHER:

         (a) THE COMPONENT WEIGHTS 400 POUNDS OR LESS AND HAS A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT

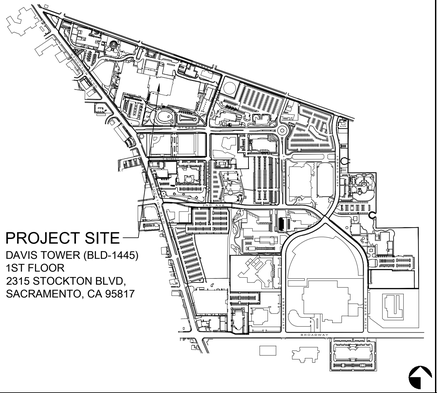
         (b) THE COMPONENT WEIGHTS 20 POUNDS OR LESS, OR IN THE CASE OF A DISTRIBUTED SYSTEM, 5 LB/FT OR LESS. EXCEPTION: THE ENFORCEMENT AGENCY SHALL BE PERMITTED TO REQUIRE ATTACHMENTS FOR EQUIPMENT WITH HAZARDOUS CONTENTS TO BE SHOWN ON CONSTRUCTION DOCUMENTS RESPECTIVE OF WEIGHTS.

2. ALL EQUIPMENT REQUIRED ANCHORAGE WHETHER INSTALLED BY CONTRACTOR OR BY THE OWNER SHALL BE ANCHORED, SUPPORTED AND BRACED IN ACCORDANCE WITH CBC 2013 TITLE 24, TABLE 16A HORIZONTAL FORCE FACTORS

3. NON-MERCURY CONTAINING RELAYS, SWITCHES, THERMOSTATS AND OTHER SIMILAR COMPONENTS SHALL BE USED THROUGH OUT PROJECT.

4. FLUORESCENT LIGHT BALLASTS SHALL BE NON-POLYCHLORINATED BIPHENYL CONTAINING AND SHALL BE LABELED "NO PCB."

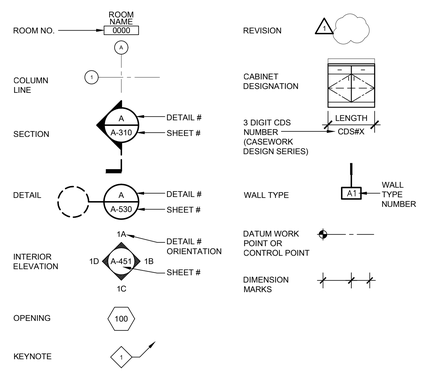
PROJECT LOCATION



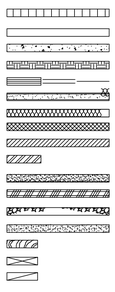
PROJECT SITE
DAVIS TOWER (BLD-1445)
1ST FLOOR
2315 STOCKTON BLVD,
SACRAMENTO, CA 95817

REFERENCE SYMBOLS

SEE INDIVIDUAL SHEETS FOR ADDITIONAL SHEET SPECIFIC SYMBOLS / LEGENDS NOT INDICATED HERE:



MATERIAL INDICATIONS



GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL APPLICABLE CODES AND REGULATIONS.

2. DO NOT SCALE THE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALE. SHOULD ANY DISCREPANCIES OCCUR, NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.

3. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE SITE AND SHALL REPORT ANY DISCREPANCIES IN WRITING TO THE ARCHITECT PRIOR TO SUBMITTALS.

4. SPECIFIC ITEMS NOTED TO BE VERIFIED OR FIELD VERIFIED ARE REQUIRED TO BE VERIFIED PRIOR TO ORDERING MATERIALS OR PROCEEDING WITH WORK.

5. ALL WORK, MATERIAL, METHODS, ETC. SHALL CONFORM TO ALL GOVERNING BUILDING CODES, REGULATIONS AND AGENCIES.

6. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ASSURING THAT ALL NECESSARY PERMITS AND APPROVALS ARE OBTAINED PRIOR TO BEGINNING WORK OR ORDERING MATERIALS.

7. ANY CONFLICT WITH THESE DOCUMENTS AND EXISTING CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.

8. ALL WORK SHALL BE IN COMPLETE CONFORMANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS OR AS OTHERWISE OUTLINED IN THE SPECIFICATIONS.

9. THE CONTRACTOR SHALL COORDINATE WITH THE EQUIPMENT SUPPLIERS FOR POWER REQUIREMENTS, BLOCKING LOCATIONS, SUPPORT FOR EQUIPMENT, PLUMBING REQUIREMENTS AND ROUGH-IN LOCATIONS.

10. USE OF ANY (N) MATERIAL CONTAINING ASBESTOS IS PROHIBITED.

11. DETAILS, MATERIALS AND FINISHES ARE TYPICAL FOR ALL SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.

12. THE TERM "TYPICAL" (TYP) SHALL BE CONSTRUED TO MEAN APPLYING TO ALL LIKE OR SIMILAR CONDITIONS IN AREAS DESIGNATED FOR WORK SCOPE (I.E. WITHIN THE BOUNDARIES OF THIS PROJECT).

13. ALL DEMOLISHED ITEMS SHALL BE REMOVED FROM THE SITE AND RETURNED TO THE OWNER FOR HIS USE

14. ALL PRODUCTS AND/OR MANUFACTURERS INDICATED ON DRAWINGS SHALL COMPLY WITH SPECIFICATIONS AND/OR APPROVED IN WRITING BY ARCHITECT PRIOR TO ORDERING OR INSTALLING OF MATERIAL.

15. ALL DOORS NOT LOCATED BY DIMENSION ON PLANS OR DETAILS SHALL BE 4" FROM FINISH WALL TO DOOR BUCK.

16. ALL DIMENSIONS ARE GIVEN FROM CENTER LINE OF EXISTING STRUCTURAL COLUMNS(GRID LINES), FACE OF CONCRETE, OR STUD UNLESS OTHERWISE NOTED.

17. THE CONTRACTOR SHALL OBTAIN AND PAY ALL NECESSARY PERMITS WITH COUNTY AND/OR OTHER AUTHORITIES WITH JURISDICTION.

18. WHERE THERE WILL BE FLOOR PENETRATIONS, FLOOR IS TO BE SCANNED PRIOR TO CONSTRUCTION IN THE PRESENCE OF THE UCDMC PROJECT MANAGER.

PROJECT DATA

PROJECT LOCATION:

DAVIS TOWER, 1ST FLOOR
2315 STOCKTON BLVD
SACRAMENTO, CA 95817

GENERAL SCOPE OF WORK:

REMODEL OF EXISTING THE PET CT 1878, NUC MED 1875K, 1865J, 1865I SPACES ON THE FIRST FLOOR OF THE DAVIS TOWER, BUILDING 12 TO PREPARE FOR THE NEW GE NUCLEAR MEDICINE EQUIPMENT AND CONTROL ROOM SPACE SUITE. THE PROJECT ALSO INCLUDES A NEW UPTAKE ROOM, HOUSEKEEPING CLOSET AND INFUSION TREATMENT SPACE WITH 4 PATIENT BAYS, A PATIENT TOILET, CONSULT ROOM, AND A PREP AREA. WITH THESE UPDATES, THE EXISTING RADIOLOGY WAITING 1729 WILL SERVE THESE SPACES IN THE RADIOLOGY DEPARTMENT. WORK INCLUDES BUT IS NOT LIMITED TO NON-BEARING PARTITIONS, LEAD SHIELDING, FINISHES, CASEWORK, FURNITURE SYSTEM, EQUIPMENT ANCHORAGE, FLOOR SLAB CUTTING AND PATCHING, AND MODIFICATION TO MECHANICAL, PLUMBING, AND ELECTRICAL SYSTEMS.

2 2022 CBC ANALYSIS:

EXISTING BUILDING:

1	LOCATION: HCAI FACILITY NUMBER:	1ST FLOOR, DAVIS TOWER BLD-01445
	OCCUPANCY:	I-2 (EXISTING UNCHANGED)
	CONSTRUCTION TYPE:	1-A - FULLY SPRINKLERED (EXISTING UNCHANGED)
	ALLOWABLE AREA:	UNLIMITED
	TENANT IMPROVEMENT AREA:	3,033 SF TOTAL 2,270 SF NUCLEAR MEDICINE 763 SF INFUSION AREA
1	SPC RATING: HCAI NPC RATING:	5S 2

APPLICABLE CODES

ALL WORK SHALL CONFORM TO THE FOLLOWING AND ALL OTHER APPLICABLE CODES AND ORDINANCES:

2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24, C.C.R.
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, C.C.R.
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24, C.C.R.
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, C.C.R.
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, C.C.R.
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24, C.C.R.
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, C.C.R.
2022 CALIFORNIA GREEN CODE, PART 11, TITLE 24, C.C.R.
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, C.C.R.

2022 NFPA 13, THE INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS, AS AMENDED
2022 NFPA 72, NATIONAL FIRE ALARM CODE, AS AMENDED

NOTE:
THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION, OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA BUILDING CODE OR REGULATIONS. SHOULD ANY EXISTING CONDITIONS BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER, OR SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY THE ARCHITECT BEFORE PROCEEDING WITH THE REPAIR WORK.

PROJECT TEAM

OWNER:
UCD MEDICAL CENTER
2315 STOCKTON BOULEVARD
SACRAMENTO, CA 95817
(916) 919-6319
CONTACT: ZACK PRICE

ARCHITECT:
NACHT & LEWIS ARCHITECTS
600 Q STREET, SUITE 100
SACRAMENTO, CA 95811
(916) 329-4000
CONTACT: JOHN FLATH

STRUCTURAL:
BUEHLER
600 Q STREET, SUITE 200
SACRAMENTO, CA 95811
(916) 443-0303
CONTACT: JASON PASSALACQUA

MECHANICAL:
R&A ENGINEERING SOLUTIONS, INC.
601 UNIVERSITY AVENUE, SUITE 255
SACRAMENTO, CA 95825
(916) 920-5965
CONTACT: SCOTT CROSBY

ELECTRICAL:
EDGE ELECTRICAL CONSULTING
400 R STREET, SUITE 333
SACRAMENTO, CA 95811
(916) 256-2460
CONTACT: GORDON WONG

SHEET INDEX (CONTINUED)

FIRE PROTECTION
FP-1 FIRE SPRINKLER PLANS
2 FP-2 FIRE SPRINKLER PLANS

FIRE ALARM
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FA1.01 FIRE ALARM FLOOR PLANS PHASE 1 DEMOLITION & RENOVATION PLANS
FA1.02 FIRE ALARM FLOOR PLANS PHASE 2 DEMOLITION & RENOVATION PLANS
FA1.03 FIRADM FLOOR PLANS PHASE 3 DEMOLITION & RENOVATION PLANS
FA1.04 FIRE ALARM FLOOR PLANS PHASE 4 DEMOLITION & RENOVATION PLANS
FA2.00 FIRE ALARM SINGLE LINE DIAGRAM
FA3.00 TYPICAL FIRE ALARM DETAILS & ELEVATIONS
FA3.01 FIRE ALARM CALCULATIONS

DEFERRED DRAWINGS

INSTALLATION OF DEFERRED APPROVAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR ENGINEER, AND APPROVED BY THE APPROPRIATE APPROVING JURISDICTION.

DA-01 SEISMIC BRACING OF UTILITIES 1

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G131 1ST FLOOR ACCESSIBILITY PLAN
G141 LIFE SAFETY & CODE ANALYSIS PLAN
G161 ACCESSIBILITY REQUIREMENTS

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A111 PARTIAL 1ST FLOOR PLANS
A211 PARTIAL 1ST FLOOR REFLECTED CEILING PLANS
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A401 SECTIONS
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A511B AREA A - PHASE 2 - 1ST FLOOR DEMOLITION & RENOVATION PLANS
A511C AREA A - PHASE 3 - 1ST FLOOR DEMOLITION & RENOVATION PLANS
A512 AREA B - 1ST FLOOR DEMOLITION & RENOVATION PLANS
A541A AREA A - PHASE 1 - DEMOLITION & RENOVATION REFLECTED CEILING PLANS
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A651 SUSPENDED CEILING DETAILS
A652 SUSPENDED CEILING DETAILS
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S-501 METAL STUD DETAILS
S-502 METAL STUD DETAILS
S-601 DETAILS
S-602 DETAILS
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M002 MECHANICAL SCHEDULES
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M113 AREA A - PHASE 3 - FIRST FLOOR AIR BALANCE PRECAUTION PLAN
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M511 OVERALL FIRST FLOOR MECHANICAL PLAN
M511A AREA A - PHASE 1 - FIRST FLOOR DEMOLITION AND NEW MECHANICAL PLANS
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M511C AREA A - PHASE 3 - FIRST FLOOR DEMOLITION AND NEW MECHANICAL PLANS
M512 AREA B - PARTIAL FIRST FLOOR DEMOLITION AND NEW MECHANICAL PLAN
M513 PHASE 1 THRU 3 - PARTIAL 2ND FLOOR MEZZ. LEVEL DEMOLITION PLAN
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1 M603 MECHANICAL DETAILS

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P511C AREA A - PHASE 3 - FIRST FLOOR DEMOLITION AND NEW PLUMBING PLANS
P512 PARTIAL FIRST FLOOR DEMOLITION AND NEW PLUMBING PLANS
P513 PARTIAL 2ND FLOOR MEZZ LEVEL PLUMBING PLAN
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E311A AREA A PHASE 1 NUC MED #1 IMAGING EQUIPMENT PLANS AND NOTES
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E312A AREA A PHASE 2 NUC MED #3 IMAGING EQUIPMENT PLANS AND NOTES
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E541C AREA A ENLARGED FIRST FLOOR PLAN - PHASE 3 LIGHTING
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E602 TIME-CURRENT CURVES AND NOTES
E701 PANEL SCHEDULES
E702 PANEL SCHEDULES
E801 DETAILS
E802 DETAILS
E803 DETAILS
E804 DETAILS
E805 DETAILS
E806 DETAILS

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916.329.4000

DESIGN PROFESSIONALS OF RECORD:

LICENSED ARCHITECT JOHN M. FLATH No. C-21990 RENEWAL 12-31-25 STATE OF CALIFORNIA

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE SUITE 3010
SACRAMENTO, CALIFORNIA 95817
(916)734-7934

CONSULTANT LOGO:

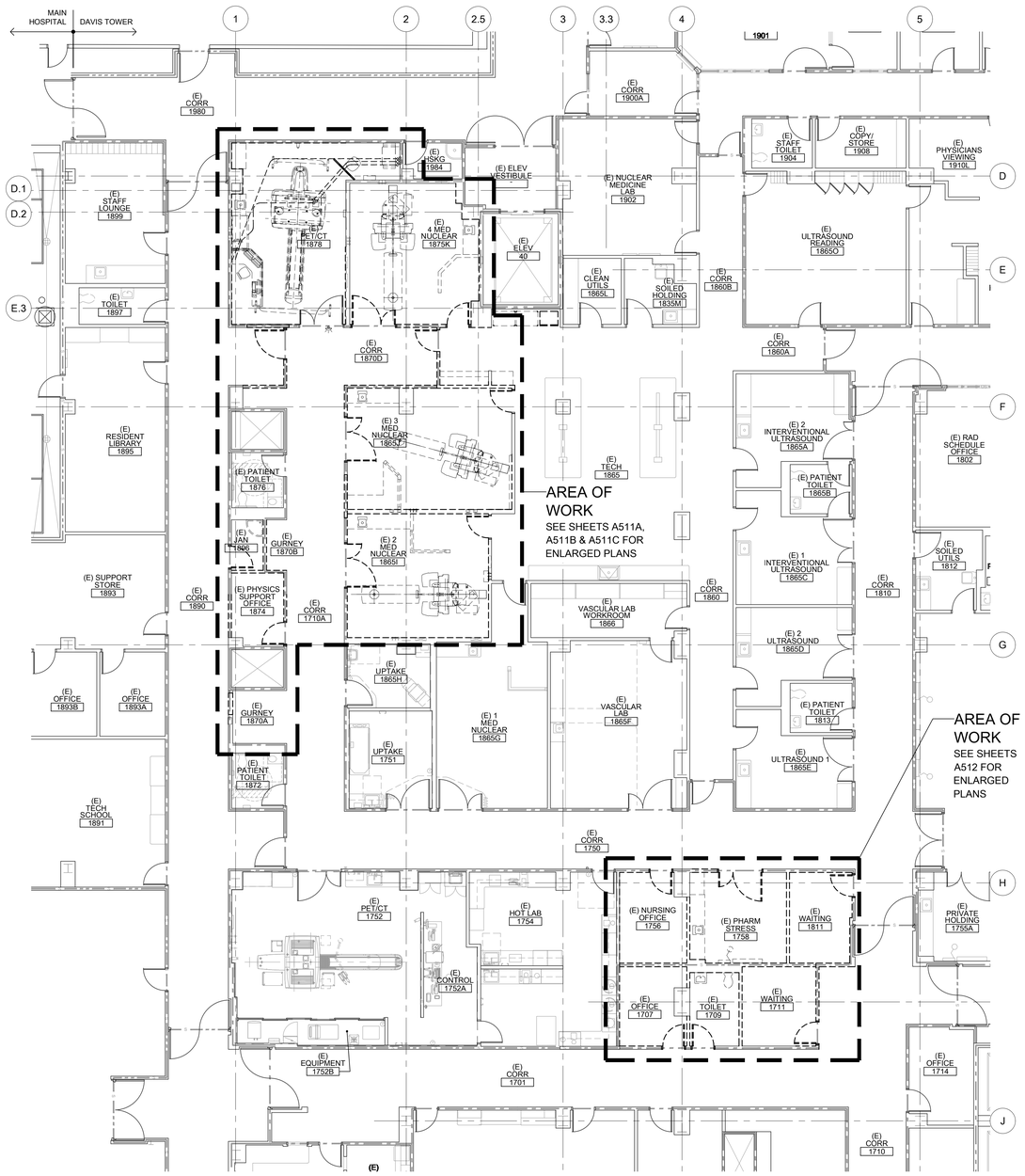
REV	REVISION DESCRIPTION	DATE
1	HCAI BACKCHECK 01	5/17/2024
2	BID ADDENDA	12/6/2024

CONSTRUCTION DOCUMENTS

PROJECT NO: 9557570
OSHPD NO: S240360-34-00
BUILDING: DAVIS TOWER, UNIVERSITY OF CA DAVIS, MEDICAL CENTER
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: DT 1ST FLR RAD NUCLEAR MEDICINE REMODEL
SHEET TITLE: PROJECT DATA

ARCH./ENGR. J. Flath	FD&C JOB NO. -	SHEET NO. G111	
UCDMC PROJECT MANAGER Z. Price	SCALE AS SHOWN		
DESIGNED BY D.S./S.L.	DATE 12/21/23		
DRAWN BY J.F.	CAD FILE -	SHEET	OF

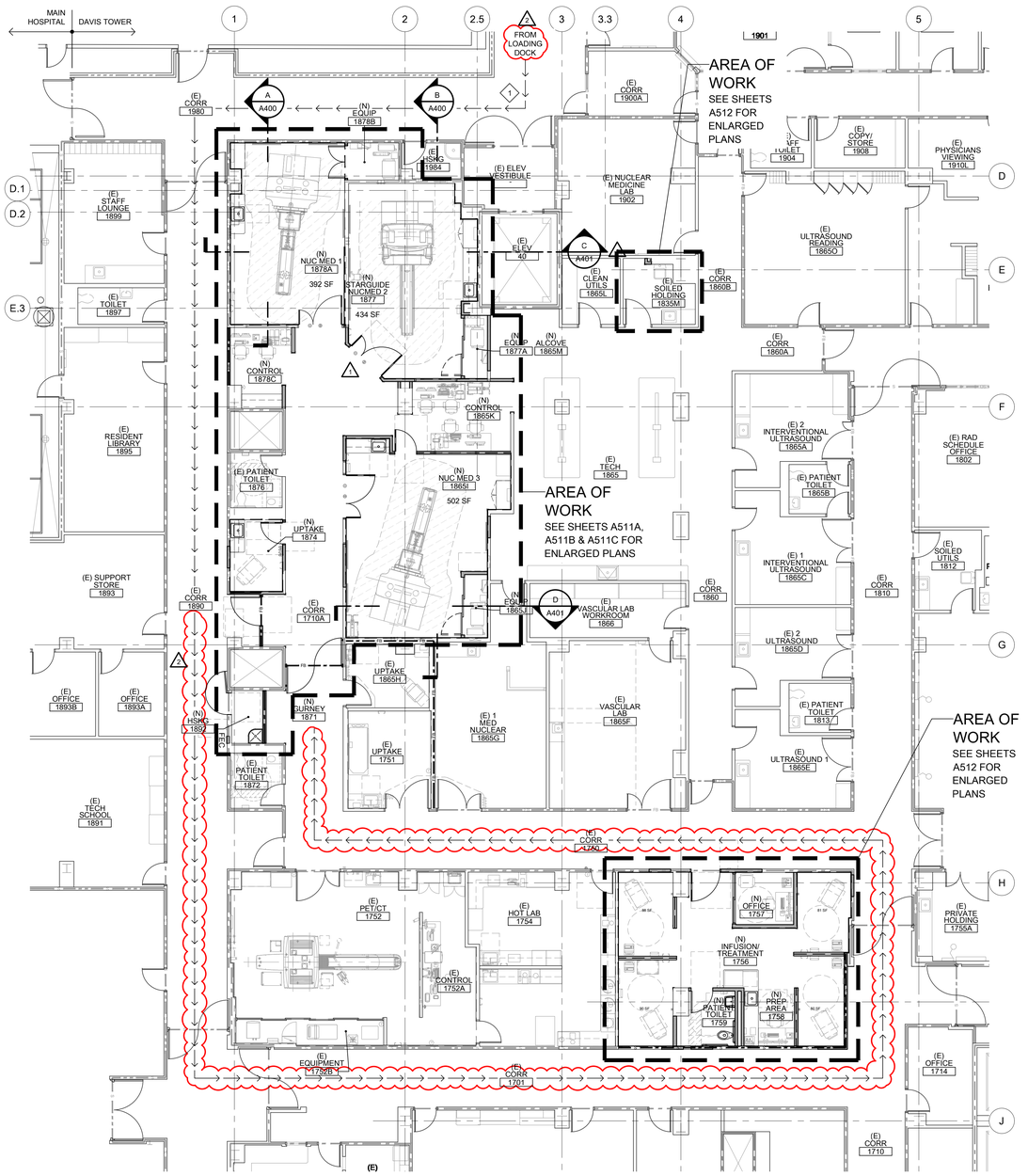
K:\Project\UCDMC\2018.00 DT1 NucMed_Infusion Room Project\Design\Drawings\A111-v2018-00.dwg, 12/5/2024 1:48:22 PM, DWG To PDF - Lines Merge.pc3



2 1ST FLOOR PLAN - DEMOLITION

SCALE: 1/8" = 1'-0"

NORTH



1 1ST FLOOR PLAN - RENOVATION

SCALE: 1/8" = 1'-0"

NORTH

SHEET NOTES:

THESE NOTES APPLY TO THIS SHEET ONLY.

1. ALL UTILITY SHUTDOWNS SHALL BE COORDINATED AND SCHEDULED WITH BUILDING FACILITIES TO MINIMIZE IMPACT TO ON-GOING BUILDING OPERATIONS. GENERAL CONTRACTOR SHALL REASONABLY ESTIMATE SHUTDOWNS THAT WILL NEED TO OCCUR OUTSIDE STANDARD WORK HOURS AND PROVIDE A CORRESPONDING ALLOWANCE FOR AFTER HOURS WORK.
2. THE DEMOLITION PLANS AND RELATED NOTES ARE GENERAL IN NATURE. THE PRIMARY PURPOSE OF THE DRAWING IS TO COMMUNICATE TO THE CONTRACTOR INFORMATION ABOUT EXISTING ELEMENTS THAT WILL REQUIRE DEMOLITION.
3. THE CONTRACTOR IS RESPONSIBLE FOR ALL INCIDENTAL WORK NECESSARY TO COMPLETE THE INSTALLATION OF NEW WORK. THIS INCLUDES, BUT IS NOT LIMITED TO, THE REMOVAL OF EXISTING PORTIONS OF CONSTRUCTION WHETHER SHOWN OR NOT.
4. GENERAL CONTRACTOR SHALL REVIEW AND VERIFY EXISTING CONDITION OF SITE PRIOR TO SUBMITTING A BID FOR THE PROJECT. GENERAL CONTRACTOR SHALL NOT BE ENTITLED TO ANY CHANGE IN CONTRACT PRICE OR TIME FOR CONDITIONS THAT COULD HAVE BEEN REASONABLY DISCOVERED PRIOR TO THE COMMENCEMENT OF DEMOLITION/CONSTRUCTION ACTIVITIES.
5. UNIVERSITY RETAINS THE RIGHT OF FIRST REFUSAL FOR ALL REMOVED ITEMS. AS DIRECTED BY UNIVERSITY DELIVER ITEMS FOR STORAGE OR DISPOSE OF REMOVED ITEMS TO A LEGAL OFF-SITE DISPOSAL FACILITY.
6. MAINTAIN ADEQUATE SITE AND BUILDING ACCESS AT ALL TIMES TO MAINTAIN LIFE/SAFETY AND CONTINUOUS TRAFFIC FLOW.
7. ITEMS AND/OR SYSTEMS TO BE ABANDONED ARE TO BE REMOVED IN TOTAL AND ANY DAMAGED SURFACE DUE TO REMOVAL ARE TO BE REPAIRED TO AN ACCEPTABLE FINISHED CONDITION.
8. SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DWGS FOR RELATED DEMOLITION WORK.
9. MAINTAIN ALL EXISTING FIRE RATED ASSEMBLIES TO PROVIDE CONTINUOUS FIRE PROTECTION. REPAIR/REPLACE ANY DAMAGED ASSEMBLIES TO MATCH (E) RATED ASSEMBLY
10. SCAN FOR ALL FLOOR PENETRATIONS, FLOOR CORES, ANCHORAGE POINTS AND PENETRATIONS PRIOR TO DOING ANY FLOOR WORK. SCAN AND MARK FLOOR FOR ALL PENETRATIONS, INCLUDING 2ND FLOOR LOCATIONS. PROVIDE TAPED GRID TO SHOW REBAR PLACEMENT, CONDUITS, ETC.

KEYNOTES:

THESE KEYNOTES APPLY TO THIS SHEET ONLY.

1. EQUIPMENT DELIVERY PATH - REVIEW DELIVERY ROUTE FROM TRUCK TO INSTALLATION SPACE, ARRANGEMENTS FOR SPECIAL HANDLING (IF NEEDED), FLOOR REINFORCEMENTS ALONG THE DELIVERY ROUTE TO SUPPORT THE WEIGHT OF THE EQUIPMENT (IF NEEDED) WITH THE BUILDING FACILITIES.

LEGEND:

- (E) WINDOW
- (E) DOOR TO REMAIN
- (E) WALL
- (E) LEAD LINED WALL
- (E) 1 HR. FIRE RATED PARTITION
- 1 (E) 1 HR. FIRE RATED BARRIER
- (E) 1 HR. SMOKE BARRIER
- (E) 2 HR. FIRE BARRIER
- (E) 4 HR. BARRIER
- DOOR — REFER TO SHEET A710 FOR ADD'L. DOOR INFO.
- WINDOW — REFER TO SHEET A710 FOR WINDOW TYPES
- LEAD FURRING OVER (E) PARTITION
- PARTITION — REFER TO SHEETS A620-A621 FOR WALL TYPE
- 1 HR. FIRE RATED PARTITION — REFER TO SHEETS A620-A621 FOR WALL TYPE
- 1 1 HR. FIRE BARRIER — REFER TO SHEETS A620-A621 FOR WALL TYPE
- 1 HR. SMOKE BARRIER — REFER TO SHEETS A620-A621 FOR WALL TYPE
- FIRE EXTINGUISHER CABINET, REFER TO DTL. 2/A640 (FEC)
- AREA OF WORK

KEYPLAN

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LICENSED ARCHITECT JOHN M. FLATH No. C-21990 RENEWAL 12-31-25 STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

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(916)734-7934

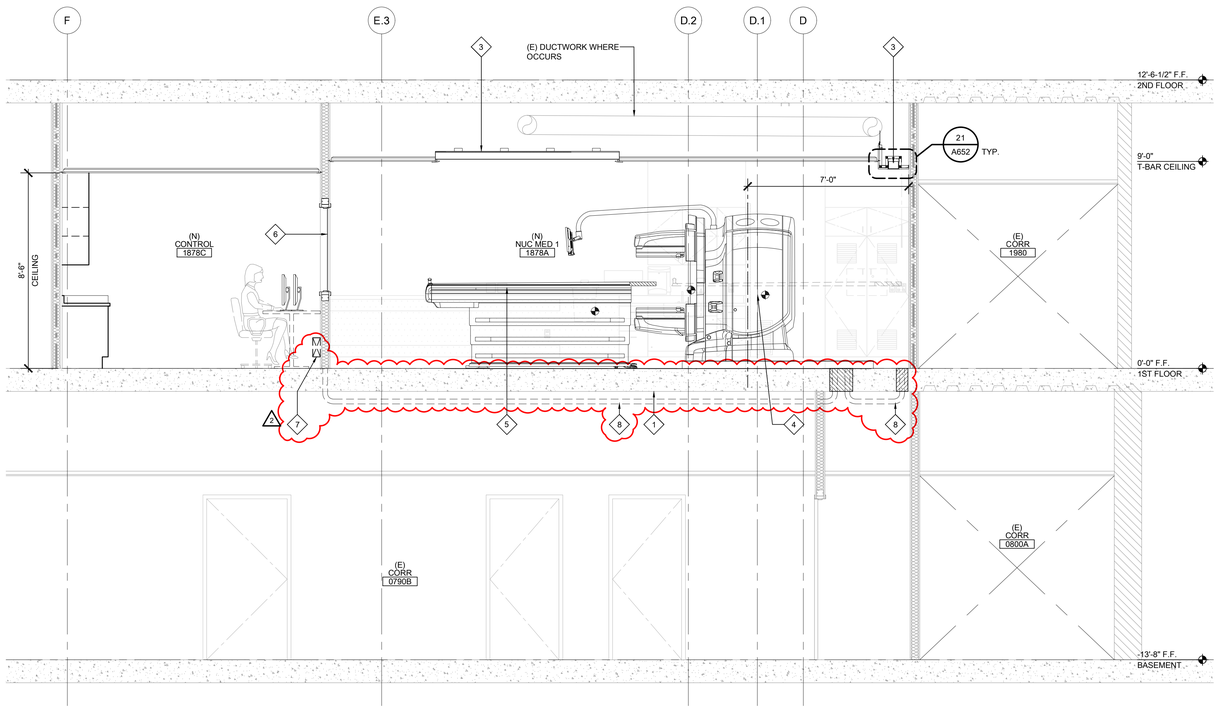
CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
1	HCAI BACKCHECK 01	5/17/2024
2	BID ADDENDA	12/6/2024

CONSTRUCTION DOCUMENTS

ACCOUNT NO. 9557570
OSHPD NO. S240360-34-00
BUILDING: DAVIS TOWER, UNIVERSITY OF CA DAVIS, MEDICAL CENTER
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: DT 1ST FLR RAD NUCLEAR MEDICINE REMODEL
SHEET TITLE: PARTIAL 1ST FLOOR PLANS

ARCH./ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath	-	A111
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN	
DESIGNED BY: D.S./S.L.	DATE: 12/21/23	
DRAWN BY: J.F.	CAD FILE: -	SHEET / OF



A SECTION - NUC MED 1
SCALE: 3/8" = 1'-0"

SHEET NOTES:

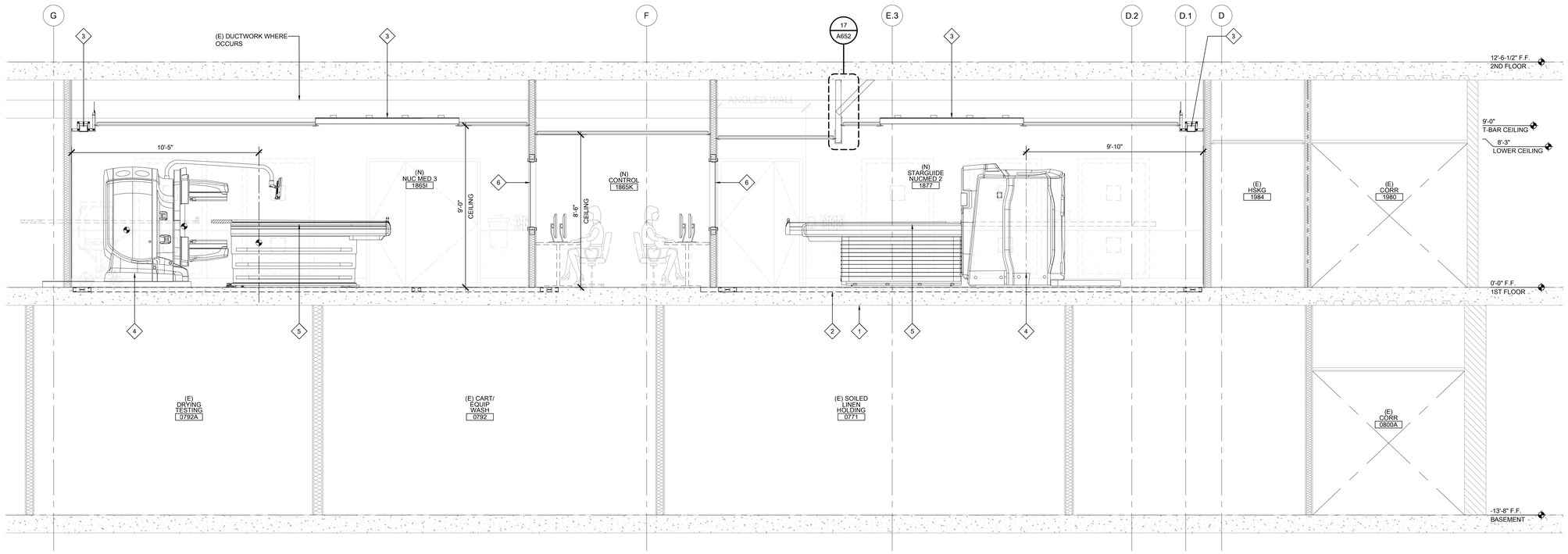
THESE NOTES APPLY TO THIS SHEET ONLY.

1. THE CONTRACTOR IS RESPONSIBLE FOR ALL INCIDENTAL WORK NECESSARY TO COMPLETE THE INSTALLATION OF NEW WORK. THIS INCLUDES, BUT IS NOT LIMITED TO THE REMOVAL OF EXISTING PORTIONS OF CONSTRUCTION WHETHER SHOWN OR NOT.
2. TEMPORARY CONSTRUCTION BARRIER WALLS WILL BE REQUIRED AT VARIOUS TIMES DURING THE STAGES OF WORK. COORDINATE WITH FACILITY ENGINEER TO DETERMINE THE TIMING OR SEQUENCE OF WHEN THE BARRIER WALLS WILL BE REQUIRED IN RELATIONSHIP TO THE STAGING OF WORK.
3. COORDINATE WITH THE FACILITY ENGINEER FOR ESTABLISHING TEMPORARY DUST BARRIERS BETWEEN AREAS BEING RENOVATED AND THOSE AREAS REMAINING OCCUPIED DURING RENOVATION WORK.
4. SEE SHEETS A831 - A833 FOR EQUIPMENT PLAN AND SCHEDULE.
5. SEE SHEET A811 & A821 FOR FLOOR FINISH PLAN AND FINISH SCHEDULE.

KEYNOTES:

THESE KEYNOTES APPLY TO THIS SHEET ONLY.

1. (E) CONC. FLOOR W/ TOPPING SLAB - SEE STRUCT. DWGS. F.A.I.
2. TRENCH DUCT - SEE GE DWGS. & ELEC. DWGS. F.A.I.
3. SPECIALTY LED LIGHT FIXTURE BY PDC - REFER TO PDC DWGS. F.A.I.
4. GE CAMERA/EQUIPMENT - SEE STRUCT. DWGS. FOR ANCHORAGE.
5. GE PATIENT TABLE - SEE STRUCT. DWGS. FOR ANCHORAGE.
6. NEW LEADED GLASS WINDOW/FRAME - SEE SHEET A710 F.A.I.
7. SURFACE WALL DUCT - SEE ELEC. DWGS. F.A.I.
8. CONDUIT BELOW - SEE ELEC. DWGS. F.A.I.



B SECTION - NUC MED 2 & 3
SCALE: 3/8" = 1'-0"

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600 Q Street, Suite 100
Sacramento, CA 95811
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4800 2nd Avenue Suite 3010
Sacramento, California 95817
(916)734-7024

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
2	BID ADDENDA	12/6/2024

CONSTRUCTION DOCUMENTS

ACCOUNT NO.: 9557570
OSHPH NO.: S240360-34-00
BUILDING: DAVIS TOWER, UNIVERSITY OF CA DAVIS, MEDICAL CENTER
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: DT 1ST FLR RAD NUCLEAR MEDICINE REMODEL
SHEET TITLE: SECTIONS

ARCH\ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath	-	A400
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN	
DESIGNED BY: D.S./S.L.	DATE: 12/21/23	
DRAWN BY: J.F.	CAD FILE: -	SHEET / OF

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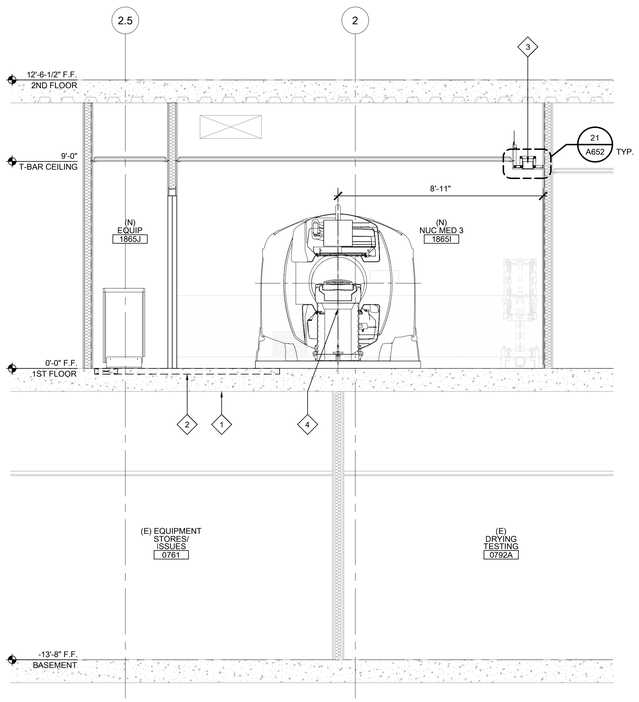
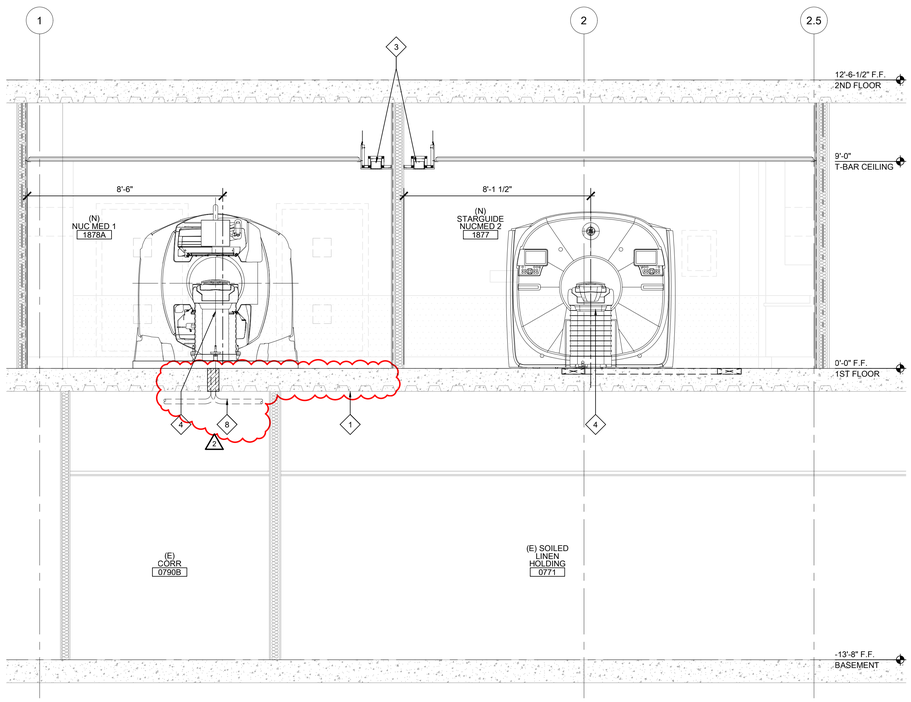


D SECTION - NUC MED 2

SCALE: 3/8" = 1'-0"



C SECTION - NUC MED 1 & 3

SCALE: 3/8" = 1'-0"

SHEET NOTES:

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1. THE CONTRACTOR IS RESPONSIBLE FOR ALL INCIDENTAL WORK NECESSARY TO COMPLETE THE INSTALLATION OF NEW WORK. THIS INCLUDES, BUT IS NOT LIMITED TO THE REMOVAL OF EXISTING PORTIONS OF CONSTRUCTION WHETHER SHOWN OR NOT.
2. TEMPORARY CONSTRUCTION BARRIER WALLS WILL BE REQUIRED AT VARIOUS TIMES DURING THE STAGES OF WORK. COORDINATE WITH FACILITY ENGINEER TO DETERMINE THE TIMING OR SEQUENCE OF WHEN THE BARRIER WALLS WILL BE REQUIRED IN RELATIONSHIP TO THE STAGING OF WORK.
3. COORDINATE WITH THE FACILITY ENGINEER FOR ESTABLISHING TEMPORARY DUST BARRIERS BETWEEN AREAS BEING RENOVATED AND THOSE AREAS REMAINING OCCUPIED DURING RENOVATION WORK.
4. SEE SHEETS A831 - A833 FOR EQUIPMENT PLAN AND SCHEDULE.
5. SEE SHEET A811 & A821 FOR FLOOR FINISH PLAN AND FINISH SCHEDULE.

