ARCHITECTURAL ABBREVIATIONS

A

AB	ANCHOR BOLT
ABBREV	ABBREVIATION
AC	ACOUSTICAL CEILING, ASPHALT CONCRETE
ACC	ACCESSORY
ACOUS	ACOUSTICAL
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN
ADD ALT	ADDITIVE ALTERNATE
ADDL	ADDITIONAL
ADJ	ADJUSTABLE
AFCP	ALUMINUM FACED COMPOSITE PANEL
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AFS	ABOVE FINISH SLAB
AP	ACCESS PANEL
ARCH	ARCHITECT(URAL)
ASPH	ASPHALT

B

BAT	BATTERY
BCS	BABY CHANGING STATION
BD	BOARD
BET	BETWEEN
BITUM	BITUMINOUS
BKG	BACKING
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BT	BOLT
BOT	BOTTOM
BURS	BUILT UP ROOFING SYSTEM

C

CAB	CABINET
CARP	CARPET
CB	CATCH BASIN
CCTV	CLOSE CIRCUIT TELEVISION
CEM	CEMENT
CER TILE	CERAMIC TILE
CFE	CONTRACTOR FURNISHED EQUIPMENT
CG	CORNER GUARD
CI	CAST IRON
CIP	CAST IN PLACE
CL	CENTER LINE
CLG	CEILING
CLJ / CJ	CONTROL JOINT
CLR	CLEAR
CNTR	COUNTER
CNTRD	CENTERED
CO	CLEAN OUT
COL	COLUMN
COMP	COMPOSITE
CONC	CONCRETE
CONF	CONFERENCE
CONN	CONNECTION
CONT	CONTINUOUS
CR	COLD-ROLLED
CSK	COUNTERSUNK
CSWK	CASEWORK
CTOP	COUNTERTOP
CUST	CUSTOM
CW	COLD WATER

D

DBL	DOUBLE
DEMO	DEMOLISH
DIA	DIAMETER
DIAG	DIAGONAL
DIFF	DIFFUSER
DIM	DIMENSION
DMPF	DAMPPROOFING
DN	DOWN
DS	DOWNSPOUT
DT	DRAIN TILE, DRAPERY TRACK
DWTR	DUMBWAITER

E

(E)	EXISTING
E	EAST
EA	EACH
EL	ELEVATION
ELEV	ELEVATOR, OR ELEVATION
EMERG	EMERGENCY
ENG	ENGINEERED
EO	ELECTRICAL OUTLET
EOS	EDGE OF SLAB
EP	ELECTRICAL PANEL
EQ	EQUAL
EQUIV	EQUIVALENT
EXH	EXHAUST
EXP	EXPANSION
EXTR	EXTRUSION

F

FA	FIRE ALARM
FAWS	FLUID-APPLIED WATERPROOFING SYSTEM
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FDN	FOUNDATION
FEC	FIRE EXTINGUISHER CABINET
FHWS	FLAT HEAD WOOD SCREW
FIN	FINISH
FIN FL	FINISH FLOOR
FIN GR	FINISH GRADE
FL	FLOOR(ING)
FLAM	FLAMMABLE
FLASH	FLASHING
FLUOR	FLUORESCENT
FNR	FEMININE NAPKIN RECEPTACLE
FOB	FACE OF BEAM
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOP	FACE OF PARTITION ASSEMBLY
FOS	FACE OF STUDS
FRPF	FIREPROOFING
FRTW	FIRE RETARDANT TREATED WOOD
FSTNR	FASTENER
FT	FOOT, FEET
FTG	FOOTING
FURN	FURNITURE
FURR	FURRING
FXT	FIXTURE

G

GA	GAUGE, GAGE
GALV	GALVANIZED
GALVI	GALVANIZED IRON
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GD	GUTTER DRAIN
GFCI	GROUND-FAULT CIRCUIT INTERRUPTOR
GFRC	GLASS-FIBER REINFORCED CONCRETE
GFRG	GLASS-FIBER REINFORCED GYPSUM
GL	GLASS
GL BLK	GLASS BLOCK
GLU LAM	GLUE LAMINATED
GLZ	GLAZING
GND	GROUND
GR	GRADE OR GRADING
GYP BD	GYPSUM BOARD
GYP PLAS	GYPSUM PLASTER

H

HB	HOSE BIBB
HD	HEAD, HOT DIPPED, OR HAND DRYER
HDBD	HARDBOARD
HDG	HOT DIPPED GALVANIZED
HDWD	HARDWOOD
HDWE	HARDWARE
HGT	HEIGHT
HM	HOLLOW METAL
HNDRL	HANDRAIL
HORIZ	HORIZONTAL
HPT	HIGH POINT
HR	HOUR
HVAC	HEATING-VENTILATION-AIR CONDITIONING
HVP	HARDWOOD VENEER PLYWOOD
HW	HOT WATER

I - J - K

ID	INSIDE DIAMETER
INCAND	INCANDESCENT
INFO	INFORMATION
INSUL	INSULATION
INTR	INTERIOR
JB	JUNCTION BOX
JT	JOINT

L

LAV	LAVATORY
LCD	LINEAR CEILING DIFFUSER
LH	LEFT HAND
LIN	LINEAR
LOC / LOCS	LOCATION / LOCATIONS
LPT	LOW POINT
LT	LIGHT
LTG	LIGHTING

