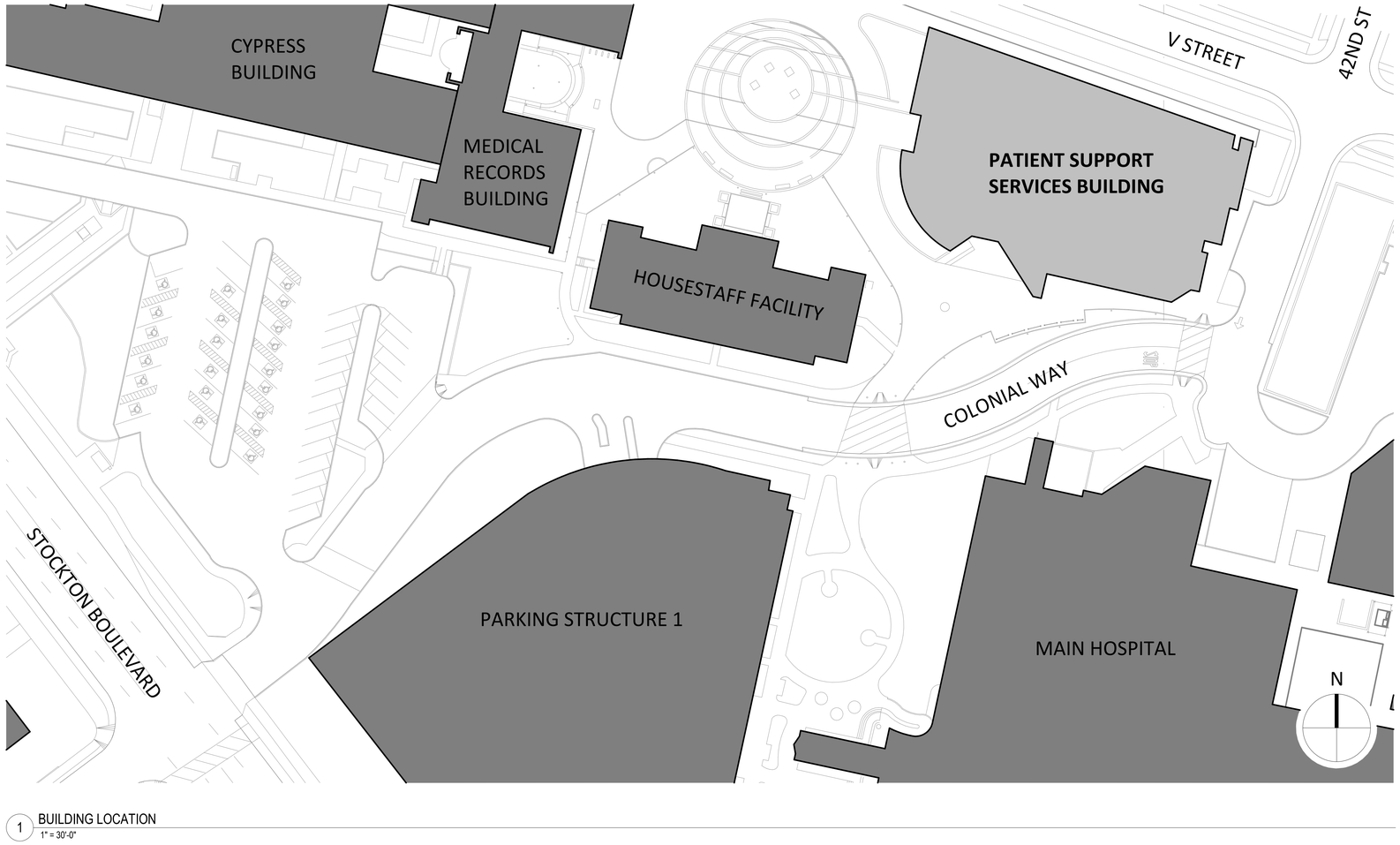


1 BUILDING LOCATION
1" = 30'-0"

UC DAVIS HEALTH BUILDING DEPARTMENT
APPROVED
REVIEWED FOR CODE COMPLIANCE
The set of plans and specifications must be kept on the job site at all times and it is unlawful to make any changes or alterations to the approved set without written permission from the Building Department.
The approval of this plan and specifications SHALL NOT be held to permit or approve the violation of any University Policy or State Building Code.
BY: Paul R Menard AIA, CBO DATE: 1/10/2024
PROJECT #: UCOH-2023-0230
UC Davis Health
Sacramento, CA 95817

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
Will Gilliland
Will Gilliland
Fire Inspector
On behalf of Jonathan Cox, P.E.
Lead Deputy State Fire Marshal
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

PSSB NET V2 UPGRADE

4150 V St,
Sacramento, CA 95817

UC DAVIS HEALTH

HGA
1200 R STREET, SUITE 100
SACRAMENTO, CALIFORNIA 95811
TELEPHONE: 916.787.5100

STRUCTURAL ENGINEER
HGA
1200 R Street, Suite 100
Sacramento, CA 95811
916.787.5100

MECHANICAL ENGINEER
R&A Engineering Solutions, Inc.
1111 Howe Ave, Suite 655
Sacramento, CA 95825
916.920.5965

ELECTRICAL ENGINEER
ECOM
1455 Reponse Road, Suite 140
Sacramento, CA 95815
916.641.1640

CONTACT INFORMATION

OWNER: UC DAVIS
CONTACT: KENNETH PICKETT EMAIL: KPICKETT@UCDAVIS.EDU

ARCHITECT: HAMMEL, GREEN AND ABRAHAMSON PHONE: (916)787-5118
CONTACT: COURTNEY MCLEOD GOLDEN EMAIL: CMCLEODGOLDEN@HGA.COM

ELECTRICAL: ECOM ENGINEERING PHONE: (916) 641-5600
CONTACT: ERIC JOHNSON EMAIL: ECJ@ECOMENG.COM

MECHANICAL: R&A ENGINEERING SOLUTIONS, INC. PHONE: (916) 920-5965
CONTACT: ANDREW JONES EMAIL: ANDYJ@RASOLUTIONS.COM

STRUCTURAL: HAMMEL, GREEN AND ABRAHAMSON PHONE: (916) 787-5120
CONTACT: BRENT FORSLIN EMAIL: BFORSLIN@HGA.COM

PROJECT INFORMATION

PROJECT NAME: PSSB NETV2 UPGRADE

PROJECT DESCRIPTION: NET V2 IT INFRASTRUCTURE UPGRADE IN THE UC PATIENT SERVICES AND SUPPORT BUILDING (#14). WORK TO EXISTING TELECOM ROOMS WILL UPGRADE ELECTRICAL, IT, AND MECHANICAL SYSTEMS. THIS INCLUDES BUT IS NOT LIMITED TO RELOCATING EXISTING EQUIPMENT RACKS, ADDING NEW RACKS, NEW UPS, RECEPTACLES, LIGHT FIXTURES, MINI POWER ZONES, AND POWER DISTRIBUTION UNITS. NEW HVAC SYSTEM INSTALLATION AND ASSOCIATED PIPING, AS WELL AS CEILING DEMOLITION ARE ALSO INCLUDED AS PART OF THIS PROJECT. WORK DOES NOT IMPACT EXISTING FIRE SEPARATION WALLS.

PROJECT ADDRESS:
PATIENT SERVICES AND SUPPORT BUILDING (PSSB) BLDG #14
4150 V STREET
SACRAMENTO, CA 95817

BUILT: 1992

CONSTRUCTION TYPE:
TYPE I-B

SEISMIC ZONE: ZONE 3

NO. OF STORIES:
BASEMENT + 3 STORIES

BUILDING HEIGHT:
BASEMENT (18'-0" BELOW GRADE)
+ 3 STORIES (62'-6")

FIRE PROTECTION:
FULLY FIRE ALARMED (EXISTING)
FULLY SPRINKLED (EXISTING)

BUILDING HEIGHT:
BASEMENT (18'-0" BELOW GRADE)
+ 3 STORIES (62'-6")

OCCUPANCY:
B - BUSINESS

PROJECT OCCUPANCY:
B

BUILDING AREA:

BASEMENT:	17,835 S.F.
1ST FLOOR:	18,550 S.F.
2ND FLOOR:	17,865 S.F.
3RD FLOOR:	17,680 S.F.
PENTHOUSE:	1,410 S.F.
TOTAL BUILDING AREA :	**73,340 S.F.**

PROJECT FLOOR AREA:

BASEMENT:	484 S.F.
1ST FLOOR:	586 S.F.
2ND FLOOR:	398 S.F.
3RD FLOOR:	517 S.F.
PENTHOUSE:	0 S.F.
TOTAL PROJECT AREA :	2,724 S.F.

EXISTING CONDITIONS:
AS-BUILT CONDITIONS OF THIS BUILDING HAVE NOT BEEN VERIFIED. CONTRACTOR SHALL DETERMINE EXACT LOCATIONS OF NEW WORK AND EQUIPMENT PER EXISTING CONDITIONS. ALL DIMENSIONS SHOWN ON DRAWINGS SHALL BE VERIFIED IN FIELD BEFORE WORK IS COMPLETE.

CODE INFORMATION

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC)
PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
2022 CALIFORNIA BUILDING CODE (CBC):
PART 2, TITLE 24, CCR; BASED ON THE 2021 INTERNATIONAL BUILDING CODE (IBC)
2022 CALIFORNIA ELECTRICAL CODE (CEC):
PART 3, TITLE 24, CCR; BASED ON THE 2017 NATIONAL ELECTRICAL CODE (NEC)
2022 CALIFORNIA MECHANICAL CODE (CMC):
PART 4, TITLE 24, CCR;BASED ON THE 2021 UNIFORM MECHANICAL CODE (UMC)
2022 CALIFORNIA PLUMBING CODE:
PART 5, TITLE 24, CCR; BASED ON THE 2021 UNIFORM PLUMBING CODE (UPC)
2022 CALIFORNIA FIRE CODE(CFC):
PART 9, TITLE 24, CCR, BASED ON THE 2021 INTERNATIONAL FIRE CODE (IFC)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC):
PART 10, TITLE 24, CCR; BASED ON THE 2021 INTERNATIONAL BUILDING CODE (IBC) AND CA AMENDMENTS
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE:
PART 11, TITLE 24, CCR
2022 CALIFORNIA REFERENCE STANDARDS CODE(CFC):
PART 12, TITLE 24, CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
CALIFORNIA CODE OF REGULATIONS:
PART 19, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
LIFE SAFETY CODE:
2018 NFPA 101 LIFE SAFETY CODE
ACCESSIBILITY CODE:
CHAPTER 11/11B, 2022 CBC AND 2010 ADA (28 CFR PART 36)
ENERGY CODE:
2022 CALIFORNIA ENERGY CODE - PART 6, TITLE 24, CCR
SIGN CODE:
AMERICANS WITH DISABILITIES ACT (ADA), CBC (TITLE 24), & UFC (TITLE 19)

DRAWING INDEX

REV #	NUMBER	SHEET NAME
1-GENERAL		
	G000	COVERSHEET
	G012	POST INSTALLED ANCHOR GENERAL NOTES AND GENERAL DETAILS
	G020	ARCHITECTURAL SITE PLANS AND DETAILS
	G030	LIFE SAFETY PLAN - LOWER LEVEL
	G031	LIFE SAFETY PLAN - LEVEL 01
	G032	LIFE SAFETY PLAN - LEVEL 02
	G033	LIFE SAFETY PLAN - LEVEL 03
	G040	CALIFORNIA GREEN BUILDING STANDARDS CODE
	G041	CALIFORNIA GREEN BUILDING STANDARDS CODE
	G042	CALIFORNIA GREEN BUILDING STANDARDS CODE
4-ARCHITECTURAL		
	A010	GENERAL NOTES AND SYMBOLS
	A100	OVERALL DEMOLITION PLANS
	A101	ENLARGED DEMOLITION PLANS & REFLECTED CEILING PLANS
	A200	OVERALL FLOOR PLANS
	A201	ENLARGED FLOOR PLANS & REFLECTED CEILING PLANS
	A400	TYPICAL ROOF DETAILS
5-MECHANICAL		
	MP001	MECHANICAL AND PLUMBING LEGEND, NOTES AND SHEET INDEX
	MP002	MECHANICAL / PLUMBING SCHEDULES & CONTROLS
	MP003	TITLE 24 DOCUMENTATION
	MP004	TITLE 24 DOCUMENTATION
	MP200	OVERALL LOWER LEVEL THROUGH LEVEL 03 MECHANICAL / PLUMBING PLANS
	MP201	ENLARGED LOWER LEVEL THROUGH LEVEL 03 MECHANICAL / PLUMBING PLANS
	MP301	ROOF MECHANICAL / PLUMBING PLAN
	MP601	MECHANICAL / PLUMBING DETAILS
	MP602	MECHANICAL / PLUMBING DETAILS
	MP603	MECHANICAL / PLUMBING DETAILS
6-ELECTRICAL		
	E0.1	SYMBOL LEGEND AND NOTES
	E0.2	SCHEDULES
	E0.3	TITLE 24 LIGHTING COMPLIANCE FORMS
	E1.0	OVERALL BASEMENT FLOOR PLAN - ELECTRICAL
	E1.1	OVERALL FIRST FLOOR PLAN - ELECTRICAL
	E1.2	OVERALL SECOND FLOOR PLAN - ELECTRICAL

DRAWING INDEX

REV #	NUMBER	SHEET NAME
	E1.3	OVERALL THIRD FLOOR PLAN - ELECTRICAL
	E1.4	OVERALL ROOF PLAN - ELECTRICAL
	E2.0	ENLARGED BASEMENT FLOOR PLANS - ELECTRICAL
	E2.1	ENLARGED FIRST FLOOR PLANS - ELECTRCIAL
	E2.2	ENLARGED SECOND FLOOR PLANS - ELECTRICAL
	E2.3	ENLARGED THIRD FLOOR PLANS - ELECTRICAL
	E4.0	TELECOM BACKBONE RISER DIAGRAM
	E5.0	PARTIAL ONE LINE DIAGRAM
	E6.0	PANEL SCHEDULES
	E7.1	DETAILS
	E7.2	DETAILS
	E7.3	DETAILS
	E7.4	DETAILS
	E7.5	DETAILS
	E7.6	DETAILS
Grand total: 47		

HGA COMMISSION NUMBER: 1500-159-01

JUNE 16, 2023

MAP: 4150 V ST,
SACRAMENTO, CA 95817



PROJECT NO. 9559630

THIS ISSUE	ISSUED FOR	DATE
	PLAN REVIEW	06/16/2023
△NO	REVISION DESCRIPTION	DATE

LICENSED ARCHITECT
COURTNEY MCLEOD GOLDEN
C-32210
REN. 5-31-25
STATE OF CALIFORNIA

G000

6/22/2023 1:59:03 PM

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GENERAL POST-INSTALLED ANCHOR NOTES

APPLY UNLESS NOTED OTHERWISE ON STRUCTURAL DRAWINGS OR SPECIFICATIONS.

DESIGN CODE

2022 CALIFORNIA BUILDING CODE (CBC), TITLE 24, PART 2, CCR

SPECIAL INSPECTION

R1

IN ACCORDANCE WITH THE 2022 CBC SECTION 1701, THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION. REFER TO SPECIFICATION SECTIONS, AND THE SPECIAL STRUCTURAL TESTING AND INSPECTION SCHEDULE FOR ADDITIONAL INFORMATION.

PROVIDE A MINIMUM 24 HOUR NOTICE TO THE SPECIAL INSPECTOR PRIOR TO CONSTRUCTION WHICH WOULD RESTRICT INSPECTION OF THE ITEM.

A. EXPANSION ANCHORS

1. TORQUE OR PULL TESTING
2. CONTINUOUS INSPECTION DURING INSTALLATION TO VERIFY
   - ANCHOR TYPE AND DIMENSIONS
   - CONCRETE TYPE, f'c, THICKNESS
   - HOLE DIMENSION, SPACING, AND EDGE DISTANCE
   - EMBEDMENT

SEISMIC CRITERIA

SEISMIC DESIGN CATEGORY.....= D
RISK CATEGORY.....= II
SITE CLASS.....= D
IMPORTANCE FACTOR.....= 1.0
S_{DS}.....= 0.498
S_S.....= 0.549
S_1.....= 0.248

SUPPLEMENTAL NOTES

EXAMINE ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS TO DETERMINE LOCATION AND DIMENSIONS OF CHASES, INSERTS, OPENINGS, SLEEVES, REVEALS, DEPRESSIONS AND OTHER PROJECT REQUIREMENTS NOT SHOWN ON STRUCTURAL DRAWINGS.

BEFORE FABRICATION AND ERECTION OF ANY MATERIALS, FIELD VERIFY ALL EXISTING ELEVATIONS, DIMENSIONS AND CONDITIONS AS SHOWN ON THE DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT/ENGINEER AT ONCE FOR RESOLUTION.

STRUCTURAL MEMBERS INCLUDING JOISTS, SLABS, BEAMS, TRUSSES, COLUMNS AND WALLS ARE DESIGNED FOR "IN PLACE" LOADS. CONTRACTOR IS RESPONSIBLE FOR BRACING, WITHOUT OVERSTRESSING, ALL STRUCTURAL ELEMENTS (AS REQUIRED AT ANY STAGE OF CONSTRUCTION) UNTIL COMPLETION OF THIS PROJECT.

POST INSTALLED ANCHORS

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

CONCRETE EXPANSION BOLTS

ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS GIVEN IN THE ICC RESEARCH COMMITTEE RECOMMENDATIONS FOR THE SPECIFIC ANCHOR.

THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SUCH THAT INTERFERENCE OF REINFORCING STEEL WITH CONCRETE ANCHOR PLACEMENT DOES NOT OCCUR. IF REINFORCING STEEL IS ENCOUNTERED DURING DRILLING, ADJUST THE ANCHOR LOCATION IF POSSIBLE AND NOTIFY THE OWNER'S REPRESENTATIVE. ABANDONED HOLES SHALL BE FILLED WITH GROUT. ANCHORS SHALL BE SET WITHIN 3 INCHES OF THEIR SPECIFIED LOCATION, BUT AT LEAST 1 INCH FROM ABANDONED HOLE. CARE SHALL BE TAKEN NOT TO BREAK OR DAMAGE REINFORCING STEEL DURING DRILLING, UNLESS OTHERWISE DIRECTED BY THE OWNER'S REPRESENTATIVE.

TEST 100% OF ANCHORS EXCEPT ONLY 10% NEED TO BE TESTED FOR SILL PLATE BOLTING APPLICATIONS. NON-STRUCTURAL APPLICATIONS SUCH AS EQUIPMENT ANCHORAGE, 50% OR ALTERNATE BOLTS IN A GROUP, INCLUDING AT LEAST ONE-HALF THE ANCHORS IN EACH GROUP, SHALL BE TESTED. TESTS SHALL BE IN THE PRESENCE OF THE OWNER'S PROJECT INSPECTOR OR TESTING LABORATORY AND THE TEST RESULTS SUBMITTED TO THE PROJECT ENGINEER. TEST REQUIREMENTS FOR EXPANSION ANCHORS USED IN METAL SUSPENSION SYSTEMS FOR LAY IN PANEL CEILINGS SHALL BE IN ACCORDANCE WITH THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. TEST VALUES LISTED ARE FOR A TORQUE WRENCH TEST. THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN ONE-HALF TURN OF THE NUT. ALTERNATELY EXPANSION ANCHORS MAY BE PULL TESTED TO TWICE THE ALLOWABLE TENSION VALUES SHOWN.

IN THE EVENT OF ANY TEST FAILURE, TEST ALL ANCHORS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY CONSECUTIVE PASS. THEN RESUME INITIAL TESTING FREQUENCY. PATCH ALL HOLES WHERE FASTENERS ARE REMOVED USING GROUT, PACKED SOLIDLY.

ADDITIONAL TESTING NOTES:

1. APPLY PROOF TEST LOADS TO WEDGE ANCHORS WITHOUT REMOVING THE NUT IF POSSIBLE. IF NOT, REMOVE NUT AND INSTALL A THREADED COUPLER TO THE SAME TIGHTNESS AS THE ORIGINAL NUT USING A TORQUE WRENCH & APPLY LOAD.
2. REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITH-DRAWING BY THE FIXTURES(S).
3. TEST EQUIPMENT (INCLUDING TORQUE WRENCHES) IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.
4. THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:

   HYDRAULIC RAM METHOD: ANCHORS TESTED WITH A HYDRAULIC JACK OR SPRING LOADED DEVICES SHALL MAINTAIN THE TEST LOAD FOR A MINIMUM OF 15 SECONDS AND SHALL EXHIBIT NO DISCERNABLE MOVEMENT DURING THE TENSION TEST, E.G., AS EVIDENCE BY LOOSENING OF THE WASHER UNDER THE NUT.

   TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS; ONE-HALF (1/2) TURN OF THE NUT.

EXPANSION ANCHOR NOTES:

TENSION AND SHEAR VALUES ARE BASED ON ICC REPORTS ESR-4266 FOR HILTI AND ESR-3037 FOR SIMPSON WITH SEISMIC APPLICATIONS MODIFIED FOR f'_c = 3,000 PSI CONCRETE, UNLESS NOTED OTHERWISE. FOR ALLOWABLE STRESS, THE VALUES ARE DIVIDED BY 1.4, AND ADDITIONALLY REDUCED BY 0.75 PER THE ACI 318-19 SECTION D.17.2.3.4.4. ALL VALUES IN THE TABLE REFLECT ALLOWABLE STRENGTHS WITH 20% STRESS INCREASE FOR LOAD COMBINATIONS WITH OVERSTRENGTH FACTOR IN ACCORDANCE WITH ASCE 7-16 SECTION 12.4.3.3.

HILTI KWIK BOLT TZ2 (TABLE 1A)

BOLT DIAMETER d_a (INCHES)	MIN MEMBER THICKNESS h_{min} (INCHES)	NOMINAL EMBEDMENT DEPTH h_{nom} (INCHES)	MIN HOLE DEPTH h_o (INCHES)	MIN EDGE DISTANCE[1] C_{ac} (INCHES)	ALLOWABLE SEISMIC TENSION[2] (LBS)	ALLOWABLE SEISMIC SHEAR[2] (LBS)	TORQUE TEST T_{inst} (FT-LBS)
3/8	4	2 5/16	2 5/8	4 3/8	1039	1098	30
1/2	4	2 3/8	2 5/8	5 1/2	1100	1342	50
	6	3 5/8	4	7 1/2	2250	2591	
5/8	5	3 9/16	3 3/4	6 1/2	2149	2132	40
	6	4 7/16	4 3/4	8 3/4	3113	3119	
3/4	6	4 5/16	4 1/2	10	2825	3477	110
	8	5 9/16	5 3/4	9	4028	4611	

SIMPSON STRONG-BOLT 2 (TABLE 1B)

BOLT DIAMETER d_a (INCHES)	MIN MEMBER THICKNESS h_{min} (INCHES)	NOMINAL EMBEDMENT DEPTH h_{nom} (INCHES)	MIN HOLE DEPTH h_{hole} (INCHES)	MIN EDGE DISTANCE[1] C_{ac} (INCHES)	ALLOWABLE SEISMIC TENSION[2] (LBS)	ALLOWABLE SEISMIC SHEAR[2] (LBS)	TORQUE TEST T_{inst} (FT-LBS)
3/8	3 1/4	1 7/8	2	6 1/2	595	1003	30
	4 1/2	2 7/8	3	6	1270	1003	
1/2	4 1/2	2 3/4	3	6 1/2	1313	1681	60
	6	3 7/8	4 1/8	7 1/2	1710	2611	
5/8	5 1/2	3 3/8	3 5/8	7 1/2	1774	2456	90
	7 7/8	5 1/8	5 3/8	9	3156	4251	
3/4	6 3/4	4 1/8	4 3/8	9	2412	3633	150
	8 3/4	5 3/4	6	8	3891	2804	

ADDITIONAL TABLE 1 NOTES:

1. VALUES ARE FOR SINGLE ANCHORS WITH NO SPACING REDUCTION. ALLOWABLE SEISMIC SHEAR VALUES USE THE EDGE DISTANCE NOTED TO CHECK CONCRETE BREAKOUT STRENGTH FORCE. FOR PARALLEL TO EDGE SHEAR LOADS, THE VALUE LISTED MAY BE TWICE THE NOTED VALUE, BUT MUST BE CHECKED NOT TO EXCEED THE ICC REPORT VALUE BASED ON THE STEEL STRENGTH CAPACITY.
2. VALUES ARE FOR NORMAL WEIGHT CONCRETE (f'c=3000 PSI). FOR SAND-LIGHTWEIGHT CONCRETE MULTIPLY TENSION VALUES BY 0.60

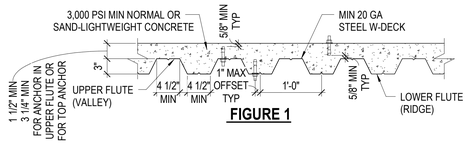


FIGURE 1

INSTALLATION IN SOFFIT OF CONCRETE OVER METAL DECK (SEE FIGURE 1)

HILTI KWIK BOLT TZ2 (TABLE 2A)

BOLT DIAMETER d_a (INCHES)	NOMINAL EMBEDMENT DEPTH h_{nom} (INCHES)	MIN HOLE DEPTH h_o (INCHES)	ALLOWABLE SEISMIC TENSION (LBS)	ALLOWABLE SEISMIC SHEAR (LBS)	TORQUE TEST T_{inst} (FT-LBS)
3/8	2 5/16	2 5/8	610	747	30
1/2	2 3/8	2 5/8	610	1671	50
	3 5/8	4	1095	2755	
5/8	3 9/16	3 3/4	836	2407	40
	4 7/16	4 3/4	1941	3162	

SIMPSON STRONG-BOLT 2 (TABLE 2B)

BOLT DIAMETER d_a (INCHES)	NOMINAL EMBEDMENT DEPTH h_{nom} (INCHES)	MIN HOLE DEPTH h_o (INCHES)	ALLOWABLE SEISMIC TENSION (LBS)	ALLOWABLE SEISMIC SHEAR (LBS)	TORQUE TEST T_{inst} (FT-LBS)
3/8	2	2 1/8	435	889	30
	3 3/8	3 1/2	1093	1944	
1/2	2 3/4	3	852	1070	60
	4 1/2	4 3/4	1141	2295	
5/8	3 3/8	3 5/8	1093	1323	90
	5 5/8	5 7/8	2085	3510	

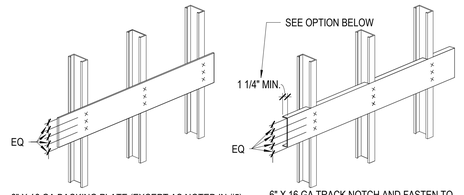
INSTALLATION IN TOP OF CONCRETE OVER METAL DECK (SEE FIGURE 1)

HILTI KWIK BOLT TZ2 OR SIMSPON SRONG -BOLT2 (TABLE 3)

BOLT DIAMETER d_a (INCHES)	NOMINAL EMBEDMENT DEPTH h_{nom} (INCHES)	MIN HOLE DEPTH h_o (INCHES)	MIN EDGE DISTANCE C_{ac} (LBS)	ALLOWABLE SEISMIC TENSION (LBS)	ALLOWABLE SEISMIC SHEAR (LBS)	TORQUE TEST T_{inst} (FT-LBS)
3/8	2 5/16	2 5/8	9	624	768	30
1/2	2 3/8	2 5/8	9	660	837	50

ADDITIONAL TABLE 3 NOTES:

1. FOR CONCRETE THICKNESSES OVER THE UPPER FLUTE THAT ARE GREATER THAN THE MINIMUM MEMBER THICKNESS USE ANCHOR VALUES FOR A STANDARD SLAB APPLICATION, SEE TABLE 1



6" X 16 GA BACKING PLATE (EXCEPT AS NOTED IN #5). FASTEN TO STUDS W/(3) #10 X 3/4" WAFER HEAD SELF DRILLING SCREWS PER STUD. ALL BACKING TO SPAN MIN OF (3) STUDS. BACKING PLATE TO BE Fy=50KSI

A PLATE BACKING: USE FOR FOLLOWING ITEMS

1. FLOOR MOUNTED BASE CABINETS.
2. WALL MOUNTED DISPENSERS AND HARDWARE WEIGHTING LESS THAN 20 LBS.
3. BACKING AT THE BOTTOM OF WALL HUNG CABINETS LESS THAN 15" IN DEPTH.

6" X 16 GA TRACK NOTCH AND FASTEN TO STUDS W/(3) #10 X 3/4" WAFER HEAD SELF DRILLING SCREWS PER STUD. ALL BACKING TO SPAN MIN OF (3) STUDS. BACKING TRACKS TO BE Fy=50KSI STEEL

B TRACK BACKING: USE FOR FOLLOWING ITEMS

1. HANDRAILS AND GRAB BARS (UP TO 250#)
2. FLOOR MOUNTED CABINETS GREATER THAN 3' -0" IN HEIGHT.
3. WALL HUNG CABINETS GREATER THAN 15" IN DEPTH AND AT THE TOP OF WALL HUNG CABINETS LESS THAN 15" IN DEPTH.

1 BACKING TYPES
3" = 1'-0"

UC DAVIS HEALTH BUILDING DEPARTMENT
APPROVED
REVIEWED FOR CODE COMPLIANCE
The set of plans and specifications must be kept on the job site at all times and it is unlawful to make any changes or alterations to the approved set without written permission from the Building Department.
The approval of this plan and specifications SHALL NOT be held to permit or approve the violation of any University Policy or State Building Code.
BY: Paul R Menard AIA, CBO DATE: 1/10/2024
PROJECT #: UCDH-2023-0230
UC Davis Health
Sacramento, CA 95817
BUILDING OFFICIAL:

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
CAMPUS FIRE MARSHAL:

LICENSED ARCHITECT
COURTNEY MCLEOD-GAINES
C-32210
REN. 5-31-25
STATE OF CALIFORNIA
PROFESSIONAL OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE, SUITE 3010
SACRAMENTO, CALIFORNIA 95817
(916)734-7024

HGA
1200 R Street, Suite 100
Sacramento, California 95811
Telephone 916.787.5100
CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
R1	RESUBMITTAL 01	10/27/2023

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

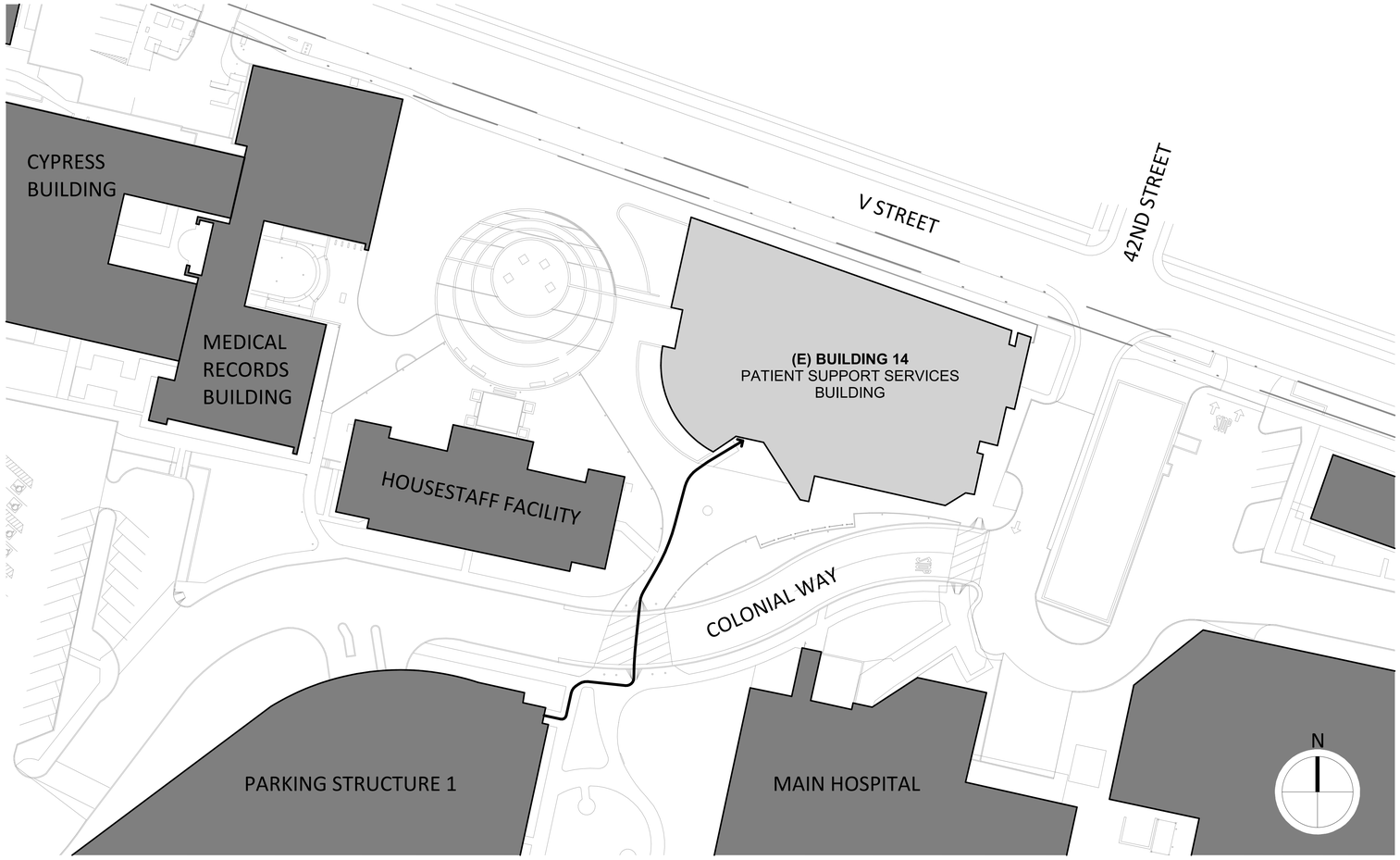
4150 V ST,
SACRAMENTO, CA 95817

ACCOUNT NO: AC 9559630
BUILDING: PATIENT SUPPORT SERVICES BUILDING (PSSB) BLDG # 14
FLOORING:
PROJECT TITLE: PSSB NETV2 UPGRADE
SHEET TITLE: POST INSTALLED ANCHOR GENERAL NOTES AND GENERAL DETAILS

ARCH. / ENGR.	FD&C JOB NO.	
HGA	9559630	G012
UCDMC PROJECT MANAGER: KEN PICKETT	SCALE: AS SHOWN	
DESIGNED BY	DATE: OCT. 27, 2023	
DRAWN BY	HGA COMMISSION NO.: 1500-159-01	SHEET / OF

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1 SITE PLAN
1" = 30'-0"

SITE PLAN LEGEND

SEE A010 FOR ALL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS

ACCESSIBLE PATH OF TRAVEL

UC DAVIS HEALTH BUILDING DEPARTMENT

APPROVED

REVIEWED FOR CODE COMPLIANCE

The set of plans and specifications must be kept on the job site at all times and it is unlawful to make any changes or alterations to the approved set without written permission from the Building Department.
The approval of this plan and specifications SHALL NOT be held to permit or approve the violation of any University Policy or State Building Code.

BY: Paul R Menard AIA, CSO DATE: 1/10/2024

PROJECT #: UCDH-2023-0230

UC Davis Health
Sacramento, CA 95817

BUILDING OFFICIAL:

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY

Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

CAMPUS FIRE MARSHAL:

LICENSED ARCHITECT
COURTNEY MCLEOD-GREEN
C-32210
REN. 5-31-25
STATE OF CALIFORNIA

PROFESSIONAL OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE, SUITE 3010
SACRAMENTO, CALIFORNIA 95817
(916)734-7024

HGA
1200 R Street, Suite 100
Sacramento, California 95811
Telephone 916.787.5100

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

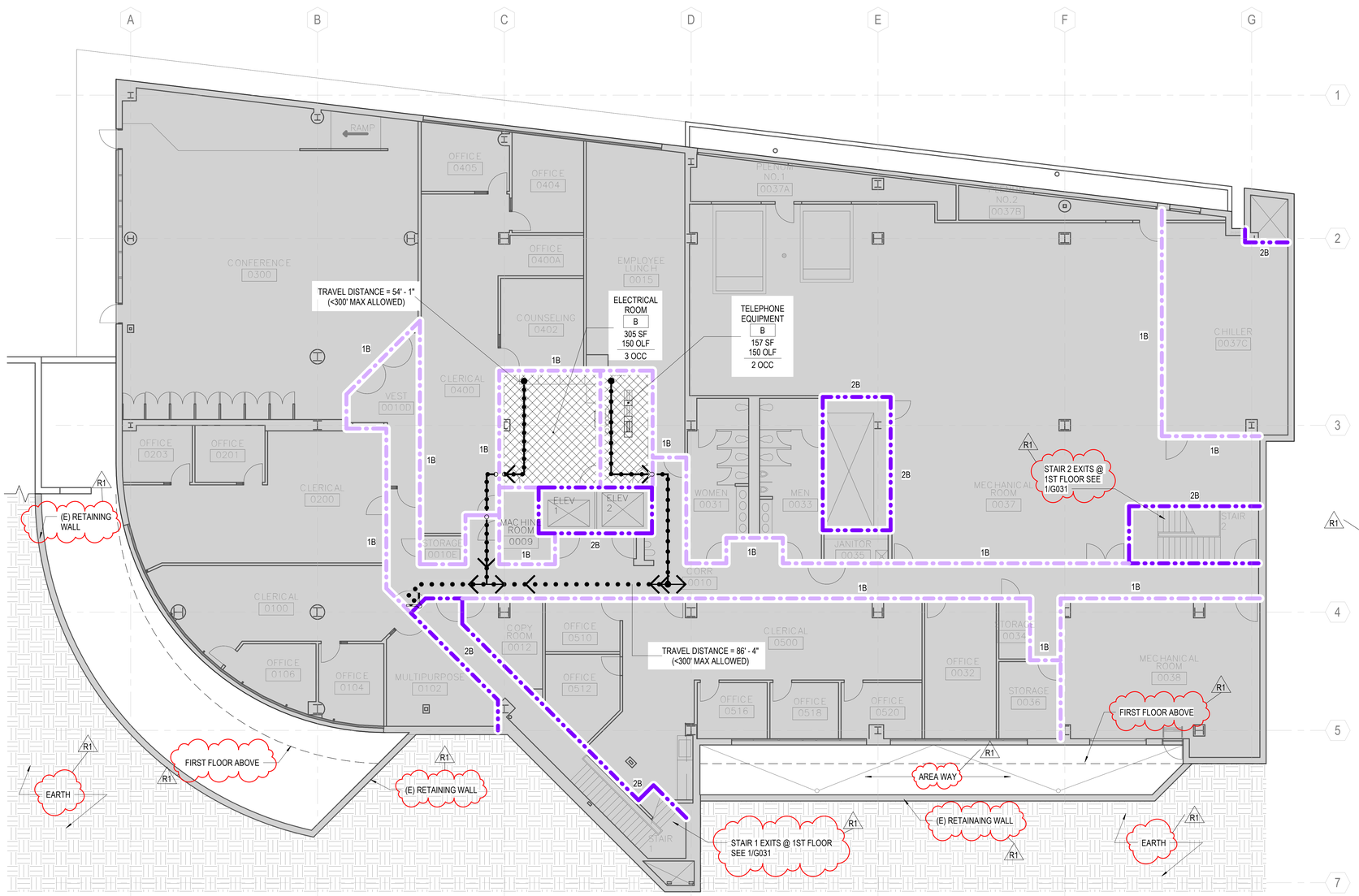
4150 V ST,
SACRAMENTO, CA 95817

ACCOUNT NO.: AC 9559630
BUILDING: PATIENT SUPPORT SERVICES BUILDING (PSSB) BLDG # 14
FLOOR/WING:
PROJECT TITLE: PSSB NETV2 UPGRADE
SHEET TITLE: ARCHITECTURAL SITE PLANS AND DETAILS

ARCH. / ENGR.: HGA	FD&C JOB NO.: 9559630		G020
UCDMC PROJECT MANAGER: KEN PICKETT	SCALE: AS SHOWN		
DESIGNED BY	DATE: JUNE 16, 2023		
DRAWN BY	HGA COMMISSION NO.: 1500-159-01	SHEET	OF

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1 LIFE SAFETY PLAN - LOWER LEVEL
1/8" = 1'-0"

LIFE SAFETY PLAN SYMBOL DESIGNATIONS

(SYMBOLS ONLY- SEE LIFE SAFETY PLANS FOR ACTUAL INFORMATION)

- 1A — BUILDING CODE OCCUPANCY TYPE
- B OCC OCC / TYPE IA — LIFE SAFETY CODE OCCUPANCY TYPE / LIFE SAFETY CODE CONSTRUCTION TYPE
- OFFICE — PRIMARY USE
- B — OCCUPANCY GROUP
- 1,000 SF — TOTAL SQUARE FEET
- 150 OLF — OCCUPANT LOAD FACTOR
- 15 OCC — OCCUPANT LOAD
- EXIT/STAIR — EXIT-ACCESS COMPONENT (E.G., STAIR, EXIT)
- 100 OCC — NUMBER OF OCCUPANTS USING EXIT-ACCESS COMPONENT
- 0.2" ECF — EGRESS CAPCITY FACTOR
- 32" MIN — MINIMUM REQUIRED CLEAR WIDTH (INCHES)
- 34" CLR — AVAILABLE CLEAR WIDTH (INCHES)
- TRAVEL DISTANCE TO NEAREST EXIT
- COMMON PATH OF TRAVEL OR EXIT ACCESS TRAVEL DISTANCE
- (E) CONSTRUCTION TO REMAIN
- EXISTING AREA, NOT IN CONTRACT
- AREA OF WORK

SEE G010 FOR ALL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS

REQUIRED ASSEMBLY RATING

	ASSEMBLY TYPE	
1	(E) ONE HOUR FIRE BARRIER	B
2	(E) TWO HOUR FIRE BARRIER	B

CODE REVIEW - OCCUPANCY

FUNCTION OF SPACE / OCCUPANCY GROUP	PRIMARY USE	OCCUPANT LOAD FACTOR (PER SF)	AREA (SF)	OCCUPANT LOAD
LOWER LEVEL				
BUSINESS				
B	ELECTRICAL ROOM	150	305 SF	3
B	TELEPHONE EQUIPMENT	150	157 SF	2
			462 SF	5
GRAND TOTAL			462 SF	5

CODE REVIEW - EXIT ACCESS

DESCRIPTION	DISTANCE REQUIRED	DISTANCE PROVIDED
LOWER LEVEL		
EXIT ACCESS		
COMMON PATH OF TRAVEL	(<100' MAX ALLOWED)	38' - 7"
COMMON PATH OF TRAVEL	(<100' MAX ALLOWED)	41' - 9"
TRAVEL DISTANCE	(<300' MAX ALLOWED)	54' - 1"
TRAVEL DISTANCE	(<300' MAX ALLOWED)	86' - 4"

UC DAVIS HEALTH BUILDING DEPARTMENT
APPROVED
REVIEWED FOR CODE COMPLIANCE
The set of plans and specifications must be kept on the job site at all times and it is unlawful to make any changes or alterations to the approved set without written permission from the Building Department.
The approval of this plan and specifications SHALL NOT be held to permit or approve the violation of any University Policy or State Building Code.
BY: Paul R Menard AIA, CBO DATE: 1/10/2024
PROJECT #: UCDH-2023-0230
UC Davis Health
Sacramento, CA 95817
BUILDING OFFICIAL:

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
CAMPUS FIRE MARSHAL:

LICENSED ARCHITECT
COURTNEY MCLEOD-GREEN
C-32210
REN. 5-31-25
STATE OF CALIFORNIA
PROFESSIONAL OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE, SUITE 3010
SACRAMENTO, CALIFORNIA 95817
(916)734-7024

HGA
1200 R Street, Suite 100
Sacramento, California 95811
Telephone 916.787.5100
CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
R1	RESUBMITTAL 01	10/27/2023

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

4150 V ST,
SACRAMENTO, CA 95817

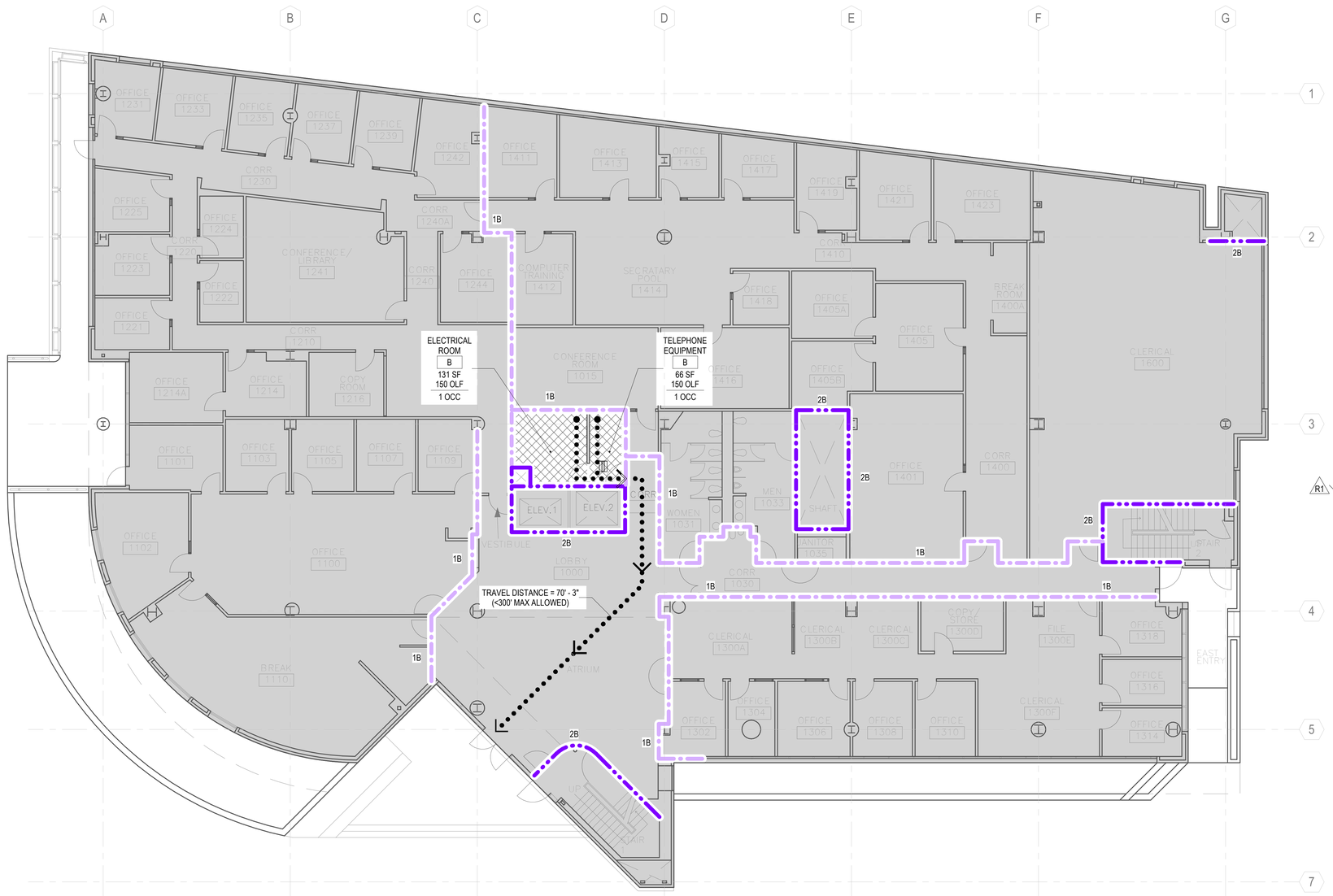
KEYPLAN

ACCOUNT NO.: AC 9559630
BLD./DWNG.: PATIENT SUPPORT SERVICES BUILDING (PSSB) BLDG # 14
PROJECT TITLE: PSSB NETV2 UPGRADE
SHEET TITLE: LIFE SAFETY PLAN - LOWER LEVEL

ARCH. / ENGR.: HGA	FD&C JOB NO.: 9559630		
UCDMC PROJECT MANAGER: KEN PICKETT	SCALE: AS SHOWN	G030	
DESIGNED BY	DATE: OCT. 27, 2023		
DRAWN BY	HGA COMMISSION NO.: 1500-159-01	SHEET	OF

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1 LIFE SAFETY PLAN - LEVEL 01
1/8" = 1'-0"

LIFE SAFETY PLAN SYMBOL DESIGNATIONS

(SYMBOLS ONLY- SEE LIFE SAFETY PLANS FOR ACTUAL INFORMATION)

- 1A — BUILDING CODE OCCUPANCY TYPE
- B OCC OCC / TYPE IA — LIFE SAFETY CODE OCCUPANCY TYPE / LIFE SAFETY CODE CONSTRUCTION TYPE
- OFFICE — PRIMARY USE
- B — OCCUPANCY GROUP
- 1,000 SF — TOTAL SQUARE FEET
- 150 OLF — OCCUPANT LOAD FACTOR
- 15 OCC — OCCUPANT LOAD
- EXIT/STAIR — EXIT-ACCESS COMPONENT (E.G., STAIR, EXIT)
- 100 OCC — NUMBER OF OCCUPANTS USING EXIT-ACCESS COMPONENT
- 0.2" ECF — EGRESS CAPCITY FACTOR
- 32" MIN — MINIMUM REQUIRED CLEAR WIDTH (INCHES)
- 34" CLR — AVAILABLE CLEAR WIDTH (INCHES)
- TRAVEL DISTANCE TO NEAREST EXIT
- COMMON PATH OF TRAVEL OR EXIT ACCESS TRAVEL DISTANCE
- (E) CONSTRUCTION TO REMAIN
- EXISTING AREA, NOT IN CONTRACT
- AREA OF WORK

SEE G010 FOR ALL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS

REQUIRED ASSEMBLY RATING

	ASSEMBLY TYPE	
1	(E) ONE HOUR FIRE BARRIER	B
2	(E) TWO HOUR FIRE BARRIER	B

CODE REVIEW - OCCUPANCY

FUNCTION OF SPACE / OCCUPANCY GROUP	PRIMARY USE	OCCUPANT LOAD FACTOR (PER SF)	AREA (SF)	OCCUPANT LOAD
LEVEL 01				
BUSINESS				
B	ELECTRICAL ROOM	150	131 SF	1
B	TELEPHONE EQUIPMENT	150	66 SF	1
			196 SF	2
GRAND TOTAL			196 SF	2

CODE REVIEW - EXIT ACCESS

DESCRIPTION	DISTANCE REQUIRED	DISTANCE PROVIDED
LEVEL 01		
EXIT ACCESS		
TRAVEL DISTANCE	(<300' MAX ALLOWED)	66' - 11"
TRAVEL DISTANCE	(<300' MAX ALLOWED)	70' - 3"

UC DAVIS HEALTH BUILDING DEPARTMENT
APPROVED
REVIEWED FOR CODE COMPLIANCE
The set of plans and specifications must be kept on the job site at all times and it is unlawful to make any changes or alterations to the approved set without written permission from the Building Department.
The approval of this plan and specifications SHALL NOT be held to permit or approve the violation of any University Policy or State Building Code.
BY: Paul R Menard AIA, CBO DATE: 1/10/2024
PROJECT #: UCDH-2023-0230
UC Davis Health
Sacramento, CA 95817
BUILDING OFFICIAL:

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
CAMPUS FIRE MARSHAL:

LICENSED ARCHITECT
COURTNEY MCLEOD-GLAVEN
C-32210
REN. 5-31-25
STATE OF CALIFORNIA
PROFESSIONAL OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE, SUITE 3010
SACRAMENTO, CALIFORNIA 95817
(916)734-7024

HGA
1200 R Street, Suite 100
Sacramento, California 95811
Telephone 916.787.5100
CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
R1	RESUBMITTAL 01	10/27/2023

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

4150 V ST,
SACRAMENTO, CA 95817

KEYPLAN

ACCOUNT NO: AC 9559630
BUILDING: PATIENT SUPPORT SERVICES BUILDING (PSSB) BLDG # 14
FLOOR/WING:
PROJECT TITLE: PSSB NETV2 UPGRADE
SHEET TITLE: LIFE SAFETY PLAN - LEVEL 01

ARCH. / ENGR. HGA	FD&C JOB NO. 9559630		G031
UCDMC PROJECT MANAGER KEN PICKETT	SCALE AS SHOWN		
DESIGNED BY	DATE OCT. 27, 2023		
DRAWN BY	HGA COMMISSION NO. 1500-159-01	SHEET	OF

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1 LIFE SAFETY PLAN - LEVEL 02
1/8" = 1'-0"

LIFE SAFETY PLAN SYMBOL DESIGNATIONS

(SYMBOLS ONLY- SEE LIFE SAFETY PLANS FOR ACTUAL INFORMATION)

- 1A — BUILDING CODE OCCUPANCY TYPE
- B OCC OCC / TYPE IA — LIFE SAFETY CODE OCCUPANCY TYPE / LIFE SAFETY CODE CONSTRUCTION TYPE
- OFFICE — PRIMARY USE
- B — OCCUPANCY GROUP
- 1,000 SF — TOTAL SQUARE FEET
- 150 OLF — OCCUPANT LOAD FACTOR
- 15 OCC — OCCUPANT LOAD
- EXIT/STAIR — EXIT-ACCESS COMPONENT (E.G., STAIR, EXIT)
- 100 OCC — NUMBER OF OCCUPANTS USING EXIT-ACCESS COMPONENT
- 0.2" ECF — EGRESS CAPCITY FACTOR
- 32" MIN — MINIMUM REQUIRED CLEAR WIDTH (INCHES)
- 34" CLR — AVAILABLE CLEAR WIDTH (INCHES)
- TRAVEL DISTANCE TO NEAREST EXIT
- COMMON PATH OF TRAVEL OR EXIT ACCESS TRAVEL DISTANCE
- (E) CONSTRUCTION TO REMAIN
- EXISTING AREA, NOT IN CONTRACT
- AREA OF WORK

R1 SEE G010 FOR ALL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS

REQUIRED ASSEMBLY RATING

ASSEMBLY TYPE		
1	(E) ONE HOUR FIRE BARRIER	B
2	(E) TWO HOUR FIRE BARRIER	B

CODE REVIEW - OCCUPANCY

FUNCTION OF SPACE / OCCUPANCY GROUP	PRIMARY USE	OCCUPANT LOAD FACTOR (PER SF)	AREA (SF)	OCCUPANT LOAD
LEVEL 02				
BUSINESS				
B	ELECTRICAL ROOM	150	130 SF	1
B	TELEPHONE EQUIPMENT	150	64 SF	1
			194 SF	2
GRAND TOTAL			194 SF	2

CODE REVIEW - EXIT ACCESS

DESCRIPTION	DISTANCE REQUIRED	DISTANCE PROVIDED
LEVEL 02		
EXIT ACCESS		
TRAVEL DISTANCE	(<300' MAX ALLOWED)	101' - 11"
TRAVEL DISTANCE	(<300' MAX ALLOWED)	107' - 9"

R1

UC DAVIS HEALTH BUILDING DEPARTMENT
APPROVED
REVIEWED FOR CODE COMPLIANCE
The set of plans and specifications must be kept on the job site at all times and it is unlawful to make any changes or alterations to the approved set without written permission from the Building Department.
The approval of this plan and specifications SHALL NOT be held to permit or approve the violation of any University Policy or State Building Code.
BY: Paul R Menard AIA, CBO DATE: 1/10/2024
PROJECT #: UCDH-2023-0230
UC Davis Health
Sacramento, CA 95817
BUILDING OFFICIAL:

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
CAMPUS FIRE MARSHAL:

LICENSED ARCHITECT
COURTNEY MCLEOD-GREEN
C-32210
REN. 5-31-25
STATE OF CALIFORNIA
PROFESSIONAL OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE, SUITE 3010
SACRAMENTO, CALIFORNIA 95817
(916)734-7024

HGA
1200 R Street, Suite 100
Sacramento, California 95811
Telephone 916.787.5100
CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
R1	RESUBMITTAL 01	10/27/2023

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

4150 V ST,
SACRAMENTO, CA 95817

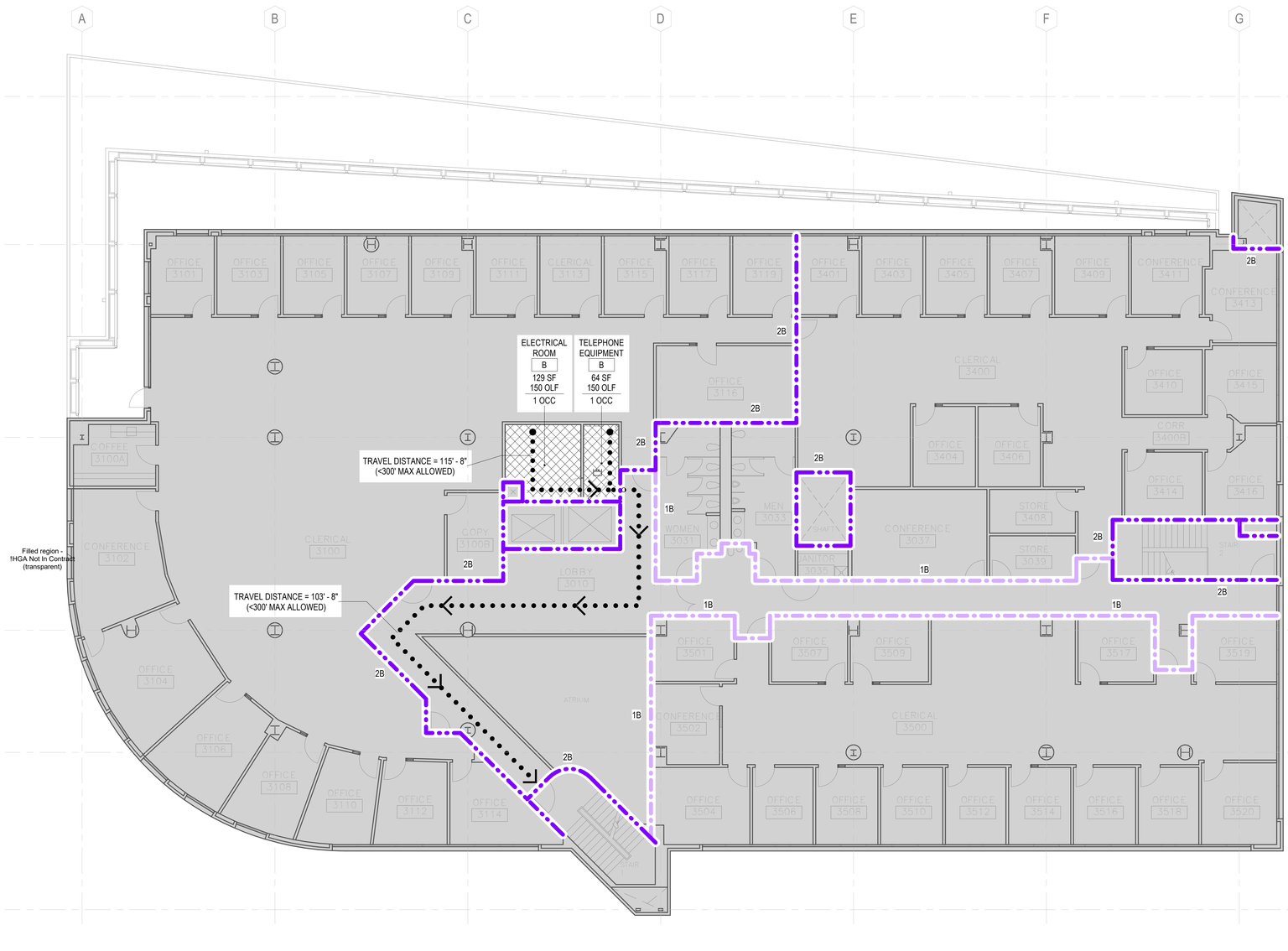
KEYPLAN

ACCOUNT NO: AC 9559630
BUILDING: PATIENT SUPPORT SERVICES BUILDING (PSSB) BLDG # 14
FLOOR/WING:
PROJECT TITLE: PSSB NETV2 UPGRADE
SHEET TITLE: LIFE SAFETY PLAN - LEVEL 02

ARCH. / ENGR.	FD&C JOB NO.	
HGA	9559630	G032
UCDMC PROJECT MANAGER: KEN PICKETT	SCALE: AS SHOWN	
DESIGNED BY	DATE: OCT. 27, 2023	
DRAWN BY	HGA COMMISSION NO.: 1500-159-01	SHEET / OF

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1 LIFE SAFETY PLAN - LEVEL 03
1/8" = 1'-0"

LIFE SAFETY PLAN SYMBOL DESIGNATIONS

(SYMBOLS ONLY- SEE LIFE SAFETY PLANS FOR ACTUAL INFORMATION)

1A — BUILDING CODE OCCUPANCY TYPE

B OCC OCC / TYPE IA — LIFE SAFETY CODE OCCUPANCY TYPE / LIFE SAFETY CODE CONSTRUCTION TYPE

OFFICE — PRIMARY USE
B — OCCUPANCY GROUP
1,000 SF — TOTAL SQUARE FEET
150 OLF — OCCUPANT LOAD FACTOR
15 OCC — OCCUPANT LOAD

EXIT/STAIR — EXIT-ACCESS COMPONENT (E.G., STAIR, EXIT)
100 OCC — NUMBER OF OCCUPANTS USING EXIT-ACCESS COMPONENT
0.2" ECF — EGRESS CAPCITY FACTOR
32" MIN — MINIMUM REQUIRED CLEAR WIDTH (INCHES)
34" CLR — AVAILABLE CLEAR WIDTH (INCHES)

TRAVEL DISTANCE TO NEAREST EXIT

COMMON PATH OF TRAVEL OR EXIT ACCESS TRAVEL DISTANCE

(E) CONSTRUCTION TO REMAIN

EXISTING AREA, NOT IN CONTRACT

AREA OF WORK

SEE G010 FOR ALL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS

REQUIRED ASSEMBLY RATING

	ASSEMBLY TYPE	
1	(E) ONE HOUR FIRE BARRIER	B
2	(E) TWO HOUR FIRE BARRIER	B

CODE REVIEW - OCCUPANCY

FUNCTION OF SPACE / OCCUPANCY GROUP	PRIMARY USE	OCCUPANT LOAD FACTOR (PER SF)	AREA (SF)	OCCUPANT LOAD
LEVEL 03				
BUSINESS				
B	ELECTRICAL ROOM	150	129 SF	1
B	TELEPHONE EQUIPMENT	150	64 SF	1
			194 SF	2
GRAND TOTAL			194 SF	2

CODE REVIEW - EXIT ACCESS

DESCRIPTION	DISTANCE REQUIRED	DISTANCE PROVIDED
LEVEL 03		
EXIT ACCESS		
TRAVEL DISTANCE	(<300' MAX ALLOWED)	103' - 8"
TRAVEL DISTANCE	(<300' MAX ALLOWED)	115' - 8"

UC DAVIS HEALTH BUILDING DEPARTMENT
APPROVED
REVIEWED FOR CODE COMPLIANCE
The set of plans and specifications must be kept on the job site at all times and it is unlawful to make any changes or alterations to the approved set without written permission from the Building Department.
The approval of this plan and specifications SHALL NOT be held to permit or approve the violation of any University Policy or State Building Code.
BY: Paul R Menard AIA, CBO DATE: 1/10/2024
PROJECT #: UCDH-2023-0230
UC Davis Health
Sacramento, CA 95817
BUILDING OFFICIAL:

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
CAMPUS FIRE MARSHAL:

LICENSED ARCHITECT
COURTNEY MCLEOD-GREEN
C-32210
REN. 5-31-25
STATE OF CALIFORNIA
PROFESSIONAL OF RECORD:

UC DAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE, SUITE 3010
SACRAMENTO, CALIFORNIA 95817
(916)734-7024

HGA
1200 R Street, Suite 100
Sacramento, California 95811
Telephone 916.787.5100
CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
R1	RESUBMITTAL 01	10/27/2023

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

4150 V ST,
SACRAMENTO, CA 95817

KEYPLAN

ACCOUNT NO.: AC 9559630
BUILDING: PATIENT SUPPORT SERVICES BUILDING (PSSB) BLDG # 14
FLOOR/WING:
PROJECT TITLE: PSSB NETV2 UPGRADE
SHEET TITLE: LIFE SAFETY PLAN - LEVEL 03

ARCH. / ENGR. HGA	PDAC JOB NO. 9559630		G033
UCDMC PROJECT MANAGER KEN PICKETT	SCALE AS SHOWN		
DESIGNED BY	DATE OCT. 27, 2023		
DRAWN BY	HGA COMMISSION NO. 1500-159-01	SHEET	OF

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2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2023)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

CHAPTER 3
GREEN BUILDING
SECTION 301 GENERAL

301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.