KEYNOTES:

THESE KEYNOTES APPLY TO THIS SHEET ONLY.

1. (E) CONC. FLOOR W/ TOPPING SLAB - SEE STRUCT. DWGS. F.A.I.
2. TRENCH DUCT - SEE GE DWGS. & ELEC. DWGS. F.A.I.
3. SPECIALTY LED LIGHT FIXTURE BY PDC - REFER TO PDC DWGS. F.A.I.
4. GE CAMERA/EQUIPMENT - SEE STRUCT. DWGS. FOR ANCHORAGE.
5. GE PATIENT TABLE - SEE STRUCT. DWGS. FOR ANCHORAGE.
6. NEW LEADED GLASS WINDOW/FRAME - SEE SHEET A710 F.A.I.
7. SURFACE WALL DUCT - SEE ELEC. DWGS. F.A.I.
8. CONDUIT BELOW - SEE ELEC. DWGS. F.A.I.

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(916)734-7934

CONSULTANT LOGO:

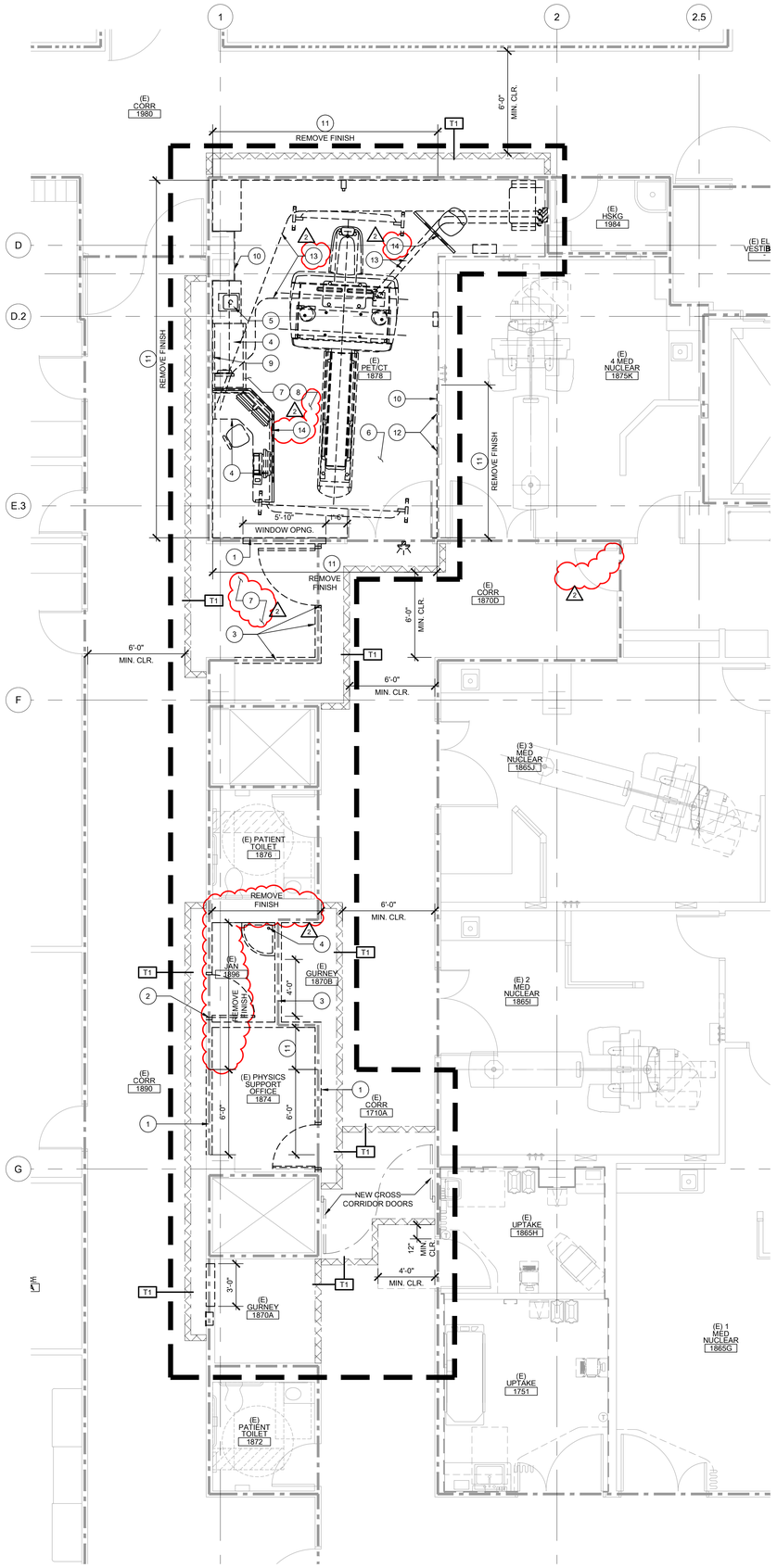
REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

ACCOUNT NO.: 9557570
OSHPD NO.: S240360-34-00
BUILDING: DAVIS TOWER, UNIVERSITY OF CA DAVIS, MEDICAL CENTER
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: DT 1ST FLR RAD NUCLEAR MEDICINE REMODEL
SHEET TITLE: SECTIONS

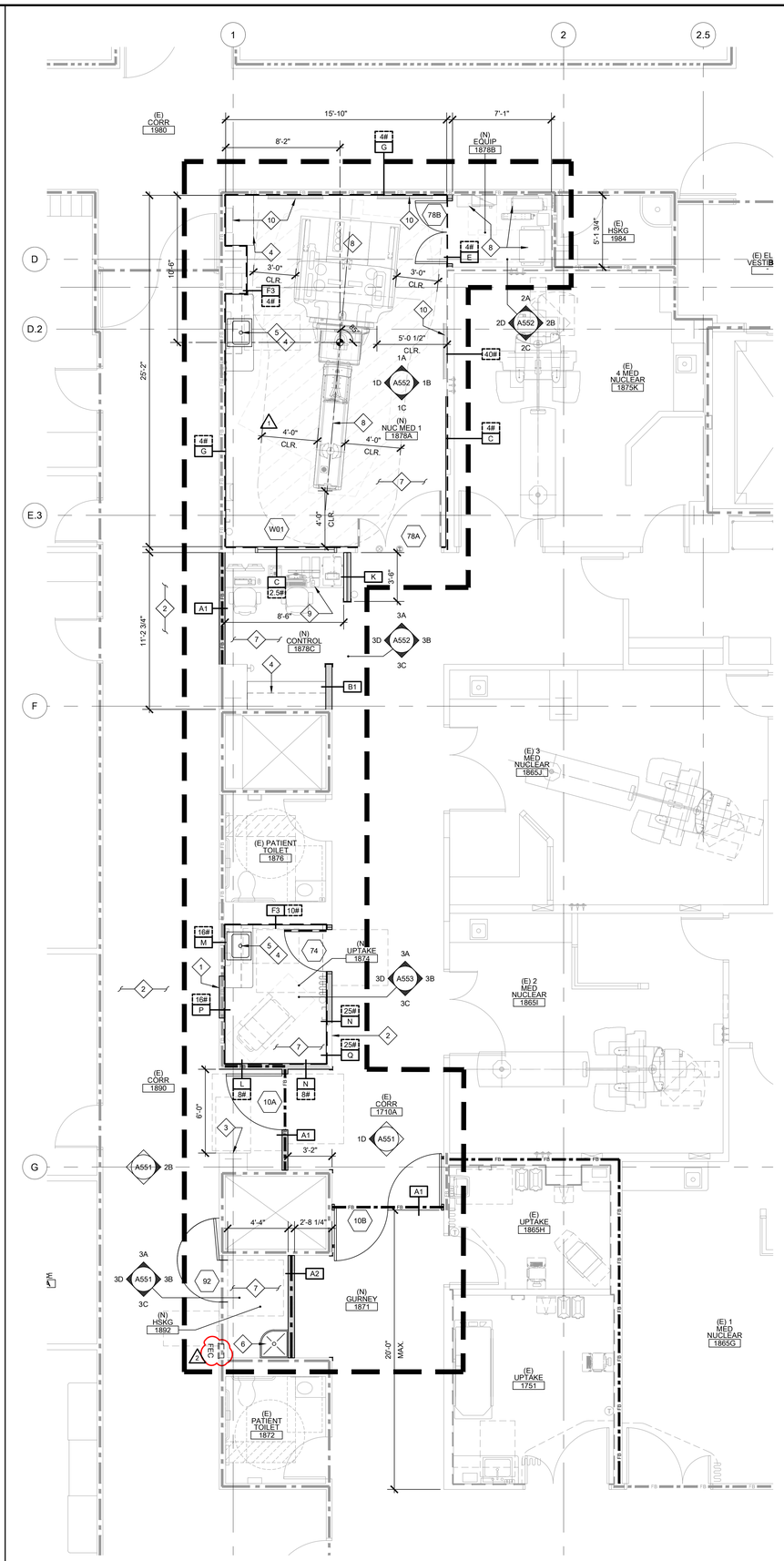
ARCH./ENGR.: J. Flath	FD&C JOB NO.: -	SHEET NO.: A401	
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN		
DESIGNED BY: D.S./S.L.	DATE: 12/21/23		
DRAWN BY: J.F.	CAD FILE: -	SHEET	OF

K:\Project\UCDMC\2018.00 DTI NucMed_Infusion Room Project\Design\Drawings\A511A-2018-00.dwg, 12/5/2024 2:40:01 PM, DWG To PDF - Lines Merge.pc3



AREA A - PHASE 1 DEMOLITION

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



AREA A - PHASE 1 RENOVATION

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

SHEET NOTES:

THESE NOTES APPLY TO THIS SHEET ONLY.

1. THE CONTRACTOR IS RESPONSIBLE FOR ALL INCIDENTAL WORK NECESSARY TO COMPLETE THE INSTALLATION OF NEW WORK. THIS INCLUDES, BUT IS NOT LIMITED TO THE REMOVAL OF EXISTING PORTIONS OF CONSTRUCTION WHETHER SHOWN OR NOT.
2. TEMPORARY CONSTRUCTION BARRIER WALLS WILL BE REQUIRED AT VARIOUS TIMES DURING THE STAGES OF WORK. COORDINATE WITH FACILITY ENGINEER TO DETERMINE THE TIMING OR SEQUENCE OF WHEN THE BARRIER WALLS WILL BE REQUIRED IN RELATIONSHIP TO THE STAGING OF WORK.
3. COORDINATE WITH THE FACILITY ENGINEER FOR ESTABLISHING TEMPORARY DUST BARRIERS BETWEEN AREAS BEING RENOVATED AND THOSE AREAS REMAINING OCCUPIED DURING RENOVATION WORK.
4. SEE SHEETS A831 - A833 FOR EQUIPMENT PLAN AND SCHEDULE.
5. SEE SHEET A811& A821 FOR FLOOR FINISH PLAN AND FINISH SCHEDULE.
6. EXISTING RADIOLOGY EQUIPMENT TO BE REMOVED BY OWNER'S VENDOR. △1

RENOVATION KEYNOTES:

THESE KEYNOTES APPLY TO THIS SHEET ONLY.

1. UPDATE MTL. STUD FRAMING AND FINISH TO MATCH (E) ADJACENT WALL RATING AS REQ'D.
2. PATCH & REPAIR TO MATCH ADJACENT SURFACE AS REQ'D.
3. CARD READER, PROVIDE CLEAR SPACE OF 30" X 48" WITH A MAXIMUM REACH OF 48" AFF.
4. CASEWORK, SEE INTERIOR ELEVATIONS F.A.I.
5. HANDWASH FIXTURE W/ HOT & COLD MIXING FAUCET, SEE PLUMB. DWGS. F.A.I.
6. SERVICE SINK, SEE PLUMB. DWGS. F.A.I.
7. (N) FLOORING AND BASE. SEE FINISH PLAN & SCHEDULE ON SHEETS A811 & A821 F.A.I.
8. (N) EQUIPMENT, PROVIDE STRUCT. FRAMING / BACKING / SEISMIC BRACING AS REQ'D.
9. (N) FURNISHINGS, O.F.O.I.
10. AMBIENT PATIENT LED LIGHTING SYSTEM, SEE ELEC. DWGS. F.A.I.
11. (N) MOBILE RECLINER CHAIR, O.F.O.I.

DEMOLITION KEYNOTES:

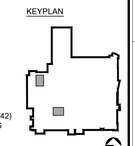
THESE KEYNOTES APPLY TO THIS SHEET ONLY.

1. DEMOLISH PORTION OF (E) WALL FOR NEW OPENING.
2. REMOVE (E) DOOR, FRAME AND HARDWARE TO INFILL OPENING
3. DEMOLISH (E) WALLS, DOORS AND PLAN ITEMS
4. REMOVE (E) CASEWORK, COUNTERTOPS & UPPER CABINETS
5. DEMOLISH (E) SINK & RELOCATE ASSOCIATED PLUMBING TO NEW SINK. SEE PLUMB. DWGS. F.A.I.
6. SCAN FLOOR AND REMOVE TOPPING SLAB TO ACCOMMODATE FLOOR CONDUIT & PENETRATIONS SEE GE DWGS. & ELEC. DWGS. F.A.I. △2
7. REMOVE (E) WALL BUMPERS, FLOORING, AND BASE. PREPARE SUBSTRATE FOR NEW FINISHES.
8. REMOVE / RELOCATE (E) FURNISHINGS & EQUIPMENT AS REQ'D.
9. (E) MEDGAS OUTLETS TO REMAIN
10. (E) WALL HVAC REGISTER TO REMAIN
11. REMOVE (E) GYP. BD ON THE PROCEDURE ROOM SIDE UP TO 7'-0". LEAD ABATEMENT AS REQ'D.
12. (E) PANELS TO REMAIN, REMOVE & REINSTALL AS REQ'D.
13. (E) FLOOR CONDUIT & PENETRATIONS TO BE REMOVED. PATCH & REPAIR SLAB AS REQ'D. SEE DTLS. 6.7/A640 F.A.I.
14. DEMOLISH (E) LEADED GLASS/PARTITION. LEAD ABATEMENT AS REQ'D. △2

LEGEND:

- (E) WINDOW TO BE REMOVED
- (E) DOOR TO BE REMOVED
- (E) PARTITION TO BE REMOVED
- (E) DOOR TO REMAIN
- (E) WALL
- (E) LEAD LINED WALL
- (E) 1 HR. FIRE RATED PARTITION
- △1 (E) 1 HR. FIRE RATED BARRIER
- (E) 1 HR. SMOKE BARRIER
- (E) 2 HR. FIRE BARRIER
- (E) 4 HR BARRIER
- 00 DOOR — REFER TO SHEET A710 FOR ADD'L. DOOR INFO.
- W00 WINDOW — REFER TO SHEET A710 FOR WINDOW TYPES
- PARTIAL HEIGHT LEADED WALL W/ GLAZING — SEE SHEET A620 FOR WALL TYPE & DTL. 30/A821 F.A.I.
- LEAD PARTITION / LEAD WEIGHT — REFER TO SHEETS A620-A621 FOR WALL TYPE
- PARTITION — REFER TO SHEETS A620-A621 FOR WALL TYPE
- 1 HR. FIRE RATED PARTITION △1 — REFER TO SHEETS A620-A621 FOR WALL TYPE
- △1 1 HR. FIRE RATED BARRIER — REFER TO SHEETS A620-A621 FOR WALL TYPE
- FEC FIRE EXTINGUISHER CABINET — REFER TO DTL. 2/A640
- AREA OF WORK
- X △1 1HR-RATED TEMP. CONSTRUCTION BARRIER: FIREBLOCK WALL BY STARC SYSTEMS (OPM-0642) OR EQUAL. REMOVE AFTER DUST GENERATING WORK IS COMPLETE.

KEYPLAN



DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

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600 Q Street, Suite 100
Sacramento, CA 95811
www.nachtlewis.com
916.329.4000

LICENSED ARCHITECT JOHN F. FLATH No. C-21890 REN. 12-31-25 STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE SUITE 3010
SACRAMENTO, CALIFORNIA 95817
(916)734-7934

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
1	HCAI BACKCHECK 01	5/17/2024
2	BID ADDENDA	12/6/2024

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OSHPD NO: S240360-34-00
BUILDING: DAVIS TOWER, UNIVERSITY OF CA DAVIS, MEDICAL CENTER
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PROJECT TITLE: DT 1ST FLR RAD NUCLEAR MEDICINE REMODEL
SHEET TITLE: AREA A - PHASE 1 - 1ST FLOOR DEMOLITION & RENOVATION PLANS

ARCH / ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath	-	A511A
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN	
DESIGNED BY: D.S./S.L.	DATE: 12/21/23	
DRAWN BY: J.F.	CAD FILE: -	SHEET / OF

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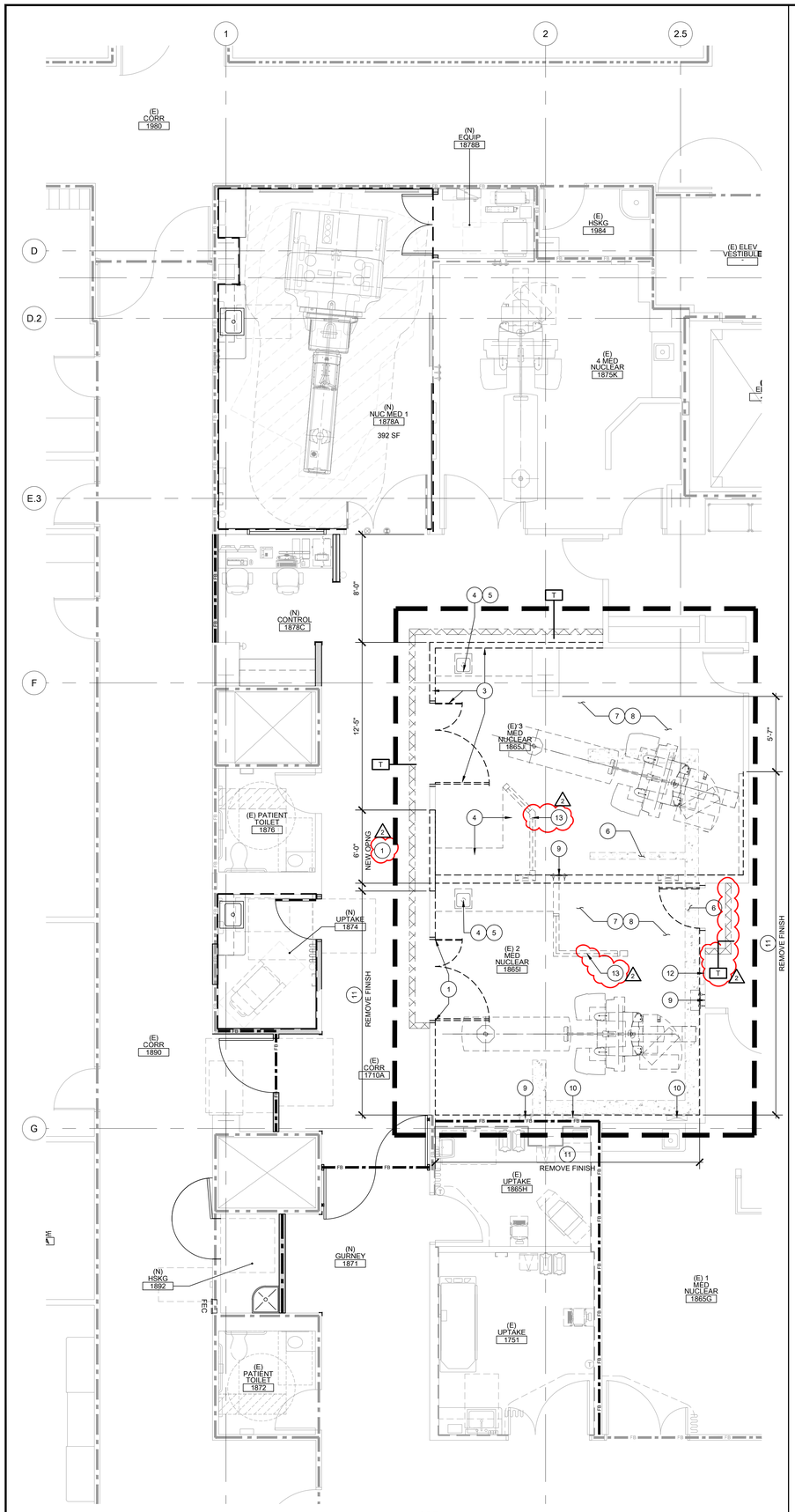
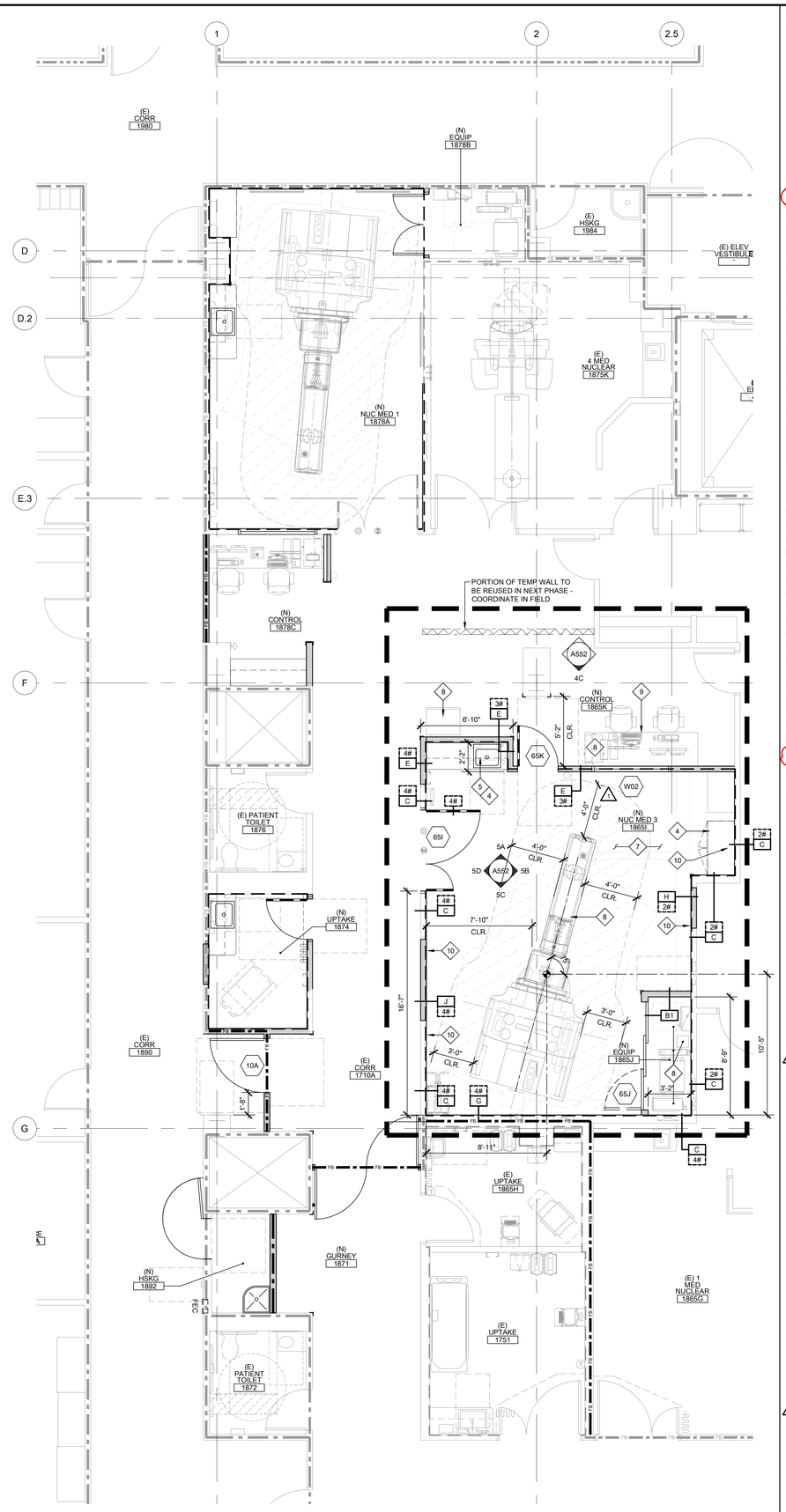


2 AREA A - PHASE 2 DEMOLITION

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

NORTH



1 AREA A - PHASE 2 RENOVATION

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

NORTH

SHEET NOTES:

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3. COORDINATE WITH THE FACILITY ENGINEER FOR ESTABLISHING TEMPORARY DUST BARRIERS BETWEEN AREAS BEING RENOVATED AND THOSE AREAS REMAINING OCCUPIED DURING RENOVATION WORK.
4. SEE SHEETS A831 - A833 FOR EQUIPMENT PLAN AND SCHEDULE.
5. SEE SHEET A811& A821 FOR FLOOR FINISH PLAN AND FINISH SCHEDULE.
6. EXISTING RADIOLOGY EQUIPMENT TO BE REMOVED BY OWNER'S VENDOR. 2

RENOVATION KEYNOTES:

THESE KEYNOTES APPLY TO THIS SHEET ONLY.

1. UPDATE MTL. STUD FRAMING AND FINISH TO MATCH (E) ADJACENT WALL RATING AS REQ'D.
2. PATCH & REPAIR TO MATCH ADJACENT SURFACE AS REQ'D.
3. CARD READER, PROVIDE CLEAR SPACE OF 30" X 48" WITH A MAXIMUM REACH OF 48" AFF.
4. CASEWORK, SEE INTERIOR ELEVATIONS F.A.I.
5. HANDWASH FIXTURE W/ HOT & COLD MIXING FAUCET, SEE PLUMB. DWGS. F.A.I.
6. NOT USED.
7. (N) FLOORING AND BASE. SEE FINISH PLAN & SCHEDULE ON SHEETS A811 & A821 F.A.I.
8. (N) EQUIPMENT, PROVIDE STRUCT. FRAMING / BACKING / SEISMIC BRACING AS REQ'D.
9. (N) FURNISHINGS, O.F.O.I.
10. AMBIENT PATIENT LED LIGHTING SYSTEM, SEE ELEC. DWGS. F.A.I.

DEMOLITION KEYNOTES:

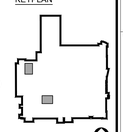
THESE KEYNOTES APPLY TO THIS SHEET ONLY.

1. DEMOLISH PORTION OF (E) WALL FOR NEW OPENING.
2. NOT USED.
3. DEMOLISH (E) WALLS, DOORS AND PLAN ITEMS. LEAD ABATEMENT AS REQ'D. 2
4. REMOVE (E) CASEWORK, COUNTERTOPS & UPPER CABINETS
5. DEMOLISH (E) SINK & RELOCATE ASSOCIATED PLUMBING TO NEW SINK. SEE PLUMB. DWGS. F.A.I.
6. SCAN FLOOR AND REMOVE TOPPING SLAB TO ACCOMMODATE TRENCH DUCT. SEE GE DWGS. & ELEC. DWGS. F.A.I.
7. REMOVE (E) WALL BUMPERS, FLOORING, AND BASE. PREPARE SUBSTRATE FOR NEW FINISHES.
8. REMOVE / RELOCATE (E) FURNISHINGS & EQUIPMENT AS REQ'D.
9. (E) MEDGAS OUTLETS TO REMAIN. SEE PLUMB. DWGS. F.A.I.
10. (E) WALL HVAC REGISTER TO REMAIN
11. REMOVE (E) GYP. BD ON THE PROCEDURE ROOM SIDE UP TO 7'-0". LEAD ABATEMENT AS REQ'D.
12. (E) ELEC. PANEL TO REMAIN. SEE ELEC. DWGS. F.A.I.
13. DEMOLISH (E) LEADED GLASS/PARTITION. LEAD ABATEMENT AS REQ'D. 2

LEGEND:

- (E) WINDOW TO BE REMOVED
- (E) DOOR TO BE REMOVED
- (E) PARTITION TO BE REMOVED
- (E) DOOR TO REMAIN
- (E) WALL
- (E) LEAD LINED WALL
- (E) 1 HR. FIRE RATED PARTITION
- 1 (E) 1 HR. FIRE RATED BARRIER
- (E) 1 HR. SMOKE BARRIER
- (E) 2 HR. FIRE BARRIER
- (E) 4 HR BARRIER
- 00 DOOR — REFER TO SHEET A710 FOR ADD'L. DOOR INFO.
- W00 WINDOW — REFER TO SHEET A710 FOR WINDOW TYPES
- PARTIAL HEIGHT LEADED WALL W/ GLAZING — SEE SHEET A620 FOR WALL TYPE & DTL. 30/A821 F.A.I.
- LEAD PARTITION / LEAD WEIGHT — REFER TO SHEETS A620-A621 FOR WALL TYPE
- PARTITION — REFER TO SHEETS A620-A621 FOR WALL TYPE
- 1 HR. FIRE RATED PARTITION — REFER TO SHEETS A620-A621 FOR WALL TYPE
- 1 1 HR. FIRE RATED BARRIER — REFER TO SHEETS A620-A621 FOR WALL TYPE
- FEC FIRE EXTINGUISHER CABINET — REFER TO DTL. 2/A640
- AREA OF WORK
- 1HR-RATED TEMP. CONSTRUCTION BARRIER: FIREBLOCK WALL BY STARC SYSTEMS (OPNI-0642) OR EQUAL. REMOVE AFTER DUST GENERATING WORK IS COMPLETE. 1

KEYPLAN



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www.nachtlewis.com
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DESIGN PROFESSIONALS OF RECORD:

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SACRAMENTO, CALIFORNIA 95817
(916)734-7934

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
1	HCAI BACKCHECK 01	5/17/2024
2	BID ADDENDA	12/6/2024

CONSTRUCTION DOCUMENTS

PROJECT NO.: 9557570
OSHPD NO.: S240360-34-00
BUILDING: DAVIS TOWER, UNIVERSITY OF CA DAVIS, MEDICAL CENTER
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: DT 1ST FLR RAD NUCLEAR MEDICINE REMODEL
SHEET TITLE: AREA A - PHASE 2 - 1ST FLOOR DEMOLITION & RENOVATION PLANS

ARCH \ ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath	-	A511B
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN	
DESIGNED BY: D.S./S.L.	DATE: 12/21/23	
DRAWN BY: J.F.	CAD FILE: -	SHEET / OF

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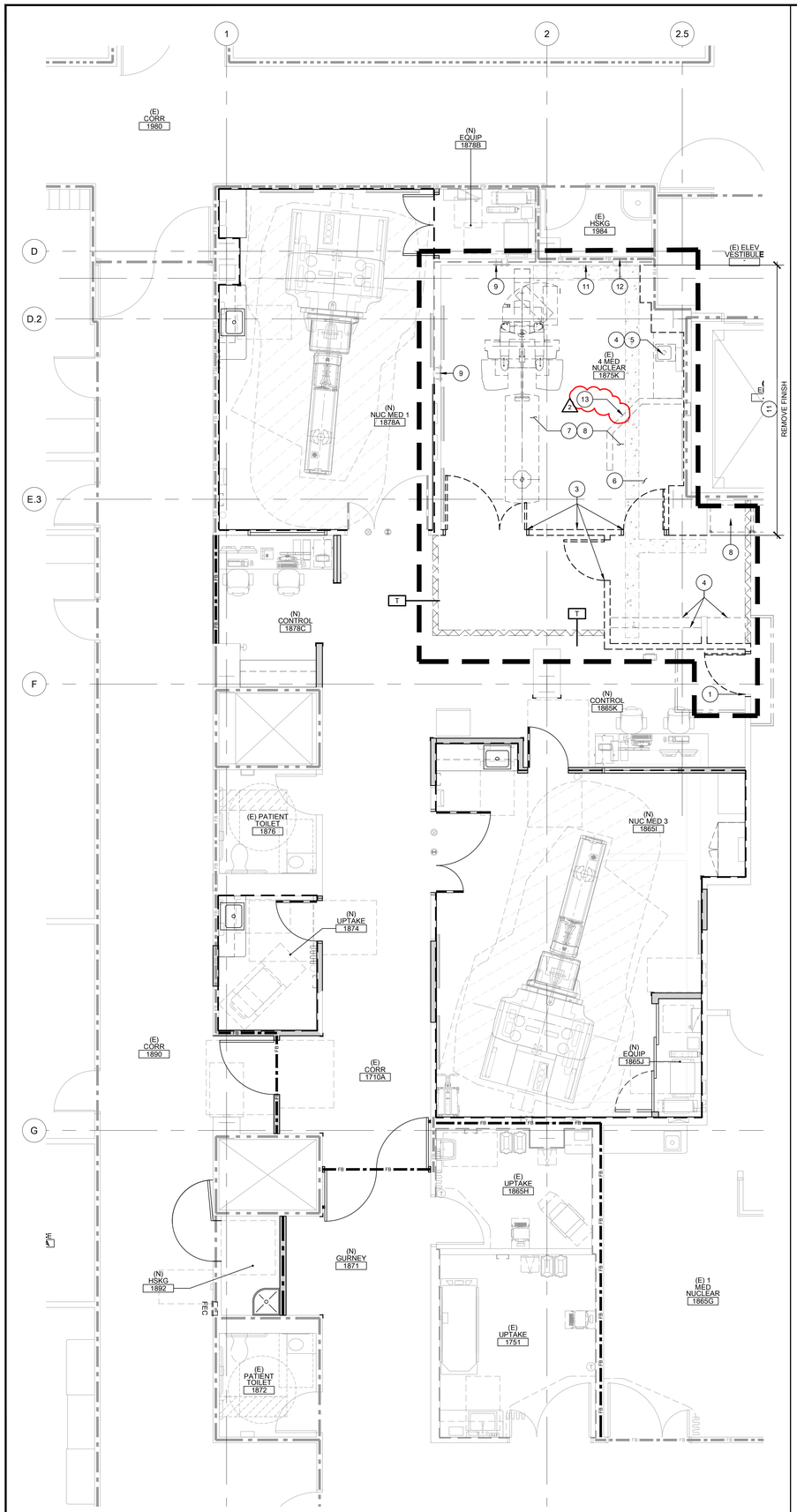
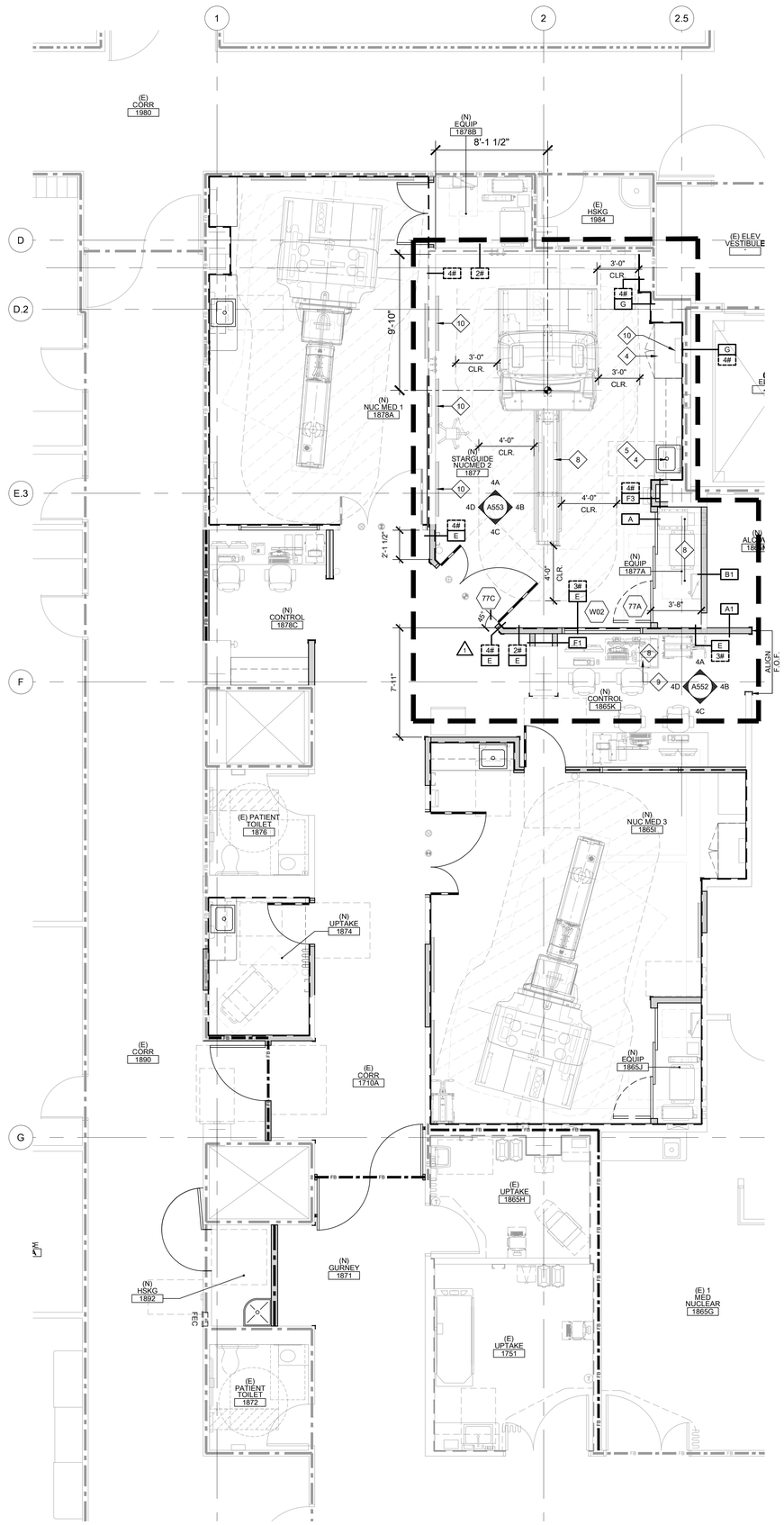


2 AREA A -PHASE 3 DEMOLITION

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

NORTH



1 AREA A -PHASE 3 RENOVATION

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

NORTH

SHEET NOTES:

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1. THE CONTRACTOR IS RESPONSIBLE FOR ALL INCIDENTAL WORK NECESSARY TO COMPLETE THE INSTALLATION OF NEW WORK. THIS INCLUDES, BUT IS NOT LIMITED TO THE REMOVAL OF EXISTING PORTIONS OF CONSTRUCTION WHETHER SHOWN OR NOT.
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3. COORDINATE WITH THE FACILITY ENGINEER FOR ESTABLISHING TEMPORARY DUST BARRIERS BETWEEN AREAS BEING RENOVATED AND THOSE AREAS REMAINING OCCUPIED DURING RENOVATION WORK.
4. SEE SHEETS A831 - A833 FOR EQUIPMENT PLAN AND SCHEDULE.
5. SEE SHEET A811& A821 FOR FLOOR FINISH PLAN AND FINISH SCHEDULE.
6. EXISTING RADIOLOGY EQUIPMENT TO BE REMOVED BY OWNER'S VENDOR. 1

RENOVATION KEYNOTES:

THESE KEYNOTES APPLY TO THIS SHEET ONLY.

1. UPDATE MTL. STUD FRAMING AND FINISH TO MATCH (E) ADJACENT WALL RATING AS REQ'D.
2. PATCH & REPAIR TO MATCH ADJACENT SURFACE AS REQ'D.
3. NOT USED.
4. CASEWORK, SEE INTERIOR ELEVATIONS F.A.I.
5. HANDWASH FIXTURE W/ HOT & COLD MIXING FAUCET, SEE PLUMB. DWGS. F.A.I.
6. NOT USED.
7. (N) FLOORING AND BASE. SEE FINISH PLAN & SCHEDULE ON SHEETS A811 & A821 F.A.I.
8. (N) EQUIPMENT, PROVIDE STRUCT. FRAMING / BACKING / SEISMIC BRACING AS REQ'D.
9. (N) FURNISHINGS, O.F.O.I.
10. AMBIENT PATIENT LED LIGHTING SYSTEM, SEE ELEC. DWGS. F.A.I.