M

MB	MACHINE BOLT
MC	MEDICINE CABINET
MDO	MEDIUM DENSITY OVERLAY
MEMB	MEMBRANE
MET / MTL	METAL
MFR	MANUFACTURER
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
ML	METAL LATH
MO	MASONRY OPENING
MOD	MODULE, MODULAR
MR	MOISTURE RESISTANT
MTD	MOUNTED
MTNG	MOUNTING
MULL	MULLION

N

(N)	NEW
N	NORTH
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE

O

OC	ON CENTER
OCC	OCCUPANT
OD	OUTSIDE DIAMETER
OH	OPPOSITE HAND
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OPNG	OPENING
OPS	OVERHEAD PROJECTION SCREEN
ORD	OVERFLOW ROOF DRAIN
OVHD	OVERHEAD

P

PBD	PARTICLEBOARD
PC	PORTLAND CEMENT
PDF	POWDER DRIVEN FASTENER
PENT	PENTHOUSE
PERF	PERFORATED
PERIM	PERIMETER
PERP	PERPENDICULAR
PL	PLATE OR PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLYWD	PLYWOOD
PNL	PANEL
POC	POINT OF CONNECTION
POT	PATH OF TRAVEL
PRKG	PARKING
PROP	PROPERTY
PT	POINT, OR PRESSURE TREATED
PTD	PAINTED
PTN	PARTITION
PVG	PAVING

Q - R

QT	QUARRY TILE
QTY	QUANTITY
RA	RETURN AIR
RAD	RADIUS
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RDWD	REDWOOD
RECMD	RECOMMENDED
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCE (D) (ING) (MENT)
REQD	REQUIRED
REQMNTS	REQUIREMENTS
RESIL	RESILIENT
RET	RETURN
REV	REVISION
RH	RIGHT HAND, OR ROBE HOOK
RND	ROUND
RO	ROUGH OPENING
RWL	RAIN WATER LEADER

S

S	SOUTH
SA	SUPPLY AIR
SAD	SEE ARCHITECTURAL DRAWINGS
SASF	SELF-ADHERING SHEET FLASHING
SB	SPLASH BLOCK
SC	SOLID CORE
SCD	SEE CIVIL DRAWINGS
SCHED	SCHEDULE
SD	SOAP DISH
SDL	SOAP DISPENSER, LIQUID
SED	SEE ELECTRICAL DRAWINGS
SEP JT	SEPARATION JOINT
SF	SQUARE FEET
SFAD	SEE FIRE ALARM DRAWINGS
SFD	SEE FIELD DRAWINGS
SHT	SHEET, SHEETING
SHV	SHELVES, SHELVING
SI	SQUARE INCH(ES)
SID	SEE IRRIGATION DRAWINGS
SIM	SIMILAR
SK	SINK
SLD	SEE LANDSCAPE DRAWINGS
SMD	SEE MECHANICAL DRAWINGS
SMS	SHEET METAL SCREW
SPD	SEE PLUMBING DRAWINGS
SPEC	SPECIFICATION
SPKLR	SPRINKLER
SPKR	SPEAKER
SQ	SQUARE
SQ FT	SQUARE FOOT
SQ IN	SQUARE INCH
SS	SANITARY SEWER
SSD	SEE STRUCTURAL DRAWINGS
SST	STAINLESS STEEL
STAG	STAGGERED
STC	SOUND TRANSMISSION CLASS
STD	SEE TELECOM DRAWINGS
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SWP	SHEET WATERPROOFING

T

T	TREAD
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TB	TOWEL BAR
TC	TOP OF CONCRETE, TOP OF CURB
TEL	TELEPHONE
THERM	THERMAL
THK	THICK, THICKNESS
THRES	THRESHOLD
THRU	THROUGH
TEMP GL	TEMPERED GLASS
TOC	TOP OF CONCRETE
TOP	TOP OF PLATE
TOS	TOP OF STEEL
TOSUB	TOP OF SUBFLOOR
TOT	TOTAL
TP	TOP OF PAVEMENT
TPD	TOILET PAPER DISPENSER
TPH	TOILET PAPER HOLDER
TS	TUBE STEEL
TSCD	TOILET SEAT COVER DISPENSER
TV	TELEVISION
TW	TOP OF WALL
TWA	TRANSPARENT WALL ASSEMBLY
TYP	TYPICAL

U

UC	UNDER COUNTER
UNEX	UNEXCAVATED
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY

V

VB	VINYL BASE, VALVE BOX
VCO	VACUUM CLEANER OUTLET
VCT	VOLUME CONTROL TELEPHONE
VER	VERIFY
VERT	VERTICAL
VGDF	VERTICAL GRAIN DOUGLAS FIR
VIF	VERIFY IN FIELD
VNR	VENEER
VR	VANDAL RESISTANT