301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG] The provisions of individual sections of Chapter 5 apply to newly constructed buildings, additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of $200,000 or above (for occupancies within the authority of California Building Standards Commission). Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of the permitted work.

A code section will be designated by a banner to indicate where the code section only applies to newly constructed buildings [N] or to additions and/or alterations [A]. When the code section applies to both, no banner will be used.

301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only:

Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances. See Civil Code Section 1101.1 *et seq.* for definitions, types of commercial real property affected, effective dates, circumstances necessitating replacement of noncompliant plumbing fixtures, and duties and responsibilities for ensuring compliance.

301.3.2 Waste Diversion. The requirements of Section 5.408 shall be required for additions and alterations whenever a permit is required for work.

301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC)
301.5 HEALTH FACILITIES. (see GBSC)

SECTION 302 MIXED OCCUPANCY BUILDINGS

302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.

SECTION 303 PHASED PROJECTS

303.1 PHASED PROJECTS. For shell buildings and others constructed for future tenant improvements, only those code measures relevant to the building components and systems considered to be new construction (or newly constructed) shall apply.

303.1.1 Initial Tenant improvements. The provisions of this code shall apply only to the initial tenant improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions in Section 301.3 non-residential additions and alterations.

ABBREVIATION DEFINITIONS:

HCD	Department of Housing and Community Development
BSC	California Building Standards Commission
DSA-SS	Division of the State Architect, Structural Safety
OSHPD	Office of Statewide Health Planning and Development
LR	Low Rise
HR	High Rise
AA	Additions and Alterations
N	New

CHAPTER 5
NONRESIDENTIAL MANDATORY MEASURES
DIVISION 5.1 PLANNING AND DESIGN
SECTION 5.101 GENERAL

5.101.1 SCOPE
The provisions of this chapter outline planning, design and development methods that include environmentally responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties.

SECTION 5.102 DEFINITIONS

5.102.1 DEFINITIONS
The following terms are defined in Chapter 2 *(and are included here for reference)*

CUTOFF LUMINAIRES. Luminaires whose light distribution is such that the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of 80 degrees above nadir. This applies to all lateral angles around the luminaire.

LOW-EMITTING AND FUEL EFFICIENT VEHICLES.
Eligible vehicles are limited to the following:

1. Zero emission vehicle (ZEV), enhanced advanced technology PZEV (enhanced AT ZEV) or transitional zero emission vehicles (TZEV) regulated under CCR, Title 13, Section 1962.
2. High-efficiency vehicles, regulated by U.S. EPA, bearing a fuel economy and greenhouse gas rating od 9 oe 10 as regulated under 40 CFR Section 600 Subpart D.

NEIGHBORHOOD ELECTRIC VEHICLE (NEV). A motor vehicle that meets the definition of "low-speed vehicle" either in Section 385.5 of the Vehicle Code or in 49CFR571.500 (as it existed on July 1, 2000), and is certified to zero-emission vehicle standards.

TENANT-OCCUPANTS. Building occupants who inhabit a building during its normal hours of operation as permanent occupants, such as employees, as distinguished from customers and other transient visitors.

VANPOOL VEHICLE. Eligible vehicles are limited to any motor vehicle, other than a motortruck or truck tractor, designed for carrying more than 10 but not more than 15 persons including the driver, which is maintained and used primarily for the nonprofit work-related transportation of adults for the purpose of ridesharing.

Note: Source: Vehicle Code, Division 1, Section 668

ZEV. Any vehicle certified to zero-emission standards.

SECTION 5.106 SITE DEVELOPMENT

5.106.1 STORM WATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB LESS THAN ONE ACRE OF LAND. Newly constructed projects and additions which disturb less than one acre of land, and are not part of a larger common plan of development or sale, shall prevent the pollution of storm water runoff from the construction activities through one or more of the following measures:

5.106.1.1 Local ordinance. Comply with a lawfully enacted storm water management and/or erosion control ordinance.

5.106.1.2 Best Management Practices (BMPs). Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMPs.

1. Soil loss BMPs that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Scheduling construction activity during dry weather, when possible.
   b. Preservation of natural features, vegetation, soil, and buffers around surface waters.
   c. Drainage swales or lined ditches to control stormwater flow.
   d. Mulching or hydroseeding to stabilize disturbed soils.
   e. Erosion control to protect slopes.
   f. Protection of storm drain inlets (gravel bags or catch basin inserts).
   g. Perimeter sediment control (perimeter silt fence, fiber rolls).
   h. Sediment trap or sediment basin to retain sediment on site.
   i. Stabilized construction exits.
   j. Wind erosion control.
   k. Other soil loss BMPs acceptable to the enforcing agency.
2. Good housekeeping BMPs to manage construction equipment, materials, non-stormwater discharges and wastes that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Dewatering activities.
   b. Material handling and waste management.
   c. Building materials stockpile management.
   d. Management of washout areas (concrete, paints, stucco, etc.).
   e. Control of vehicle/equipment fueling to contractor's staging area.
   f. Vehicle and equipment cleaning performed off site.
   g. Spill prevention and control.
   h. Other housekeeping BMPs acceptable to the enforcing agency.

5.106.2 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES OF LAND. Comply with all lawfully enacted stormwater discharge regulations for projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development sale.

Note: Projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of the larger common plan of development or sale must comply with the post-construction requirements detailed in the applicable National Pollutant Discharge Elimination System (NPDES) General permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board or the Lahontan Regional Water Quality Control Board (for projects in the Lake Tahoe Hydrologic Unit).

The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff (pre-project hydrology) with the installation of postconstruction stormwater management measures. The NPDES permits emphasize runoff reduction through on-site stormwater use, interception, evapotranspiration, and infiltration through nonstructural controls, such as Low Impact Development (LID) practices, and conversation design measures. Stormwater volume that cannot be addressed using nonstructural practices is required to be captured in structural practices and be approved by the enforcing agency.

Refer to the current applicable permits on the State Water Resources Control Board website at: www.waterboards.ca.gov/constructionstormwater. Consideration to the stormwater runoff management measures should be given during the initial design process for appropriate integration into site development.

5.106.4 BICYCLE PARKING. For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State Architect pursuant to Section 105, comply with Section 5.106.4.2

5.106.4.1 Bicycle parking. [BSC-CG] Comply with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the applicable local ordinance, whichever is stricter.

5.106.4.1.1 Short-term bicycle parking. If the new project or an addition or alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack.
Exception: Additions or alterations which add nine or less visitor vehicular parking spaces.

5.106.4.1.2 Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

5.106.4.1.3 For additions or alterations that add 10 or more tenant-occupant vehicular parking spaces, provide secure bicycle parking for 5 percent of the tenant vehicular parking spaces being added, with a minimum of one bicycle parking facility.

5.106.4.1.4 For new shell buildings in phased projects provide secure bicycle parking for 5 percent of the anticipated tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

5.106.4.1.5 Acceptable bicycle parking facility for Sections 5.106.4.1.2, 5.106.4.1.3, and 5.106.4.1.4 shall be convenient from the street and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

Note: Additional information on recommended bicycle accommodations may be obtained from Sacramento Area Bicycle Advocates.

5.106.4.2 Bicycle parking. [DSA-SS] For public schools and community colleges, comply with Sections 5.106.4.2.1 and 5.106.4.2.2

5.106.4.2.1 Student bicycle parking. Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building.
5.106.4.2.2 Staff bicycle parking. Provide permanent, secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable bicycle parking facilities shall be convenient from the street or staff parking area and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

5.106.5.3 Electric vehicle (EV) charging. [N] Construction to provide electric vehicle infrastructure and facilitate electric vehicle charging shall comply with Section 5.106.5.3.1 and shall be provided in accordance with regulations in the California Building Code and the California Electrical Code.

Exceptions:
1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
   a. Where there is no local utility power supply
   b. Where the local utility is unable to supply adequate power.
   c. Where there is evidence suitable to the local enforcement agency substantiating the local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.
2. Parking spaces accessible only by automated mechanical car parking systems are not required to comply with this code section

5.106.5.3.1 EV capable spaces.
[N] EV capable spaces shall be provided in accordance with Table 5.106.5.3.1 and the following requirements:
1. Raceways complying with the California Electrical Code and no less that 1-inch (25 mm) diameter shall be provided and shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the EV capable and into a suitable listed cabinet, box,enclosure or equivalent. A common raceway may be used to serve multiple EV charging spaces.
2. A service panel or subpanel (s) shall be provided with panel space and electrical load capacity for a dedicated 208/240 volt, 40-ampere minimum branch circuit for each EV capable space, with delivery of 30-ampere minimum to an installed EVSE at each EVCS.
3. The electrical system and any on-site distribution transformers shall have sufficient capacity to supply full rated amperage at each EV capable space.
4. The service panel or subpanel circuit directory shall identify the reserved overcurrent protective devices space(s) as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE."

Note: A parking space served by electric vehicle supply equipment or designed as a future EV charging space shall count as at least one standard automobile parking space only for the purpose of complying with any applicable minimum parking space requirements established by an enforcement agency. See vehicle Code Section 22511.2 for further details.

TABLE 5.106.5.3.1

TOTAL NUMBER OF ACTUAL PARKING SPACES	NUMBER OF REQUIRED EV CAPABLE SPACES	NUMBER OF EVCS (EV CAPABLE SPACES PROVIDED WITH EVSE)^2
0-9	0	0
10-25	2	0
26-50	8	2
51-75	13	3
76-100	17	4
101-150	25	6
151-200	35	9
201 AND OVER	20% of total[1]	25% of EV capable spaces[1]

1. Where there is insufficient electrical supply.
2. The number of required EVCS (EV capable spaces provided with EVSE) in column 3 count towards the total number of required EV capable spaces shown in column 2.

5.106.5.3.2 Electric vehicle charging stations (EVCS)
EV capable spaces shall be provided with EVSE to create EVCS in the number indicated in Table 5.106.5.3.1. The EVCS required by Table 5.106.5.3.1 may be provided with EVSE in any combination of Level 2 and Direct Current Fast Charging (DCFC), except that at least one Level 2 EVSE shall be provided.

One EV charger with multiple connectors capable of charging multiple EVs simultaneously shall be permitted if the electrical load capacity required by Section 5.106.5.3.1 for each EV capable space is accumulatively supplied to the EV charger.

The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces without EVSE by five and reduce proportionally the required electrical load capacity to the service panel or subpanel.

5.106.5.3.3 Use of automatic load management systems (ALMS).
ALMS shall be permitted for EVCS. When ALMS is installed, the required electrical load capacity specified in Section
5.106.5.3.1 for each EVCS may be reduced when serviced by an EVSE controlled by an ALMS. Each EVSE controlled by an ALMS shall deliver a minimum 30 amperes to an EV when charging one vehicle and shall deliver a minimum 3.3 kW while simultaneously charging multiple EVs.

5.106.5.3.4 Accessible EVCS.
When EVSE is installed, accessible EVSC shall be provided in accordance with the *California Building Code*, Chapter 11B, Section 11B-228.3.
Note: For EVCS signs, refer to Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).

5.106.5.4 Electric Vehicle (EV) charging: medium-duty and heavy-duty. [N]
Construction shall comply with section 5.106.5.4.1 to facilitate future installation of electric vehicle supply equipment (EVSE). Construction for warehouses, grocery stores and retail stores with planned off-street loading spaces shall also comply with Section 5.106.5.4.1 for future installation of medium- and heavy-duty EVSE.
Exceptions:
1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
   a. Where there is no local utility power supply.
   b. Where the local utility is unable to supply adequate power.
   c. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.

When EVSE(s) is/are installed, it shall be in accordance with the *California Building Code*, the *California Electrical Code* and as follows:

5.106.5.4.1 Electric vehicle charging readiness requirements for warehouse, grocery stores and retail stores with planned off-street loading spaces.
[N] In order to avoid future demolition when adding EV charging supply and distribution equipment, spare raceways(s) or busway(s) and adequate capacity for transformers(s), service panels(s) or subpanel(s) shall be installed at the time of construction in accordance with the California Electrical Code. Construction plans and specifications shall include but are not limited to, the following:
1. The transformer, main service equipment and subpanel shall meet the minimum power requirement in Table 5.106.5.4.1 to accommodate the dedicated branch circuits for the future installation of EVSE.
2. The construction documents shall indicate on or more location(s) convenient to the planned offstreet loading space(s) reserved for medium-and heavy-duty ZEV charging cabinets and charging dispensers, and a pathway reserved for routing of conduit from the termination of the raceway(s) or busway(s) to the charging cabinet(s) and dispenser(s) as shown in Table 5.106.5.4.1
3. Raceway(s) or busway(s) originating at a main service panel or a subpanel(s) serving the area where potential future medium-and heavy-duty EVSE will be located and shall terminate in close proximity to the potential future location of the charging equipments for medium- and heavy-duty vehicles.
4. The raceway(s) or busway(s) shall be sufficient size to carry the minimum additional system load to the future location of the charging for medium- and heavy-duty ZEVs as shown in Table 5.106.5.4.1.

TABLE 5.106.5.4.1 RACEWAY CONDUIT AND PANEL POWER REQUIREMENTS FOR MEDIUM- AND HEAVY-DUTY EVSE [N]

BUILDING TYPE	BUILDING SIZE (SQ. FT.)	NUMBER OF OFF-STREET LOADING SPACES	ADDITIONAL CAPACITY REQUIRED (KVA) FOR RACEWAY & BUSWAY AND TRANSFORMER & PANEL
Grocery	10,000 to 90,000	1 or 2	200
		3 or Greater	400
	Greater than 90,000	1 or Greater	400
Retail	10,000 to 135,000	1 or 2	200
		3 or Greater	400
	Greater than 135,000	1 or Greater	400
Warehouse	20,000 to 256,000	1 or 2	200
		3 or Greater	400
	Greater than 256,000	1 or Greater	400

5.106.8 LIGHT POLLUTION REDUCTION. [N]. I Outdoor lighting systems shall be designed and installed to comply with the following:

1. The minimum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10, Section 10-114 of the California Administrative Code; and
2. Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8);
3. Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in Chapter 8) and
4. Allowable BUG ratings not exceeding those shown in Table 5.106.8. [N] or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

Exceptions: [N]

1. Luminaires that qualify as exceptions in Sections 130.2 (b) and 140.7 of the California Energy Code.
2. Emergency lighting.
3. Building facade meeting the requirements in Table 140.7-B of the California Energy Code, Part 6.
4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of construction.
5. Luminaires with less than 6,200 initial luminaire lumens.

TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS [1,2]

ALLOWABLE RATING	LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ4
MAXIMUM ALLOWABLE BACKLIGHT RATING					
Luminaire greater than 2 mounting heights (MH) from property line	N/A	No Limit	No Limit	No Limit	No Limit
Luminaire back hemisphere is 1-2 MH from property line	N/A	B2	B3	B4	B4
Luminaire back hemisphere is 0.5-1 MH from property line	N/A	B1	B2	B3	B3
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	B0	B0	B1	B2
MAXIMUM ALLOWABLE UPLIGHT RATING (U)					
For area lighting [3]	N/A	U0	U0	U0	U0
For all other outdoor lighting,including decorative luminaires	N/A	U1	U2	U3	UR
MAXIMUM ALLOWABLE GLARE RATING [4] (G)					
MAXIMUM ALLOWABLE GLARE RATING [4] (G)	N/A	G1	G2	G3	G4
MAXIMUM ALLOWABLE GLARE RATING [4] (G)	N/A	G0	G1	G1	G2
MAXIMUM ALLOWABLE GLARE RATING [4] (G)	N/A	G0	G0	G1	G1
MAXIMUM ALLOWABLE GLARE RATING [4] (G)	N/A	G0	G0	G0	G1

1. IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the *California Energy Code* and Chapter 10 of the *California Administrative Code.*

2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property line may be considered to be 5 feet beyond the actual property line for purpose of determining compliance with this section. For property lines that abut public roadways and public transit corridors, the property line may be considered to be the centerline of the public roadway or public transit corridor for the purpose of determining compliance with this section.

3. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet these reduced ratings. Decorative luminaries located in these areas shall meet *U*-value limits for "all other outdoor lighting"

5.106.8.1 Facing- Backlight
Luminaries within 2MH of a property line shall be oriented so that the nearest property line is behind the fixture, and shall comply with the backlight rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point of that property line.
Exception: Corners. If two property lines (or two segments of the same property line) have equidistant point to the luminaire, then the luminaire may be oriented so that the intersection of the two lines (the corner) is directly behind the luminaire. The luminaire shall still use the distance to the nearest points(s) on the property lines to determine the required backlight rating.

5.106.8.2 Facing-Glare.
For luminaires covered by 5.106.8.1, if a property line also exists within or extends into the front hemisphere within 2MH of the luminaire then the luminaire shall comply with the more stringent glare rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point on the nearest property line within the front hemisphere.

Note: [N]
1.See also *California Building Code*, Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways.
2.Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table A-1, *California Energy Code* Tables 130.2-A and 130.2-B.
3. Refer to the *California Building Code* for requirements for additions and alterations.

5.106.10 GRADING AND PAVING. Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:

1. Swales.
2. Water collection and disposal systems.
3. French drains.
4. Water retention gardens.
5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.
Exception: Additions and alterations not altering the drainage path.

5.106.12 SHADE TREES [DSA-SS]. Shade Trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation necessary to establish and maintain tree health shall comply with Section 5.304.6.

5.106.12.1 Surface parking areas. Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50 percent of the parking area within 15 years.

Exceptions: Surface parking area covered by solar photovoltaic shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu of shade tree planting.

5.106.12.2 Landscape areas. Shade tress plantings, minimum #10 container size or equal shall be installed to provide shade of 20% of the landscape area within 15 years.

Exceptions: Playfields for organized sport activity are not included in the total area calculation.

5.106.12.3. Hardscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade over 20 percent of the hardscape area within 15 years.

Exceptions:
1. Walks, hardscape areas covered by solar photovoltaic shade structures or shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu of shade tree planting.
2. Designated and marked play areas of organized sport activity are not included in the total area calculation.

DIVISION 5.2 ENERGY EFFICIENCY
SECTION 5.201 GENERAL

5.201.1 Scope [BSC-CG]. ***California Energy Code [DSA-SS].*** For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory building standards.

DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION
SECTION 5.301 GENERAL

5.301.1 Scope. The provisions of this chapter shall establish the means of conserving water use indoors, outdoors and in wastewater conveyance.

SECTION 5.302 DEFINITIONS

5.302.1 Definitions. The following terms are defined in Chapter 2 *(and are included here for reference)*

EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) [DSA-SS]. An adjustment factor when applied to reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which ae two major influences on the amount of water that needs to be applied to the landscape.

FOOTPRINT AREA [DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade, not including exterior areas such as stairs, covered walkways, patios and decks.

METERING FAUCET. A self-closing faucet that dispenses a specific volume of water for each actuation cycle. The volume or cycle duration can be fixed or adjustable.

GRAYWATER. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. "Grayware" includes, but is not limited to wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines and laundry tubs, but does not include waste water from kitchen sinks or dishwashers.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). The California ordinance regulating landscape design, installation and maintenance practices that will ensure commercial, multifamily and other developer installed landscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and climatological parameters.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). [HCD] The California model ordinance (California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least as effective as the MWELO.

POTABLE WATER. Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards. See definition in the California Plumbing Code, Part 5.

POTABLE WATER. [HCD] Water that is satisfactory for drinking, culinary, and domestic purposes, and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority Having Jurisdiction.

RECYCLED WATER. Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur [Water Code Section 13050 (n)]. Simply put, recycled water is water treated to remove waste matter attaining a quality that is suitable to use the water again.

SUBMETER. [HCD 1] A secondary device beyond a meter that measures water consumption of an individual rental unit within a multiunit residential structure or mixed-use residential and commercial structure. (See Civic Code Section 1954.202 (g) and Water code Section 517 for additional details.)

WATER BUDGET. Is the estimated total landscape irrigation water use which shall not exceed the maximum applied water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape Ordinance (MWELO).

DISCLAIMER:*THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.*

UC DAVIS HEALTH BUILDING DEPARTMENT
APPROVED
REVIEWED FOR CODE COMPLIANCE
The set of plans and specifications must be kept on the job site at all times and it is unlawful to make any changes or alterations to the approved set without written permission from the Building Department.
The approval of this plan and specifications SHALL NOT be held to permit or approve the violation of any University Policy or State Building Code.
BY: Paul R Menard AIA, CBO DATE: 1/10/2024
PROJECT #: UCDH-2023-0230
UC Davis Health
Sacramento, CA 95817
BUILDING OFFICIAL:

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
CAMPUS FIRE MARSHAL:

LICENSED ARCHITECT
COURTNEY MCLEOD-GAINES
C-32210
REN. 5-31-25
STATE OF CALIFORNIA
PROFESSIONAL OF RECORD:

UC DAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE, SUITE 3010
SACRAMENTO, CALIFORNIA 95817
(916)734-7024

HGA
1200 R Street, Suite 100
Sacramento, California 95811
Telephone 916.787.5100
CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

4150 V ST,
SACRAMENTO, CA 95817

ACCOUNT NO: AC 9559630
BUILDING: PATIENT SUPPORT SERVICES BUILDING (PSSB)BLDG # 14
FLOOR/WING:
PROJECT TITLE: PSSB NETV2 UPGRADE
SHEET TITLE: CALIFORNIA GREEN BUILDING STANDARDS CODE

ARCH. / ENGR.	FD&C JOB NO.	
HGA	9559630	G040
UCDMC PROJECT MANAGER: KEN PICKETT	SCALE: AS SHOWN	
DESIGNED BY	DATE: JUNE 16, 2023	
DRAWN BY	HGA COMMISSION NO.: 1500-159-01	SHEET / OF

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Author 6/22/2023 1:59:17 PM C:\Users\dpesee\Documents\Revit Local Files\A23-UCDH PSSB_1500-159-01_jpuezada_hga.rvt

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 2 (January 2023)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

SECTION 5.303 INDOOR WATER USE

5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections 503.1.1 and 503.1.2.

5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows:

1. For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop.
2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems:
   a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s).
   b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s).
   c. Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW).

5.303.1.2 Excess consumption. A separate submeter or metering device shall be provided for any tenant within a new building or within an addition that is projected to consume more than 1,000 gal/day.

5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:

5.303.3.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-Type toilets.

Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.

5.303.3.2 Urinals.
5.303.3.2.1 Wall-mounted Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush.

5.303.3.2.2 Floor-mounted Urinals. The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush.

5.303.3.3 Showerheads. [BSC-CG]
5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.

5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time.
Note: A hand-held shower shall be considered a showerhead.

5.303.3.4 Faucets and fountains.

5.303.3.4.1 Nonresidential Lavatory faucets. Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.

5.303.3.4.2 Kitchen faucets. Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.

5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than1.8 gallons per minute/20 [rim space (inches) at 60 psi].

5.303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0.20 gallons per cycle.

5.303.3.4.5 Metering faucets for wash fountains. Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per minute/20 [rim space (inches) at 60 psi].

Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.

5.303.3.4.6 Pre-rinse spray value
When installed, shall meet the requirements in the *California Code of Regulations*, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) Table H-2, Section 1605.3 (h)(4)(A), and Section 1607 (d)(7), and shall be equipped with an integral automatic shutoff.

FOR REFERENCE ONLY: The following table and code section have been reprinted from the *California Code of Regulations*, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) and Section 1605.3 (h)(4)(A).

TABLE H-2

STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VALUES MANUFACTURED ON OR AFTER JANUARY 28, 2019

PRODUCT CLASS [spray force in ounce force (ozf)]	MAXIMUM FLOW RATE (gpm)
Product Class 1 (≤ 5.0 ozf)	1.00
Product Class 2 (> 5.0 ozf and ≤ 8.0 ozf)	1.20
Product Class 3 (> 8.0 ozf)	1.28

5.303.4 COMMERCIAL KITCHEN EQUIPMENT.

5.303.4.1 Food Waste Disposers. Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively grinding food waste/no-load) or shall automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water.
Note: This code section does not affect local jurisdiction authority to prohibit or require disposer installation.

5.303.5 AREAS OF ADDITION OR ALTERATION. For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply to new fixtures in additions or areas of alteration to the building.

5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed in accordance with the *California Plumbing Code*, and shall meet the applicable standards referenced in Table 1701.1 of the *California Plumbing Code* and in Chapter 6 of this code.

SECTION 5.304 OUTDOOR WATER USE

5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.

Notes:
1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, Title 23, Chapter 2.7, Division 2.
2. MWELO and supporting documents, including a water budget calculator, are available at: https://www.water.ca.gov/.

5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, *California Code of Regulations*, except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.

Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO.

5.304.6.1 Newly constructed landscapes. New construction projects with an aggregate landscape area equal to or greater than 500 square feet.

5.304.6.2 Rehabilitated landscapes. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.

DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

SECTION 5.401 GENERAL

5.401.1 SCOPE. The provisions of this chapter shall outline means of achieving material conservation and resource efficiency through protection of buildings from exterior moisture, construction waste diversion, employment of techniques to reduce pollution through recycling of materials, and building commissioning or testing and adjusting.

SECTION 5.402 DEFINITIONS

5.402.1 DEFINITIONS. The following terms are defined in Chapter 2 *(and are included here for reference)*

ADJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust a damper.

BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals, according to design quantities.

BUILDING COMMISSIONING. A systematic quality assurance process that spans the entire design and construction process, including verifying and documenting that building systems and components are planned, designed, installed, tested, operated and maintained to meet the owner's project requirements.

ORGANIC WASTE. Food waste, green waste, landscape and pruning wste, nonhazardous wood waste, and food soiled paper waste that is mixed in with food waste.

TEST. A procedure to determine quantitative performance of a system or equipment

SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT

5.407.1 WEATHER PROTECTION. Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local ordinance, whichever is more stringent.

5.407.2 MOISTURE CONTROL. Employ moisture control measures by the following methods.

5.407.2.1 Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures.

5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows:

5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following:

1. An installed awning at least 4 feet in depth.
2. The door is protected by a roof overhang at least 4 feet in depth.
3. The door is recessed at least 4 feet.
4. Other methods which provide equivalent protection.

5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane.

SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

5.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65% of the non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.

5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and demolition waste management ordinance, submit a construction waste management plan that:

1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.
2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).
3. Identifies diversion facilities where construction and demolition waste material collected will be taken.
4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

5.408.1.2 Waste Management Company. Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section.

Note: The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company.

Exceptions to Sections 5.408.1.1 and 5.408.1.2:

1. Excavated soil and land-clearing debris.
2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.
3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.

5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65% minimum requirement as approved by the enforcing agency.

5.408.1.4 Documentation. Documentation shall be provided to the enforcing agency which demonstrates compliance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.

Notes:

1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located www.dgs.ca.gov/BSC/Resources/Page-Content/Building-Standards-Commission-Resources-List-Folder/CALGreen may be used to assist in documenting compliance with the waste management plan.
2. Mixed construction and demolition debris processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

5.408.2 UNIVERSAL WASTE. [A] Additions and alterations to a building or tenant space that meet the scoping provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Waste items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste materials shall be included in the construction documents.

Note: Refer to the Universal Waste Rule link at: http://www.dtsc.ca.gov/universalwaste/

5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed.

Exception: Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.

Notes:

1. If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material.
2. For a map of know pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. (www.cdfa.ca.gov)

SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS

5.410.1 RECYCLING BY OCCUPANTS. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive.

Exception: Local jurisdictions that meet and apply for the exemption in Public Resources Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section.

5.410.1.1 Additions. All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30% or more in floor area, shall provide recycling areas on site.

Exception: Additions within a tenant space resulting in less than a 30% increase in the tenant space floor area.

5.410.1.2 Sample ordinance. Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the *Public Resources Code*. Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (Act).

Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's web site.

5.410.2 COMMISSIONING. [N] New buildings 10,000 square feet and over. For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements. Commissioning shall be performed in accordance with this section by trained personnel with experience on projects of comparable size and complexity. For I-occupancies that are not regulated by OSHPD or for I-occupancies and L-occupancies that are not regulated y the California Energy Code Section 100.0 Scope, all requirements in Sections 5.410.2 through 5.410.2.6 shall apply.

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements

Commissioning requirements shall include:

1. Owner's or Owner representative's project requirements.
2. Basis of design.
3. Commissioning measures shown in the construction documents.
4. Commissioning plan.
5. Functional performance testing.
6. Documentation and training.
7. Commissioning report.

Exceptions:

1. Unconditioned warehouses of any size.
2. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within unconditioned warehouses.
3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1.
4. Open parking garages of any size, or open parking garage areas, of any size, within a structure.

Note: For the purposes of this section, unconditioned shall mean a building, area, or room which does not provide heating and or air conditioning.

Informational Notes:

1. IAS AC 476 is an accreditation criteria for organizations providing training and/or certification of commissioning personnel. AC 476 is available to the Authority Having Jurisdiction as a reference for qualifications of commissioning personnel. AC 476 des not certify individuals to conduct functional performance tests or to adjust and balance systems.

2. Functional performance testing for heating, ventilation, air conditioning systems and lighting controls must be performed in compliance with the *California Energy Code*.

5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR). [N] The expectations and requirements of the building appropriate to its phase shall be documented before the design phase of the project begins. This documentation shall include the following:
1. Environmental and sustainability goals.
2. Building sustainable goals.
3. Indoor environmental quality requirements.
4. Project program, including facility functions and hours of operation, and need for after hours operation.
5. Equipment and systems expectations.
6. Building occupant and operation and maintenance (O&M) personnel expectations.

5.410.2.2 Basis of Design (BOD). [N] A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project. The Basis of Design document shall cover the following systems:

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse system.

5.410.2.3 Commissioning plan. [N] Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned. The commissioning plan shall include the following:
1. General project information.
2. Commissioning goals.
3. Systems to be commissioned. Plans to test systems and components shall include:
   a. An explanation of the original design intent.
   b. Equipment and systems to be tested, including the extent of tests.
   c. Functions to be tested.
   d. Conditions under which the test shall be performed.
   e. Measurable criteria for acceptable performance.
4. Commissioning team information.
5. Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning shall be included.

5.410.2.4 Functional performance testing. [N] Functional performance tests shall demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the approved plans and specifications. Functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments made.

5.410.2.5 Documentation and training. [N] A Systems Manual and Systems Operations Training are required, including Occupational Safety and Health Act (OSHA) requirements in *California Code of Regulations* (CCR), Title 8, Section 5142, and other related regulations.

5.410.2.5.1 Systems manual. [N] Documentation of the operational aspects of the building shall be completed within the systems manual and delivered to the building owner or representative. The systems manual shall include the following:
1. Site information, including facility description, history and current requirements.
2. Site contact information.
3. Basic operations and maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log.
4. Major systems.
5. Site equipment inventory and maintenance notes.
6. A copy of verifications required by the enforcing agency or this code.
7. Other resources and documentation, if applicable.

5.410.2.5.2 Systems operations training. [N] A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and documented in the commissioning report and shall include the following:
1. System/equipment overview (what it is, what it does and with what other systems and/or equipment it interfaces).
2. Review and demonstration of servicing/preventive maintenance.
3. Review of the information in the Systems Manual.
4. Review of the record drawings on the system/equipment.

5.410.2.6 Commissioning report. [N] A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or representative.

5.410.4 TESTING AND ADJUSTING. New buildings less than 10,000 square feet. Testing and adjusting of systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1.

5.410.4.2 (Reserved)

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)3 for additional testing requirements of specific systems.

5.410.4.2 Systems. Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include at a minimum, as applicable to the project:

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse systems.

5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.

5.410.4.3.1 HVAC balancing. In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards; the National Environmental Balancing Bureau Procedural Standards; Associated Air Balance Council National Standards or as approved by the enforcing agency.

5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.

5.410.4.5 Operation and maintenance (O & M) manual. Provide the building owner or representative with detailed operating and maintenance instructions and copies of guaranties/warranties for each system. O & M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related regulations.

5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports required by the enforcing agency.

DIVISION 5.5 ENVIRONMENTAL QUALITY

SECTION 5.501 GENERAL

5.501.1 SCOPE. The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.

SECTION 5.502 DEFINITIONS

5.502.1 DEFINITIONS. The following terms are defined in Chapter 2 *(and are included here for reference)*

ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic usually on a continuous route.

A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level meter using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting adjustments have been made.

1 BTU/HOUR. British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu, the amount of heat required to melt a ton (2,000 pounds) of ice at 32^{0} Fahrenheit.

COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day-night average sound level (Ldn), except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours (7pm to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn.

COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood I–joists or finger–jointed lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120.1(a).

Note: See CCR, Title 17, Section 93120.1.

DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure level for a 24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10p.m. to 7 a.m.).

DECIBEL (db). A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure, sound power, sound intensity) with respect to a reference quantity.

ELECTRIC VEHICLE (EV). An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the *California Electrical Code*, off-road, self-propelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground support equipment, tractors, boats, and the like, are not included.

ELECTRIC VEHICLE CHARGING STATION(S) (EVCS). One or more spaces intended for charging electric vehicles.

ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). The conductors, including the ungrounded, grounded, and equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices, power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle.

ENERGY EQUIVALENT (NOISE) LEVEL (Leq). The level of a steady noise which would have the same energy as the fluctuating noise level integrated over the time of period of interest.

EXPRESSWAY. An arterial highway for through traffic which may have partial control of access, but which may or may not be divided or have grade separations at intersections.

FREEWAY. A divided arterial highway with full control of access and with grade separations at intersections.

GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given greenhouse gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference compound with a GWP of one.

GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). A 100-year GWP value published by the Intergovernmental Panel on Climate Change ((IPCC) in either its Second Assessment Report (SAR) ((IPCC, 1995); or its Fourth Assessment A-3 Report (AR4) ((IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of Table 2.14.; the AR4 GWP values are found in column "100 yr" of Table 2.14.

HIGH-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a hdrochlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, a perfluorocarbon, or any compound or blend of compounds, with a GWP value equal to or greater than 150, or (B) any ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009)**.**

LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.5 times the pipe diameter.

LOW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than 150, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2–1999.

MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base REactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundreths of a gram (g O^{3}/g ROC).

PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging).

PSIG. Pounds per square inch, guage.

REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.

SCHRADER ACCESS VALVES. Access fittings with a valve core installed.

SHORT RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.0 times the pipe diameter.

SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square feet or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units.

VOC. A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a)

Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definition included in that specific regulation is the one that prevails for the specific measure in question.

SECTION 5.503 FIREPLACES

5.503.1 FIREPLACES. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances.

5.503.1.1 Woodstoves. Woodstoves and pellet stoves shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits.

SECTION 5.504 POLLUTANT CONTROL

5.504.1 TEMPORARY VENTILATION. The permanent HVAC system shall only be used during construction if necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 52.1-1992 Replace all filters immediately prior to occupancy, or, if the building is occupied during alteration, at the conclusion of construction.

5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilation equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.

DISCLAIMER:THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.

UC DAVIS HEALTH BUILDING DEPARTMENT
APPROVED
REVIEWED FOR CODE COMPLIANCE
The set of plans and specifications must be kept on the job site at all times and it is unlawful to make any changes or alterations to the approved set without written permission from the Building Department.
The approval of this plan and specifications SHALL NOT be held to permit or approve the violation of any University Policy or State Building Code.
BY: Paul R Menard AIA, CSO DATE: 1/10/2024
PROJECT #: UCDH-2023-0230
UC Davis Health
Sacramento, CA 95817
BUILDING OFFICIAL:

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
CAMPUS FIRE MARSHAL:

LICENSED ARCHITECT
COURTNEY MCLEOD-GLAVEN
C-32210
REN. 5-31-25
STATE OF CALIFORNIA
PROFESSIONAL OF RECORD:

UC DAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE, SUITE 3010
SACRAMENTO, CALIFORNIA 95817
(916)734-7024

HGA
1200 R Street, Suite 100
Sacramento, California 95811
Telephone 916.787.5100
CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

4150 V ST,
SACRAMENTO, CA 95817

ACCOUNT NO.: AC 9559630
BUILDING: PATIENT SUPPORT SERVICES BUILDING (PSSB)BLDG # 14
FLOOR/WING:
PROJECT TITLE: PSSB NETV2 UPGRADE
SHEET TITLE: CALIFORNIA GREEN BUILDING STANDARDS CODE

ARCH. / ENGR.	FD&C JOB NO.	
HGA	9559630	G041
UCDMC PROJECT MANAGER: KEN PICKETT	SCALE: AS SHOWN	
DESIGNED BY	DATE: JUNE 16, 2023	
DRAWN BY	HGA COMMISSION NO.: 1500-159-01	SHEET / OF

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6/22/2023 1:59:20 PM
Author

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 3 (January 2023)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

Y	N/A	RESPON. PARTY
☒	☐	ARCHITECT

5.504.4 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.

5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards:

1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products as specified in subsection 2, below.

2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of *California Code of Regulations*, Title 17, commencing with Section 94507.

TABLE 5.504.4.1 - ADHESIVE VOC LIMIT[1,2]

Less Water and Less Exempt Compounds in Grams per Liter

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT & ASPHALT TILE ADHESIVES	50
DRYWALL & PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVES	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	80

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.

2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF

TABLE 5.504.4.2 - SEALANT VOC LIMIT

Less Water and Less Exempt Compounds in Grams per Liter

SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NONPOROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

5.504.4.3 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.

5.504.4.3.1 Aerosol Paints and coatings. Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of *California Code of Regulations*, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.

Y	N/A	RESPON. PARTY

TABLE 5.504.4.3 - CONT.

GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS

COATING CATEGORY	CURRENT VOC LIMIT
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH-TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS[1]	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS:	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS

2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.

3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:

1. Manufacturer's product specification
2. Field verification of on-site product containers

5.504.4.4 Carpet Systems.
All carpet installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers." Version 1.2, January 2017 (Emission testing method for California Specifications 01350).

See California Department of Public Health's website for certification programs and testing labs.
https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers,"Version 1.2, January 2017 (Emission testing method for California Specifications 01350).

See California Department of Public Health's website for certification programs and testing labs.
https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1.

5.504.4.5 Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.). Those materials not exempted under the ATCM must meet the specified emission limits, as shown in Table 5.504.4.5.

5.504.4.5.3 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:

1. Product certifications and specifications.
2. Chain of custody certifications.
3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).
4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S standards.
5. Other methods acceptable to the enforcing agency.

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS[1]

MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION

PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD[2]	0.13

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.

2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8 MM).

Y	N/A	RESPON. PARTY
☐	☒	
☐	☒	
☒	☐	MECHANICAL
☒	☐	MECHANICAL
☐	☒	
☒	☐	ARCHITECT
☒	☐	MECHANICAL

5.504.4.6 Resilient flooring systems. Where resilient flooring is installed, at least 80 percent of floor area receiving resilient flooring shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specifications 01350)

See California Department of Public Health's website for certification programs and testing labs.
https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.

5.504.4.7 Thermal insulation
Comply with the requirements of the California Department of Public Health, "Standard Method of the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, "Version 1.2, January 1.2, January 2017 (Emission testing method for California Specification 01350).
See California Department of Public Health's website for certification programs and testing labs.
https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.7.1 Verification of compliance.
Documentation shall be provided verifying that thermal insulation materials meet the pollutant emission limits.

5.504.4.8 Acoustical ceiling and wall panels.
Comply with the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, " Version 1.2, January 2017 (Emission testing method for California Specification 01350).
See California Department of Public Health's website for certification programs and testing labs.

5.504.4.8.1 Verification of compliance. Documentation shall be provided verifying that acoustical finish materials meet the pollutant emission limits.

5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

Exceptions: Existing mechanical equipment.

5.504.5.3.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.

5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and within the building as already prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the University of California, whichever are more stringent. When ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibitions.

SECTION 5.505 INDOOR MOISTURE CONTROL

5.505.1 INDOOR MOISTURE CONTROL. Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 of this code.

SECTION 5.506 INDOOR AIR QUALITY

5.506.1 OUTSIDE AIR DELIVERY. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the *California Energy Code*, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

5.506.2 CARBON DIOXIDE (CO_2) MONITORING. For buildings or additions equipped with demand control ventilation, CO_2 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 120(c)(4).

5.506.3 Carbon dioxide (CO2) monitoring in classrooms.
(DSA-SS) Each public K-12 school classroom, as listed in Table 120.1-A of the *California Energy Code*, shall be equipped with a carbon dioxide monitor or sensor that meets the following requirements:

1. The monitor or sensor shall be permanently affixed in a tamper-proof manner in each classroom between 3 and 6 feet (914 mm and 1829 mm) above the floor and at least 5 feet (1524 mm) away from door and operable windows.
2. When the monitor or sensor is not integral to an Energy Management Control System (EMCS), the monitor or sensor shall display the carbon dioxide readings on the device. When the sensor is integral to an EMCS, the carbon dioxide readings shall be available to and regularly monitored by facility personnel.
3. A monitor shall provide notification though a visual indicator on the monitor when the carbon dioxide levels in the classroom have exceeded 1,100ppm. A sensor integral to an EMCS shall provide notification to facility personnel through a visual and/or audible indicator when the carbon dioxide levels in the classroom have exceeded 1,100ppm.
4. The monitor or sensor shall measure carbon dioxide levels at minimum 15- minute intervals and shall maintain a record of previous carbon dioxide measurements of not less than 30 days duration.
5. The monitor or sensor used to measure carbon dioxide levels shall have the capacity to measure carbon dioxide levels with a range of 400ppm to 2000ppm or greater.
6. The monitor or sensor shall be certified by the manufacturer to be accurate within 75ppm at 1,000ppm carbon dioxide concentration and shall be certified by the manufacturer to require calibration no more frequently than once every 5 years.

SECTION 5.507 ENVIRONMENTAL COMFORT

5.507.4 ACOUSTICAL CONTROL. Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413, or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.

Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.

Exception: [DSA-SS] For public schools and community colleges, the requirements of this section and all subsections apply only to new construction.

5.507.4.1 Exterior noise transmission, prescriptive method. Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:

1. Within the 65 CNEL noise contour of an airport.

   Exceptions:

   1. L_{dn} or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan.
   2. L_{dn} or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.

2. Within the 65 CNEL or L_{dn} noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.

5.507.4.1.1. Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB L_{eq} - 1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).

5.507.4.2 Performance Method. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (L_{eq}-1Hr) of 50 dBA in occupied areas during any hour of operation.

5.507.4.2.1 Site Features. Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

5.507.4.2.2 Documentation of Compliance. An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.

5.507.4.3 Interior sound transmission. Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.

Note: Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: www.toolbase.org/PDF/CaseStudies/stc_icc_ratings.pdf.

SECTION 5.508 OUTDOOR AIR QUALITY

5.508.1 Ozone depletion and greenhouse gas reductions. Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

5.508.1.1 Chlorofluorocarbons (CFCs). Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.

5.508.1.2 Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.

Y	N/A	RESPON. PARTY
☐	☒	

5.508.2 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.

Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO_2), and potentially other refrigerants.

5.508.2.1 Refrigerant piping. Piping compliant with the California Mechanical Code shall be installed to be accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside diameter (OD) less than 1/4 inch, flared tubing connections and short radius elbows shall not be used in refrigerant systems except as noted below.

5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack.

5.508.2.1.2 Copper pipe. Copper tubing with an OD less than 1/4 inch may be used in systems with a refrigerant charge of 5 pounds or less.

5.508.2.1.2.1 Anchorage. One-fouth-inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 8 mils.

5.508.2.1.3 Flared tubing connections. Double-flared tubing connections may be used for pressure controls, valve pilot lines and oil.

Exception: Single-flared tubing connections may be used with a multiring seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's recommendations.

5.508.2.1.4 Elbows. Short radius elbows are only permitted where space limitations prohibit use of long radius elbows.

5.508.2.2 Valves. Valves Valves and fittings shall comply with the *California Mechanical Code* and as follows.

5.508.2.2.1 Pressure relief valves. For vessels containing high-GWP refrigerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve.

5.508.2.2.1.1 Pressure detection. A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve.

5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are permitted for use.

5.508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic.

5.508.2.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place.

5.508.2.2.2.2.1 Chain tethers. Chain tethers to fit ovr the stem are required for valves designed to have seal caps.

Exception: Valves with seal caps that are not removed from the valve during stem operation.

5.508.2.3 Refrigerated service cases. Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils of corrosion-resistant material, such as stainless steel; or be coated to prevent corrosion from these substances.

5.508.2.3.1 Coil coating. Consideration shall be given to the heat transfer efficiency of coil coating to maximize energy efficiency.

5.508.2.4 Refrigerant receivers. Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device tha indicates the level of refrigerant in the receiver.

5.508.2.5 Pressure testing. The system shall be pressure tested during installation prior to evacuation and charging.

5.508.2.5.1 Minimum pressure. The system shall be charged with regulated dry nitrogen and appropriate tracer gas to bring system pressure up to 300 psig minimum.

5.508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and retest for pressure using the same gauge.

5.508.2.5.3 Allowable pressure change. The system shall stand, unaltered, for 24 hours with no more than a +/- one pound pressure change from 300 psig, measured with the same gauge.

5.508.2.6 Evacuation. The system shall be evacuated after pressure testing and prior to charging.

5.508.2.6.1 First vacuum. Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and hold for 30 minutes.

5.508.2.6.2 Second vacuum. Pull a second system vacuum to a minimum of 500 microns and hold for 30 minutes.

5.508.2.6.3 Third vacuum. Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.

CHAPTER 7
INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

1. State certified apprenticeship programs.
2. Public utility training programs.
3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.
4. Programs sponsored by manufacturing organizations.
5. Other programs acceptable to the enforcing agency.

702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

1. Certification by a national or regional green building program or standard publisher.
2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors.
3. Successful completion of a third party apprentice training program in the appropriate trade.
4. Other programs acceptable to the enforcing agency.

Notes:

1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.
2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).

[BSC-CG] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

703 VERIFICATIONS

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.

DISCLAIMER: *THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.*

UC DAVIS HEALTH BUILDING DEPARTMENT
APPROVED
REVIEWED FOR CODE COMPLIANCE
The set of plans and specifications must be kept on the job site at all times and it is unlawful to make any changes or alterations to the approved set without written permission from the Building Department.
The approval of this plan and specifications SHALL NOT be held to permit or approve the violation of any University Policy or State Building Code.
BY: Paul R Menard AIA, CBO DATE: 1/10/2024
PROJECT #: UCDH-2023-0230
UC Davis Health
Sacramento, CA 95817
BUILDING OFFICIAL:

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
CAMPUS FIRE MARSHAL:

LICENSED ARCHITECT
COURTNEY MCLEOD-GLAVEN
C-32210
REN. 5-31-25
STATE OF CALIFORNIA
PROFESSIONAL OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE, SUITE 3010
SACRAMENTO, CALIFORNIA 95817
(916)734-7024

HGA
1200 R Street, Suite 100
Sacramento, California 95811
Telephone 916.787.5100
CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

4150 V ST,
SACRAMENTO, CA 95817

ACCOUNT NO.: AC 9559630
BUILDING: PATIENT SUPPORT SERVICES BUILDING (PSSB) BLDG # 14
FLOOR/WING:
PROJECT TITLE: PSSB NETV2 UPGRADE
SHEET TITLE: CALIFORNIA GREEN BUILDING STANDARDS CODE

ARCH. / ENGR.	FD&C JOB NO.	
HGA	9559630	G042
UCDMC PROJECT MANAGER: KEN PICKETT	SCALE: AS SHOWN	
DESIGNED BY	DATE: JUNE 16, 2023	
DRAWN BY	HGA COMMISSION NO.: 1500-159-01	SHEET / OF

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6/22/2023 1:59:24 PM
Author

A	
A/E	ARCHITECT/ENGINEER
ACOUS	ACOUSTICAL
AD	ACCESS DOOR
ADA	THE AMERICANS WITH DISABILITIES ACT
ADD	ADDENDUM
ADDL	ADDITIONAL
ADJ	ADJUSTABLE
ADJC	ADJACENT
AED	DEFIBRILATOR
AF	ACCESS FLOOR
AFF	ABOVE FINISH FLOOR
AL	ALUMINUM
ALT	ALTERNATE
AP	ACCESS PANEL
APPROX	APPROXIMATE(LY)
ARCH	ARCHITECT(URAL)
ASC	ABOVE SUSPENDED CEILING
ASPH	ASPHALT
B	
BD	BOARD
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BO	BOTTOM OF
BOT	BOTTOM
BRKT	BRACKET
BS	BACKSPLASH
BSMT	BASEMENT
BTW	BETWEEN
BYND	BEYOND
C	
CAB	CABINET
CEN	CENT(ER) (TRAL)
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CG	CORNER GUARD
CIP	CAST IN PLACE
CJ	CONTROL/CONSTRUCTION JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR(ANCE)
CLR	CLEAR
CMPST	COMPOSITE
CMU	CONCRETE MASONRY UNIT
CNTFG	CENTRIFUGE
CNTR	COUNTER
CO	CASED OPENING; CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONN	CONNEC(TION)
CONST	CONSTRUCTION
CONT	CONTINU(E) (OUS) (ATION)
CONT	CONTINUOUS
CORR	CORRIDOR
CR	CARD READER
CYL	CYLINDER
D	
D	DEEP, DEPTH
DBL	DOUBLE
DED	DEDICATED
DEG	DEGREE
DEMO	DEMO(LISH) (LITION)
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DN	DOWN
DO	DATA OUTLET
DR	DOOR
DWG(S)	DRAWING(S)
E	
(E), EXIST	EXISTING
E	ELEVATOR
EA	EACH
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
EMER	EMERGENCY
EMI	ELECTROMAGNETIC INTERFERENCE
ENCL	ENCLOSURE
EO	ELECTRICAL OUTLET
EOS	EDGE OF SLAB
EP	ELECTRICAL PANEL
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EPRF	EXPLOSION PROOF
EQ	EQUAL
EQUIP	EQUIPMENT
ETR	EXISTING TO REMAIN
EXCL	EXCLUD(E) (ED) (ING)
EXG	EXISTING
EXH	EXHAUST
EXP	EXPAN(D) (SION)
EXT	EXTERIOR
EXTR	EXTERIOR
F	
F/F	FACE TO FACE
FA	FIRE ALARM
FACP	FIRE ALARM PANEL
FAS	FASTEN(ED) (ER)
FB	FLAT BAR
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FLOOR FINISH
FHC	FIRE HOSE CABINET
FHP	FULL HEIGHT PARTITION
FIN	FINISH
FL	FLASHING
FLR	FLOOR(ING)
FO	FACE OF
FOC	FACE OF CONCRETE
FOW	FACE OF WALL
FP	FILLER PANEL
FSTR	FASTEN(ED) (ER)
FT	FOOT, FEET
FTG	FOOTING
G	
G	GAS
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GL	GLASS
GR	GRADE
GWB	GYPSUM WALL BOARD
H	
H	HIGH, HEIGHT
HB	HOSE BIB
HD	HEAD
HDW	HARDWARE
HDWD	HARDWOOD
HGT	HEIGHT
HM	HOLLOW METAL
HMD	HOLLOW METAL DOOR
HO	HOLD OPEN
HORIZ	HORIZONTAL
HP	HIGH POINT
HR	HANDRAIL(S)
HT	HEIGHT
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HYDR	HYDRAULIC
I	
ID	INSIDE DIAMETER/DIMENSION
IN	INCH(ES)
INCL	INCLU(DE) (DED) (DING) (SIVE)
INSUL	INSULAT(E) (ED)
INT	INTERIOR
INTR	INTERIOR
J	
JAN	JANITOR
JST	JOIST
JT	JOINT
K	
KOP	KNOCKOUT PANEL
KPL	KICK PLATE
KS	KNEE SPACE
L	
L	ANGLE (STRUC SHAPE)
LAB	LABORATORY
LAV	LAVATORY
LB	POUND
LENGTH	LONG, LENGTH
LF	LINEAR FOOT
LFFEET	LINEAL FOOT, FEET
LH	LEFT HAND
LHR	LEFT HAND REVERSE
LKR	LOCKER
LNTL	LINTEL
LT	LIGHT
LTG	LIGHTING
LTWT	LIGHTWEIGHT
LVL	LEVEL
LVR	LOUVER
M	
MACH	MACHINE
MAINT	MAINTENANCE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MARKERBOARD
MECH	MECHANICAL(LY)
MED	MEDIUM
MEMB	MEMBRANE
MET	METAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MT(D)	MOUNT(ED)
MTL	METAL
MUL	MULLION
MVBL	MOVABLE
N	
N	NORTH; NITROGEN
N/A	NOT APPLICABLE
NEC	NECESSARY
NIC	NOT IN CONTRACT
NO2	NITROUS OXIDE
NOM	NOMINAL
NTS	NOT TO SCALE
O	
O	OXYGEN
O2	OXYGEN
OC	ON CENTER
OD	OUTSIDE DIAMETER/DIMENSION
OF	OUTSIDE FACE
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFF	OFFICE
OFOI	OWNER FURNISHED, OWNER INSTALLED
OFVI	OWNER FURNISHED, VENDOR INSTALLED
OH	OVERHEAD
OH	OPPOSITE HAND
OHSC	OVERHEAD SERVICE CARRIER
OPG	OPENING
OPP	OPPOSITE
OPT	OPTION(AL)
P	
PA	POWER ASSIST
PAR	PARALLEL
PART	PARTICLE; PARTIAL
PB	PANIC BAR
PC	PRECAST
PERF	PERFORATED
PERIM	PERIMETER
PGBD	PEG BOARD
PL	PLATE
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLYWD	PLYWOOD
PNEU	PNEUMATIC
PNL	PANEL
PR	PAIR
PRCST	PRECAST
PREFAB	PREFABRICATED
PTD	PAINTED
PTN	PARTITION
PTS	PNEUMATIC TUBE STATION
Q	
QTY	QUANTITY
R	
R	RADIUS; RADII; RISER (STAIR)
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REC	RECESSED
RECP	RECEPTACLE
REF	REFER(ENCE)
REFR	REFRIGERATOR
REINF	REINFORC(E) (ED) (ING) (EMENT)
REQD	REQUIRED
RESIL	RESILIENT
REV	REVIS(E) (ED) (ION)
RH	RIGHT HAND
RHR	RIGHT HAND REVERSE
RM	ROOM
RO	ROUGH OPENING
S	
SCHED	SCHEDULE
SECT	SECTION
SF	SQUARE FOOT/FEET
SHT	SHEET(ING)
SHTG	SHEATHING
SIM	SIMILAR
SKLT	SKYLIGHT(S)
SPEC(S)	SPECIFICATION(S)
SPK	SPEAKER
SS	STAINLESS STEEL
ST	STREET
STAG	STAGGER
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUC	STRUCTUR(E) (AL)
SUSP	SUSPENDED
SYM	SYMMETR(Y) (ICAL)
T	
T	TREAD
T&G	TONGUE AND GROOVE
T/D	TELEPHONE DATA OUTLET
TEL	TELEPHONE
TEMP	TEMPORARY
TER	TERRAZZO
THK	THICKNESS
TME	TO MATCH EXISTING
TO	TOP OF
TOB	TOP OF BEAM
TOC	TOP OF CONCRETE
TOS	TOP OF STEEL
TV	TELEVISION
TYP	TYPICAL
U	
UC	UNDER CABINET
UCL	UNDER CABINET LIGHTING
UNEX	UNEXCAVATED
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
UR	URINAL
UV	ULTRAVIOLET
V	
VAC	VACUUM
VAR	VAR(Y) (IES) (IATION)
VCT	VINYL COMPOSITION TILE
VEN	VENEER
VERT	VERTICAL
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
W	
W	WIDE, WIDTH
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WP	WATERPROOFING
WSCT	WAINSCOT
WT	WEIGHT
X	
XP(D)	EXPOSE(D)

SPECIAL SYMBOLS			
&	AND	#	NUMBER
∠	ANGLE(STRUC SHAPE)	/	PER
@	AT	⊥	PERPENDICULAR
℄	CENTERLINE	±	PLUS/MINUS
ø	DIAMETER		

GENERAL NOTES

A. THESE GENERAL NOTES APPLY TO THE CONSTRUCTION DOCUMENTS AND SHALL GOVERN UNLESS NOTED OTHERWISE BY GENERAL NOTES OR KEYNOTES ON SPECIFIC SHEETS.

B. ATTACHMENTS OF EQUIPMENT WEIGHING LESS THAN 400# AND SUPPORTED DIRECTLY ON THE FLOOR OR ROOF STRUCTURE, FURNITURE OR TEMPORARY OR MOVEABLE EQUIPMENT AND EQUIPMENT WEIGHING LESS THAN 20# THAT IS SUPPORTED BY VIBRATION ISOLATION DEVICES SUPPORTED FROM THE ROOF, WALL OR FLOOR NEED NOT BE DETAILED ON THE PLANS. (CBC TITLE 24 PART 2 SECTION 1617A.1.18). HOWEVER, SUCH EQUIPMENT MUST BE SUPPORTED AND ANCHORED TO RESIST THE FORCES PRESCRIBED BY ASCE 7-16 SECTION 13.3 AND ANCHORAGE SHALL BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD AS PART OF FIELD REVIEWS/INSPECTIONS. THE INSPECTOR OF THE RECORD SHALL ASSURE THAT THE ABOVE REQUIREMENTS ARE ENFORCED.

C. ENERGY COMPLIANCE: THE FOLLOWING SECTIONS OF THE CALIFORNIA ENERGY CODE CCR TITLE 24, PART 6 SHALL BE FOLLOWED FOR THIS CONSTRUCTION.
   1. DEVICES (SECTION 100(G)): THE USE OF MANUFACTURED DEVICES IS LIMITED TO DEVICES CERTIFIED BY THE MANUFACTURER TO MEET OR EXCEED THE MINIMUM SPECIFICATIONS OR EFFICIENCIES ADOPTED BY THE CALIFORNIA ENERGY COMMISSION.
   2. CONSTRUCTION (SECTION 101): COMPLY WITH THE DEFINITIONS AND RULES OF CONSTRUCTION.
   3. INSULATION (SECTION 118): THE USE OF INSULATING MATERIALS IS LIMITED TO ONLY THOSE THAT HAVE BEEN CERTIFIED BY THE MANUFACTURER TO COMPLY WITH THE CALIFORNIA QUALITY STANDARDS OF INSULATING MATERIAL, TITLE 20, CHAPTER 4, ARTICLE 3. ALL INSULATING MATERIALS SHALL COMPLY WITH THE FLAME SPREAD RATING AND SMOKE DENSITY LIMITATIONS OF THE CBC. INSTALLATION AND R-VALUES FOR INSULATING MATERIALS SHALL BE IN COMPLIANCE WITH SECTION 118.

R1

D. THE AUTOMATIC FIRE SPRINKLER SYSTEM SHALL CONFORM TO THE REQUIREMENTS OF THE 2022 EDITION OF NFPA STANDARD #13. INSTALLATION OF THE FIRE SPRINKLER SYSTEM SHALL NOT BE STARTED UNTIL COMPLETE PLANS, MATERIAL CUT SHEETS, AND SPECIFICATIONS (INCLUDING WATER SUPPLY INFORMATION) HAVE BEEN APPROVED BY AHJ. AT VARIOUS STAGES AND UPON COMPLETION THE SYSTEM SHALL BE TESTED IN THE PRESENCE OF THE ENFORCING AGENCY.

E. ALL EQUIPMENT SHALL BE LISTED.

F. OUTLET BOXES IN FIRE RATED WALLS AND PARTITIONS SHALL BE SEPARATED HORIZONTALLY A MINIMUM OF 24 INCHES PER CBC 714.4.2.1.

G. THE FIRE ALARM SYSTEM SHALL CONFORM TO BOTH ARTICLE 760 OF THE CALIFORNIA ELECTRIC CODE AND CHAPTER 9, SECTION 907 OF THE CFC. THIS SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH 2016 EDITION OF NFPA 72 WITH CALIFORNIA AMENDMENTS.

H. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY.

I. PENETRATIONS OF PIPES, CONDUITS, ETC. IN RATED ASSEMBLIES SHALL BE FIRE-STOPPED. FIRE-STOPPING SHALL BE AN APPROVED MATERIAL AS PRESCRIBED BY THE STATE FIRE MARSHALL STANDARDS PROTECTION DETAILS OF THRU-PENETRATIONS THROUGH FIRE RATED PARTITIONS SHALL BE UL/WH LISTED AND COMPLY WITH CBC, SECTION 714. PROTECTION DETAILS OF MEMBRANE PENETRATIONS THROUGH FIRE PARTITIONS SHALL COMPLY WITH CBC SECTION 714.4.2.

J. COORDINATE ALL PROJECT PHASING WITH OWNER OR AS SPECIFIED AND/OR SHOWN ON THE DRAWINGS.

K. PROVIDE A SAFE MEANS OF EGRESS THROUGH AND/OR AROUND THE BUILDING AND SITE PER APPLICABLE CODES AT ALL TIMES DURING THE CONSTRUCTION PROCESS. MINIMIZE DISRUPTION TO ADJACENT AREAS/FLOORS AS MUCH AS POSSIBLE.

L. MINIMIZE NOISE TO A LEVEL ACCEPTABLE TO THE OWNER. SCHEDULE TASKS CREATING EXCESSIVE NOISE OR NEAR SENSITIVE AREAS WITH THE OWNER.

M. PROVIDE DUST CONTROL BETWEEN CONSTRUCTION AREAS AND OCCUPIED AREAS AT ALL TIMES AS SPECIFIED.

N. NOTIFY ARCHITECT PROMPTLY IF INFORMATION SHOWN IN ONE CONSTRUCTION DOCUMENT CONFLICTS WITH INFORMATION SHOWN ON ANOTHER.

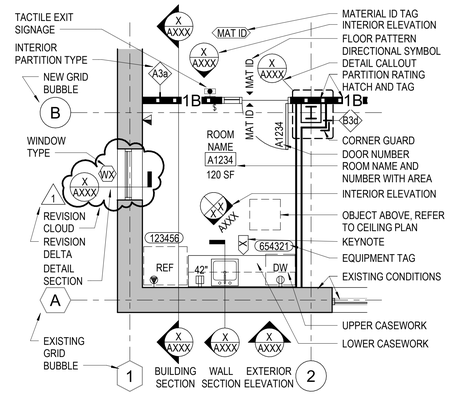
O. NOTIFY ARCHITECT PROMPTLY IF CONSTRUCTION DOCUMENTS ARE INCONSISTENT WITH THE CURRENT APPLICABLE CODES AND REGULATIONS.

P. NOTIFY ARCHITECT PROMPTLY IF ANY EXISTING CONDITIONS CONFLICT WITH THE CONSTRUCTION DOCUMENTS.

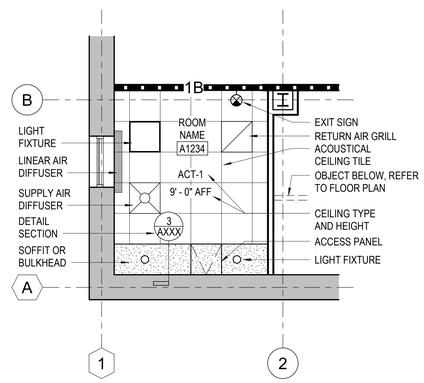
Q. STRUCTURAL STEEL MEMBER PROFILES AS INDICATED ON ARCHITECTURAL DRAWINGS MAY VARY FROM ACTUAL PROFILES AND SIZES INDICATED ON THE STRUCTURAL DRAWINGS WHICH SHALL GOVERN.

R. COORDINATE EXACT LOCATIONS OF LIGHT FIXTURES, SMOKE DETECTORS, EXIT LIGHTS, ACCESS PANELS, SPRINKLER HEADS, HVAC DUCTS, DIFFUSERS, REGISTERS, AND OTHER SUCH CEILING ITEMS WITH MECHANICAL, ELECTRICAL AND OTHER TRADES. NOTIFY ARCHITECT PROMPTLY IF ANY LOCATIONS CONFLICT WITH ARCHITECTURAL REFLECTED CEILING PLANS.

S. REFER TO GENERAL, ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR FLOOR, WALL, AND CEILING OPENINGS. ALL OPENINGS SHALL BE CUT AND PATCHED AS REQUIRED BY EACH DISCIPLINE OR TRADE REQUIRING THE OPENING UNLESS NOTED OTHERWISE IN THE CONSTRUCTION DOCUMENTS. PATCHING IS TO BE IN CONFORMANCE WITH APPLICABLE CODES.