DEMOLITION KEYNOTES:

THESE KEYNOTES APPLY TO THIS SHEET ONLY.

1. REMOVE (E) DOOR, FRAME AND HARDWARE.
2. NOT USED.
3. DEMOLISH (E) WALLS, DOORS AND PLAN ITEMS. LEAD ABATEMENT AS REQ'D. 2
4. REMOVE (E) CASEWORK, COUNTERTOPS & UPPER CABINETS
5. DEMOLISH (E) SINK & RELOCATE ASSOCIATED PLUMBING TO NEW SINK. SEE PLUMB. DWGS. F.A.I.
6. SCAN FLOOR AND REMOVE TOPPING SLAB TO ACCOMMODATE TRENCH DUCT. SEE GE DWGS. & ELEC. DWGS. F.A.I.
7. REMOVE (E) WALL BUMPERS, FLOORING, AND BASE. PREPARE SUBSTRATE FOR NEW FINISHES.
8. REMOVE / RELOCATE (E) FURNISHINGS & EQUIPMENT AS REQ'D.
9. (E) MEDGAS OUTLETS TO REMAIN/RELOCATE. SEE PLUMB. DWGS. F.A.I.
10. (E) WALL HVAC REGISTER TO REMAIN
11. REMOVE (E) GYP. BD ON THE PROCEDURE ROOM SIDE UP TO 7'-0". LEAD ABATEMENT AS REQ'D.
12. (E) ELEC. PANEL TO REMAIN. SEE ELEC. DWGS. F.A.I.
13. DEMOLISH (E) LEADED GLASS/PARTITION. LEAD ABATEMENT AS REQ'D. 2

LEGEND:

- (E) WINDOW TO BE REMOVED
- (E) DOOR TO BE REMOVED
- (E) PARTITION TO BE REMOVED
- (E) DOOR TO REMAIN
- (E) WALL
- (E) LEAD LINED WALL
- (E) 1 HR. FIRE RATED PARTITION
- (E) 1 HR. FIRE RATED BARRIER
- (E) 1 HR. SMOKE BARRIER
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- FIRE EXTINGUISHER CABINET — REFER TO DTL. 2/A640
- AREA OF WORK
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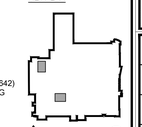
- NON-RATED TEMP. CONSTRUCTION BARRIER: REAL WALL BY STARC SYSTEMS OR EQUAL. REMOVE AFTER DUST GENERATING WORK IS COMPLETE.

KEYPLAN



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LICENSED ARCHITECT JOHN M. FAY No. C-21990 12-31-25 STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

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FACILITIES DESIGN & CONSTRUCTION
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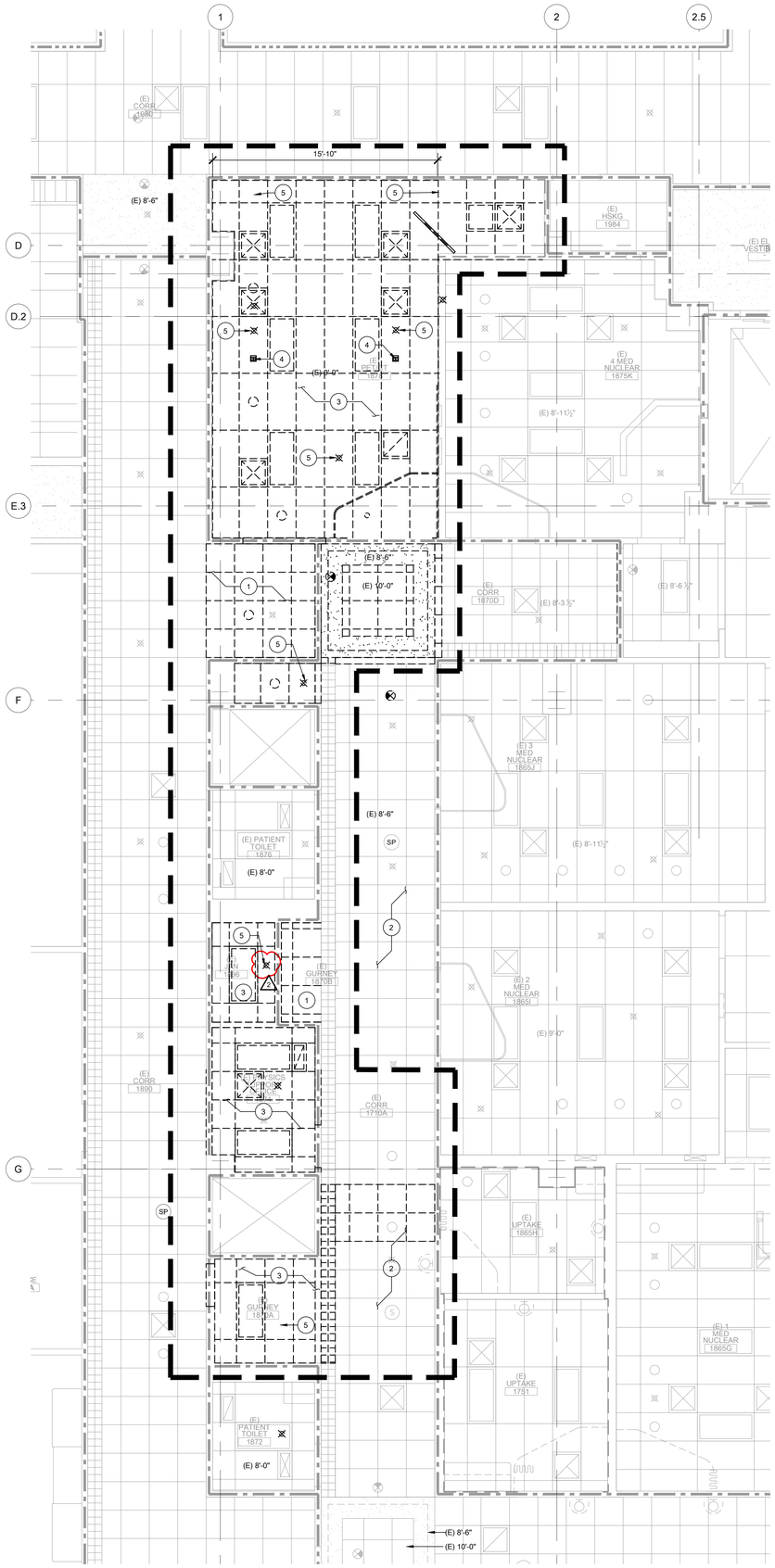
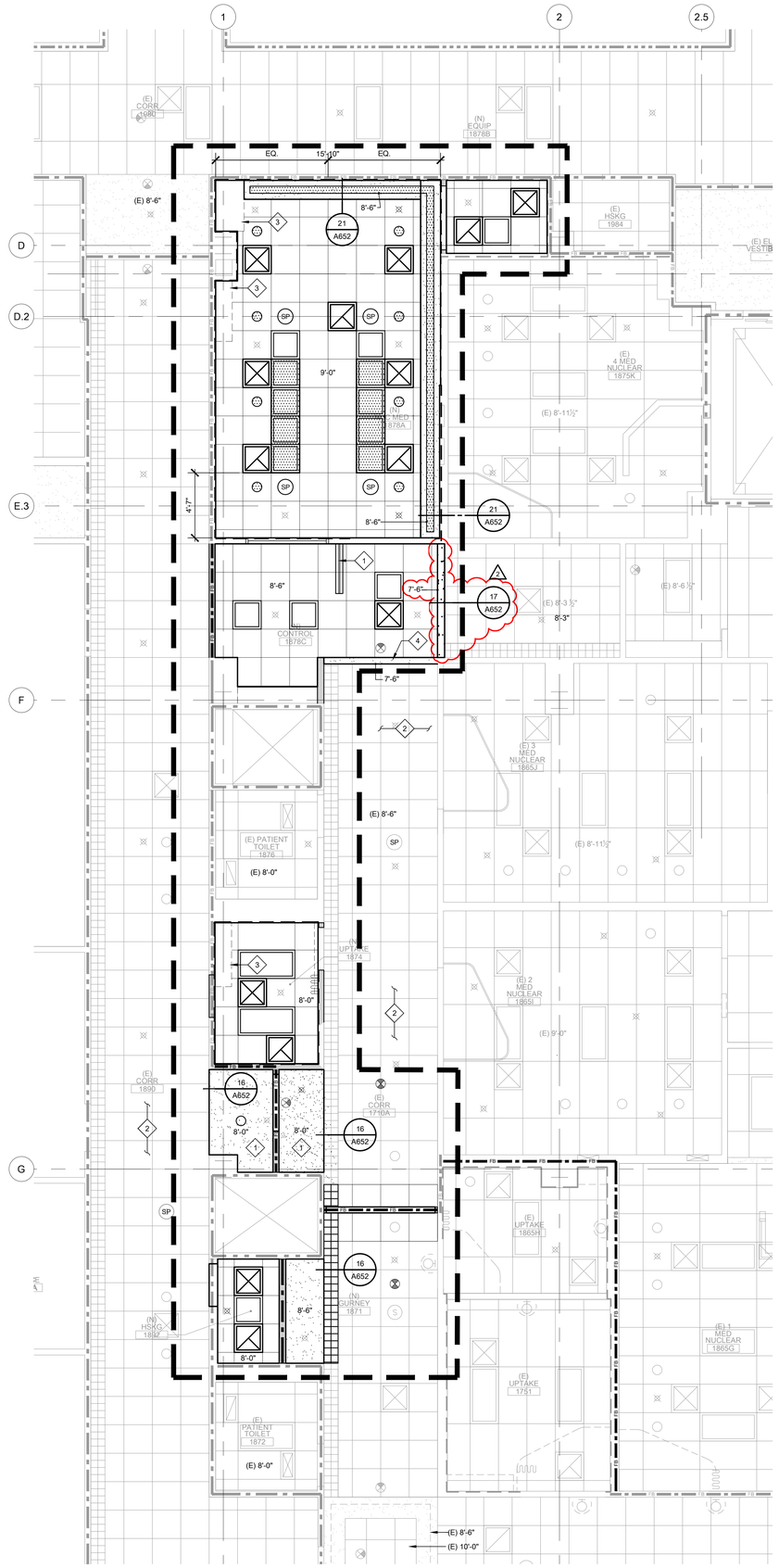


2 1ST FLOOR RCP - DEMOLITION

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

NORTH



1 1ST FLOOR RCP - RENOVATION

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

NORTH

SHEET NOTES:

THESE NOTES APPLY TO THIS SHEET ONLY.

1. THE CONTRACTOR IS RESPONSIBLE FOR ALL INCIDENTAL WORK NECESSARY TO COMPLETE THE INSTALLATION OF NEW WORK. THIS INCLUDES, BUT IS NOT LIMITED TO THE REMOVAL OF EXISTING PORTIONS OF CONSTRUCTION WHETHER SHOWN OR NOT.
2. TEMPORARY CONSTRUCTION BARRIER WALLS WILL BE REQUIRED AT VARIOUS TIMES DURING THE STAGES OF WORK. COORDINATE WITH FACILITY ENGINEER TO DETERMINE THE TIMING OR SEQUENCE OF WHEN THE BARRIER WALLS WILL BE REQUIRED IN RELATIONSHIP TO THE STAGING OF WORK.
3. COORDINATE WITH THE FACILITY ENGINEER FOR ESTABLISHING TEMPORARY DUST BARRIERS BETWEEN AREAS BEING RENOVATED AND THOSE AREAS REMAINING OCCUPIED DURING RENOVATION WORK.
4. SEE SHEETS A831 - A833 FOR EQUIPMENT PLAN AND SCHEDULE.
5. SEE SHEET A811 & A821 FOR FLOOR FINISH PLAN AND FINISH SCHEDULE.

KEYNOTES:

THESE KEYNOTES APPLY TO THIS SHEET ONLY.

1. PARTIAL HT. WALL BELOW, SEE DTL. 30/A821
2. PATCH & REPAIR (E) CEILING TO MATCH ADJACENT SURFACES AS REQ'D.
3. UPPER CASEWORK BELOW, SEE DTL. 22/A640
4. BULKHEAD SOFFIT, SEE DTL. 17/A652

DEMOLITION KEYNOTES:

THESE KEYNOTES APPLY TO THIS SHEET ONLY.

1. REMOVE PORTION OF (E) CEILING, WIRE HANGERS & FIXTURES AS REQ'D.
2. (E) CEILING TO REMAIN
3. REMOVE (E) CEILING, WIRE HANGERS & FIXTURES.
4. (E) MEDGAS OUTLETS TO BE REMOVED/RELOCATED. SEE PLUMB DWGS. F.A.I.
5. (E) CEILING ITEM TO BE RELOCATED

LEGEND:

- CEILING ITEMS TO BE REMOVED
- SUSPENDED GYP. BD. CEILING SEE SHEET A653 FOR ADD'L. INFO.
- 2' x 2' ACOUSTICAL LAY-IN CEILING - SEE SHEETS A650 - A652 FOR SUSPENSION SYSTEM, SEE FINISH SCHEDULE FOR ACOUSTICAL TILE TYPE
- RECESSED LIGHT FIXTURES SEE DTL. CL2.80/A651 & ELEC. DWG'S. FOR ADD'L. INFO.
- SPECIALTY LED LIGHT FIXTURE PROVIDE FRAMING / SUPPORT AS REQ'D. SEE PDC DWGS. & EQUIPMENT SCHEDULE SHEET A833 F.A.I.
- SPECIALTY LED COVE LIGHT FIXTURE / SOFFIT SEE PDC DWGS. & EQUIPMENT SCHEDULE SHEET A833 F.A.I.
- SP — SPECIALTY CEILING MT. SPEAKER SYSTEM SEE PDC DWGS. & EQUIPMENT SCHEDULE SHEET A833 F.A.I.
- AIR DIFFUSERS / EXHAUST / RETURN GRILLS SEE MECH. DWG'S. FOR ADD'L INFO
- EXIT LIGHT, SEE ELEC. DWG'S. FOR ADD'L. INFO.
- (E) SPRINKLER / RELOCATED SPRINKLER - MODIFY AS REQ'D. FOR NEW LAYOUT.
- SP D — (E) SPEAKER / (E) SMOKE DETECTOR
- CURTAIN TRACK, SEE CL2.70/A651 FOR ADD'L. INFO.
- AREA OF WORK

KEYPLAN

DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

nacht&lewis
600 Q Street, Suite 100
Sacramento, CA 95811
www.nachtlewis.com
916.329.4000

LICENSED ARCHITECT JOHN M. FLATH No. C-31990 12-31-25 STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE SUITE 3010
SACRAMENTO, CALIFORNIA, 95817
(916)734-7934

CONSULTANT LOGO:

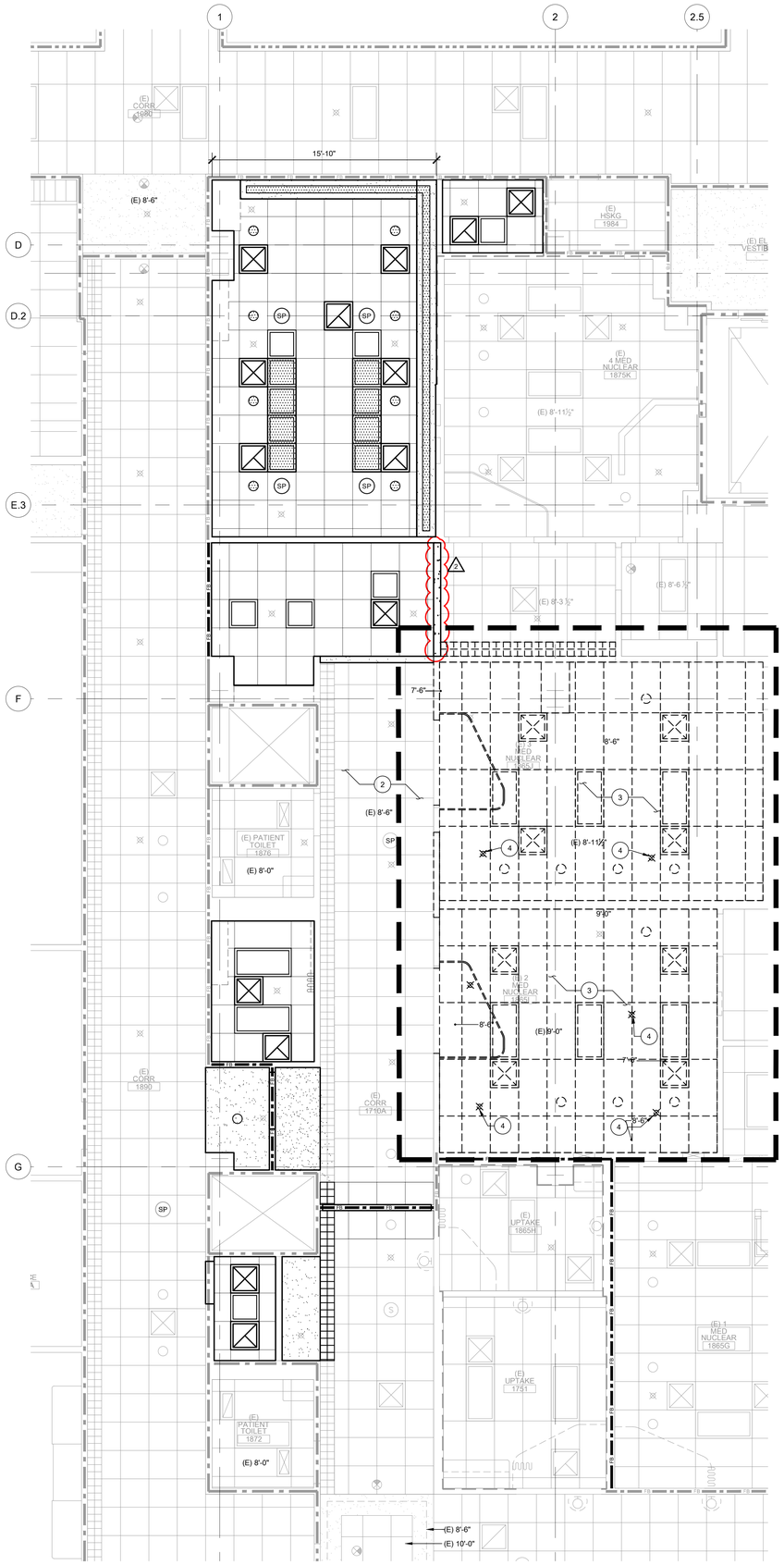
REV	REVISION DESCRIPTION	DATE
2	BID ADDENDA	12/6/2024

CONSTRUCTION DOCUMENTS

ACCOUNT NO.: 9557570
OSHPD NO.: S240360-34-00
BUILDING: DAVIS TOWER, UNIVERSITY OF CA DAVIS, MEDICAL CENTER
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: DT 1ST FLR RAD NUCLEAR MEDICINE REMODEL AREA A -PHASE 1 - 1ST FLOOR DEMOLITION & RENOVATION REFLECTED CEILING PLANS
SHEET TITLE

ARCH./ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath	-	A541A
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN	
DESIGNED BY: D.S./S.L.	DATE: 12/21/23	
DRAWN BY: J.F.	CAD FILE: -	SHEET / OF

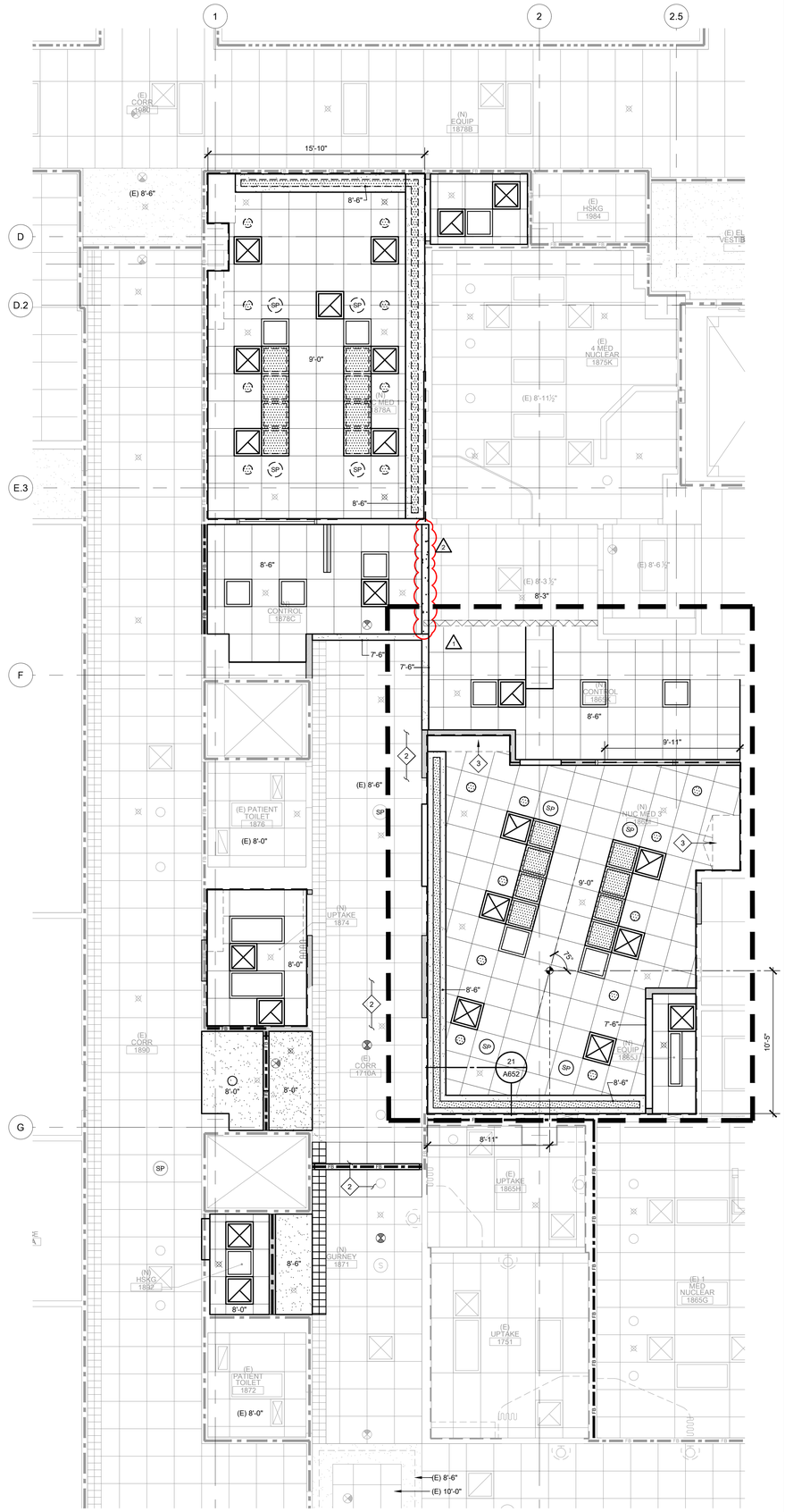
K:\Project\UCDMC\2018.00 DT1 NucMed_Infusion Room Project\Design\Drawings\A541B - 2018-00.dwg, 12/5/2024 4:48:03 PM, DWG To PDF - Lines Merge.pc3



2 1ST FLOOR RCP - DEMOLITION

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

NORTH



1 1ST FLOOR RCP - RENOVATION

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

NORTH

SHEET NOTES:

THESE NOTES APPLY TO THIS SHEET ONLY.

1. THE CONTRACTOR IS RESPONSIBLE FOR ALL INCIDENTAL WORK NECESSARY TO COMPLETE THE INSTALLATION OF NEW WORK. THIS INCLUDES, BUT IS NOT LIMITED TO THE REMOVAL OF EXISTING PORTIONS OF CONSTRUCTION WHETHER SHOWN OR NOT.
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3. COORDINATE WITH THE FACILITY ENGINEER FOR ESTABLISHING TEMPORARY DUST BARRIERS BETWEEN AREAS BEING RENOVATED AND THOSE AREAS REMAINING OCCUPIED DURING RENOVATION WORK.
4. SEE SHEETS A831 - A833 FOR EQUIPMENT PLAN AND SCHEDULE.
5. SEE SHEET A811 & A821 FOR FLOOR FINISH PLAN AND FINISH SCHEDULE.

KEYNOTES:

THESE KEYNOTES APPLY TO THIS SHEET ONLY.

1. GYP. BD. SOFFIT, SEE DTL. 16/A652
2. PATCH & REPAIR (E) CEILING TO MATCH ADJACENT SURFACES AS REQ'D.
3. UPPER CASEWORK BELOW, SEE DTL. 22/A640

DEMOLITION KEYNOTES:

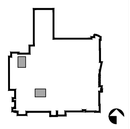
THESE KEYNOTES APPLY TO THIS SHEET ONLY.

1. NOT USED.
2. (E) CEILING TO REMAIN
3. REMOVE (E) CEILING, WIRE HANGERS & FIXTURES.
4. (E) CEILING ITEM TO BE RELOCATED

LEGEND:

- CEILING ITEMS TO BE REMOVED
- SUSPENDED GYP. BD. CEILING SEE SHEET A653 FOR ADD'L. INFO.
- 2' x 2' ACOUSTICAL LAY-IN CEILING - SEE SHEETS A650 - A652 FOR SUSPENSION SYSTEM. SEE FINISH SCHEDULE FOR ACOUSTICAL TILE TYPE
- RECESSED LIGHT FIXTURES SEE DTL. CL2.80/A651 & ELEC. DWG'S. FOR ADD'L. INFO.
- SPECIALTY LED LIGHT FIXTURE PROVIDE FRAMING / SUPPORT AS REQ'D. SEE PDC DWGS. & EQUIPMENT SCHEDULE SHEET A833 F.A.I.
- SPECIALTY LED COVE LIGHT FIXTURE / SOFFIT SEE PDC DWGS. & EQUIPMENT SCHEDULE SHEET A833 F.A.I.
- SP — SPECIALTY CEILING MT. SPEAKER SYSTEM SEE PDC DWGS. & EQUIPMENT SCHEDULE SHEET A833 F.A.I.
- AIR DIFFUSERS / EXHAUST / RETURN GRILLS SEE MECH. DWG'S. FOR ADD'L INFO
- EXIT LIGHT, SEE ELEC. DWG'S. FOR ADD'L. INFO.
- (E) SPRINKLER / RELOCATED SPRINKLER - MODIFY AS REQ'D. FOR NEW LAYOUT.
- SP D — (E) SPEAKER / (E) SMOKE DETECTOR
- AREA OF WORK

KEYPLAN



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600 Q Street, Suite 100
Sacramento, CA 95811
www.nachtlewis.com
916.329.4000

LICENSED ARCHITECT JOHN M. LEWIS No. C-21990 12-31-25 STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE SUITE 3010
SACRAMENTO, CALIFORNIA 95817
(916)734-7934

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
1	HCAI BACKCHECK 01	5/17/2024
2	BID ADDENDA	12/6/2024

CONSTRUCTION DOCUMENTS

ACCESS NO: 9557570
OSHPD NO: S240360-34-00
BUILDING: DAVIS TOWER, UNIVERSITY OF CA DAVIS, MEDICAL CENTER
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: DT 1ST FLR RAD NUCLEAR MEDICINE REMODEL
SHEET TITLE: AREA A -PHASE 2 - 1ST FLOOR DEMOLITION & RENOVATION REFLECTED CEILING PLANS

ARCH./ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath	-	A541B
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN	
DESIGNED BY: D.S./S.L.	DATE: 12/21/23	
DRAWN BY: J.F.	CAD FILE: -	SHEET / OF

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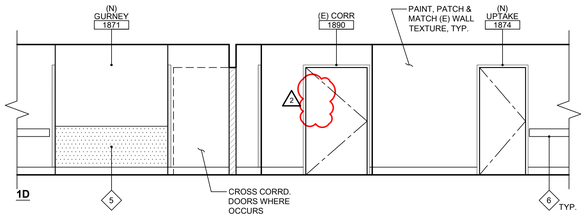
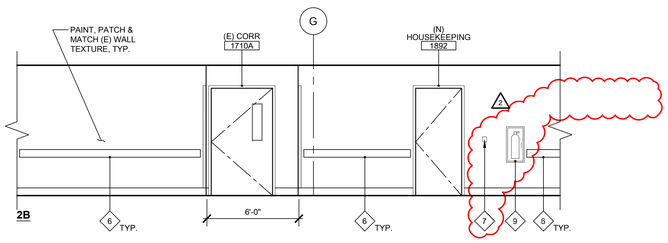


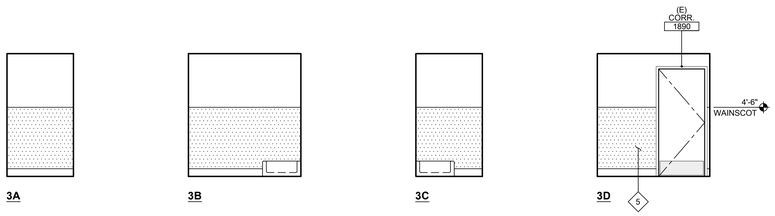
1 (E) CORR - 1710A / (N) GURNEY - 1871

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



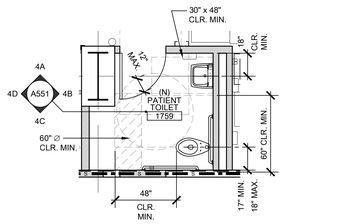
2 (E) CORR - 1890

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



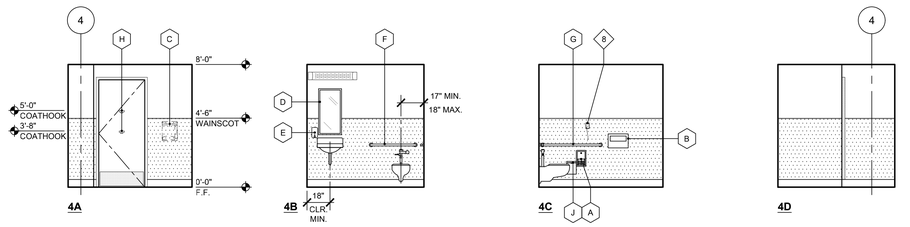
3 (N) HOUSEKEEPING 1892

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



A ENLARGED PLAN
PATIENT TOILET - 1759

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



4 (N) PATIENT TOILET - 1759

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

SHEET NOTES:

THESE NOTES APPLY TO SHEETS A551-553.

1. CDS NUMBERS ARE SHOWN FOR REFERENCE ONLY.
2. PROVIDE LOCKS TO ALL CABINET DRAWERS.
3. SEE FINISH SCHEDULE ON SHEET A821 FOR PAINT, WALL BASE, AND ADD'L. INFO.
4. ALL ADA COUNTER TOP OVERALL HEIGHT MUST NOT BE GREATER THAN 34" HIGH FROM FINISH FLOOR TO DRIP EDGE AND SINK RIMS.
5. PROVIDE BACKING AS REQ'D. PER DTL. 14/S-502.

KEYNOTES:

THESE NOTES APPLY TO SHEETS A551-553.

1. COUNTERTOP, SEE FINISH SCHED. ON A821 FOR ADD'L. INFO.
2. TYPICAL CASEWORK, SEE SHEET A640 FOR ADD'L. DTLS.
3. EQUIPMENT, PROVIDE STRUCT. FRAMING/BACKING/SEISMIC BRACING AS REQ'D.
4. (N) FURNISHINGS, O.F.O.I.
5. WALL PROTECTION, SEE SHEET A811 & A821 FOR FLOOR FINISH PLAN AND FINISH SCHEDULE.
6. REPLACE/REPAIR WALL PROTECTION TO MATCH (E).
7. CARD READER, PROVIDE CLEAR SPACE OF 30" x 48" WITH A MAXIMUM REACH OF 48" AFF.
8. NURSE CALL, SEE ELEC. DWGS. F.A.I.
9. (N) FIRE EXTINGUISHER CABINET, SEE DTL. 2/A640.
10. AMBIENT PATIENT LED LIGHTING SYSTEM, SEE PDC & ELEC. DWGS. F.A.I.

MISC. TOILET ACCESSORIES:

THESE NOTES APPLY TO SHEETS A551-553
ACCESSORIES ARE C.F.C.I. U.O.N. & REFER TO SPEC. SECTION 10800, F.A.I.

A. TOILET PAPER DISPENSER, U.F.C.I.
B. TOILET SEAT COVER DISPENSER
C. PAPER TOWEL DISPENSER, U.F.C.I.
D. 18" X 36" MIRROR
E. SOAP DISPENSER, U.F.C.I.
F. GRAB BAR 36", REFER TO DTL. 1/A640
G. GRAB BAR 48", REFER TO DTL. 1/640
H. COAT HOOK
J. SANITARY NAPKIN DISPOSAL

DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

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600 Q Street, Suite 100
Sacramento, CA 95811
www.nachtlewis.com
916.329.4000

DESIGN PROFESSIONALS OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE SUITE 3010
SACRAMENTO, CALIFORNIA 95817
(916)734-7034

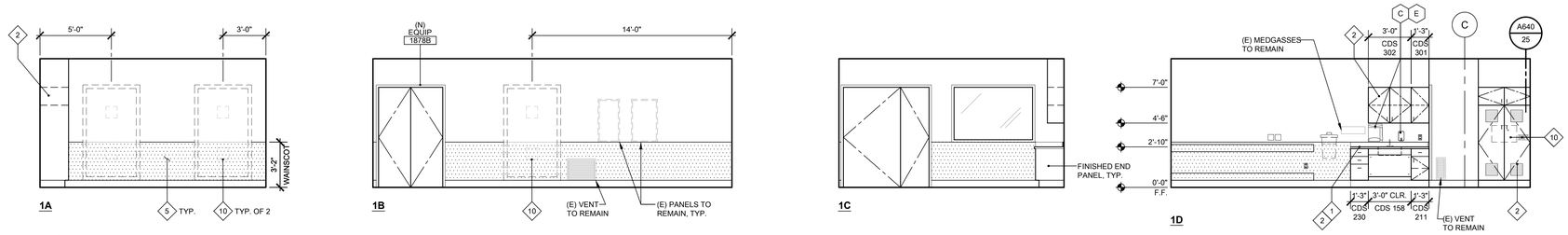
CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
2	BID ADDENDA	12/6/2024

CONSTRUCTION DOCUMENTS

ACCOUNT NO: 9557570
OSHPH NO.: -
BUILDING: DAVIS TOWER, UNIVERSITY OF CA DAVIS, MEDICAL CENTER
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: DT 1ST FLR RAD NUCLEAR MEDICINE REMODEL
SHEET TITLE: INTERIOR ELEVATIONS

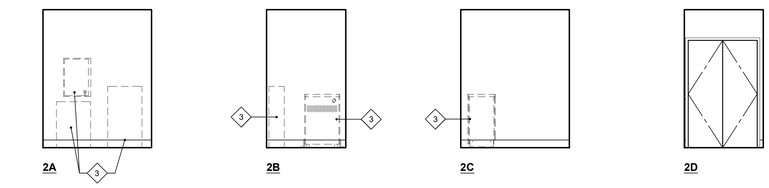
ARCH./ENGR. J. Flath	FD&C JOB NO. -	SHEET NO. A551	
UCDMC PROJECT MANAGER Z. Price	SCALE AS SHOWN		
DESIGNED BY D.S./S.L.	DATE 12/21/23		
DRAWN BY J.F.	CAD FILE -	SHEET	OF



1A 1B 1C 1D

1 (N) NUC MED 1 - 1878A

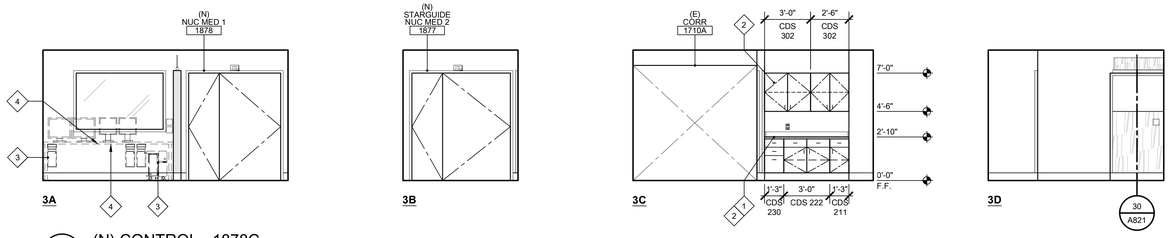
SCALE: 1/4" = 1'-0"



2A 2B 2C 2D

2 (N) EQUIP - 1878B

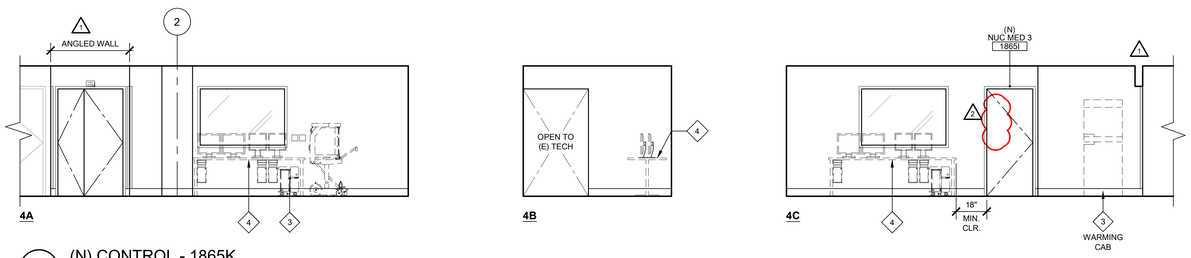
SCALE: 1/4" = 1'-0"



3A 3B 3C 3D

3 (N) CONTROL - 1878C

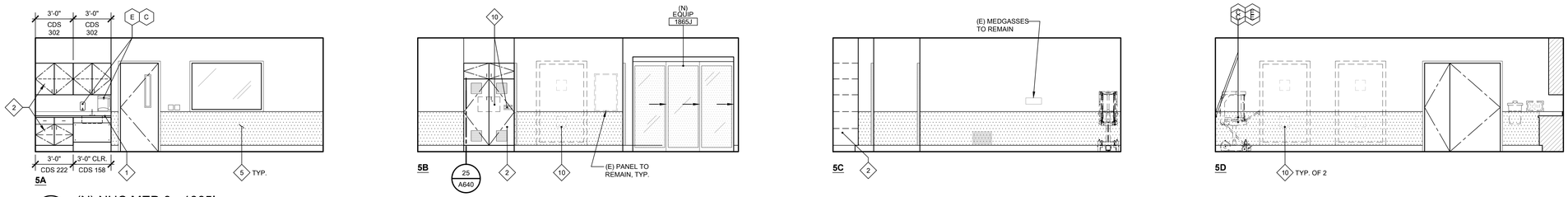
SCALE: 1/4" = 1'-0"



4A 4B 4C

4 (N) CONTROL - 1865K

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



5A 5B 5C 5D

5 (N) NUC MED 3 - 1865I

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

SHEET NOTES:

THESE NOTES APPLY TO SHEETS A551-553.

1. CDS NUMBERS ARE SHOWN FOR REFERENCE ONLY.
2. PROVIDE LOCKS TO ALL CABINET DRAWERS.
3. SEE FINISH SCHEDULE ON SHEET A821 FOR PAINT, WALL BASE, AND ADD'L. INFO.
4. ALL ADA COUNTER TOP OVERALL HEIGHT MUST NOT BE GREATER THAN 34" HIGH FROM FINISH FLOOR TO DRIP EDGE AND SINK RIMS.
5. PROVIDE BACKING AS REQ'D. PER DTL. 14/S-502.

KEYNOTES:

THESE NOTES APPLY TO SHEETS A551-553.

1. COUNTERTOP, SEE FINISH SCHED. ON A821 FOR ADD'L. INFO.
2. TYPICAL CASEWORK, SEE SHEET A640 FOR ADD'L. DTLS.
3. EQUIPMENT, PROVIDE STRUCT. FRAMING/BACKING/SEISMIC BRACING AS REQ'D.
4. (N) FURNISHINGS, O.F.O.I.
5. WALL PROTECTION, SEE SHEET A811 & A821 FOR FLOOR FINISH PLAN AND FINISH SCHEDULE.
6. REPLACE/REPAIR WALL PROTECTION TO MATCH (E).
7. CARD READER, PROVIDE CLEAR SPACE OF 30" x 48" WITH A MAXIMUM REACH OF 48" AFF.
8. NURSE CALL, SEE ELEC. DWGS. F.A.I.
9. (N) FIRE EXTINGUISHER CABINET, SEE DTL. 2/A640.
10. AMBIENT PATIENT LED LIGHTING SYSTEM, SEE PDC & ELEC. DWGS. F.A.I.

DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

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LICENSED ARCHITECT JOHN M. FLATH No. C-31990 12-31-25 STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

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FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE SUITE 3010
SACRAMENTO, CALIFORNIA 95817
(916)734-7034

CONSULTANT LOGO:

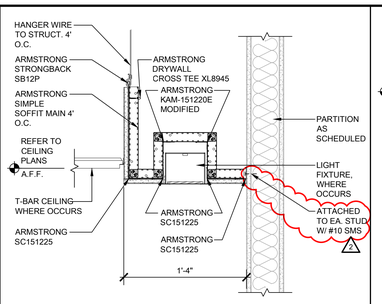
REV	REVISION DESCRIPTION	DATE
1	HCAI BACKCHECK 01	5/17/2024
2	BID ADDENDA	12/6/2024

CONSTRUCTION DOCUMENTS

ACCOUNT NO.: 9557570
OSHPH NO.: -
BUILDING: DAVIS TOWER, UNIVERSITY OF CA DAVIS, MEDICAL CENTER
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: DT 1ST FLR RAD NUCLEAR MEDICINE REMODEL
SHEET TITLE: INTERIOR ELEVATIONS

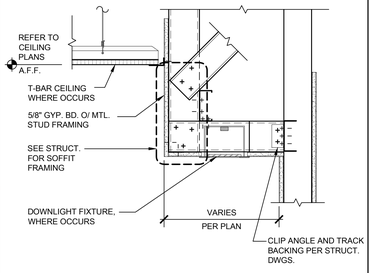
ARCH / ENGR.	FD&C JOB NO.	SHEET NO.	
J. Flath	-	A552	
UCDMC PROJECT MANAGER	SCALE		
Z. Price	AS SHOWN		
DESIGNED BY	DATE		
D.S./S.L.	12/21/23		
DRAWN BY	CAD FILE	SHEET	OF
J.F.	-		

K:\Project\UCDMC\Y2018.00 DT1 NucMed_Infusion Room Project\Design\Drawings\A551-Y2018-00.dwg, 12/6/2024 8:54:01 AM, DWG To PDF - Lines Merge.pc3



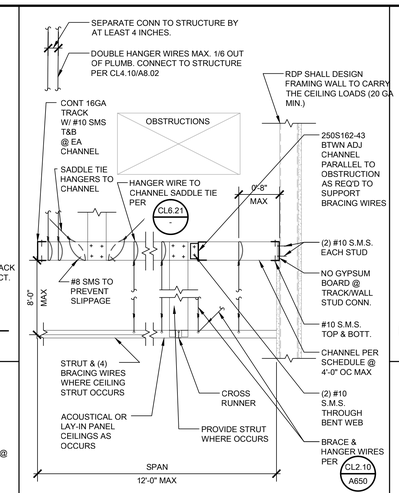
21 SPECIALTY LED @ PERIMETER

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



16 TYP. GYP. BD. SOFFIT

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



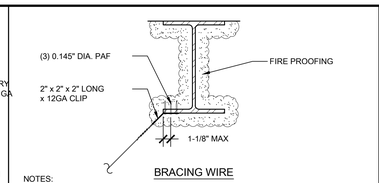
DBL. SECTION

WALL WHERE OCCURS

SPAN	SECTION
4'-0"	250S162-43
8'-0"	400S162-54
12'-0"	(2) 400S162-54

CL6.20 OBSTRUCTION - BRIDGE AT LARGE OFFSET CONDITION

SCALE: 1" = 1'-0" OPD-0002-13



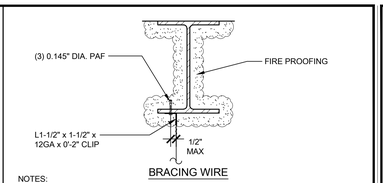
BRACING WIRE

NOTES:

1. BEAM FLANGE THICKNESS SHALL NOT BE LESS THAN 3/16" OR MORE THAN 3/8"
2. FRAMING MEMBERS SHALL BE DESIGNED TO CARRY THE CEILING LOADS, RDP TO VERIFY
3. RDP IN RESPONSIBLE CHARGE, I.O.R. AND CONTRACTOR SHALL VERIFY THAT NO PAF IS INSTALLED IN THE PROTECTED ZONE OF ANY STEEL MEMBER, SEE ANSI/AISC 341-10.

CL4.33 BRACING WIRE CONNECTION TO STRUCTURAL STEEL

SCALE: 1-1/2" = 1'-0" OPD-0002-13



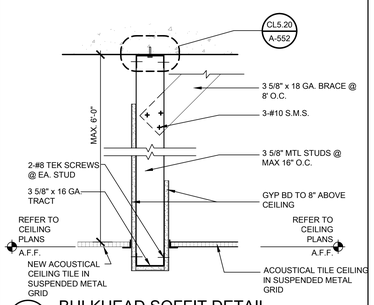
BRACING WIRE

NOTES:

1. BEAM FLANGE THICKNESS SHALL NOT BE LESS THAN 3/16" OR MORE THAN 3/8"
2. FRAMING MEMBERS SHALL BE DESIGNED TO CARRY THE CEILING LOADS, RDP TO VERIFY
3. RDP IN RESPONSIBLE CHARGE, I.O.R. AND CONTRACTOR SHALL VERIFY THAT NO PAF IS INSTALLED IN THE PROTECTED ZONE OF ANY STEEL MEMBER, SEE ANSI/AISC 341-10.

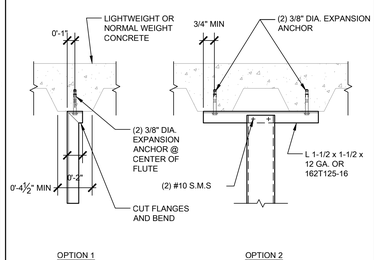
CL4.23 HANGER WIRE CONNECTION TO STRUCTURAL STEEL

SCALE: 1-1/2" = 1'-0" OPD-0002-13

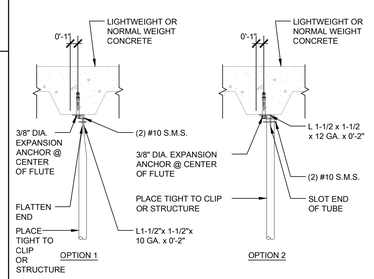


17 BULKHEAD SOFFIT DETAIL

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



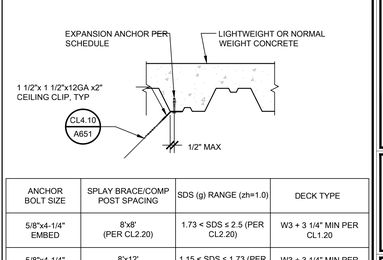
CHANNEL STRUT



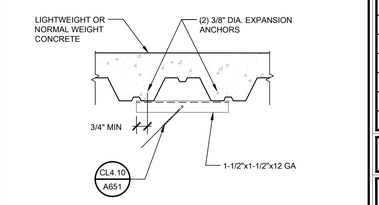
TUBE STRUT

CL5.20 STRUT CONNECTION TO CONCRETE O/ MTL. DECK

SCALE: 1-1/2" = 1'-0" OPD-0002-13



ANCHOR BOLT SIZE	SPLAY BRACE/COMP POST SPACING	SDS (g) RANGE (z/h=1.0)	DECK TYPE
5/8"x4-1/4" EMBED	8'x8' (PER CL2.20)	1.73 < SDS ≤ 2.5 (PER CL2.20)	W3 + 3 1/4" MIN PER CL1.20
5/8"x4-1/4" EMBED	8'x12' (PER CL2.21)	1.15 < SDS ≤ 1.73 (PER CL2.21)	W3 + 3 1/4" MIN PER CL1.20
5/8"x4-1/4" EMBED	12'x12' (PER CL2.22)	0 < SDS ≤ 1.73 (PER CL2.22)	W3 + 3 1/4" MIN PER CL1.20
3/8"x2" EMBED[3]	8'x8' (PER CL2.20)[3]	0.76 < SDS ≤ 1.14 (IN LIEU OF SDS SHOWN ON CL2.20)[3]	W3 + 3 1/4" MIN PER CL1.20 OR B1 1/2" + 2 1/4" MIN PER CL1.22
3/8"x2" EMBED[3]	8'x12' (PER CL2.21)[3]	0.51 < SDS ≤ 0.76 (IN LIEU OF SDS SHOWN ON CL2.21)[3]	W3 + 3 1/4" MIN PER CL1.20 OR B1 1/2" + 2 1/4" MIN PER CL1.22
3/8"x2" EMBED[3]	12'x12' (PER CL2.22)[3]	0 < SDS ≤ 0.51 (IN LIEU OF SDS SHOWN ON CL2.22)[3]	W3 + 3 1/4" MIN PER CL1.20 OR B1 1/2" + 2 1/4" MIN PER CL1.22

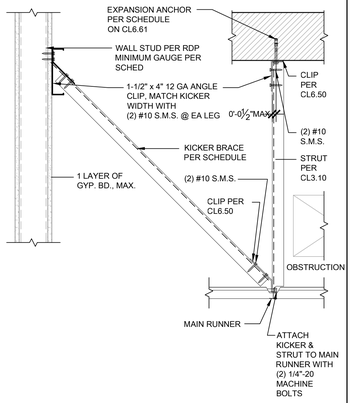


NOTES:

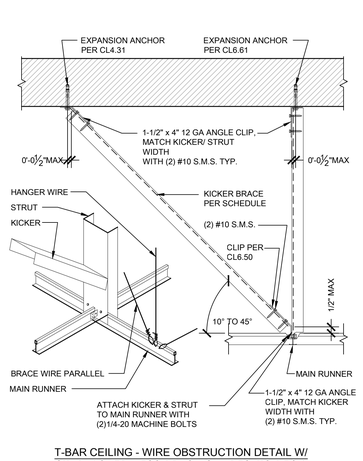
1. LOAD TEST IN ACCORDANCE WITH GENERAL NOTE 14(G), PAGE CL0.02/A8.01 SHALL BE REQUIRED
2. REFER TO CL4.10 FOR ADDITIONAL DETAILS
3. RDP CAN USE SMALLER EXPANSION BOLT SIZE AND SHALLOWER EMBEDMENT DEPTH SHOWN, PROVIDED VERTICAL STRUT/BRACING WIRE SPACING IS REDUCED AS SHOWN, IN LIEU OF SPACINGS SHOWN ON CL2.20, CL2.21, AND CL2.22.

CL4.31 BRACING WIRE CONNECTION TO CONCRETE O/ MTL. DECK

SCALE: 1-1/2" = 1'-0" OPD-0002-13



SIDE VIEW



T-BAR CEILING - WIRE OBSTRUCTION DETAIL W/ STUD KICKER, LESS BRACING WIRES, TO DECK.

KICKER SCHEDULE			
	SPAN	MATERIAL	SSMA
≤	4'-0"	18 GA	250S137-43
≤	8'-0"	18 GA	400S162-43
≤	14'-0"	18 GA	400S162-54

T-BAR CEILING - WIRE OBSTRUCTION DETAIL W/ STUD KICKER, LESS BRACING WIRES, TO WALL

WALL STUD GAUGE	CONN TO WALL STUD	CONN TO WALL STUD ALT[3]
20 GA	(5) #10x1-1/4" SMS	(3) #10x1-1/4 SMS
18 GA	(4) #10x1-1/4" SMS	(2) #10x1-1/4 SMS

NOTES:

1. KICKER BRACING IS AN ALTERNATE TO BRACING WIRES. THIS METHOD MAY BE USED IN LIEU OF OPPOSING WIRES AT ATTACHED JOINT ONLY. NOT PERMITTED AT FREE JOINT
2. RDP SHALL DESIGN FRAMED WALLS TO CARRY THE CEILING LOADS
3. APPLIES WHERE CLIP ATTACHED DIRECTLY TO WALL STUD.

CL6.60 OBSTRUCTION - STUD KICKER TO WALL

SCALE: 1-1/2" = 1'-0" OPD-0002-13

CL6.50 OBSTRUCTION - STUD KICKER TO WALL

SCALE: 1-1/2" = 1'-0" OPD-0002-13

ANCHOR BOLT SIZE	SPLAY BRACE/COMP POST SPACING	SDS (g) RANGE (z/h=1.0)	DECK TYPE
5/8"x4-1/4" EMBED	8"x8" (PER CL2.20)	1.73 < SDS ≤ 2.5 (PER CL2.20)	W3 + 3 1/4" MIN PER CL1.20
5/8"x4-1/4" EMBED	8"x12" (PER CL2.21)	1.15 < SDS ≤ 1.73 (PER CL2.21)	W3 + 3 1/4" MIN PER CL1.20
5/8"x4-1/4" EMBED	12"x12" (PER CL2.22)	0 < SDS ≤ 1.15 (PER CL2.22)	W3 + 3 1/4" MIN PER CL1.20
3/8"x2" EMBED[1]	8"x8" (PER CL2.20)[1]	0.90 < SDS ≤ 1.35 (IN LIEU OF SDS SHOWN ON CL2.20)[1]	W3 + 3 1/4" MIN PER CL1.20 OR B1 1/2" + 2 1/4" MIN PER CL1.22
3/8"x2" EMBED[1]	8"x12" (PER CL2.21)[1]	0.60 < SDS ≤ 0.90 (IN LIEU OF SDS SHOWN ON CL2.21)[1]	W3 + 3 1/4" MIN PER CL1.20 OR B1 1/2" + 2 1/4" MIN PER CL1.22
3/8"x2" EMBED[1]	12"x12" (PER CL2.22)[1]	0 < SDS ≤ 0.60 (IN LIEU OF SDS SHOWN ON CL2.22)[1]	W3 + 3 1/4" MIN PER CL1.20 OR B1 1/2" + 2 1/4" MIN PER CL1.22

NOTES:
1. RDP CAN USE SMALLER EXPANSION BOLT SIZE AND SHALLOWER EMBEDMENT DEPTH SHOWN, PROVIDED VERTICAL STRUT/BRACING WIRE SPACING IS REDUCED AS SHOWN, IN LIEU OF SPACINGS SHOWN ON CL2.20, CL2.21, AND CL2.22.

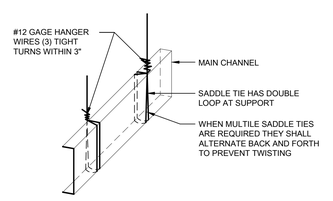
CL6.61 OBSTRUCTION - STUD KICKER TO WALL

SCALE: N.T.S. OPD-0002-13

TRAPEZE SUPPORT

CL6.10 OBSTRUCTION TRAPEZE CONDITION

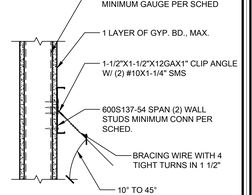
SCALE: 1/4" = 1'-0" OPD-0002-13



SADDLE TIE AT MAIN RUNNER TO HANGER

CL6.21 SADDLE TIE DETAIL

SCALE: 1-1/2" = 1'-0" OPD-0002-13



WALL STUD GAUGE	CONN TO WALL STUD	CONN TO WALL STUD ALT[3]
20 GA	(5) #10x1-1/4" SMS	(3) #10x1-1/4" SMS
18 GA	(4) #10x1-1/4" SMS	(2) #10x1-1/4" SMS

NOTES:

1. RDP SHALL DESIGN FRAMING WALL TO CARRY THE CEILING LOAD PER NOTE #2.
2. SEISMIC BRACE WIRE FORCE = 473 LBS (ASD LEVEL). BRACING WIRE SHALL HAVE A MINIMUM STRETCH LENGTH OF 12", WHEN USED AT FREE JOINT.
3. APPLIES WHERE CLIP ATTACHED DIRECTLY TO WALL STUD.

CL4.35 BRACING WIRE CONNECTION TO MTL. STUD WALL

SCALE: 1-1/2" = 1'-0" OPD-0002-13

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DESIGN PROFESSIONALS OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE SUITE 3010
SACRAMENTO, CALIFORNIA 95817
(916)734-7934

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
2	BID ADDENDA	12/6/2024

CONSTRUCTION DOCUMENTS

ACCESS NO. 9557570
OSHPD NO. S240360-34-00
BUILDING: DAVIS TOWER, UNIVERSITY OF CA DAVIS, MEDICAL CENTER
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: DT 1ST FLR RAD NUCLEAR MEDICINE REMODEL
SHEET TITLE: SUSPENDED CEILING DETAILS

ARCH / ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath	-	A652
UCDMC PROJECT MANAGER	SCALE	
Z. Price	AS SHOWN	
DESIGNED BY	DATE	
D.S./S.L.	12/21/23	
DRAWN BY	CAD FILE	SHEET / OF
J.F.	-	

K:\Project\UCDMC\Y2018.00 DT1 NucMed_Infusion Room Project\Design\Drawings\A652-Y2018-00.dwg, 12/3/2024 2:10:53 PM, DWG To PDF - Lines Merge.pc3

EXISTING DOOR SCHEDULE

1ST FLOOR DAVIS TOWER

OPENING NO.	DOOR: NOMINAL DOOR SIZE (W X H) INSIDE OF DOOR FRAME	DOOR: TYPE	DOOR: MAT.	DOOR: FIN.	ASSEMBLY RATING	GLASS	HARDWARE GROUP	FRAME: TYPE	FRAME: MAT.	DETAILS: HEAD/ JAMBS	DETAILS: SILL/ BASE	DETAILS: SIGN TYPE	REMARKS
1813	(E) 3'-0"X 7'-0"	(E)	(E)	(E)	45 MIN	-	(E)	(E)	(E)	-	-	-	EXISTING RATED DOOR TO BE RECERTIFIED TO A 45 MIN. RATING. (2)
1860	(E) 3'-0"X 7'-0"	(E)	(E)	(E)	45 MIN	-	(E)	(E)	(E)	-	-	-	
1860A	(E) 3'-0"X 7'-0"	(E)	(E)	(E)	45 MIN	-	(E)	(E)	(E)	-	-	-	
1860B	(E) 3'-0"X 7'-0"	(E)	(E)	(E)	45 MIN	-	(E)	(E)	(E)	-	-	-	
1865A.1	(E) PR. 4'-0" X 7'-0" 2'-0" X 7'-0"	(E)	(E)	(E)	45 MIN	-	(E)	(E)	(E)	-	-	-	
1865C.1	(E) PR. 4'-0" X 7'-0" 2'-0" X 7'-0"	(E)	(E)	(E)	45 MIN	-	(E)	(E)	(E)	-	-	-	
1865D.1	(E) PR. 4'-0" X 7'-0" 2'-0" X 7'-0"	(E)	(E)	(E)	45 MIN	-	(E)	(E)	(E)	-	-	-	
1865E.1	(E) PR. 4'-0" X 7'-0" 2'-0" X 7'-0"	(E)	(E)	(E)	45 MIN	-	(E)	(E)	(E)	-	-	-	
1865F.1	(E) PR. 4'-0" X 7'-0" 2'-0" X 7'-0"	(E)	(E)	(E)	45 MIN	-	(E)	(E)	(E)	-	-	-	
1865G.1	(E) PR. 4'-0" X 7'-0" 2'-0" X 7'-0"	(E)	(E)	(E)	45 MIN	-	(E)	(E)	(E)	-	-	-	
1865O.1	(E) 3'-0" X 7'-0"	(E)	(E)	(E)	45 MIN	-	(E)	(E)	(E)	-	-	-	
1865O.2	(E) 3'-0" X 7'-0"	(E)	(E)	(E)	45 MIN	-	(E)	(E)	(E)	-	-	-	
1902.1	(E) 3'-0" X 7'-0"	(E)	(E)	(E)	45 MIN	-	(E)	(E)	(E)	-	-	-	

DOOR AND WINDOW SCHEDULE

1ST FLR DAVIS TOWER

OPENING NO.	DOOR: NOMINAL DOOR SIZE (W X H) INSIDE OF DOOR FRAME	DOOR: TYPE	DOOR: MAT.	DOOR: FIN.	ASSEMBLY RATING	GLASS	HARDWARE GROUP	FRAME: TYPE	FRAME: MAT.	DETAILS: HEAD/ JAMBS	DETAILS: SILL/ BASE	DETAILS: SIGN TYPE	REMARKS
10A	4'-0" X 7'-0"	A (2)	SC	PLAM	45 MIN	-	01	1	HM	28/- (1)	30/-	ID. 20	CARD READER
10B	PR. 3'-10" X 7'-0"	B	SC	PLAM	(1) 45 MIN	14WG (2)	02	1	HM	28/-	25/-	ID. 20	HOLD OPEN
56	4'-0" X 7'-0"	A	SC	PLAM	20 MIN	-	03	1	HM	28/- (1)	30/-	ID. 20, 62, .68	CARD READER
57	96" X 90" ICU DOOR	C	-	ALUM	-	14T	04	1	ALUM	-	30/-	ID. 25	ASSAABLOY VERSAMAX ICU OVERHEAD CONCEALED FULL BREAKOUT TRACKLESS DOOR SYSTEM
59	3'-0" X 7'-0"	A	SC	PLAM	-	-	05	1	HM	28/- (1)	30/-	ID. 10, 11, 26, 27, 40	
65I	PR. 4'-0" X 7'-0" 2'-0" X 7'-0"	A	SC	PLAM / DP	-	-	06	2	HM	23/-	30/-	ID. 20, 62, 67, 68	LEADED DOOR - MATCH LEAD WEIGHT OF ADJACENT WALL, ROTON HINGES
65J	96" X 90" ICU DOOR	C	-	ALUM	-	-	04 (1)	1	ALUM	-	30/-	ID. 40	ASSAABLOY VERSAMAX ICU OVERHEAD CONCEALED FULL BREAKOUT TRACKLESS DOOR SYSTEM
65K	3'-0" X 7'-0"	A (2)	SC	PLAM	-	-	07	2	HM	23/-	30/-	ID. 25	LEADED DOOR - MATCH LEAD WEIGHT OF ADJACENT WALL, ROTON HINGES
74	3'-0" X 7'-0"	A	SC	PLAM	-	-	08	2	HM	23/-	30/-	ID. 20, 62, 68	LEADED DOOR - MATCH LEAD WEIGHT OF ADJACENT WALL, ROTON HINGES
77A	96" X 90" ICU DOOR	C	-	ALUM	-	14T	04	1	ALUM	-	30/-	ID. 25	ASSAABLOY VERSAMAX ICU OVERHEAD CONCEALED FULL BREAKOUT TRACKLESS DOOR SYSTEM
(1)													
77C	PR. 4'-0" X 7'-0" 2'-0" X 7'-0"	A	SC	PLAM / DP	-	-	06	2	HM	23/-	30/-	ID. 20, 62, 67, 68	LEADED DOOR - MATCH LEAD WEIGHT OF ADJACENT WALL, ROTON HINGES
(E) 78A	PR. 4'-0" X 7'-0" 2'-0" X 7'-0"	(E)	(E)	(E)	-	-	(E)	(E)	(E)	(E)	(E)	ID. 20, 62, 67, 68	-
78B	PR. 2'-3" X 7'-0"	A	SC	PLAM	-	14T	09 (1)	2	HM	23/-	30/-	ID. 40	LEADED DOOR - MATCH LEAD WEIGHT OF ADJACENT WALL, ROTON HINGES
92	3'-0" X 7'-0"	A	SC	PLAM	20 MIN	-	10 (1)	1	HM	28/- (1)	25/-	ID. 25	

DOOR FRAMES & MISC.

FIN.	PRODUCT TYPE	MANUFACTURER	STYLE	COLOR/ NAME	SIZE	REMARKS
DP1	FRAME PROTECTION	C/S ACROVYN	-	MATCH (E) CORRIDOR FINISHES	-	TO MATCH (E) FINISHES
HM	PAINTED HOLLOW MTL.	SHERWIN WILLIAMS	SEMI GLOSS	SW 7008 ALABASTER	-	TO MATCH (E) FINISHES
PLAM	PLASTIC LAMINATE	FORMICA	MATTE	AMBER MAPLE	-	-

22 HOLLOW METAL DOOR HEAD/JAMB

SCALE: 3" = 1'-0"

23 LEAD-LINED HOLLOW METAL DOOR HEAD/JAMB

SCALE: 3" = 1'-0"

SIGNAGE TYPES:

NOTE: REFER TO SECTION 10425 - UCDH MASTER SIGNAGE STANDARDS MANUAL AND GUIDELINE. SUBMIT SIGN AND PLAQUE COLORS, DESIGNS AND SIZES FOR APPROVAL.

DOOR TYPES:

FRAME TYPES:

DOOR MATERIAL NOTES:

DOOR MATERIAL

AP = 40" ARMOR PLATE - 18 GA. ST. STL.
FP = 48" FRAME PROTECTION - .040" ONE-PIECE I.R. PLASTIC
HM = 16 GA. HOLLOW METAL - PAINT FINISH
KP = 12" KICK PLATE - 18 GA. ST. STL.
SC = FLUSH WOOD DOOR, 1 3/4" WOOD SOLID CORE
DP = DOOR PROTECTION

FRAME MATERIAL

HM = HOLLOW METAL, FACTORY FINISHED PAINT

GLASS TYPES:

14T 1/4" TEMPERED CLEAR
~~14L 1/4" TEMPERED CLEAR LEAD GLASS - MATCH WEIGHT OF ADJACENT WALL~~
14WG 1/4" WIRE GLASS (2)

GENERAL NOTES:

1. SEE SPECS FOR ADD'L. INFO.
2. SEE DTL. 19/A710 FOR ROOM SIGNAGE.

24 LEAD-LINED WINDOW HEAD/JAMB

SCALE: 3" = 1'-0"

19 INTERIOR ROOM SIGN PLACEMENT

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

ICU DOOR:

DOOR PROTECTION TYPES:

DOOR / HARDWARE NOTES:

1. DIMENSION FOR WIDTH IS CLEAR DIMENSION OF OPENING. PROVIDE DOOR OF APPROPRIATE WIDTH FOR SCHEDULED OPENING.

2. RATED DOORS TO BE POSITIVE LATCHING. 20-MINUTE ASSEMBLIES SHALL BE PROVIDED WITH APPROVED GASKETING MATERIAL INSTALLED TO PROVIDE A SEAL WHERE THE DOOR MEETS THE STOP ON BOTH SIDES AND THE TOP. (UBC STDS. 7-2). MANUFACTURERS' INSTALLATION INSTRUCTIONS SHALL BE AVAILABLE ON THE JOB SITE FOR ALL RATED DOOR ASSEMBLIES.

3. DOOR CLEARANCES SHALL COMPLY WITH UBC STD. 7-2.

4. DOOR SILL SHALL COMPLY W/NFPA 80.

5. INSTALLATION INSTRUCTIONS MUST BE PROVIDED AT JOB SITE.

6. INSTALLATION INSTRUCTIONS SHALL CONTAIN INFORMATION REGARDING THE USE OF ONLY APPROVED COMPONENTS IN THE OPENING.

7. SPECIFICATIONS FOR DOOR ASSEMBLIES SHALL IDENTIFY THOSE COMPONENTS THAT REQUIRE POSITIVE PRESSURE CERTIFICATION.

8. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 POUNDS. FOR EXTERIOR DOORS AND 5 POUNDS (2.3 KG.) FOR INTERIOR DOORS, SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING DOOR OR FOLDING DOORS. FOR FIRE DOORS, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY NOT EXCEED 15 POUNDS (6.8 KG.) PER CBC SECTION 11B-404.2.9.

9. HANDLES, PULLS, LATCHES, LOCKS, HARDWARE AND OTHER OPERABLE PARTS ON DOORS SHALL BE 34 INCHES MINIMUM AND 44 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND PER CBC SECTION 11B0404.2.7. HAND-ACTIVATED DOOR OPENING HARDWARE WHERE PUSH PLATES ARE PROVIDED; THERE SHALL BE TWO PUSH PLATES; THE CENTERLINE OF ONE PUSH PLATE SHALL BE 7" MINIMUM AND 8" MAXIMUM ABOVE THE GROUND SURFACE AND THE CENTERLINE OF THE SECOND PUSH PLATE SHALL BE 30" MINIMUM AND 44" MAXIMUM ABOVE THE GROUND SURFACE PER CBC 11B-404..2.9.

10. ALL EXIT-ACCESS DOORWAYS AND DOORWAYS FROM UNOCCUPIED AREAS TO A CORRIDOR SHALL BE PROTECTED BY TIGHT-FITTING SMOKE- AND DRAFT-CONTROL ASSEMBLIES HAVING A FIRE-PROTECTION RATING OF NOT LESS THAN 20 MINUTES WHEN TESTED IN ACCORDANCE WITH UBC STANDARD 7-2, PART II. SUCH DOORS SHALL NOT HAVE LOUVERS, MAIL SLOTS OR SIMILAR OPENINGS. THE DOOR AND FRAME SHALL BEAR AN APPROVED LABEL OR OTHER IDENTIFICATION SHOWING THE RATING THEREOF, FOLLOWED BY THE LETTER "S", THE NAME OF THE MANUFACTURER AND THE IDENTIFICATION OF THE SERVICE CONDUCTING THE INSPECTION OF MATERIALS AND WORKMANSHIP AT THE FACTORY DURING FABRICATION AND ASSEMBLY. DOORS SHALL BE MAINTAINED SELF-CLOSING OR SHALL BE AUTOMATIC CLOSING BY ACTUATION OF A SMOKE DETECTOR IN ACCORDANCE WITH SECTION 713.2. SMOKE- AND DRAFT-CONTROL DOOR ASSEMBLIES SHALL BE PROVIDED WITH A GASKET INSTALLED SO AS TO PROVIDE A SEAL WHERE THE DOOR MEETS THE STOP ON BOTH SIDES AND ACROSS THE TOP.

EXCEPTION: VIEW PORTS MAY BE INSTALLED IF THEY REQUIRE A HOLE NOT LARGER THAN 1 INCH (25 MM.) IN DIAMETER THROUGH THE DOOR, HAVE AT LEAST A 1/4 INCH THICK (6.4 MM.) GLASS DISC AND THE HOLDER IS OF METAL THAT WILL NOT MELT OUT WHEN SUBJECT TO TEMPERATURES OF 1,700°F (927°C).

11. DOORS WITH CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90°, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12° FROM THE LATCH IS 5 SECONDS MINIMUM PER CBC 11B-404.2.8.

12. FIRE DOOR ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF HTE 2019 CBC, SECTION 715 AND NFPA 80

30 INTERIOR DOOR SILL @ CONTINUOUS SHEET FLOORING

SCALE: 6" = 1'-0"

25 DOOR SILL @ TRANSITION

SCALE: 6" = 1'-0"

WINDOW TYPES:

LEAD FRAME & GLASS - MATCH LEAD WEIGHT IN ADJACENT WALL

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LICENSED ARCHITECT JOHN M. FLATH No. C-21560 REN. 12-31-25 STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

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CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
1	HCAI BACKCHECK 01	5/17/2024
2	BID ADDENDA	12/6/2024

CONSTRUCTION DOCUMENTS

ACCOUNT NO.: 9557570
OSHPD NO.: S240360-34-00
BUILDING: DAVIS TOWER, UNIVERSITY OF CA DAVIS, MEDICAL CENTER
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: DT 1ST FLR RAD NUCLEAR MEDICINE REMODEL
SHEET TITLE: DOOR SCHEDULE & DETAILS

ARCH.\ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath	-	A710
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN	
DESIGNED BY: D.S./S.L.	DATE: 12/21/23	
DRAWN BY: J.F.	CAD FILE: -	SHEET / OF

K:\Project\UCDMC\Y2018.00 DT1 NucMed_Infusion Room Project\Design\Drawings\A710-Y2018-00.dwg, 12/5/2024 1:05:47 PM, DWG To PDF - Lines Merge.pc3

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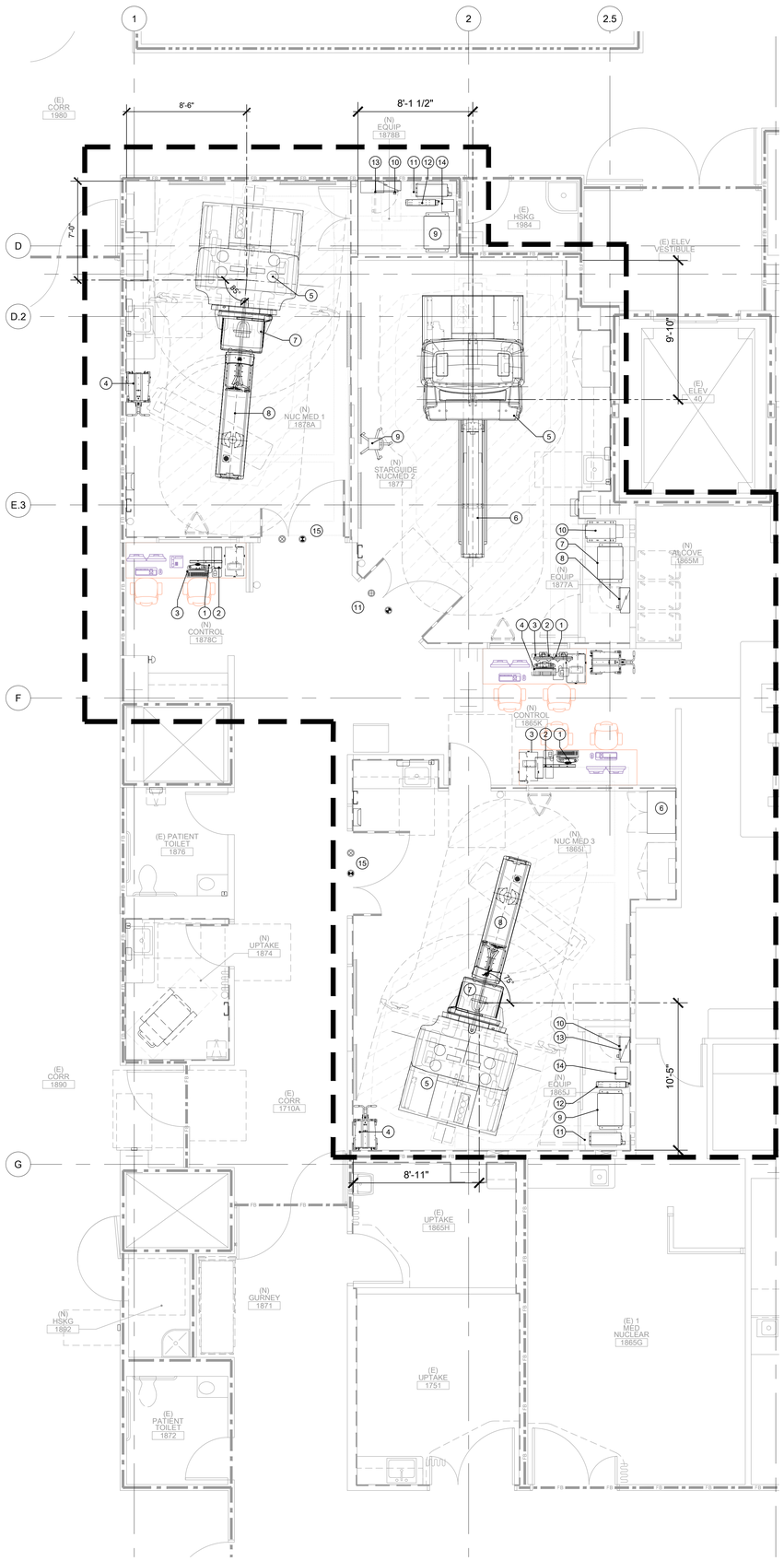


1 AREA A - EQUIPMENT PLAN

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

GE EQUIPMENT SCHEDULE

NUC MED 1 - RM 1878A (NM/CT 870 DR SPECT CT SYSTEM)

BY	NO. (#)	DESCRIPTION	MAX. HEAT OUTPUT (BTU)	WEIGHT (LBS)
A	1	SMART CONSOLE	256	25
A	2	NM HOST	256	25
A	3	OPERABLE CONSOLE	2864	144
A	4	COLLIMATOR CART (WITHOUT COLLIMATORS)	-	150
A	5	CT GANTRY OSP 0239, MODEL 5376204-70-60 1	18755	4167
A	6	GE STORAGE CABINET	-	150
2 A	7	NM GANTRY (WITHOUT COLLIMATORS) OSP 0239, MODEL XXXXXXX 1	4501	4251
A	8	PATIENT TABLE OSP 0239, MODEL XXXXXXX 1	682	1228
A	9	POWER DISTRIBUTION UNIT (CT PDU)	3410	816
2 B	10	POWER INPUT DISTRIBUTION BOX (PIDB)	-	33
A	11	PARTIAL UPS	2830	265
A	12	6 KVA UPS	1500	106
B	13	MAIN DISCONNECT CT PANEL (MDP)	-	115
2 A	14	TRANSFORMER FOR 6 KVA UPS	999	77
C	15	MIN. OPENING FOR EQUIPMENT DELIVERY IS 56" W x 82" H, CONTINGENT ON A 99" CORRIDOR WIDTH	-	
		* THIS ROOM WILL BE DESIGNATED FOR EMERGENCY/TRAUMA USE. 1		

STARGUIDE NUC MED 2 - RM 1877 (STARGUIDE SPECT/CT SYSTEM) 1

BY	NO. (#)	DESCRIPTION	MAX. HEAT OUTPUT (BTU)	WEIGHT (LBS)
A	1	IMAGE ACQUISITION CONSOLE	512	49
A	2	NM ACQUISITION CONSOLE	256	25
A	3	SMART CONSOLE	256	25
A	4	OPERATOR CONSOLE	3199	144
A	5	GANTRY	20688	7144
A	6	PATIENT TABLE	682	1228
A	7	POWER DISTRIBUTION UNIT (PDU)	3396	816
B	8	MAIN DISCONNECT PANEL (MDP)	-	115
A	9	ECG MONITOR	-	7
A	10	PARTIAL UPS14.4 KVA	3001	775
C	11	MIN. OPENING FOR EQUIPMENT DELIVERY IS 56" W x 82" H, CONTINGENT ON A 99" CORRIDOR WIDTH		

NUC MED 3 - RM 1865I (NM/CT 870 CZT SPECT/CT SYSTEM) 1

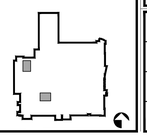
BY	NO. (#)	DESCRIPTION	MAX. HEAT OUTPUT (BTU)	WEIGHT (LBS)
A	1	SMART CONSOLE	256	25
A	2	NM HOST	256	25
A	3	OPERABLE CONSOLE	2864	144
A	4	COLLIMATOR CART (WITHOUT COLLIMATORS)	-	150
A	5	CT GANTRY	18755	4167
A	6	GE STORAGE CABINET	-	150
A	7	NM GANTRY (WITHOUT COLLIMATORS)	4501	3740
A	8	PATIENT TABLE	682	1228
B	9	POWER DISTRIBUTION UNIT (CT PDU)	3410	816
A	10	6 KVA UPS	1500	106
A	11	TRANSFORMER FOR 6 KVA UPS	999	77
B	12	MAIN DISCONNECT PANEL (MDP)	-	115
A	13	PARTIAL UPS	2830	265
A	14	GE STORAGE CABINET	-	150
C	15	COUNTERTOP FOR EQUIPMENT	-	
C	16	LEAD GLASS VIEWING WINDOW		
C	17	MIN. OPENING FOR EQUIPMENT DELIVERY IS 56" W x 82" H, CONTINGENT ON A 99" CORRIDOR WIDTH		

A = GE SUPPLIED / CONTRACTOR ANCHORED 2
B = GE SUPPLIED / CONTRACTOR INSTALLED
C = CUSTOMER / CONTRACTOR SUPPLIED & INSTALLED

LEGEND:

- UNIVERSITY I.T. ITEMS - O.F.O.I.
- SYSTEMS FURNITURE, N.I.C. - O.F.O.I.
- WALL MOUNTED TOILET ACCESSORIES - C.F.C.I. SEE INTERIOR ELEVS. F.A.I.