W

W	WEST
W/	WITH
W/O	WITH OUT
W/W	WALL TO WALL
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WF	WIDE FLANGE
WO	WHERE OCCURS
WP	WORKING POINT
WR	WATER RESISTANT, WASTE RECEPTACLE
WSCT	WAINSCOT

X - Y - Z

XFMR	TRANSFORMER

RESPONSIBILITY CODES - SEE SECTION 01010 FOR ADDL DETAIL	
H-H	TRUSTEES FURNISHED - TRUSTEES INSTALLED
H-C	TRUSTEES FURNISHED - CONTRACTOR INSTALLED
C-C	CONTRACTOR FURNISHED - CONTRACTOR INSTALLED
E-C	EXISTING TO BE RELOCATED - CONTRATOR INSTALLED
E-H	EXISTING TO BE RELOCATED - TRUSTEES INSTALLED
F	FUTURE

SEE ALSO "APPLICABLE CODES" THIS SHEET FOR ADDL ABBREVIATIONS

CAL POLY HUMBOLDT

LIBRARY FLAT ROOF REPLACEMENT

1 OFSM PROJECT NUMBER (22-5829)

ARCHITECTURAL SYMBOLS

SITE PLAN SYMBOLS

NEW FINISH CONTOUR, ELEVATION SHOWN ON HIGH SIDE.

EXISTING CONTOUR, ELEVATION SHOWN ON HIGH SIDE.

371.50 (E) — SPOT ELEVATION, EXISTING.

322.00 (N) — SPOT ELEVATION, NEW FINISH GRADE.

LIGHT STANDARD.

CB — CATCH BASIN, SEE ALSO CIVIL DRAWINGS.

AD — AREA DRAIN.

HATCH TYPES

EARTH SHOWN IN SECTION

ROCK FILL, GRAVEL SHOWN IN SECTION

CAST-IN-PLACE CONCRETE PLAN OR SECTION

PRECAST CONCRETE PLAN OR SECTION

BRICK MASONRY PLAN OR SECTION

CONCRETE MASONRY UNITS PLAN OR SECTION

STONE: GRANITE, MARBLE, OR AS NOTED

METAL: TYPE AS NOTED PLAN OR SECTION

WOOD FRAMING, CONTINUOUS SHOWN IN SECTION

WOOD BLOCKING SHOWN IN SECTION

FINISHED WOOD: SECTION OR ELEVATION

PLYWOOD SHOWN IN SECTION

BATT INSULATION: THERMAL OR ACOUSTICAL, UON

RIGID INSULATION: THERMAL, ACOUSTICAL, OR SAFING

PLASTER ON METAL LATH SHOWN IN SECTION

ABBREVIATIONS AS SYMBOLS

∠	ANGLE
@	AT
℄	CENTER LINE
°	DEGREE(S) OF ANGULAR MEASURE
ø	DIAMETER
=	EQUAL
>	GREATER THAN
<	LESS THAN
||	PARALLEL
⊥	PERPENDICULAR
±	PLUS OR MINUS (TOLERANCE)
#	POUND(S)
ℙ	PROPERTY LINE
'	FOOT OR FEET
"	INCH OR INCHES

DRAWING SYMBOLS

201-A — DOOR TAG

SINGLE DOOR

DOUBLE-ACTING DOOR

PAIR DOORS: UNEQUAL SIZES

PAIR DOORS: EQUAL SIZES

CASED OPENING

SLIDING POCKET DOOR

BI-FOLD DOOR

PAIR: BI-FOLD DOORS

11 — WINDOW IDENTIFYING MARK, SEE CORRESPONDING NUMBER ON SCHEDULE

$ $3 — LIGHT SWITCH SINGLE POLE, 3-WAY

LIGHT SWITCH, DIMMABLE

DBL QUAD FLR — ELECTRICAL OUTLET

GFI SWITCHED — ELECTRICAL OUTLET

ELECTRICAL CABINET

VOICE / VOICE OUTLET, WALL MOUNTED

DATA OUTLET, WALL MOUNTED

DATA / VOICE OUTLET, WALL MOUNTED

T — THERMOSTAT

SUPPLY RETURN — WALL REGISTER

FLOOR REGISTER

FLOOR FINISH TRANSITION (ALSO (E) TO (N) FINISH)

<A — ACCESS PANEL, TYPE AS DESIGNATED BY LETTER. 24" X 24" UON.