1 SYMBOL DESIGNATIONS - FLOOR PLAN (REFERENCE)
1/4" = 1'-0"



2 SYMBOL DESIGNATIONS - CEILING PLAN (REFERENCE)
1/4" = 1'-0"

SHEET NUMBER EXPLANATION

1. ARCHITECTURAL
THIS CHARACTER DENOTES THE SHEET IS AN ARCHITECTURAL DRAWING.

2. SHEET TYPE
THIS CHARACTER DENOTES THE TYPE OF INFORMATION ON THE SHEET

1. DEMOLITION PLANS
2. FLOOR PLANS
3. CEILING PLANS
4. EXTERIOR DETAILING
5. VERTICAL CIRCULATION
6. INTERIOR DETAILING
7. SCHEDULES
8. LAB (IF USED)
9. SHEET SPECIFICATIONS (IF USED)

3. PLAN TYPE
THESE CHARACTERS DENOTE THE SUB CATEGORY OF THE SHEET TYPE

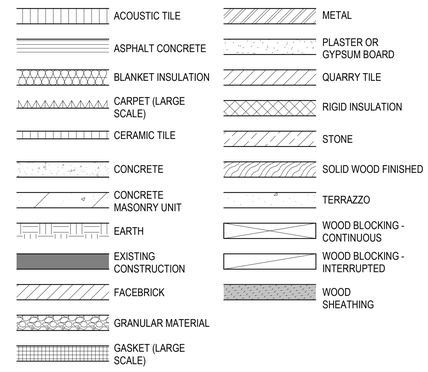
4. FLOOR NUMBER
THESE CHARACTERS DENOTE THE FLOOR SHOWN ON THE SHEET

5. PLAN AREA
THESE CHARACTERS DENOTE THE AREA PLAN SHOWN ON THE SHEET (IF USED)

SHEET NUMBER EXAMPLE: A234B
1. DISCIPLINE DESIGNATION
2. SHEET TYPE
3. PLAN TYPE
4. FLOOR NUMBER
5. PLAN AREA

3 ARCHITECTURAL SHEET NUMBER DESIGNATIONS

4 ARCHITECTURAL MATERIAL DESIGNATIONS



UC DAVIS HEALTH BUILDING DEPARTMENT
APPROVED
REVIEWED FOR CODE COMPLIANCE
The set of plans and specifications must be kept on the job site at all times and it is unlawful to make any changes or alterations to the approved set without written permission from the Building Department.
The approval of this plan and specifications SHALL NOT be held to permit or approve the violation of any University Policy or State Building Code.
BY: Paul R Menard AIA, CBO DATE: 1/10/2024
PROJECT #: UCDH-2023-0230
UC Davis Health
Sacramento, CA 95817
BUILDING OFFICIAL

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
CAMPUS FIRE MARSHAL:

LICENSED ARCHITECT
COURTNEY NICLEOD-GLAVINICH
C-32210
REN. 5-31-25
STATE OF CALIFORNIA
PROFESSIONAL OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE, SUITE 3010
SACRAMENTO, CALIFORNIA 95817
(916)734-7024

HGA
1200 R Street, Suite 100
Sacramento, California 95811
Telephone 916.787.5100
CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
R1	RESUBMITTAL 01	10/27/2023

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

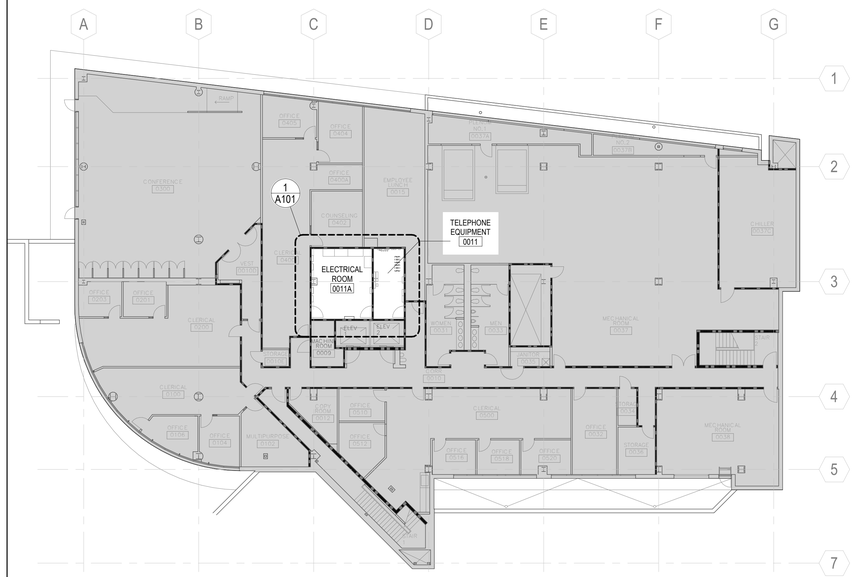
4150 V ST,
SACRAMENTO, CA 95817

ACCOUNT NO.: AC 9559630
BLM DING: PATIENT SUPPORT SERVICES BUILDING (PSSB) BLDG # 14
FLOORWING:
PROJECT TITLE: PSSB NETV2 UPGRADE
SHEET TITLE: GENERAL NOTES AND SYMBOLS

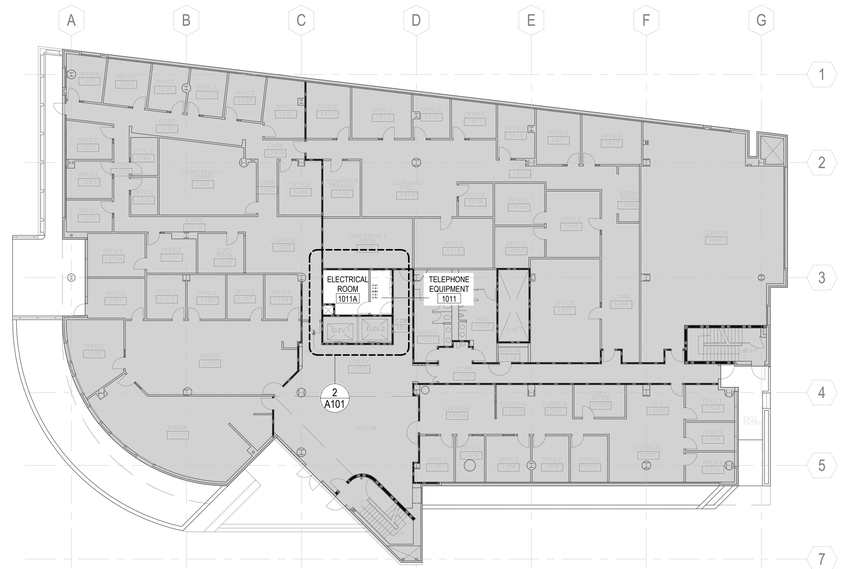
ARCH. / ENGR.	HGA	FD&C JOB NO.	9559630
UCDMC PROJECT MANAGER	KEN PICKETT	SCALE	AS SHOWN
DESIGNED BY		DATE	OCT. 27, 2023
DRAWN BY		HGA COMMISSION NO.	1500-159-01
		SHEET	A010
		OF	

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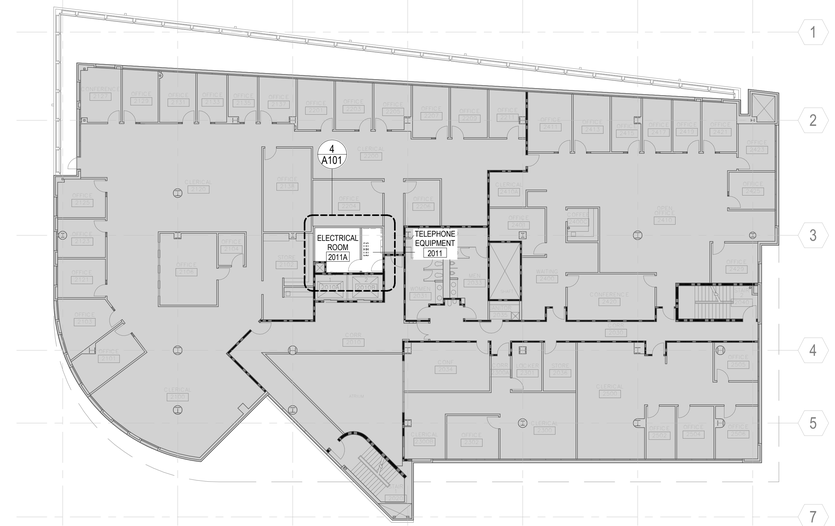
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Author



1 OVERALL DEMOLITION PLAN - LOWER LEVEL
1/16" = 1'-0"



2 OVERALL DEMOLITION PLAN - LEVEL 01
1/16" = 1'-0"



3 OVERALL DEMOLITION PLAN - LEVEL 02
1/16" = 1'-0"



4 OVERALL DEMOLITION PLAN - LEVEL 03
1/16" = 1'-0"

GENERAL NOTES - DEMOLITION PLAN

A. COORDINATE EXTENT OF DEMOLITION WITH REQUIREMENTS FOR NEW WORK.
B. REMOVE EXISTING CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, FLOOR FINISHES, WALLS, CEILINGS, WALL BASE, AND OTHER EXISTING CONSTRUCTION AS INDICATED OR REQUIRED FOR NEW WORK, UNLESS NOTED OTHERWISE.
C. REMOVE PARTITIONS COMPLETELY TO UNDERSIDE OF STRUCTURAL COMPONENTS ABOVE AND TO TOP OF FLOOR STRUCTURAL COMPONENTS AT BASE. DO NOT LEAVE SECTIONS OR MATERIALS OF WALL ASSEMBLIES IN PLACE.
D. AT SIDES OF WALLS, THAT ABUT WALLS TO REMAIN, CUT BACK AT LEAST 1 INCH (25 MM) BEYOND FACE OF FINISH OF WALL TO REMAIN TO FACILITATE SUBSEQUENT PATCHING AND NEW CONSTRUCTION.
E. COMPLETELY REMOVE FINISHES, SUBBASE MATERIALS AND STRUCTURAL FRAMING MATERIALS TO LINES INDICATED OR REQUIRED FOR NEW WORK.
F. EXISTING UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS ARE TO REMAIN, UNLESS INDICATED OTHERWISE.
G. RELOCATE EXISTING WORK SERVING OCCUPIED PORTIONS OF THE BUILDING AS REQUIRED TO MAINTAIN SERVICE TO OCCUPIED AREAS AND TO ACCOMMODATE NEW WORK.
H. REMOVE AND CAP PORTIONS OF EXISTING UTILITIES INDICATED TO BE DEMOLISHED AS REQUIRED TO ACCOMMODATE NEW WORK, INCLUDING SURFACE-MOUNTED ELECTRICAL CONDUIT, DEVICES AND LIGHT FIXTURES; RADIATORS, RADIATOR COVERS; PLUMBING FIXTURES AND ASSOCIATED PIPING.
I. REMOVE CEILINGS INDICATED TO BE DEMOLISHED INCLUDING INTEGRAL HANGERS, SUPPORTS, ANCHORS AND MATERIALS OR ASSEMBLIES ATTACHED TO CEILING CONSTRUCTION.
J. REMOVE SUSPENDED CEILINGS TO UNDERSIDE OF STRUCTURE OR ORIGINAL PLASTER OR GYPSUM BOARD CEILING SURFACES.
K. MAINTAIN EGRESS FROM EXISTING OCCUPIED SPACES AND SURROUNDING BUILDING AREAS AS INDICATED AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION. MAINTAIN EGRESS FROM EXISTING OCCUPIED SPACES AND SURROUNDING BUILDING AREAS AS INDICATED AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
L. PROVIDE AND MAINTAIN FIRE EXTINGUISHERS IN AREA OF WORK, IN ACCORDANCE WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
M. COORDINATE UTILITY INTERRUPTIONS WITH OWNER. PROVIDE AT LEAST 48 HOURS WRITTEN NOTICE TO OWNER BEFORE UTILITY INTERRUPTIONS OBTAIN OWNER'S WRITTEN APPROVAL OF INTERRUPTIONS BEFORE PROCEEDING.
N. COORDINATE OPERATIONS THAT MAY RESULT IN HIGH LEVELS OF NOISE AND VIBRATION, ODORS, OR OTHER DISRUPTIONS TO OCCUPANCY WITH OWNER. OBTAIN OWNER'S WRITTEN PERMISSION BEFORE PROCEEDING.
O. PROVIDE TEMPORARY BARRIERS AND ENCLOSURES AS REQUIRED TO PROTECT MATERIALS AND PEOPLE. PREVENT DUST, FUMES, AND ODORS FROM ENTERING OCCUPIED AREAS. MAINTAIN AND RELOCATE TEMPORARY BARRIERS AND ENCLOSURES AS REQUIRED BY THE PROGRESS OF THE WORK. REMOVE TEMPORARY BARRIERS AND ENCLOSURES AT COMPLETION OF WORK.
P. PRIOR TO STARTING DEMOLITION, VERIFY EXISTING CONDITIONS AND DIMENSIONS. COORDINATE EXTENT OF DEMOLITION WORK AND EXISTING CONSTRUCTION TO REMAIN WITH NEW WORK. NOTIFY ARCHITECT OF CONFLICTS OR DISCREPANCIES.
Q. REFER TO DISCIPLINE-SPECIFIC DRAWINGS FOR RELATED FIRE SUPPRESSION, PLUMBING, HEATING VENTILATION AND AIR CONDITIONING, ELECTRICAL, COMMUNICATIONS, AND ELECTRONIC SAFETY AND SECURITY SYSTEM DEMOLITION WORK.

DEMOLITION LEGEND

SEE G010 FOR ALL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS

(E) CONSTRUCTION TO REMAIN	
(E) ONE HOUR RATED	
(E) TWO HOUR RATED	
(E) CONSTRUCTION TO BE REMOVED	
DOOR TO BE DEMOLISHED	
AREA OF WORK	
EXISTING AREA, NOT IN CONTRACT	

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FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE, SUITE 3010
SACRAMENTO, CALIFORNIA 95817
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HGA
1200 R Street, Suite 100
Sacramento, California 95811
Telephone 916.787.5100
CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

4150 V ST,
SACRAMENTO, CA 95817

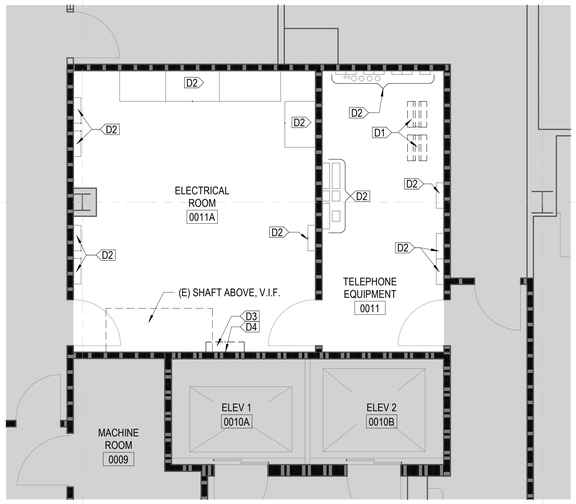
KEYPLAN

ACCOUNT NO.: AC 9559630
BUILDING: PATIENT SUPPORT SERVICES BUILDING (PSSB) BLDG # 14
FLOOR/WING:
PROJECT TITLE: PSSB NETV2 UPGRADE
SHEET TITLE: OVERALL DEMOLITION PLANS

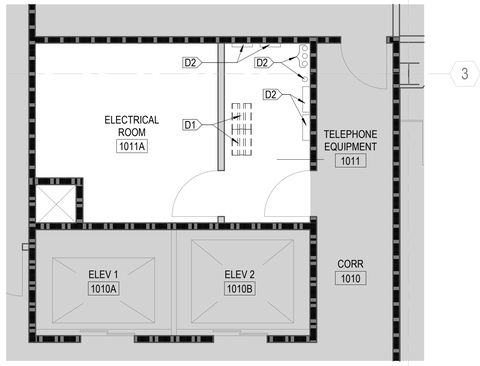
ARCH. / ENGR.: HGA	PDAC JOB NO.: 9559630		A100
UCDMC PROJECT MANAGER: KEN PICKETT	SCALE: AS SHOWN		
DESIGNED BY:	DATE: JUNE 16, 2023		
DRAWN BY:	HGA COMMISSION NO.: 1500-159-01	SHEET	OF

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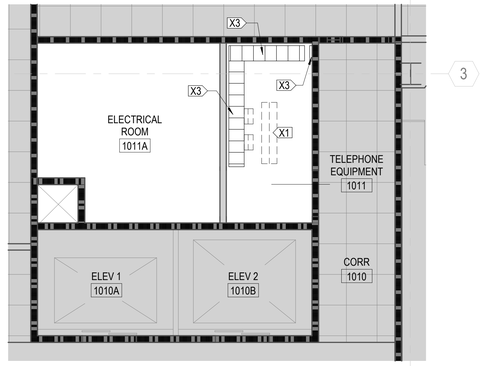
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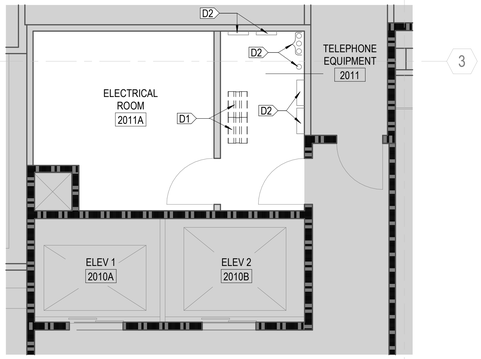
1 ENLARGED DEMOLITION PLAN - LOWER LEVEL
1/4" = 1'-0"



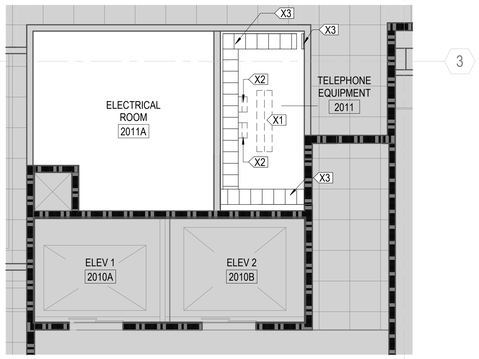
2 ENLARGED DEMOLITION PLAN - LEVEL 01
1/4" = 1'-0"



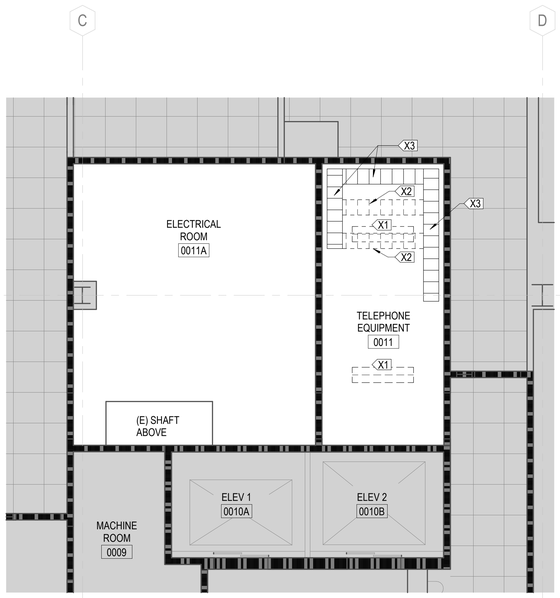
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1/4" = 1'-0"



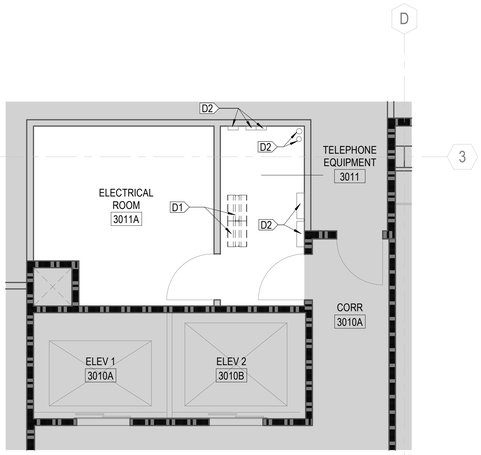
4 ENLARGED DEMOLITION PLAN - LEVEL 02
1/4" = 1'-0"



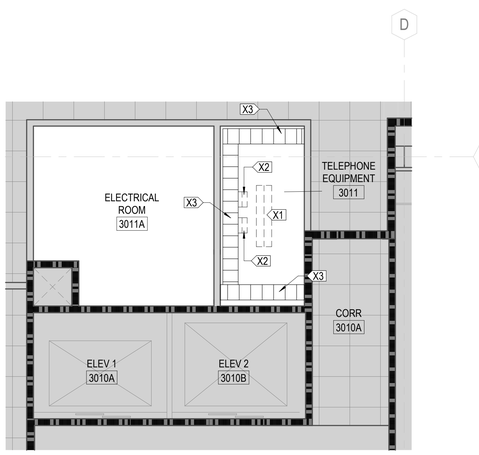
5 ENLARGED DEMOLITION REFLECTED CEILING PLAN - LEVEL 02
1/4" = 1'-0"



6 ENLARGED DEMOLITION REFLECTED CEILING PLAN - LOWER LEVEL
1/4" = 1'-0"



7 ENLARGED DEMOLITION PLAN - LEVEL 03
1/4" = 1'-0"



8 ENLARGED DEMOLITION REFLECTED CEILING PLAN - LEVEL 03
1/4" = 1'-0"

GENERAL NOTES - DEMOLITION PLAN

A. COORDINATE EXTENT OF DEMOLITION WITH REQUIREMENTS FOR NEW WORK.
B. REMOVE EXISTING CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, FLOOR FINISHES, WALLS, CEILINGS, WALL BASE, AND OTHER EXISTING CONSTRUCTION AS INDICATED OR REQUIRED FOR NEW WORK, UNLESS NOTED OTHERWISE.
C. REMOVE PARTITIONS COMPLETELY TO UNDERSIDE OF STRUCTURAL COMPONENTS ABOVE AND TO TOP OF FLOOR STRUCTURAL COMPONENTS AT BASE. DO NOT LEAVE SECTIONS OR MATERIALS OF WALL ASSEMBLIES IN PLACE.
D. AT SIDES OF WALLS, THAT ABUT WALLS TO REMAIN, CUT BACK AT LEAST 1 INCH (25 MM) BEYOND FACE OF FINISH OF WALL TO REMAIN TO FACILITATE SUBSEQUENT PATCHING AND NEW CONSTRUCTION.
E. COMPLETELY REMOVE FINISHES, SUBBASE MATERIALS AND STRUCTURAL FRAMING MATERIALS TO LINES INDICATED OR REQUIRED FOR NEW WORK.
F. EXISTING UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS ARE TO REMAIN, UNLESS INDICATED OTHERWISE.
G. RELOCATE EXISTING WORK SERVING OCCUPIED PORTIONS OF THE BUILDING AS REQUIRED TO MAINTAIN SERVICE TO OCCUPIED AREAS AND TO ACCOMMODATE NEW WORK.
H. REMOVE AND CAP PORTIONS OF EXISTING UTILITIES INDICATED TO BE DEMOLISHED AS REQUIRED TO ACCOMMODATE NEW WORK, INCLUDING SURFACE-MOUNTED ELECTRICAL CONDUIT, DEVICES AND LIGHT FIXTURES; RADIATORS, RADIATOR COVERS; PLUMBING FIXTURES AND ASSOCIATED PIPING.
I. REMOVE CEILINGS INDICATED TO BE DEMOLISHED INCLUDING INTEGRAL HANGERS, SUPPORTS, ANCHORS AND MATERIALS OR ASSEMBLIES ATTACHED TO CEILING CONSTRUCTION.
J. REMOVE SUSPENDED CEILINGS TO UNDERSIDE OF STRUCTURE OR ORIGINAL PLASTER OR GYPSUM BOARD CEILING SURFACES.
K. MAINTAIN EGRESS FROM EXISTING OCCUPIED SPACES AND SURROUNDING BUILDING AREAS AS INDICATED AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION. MAINTAIN EGRESS FROM EXISTING OCCUPIED SPACES AND SURROUNDING BUILDING AREAS AS INDICATED AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
L. PROVIDE AND MAINTAIN FIRE EXTINGUISHERS IN AREA OF WORK, IN ACCORDANCE WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
M. COORDINATE UTILITY INTERRUPTIONS WITH OWNER. PROVIDE AT LEAST 48 HOURS WRITTEN NOTICE TO OWNER BEFORE UTILITY INTERRUPTIONS OBTAIN OWNER'S WRITTEN APPROVAL OF INTERRUPTIONS BEFORE PROCEEDING.
N. COORDINATE OPERATIONS THAT MAY RESULT IN HIGH LEVELS OF NOISE AND VIBRATION, ODORS, OR OTHER DISRUPTIONS TO OCCUPANCY WITH OWNER. OBTAIN OWNER'S WRITTEN PERMISSION BEFORE PROCEEDING.
O. PROVIDE TEMPORARY BARRIERS AND ENCLOSURES AS REQUIRED TO PROTECT MATERIALS AND PEOPLE. PREVENT DUST, FUMES, AND ODORS FROM ENTERING OCCUPIED AREAS. MAINTAIN AND RELOCATE TEMPORARY BARRIERS AND ENCLOSURES AS REQUIRED BY THE PROGRESS OF THE WORK. REMOVE TEMPORARY BARRIERS AND ENCLOSURES AT COMPLETION OF WORK.
P. PRIOR TO STARTING DEMOLITION, VERIFY EXISTING CONDITIONS AND DIMENSIONS. COORDINATE EXTENT OF DEMOLITION WORK AND EXISTING CONSTRUCTION TO REMAIN WITH NEW WORK. NOTIFY ARCHITECT OF CONFLICTS OR DISCREPANCIES.
Q. REFER TO DISCIPLINE-SPECIFIC DRAWINGS FOR RELATED FIRE SUPPRESSION, PLUMBING, HEATING VENTILATION AND AIR CONDITIONING, ELECTRICAL, COMMUNICATIONS, AND ELECTRONIC SAFETY AND SECURITY SYSTEM DEMOLITION WORK.

DEMOLITION LEGEND

SEE G010 FOR ALL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS

(E) CONSTRUCTION TO REMAIN	
(E) ONE HOUR RATED	
(E) TWO HOUR RATED	
(E) CONSTRUCTION TO BE REMOVED	
DOOR TO BE DEMOLISHED	
AREA OF WORK	
EXISTING AREA, NOT IN CONTRACT	

KEYNOTES

#	DESCRIPTION
D1	(E) EQUIPMENT TO BE RELOCATED - SEE ELECTRICAL DRAWINGS
D2	(E) EQUIPMENT TO REMAIN - SEE ELECTRICAL DRAWINGS
D3	(E) CABINET TO BE RELOCATED - SEE A201 FOR NEW LOCATION
D4	REPAIR AND REFINISH FACE OF WALL WHERE (E) CABINET WAS LOCATED. MATCH ADJACENT WALL FINISH, FLATNESS, AND PAINT.
X1	REMOVE (E) LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
X2	REMOVE (E) EQUIPMENT - SEE ELECTRICAL DRAWINGS
X3	(E) EQUIPMENT TO REMAIN - SEE ELECTRICAL DRAWINGS

UC DAVIS HEALTH BUILDING DEPARTMENT
APPROVED
REVIEWED FOR CODE COMPLIANCE
The set of plans and specifications must be kept on the job site at all times and it is unlawful to make any changes or alterations to the approved set without written permission from the Building Department.
The approval of this plan and specifications SHALL NOT be held to permit or approve the violation of any University Policy or State Building Code.
BY: Paul R Menard AIA, CBO DATE: 1/10/2024
PROJECT #: UCDH-2023-0230
UC Davis Health
Sacramento, CA 95817
BUILDING OFFICIAL:

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
CAMPUS FIRE MARSHAL:

LICENSED ARCHITECT
COURTNEY MCLEOD-GREEN
C-32210
REN. 5-31-25
STATE OF CALIFORNIA
PROFESSIONAL OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE, SUITE 3010
SACRAMENTO, CALIFORNIA 95817
(916)734-7024

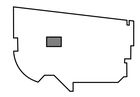
HGA
1200 R Street, Suite 100
Sacramento, California 95811
Telephone 916.787.5100
CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

4150 V ST,
SACRAMENTO, CA 95817


KEYPLAN

ACCOUNT NO.: AC 9559630
BUILDING: PATIENT SUPPORT SERVICES BUILDING (PSSB) BLDG # 14
FLOOR/WING:
PROJECT TITLE: PSSB NETV2 UPGRADE
SHEET TITLE: ENLARGED DEMOLITION PLANS & REFLECTED CEILING PLANS

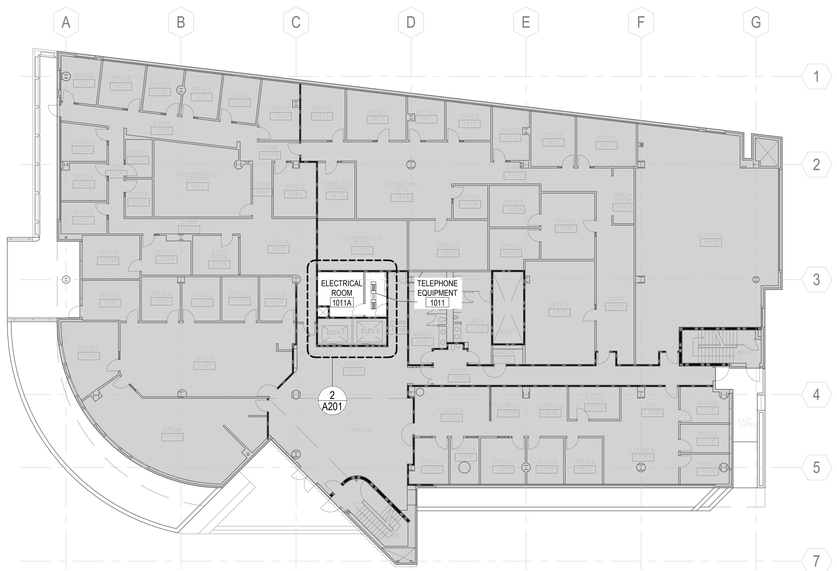
ARCH. / ENGR. HGA	FD&C JOB NO. 9559630		A101
UCDMC PROJECT MANAGER KEN PICKETT	SCALE AS SHOWN		
DESIGNED BY	DATE JUNE 16, 2023		
DRAWN BY	HGA COMMISSION NO. 1500-159-01	SHEET	OF

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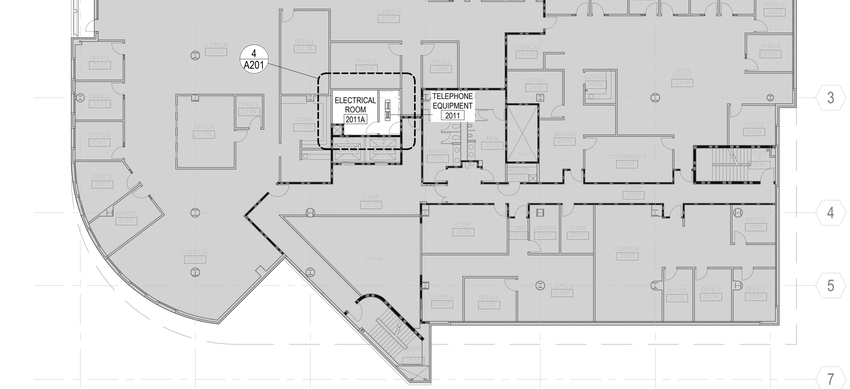
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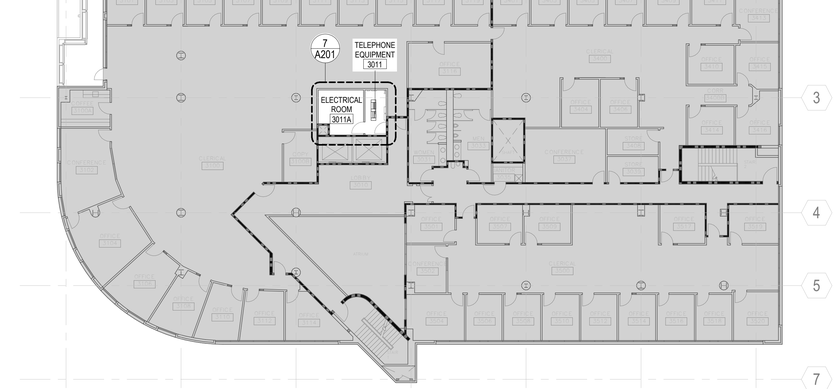
1 OVERALL FLOOR PLAN - LOWER LEVEL
1/16" = 1'-0"



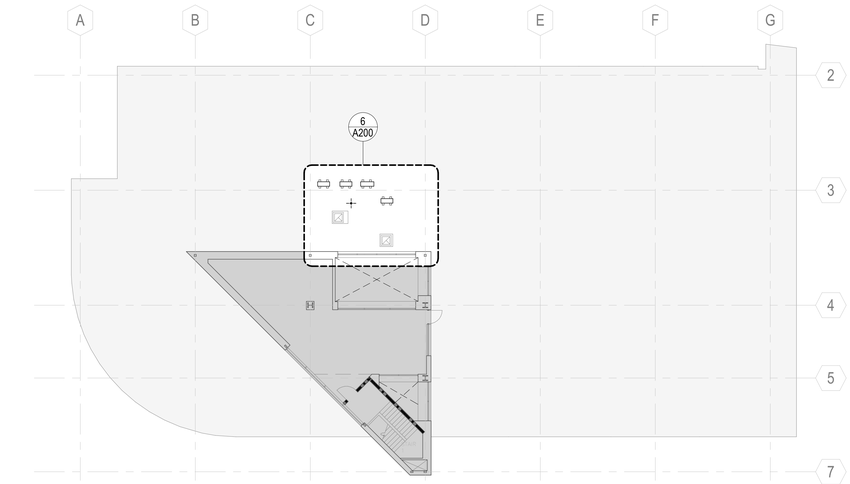
2 OVERALL FLOOR PLAN - LEVEL 01
1/16" = 1'-0"



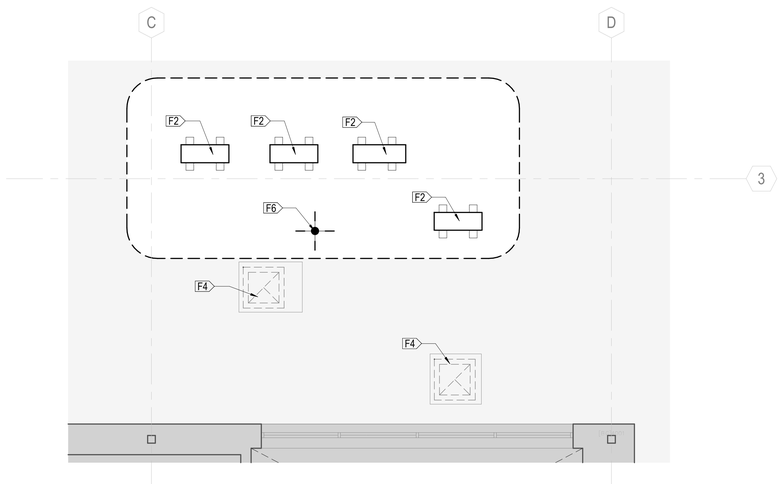
3 OVERALL FLOOR PLAN - LEVEL 02
1/16" = 1'-0"



4 OVERALL FLOOR PLAN - LEVEL 03
1/16" = 1'-0"



5 OVERALL ROOF PLAN
1/16" = 1'-0"



6 ENLARGED ROOF PLAN
1/4" = 1'-0"

GENERAL NOTES - FLOOR PLAN

A. PLAN DIMENSIONS ARE FROM FACE OF PARTITION TYPE AND DO NOT INCLUDE APPLIED FINISHES, UNLESS NOTED OTHERWISE. PLAN DIMENSIONS INDICATED AS "HOLD" OR "CLEAR" DIMENSIONS ARE FROM FACE OF APPLIED FINISH.
B. INSTALL WORK STRAIGHT, PLUMB, LEVEL, SQUARE, AND TRUE, IN PROPER ALIGNMENT.
C. FLATNESS: LEVEL FLOORS TO TRUE PLANE WITHIN 1/4 INCH (6 MM) IN 10'-0" (3 M) WHEN TESTED BY TEN FOOT (3 M) STRAIGHTEDGE PLACED ANYWHERE ON FLOOR IN ANY DIRECTION.
D. WHERE HANDRAILS, GRAB BARS, CABINETS, WALL-MOUNTED DOOR STOPS, OR OTHER WALL-HUNG ITEMS ARE ATTACHED TO PARTITIONS, INSTALL BACKER PLATES [OR WOOD BLOCKING] ACCURATELY POSITIONED AND FIRMLY SECURED TO METAL STUDS, WHETHER OR NOT SUCH BACKER PLATES OR BLOCKING ARE INDICATED ON DRAWINGS.
E. WHERE NEW WORK ABUTS, ALIGNS OR ADJOINS EXISTING MATERIALS, MAKE SMOOTH AND EVEN TRANSITION AND ELIMINATE EVIDENCE OF PATCHING AND REFINISHING. FINISH NEW WORK TO MATCH ADJACENT UNDISTURBED SURFACES, UNLESS NOTED OTHERWISE.
F. CLOSE AND PATCH HOLES AND OPENINGS IN EXISTING FLOOR, WALL AND CEILING WHICH EXIST OR RESULT FROM DEMOLITION OR ALTERATION WORK TO MATCH ADJACENT UNDISTURBED SURFACES.
G. PRIOR TO CONCEALMENT OF FIRE RESISTIVE MATERIALS BY OTHER WORK, PATCH AND REPAIR AREAS OF REMOVED OR DAMAGED APPLIED FIREPROOFING. COMPLETE PATCHING AND REPAIR TO MAINTAIN EXISTING FIRE-RESISTANCE DESIGN IN ACCORDANCE WITH FIREPROOFING MANUFACTURER'S WRITTEN INSTRUCTIONS FOR CONDITIONS OF EXPOSURE AND INTENDED USE. COORDINATE TESTING AND INSPECTION OF ASSEMBLIES AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
H. PROVIDE FIRESTOPPING OF PENETRATIONS AND VOIDS THROUGH FIRE-RATED WALL, FLOOR AND PARTITION ASSEMBLIES AND ROOF INCLUDING EMPTY OPENINGS AND OPENINGS CONTAINING CABLES, PIPES, DUCTS, CONDUIT AND OTHER ELEMENTS. ALL PENETRATION WORK SHALL BE IN ACCORDANCE WITH 714 CBC AND PERFORMED BY A QUALIFIED AND CERTIFIED FIRE STOP APPLICATOR. FMO SHALL APPROVE EACH UL IN ADVANCE OF APPLICATION. PENETRATING ITEMS SHALL BE RIGIDLY SUPPORTED ON BOTH SIDES OF EACH THROUGH PENETRATION.

CONSTRUCTION PLAN LEGEND

SEE G010 FOR ALL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS

(E) CONSTRUCTION TO REMAIN	
(E) ONE HOUR RATED	
(E) TWO HOUR RATED	
(N) CONSTRUCTION	
AREA OF WORK	
EXISTING AREA, NOT IN CONTRACT	
NEW PENETRATION; SEE KEYNOTES	

KEYNOTES

#	DESCRIPTION
F2	NEW MECHANICAL UNIT - SEE MECHANICAL DRAWINGS FOR MOUNTING DETAILS & CONNECTIONS
F4	(E) MECHANICAL EQUIPMENT TO REMAIN - SEE MECHANICAL DRAWINGS
F6	NEW CORED PENETRATION FOR CONDUIT(S) RUN, SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR QUANTITY, DETAILS, AND FIRESTOPPING

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APPROVED
REVIEWED FOR CODE COMPLIANCE
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BY: Paul R Menard AIA, CBO DATE: 1/10/2024
PROJECT #: UCDH-2023-0230
UC Davis Health
Sacramento, CA 95817
BUILDING OFFICIAL:

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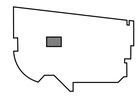
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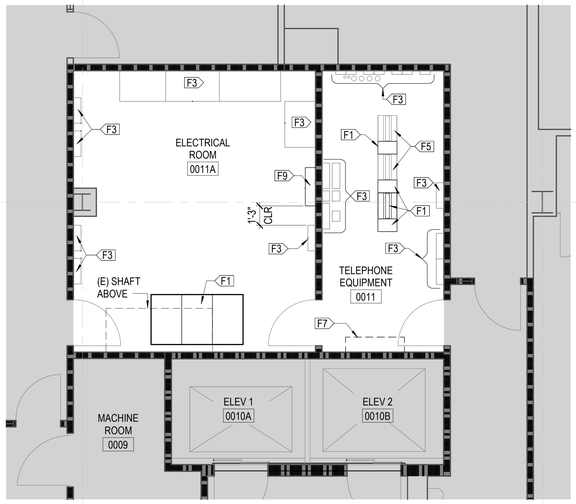
KEYPLAN

ACCOUNT NO.: AC 9559630
BUILDING: PATIENT SUPPORT SERVICES BUILDING (PSSB) BLDG # 14
FLOOR/WING:
PROJECT TITLE: PSSB NETV2 UPGRADE
SHEET TITLE: OVERALL FLOOR PLANS

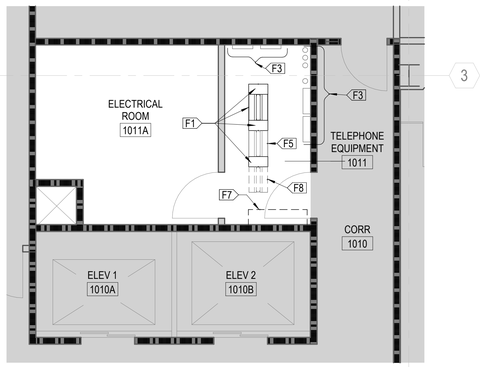
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UCDMC PROJECT MANAGER: KEN PICKETT	SCALE: AS SHOWN	
DESIGNED BY	DATE: JUNE 16, 2023	
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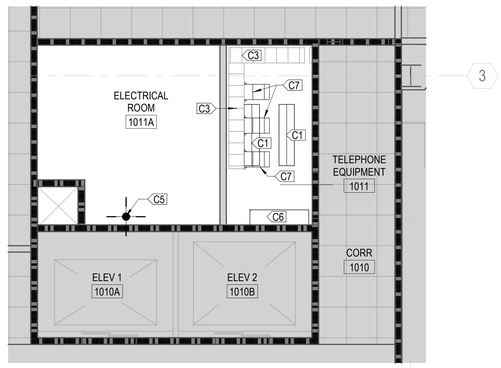
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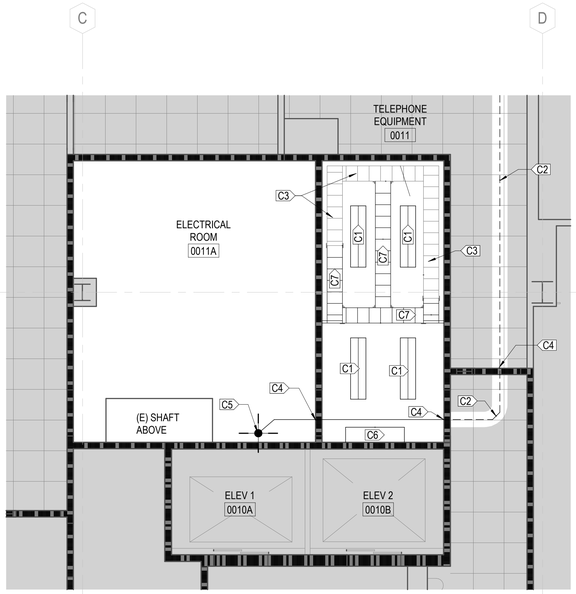
1 ENLARGED FLOOR PLAN - LOWER LEVEL
1/4" = 1'-0"



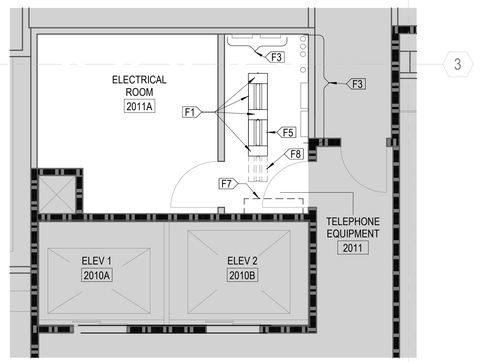
2 ENLARGED FLOOR PLAN - LEVEL 01
1/4" = 1'-0"



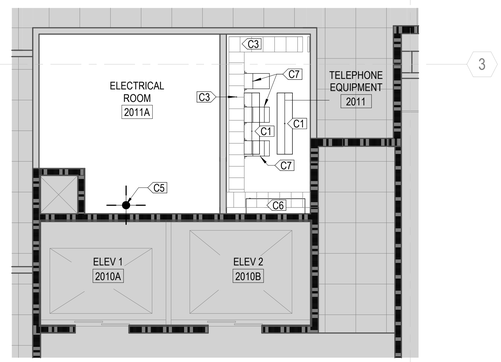
3 REFLECTED CEILING PLAN - LEVEL 01
1/4" = 1'-0"



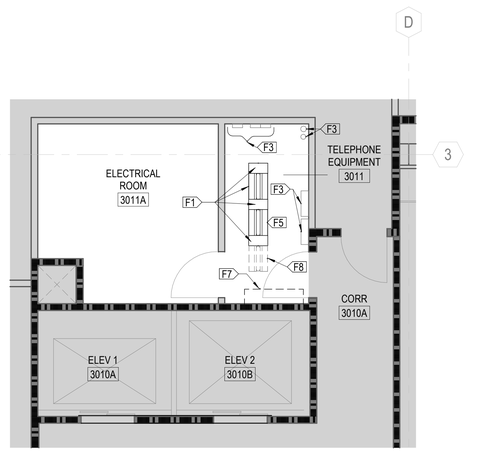
6 REFLECTED CEILING PLAN - LOWER LEVEL
1/4" = 1'-0"



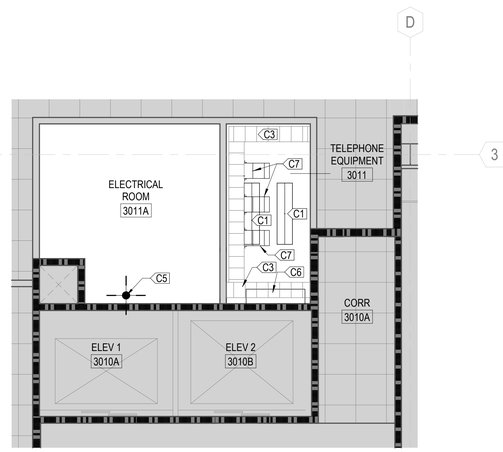
4 ENLARGED FLOOR PLAN - LEVEL 02
1/4" = 1'-0"



5 REFLECTED CEILING PLAN - LEVEL 02
1/4" = 1'-0"



7 ENLARGED FLOOR PLAN - LEVEL 03
1/4" = 1'-0"



8 REFLECTED CEILING PLAN - LEVEL 03
1/4" = 1'-0"

GENERAL NOTES - FLOOR PLAN

A. PLAN DIMENSIONS ARE FROM FACE OF PARTITION TYPE AND DO NOT INCLUDE APPLIED FINISHES, UNLESS NOTED OTHERWISE. PLAN DIMENSIONS INDICATED AS "HOLD" OR "CLEAR" DIMENSIONS ARE FROM FACE OF APPLIED FINISH.
B. INSTALL WORK STRAIGHT, PLUMB, LEVEL, SQUARE, AND TRUE, IN PROPER ALIGNMENT.
C. FLATNESS: LEVEL FLOORS TO TRUE PLANE WITHIN 1/4 INCH (6 MM) IN 10'-0" (3 M) WHEN TESTED BY TEN FOOT (3 M) STRAIGHTEDGE PLACED ANYWHERE ON FLOOR IN ANY DIRECTION.
D. WHERE HANDRAILS, GRAB BARS, CABINETS, WALL-MOUNTED DOOR STOPS, OR OTHER WALL-HUNG ITEMS ARE ATTACHED TO PARTITIONS, INSTALL BACKER PLATES [OR WOOD BLOCKING] ACCURATELY POSITIONED AND FIRMLY SECURED TO METAL STUDS, WHETHER OR NOT SUCH BACKER PLATES OR BLOCKING ARE INDICATED ON DRAWINGS.
E. WHERE NEW WORK ABUTS, ALIGNS OR ADJOINS EXISTING MATERIALS, MAKE SMOOTH AND EVEN TRANSITION AND ELIMINATE EVIDENCE OF PATCHING AND REFINISHING. FINISH NEW WORK TO MATCH ADJACENT UNDISTURBED SURFACES, UNLESS NOTED OTHERWISE.
F. CLOSE AND PATCH HOLES AND OPENINGS IN EXISTING FLOOR, WALL AND CEILING WHICH EXIST OR RESULT FROM DEMOLITION OR ALTERATION WORK TO MATCH ADJACENT UNDISTURBED SURFACES.
G. PRIOR TO CONCEALMENT OF FIRE RESISTIVE MATERIALS BY OTHER WORK, PATCH AND REPAIR AREAS OF REMOVED OR DAMAGED APPLIED FIREPROOFING. COMPLETE PATCHING AND REPAIR TO MAINTAIN EXISTING FIRE-RESISTANCE DESIGN IN ACCORDANCE WITH FIREPROOFING MANUFACTURER'S WRITTEN INSTRUCTIONS FOR CONDITIONS OF EXPOSURE AND INTENDED USE. COORDINATE TESTING AND INSPECTION OF ASSEMBLIES AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
H. PROVIDE FIRESTOPPING OF PENETRATIONS AND VOIDS THROUGH FIRE-RATED WALL, FLOOR AND PARTITION ASSEMBLIES AND ROOF INCLUDING EMPTY OPENINGS AND OPENINGS CONTAINING CABLES, PIPES, DUCTS, CONDUIT AND OTHER ELEMENTS. ALL PENETRATION WORK SHALL BE IN ACCORDANCE WITH 714 CBC AND PERFORMED BY A QUALIFIED AND CERTIFIED FIRE STOP APPLICATOR. FMO SHALL APPROVE EACH UL IN ADVANCE OF APPLICATION. PENETRATING ITEMS SHALL BE RIGIDLY SUPPORTED ON BOTH SIDES OF EACH THROUGH PENETRATION.

CONSTRUCTION PLAN LEGEND

SEE G010 FOR ALL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS

(E) CONSTRUCTION TO REMAIN	
(E) ONE HOUR RATED	
(E) TWO HOUR RATED	
(N) CONSTRUCTION	
AREA OF WORK	
EXISTING AREA, NOT IN CONTRACT	
NEW PENETRATION; SEE KEYNOTES	

KEYNOTES

#	DESCRIPTION
C1	NEW LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
C2	NEW CONDENSATE LINE ABOVE (E) CEILING, ROUTE TO MECH. RM 0077 - SEE MECHANICAL DRAWINGS
C3	(E) EQUIPMENT/CONDUIT RISER TO REMAIN - SEE ELECTRICAL DRAWINGS
C4	NEW WALL PENETRATION FOR CONDUIT(S) RUN - SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR QUANTITY, DETAILS, AND FIRESTOPPING, PATCH AND SEAL TO MATCH (E) FINISH OF WALL
C5	NEW CORED PENETRATION FOR CONDUIT(S) RUN - SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR QUANTITY, DETAILS, AND FIRESTOPPING
C6	NEW MECHANICAL UNIT AT 10'-0" AFF MAX. SEE MECHANICAL DRAWINGS
C7	NEW LADDER RACK AND BRACKETS - SEE ELECTRICAL DRAWINGS FOR DETAILS
F1	NEW ELECTRICAL EQUIPMENT - SEE ELECTRICAL DRAWINGS FOR MOUNTING & DETAILS
F3	(E) EQUIPMENT/CONDUIT RISER TO REMAIN - SEE ELECTRICAL DRAWINGS
F5	(E) EQUIPMENT RELOCATED - SEE ELECTRICAL FOR ANCHORAGE DETAILS
F7	NEW MECHANICAL UNIT MOUNTED ABOVE - SEE MECHANICAL DRAWINGS FOR DETAILS
F8	(E) EQUIPMENT RELOCATED TEMPORARILY - SEE ELECTRICAL DRAWINGS
F9	(E) CABINET RELOCATED, MATCH PREVIOUS MOUNTING HEIGHT.

UC DAVIS HEALTH BUILDING DEPARTMENT

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REVIEWED FOR CODE COMPLIANCE

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The approval of this plan and specifications SHALL NOT be held to permit or approve the violation of any University Policy or State Building Code.

BY: Paul R Menard AIA, CBO DATE: 1/10/2024

PROJECT #: UCDH-2023-0230

UC Davis Health
Sacramento, CA 95817

BUILDING OFFICIAL:

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
Will Orillard
Approved
On behalf of Office of the State Fire Marshal
Fire Clearance Inspection Unit
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

CAMPUS FIRE MARSHAL:

LICENSED ARCHITECT
COURTNEY MCLEOD-GAVEN
C-32210
REN. 5-31-25
STATE OF CALIFORNIA

PROFESSIONAL OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE, SUITE 3010
SACRAMENTO, CALIFORNIA 95817
(916)734-7024

HGA
1200 R Street, Suite 100
Sacramento, California 95811
Telephone 916.787.5100

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

4150 V ST,
SACRAMENTO, CA 95817

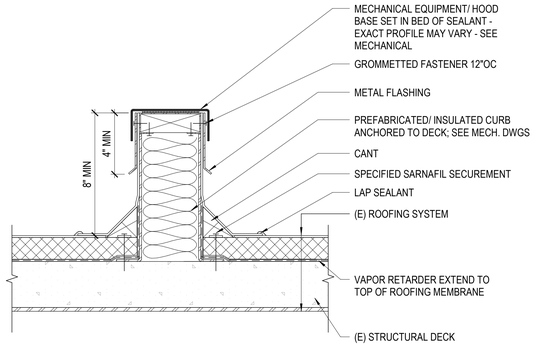
KEYPLAN

ACCOUNT NO.: AC 9559630
BUILDING: PATIENT SUPPORT SERVICES BUILDING (PSSB) BLDG # 14
PROJECT TITLE: PSSB NETV2 UPGRADE
SHEET TITLE: ENLARGED FLOOR PLANS & REFLECTED CEILING PLANS

ARCH. / ENGR.: HGA		FGAC JOB NO.: 9559630	A201
UCDMC PROJECT MANAGER: KEN PICKETT		SCALE: AS SHOWN	
DESIGNED BY		DATE: JUNE 16, 2023	
DRAWN BY		HGA COMMISSION NO.: 1500-159-01	SHEET / OF

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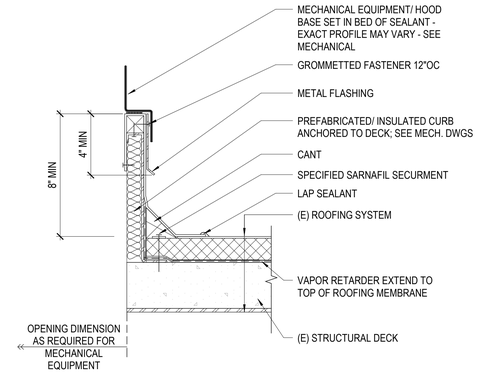
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NOTE: THIS DETAIL ILLUSTRATES GENERAL INFORMATION ONLY REGARDING ROOFING MEMBRANE AND METAL FLASHING INSTALLATION. SEE MECHANICAL AND ELECTRICAL FOR FURTHER DETAILS AND INFORMATION, INCLUDING FIRE STOP DETAILS. FIRESTOPPING MUST BE INSTALLED IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

1 PREFABRICATED, DECK-MOUNTED MECH EQUIP CURB

3" = 1'-0"



NOTE: THIS DETAIL ILLUSTRATES GENERAL INFORMATION ONLY REGARDING ROOFING MEMBRANE AND METAL FLASHING INSTALLATION. SEE MECHANICAL AND ELECTRICAL FOR FURTHER DETAILS AND INFORMATION, INCLUDING FIRE STOP DETAILS. FIRESTOPPING MUST BE INSTALLED IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

2 PREFABRICATED, DECK-MOUNTED MECH EQUIP OR HOOD CURB

3" = 1'-0"

UC DAVIS HEALTH BUILDING DEPARTMENT

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CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

4150 V ST,
SACRAMENTO, CA 95817

ACCOUNT NO.: **AC 9559630**

BUILDING: **PATIENT SUPPORT SERVICES BUILDING (PSSB)BLDG # 14**

FLOOR/WING:

PROJECT TITLE: **PSSB NETV2 UPGRADE**

SHEET TITLE: **TYPICAL ROOF DETAILS**

ARCH. / ENGR.: HGA	FD&C JOB NO.: 9559630	A400
UCDMC PROJECT MANAGER: KEN PICKETT	SCALE: AS SHOWN	
DESIGNED BY	DATE: JUNE 16, 2023	
DRAWN BY	HGA COMMISSION NO.: 1500-159-01	SHEET / OF

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GENERAL NOTES

1. CONTRACTOR SHALL VISIT SITE TO REVIEW SCOPE OF WORK PRIOR TO SUBMISSION OF BID.
2. DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED TO DETERMINE EXACT PLACEMENT OF NEW WORK. VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD BEFORE PROCEEDING WITH WORK. EXACT PLACEMENT SHALL BE COORDINATED BASED ON ACTUAL FIELD MEASUREMENTS AND CONDITIONS.
3. COORDINATE REQUIREMENTS OF NEW WORK WITH OTHER TRADES AND PROVIDE ALL NECESSARY APPURTENANCES AND INCIDENTAL LABOR, INCLUDING PARTS AND ACCESSORIES, CONNECTIONS. SYSTEM START-UP AND TESTING AS REQUIRED TO ACHIEVE A COMPLETE FULLY FUNCTIONING INSTALLATION READY FOR OPERATION.
4. PRIOR TO FABRICATION, CONTRACTOR SHALL PREPARE FULLY COORDINATED DETAILED SHOP DRAWINGS (DRAWN TO SCALE) OF ALL PROJECT WORK AND SUBMIT TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL. SHOP DRAWINGS SHALL INCLUDE DETAILED PLAN VIEW LAYOUTS (1/4" SCALE MINIMUM) SHOWING EQUIPMENT, DUCTWORK AND PIPING WITH DUCT AND PIPE SIZES AND ELEVATIONS ABOVE FINISHED FLOOR. COORDINATE WORK WITH OTHER TRADES AS REQUIRED TO ACHIEVE INTENDED ARCHITECTURAL ELEVATIONS.
5. AVOID ROUTING PIPING ABOVE ELECTRICAL EQUIPMENT AND CABLE TRAYS. WHERE INSTALLATION OF PIPING ABOVE ELECTRICAL EQUIPMENT OR CABLE TRAYS IS UNAVOIDABLE, INSTALL PIPING WITH A MINIMUM NUMBER OF JOINTS. JOINTS, FITTINGS, VALVES OR SIMILAR COMPONENTS SHALL BE LOCATED A MINIMUM OF 36 INCHES FROM EACH SIDE OF EQUIPMENT OR TRAY. PROVIDE DRIP PAN(S) WITH MOISTURE DETECTION ABOVE CRITICAL EQUIPMENT.
6. ALL WORK SHALL COMPLY WITH THE CALIFORNIA CODE OF REGULATIONS, TITLE 24 (2022 EDITION), INCLUDING THE CALIFORNIA BUILDING CODE (CBC), CALIFORNIA MECHANICAL CODE (CMC), CALIFORNIA PLUMBING CODE (CPC), CALIFORNIA FIRE CODE (CFC), CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA ENERGY CODE AND CALIFORNIA ELECTRICAL CODE.
7. ALL WORK MUST BE PERFORMED IN ACCORDANCE WITH THE GENERAL CONDITIONS OF THE PRIME CONTRACT.
8. CONSTRUCTION SHALL BE ORGANIZED IN SUCH A MANNER AS TO MINIMIZE DISRUPTION TO FACILITY OPERATIONS AND DISTURBANCE OF OCCUPANTS. NOTIFY OWNER'S REPRESENTATIVE A MINIMUM OF 48 HOURS IN ADVANCE OF ANY REQUIRED SYSTEM SHUTDOWNS, DISTURBANCE OF OR ENCROACHMENT INTO OCCUPIED AREAS. PERFORM ACTIVITIES SUCH AS MASONRY DRILLING AND SAWCUTTING ONLY DURING DESIGNATED HOURS; DAMPEN NOISE AND VIBRATION TRANSMITTED TO OCCUPIED AREAS TO THE GREATEST EXTENT POSSIBLE. MAINTAIN EGRESS FROM OCCUPIED AREAS AT ALL TIMES. DO NOT OBSTRUCT OR OTHERWISE IMPEDE PEDESTRIAN OR VEHICULAR TRAFFICWAYS CRITICAL TO THE ONGOING OPERATION OF THE FACILITY.
9. CONTRACTOR SHALL COMPLY WITH THE FACILITY'S POLICIES AND PROCEDURES REGARDING CONTAINMENT /ISOLATION OF CONSTRUCTION AREAS AND ACTIVITIES THROUGHOUT CONSTRUCTION OF THE PROJECT. PROVIDE DUST PROTECTION, CONSTRUCTION BARRIERS, AND /OR FILTRATION ON HVAC SYSTEM INLETS AS REQUIRED TO PROTECT OCCUPIED AREAS AND AFFECTED HVAC SYSTEMS FROM CONTAMINATION BY AIRBORNE POLLUTANTS (INCLUDING DUST, SMOKE, FUMES AND ODORS) GENERATED BY CONSTRUCTION ACTIVITIES.
10. MEANS, METHODS AND TIMING OF WORK SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER'S REPRESENTATIVE INSOFAR AS THEY AFFECT FACILITY OPERATIONS. MEANS AND METHODS ARE STILL SUBJECT TO ACCEPTANCE BY THE AUTHORITY HAVING JURISDICTION AND MUST COMPLY WITH DESIGN AND CODE INTENT.
11. PIPE, DUCT AND CONDUIT GRAVITY SUPPORTS AND BRACING: NEW PIPES, DUCTS, AND CONDUIT SHALL BE SUPPORTED AND BRACED PER THE REQUIREMENTS OF THE 2022 CBC, CMC AND CPC.
12. NOT USED. (1)
13. THE EQUIPMENT MANUFACTURERS AND MODELS SPECIFIED ON THE DRAWINGS SERVE AS THE BASIS OF DESIGN. NO SUBSTITUTIONS OF ANY EQUIPMENT ARE ALLOWED WITHOUT FIRST OBTAINING APPROVAL FROM THE OWNER'S REPRESENTATIVE. ANY PROPOSED SUBSTITUTIONS MUST BE FROM ONE OF THE ALTERNATE MANUFACTURERS LISTED IN THE SPECIFICATIONS; MUST MATCH THE PHYSICAL CONFIGURATION AND REQUIREMENTS OF THE SPECIFIED MODEL INCLUDING OVERALL DIMENSIONS, INLET AND OUTLET CONFIGURATION, REQUIRED CLEARANCES, ACCESS AND POWER REQUIREMENTS; AND MUST MEET SEISMIC CERTIFICATION REQUIREMENTS WHERE MANDATED BY THE AUTHORITY HAVING JURISDICTION. PERFORMANCE FEATURES AND CONSTRUCTION OF ANY PROPOSED SUBSTITUTION SHALL MEET OR EXCEED THOSE SPECIFIED ON THE DRAWINGS AND IN THE SPECIFICATIONS. STRUCTURAL ENGINEERING CALCULATIONS FOR EQUIPMENT SUPPORT AND ANCHORAGE SHALL BE SUBMITTED BY THE CONTRACTOR AT THE TIME OF SUBMITTAL OF ANY SUBSTITUTION FOR REVIEW BY THE ARCHITECT, MECHANICAL AND STRUCTURAL ENGINEERS OF RECORD. SUBSTITUTIONS REQUIRING CHANGES TO THE CONTRACT DOCUMENTS BY MEANS OF A CHANGE ORDER ARE NOT ALLOWED.
14. WHERE EXISTING UTILITIES NOT SHOWN ON THE DRAWINGS ARE ENCOUNTERED, NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY. SUPPORT AND PROTECT UTILITIES UNTIL PROVISIONS CAN BE MADE FOR RELOCATION OR OTHER SOLUTION.
15. CUTTING AND DEMOLITION WORK SHALL NOT COMPROMISE STRUCTURAL INTEGRITY OF THE EXISTING CONSTRUCTION OR DAMAGE PORTIONS OF EXISTING WORK TO REMAIN.
16. OWNER RESERVES THE RIGHT TO RETAIN ALL MATERIALS AND EQUIPMENT REMOVED FROM THE PROJECT. ANY ITEMS OR MATERIALS NOT DESIRED BY THE OWNER SHALL BE REMOVED FROM THE OWNER'S PROPERTY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
17. COORDINATE METHOD, ROUTE AND TIMING OF MATERIAL AND DEBRIS REMOVAL WITH OWNER'S REPRESENTATIVE PRIOR TO ANY REMOVAL.
18. PATCH AND REPAIR ANY DAMAGE TO WALLS, FLOORS, CEILINGS, CABINETS, HARDWARE, WINDOWS, FIXTURES, ETC. RESULTING FROM PROJECT WORK. REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR DRYWALL AND FINISH PATCHWORK AND REPAIR REQUIREMENTS. MATCH EXISTING FINISHES AS CLOSELY AS POSSIBLE UNLESS NOTED OTHERWISE. PATCHES AND REPAIRS SHALL RESTORE FINISH TO "LIKE NEW" CONDITION.
19. SEAL AND PROTECT ALL PIPE, DUCT AND CONDUIT PENETRATIONS OF FLOORS, WALLS, CEILINGS AND ROOF. METHODS AND MATERIALS USED FOR TREATMENT OF PENETRATIONS THROUGH RATED ASSEMBLIES SHALL BE U.L. AND FIRE MARSHAL APPROVED, IN OR ON BUILDINGS WHERE OPENINGS HAVE BEEN MADE IN WALLS, FLOORS, OR CEILINGS FOR THE PASSAGE OF PIPES, SUCH OPENINGS SHALL BE CLOSED AND PROTECTED BY THE INSTALLATION OF APPROVED METAL COLLARS [I.E., ESCUTCHEON OR SHEET METAL FLASHING] SECURELY FASTENED TO THE ADJOINING STRUCTURE ALL IN ACCORDANCE WITH CMC 316.11. EXCLUDED FROM COLLARS INSTALLATION ARE: TESTED AND LISTED ENGINEERED FIRE-RESISTANCE-RATED WALL / FLOOR ASSEMBLIES AND SMOKE MANAGEMENT SYSTEMS I.E.; FIRE WALLS - FIRE BARRIERS - FIRE PARTITIONS - FIRE RATED TENANT SEPARATIONS - FIRE RATED HORIZONTAL AND WALL ASSEMBLIES - SMOKE BARRIERS - SOUND-RATED CONSTRUCTION. EXCLUDED FROM COLLARS INSTALLATION ARE: TESTED AND LISTED ENGINEERED FIRE-RESISTANCE-RATED WALL / FLOOR ASSEMBLIES.
20. ALL LOCATIONS FOR CORING OF CONCRETE SLABS, DRILLING FOR ANCHOR BOLTS, ETC. SHALL BE COORDINATED WITH AND APPROVED BY A CALIFORNIA LICENSED STRUCTURAL ENGINEER PRIOR TO COMMENCING WORK.
21. ALL ROOFING AND FLASHING ELEMENTS SHOWN ON THESE DRAWINGS ARE FOR REFERENCE ONLY. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR ALL ROOFING AND FLASHING DETAILS.
22. CONTRACTOR MAY SUBSTITUTE NEW ROUND OR RECTANGULAR DUCT SHOWN ON PLANS WITH ROUND OR RECTANGULAR DUCT OF EQUIVALENT OR GREATER CROSS-SECTIONAL AREA. CONTRACTOR TO INDICATE ON SHOP DRAWING SUBMITTAL WHERE SUCH SUBSTITUTIONS OCCUR. CONTRACTOR TO BE RESPONSIBLE FOR RE-ENGINEERING ALL DUCTWORK SUPPORTS FOR SUBSTITUTED DUCTWORK.
23. CONTRACTOR SHALL COORDINATE FINAL THERMOSTAT LOCATIONS WITH OTHER TRADES, INCLUDING ARCHITECTURAL, ELECTRICAL AND FIRE ALARM.
24. CONTRACTOR SHALL LABEL ALL VALVES SEQUENTIALLY USING THE EXISTING FACILITY TAG INVENTORY LIST. USE METAL TAGS. TAGS SHALL TO BE 2" DIAMETER AND FABRICATED OF BRASS OR STAINLESS STEEL. TAGS SHALL BE ATTACHED WITH JACK CHAIN MADE FROM THE SAME MATERIAL.
25. ALL NEW CONDENSATE PIPING SHALL BE SLOPED UNIFORMLY BETWEEN THE UPPER TERMINAL OF THE CONDENSATE SYSTEM NOT LESS THAN ¼" PER FOOT, UNLESS OTHERWISE NOTED. WHERE SLOPES LESS THAN ½" PER FOOT ARE INDICATED, THE NEW PIPING SHALL BE SLOPED TO ACHIEVE THE MAXIMUM SLOPE POSSIBLE, BUT NOT LESS THAN INDICATED OR ALLOWED BY CODE.