KEYPLAN



DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

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LICENSED ARCHITECT JOHN M. FLATH No. C-31390 12-31-25 STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE SUITE 3010
SACRAMENTO, CALIFORNIA 95817
(916)734-7934

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
1	HCAI BACKCHECK 01	5/17/2024
2	BID ADDENDA	12/6/2024

CONSTRUCTION DOCUMENTS

PROJECT NO.: 9557570
OSHPD NO.: S240360-34-00
BUILDING: DAVIS TOWER, UNIVERSITY OF CA DAVIS, MEDICAL CENTER
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: DT 1ST FLR RAD NUCLEAR MEDICINE REMODEL
SHEET TITLE: GE EQUIPMENT PLAN & SCHEDULE

ARCH \ ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath	-	A831
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN	
DESIGNED BY: D.S./S.L.	DATE: 12/21/23	
DRAWN BY: J.F.	CAD FILE: -	SHEET / OF

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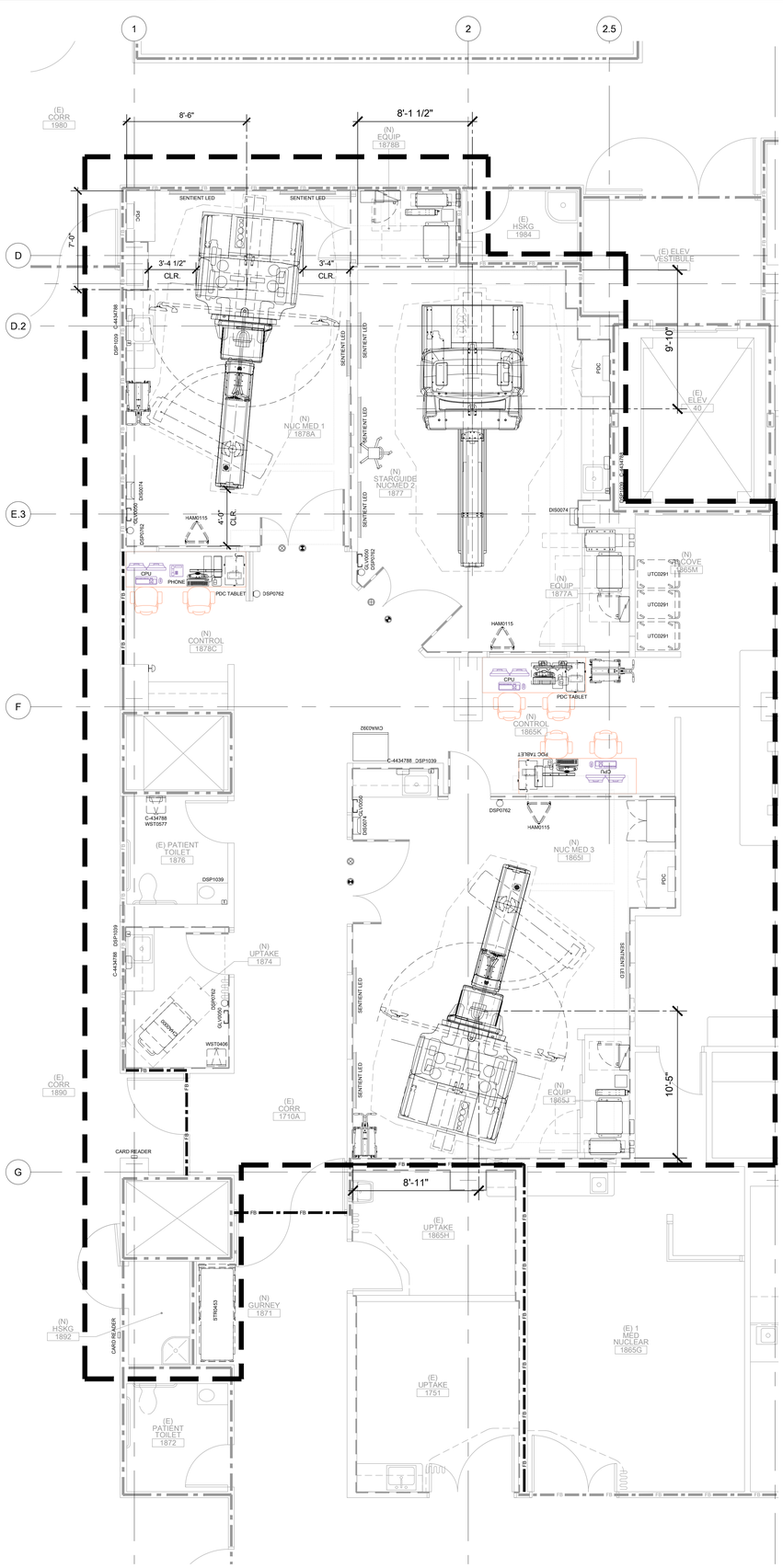
ANCILLARY EQUIPMENT LEGEND

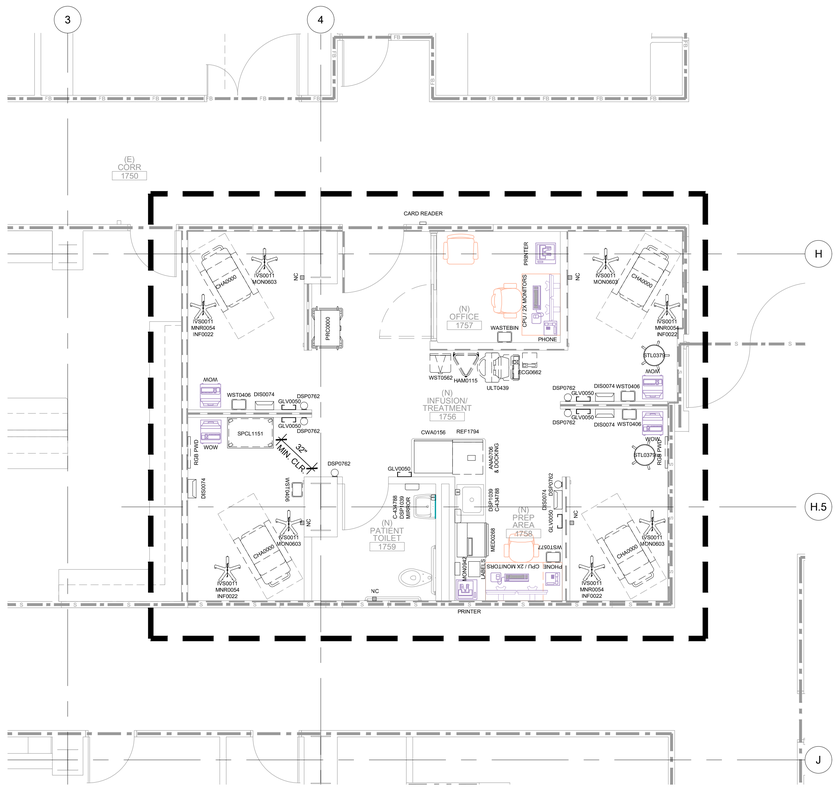
ROOM	ROOM NO.	EQUIP ID	DESCRIPTION	MANUFACTURER	MODEL	ITEM STATUS	FURNISHED BY	INSTALLED BY	MOUNTING	Item Qty	STRUCT.	WEIGHT (LBS.)	DIMENSIONS (W"xD"xH")	REMARKS
Equip.3	1865J	UTC0291	Cart, Utility, Heavy Duty	Global Industrial Equipment Company	Stainless Steel Stock Cart [XB236U5FT]	New	Owner	Owner	3-Mobile, Non-Elect	1			18 x 20 1/2 x 74 3/4	
Control 2 & 3	1865K	CWA0392	Cabinet, Warming, Dual, Freestanding	STERIS Corporation - Healthcare	AMSCO 18 inch Glass Doors w/Electronic Door Locks	New	Owner	Contractor	2-Movable, Elect	1	1/S-604	324	18 x 20 1/2 x 74 3/4	
Control 2 & 3	1865K	SFT0048	Software, Imaging, Workflow	GE Healthcare - Imaging Systems	Xeleris 3 Floating License (XFL)	New	Owner	Vendor	6-ITComputers	1				
Equip.2	1877A	UTC0291	Cart, Utility, Heavy Duty	Global Industrial Equipment Company	Stainless Steel Stock Cart [XB236U5FT]	New	Owner	Owner	3-Mobile, Non-Elect	1			36 x 24 x 35	
Equip.1	1878B	UTC0291	Cart, Utility, Heavy Duty	Global Industrial Equipment Company	Stainless Steel Stock Cart [XB236U5FT]	New	Owner	Owner	3-Mobile, Non-Elect	1			36 x 24 x 35	
Alcove	1878C	DSP0762	Dispenser, Hand Sanitizer, Wall Mount	Ecolab Healthcare North America	Quik-Care 7oz 92022019	New	Owner	Contractor	1-Fixed	1			2.25 x 2.67 x 3.89	
Gurney	1871	STR0453	Stretcher, Procedure / Recovery	Stryker Medical	Prime with Zoom 1125 (3)" Litter)	New	Owner	Owner	3-Mobile, Non-Elect	1			85 x 31 x 34	
Infusion Treatment	1756	ANA0706	Analyzer, Lab, Glucose, Point-of-Care	Nova Biomedical	StatStrip Wireless Glucose Hospital Mtr w/Dock Stn	New	Owner	Owner	2-Movable, Elect	1		0.49	5.8 x 3.1 x 1.18	
Infusion Treatment	1756	CWA0156	Cabinet, Warming, Single, Counter	STERIS Corporation - Healthcare	AMSCO Premium 24 inch Solid Door	New	Owner	Owner	2-Movable, Elect	1	6/S-604	142	24 x 22 7/8 x 33.5	
Infusion Treatment	1756	PRC0000	Cart, Procedure, General		-	New	Owner	Owner	3-Mobile, Non-Elect	1				
Infusion Treatment	1756	SPCL1151	Cart, Supply, Chrome, 36 inch	Distribution Systems International (DSI)	DSI2436W661C (36x24x77)	New	Owner	Owner	3-Mobile, Non-Elect	1	3/S-604	115	24 x 36 x 77	
Infusion Treatment	1756	CHA0000	Chair, Clinical, Recliner			New	Owner	Owner	3-Mobile, Non-Elect	4				
Infusion Treatment	1756	GLV0050	Dispenser, Glove, Triple Box	MarketLab, Inc	ML3615 Acrylic Side-Loading	New	Owner	Contractor	1-Fixed	5			10.125 x 4.125 x 16	
Infusion Treatment	1756	DSP0762	Dispenser, Hand Sanitizer, Wall Mount	Ecolab Healthcare North America	Quik-Care 7oz 92022019	New	Owner	Contractor	1-Fixed	5			2.25 x 2.67 x 3.89	
Infusion Treatment	1756	MED0268	Dispenser, Medication, Host (Main)	BD - Becton, Dickinson and Company	Pyxis MedStation ES (2-Diwr, 2 Cubix)	New	Owner	Vendor	2-Movable, Elect	1		100.7	26.7 x 22.8 x 27.9	
Infusion Treatment	1756	ECG0662	Electrocardiograph (ECG), Interpretive	GE Healthcare - Cardiology	MAC VU360 Resting ECG Workstation w/ Basic Tel3ley	New	Owner	Owner	2-Movable, Elect	1		75.3	20.5 x 23.5 x 57	
Infusion Treatment	1756	HAM0115	Hamper, Linen	Rubbermaid Commercial Products	Premium Step-On Linen Hamper	New	Owner	Owner	3-Mobile, Non-Elect	1			22 1/4 x 20 3/8 x 37 7/8	
Infusion Treatment	1756	MON0603	Monitor, Physiologic, Bedside	Philips Healthcare - Monitoring Systems	IntelliVue MX800	New	Owner	Owner	2-Movable, Elect	4		26.4		
Infusion Treatment	1756	MNR0054	Pump, Infusion, Controller, Modular	BD - Becton, Dickinson and Company	Alaris PC Unit (8015)	New	Owner	Owner	2-Movable, Elect	4		7.2	6.9 x 9 x 8.8	
Infusion Treatment	1756	INF0022	Pump, Infusion, Single	BD - Becton, Dickinson and Company	Alaris Pump Module (8100)	New	Owner	Owner	2-Movable, Elect	4			3.3 x 5.5 x 8.9	
Infusion Treatment	1756	REF1794	Refrigerator, Medical Grade, Undercounter	Follett LLC	REF4P	New	Owner	Contractor	2-Movable, Elect	1		205	23.75 x 25.62 x 31.38	
Infusion Treatment	1756	IVS0011	Stand, IV, Stainless Steel	Pedigo Products, Inc.	P-1576-4 (5-leg, 4-hook)	New	Owner	Owner	3-Mobile, Non-Elect	8				
Infusion Treatment	1756	STL0379	Stool, Exam, Cushion-Seat	Midmark Corporation - Medical	Ritter 278 Air Lift Classic (Foot Release)	New	Owner	Owner	3-Mobile, Non-Elect	2			16.25 x 24.4	
Infusion Treatment	1756	ULT0439	Ultrasound, Imaging, Multipurpose, Portable	FUJIFILM SonoSite, Inc	Edge II with Edge Stand	New	Owner	Owner	2-Movable, Elect	1		9.21	12.8 x 12.1 x 2.5	
Infusion Treatment	1756	WST0642	Waste Can, Bio-Hazardous	Continental Commercial Products	12RD Step-On	New	Owner	Owner	3-Mobile, Non-Elect	1			16.25 x 15.75 x 23.75	
Infusion Treatment	1756	WST0406	Waste Can, Step-On	Rubbermaid Commercial Products	1883552 Slim Jim Resin Front Step-24 Gal Beige	New	Owner	Owner	3-Mobile, Non-Elect	4			22.4 x 13.9 x 32.5	
Nuc Med 1	1878A	GAM0105	Camera, Gamma, SPECT/CT	GE Healthcare - Imaging Systems	NM/CT 870 CZT (16-Slice)	New	Owner	Vendor	1-Fixed	1	1 & 2/S-601			SEE SHEET A831 & GE DWGS. F.A.I.
Nuc Med 1	1878A	C-434788	Dispenser, Paper Towel, Surface Mount	Essity Professional Hygiene North America LLC	552538 Tork PeakServe Mini Continuous Hand	New	Owner	Contractor	1-Fixed	1		6.04	14.4 x 19.3 x 4	
Nuc Med 1	1878A	DSP1039	Dispenser, Soap/Hand/Lotion, Wall Mount (White/Qty 8 in case)	Ecolab Healthcare North America	Nexa Classic Manual 6262-3603	New	Owner	Contractor	1-Fixed	1			2.25 x 2.67 x 3.89	
Nuc Med 1	1878A	DSP0762	Dispenser, Hand Sanitizer, Wall Mount	Ecolab Healthcare North America	Quik-Care 7oz 92022019	New	Owner	Contractor	1-Fixed	1			2.25 x 2.67 x 3.89	
Nuc Med 1	1878A	DIS0074	Disposal, Sharps, Wall Mount	Stericycle	Bio Systems C-03RES-0203-OC	New	Owner	Contractor	1-Fixed	1			14.5 x 5.59 x21.5	
Nuc Med 1	1878A	HAM0115	Hamper, Linen	Rubbermaid Commercial Products	Premium Step-On Linen Hamper	New	Owner	Owner	3-Mobile, Non-Elect	1			22 1/4 x 20 3/8 x 37 7/8	
Nuc Med 1	1878A	MON0603	Monitor, Physiologic, Bedside	Philips Healthcare - Monitoring Systems	IntelliVue MX800	New	Owner	Owner	2-Movable, Elect	1		26.4	18.82 x 14.33 x 5.98	
Nuc Med 1	1878A	MON0942	Monitor, Physiologic, Transport	Philips Healthcare - Monitoring Systems	IntelliVue X3	New	Owner	Owner	2-Movable, Elect	1		3.1	9.8 x 3.8 x 4.4	
Nuc Med 1	1878A	STR0551	Stretcher, Transport	Stryker Medical	Transport 747 (26" Litter) ST104	New	Owner	Owner	3-Mobile, Non-Elect	1				
Nuc Med 2	1877	GAM0109	Camera, Gamma, SPECT/CT	GE Healthcare - Imaging Systems	StarGuide	New	Owner	Vendor	1-Fixed	1	5/S-601, 1 & 2/S-603			SEE SHEET A831 & GE DWGS. F.A.I.
Nuc Med 2	1877	C-434788	Dispenser, Paper Towel, Surface Mount	Essity Professional Hygiene North America LLC	552538 Tork PeakServe Mini Continuous Hand	New	Owner	Contractor	1-Fixed	1		6.04	14.4 x 19.3 x 4	
Nuc Med 2	1877	DSP1039	Dispenser, Soap/Hand/Lotion, Wall Mount (White/Qty 8 in case)	Ecolab Healthcare North America	Nexa Classic Manual 6262-3603	New	Owner	Contractor	1-Fixed	1			2.25 x 2.67 x 3.89	
Nuc Med 2	1877	DSP0762	Dispenser, Hand Sanitizer, Wall Mount	Ecolab Healthcare North America	Quik-Care 7oz 92022019	New	Owner	Contractor	1-Fixed	1			2.25 x 2.67 x 3.89	
Nuc Med 2	1877	DIS0074	Disposal, Sharps, Wall Mount	Stericycle	Bio Systems C-03RES-0203-OC	New	Owner	Contractor	1-Fixed	1			14.5 x 5.59 x21.5	
Nuc Med 2	1877	HAM0115	Hamper, Linen	Rubbermaid Commercial Products	Premium Step-On Linen Hamper	New	Owner	Owner	3-Mobile, Non-Elect	1			22 1/4 x 20 3/8 x 37 7/8	
Nuc Med 2	1877	MON0603	Monitor, Physiologic, Bedside	Philips Healthcare - Monitoring Systems	IntelliVue MX800	New	Owner	Owner	2-Movable, Elect	1		26.4	18.82 x 14.33 x 5.98	
Nuc Med 2	1877	MON0942	Monitor, Physiologic, Transport	Philips Healthcare - Monitoring Systems	IntelliVue X3	New	Owner	Owner	2-Movable, Elect	1		3.1	9.8 x 3.8 x 4.4	
Nuc Med 2	1877	STR0551	Stretcher, Transport	Stryker Medical	Transport 747 (26" Litter) ST104	New	Owner	Owner	3-Mobile, Non-Elect	1			30 x 83 x 36	
Nuc Med 3	1865I	GAM0105	Camera, Gamma, SPECT/CT	GE Healthcare - Imaging Systems	NM/CT 870 CZT (16-Slice)	New	Owner	Vendor	1-Fixed	1	1 & 2/S-602			SEE SHEET A831 & GE DWGS. F.A.I.
Nuc Med 3	1865I	C-434788	Dispenser, Paper Towel, Surface Mount	Essity Professional Hygiene North America LLC	552538 Tork PeakServe Mini Continuous Hand	New	Owner	Contractor	1-Fixed	1		6.04	14.4 x 19.3 x 4	
Nuc Med 3	1865I	DSP1039	Dispenser, Soap/Hand/Lotion, Wall Mount (White/Qty 8 in case)	Ecolab Healthcare North America	Nexa Classic Manual 6262-3603	New	Owner	Contractor	1-Fixed	1			2.25 x 2.67 x 3.89	
Nuc Med 3	1865I	DSP0762	Dispenser, Hand Sanitizer, Wall Mount	Ecolab Healthcare North America	Quik-Care 7oz 92022019	New	Owner	Contractor	1-Fixed	1			2.25 x 2.67 x 3.89	
Nuc Med 3	1865I	DIS0074	Disposal, Sharps, Wall Mount	Stericycle	Bio Systems C-03RES-0203-OC	New	Owner	Contractor	1-Fixed	1			14.5 x 5.59 x21.5	
Nuc Med 3	1865I	HAM0115	Hamper, Linen	Rubbermaid Commercial Products	Premium Step-On Linen Hamper	New	Owner	Owner	3-Mobile, Non-Elect	1			22 1/4 x 20 3/8 x 37 7/8	
Nuc Med 3	1865I	MON0603	Monitor, Physiologic, Bedside	Philips Healthcare - Monitoring Systems	IntelliVue MX800	New	Owner	Owner	2-Movable, Elect	1		26.4	18.82 x 14.33 x 5.98	
Nuc Med 3	1865I	MON0942	Monitor, Physiologic, Transport	Philips Healthcare - Monitoring Systems	IntelliVue X3	New	Owner	Owner	2-Movable, Elect	1		3.1	9.8 x 3.8 x 4.4	
Nuc Med 3	1865I	STR0551	Stretcher, Transport	Stryker Medical	Transport 747 (26" Litter) ST104	New	Owner	Owner	3-Mobile, Non-Elect	1			30 x 83 x 36	
Prep Area	1758	GLV0050	Dispenser, Glove, Triple Box	MarketLab, Inc	ML3615 Acrylic Side-Loading	New	Owner	Contractor	1-Fixed	1			10.125 x 4.125 x 16	
Prep Area	1758	DSP0762	Dispenser, Hand Sanitizer, Wall Mount	Ecolab Healthcare North America	Quik-Care 7oz 92022019	New	Owner	Contractor	1-Fixed	1			2.25 x 2.67 x 3.89	
Prep Area	1758	C-434788	Dispenser, Paper Towel, Surface Mount	Essity Professional Hygiene North America LLC	552538 Tork PeakServe Mini Continuous Hand	New	Owner	Contractor	1-Fixed	1		6.04	14.4 x 19.3 x 4	
Prep Area	1758	DSP1039	Dispenser, Soap/Hand/Lotion, Wall Mount (White/Qty 8 in case)	Ecolab Healthcare North America	Nexa Classic Manual 6262-3603	New	Owner	Contractor	1-Fixed	1			2.25 x 2.67 x 3.89	
Prep Area	1758	DIS0074	Disposal, Sharps, Wall Mount	Stericycle	Bio Systems C-03RES-0203-OC	New	Owner	Contractor	1-Fixed	1			14.5 x 5.59 x21.5	
PT Toilet	1759	C-434788	Dispenser, Paper Towel, Surface Mount	Essity Professional Hygiene North America LLC	552538 Tork PeakServe Mini Continuous Hand	New	Owner	Contractor	1-Fixed	1		6.04	14.4 x 19.3 x 4	
PT Toilet	1759	DSP1039	Dispenser, Soap/Hand/Lotion, Wall Mount (White/Qty 8 in case)	Ecolab Healthcare North America	Nexa Classic Manual 6262-3603	New	Owner	Contractor	1-Fixed	1			2.25 x 2.67 x 3.89	
PT Toilet	1759	WST0577	Waste Can, Step-On	Continental Commercial Products	12BE (12 gal, Beige)	New	Owner	Owner	3-Mobile, Non-Elect	1				
PT Toilet	1876	C-434788	Dispenser, Paper Towel, Surface Mount	Essity Professional Hygiene North America LLC	552538 Tork PeakServe Mini Continuous Hand	New	Owner	Contractor	1-Fixed	1		6.04	14.4 x 19.3 x 4	
PT Toilet	1876	DSP1039	Dispenser, Soap/Hand/Lotion, Wall Mount (White/Qty 8 in case)	Ecolab Healthcare North America	Nexa Classic Manual 6262-3603	New	Owner	Contractor	1-Fixed	1			2.25 x 2.67 x 3.89	
PT Toilet	1876	WST0577	Waste Can, Step-On	Continental Commercial Products	12BE (12 gal, Beige)	New	Owner	Owner	3-Mobile, Non-Elect	1			16.25 x 15.72 x 23.75	
Uptake Room	1874	CHA0000	Chair, Clinical, Recliner			New	Owner	Owner	3-Mobile, Non-Elect	1				
Uptake Room	1874	GLV0050	Dispenser, Glove, Triple Box	MarketLab, Inc	ML3615 Acrylic Side-Loading	New	Owner	Contractor	1-Fixed	1			10.125 x 4.125 x 16	
Uptake Room	1874	DSP0762	Dispenser, Hand Sanitizer, Wall Mount	Ecolab Healthcare North America	Quik-Care 7oz 92022019	New	Owner	Contractor	1-Fixed	1			2.25 x 2.67 x 3.89	
Uptake Room	1874	WST0406	Waste Can, Step-On	Rubbermaid Commercial Products	1883552 Slim Jim Resin Front Step-24 Gal Beige	New	Owner	Owner	3-Mobile, Non-Elect	1			22.4 x 13.9 x 32.5	



1 AREA A - EQUIPMENT PLAN

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

NORTH



1 AREA B - EQUIPMENT PLAN

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

NORTH

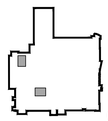
LEGEND:

UNIVERSITY I.T. ITEMS - O.F.O.I.

SYSTEMS FURNITURE, N.I.C. - O.F.O.I.

WALL MOUNTED TOILET ACCESSORIES - C.F.C.I.
SEE INTERIOR ELEVS. F.A.I.

KEYPLAN



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Facilities Design & Construction
4800 2nd Avenue Suite 3010
Sacramento, California 95817
(916)734-7934

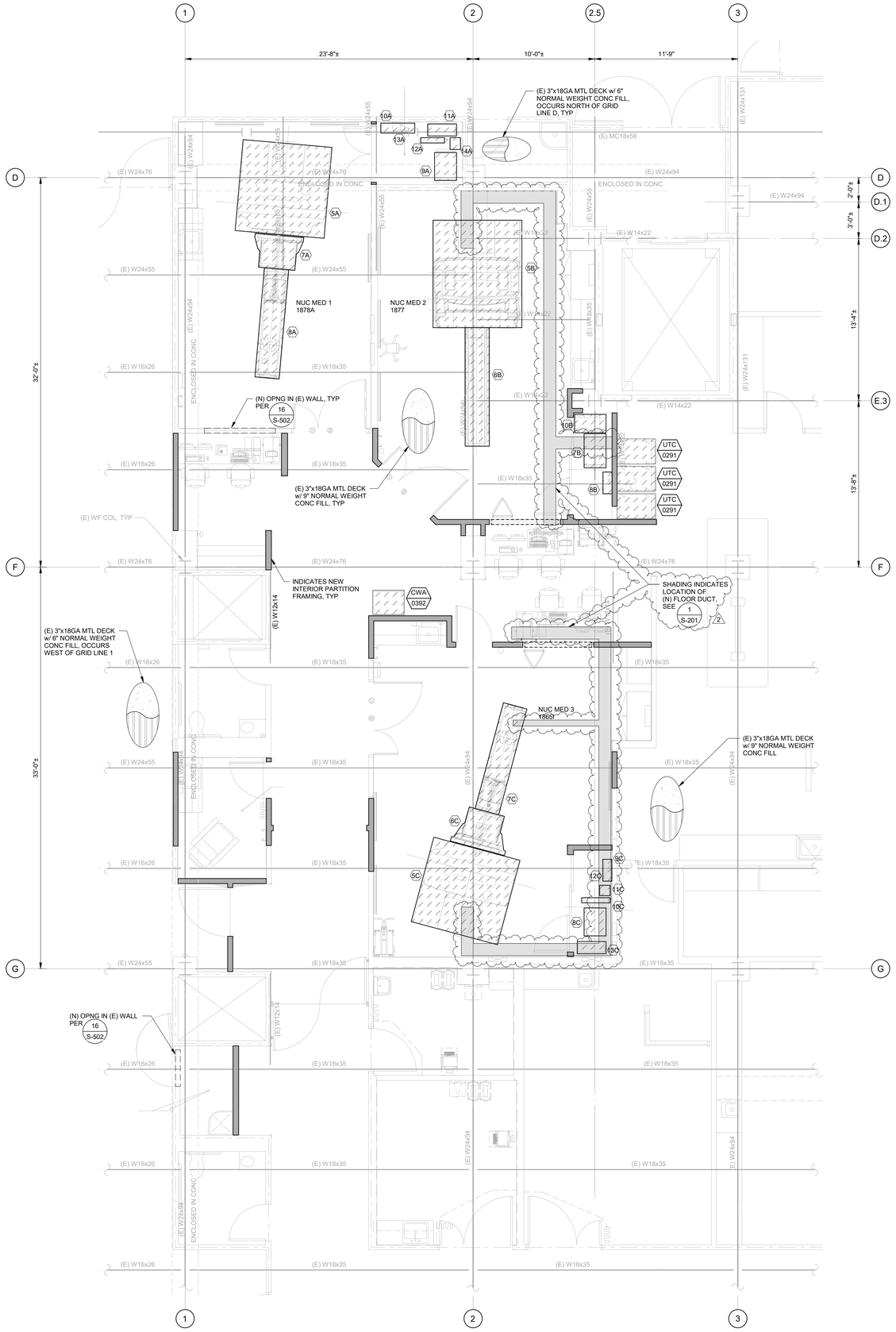
CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
1	HCAI BACKCHECK 01	5/17/2024
2	BID ADDENDA	12/6/2024

CONSTRUCTION DOCUMENTS

ACCOUNT NO. 9557570
OSHPD NO. S240360-34-00
BUILDING: DAVIS TOWER, UNIVERSITY OF CA DAVIS, MEDICAL CENTER
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: DT 1ST FLR RAD NUCLEAR MEDICINE REMODEL
SHEET TITLE: ANCILLARY EQUIPMENT PLAN & SCHEDULE

ARCH./ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath	-	A832
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN	
DESIGNED BY: D.S./S.L.	DATE: 12/21/23	
DRAWN BY: J.F.	CAD FILE: -	SHEET / OF



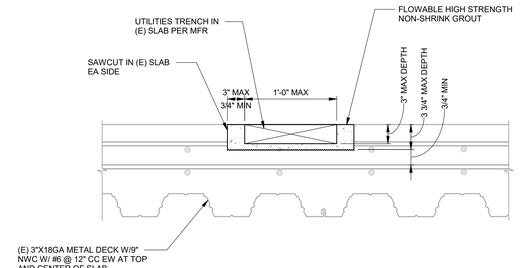
PARTIAL 1ST FLOOR PLAN
AREA A

1/4" = 1'-0"

A S-201

EQUIPMENT SCHEDULE

ID	DESCRIPTION	WT (LBS)	MOUNTING			CLASSIFICATION						ANCHORAGE DETAIL	COMMENTS
			WALL	FLOOR	COUNTERTOP	SUSPENDED	FIXED	MOVABLE	MOBILE	COUNTERTOP	TEMPORARY	INTERIM	OTHER	
NUC MED 1 - 1878A (NM/CT DR)														
3A	OPERATOR CONSOLE	144		X			X							ANCHORAGE DETAIL NOT REQUIRED PER PIN68
5A	CT GANTRY	4167		X			X							1/S-601	
7A	NM GANTRY	4251		X			X							1/S-601	
8A	PATIENT TABLE	1228		X			X							2/S-601	WT DOES NOT INCLUDE PATIENT
9A	POWER DISTRIBUTION UNIT	816		X			X							3/S-601	
10A	POWER INPUT DISTRIBUTION BOX	33	X				X							6/S-601	
11A	PARTIAL UPS	265		X			X							7/S-601	
12A	6kVA UPS	106		X			X							5/S-601	
13A	MAIN DISCONNECT PANEL	115	X				X							4/S-601	
14A	TRANSFORMER FOR 6KVA UPS	77		X			X								
NUC MED 2 - 1877 (STARGUIDE)															
4B	OPERATOR CONSOLE	144		X			X								ANCHORAGE DETAIL NOT REQUIRED PER PIN68
5B	GANTRY	7144		X			X							1/S-602	
6B	PATIENT TABLE	1228		X			X							2/S-602	WT DOES NOT INCLUDE PATIENT
7B	POWER DISTRIBUTION UNIT	816		X			X							3/S-602	
8B	MAIN DISCONNECT PANEL	115	X				X							4/S-602	
10B	PARTIAL UPS 14.4KVA	775		X			X							5/S-602	
NUC MED 3 - 1865I (NM/CT CZT)															
3C	OPERATOR CONSOLE	144		X			X								ANCHORAGE DETAIL NOT REQUIRED PER PIN68
5C	CT GANTRY	4167		X			X							1/S-603	
6C	NM GANTRY	3740		X			X							1/S-603	
7C	PATIENT TABLE	1228		X			X							2/S-603	WT DOES NOT INCLUDE PATIENT
8C	POWER DISTRIBUTION UNIT	816		X			X							3/S-603	
9C	POWER INPUT DISTRIBUTION BOX	33	X				X							6/S-603	
10C	6kVA UPS	106		X			X							5/S-603	
11C	TRANSFORMER FOR 6KVA UPS	77		X			X								
12C	MAIN DISCONNECT PANEL	115	X				X							4/S-603	
13C	PARTIAL UPS	265		X			X							7/S-603	
ANCILLARY EQUIPMENT															
CWA0392	WARMING CABINET, DUAL	324	X				X							1/S-604	WT DOES NOT INCLUDE CONTENTS
UTC0291	UTILITY CART, HEAVY DUTY	400 MAX	X					X							ANCHORAGE DETAIL NOT REQUIRED PER PIN68



NOTES:
1. CONTRACTOR TO DETERMINE LOCATION AND DEPTH OF (E) REBAR IN (E) SLAB PRIOR TO SAWCUTTING.
2. CONTRACTOR TO INSURE BOTTOM ROW OF (E) REINFORCEMENT SHALL NOT BE DAMAGED DURING INSTALLATION.

DETAIL 1 S-201 — 1 1/2" = 1'-0"

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BUEHLER
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916 443 0303

JASON A. PASSALACQUA No. 5382 STRUCTURAL — 12.02.2024

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
2	BID ADDENDA	12/6/2024

CONSTRUCTION DOCUMENTS

ACCOUNT NO: 9557570
OSHPD NO: S240360-34-00
BUILDING: DAVIS TOWER, UNIVERSITY OF CA DAVIS, MEDICAL CENTER
EQUIPMENT: 1ST FLOOR
PROJECT TITLE: DT 1ST FLR RAD NUCLEAR MEDICINE REMODEL
SHEET TITLE: FIRST FLOOR PLAN AREA A

ARCH.\ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath	Y2018.00	S-201
UCDMC PROJECT MANAGER	SCALE	
Z. Price	AS SHOWN	
DESIGNED BY	DATE	
D.S./S.L.	12/21/23	
DRAWN BY	CAD FILE	SHEET OF
J.F.	-	

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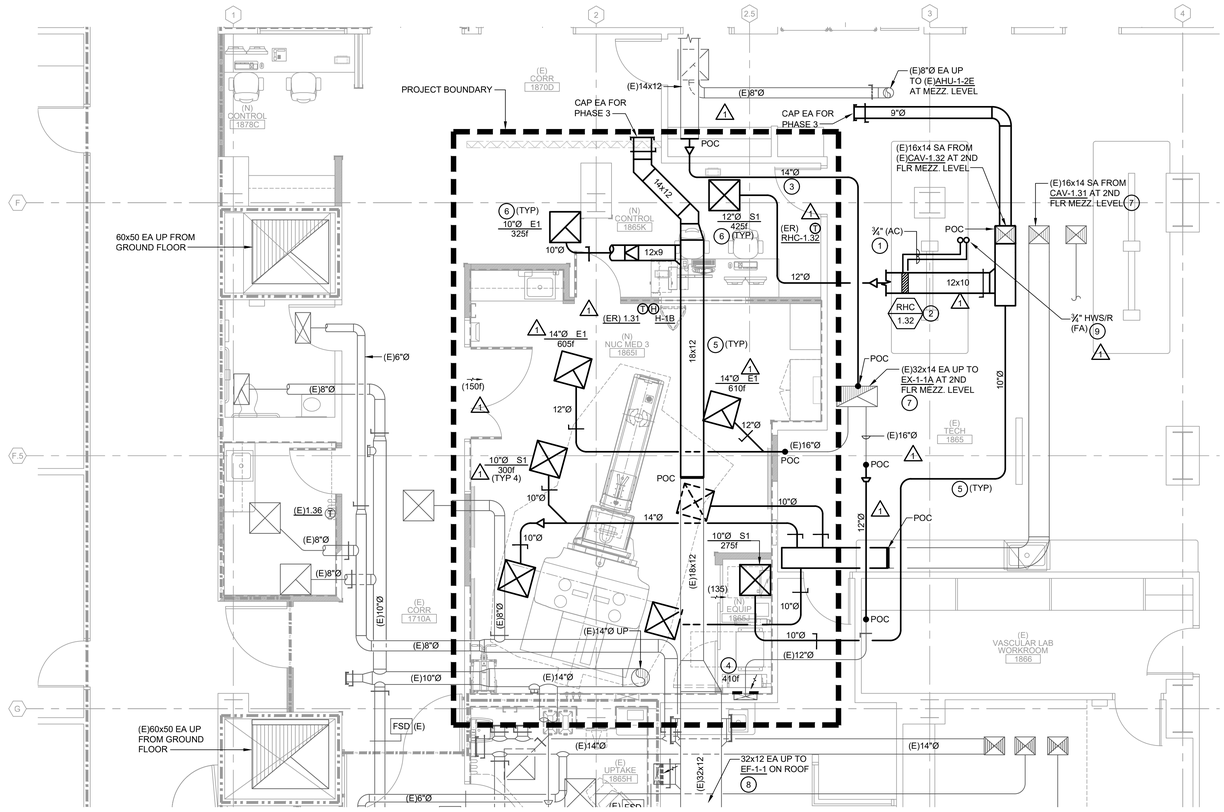
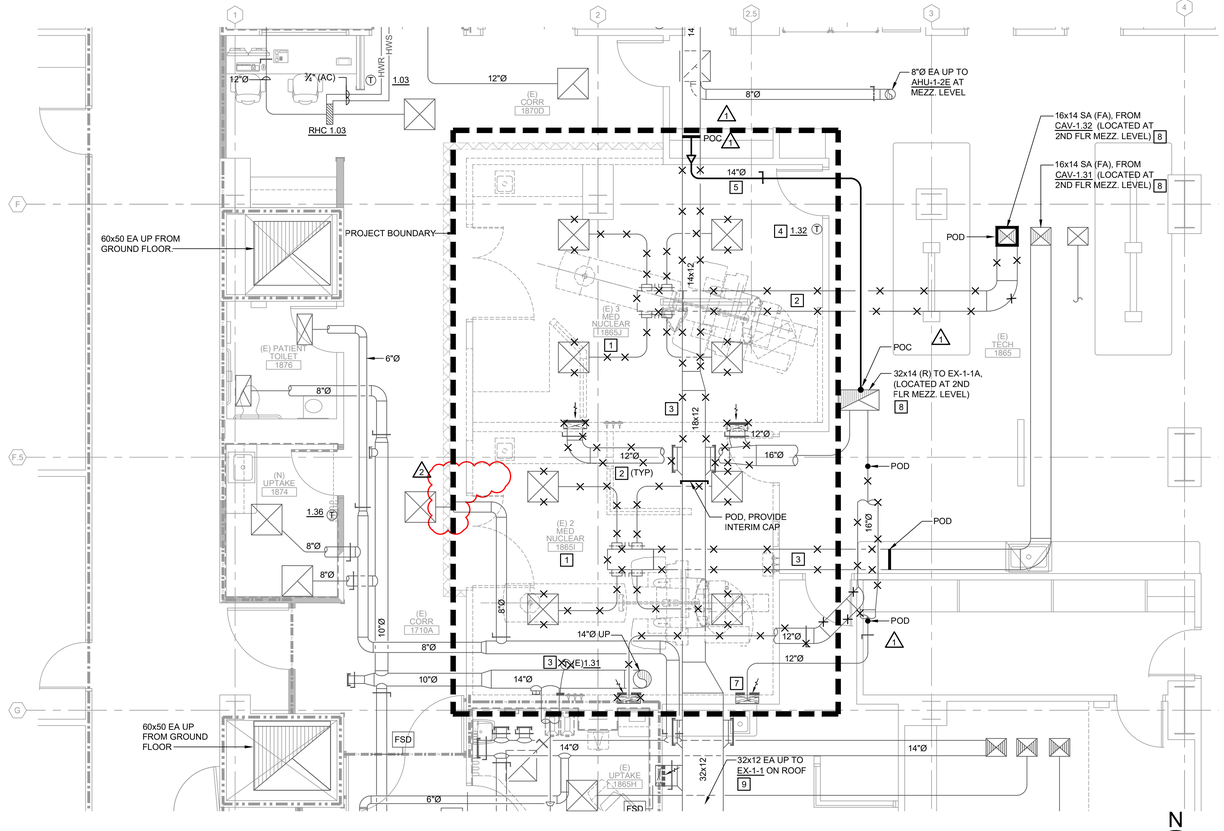


2 AREA A - PHASE 2 MECHANICAL PLAN

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



1 AREA A - PHASE 2 MECHANICAL DEMOLITION PLAN

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

WALL LEGEND

(PER ARCHITECTURAL SHEET A111) ⚠1

- (E) PARTITION TO BE REMOVED
- (E) WALL
- (E) LEAD LINED WALL
- (E) 1 HR. FIRE RATED PARTITION ⚠1
- (E) 1 HR. FIRE RATED BARRIER
- (E) 1 HR. SMOKE BARRIER
- (E) 2 HR. FIRE BARRIER
- (E) 4 HR BARRIER
- PARTIAL HEIGHT LEADED WALL W/ GLAZING
- LEAD PARTITION
- PARTITION
- 1 HR. FIRE RATED PARTITION ⚠1
- 1 HR. FIRE RATED BARRIER
- 1 HR. SMOKE BARRIER
- TEMP. CONSTRUCTION BARRIER
- TEMP. VISQUEEN CONSTRUCTION BARRIER

DEMOLITION SHEET NOTES

1. PRIOR TO DEMOLITION REFER TO PHASE 1 AIR BALANCE REQUIREMENTS ON SHEETS M112 & M114.
2. DEMOLISH DUCTWORK, REGISTERS, GRILLES, HANGERS AND RELATED APPURTENANCES.
3. REMOVE AND RETAIN (E) THERMOSTAT 1.31 TO BE RELOCATED, FOR NEW LOCATION SEE 2/M511B.
4. REMOVE AND RETAIN (E) THERMOSTAT 1.32 AS NEEDED TO FACILITATE DEMOLITION AND NEW WORK. REINSTALL AT NEW LOCATION AND REDIRECT CONTROL TO NEW REHEAT COIL PER NEW WORK PLAN 1/M511B.
5. PRIOR TO DEMOLITION OF DUCTWORK PROVIDE 14"Ø BACK-FEED EXHAUST AIR DUCT TO SERVE AREA TO REMAIN OCCUPIED. COORDINATE WITH FACILITY PERSONNEL FOR MINIMAL SHUTDOWN FOR TIE-IN. ⚠1 BALANCE DUCT TO THE PRE MEASURED AIRFLOW TAKEN PER SHEET M112.
6. NOT USED ⚠2
7. REMOVE AND RETAIN EXISTING 16x12 EXHAUST GRILLE AS REQUIRED TO ACCOMMODATE WALL REWORK. REFURBISH AND REINSTALL PER NEW PLAN PHASE 2.
8. FOR CONTINUATION OF ALL DUCTS & PIPES UP TO 2ND FLOOR MEZZANINE ABOVE SEE 1/M513.
9. FOR CONTINUATION OF (E) EXHAUST DUCT TO EF-1-1, (LOCATED ON ROOF) SEE AIR BALANCE PLAN M112.