8'-0" UON — INFRA RED REMOTE, SOUND SYSTEM

TV — DIGITAL TELEVISION WALL OUTLET

HB — HOSE BIBB

NG — NATURAL GAS

A4 — WALL PARTITION TYPE SEE A11.1

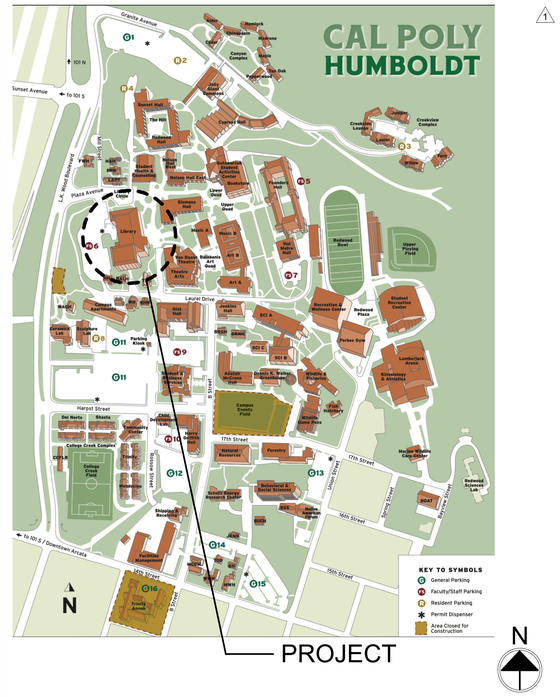
2 — KEYED NOTE

FOR SYMBOLS USED ON REFLECTED CEILING PLANS - SEE REFLECTED CEILING PLAN SHEET

DEFERRED APPROVALS

1. N/A

VICINITY MAP



APPLICABLE CODES

1. CALIFORNIA BUILDING CODE 2019 (CBC)
2. CALIFORNIA ELECTRICAL CODE 2019 (CEC)
3. CALIFORNIA MECHANICAL CODE 2019 (CMC)
4. CALIFORNIA PLUMBING CODE 2019 (CPC)
5. CALIFORNIA FIRE CODE 2019 (CFC)
6. CALIFORNIA ENERGY CODE 2019 (CEC)
7. CALIFORNIA GREEN BUILDING CODE 2019 (CGBC)
8. TITLE 19, CALIFORNIA CODE OF REGULATIONS
9. TITLE 22, CALIFORNIA CODE OF REGULATIONS
10. TITLE 24, CALIFORNIA CODE OF REGULATIONS

1

OCCUPANCY GROUP

A-3	LIBRARY
B	OFFICE
S-2	STORAGE

1

CONSTRUCTION TYPE

TYPE I - B

SCOPE OF WORK

REPLACEMENT OF ALL LOW SLOPE ROOF AREAS WITH NEW SLOPED INSULATION & SINGLE PLY MEMBRANE ROOFING (SINGLE-PLY PVC THERMOPLASTIC WITH FIRE CLASSIFICATION: CLASS A ROOF ASSEMBLY) 1

BUILDING PERMIT APPROVAL

THIS PROJECT HAS DEMONSTRATED CONFORMANCE WITH APPLICABLE CODES AND STANDARDS ESTABLISHED BY STATUTE AND UNIVERSITY POLICY. BASED ON THIS DETERMINATION THESE DOCUMENTS ARE

APPROVED FOR CONSTRUCTION

KASSIDY D. BANDUCCI
Campus Deputy Building Official
California State Polytechnic University, Humboldt

Date: FEBRUARY 14, 2023
Permit No. 2022/23-018, OFS: 22-N-5829-C

Other approvals, as applicable:
[X] OFS APPROVAL
[ ] SEISMIC PEER REVIEW
[ ] DSA ACCESS REVIEW
[ ] MECHANICAL PEER REVIEW

UNIV CLIENT REP

CAL POLY HUMBOLDT
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1 HARPST STREET
ARCATA, CA 95521
TEL: (707) 826-5707
FAX: (707) 826-5703
CONTACT: KASSIDY D. BANDUCCI
DIRECTOR PLANNING, DESIGN & CONSTRUCTION
CAL POLY HUMBOLDT

SUAREZ-KUEHNE ARCHITECTURE
2410 14th Avenue
San Francisco
California 94116
tel 415.242.1400

The California State University
OFFICE OF FIRE SAFETY

CALIFORNIA STATE FIRE MARSHAL APPROVED
PANIC AND LIFE SAFETY ONLY

Approval of this plan does not authorize or approve any omissions or deviation from applicable regulations and standards. Approved plans shall be available on the project site site at all times.

Approved by: Paige McKibbin 02/09/2023

CSU DESIGNATED CAMPUS FIRE MARSHAL - Paige McKibbin

Project

CAL POLY HUMBOLDT
LIBRARY FLAT ROOF REPLACEMENT
Arcata, California

Project Team

Owner: Trustees of the California State University
Arch: Suarez-Kuehne Architecture San Francisco, CA 94116
Struct: Thornton Tomasetti San Francisco, CA 94108
Plumb: Interface Engineering San Francisco, CA 94105