SHEET INDEX

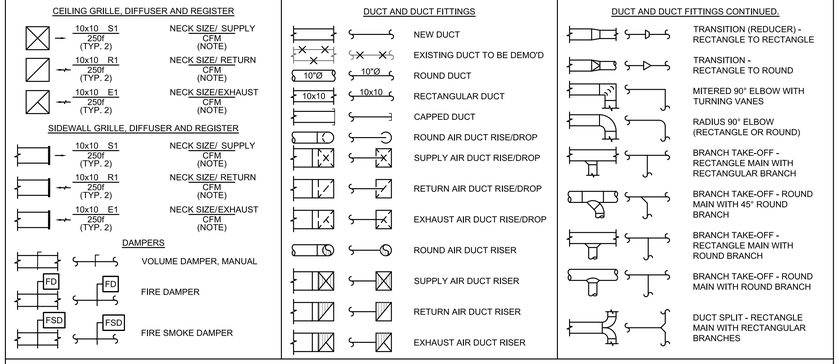
MP001	MECHANICAL AND PLUMBING LEGEND, NOTES AND SHEET INDEX
MP002	MECHANICAL / PLUMBING SCHEDULES & CONTROLS
MP003	TITLE 24 DOCUMENTATION
MP004	TITLE 24 DOCUMENTATION
MP200	OVERALL LOWER LEVEL THROUGH LEVEL 03 MECHANICAL / PLUMBING PLANS
MP201	ENLARGED LOWER LEVEL THROUGH LEVEL 03 MECHANICAL / PLUMBING PLANS
MP301	ROOF MECHANICAL / PLUMBING PLAN
MP601	MECHANICAL / PLUMBING DETAILS
MP602	MECHANICAL / PLUMBING DETAILS
MP603	MECHANICAL / PLUMBING DETAILS

MECHANICAL / PLUMBING LEGEND

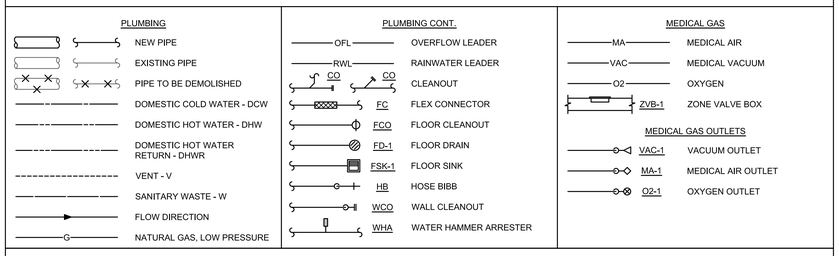
ABBREVIATIONS

AC	ABOVE CEILING	DTR	DOWN THROUGH ROOF	ICW	INDUSTRIAL COLD WATER	SCD	SECONDARY CONDENSATE DRAIN
AD	AREA DRAIN	DWG	DRAWING	ID	INSIDE DIAMETER	SCH	SCHEDULE
AFF	ABOVE FINISHED FLOOR			IW	INDIRECT WASTE	SD	STORM DRAIN
AHU	AIR HANDLING UNIT	(E)	EXISTING			SH	SHOWER
AP	ACCESS PANEL	(ER)	EXISTING RELOCATED	LAV	LAVATORY	SHT	SHEET
ARCH	ARCHITECT	EA	EXHAUST AIR	LBS	POUNDS	SK	SINK
AV	ACID VENT	EF	EXHAUST FAN	LG	LABORATORY GAS	SM	SHEET METAL
AVTR	ACID VENT THRU ROOF	EWH	ELECTRIC WATER HEATER	LP	LOW PRESSURE	SOV	SHUT OFF VALVE
AW	ACID WASTE	EWT	ENTERING WATER TEMPERATURE	MAX	MAXIMUM	SQ FT	SQUARE FOOT
BF	BELOW FLOOR	FA	FROM ABOVE	MFR	MANUFACTURER	SS	SANITARY SEWER
BG	BELOW GRADE	FB	FROM BELOW	MPG	MEDIUM PRESSURE NATURAL GAS	SST	STAINLESS STEEL
BFP	BACKFLOW PREVENTER	FC	FLEXIBLE CONNECTION	MIN	MINIMUM	STD	STANDARD
BOD	BOTTOM OF DUCT	FCO	FLOOR CLEAN OUT	MISC	MISCELLANEOUS	TSTAT	THERMOSTAT
BOP	BOTTOM OF PIPE	FCU	FAN COIL UNIT			TH	THERMOMETER
BV	BALANCING VALVE	FD	FLOOR DRAIN	(N)	NEW	TYP	TYPICAL
CAP	CAPACITY	FLR	FLOOR	NC	NORMALLY CLOSED	UF	UNDER FLOOR
CAV	CONSTANT AIR VOLUME	FPM	FEET PER MINUTE	NIC	NOT IN CONTRACT	UG	UNDERGROUND
CD	CONDENSATE DRAIN	FSD	FIRE SMOKE DAMPER	NO	NORMALLY OPEN	UON	UNLESS OTHERWISE NOTED
CFH	CUBIC FEET PER HOUR	FSH	FIRE SPRINKLER HEAD	NTS	NOT TO SCALE	UR	URINAL
CFM	CUBIC FEET PER MINUTE	FSK	FLOOR SINK			US	UNDER SLAB
CHWP	CHILLED WATER PUMP	FP	FIRE PROTECTION	OA	OUTSIDE AIR	UTR	UP THROUGH ROOF
CHWR	CHILLED WATER RETURN	FSP	FIRE SPRINKLER PIPE	OC	ON CENTER	V	SANITARY VENT
CHWS	CHILLED WATER SUPPLY	FT	FEET	OFD	OVERFLOW DRAIN	VAV	VARIABLE AIR VOLUME
CKV	CHECK VALVE			OFL	OVERFLOW LEADER	VD	VOLUME DAMPER
CLG	CEILING	G	NATURAL GAS			VFD	VARIABLE FREQUENCY DRIVE
CU	CONDENSING UNIT	GCO	GRADE CLEAN OUT	PG	PRESSURE GAUGE	VR	VENT RISER
CWP	CONDENSER WATER PUMP	GLV	GLOBE VALVE	PLBG	PLUMBING	VTR	VENT THRU ROOF
CWR	CONDENSER WATER RETURN	GPH	GALLONS PER HOUR	POC	POINT OF CONNECTION		
CWS	CONDENSER WATER SUPPLY	GPM	GALLONS PER MINUTE	POD	POINT OF DISCONNECT	W/	WITH
CO	CLEAN OUT	GV	GATE VALVE	PRV	PRESSURE REDUCING VALVE	W/O	WITHOUT
CSK	CLINIC SINK			PS	PRESSURE SWITCH	W	SANITARY WASTE
CV	CONTROL VALVE	HB	HOSE BIBB	PSI	POUNDS PER SQUARE INCH	WC	WATER CLOSET
		HC	HEATING COIL	PSIG	POUNDS PER SQUARE INCH GAUGE	WCO	WALL CLEAN OUT
D	DRAIN	HRP	HEAT RECOVERY PUMP			WD	WASTE DROP
DCW	DOMESTIC COLD WATER	HRR	HEAT RECOVERY RETURN	RD	ROOF DRAIN	WH	WATER HEATER
DET	DETAIL	HRS	HEAT RECOVERY SUPPLY	RL	REFRIGERANT LIQUID	WHA	WATER HAMMER ARRESTER
DF	DRINKING FOUNTAIN	HVAC	HEATING VENTILATION & AIR CONDITIONING	RM	ROOM		
DHW	DOMESTIC HOT WATER	HWP	HEATING WATER PUMP	RO	REVERSE OSMOSIS WATER		
DHWR	DOMESTIC HOT WATER RETURN	HWR	HEATING WATER RETURN	RS	REFRIGERANT SUCTION		
DI	DEIONIZED WATER	HWS	HEATING WATER SUPPLY	RWL	RAINWATER LEADER		
DN	DOWN	HPG	HIGH PRESSURE NATURAL GAS				
DSD	DUCT SMOKE DETECTOR						

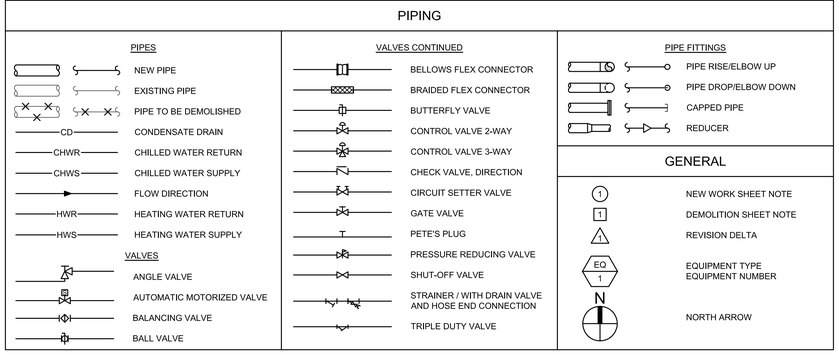
DUCTWORK



PLUMBING



PIPING



GENERAL

UC DAVIS HEALTH BUILDING DEPARTMENT

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Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

CAMPUS FIRE MARSHAL:

R&A ENGINEERING SOLUTIONS Inc
Mechanical Consultants
601 University Avenue, Suite 255, Sacramento, CA 95825
Tel. (916) 920-5965 Fax. (916) 920-9239
R&A Job Number: HGA23322

PROFESSIONAL OF RECORD:

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HGA
1200 R Street, Suite 100
Sacramento, California 95811
Telephone 916.787.5100

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
1	RESUBMITTAL 01	10/27/2023

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

4150 V ST,
SACRAMENTO, CA 95817

KEYPLAN

ACCOUNT NO.: AC 9559630
BUILDING: PATIENT SUPPORT SERVICES BUILDING (PSSB)
FLOOR/WING:
PROJECT TITLE: PSSB NETV2 UPGRADE
SHEET TITLE: MECHANICAL AND PLUMBING LEGEND, NOTES AND SHEET INDEX

ARCH. / ENGR. HGA		FD&C JOB NO. 9559630	MP001
UCDMC PROJECT MANAGER KEN PICKETT		SCALE AS SHOWN	
DESIGNED BY ANJ		DATE OCT. 27, 2023	
DRAWN BY ADK	HGA COMMISSION NO. 1500-159-01	SHEET	OF

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Allowable Refrigerant Calculations			
Compartment	**TELE. EQUIP. 0011**		
System Model: TPKAOAO361KA70A (208-230/1/60) w/TRUZA0361KA70			
	Length	**Width**	**Height**
TELE. EQUIP. 0011 Dimensions (Inches)	220.3	96	192.00
Smallest Total Internal Vol. 0011 (EQUIP.)	2350		
Refrigerant Type:	R410A		
Refrigerant Classification:	**A1**		
Per building code, amount of refrigerant (R410A) allowed per occupied space is 24.0 lbs. per 1000 cu ft	24.0		
X = amount of refrigerant allowed (before leak detection system is not required) for this TELE. EQUIP. RM.:	X / 2350	=	24 / 1000
X = (Max charge w/o leak detector req'd.)	**56.4**		
Amount of charge in system:	**10.6**		
Refrigerant Detector Required:	**NO**		

NOTE:
THE REFRIGERANT PIPING SYSTEM SERVING THE TELEPHONE EQUIPMENT ROOM IN BASEMENT, SERVE SPACE WHICH IS CONSIDERED UNOCCUPIED SPACE. THE REFRIGERANT PIPING FOR THIS SYSTEM WILL BE ROUTED DOWN THROUGH THE BUILDING FLOORS WITHIN UNOCCUPIED SPACES FROM 1ST THRU 3RD FLOORS. REFRIGERANT PIPE ROUTING SHALL COMPLY WITH EXCEPTIONS LISTED IN CMC 1109.3.

OUTDOOR CONDENSING / HEAT PUMP UNIT SCHEDULE

TAG	MFR.	MODEL NO.	SERVICE	INDOOR AC UNIT TAG	NOMINAL SIZE (TONS)	UNIT EFFY. (SEER)	UNIT EFFY. (HSPF)	ELECTRICAL DATA			UNIT WEIGHT (LBS.)	NOTES:
								VOLTS	PHASE	MCA		
CU 1	TRANE	TRUZA0361KA70	TELEPHONE EQUIP. 0011	FCU 1	3	18.5	10.0	208/230	1	25.0	214	(1)
CU 2	TRANE	TRUZA0241KA00NA	TELEPHONE EQUIP. 1011	FCU 2	2	21.4	11.0	208/230	1	19.0	153	(2)
CU 3	TRANE	TRUZA0241KA00NA	TELEPHONE EQUIP. 2011	FCU 3	2	21.4	11.0	208/230	1	19.0	153	(2)
CU 4	TRANE	TRUZA0241KA00NA	TELEPHONE EQUIP. 3011	FCU 4	2	21.4	11.0	208/230	1	19.0	153	(2)

NOTES:
(1) SEE DETAIL 5/MP601 FOR MOUNTING DETAIL.
(2) SEE DETAIL 6/MP601 FOR MOUNTING DETAIL.

FAN COIL UNIT SCHEDULE

TAG	MFR.	MODEL NO.	SERVICE	SYS. TOTAL CAP. (MBH)	SYS. SENS. CAP. (MBH)	FAN			UNIT ELECTRICAL DATA			UNIT WEIGHT (LBS.)	NOTES:
						CFM (NOMINAL)	ESP (I.W.C.)	WATTS	VOLTS	PHASE	FLA		
FCU 1	TRANE	TPKA0A0361KA70A	TELEPHONE EQUIP. 0011	31.6	25.1	705	-	56	208/230	1	0.57	46	(1)(2)(3)(4)(5)
FCU 2	TRANE	TPKA0A0241KA70A	TELEPHONE EQUIP. 1011	21.1	18.2	635	-	56	208/230	1	0.36	46	(1)(2)(3)(4)(5)
FCU 3	TRANE	TPKA0A0241KA70A	TELEPHONE EQUIP. 2011	21.1	18.2	635	-	56	208/230	1	0.36	46	(1)(2)(3)(4)(5)
FCU 4	TRANE	TPKA0A0241KA70A	TELEPHONE EQUIP. 3011	21.1	18.2	635	-	56	208/230	1	0.36	46	(1)(2)(3)(4)(5)

NOTES:
(1) PROVIDE WITH FILTER BOX/EXTENSION AND 30% FILTERS, BACNet INTERFACE
(2) HEAT PUMP REVERSE CYCLE TO BE DISABLED. REFER TO MANUFACTURER INSTRUCTIONS.
(3) PROVIDE MAX BLUE ADV. BLUE DIAMOND CONDENSATE PUMP AND DRAIN PAN LEVEL SENSOR
(4) PROGRAMMABLE TOUCHSCREEN DISPLAY CONTROLLER.
(5) POWERED BY OUTDOOR UNIT.

DIAGRAM SYMBOL LEGEND	
DISPLAY	DESCRIPTION
///	POWER WIRE
———	CONTROL WIRE
———	REF. PIPE

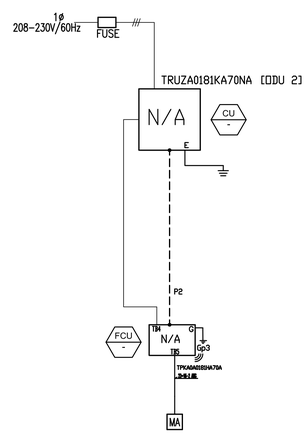
CONT.No | PAGE

This drawing is schematic in nature. Final routing of piping & wiring shall be determined by the installing contractor and/or designer of record

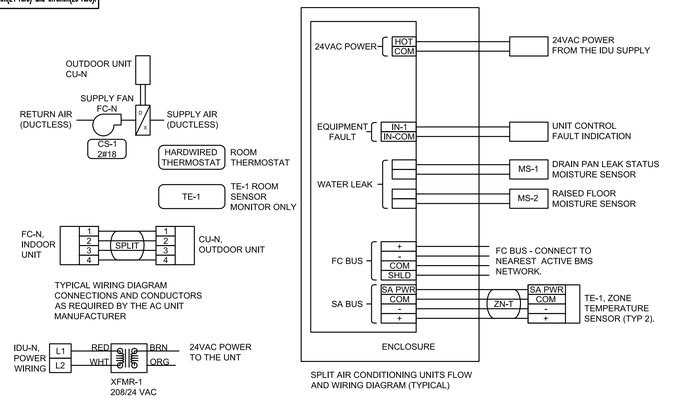
Additional refrigerant charge is needed depending on the size and length of extended piping. Please refer the amount of pre-charge and the formula of calculation which is mentioned on the data book.

1.25mm²(16 AWG) : 1.25mm²(16 AWG) or more. 0.75mm²(20 AWG) : between 0.5mm²(24 AWG) and 0.75mm²(20 AWG).

PIPING AND CONTROLS		
SYMBOL	BRANCH PIPE MODEL NAME	
A	CMY-Y62-G-E	
SYMBOL	LIQUID PIPE (mm)	GAS PIPE SIZE
P1	3/8	5/8
SYMBOL	MODEL NUMBER	
MA	PAC-CT01MAU-SB	



NOTE:
REFER TO "MITSUBISHI" INSTALLATION INSTRUCTIONS FOR CONNECTION OF PAN LEVEL SENSOR/CONTROL ALLOWING FOR AUTOMATIC SHUTDOWN OF IT ROOM AC UNITS UPON DETECTION OF WATER IN DRIP PANS. DRIP PAN SENSOR MODEL SS610E TO BE CONNECTED TO AC UNITS CONTROL BOARD PER MFR'S INSTRUCTIONS.



SEQUENCE OF OPERATION - SPLIT SYSTEM FAN COIL SYSTEM (TYPICAL OF 4)
JCI UNT CONTROLLER WILL MONITOR THE ZONE TEMPERATURE, SECONDARY DRAIN PAN MOISTURE SENSOR, AND UNIT CONTROLS FAULT INDICATION.

ALARMS / SAFETIES:
IF THE ZONE TEMPERATURE RISES ABOVE 85□ F (FIELD ADJUSTABLE), AN ALARM WILL BE SET AT THE NAE.
"MITSUBISHI" MODEL SS610E DRAIN PAN LEVEL SENSOR/CONTROL FOR AUTOMATIC SHUTDOWN OF AC UNIT UPON DETECTION OF WATER IN DRIP PAN.
IF MOISTURE IS DETECTED IN THE SECONDARY DRAIN PAN, AN ALARM WILL BE SET AT THE NAE.
IF A UNIT FAULT IS INDICATED (EITHER INDOOR FAN COIL UNIT OR OUTDOOR CONDENSING UNIT), AN ALARM WILL BE SET AT THE NAE.

(1) SPLIT SYSTEM CONTROL AND WIRING DIAGRAM
SCALE: NONE

UC DAVIS HEALTH BUILDING DEPARTMENT
APPROVED
REVIEWED FOR CODE COMPLIANCE
The set of plans and specifications must be kept on the job site at all times and it is unlawful to make any changes or alterations to the approved set without written permission from the Building Department.
The approval of this plan and specifications SHALL NOT be held to permit or approve the violation of any University Policy or State Building Code.
BY: Paul R Menard AIA, CBO DATE: 1/10/2024
PROJECT #: UCDH-2023-0230
UC Davis Health
Sacramento, CA 95817

BUILDING OFFICIAL:

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
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CAMPUS FIRE MARSHAL:

REGISTERED PROFESSIONAL ENGINEER
No. M38626
Exp: 03/31/25
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STATE OF CALIFORNIA

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Telephone 916.787.5100

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

4150 V ST,
SACRAMENTO, CA 95817

ACCOUNT NO.: AC 9559630
BLDG (SPC): PATIENT SUPPORT SERVICES BUILDING (PSSB) BLDG # 14
FLOOR/WING:
PROJECT TITLE: PSSB NETV2 UPGRADE
SHEET TITLE: MECHANICAL / PLUMBING SCHEDULES & CONTROLS

ARCH. / ENGR.	FD&C JOB NO.	
HGA	9559630	
UCDMC PROJECT MANAGER: KEN PICKETT	SCALE: AS SHOWN	MP002
DESIGNED BY: ANJ	DATE: JUNE 16, 2023	
DRAWN BY: ADK	HGA COMMISSION NO.: 1500-159-01	SHEET / OF

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STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.			
Project Name:	UCDH PSSB NET V2	**Report Page:**	**(Page 1 of 17)**
Project Address:	4150 V STREET	**Date Prepared:**	5/25/2023

A. GENERAL INFORMATION

01	Project Location (city)	SACRAMENTO	04	Total Conditioned Floor Area	344
02	Climate Zone	12	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1
● Data Center					

B. PROJECT SCOPE

This table Includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01 Air System(s)	02 Wet System Components	03 Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☒ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☐ Ductwork (existing to remain, altered or new)
	☐ Chillers	☒ Ventilation
	☐ Boilers	☒ Zonal Systems/ Terminal Boxes

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	UCDH PSSB NET V2	**Report Page:**	**(Page 2 of 17)**
Project Address:	4150 V STREET	**Date Prepared:**	5/25/2023

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08		09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2		Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)		
Yes	AND		AND	Yes	AND	Yes	AND	Yes	AND	Yes	AND		AND			COMPLIES
Mandatory Measures Compliance (See Table Q for Details)																COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01 System Name	02 Quantity	03 System Serving	04 System Status	05 Space Type	06 Utilizing Recovered Heat
CU-1	1	Single zone	New/ Addition		☐
CU-2	1	Single zone	New/ Addition		☐
CU-3	1	Single zone	New/ Addition		☐
CU-4	1	Single zone	New/ Addition		☐

STATE OF CALIFORNIA
Mechanical Systems
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CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	UCDH PSSB NET V2	**Report Page:**	**(Page 3 of 17)**
Project Address:	4150 V STREET	**Date Prepared:**	5/25/2023

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01 Name or Item Tag	02 Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	03 Equipment Type per Tables 110.2 and Title 20	04 Smallest Size Available[1] 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				05 Heating Output[2,3]			06 Cooling Output[2,3]		07 Load Calculations[3,4]	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
CU-1	Unitary AC/ Condensers	AC, air cooled, split (3 phase)	NA: Load Controls	0	0	0	30.13	25.1	-0.44	34.33
CU-2	Unitary AC/ Condensers	AC, air cooled, split (3 phase)	NA: Load Controls	0	0	0	20.06	18.2	-0.44	23.22
CU-3	Unitary AC/ Condensers	AC, air cooled, split (3 phase)	NA: Load Controls	0	0	0	20.06	18.2	-0.44	23.22
CU-4	Unitary AC/ Condensers	AC, air cooled, split (3 phase)	NA: Load Controls	0	0	0	20.06	18.2	-0.44	23.22

[1]FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.
[2]It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.
[3] If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.
[4] Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).

STATE OF CALIFORNIA
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CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	UCDH PSSB NET V2	**Report Page:**	**(Page 4 of 17)**
Project Address:	4150 V STREET	**Date Prepared:**	5/25/2023

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	Heating Mode 04	05	06	Cooling Mode 07	08	09
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
CU-1	<65,000					SEER	14.0	18.8
CU-2	<65,000					SEER	14.0	21.4
CU-3	<65,000					SEER	14.0	21.4
CU-4	<65,000					SEER	14.0	21.4

G. PUMPS

This section does not apply to this project.

STATE OF CALIFORNIA
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CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	UCDH PSSB NET V2	**Report Page:**	**(Page 5 of 17)**
Project Address:	4150 V STREET	**Date Prepared:**	5/25/2023

H. FAN SYSTEMS & AIR ECONOMIZERS

This table is used to demonstrate compliance with prescriptive requirements found in 140.4(c), 140.4(e), 140.4(m), 170.2(c)3, and 170.2(c)4A for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

01 System Name	02	03 Quantity	04								05	06	07	08	09	10	11
	CU-1	1	Fan System Status: New	System Zoning: all other systems	Serving Dwelling Units						Not Serving Dwelling Units	Fan System Airflow (cfm)	810	Site Elevation	17	Economizer	NA: <=33 kBtu/h cooling
													Allowance		Design		
Fan Name or Item Tag	Fan Type	Qty	Component								Airflow through Component (%)	Water Gauge (w.g)	Component Allowance	Fan Allowance (watt/cfm)[3]	Design Electrical Input Power Method	Motor Nameplate Horsepower	Design Electrical Input Power (kW)
SF	Supply	1	Base Allowance for system serving spaces <=6 floors away								810		188		Manufacturer provided		0.09
			MERV 13-16 Filter upstream of thermal conditioning equipment								810		113				
			Hydronic/DX cooling coil or heat pump coil								810		113				
											Fan System Allowance (kW)[3]				Fan System Electrical Output (kW)		

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	UCDH PSSB NET V2	**Report Page:**	**(Page 6 of 17)**
Project Address:	4150 V STREET	**Date Prepared:**	5/25/2023

H. FAN SYSTEMS & AIR ECONOMIZERS

01 System Name	02	03 Quantity	04								05	06	07	08	09	10	11
	CU-2	1	Fan System Status: New	System Zoning: all other systems	Serving Dwelling Units						Not Serving Dwelling Units	Fan System Airflow (cfm)	810	Site Elevation	17	Economizer	NA: <=33 kBtu/h cooling
													Allowance		Design		
Fan Name or Item Tag	Fan Type	Qty	Component								Airflow through Component (%)	Water Gauge (w.g)	Component Allowance	Fan Allowance (watt/cfm)[3]	Design Electrical Input Power Method	Motor Nameplate Horsepower	Design Electrical Input Power (kW)
SF	Supply	1	Base Allowance for system serving spaces <=6 floors away								810		188		Manufacturer provided		0.09
			MERV 13-16 Filter upstream of thermal conditioning equipment								810		113				
			Hydronic/DX cooling coil or heat pump coil								810		113				
											Fan System Allowance (kW)[3]				Fan System Electrical Output (kW)		

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	UCDH PSSB NET V2	**Report Page:**	**(Page 7 of 17)**
Project Address:	4150 V STREET	**Date Prepared:**	5/25/2023

H. FAN SYSTEMS & AIR ECONOMIZERS

01 System Name	02	03 Quantity	04								05	06	07	08	09	10	11
	CU-3	1	Fan System Status: New	System Zoning: all other systems	Serving Dwelling Units						Not Serving Dwelling Units	Fan System Airflow (cfm)	810	Site Elevation	17	Economizer	NA: <=33 kBtu/h cooling
													Allowance		Design		
Fan Name or Item Tag	Fan Type	Qty	Component								Airflow through Component (%)	Water Gauge (w.g)	Component Allowance	Fan Allowance (watt/cfm)[3]	Design Electrical Input Power Method	Motor Nameplate Horsepower	Design Electrical Input Power (kW)
SF	Supply	1	Base Allowance for system serving spaces <=6 floors away								810		188		Manufacturer provided		0.09
			MERV 13-16 Filter upstream of thermal conditioning equipment								810		113				
			Hydronic/DX cooling coil or heat pump coil								810		113				
											Fan System Allowance (kW)[3]				Fan System Electrical Output (kW)		

[3] FOOTNOTES: Fans serving spaces with design background noise goals below NC35

[2] Low-turndown single-zone VAV fan system must be capable of and configured to reduce airflow to 50 percent of design airflow and use no more than 30 percent of the design wattage at that airflow. No more than 10 percent of the design load served by the equipment shall have fixed loads.

H. EXHAUST AIR HEAT RECOVERY 140.4(q), 170.2(c)4O

01 Fan System Name	02 Qty	03 Hours of Operation per Year	04 Design Supply Airflow Rate	05 Outdoor Airflow	06 % Outdoor Air at Full Design Airflow	07 Exemptions to Exhaust Air Heat Recovery Requirement per 140.4(q) & 170.2(c)4O	08 Exhaust Air Heat Recovery 140.4(q) & 170.2(c)4O	09 Type Of Heat Recovery Rating	10 Required Recovery Ratio	11 Energy Recovery Bypass

Fan Energy Index (FEI)

01	02	03

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	UCDH PSSB NET V2	**Report Page:**	**(Page 8 of 17)**
Project Address:	4150 V STREET	**Date Prepared:**	5/25/2023

H. FAN SYSTEMS & AIR ECONOMIZERS

01 System Name	02	03 Quantity	04								05	06	07	08	09	10	11
	CU-4	1	Fan System Status: New	System Zoning: all other systems	Serving Dwelling Units						Not Serving Dwelling Units	Fan System Airflow (cfm)	810	Site Elevation	17	Economizer	NA: <=33 kBtu/h cooling
													Allowance		Design		
Fan Name or Item Tag	Fan Type	Qty	Component								Airflow through Component (%)	Water Gauge (w.g)	Component Allowance	Fan Allowance (watt/cfm)[3]	Design Electrical Input Power Method	Motor Nameplate Horsepower	Design Electrical Input Power (kW)
SF	Supply	1	Base Allowance for system serving spaces <=6 floors away								810		188		Manufacturer provided		0.09
			MERV 13-16 Filter upstream of thermal conditioning equipment								810		113				
			Hydronic/DX cooling coil or heat pump coil								810		113				
											Fan System Allowance (kW)[3]				Fan System Electrical Output (kW)		

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	UCDH PSSB NET V2	**Report Page:**	**(Page 9 of 17)**
Project Address:	4150 V STREET	**Date Prepared:**	5/25/2023

Fan Energy Index (FEI)

Name or Item Tag	FEI Exception	FEI

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01 System Name	02 System Zoning	03 Conditioned Floor Area Being Served (ft²)	04 Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	05 Shut-Off Controls 120.2(e) & 160.3(a)2D	06 Isolation Zone Controls 120.2(g) & 160.3(a)2F	07 Demand Response 110.12 120.2(b) & 160.3(a)2B	08 Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	09 Window Interlocks per 140.4(n) & 170.2(c)4D
CU-1	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	NA: HRR dwelling unit
CU-2	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	NA: HRR dwelling unit
CU-3	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	NA: HRR dwelling unit
CU-4	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	NA: HRR dwelling unit

[1]FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

UC DAVIS HEALTH BUILDING DEPARTMENT
APPROVED
REVIEWED FOR CODE COMPLIANCE
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The approval of this plan and specifications SHALL NOT be held to permit or approve the violation of any University Policy or State Building Code.
BY: Paul R Menard AIA, CBO DATE: 1/10/2024
PROJECT #: UCDH-2023-0230
UC Davis Health
Sacramento, CA 95817

BUILDING OFFICIAL:

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
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CAMPUS FIRE MARSHAL:

PROFESSIONAL OF RECORD:
R&A ENGINEERING SOLUTIONS Inc
Mechanical Consultants
601 University Avenue, Suite 255, Sacramento, CA 95825
Tel. (916) 920-5965 Fax. (916) 920-9239
R&A Job Number: HGA23322

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
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SACRAMENTO, CALIFORNIA 95817
(916)734-7024

HGA
1200 R Street, Suite 100
Sacramento, California 95811
Telephone 916.787.5100
CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

4150 V ST,
SACRAMENTO, CA 95817

ACCOUNT NO: AC 9559630
BUILDING: PATIENT SUPPORT SERVICES BUILDING (PSSB) BLDG # 14
FLOOR/WING:
PROJECT TITLE: PSSB NETV2 UPGRADE
SHEET TITLE: TITLE 24 DOCUMENTATION

ARCH. / ENGR.	FD&C JOB NO.	
HGA	9559630	
UCDMC PROJECT MANAGER: KEN PICKETT	SCALE: AS SHOWN	MP003
DESIGNED BY: ANJ	DATE: JUNE 16, 2023	
DRAWN BY: ADK	HGA COMMISSION NO.: 1500-159-01	SHEET / OF

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J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in 120.1 120.2(e)3B 140.4(p) and 140.4(q) for all nonresidential and hotel/motel and dr:24refnoiInk//160.2, 160.3(a)3J2, 170.2(e)4N, 170.2(e)4O for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

01	☐	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☒	Check this box if the project included Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces
	☐	
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per 120.1(c)2.

Nonresidential and Hotel/ Motel Multifamily Common Use Ventilation Systems

04		05			06			07
System Name	CU-1	System Design OA CFM Airflow[1]		0	System Design Transfer Air CFM		0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21[2] Provided
08	09	10	11	12	13	14	15	16

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3[5] 160.2(c)5D 160.2(c)5E 160.2(c)5D		
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
FC-1	Computer (not printing)	146			21.9	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				22	18	Ventilation for this System Complies?		Yes

04		05			06			07
System Name	CU-2	System Design OA CFM Airflow[1]		0	System Design Transfer Air CFM		0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21[2] Provided
08	09	10	11	12	13	14	15	16

J. VENTILATION AND INDOOR AIR QUALITY

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D		
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
FC-2	Computer (not printing)	66			9.9	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				10	18	Ventilation for this System Complies?		Yes

04		05			06			07
System Name	CU-3	System Design OA CFM Airflow[1]		0	System Design Transfer Air CFM		0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21[2] Provided
08	09	10	11	12	13	14	15	16

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D		
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
FC-3	Computer (not printing)	66			9.9	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				10	18	Ventilation for this System Complies?		Yes

04		05			06			07
System Name	CU-4	System Design OA CFM Airflow[1]		0	System Design Transfer Air CFM		0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21[2] Provided
08	09	10	11	12	13	14	15	16

J. VENTILATION AND INDOOR AIR QUALITY

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D		
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
FC-4	Computer (not printing)	66			9.9	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				10	18	Ventilation for this System Complies?		Yes

[1] FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system

[2] Air filtration requirements apply to the following three system types per 120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.

[3] Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.

[4] See Standards Tables 120.1-A and 120.1-B.

[5] For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.

[6] 120.2(e)3 requires systems serving rooms that are required by 130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by 130.1(c).

Multifamily Dwelling Unit Ventilation Systems

☐ Check the box if the system is using continuous ventilation to meet the ventilation requirements per 160.2(b)2Aivb2

19	20	21	22	23	24	25	26	27
Space Name or Item Tag	Mechanical Ventilation Required per 120.1(b) & 160.2(b)2				Ventilation per Design		Local Exhaust	Air Filtration per 120.1(c) & 160.2(b)1
	Conditioned Floor Area (ft²)	# of Bedrooms	# of Dwelling Units	Required Min OA CFM[1]	Supply Air CFM	Exhaust CFM		
28	Is this a balanced system[4]				29	Meeting Outside Air Requirements?		

[1] FOOTNOTES: Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.

J. VENTILATION AND INDOOR AIR QUALITY

[2] Kitchen range hood will be verified per NA7.18.1 to confirm model is rated by HVI or AHAM.

[3] Air filtration requirements apply to the following three system types per 120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.

[4] A balanced ventilation system provides ventilation airflow to each dwelling-unit at a rate equal to or greater than the required minimum rate, but not more than twenty percent.

K. TERMINAL BOX CONTROLS

This table is used to demonstrate compliance with prescriptive zone control requirements in 140.4(d) & 170.2(c)4B.

01	02	03	04	05	06	07	08	09	10	11	12
		Design			Deadband Compliance			Reheated, Recooled, Mixed Air Compliance			
Zone/System/VAV Box Name or Item Tag	Zonal Control Strategy per 140.4(d)	Peak Primary Airflow CFM	Primary Air in Deadband CFM	Reheated Recooled Mixed Airflow CFM	Outside Air CFM	30% of Peak Primary Airflow CFM	Max Deadband Airflow CFM	50% of Peak Primary Airflow	1st Stage Modulates <=95 °F and Maintains DB Rate?	2nd Stage Modulates from DB Flow to Heating Max Flow?	Complies
FC-1	No Reheat, Recool, Mixing	200	40	0	21.9	40	41	100	Yes	Yes	Yes
FC-2	No Reheat, Recool, Mixing	200	40	0	9.9	40	41	100	Yes	Yes	Yes
FC-3	No Reheat, Recool, Mixing	200	40	0	9.9	40	41	100	Yes	Yes	Yes
FC-4	No Reheat, Recool, Mixing	200	40	0	9.9	40	41	100	Yes	Yes	Yes

L. DISTRIBUTION (DUCTWORK and PIPING)

This section does not apply to this project.

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Form/Title	Systems/Spaces To Be Field Verified
NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	MITSUBISHI TPKA0A0361KA70A; MITSUBISHI TPKA0A0241KA70A; MITSUBISHI TPKA0A0241KA70A; MITSUBISHI TPKA0A0241KA70A; MITSUBISHI TPKA0A0241KA70A;
NRCA-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes'. If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".	MITSUBISHI TPKA0A0361KA70A; MITSUBISHI TPKA0A0241KA70A; MITSUBISHI TPKA0A0241KA70A; MITSUBISHI TPKA0A0241KA70A; MITSUBISHI TPKA0A0241KA70A;
NRCA-MCH-11-A Automatic Demand Shed Controls	MITSUBISHI TPKA0A0361KA70A; MITSUBISHI TPKA0A0241KA70A; MITSUBISHI TPKA0A0241KA70A; MITSUBISHI TPKA0A0241KA70A; MITSUBISHI TPKA0A0241KA70A;

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

NRCA-MCH-18-A Energy Management Control Systems	MITSUBISHI TPKA0A0361KA70A; MITSUBISHI TPKA0A0241KA70A; MITSUBISHI TPKA0A0241KA70A; MITSUBISHI TPKA0A0241KA70A;

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	Yes	Plan sheet or construction document location: M-Sheets

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Andrew Jones	Documentation Author Signature:
Company: R & A Engineering Solutions, Inc.	Signature Date: 2023-05-25
Address: 601 University Ave. Suite 255	CEA/ HERS Certification Identification (if applicable): M36229
City/State/Zip: Sacramento California 95825	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provided to the building owner at occupancy.

Responsible Designer Name: Andrew N. Jones	Responsible Designer Signature:
Company: R&A Engineering Solutions, Inc.	Date Signed: 2023-05-25
Address: 601 University Ave., Ste. 255	License: M36229
City/State/Zip: Sacramento CA 95825	Phone: (916) 920-5965

UC DAVIS HEALTH BUILDING DEPARTMENT
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BY: Paul R Menard AIA, CBO DATE: 1/10/2024
PROJECT #: UCDH-2023-0230
UC Davis Health
Sacramento, CA 95817

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Mechanical Consultants
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Tel. (916) 920-5965 Fax. (916) 920-9239
R&A Job Number: HGA23322

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HGA
1200 R Street, Suite 100
Sacramento, California 95811
Telephone 916.787.5100
CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

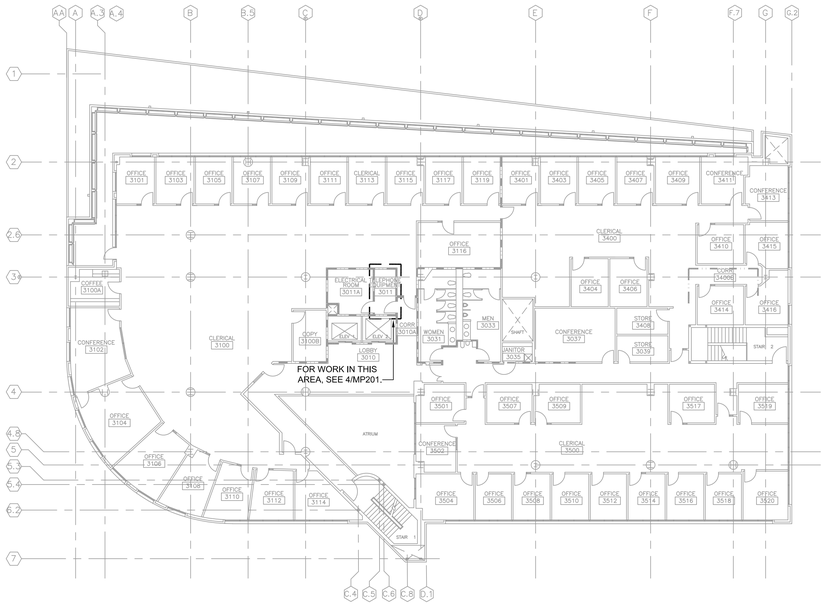
PSSB NETV2 UPGRADE

4150 V ST,
SACRAMENTO, CA 95817

ACCOUNT NO.: AC 9559630
BUILDING: PATIENT SUPPORT SERVICES BUILDING (PSSB) BLDG # 14
FLOOR/WING:
PROJECT TITLE: PSSB NETV2 UPGRADE
SHEET TITLE: TITLE 24 DOCUMENTATION

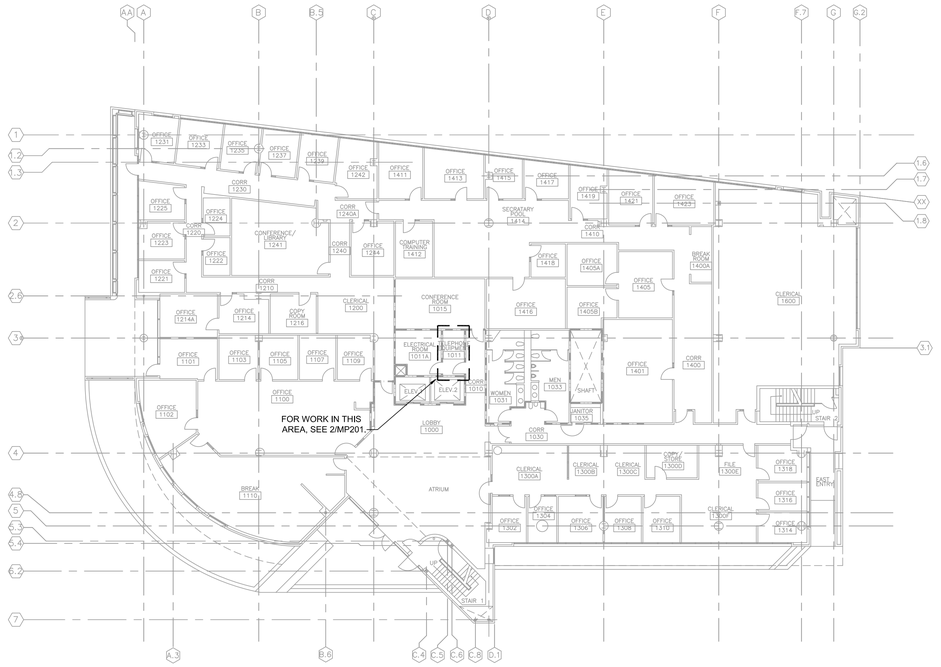
ARCH. / ENGR.	FD&G JOB NO.	
HGA	9559630	
UCDMC PROJECT MANAGER: KEN PICKETT	SCALE: AS SHOWN	MP004
DESIGNED BY: ANJ	DATE: JUNE 16, 2023	
DRAWN BY: ADK	HGA COMMISSION NO.: 1500-159-01	SHEET / OF

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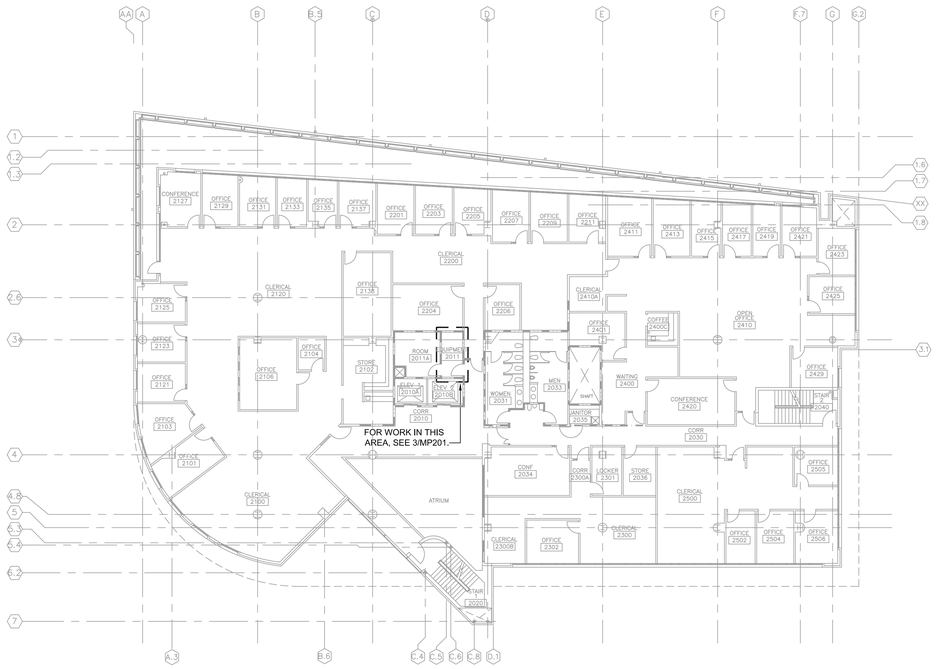
4 OVERALL LEVEL 03 MECHANICAL / PLUMBING PLAN

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



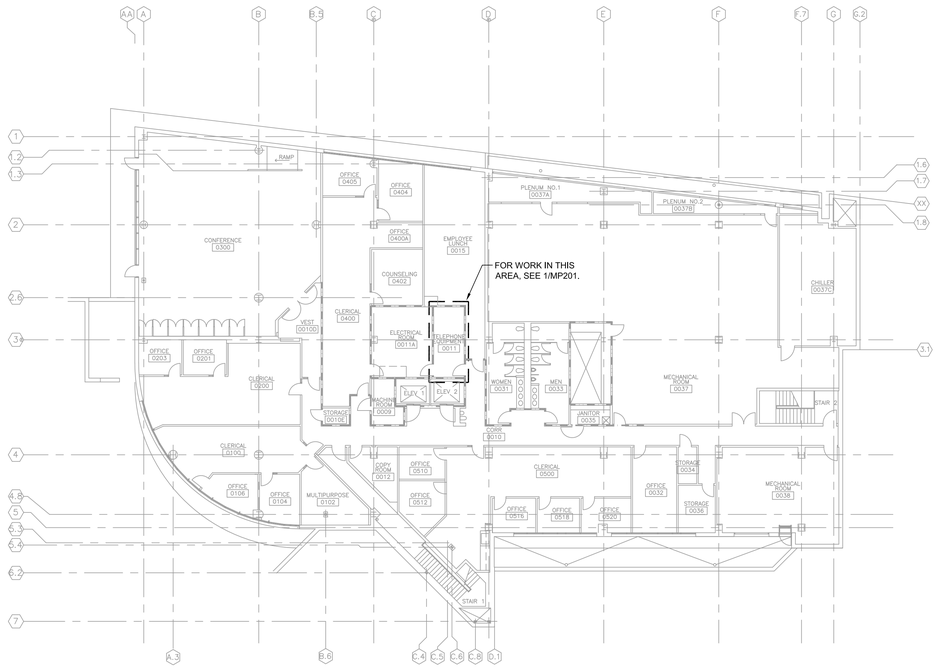
2 OVERALL LEVEL 01 MECHANICAL / PLUMBING PLAN

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



3 OVERALL LEVEL 02 MECHANICAL / PLUMBING PLAN

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



1 OVERALL LOWER LEVEL MECHANICAL / PLUMBING PLAN

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

UC DAVIS HEALTH BUILDING DEPARTMENT

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REVIEWED FOR CODE COMPLIANCE

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PROJECT #: UCDH-2023-0230

UC Davis Health
Sacramento, CA 95817

BUILDING OFFICIAL:

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY

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CAMPUS FIRE MARSHAL:

REGISTERED PROFESSIONAL ENGINEER — MARSHALL N. GOLDSMITH — No. M38828 — Exp. 03/31/25 — MECHANICAL — STATE OF CALIFORNIA

R&A ENGINEERING SOLUTIONS Inc
Mechanical Consultants
601 University Avenue, Suite 255, Sacramento, CA 95825
Tel. (916) 920-5965 Fax. (916) 920-9239
R&A Job Number: HGA23322

PROFESSIONAL OF RECORD:

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Telephone 916.787.5100

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

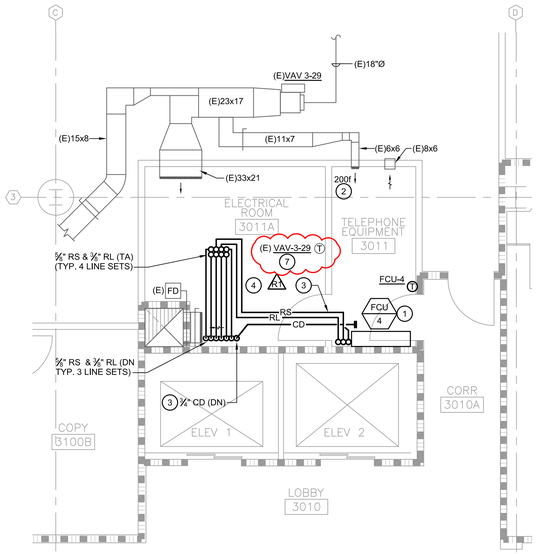
4150 V ST,
SACRAMENTO, CA 95817

KEYPLAN

ACCOUNT NO.: AC 9559630
BUILDING: PATIENT SUPPORT SERVICES BUILDING (PSSB) BLDG # 14
FLOOR/WING:
PROJECT TITLE: PSSB NETV2 UPGRADE
SHEET TITLE: OVERALL LOWER LEVEL THROUGH LEVEL 03 MECHANICAL / PLUMBING PLANS

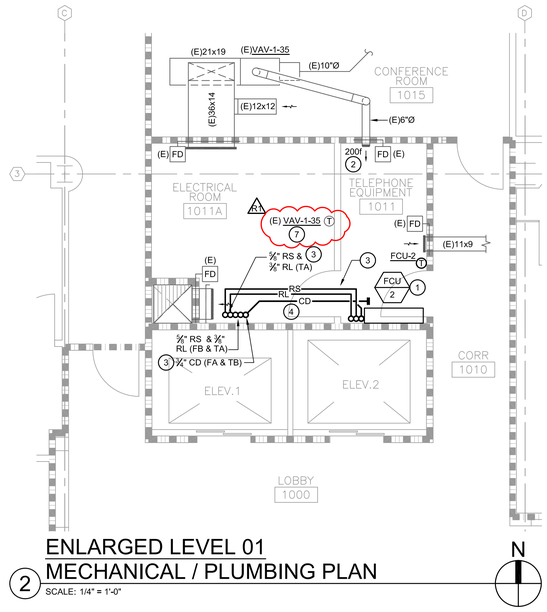
ARCH. / ENGR. HGA	FOAC JOB NO. 9559630	MP200	
UCDMC PROJECT MANAGER KEN PICKETT	SCALE AS SHOWN		
DESIGNED BY ANJ	DATE JUNE 16, 2023	SHEET	OF
DRAWN BY ADK	HGA COMMISSION NO. 1500-159-01		

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ENLARGED LEVEL 03 MECHANICAL / PLUMBING PLAN

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



ENLARGED LEVEL 01 MECHANICAL / PLUMBING PLAN

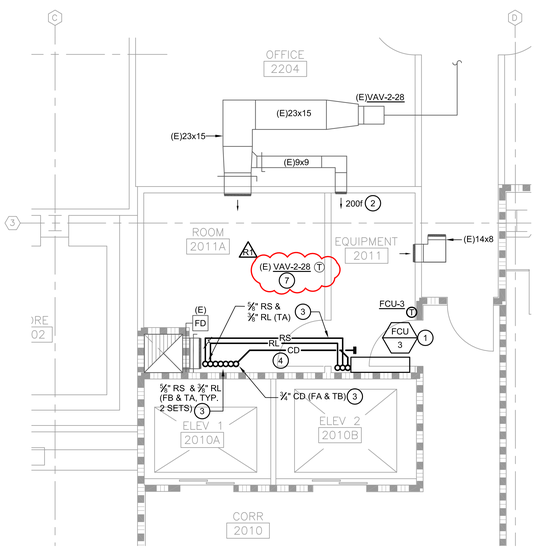
2 SCALE: 1/4" = 1'-0"

NEW WORK SHEET NOTES

1. MOUNT FAN COIL TO WALL' AT 10'-0" MAX AFF. PROVIDE CONDENSATE DRIP PAN AND MOUNTING PER DETAILS 2 THRU 4/MP601.
2. BALANCE EXISTING SUPPLY GRILLE TO NEW CFM SHOWN. MEASURE AND MAINTAIN AIRFLOWS TO ALL ROOMS SERVED BY SAME VAV BOX.
3. FOR NEW PIPE PENETRATIONS THRU RATED WALLS AND FLOORS SEE DETAILS ON SHEET MP603.
4. FOR GRAVITY TYPE HANGING CLEVIS & TRAPEZE TYPE PIPE SUPPORTS SEE DETAIL 7/MP601. FOR WALL MOUNTED SUPPORT OPTIONS SEE 4/MP602.
5. AT BASEMENT MECHANICAL ROOM 0037 ROUTE CONDENSATE (OVERHEAD) AND DOWN EXISTING STRUT RACK TO FLOOR AND TERMINATE AT (E) FLOOR DRAIN WITH 90° BEND DOWN AND MINIMUM 1" AIR GAP. UTILIZE EXISTING STRUT RACK FOR SUPPORT OF NEW ¾" CONDENSATE DRAIN LINE. WHERE EVER POSSIBLE UTILIZE EXISTING FLOOR SUPPORTS OR PROVIDE NEW PER DETAIL 8/MP601. SEE SHEET MP603 FOR PIPE PENETRATIONS THRU RATED WALLS.

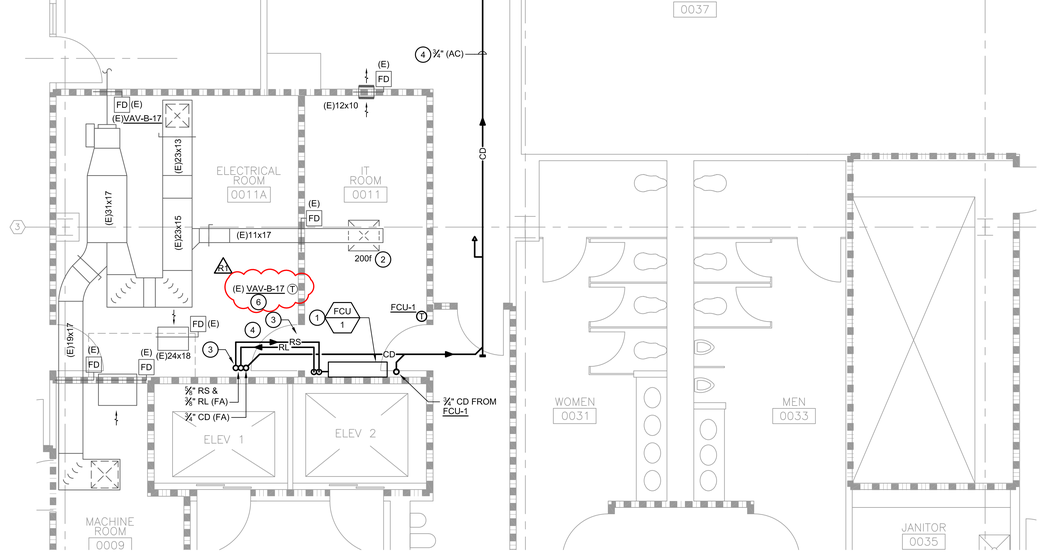
A1

6. EXISTING COOLING ONLY VAV THERMOSTAT SERVING ELECTRICAL, IT AND ELEVATOR MACHINE ROOM TO REMAIN IN PLACE.
7. EXISTING COOLING ONLY VAV THERMOSTAT SERVING ELECTRICAL AND IT ROOM TO REMAIN IN PLACE.



ENLARGED LEVEL 02 MECHANICAL / PLUMBING PLAN

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



ENLARGED LOWER LEVEL MECHANICAL / PLUMBING PLAN

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

UC DAVIS HEALTH BUILDING DEPARTMENT

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HGA
1200 R Street, Suite 100
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Telephone 916.787.5100

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
1	RESUBMITTAL 01	10/27/2023

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

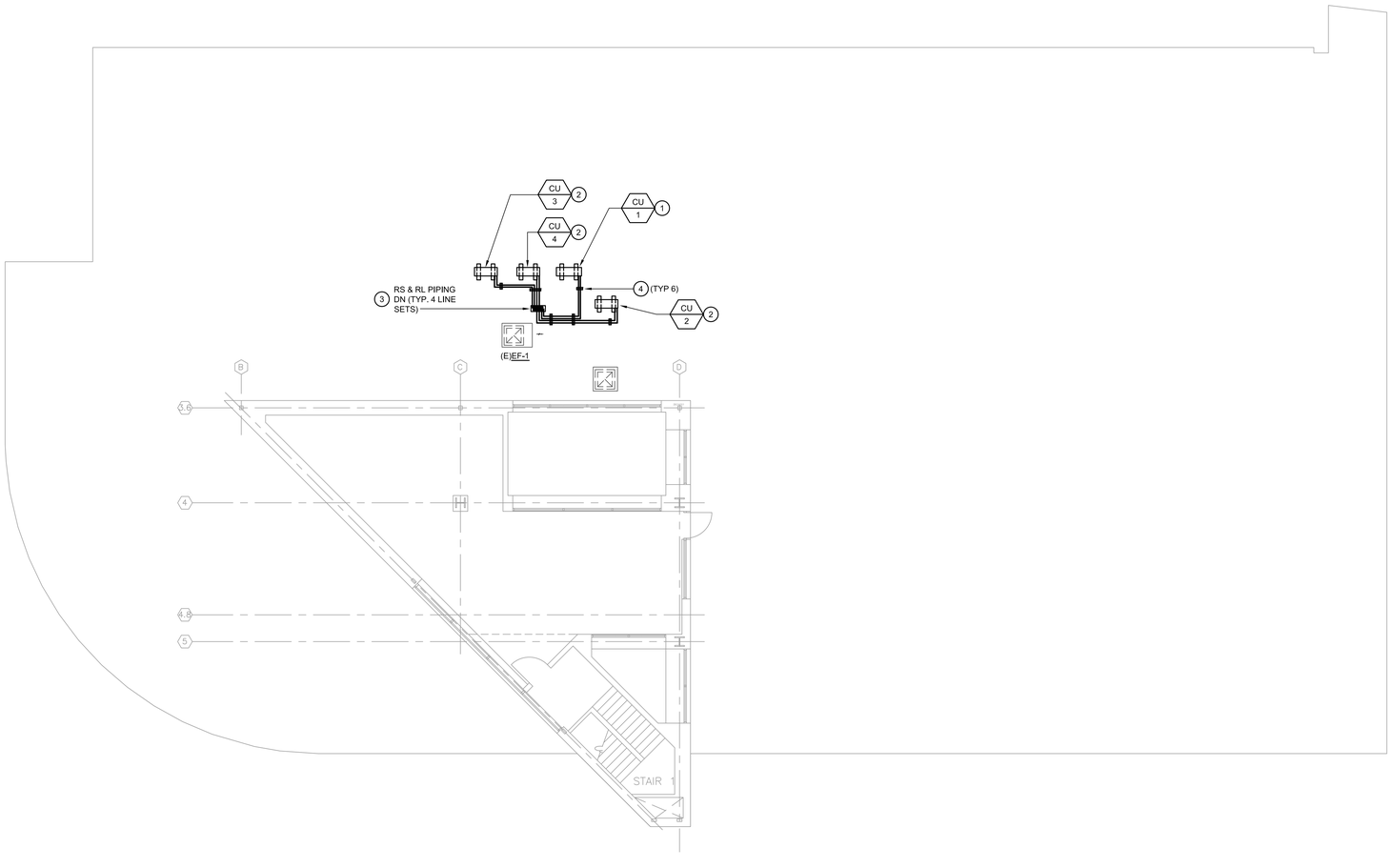
4150 V ST,
SACRAMENTO, CA 95817

KEYPLAN

ACCOUNT NO.: AC 9559630
BUILDING: PATIENT SUPPORT SERVICES BUILDING (PSSB)
FLOOR/WING:
PROJECT TITLE: PSSB NETV2 UPGRADE
SHEET TITLE: ENLARGED LOWER LEVEL THROUGH LEVEL 03 MECHANICAL / PLUMBING PLANS

ARCH. / ENGR. HGA	FD&C JOB NO. 9559630	MP201
UCDMC PROJECT MANAGER KEN PICKETT	SCALE AS SHOWN	
DESIGNED BY ANJ	DATE OCT. 27, 2023	
DRAWN BY ADK	HGA COMMISSION NO. 1500-159-01	SHEET / OF

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NEW WORK SHEET NOTES

1. MOUNT NEW CONDENSING UNIT CU-1 ON ROOF. FOR MOUNTING DETAIL SEE 5/MP601.
2. MOUNT NEW CONDENSING UNITS CU-2 THRU CU-4 ON ROOF. FOR MOUNTING DETAIL SEE 6/MP601 (TYPICAL).
3. REFRIGERANT PIPING DN THROUGH ROOF. FOR PIPING PENETRATION THRU ROOF SEE DETAIL 3/MP602.
4. PROVIDE ANCHORED PIPE SUPPORTS ON ROOF, SEE DETAIL 5/MP602 (TYPICAL).

1 ROOF MECHANICAL / PLUMBING PLAN
SCALE: 1/8" = 1'-0"

N

UC DAVIS HEALTH BUILDING DEPARTMENT

APPROVED

REVIEWED FOR CODE COMPLIANCE
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The approval of this plan and specifications SHALL NOT be held to permit or approve the violation of any University Policy or State Building Code.