NEW WORK SHEET NOTES

1. INSTALL NEW HWS/R ABOVE CEILING. DO NOT ROUTE HYDRONIC LINES ABOVE EQUIPMENT. FOR PIPE SUPPORT DETAILS SEE 1/M602.
2. INSTALL NEW REHEAT COIL AT THIS LOCATION FOR PIPING DIAGRAM SEE DETAIL 6/M601. FOR MOUNTING DETAIL SEE 7/M601.
3. PRIOR TO DEMOLITION INSTALL NEW 14"Ø EXHAUST DUCT TO PROVIDE EXHAUST, TO AREA WHICH IS REMAIN OCCUPIED. COORDINATE WITH UNIVERSITY PERSONNEL ⚠1 FOR LIMITED SHUTDOWN FOR TIE-IN. BALANCE DUCT TO THE PRE MEASURED AIR FLOWS TAKEN PER SHEET M112.
4. REINSTALL RETAINED EXHAUST GRILLE AND BALANCE TO CFM INDICATED.
5. FOR DUCT SUPPORT DETAILS SEE 5/M601.
6. FOR DIFFUSER/GRILLE MOUNTING DETAILS SEE 1/M601.
7. FOR CONTINUATION OF ALL (E) & (N) DUCTS & PIPES UP TO 2ND FLOOR MEZZANINE ABOVE SEE 1/M514.
8. FOR CONTINUATION OF (E) EXHAUST DUCT TO EF-1-1 ON ROOF, SEE AIR BALANCE PLAN M112. ⚠1
9. SUPPORT PIPES THROUGH FLOOR PER DETAIL 2/M602.

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R&A Job Number: N1A12620
PM: SSC Designer/Drafter: DAC

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
1	HCAI BACKCHECK 01	5/17/2024
2	ADDENDUM 1	12/06/2024

CONSTRUCTION DOCUMENTS

ACCOUNT NO.: 9557570
OSHPD NO.: S240360-34-00
BUILDING: DAVIS TOWER, UNIVERSITY OF CA DAVIS, MEDICAL CENTER
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: DT 1ST FLR RAD NUCLEAR MEDICINE REMODEL AREA A - PHASE 2 - FIRST FLOOR DEMOLITION AND NEW MECHANICAL PLANS
SHEET TITLE:

KEYPLAN

ARCH./ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath	-	M511B
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN	
DESIGNED BY: SSC	DATE: 12/21/23	
DRAWN BY: DAC	CAD FILE: -	SHEET / OF

WALL LEGEND
(PER ARCHITECTURAL SHEET A111) ⚠1

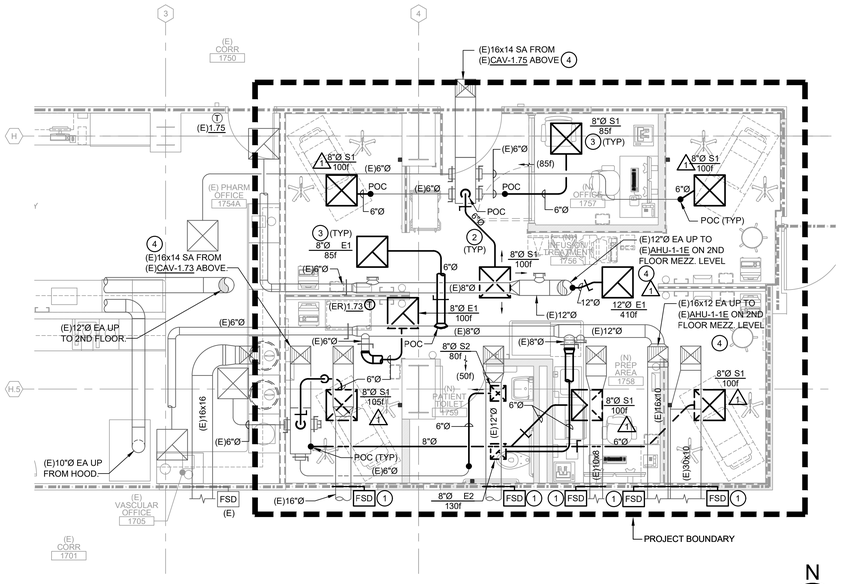
- (E) PARTITION TO BE REMOVED
- (E) WALL
- (E) LEAD LINED WALL
- (E) 1 HR. FIRE RATED PARTITION ⚠1
- (E) 1 HR. FIRE RATED BARRIER
- (E) 1 HR. SMOKE BARRIER
- (E) 2 HR. FIRE BARRIER
- (E) 4 HR BARRIER
- PARTIAL HEIGHT LEADED WALL W/ GLAZING
- LEAD PARTITION
- PARTITION
- 1 HR. FIRE RATED PARTITION ⚠1
- 1 HR. FIRE RATED BARRIER
- 1 HR. SMOKE BARRIER
- TEMP. CONSTRUCTION BARRIER
- TEMP. VISQUEEN CONSTRUCTION BARRIER

NEW WORK SHEET NOTES

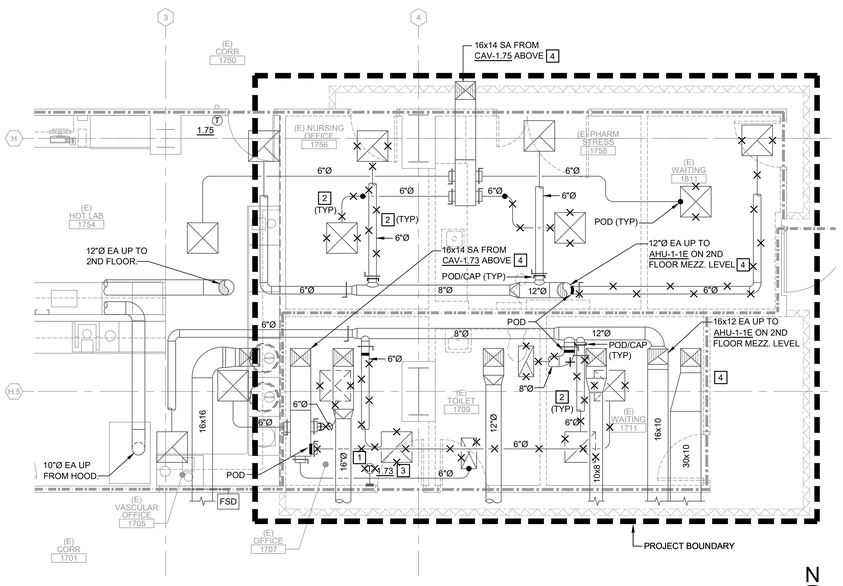
1. NEW COMBINATION FIRE/SMOKE DAMPER. FOR DETAILS SEE, 3 & 4/M601.
2. FOR DUCT SUPPORT DETAILS, SEE 5/M601.
3. FOR DIFFUSER/GRILLE MOUNTING DETAIL, SEE 1/M601.
4. FOR CONTINUATION OF ALL (E) & (N) DUCTS & PIPES UP TO 2ND FLOOR MEZZANINE ABOVE, SEE 1/M514.

DEMOLITION SHEET NOTES

1. PRIOR TO DEMOLITION, REFER TO PHASE 1 AIR BALANCE REQUIREMENTS ON SHEETS M111 & M114.
2. DEMOLISH DUCTWORK, REGISTERS, GRILLES, HANGERS AND RELATED APPURTENANCES.
3. REMOVE AND RETAIN THERMOSTAT 1.73, REINSTALL AT NEW LOCATION PER NEW WORK PLAN.
4. FOR CONTINUATION OF ALL DUCTS AND PIPES UP TO 2ND FLOOR MEZZANINE ABOVE, SEE 1/M513. ⚠2



2 AREA B - PARTIAL FIRST FLOOR MECHANICAL PLAN
SCALE: 1/4" = 1'-0"



1 AREA B - PARTIAL FIRST FLOOR MECHANICAL DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

KEYPLAN

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R&A Job Number: NA172420
PM: SSC Designer/Drafter: DAC

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
1	HCAI BACKCHECK 01	5/17/2024
2	ADDENDUM 1	12/06/2024

CONSTRUCTION DOCUMENTS

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CDPH NO: S240360-34-00
BUILDING: DAVIS TOWER, UNIVERSITY OF CA DAVIS, MEDICAL CENTER
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: DT 1ST FLR RAD NUCLEAR MEDICINE REMODEL
SHEET TITLE: AREA B - PARTIAL FIRST FLOOR DEMOLITION AND NEW MECHANICAL PLANS

ARCH \ ENGR: J. Flath	FD&C JOB NO.: -	SHEET NO.: M512	
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN		
DESIGNED BY: SSC	DATE: 12/21/23		
DRAWN BY: DAC	CAD FILE: -	SHEET	OF

SHEET INDEX

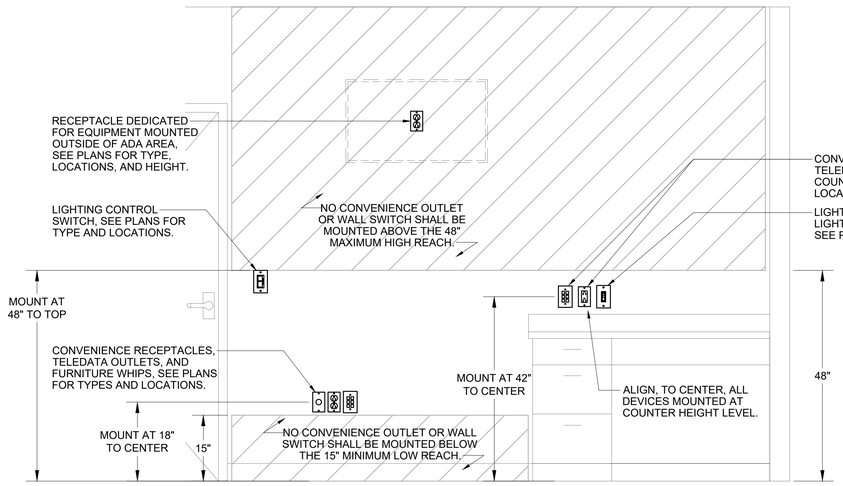
SHEET	DESCRIPTION
E001	ABBREVIATIONS, SYMBOLS, NOTES, AND SHEET INDEX
E111	OVERALL FIRST FLOOR PLAN - ELECTRICAL
E112	OVERALL SECOND FLOOR PLAN - ELECTRICAL
E201	PDC DRAWINGS
E202	PDC DRAWINGS
E203	PDC DRAWINGS
E204	PDC DRAWINGS
E205	PDC DRAWINGS
E206	PDC DRAWINGS 1
E207	PDC DRAWINGS
E311A	AREA A PHASE 1 - NUC MED #1 IMAGING EQUIPMENT PLAN AND NOTES
E311B	AREA A PHASE 1 - NUC MED #1 IMAGING EQUIPMENT PLAN AND NOTES
E312A	AREA A PHASE 2 - NUC MED #3 IMAGING EQUIPMENT PLAN AND NOTES
E312B	AREA A PHASE 2 - NUC MED #3 IMAGING EQUIPMENT PLAN AND NOTES
E313A	AREA A PHASE 3 - NUC MED #2 IMAGING EQUIPMENT PLAN AND NOTES
E313B	AREA A PHASE 3 - NUC MED #2 IMAGING EQUIPMENT PLAN AND NOTES
E511A	AREA A ENLARGED FIRST FLOOR PLAN - PHASE 1 POWER & SIGNAL
E511B	AREA A ENLARGED FIRST FLOOR PLAN - PHASE 2 POWER & SIGNAL
E511C	AREA A ENLARGED FIRST FLOOR PLAN - PHASE 3 POWER & SIGNAL
E512	AREA B ENLARGED FIRST FLOOR PLAN - POWER & SIGNAL
E541A	AREA A ENLARGED FIRST FLOOR PLAN - PHASE 1 LIGHTING
E541B	AREA A ENLARGED FIRST FLOOR PLAN - PHASE 2 LIGHTING
E541C	AREA A ENLARGED FIRST FLOOR PLAN - PHASE 3 LIGHTING
E542	AREA B ENLARGED FIRST FLOOR PLAN - LIGHTING & LUMINAIRE SCHEDULE
E601	ONE LINE DIAGRAM
E602	TIME-CURRENT CURVES AND NOTES
E701	PANEL SCHEDULES
E702	PANEL SCHEDULES
E801	DETAILS
E802	DETAILS
E803	DETAILS
E804	DETAILS
E805	DETAILS
E806	DETAILS

ABBREVIATIONS

1PH, 3PH	1 PHASE, 3 PHASE
1P, 2P, 3P	1 POLE, 2 POLE, 3 POLE
3W, 4W	3 WIRE, 4 WIRE
(D)	DEMO, DEMOLISH
(E)	EXISTING
(ER)	EXISTING RELOCATED
(N)	NEW
(R)	RELOCATE
-A-	
A, AMPS	AMPERES
AC	ALTERNATING CURRENT
AF	FRAME RATING IN AMPERES
AFF	ABOVE FINISHED FLOOR
AIC	AMPERES INTERRUPTING CAPACITY
AL, ALUM	ALUMINUM
ATS	AUTO TRANSFER SWITCH
AT	TRIP RATING IN AMPERES
AWG	AMERICAN WIRE GAUGE
-B-	
BTR	BUILDING TELECOM ROOM
-C-	
C	CONDUIT
CB,C/B	CIRCUIT BREAKER
CEC	CALIFORNIA ELECTRICAL CODE
CT	CURRENT TRANSFORMER
CU	COPPER
-D-	
DC	DIRECT CURRENT
-E-	
EA	EACH
ELEC	ELECTRICAL
EMT	ELECTRICAL METALLIC TUBING
-F-	
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
FLA	FULL LOAD AMPS
FT	FOOT OR FEET
-G-	
G, GND	GROUND
GA	GAUGE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
-H-	
HOA	HAND-OFF-AUTO
HP	HORSE POWER
-J-	
J-BOX	JUNCTION BOX
-K-	
KVA	ONE THOUSAND VOLT-AMPS
KW	ONE THOUSAND WATTS
-L-	
LCP	LIGHTING CONTROL PANEL
LTG	LIGHTING
-M-	
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVER-CURRENT PROTECTION
MT	EMPTY CONDUIT W/ PULL-LINE
-N-	
NC	NORMALLY CLOSED
NCTC	NURSE CALL TERMINAL CABINET
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER ASSOCIATION
NIES	NOT INCLUDED IN ELECTRICAL SCOPE
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
-O-	
OCP	OVER-CURRENT PROTECTION
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED 1
-P-	
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE CONDUIT
-R-	
RLA	RUNNING LOAD AMP
RSC	RIGID STEEL CONDUIT
-S-	
SPD	SURGE PROTECTION DEVICE
SPDT	SINGLE POLE DOUBLE THROW
SPST	SINGLE POLE SINGLE THROW
SST	SOLID STATE TRIP
-T-	
TER	TELECOM EQUIPMENT ROOM
TR	TELECOM ROOM
TM	THERMAL MAGNETIC
TTB	TERMINAL BACKBOARD
-U-	
UG	UNDERGROUND
UL	UNDERWRITERS LAB.
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
-V-	
V	VOLTS
VA	VOLT-AMPS
VAC	VOLTS ALTERNATE CURRENT
-W-	
W	WATTS
WP	WEATHERPROOF
-X-	
XFMR	TRANSFORMER
XFER	TRANSFER SWITCH

GENERAL ELECTRICAL NOTES

1. WHERE PROVIDED, THROUGH-PENETRATION FIRESTOP SYSTEM AND MEMBRANE PENETRATION DETAILS SHOW IN THE DETAILS ARE FOR REFERENCE ONLY. 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. LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS, MEMBRANE PENETRATION PROTECTION AND OTHER PERMITTED MEANS AND METHODS OF PENETRATION PROTECTION SHALL BE SUBMITTED FOR OSHPD FDD REVIEW AND APPROVAL PRIOR TO INSTALLATION.
2. ALL ELECTRICAL EQUIPMENT TO BE INSTALLED OR PERMANENTLY CONNECTED (HARDWIRED) SHALL BE LISTED, LABELED, OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) PER CEC 110.2.
3. ALL EQUIPMENT SHALL BE USED IN ACCORDANCE WITH LISTING PER CEC 110.3B.



NOTES:

1. CONVENIENCE RECEPTACLE, TELEDATA OUTLET, AND LIGHTING CONTROL SWITCHES SHALL BE WITHIN ADA REACH. BOTTOM OF DEVICE SHALL NOT BE LOWER THAN 15" AFF. TOP OF DEVICE SHALL NOT BE HIGHER THAN 48" AFF.
2. NURSE CALL DEVICES, CONVENIENCE RECEPTACLES, TELEDATA OUTLETS, AND LIGHTING CONTROL DEVICES MOUNTED ABOVE COUNTER, SINK, OR OTHER OBSTRUCTION SHALL HAVE TOP OF THE OPERABLE PARTS NOT EXCEEDING 44", 46", OR 48" PER CBC 11B-308.2.2 OR 11B-308.3.2.

1 DEVICE MOUNTING DETAIL

NO SCALE

LIGHTING SYMBOLS

SYMBOL	DESCRIPTION
	RECESSED MOUNTED LUMINAIRE.
2	(E) RECESSED MOUNTED LUMINAIRE AT GYPSUM BOARD CEILING.
	SURFACE MOUNTED LUMINAIRE.
	WALL MOUNTED LUMINAIRE.
	RECESSED DOWNLIGHT LUMINAIRE.
	CEILING OR WALL MOUNTED ILLUMINATED EXIT SIGN W/ DIRECTIONAL ARROWS NOTED ON PLANS. WORD 'EXIT' TO BE LOCATED IN SHADED FACE(S)
	LUMINAIRE SHADING INDICATES LUMINAIRE CONNECTED TO EMERGENCY OR BATTERY POWER SOURCE.
	(E) WALL MOUNTED LUMINAIRE.
S	SINGLE POLE TOGGLE SWITCH, MOUNTED +48" MAX AFF TO TOP OF BOX. SEE FLOOR PLANS AND DEVICE MOUNTING DETAILS ON THIS SHEET FOR ADDITIONAL MOUNTING HEIGHT REQUIREMENT.
	WALL MOUNTED SINGLE POLE WIRELESS DIMMER, POWERED THRU 120V OR 277V CIRCUIT INDICATED ON PLANS. nLIGHT AIR #rPODLA DX MVOLT "--" G2 ("WH" NORMAL, "RD" EMERGENCY)

FIRE ALARM SYMBOLS

SYMBOL	DESCRIPTION
FSD	FIRE/SMOKE DAMPER WITH DISCONNECT SWITCH THAT HAS AN INTERNAL PILOT LIGHT, PROVIDED UNDER ANOTHER DIVISION. CONTRACTOR SHALL INSTALL AND CONNECT AS REQUIRED.

TELECOM SYMBOLS 1

SYMBOL	DESCRIPTION
2	DATA OUTLET. PROVIDE 4 11/16" SQUARE X 2 1/2" DEEP BOX W/ 1-DEVICE RING AND PLATE. STUB 1 1/4" CONDUIT WITH 90 DEGREE BEND INTO ACCESSIBLE CEILING SPACE. TERMINATE W/ INSULATED BUSHING. PROVIDE (3) ACTIVE NETWORK PORTS / DROPS, UON.
WAP	(E) WIRELESS ACCESS POINT, SURFACE MOUNTED.
	FLUSH MOUNTED INTERIOR CEILING SPEAKERS FOR OVERHEAD PAGING SYSTEM, CONTRACTOR SHALL INSTALL AND CONNECT AS REQUIRED. SEE REQUIREMENTS PER DIVISION/SECTION 27 51 16.
	CLOCK, 120V, SEE REQUIREMENTS PER DIVISION/SECTION 27 53 13.

STANDARD ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
XX	NUMBERED NOTE.
	ENLARGED PLAN OR DETAIL CALL-OUT.
T	(E) TRANSFORMER.
	(E) CIRCUIT BREAKER.
	(E) BRANCH CIRCUIT PANELBOARD, SURFACE MOUNTED.
	(E) BRANCH CIRCUIT PANELBOARD, FLUSH MOUNTED.
60A/3P/45T	THERMAL MAGNETIC CIRCUIT BREAKER W/ SURFACE MOUNTED WALL ENCLOSURE. NUMBER ADJACENT INDICATES AMPERE RATING OF ENCLOSURE / POLES / BREAKER RATING.
	20 AMP 125V 3W DUPLEX CONVENIENCE RECEPTACLE.
	20 AMP 125V 3W DUPLEX CONVENIENCE RECEPTACLE. CONNECT TO EMERGENCY POWER SOURCE.
	20 AMP 125V 3W DOUBLE DUPLEX CONVENIENCE RECEPTACLE.
	20 AMP 125V 3W DOUBLE DUPLEX CONVENIENCE RECEPTACLE. CONNECT TO EMERGENCY POWER SOURCE.
	20 AMP 125V 3W DUPLEX CONVENIENCE RECEPTACLE W/ GROUND FAULT INTERRUPTER.
	20 AMP 125V 3W DUPLEX CONVENIENCE RECEPTACLE W/ GROUND FAULT INTERRUPTER. CONNECT TO EMERGENCY POWER SOURCE.
	20 AMP 125V 3W DOUBLE DUPLEX CONVENIENCE RECEPTACLE W/ GROUND FAULT INTERRUPTER.
	JUNCTION BOX, SIZE AND TYPE AS INDICATED OR REQUIRED.
	EMERGENCY POWER OFF, SEE SHEETS E311A, E312A, & E313A.
P	(E) ELECTRIFIED MODULAR SYSTEM FURNITURE POWER FEED.
SUBSCRIPTS: c	DEVICE SUBSCRIPTS DESIGNATE THE FOLLOWING: = ABOVE COUNTER MOUNTED AT 42" TO CENTER OF BOX
IC	(E) INTERCOM.
C	(E) WALL OR CEILING MOUNTED CAMERA.
	CONTROL AND/OR EQUIPMENT, PROVIDED UNDER ANOTHER DIVISION, PROVIDE POWER CONNECTION AS INDICATED.
X	NON FUSED DISCONNECT SWITCH. NUMBER ADJACENT INDICATES AMPERE RATING OF SWITCH. MOUNT AT +48" AFF TO TOP OF DISCONNECT.

RACEWAY SYMBOLS

SYMBOL	DESCRIPTION
	RACEWAY INSTALLED IN CEILING OR WALL. ROUTE EXPOSED IN ALL UNFINISHED AREAS.
X	EXISTING CONDUIT RUN TO BE ABANDONED. CONDUIT ABOVE THE FLOOR AND BELOW THE STRUCTURE ABOVE SHALL BE REMOVED. CONDUCTORS SHALL BE REMOVED.
	EXISTING CONDUIT RUN, VERIFY ROUTING ON THE JOB.
H	REMOVE (E) WIRE, PULL IN NEW WIRES, #12 AWG UNLESS NOTED.
	ARROW AT END OF RACEWAY INDICATES HOME RUN TO RESPECTIVE PANELBOARD OR SWITCHBOARD.
	BRANCH CIRCUIT WITHOUT FURTHER DESIGNATION INDICATES A 2 #12 AWG CIRCUIT WITH 1 #12 AWG GROUND.
	STRAIGHT CROSS-LINES IN BRANCH CIRCUIT RACEWAY INDICATE NUMBER OF #12 AWG WIRES IN A CIRCUIT. SHORT LINES INDICATE UNGROUNDED CONDUCTORS. LONG LINES INDICATE NEUTRAL CONDUCTORS. WIRES SHOWN ARE IN ADDITION TO 1 #12 AWG GROUNDING CONDUCTOR.
#10	BRANCH CIRCUIT WITH GROUNDING WIRE LARGER THAN #12 AWG. NUMBER ADJACENT TO CURVED CROSS-LINE INDICATES WIRE SIZE.
#10	BRANCH CIRCUIT RACEWAY WITH WIRE OTHER THAN #12 AWG. NUMBER ADJACENT TO STRAIGHT OR CURVED CROSS-LINES INDICATES WIRE SIZE. UNGROUNDED AND NEUTRAL CONDUCTORS SHALL BE THE SAME SIZE UNLESS OTHERWISE NOTED.

NURSE CALL SYMBOLS (*)

SYMBOL	DESCRIPTION
*	CONTRACTOR SHALL HIRE NURSE CALL VENDOR TO PROVIDE INSTALLATION & PROGRAMMING OF (N) NURSE CALL DEVICES. SHOP DRAWINGS MUST BE SENT TO ELECTRICAL ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
M	(E) WALL-MOUNTED NURSE CALL MASTER STATION, LEGACY WEST-CALL SYSTEM. CONFIRM W/ WEST-CALL IF ADDITIONAL DEVICES MAY BE ADDED.
SL	(E) REGISTER/STATUS STATION SHALL BE DEMOLISHED.
D	CEILING OR WALL MOUNTED NURSE CALL DOME LIGHT.
Z	CEILING OR WALL MOUNTED NURSE CALL ZONE LIGHT.
PC	EMERGENCY PULL CORD STATION FOR TOILET, LOCATED WITHIN 12" OF THE FRONT OF TOILET BOWL. PROVIDE 4 11/16" SQUARE X 2 1/8" DEEP BOX W/ 1-DEVICE RING AND PLATE. FOR WALL MOUNTED DEVICES, STUB 1 1/4" CONDUIT INTO ACCESSIBLE CEILING SPACE. PULL CORD SHALL EXTEND TO +12" MAX AFF.
CB	CODE BLUE STATION. PROVIDE 4 11/16" SQUARE X 2 1/8" DEEP BOX W/ 1-DEVICE RING AND PLATE. FOR WALL MOUNTED DEVICES, STUB 1 1/4" CONDUIT TO ACCESSIBLE CEILING SPACE.
SE	STAFF EMERGENCY STATION. PROVIDE 4 11/16" SQUARE X 2 1/8" DEEP BOX W/ 1-DEVICE RING AND PLATE. FOR WALL MOUNTED DEVICES, STUB 1" CONDUIT INTO ACCESSIBLE CEILING SPACE.
DS	DUTY STATION. PROVIDE 3 GANG (NON-GANGABLE) X 3 1/2" DEEP BOX. 3 GANG ADAPTER PLATE PROVIDED W/ DUTY STATION. FOR WALL MOUNTED DEVICES, STUB 1 1/4" CONDUIT INTO ACCESSIBLE CEILING SPACE.

DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

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600 Q Street, Suite 100
Sacramento, CA 95811
www.nachtlewis.com
916.329.4000

DESIGN PROFESSIONALS OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE SUITE 3010
SACRAMENTO, CALIFORNIA 95817
(916)734-7934

CONSULTANT LOGO:
EDGE ELECTRICAL DISTRIBUTION
Project Number H020
Contact Lai Vo
400 R Street, Ste 333
Sacramento, CA 95811
916.256.2460
Sacramento | Alameda | Irvine

REV	REVISION DESCRIPTION	DATE
1	HCAI BACKCHECK 01	5/17/2024
2	BID ADDENDA	12/6/2024

CONSTRUCTION DOCUMENTS

ARCHITECT NO. 9557570
OSHPD NO. S240360-34-00
BUILDING: DAVIS TOWER, UNIVERSITY OF CA DAVIS, MEDICAL CENTER
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: DT 1ST FLR RAD NUCLEAR MEDICINE REMODEL
SHEET TITLE: ABBREVIATIONS, SYMBOLS, NOTES, AND SHEET INDEX

ARCH \ ENGR: G. Wong	FD&C JOB NO.: -	SHEET NO.: E001	
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN		
DESIGNED BY: L.Vo	DATE: 12/21/23		
DRAWN BY: A. Le	CAD FILE: -	SHEET	OF

CONNECTIVITY REQUIREMENTS

Your new GE Healthcare imaging modality will require local and remote connectivity to enable our full range of digital support:

- Local connectivity - This allows your system to connect to local devices such as PACS and modality worklist. We will require network information to configure the system(s), and a live ethernet port(s) prior to the delivery of the system(s).
- Remote connectivity - Your GE Healthcare service warranty includes InSite™ (applicable to InSite capable products), a powerful broadband-based service which enables digital tools that can help guard your hospital against equipment downtime and revenue loss by quickly connecting you to a GE Healthcare expert.

Depending on product family and software version, imaging systems can be connected in one of the following methods:

1. TLS over TCP Port 443 (Preferred method for new products) via:
   a. DNS resolution
   b. KPIT-provided Proxy or
   c. GE Proxy (Available in some regions)
2. Site-to-Site IPsec VPN tunnel

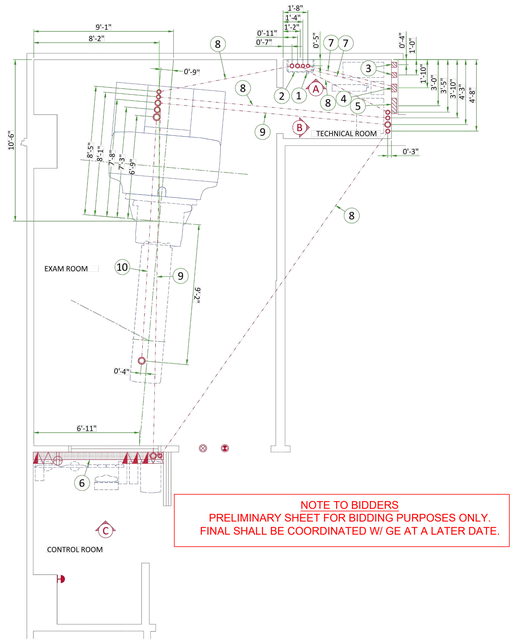
Please provide the GE project manager with the contact information for the resource that can provide information required to set up these connections. GEHC will send out communication to these contacts, which will include the project's Connectivity requirements, and a Connectivity form. This form will need to be completed and returned to GEHC prior to delivery of the system to ensure the system is tested and connectivity is enabled prior to the completion of the installation.

ELECTRICAL NOTES

1. All wires specified shall be copper stranded, flexible, thermo-plastic, color coded, cut 10 foot long at outlet boxes, duct termination points or stubbed conduit ends. All conductors, power, signal and ground, must be run in a conduit or duct system. Electrical contractor shall ring out and tag all wires at both ends. Wire runs must be continuous copper stranded and free from splices.
1.1. Aluminum or solid wires are not allowed.
2. Wire sizes given are for use of equipment. Larger sizes may be required by local codes.
3. It is recommended that all wires be color coded, as required in accordance with national and local electrical codes.
4. Conduit sizes shall be verified by the architect, electrical engineer or contractor, in accordance with local or national codes.
5. Convenience outlets are not illustrated. Their number and location are to be specified by others. Locate at least one convenience outlet close to the system control, the power distribution unit and one on each wall of the procedure room. Use hospital approved outlet or equivalent.
6. General room illumination is not illustrated. Caution should be taken to avoid excessive heat from overhead spotlights. Damage can occur to ceiling mounting components and wiring if high wattage bulbs are used. Recommend low wattage bulbs no higher than 75 watts and use dimmer controls (except MR). Do not mount lights directly above areas where ceiling mounted accessories will be parked.
7. Routing of cable ductwork, conduits, etc., must run direct as possible otherwise may result in the need for greater than standard cable lengths (refer to the interconnection diagram for maximum usable lengths point to point).
8. Conduit turns to have large, sweeping bends with minimum radius in accordance with national and local electrical codes.
9. A special grounding system is required in all procedure rooms by some national and local codes. It is recommended in areas where patients might be examined or treated under present, future, or emergency conditions. Consult the governing electrical code and confer with appropriate hospital administrative personnel to determine the areas requiring this type of grounding system.
10. The maximum point to point distances illustrated on this drawing must not be exceeded.
11. Physical connection of primary power to GE equipment is to be made by electrical contractor with the supervision of a GE representative. The GE representative would be required to identify the physical connection location, and insure proper handling of GE equipment.
12. GEHC conducts power audits to verify quality of power being delivered to the system. The electrical contractor is required to be available to support this activity.

- All junction boxes, conduit, duct, duct dividers, switches, circuit breakers, cable tray, etc., are to be supplied and installed by electrical contractor.
- Conduit and duct runs shall have sweep radius bends
- Conduits and duct above ceiling or below finished floor must be installed as near to ceiling or floor as possible to reduce run length.
- Ceiling mounted junction boxes illustrated on this plan must be installed flush with finished ceiling.
- All ductwork must meet the following requirements:
  1.Ductwork shall be metal with dividers and have removable, accessible covers.
  2.Ductwork shall be certified/rated for electrical power purposes.
  3.Ductwork shall be electrically and mechanically bonded together in an approved manner.
  4.PVC as a substitute must be used in accordance with all local and national codes.
- All openings in raceway and access flooring are to be cut out and finished off with grommet material by the electrical contractor.
- General contractor to insert pull cords for all cable run conduits between the equipment room and the operators control room.
- 10 foot pigtails at all junction points.
- Grounding is critical to equipment function and patient safety. Site must conform to wiring specifications shown on this plan.

2



ITEM	ELECTRICAL LAYOUT ITEM LIST
1	Main disconnect panel
2	Power input distribution box
3	4" x 4" x 4" box for 10kva CT UPS
4	6" x 6" x 4" box for 6kva nuclear UPS
5	12" x 16" x 4" box for CT PDU
6	10" x 6" surface wall duct with minimum 2 dividers
7	2" conduit below floor
8	2 ½" conduit below floor
9	3 ½" conduit below floor
10	4" conduit below floor
	SEO emergency off pushbutton
	Warning light
	Warning light controller
	Duplex hospital grade, dedicated outlet 120-v, single phase outlet 20 amp
	Dedicated telephone line(s)
	Network outlet

Additional Conduit Runs (Contractor Supplied and Installed)

From (Bubble # / Item)		To (Bubble # / Item)		Qty	Size In.
3 Phase Power		1	Main Disconnect	1	As req'd
1	Main Disconnect		Emergency Off	1	1/2
		2	Power input distribution box	1	2
5	CT PDU		Door Switch	1	1/2
			Warning Light Control	1	1/2
Warning Light				1	1/2
1 Phase Power				1	As req'd
1	Main Disconnect Panel	3	CT UPS	1	3/4
5	CT PDU			1	2

POWER REQUIREMENTS

POWER SUPPLY

POWER SUPPLY	**3 PHASES+N+G 480 V ± 10%**
FREQUENCIES	**60 Hz ± 3 Hz**
MAXIMUM INPUT POWER	**90 kVA**
AVERAGE POWER DEMAND	**22 kVA**
POWER FACTOR	**0.85**

- Power supply should come into a Main Disconnect Panel (MDP) containing the protective units and controls.
- The section of the supply cable should be calculated in accordance with its length and the maximum permissible voltage drops.
- There must be discrimination between supply cable protective device at the beginning of the installation (main low-voltage transformer side) and the protective devices in the MDP.

SUPPLY CHARACTERISTICS

- Power input must be separate from any others which may generate transients (elevators, air conditioning, radiology rooms equipped with high speed film changers...).
- All equipment (lighting, power outlets, etc...) installed with GE system components must be powered separately.
- Phase imbalance 2% maximum.
- Maximum voltage regulation at full load = 6% (Including line impedance.)
- Transients must be less than 1500 V peak. (on a 400 V line)
- Inrush current can withstand up to 10 times the recommended circuit breaker rating that could be reached during system power up, due to the system main transformer.

GROUND SYSTEM

- System of equipotential grounding.
- Equipotential: The equipotential link will be by means of an equipotential bar. This equipotential bar should be connected to the protective earth conductors in the ducts of the non GE cableways and to additional equipotential connections linking up all the conducting units in the rooms where GE system units are located.
- Resistance between gantry ground and facility earth ground at the MDP must not exceed 0.5 Ohm.
- Total resistance between the gantry ground and earth must not exceed 2 Ohm.

CABLES

- Power and cable installation must comply with the distribution diagram.
- All cables must be isolated and flexible, cable color codes must comply with standards for electrical installation.
- The cables from signaling and remote control (Y, SEO, L...) will go to MDP with a pigtail length of 1.5 m, and will be connected during installation. Each conductor will be identified and isolated (screw connector).

CABLEWAYS

The general rules for laying cableways should meet the conditions laid down in current standards and regulations, with regard to:

- Protecting cables against water (cableways should be waterproof).
- Protecting cables against abnormal temperatures (proximity to heating pipes or ducts).
- Protecting cables against temperature shocks.
- Replacing cables (cableways should be large enough for cables to be replaced).
- Metal cableways should be grounded.

MAIN DISCONNECT PANEL

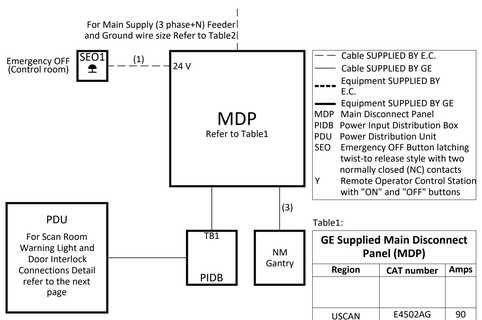


Table1:

GE Supplied Main Disconnect Panel (MDP)		
Region	**CAT number**	**Amps**
USCAN	E4502AG	90
-		

Table2:

Feeder Table

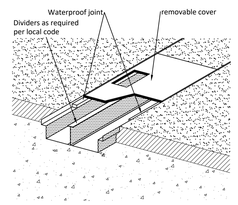
The information below assumes the use of copper wire, rated 75 C and run in steel conduit. All ampacity is determined in accordance with the National Electrical Code (NFPA 70), Table 310-16 (2002). The ampacity of the circuit protection device listed above determines the minimum feeder size, except where total source regulation limits require a larger size. If the wire size does not match the above lists, please select the nearest wire size as per to local standards.

Feeder length from Power Substation to MDP - ft (m)	Minimum Wire Size, AWG or MCM (mm²)/VAC					
						480 VAC
50 (15)						3 (30)
100 (30)						3 (30)
150 (46)						3 (30)
200 (61)						3 (30)
250 (76)						3 (30)
300 (91)						2 (35)
350 (107)						1 (45)
400 (122)						1 (45)
Grounding						
Run a dedicated 1/0 [50 mm²] or larger insulated copper ground wire from the power source to the MDP and from MDP to the PDU. Run the ground wire in the same raceway with the three-phase wires.						

Notes :
(1) Wire size: 4x2mm² [14AWG] and 1x2mm² [14AWG] GND
(2) Power cable: 3 Meter/10', multi-conductor, 24V DC
(3) Additional ground wire is supplied by GE if NM UPS option is installed

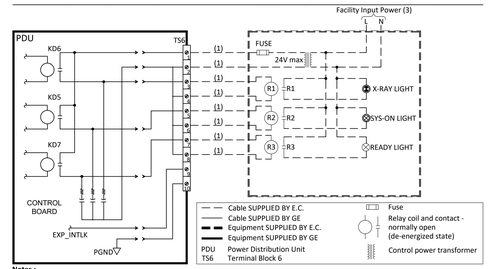
TYPICAL CABLE MANAGEMENT

FLUSH FLOOR DUCT



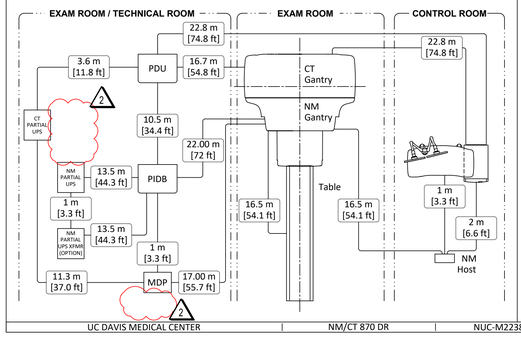
NOT TO SCALE

SCAN ROOM WARNING LIGHT AND DOOR INTERLOCK



Notes :
(1) Wire size: 2mm² [14 AWG] at 24V
(2) Door Interlock circuit is jumpered out if a door switch is not provided.
(3) Grounding not shown on the detail, but must comply with local codes.