Seals

LICENSED ARCHITECT JOHN S. SUAREZ C-15467 RENEWAL 5-31-23 STATE OF CALIFORNIA

Revisions

1	OFS REVS	JAN 20, 2023
2	100% CD ISSUED	FEB 06, 2023

Sheet Name

PROJECT INFO

Date DECEMBER 13, 2022

Owner #

SKA #

Sheet Number

A0.1

NOTES

ARCHITECTURAL GENERAL NOTES

1. THE FOLLOWING GENERAL NOTES APPLY TO ALL ARCHITECTURAL DRAWINGS.
2. ALL PARTS OF THE WORK, INCLUDING MATERIALS, METHODS, ASSEMBLIES, ETC, MUST COMPLY WITH THE MINIMUM REQUIREMENTS OF THE GOVERNING 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 REGULATION.
3. THE ARCHITECTURAL DRAWINGS ARE A PART OF A LARGER SET OF DRAWINGS WHICH, WHEN COMPLETE, CONSISTS OF ALL DRAWINGS LISTED BY THE INDEX OF DRAWINGS. THE WORK DESCRIBED BY THE DRAWINGS OF ANY ONE DISCIPLINE MAY BE AFFECTED BY THE WORK 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. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW AND COORDINATE THE WORK OF ALL SUB-CONTRACTORS, TRADES, AND/OR SUPPLIERS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BEFORE COMMENCING CONSTRUCTION, AND TO ASSURE THAT ALL PARTIES ARE AWARE OF ALL REQUIREMENTS, REGARDLESS OF WHERE THE REQUIREMENTS OCCUR IN THE CONTRACT DOCUMENTS, WHICH MIGHT AFFECT THE WORK OF THAT PARTY.
4. AS PART OF THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE WORK OF ALL SUB-CONTRACTORS, TRADES, AND/OR SUPPLIERS, THE CONTRACTOR SHALL ENDEAVOR TO IDENTIFY AND NOTIFY THE ARCHITECT OF ANY CONFLICTS BETWEEN THE WORK OF DIFFERENT PARTIES AT THE EARLIEST POSSIBLE DATE SO AS TO ALLOW REASONABLE AND ADEQUATE TIME FOR THE CONFLICT TO BE RESOLVED WITHOUT DELAYING THE WORK. ALL DEVIATIONS FROM THAT WHICH IS REQUIRED BY THE CONTRACT DOCUMENTS MUST BE APPROVED IN ADVANCE BY THE ARCHITECT.
5. THE ARCHITECTURAL DRAWINGS ESTABLISH AND COORDINATE THE FINISHED APPEARANCE AND EXACT LOCATION OF ALL EXPOSED ELEMENTS OF THE WORK OF ALL TRADES, INCLUDING THAT WORK WHICH IS ILLUSTRATED PRIMARILY ON DRAWINGS OF OTHER DISCIPLINES. LOCATIONS SHOWN ON OTHER DRAWINGS ARE SCHEMATIC, UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL DRAWINGS. THE ARCHITECTURAL DRAWINGS TAKE PRECEDENCE FOR THE FINISHED APPEARANCE AND EXACT LOCATION OF ALL PARTS OF THE WORK.

   EXCEPTION: DIMENSIONED LOCATIONS SHOWN ON DRAWINGS OF OTHER DISCIPLINES SHALL GOVERN ONLY WHERE:

   A. SPECIFICALLY AND INDIVIDUALLY INDICATED BY SYMBOL, KEYED NOTE, OR NOTATION ON THE ARCHITECTURAL DRAWINGS.

   B. OCCURRING WITHIN A ROOM OR OTHER IDENTIFIED SPACE FOR WHICH ARCH SHEET OR SCHEDULE NOTES INDICATE THAT DIMENSIONS PROVIDED ELSEWHERE SHALL GOVERN.
6. THE ARCHITECTURAL FLOOR PLANS, REFLECTED CEILING PLANS, SECTIONS, AND ELEVATIONS ILLUSTRATE THE EXACT LOCATION OF MANY, BUT NOT ALL, EXPOSED PARTS OF THE WORK. APPLY THE RULES INDICATED BY THE DRAWINGS "MOUNTING HEIGHTS RULES & LOCATIONS" TO DETERMINE THE EXACT LOCATION OF EACH EXPOSED PART OF THE WORK.
7. REFER TO THE STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR THE DETAILED DESIGN OF STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS, OF WHICH PORTIONS MAY BE SHOWN ON THE ARCHITECTURAL DRAWINGS.
8. ALL PIPE, CONDUIT, AND OTHER PENETRATIONS THROUGH RATED PARTITIONS AND RATED FLOOR/CEILING ASSEMBLIES SHALL BE SEALED AIR-TIGHT WITH THE APPROPRIATE U.L. RATED ASSEMBLY. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.
9. FINISH FLOOR ELEVATIONS ARE TO THE TOP OF CONCRETE FLOOR SLAB, UON. WHERE THE CONCRETE IS DEPRESSED TO ACCOMMODATE MORTAR BEDS, SETTING BEDS, RAISED ACCESS FLOORS, AND OTHER SIMILAR FLOOR ASSEMBLIES, FINISHED FLOOR ELEVATIONS ARE TO TOP OF FINISH FLOOR ASSEMBLY INDICATED. DIMENSIONS TAKEN TO FINISH FLOOR ARE TO TOP OF CONCRETE PLUS ANY APPLIED FINISH.
10. CEILING HEIGHT DIMENSIONS ARE TO FINISHED SURFACES, UNLESS OTHERWISE NOTED.
11. FOR ILLUSTRATION AND DEFINITION OF TYP SYMBOLS USED ON THE ARCHITECTURAL DRAWINGS, SEE THE DRAWING "ARCHITECTURAL SYMBOLS"
12. ADDITIONAL SYMBOLS NOT SHOWN OR DEFINED ON THE DRAWING "ARCHITECTURAL SYMBOLS" MAY OCCUR AND ARE DEFINED ON OTHER ARCH DRAWINGS.
13. GENERALLY, ALL GRID LINES BEGINNING WITH A LETTER DESIGNATION ARE PARALLEL WITH EACH OTHER UNLESS OTHERWISE NOTED. ALL GRID LINES BEGINNING WITH A NUMBER ARE PARALLEL WITH EACH OTHER UNLESS OTHERWISE NOTED. ALL GRID LINES BEGINNING WITH LETTERS ARE PERPENDICULAR TO GRID LINES BEGINNING WITH NUMBERS UNLESS OTHERWISE NOTED.
14. ALTERATION PROJECT SHALL COMPLY WITH ALL ASPECTS OF CALGREEN SECTION 5.408.1 AND 5.408.2 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING.
15. ALTERATION PROJECT SHALL COMPLY WITH ALL ASPECTS OF CALGREEN SECTION 5.504.4 FINISH MATERIAL POLUTION CONTROL.
16. ALTERATION PROJECT SHALL COMPLY WITH ALL ASPECTS OF CALGREEN SECTION 5.504 POLUTION CONTROL.
17. ALTERATION PROJECT SHALL COMPLY WITH ALL ASPECTS OF CALGREEN SECTION 5.508 OUTDOOR AIR QUALITY.