BY: Paul R Menard AIA, CBO DATE: 1/10/2024

PROJECT #: UCDH-2023-0230

UC Davis Health
Sacramento, CA 95817

BUILDING OFFICIAL:

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

CAMPUS FIRE MARSHAL:

REGISTERED PROFESSIONAL ENGINEER
No. M38629
CIVIL
05/31/25
MECHANICAL
STATE OF CALIFORNIA

R&A ENGINEERING SOLUTIONS Inc.
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601 University Avenue, Suite 255, Sacramento, CA 95825
Tel. (916) 920-5965 Fax. (916) 920-9239
R&A Job Number: HGA23322

PROFESSIONAL OF RECORD:

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(916)734-7024

HGA
1200 R Street, Suite 100
Sacramento, California 95811
Telephone 916.787.5100

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

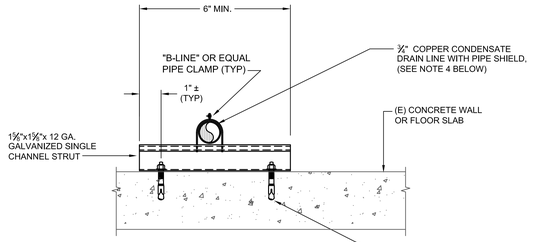
4150 V ST,
SACRAMENTO, CA 95817

KEYPLAN

ACCOUNT NO.: AC 9559630
BLD. (SNS): PATIENT SUPPORT SERVICES BUILDING (PSSB) BLDG # 14
FLOOR/WING:
PROJECT TITLE: PSSB NETV2 UPGRADE
SHEET TITLE: ROOF MECHANICAL / PLUMBING PLAN

ARCH. / ENGR. HGA	FD&C JOB NO. 9559630		MP301
UCDMC PROJECT MANAGER KEN PICKETT	SCALE AS SHOWN		
DESIGNED BY ANJ	DATE JUNE 16, 2023		
DRAWN BY ADK	HGA COMMISSION NO. 1500-159-01	SHEET	OF

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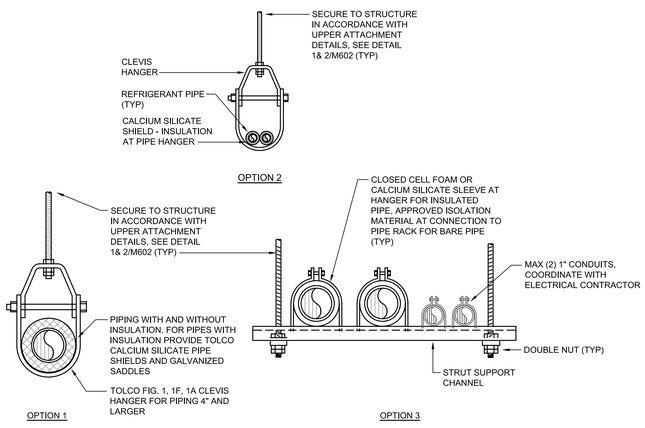


PLAN VIEW AT WALL OR ELEVATION AT FLOOR SLAB

NOTES:
1. DO NOT CUT OR DAMAGE (E) CONCRETE SLAB TENDONS OR MILD REINFORCEMENT. LOCATE (E) TENDONS AND MILD REINFORCEMENT PRIOR TO INSTALLATION OF ANCHORS.
2. ALL SUPPORT SPACING REQUIREMENTS SHALL COMPLY WITH CMC TABLE 313.3 AND CMC 1109.6.
3. WHERE LOCATED IN DAMP OR OUTDOOR ENVIRONMENT SUCH AS MECHANICAL ROOM ALL SUPPORT MATERIAL SHALL BE ACCEPTABLE FOR OUTDOOR USE, PROVIDE GALVANIZED OR STAINLESS STEEL COMPONENTS.

CONCRETE WALL OR FLOOR PIPE SUPPORT DETAIL

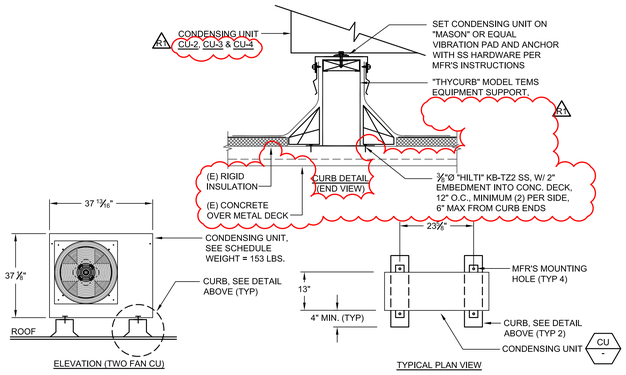
8 SCALE: NONE



NOTES:
1. DO NOT CUT OR DAMAGE (E) CONCRETE SLAB TENDONS OR MILD REINFORCEMENT. LOCATE (E) TENDONS AND MILD REINFORCEMENT PRIOR TO INSTALLATION OF ANCHORS.
2. COORDINATE WITH ELECTRICAL AND CONTROLS CONTRACTOR FOR SUPPORT OF CONDUITS WITHIN TRAPEZE HANGERS.
3. ALL SUPPORT SPACING REQUIREMENTS SHALL COMPLY WITH CMC TABLE 313.3 & CMC 1109.6 .
4. PROTECT ALL GLASS FIBER AND NON-RIGID PIPE INSULATION FROM CRUSHING IN HANGERS BY MEANS OF AN 18GAUGE METAL SHIELD 12" MINIMUM LENGTH X 120°F MINIMUM ARC OUTSIDE OF INSULATION.

PIPE SUPPORT DETAIL (GRAVITY)

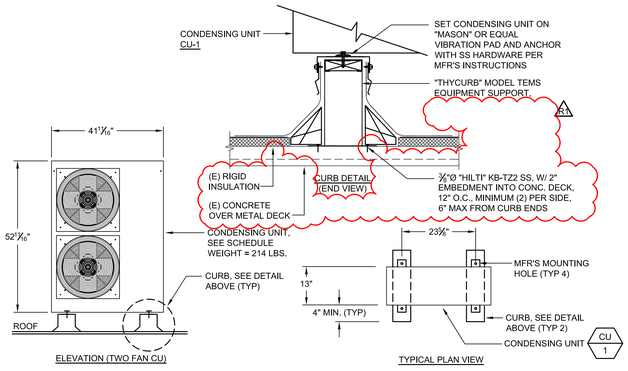
7 SCALE: NONE



NOTES:
1. FOR ADDITIONAL INFORMATION REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS. MAINTAIN ALL MAINTENANCE AND ELECTRICAL CLEARANCES.
2. SEAL ALL PENETRATIONS THRU CURB CAP WITH MASTIC TO MAKE FOR WATERTIGHT INSTALLATION (TYP).

(CU-2 THRU CU-4) CONDENSATE UNIT MOUNTING DETAILS

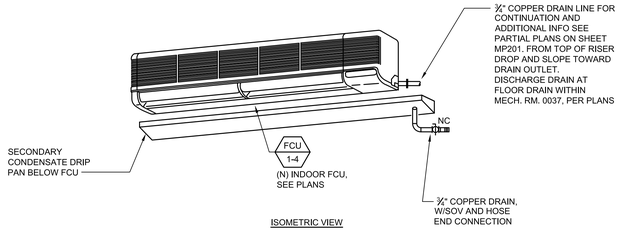
6 SCALE: NONE



NOTES:
1. FOR ADDITIONAL INFORMATION REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS. MAINTAIN ALL MAINTENANCE AND ELECTRICAL CLEARANCES.
2. SEAL ALL PENETRATIONS THRU CURB CAP WITH MASTIC TO MAKE FOR WATERTIGHT INSTALLATION (TYP).

(CU-1) CONDENSATE UNIT MOUNTING DETAIL

5 SCALE: NONE

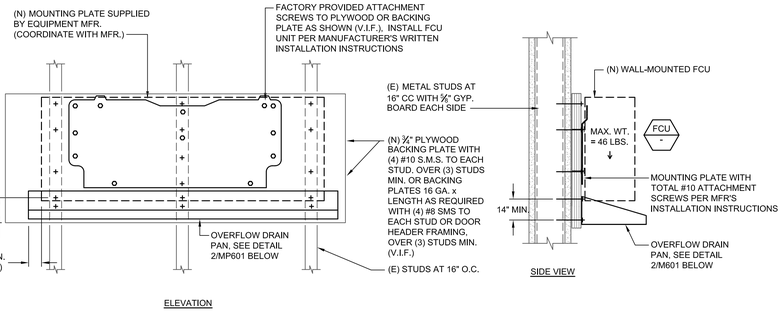


ISOMETRIC VIEW

NOTE:
1. PROVIDE "MITSUBISHI" MODEL GOBI-HI CONDENSATE PUMP AND "MITSUBISHI" MODEL SS610E DRAIN PAN SENSOR. BOTH POWERED BY FAN COIL UNIT. FAN COIL TO SHUT DOWN UPON FAILURE OF CONDENSATE PUMP.
2. INSTALL MFR'S WATER SENSING DEVICE (PAN SENSOR) WITHIN SECONDARY DRIP PAN TO PROVIDE AUTOMATIC UNIT SHUT-OFF IF SENSOR DETECTS WATER IN SECONDARY DRIP PAN.
3. REFER TO "MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR CONNECTION OF PAN LEVEL SENSOR/CONTROL ALLOWING FOR AUTOMATIC SHUTDOWN OF FC UNIT UPON DETECTION OF WATER IN DRIP PAN. PAN SENSOR TO BE CONNECTED TO FC UNITS CONTROL BOARD PER MFR'S INSTRUCTIONS.

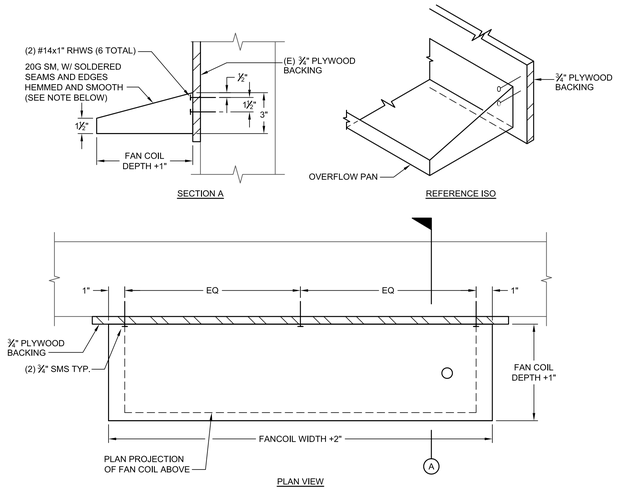
(AC-1) CONDENSATE ROUTING DETAIL

4 SCALE: NONE



(AC-1) INDOOR WALL MOUNTED F CU UNIT DETAIL

3 SCALE: NONE

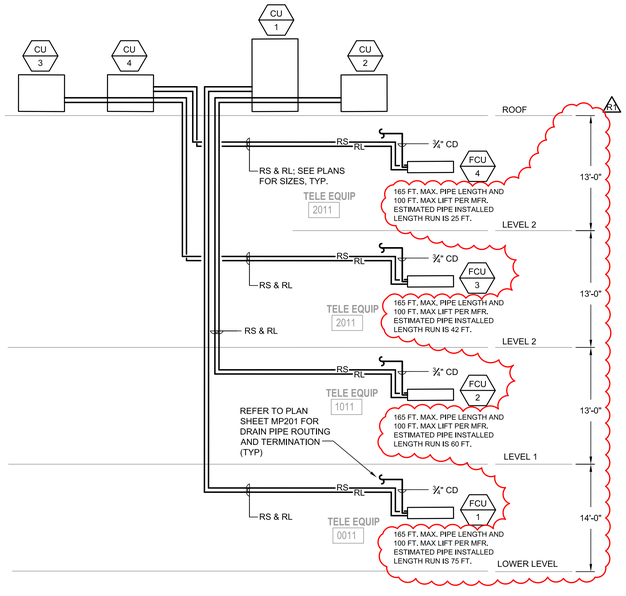


OVERFLOW DRAIN PAN MOUNTING DETAIL

2 SCALE: NONE

PIPING / PLUMBING PIPE RISER DIAGRAM

1 SCALE: NONE



UC DAVIS HEALTH BUILDING DEPARTMENT
APPROVED
REVIEWED FOR CODE COMPLIANCE
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BY: Paul R Menard AIA, CBO DATE: 1/10/2024
PROJECT #: UCDH-2023-0230
UC Davis Health
Sacramento, CA 95817

BUILDING OFFICIAL:

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
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CAMPUS FIRE MARSHAL:

REGISTERED PROFESSIONAL ENGINEER — MICHAEL A. ANDERSON — No. M38826 — CIVIL — 05/31/25 — STATE OF CALIFORNIA

R&A ENGINEERING SOLUTIONS Inc
Mechanical Consultants
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R&A Job Number: HGA23322

PROFESSIONAL OF RECORD:

UCDAVIS HEALTH
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(916)734-7024

HGA
1200 R Street, Suite 100
Sacramento, California 95811
Telephone 916.787.5100

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
A1	RESUBMITTAL 01	10/27/2023

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

4150 V ST,
SACRAMENTO, CA 95817

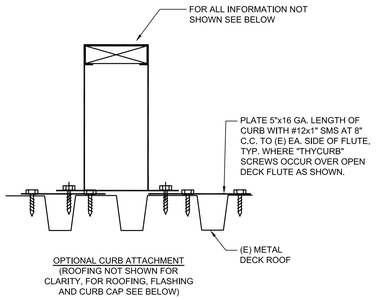


KEYPLAN

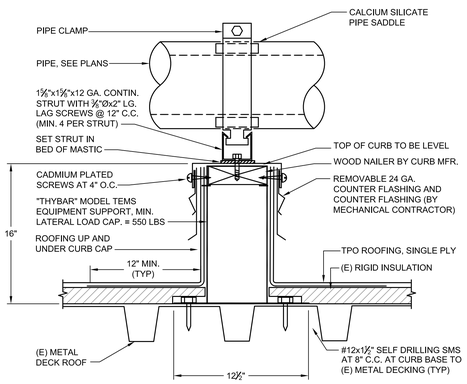
ACCOUNT NO.: AC 9559630
BUILDING: PATIENT SUPPORT SERVICES BUILDING (PSSB)
FLOOR/WING:
PROJECT TITLE: PSSB NETV2 UPGRADE
SHEET TITLE: MECHANICAL / PLUMBING DETAILS

ARCH. / ENGR.	FD&G JOB NO.	
HGA	9559630	
UCDMC PROJECT MANAGER: KEN PICKETT	SCALE: AS SHOWN	MP601
DESIGNED BY: ANJ	DATE: OCT. 27, 2023	
DRAWN BY: ADK	HGA COMMISSION NO.: 1500-159-01	SHEET / OF

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OPTIONAL CURB ATTACHMENT
(ROOFING NOT SHOWN FOR CLARITY, FOR ROOFING, FLASHING AND CURB CAP SEE BELOW)

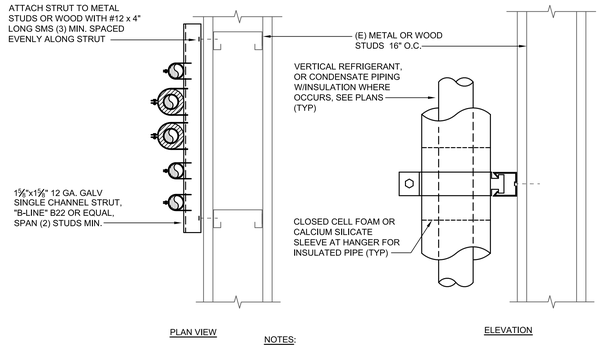


NOTES:

1. ADJUST POSITION OF CURB SUCH THAT SCREWS ATTACH TO TOP OF DECK FLUTES ONLY (AS SHOWN), OR PROVIDE ADDITIONAL METAL PLATE ATTACHMENT PER OPTIONAL CURB ATTACHMENT DETAIL SHOWN.
2. SEAL ALL PENETRATIONS THRU CURB AND FLASHING WITH MASTIC TO MAKE FOR WATERTIGHT INSTALLATION (TYP).
3. PROVIDE SUFFICIENT CURB LENGTH AS REQUIRED TO SUPPORT CONDUIT AS NEEDED, COORDINATE W/ELECTRICAL CONTRACTOR. ALL SUPPORT SPACING REQUIREMENTS SHALL COMPLY WITH CMC TABLE 313.3 & CMC 1109.6.
4. FOR RECOMMENDED SUPPORT LAYOUT REFER TO ROOF PLANS. CONTRACTOR SHALL LOCATE ANCHORED SUPPORT WITHIN 2'-0" OF BENDS AND MAX. 40'-0" APART, PROVIDE MIN. (1) ANCHORED SUPPORT PER PIPE.

5 ANCHORED PIPE SUPPORT AT METAL DECK ROOF

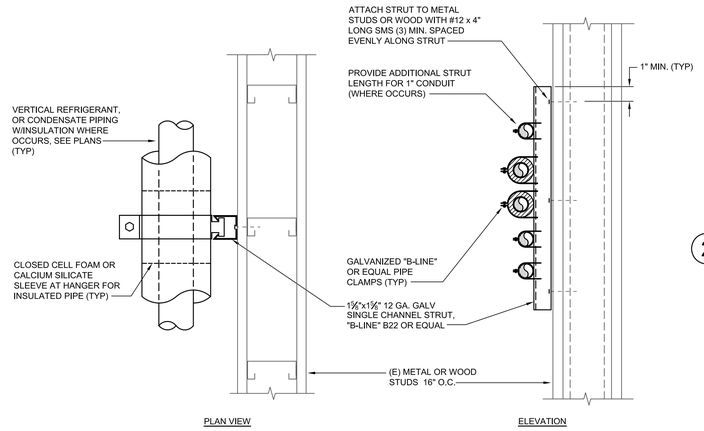
SCALE: NONE



NOTES:

1. FOR ALL INFORMATION NOT SHOWN REFER TO DETAIL AND NOTES BELOW.

VERTICAL PIPE SUPPORT



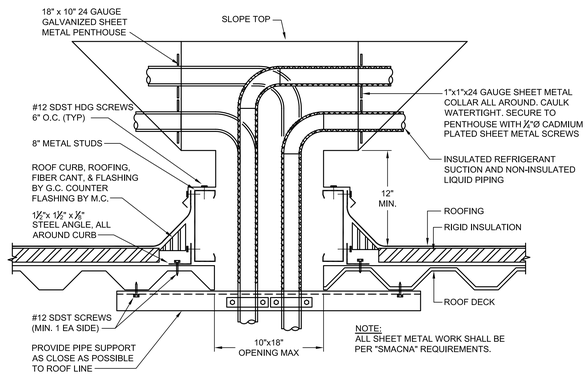
HORIZONTAL PIPE SUPPORT

NOTES:

1. ALL SUPPORT MATERIALS SHALL BE GALVANIZED.
2. ALL SUPPORT SPACING REQUIREMENTS SHALL COMPLY WITH CMC TABLE 313.3 & CMC 1109.6.
3. MAXIMUM (2) COPPER REFRIGERANT PIPES, (2) ¾" COPPER DRAIN PIPES AND/OR 1" CONDUIT PER SUPPORT LOCATION.

WALL MOUNTED - PIPE SUPPORT DETAIL

4 SCALE: NONE



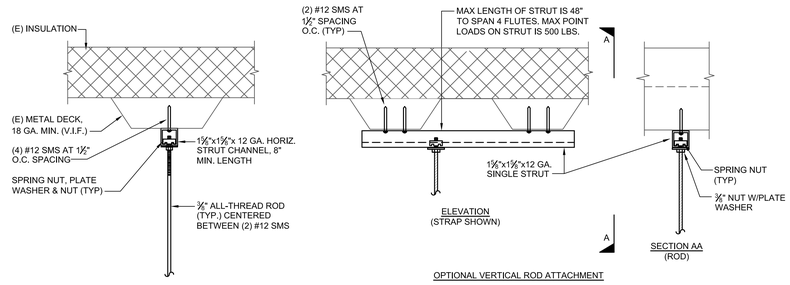
NOTE:
ALL SHEET METAL WORK SHALL BE PER "SMACNA" REQUIREMENTS.

NOTE:

1. SEAL ALL SCREW PENETRATIONS THROUGH SHEET METAL PENTHOUSE AND CURB FLASHING. MASTIC OVER SHEET METAL SCREWS OR PROVIDE SCREW GASKETS AS REQUIRED TO MAKE FOR WATER TIGHT INSTALLATION.
2. COORDINATE ROUTING OF ELECTRICAL POWER AND CONTROL CONDUITS THRU PENETRATION AS NEEDED. PENETRATION THRU METAL PENTHOUSE SIMILAR TO ABOVE.

3 REFRIGERANT PIPES THROUGH ROOF DETAIL

SCALE: NONE

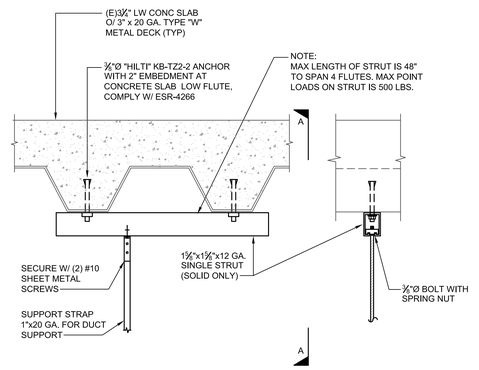


NOTES:

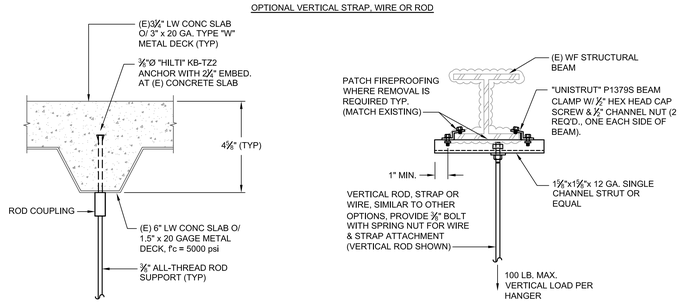
1. MAXIMUM WEIGHT OF DISTRIBUTED SYSTEMS NOT TO EXCEED 5 LBS PER LINER FOOT, MAX WEIGHT OF SUSPENDED COMPONENTS NOT TO EXCEED 20 LBS.
2. ALL HANGERS MAY BE INSTALLED UP TO 5 DEGREES OUT-OF-PLUMB.
3. WHERE ATTACHING STRUT TO DECK, STRUT MAYBE ROTATED 90 DEG. IN PLAN TO RUN PARALLEL WITH THE DECK FLUTES (+\-1" FROM CENTERLINE OF LOW DECK FLUTES; NO RESTRICTION FOR ALIGNMENT WITH FLUTES) AND MAY BE ANCHORED TO A SINGLE LOW FLUTE.
4. WHERE ATTACHING STRUT TO DECK LOW FLUTES, STRUT MAYBE ROTATED +/- 45 DEG. MAX. IN PLAN.
5. PATCH FIREPROOFING WHERE REMOVAL IS REQUIRED, MATCH EXISTING FOR REPAIRS.

METAL DECK ROOF UPPER ATTACHMENT DETAILS

2 SCALE: NONE



OPTIONAL VERTICAL STRAP, WIRE OR ROD



NOTES:

1. INSTALLATION, INSPECTION AND TESTING OF POST-INSTALLED ANCHORS SHALL BE PER STRUCTURAL REQUIREMENTS, SEE STRUCTURAL DRAWINGS.
2. MAXIMUM WEIGHT OF DISTRIBUTED SYSTEMS NOT TO EXCEED 5 LBS PER LINER FOOT, MAX WEIGHT OF SUSPENDED COMPONENTS NOT TO EXCEED 20 LBS. MAXIMUM LOAD PER INDIVIDUAL SUPPORT SHALL NOT EXCEED 100 LBS.
3. ALL HANGERS MAY BE INSTALLED UP TO 5 DEGREES OUT-OF-PLUMB.
4. MIN. SPACING FROM ANY OTHER ADJACENT HANGER, SPLAY OR SUPPORT ROD SHALL BE 12".
5. WHERE ATTACHING STRUT TO DECK, STRUT MAY BE ROTATED 90 DEGREES IN PLAN TO RUN PARALLEL WITH THE DECK FLUTES (+\-1" FROM CENTERLINE OF LOW DECK FLUTES; NO RESTRICTION FOR ALIGNMENT WITH FLUTES) AND MAY BE ANCHORED TO A SINGLE LOW FLUTE.
6. WHERE ATTACHING STRUT TO DECK LOW FLUTES, STRUT MAYBE ROTATED +/- 45 DEG. MAX. IN PLAN.

CONCRETE FLOOR UPPER ATTACHMENT DETAILS

1 SCALE: NONE

UC DAVIS HEALTH BUILDING DEPARTMENT

APPROVED

REVIEWED FOR CODE COMPLIANCE

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BY: Paul R Menard AIA, CBO DATE: 1/10/2024

PROJECT #: UCDH-2023-0230

UC Davis Health
Sacramento, CA 95817

BUILDING OFFICIAL:

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
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CAMPUS FIRE MARSHAL:

PROFESSIONAL OF RECORD:

R&A ENGINEERING SOLUTIONS Inc
Mechanical Consultants
601 University Avenue, Suite 255, Sacramento, CA 95825
Tel. (916) 920-5965 Fax. (916) 920-9239
R&A Job Number: HGA23322

UCDAVIS HEALTH
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SACRAMENTO, CALIFORNIA 95817
(916)734-7024

CONSULTANT LOGO:

HGA
1200 R Street, Suite 100
Sacramento, California 95811
Telephone 916.787.5100

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

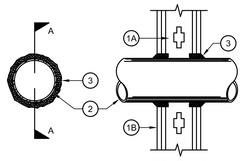
4150 V ST,
SACRAMENTO, CA 95817

ACCOUNT NO.: AC 9559630
BUILDING: PATIENT SUPPORT SERVICES BUILDING (PSSB) BLDG # 14
FLOOR/WING:
PROJECT TITLE: PSSB NETV2 UPGRADE
SHEET TITLE: MECHANICAL / PLUMBING DETAILS

ARCH. / ENGR.	FD&G JOB NO.	
HGA	9559630	
UCDMC PROJECT MANAGER	SCALE	MP602
KEN PICKETT	AS SHOWN	
DESIGNED BY	DATE	
ANJ	JUNE 16, 2023	
DRAWN BY	HGA COMMISSION NO.	SHEET / OF
ADK	1500-159-01	

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SYSTEM NO.W-L-1001
JUNE 15, 2005
F RATINGS - 1, 2, 3 AND 4 HR (SEE ITEMS 2 AND 3)
T RATINGS - 0, 1, 2, 3, AND 4 HR (SEE ITEM 3)
L RATING AT AMBIENT - LESS THAN 1 CFM/SQ FT
L RATING AT 400 F - LESS THAN 1 CFM/SQ FT



SECTION A-A

1. WALL ASSEMBLY - THE 1, 2, 3 OR 4 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 2 HR FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC WITH NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3⁄4 IN. (92 MM) WIDE BY 1⅝ IN. (35 MM) DEEP CHANNELS SPACED MAX 24 IN. (610 MM) OC.
   B. GYPSUM BOARD* - NOM 1⁄2 OR 5⁄8 IN. (13 OR 16 MM) THICK, 4 FT. (122 CM) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM. OF OPENING IS 26 IN. (660 MM).
2. THROUGH PENETRANT - ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN OF 0 IN. (0 MM) (POINT CONTACT) TO MAX 2 IN. (51 MM). PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
   A. STEEL PIPE - NOM 24 IN. (610 MM) DIAM. (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
   B. IRON PIPE - NOM 24 IN. (610 MM) DIAM. (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN. (305 MM) DIAM. (OR SMALLER) OR CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE.
   C. CONDUIT - NOM 6 IN. (152 MM) DIAM. (OR SMALLER) STEEL CONDUIT OR NOM 4 (102 MM) DIAM. (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING
   D. COPPER TUBING - NOM 6 IN. (152 MM) DIAM. (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING
   E. COPPER PIPE - NOM 6 IN. (152 MM) DIAM. (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
   F. THROUGH PENETRATING PRODUCT* - FLEXIBLE METAL PIPING - THE FOLLOWING TYPES OF STEEL FLEXIBLE METAL GAS PIPING MAY BE USED:
      - NOM 2 IN. (51 MM) DIAM. (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.
      - NOM 1 IN. (25 MM) DIAM. (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.
      - NOM 1 IN. (25 MM) DIAM. (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.
3. FILL,VOID OR CAVITY MATERIAL* - CAULK OR SEALANT - MIN ⅝, 1⅛,1⅞ AND 2⅝ IN. (16, 32, 48 AND 64 MM) THICKNESS OF CAULK FOR 1, 2, 3 AND 4 HR RATED ASSEMBLIES, RESPECTIVELY, APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. MIN ¼ IN. (6 MM) DIAM. BEAD OF CAULK APPLIED TO GYPSUM BOARD/PENETRANT INTERFACE AT POINT CONTACT LOCATION ON BOTH SIDES OF WALL.
   THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE.
   THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

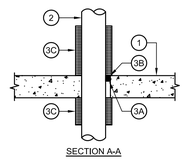
MAX PIPE OR CONDUIT DIAM., IN. (MM)	F RATING HR	T RATING HR
1 (25)	1 OR 2	0+, 1 OR 2
1 (25)	3 OR 4	3 OR 4
4 (102)	1 OR 2	0
6 (152)	3 OR 4	0
12 (305)	1 OR 2	0

+WHEN COPPER PIPE IS USED, T RATING IS 0 HR.
3M COMPANY - CP 25WB+ CAULK OR FB-3000 WT SEALANT,
*BEARING THE UL CLASSIFICATION MARKING

METAL PIPE / CONDUIT THRU GYPSUM WALL 1 OR 2 HR RATED FIRE PENETRATION DETAIL

3 SCALE: NONE

SYSTEM NO. C-AJ-1473
F RATING - 2 HR
T RATING - 2 HR
L RATING AT AMBIENT - 2 CFM/SQ FT
L RATING AT 400° F - LESS THAN 1 CFM/SQ FT



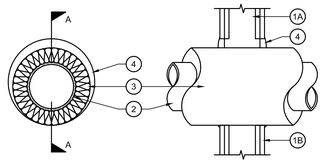
SECTION A-A

1. FLOOR OR WALL ASSEMBLY - MIN 4-1/2 in. (114 mm) THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 pcf or 1600-2400 kg/m3) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*, MAX. DIAM. OF OPENING 12-3/4 in. (324 mm). SEE CONCRETE BLOCKS (CAZT) CATEGORY IN FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
2. THROUGH PENETRANT - ONE METALLIC PIPE OF TUBING INSTALLED CONCENTRICALLY OR ECCENTRICALLY WITHIN OPENING. ANNULAR SPACE BETWEEN PENETRANT AND PERIPHERY OF OPENING SHALL BE MIN. OF 0 in. (POINT CONTACT) TO MAX. 2 in. (0 mm to max 51 mm). PENETRANT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPE AND SIZES OF PENETRANT MAY BE USED:
   A. STEEL PIPE - NOM. 10 in. (254 mm) DIAM., (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
   B. IRON PIPE - NOM. 10 in. (254 mm) DIAM., (OR SMALLER) CAST IRON OR DUCTILE IRON PIPE.
   C. COPPER TUBING - NOM. 4 in. (102 mm) DIAM., (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
   D. COPPER PIPE - NOM 4 in. (102 mm) DIAM. (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
3. FIRESTOP SYSTEM - THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS:
   A. PACKING MATERIAL - MIN. 1 in. (25 mm) THICKNESS OF MIN. 4 pcf (64kg/m3) MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL: TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SIDES OF BOTH SURFACES OF WALL TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
   B. FILL, VOID OR CAVITY MATERIALS* - CAULK OR PUTTY - MIN. 1 in. (25 mm) THICKNESS OF CAULK OR PUTTY APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR WALL WITH BOTH SURFACES OF WALL. 3M COMPANY - CP 25WB+ caulk or MP+ Stix putty
   C. DUCT WRAP MATERIAL* - NOM. 2 in. (51 mm) THICK DUCT WRAP TIGHTLY WRAPPED AROUND PENETRANT TO EXTEND 12 in. (305 mm) BELOW FLOOR AND 36 in. (914 mm) ABOVE FLOOR OR 36 in. (914 mm) BEYOND BOTH SURFACES OF WALL. LONGITUDINAL EAMS SEALED WITH FOIL TAPE. 3M COMPANY - FireBarrier Duct Wrap 20A *Bearing the UL Classification Marking

PIPE THRU CONCRETE FLOOR PENETRATION DETAIL

4 SCALE: NONE

SYSTEM NO. W-L-5014
F RATINGS - 1 AND 2 HR (SEE ITEM 1)
T RATING - 1 HR
L RATING AT AMBIENT - LESS THAN 1 CFM/SQ FT
L RATING AT 400 F - LESS THAN 1 CFM/SQ FT



SECTION A-A

1. WALL ASSEMBLY - THE 1 OR 2 HR FIRE-RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300, U400 OR V400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED MAX 16 IN. (406 MM) OC. STEEL STUDS TO BE MIN 3-5/8 IN. (92 MM) WIDE AND SPACED MAX 24 IN. (610 MM) OC.
   B. GYPSUM BOARD* - 5/8 IN. (16 MM) THICK, 4 FT (1.2 M) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM. OF OPENING IS 18 IN. (457 MM).

   THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.

1A. METALLIC SLEEVE - (OPTIONAL, NOT SHOWN) - CYLINDRICAL SLEEVE FABRICATED FROM MIN 0.016 IN. (0.41 MM) TO MAX 0.105 IN. (2.7 MM) THICK SHEET STEEL. LENGTH OF STEEL SLEEVE TO BE EQUAL TO THE THICKNESS OF WALL. LONGITUDINAL SEAM OF SLEEVE WELDED OR OVERLAPPED MIN 1 IN. (25 MM). THE ENDS OF THE STEEL SLEEVE SHALL BE FLUSH OR RECESSED MAX 1/4 IN. (6 MM) FROM WALL SURFACES.

2. THROUGH PENETRANTS - ONE METALLIC PIPE OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR TUBING MAY BE USED:
   A. STEEL PIPE - NOM 12 IN. (305 MM) DIAM. (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
   B. IRON PIPE - NOM 12 IN. (305 MM) DIAM. (OR SMALLER) CAST OR DUCTILE IRON PIPE.
   C. COPPER TUBING - NOM 4 IN. (102 MM) DIAM. (OR SMALLER) TYPE M (OR HEAVIER) COPPER TUBE.
   D. COPPER PIPE - NOM 4 IN. (102 MM) DIAM. (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
3. PIPE COVERINGS* - ONE OF THE FOLLOWING TYPES OF PIPE COVERINGS SHALL BE USED:
   A. PIPE AND EQUIPMENT COVERING MATERIALS* - MAX 2 IN. (51 MM) THICK HOLLOW CYLINDRICAL HEAVY DENSITY (MIN 3.5 PCF OR 56 KG/M3) GLASS FIBER UNITS JACKETED ON THE OUTSIDE WITH AN ALL SERVICE JACKET. LONGITUDINAL JOINTS SEALED WITH METAL FASTENERS OR FACTORY-APPLIED SELF-SEALING LAP TAPE. TRANSVERSE JOINTS SECURED WITH METAL FASTENERS OR WITH BUTT TAPE SUPPLIED WITH THE PRODUCT. THE ANNULAR SPACE BETWEEN INSULATED PENETRATING ITEM AND THE EDGE OF THE THROUGH OPENING SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 1-1/4 IN. (32 MM).

      SEE PIPE AND EQUIPMENT COVERING-MATERIALS* - (BRGU) CATEGORY IN THE BUILDING MATERIALS DIRECTORY FOR NAMES OF MANUFACTURERS. ANY PIPE COVERING MATERIAL MEETING THE ABOVE SPECIFICATIONS AND BEARING THE UL CLASSIFICATION MARKING WITH A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKE DEVELOPED INDEX OF 50 OR LESS MAY BE USED.
   B. PIPE COVERING MATERIALS* - MAX 2 IN. (51 MM) THICK UNFACED MINERAL FIBER PIPE INSULATION SIZED TO THE OUTSIDE DIAM. OF PIPE OR TUBE. PIPE INSULATION SECURED WITH MIN 18 SWG STEEL WIRE SPACED MAX 12 IN. (305 MM) OC. THE ANNULAR SPACE BETWEEN INSULATED PENETRATING ITEM AND THE EDGE OF THE THROUGH OPENING SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 1-1/4 IN. (32 MM).

      IIG MINWOOL I, L C - HIGH TEMPERATURE PIPE INSULATION 1200, HIGH TEMPERATURE PIPE INSULATION BWT OR HIGH TEMPERATURE PIPE INSULATION THERMALOC.
   C. SHEATHING MATERIAL* - USED IN CONJUNCTION WITH ITEM 3B. FOIL-SCRIM-KRAFT OR ALL SERVICE JACKET MATERIAL SHALL BE WRAPPED AROUND THE OUTER CIRCUMFERENCE OF THE PIPE INSULATION (ITEM 3B) WITH THE KRAFT SIDE EXPOSED. LONGITUDINAL JOINTS AND TRANSVERSE JOINTS SEALED WITH METAL FASTENERS OR BUTT TAPE.

      SEE SHEATHING MATERIALS (BVDV) CATEGORY IN THE BUILDING MATERIALS DIRECTORY FOR NAMES OF MANUFACTURERS. ANY SHEATHING MATERIAL MEETING THE ABOVE SPECIFICATIONS AND BEARING THE UL CLASSIFICATION MARKING WITH A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKE DEVELOPED INDEX OF 50 OR LESS MAY BE USED.
4. FILL, VOID OR CAVITY MATERIAL* - SEALANT - MIN 5/8 IN. (16 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. AT POINT CONTACT LOCATION BETWEEN INSULATED THROUGH PENETRANT AND GYPSUM BOARD, A MIN 3/8 IN. (10 MM) BEAD OF FILL MATERIAL SHALL BE APPLIED TO THE INSULATED THROUGH PENETRANT/GYPSUM BOARD INTERFACE ON BOTH SIDES OF THE WALL.

   SPECIFIED TECHNOLOGIES INC - SPECSEAL SERIES SSS SEALANT OR SPECSEAL LCI SEALANT

   *BEARING THE UL CLASSIFICATION MARK

INSULATED METAL PIPE THRU GYPSUM WALL 1 OR 2 HOUR THROUGH PENETRATION DETAIL

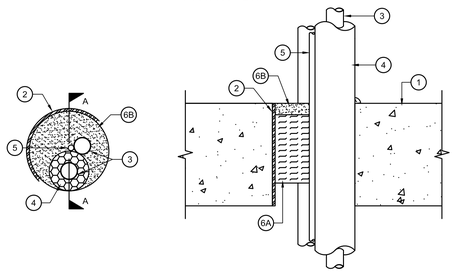
2 SCALE: NONE

FIRE-STOP / MEMBRANE PENETRATION DETAILS - GENERAL NOTE

WHERE PROVIDED, THROUGH-PENETRATION FIRESTOP SYSTEM AND MEMBRANE PENETRATION 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 REVIEW AND APPROVAL PRIOR TO INSTALLATION.

DO NOT CUT OR DAMAGE (E) CONCRETE SLAB TENDONS OR MILD REINFORCEMENT. LOCATE (E) TENDONS AND MILD REINFORCEMENT PRIOR CORE DRILLING OR INSTALLING ANCHORS IN CONCRETE FLOOR SLABS OR WALLS.

SYSTEM No. C-AJ-8123
JUNE 19, 2007
T RATING - 1/4 Hr
F RATING - 2 Hr



SECTION A-A

1. FLOOR OR WALL ASSEMBLY - MIN 4-1/2 IN. (114 MM) THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M³) CONCRETE. FLOOR ASSEMBLY MAY ALSO BE CONSTRUCTED OF ANY MIN 6 IN. (152 MM) THICK UL CLASSIFIED HOLLOW-CORE PRECAST CONCRETE UNITS*. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF OPENING 4 IN. (102 MM).

   SEE CONCRETE BLOCKS (CAZT) AND PRECAST CONCRETE UNITS (CFTV) CATEGORIES IN FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
2. STEEL SLEEVE (OPTIONAL) - NOM 4 IN. (102 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY. STEEL SLEEVE MAY BE INSTALLED FLUSH OR MAY PROJECT MAX 2 IN. (51 MM) BEYOND THE FLOOR OR WALL SURFACES.
3. THROUGH PENETRANTS - A MAX OF TWO PIPES, CONDUITS OR TUBES TO BE INSTALLED WITHIN THE OPENING. ANNULAR SPACE BETWEEN THE PENETRANTS AND THE PERIPHERY OF THE OPENING SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 2 IN. (0 MM TO MAX 51 MM). PENETRANTS TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
   A. STEEL PIPE- - NOM 1 IN. (25 MM) DIAM (OR SMALLER) SCHEDULE 5 (OR HEAVIER) STEEL PIPE.
   B. IRON PIPE - NOM 1 IN. (25 MM) DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.
   C. CONDUIT - NOM 1 IN. (25 MM) DIAM (OR SMALLER) RIGID STEEL CONDUIT OR STEEL ELECTRICAL METALLIC TUBING (EMT).
   D. COPPER PIPE - NOM 1 IN. (25 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
   E. COPPER TUBE - NOM 1 IN. (25 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBE.
4. TUBE INSULATION-PLASTICS* - A MAX OF ONE PIPE, TUBE OR CONDUIT TO BE PROVIDED WITH NOM 3/4 IN. (19 MM) THICK (OR LESS) ACRYLONITRILE BUTADIENE/POLYVINYL CHLORIDE (AB/PVC) FLEXIBLE FOAM FURNISHED IN THE FORM OF TUBING. THE ANNULAR SPACE BETWEEN THE INSULATED PENETRANT AND THE PERIPHERY OF THE OPENING SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 2 IN. (0 MM TO MAX 51 MM). THE ANNULAR SPACE BETWEEN INSULATED PENETRANTS AND NON-INSULATED PENETRANTS SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 2 IN. (0 MM TO MAX 51 MM).

   SEE PLASTICS (QMFZ2) CATEGORY IN THE RECOGNIZED COMPONENT DIRECTORY FOR NAMES OF MANUFACTURERS. ANY RECOGNIZED COMPONENT TUBE INSULATION MATERIAL MEETING THE ABOVE SPECIFICATIONS AND HAVING A UL 94 FLAMMABILITY CLASSIFICATION OF 94-5VA MAY BE USED.
5. CABLES - MAX TWO 8/C NO. 12 AWG (OR SMALLER) POWER AND CONTROL CABLES WITH XLPE OR PVC INSULATION WITH XLPE OR PVC JACKET. THE ANNULAR SPACE BETWEEN THE CABLE AND THE PERIPHERY OF THE OPENING SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 2 IN. (0 MM TO MAX 51 MM), THE ANNULAR SPACE BETWEEN CABLE AND INSULATED PENETRANTS SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 2 IN. (0 MM TO MAX 51 MM). THE ANNULAR SPACE BETWEEN CABLE AND NON-INSULATED PENETRANTS SHALL BE MIN 1/2 IN. TO MAX 2 IN. (13 MM TO MAX 51 MM).
6. FIRESTOP SYSTEM - THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS:
   A. PACKING MATERIAL - MIN 3 IN. (76 MM) THICKNESS OF MIN 4 PCF (64 KG/M³) MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR TOP EDGE OF SLEEVE OR FROM BOTH SURFACES OF WALL OR BOTH ENDS OF SLEEVE AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL. IN FLOORS CONSTRUCTED OF HOLLOW-CORE CONCRETE, PACKING MATERIAL TO BE RECESSED FROM TOP AND BOTTOM SURFACES OF FLOOR OR SLEEVE AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
   B. FILL, VOID OR CAVITY MATERIALS* - CAULK OR SEALANT - MIN 1/2 IN. (13 MM) THICKNESS OF CAULK APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR TOP EDGE OF SLEEVE OR WITH BOTH SURFACES OF WALL OR BOTH ENDS OF SLEEVES. IN FLOORS CONSTRUCTED OF HOLLOW-CORE CONCRETE, MIN 1/2 IN. (13 MM) THICKNESS OF CAULK APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP AND BOTTOM SURFACES OF FLOOR OR SLEEVE. MIN 1/4 IN. (6 MM) DIAM BEAD OF CAULK APPLIED TO THE PENETRANT/CONCRETE OR PENETRANT/SLEEVE INTERFACE AT THE POINT CONTACT LOCATION ON THE TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL OR HOLLOW-CORE CONCRETE.

PIPE THRU CONCRETE FLOOR PENETRATION DETAIL

1 SCALE: NONE

UC DAVIS HEALTH BUILDING DEPARTMENT
APPROVED
REVIEWED FOR CODE COMPLIANCE
The set of plans and specifications must be kept on the job site at all times and it is unlawful to make any changes or alterations to the approved set without written permission from the Building Department.
The approval of this plan and specifications SHALL NOT be held to permit or approve the violation of any University Policy or State Building Code.
BY: Paul R Menard AIA, CBO DATE: 1/10/2024
PROJECT #: UCDH-2023-0230
UC Davis Health
Sacramento, CA 95817

BUILDING OFFICIAL:

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

CAMPUS FIRE MARSHAL:

REGISTERED PROFESSIONAL ENGINEER — MICHAEL W. ANDERSON — No. M38626 — CIVIL — 09/30/25 — STATE OF CALIFORNIA

R&A ENGINEERING SOLUTIONS Inc
Architectural Consultants
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PROFESSIONAL OF RECORD:

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FACILITIES DESIGN & CONSTRUCTION
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SACRAMENTO, CALIFORNIA 95817
(916)734-7024

HGA
1200 R Street, Suite 100
Sacramento, California 95811
Telephone 916.787.5100

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

4150 V ST,
SACRAMENTO, CA 95817

ACCOUNT NO.: AC 9559630
BLD (DNG): PATIENT SUPPORT SERVICES BUILDING (PSSB) BLDG # 14
FLOOR/WING:
PROJECT TITLE: PSSB NETV2 UPGRADE
SHEET TITLE: MECHANICAL / PLUMBING DETAILS

ARCH. / ENGR.	FD&C JOB NO.	
HGA	9559630	
UCDMC PROJECT MANAGER: KEN PICKETT	SCALE: AS SHOWN	MP603
DESIGNED BY: ANJ	DATE: JUNE 16, 2023	
DRAWN BY: ADK	HGA COMMISSION NO.: 1500-159-01	SHEET / OF

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TELECOM GENERAL NOTES:

1. THE PURPOSE OF THIS SHEET IS TO ILLUSTRATE AND DEFINE TYPICAL GRAPHIC SYMBOLS AND SYSTEMS OF GRAPHIC SYMBOLS WHICH MAY OCCUR ON THE TELECOMMUNICATIONS DRAWINGS. THE ILLUSTRATION OF A SYMBOL OR SYSTEM OF SYMBOLS ON THIS SHEET DOES NOT NECESSARILY INDICATE THAT THE BUILDING ITEM OF SYSTEM DESCRIBED BY THE SYMBOL IS USED AS PART OF THIS PROJECT. REFER TO THE PLANS, ELEVATIONS, SCHEDULES, DETAILS, AND SPECIFICATIONS TO DETERMINE THE SCOPE OF WORK.
2. THE WORK - INCLUDING MATERIALS, METHODS, ASSEMBLIES, ETC., - MUST COMPLY WITH THE MINIMUM REQUIREMENTS OF THE GOVERNING LAWS, ORDINANCES, AND REGULATIONS OF ALL FEDERAL, STATE, DISTRICT, AND LOCAL AUTHORITIES HAVING JURISDICTION OVER THE PROJECT, AS WELL AS THOSE GREATER REQUIREMENTS INDICATED BY THE CONTRACT DOCUMENTS. NO PART OF THE CONTRACT DOCUMENTS MAY BE CONSTRUED TO REQUIRE OR PERMIT WORK CONTRARY TO A GOVERNING LAW, ORDINANCE, OR REGULATION.
3. THE TELECOMMUNICATION DRAWINGS ARE PART OF A LARGER SET OF ARCHITECTURAL DRAWINGS THAT, AS A COMPLETE SET, CONSISTS OF DRAWINGS LISTED BY THE "INDEX OF DRAWINGS". THE WORK DESCRIBED BY THE DRAWINGS OF ANY ONE DISCIPLINE MAY BE AFFECTED BY THE WORK AND REQUIREMENTS DESCRIBED ON DRAWINGS OF ANOTHER DISCIPLINE AND MAY REQUIRE REFERENCE TO THE DRAWINGS OF ANOTHER DISCIPLINE. PARTIAL SETS OF DRAWINGS ARE INCOMPLETE AND SHOULD NOT BE DISTRIBUTED OR UTILIZED BY THE CONTRACTOR. MANAGE SUPERVISE, REVIEW, AND COORDINATE THE WORK OF SUB-CONTRACTORS, TRADES, AND SUPPLIERS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BEFORE COMMENCING CONSTRUCTION. ENSURE ALL TRADES ARE AWARE OF REQUIREMENTS WHICH MAY AFFECT THE WORK OR ANOTHER TRADE.
4. THE ARCHITECTURAL DRAWINGS ESTABLISH AND COORDINATE THE FINISHED APPEARANCE AND EXACT LOCATION OF EXPOSED ELEMENTS OF THE WORK OF TRADES, INCLUDING THAT WORK THAT IS ILLUSTRATED PRIMARILY ON THESE DRAWINGS. LOCATIONS SHOWN ON THESE DRAWINGS ARE DIAGRAMMATIC. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT PLACEMENT OF DEVICES UNLESS OTHERWISE NOTED.
5. MAINTAIN A COPY OF THE SPECIFICATIONS AND DRAWINGS AT THE JOB SITE. PRESENT THE SPECIFICATIONS AND DRAWINGS UPON REQUEST. MAINTAIN DAILY MARKUPS OF ACTUAL INSTALLATION AND PRESENT FOR REVIEW UPON REQUEST.
6. REFER TO WRITTEN SPECIFICATIONS FOR PROJECT SCOPE, GENERAL REQUIREMENTS, PRODUCT SPECIFICATIONS, AND INSTALLATION REQUIREMENTS.
7. PROVIDE NECESSARY EQUIPMENT AND ACCESSORIES FOR A FULLY FUNCTIONAL SYSTEM THAT MEETS INTENDED DESIGN WHETHER EXPRESSLY SPECIFIED OR NOT.
8. MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITERS LABORATORIES FOR THE PURPOSE USED AND SHALL BEAR THEIR LABEL.
9. IMMEDIATELY REPORT (NOTIFY IN WRITING) TO THE OWNER/ARCHITECT OBSERVATIONS OR CONDITIONS THAT ARE DISCOVERED THAT WOULD PREVENT INSTALLATION ACCORDING TO DRAWINGS AND/OR SPECIFICATIONS PRIOR TO WORK BEING PERFORMED.
10. BRING A SET OF MARKED UP PLANS TO WEEKLY CONSTRUCTION MEETINGS FOR OWNER'S APPROVAL PRIOR TO PRODUCTION OF AS-BUILT DRAWINGS FOR RECORD DOCUMENTATION.
11. REMOVE ABANDONED CABLING AND LEFT OVER CONDUIT, WIRE, SCAPS, ETC. AND LEAVE PREMISES CLEAN AND FREE OF TRASH OR DEBRIS RESULTING FROM WORK.
12. MINIMUM BEND RADIUS FOR 1 1/4" TELECOM CONDUITS IS 18".

DEMOLITION NOTES

DEMOLITION DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION AND EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING EXISTING INSTALLATION.

DISCONNECT ELECTRICAL SYSTEMS IN WALLS, FLOORS AND CEILINGS SCHEDULED FOR REMOVAL.

PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION.

REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.

REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK. ANY FIRE RESISTANCE RATED CONSTRUCTION DAMAGED DURING THE SCOPE OF WORK SHALL BE REPAIRED TO MATCH THE EXISTING RATED CONDITION PER 2022 CFC SECTION 703.1.

R1

REMOVE EXPOSED ABANDONED WIRE AND CABLE. PATCH SURFACES WHERE REMOVED CABLES PASS THROUGH BUILDING FINISHES.

DISCONNECT ABANDONED CIRCUITS, OUTLETS AND REMOVE CIRCUIT DEVICES, WIRE AND CABLE. REMOVE ABANDONED BOXES, OUTLETS IF RACEWAY, WIRE AND CABLE SERVICING THEM IS ABANDONED AND REMOVED. PROVIDE BLANK COVER FOR ABANDONED BOXES WHICH ARE NOT REMOVED.

ENSURE ACCESS TO EXISTING BOXES, WIRING CONNECTIONS AND OTHER INSTALLATIONS WHICH ARE TO REMAIN ACTIVE AND WHICH REQUIRE ACCESS. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.

TELECOM DEMOLITION NOTES

1. DEMOLITION DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION AND EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING EXISTING INSTALLATION.
2. DISCONNECT TELECOMMUNICATIONS SYSTEMS IN WALLS, FLOORS AND CEILINGS SCHEDULED FOR REMOVAL.
3. REMOVE AND RELOCATE EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.
4. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION WORK.
5. REMOVE ABANDONED WIRE AND CABLE. PATCH SURFACES WHERE REMOVED CABLES PASS THROUGH BUILDING FINISHES.
6. DISCONNECT ABANDONED OUTLETS AND REMOVE DEVICES, WIRE AND CABLE. REMOVE ABANDONED BOXES, OUTLETS IF RACEWAY, WIRE AND CABLE SERVICING THEM IS ABANDONED AND REMOVED. PROVIDE BLANK COVER FOR ABANDONED BOXES WHICH ARE NOT REMOVED.
7. ENSURE ACCESS TO EXISTING BOXES, WIRING CONNECTIONS AND OTHER INSTALLATIONS WHICH ARE TO REMAIN ACTIVE AND WHICH REQUIRE ACCESS. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.

GENERAL NOTES

THE CONTRACTOR SHALL VISIT JOB SITE AND VERIFY CONDITIONS BEFORE BIDDING.

THE FACILITY SHALL REMAIN IN OPERATION DURING ALL PHASES OF WORK. WHERE SYSTEM SHUTDOWNS AND POWER OUTAGES ARE UNAVOIDABLE, SUCH WORK SHALL BE SCHEDULED WITH THE FACILITY MANAGER AND SHALL OCCUR AT SUCH TIMES AS TO CAUSE THE LEAST DISRUPTION OF NORMAL FACILITY FUNCTIONS. INCLUDE ALL PREMIUM LABOR IN BID PROPOSAL TO COVER WORK REQUIRED TO BE PERFORMED BEFORE OR AFTER "NORMAL" WORKING HOURS.

COORDINATE SEQUENCE OF WORK WITH OWNER. MAKE ALL NECESSARY CONNECTIONS AS REQUIRED TO MAINTAIN POWER DURING THE STAGES OF WORK.

EXISTING DEVICES SHOWN WERE TAKEN FROM EXISTING DRAWINGS (NOT "AS BUILT" DRAWINGS) AND LIMITED SITE SURVEYS AND MAY NOT BE EXACTLY AS SHOWN. CONTRACTOR SHALL VISIT JOB SITE AND VERIFY CONDITIONS PRIOR TO BIDDING.

REFER TO THOSE DRAWINGS SHOWING OTHER WORK, AND COORDINATE PLACEMENT OF WORK WITH THAT OF OTHER TRADES. REPORT ANY CONFLICT TO ARCHITECT PRIOR TO INSTALLING WORK, ADJUST WORK AS DIRECTED BY ARCHITECT.

EXISTING DEVICES SHOWN WITH INCOMPLETE, OR WITHOUT BRANCH CIRCUITRY WHERE INSTALLED AND/OR ALTERED BY OWNER. CONTRACTOR SHALL RELOCATE EXISTING BRANCH CIRCUITRY AND MAKE ALL NECESSARY RECONNECTIONS AS REQUIRED TO FACILITATE REMODEL. VERIFY ALL WORK REQUIRED ON THE JOB AND RECORD ON RECORD DRAWINGS.

R1 CORE DRILL EXISTING WALLS AND FLOORS AS REQUIRED TO FACILITATE CONDUIT INSTALLATION. SEAL ALL PENETRATIONS WATER AND SMOKE TIGHT AND IN CONFORMANCE WITH CBC SECTION 714.1 AND C.E.C. 300.21. FIRE STOP MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE STATE FIRE MARSHAL. NO REBAR SHALL BE CUT DURING CORE DRILL OPERATION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING NEW FIRE STOPPING OF ALL NEW OR EXISTING CONDUIT OR CABLE PENETRATIONS IN NEW OR EXISTING FIRE RATED WALLS WITHIN THE LIMITS OF WORK.

REMOVE AND REINSTALL EXISTING LIGHT FIXTURES AS REQUIRED TO FACILITATE INSTALLATION OF WORK OF OTHER TRADES UNDER THIS PROJECT. VERIFY ALL WORK REQUIRED ON THE JOB.

ALL EQUIPMENT INSTALLED OR CONNECTED BY THE CONTRACTOR SHALL BE LABELED OR CERTIFIED FOR ITS USE BY A NATIONALLY RECOGNIZED TESTING LABORATORY.

EMERGENCY SYSTEM WIRING SHALL BE KEPT ENTIRELY INDEPENDENT OF ALL OTHER WIRING. WIRING SHALL NOT ENTER THE SAME RACEWAY, BOX OR CABINET WITH OTHER WIRING PER CEC 517.30(C). PROVIDE PERMANENT SEPARATION BARRIER OR SEPARATE TERMINAL BOX AS REQUIRED PER CEC 314.28(D).

NO PIPING, DUCTS, EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL APPURTENANCES SHALL BE IN THE DEDICATED SPACE FOR SWITCHBOARD(S), PANELBOARD(S), AND/OR MOTOR CONTROL CENTER(S) PER CEC 110.26(F).

UNLESS OTHERWISE INDICATED, ALL 20 AMP 120 OR 277 VOLT BRANCH CIRCUITS SHALL HAVE DEDICATED NEUTRALS. DO NOT SHARE NEUTRALS.

CONTRACTOR SHALL COMPLETE PANEL CIRCUIT DIRECTORY, IDENTIFYING CIRCUIT SPECIFIC PURPOSE, LOCATION AND ROOM NUMBERS.

TELECOM PATHWAYS:

1. INSTALL EQUIPMENT, DEVICES, AND PATHWAYS, SUCH AS CABLE TRAY, RUNWAY, CONDUITS, CABLE HANGERS, AND PULLBOXES, ETC., ACCORDING TO STATE AND LOCAL CODES FOR SEISMIC BRACING.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT U.O.N., WHETHER SPECIFICALLY SHOWN ON DRAWINGS OR NOT, TO RESULT IN A COMPLETE INSTALLATION.
3. CONDUIT ROUTING, WHERE SHOWN ON DRAWINGS IS DIAGRAMMATIC IN NATURE. FIELD DETERMINE CONDUIT ROUTES TO SUIT FIELD CONDITIONS WHILE CONFORMING TO SPECIFICATIONS. PROVIDE CONDUIT WHETHER OR NOT SHOWN ON DRAWINGS. PREPARE SHOP DRAWINGS SHOWING EXACT CONDUIT ROUTES, INDICATING PENETRATION TYPES (eg., FRAMED WALL, CONCRETE WALL, ETC.). COORDINATE REQUIREMENTS OF OTHER TRADES.
4. CONFORM TO CONDUIT INSTALLATION INSTRUCTIONS OF ANSI / TIA - 569D AND BICSI TDMM.
5. ROUTE CONDUIT, CABLE TRAYS, AND OTHER PATHWAYS PERPENDICULAR OR PARALLEL TO BUILDING LINES.
6. CONDUIT RUNS SHALL NOT EXCEED 180 DEGREES OR TWO 90-DEGREE BENDS WITHOUT AN APPROPRIATE PULL BOX (APPROPRIATE MEANS, FOR EXAMPLE, PRE-CAST FOR SITE/UNDERGROUND PATHWAYS OR NEMA-RATED FOR A SPECIFIC INSTALLATION ENVIRONMENT) AND OR INCREASE CONDUIT BY ONE TRADE SIZE FOR EACH ADDITIONAL BEND.
7. WHEN ROUTING CONDUIT IN CONCRETE, MAINTAIN A GRADUATED BEND RADIUS TO MAINTAIN CONDUIT CAPACITY. 90-DEGREE 'ELBOW' FITTINGS ARE EXPRESSLY PROHIBITED UNLESS PRIOR AUTHORIZATION IS RECEIVED FROM OWNER IN WRITING.
8. R1 FIRE SEAL CONDUIT AND RACEWAY PENETRATIONS THROUGH FIRE-RATED WALLS AND FLOORS TO MAINTAIN THE FIRE SEPARATION RATING. FIRE SEALING ASSEMBLIES SHALL BE U.L. LISTED FOR THE APPLICATION. COORDINATE REQUIREMENTS WITH STATE FIRE MARSHALL PRIOR TO INSTALLATION.
9. PROVIDE EXPANSION/DEFLECTION FITTINGS FOR CONDUITS AT STRUCTURAL EXPANSION JOINT CROSSINGS.
10. PROVIDE PLASTIC BUSHINGS ON EXPOSED ENDS OF CONDUIT AND SLEEVES, WHETHER VISIBLE OR NOT.
11. TELECOMMUNICATIONS BACKBONE CONDUITS SHALL BE EMT 4" TRADE SIZE, U.O.N.
12. MINIMUM CONDUIT SIZE FOR HORIZONTAL DISTRIBUTION COMMUNICATIONS DEVICES SHALL BE 1" TRADE SIZE U.O.N. CONSOLIDATION OF CONDUITS WILL BE ALLOWED WHEN EQUAL OR GREATER CONSOLIDATED AREA IS PROVIDED.
13. PROVIDE DEDICATED CONDUIT STUB PER TELECOMMUNICATIONS DEVICE BOX. DAISY-CHAINNING DEVICE BOXES IS PROHIBITED UNLESS SPECIFICALLY NOTED ON FLOOR PLANS.
14. CONDULET ("LB", ETC.) FITTINGS ARE EXPRESSLY PROHIBITED FOR BACKBONE AND HORIZONTAL SYSTEM PATHWAYS.
15. PROVIDE A PULL STRING IN ALL DISTRIBUTION CONDUITS AND CONDUITS SERVING TELECOMMUNICATIONS DEVICES SUITABLE FOR A 200 LB PULL TENSION MINIMUM.
16. PROVIDE DEDICATED SUPPORTS (e.g., CLIPS & WIRES) FOR J-HOOKS, HANGERS (OR SIMILAR PATHWAY COMPONENTS) INTENDED FOR TELECOMMUNICATIONS CABLES. DO NOT SHARE SUPPORTS WITH OTHER TRADES/SYSTEMS.