INTERCONNECTIONS



DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:
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Sacramento, CA 95811
www.nachtlewis.com
916.329.4000
DESIGN PROFESSIONALS OF RECORD:

12/06/2024

UC DAVIS HEALTH
Facilities Design & Construction
4800 2nd Avenue Suite 3010
Sacramento, California 95817
(916)734-7934

EDGE ELECTRICAL DISTRIBUTION
Project Number H020
Contact Lai Vo
400 R Street, Ste 333
Sacramento, CA 95811
916.256.2460
Sacramento | Alameda | Irvine
CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
2	BID ADDENDA	12/6/2024

CONSTRUCTION DOCUMENTS

ACCOUNT NO. 9557570
OSHPD NO. S240360-34-00
BUILDING: DAVIS TOWER, UNIVERSITY OF CA DAVIS, MEDICAL CENTER
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: DT 1ST FLR RAD NUCLEAR MEDICINE REMODEL
SHEET TITLE: AREA A PHASE 1 - NUC MED #1 IMAGING EQUIPMENT PLANS AND NOTES

ARCH./ENGR.	FD&C JOB NO.	SHEET NO.
G. Wong	-	E311A
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN	
DESIGNED BY: L.Vo	DATE: 12/21/23	
DRAWN BY: A. Le	CAD FILE: -	SHEET / OF

CONNECTIVITY REQUIREMENTS

Your new GE Healthcare imaging modality will require local and remote connectivity to enable our full range of digital support:

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Depending on product family and software version, imaging systems can be connected in one of the following methods:

1. TLS over TCP Port 443 (Preferred method for new products) via:
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   b. KPIT-provided Proxy or
   c. GE Proxy (Available in some regions)
2. Site-to-Site IPsec VPN tunnel

Please provide the GE project manager with the contact information for the resource that can provide information required to set up these connections. GEHC will send out communication to these contacts, which will include the project's Connectivity requirements, and a Connectivity form. This form will need to be completed and returned to GEHC prior to delivery of the system to ensure the system is tested and connectivity is enabled prior to the completion of the installation.

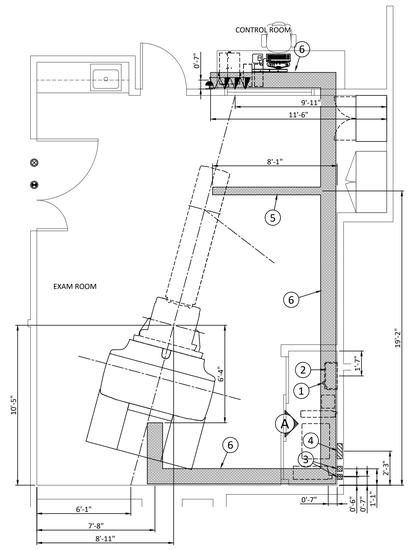
ELECTRICAL NOTES

1. All wires specified shall be copper stranded, flexible, thermo-plastic, color coded, cut 10 foot long at outlet boxes, duct termination points or stubbed conduit ends. All conductors, power, signal and ground, must be run in a conduit or duct system. Electrical contractor shall ring out and tag all wires at both ends. Wire runs must be continuous copper stranded and free from splices.

1.1. Aluminum or solid wires are not allowed.

2. Wire sizes given are for use of equipment. Larger sizes may be required by local codes.
3. It is recommended that all wires be color coded, as required in accordance with national and local electrical codes.
4. Conduit sizes shall be verified by the architect, electrical engineer or contractor, in accordance with local or national codes.
5. Convenience outlets are not illustrated. Their number and location are to be specified by others. Locate at least one convenience outlet close to the system control, the power distribution unit and one on each wall of the procedure room. Use hospital approved outlet or equivalent.
6. General room illumination is not illustrated. Caution should be taken to avoid excessive heat from overhead spotlights. Damage can occur to ceiling mounting components and wiring if high wattage bulbs are used. Recommend low wattage bulbs no higher than 75 watts and use dimmer controls (except MR). Do not mount lights directly above areas where ceiling mounted accessories will be parked.
7. Routing of cable ductwork, conduits, etc., must run direct as possible otherwise may result in the need for greater than standard cable lengths (refer to the interconnection diagram for maximum usable lengths point to point).
8. Conduit turns to have large, sweeping bends with minimum radius in accordance with national and local electrical codes.
9. A special grounding system is required in all procedure rooms by some national and local codes. It is recommended in areas where patients might be examined or treated under present, future, or emergency conditions. Consult the governing electrical code and confer with appropriate hospital administrative personnel to determine the areas requiring this type of grounding system.
10. The maximum point to point distances illustrated on this drawing must not be exceeded.
11. Physical connection of primary power to GE equipment is to be made by electrical contractor with the supervision of a GE representative. The GE representative would be required to identify the physical connection location, and insure proper handling of GE equipment.
12. GEHC conducts power audits to verify quality of power being delivered to the system. The electrical contractor is required to be available to support this activity.

- All junction boxes, conduit, duct, duct dividers, switches, circuit breakers, cable tray, etc., are to be supplied and installed by electrical contractor.
- Conduit and duct runs shall have sweep radius bends
- Conduits and duct above ceiling or below finished floor must be installed as near to ceiling or floor as possible to reduce run length.
- Ceiling mounted junction boxes illustrated on this plan must be installed flush with finished ceiling.
- All ductwork must meet the following requirements:
  1. Ductwork shall be metal with dividers and have removable, accessible covers.
  2. Ductwork shall be certified/rated for electrical power purposes.
  3. Ductwork shall be electrically and mechanically bonded together in an approved manner.
  4. PVC as a substitute must be used in accordance with all local and national codes.
- All openings in raceway and access flooring are to be cut out and finished off with grommet material by the electrical contractor.
- General contractor to insert pull cords for all cable run conduits between the equipment room and the operators control room.
- 10 foot pigtails at all junction points.
- Grounding is critical to equipment function and patient safety. Site must conform to wiring specifications shown on this plan.



Item	Electrical Layout Item List
1	Main disconnect panel (MDP)
2	Power input distribution box (PIDB)
3	4" x 4" x 4" [100 x 100 x 100] box (UPS)
4	12" x 16" x 4" [300 x 400 x 100] box (Power Distribution Unit)
5	6" x 3" trench duct with minimum 2 dividers (LEGRAND VA6W325H SERIES)
6	12" x 3" trench duct with minimum 2 dividers (LEGRAND VA12W325H SERIES)
7	Suitable chase nipples, refer to Anchoring/Loading Distribution to the Floor detail on sheet S3 (Gantry)
8	Opening in duct coverplate (Table)
9	Suitable chase nipples (Operators Console)

ITEM	Electrical Outlet Legend Contractor supplied and installed items unless otherwise specified. Height above floor determined by local codes unless otherwise specified.
	Emergency Off (ORDER FROM GE)
	Warning light (ORDER FROM GE)
	Warning light controller (ORDER FROM GE)
	Dedicated telephone line(s)
	Network outlet

Additional Conduit Runs (Contractor Supplied and Installed)

From (Bubble # / Item)		To (Bubble # / Item)		Qty	Size In.
3 Phase Power		1	Main Disconnect	1	2
			Emergency Off	1	3/4
1	Main Disconnect	2	Power input distribution box	1	2
4	CT PDU				
				1	3/4
Warning Light			Warning Light Control	1	3/4
1 Phase Power				1	3/4
1	Main Disconnect Panel	3	CT UPS	1	3/4
4	CT PDU			1	2

POWER REQUIREMENTS

POWER SUPPLY

POWER SUPPLY	**3 PHASES+N+G 480 V ± 10%**
FREQUENCIES	**60 Hz ± 3 Hz**
MAXIMUM INPUT POWER	**90 kVA**
AVERAGE POWER DEMAND	**22 kVA**
POWER FACTOR	**0.85**

- Power supply should come into a Main Disconnect Panel (MDP) containing the protective units and controls.
- The section of the supply cable should be calculated in accordance with its length and the maximum permissible voltage drops.
- There must be discrimination between supply cable protective device at the beginning of the installation (main low-voltage transformer side) and the protective devices in the MDP.

SUPPLY CHARACTERISTICS

- Power input must be separate from any others which may generate transients (elevators, air conditioning, radiology rooms equipped with high speed film changers...).
- All equipment (lighting, power outlets, etc...) installed with GE system components must be powered separately.
- Phase imbalance 2% maximum.
- Maximum voltage regulation at full load = 6% (Including line impedance.)
- Transients must be less than 1500 V peak. (on a 400 V line)
- Inrush current can withstand up to 10 times the recommended circuit breaker rating that could be reached during system power up, due to the system main transformer.

GROUND SYSTEM

- System of equipotential grounding.
- Equipotential: The equipotential link will be by means of an equipotential bar. This equipotential bar should be connected to the protective earth conductors in the ducts of the non GE cableways and to additional equipotential connections linking up all the conducting units in the rooms where GE system units are located.
- Resistance between gantry ground and facility earth ground at the MDP must not exceed 0.5 Ohm.
- Total resistance between the gantry ground and earth must not exceed 2 Ohm.

CABLES

- Power and cable installation must comply with the distribution diagram.
- All cables must be isolated and flexible, cable color codes must comply with standards for electrical installation.
- The cables from signaling and remote control (Y, SEO, L...) will go to MDP with a pigtail length of 1.5 m, and will be connected during installation. Each conductor will be identified and isolated (screw connector).

CABLEWAYS

The general rules for laying cableways should meet the conditions laid down in current standards and regulations, with regard to:

- Protecting cables against water (cableways should be waterproof).
- Protecting cables against abnormal temperatures (proximity to heating pipes or ducts).
- Protecting cables against temperature shocks.
- Replacing cables (cableways should be large enough for cables to be replaced).
- Metal cableways should be grounded.

MAIN DISCONNECT PANEL

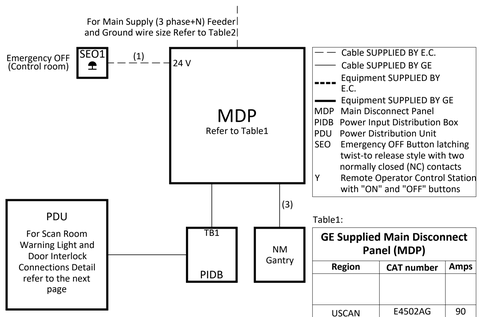


Table1:

GE Supplied Main Disconnect Panel (MDP)		
Region	**CAT number**	**Amps**
USCAN	E4502AG	90
-		

Table2:

Feeder Table

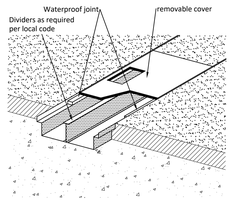
The information below assumes the use of copper wire, rated 75 C and run in steel conduit. All ampacity is determined in accordance with the National Electrical Code (NFPA 70), Table 310-16 (2002). The ampacity of the circuit protection device listed above determines the minimum feeder size, except where total source regulation limits require a larger size. If the wire size does not match the above lists, please select the nearest wire size as per to local standards.

Feeder length from Power Substation to MDP - ft (m)	Minimum Wire Size, AWG or MCM (mm²)/VAC					
						480 VAC
50 (15)						3 (30)
100 (30)						3 (30)
150 (46)						3 (30)
200 (61)						3 (30)
250 (76)						3 (30)
300 (91)						2 (35)
350 (107)						1 (45)
400 (122)						1 (45)
Grounding						
Run a dedicated 1/0 [50 mm²] or larger insulated copper ground wire from the power source to the MDP and from MDP to the PDU. Run the ground wire in the same raceway with the three-phase wires.						

Notes :
(1) Wire size: 4x2mm² [14AWG] and 1x2mm² [14AWG] GND
(2) Power cable: 3 Meter/10', multi-conductor, 24V DC
(3) Additional ground wire is supplied by GE if NM UPS option is installed

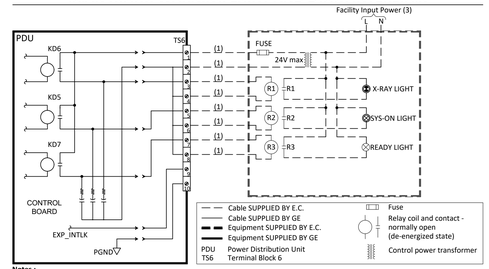
TYPICAL CABLE MANAGEMENT

FLUSH FLOOR DUCT



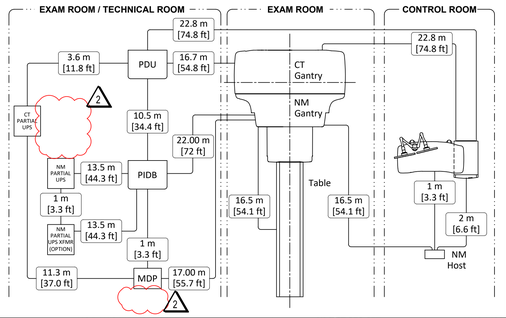
NOT TO SCALE

SCAN ROOM WARNING LIGHT AND DOOR INTERLOCK



Notes :
(1) Wire size: 2mm² [14 AWG] at 24V
(2) Door Interlock circuit is jumpered out if a door switch is not provided.
(3) Grounding not shown on the detail, but must comply with local codes.

INTERCONNECTIONS



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12/06/2024

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Project Number H020
Contact Lai Vo
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916.256.2460
Sacramento | Alameda | Irvine
CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
2	BID ADDENDA	12/6/2024

CONSTRUCTION DOCUMENTS

ACCOUNT NO. 9557570
OSHPD NO. S240360-34-00
BUILDING: DAVIS TOWER, UNIVERSITY OF CA DAVIS, MEDICAL CENTER
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: DT 1ST FLR RAD NUCLEAR MEDICINE REMODEL AREA A PHASE 2 – NUC MED #3
SHEET TITLE: IMAGING EQUIPMENT PLANS AND NOTES

ARCH./ENGR.	FD&C JOB NO.	SHEET NO.
G. Wong	-	E312A
UCDMC PROJECT MANAGER	SCALE	
Z. Price	AS SHOWN	
DESIGNED BY	DATE	
L.Vo	12/21/23	
DRAWN BY	CAD FILE	SHEET / OF
A. Le	-	

CONNECTIVITY REQUIREMENTS

Your new GE Healthcare imaging modality will require local and remote connectivity to enable our full range of digital support:

- Local connectivity - This allows your system to connect to local devices such as PACS and modality worklist. We will require network information to configure the system(s), and a live ethernet port(s) prior to the delivery of the system(s).
- Remote connectivity - Your GE Healthcare service warranty includes InSite™ (applicable to InSite capable products), a powerful broadband-based service which enables digital tools that can help guard your hospital against equipment downtime and revenue loss by quickly connecting you to a GE Healthcare expert.

Depending on product family and software version, imaging systems can be connected in one of the following methods:

1. TLS over TCP Port 443 (Preferred method for new products) via:
   a. DNS resolution
   b. KPIT-provided Proxy or
   c. GE Proxy (Available in some regions)
2. Site-to-Site IPsec VPN tunnel

Please provide the GE project manager with the contact information for the resource that can provide information required to set up these connections. GEHC will send out communication to these contacts, which will include the project's Connectivity requirements, and a Connectivity form. This form will need to be completed and returned to GEHC prior to delivery of the system to ensure the system is tested and connectivity is enabled prior to the completion of the installation.

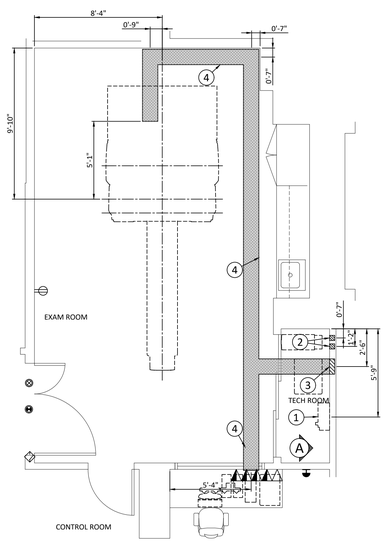
ELECTRICAL NOTES

1. All wires specified shall be copper stranded, flexible, thermo-plastic, color coded, cut 10 foot long at outlet boxes, duct termination points or stubbed conduit ends. All conductors, power, signal and ground, must be run in a conduit or duct system. Electrical contractor shall ring out and tag all wires at both ends. Wire runs must be continuous copper stranded and free from splices.

1.1. Aluminum or solid wires are not allowed.

2. Wire sizes given are for use of equipment. Larger sizes may be required by local codes.
3. It is recommended that all wires be color coded, as required in accordance with national and local electrical codes.
4. Conduit sizes shall be verified by the architect, electrical engineer or contractor, in accordance with local or national codes.
5. Convenience outlets are not illustrated. Their number and location are to be specified by others. Locate at least one convenience outlet close to the system control, the power distribution unit and one on each wall of the procedure room. Use hospital approved outlet or equivalent.
6. General room illumination is not illustrated. Caution should be taken to avoid excessive heat from overhead spotlights. Damage can occur to ceiling mounting components and wiring if high wattage bulbs are used. Recommend low wattage bulbs no higher than 75 watts and use dimmer controls (except MR). Do not mount lights directly above areas where ceiling mounted accessories will be parked.
7. Routing of cable ductwork, conduits, etc., must run direct as possible otherwise may result in the need for greater than standard cable lengths (refer to the interconnection diagram for maximum usable lengths point to point).
8. Conduit turns to have large, sweeping bends with minimum radius in accordance with national and local electrical codes.
9. A special grounding system is required in all procedure rooms by some national and local codes. It is recommended in areas where patients might be examined or treated under present, future, or emergency conditions. Consult the governing electrical code and confer with appropriate hospital administrative personnel to determine the areas requiring this type of grounding system.
10. The maximum point to point distances illustrated on this drawing must not be exceeded.
11. Physical connection of primary power to GE equipment is to be made by electrical contractor with the supervision of a GE representative. The GE representative would be required to identify the physical connection location, and insure proper handling of GE equipment.
12. GEHC conducts power audits to verify quality of power being delivered to the system. The electrical contractor is required to be available to support this activity.

- All junction boxes, conduit, duct, duct dividers, switches, circuit breakers, cable tray, etc., are to be supplied and installed by electrical contractor.
- Conduit and duct runs shall have sweep radius bends
- Conduits and duct above ceiling or below finished floor must be installed as near to ceiling or floor as possible to reduce run length.
- Ceiling mounted junction boxes illustrated on this plan must be installed flush with finished ceiling.
- All ductwork must meet the following requirements:
  1. Ductwork shall be metal with dividers and have removable, accessible covers.
  2. Ductwork shall be certified/rated for electrical power purposes.
  3. Ductwork shall be electrically and mechanically bonded together in an approved manner.
  4. PVC as a substitute must be used in accordance with all local and national codes.
- All openings in raceway and access flooring are to be cut out and finished off with grommet material by the electrical contractor.
- General contractor to insert pull cords for all cable run conduits between the equipment room and the operators control room.
- 10 foot pigtails at all junction points.
- Grounding is critical to equipment function and patient safety. Site must conform to wiring specifications shown on this plan.



Item	Electrical Layout Item List
1	Main disconnect panel
2	4" x 4" x 4" box (Partial UPS)
3	12" x 16" x 4" box (Power Distribution Unit)
4	12" x 3" trench duct with minimum 2 dividers (LEGRAND VA12W325H SERIES)
ITEM	**Electrical Outlet Legend** Contractor supplied and installed items unless otherwise specified. Height above floor determined by local codes unless otherwise specified.
	System emergency off (SEO), (recommended height 48" above floor) (ORDER FROM GE)
	X-Ray room warning light control panel (ORDER FROM GE)
	X-Ray ON lamp (L1) - 24V (ORDER FROM GE)
	Dedicated telephone line(s)
	Network outlet
	Duplex hospital grade, dedicated wall outlet 120-v, single phase power

Additional Conduit Runs (Contractor Supplied and Installed)

From (Bubble # / Item)	To (Bubble # / Item)	Qty	Size In.
3 Phase Power	1 Main Disconnect Panel	1	2
1 Main Disconnect Panel	Emergency Off	1	1
	3 Power Distribution Unit	1	2
3 Power Distribution Unit			
	Warning Light Control	1	1
Warning Light		1	1
1 Phase Power		1	1
1 Main Disconnect Panel	2 Partial UPS	1	1 1/4
3 Power Distribution Unit		1	2

POWER REQUIREMENTS

POWER SUPPLY

POWER SUPPLY	**3 PHASES+N+G 480 VAC ± 6%**
FREQUENCIES	**60 Hz ± 3 Hz**
MAXIMUM POWER DEMAND	**90 kVA**
AVERAGE (CONTINUOUS) POWER DEMAND	**22 kVA**
POWER FACTOR	**0.85 (140 kV, 380 mA)**

- Power supply should come into a Main Disconnect Panel (MDP) containing the protective units and controls.
- The section of the supply cable should be calculated in accordance with its length and the maximum permissible voltage drops.
- There must be difference between supply cable protective device at the beginning of the installation (main low-voltage transformer side) and the protective devices in the MDP.

SUPPLY CHARACTERISTICS

- Power input must be separate from any others which may generate transients (elevators, air conditioning, radiology rooms equipped with high speed film changers...).
- All equipment (lighting, power outlets, etc...) installed with GE system components must be powered separately.
- Phase imbalance 2% maximum.
- Maximum voltage variation at full load = 6% (Including line impedance).
- Transients must be less than 1500 V peak. (on a 400 V line)

GROUND SYSTEM

- System of equipotential grounding.
- Equipotential: The equipotential link will be by means of an equipotential bar. This equipotential bar should be connected to the protective earth conductors in the ducts of the non GE cableways and to additional equipotential connections linking up all the conducting units in the rooms where GE system units are located.
- The impedance of the earth bar should be less than or equal to 0.5 Ohm.

CABLES

- Power and cable installation must comply with the distribution diagram.
- All cables must be isolated and flexible, cable color codes must comply with standards for electrical installation.
- The cables from signaling and remote control (Y, SEO, L...) will go to MDP with a pigtail length of 1.5 m, and will be connected during installation. Each conductor will be identified and isolated (screw connector).

CABLEWAYS

The general rules for laying cableways should meet the conditions laid down in current standards and regulations, with regard to:

- Protecting cables against water (cableways should be waterproof).
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- Protecting cables against temperature shocks.
- Replacing cables (cableways should be large enough for cables to be replaced).
- Metal cableways should be grounded.

POWER DISTRIBUTION

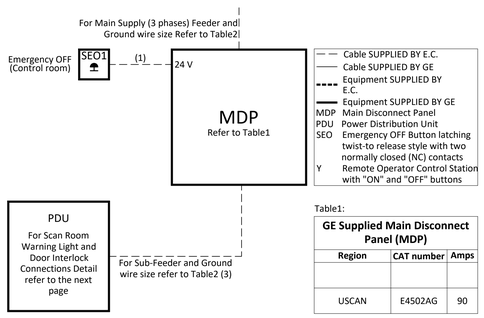


Table1:

GE Supplied Main Disconnect Panel (MDP)		
Region	**CAT number**	**Amps**
USCAN	E4502AG	90

Table2:

Feeder Table

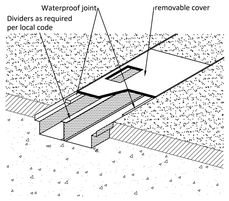
The information below assumes the use of copper wire, rated 75 C and run in steel conduit. All ampacity is determined in accordance with the National Electrical Code (NFPA 70), Table 310-16 (2002). The ampacity of the circuit protection device listed above determines the minimum feeder size, except where total source regulation limits require a larger size. If the wire size does not match the above lists, please select the nearest wire size as per to local standards.

Feeder length from Power Substation to MDP - ft (m)	**Minimum Wire Size, AWG or MCM (mm²)/VAC**
	480 VAC
50 (15)	3 (30)
100 (30)	3 (30)
150 (46)	3 (30)
200 (61)	3 (30)
250 (76)	3 (30)
300 (91)	2 (35)
350 (107)	1 (45)
400 (122)	1 (45)
Sub-Feeder length from MDP to PDU - ft (m)	
32 (9.7536)	3 (30)
Grounding	
Run a dedicated 1/0 [50 mm²] or larger insulated copper ground wire from the power source to the MDP and from MDP to the PDU. Run the ground wire in the same raceway with the three-phase wires.	

Notes :
(1) Wire size: 4x2mm² [14AWG] and 1x2mm² [14AWG] GND
(2) Power cable: 3 Meter/10', multi-conductor, 24V DC

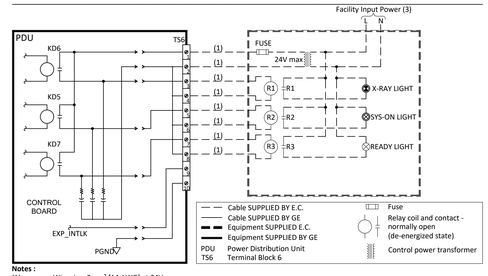
TYPICAL CABLE MANAGEMENT

FLUSH FLOOR DUCT



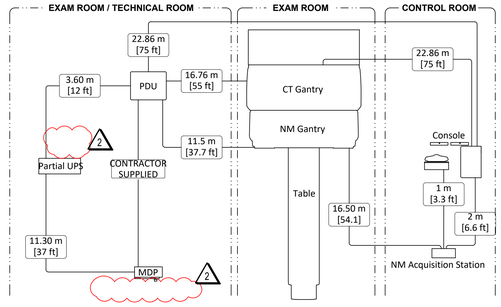
NOT TO SCALE

SCAN ROOM WARNING LIGHT AND DOOR INTERLOCK



Notes :
(1) Wire size: 2mm² [14 AWG] at 24V
(2) Door Interlock circuit is jumpered out if a door switch is not provided.
(3) Grounding not shown on the detail, but must comply with local codes.

INTERCONNECTIONS



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DESIGN PROFESSIONALS OF RECORD:
12/06/2024

UCDAVIS HEALTH
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EDGE ELECTRICAL DISTRIBUTION
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Contact Lai Vo
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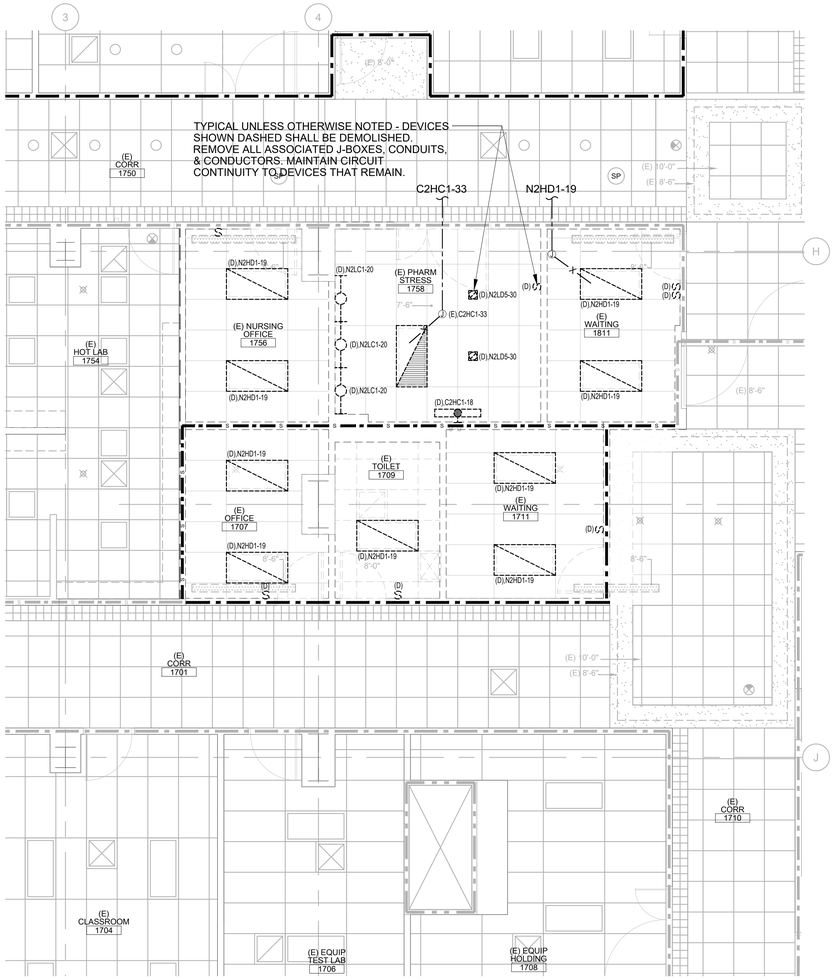
Sacramento, CA 95811
916.256.2460
Sacramento | Alameda | Irvine
CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
2	BID ADDENDA	12/6/2024

CONSTRUCTION DOCUMENTS

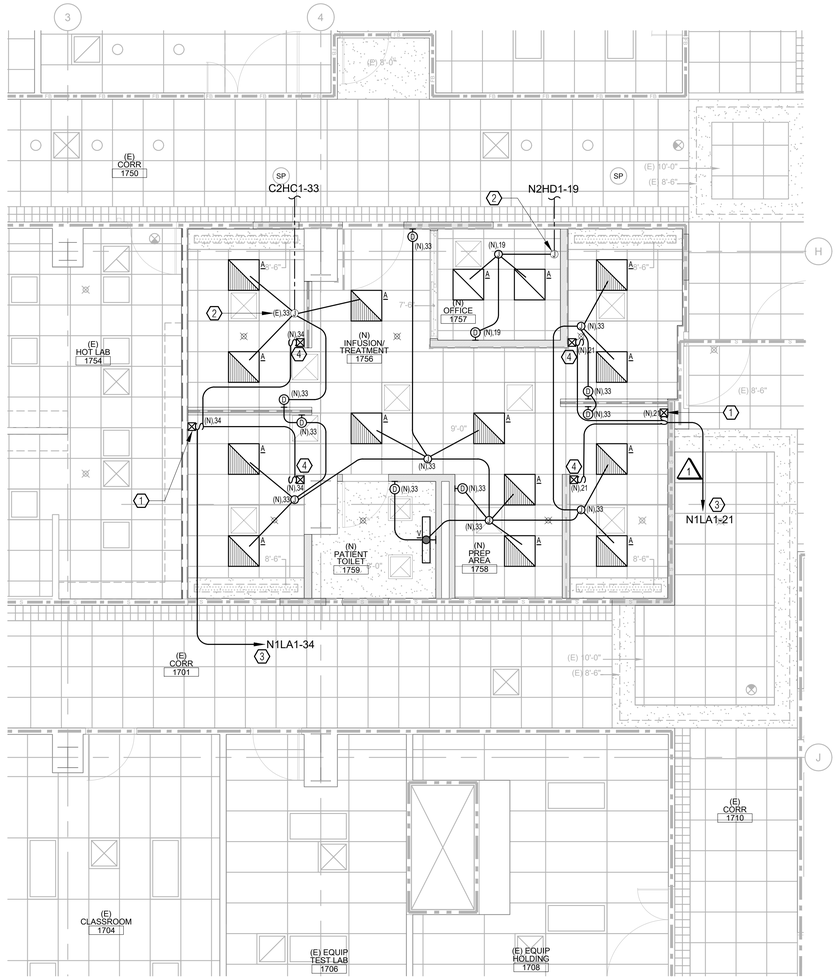
ACCOUNT NO. 9557570
OSHPD NO. S240360-34-00
BUILDING: DAVIS TOWER, UNIVERSITY OF CA DAVIS, MEDICAL CENTER
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: DT 1ST FLR RAD NUCLEAR MEDICINE REMODEL AREA A PHASE 3 – NUC MED #2 IMAGING EQUIPMENT PLANS AND NOTES
SHEET TITLE:

ARCH./ENGR.	FD&C JOB NO.	SHEET NO.
G. Wong	-	E313A
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN	
DESIGNED BY: L.Vo	DATE: 12/21/23	
DRAWN BY: A. Le	CAD FILE: -	SHEET / OF



2 ENLARGED FIRST FLOOR PLAN - AREA B - DEMO LIGHTING

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



1 ENLARGED FIRST FLOOR PLAN - AREA B - NEW LIGHTING

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

SHEET NOTES

1. LOCATIONS AND MOUNTING HEIGHTS OF WALL MOUNTED WIRING DEVICES SUCH AS POWER RECEPTACLES, DATA OUTLETS, SWITCHES, DIMMERS, ETC., ARE TO BE ULTIMATELY COORDINATED W/ ARCHITECTURAL DRAWINGS.
2. SEE OVERALL FLOOR PLAN(S) FOR (E) PANEL LOCATION(S).

NUMBERED NOTES

1 ABOVE CEILING LIGHTING CONTROL PANEL W/ POWER SUPPLY, BY PDC, 120V, 7.2A MAX. SEE SHEETS E205 AND E207.

2 EXTEND (E) CIRCUIT TO (N) DEVICE AS INDICATED.

3 CONNECT TO (E) SPARE CIRCUIT BREAKER INDICATED.

4 COLOR WHEEL CONTROL W/ POWER SUPPLY, BY PDC, 120V, 1.2W MAX. SEE SHEETS E205 AND E207.

1

LUMINAIRE SCHEDULE

TYPE	2 MANUFACTURER/CATALOG	DESCRIPTION	MOUNTING	LAMP NO.	LAMP TYPE	VOLTS	WATTS	REMARKS
A	LITHONIA LIGHTING 2BLT2-40LHE-ADPT-EZ1-LP835-NLTAIR2-RES7PT	2x2 TROFFER	RECESSED		LED	277	29.0	NLIGHT AIR ENABLED
B	LITHONIA LIGHTING 2BLT4-48LHE-ADPT-EZ1-LP835-NLTAIR2-RES7PT	2x4 TROFFER	RECESSED		LED	277	34.0	NLIGHT AIR ENABLED
C	LITHONIA LIGHTING BLT4-30LHE-ADPT-EZ1-LP835-NLTAIR2-RES7PT	1x4 TROFFER	RECESSED		LED	277	23.0	NLIGHT AIR ENABLED
D	LITHONIA LIGHTING LDN6-35/20-L06-AR-LSS-TRW-MVOLT-EZ1-NLTAIR2	6 INCH DOWNLIGHT	RECESSED		LED	277	22.5	NLIGHT AIR ENABLED
U	LITHONIA LIGHTING UPLD-30IN-SWW4-90CRI-WH	30 INCH UNDERCABINET LIGHTING	SURFACE		LED	120	15.0	ROCKER SWITCH INCLUDED
V	LITHONIA LIGHTING BLWP4-48LHE-ADPT-EZ1-LP835-NLTAIR2-RES7PT	4FT VANITY	WALL @ 7'-0"AFF		LED	277	39.0	NLIGHT AIR ENABLED
X	LITHONIA LIGHTING LQM-S-W-3-R-120/277	ILLUMINATED EXIT SIGN	SURFACE		LED	277	1	PROVIDE UNSWITCHED HOT LEG

1

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CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
1	HCAI BACKCHECK 01	5/17/2024
2	BID ADDENDA	12/6/2024

CONSTRUCTION DOCUMENTS

ACCOUNT NO: 9557570
OSHPD NO: S240360-34-00
BUILDING: DAVIS TOWER, UNIVERSITY OF CA DAVIS, MEDICAL CENTER
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: DT 1ST FLR RAD NUCLEAR MEDICINE REMODEL
SHEET TITLE: AREA B ENLARGED FIRST FLOOR PLAN – LIGHTING AND LUMINAIRE SCHEDULE

ARCH / ENGR: G. Wong	FD&C JOB NO.: -	SHEET NO.: E542	
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN		
DESIGNED BY: L.Vo	DATE: 12/21/23		
DRAWN BY: A. Le	CAD FILE: -	SHEET	OF

(E) PANEL N2HD1

SECTION: 1 OF 1 | SERVING: NORMAL | LOCATION: ELEC RM 2761 | PANEL A.I.C.: 14,000 | MOUNTING: X SURFACE
BUS RATING: 400 AMP | X MAIN LUGS ONLY | THREE PHASE 4-WIRE | VOLTAGE 480Y/277 | FED BY 400A/3P OCPD AT N2HDC2

LOAD DESCRIPTION	CONT.	RECP.	MOTOR	NON	AMP	POLE	CKT #	PH	CKT #	POLE	AMP	CONT.	RECP.	MOTOR	NON	LOAD DESCRIPTION
PSS POWER				1.00	20	1	1	A	2	1	20	1.87				LTG 1740
SPARE					20	1	3	B	4	1	20	2.78				LTG 1700
LTG 1600	0.51				20	1	5	C	6	1	20	1.70				LTG 1ST PATIENT ELEVATOR
LTG 1900B	0.43				20	1	7	A	8	1	20	0.65				LTG 1ST PUBLIC ELEVATOR
LTG 1900	0.40				20	1	9	B	10	1	20	1.15				LTG 1710A
LTG 16960	0.54				20	1	11	C	12	1	20	3.15				LTB 1690
LTG 1990	0.30				20	1	13	A	14	1	20	1.10				LTG 1702 & 1700A
LTG 1990A	0.39				20	1	15	B	16	1	20	1.50				LTG 1690B
LTG 1990B	0.44				20	1	17	C	**18**	1	20	**2.76**				**LTG 1890**
LTG 1756	**4.40**				20	1	**19**	A	20	1	20	3.65				LTG 1810
LTG 1694B	2.04				20	1	21	B	**22**	1	20	**2.67**				**LTG 1770**
LTG 1ST EXTRA	3.40				20	1	23	C	24	1	20	2.66				LTG 1840
LTG 1ST WEST	**2.75**				20	1	**25**	A	26	1	20	3.38				LTG 1770
CORR 1870	3.00				20	1	27	B	**28**	1	20	**2.63**				**LTG 1ST WEST**
SPARE					20	1	29	C	30	1	20	2.80				LTG 1ST WEST
				4.00			**31**	A	**32**							
⚠1 ⟨2⟩ **HUMIDIFIER HUM-1**				**4.00**	**20**	**3**	**33**	B	**34**	3	40					**SPARE**
				4.00			**35**	C	**36**							
				19.24			37	A	38						22.74	
TRANSFORMER T-N2D2				19.24	100	3	39	B	40	3	100				22.74	TRANSFORMER T-N2D1
				19.24			41	C	42						22.74	
TOTALS ------>	18.60	0.00	0.00	70.72								34.45	0.00	0.00	68.21	<---- TOTALS

TOTAL CONTINUOUS LOAD @ 125%: 66.32 KVA
TOTAL RECEPTACLE LOAD, 100% FOR FIRST 10,000VA, & 50% FOR REMAINDER: 0.00 KVA
TOTAL NONCONTINUOUS LOAD: 138.93 KVA
TOTAL MOTOR LOAD: 0.00 KVA
LARGEST MOTOR @ 25%: 0 KVA 0.00 KVA

TOTAL DEMAND LOAD: 205.24 KVA | CONNECTED KVA TOTAL/PHASE: A 65.51, B 62.52, C 63.95 | MINIMUM FEEDER CAPACITY 205.24 KVA 246.87 AMP

(E) PANEL N1LRD2

SECTION 1 OF 1 | SERVING NORMAL | LOCATION: NUC MED 1865I | PANEL A.I.C.: EXISTING | MOUNTING: X FLUSH
BUS RATING: 60 AMP | X MAIN BREAKER: 60 AMP | THREE PHASE 4-WIRE | VOLTAGE 208Y/120 | FED BY 60A/3P OCPD AT N2LD6

LOAD DESCRIPTION	CONT.	RECP.	MOTOR	NON	AMP	POLE	CKT #	PH	CKT #	POLE	AMP	CONT.	RECP.	MOTOR	NON	LOAD DESCRIPTION
							1	A	2							
MAIN					60	3	3	B	4	3	35					TVSS
							5	C	6							
							7	A	**8**	1	15					**SPARE**
GANTRY					30	3	9	B	10	1	30					SPARE
							11	C	12	1						SPACE
RECEPTS NUC MED3 1865I		**0.72**			20	1	**13**	A	**14**	**1**	**20**		**1.68**			**BLANKET WARMER**
RECEPTS CONTROL RM 1865K		**0.72**			20	1	**15**	B	**16**	**1**	**20**	**1.45**				**PDC LTG RECEPT RM 1865I** ⟨3⟩
SPARE					15	1	17	C	**18**	**1**	**20**	**1.45**				**PDC LTG RECEPT RM 1865K**
TOTALS ------>	0.00	1.44	0.00	0.00								2.90	1.68	0.00	0.00	