COMPLETE BUILDING ANALYSIS - LIBRARY

1.	Occupancy Classification and Use:	A-3 Occupancy Library
	Secondary Occupancies:	B, S-1
2.	Building Construction Type:	Type I - B
3.	Number of Stories:	Four stories (11 allowed) (note Basement is a "Story", not a "Basement" per CBC 202)
4.	Actual Building Height:	52'-8" (70'-4" at hvac tower)
5.	Building Area in Square Feet:	
	(Story 1) Basement Area:	35,826
	(Story 2) Level 1 Area:	41,673
	(Story 3) Level 2 Area:	45,536
	(Story 4) Level 3 Area:	35,004
	Total Area:	158,039 square feet
6.	Area of Project in Square Feet:	
	0 square feet	(Basement)
	0 square feet	(Level 1)
	0 square feet	(Level 2)
	300 square feet	(Level 3 - RCP)
7.	Separated or Non-Separated Use:	Non-separated use
8.	Allowable Area per CBC:	Unlimited
9.	Area Increase:	(not applicable)
10.	Allowable Height per CBC:	160' and 11 Stories
11.	Height Increase:	(not applicable)
12.	Fire Sprinklers:	Yes
13.	Fire Alarm:	(yes type: manual)
14.	Other Fire Protection:	No
15.	Smoke Control:	No
16.	Occupant Load for Building and Each Floor:	Building: 2,578 occupants
	i. Basement: 589 occupants	(A-3 / B / S-1)
	ii. First Level: 789 occupants	(A-3 / B / S-1)
	iii. Second Level: 714 occupants	(A-3 / B)
	iv. Third Level: 486 occupants	(A-3 / B / S-1)
17.	Year Building Was Constructed:	1961 (1974 major addition)
18.	In a High Fire Severity Zone?:	No
19.	Seismic Joints (location)?:	No
20.	Emergency Responder Radio Coverage?:	(Campus system coverage OK)

21. CBC 1.2.1 - 2.: BSC: Specific scope of appication of the enforcing agency responsible for enforcement, the enforcement agency and the specific authority to adopt and enforce such provisions of this code, unless otherwise stated:
    California State Universities:
    Application - Standards for lighting for parking lots and primary campus walkways at Califonia State Universities.
    Enforcing Agency - State or local agency specified by the applicable provisions of law.
    Authority cited: Government Code Section 14617
    Refrence: Government Code Section 14617

22. All roofing operations shall comply with 2019 CBC Chapter 33 Safeguards During Construction.

1

SHEET INDEX

ARCHITECTURAL

STRUCTURAL

PLUMBING

BUILDING PERMIT APPROVAL
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[ ] DSA ACCESS REVIEW [ ] MECHANICAL PEER REVIEW

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OFFICE OF FIRE SAFETY
CALIFORNIA STATE FIRE MARSHAL APPROVED
PANIC AND LIFE SAFETY ONLY
Approval of this plan does not authorize or approve any omissions or deviation from applicable regulations and standards. Approved plans shall be available on the project site site at all times.
Approved by: Paige McKibbin 02/09/2023
CSU DESIGNATED CAMPUS FIRE MARSHAL - Paige McKibbin

Project

CAL POLY HUMBOLDT
LIBRARY FLAT ROOF REPLACEMENT
Arcata, California

Project Team

Owner: Trustees of the California State University
Arch: Suarez-Kuehne Architecture San Francisco, CA 94116
Struct: Thornton Tomasetti San Francisco, CA 94108
Plumb: Interface Engineering San Francisco, CA 94105