STANDARD ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
	SUSPENDED LED LUMINAIRE.
	LUMINAIRE SHADING INDICATES LUMINAIRE CONNECTED TO EMERGENCY POWER SOURCE.
B	LUMINAIRE TAG, LETTER INDICATES TYPE, SEE LUMINAIRE SCHEDULE.
S	SINGLE POLE TOGGLE SWITCH, MOUNTED +44" ABOVE FINISHED FLOOR TO CENTER OF BOX.
S_2	TWO POLE TOGGLE SWITCH, MOUNTED +44" ABOVE FINISHED FLOOR TO CENTER OF BOX.
S_3	THREE WAY TOGGLE SWITCH, MOUNTED +44" ABOVE FINISHED FLOOR TO CENTER OF BOX.
	20 AMP 125V 3W DUPLEX CONVENIENCE RECEPTACLE, MOUNTED +18" ABOVE FINISHED FLOOR TO CENTER OF BOX.
	20 AMP 125V 3W DUPLEX CONVENIENCE RECEPTACLE, MOUNTED +18" ABOVE FINISHED FLOOR TO CENTER OF BOX. CONNECT TO EMERGENCY POWER SOURCE.
	20 AMP 125V 3W DOUBLE DUPLEX CONVENIENCE RECEPTACLE, MOUNTED +18" ABOVE FINISHED FLOOR TO CENTER OF BOX.
	20 AMP 125V 3W DOUBLE DUPLEX CONVENIENCE RECEPTACLE, MOUNTED +18" ABOVE FINISHED FLOOR TO CENTER OF BOX. CONNECT TO EMERGENCY POWER SOURCE.
	20 AMP 125V 3W DUPLEX CONVENIENCE RECEPTACLE, MOUNTED +18" ABOVE FINISHED FLOOR TO CENTER OF BOX WITH GROUND FAULT INTERRUPTER.
	20 AMP 125V 3W DUPLEX CONVENIENCE RECEPTACLE, MOUNTED +18" ABOVE FINISHED FLOOR TO CENTER OF BOX WITH GROUND FAULT INTERRUPTER. CONNECT TO EMERGENCY POWER SOURCE.
	XX/XX AMP XXXV X RECEPTACLE, MOUNTED +18" ABOVE FINISHED FLOOR TO CENTER OF BOX.
J	JUNCTION BOX, SIZE AND TYPE AS INDICATED OR REQUIRED.
X	NON FUSED DISCONNECT SWITCH. NUMBER ADJACENT INDICATES AMPERE RATING OF SWITCH.
X	FUSED DISCONNECT SWITCH WITH CLASS 'R' DUAL ELEMENT FUSES, SIZE TO SUIT EQUIPMENT NAME PLATE RATING. NUMBER ADJACENT INDICATES AMPERE RATING OF SWITCH.
X	THERMAL MAGNETIC CIRCUIT BREAKER DISCONNECT. NUMBER ADJACENT INDICATES AMPERE RATING OF SWITCH.
	CONTROL AND/OR EQUIPMENT, N.I.E.S., INSTALL AND CONNECT AS REQUIRED.
	DISTRIBUTION PANEL/MOTOR CONTROL CENTER.
	BRANCH CIRCUIT PANELBOARD, SURFACE MOUNTED.
	BRANCH CIRCUIT PANELBOARD, FLUSH MOUNTED.
	TERMINAL CABINET, SURFACE MOUNTED, SIZE AND TYPE AS INDICATED.
	TERMINAL CABINET, FLUSH MOUNTED, SIZE AND TYPE AS INDICATED.
	GROUND BUS BAR.
N.I.E.S.	NOT IN ELECTRICAL SECTION OF THESE PLANS AND SPEC'S.
MT	EMPTY CONDUIT WITH PULL-LINE.
WP	WEATHERPROOF, DAMP OR WET LOCATION AS REQUIRED.
'G'	GREEN INSULATED GROUND WIRE, #12 AWG UNLESS NOTED.
AFF	ABOVE FINISHED FLOOR.
NL	NIGHT LIGHT.
(E)	EXISTING.
(N)	NEW.
(D)	DEMOLISH.
(R)	RELOCATE.
(ER)	EXISTING RELOCATED IN LOCATION SHOWN.
(P)	PARTIAL CIRCUIT.

STANDARD ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
#	TELEPHONE/DATA OUTLET, 4 11/16" SQUARE X 2 1/8" DEEP JUNCTION BOX WITH 1-GANG DEVICE RING AND PLATE. MOUNTED +18" ABOVE FINISHED FLOOR TO CENTER OF JUNCTION BOX. STUB 1 1/4" CONDUIT 6" INTO ACCESSIBLE CEILING SPACE FROM JUNCTION BOX. TERMINATE RACEWAY WITH INSULATING BUSHINGS. '#'- DENOTES QUANTITY OF CAT 6A.
WAP	WIRELESS ACCESS POINT, SURFACE MOUNTED. PROVIDE QTY. (2) CAT6A CABLES TERMINATED TO A SURFACE MOUNTED BOX 'SMB' ATTACHED TO J-HOOK SUPPORT.
	TELEPHONE TERMINAL BACKBOARD, 4'x8'x3/4" PLYWOOD WITH 1/2"C - 1 #6 'G' TO GROUND BAR.
	EQUIPMENT RACK. SEE PLANS FOR SEISMIC VS NON SEISMIC CALL OUT AND SIZE. SEE SPECIFICATIONS FOR MANUFACTURER, MAKE, AND MODEL.
	VERTICAL WIRE MANAGER. SEE SPECIFICATIONS FOR MANUFACTURER FOR MAKE AND MODEL.
	CABLE RUNWAY / LADDER RACK IN TELECOM ROOMS.
	CABLE TRAY IN CORRIDORS.
TV	TELEVISION OUTLET, MOUNTED +84" ABOVE FINISHED FLOOR TO CENTER OF BOX.
XX	NUMBERED NOTE.
	EQUIPMENT DESIGNATION
	RACEWAY INSTALLED IN CEILING OR WALL. ROUTE EXPOSED IN ALL UNFINISHED AREAS.
	RACEWAY INSTALLED BELOW FINISHED FLOOR OR GRADE.
	EXISTING CONDUIT RUN TO BE ABANDONED. CONDUIT ABOVE THE FLOOR AND BELOW THE STRUCTURE ABOVE SHALL BE REMOVED.
	EXISTING CONDUIT RUN, VERIFY ROUTING ON THE JOB.
	REMOVE (E) WIRE PULL NEW WIRES, #12 AWG UNLESS NOTED.
J	J-HOOK PATHWAY. SEE PLANS FOR PRIMARY VS SECONDARY CALL OUTS AND J-HOOK SIZES.
	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.
	CONDUIT RACEWAY SLEEVE.
	INDICATES RACEWAY TURNING UP.
	INDICATES RACEWAY TURNING DOWN.
	INDICATES RACEWAY STUB. TERMINATE WITH BUSHING OR CAP IF UNDERGROUND.
	EZ PATH FIRE RATED PENETRATION. SEE PLANS FOR SIZES (SERIES 44, SERIES 33, ETC.) AND QUANTITIES.

UC DAVIS HEALTH BUILDING DEPARTMENT

APPROVED

REVIEWED FOR CODE COMPLIANCE

The set of plans and specifications must be kept on the job site at all times and it is unlawful to make any changes or alterations to the approved set without written permission from the Building Department.
The approval of this plan and specifications SHALL NOT be held to permit or approve the violation of any University Policy or State Building Code.

BY: Paul R Menard AIA, CBO DATE: 1/10/2024

PROJECT #: UCDH-2023-0230

UC Davis Health
Sacramento, CA 95817

BUILDING OFFICIAL

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY

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CAMPUS FIRE MARSHAL

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JOB NO. 22-Q141.00 PM. AD
DESIGNERS AD
DRAWN BY ECOM

REGISTERED PROFESSIONAL ENGINEER BENJAMIN SCHLENKER No. E 021982 Exp. 9/30/25 ELECTRICAL STATE OF CALIFORNIA

PROFESSIONAL OF RECORD

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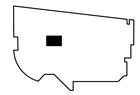
CONSULTANT LOGO

REV	REVISION DESCRIPTION	DATE
R1	RESUBMITTAL 01	10/27/2023
NO	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

4150 V ST,
SACRAMENTO, CA 95817



KEYPLAN

ACCOUNT NO. AC 9559630
BLDG (DNG) PATIENT SUPPORT SERVICES BUILDING (PSSB)
PROJECT TITLE PSSB NETV2 UPGRADE
SHEET TITLE SYMBOL LEGEND AND NOTES

ARCH. / ENGR.	FD&C JOB NO.	
HGA / ECOM	9559630	E0.1
UCDMC PROJECT MANAGER: KEN PICKETT	SCALE: AS SHOWN	
DESIGNED BY	DATE: OCT 27, 2023	
DRAWN BY	HGA COMMISSION NO.: 1500-159-01	SHEET / OF

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MECHANICAL EQUIPMENT SCHEDULE

ITEM	EQUIPMENT	VOLTAGE	HP	QUANTITY	FLA	KVA	REMARKS
CU 1	OUTDOOR CONDENSING / HEAT PUMP UNIT	208 / 1PHASE	--	1	20	4.16	--
CU 2	OUTDOOR CONDENSING / HEAT PUMP UNIT	208 / 1PHASE	--	1	15.2	3.16	--
CU 3	OUTDOOR CONDENSING / HEAT PUMP UNIT	208 / 1PHASE	--	1	15.2	3.16	--
CU 4	OUTDOOR CONDENSING / HEAT PUMP UNIT	208 / 1PHASE	--	1	15.2	3.16	--
FC 1	FAN COIL UNIT	208 / 1PHASE	--	1	0.57	0.12	POWERED FROM OUTDOOR CONDENSING UNIT.
FC 2	FAN COIL UNIT	208 / 1PHASE	--	1	0.36	0.07	POWERED FROM OUTDOOR CONDENSING UNIT.
FC 3	FAN COIL UNIT	208 / 1PHASE	--	1	0.36	0.07	POWERED FROM OUTDOOR CONDENSING UNIT.
FC 4	FAN COIL UNIT	208 / 1PHASE	--	1	0.36	0.07	POWERED FROM OUTDOOR CONDENSING UNIT.

ELECTRICAL EQUIPMENT SCHEDULE

EQUIPMENT	MANUFACTURER	DESCRIPTION	DETAIL NO.	WEIGHT POUNDS	HEIGHT INCHES	WIDTH INCHES	DEPTH INCHES	REMARKS
UPS 'UPS'	VERTIV LIEBERT	10 TO 40 KVA SCALABLE UPS (208V IN : 208V OUT)	E7.9-E7.11	8,749	78.7	78.9	39.1	FLOOR MT'D. COORDINATE WITH UCDH IT ON SCALABLE SIZE. (R1)
PANEL '3LE'	SQUARE D	208/120V, 100A BRANCH CIRCUIT PANELBOARD	E7.9-E7.11	150	44.0	20.0	5.75	WALL MT'D

LUMINAIRE SCHEDULE

TAG	MANUFACTURER & CATALOG NUMBER	DESCRIPTION	MTG.	LAMP TYPE	LAMP No.	VOLTS	WATTS	REMARKS
A	LITHONIA CLX L48 4000LM SEF WDL MVOLT EZ1 35K 90CRI N100 WH	4' SUSPENDED LED LUMINAIRE	SUSPENDED	LED	N/A	UNV	25.5	

SEQUENCE OF WORK

THE BELOW PROPOSED SEQUENCE OF WORK IS TO GIVE THE CONTRACTOR TEAM AN IDEA OF HOW THE UNIVERSITY WOULD LIKE THEM TO PROCEED IN ORDER TO INCREASE EFFICIENCY AND ELIMINATE THE POSSIBILITY OF DOWNTIME DURING NORMAL BUSINESS HOURS OF THE BUILDING. IF THE CONTRACTOR WISHES TO MAKE ANY CHANGES TO THE BELOW SEQUENCE OF WORK TO AVOID DOWNTIME OR REDUCE THE DURATION OF CONSTRUCTION. PROVIDE THE UPDATED SEQUENCE OF WORK TO THE UNIVERSITY FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING.

UPS AND TELECOM ROOM

1. INSTALL (N) UPS, RACEWAY, AND JUNCTION BOXES AND PULL (N) UPS CIRCUITS TO EACH TELECOM ROOM. INSTALL CORD DROP RECEPTACLES AS INDICATED ON PLANS. NOTE THIS WORK MUST BE SCHEDULED WITH UCDH IT AND APPROPRIATE CHANGE CONTROLS OPENED AND APPROVED ON SITE WHILE ACTIVE EQUIPMENT RACKS ARE BEING HANDLED.
2. UNBOLT EXISTING EQUIPMENT RACKS AND ADJUST LOCATIONS AS SHOWN ON PLANS TO ACCOUNT FOR NEW LARGER VERTICAL WIRE MANAGERS. PATCH CONCRETE AS REQUIRED. NOTE THIS WORK MUST BE SCHEDULED WITH UCDH IT AND APPROPRIATE CHANGE CONTROLS OPENED AND APPROVED ON SITE WHILE ACTIVE EQUIPMENT RACKS ARE BEING HANDLED.
3. RE-BOLT ALL EXISTING TELECOM EQUIPMENT RACKS IN THEIR NEW LOCATIONS. INSTALL NEW EQUIPMENT RACK AND VERTICAL WIRE MANAGERS AS SHOWN ON PLANS. NOTE THIS WORK MUST BE SCHEDULED WITH UCDH IT AND APPROPRIATE CHANGE CONTROLS OPENED AND APPROVED ON SITE WHILE ACTIVE EQUIPMENT RACKS ARE BEING HANDLED.
4. REPLACE BONDING CONNECTORS AND ADD BONDING AS INDICATED ON PLANS TO PROPERLY BOND ALL EXISTING AND NEW TELECOM EQUIPMENT RACKS, LADDER RACKS, METAL ENCLOSURES, AND PATHWAYS IN THE ROOM PER SPECIFICATIONS.
5. REPLACE LIGHT FIXTURES IN THE SPACE WITH NEW LED LIGHTING.
6. REMOVE/ADD LADDER RACK IN TELECOM ROOM AS INDICATED ON PLANS.
7. INSTALL (N) SINGLE MODE FIBER OPTIC RISER CABLING AS INDICATED ON RISER DIAGRAM.
8. ONCE ALL ELECTRICAL AND INFRASTRUCTURE WORK IS COMPLETE COORDINATE WITH THE UNIVERSITY IT DEPARTMENT TO INSTALL OFOI TELECOM EQUIPMENT AND REPLACE OFOI IN-RACK CABLING.
9. CONTRACTOR TO COORDINATE WITH THE UNIVERSITY TO CUT OVER THE FIBER BACKBONE CABLING TO THE NEW LIU AND TELECOM EQUIPMENT.
10. REMOVAL OF OLD MULTI MODE FIBER OPTIC RISER CABLING TO BE COORDINATED WITH UCDH IT. SOME MULTI MODE FIBER CABLE WILL REMAIN.
11. EXISTING VOICE FIELD BACKBONE AND TIE CABLING TO REMAIN UNLESS DIRECTED OTHERWISE BY THE UNIVERSITY.

HORIZONTAL CABLING TO DATA OUTLETS

12. CONTRACTOR SHALL INSTALL (N) PRIMARY PATHWAYS AS INDICATED ON PLANS TO SUPPORT NEW REPLACEMENT CAT 6A CABLING.
14. EACH TELECOM ROOM HAS MULTIPLE SETS 2" CONDUITS TO ALLOW (E) HORIZONTAL CABLING TO BE ROUTED OUT OF THE TELECOM ROOM, ACROSS THE LOBBY AND INACCESSIBLE CEILING AREAS PRIOR TO TRANSFERRING TO J-HOOK PATHWAYS IN THE OFFICE AREAS. SEE SHEETS E1.0 THROUGH E1.3 FOR CONDUIT AND PULL BOX LOCATIONS.
15. CONTRACTOR SHALL INVESTIGATE AND FIELD VERIFY WHICH DATA OUTLETS EACH 2" CONDUIT SERVES. PROVIDE A TELECOM CABLING SHOP DRAWING OUTLINING THE CUT OVER PLAN TO THE UNIVERSITY FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING.
16. THE PROPOSED APPROACH IS TO REMOVE ALL (E) HORIZONTAL CABLING ASSOCIATED WITH A 2" CONDUIT, PULL IN REPLACEMENT CAT 6A CABLING TO THE (E) DATA OUTLETS, TEST, AND TERMINATE DURING OFF HOURS.
17. EXISTING VOICE CABLING SHALL REMAIN UNLESS DIRECTED OTHERWISE BY THE UNIVERSITY.

SHEET INDEX

SHEET	DESCRIPTION
E0.1	SYMBOL LEGEND AND NOTES
E0.2	SCHEDULES
E0.3	TITLE 24 LIGHTING COMPLIANCE FORMS
E1.0	OVERALL BASEMENT FLOOR PLAN - ELECTRICAL
E1.1	OVERALL FIRST FLOOR PLAN - ELECTRICAL
E1.2	OVERALL SECOND FLOOR PLAN - ELECTRICAL
E1.3	OVERALL THIRD FLOOR PLAN - ELECTRICAL
E1.4	OVERALL ROOF PLAN - ELECTRICAL
E2.0	ENLARGED BASEMENT FLOOR PLANS - ELECTRICAL
E2.1	ENLARGED FIRST FLOOR PLANS - ELECTRICAL
E2.2	ENLARGED SECOND FLOOR PLANS - ELECTRICAL
E2.3	ENLARGED THIRD FLOOR PLANS - ELECTRICAL
E4.0	TELECOM BACKBONE RISER DIAGRAM
E5.0	PARTIAL ONE LINE DIAGRAM
E6.0	PANEL SCHEDULES
E7.1	DETAILS
E7.2	DETAILS
E7.3	DETAILS
E7.4	DETAILS
E7.5	DETAILS
E7.6	DETAILS

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JOB NO. 22-Q141.00 PM. AD
DESIGNERS AD
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REGISTERED PROFESSIONAL ENGINEER BENJAMIN SCHLENKER No. E 021982 Exp. 9/30/25 ELECTRICAL STATE OF CALIFORNIA
PROFESSIONAL OF RECORD

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

HGA
1200 R Street, Suite 100
Sacramento, California 95811
Telephone 916.787.5100

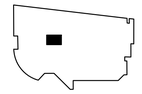
CONSULTANT LOGO

REV	REVISION DESCRIPTION	DATE
R1	RESUBMITTAL 01	10/27/2023
NO	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

4150 V ST,
SACRAMENTO, CA 95817



KEYPLAN

ACCOUNT NO. AC 9559630
BLD.(DNG) PATIENT SUPPORT SERVICES BUILDING (PSSB)
F.LOCK/WING
PROJECT TITLE: PSSB NETV2 UPGRADE
SHEET TITLE: SCHEDULES

ARCH. / ENGR. HGA / ECOM	FD&C JOB NO. 9559630	E0.2	
UCDMC PROJECT MANAGER KEN PICKETT	SCALE AS SHOWN		
DESIGNED BY	DATE OCT 27, 2023		
DRAWN BY	HGA COMMISSION NO. 1500-159-01	SHEET	OF

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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.	
Project Name: UCDH PSSB NET V2	**Report Page:** (Page 1 of 7)
Project Address: 4150 V STREET, SACRAMENTO, CA 95817	**Date Prepared:** 2023-05-19T14:10:39-04:00

A. GENERAL INFORMATION

01	Project Location (city)	04	Total Conditioned Floor Area (ft²)	658
02	Climate Zone	12	05 Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):	06	# of Stories (Habitable Above Grade)	4

● Healthcare Facility ● Office

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☐ New Lighting System	N/A	0	N/A	0
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
☒ Altered Lighting System	Area Category Method	658	N/A	0
Total Area of Work (ft²)	658			

Registration Number:
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Generated Date/Time:
Report Version: 2022.0.000
Schema Version: rev 20220101
Documentation Software: Energy Code Ace
Compliance ID: 109144-0523-0003
Report Generated: 2023-05-19 11:10:43

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: UCDH PSSB NET V2	**Report Page:** (Page 2 of 7)
	Date Prepared: 2023-05-19T14:10:39-04:00

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)						Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)				Compliance Results
	01	02	03	04	05		06	07		08	09
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	**Total Allowed** (Watts)		Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)		**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 140.6 / 170.2(e)**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)			
Conditioned		263.2			263.2	≥	255		=	255	COMPLIES
Unconditioned						≥			=		
Controls Compliance (See Table H for Details)											COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)											

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Registration Number:
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Generated Date/Time:
Report Version: 2022.0.000
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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: UCDH PSSB NET V2	**Report Page:** (Page 3 of 7)
	Date Prepared: 2023-05-19T14:10:39-04:00

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
									Field Inspector	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Pass	Fail
A	4' SUSPENDED LED LUMINAIRE	No	NA	25.5	Mfr. Spec	10	No	255	☐	☐
							Total Designed Watts: CONDITIONED SPACES	255		

[1] *FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2] *Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
		Field Inspector	
		Pass	Fail
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	☐	☐
NA < 4,000W subject to multilevel	See Area/Space Level Controls		

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Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: UCDH PSSB NET V2	**Report Page:** (Page 4 of 7)
	Date Prepared: 2023-05-19T14:10:39-04:00

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
								Field Inspector	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Pass	Fail
TELEPHONE EQUIPMENT	Electrical Mechancial Telephone Room	Readily Accessible	NA: Licensed Healthcare	NA: Elec. equip. rm	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
					13				
					Plan Sheet Showing Daylit Zones:				

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06	
					Additional Allowance / Adjustment	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Area Category	PAF
TELEPHONE EQUIPMENT	Electrical Mechancial Telephone Room	0.4	658	263.2	No	No
	TOTALS:		658	263.2	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

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STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: UCDH PSSB NET V2	**Report Page:** (Page 5 of 7)
	Date Prepared: 2023-05-19T14:10:39-04:00

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

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CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: UCDH PSSB NET V2	**Report Page:** (Page 6 of 7)
	Date Prepared: 2023-05-19T14:10:39-04:00

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-LTI-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

Registration Number:
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Generated Date/Time:
Report Version: 2022.0.000
Schema Version: rev 20220101
Documentation Software: Energy Code Ace
Compliance ID: 109144-0523-0003
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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: UCDH PSSB NET V2	**Report Page:** (Page 7 of 7)
Project Address: 4150 V STREET, SACRAMENTO, CA 95817	**Date Prepared:** 2023-05-19T14:10:39-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: BEN SCHLENKER	Documentation Author Signature: Ben Schlenker
Company: ECOM Engineering Inc.	Signature Date: 2023-05-19
Address: 1455 RESPONSE ROAD, SUITE 140	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: SACRAMENTO, CA 95815	Phone: (916) 641-5600

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Responsible Designer Signature: Ben Schlenker
Company: ECOM Engineering, Inc.	Date Signed: 2023-05-19
Address: 1455 RESPONSE ROAD, SUITE 140	License: E 021982
City/State/Zip: SACRAMENTO, CA 95815	Phone: (916) 641-5600

Registration Number:
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
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Compliance ID: 109144-0523-0003
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BUILDING OFFICIAL

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Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

CAMPUS FIRE MARSHAL

ECOM ENGINEERING
1796 Tribute Road, Suite 100
Sacramento, CA. 95815
916.641.5600
916.641.1640 Fax
www.ecomeng.com

JOB NO. 22-Q141.00 PM. AD
DESIGNERS AD
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REGISTERED PROFESSIONAL ENGINEER — BENJAMIN SCHLENKER — No. E 021982 — Exp. 9/30/23 — ELECTRICAL — STATE OF CALIFORNIA

PROFESSIONAL OF RECORD

UC DAVIS HEALTH
Facilities Design & Construction
4800 2nd Avenue, Suite 3010
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(916)734-9034

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Telephone 916.787.5100
CONSULTANT LOGO

REV	REVISION DESCRIPTION	DATE
△NO	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

4150 V ST,
SACRAMENTO, CA 95817

ACCOUNT NO. AC 9559630
BUILDING PATIENT SUPPORT SERVICES BUILDING (PSSB) BLDG # 14
FLOOR/WING
PROJECT TITLE: PSSB NETV2 UPGRADE
SHEET TITLE: TITLE 24 LIGHTING COMPLIANCE FORMS

ARCH. / ENGR.	FD&C JOB NO.	
HGA / ECOM	9559630	
UCDMC PROJECT MANAGER: KEN PICKETT	SCALE: AS SHOWN	E0.3
DESIGNED BY	DATE: JUNE 16, 2023	
DRAWN BY	HGA COMMISSION NO. 1500-159-01	SHEET / OF

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SHEET NOTES

1. CONTRACTOR TO CUTOVER EXISTING DATA OUTLETS SHOWN ON PLANS FROM OLD CATEGORY CABLING TO NEW CAT6A CABLING DURING OFF- BUSINESS HOURS. DATA OUTLETS ARE NOT PERMITTED TO BE INACTIVE DURING BUSINESS HOURS.
2. REPLACE OLD CATEGORY DATA AND VOICE JACKS WITH NEW CAT6A DATA JACKS IN EXISTING TELE/DATA PLATES.
3. ALL TELE/DATA OUTLETS TO REMAIN FUNCTIONAL DURING NORMAL BUSINESS HOURS. ALL CUTOVERS TO OCCUR AFTER BUSINESS HOURS.
4. UTILIZE EMT CONDUIT SLEEVES FOR ANY NON-RATED FULL HEIGHT WALLS.
5. SEE ARCHITECT PLANS FOR ALL FIRE RATED WALL LOCATIONS AND RATINGS.
6. PROVIDE NEW CAT6A CABLING, SMB AND DATA JACKS FOR EXISTING WIRELESS ACCESS POINTS.
7. TYPICAL, ALL DEVICES SHOWN ARE EXISTING UNLESS OTHERWISE NOTED AS NEW WITH AN 'N' TAG OR IDENTIFIED AS NEW ON THE SYMBOLS LIST ON SHEET E0.1.

NUMBERED NOTES

1. EXISTING RACEWAY STUBBED OUT FROM TELECOM ROOM TO REMAIN. USE FOR ROUTING REPLACEMENT CAT 6A CABLING ACROSS INACCESSIBLE AREAS AS EXISTING CATEGORY CABLING IS REMOVED AND REPLACED DURING CUT-OVER..
2. UTILIZE EXISTING SECONDARY J-HOOK PATHWAYS TO EXISTING DATA OUTLET LOCATIONS FOR REPLACEMENT CAT 6A CABLING IN ROOM TO EXTENT POSSIBLE. PROVIDE NEW J-HOOKS IF REQUIRED FOR CABLE CAPACITY OR TO ENSURE SPACING BETWEEN J-HOOK SUPPORTS TO BE 60" MAX AND WITHIN 12" OF EMT CONDUIT STUB UP FOR EXISTING DATA OUTLETS SHOWN IN ROOM.
3. NEW CENTRALIZED 208V, 3 PHASE, 10KVA-40KVA SCALABLE UPS. SEE ONE-LINE DIAGRAM ON SHEET E5.0 FOR UPS INTERCONNECTION TO THE BUILDING POWER DISTRIBUTION.
4. SEE ARCHITECT PLANS FOR REMOVAL/RELOCATION OF EXISTING CABINET IN ELECTRICAL ROOM TO MAKE SPACE FOR THE NEW CENTRALIZED UPS.
5. NEW 1" CONDUITS FROM UPS TO TELECOM ROOMS FOR NEW RACK RECEPTACLES. SEE SHEETS E1.1 THROUGH E1.3 FOR CONTINUATION OF ROUTING.
6. NEW PRIMARY 4" J-HOOK PATHWAY.



1 OVERALL BASEMENT FLOOR PLAN - ELECTRICAL
1/8" = 1'-0"

NORTH

UC DAVIS HEALTH BUILDING DEPARTMENT
APPROVED
REVIEWED FOR CODE COMPLIANCE
The set of plans and specifications must be kept on the job site at all times and it is unlawful to make any changes or alterations to the approved set without written permission from the Building Department.
The approval of this plan and specifications SHALL NOT be held to permit or approve the violation of any University Policy or State Building Code.
BY: Paul R Menard AIA, CBO DATE: 1/10/2024
PROJECT #: UCDH-2023-0230
UC Davis Health
Sacramento, CA 95817
BUILDING OFFICIAL:

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
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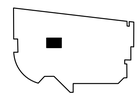
CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
NO	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

4150 V ST,
SACRAMENTO, CA 95817


KEYPLAN

ACCOUNT NO. AC 9559630
BUILDING: PATIENT SUPPORT SERVICES BUILDING (PSSB) BLDG # 14
FLOOR(S): GROUND FLOOR
PROJECT TITLE: PSSB NETV2 UPGRADE
SHEET TITLE: OVERALL BASEMENT FLOOR PLAN - ELECTRICAL

ARCH. / ENGR. HGA / ECOM	FD&C JOB NO. 9559630	E1.0	
UCDMC PROJECT MANAGER KEN PICKETT	SCALE AS SHOWN		
DESIGNED BY	DATE JUNE 16, 2023		
DRAWN BY	HGA COMMISSION NO. 1500-159-01	SHEET	OF

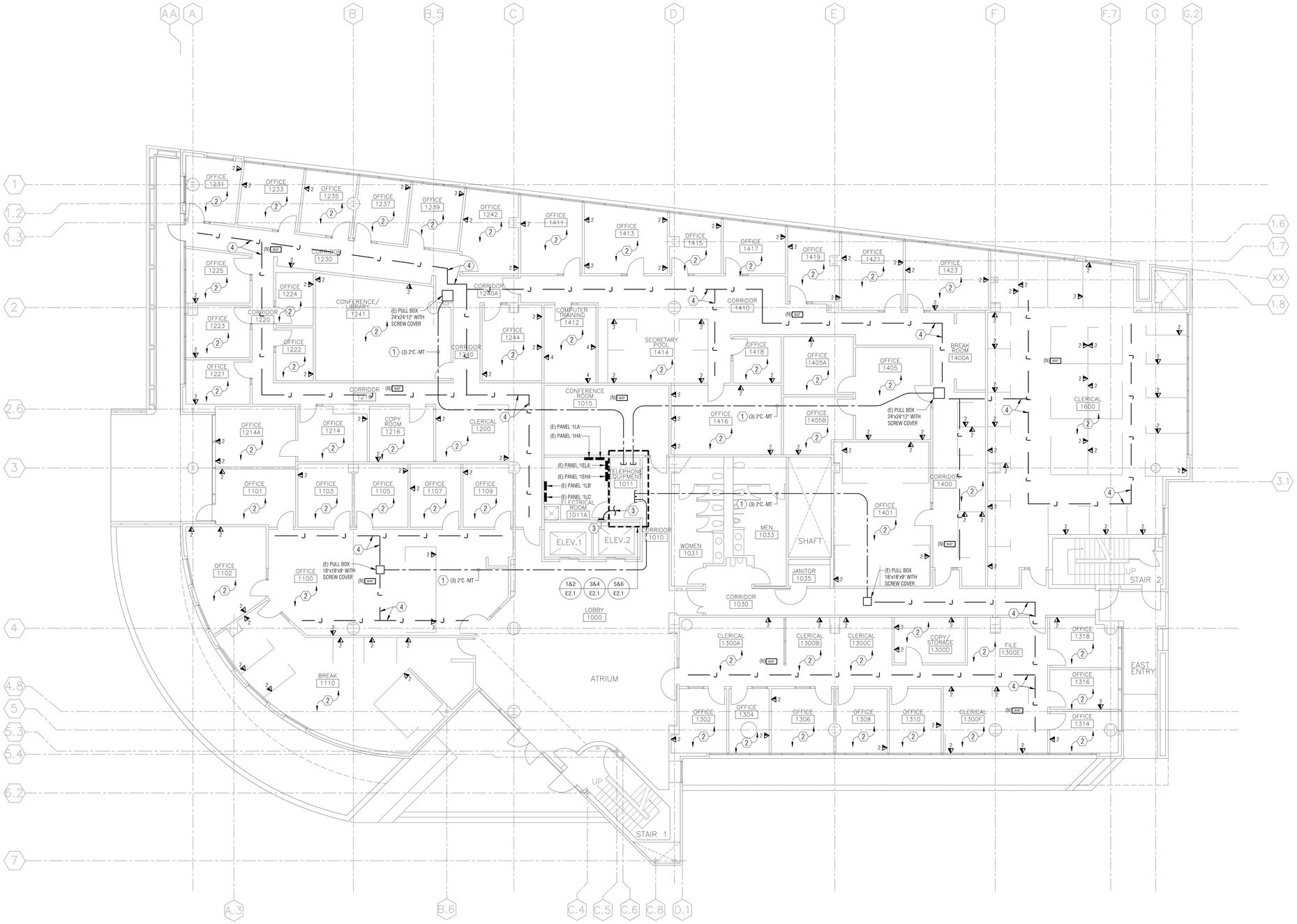
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SHEET NOTES

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NUMBERED NOTES

1. EXISTING RACEWAY STUBBED OUT FROM TELECOM ROOM TO REMAIN. USE FOR ROUTING REPLACEMENT CAT 6A CABLING ACROSS INACCESSIBLE AREAS AS EXISTING CATEGORY CABLING IS REMOVED AND REPLACED DURING CUT-OVER..
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3. NEW 1" CONDUITS FROM UPS TO TELECOM ROOM FOR NEW RACK RECEPTACLES. SEE SHEETS E1.0, E1.2 AND E1.3 FOR CONTINUATION OF ROUTING
4. NEW PRIMARY 4" J-HOOK PATHWAY.



1 OVERALL FIRST FLOOR PLAN - ELECTRICAL
1/8" = 1'-0"

NORTH

UC DAVIS HEALTH BUILDING DEPARTMENT
APPROVED
REVIEWED FOR CODE COMPLIANCE
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BY: Paul R Menard AIA, CBO DATE: 1/10/2024
PROJECT #: UCDH-2023-0230
UC Davis Health
Sacramento, CA 95817
BUILDING OFFICIAL:

OFFICE OF THE STATE FIRE MARSHAL
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REGISTERED PROFESSIONAL ENGINEER
BENJAMIN SCHLENKER
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Exp. 9/30/23
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PROFESSIONAL OF RECORD:

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Facilities Design & Construction
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Sacramento, California 95817
(916)734-7024

HGA
1200 R Street, Suite 100
Sacramento, California 95811
Telephone 916.787.5100

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
NO	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

4150 V ST,
SACRAMENTO, CA 95817

KEYPLAN

ACCOUNT NO: AC 9559630
BUILDING: PATIENT SUPPORT SERVICES BUILDING (PSSB) BLDG # 14
FLOOR/WING: FIRST FLOOR
PROJECT TITLE: PSSB NETV2 UPGRADE
SHEET TITLE: OVERALL FIRST FLOOR PLAN - ELECTRICAL

ARCH. / ENGR.	FD&C JOB NO.	
HGA / ECOM	9559630	E1.1
UCDMC PROJECT MANAGER: KEN PICKETT	SCALE: AS SHOWN	
DESIGNED BY	DATE: JUNE 16, 2023	
DRAWN BY	HGA COMMISSION NO. 1500-159-01	SHEET / OF

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SHEET NOTES

1. CONTRACTOR TO CUTOVER EXISTING DATA OUTLETS SHOWN ON PLANS FROM OLD CATEGORY CABLING TO NEW CAT6A CABLING DURING OFF- BUSINESS HOURS. DATA OUTLETS ARE NOT PERMITTED TO BE INACTIVE DURING BUSINESS HOURS.
2. REPLACE OLD CATEGORY DATA AND VOICE JACKS WITH NEW CAT6A DATA JACKS IN EXISTING TELE/DATA PLATES.
3. ALL TELE/DATA OUTLETS TO REMAIN FUNCTIONAL DURING NORMAL BUSINESS HOURS. ALL CUTOVERS TO OCCUR AFTER BUSINESS HOURS.
4. UTILIZE EMT CONDUIT SLEEVES FOR ANY NON-RATED FULL HEIGHT WALLS.
5. SEE ARCHITECT PLANS FOR ALL FIRE RATED WALL LOCATIONS AND RATINGS.
6. PROVIDE NEW CAT6A CABLING, SMB AND DATA JACKS FOR EXISTING WIRELESS ACCESS POINTS.
7. TYPICAL, ALL DEVICES SHOWN ARE EXISTING UNLESS OTHERWISE NOTED AS NEW WITH AN 'N' TAG OR IDENTIFIED AS NEW ON THE SYMBOLS LIST ON SHEET E0.1.

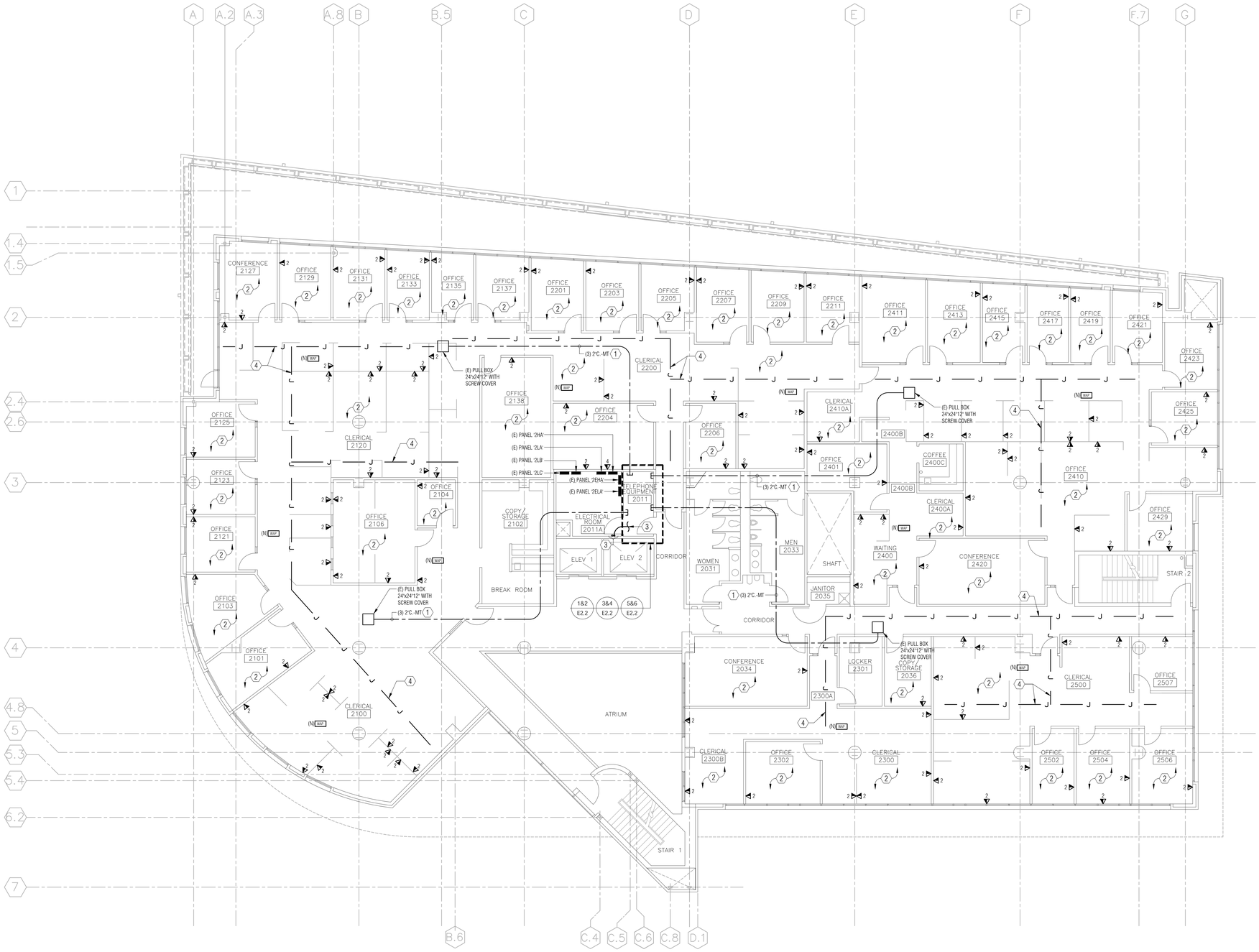
NUMBERED NOTES

(1) EXISTING RACEWAY STUBBED OUT FROM TELECOM ROOM TO REMAIN. USE FOR ROUTING REPLACEMENT CAT 6A CABLING ACROSS INACCESSIBLE AREAS AS EXISTING CATEGORY CABLING IS REMOVED AND REPLACED DURING CUT-OVER..

(2) UTILIZE EXISTING SECONDARY J-HOOK PATHWAYS TO EXISTING DATA OUTLET LOCATIONS FOR REPLACEMENT CAT 6A CABLING IN ROOM TO EXTENT POSSIBLE. PROVIDE NEW J-HOOKS IF REQUIRED FOR CABLE CAPACITY OR TO ENSURE SPACING BETWEEN J-HOOK SUPPORTS TO BE 60" MAX AND WITHIN 12" OF EMT CONDUIT STUB UP FOR EXISTING DATA OUTLETS SHOWN IN ROOM.

(3) NEW 1" CONDUITS FROM UPS TO TELECOM ROOM FOR NEW RACK RECEPTACLES. SEE SHEETS E1.0, E1.1 AND E1.3 FOR CONTINUATION OF ROUTING.

(4) NEW PRIMARY 4" J-HOOK PATHWAY.



1 OVERALL SECOND FLOOR PLAN - ELECTRICAL

1/8" = 1'-0"

NORTH

UC DAVIS HEALTH BUILDING DEPARTMENT

APPROVED

REVIEWED FOR CODE COMPLIANCE

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BY: Paul R Menard AIA, CBO DATE: 1/10/2024

PROJECT #: UCDH-2023-0230

UC Davis Health
Sacramento, CA 95817

BUILDING OFFICIAL:

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY

Will Orland
Fire Marshal
On behalf of Marshal Chief Daniel Berlant
State Fire Marshal | Sacramento Fire Marshal

Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

CAMPUS FIRE MARSHAL:

ECOM ENGINEERING
1796 Tribute Road, Suite 100
Sacramento, CA. 95815
916.641.5600
916.641.1640 Fax
www.ecomeng.com

JOB NO. 22-Q141.00 PM. AD
DESIGNERS AD
DRAWN BY ECOM

REGISTERED PROFESSIONAL ENGINEER
BENJAMIN SCHLENKER
No. E 021982
Exp. 9/30/23
ELECTRICAL
STATE OF CALIFORNIA

PROFESSIONAL OF RECORD:

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

HGA
1200 R Street, Suite 100
Sacramento, California 95811
Telephone 916.787.5100

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE

NO	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

4150 V ST,
SACRAMENTO, CA 95817

KEYPLAN

ACCOUNT NO. AC 9559630
BUILDING PATIENT SUPPORT SERVICES BUILDING (PSSB) BLDG # 14
FLOOR/WING SECOND FLOOR
PROJECT TITLE PSSB NETV2 UPGRADE
SHEET TITLE OVERALL SECOND FLOOR PLAN - ELECTRICAL

ARCH. / ENGR.	FD&C JOB NO.	
HGA / ECOM	9559630	E1.2
UCDMC PROJECT MANAGER: KEN PICKETT	SCALE: AS SHOWN	
DESIGNED BY	DATE: JUNE 16, 2023	
DRAWN BY	HGA COMMISSION NO. 1500-159-01	SHEET / OF

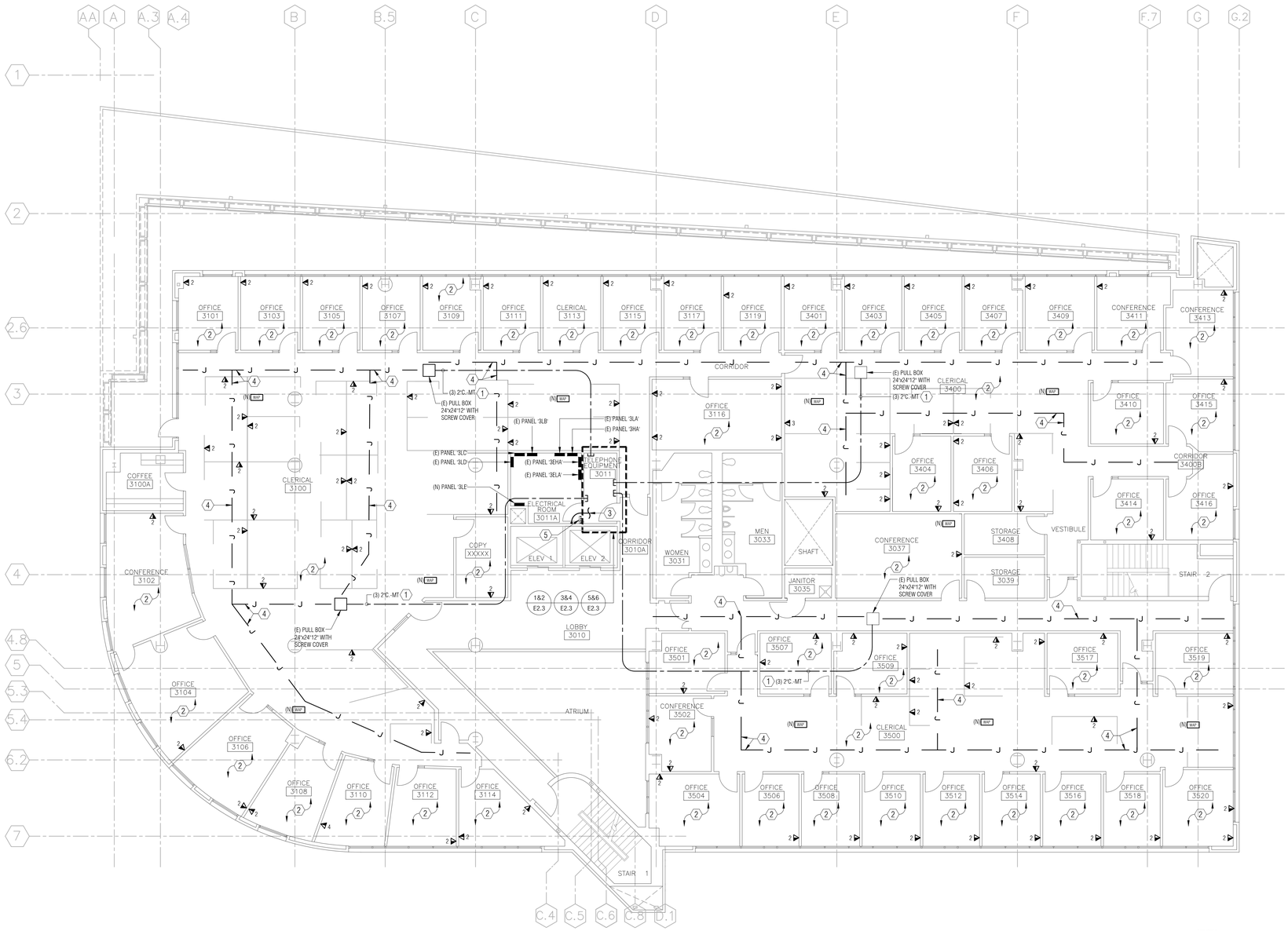
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SHEET NOTES

1. CONTRACTOR TO CUTOVER EXISTING DATA OUTLETS SHOWN ON PLANS FROM OLD CATEGORY 5E CABLING TO NEW CAT6A CABLING DURING OFF- BUSINESS HOURS. DATA OUTLETS ARE NOT PERMITTED TO BE INACTIVE DURING BUSINESS HOURS.
2. REPLACE OLD CATEGORY DATA AND VOICE JACKS WITH NEW CAT6A DATA JACKS IN EXISTING TELE/DATA PLATES.
3. ALL TELE/DATA OUTLETS TO REMAIN FUNCTIONAL DURING NORMAL BUSINESS HOURS. ALL CUTOVERS TO OCCUR AFTER BUSINESS HOURS.
4. UTILIZE EMT CONDUIT SLEEVES FOR ANY NON-RATED FULL HEIGHT WALLS.
5. SEE ARCHITECT PLANS FOR ALL FIRE RATED WALL LOCATIONS AND RATINGS.
6. PROVIDE NEW CAT6A CABLING, SMB AND DATA JACKS FOR EXISTING WIRELESS ACCESS POINTS.
7. TYPICAL, ALL DEVICES SHOWN ARE EXISTING UNLESS OTHERWISE NOTED AS NEW WITH AN 'N' TAG OR IDENTIFIED AS NEW ON THE SYMBOLS LIST ON SHEET E0.1.

NUMBERED NOTES

1. EXISTING RACEWAY STUBBED OUT FROM TELECOM ROOM TO REMAIN. USE FOR ROUTING REPLACEMENT CAT 6A CABLING ACROSS INACCESSIBLE AREAS AS EXISTING CATEGORY CABLING IS REMOVED AND REPLACED DURING CUT-OVER..
2. UTILIZE EXISTING SECONDARY J-HOOK PATHWAYS TO EXISTING DATA OUTLET LOCATIONS FOR REPLACEMENT CAT 6A CABLING IN ROOM TO EXTENT POSSIBLE. PROVIDE NEW J-HOOKS IF REQUIRED FOR CABLE CAPACITY OR TO ENSURE SPACING BETWEEN J-HOOK SUPPORTS TO BE 60" MAX AND WITHIN 12" OF EMT CONDUIT STUB UP FOR EXISTING DATA OUTLETS SHOWN IN ROOM.
3. NEW 1" CONDUITS FROM UPS TO TELECOM ROOM FOR NEW RACK RECEPTACLES. SEE SHEETS E1.0 THROUGH E1.2 FOR CONTINUATION OF ROUTING.
4. NEW PRIMARY 4" J-HOOK PATHWAY.
5. QTY (4) 1" EMT RACEWAY STUBBED UP THROUGH ROOF FOR POWER TO ROOF TOP CONDENSERS. SEE SHEET E1.4 FOR ADDITIONAL INFORMATION.



1 OVERALL THIRD FLOOR PLAN - ELECTRICAL
1/8" = 1'-0"

UC DAVIS HEALTH BUILDING DEPARTMENT
APPROVED
REVIEWED FOR CODE COMPLIANCE
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The approval of this plan and specifications SHALL NOT be held to permit or approve the violation of any University Policy or State Building Code.
BY: Paul R Menard AIA, CBO DATE: 1/10/2024
PROJECT #: UCDH-2023-0230
UC Davis Health
Sacramento, CA 95817
BUILDING OFFICIAL:

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
CAMPUS FIRE MARSHAL:

ECOM ENGINEERING
1796 Tribute Road, Suite 100
Sacramento, CA. 95815
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916.641.1640 Fax
www.ecomeng.com

JOB NO. 22-Q141.00 PM. AD
DESIGNERS AD
DRAWN BY ECOM
REGISTERED PROFESSIONAL ENGINEER — BENJAMIN SCHLENKER — No. E 021982 — Exp. 9/30/23 — ELECTRICAL — STATE OF CALIFORNIA
PROFESSIONAL OF RECORD:

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

HGA
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CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
△NO	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

4150 V ST,
SACRAMENTO, CA 95817

KEYPLAN

ACCOUNT NO. AC 9559630
BUILDING PATIENT SUPPORT SERVICES BUILDING (PSSB) BLDG # 14
FLOOR/WING THIRD FLOOR
PROJECT TITLE: PSSB NETV2 UPGRADE
SHEET TITLE: OVERALL THIRD FLOOR PLAN - ELECTRICAL

ARCH. / ENGR.	FD&C JOB NO.	
HGA / ECOM	9559630	E1.3
UCDMC PROJECT MANAGER: KEN PICKETT	SCALE: AS SHOWN	
DESIGNED BY	DATE: JUNE 16, 2023	
DRAWN BY	HGA COMMISSION NO. 1500-159-01	SHEET / OF

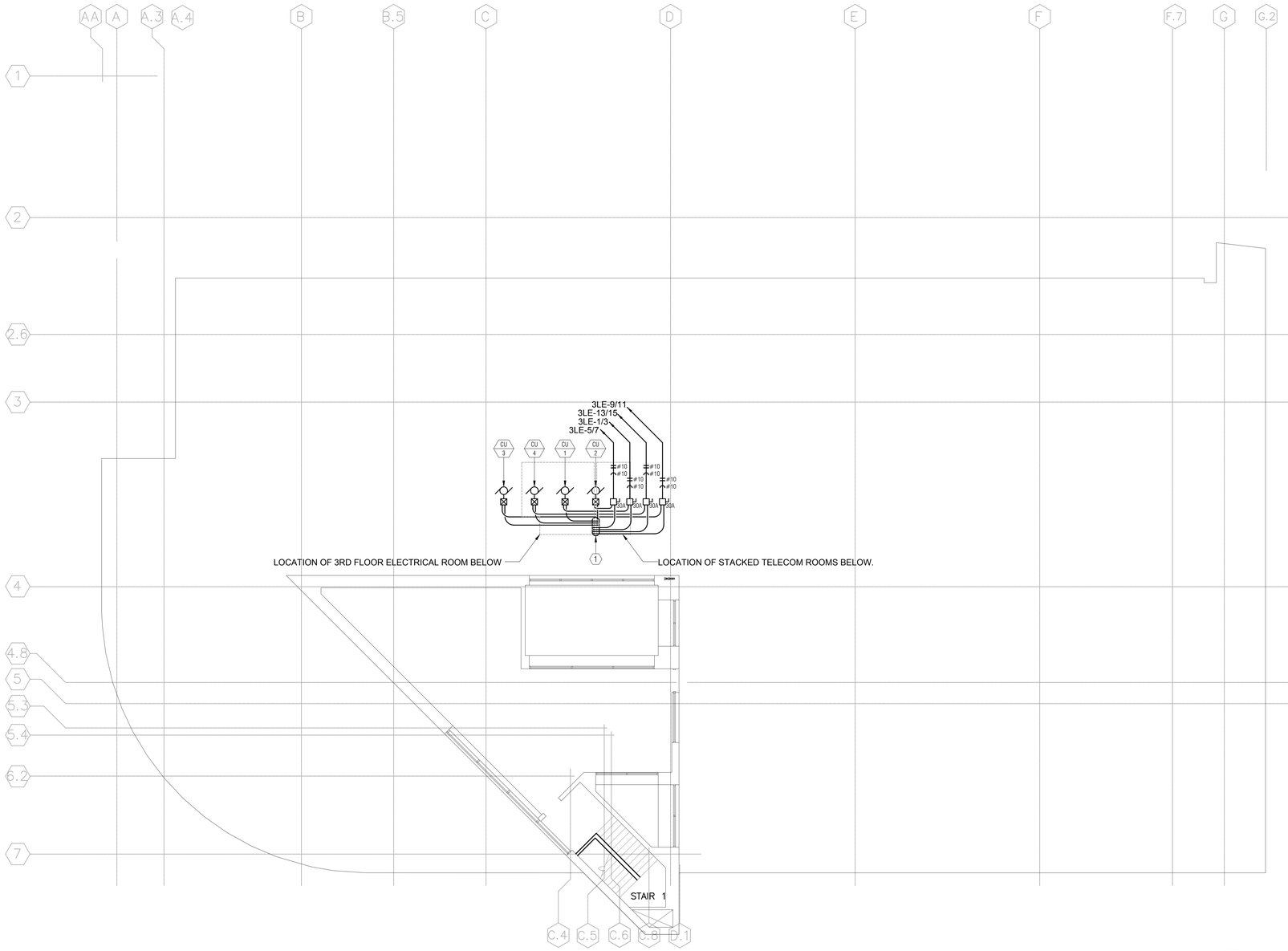
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SHEET NOTES

1. ALL CONDUITS LOCATED ABOVE ROOF SHALL BE GRC/IMC OR LIQUIDTIGHT FLEXIBLE METAL CONDUIT.
2. MAXIMUM LENGTH OF LIQUIDTIGHT FLEXIBLE METAL CONDUITS SHALL BE 36".
3. ALL DISCONNECTS LOCATED ON ROOF SHALL BE NEMA 3R.
4. SEE DETAILS 3 AND 5 ON SHEET MP602 FOR ROOFTOP CONDUIT ROUTING AND PENETRATION DETAILS. (R1)
5. ELECTRICAL CONDUITS SHALL BE 16" OR MORE ABOVE ROOFTOP.

NUMBERED NOTES

(1) QTY (4) 1" CONDUITS STUBBED DOWN TO 3RD FLOOR ELECTRICAL ROOM PANEL SERVING ROOFTOP CONDENSING UNITS AND QTY (4) 1" CONDUITS STUBBED DOWN TO TELECOM ROOM FAN COIL UNITS.



1 **OVERALL ROOF PLAN - ELECTRICAL**
1/8" = 1'-0"

TELE/DATA DROP COUNT = 546

UC DAVIS HEALTH BUILDING DEPARTMENT
APPROVED
REVIEWED FOR CODE COMPLIANCE
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PROJECT #: UCDH-2023-0230
UC Davis Health
Sacramento, CA 95817
BUILDING OFFICIAL:

OFFICE OF THE STATE FIRE MARSHAL
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Telephone 916.787.5100

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
R1	RESUBMITTAL 01	10/27/2023

NO	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

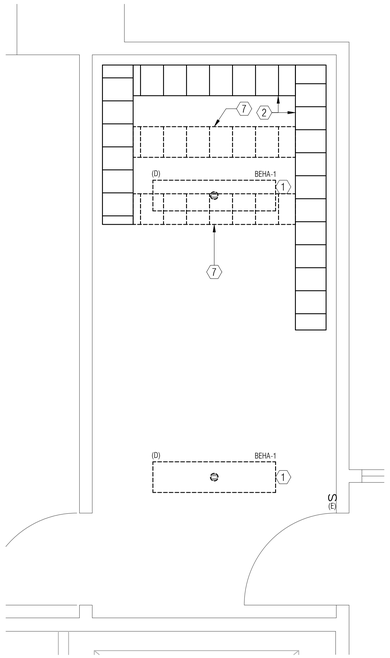
4150 V ST,
SACRAMENTO, CA 95817

KEYPLAN

ACCOUNT NO.: AC 9559630
BUILDING: PATIENT SUPPORT SERVICES BUILDING (PSSB)
FLOOR/WING:
PROJECT TITLE: PSSB NETV2 UPGRADE
SHEET TITLE: OVERALL ROOF PLAN - ELECTRICAL

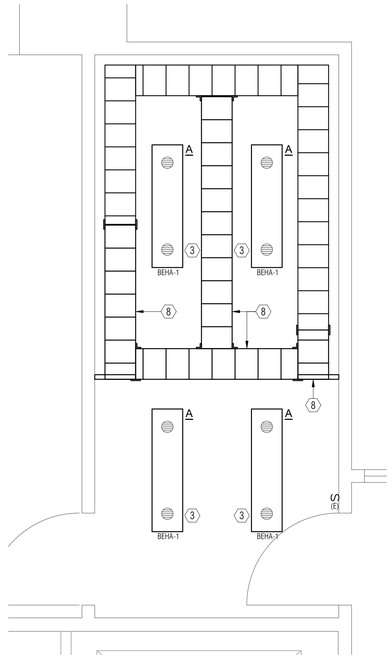
ARCH. / ENGR.	FG&C JOB NO.	
HGA / ECOM	9559630	E1.4
UCDMC PROJECT MANAGER: KEN PICKETT	SCALE: AS SHOWN	
DESIGNED BY	DATE: OCT 27, 2023	
DRAWN BY	HGA COMMISSION NO.: 1500-159-01	SHEET / OF

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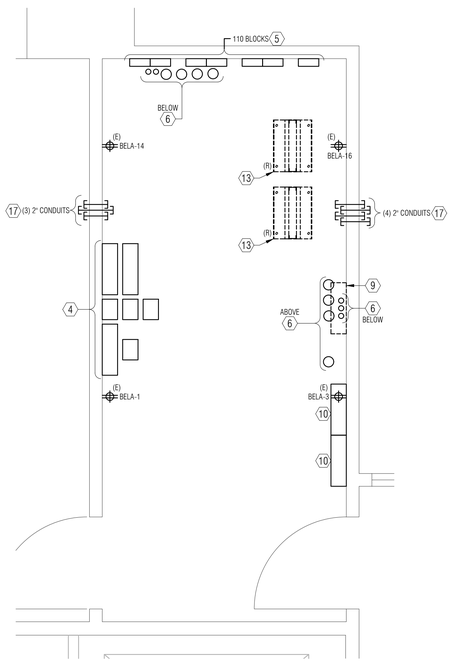
1 ENLARGED DEMO TELECOM ROOM 0011 - LIGHTING AND CABLE TRAY PLAN

1/2" = 1'-0"



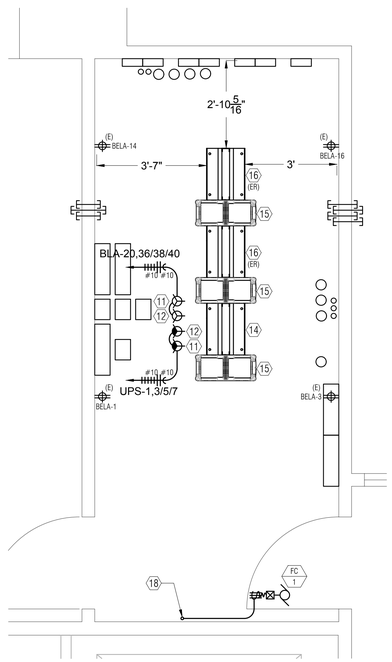
2 ENLARGED NEW TELECOM ROOM 0011 - LIGHTING AND CABLE TRAY PLAN

1/2" = 1'-0"



3 ENLARGED DEMO TELECOM ROOM 0011 - POWER AND SIGNAL PLAN

1/2" = 1'-0"



4 ENLARGED NEW TELECOM ROOM 0011 - POWER AND SIGNAL PLAN

1/2" = 1'-0"

SHEET NOTES

1. TYPICAL UNLESS OTHERWISE NOTED, EXISTING RECEPTACLES, DEVICES, ETC. SHOWN SOLID ARE EXISTING TO REMAIN. MAINTAIN CIRCUIT CONTINUITY.
2. TYPICAL UNLESS OTHERWISE NOTED, EXISTING RECEPTACLES, DEVICES, ETC. SHOWN DASHED SHALL BE REMOVED, INCLUDING OUTLET BOX, CONDUIT AND WIRE.
3. COORDINATE ALL CUTOVERS AND EQUIPMENT SHUTDOWN/REMOVAL WITH UC DAVIS IT.
4. SEE ARCHITECTURAL PLANS FOR WALL RATINGS.
5. ALL DIMENSIONS TAKEN FROM WALLS HAVE BEEN ADJUSTED FOR 3/4" PLYWOOD.
6. CONTRACTOR TO REMOVE ALL ABANDONED EQUIPMENT FROM THE TELECOM ROOM.
7. CONTRACTOR IS PERMITTED TO RE-USE SECTIONS OF THE REMOVED LADDER RACK FOR THE NEW LADDER RACK LAYOUT.

NUMBERED NOTES

1. EXISTING LIGHT FIXTURE TO BE REMOVED. SAFE-OFF CONDUCTORS FOR REPLACEMENT LIGHT FIXTURE.
2. EXISTING CABLE RUNWAY TO REMAIN, TYPICAL.
3. CONNECT NEW LIGHT FIXTURE TO EXISTING SWITCH LEG AND CIRCUIT. NET LOAD REDUCTION ON CIRCUIT.
4. EXISTING SECURITY EQUIPMENT TO REMAIN.
5. EXISTING VOICE COPPER BACKBONE CABLING AND VOICE TERMINATION FIELD TO REMAIN.
6. EXISTING RISER CONDUITS TO REMAIN.
7. REMOVE EXISTING LADDER RACK AND BRACKETS.
8. NEW 12" LADDER RACK AND BRACKETS ATTACHED TO EXISTING LADDER RACK AND WALL ANGLE BRACKETS AS SHOWN.
9. EXISTING AIR BLOWN FIBER AND CABINET TO BE REMOVED AFTER CUTOVER TO NEW SINGLE MODE FIBER RISER. COORDINATE DEMO WITH UCDMC IT. DO NOT DISTURB LIVE CIRCUITS BEFORE CUT OVER.
10. EXISTING FIRE ALARM CONTROL PANEL TO REMAIN.
11. L21-30 RECEPTACLE SUSPENDED DIRECTLY ABOVE EQUIPMENT RACKS.
12. L5-30 RECEPTACLE SUSPENDED DIRECTLY ABOVE EQUIPMENT RACKS.
13. UNBOLT EQUIPMENT RACKS AND RELOCATE AS INDICATED. PATCH HOLES IN CONCRETE AS NEEDED.
14. NEW B-LINE #SB556096XUFB EQUIPMENT RACK.
15. NEW PE2VD10 10" VERTICAL WIRE MANAGER.
16. EXISTING EQUIPMENT RACK RELOCATED AND RE-ATTACHED.
17. SEE SHEET E1.0 FOR CONTINUATION OF EXISTING CONDUIT ROUTING OUTSIDE OF TELECOM ROOM.
18. QTY (1) 1" EMT RACEWAY STUBBED UP THROUGH ROOF ABOVE TO OUTDOOR CONDENSER UNITS. SEE SHEETS E2.1, E2.2, E2.3, & E1.4 FOR ADDITIONAL INFORMATION.