TOTAL CONTINUOUS LOAD @ 125%: 3.63 KVA
TOTAL RECEPTACLE LOAD, 100% FOR FIRST 10KVA, & 50% FOR REMAINDER: 3.12 KVA
TOTAL NONCONTINUOUS LOAD: 0.00 KVA
TOTAL MOTOR LOAD: 0.00 KVA
LARGEST MOTOR @ 25%: 0 KVA 0.00 KVA

TOTAL DEMAND LOAD: 6.75 KVA | CONNECTED KVA TOTAL/PHASE: A 2.40, B 2.17, C 1.45 | MINIMUM FEEDER CAPACITY 6.75 KVA 18.72 AMP

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(E) PANEL N1LRD4

SECTION 1 OF 1 | SERVING NORMAL | LOCATION: NUC MED 1875K | PANEL A.I.C.: EXISTING | MOUNTING: X FLUSH
BUS RATING: 60 AMP | X MAIN BREAKER: 60 AMP | THREE PHASE 4-WIRE | VOLTAGE 208Y/120 | FED BY 60A/3P OCPD AT N2LD6

LOAD DESCRIPTION	CONT.	RECP.	MOTOR	NON	AMP	POLE	CKT #	PH	CKT #	POLE	AMP	CONT.	RECP.	MOTOR	NON	LOAD DESCRIPTION
							1	A	2	1						SPACE
MAIN					60	3	3	B	**4**	**1**	**20**	**1.45**				**PDC LTG RECEPT RM 1877** ⟨2⟩
							5	C	**6**	**1**	**20**	**1.45**				**PDC LTG RECEPT RM 1865K**
RECEPTS NUC MED2 1877		**0.72**			**20**	**1**	**7**	A	8						0.01	
⟨2⟩ **RECEPTS CONTROL RM 1865K**		**0.72**			**20**	**1**	**9**	B	10	3	35				0.01	TVSS
SPARE					**20**	**1**	**11**	C	12						0.01	
TOTALS ------>	0.00	1.44	0.00	0.00								2.90	0.00	0.00	0.03	<---- TOTALS

TOTAL CONTINUOUS LOAD @ 125%: 3.63 KVA
TOTAL RECEPTACLE LOAD, 100% FOR FIRST 10KVA, & 50% FOR REMAINDER: 1.44 KVA
TOTAL NONCONTINUOUS LOAD: 0.03 KVA
TOTAL MOTOR LOAD: 0.00 KVA
LARGEST MOTOR @ 25%: 0 KVA 0.00 KVA

TOTAL DEMAND LOAD: 5.10 KVA | CONNECTED KVA TOTAL/PHASE: A 0.73, B 2.18, C 1.46 | MINIMUM FEEDER CAPACITY 5.10 KVA 14.14 AMP

(E) PANEL N1LRD5

SECTION 1 OF 1 | SERVING NORMAL | LOCATION: NUC MED 1878 | PANEL A.I.C.: EXISTING | MOUNTING: X FLUSH
BUS RATING: 125 AMP | X MAIN BREAKER 60 AMP | SINGLE PHASE 3-WIRE | VOLTAGE 120/208 | FED BY 60A/2P OCPD AT N2LD6

LOAD DESCRIPTION	CONT.	RECP.	MOTOR	NON	AMP	POLE	CKT #	PH	CKT #	POLE	AMP	CONT.	RECP.	MOTOR	NON	LOAD DESCRIPTION
SPARE					30	2	1	A	**2**	1	20	**1.44**				**LTG EQUIPMENT PANEL 1878B**
							3	B	**4**	1	20		**0.72**			**RECEPTS NUC MED1 1878A & B**
SPACE						1	5	A	**6**	**1**	**20**		**0.54**			**RECEPTS CONTROL RM 1878C**
SPACE						1	7	B	**8**	**1**	**20**	**1.45**				**PDC LTG RECEPT RM 1878A** ⟨3⟩
SPACE						1	9	A	**10**	**1**	**20**	**1.45**				**PDC LTG RECEPT RM 1878C**
SPACE						1	11	B	12	1						SPACE
TOTALS ------>	0.00	0.00	0.00	0.00								4.34	1.26	0.00	0.00	<---- TOTALS

TOTAL CONTINUOUS LOAD @ 125%: 5.43 KVA
TOTAL RECEPTACLE LOAD, 100% FOR FIRST 10,000VA, & 50% FOR REMAINDER: 1.26 KVA
TOTAL NONCONTINUOUS LOAD: 0.00 KVA
TOTAL MOTOR LOAD: 0.00 KVA
LARGEST MOTOR @ 25%: 0 KVA 0.00 KVA

TOTAL DEMAND LOAD: 6.69 KVA | CONNECTED KVA TOTAL/PHASE: A 3.43, B 2.17 | MINIMUM FEEDER CAPACITY 6.69 KVA 32.14 AMP

(E) PANEL N2LD3

SECTION 1 OF 3 | SERVING NORMAL | LOCATION: ELEC RM 2751 | PANEL A.I.C.: 10,000 | MOUNTING: X FLUSH
BUS RATING: 225 AMP | X MAIN BREAKER: 225 AMP | THREE PHASE 4-WIRE | VOLTAGE 208Y/120 | FED BY 75KVA XFMR T-N2D2

LOAD DESCRIPTION	CONT.	RECP.	MOTOR	NON	AMP	POLE	CKT #	PH	CKT #	POLE	AMP	CONT.	RECP.	MOTOR	NON	LOAD DESCRIPTION
RECEPTS 1865L,M		1.08			20	1	1	A	2	1	20		0.94			RECEPTS 1865
RECEPTS 1865		0.54			20	1	3	B	4	1	20		0.74			RECEPTS 1865
RECEPTS 1865		0.72			20	1	5	C	6	1	20					SPARE
RECEPTS 1866		0.70			20	1	7	A	8						0.90	
GAS COLUMN 1865F				0.54	20	1	9	B	10	3	30				0.90	KODAK PROCESSOR
GAS COLUMN 1865F				0.54	20	1	11	C	12						0.90	
RECEPTS 1865F		1.08			20	1	13	A	14	1	20		1.44			SYS FURN 1865N
RECEPTS 1865F		1.10			20	1	15	B	16	1	20		1.44			SYS FURN 1865N
RECEPTS 1865G		0.36			20	1	17	C	18	1	20		1.44			SYS FURN 1865N
EXISTING LOAD				0.36	20	1	19	A	20	2	20				1.68	TREADMILL
SYS FURN 1644A		1.44			20	1	21	B	22						1.68	
RECEPTS 1980A		1.44			20	1	23	C	24	1	20				1.32	DMI CHAIR
REC/SYS FURN 1644A		1.44			20	1	25	A	26	1	20		1.27			SYS FURN 1644
REC/SYS FURN 1644A		1.26			20	1	27	B	28	1	20		0.82			SYS FURN 1644
SYS FURN 1644A		1.26			20	1	29	C	30	1	20				1.00	VIEWER 1910O
REC/SYS FURN 1644		0.82			20	1	31	A	32	1	20				1.00	VIEWER 1910P
SYS FURN 1644		1.08			20	1	33	B	34	1	20				1.00	VIEWER 1910X
RECEPTS 1865		1.50			20	1	35	C	36	1	20		1.44			SYS FURN 1644
RECEPTS 1865		1.50			20	1	37	A	38	1	20		1.44			SYS FURN 1644
SYS FURN 1644		1.44			20	1	39	B	40	1	20		1.44			SYS FURN 1644
SYS FURN 1644		1.44			20	1	41	C	42	1	20		1.44			SYS FURN 1644
TOTALS ------>	0.00	20.20	0.00	1.44								0.00	13.85	0.00	10.38	<---- TOTALS

TOTAL CONTINUOUS LOAD @ 125%: 9.03 KVA
TOTAL RECEPTACLE LOAD, 100% FOR FIRST 10KVA, & 50% FOR REMAINDER: 29.49 KVA
TOTAL NONCONTINUOUS LOAD: 27.97 KVA
TOTAL MOTOR LOAD: 0.00 KVA
LARGEST MOTOR @ 25%: 0 KVA 0.00 KVA

TOTAL DEMAND LOAD: 66.48 KVA | CONNECTED KVA TOTAL/PHASE: A 26.98, B 30.19, C 26.99 | MINIMUM FEEDER CAPACITY 66.48 KVA 184.54 AMP

(E) PANEL N2LD4

SECTION 2 OF 3 | SERVING NORMAL | LOCATION: ELEC RM 2751 | PANEL A.I.C.: 10,000 | MOUNTING: 0 SURFACE
BUS RATING: 225 AMP | MAIN BREAKER: | X MAIN LUGS ONLY | THREE PHASE 4-WIRE | VOLTAGE 208Y/120

LOAD DESCRIPTION	CONT.	RECP.	MOTOR	NON	AMP	POLE	CKT #	PH	CKT #	POLE	AMP	CONT.	RECP.	MOTOR	NON	LOAD DESCRIPTION
RECEPT		1.18			20	1	1	A	2	1	20		1.44			RECEPT 1895
RECEPT		1.28			20	1	3	B	4	1	20		0.90			RECEPT 1899
SPARE					20	1	**5**	C	6	1	20		0.89			RECEPT 1895
RECEPTS UPTAKE 1874		**0.72**			20	1	**7**	A	8	1	20		0.64			RECEPT 1891
RECEPTS GURNEY 1871 JAN 1892		**0.72**			20	1	**9**	B	10	1	20		1.12			RECEPT 1891
SPARE					20	1	**11**	C	**12**	1	20					**SPARE**
SPARE					20	1	**13**	A	**14**	1	20					**SPARE**
SPARE					20	1	**15**	B	**16**	1	20					**SPARE**
SPARE					20	1	**17**	C	**18**	1	20					**SPARE**
SPARE					20	1	19	A	20	2	20				1.66	TREADMILL
RECEPT		0.72			20	1	21	B	22						1.66	
SPARE JBOX					20	1	23	C	24	1	20		0.56			RECEPT 1865H
RECEPT		0.80			20	1	25	A	26	1	20		0.72			RECEPT 2770 B,C,A
SPARE JBOX					20	1	27	B	28	1	20					SPARE
DICTATION STATION				1.08	20	1	29	C	30	1	20		1.44			RECEPT RM 1751
DICTATION STATION				0.90	20	1	31	A	32	1	20		0.90			RECEPT 2770D, 2750
DICTATION STATION				0.80	20	1	33	B	34	1	20		0.36			RECEPT RM 1874
DICTATION STATION				0.72	20	1	35	C	36	1	20					SPARE
SPARE					20	1	37	A	38	1	20					SPARE
SPARE					20	1	39	B	40	1	20					SPARE
SPARE					20	1	41	C	42	1	20					SPARE
TOTALS ------>	0.00	5.42	0.00	3.50								0.00	8.97	0.00	3.33	<---- TOTALS

SEE 'SECTION 1 PANEL N2LD3' FOR PANEL LOAD SUMMARY

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(E) PANEL N2LD5

SECTION 3 OF 3 | SERVING NORMAL | LOCATION: ELEC RM 2751 | PANEL A.I.C.: 10,000 | MOUNTING: X SURFACE
BUS RATING: 225 AMP | MAIN BREAKER: | X MAIN LUGS ONLY | THREE PHASE 4-WIRE | VOLTAGE 208Y/120

LOAD DESCRIPTION	CONT.	RECP.	MOTOR	NON	AMP	POLE	CKT #	PH	CKT #	POLE	AMP	CONT.	RECP.	MOTOR	NON	LOAD DESCRIPTION
TVSS					15	1	1	A	**2**	1	20					**SPARE**
TVSS					15	1	3	B	4	1	20	0.40				LTG 1865K
TVSS					15	1	5	C	6	1	20	0.20				LTG 1865K
LIGHTING SOUTHWEST	0.62				20	1	7	A	8	1	20	0.20				LTG 1865J
LIGHTING SOUTHWEST	0.35				20	1	9	B	10	1	20	0.40				LTG 1865J
LCP POWER				1.00	20	1	11	C	12	1	20	0.20				LTG 1865I
LIGHTING SOUTHWEST	0.65				20	1	13	A	14	1	20	0.30				LTG 1865I
LIGHTING WEST	0.90				20	1	15	B	16	1	20	0.40				LTG 1865G
RECEPTACLES 27708		0.54			20	1	17	C	18	1	20	0.20				LTG 1865G
SPARE					20	1	19	A	20	1	20	0.40				LTG 1865H
SPARE					20	1	21	B	22	1	20	0.20				LTG 1751 (RECESSED LT)
LIGHT 1751 94254	1.00				20	1	23	C	24	1	20	0.20				LTG 1865F
SPARE					20	1	25	A	26	1	20	0.20				LTG 1865F
SPARE					20	1	27	B	28	1	20	0.40				LTG 1865F
SPARE					20	1	29	C	**30**	1	20					**SPARE**
SPARE					20	1	31	A	32	1	20					SPARE
SPARE					20	1	33	B	34	1	20					SPARE
SPARE					20	1	35	C	36	1	20					SPARE
SPARE					20	1	37	A	38	1	20					SPARE
⚠2 ⟨9⟩ **TEMPORARY CONSTRUCTION**				**4.16**	50	2	**39**	B	40	1	20					SPARE
POWER				**4.16**			**41**	C	42	1	20					SPARE
TOTALS ------>	3.52	0.54	0.00	9.32								3.70	0.00	0.00	0.00	<---- TOTALS

SEE 'SECTION 1 PANEL N2LD3' FOR PANEL LOAD SUMMARY

(E) PANEL N2HDC1

SECTION: 1 OF 1 | SERVING: NORMAL | LOCATION: ELEC RM 2784 | PANEL A.I.C.: 35,000 | MOUNTING: X SURFACE
BUS RATING: 1000 AMP | MAIN BREAKER: | X MAIN LUGS ONLY | THREE PHASE 4-WIRE | VOLTAGE 480Y/277

LOAD DESCRIPTION	CONT.	RECP.	MOTOR	NON	AMP	POLE	CKT #	PH	CKT #	POLE	AMP	CONT.	RECP.	MOTOR	NON	LOAD DESCRIPTION
				6.66			1	A	**2**							
XFMR T-N2D3				6.66	100	3	3	B	**4**	3	90					**SPARE**
				6.66			5	C	**6**							
				10.53			7	A	8							
ROOM 1835J				10.53	125	3	9	B	10							**UNUSABLE SPACE**
				10.53			11	C	12							
				26.33			13	A	14						10.53	
ROOM 1835H				26.33	125	3	15	B	16	3	125				10.53	ROOM 1835N
				26.33			17	C	18						10.53	
				26.33			19	A	20						10.53	
ROOM 1835I				26.33	125	3	21	B	22	3	125				10.53	ROOM 1835L
				26.33			23	C	24						10.53	
							25	A	26						10.53	
SPARE					125	3	27	B	28	3	150				10.53	ROOM 1835A
							29	C	30						10.53	
							31	A	32							
SPARE					125	3	33	B	34	3	125					SPARE
							35	C	36							
							37	A	38							
SPACE						3	39	B	40	3	225					SPARE
							41	C	42							
							43	A	44							
						3	45	B	46	3						
							47	C	48							
							49	A								
PANEL N2HB2					800	3	51	B								**UNUSABLE SPACE**
							53	C								
TOTALS ------>	0.00	0.00	0.00	209.55								0.00	0.00	0.00	94.77	<---- TOTALS

TOTAL CONTINUOUS LOAD @ 125%: 0.00 KVA
TOTAL RECEPTACLE LOAD, 100% FOR FIRST 10,000VA, & 50% FOR REMAINDER: 0.00 KVA
TOTAL NONCONTINUOUS LOAD: 304.32 KVA
TOTAL MOTOR LOAD: 0.00 KVA
LARGEST MOTOR @ 25%: 0 KVA 0.00 KVA

TOTAL DEMAND LOAD: 304.32 KVA | CONNECTED KVA TOTAL/PHASE: A 101.4, B 101.4, C 101.4 | MINIMUM FEEDER CAPACITY 304.32 KVA 366.04 AMP

(E) PANEL EQ2HDB1

SECTION: 1 OF 1 | SERVING: EQUIPMENT | LOCATION: ELEC RM 2784 | PANEL A.I.C.: 22,000 | MOUNTING: X SURFACE
BUS RATING: 600 AMP | MAIN BREAKER: | X MAIN LUGS ONLY | THREE PHASE 4-WIRE | VOLTAGE 480Y/277

LOAD DESCRIPTION	CONT.	RECP.	MOTOR	NON	AMP	POLE	CKT #	PH	CKT #	POLE	AMP	CONT.	RECP.	MOTOR	NON	LOAD DESCRIPTION
				15.0			**1**	A	2					3.7		
⟨5⟩⟨1⟩ **NUC MED 1 1878B**				**15.0**	**90**	**3**	**3**	B	4	3	25			3.7		H-1 (STEAM HUMIDIFIER) ⚠1
				15.0			**5**	C	6					3.7		
				7.5			**7**	A	8						16.7	
⟨6⟩⟨1⟩ **NUC MED 2 1877A**				**7.5**	**90**	**3**	**9**	B	10	3	90				16.7	PET CT
				7.5			**11**	C	12						16.7	
			13.0				13	A	**14**						**3.0**	
MED VAC PUMP ROOM 2782			13.0		60	3	15	B	**16**	**3**	**90**				**3.0**	**NUC MED 3 1865A** ⟨1⟩⟨7⟩
			13.0				17	C	**18**						**3.0**	
				26.3			19	A	20						26.3	X-RAY RM 1835C. 150% OF 158KVA
CATH LAB 1745B				26.3	125	3	21	B	22	3	125				26.3	MOMENTARY, LONG TIME RATING IS
				26.3			23	C	24						26.3	LESS THAN 78 KVA
TOTALS ------>	0.00	0.00	39.00	146.4								0.00	0.00	11.22	138.0	<---- TOTALS

TOTAL CONTINUOUS LOAD @ 125%: 0.00 KVA
TOTAL RECEPTACLE LOAD, 100% FOR FIRST 10,000VA, & 50% FOR REMAINDER: 0.00 KVA
TOTAL NONCONTINUOUS LOAD: 284.40 KVA
TOTAL MOTOR LOAD: 50.22 KVA
LARGEST MOTOR @ 25%: 22.4 KVA 5.61 KVA

TOTAL DEMAND LOAD: 340.23 KVA | CONNECTED KVA TOTAL/PHASE: A 111.5, B 111.5, C 111.5 | MINIMUM FEEDER CAPACITY 340.23 KVA 409.23 AMP

(E) PANEL C2LD1

SECTION 1 OF 1 | SERVING CRITICAL | LOCATION: ELEC RM 2751 | PANEL A.I.C.: 10,000 | MOUNTING: X SURFACE
BUS RATING: 225 AMP | X MAIN BREAKER: 225 AMP | THREE PHASE 4-WIRE | VOLTAGE 208Y/120 | FED BY 75KVA XFMR T-C2D1

LOAD DESCRIPTION	CONT.	RECP.	MOTOR	NON	AMP	POLE	CKT #	PH	CKT #	POLE	AMP	CONT.	RECP.	MOTOR	NON	LOAD DESCRIPTION
TVSS					15	1	1	A	2	1	20				1.18	REFRIG
TVSS					15	1	3	B	4	1	20					SPARE
TVSS					15	1	5	C	**6**	1	20		**1.26**		**0.03**	**RECEPTS 1865I,1877,1878A,1878C**
HEADWALL RM 1755		1.44			20	1	7	A	8	1	20		0.18			CRASH CART 1865H
HEADWALL RM 1755		1.44			20	1	9	B	10	1	20		0.72			RECEPT RM 2755
HEADWALL RM 1755		1.44			20	1	11	C	12	1	20		0.72			RECEPT RM 2755
HEADWALL RM 1755		1.44			20	1	13	A	14	1	20		0.90			RECEPT RM 2755
HEADWALL RM 1755		1.44			20	1	15	B	16	1	20		1.08			RECEPT RM 2755
HEADWALL RM 1755		1.44			20	1	17	C	18	1	20		0.90			RECEPT RM 2755
HEADWALL RM 1755		1.44			20	1	19	A	20	1	20		0.90			RACK RM 2755
RECEPT RM 1755		0.50			20	1	21	B	22	1	20		0.90			RACK RM 2755
RECEPT RM 1755		0.50			20	1	23	C	24	1	20				0.50	NURSE CALL RM 2751
RECEPT RM 1755		0.50			20	1	25	A	26				1.00			
RECEPTS UPTAKE 1874, S.S.		**0.18**		**0.01**	20	1	**27**	B	28	3	30		1.00			POWER STRIP RM 2755
RECEPT RM 1890		0.60			20	1	29	C	30				1.00			
HEADWALL RM 1755		1.44			20	1	31	A	32	2	30			1.00		ACCU 1
HEADWALL RM 1755		1.44			20	1	33	B	34					1.00		
HEADWALL RM 1755		1.44			20	1	35	C	36	1	20			1.00		FC-3 RM 2717
							37	A	38				1.00			
NORMAL POWER TIE-IN (OFF)					60	3	39	B	40	3	30		1.00			RACK POWER RM 2717
CONFIRM REMOVAL W/ PO&M							41	C	42				1.00			
TOTALS ------>	0.00	16.68	0.00	0.01								0.00	13.56	3.00	1.71	<---- TOTALS

TOTAL CONTINUOUS LOAD @ 125%: 0.00 KVA
TOTAL RECEPTACLE LOAD, 100% FOR FIRST 10KVA, & 50% FOR REMAINDER: 20.12 KVA
TOTAL NONCONTINUOUS LOAD: 1.72 KVA
TOTAL MOTOR LOAD: 3.00 KVA
LARGEST MOTOR @ 25%: 2 KVA 0.50 KVA

TOTAL DEMAND LOAD: 25.34 KVA | CONNECTED KVA TOTAL/PHASE: A 12.42, B 10.71, C 11.83 | MINIMUM FEEDER CAPACITY 25.34 KVA 70.34 AMP

PANEL NUMBERED NOTES

1. (N) CIRCUIT BREAKER UTILIZING HOSPITAL'S EMERGENCY POWER WILL REQUIRE COORDINATION STUDY OF BREAKERS. (HCAI PIN 70) SEE TCC-1 ON SHEET E602.
2. REMOVE (E) 15A/3P CIRCUIT BREAKER AND PROVIDE (N) 20A/1P CIRCUIT BREAKERS IN SPACES INDICATED. MATCH (E) TYPE AND AIC RATING.
3. PROVIDE (N) 20A/1P CIRCUIT BREAKER IN SPACE INDICATED. MATCH (E) TYPE AND AIC RATING.
4. PROVIDE GE TYPE SPECTRA RMS, 3-POLE, 90A PLUG, FEEDER CIRCUIT BREAKER.
5. 50% CEC LOAD ADJUSTMENT FACTOR FOR LARGEST IMAGING IMAGING EQUIPMENT.
6. 25% CEC LOAD ADJUSTMENT FACTOR FOR 2ND LARGEST IMAGING EQUIPMENT.
7. 10% CEC LOAD ADJUSTMENT FACTOR FOR 3RD LARGEST IMAGING EQUIPMENT.
8. ⚠1 REMOVE (3) (E) 20A/1P SPARE CIRCUIT BREAKERS AND PROVIDE (N) 20A/3P CIRCUIT BREAKER INDICATED, MATCH (E) TYPE AND AIC RATING.
9. ⚠2 CONTRACTOR MAY USE (E) 50A/2P BREAKER FOR TEMPORARY CONSTRUCTION POWER. COORDINATE W/ PO&M PRIOR INSTALLATION.

PANEL SCHEDULE NOTES

1. ALL CIRCUITS INDICATED "LIGHT" ON PANEL SCHEDULES ARE EXISTING TO REMAIN AND HAVE NOT BEEN MODIFIED AS PART OF THIS PROJECT.
2. ALL CIRCUITS INDICATED "BOLD" ON PANEL SCHEDULES HAVE BEEN MODIFIED, ALTERED, OR ADDED AS PART OF THIS PROJECT.
3. PROVIDE UPDATED 'TYPEWRITTEN' PANEL INDEX. PANEL INDEX SHALL INCLUDE DATE APPLIED AND ALSO WHERE THE PANEL IS FED FROM.
4. PROVIDE BLANK COVER PLATES OVER ANY EXPOSED CIRCUIT BREAKER SPACE THAT IS EXPOSED.
5. UPON OPENING EXISTING PANELS, TURN ANY CIRCUIT BREAKERS WITH NO CONDUCTORS OR NOT CONNECTED TO A LOAD INTO THE "OFF" POSITION AND UPDATE PANEL SCHEDULE.

PANEL SCHEDULE INDEX

N2HD1	N2LD3	N2HDC1
N1LRD2	N2LD4	EQ2HDB1
N1LRD4	N2LD5	C2LD1
N1LRD5		

DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

nacht&lewis
600 Q Street, Suite 100
Sacramento, CA 95811
www.nachtlewis.com
916.329.4000

LICENSED ARCHITECT JOHN M. ATH No. C-21560 REN. 12-31-25 STATE OF CALIFORNIA
REGISTERED PROFESSIONAL ENGINEER GORDON PAK KEI WONG No. E 18416 ELECTRICAL STATE OF CALIFORNIA
12/06/2024
DESIGN PROFESSIONALS OF RECORD:

UC DAVIS HEALTH
Facilities Design & Construction
4800 2nd Avenue Suite 3010
Sacramento, California 95817
(916)734-7024

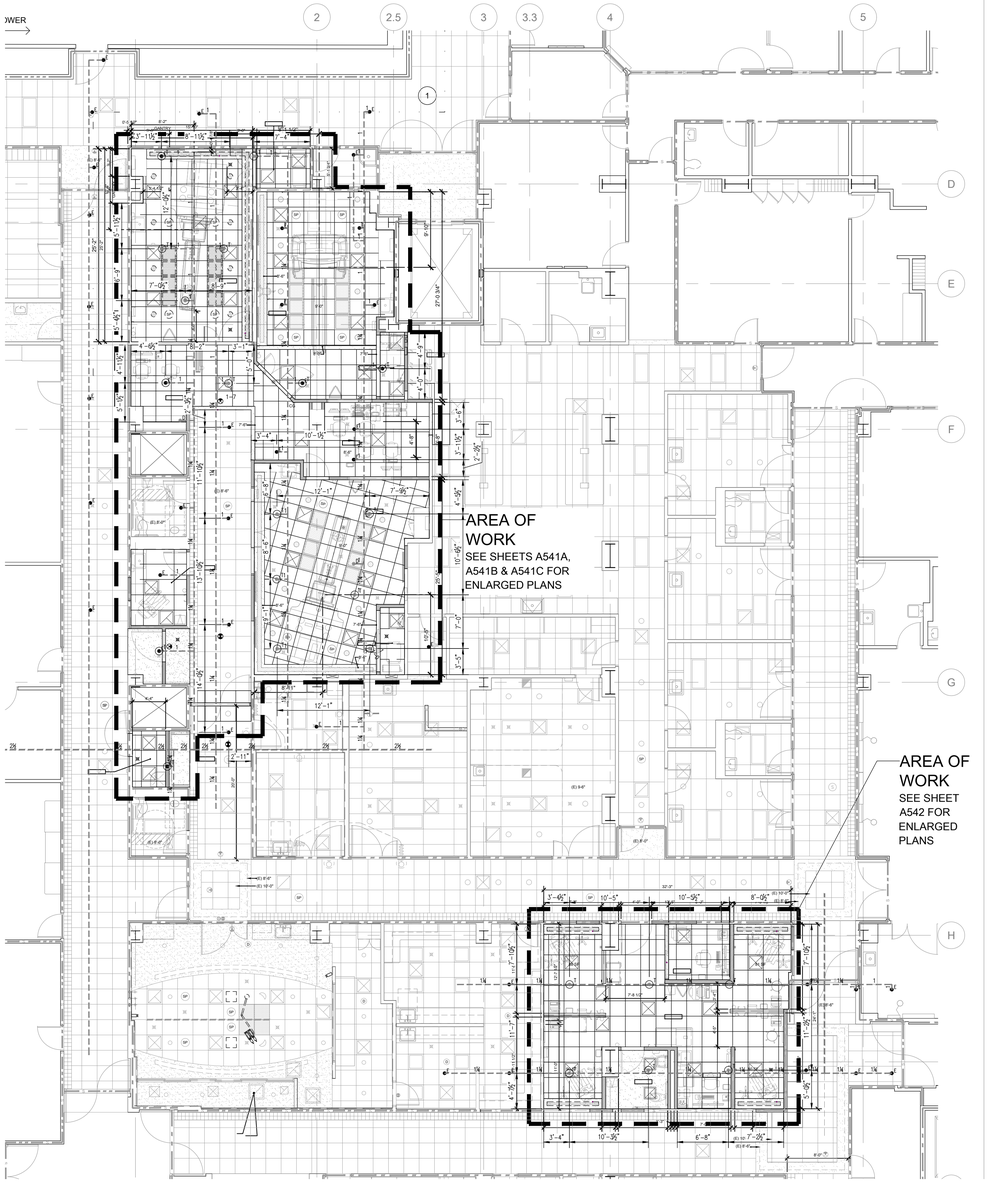
EDGE ELECTRICAL CONSULTING
Project Number H020
Contact Lai Vo
400 R Street, Ste 333
Sacramento, CA 95811
916.256.2460
Sacramento | Alameda | Irvine
CONSULTANT LOGO:

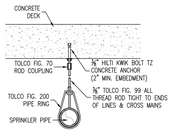
REV	REVISION DESCRIPTION	DATE
1	HCAI BACKCHECK 01	5/17/2024
2	BID ADDENDA	12/6/2024

CONSTRUCTION DOCUMENTS

ACCOUNT NO.: 9557570
OSHPD NO.: S240360-34-00
BUILDING: DAVIS TOWER, UNIVERSITY OF CA DAVIS, MEDICAL CENTER
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: DT 1ST FLR RAD NUCLEAR MEDICINE REMODEL
SHEET TITLE: **PANEL SCHEDULES**

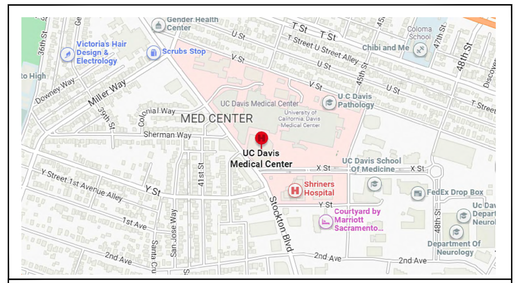
ARCH.\ENGR.	FD&C JOB NO.	SHEET NO.
G. Wong	-	E701
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN	
DESIGNED BY: L.Vo	DATE: 12/21/23	
DRAWN BY: A. Le	CAD FILE: -	SHEET / OF





CONCRETE WEDGE ANCHOR
HANGER #9

HANGER DETAILS



VICINITY MAP

Page 1 of 6

VIKING® | **TECHNICAL DATA** | **VK3001 QUICK RESPONSE UPRIGHT SPRINKLER (K5.6)**

The Viking Corporation, 210 N Industrial Park Drive, Hastings MI 49058
Telephone: 269-945-9501 Technical Services: 877-384-5464 Fax: 269-818-1680 Email: techsvcs@vikingcorp.com
Visit the Viking website for the latest edition of this technical data page www.vikinggroupinc.com

1. DESCRIPTION
The Viking VK3001 Quick Response Upright Sprinkler is a small thermosensitive glass bulb spray sprinkler available with various finishes and temperature ratings to meet design requirements. The special Polyester and Electroless Nickel PTFE (ENT) coatings can be used in decorative applications where colors are desired. In addition, these coatings have been investigated for installation in corrosive environments and are Listed and Approved as indicated in the Approval Chart.

2. LISTINGS AND APPROVALS
- UL Listed: Category VNIV
- FM Approved: Classes 2016, 2043. Also approved for use in FM Approved vacuum dry sprinkler systems with a maximum supervisory vacuum pressure of -3 PSI (-207 mbar).
- CE: Standard EN12259-1, DOP_XT1A
- LPCB Approved: reference no. 096m
- VdS Approved: Certificate no. G 422005

Refer to the Approval Chart and Design Criteria for requirements that must be followed.

WARNING: Cancer and Reproductive Harm: www.P65Warnings.ca.gov

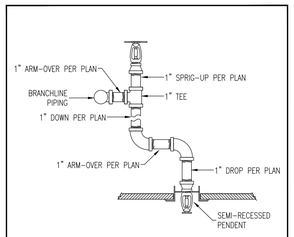
3. TECHNICAL DATA
Minimum Operating Pressure: 7 PSI (0.5 bar)
Rated to: UL - 250 PSI (17 bar) WWP
FM, CE, LBCP, and VdS 175 PSI (12 bar) WWP
Factory tested hydrostatically to 500 PSI (34.5 bar)
Thread size: 1/2" NPT (15 mm BSPT)
Nominal K-factor: 5.6 U.S. (80.6 metric*)
Glass-bulb fluid temperature rated to -65 °F (-55 °C)
Metric K-factor measurement shown is in bar. When pressure is measured in kPa, divide the metric K-factor shown by 10.0.
Material Standards:
Sprinkler Body: Brass CW602N, UNS-C84400 or QM Brass
Deflector: Stainless Steel UNS S30400
Pip Cap Shell - Stainless Steel UNS-S44400
Pip Cap Disc - Stainless Steel UNS-S30100
Belleville Spring - Nickel Alloy
Pip Cap Seal - Polytetrafluoroethylene (PTFE)
Compression Screw: Brass CW612N, CW508L, UNS-C36000 or UNS-C26000
Shipping Cap: Polyethylene
Bulb: Glass, nominal 3 mm diameter
Ordering Information: (Refer to Table 1 and the current Viking List Price Book.)

4. INSTALLATION
Refer to appropriate NFPA, FM Global, and/or any other applicable installation standards. Refer to Figure 3

NOTICE **Risk of permanent damage.**
Over-tightening the sprinkler can cause permanent damage.
> Tighten the sprinkler to a MAXIMUM torque of 14 ft-lbs (19 N-m).

5. OPERATION
During fire conditions, when the temperature around the sprinkler reaches its operating temperature, the heat-sensitive liquid in the glass bulb expands, causing the bulb to shatter, releasing the pip cap assembly. Water flowing through the sprinkler orifice strikes the sprinkler deflector, forming a uniform spray pattern to extinguish or control the fire.

Form No. F_110420 Rev 22.1 February 22, 2022 — Replaces page F_110420 Rev. 21.2 (Added LPCB and VdS details)



FIRE SPRINKLER DROP DETAIL

FIRE SPRINKLER GENERAL NOTES

SCOPE OF WORK: ADD/RELOCATE/REMOVE FIRE SPRINKLERS TO ACCOMMODATE NEW WALL AND CEILING LAYOUT IN A541A, A541B A541C & A542.
- TEMPORARY UPRIGHT SPRINKLERS SHALL BE INSTALLED TO MAINTAIN COVERAGE DURING DEMO AND CONSTRUCTION PHASES PER PLANS.
- TEMPORARY SPRINKLERS TO BE INSTALLED AT EXISTING OUTLETS PER PLANS.
- TEMPORARY UPRIGHT SPRINKLERS TO BE REMOVED AND OUTLETS SHALL BE PLUGGED DURING FINAL INSTALLATION PHASE OF NEW PENDENT SPRINKLER LAYOUT. SEE FP-1 FOR NEW LAYOUT.

1. THE AUTOMATIC SPRINKLER SYSTEM SHALL CONFORM TO THE REQUIREMENTS OF THE 2022 EDITION OF NFPA 13 WITH CALIFORNIA AMENDMENTS.
2. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE OF AN APPROVED MATERIAL AS PRESCRIBED IN THE CBC.
3. MODIFICATIONS TO THE EXISTING FIRE SPRINKLER SYSTEM SHALL REQUIRE TESTING AT SYSTEM WORKING PRESSURE PER NFPA 13 30.8.1
4. WHERE MODIFICATION IS MADE TO AN EXISTING SYSTEM AFFECTING MORE THAN 20 SPRINKLERS, THE NEW PORTION SHALL BE ISOLATED AND TESTED AT NOT LESS THAN 200 PSI FOR 2 HOURS PER NFPA 13 30.8.1.1
5. MODIFICATIONS THAT CANNOT BE ISOLATED, SUCH AS RELOCATED DROPS, SHALL REQUIRE TESTING AT SYSTEM WORKING PRESSURE PER NFPA 13 30.8.1.2
6. THE SPRINKLER SYSTEM MUST BE TESTED IN THE PRESENCE OF THE AHJ OR A REPRESENTATIVE THEREOF.
7. ALL NEW PIPING SHALL BE SCHEDULED 40 COATED WITH "ABF" TO RESIST MICROBIOLOGICALLY INFLUENCED CORROSION (MIC).
8. ALL DEVICES SHALL BE U.L. LISTED OR F.M. APPROVED FOR FIRE SERVICE.
9. EARTHQUAKE BRACING OF THE SPRINKLER SYSTEM IS EXISTING TO REMAIN. NO NEW WORK.
10. ALL NEW FIRE SPRINKLERS SHALL BE QUICK RESPONSE TYPE.
11. ALL CONCEALED SPACES ARE NON-COMBUSTIBLE.
12. ALL ELECTRICAL WIRING, IF ANY, TO BE PERFORMED BY OTHERS.

NOTICE:

Professional Engineers stamp use, is intended to provide local review agency acceptance. Engineer stamp does not intend to show complete design under the engineer's direction or organization. The contractor shall remain solely responsible for details and accuracy, for confirming and correlating all quantities and dimensions, for selecting fabrication processes, techniques of assembly and for performing their work in a safe manner. The stamping of these drawings is intended to NOT conflict with California Business & Professional Code Sections 6735, 6735.3 & 6735.4

LEGEND

2-WAY EARTHQUAKE BRACE	[X (lbs) - ELEVATION BELOW DECK
4-WAY EARTHQUAKE BRACE	X-X - ELEVATION A.F.F.
BRANCHLINE RESTRAINT	UNO - UNLESS NOTED OTHERWISE
FLEXIBLE GROOVED COUPLING	COU - CUT ON JOB
RIGID GROOVED COUPLING	TOE - THREAD ONE END
GROOVED CAP	GOE - GROOVE ONE END
HANGER No.	GBE - GROOVE BOTH ENDS
APPROX. HANGER LOCATION	T&G - THREAD AND GROOVE
SYSTEM RISER	F&G - FLANGE AND GROOVE
	TOR - TOP OF RISER
	BOR - BOTTOM OF RISER
HYDRAULIC REFERENCE NODE	UG - UNDERGROUND
	RN - RISER NIPPLE
	SU - SPRIG-UP

SPRINKLERS

SYM.	CNT.	ORIF. K-FACTOR	NPT	MFG.	TEMP.	FINISH	RESPONSE-STYLE	S.I.N.	MODEL#	ESCUTCHEON/NOTE
○	23	(1/2", K=5.6)	1/2	VKG	200	BRASS	QR-UPRIGHT	VK3001	23B694E	CHROME GUARD/TEMPORARY

23 = TOTAL TEMPORARY SPRINKLERS

LEGEND:
- = RELOCATED PENDENT SPRINKLER
- = NEW PENDENT SPRINKLER T BE INSTALLED
- = TEMPORARY UPRIGHT TO BE INSTALLED/REMOVED AND OUTLET PLUGGED
- = EXISTING PENDENT SPRINKLER TO REMAIN
- = EXISTING PENDENT TO BE REMOVED
- = EXISTING PIPING
- = NEW PIPING
- = EXISTING BRANCHLINE RESTRANT TO REMAIN
- = APPROXIMATE HANGER LOCATION (NEW OR EXISTING)
- = CAP AT END OF SPRINKLER PIPING

6" 1' 2' 4' 8'

DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

nacht&lewis
600 Q Street, Suite 100
Sacramento, CA 95811
www.nachtlewis.com
916.329.4000

DESIGN PROFESSIONALS OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE SUITE 3010
SACRAMENTO, CALIFORNIA 95817
(916)734-7934

MARQUEE FIRE PROTECTION
A Pye Barker Company
3875 Atherton Rd. Ste. #200
Rocklin, CA. 95765-3716
TEL. 916.641-7997 FAX. 916.641-0775
CA. LIC. 1077494 C-16

CONSULTANT LOGO:

JOB# 1823-689

REV	REVISION DESCRIPTION	DATE
1	HCAI BACKCHECK 01	05/17/2024
2	ADDENDUM #1	12/06/2024

CONSTRUCTION DOCUMENTS

ACCOUNT NO. 9557570
OSHPD NO. S240360-34-00
BUILDING: DAVIS TOWER, UNIVERSITY OF CA DAVIS, MEDICAL CENTER
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: DT 1ST FLR RAD NUCLEAR MEDICINE REMODEL
SHEET TITLE: FIRE SPRINKLER PLANS

ARCH.\ENGR. -	FD&C JOB NO. -	SHEET NO.	2
UCDMC PROJECT MANAGER -	SCALE 1/8" = 1'- 0"	FP-2	
DESIGNED BY A.IRWIN	DATE 01/10/23		
DRAWN BY A.IRWIN	CAD FILE -	SHEET 1	OF 2