Seals

LICENSED ARCHITECT JOHN S. SUAREZ C-15467 RENEWAL 5-31-23 STATE OF CALIFORNIA

Revisions

1 OFS REVS JAN 20, 2023
2 100% CD ISSUED FEB 06, 2023

Sheet Name
INDEX, CODES, GENERAL NOTES

Date DECEMBER 13, 2022

Owner #

SKA #

Sheet Number
A0.2

ROOM OCCUPANT LOAD SCHEDULE

ROOM NUMBER	ROOM NAME	AREA	OCC CLASS	TABLE 1004.2.1	SF PER OCC	OCCUPANT LOAD
Basement Level						
1	A & CAC OFFICE	127 SF	B	BUSINESS	100	2
2	A & CAC OFFICE	117 SF	B	BUSINESS	100	2
3	HSI-STEM	787 SF	A-3	ASSEMBLY	15	53
3A	A & CAC OFFICE	124 SF	B	BUSINESS	100	2
4	ACADEMIC & CAREER ADVISING CENTER	782 SF	A-3	ASSEMBLY	15	52
4A	OFFICE	127 SF	B	BUSINESS	100	2
4B	OFFICE	137 SF	B	BUSINESS	100	2
4C	OFFICE	138 SF	B	BUSINESS	100	2
4D	CONFERENCE	185 SF	B	ASSEMBLY	15	13
4E	STOR	30 SF	B	ACC STORAGE	300	1
4F	CLST	9 SF	B	BUSINESS	100	1
5	LOBBY	585 SF	B	ASSEMBLY	15	39
6	YOUTH EDUCATIONAL SERVICES (YES)	972 SF	A-3	ASSEMBLY	15	65
6A	OFFICE	134 SF	B	BUSINESS	100	2
6B	OFFICE	134 SF	B	BUSINESS	100	2
6C	STORAGE	269 SF	B	ACC STORAGE	300	1
7	VETERANS ENROLLMENT & TRANSITION SERVICES	931 SF	A-3	ASSEMBLY	15	63
7A	VETERANS ADMINISTRATOR OFFICE	113 SF	B	BUSINESS	100	2
7B	INTERN A STUDENT OFFICE	158 SF	B	BUSINESS	100	2
7C	MECH ROOM	216 SF	B	MECH EQUIP	300	1
8	STUDENT DISABILITY RESOURCE CENTER	603 SF	A-3	ASSEMBLY	15	41
8A	OFFICE	146 SF	B	BUSINESS	100	2
8B	SDRC OFFICES	141 SF	B	BUSINESS	100	2
8C	OFFICE	89 SF	B	BUSINESS	100	1
8D	OFFICE	133 SF	B	BUSINESS	100	2
8E	OFFICE	146 SF	B	BUSINESS	100	2
21	TESTING CENTER SERVICES OFFICES	117 SF	B	BUSINESS	100	2
21A	OFFICE	108 SF	B	BUSINESS	100	2
22	TESTING 9 STATIONS	232 SF	B	ASSEMBLY	NA	9 (fixed stations)
23	TESTING 5 STATIONS	209 SF	B	ASSEMBLY	NA	5 (fixed stations)
24	TESTING / ASSESSMENT MONITORING	94 SF	B	BUSINESS	100	1
24A	TESTING PROCTOR	97 SF	B	BUSINESS	100	1
25	TESTING 4 STATIONS	194 SF	B	ASSEMBLY	NA	4 (fixed stations)
28	ELEV MECH	75 SF	B	MECH EQUIP	300	1
29	TELECOM	135 SF	B	BUSINESS	100	2
30	TESTING 8 STATIONS	276 SF	B	ASSEMBLY	NA	8 (fixed stations)
32	TESTING 10 STATIONS	317 SF	B	ASSEMBLY	NA	10 (fixed stations)
34	TESTING 2 STATIONS	99 SF	B	ASSEMBLY	NA	2 (fixed stations)
35	FLEX OFFICE	112 SF	B	BUSINESS	100	2
36	FLEX OFFICE	117 SF	B	BUSINESS	100	2
37	FLEX OFFICE	118 SF	B	BUSINESS	100	2
38	FLEX OFFICE	120 SF	B	BUSINESS	100	2
39	FLEX OFFICE	117 SF	B	BUSINESS	100	2
40	OFFICE	114 SF	B	BUSINESS	100	2
41	A & CAC OFFICES	118 SF	B	BUSINESS	100	2
42	A & CAC OFFICE	117 SF	B	BUSINESS	100	2
43	MECH	558 SF	B	MECH EQUIP	300	2
43A	MECH	258 SF	B	MECH EQUIP	300	1
43B	MECH	332 SF	B	MECH EQUIP	300	2
43C	MECH	172 SF	B	MECH EQUIP	300	1
43D	MECH	564 SF	B	MECH EQUIP	300	2
43E	MECH	656 SF	B	MECH EQUIP	300	3
43F	MECH	527 SF	B	MECH EQUIP	300	2
44	A & CAC OFFICE	114 SF	B	BUSINESS	100	2
45	CONFERENCE	235 SF	B	ASSEMBLY	15	16
47	A & CAC STORAGE OR OFFICE	120 SF	B	BUSINESS	100	2
48	FLEX OFFICE	118 SF	B	BUSINESS	100	2