UC DAVIS HEALTH BUILDING DEPARTMENT
APPROVED
REVIEWED FOR CODE COMPLIANCE
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BY: Paul R Menard AIA, CBO DATE: 1/10/2024
PROJECT #: UCDH-2023-0230
UC Davis Health
Sacramento, CA 95817
BUILDING OFFICIAL:

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
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Sacramento, California 95817
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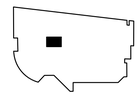
HGA
1200 R Street, Suite 100
Sacramento, California 95811
Telephone 916.787.5100
CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
△NO	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

4150 V ST,
SACRAMENTO, CA 95817

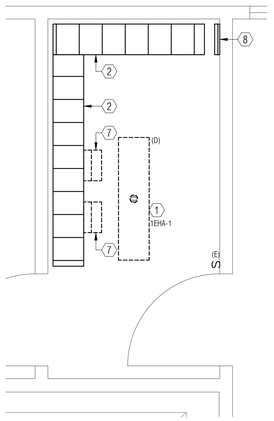


KEYPLAN

ACCOUNT NO. AC 9559630
BUILDING PATIENT SUPPORT SERVICES BUILDING (PSSB) BLDG # 14
FLOOR/WING GROUND FLOOR
PROJECT TITLE PSSB NETV2 UPGRADE
SHEET TITLE ENLARGED BASEMENT FLOOR PLANS - ELECTRICAL

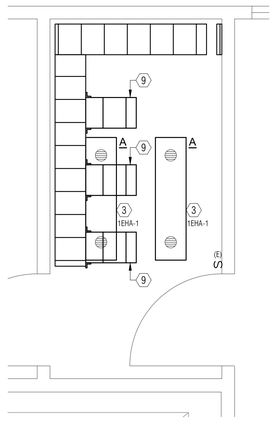
ARCH. / ENGR. HGA / ECOM	FD&C JOB NO. 9559630	E2.0
UCDMC PROJECT MANAGER KEN PICKETT	SCALE AS SHOWN	
DESIGNED BY	DATE JUNE 16, 2023	
DRAWN BY	HGA COMMISSION NO. 1500-159-01	SHEET / OF

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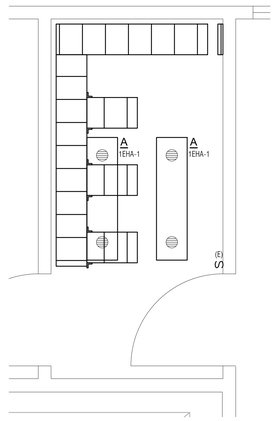
1 ENLARGED DEMO TELECOM ROOM 1011 - LIGHTING AND LADDER RACK PHASE 1

1/2" = 1'-0"



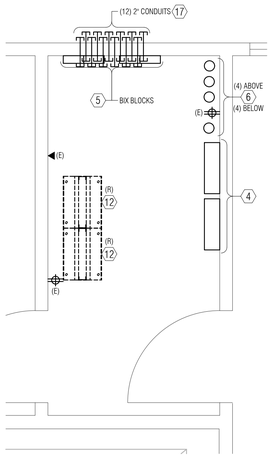
2 ENLARGED NEW TELECOM ROOM 1011 - LIGHTING AND LADDER RACK PHASE 2

1/2" = 1'-0"



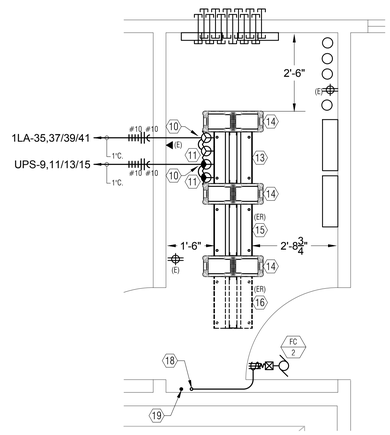
3 ENLARGED TELECOM ROOM 1011 - LIGHTING AND LADDER RACK PHASE 3

1/2" = 1'-0"



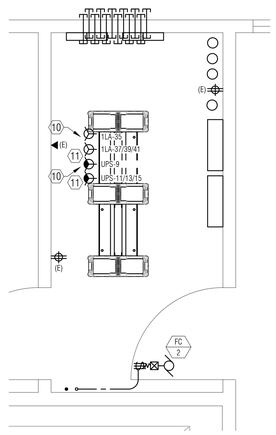
4 ENLARGED DEMO TELECOM ROOM 1011 - POWER AND SIGNAL PHASE 1

1/2" = 1'-0"



5 ENLARGED NEW TELECOM ROOM 1011 - POWER AND SIGNAL PHASE 2

1/2" = 1'-0"



6 ENLARGED TELECOM ROOM 1011 - POWER AND SIGNAL PHASE 3

1/2" = 1'-0"

SHEET NOTES

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2. TYPICAL UNLESS OTHERWISE NOTED, EXISTING RECEPTACLES, DEVICES, ETC. SHOWN DASHED SHALL BE REMOVED, INCLUDING OUTLET BOX, CONDUIT AND WIRE.
3. COORDINATE ALL CUTOVERS AND EQUIPMENT SHUTDOWN/REMOVAL WITH UC DAVIS IT.
4. SEE ARCHITECTURAL PLANS FOR WALL RATINGS.
5. ALL DIMENSIONS TAKEN FROM WALLS HAVE BEEN ADJUSTED FOR 3/4" PLYWOOD.
6. CONTRACTOR TO REMOVE ALL ABANDONED EQUIPMENT FROM THE ROOM.

NUMBERED NOTES

1. EXISTING LIGHT FIXTURE TO BE REMOVED. SAFE-OFF CONDUCTORS FOR REPLACEMENT LIGHT FIXTURE.
2. EXISTING LADDER RACK TO REMAIN, TYPICAL.
3. CONNECT NEW LIGHT FIXTURE TO EXISTING SWITCH LEG AND CIRCUIT.
4. EXISTING SECURITY EQUIPMENT TO REMAIN.
5. EXISTING VOICE COPPER BACKBONE CABLING AND VOICE TERMINATION FIELD TO REMAIN.
6. EXISTING RISER CONDUITS TO REMAIN.
7. REMOVE EXISTING LADDER RACK AND BRACKETS.
8. EXISTING VERTICAL LADDER RACK TO REMAIN.
9. NEW 12" LADDER RACK WITH BRACKET ATTACHMENTS TO EXISTING LADDER RACK AND EQUIPMENT RACKS.
10. L21-30 RECEPTACLE SUSPENDED DIRECTLY ABOVE EQUIPMENT RACKS.
11. L5-30 RECEPTACLE SUSPENDED DIRECTLY ABOVE EQUIPMENT RACKS.
12. UNBOLT EQUIPMENT RACKS AND RELOCATE AS INDICATED IN PHASES 2 AND 3. PATCH HOLES I CONCRETE AS NEEDED.
13. NEW B-LINE #SB556096XUFB EQUIPMENT RACK.
14. NEW PE2VD08 8" VERTICAL WIRE MANAGER.
15. EXISTING EQUIPMENT RACK RELOCATED AND RE-ATTACHED..
16. EXISTING EQUIPMENT RACK TEMPORARILY RELOCATED. EQUIPMENT RACK TO BE REMOVED AFTER THE CUTOVER TO NEW EQUIPMENT AND IN-RACK CABLING.
17. SEE SHEET E1.1 FOR CONTINUATION OF EXISTING CONDUIT ROUTING OUTSIDE OF TELECOM ROOM.
18. QTY (1) 1" EMT RACEWAY STUBBED UP THROUGH ROOF ABOVE TO OUTDOOR CONDENSER UNITS. SEE SHEETS E2.2, E2.3, & E1.4 FOR ADDITIONAL INFORMATION.
19. QTY (1) 1" EMT RACEWAY STUBBED DOWN TO TELECOM ROOM BELOW.

UC DAVIS HEALTH BUILDING DEPARTMENT

APPROVED

REVIEWED FOR CODE COMPLIANCE

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BY: Paul R Menard AIA, CBO DATE: 1/10/2024

PROJECT #: UCDH-2023-0230

UC Davis Health
Sacramento, CA 95817

BUILDING OFFICIAL:

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY

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JOB NO. 22-Q141.00 PM. AD
DESIGNERS AD
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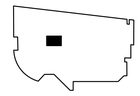
CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
NO	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

4150 V ST,
SACRAMENTO, CA 95817



KEYPLAN

ACCOUNT NO.
AC 9559630

BUILDING
PATIENT SUPPORT SERVICES BUILDING (PSSB) BLDG # 14

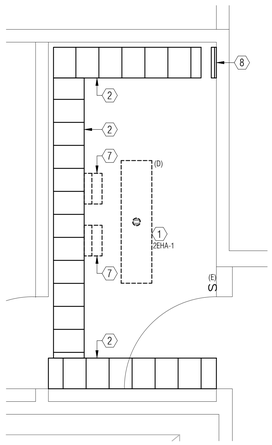
FLOOR/WING
FIRST FLOOR

PROJECT TITLE
PSSB NETV2 UPGRADE

SHEET TITLE
ENLARGED FIRST FLOOR PLANS - ELECTRICAL

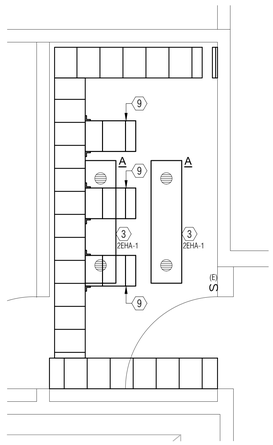
ARCH. / ENGR.	FD&C JOB NO.	
HGA / ECOM	9559630	E2.1
UCDMC PROJECT MANAGER: KEN PICKETT	SCALE: AS SHOWN	
DESIGNED BY	DATE: JUNE 16, 2023	
DRAWN BY	HGA COMMISSION NO.: 1500-159-01	SHEET / OF

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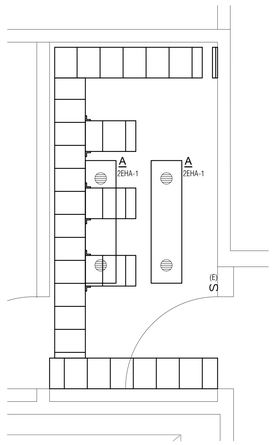
1 ENLARGED DEMO TELECOM ROOM 2011 - LIGHTING AND LADDER RACK PHASE 1

1/2" = 1'-0"



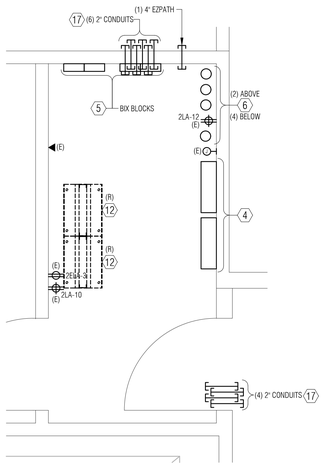
2 ENLARGED NEW TELECOM ROOM 2011 - LIGHTING AND LADDER RACK PHASE 2

1/2" = 1'-0"



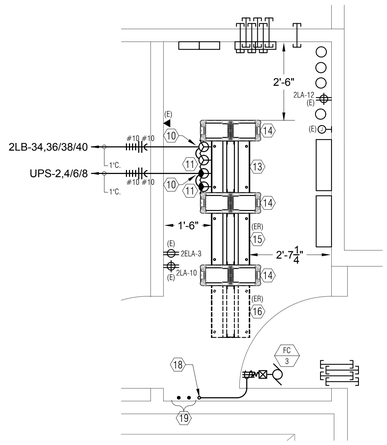
3 ENLARGED TELECOM ROOM 2011 - LIGHTING AND LADDER RACK PHASE 3

1/2" = 1'-0"



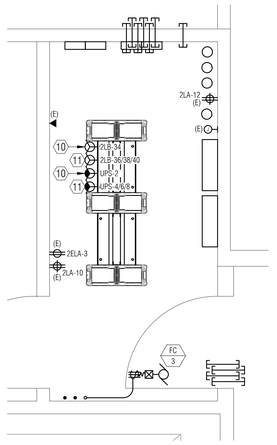
4 ENLARGED DEMO TELECOM ROOM 2011 - POWER AND SIGNAL PHASE 1

1/2" = 1'-0"



5 ENLARGED NEW TELECOM ROOM 2011 - POWER AND SIGNAL PHASE 2

1/2" = 1'-0"



6 ENLARGED TELECOM ROOM 2011 - POWER AND SIGNAL PHASE 3

1/2" = 1'-0"

SHEET NOTES

1. TYPICAL UNLESS OTHERWISE NOTED, EXISTING RECEPTACLES, DEVICES, ETC. SHOWN SOLID ARE EXISTING TO REMAIN. MAINTAIN CIRCUIT CONTINUITY.
2. TYPICAL UNLESS OTHERWISE NOTED, EXISTING RECEPTACLES, DEVICES, ETC. SHOWN DASHED SHALL BE REMOVED, INCLUDING OUTLET BOX, CONDUIT AND WIRE.
3. COORDINATE ALL CUTOVERS AND EQUIPMENT SHUTDOWN/REMOVAL WITH UC DAVIS IT.
4. SEE ARCHITECTURAL PLANS FOR WALL RATINGS.
5. ALL DIMENSIONS TAKEN FROM WALLS HAVE BEEN ADJUSTED FOR 3/4" PLYWOOD.
6. CONTRACTOR TO REMOVE ALL ABANDONED TELECOM EQUIPMENT FROM TEH ROOM.

NUMBERED NOTES

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3. CONNECT NEW LIGHT FIXTURE TO EXISTING SWITCH LEG AND CIRCUIT.
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5. EXISTING VOICE COPPER BACKBONE CABLING AND VOICE TERMINATION FIELD TO REMAIN.
6. EXISTING RISER CONDUITS TO REMAIN.
7. REMOVE EXISTING LADDER RACK AND BRACKETS.
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10. L21-30 RECEPTACLE SUSPENDED DIRECTLY ABOVE EQUIPMENT RACKS.
11. L5-30 RECEPTACLE SUSPENDED DIRECTLY ABOVE EQUIPMENT RACKS.
12. UNBOLT EQUIPMENT RACKS AND RELOCATE AS INDICATED IN PHASES 2 AND 3. PATCH HOLES I CONCRETE AS NEEDED.
13. NEW B-LINE #SB556096XUFB EQUIPMENT RACK.
14. NEW PE2VD08 8" VERTICAL WIRE MANAGER.
15. EXISTING EQUIPMENT RACK RELOCATED ADN RE-ATTACHED.
16. EXISTING EQUIPMENT RACK TEMPORARILY RELOCATED. EQUIPMENT RACK TO BE REMOVED AFTER THE CUTOVER TO NEW EQUIPMENT AND IN-RACK CABLING.
17. SEE SHEET E1.2 FOR CONTINUATION OF EXISTING CONDUIT ROUTING OUTSIDE OF THE TELECOM ROOM.
18. QTY (1) 1" EMT RACEWAY STUBBED UP THROUGH ROOF ABOVE TO OUTDOOR CONDENSER UNITS. SEE SHEETS E2.3 & E1.4 FOR ADDITIONAL INFORMATION.
19. QTY (2) 1" EMT RACEWAY STUBBED DOWN TO TELECOM ROOMS BELOW.

UC DAVIS HEALTH BUILDING DEPARTMENT

APPROVED

REVIEWED FOR CODE COMPLIANCE

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BY: Paul R Menard AIA, CBO DATE: 1/10/2024

PROJECT #: UCDH-2023-0230

UC Davis Health
Sacramento, CA 95817

BUILDING OFFICIAL

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CONSULTANT LOGO

REV	REVISION DESCRIPTION	DATE
NO	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

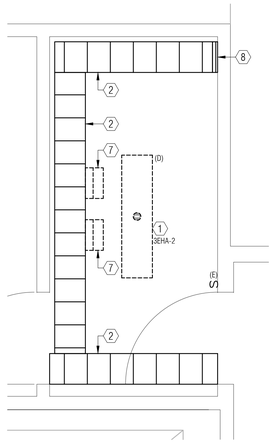
4150 V ST,
SACRAMENTO, CA 95817

KEYPLAN

ACCOUNT NO.: AC 9559630
BUILDING: PATIENT SUPPORT SERVICES BUILDING (PSSB) BLDG # 14
FLOOR/WING: SECOND FLOOR
PROJECT TITLE: PSSB NETV2 UPGRADE
SHEET TITLE: ENLARGED SECOND FLOOR PLANS - ELECTRICAL

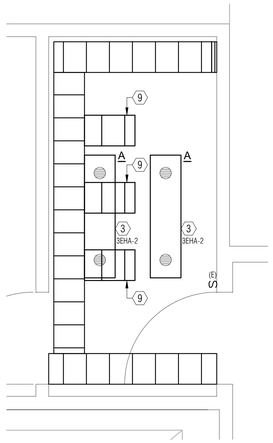
ARCH. / ENGR. HGA / ECOM	FD&C JOB NO. 9559630		E2.2
UCDMC PROJECT MANAGER KEN PICKETT	SCALE AS SHOWN		
DESIGNED BY	DATE JUNE 16, 2023		
DRAWN BY	HGA COMMISSION NO. 1500-159-01	SHEET	OF

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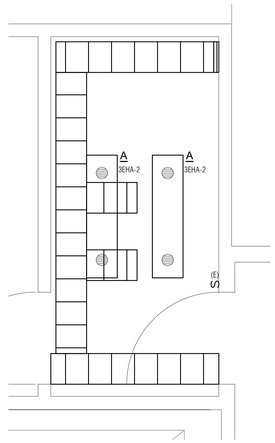
ENLARGED DEMO TELECOM ROOM 3011 - LIGHTING AND LADDER RACK PHASE 1

1 1/2" = 1'-0"



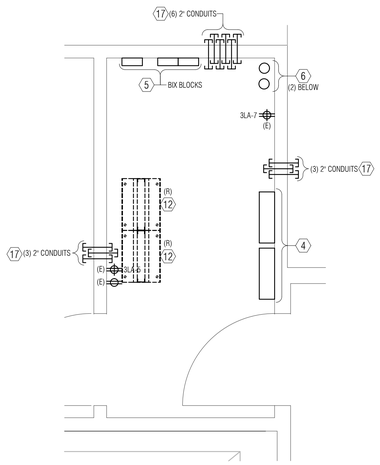
ENLARGED NEW TELECOM ROOM 3011 - LIGHTING AND LADDER RACK PHASE 2

2 1/2" = 1'-0"



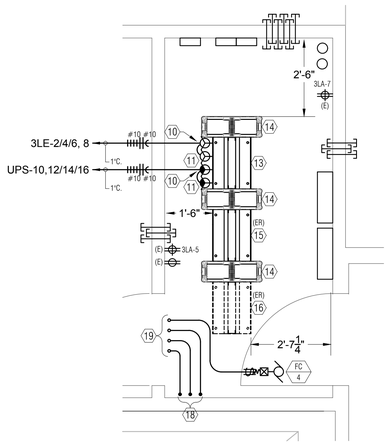
ENLARGED TELECOM ROOM 3011 - LIGHTING AND LADDER RACK PHASE 3

3 1/2" = 1'-0"



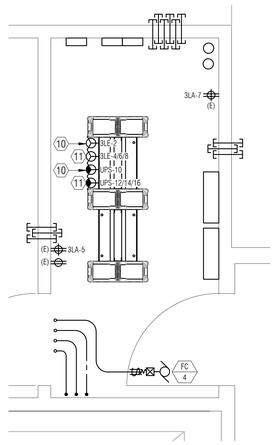
ENLARGED DEMO TELECOM ROOM 3011 - POWER AND SIGNAL PHASE 1

4 1/2" = 1'-0"



ENLARGED NEW TELECOM ROOM 3011 - POWER AND SIGNAL PHASE 2

5 1/2" = 1'-0"



ENLARGED TELECOM ROOM 3011 - POWER AND SIGNAL PHASE 3

6 1/2" = 1'-0"

SHEET NOTES

1. TYPICAL UNLESS OTHERWISE NOTED, EXISTING RECEPTACLES, DEVICES, ETC. SHOWN SOLID ARE EXISTING TO REMAIN. MAINTAIN CIRCUIT CONTINUITY.
2. TYPICAL UNLESS OTHERWISE NOTED, EXISTING RECEPTACLES, DEVICES, ETC. SHOWN DASHED SHALL BE REMOVED, INCLUDING OUTLET BOX, CONDUIT AND WIRE.
3. COORDINATE ALL CUTOVERS AND EQUIPMENT SHUTDOWN/REMOVAL WITH UC DAVIS IT.
4. SEE ARCHITECTURAL PLANS FOR WALL RATINGS.
5. ALL DIMENSIONS TAKEN FROM WALLS HAVE BEEN ADJUSTED FOR 3/4" PLYWOOD.

NUMBERED NOTES

1. EXISTING LIGHT FIXTURE TO BE REMOVED. SAFE-OFF CONDUCTORS FOR REPLACEMENT LIGHT FIXTURE.
2. EXISTING LADDER RACK TO REMAIN, TYPICAL.
3. CONNECT NEW LIGHT FIXTURE TO EXISTING SWITCH LEG AND CIRCUIT.
4. EXISTING SECURITY EQUIPMENT TO REMAIN.
5. EXISTING VOICE COPPER BACKBONE CABLING AND VOICE TERMINATION FIELD TO REMAIN.
6. EXISTING RISER CONDUITS TO REMAIN.
7. REMOVE EXISTING LADDER RACK AND BRACKETS.
8. EXISTING VERTICAL LADDER RACK TO REMAIN.
9. NEW 12" LADDER RACK WITH BRACKET ATTACHMENTS TO EXISTING LADDER RACK AND EQUIPMENT RACKS.
10. L21-30 RECEPTACLE SUSPENDED DIRECTLY ABOVE EQUIPMENT RACKS.
11. L5-30 RECEPTACLE SUSPENDED DIRECTLY ABOVE EQUIPMENT RACKS.
12. UNBOLT EQUIPMENT RACKS AND RELOCATE AS INDICATED IN PHASES 2 AND 3. PATCH HOLES I CONCRETE AS NEEDED.
13. NEW B-LINE #SB556096XUFB EQUIPMENT RACK.
14. NEW PE2VD08 8" VERTICAL WIRE MANAGER.
15. EXISTING EQUIPMENT RACK RELOCATED AND RE-ATTACHED.
16. EXISTING EQUIPMENT RACK TEMPORARILY RELOCATED. EQUIPMENT RACK TO BE REMOVED AFTER THE CUTOVER TO NEW EQUIPMENT AND IN-RACK CABLING.
17. SEE SHEET E1.3 FOR EXISTING CONDUIT ROUTING OUTSIDE OF TELECOM ROOM.
18. QTY (3) 1" EMT RACEWAY STUBBED DOWN TO TELECOM ROOMS BELOW.
19. QTY (4) 1" EMT RACEWAY STUBBED UP THROUGH ROOF ABOVE TO OUTDOOR CONDENSER UNITS. SEE SHEET E1.4 FOR ADDITIONAL INFORMATION.

UC DAVIS HEALTH BUILDING DEPARTMENT
APPROVED
REVIEWED FOR CODE COMPLIANCE
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BY: Paul R Menard AIA, CBO DATE: 1/10/2024
PROJECT #: UCDH-2023-0230
UC Davis Health
Sacramento, CA 95817
BUILDING OFFICIAL:

OFFICE OF THE STATE FIRE MARSHAL
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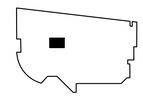
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Telephone 916.787.5100
CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
NO	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

4150 V ST,
SACRAMENTO, CA 95817



KEYPLAN

ACCOUNT NO.: AC 9559630
BUILDING: PATIENT SUPPORT SERVICES BUILDING (PSSB) BLDG # 14
FLOOR/WING: SECOND FLOOR
PROJECT TITLE: PSSB NETV2 UPGRADE
SHEET TITLE: ENLARGED THIRD FLOOR PLANS - ELECTRICAL

ARCH. / ENGR.	FD&C JOB NO.	
HGA / ECOM	9559630	E2.3
UCD&C PROJECT MANAGER: KEN PICKETT	SCALE: AS SHOWN	
DESIGNED BY	DATE: JUNE 16, 2023	
DRAWN BY	HGA COMMISSION NO.: 1500-159-01	SHEET / OF

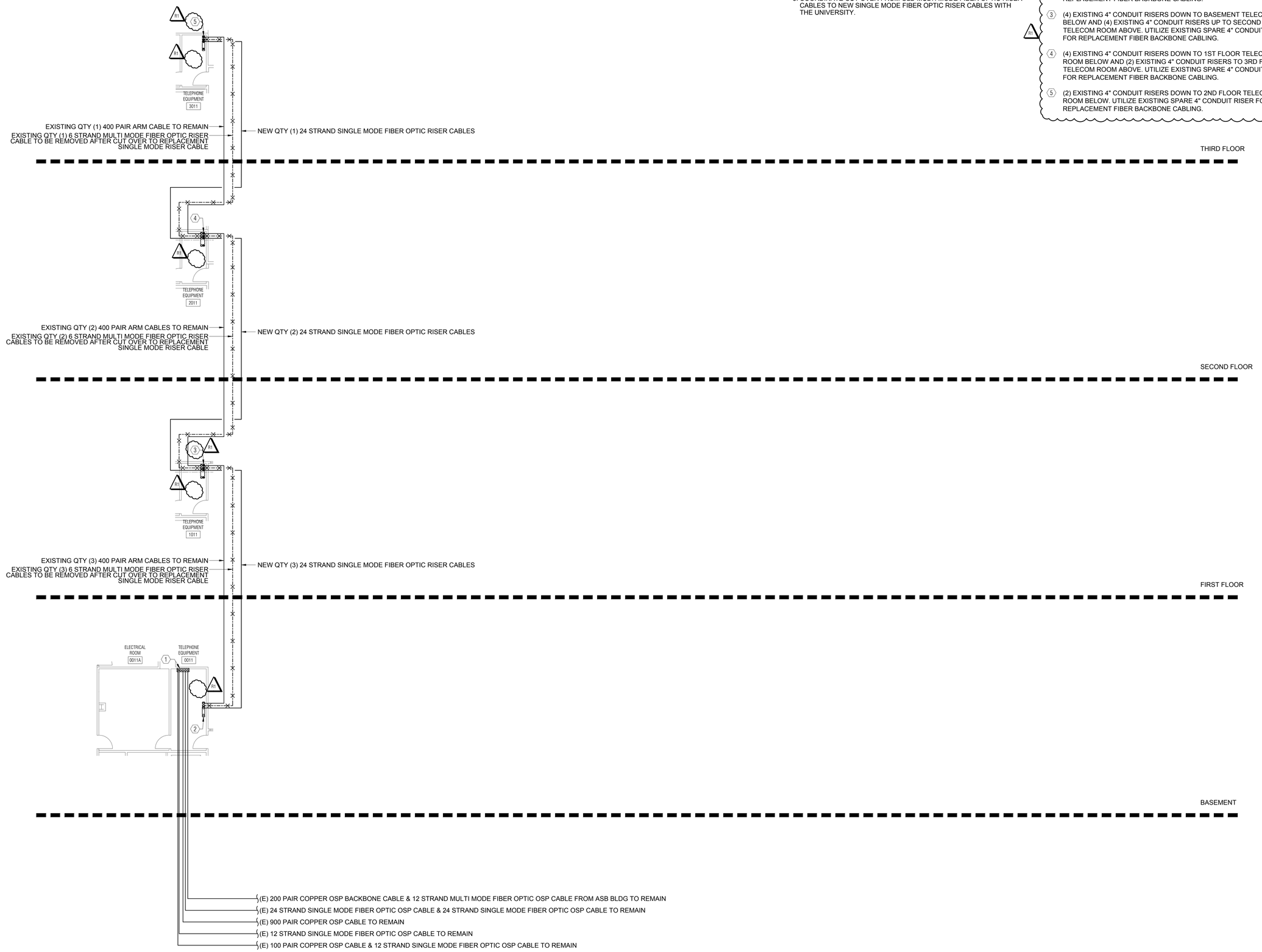
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SHEET NOTES

1. INSTALL 24 STRAND SINGLE MODE , PLENUM RATED, INTER LOCKING ARMOR FIBER OPTIC CABLE FROM TELECOM ROOM 0011 TO EACH FLOOR'S RESPECTIVE TELECOM ROOM.
2. USE (E) LADDER RACK AND CONDUIT SLEEVES TO SUPPORT AND ROUTE NEW FIBER OPTIC RISER CABLES.
3. COORDINATE CUT OVER FROM OLD MULTI MODE FIBER OPTIC RISER CABLES TO NEW SINGLE MODE FIBER OPTIC RISER CABLES WITH THE UNIVERSITY.

NUMBERED NOTES

1. (4) EXISTING 4" CONDUITS AND (2) EXISTING 2" CONDUITS ROUTED UNDERGROUND FOR EXISTING OSP BACKBONE CABLING INTO THE BUILDING.
2. (4) EXISTING 4" CONDUIT RISERS UP TO 1ST FLOOR TELECOM ROOM ABOVE. UTILIZE EXISTING SPARE 4" CONDUIT RISERS FOR REPLACEMENT FIBER BACKBONE CABLING.
3. (4) EXISTING 4" CONDUIT RISERS DOWN TO BASEMENT TELECOM ROOM BELOW AND (4) EXISTING 4" CONDUIT RISERS UP TO SECOND FLOOR TELECOM ROOM ABOVE. UTILIZE EXISTING SPARE 4" CONDUIT RISERS FOR REPLACEMENT FIBER BACKBONE CABLING.
4. (4) EXISTING 4" CONDUIT RISERS DOWN TO 1ST FLOOR TELECOM ROOM BELOW AND (2) EXISTING 4" CONDUIT RISERS TO 3RD FLOOR TELECOM ROOM ABOVE. UTILIZE EXISTING SPARE 4" CONDUIT RISERS FOR REPLACEMENT FIBER BACKBONE CABLING.
5. (2) EXISTING 4" CONDUIT RISERS DOWN TO 2ND FLOOR TELECOM ROOM BELOW. UTILIZE EXISTING SPARE 4" CONDUIT RISER FOR REPLACEMENT FIBER BACKBONE CABLING.



1 TELECOM BACKBONE RISER DIAGRAM

NO SCALE

UC DAVIS HEALTH BUILDING DEPARTMENT

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Sacramento, CA 95817

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BENJAMIN SCHLENKER
No. E 021982
Exp. 9/30/25
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STATE OF CALIFORNIA

PROFESSIONAL OF RECORD:

UCDAVIS HEALTH

FACILITIES DESIGN & CONSTRUCTION
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(916)734-7024

HGA

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Telephone 916.787.5100

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
R1	RESUBMITTAL 01	10/27/2023

NO	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

4150 V ST,
SACRAMENTO, CA 95817

KEYPLAN

ACCOUNT NO.: AC 9559630
BUILDING: PATIENT SUPPORT SERVICES BUILDING (PSSB)
FLOOR/WING:
PROJECT TITLE: PSSB NETV2 UPGRADE
SHEET TITLE: TELECOM BACKBONE RISER DIAGRAM

ARCH. / ENGR.	FD&C JOB NO.	
HGA / ECOM	9559630	E4.0
UCDMC PROJECT MANAGER: KEN PICKETT	SCALE: AS SHOWN	
DESIGNED BY	DATE: OCT 27, 2023	
DRAWN BY	HGA COMMISSION NO.: 1500-159-01	SHEET / OF

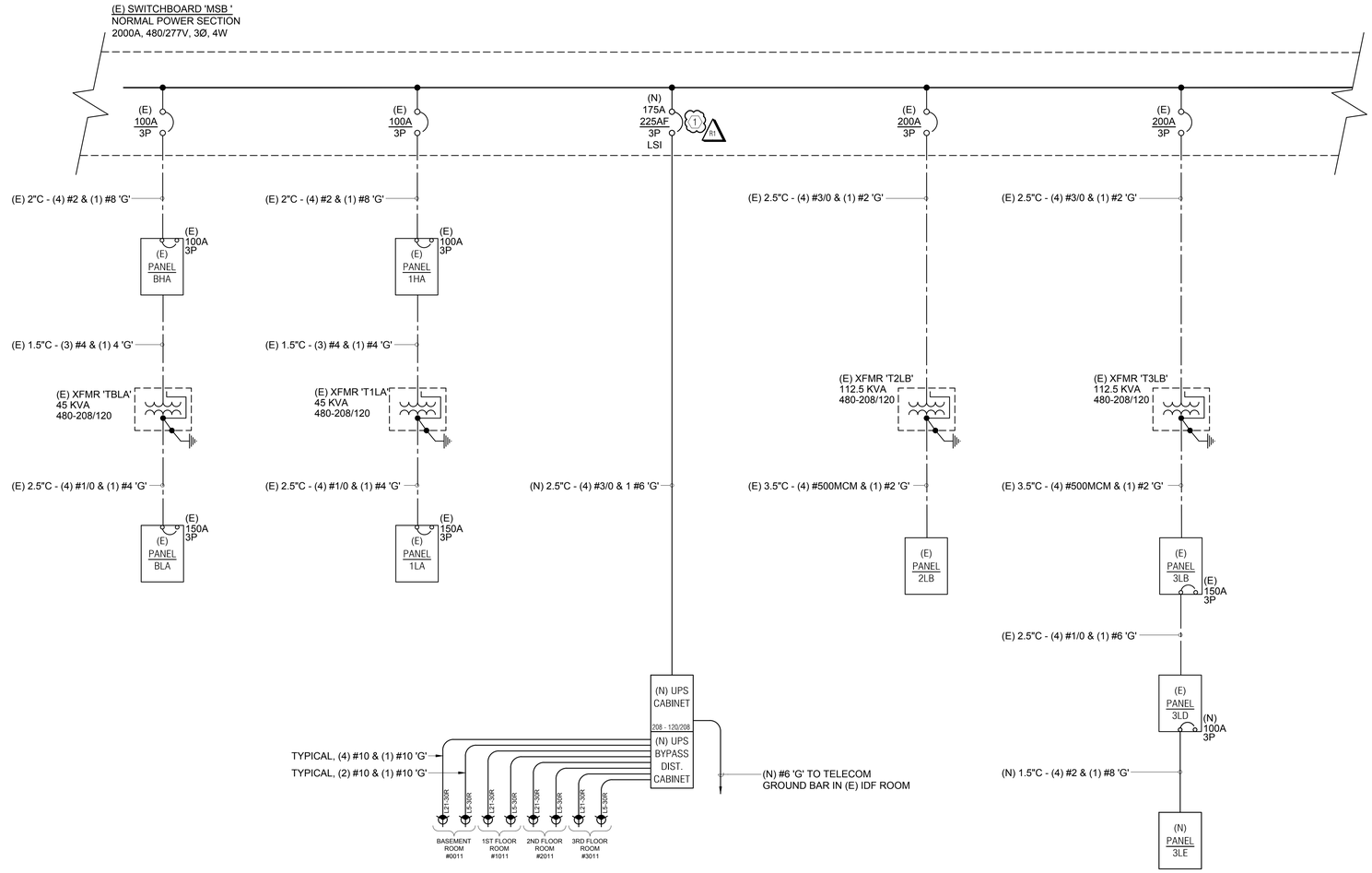
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SHEET NOTES

1. COORDINATE WITH UCDH IT ON FINAL SIZE OF SCALABLE 40KVA FRAME UPS WITH UCDH IT. FEEDERS SHALL BE SIZED FOR FULL 175A CAPACITY OF A 40 KVA UPS. OVERCURRENT PROTECTIVE DEVICES SHALL BE SIZED ON THE FINAL SCALED SIZE OF THE UPS.

NUMBERED NOTES

(1) FINALIZE UPS EQUIPMENT AND ITS SCALABLE SIZE PRIOR TO PROCURING CIRCUIT BREAKER. SIZE CURRENTLY SHOWN IS THE MAXIMUM SIZE REQUIRED FOR A 40KVA UPS.



1 PARTIAL ONE LINE DIAGRAM - NORMAL BRANCH

NO SCALE

UC DAVIS HEALTH BUILDING DEPARTMENT
APPROVED
REVIEWED FOR CODE COMPLIANCE
The set of plans and specifications must be kept on the job site at all times and it is unlawful to make any changes or alterations to the approved set without written permission from the Building Department.
The approval of this plan and specifications SHALL NOT be held to permit or approve the violation of any University Policy or State Building Code.
BY: Paul R Menard AIA, CBO DATE: 1/10/2024
PROJECT #: UCDH-2023-0230
UC Davis Health
Sacramento, CA 95817

BUILDING OFFICIAL:

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

CAMPUS FIRE MARSHAL:

ECOM ENGINEERING
1796 Tribute Road, Suite 100
Sacramento, CA. 95815
916.641.5600
916.641.1640 Fax
www.ecomeng.com

JOB NO. 22-Q141.00 PM. AD
DESIGNERS AD
DRAWN BY ECOM

REGISTERED PROFESSIONAL ENGINEER
BENJAMIN SCHLENKER
No. E 021982
Exp. 9/30/25
ELECTRICAL
STATE OF CALIFORNIA

PROFESSIONAL OF RECORD:

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

HGA
1200 R Street, Suite 100
Sacramento, California 95811
Telephone 916.787.5100

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
R1	RESUBMITTAL 01	10/27/2023

NO	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

4150 V ST,
SACRAMENTO, CA 95817

KEYPLAN

ACCOUNT NO.: AC 9559630
BUILDING: PATIENT SUPPORT SERVICES BUILDING (PSSB)
FLOOR/WING:
PROJECT TITLE: PSSB NETV2 UPGRADE
SHEET TITLE: PARTIAL ONE LINE DIAGRAM

ARCH. / ENGR. HGA / ECOM	FG&C JOB NO. 9559630	E5.0
UCDMC PROJECT MANAGER KEN PICKETT	SCALE AS SHOWN	
DESIGNED BY	DATE OCT 27, 2023	
DRAWN BY	HGA COMMISSION NO. 1500-159-01	SHEET / OF

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PROJECT: PSSB NET V2 UPGRADE — EXISTING

PANEL - 'MSB'

LOCATION: BASEMENT ELECTRICAL RM — SECTION 1

LOAD DESCRIPTION	KVA LOAD CONT.	RECP.	MOTOR	NON	C. B. TRIP	POLE	#	PH A	B	C	CKT #	C. B. TRIP	POLE	KVA LOAD CONT.	RECP.	MOTOR	NON	LOAD DESCRIPTION
–	–				–	–	---				---	–	–	20.00				–
SPACE					–	–	3				4	–	–	20.00				SPACE
–					–	–	---				---	–	–	20.00				–
XFMR "12LB"	10.20	42.48			200	3	9	•			10	–	–	–				–
–	9.20	42.48			–	–	---				---	–	–	–				SPACE
–					–	–	---				---	–	----	15.80	7.74		0.60	–
SPACE					–	–	15	•			16	100	3	14.90	7.74		0.10	XFMR "1BLA"
–					–	–	---				---	–	----	14.90	6.30		1.70	–
–					–	–	---				---	–	–			6.00	–	–
SPACE					–	–	21				22	100	3			6.00	–	PANEL "BHB"
–					–	–	---				---	–	–			6.00	–	–
–	2.66	43.36	5.24		–	–	---				---	–	–					–
XFMR "13LB"	2.66	43.18	3.16		200	3	27	•			28	–	–					–
–	3.66	41.92	5.24		–	–	---				---	–	–					SPACE
SPACE					–	–	33				34	–	–					SPACE
–					–	–	---				---	–	–					–
TOTALS ---------->	37.58	257.34	13.64									45.60	21.78	18.00	2.40			<-------- TOTALS

LOAD SUMMATION

CONNECT LOAD (KVA)		DEMAND FACTOR		DEMAND LOAD (KVA)		
83.18	x	125% OF LOAD	=	103.98	<---	CONTINUOUS
279.12	x	CEC DEMAND	=	144.56	<---	RECEPTACLES
31.64	x	1.00	=	63.89	<---	MOTORS+25% LARGEST
2.40	x	1.00	=	2.40	<---	NONCONTINUOUS
----				----		
396.34	kVA	477.52	Amps	314.83	kVA	378.85 Amps

VOLTAGE: 277/480V, 3 PH, 4W
AIC: 65,000
MOUNTING: SURFACE
BUSING: 2000 AMP BUSING
MAIN: 2000 AMP MAIN BRKR.

ADDITIONAL FEATURES:
FEED THRU LUGS

CEC 220.44 DEMAND: 1st 10 kVA AT 100%, REMAINING AT 50%
LARGEST MOTOR LOAD (kVA) = 129.00

10/23/23

PROJECT: PSSB NET V2 UPGRADE — EXISTING

PANEL - 'MSB'

LOCATION: BASEMENT ELECTRICAL RM — SECTION 2

LOAD DESCRIPTION	KVA LOAD CONT.	RECP.	MOTOR	NON	C. B. TRIP	POLE	#	PH A	B	C	CKT #	C. B. TRIP	POLE	KVA LOAD CONT.	RECP.	MOTOR	NON	LOAD DESCRIPTION
–			21.30		–	–	---				---	–	–	20.00				–
ELEV. #1			21.30		150	3	45	•			46	125	3	20.00				XFMT "T1LD"
–			21.30		–	–	---				---	–	–	20.00				–
–	12.40	7.74		0.60	–	–	---				---	–	–	10.00				–
PANEL "1HA"	11.50	7.74		0.10	225	3	51	•			52	175	3	10.00				NEW "UPS [2]
–	11.70	6.30		1.70	–	–	---				---	–	–	8.00				–
–	7.40	9.40		0.10	–	–	---				---	–	–					–
PANEL "2HA"	7.40	9.40			225	3	57	•			58	–	3					SPACE
–	7.40	9.40			–	–	---				---	–	–					–
PANEL "3HA"	16.90	11.80			225	3	63	•			64	–	3					SPACE
–	16.90	11.80			–	–	---				---	–	–					–
ATS NORMAL			88.60		–	–	---				---	–	–					–
–			88.60		400	3	69	•			70	–	3					SPACE
–			88.60		–	–	---				---	–	–					–
SPACE					–	–	75	•			76	–	3					SPACE
–					–	–	---				---	–	–					–
SPACE					–	–	81	•			82	–	3					SPACE
–			43.20		–	–	---				---	–	–					–
CHILLER #1			43.20		250	3	87	•			88	–	3					SPACE
–			43.20		–	–	---				---	–	–					–
–			43.20		–	–	---				---	–	–					–
CHILLER #2			43.20		250	3	93	•			94	–	3					SPACE
–			43.20		–	–	---				---	–	–					–
–		21.30			–	–	---				---	–	–					–
XFMR "T1LB"		21.30			125	3	99	•			100	–	3					SPACE
–		21.30			0.20	–	---				---	–	–					–
–		18.70			–	–	---				---	–	–					–
XFMR "T8LB"		18.70			125	3	105	•			106	–	3					SPACE
–		18.70			–	–	---				---	–	–					–
–			88.70		–	–	---				---	–	–					–
MCC			88.70		400	3	111	•			112	–	3					SPACE
–			88.70		–	–	---				---	–	–					–
TOTALS ---------->	108.50	205.38	323.10	534.70								88.00						<-------- TOTALS

LOAD SUMMATION (THESE VALUES INCLUDE LOADS FROM SECTION 1)

CONNECT LOAD (KVA)		DEMAND FACTOR		DEMAND LOAD (KVA)		
279.68	x	125% OF LOAD	=	349.60	<---	CONTINUOUS
484.50	x	CEC DEMAND	=	247.25	<---	RECEPTACLES
354.74	x	1.00	=	386.99	<---	MOTORS+25% LARGEST
537.10	x	1.00	=	537.10	<---	NONCONTINUOUS
----				----		
1656.02	kVA	1995.20	Amps	1520.94	kVA	1830.25 Amps

VOLTAGE: 277/480V, 3 PH, 4W
AIC: 65,000
MOUNTING: SURFACE
BUSING: 2000 AMP BUSING
MAIN: 2000 AMP MAIN BRKR.

ADDITIONAL FEATURES:

BREAKER NOTES:
[2] = NEW C/B, NEW LOAD.

CEC 220.44 DEMAND: 1st 10 kVA AT 100%, REMAINING AT 50%
LARGEST MOTOR LOAD (kVA) = 129.00

10/23/23

PROJECT: PSSB NET V2 UPGRADE — EXISTING

PANEL - '1LA'

LOCATION: 1ST FLOOR ELECTRICAL RM

LOAD DESCRIPTION	KVA LOAD CONT.	RECP.	MOTOR	NON	C. B. TRIP	POLE	#	PH A	B	C	CKT #	C. B. TRIP	POLE	KVA LOAD CONT.	RECP.	MOTOR	NON	LOAD DESCRIPTION
–		0.72			20	1	---				---	20	1		1.44			SOUTH WEST RECEPTACLE
SOUTH EAST RECEPTACLE		0.72			20	1	3	•			4	20	1		1.44			SOUTH WEST RECEPTACLE
SOUTH EAST RECEPTACLE		1.44			20	1	5	•			6	20	1		1.44			SOUTH WEST RECEPTACLE
SOUTH EAST RECEPTACLE		1.44			20	1	7	•			8	20	1		1.44			WEST RECEPTACLE
SOUTH EAST RECEPTACLE		1.44			20	1	9	•			10	20	1		1.26			WEST RECEPTACLE 1300
SOUTH EAST RECEPTACLE		0.54			20	1	11	•			12	20	1		1.26			WEST RECEPTACLE
CONFERENCE RECEPTACLE		1.26			20	1	13	•			14	20	1					NORTH RECEPTACLE
EAST RECEPTACLE		1.44			20	1	15	•			16	20	1		0.18			NORTH RECEPTACLE
EAST RECEPTACLE		1.44			20	1	17	•			18	20	1			0.20		NORTH RECEPTACLE
NORTH EAST RECEPTACLE		1.44			20	1	19	•			20	30	1	1.00				NORTH CENTER RECEPTACLE
NORTH EAST RECEPTACLE		1.44			20	1	21	•			22	20	1	0.10				NORTH CENTER RECEPTACLE
NORTH EAST RECEPTACLE				0.50	20	1	23	•			24	20	1		0.18			NORTH CENTER RECEPTACLE
EAST CENTER RECEPTACLE				0.50	20	1	25	•			26	20	1			0.10		NORTH EAST RECEPTACLE
EAST CENTER RECEPTACLE				0.10	20	1	27	•			28	20	1	0.80				NORTH EAST RECEPTACLE
EAST CENTER RECEPTACLE	0.10				20	1	29	•			30	20	1	0.80				NORTH EAST RECEPTACLE
EAST CENTER RECEPTACLE	0.80				20	1	31	•			32	20	1	0.80				NORTH EAST RECEPTACLE
NORTH EAST RECEPTACLE					20	1	33	•			34	20	1	0.80				NORTH EAST RECEPTACLE
L5–30 REC TELECOM RM 1011 [2]	1.00				30	1	35	•			36	20	1	2.00				TELEPHONE RM RECEPTACLE
–	2.00				–	----					38	20	1	2.00				TELEPHONE RM RECEPTACLE
L21–30 REC TELECOM RM 1011 [2]	2.00				30	3	39	•			40	20	1	2.00				SPARE
–	2.00				–	----					42	20	1			1.00		XAV
TOTALS ---------->	7.90	13.14			1.10							10.30	8.64		1.30			<-------- TOTALS

LOAD SUMMATION

CONNECT LOAD (KVA)		DEMAND FACTOR		DEMAND LOAD (KVA)		
18.20	x	125% OF LOAD	=	22.75	<---	CONTINUOUS
21.78	x	CEC DEMAND	=	15.89	<---	RECEPTACLES
x		1.00	=		<---	MOTORS+25% LARGEST
2.40	x	1.00	=	2.40	<---	NONCONTINUOUS
----				----		
42.38	kVA	117.72	Amps	41.04	kVA	114.00 Amps

VOLTAGE: 120/208V, 3 PH, 4W
AIC: 10,000
MOUNTING: SURFACE
BUSING: 225 AMP BUSING
MAIN: 150 AMP MAIN BRKR.

ADDITIONAL FEATURES:

BREAKER NOTES:
[2] = NEW C/B, NEW LOAD.

CEC 220.44 DEMAND: 1st 10 kVA AT 100%, REMAINING AT 50%

ecom3.xls 04/12/13 — 6/16/23

PROJECT: PSSB NET V2 UPGRADE — EXISTING

PANEL - '2LB'

LOCATION: 2ND FLOOR ELECTRICAL RM

LOAD DESCRIPTION	KVA LOAD CONT.	RECP.	MOTOR	NON	C. B. TRIP	POLE	#	PH A	B	C	CKT #	C. B. TRIP	POLE	KVA LOAD CONT.	RECP.	MOTOR	NON	LOAD DESCRIPTION
NORTH FURN. IG POWER		1.44			20	1	1	•			2	20	1		1.44			WEST FURN. IG POWER
NORTH FURN. IG POWER		1.44			20	1	3	•			4	20	1		1.44			WEST FURN. IG POWER
NORTH FURN. IG POWER		1.44			20	1	5	•			6	20	1		1.44			WEST FURN. IG POWER
NORTH FURN. IG POWER		1.44			20	1	7	•			8	20	1		1.44			WEST FURN. IG POWER
NORTH FURN. IG POWER		1.44			20	1	9	•			10	20	1		1.44			WEST FURN. IG POWER
NORTH FURN. IG POWER		1.44			20	1	11	•			12	20	1		1.44			WEST FURN. IG POWER
NORTH FURN. IG POWER		1.44			20	1	13	•			14	20	1		1.44			WEST FURN. IG POWER
NORTH FURN. IG POWER		1.44			20	1	15	•			16	20	1		1.44			WEST FURN. IG POWER
WEST FURN IG POWER		1.44			20	1	17	•			18	20	1		1.44			SOUTH WEST FURN. POWER
WEST FURN IG POWER		1.44			20	1	19	•			20	30	1		1.44			SOUTH WEST FURN. POWER
WEST FURN IG POWER		1.44			20	1	21	•			22	20	1		1.44			SOUTH WEST FURN. POWER
WEST FURN IG POWER		1.44			20	1	23	•			24	20	1		1.44			SOUTH WEST FURN. POWER
–		7.38			–	----					26	20	1		1.44			WEST FURN. POWER
PANEL "2LC"		7.38			150	3	27	•			28	20	1		1.44			WEST FURN. POWER
–		7.38			–	----					30	20	1		1.44			WEST FURN. POWER
–		7.38			–	----					32	20	1		1.44			WEST FURN. POWER
PANEL "2LC"		7.38			150	3	33	•			34	30	1	1.00				L5–30 REC TELECOM RM 2011 [2]
–		7.38			–	----						–	---	2.00				–
–		7.38			–	----					38	30	3	2.00				L21–30 REC TELECOM RM. 2011 [2]
PANEL "2LD"		7.38			150	3	39	•				–	---	2.00				–
–		7.38			–	----					42	20	1		7.20			SPACE
–		7.38			–	----						–			7.20			–
PANEL "2LD"		7.38			150	3	45	•			46	100	3		7.20			PANEL "2LE"
–		7.38			–	----						–			7.20			–
							49	•			50							
							51	•			52							
							53	•			54							
TOTALS ---------->		105.84										28.60	23.04					<-------- TOTALS

LOAD SUMMATION

CONNECT LOAD (KVA)		DEMAND FACTOR		DEMAND LOAD (KVA)		
28.60	x	125% OF LOAD	=	35.75	<---	CONTINUOUS
128.88	x	CEC DEMAND	=	69.44	<---	RECEPTACLES
x		1.00	=		<---	MOTORS+25% LARGEST
x		1.00	=		<---	NONCONTINUOUS
----				----		
157.48	kVA	437.44	Amps	105.19	kVA	292.19 Amps

VOLTAGE: 120/208V, 3 PH, 4W
AIC: 10,000
MOUNTING: SURFACE
BUSING: 400 AMP BUSING
MAIN: 400 AMP MAIN BRKR.

ADDITIONAL FEATURES:

BREAKER NOTES:
[2] = NEW C/B, NEW LOAD.

CEC 220.44 DEMAND: 1st 10 kVA AT 100%, REMAINING AT 50%

ecom3.xls 04/12/13 — 6/15/23

PROJECT: PSSB NETV2 UPGRADE — EXISTING

PANEL - 3LD

LOCATION: 3RD FLOOR ELECTRICAL RM3011

LOAD DESCRIPTION	KVA LOAD CONT.	RECP.	MOTOR	NON	C. B. TRIP	POLE	#	PH A	B	C	CKT #	C. B. TRIP	POLE	KVA LOAD CONT.	RECP.	MOTOR	NON	LOAD DESCRIPTION
NORTH SYS FURNITURE		1.44			20	1	1	•			2	20	1		1.44			EAST SYS FURNITURE
NORTH SYS FURNITURE		1.44			20	1	3	•			4	20	1		1.44			EAST SYS FURNITURE
NORTH SYS FURNITURE		1.44			20	1	5	•			6	20	1		1.44			EAST SYS FURNITURE
NORTH SYS FURNITURE		1.44			20	1	7	•			8	20	1		1.44			EAST SYS FURNITURE
NORTH SYS FURNITURE		1.44			20	1	9	•			10	20	1		1.44			EAST SYS FURNITURE
NORTH SYS FURNITURE		1.44			20	1	11	•			12	20	1		1.44			EAST SYS FURNITURE
NORTH SYS FURNITURE		1.44			20	1	13	•			14	20	1		1.44			EAST SYS FURNITURE
NORTH SYS FURNITURE		1.44			20	1	15	•			16	20	1		1.44			EAST SYS FURNITURE
NORTHEAST SYS FURNITURE		1.44			20	1	17	•			18	20	1		1.44			SOUTHEAST SYS FURNITURE
NORTHEAST SYS FURNITURE		1.44			20	1	19	•			20	20	1		1.44			SOUTHEAST SYS FURNITURE
NORTHEAST SYS FURNITURE		1.44			20	1	21	•			22	20	1		1.44			SOUTHEAST SYS FURNITURE
NORTHEAST SYS FURNITURE		1.44			20	1	23	•			24	20	1		1.44			SOUTHEAST SYS FURNITURE
NORTH SYS FURNITURE		1.44			20	1	25	•			26	20	1		0.18			JANITOR CLOSET
NORTH SYS FURNITURE		1.44			20	1	27	•			28	20	1		1.44			CENTER SYS FURNITURE
NORTH SYS FURNITURE		1.44			20	1	29	•			30	20	1		1.44			CENTER SYS FURNITURE
NORTH SYS FURNITURE		1.44			20	1	31	•			32	20	1		1.44			CENTER SYS FURNITURE
BREAK RM 3100A REC.		1.44			20	1	33	•			34	20	1		1.44			CENTER SYS FURNITURE
BREAK RM 3100A REC.		1.44			20	1	35	•				–	---	3.00		5.24		–
BREAK RM 3100A REC.		1.44			20	1	37	•			38	100	3	2.00		5.24		PANEL "3LE" [2]
SPARE					20	1	39	•				–	---	2.00		3.16		–
SPARE					20	1	41	•			42	20	1		0.18			COPY RM 337 RECEPT.
TOTALS ---------->		27.36										7.00	23.40	13.64				<-------- TOTALS

LOAD SUMMATION

CONNECT LOAD (KVA)		DEMAND FACTOR		DEMAND LOAD (KVA)		
7.00	x	125% OF LOAD	=	8.75	<---	CONTINUOUS
50.76	x	CEC DEMAND	=	30.38	<---	RECEPTACLES
13.64	x	1.00	=	13.64	<---	MOTORS+25% LARGEST
x		1.00	=		<---	NONCONTINUOUS
----				----		
71.40	kVA	198.33	Amps	52.77	kVA	146.58 Amps

VOLTAGE: 120/208V, 3 PH, 4W
AIC: 10,000
MOUNTING: SURFACE
BUSING: 225 AMP BUSING
MAIN: MAIN LUGS ONLY

ADDITIONAL FEATURES:

BREAKER NOTES:
[2] = NEW C/B, NEW LOAD.

CEC 220.44 DEMAND: 1st 10 kVA AT 100%, REMAINING AT 50%
ENTER THE LARGEST MOTOR SIZE (KVA)!!!

ecom3.xls 04/12/13 — 6/15/23

PROJECT: PSSB NETV2 UPGRADE — NEW

PANEL - '3LE'

LOCATION: 3RD FLOOR ELECTRICAL RM3011

LOAD DESCRIPTION	KVA LOAD CONT.	RECP.	MOTOR	NON	C. B. TRIP	POLE	#	PH A	B	C	CKT #	C. B. TRIP	POLE	KVA LOAD CONT.	RECP.	MOTOR	NON	LOAD DESCRIPTION
CU–1 / FC–1			2.08		30	2	1	•			2	–	–	2.00				–
–			2.08		–	–	---				---	40	3	2.00				L21–30 REC TELECOM RM 3011
CU–2 / FC–2			1.58		20	2	5	•			6	–	---	2.00				–
–			1.58		–	---					8	30	1	1.00				L5–30 REC TELECOM RM 3011
CU–3 / FC–3			1.58		20	2	9	•			10	20	1					SPARE
–			1.58		–	---					12	20	1					SPARE
CU–4 / FC–4			1.58		20	2	13	•			14	20	1					SPARE
–			1.58		–	---					16	20	1					SPARE
SPARE					20	1	17				18	20	1					SPARE
SPARE					20	1	19	•			20	20	1					SPARE
SPARE					20	1	21	•			22	20	1					SPARE
SPARE					20	1	23	•			24	20	1					SPARE
SPACE					1	27	•				28	1						SPACE
SPACE					1	29	•				30	1						SPACE
SPACE					1	31	•				32	1						SPACE
SPACE					1	33	•				34	1						SPACE
SPACE					1	35	•				36	1						SPACE
SPACE					1	37	•				38	1						SPACE
SPACE					1	39	•				40	1						SPACE
SPACE					1	41	•				42	1						SPACE
TOTALS ---------->		13.64										7.00						<-------- TOTALS

LOAD SUMMATION

CONNECT LOAD (KVA)		DEMAND FACTOR		DEMAND LOAD (KVA)		
7.00	x	125% OF LOAD	=	8.75	<---	CONTINUOUS
13.64	x	1.00	=	13.64	<---	MOTORS+25% LARGEST
x		1.00	=		<---	NONCONTINUOUS
----				----		
20.64	kVA	57.33	Amps	22.39	kVA	62.19 Amps

VOLTAGE: 120/208V, 3 PH, 4W
AIC: 10,000
MOUNTING: SURFACE
BUSING: 100 AMP BUSING
MAIN: MAIN LUGS ONLY

ADDITIONAL FEATURES:

ENTER THE LARGEST MOTOR SIZE (KVA)!!!

ecom3.xls 04/12/13 — 6/15/23

PROJECT: PSSB NET V2 UPGRADE — EXISTING

PANEL - 'BLA'

LOCATION: BASEMENT ELECTRICAL RM 0011A

LOAD DESCRIPTION	KVA LOAD CONT.	RECP.	MOTOR	NON	C. B. TRIP	POLE	#	PH A	B	C	CKT #	C. B. TRIP	POLE	KVA LOAD CONT.	RECP.	MOTOR	NON	LOAD DESCRIPTION
TELEPHONE RECEPTACLE		0.72				1	1	•			2	20	1		1.44			CORRIDOR RECEPTACLE
TELEPHONE RECEPTACLE		0.72				1	3	•			4	20	1		1.44			AA/LENS RECEPTACLE
B–2B RECEPTACLE		1.44				1	5	•			6	20	1		1.44			SD/RNS RECEPTACLE
COUNCEL RECEPTACLE		1.44				1	7	•			8	20	1		1.44			RESTROOM RECEPTACLE
DIET RECEPTACLE		1.44				1	9	•			10	20	1		1.26			G500 AREA RECEPTACLE
CONFERENCE RECEPTACLE		0.54				1	11	•			12	20	1		1.26			G500 AREA RECEPTACLE
CONFERENCE RECEPTACLE		1.26				1	13	•			14	20	1					SPARE
CONFERENCE RECEPTACLE		1.26				1	15	•			16	20	1		0.18			ELEVATOR PIT
SYS FURNITURE		1.44				1	17	•			18	20	1			0.20		LTG CONTACTOR / TIME CLOCK
SYS FURNITURE		1.44				1	19	•			20	30	1	1.00				L5–30 REC TELECOM RM 0011 [2]
SYS FURNITURE		1.44				1	21	•			22	20	1	0.10				IRRIGATION CONTROL
PROJECTION SCREEN			0.50			1	23	•			24	20	1		0.18			JANITOR CLOSET REC.
PROJECTION SCREEN			0.50			1	25	•			26	20	1			0.10		EMERGENCY TELEPHONE
DOOR BUZZER RM B–2B			0.10			1	27	•			28	20	1	0.80				LTG VIA CONTACTOR
IRRIGATION CONTROL	0.10					1	29	•			30	20	1	0.80				LTG VIA CONTACTOR
LIGHTING CONTACTOR	0.80					1	31	•			32	20	1	0.80				LTG VIA CONTACTOR
SPARE						1	33	•			34	20	1	0.80				LTG VIA CONTACTOR
EXTERIOR LIGHTING	0.80					1	35	•			–	–	---	2.00				–
–	5.00				–	–	---				38	30	3	2.00				L21–30 REC TELECOM RM 0011 [2]
SPARE "BLD	5.00				100	3	39	•			–	–	---	2.00				–
–	5.00				–	–	---				42						1.00	BASEMENT WATER COOLER
TOTALS ---------->	16.70	13.14			1.10							10.30	8.64		1.30			<-------- TOTALS

LOAD SUMMATION

CONNECT LOAD (KVA)		DEMAND FACTOR		DEMAND LOAD (KVA)		
27.00	x	125% OF LOAD	=	33.75	<---	CONTINUOUS
21.78	x	CEC DEMAND	=	15.89	<---	RECEPTACLES
x		1.00	=		<---	MOTORS+25% LARGEST
2.40	x	1.00	=	2.40	<---	NONCONTINUOUS
----				----		
51.18	kVA	142.17	Amps	52.04	kVA	144.56 Amps

VOLTAGE: 120/208V, 3 PH, 4W
AIC: 10,000
MOUNTING: SURFACE
BUSING: 225 AMP BUSING
MAIN: 150 AMP MAIN BRKR.

ADDITIONAL FEATURES:

BREAKER NOTES:
[2] = NEW C/B, NEW LOAD.

CEC 220.44 DEMAND: 1st 10 kVA AT 100%, REMAINING AT 50%

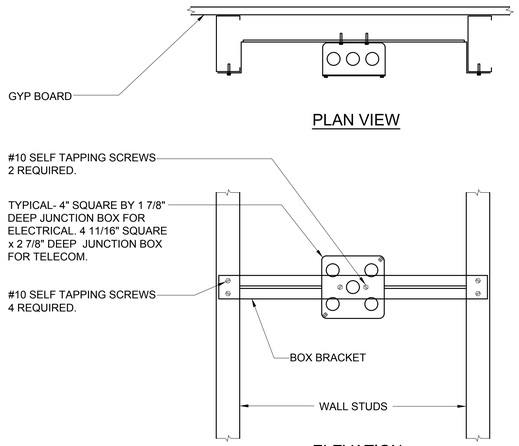
ecom3.xls 04/12/13 — 6/15/23

PROJECT: PSSB NET V2 UPGRADE — NEW

PANEL - 'UPS'

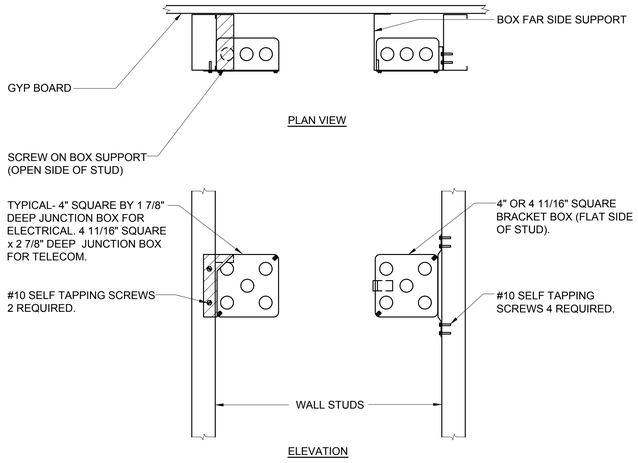
LOCATION: BASEMENT ELECTRICAL RM 0011A

LOAD DESCRIPTION	KVA LOAD CONT.	RECP.	MOTOR	NON	C. B. TRIP	POLE	#	PH A	B	C	CKT #	C. B. TRIP	POLE	KVA LOAD CONT.	RECP.	MOTOR	NON	LOAD DESCRIPTION
L5–30 RECPT. RM 0011	1.00				30	1	1	•			2	30	1	1.00				L5–30 RECPT. RM 2011
–	2.00				–	---					4	–	---	2.00				–
L21–30 RECPT. RM 0011	2.00				30	3	5	•			6	30	3	2.00				L21–30 RECPT. RM 2011
–	2.00				–	---					8	30	1	1.00				L5–30 RECPT. RM 3011
L5–30 RECPT. RM 1011	1.00				30	1	9	•			10	30	1	1.00				L5–30 RECPT. RM 3011
–	2.00				–	---					12	–	---	2.00				–
L21–30 RECPT. RM 1011	2.00				30	3	13	•			14	30	3	2.00				L21–30 RECPT. RM 3011
–	2.00				–	---					16	–	---	2.00				–
SPARE					20	1	17				18							SPACE
SPARE					20	1	19	•			20							SPACE
SPARE					20	1	21	•			22							SPACE
SPARE					20	1	23	•			24							SPACE
SPARE					20	1	25	•			26							SPACE
SPARE					20	1	27	•			28							SPACE
SPARE					20	1	29	•			30							SPACE
SPACE					20	1	31	•			32							SPACE
SPACE					20	1	33	•			34							SPACE
SPACE					20	1	35	•			36							SPACE
SPACE							37	•			38							SPACE
SPACE							39	•			40							SPACE



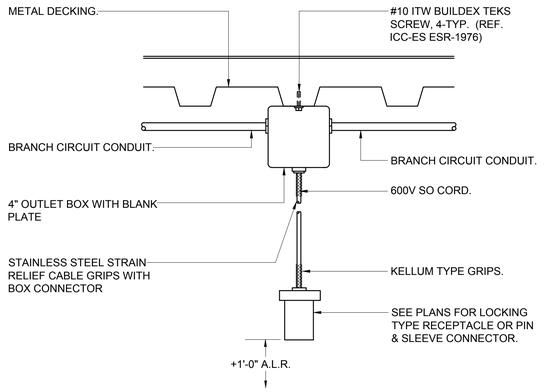
1 BOX SUPPORT (BETWEEN STUDS)

NO SCALE



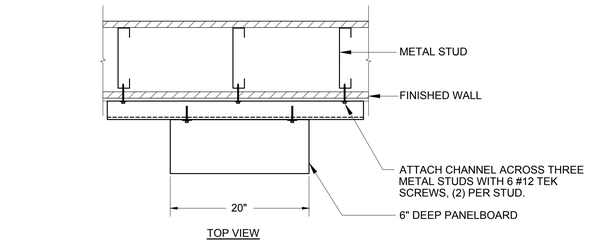
2 BOX SUPPORT (ON STUD)

NO SCALE



3 CORD DROP DETAIL

NO SCALE



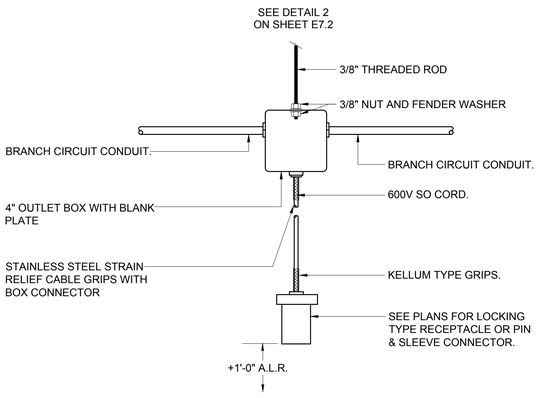
J-HOOK SIZE	MAX # OF CAT6 CABLES	MAX # OF CAT6A CABLES
2"	60	35
3"	150	80
4"	220	140

NOTES FOR ALL J-HOOK SYSTEMS:

1. PROVIDE SEPARATE J-HOOK FOR EACH INDIVIDUAL LOW VOLTAGE SYSTEM.
2. LEAVE 25% SPARE CAPACITY FOR FUTURE CABLE INSTALLATION.
3. SPACING BETWEEN J-HOOKS SHALL BE 4'-0" MAXIMUM FOR PRIMARY PATHWAYS AND 5'-0" MAXIMUM FOR SECONDARY PATHWAYS.
4. PROVIDE RETAINING STRAP FOR ALL J-HOOK SUPPORTS.
5. MAY SECURE UP TO (4) J-HOOKS ON A SINGLE THREADED ROD.
6. MAXIMUM WEIGHT OF 5lbs. PER THREADED ROD SUPPORT.
7. MAXIMUM 24 CABLES FOR POE CABLE BUNDLES.

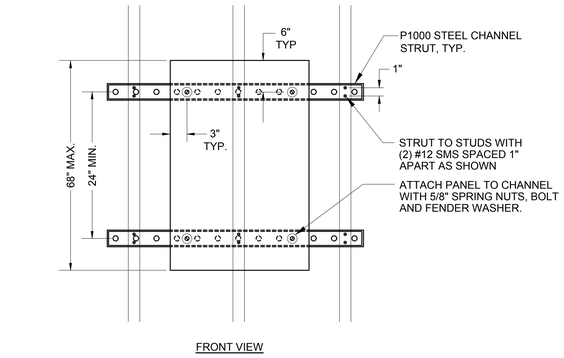
4 NOTES FOR ALL J-HOOK SYSTEMS

NO SCALE



7 CORD DROP DETAIL

NO SCALE

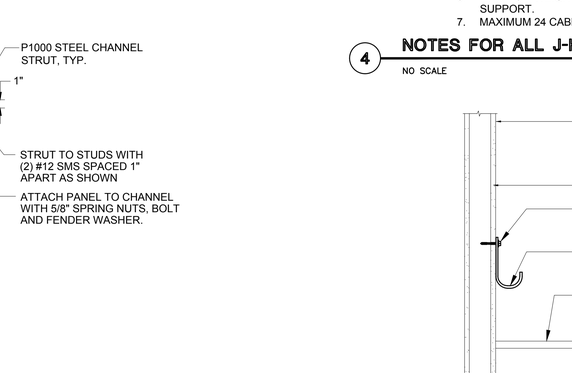


NOTES:

1. REFER TO J-HOOK NOTES DETAIL FOR ADDITIONAL INFORMATION.
2. PROVIDE RETAINING CLIP ON J-HOOK.

8 SECONDARY PATHWAYS - J-HOOK WITH WIRE TO DECK

NO SCALE



NOTES:

1. REFER TO J-HOOK NOTES DETAIL FOR ADDITIONAL INFORMATION.
2. PROVIDE RETAINING CLIP ON J-HOOK.

9 PRIMARY PATHWAYS - J-HOOK WITH 3/8" ROD TO DECK

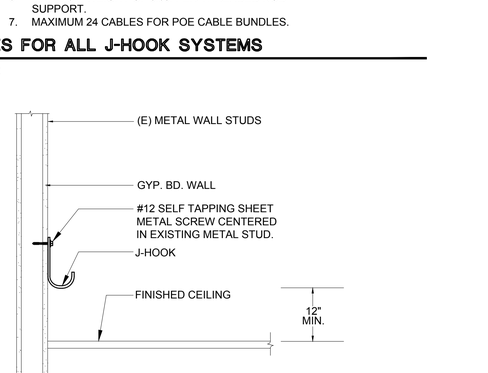
NO SCALE

NOTES:

1. USE FENDER WASHERS ON ALL SCREWS.
2. WEIGHT- 150 LBS. MAXIMUM
3. ALL SCREWS #12 SELF-TAPPING SHEET METAL SCREWS-TRAXX BY ITW BUILDEX OR APPROVED EQUIVALENT. MIN O.C. SPACING OF SCREWS IS 1" TYPICAL, UNLESS NOTED. MIN EDGE DISTANCE - CL SCREW TO MEMBER EDGE IS 1/2" TYP. UON.

5 SURFACE MOUNTED PANEL ON UNISTRUT DETAIL

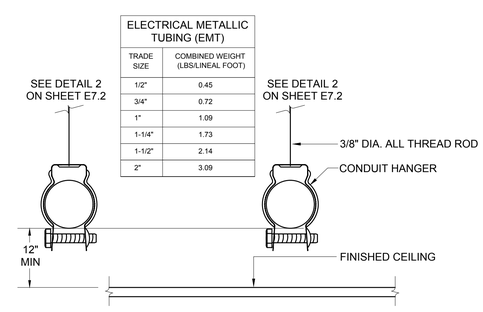
NO SCALE



6 WALL-MOUNTED J-HOOK DETAIL FOR METAL STUD

NO SCALE

ELECTRICAL METALLIC TUBING (EMT)	
TRADE SIZE	COMBINED WEIGHT (LBS/LINEAL FOOT)
1/2"	0.45
3/4"	0.72
1"	1.09
1-1/4"	1.73
1-1/2"	2.14
2"	3.09

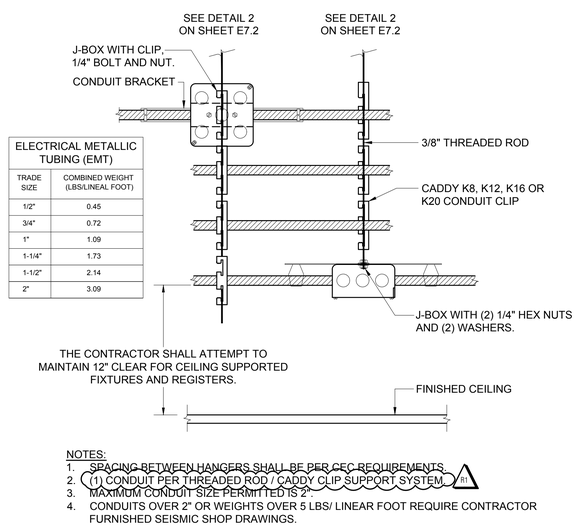


NOTES:

1. SPACING BETWEEN HANGERS SHALL BE PER CEC REQUIREMENTS.
2. ANCHOR MAY BE PLACED AT HIGH OR LOW FLUTE. CENTER ANCHOR IN THE FLUTE.
3. COMBINED WEIGHT OF CONDUITS BETWEEN SUPPORTS MAY NOT EXCEED 5 LBS/ LINEAR FOOT.
4. MAX CONDUIT SIZE OF 2" PERMITTED.

10 LARGE CONDUIT SUPPORT DETAIL ON CONCRETE FILLED METAL DECK

NO SCALE



ELECTRICAL METALLIC TUBING (EMT)	
TRADE SIZE	COMBINED WEIGHT (LBS/LINEAL FOOT)
1/2"	0.45
3/4"	0.72
1"	1.09
1-1/4"	1.73
1-1/2"	2.14
2"	3.09

NOTES:

1. SPACING BETWEEN HANGERS SHALL BE PER CEC REQUIREMENTS.
2. (1) CONDUIT PER THREADED ROD / CADDY CLIP SUPPORT SYSTEM. 1
3. MAXIMUM CONDUIT SIZE PERMITTED IS 2".
4. CONDUITS OVER 2" OR WEIGHTS OVER 5 LBS/ LINEAR FOOT REQUIRE CONTRACTOR FURNISHED SEISMIC SHOP DRAWINGS.

11 SMALL CONDUIT SUPPORT DETAIL ON CONCRETE FILLED METAL DECK

NO SCALE

UC DAVIS HEALTH BUILDING DEPARTMENT

APPROVED

REVIEWED FOR CODE COMPLIANCE

The set of plans and specifications must be kept on the job site at all times and it is unlawful to make any changes or alterations to the approved set without written permission from the Building Department.
The approval of this plan and specifications SHALL NOT be held to permit or approve the violation of any University Policy or State Building Code.

BY: Paul R Menard AIA, CBO DATE: 1/10/2024

PROJECT #: UCDH-2023-0230

UC Davis Health
Sacramento, CA 95817

BUILDING OFFICIAL:

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY

Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

CAMPUS FIRE MARSHAL:

ECOM ENGINEERING
1796 Tribute Road, Suite 100
Sacramento, CA. 95815
916.641.5600
916.641.1640 Fax
www.ecomeng.com

JOB NO. 22-Q141.00 PM. AD
DESIGNERS AD
DRAWN BY ECOM

REGISTERED PROFESSIONAL ENGINEER BENJAMIN SCHLENKER No. E 021982 Exp. 9/30/25 ELECTRICAL STATE OF CALIFORNIA

PROFESSIONAL OF RECORD:

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

HGA
1200 R Street, Suite 100
Sacramento, California 95811
Telephone 916.787.5100

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
R1	RESUBMITTAL 01	10/27/2023

NO	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

4150 V ST,
SACRAMENTO, CA 95817

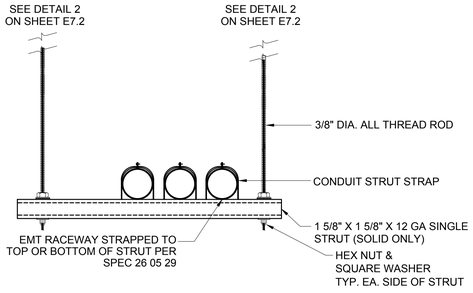
KEYPLAN

ACCOUNT NO. AC 9559630
BUILDING PATIENT SUPPORT SERVICES BUILDING (PSSB)
FLOOR/WING:
PROJECT TITLE: PSSB NETV2 UPGRADE
SHEET TITLE: DETAILS

ARCH. / ENGR.	FDAC JOB NO.	
HGA / ECOM	9559630	E7.1
UCDMC PROJECT MANAGER: KEN PICKETT	SCALE: AS SHOWN	
DESIGNED BY	DATE: OCT 27, 2023	
DRAWN BY	HGA COMMISSION NO. 1500-159-01	SHEET / OF

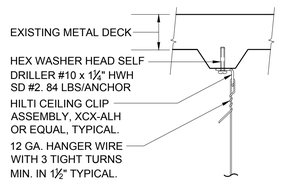
©COPYRIGHT HAMMEL, GREEN AND ABRAHAMSON, INC.

ELECTRICAL METALLIC TUBING (EMT)	
TRADE SIZE	RACEWAY WEIGHT (LBS/LINEAL FOOT)
1/2"	0.43
3/4"	0.69
1"	1.04
1-1/4"	1.66
1-1/2"	2.04
2"	2.93

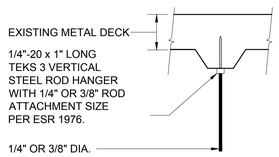


NOTES:
1. SPACING BETWEEN HANGERS SHALL BE PER CEC REQUIREMENTS.
2. ANCHOR MAY BE PLACED AT HIGH OR LOW FLUTE. CENTER ANCHOR IN THE FLUTE.
3. COMBINED WEIGHT OF CONDUITS BETWEEN SUPPORTS MAY NOT EXCEED 10 LBS/ LINEAR FOOT.
4. MAXIMUM SIZE OF CONDUIT/RACEWAY PERMITTED IN THIS DETAIL IS 2" DIAMETER.
5. CONTRACTOR RESPONSIBLE FOR PROVIDING SEISMIC SHOP DRAWINGS OUTLINING SEISMIC BRACING FOR TRAPEZE SUPPORT SYSTEMS CONTAINING CONDUITS LARGER THAN 2" OR SUPPORTING MORE THAN 10 LBS PER LINEAR FOOT.

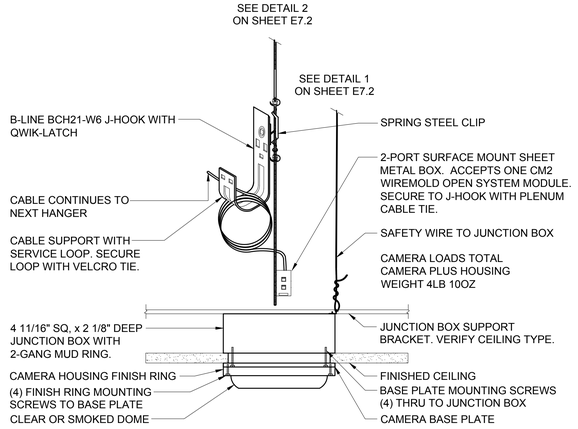
1 CONDUIT TRAPEZE SUPPORT DECK ATTACHMENT DETAIL
NO SCALE



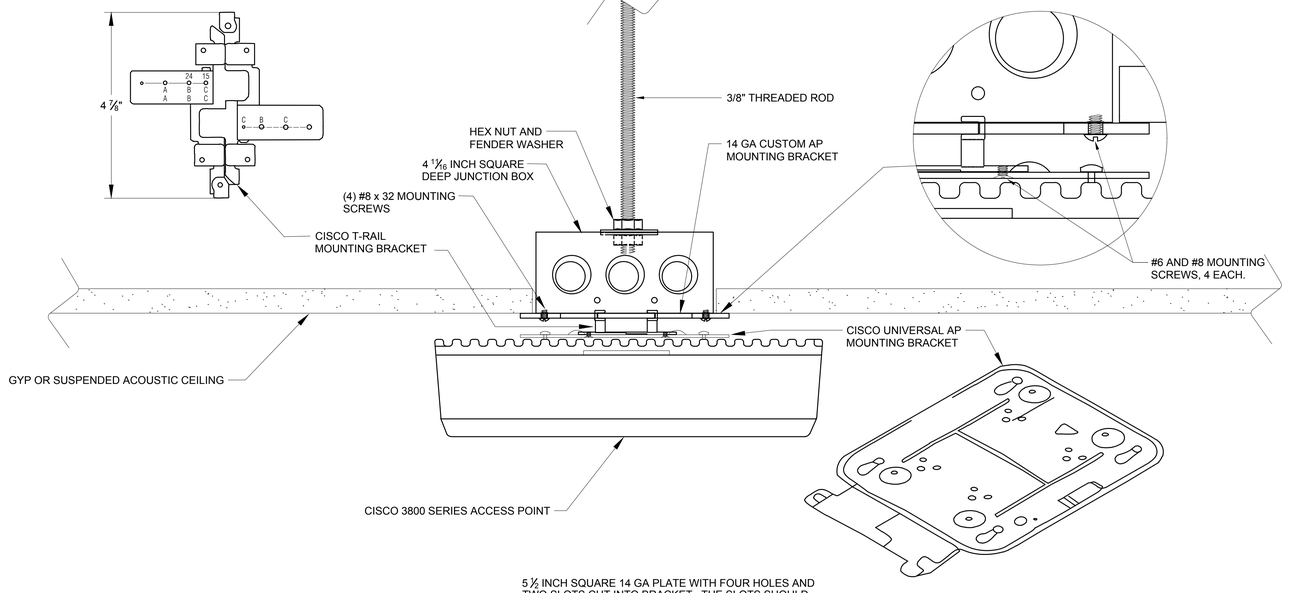
1 METAL DECK NO FILL HANGER WIRE SUPPORT
NO SCALE



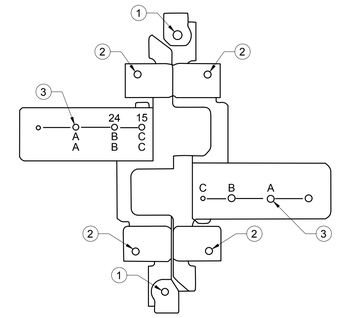
2 METAL DECK NO FILL THREADED ROD
NO SCALE



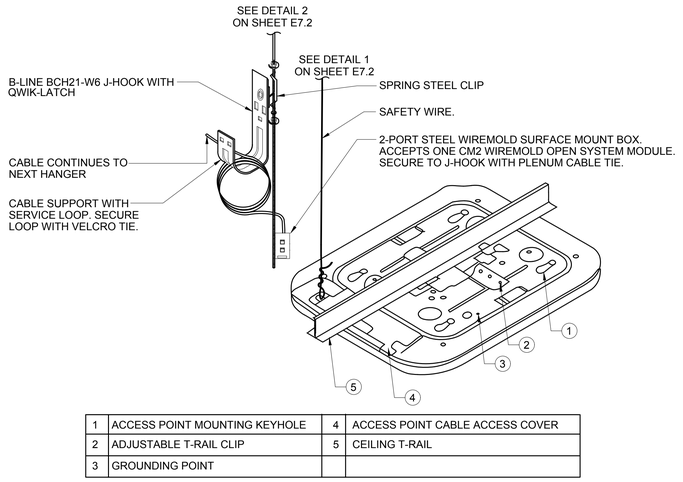
3 SECURITY CAMERA FLUSH IN CEILING MOUNTING DETAIL
NO SCALE



4 WIRELESS ACCESS POINT MOUNTING DETAIL - JUNCTION BOX
NO SCALE



1	T-RAIL LOCKING SCREWS	3	T-RAIL WIDTH DETENTS (A,B, OR C)
2	MOUNTING PLATE SCREW HOLES		



1	ACCESS POINT MOUNTING KEYHOLE	4	ACCESS POINT CABLE ACCESS COVER
2	ADJUSTABLE T-RAIL CLIP	5	CEILING T-RAIL
3	GROUNDING POINT		

5 WIRELESS ACCESS POINT MOUNTING DETAIL - CEILING RUNNER
NO SCALE

UC DAVIS HEALTH BUILDING DEPARTMENT
APPROVED
REVIEWED FOR CODE COMPLIANCE
The set of plans and specifications must be kept on the job site at all times and it is unlawful to make any changes or alterations to the approved set without written permission from the Building Department.
The approval of this plan and specifications SHALL NOT be held to permit or approve the violation of any University Policy or State Building Code.
BY: Paul R Menard AIA, CBO DATE: 1/10/2024
PROJECT #: UCDH-2023-0230
UC Davis Health
Sacramento, CA 95817
BUILDING OFFICIAL:

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
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1796 Tribute Road, Suite 100
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JOB NO. 22-Q141.00 PM. AD
DESIGNERS AD
DRAWN BY ECOM
BENJAMIN SCHLENKER No. E 021982 Exp. 9/30/25 ELECTRICAL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER
PROFESSIONAL OF RECORD:

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

HGA
1200 R Street, Suite 100
Sacramento, California 95811
Telephone 916.787.5100

CONSULTANT LOGO:

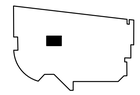
REV	REVISION DESCRIPTION	DATE
R1	RESUBMITTAL 01	10/27/2023

NO	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

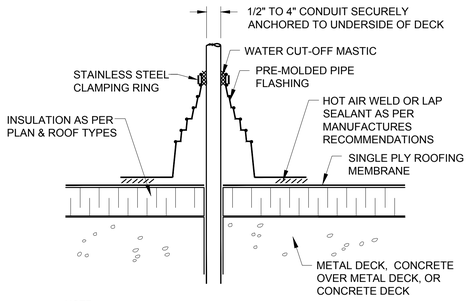
4150 V ST,
SACRAMENTO, CA 95817


KEYPLAN

ACCOUNT NO.: AC 9559630
BUILDING: PATIENT SUPPORT SERVICES BUILDING (PSSB)
PROJECT TITLE: PSSB NETV2 UPGRADE
SHEET TITLE: DETAILS

ARCH. / ENGR.	HGA / ECOM	FD&C JOB NO.	9559630
UCDMC PROJECT MANAGER	KEN PICKETT	SCALE	AS SHOWN
DESIGNED BY		DATE	OCT 27, 2023
DRAWN BY		HGA COMMISSION NO.	1500-159-01
		SHEET	E7.2
		OF	

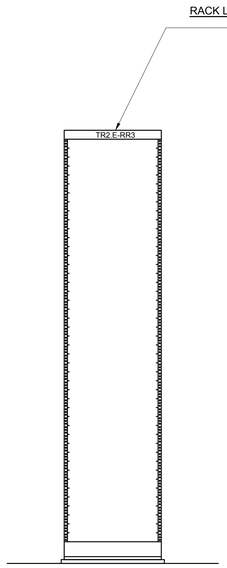
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NOTE:
REFER TO MANUFACTURE'S DETAILS AND INSTALLATION INSTRUCTIONS FOR SPECIFIC AND COMPLETE INFORMATION. SEALANTS, CLAMPS, FLASHING, INSULATION AND ROOFING MEMBRANE SUPPLIED BY OTHER.

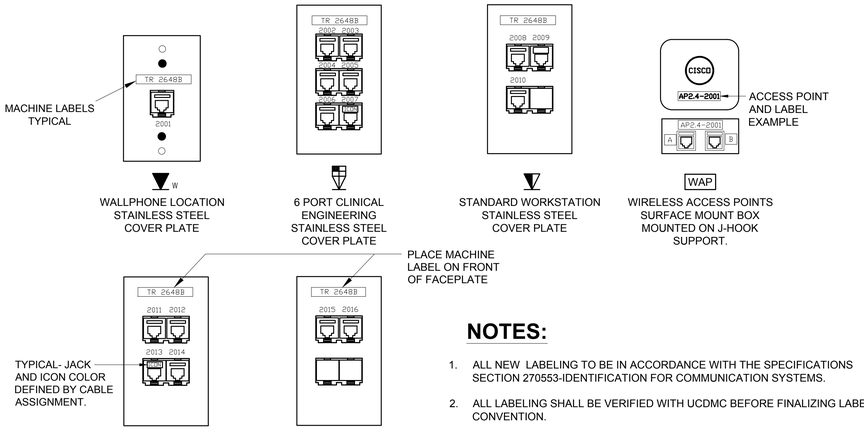
1 CONDUIT THROUGH ROOF PENETRATION

NO SCALE



2 EQUIPMENT RACK LABELING

NO SCALE



NOTES:

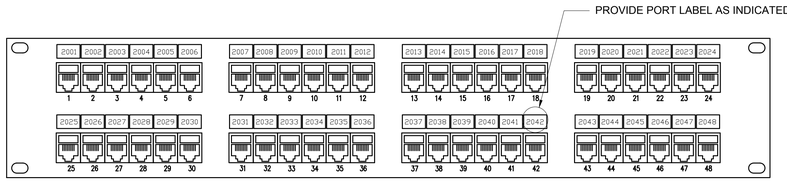
1. ALL NEW LABELING TO BE IN ACCORDANCE WITH THE SPECIFICATIONS SECTION 270553-IDENTIFICATION FOR COMMUNICATION SYSTEMS.
2. ALL LABELING SHALL BE VERIFIED WITH UCDMC BEFORE FINALIZING LABEL CONVENTION.
3. SEE TELECOMMUNICATIONS OUTLET SCHEDULE (T-002) FOR JACK PLACEMENT AND COLOR BY OUTLET TYPE.
4. COORDINATE WITH UCDH IT TO OBTAIN TELECOM ROOM NUMBERS SUCH AS TR1.1 OR TR 1A.
5. COORDINATE WITH UCDH IT TO VERIFY 4 OR 5 DIGIT JACK NUMBER ASSIGNMENT PLAN.

WORK AREA OUTLET (WAO) LABEL — TR 2648B
- TELECOM ROOM NUMBER.

WAO PORT LABEL — 2001
- WAO JACK DESIGNATOR - IN SEQUENTIAL ORDER STARTING WITH FIRST JACK ON FLOOR.
- FLOOR NUMBER.

3 TELECOM PLATE DETAILS

NO SCALE

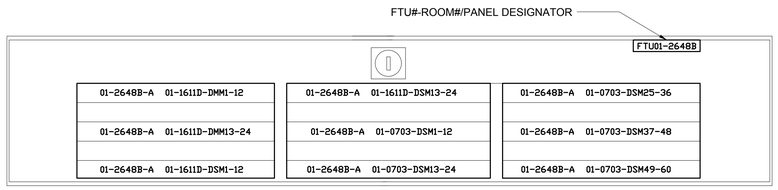


PORT LABELS — X###
- CABLE ID #, IN SEQUENTIAL ORDER STARTING WITH 2001
- FLOOR NUMBER

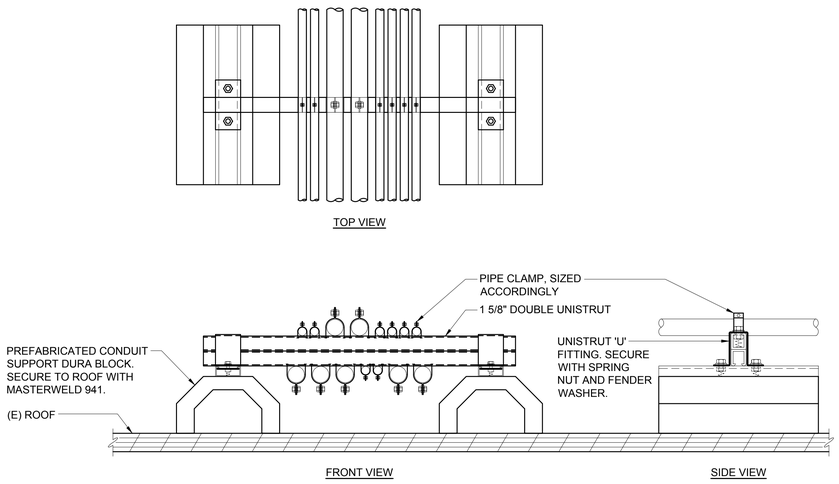
NOTES:
1. COORDINATE WITH UCDH IT TO VERIFY 4 OR 5 DIGIT JACK NUMBER ASSIGNMENT PLAN.

4 DATA PANEL LABELING DETAIL - TYPICAL

NO SCALE



FIBER PATCH PANEL — EXAMPLE = FTU/# - ROOM#/FIBER PANEL#
- FIBER TERMINATION UNIT NUMBER
- CAMPUS BUILDING NUMBER
- TR ROOM NUMBER
- FIBER PANEL NUMBER - STARTS WITH 'A'



5 CONDUIT SUPPORT ON ROOF SPANNING DURA BLOCKS

NO SCALE

6 OPTICAL FIBER PATCH PANEL LABELING DETAIL - TYPICAL

NO SCALE

** VERIFY & CONFIRM WITH OWNER ALL REQUIRED LABELING FIELDS

UC DAVIS HEALTH BUILDING DEPARTMENT
APPROVED
REVIEWED FOR CODE COMPLIANCE
The set of plans and specifications must be kept on the job site at all times and it is unlawful to make any changes or alterations to the approved set without written permission from the Building Department.
The approval of this plan and specifications SHALL NOT be held to permit or approve the violation of any University Policy or State Building Code.
BY: Paul R Menard AIA, CSO — DATE: 1/10/2024
PROJECT #: UCDH-2023-0230
UC Davis Health
Sacramento, CA 95817
BUILDING OFFICIAL:

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
CAMPUS FIRE MARSHAL:

ECOM ENGINEERING
1796 Tribute Road, Suite 100
Sacramento, CA. 95815
916.641.5600
916.641.1640 Fax
www.ecomeng.com

JOB NO. 22-Q141.00 PM. AD
DESIGNERS AD
DRAWN BY ECOM

REGISTERED PROFESSIONAL ENGINEER — BENJAMIN SCHLENKER — No. E 021982 — Exp. 9/30/23 — ELECTRICAL — STATE OF CALIFORNIA
PROFESSIONAL OF RECORD:

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

HGA
1200 R Street, Suite 100
Sacramento, California 95811
Telephone 916.787.5100
CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
NO	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

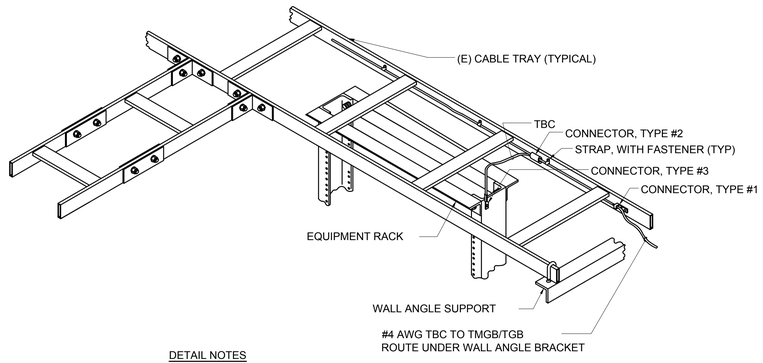
PSSB NETV2 UPGRADE

4150 V ST,
SACRAMENTO, CA 95817

ACCOUNT NO. AC 9559630
BUILDING: PATIENT SUPPORT SERVICES BUILDING (PSSB) BLDG # 14
FLOOR/WING:
PROJECT TITLE: PSSB NETV2 UPGRADE
SHEET TITLE: DETAILS

ARCH. / ENGR.	FD&C JOB NO.	
HGA / ECOM	9559630	E7.3
UCDMC PROJECT MANAGER: KEN PICKETT	SCALE: AS SHOWN	
DESIGNED BY	DATE: JUNE 16, 2023	
DRAWN BY	HGA COMMISSION NO.: 1500-159-01	SHEET / OF

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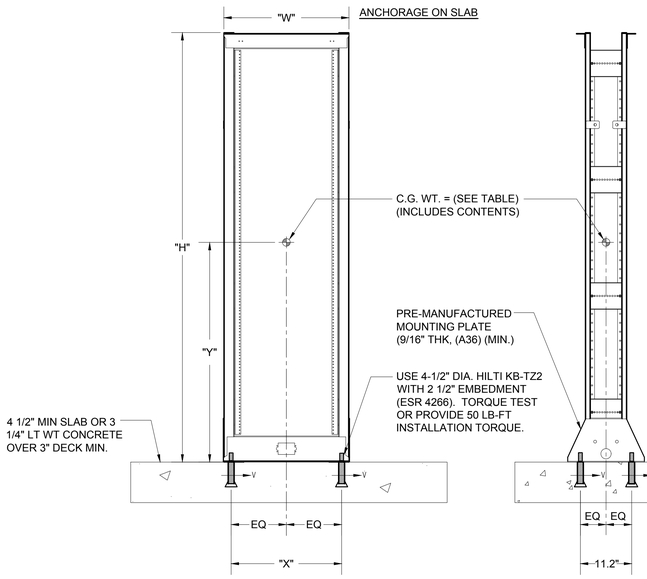


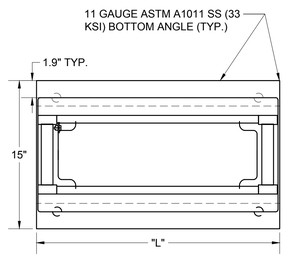
DETAIL NOTES

1. PROVIDE BONDING STRAPS AT ALL RUNWAY SPLICES.
2. PROVIDE BOND (CONNECTOR #2, TBC, & CONNECTOR #3) FOR EACH RACK.
3. CONNECTOR, TYPE #1: TBC-TO-RUNWAY CONNECTOR, SINGLE BARREL LUG.
4. CONNECTOR, TYPE #2: TBC TAP CONNECTOR, C-TYPE COMPRESSION TAP.
5. CONNECTOR, TYPE #3: TBC-TO-RACK CONNECTOR, BARREL LUG, 1-BOLT/1-HOLE.
6. FASTENER FOR STRAP SHALL CONSIST OF SELF-TAPPING SCREW WITH LOCK WASHER. FASTENER LENGTH SHALL NOT IMPEDE ON OPPOSITE SIDE OF STRINGER.
7. SEISMIC BRACING OF CABLE TRAY IS DEFERRED APPROVAL.

1 CABLE RUNWAY & RACK-BAY BONDING

NO SCALE





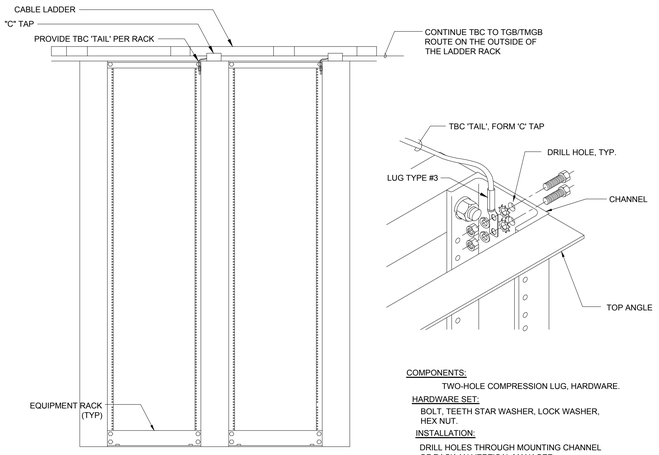
PLAN VIEW

MANUFACTURER	UNIT NUMBER	WEIGHT (lbs)	"H" (in)	"Y" (in)	"W" (in)	"X" (in)
B-LINE	SB556084XU-FB	750	84	42	20 5/16	16

*NOTE: MINIMUM CONCRETE STRENGTH F'C = 3000psi.

4 CFCI EQUIPMENT RACK - MOUNTED TO SLAB ON GRADE OR CONCRETE FILLED METAL DECK

NO SCALE



NOTE: EQUIPMENT RACKS MAY BE BONDED IN SERIES

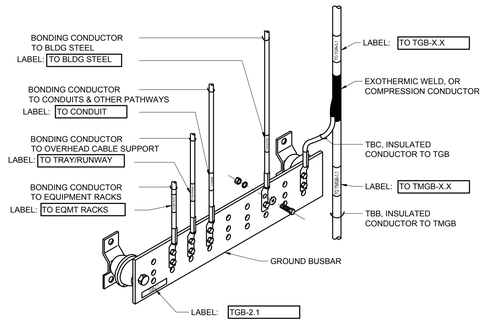
COMPONENTS:
TWO-HOLE COMPRESSION LUG, HARDWARE.

HARDWARE SET:
BOLT, TEETH STAR WASHER, LOCK WASHER, HEX NUT.

INSTALLATION:
DRILL HOLES THROUGH MOUNTING CHANNEL OF RACK AN VERTICAL MANAGER. INSTALL FASTENERS THROUGH CHANNEL AND VERTICAL MANAGER.

2 EQUIPMENT RACK - BAY BONDING

NO SCALE



NOTES: REFER TO ROOM PLANS FOR BUSBAR MOUNTING LOCATION.
REFER TO GROUNDING RISER DIAGRAM FOR LIST OF EQUIPMENT REQUIRING GROUNDING.
ITEMS SHOWN HERE ARE AN EXAMPLE.

4 TGB BONDING AND LABELING

NO SCALE

UC DAVIS HEALTH BUILDING DEPARTMENT

APPROVED

REVIEWED FOR CODE COMPLIANCE
The set of plans and specifications must be kept on the job site at all times and it is unlawful to make any changes or alterations to the approved set without written permission from the Building Department.
The approval of this plan and specifications SHALL NOT be held to permit or approve the violation of any University Policy or State Building Code.

BY: Paul R Menard AIA, CBO DATE: 1/10/2024

PROJECT #: UCDH-2023-0230

UC Davis Health
Sacramento, CA 95817

BUILDING OFFICIAL:

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
Wil Gilland
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

CAMPUS FIRE MARSHAL:

ECOM ENGINEERING
1796 Tribute Road, Suite 100
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JOB NO. 22-Q141.00 PM. AD
DESIGNERS AD
DRAWN BY ECOM

REGISTERED PROFESSIONAL ENGINEER
BENJAMIN SCHLENKER
No. E 021982
Exp. 9/30/23
ELECTRICAL
STATE OF CALIFORNIA

PROFESSIONAL OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE, SUITE 3010
SACRAMENTO, CALIFORNIA 95817
(916)734-7024

HGA
1200 R Street, Suite 100
Sacramento, California 95811
Telephone 916.787.5100

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
△NO	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

4150 V ST,
SACRAMENTO, CA 95817

ACCOUNT NO.
AC 9559630

BLDG (VNS):
PATIENT SUPPORT SERVICES BUILDING (PSSB) BLDG # 14
FLOOR/WING:

PROJECT TITLE:
PSSB NETV2 UPGRADE

SHEET TITLE:
DETAILS

ARCH. / ENGR.	FD&C JOB NO.	
HGA / ECOM	9559630	E7.4
UCDMC PROJECT MANAGER: KEN PICKETT	SCALE: AS SHOWN	
DESIGNED BY	DATE: JUNE 16, 2023	
DRAWN BY	HGA COMMISSION NO.: 1500-159-01	SHEET / OF

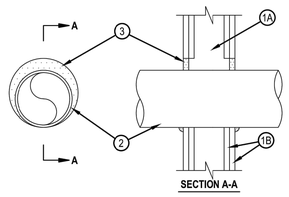
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System No. W-L-1054

WL 1054

CLASSIFIED c UL us
Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings —1 and 2 Hr (See Items 1 and 3)	F Ratings — 1 and 2 Hr (See Items 1 and 3)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating (Without Movement) at Ambient — Less Than 1 CFM/sq ft	FH Ratings —1 and 2 Hr (See Items 1 and 3)
L Rating (Without Movement) at 400°F — Less Than 1 CFM/sq ft	FTH Rating — 0 Hr
M Rating (Movement) — See Table 1	FTH Rating — 0 Hr
	L Rating at Ambient — Less Than 5.1 L/s/m2
	L Rating at 204°C — Less Than 5.1 L/s/m2



SECTION A-A

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. For M Rating, steel studs to be min 3-5/8 in. (92 mm) wide. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.
   B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. (819 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls.

The F and FH Ratings of the firestop system are equal to the fire rating of the wall assembly. The M Rating is applicable only to 1 hr rated walls.

Hilti Firestop Systems

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System No. W-L-1054

WL 1054

2. Through-Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. (57 mm). Pipe may be installed with continuous point contact. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
   C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm) . diam steel conduit.
   D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE MAX Intumescent Sealant

Movement Direction	Penetrant Item	Nominal Penetrant Diameter	Annular Space	Movement	Sealant Depth	F-Rating	L Rating with Movement
Y	2A, 2C*	2 in.	Max 2-1/4 in.	5%	5/8 in.	1 hr	N/A
Z	2A, 2C*	2 in.	2-1/4 in.	0.25 in.	5/8 in.	1 hr	N/A

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

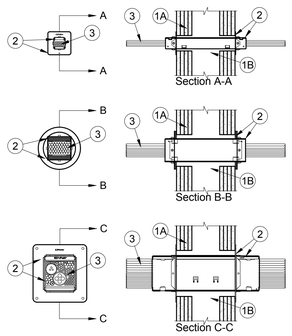
Hilti Firestop Systems

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1 GYPSUM WALL FIRE PENETRATION DETAIL

NO SCALE

System No. W-L-3377
F Ratings - 1, 2, 3 and 4 Hr (See Item 1)
T Ratings - 0, 1/2, 3/4, 1, 1-1/2 and 2 Hr (See Item 3)
L Rating At Ambient - Less Than 1 to 7.4 (See Item 2)
L Rating At 400 F - Less Than 1 to 6.7 (See Item 2)



1. Wall Assembly - The 1, 2, 3 or 4 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described within the individual U300, U400 or V400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall incorporate the following construction features:
   A. Studs - Wall framing shall consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* - Thickness, type, number of layers and fasteners as specified in the individual Wall and Partition Design. See Table for opening sizes.

   The hourly F Rating of the firestop system is dependent upon the hourly rating of the wall in which it is installed.

Specified Technologies Inc. 210 Evans Way Somerville, NJ 08876

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Created or Revised: June 3, 2011

(800)992-1180 • (908)526-8000 • FAX (908)231-8415 • E-Mail:techserv@stifirestop.com • Website:www.stifirestop.com

W-L-3377 1 of 3

2. Firestop Device* - Series 22 EZ Path device modules consist of a 1.4 by 1.4 by 10-1/2 in. (36 by 36 by 267 mm) long galv steel tube with an intumescent material lining. Series 33 EZ Path device modules consist of a 3 by 3 by 10-1/2 in. (76 by 76 by 267 mm) long galv steel tube with an intumescent material lining. Series 44 and Series 44+ EZ Path device modules consist of a 4 by 4-5/8 by 14 in. (102 by 118 by 356 mm) long galv steel tube with an intumescent material lining. Firestop device modules to be installed in accordance with the accompanying installation instructions. Firestop device modules secured in place by means of steel wall plates installed with gasketing material supplied with product. Steel wall plates installed on both sides of wall and secured to each device by means of steel screws provided with device. Firestop device module is to be installed with ends projecting an equal distance beyond each surface of the wall assembly. The annular space between the device and opening shall be min 0 in. (point contact) to max 1/8 in. (3 mm) for Series 22 device, max 1/2 in. (13 mm) for Series 33 device and max 1/4 in. (6 mm) for Series 44 device. The opening size and L Ratings for each device vary according to whether device module is blank (no cables) or loaded (with cables) and which cable type and size is used, as tabulated below:

Device	Cable Fill	Cable Sleeve	L-Rating (CFM)		Opening Size Diam or Dimensions, in. (mm)
			Ambient	400° F	
Series 22	0%	-	1.4	1.4	2 (51) or 1-3/4 x 1-3/4 (44 x 44)
Series 22	100%	3A	Less Than 1	Less Than 1	2 (51) or 1-3/4 x 1-3/4 (44 x 44)
Series 22	100%	3F	Less Than 1	Less Than 1	2 (51) or 1-3/4 x 1-3/4 (44 x 44)
Series 33	0%	-	Less Than 1	Less Than 1	4 (102) or 3-1/4 x 3-1/4 (82 x 82)
Series 33	100%	3A	4	3	4 (102) or 3-1/4 x 3-1/4 (82 x 82)
Series 33	100%	3F	1.3	Less Than 1	4 (102) or 3-1/4 x 3-1/4 (82 x 82)
Series 33	100%	3G, 3H	7	2	4 (102) or 3-1/4 x 3-1/4 (82 x 82)
Series 33	100%	3J	1.8	1.8	4 (102) or 3-1/4 x 3-1/4 (82 x 82)
Series 44	0%	-	2.5	2.5	4 (102) or 3-1/4 x 3-1/4 (82 x 82)
Series 44	100%	3A	7.4	5	6 (152) or 4-1/8 x 4-3/4 (120 x 120)
Series 44	100%	3F, 3G	6.2	4.5	6 (152) or 4-1/8 x 4-3/4 (120 x 120)
Series 44+	0%	-	Less Than 1	Less Than 1	4 (102) or 3-1/4 x 3-1/4 (82 x 82)
Series 44+	100%	3A	7.4	5	6 (152) or 4-1/8 x 4-3/4 (120 x 120)
Series 44+	100%	3F, 3G	6.7	6.7	6 (152) or 4-1/8 x 4-3/4 (120 x 120)

SPECIFIED TECHNOLOGIES ING EZ PATH Series 22, 33, 44 or 44+ Fire Rated Pathway

2A. Firestop Device* - Extension Module - (Optional, Not Shown) - Module attached to ends of Series 33, Series 44 or Series 44+ firestop device (Item 2) to increase its length to facilitate installation in thicker walls. Each module consists of a galv steel tube with an intumescent material lining. Extension module to be installed in accordance with the accompanying installation instructions. When module is used, firestop device (Item 2) and extension module(s) secured in place by means of steel wall plates installed with gasketing material supplied with product. Steel wall plates installed on both sides of wall and secured to each device or extension module(s) by means of steel set screws provided with wall plates. Firestop device and extension module(s) assembly to be installed with ends projecting an equal distance beyond each surface of the wall assembly.

SPECIFIED TECHNOLOGIES ING EZ PATH Series 33 or Series 44+ Extension

Specified Technologies Inc. 210 Evans Way Somerville, NJ 08876

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Created or Revised: June 3, 2011

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W-L-3377 2 of 3

3. Cables - Within the loading area for the firestop device module, the loose or grouped cables may represent a 0 to 100 percent visual fill. Cables to be rigidly supported on both sides of the wall assembly. Any combination of the following types of cables may be used:
   A. Max 400 pair No. 24 AWG (or smaller) copper conductor telecommunication cable with polyvinyl chloride (PVC) or plenum-rated jacketing and insulation.
   B. Max 750 kcmil single copper conductor power cable with XLPE jacket and insulation
   C. Max 7/C No. 12 AWG copper conductor control cable with PVC or XLPE jacket and insulation.
   D. Max 3/C No. 2/0 AWG metal clad or armored cable with steel or aluminum jacket.
   E. Max 3/C No. 8 AWG NM cable (Romex) with PVC insulation and jacket.
   F. Max four pair No. 22 AWG (or smaller) copper conductor data cable with PVC or plenum rated jacketing and insulation.
   G. Coaxial cable with fluorinated ethylene or PVC insulation and jacketing having a max diam of 5/8 in. (16 mm).
   H. Optical fiber cable with PVC or polyethylene (PE) jacket and insulation and having a max diam of 5/8 in. (16 mm).
   I. Optical Fiber Raceway+ - Max 1-1/2 in. (38 mm) diam (or smaller) optical fiber raceway ("innerduct") formed of either PVC or polyvinylidene fluoride (PVDF) with optical fiber cable fill. Raceways installed in accordance with the National Electrical Code (NFPA 70).
   J. Max RG6/U coaxial cable with fluorinated ethylene, polyethylene (PE), PVC or plenum rated jacketing and insulation.

   When Series 22 EZ Path device modules are used and when the hourly rating of the wall assembly is 1 hr, the T Rating is 3/4 hr except that for Items 3F, 3G and 3H, the T Rating is 1 hr. When the hourly fire rating of the wall assembly is 2 hr or greater, the T Rating is 3/4 hr when cables are installed. When no cables are installed within the device module, the T Rating is 1 hr in 1 hr walls and 1-1/2 hr for 2, 3 and 4 hr walls. When Item 3A, 3B, 3C, 3D or 3E is used, the maximum F Rating is 2 hr. When max 200 pair No. 24 AWG telecommunication cable and/or 350 kcmil power cable is used or when Item 3F, 3G, 3H or 3I is used, the maximum F Rating is 4 hr.

   When Series 33 EZ Path device modules are used and when the hourly rating of the wall assembly is 1 hr, the T Rating is 3/4 hr. When the hourly fire rating of the wall assembly is greater than 1 hr, the T Rating is 3/4 hr when Item 3A, 3B, 3C, 3D or 3E is used. Otherwise the T Rating is 1 hr. When Item 3A, 3B, 3C, 3D or 3E is used, the maximum F Rating is 2 hr. When max 200 pair No. 24 AWG telecommunication cable is used or when Item 3F, 3G, 3H or 3I is used, the maximum F Rating is 4 hr.

   When Series 44 EZ Path device modules are used and when Item 3A, 3B, 3C, 3D or 3E is used, the max F Rating is 3 hr. When Item 3F, 3G, 3H or 3I is used, the max F Rating is 4 hr. When cable fill within the device is min 0 percent (empty) to max 20 percent, the T Rating is 0 Hr. When cable fill within the device is greater than 20 percent, the T Rating is 1/2 Hr.

   When Series 44 + EZ Path device modules are used and when Item 3A, 3B, 3C, 3D or 3E is used, the max F Rating is 3 hr and the T Rating is 1 hr. When Item 3F or 3G is used, the max F Rating is 4 hr and the T Rating is 1-1/2 hr. When Item 3H is used, the max F Rating is 4 hr and the T Rating is 2 hr. When Item 3I is used, the max F Rating is 4 hr and the T Rating is 3/4 hr. When device empty, the T Rating is 1-1/2 Hr.

   +Bearing the UL Listing Mark

   *Bearing the UL Classification Mark

Specified Technologies Inc. 210 Evans Way Somerville, NJ 08876

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Created or Revised: June 3, 2011

(800)992-1180 • (908)526-8000 • FAX (908)231-8415 • E-Mail:techserv@stifirestop.com • Website:www.stifirestop.com

W-L-3377 3 of 3

2 EZ PATH SERIES 22, 33 AND 44 FIRE RATED PATHWAY - WL 3377

NO SCALE

BUILDING OFFICIAL:

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

CAMPUS FIRE MARSHAL:

ECOM ENGINEERING
1796 Tribute Road, Suite 100
Sacramento, CA. 95815
916.641.5600
916.641.1640 Fax
www.ecomeng.com

JOB NO. 22-Q141.00 PM. AD
DESIGNERS AD
DRAWN BY ECOM

REGISTERED PROFESSIONAL ENGINEER
BENJAMIN SCHLENKER
No. E 021982
Exp. 9/30/23
ELECTRICAL
STATE OF CALIFORNIA

PROFESSIONAL OF RECORD:

UCDAVIS HEALTH
Facilities Design & Construction
4800 2nd Avenue, Suite 3010
Sacramento, California 95817
(916)734-9034

HGA
1200 R Street, Suite 100
Sacramento, California 95811
Telephone 916.787.5100

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE

NO	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

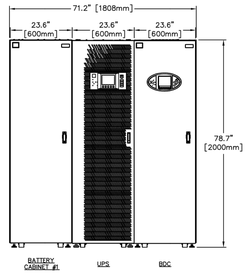
4150 V ST,
SACRAMENTO, CA 95817

ACCOUNT NO. AC 9559630
BUILDING PATIENT SUPPORT SERVICES BUILDING (PSSB) BLDG # 14
FLOOR/WING
PROJECT TITLE PSSB NETV2 UPGRADE
SHEET TITLE DETAILS

ARCH. / ENGR.	FD&C JOB NO.	
HGA / ECOM	9559630	
UCDMC PROJECT MANAGER: KEN PICKETT	SCALE: AS SHOWN	E7.5
DESIGNED BY	DATE: JUNE 16, 2023	
DRAWN BY	HGA COMMISSION NO. 1500-159-01	SHEET / OF

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FRONT VIEW

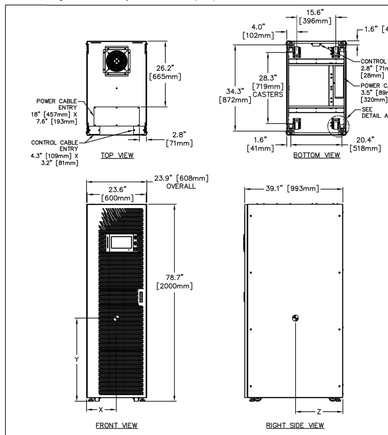
NOTES:
1. ALL DIMENSIONS ARE IN inches [mm].
2. 24" [610] MINIMUM CLEARANCE ABOVE UNIT FOR AIR EXHAUST. 36" [914] FRONT ACCESS REQUIRED FOR SERVICE.
3. KEEP CABINET WITHIN 15 DEGREES OF VERTICAL.
4. TOP AND BOTTOM CABLE ENTRY AVAILABLE THROUGH REMOVABLE ACCESS PLATES. REMOVE, PUNCH TO SUIT CONDUIT SIZE AND REPLACE.
5. UNIT BOTTOM IS STRUCTURALLY ADEQUATE FOR FORKLIFT HANDLING.
6. CONTROL WIRING AND POWER WIRING MUST BE RUN IN SEPARATE CONDUITS.
7. ALL WIRING IS TO BE IN ACCORDANCE WITH NATIONAL AND LOCAL ELECTRICAL CODES.
8. ALL BATTERY CABINETS MUST BE POSITIONED ON THE LEFT SIDE OF UPS.

DRAWN BY K. STACY	SHEET NO. 1 OF 1	LINE-UP DETAIL 10kVA - 100kVA UPS TO BATTERY CABINET (600mm) AND BDC LIEBERT EXM			
CHK BY M. ROCKWELL	ECN NO.		DWG. NO. EXM13015	DATE 12/2/15	REV. # 2
REF. DWG.	ORDER NO.		1050 DEARBORN DRIVE P.O. BOX 29186 COLUMBUS, OHIO 43229		

VERTIV.

FILE NAME: I:\app\Ohio App\AE Submittals - Standards\MXM dwg\[01] Line-Up Details\EXM13015-02.dwg

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NOTES:
1. ALL DIMENSIONS ARE IN inches [mm].
2. 24" [610] MINIMUM CLEARANCE ABOVE UNIT FOR AIR EXHAUST. 36" [914] FRONT ACCESS REQUIRED FOR SERVICE.
3. KEEP CABINET WITHIN 15 DEGREES OF VERTICAL.
4. TOP AND BOTTOM CABLE ENTRY AVAILABLE THROUGH REMOVABLE ACCESS PLATES. REMOVE, PUNCH TO SUIT CONDUIT SIZE AND REPLACE.
5. UNIT BOTTOM IS STRUCTURALLY ADEQUATE FOR FORKLIFT HANDLING.
6. CONTROL WIRING AND POWER WIRING MUST BE RUN IN SEPARATE CONDUITS.
7. ALL WIRING IS TO BE IN ACCORDANCE WITH NATIONAL AND LOCAL ELECTRICAL CODES.
8. OVERALL DIMENSIONS ARE SHOWN WITH SIDE PANELS.

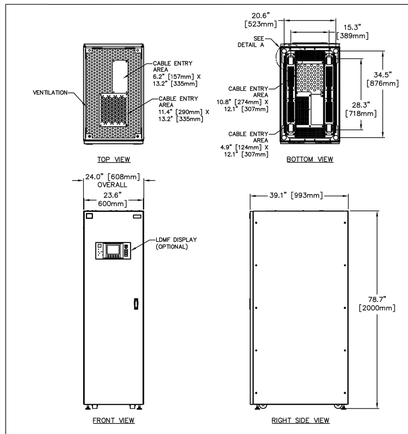
UPS kVA RATING	CENTER OF GRAVITY in(mm)		
	X	Y	Z
10 – 20	11.8"(300mm)	33.1"(840mm)	18.9"(480mm)
30 – 40	11.8"(300mm)	33.1"(840mm)	18.9"(480mm)

DRAWN BY K. STACY	SHEET NO. 1 OF 2	OUTLINE DRAWING 10kVA - 40kVA UPS LIEBERT EXM			
CHK BY J. SHIPMAN	ECN NO.		DWG. NO. EXM12001A	DATE 3/23/17	REV. # 6
REF. DWG.	ORDER NO.		1050 DEARBORN DRIVE P.O. BOX 29186 COLUMBUS, OHIO 43229		

VERTIV.

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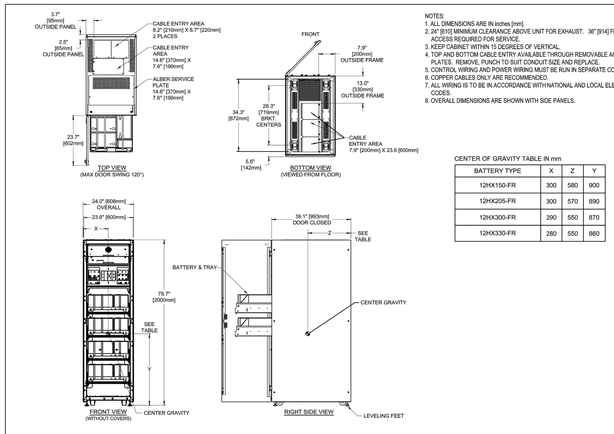
NOTES:
1. ALL DIMENSIONS ARE IN inches [mm].
2. 24" [610] MINIMUM CLEARANCE ABOVE UNIT FOR AIR EXHAUST. 36" [914] FRONT ACCESS REQUIRED FOR SERVICE.
3. KEEP CABINET WITHIN 15 DEGREES OF VERTICAL.
4. TOP AND BOTTOM CABLE ENTRY AVAILABLE THROUGH REMOVABLE ACCESS PLATES. REMOVE, PUNCH TO SUIT CONDUIT SIZE AND REPLACE.
5. UNIT BOTTOM IS STRUCTURALLY ADEQUATE FOR FORKLIFT HANDLING.
6. CONTROL WIRING AND POWER WIRING MUST BE RUN IN SEPARATE CONDUITS.
7. COPPER CABLES ONLY ARE RECOMMENDED.
8. ALL WIRING IS TO BE IN ACCORDANCE WITH NATIONAL AND LOCAL ELECTRICAL CODES.
9. OVERALL DIMENSIONS ARE SHOWN WITH SIDE PANELS.

DRAWN BY K. STACY	SHEET NO. 1 OF 2	OUTLINE DRAWING 10kVA - 100kVA BYPASS DISTRIBUTION CABINET (600mm) LIEBERT EXM			
CHK BY J. SHIPMAN	ECN NO.		DWG. NO. EXM12008A	DATE 3/23/17	REV. # 3
REF. DWG.	ORDER NO.		1050 DEARBORN DRIVE P.O. BOX 29186 COLUMBUS, OHIO 43229		

VERTIV.

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NOTES:
1. ALL DIMENSIONS ARE IN inches [mm].
2. 24" [610] MINIMUM CLEARANCE ABOVE UNIT FOR EXHAUST. 36" [914] FRONT ACCESS REQUIRED FOR SERVICE.
3. KEEP CABINET WITHIN 15 DEGREES OF VERTICAL.
4. TOP AND BOTTOM CABLE ENTRY AVAILABLE THROUGH REMOVABLE ACCESS PLATES. REMOVE, PUNCH TO SUIT CONDUIT SIZE AND REPLACE.
5. CONTROL WIRING AND POWER WIRING MUST BE RUN IN SEPARATE CONDUITS.
6. COPPER CABLES ONLY ARE RECOMMENDED.
7. ALL WIRING IS TO BE IN ACCORDANCE WITH NATIONAL AND LOCAL ELECTRICAL CODES.
8. OVERALL DIMENSIONS ARE SHOWN WITH SIDE PANELS.

CENTER OF GRAVITY TABLE IN mm

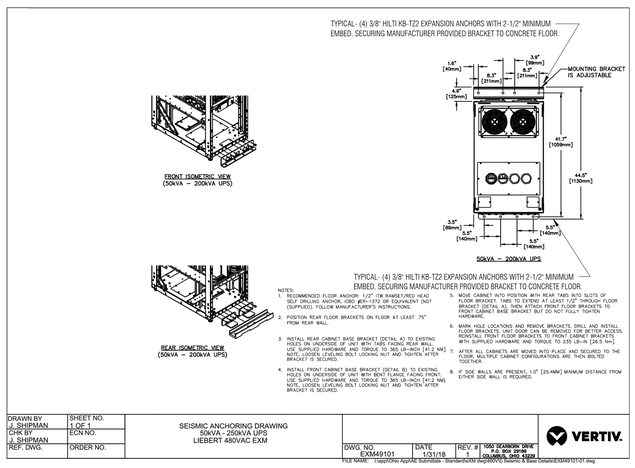
BATTERY TYPE	X	Z	Y
12HX150-FR	300	580	900
12HX205-FR	300	570	890
12HX300-FR	290	550	870
12HX330-FR	280	550	860

DRAWN BY K. STACY	SHEET NO. 1 OF 2	OUTLINE DRAWING 10kVA - 200kVA BATTERY CABINET (600mm) LIEBERT EXM			
CHK BY J. SHIPMAN	ECN NO.		DWG. NO. EXM12004A	DATE 3/23/17	REV. # 4
REF. DWG.	ORDER NO.		1050 DEARBORN DRIVE P.O. BOX 29186 COLUMBUS, OHIO 43229		

VERTIV.

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Document generated 14 October 2021 12:29 PM (EST).



NOTES:
1. RECOMMENDED FLOOR ANCHOR: 1/2" (1)K RAISED/SERIES HEAD SELF DRILLING ANCHOR, ICBO #ER-1372, OR EQUIVALENT (NOT SUPPLIED). FOLLOW MANUFACTURER'S INSTRUCTIONS.
2. POSITION REAR FLOOR BRACKETS ON FLOOR AT LEAST .75" FROM REAR WALL.
3. INSTALL REAR CABINET BASE BRACKET (DETAIL A) TO EXISTING HOLES ON UNDERSIDE OF UNIT WITH TABS FACING REAR WALL. USE SUPPLIED HARDWARE, AND TORQUE TO 365 LB–INCH [41.2 NM]. NOTE, LOOSEN LEVELING BOLT LOCKING NUT AND TIGHTEN AFTER BRACKET IS SECURED.
4. INSTALL FRONT CABINET BASE BRACKET (DETAIL B) TO EXISTING HOLES ON UNDERSIDE OF UNIT WITH TABS FACING FRONT. USE SUPPLIED HARDWARE, AND TORQUE TO 365 LB–INCH [41.2 NM]. NOTE, LOOSEN LEVELING BOLT LOCKING NUT AND TIGHTEN AFTER BRACKET IS SECURED.
5. MOVE CABINET INTO POSITION WITH REAR TABS INTO SLOTS OF FLOOR BRACKET. TABS TO EXTEND AT LEAST 1/2" THROUGH FLOOR BRACKET (DETAIL A). THEN ATTACH FRONT FLOOR BRACKETS TO FRONT CABINET BASE BRACKET BUT DO NOT FULLY TIGHTEN HARDWARE.
6. MARK HOLE LOCATIONS AND REMOVE BRACKETS. DRILL AND INSTALL ANCHORS. REINSTALL BRACKETS AND ANCHOR TO FLOOR. THEN REINSTALL FRONT FLOOR BRACKETS TO FRONT CABINET BRACKETS WITH SUPPLIED HARDWARE AND TORQUE TO 235 LB–IN [26.5 Nm].
7. AFTER ALL CABINETS ARE MOVED INTO PLACE AND SECURED TO THE FLOOR, MULTIPLE CABINET CONFIGURATIONS ARE THEN BOLTED TOGETHER.
8. IF SIDE BALLS ARE PRESENT, 1.0" [25.4MM] MINIMUM DISTANCE FROM EITHER SIDE WALL IS REQUIRED.

DRAWN BY J. SHIPMAN	SHEET NO. 1 OF 1	SEISMIC ANCHORING DRAWING 50kVA - 250kVA UPS LIEBERT 480VAC EXM			
CHK BY J. SHIPMAN	ECN NO.		DWG. NO. EXM49101	DATE 1/31/18	REV. # 1
REF. DWG.	ORDER NO.		1050 DEARBORN DRIVE P.O. BOX 29186 COLUMBUS, OHIO 43229		

VERTIV.

FILE NAME: I:\app\Ohio App\AE Submittals - Standards\MXM dwg\[09] Outline & Base Details\EXM49101-01.dwg

1 UPS FLOOR MOUNTING DETAIL

NO SCALE

BUILDING OFFICIAL:

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
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CAMPUS FIRE MARSHAL:

ECOM ENGINEERING
1796 TRIBUTE ROAD, SUITE 100
SACRAMENTO, CA. 95815
916.641.5600
916.641.1640 FAX
WWW.ECOMENG.COM

JOB NO. 22-Q141.00 PM. AD
DESIGNERS AD
DRAWN BY ECOM

REGISTERED PROFESSIONAL ENGINEER
BENJAMIN SCHLENKER
No. E 021982
Exp. 9/30/23
ELECTRICAL
STATE OF CALIFORNIA

PROFESSIONAL OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE, SUITE 3010
SACRAMENTO, CALIFORNIA 95817
(916)734-7024

HGA
1200 R Street, Suite 100
Sacramento, California 95811
Telephone 916.787.5100

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE

NO	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

PSSB NETV2 UPGRADE

4150 V ST,
SACRAMENTO, CA 95817

ACCOUNT NO: AC 9559630
BUILDING: PATIENT SUPPORT SERVICES BUILDING (PSSB) BLDG # 14
FLOOR/WING:
PROJECT TITLE: PSSB NETV2 UPGRADE
SHEET TITLE: DETAILS

ARCH. / ENGR.	FD&C JOB NO.	
HGA / ECOM	9559630	
UCDMC PROJECT MANAGER KEN PICKETT	SCALE AS SHOWN	E7.6
DESIGNED BY	DATE JUNE 16, 2023	
DRAWN BY	HGA COMMISSION NO. 1500-159-01	SHEET / OF

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