50	SHARED WORKROOM KITCHENETTE	235 SF	B	BUSINESS	100	3
51	FLEX OFFICE	117 SF	B	BUSINESS	100	2
53	FLEX OFFICE	240 SF	B	BUSINESS	100	3
55	SHARED WORKSHOP ROOM	540 SF	B	BUSINESS	100	6
56	INTERDEPARTMENTAL	491 SF	B	BUSINESS	100	5
57	OFFICE	149 SF	B	BUSINESS	100	2
58	COMMUNITY BASED LEARNING	171 SF	B	BUSINESS	100	2
58A	KITCHENETTE	92 SF	B	BUSINESS	100	1
58B	A & CAC OFFICE	119 SF	B	BUSINESS	100	2
59	A & CAC OFFICE	115 SF	B	BUSINESS	100	2
61	LIBRARY STORAGE	4329 SF	S-1	ACC STORAGE	300	15
61A	PHOTOGRAPHY STUDIO	511 SF	B	BUSINESS	100	6
61B	LIBRARY SPECIAL COLLECTIONS	91 SF	B	BUSINESS	100	1
61C	LIBRARY SPECIAL COLLECTIONS	1302 SF	S-1	ACC STORAGE	300	5
62	MECH	944 SF	B	MECH EQUIP	300	4
62A	MECH	966 SF	B	MECH EQUIP	300	4
62B	MECH	224 SF	B	MECH EQUIP	300	1
62C	MECH	439 SF	B	MECH EQUIP	300	2
62D	MECH	496 SF	B	MECH EQUIP	300	2
63	LIBRARY OFFICE STORAGE	548 SF	B	ACC STORAGE	300	2
64	ELEV MACHINE ROOM	164 SF	B	MECH EQUIP	300	1
C-0A	CUST	56 SF	B	BUSINESS	100	1
C-0B	CUST	15 SF	B	BUSINESS	100	1
EL-0A	ELEV	57 SF	B	BUSINESS	100	1
H-0A	HALL	774 SF	B	BUSINESS	100	8
H-0B	HALL	497 SF	B	BUSINESS	100	5
H-0C	HALL	386 SF	B	BUSINESS	100	4
H-0D	HALL	970 SF	B	BUSINESS	100	10
H-0E	HALL	609 SF	B	BUSINESS	100	7
H-0F	HALL	231 SF	B	BUSINESS	100	3
H-0G	HALL	308 SF	B	BUSINESS	100	4
RR-M-0	MEN'S	223 SF	B	BUSINESS	100	3
RR-W-0	WOMEN'S	232 SF	B	BUSINESS	100	3
S-0A	CENTRAL STAIR	385 SF	B	BUSINESS	100	4
S-0B	SE STAIR	184 SF	B	BUSINESS	100	2
S-0C	SW STAIR	183 SF	B	BUSINESS	100	2
S-0D	NW STAIR	68 SF	B	BUSINESS	100	1
S-0E	NE STAIR	172 SF	B	BUSINESS	100	2
LEVEL 1						
101	LIBRARY READING - S	12940 SF	A-3	LIBRARY READING	50	259
101A	LIBRARY CAFE	1691 SF	A-3	ASSEMBLY	15	113
102	LIBRARY READING - LOBBY	4350 SF	A-3	LIBRARY READING	50	87
104	BOOK DROP	43 SF	B	BUSINESS	100	1
105E	CUST	136 SF	B	BUSINESS	100	2
106	STOR	84 SF	B	ACC STORAGE	300	1
106B	STOR	149 SF	S-1	ACC STORAGE	300	1
106C	STOR	45 SF	B	ACC STORAGE	300	1
106D	ACT BOOTH	21 SF	B	BUSINESS	100	1
107	BREAKROOM	181 SF	B	ASSEMBLY	15	13
108	LIBRARY ADMIN	192 SF	B	BUSINESS	100	2
108A	OFFICE	198 SF	B	BUSINESS	100	2
109	INTERLIBRARY LOAN	973 SF	B	BUSINESS	100	10
109A	OFFICE	159 SF	B	BUSINESS	100	2
109B	OFFICE	159 SF	B	BUSINESS	100	2
110	OFFICE	869 SF	B	BUSINESS	100	9
110A	PHOTO & BILLING	246 SF	B	BUSINESS	100	3

ROOM OCCUPANT LOAD SCHEDULE

ROOM NUMBER	ROOM NAME	AREA	OCC CLASS	TABLE 1004.2.1	SF PER OCC	OCCUPANT LOAD
110B	OFFICE	104 SF	B	BUSINESS	100	2
110C	STOR	59 SF	B	ACC STORAGE	300	1
111	LIBRARY ACCESS SERVICES	1288 SF	B	BUSINESS	100	13
111 A	RESERVES PROCESSING	215 SF	B	BUSINESS	100	3
111 B	LIBRARY ACQUISITIONS	394 SF	B	BUSINESS	100	4
111 C	OFFICE	137 SF	B	BUSINESS	100	2
111 D	OFFICE	161 SF	B	BUSINESS	100	2
111 E	WORKROOM	330 SF	B	BUSINESS	100	4
111 F	SHIPPING & RECEIVING	297 SF	B	BUSINESS	100	3
111 G	ACQUISITIONS & CATALOGING	1086 SF	B	BUSINESS	100	11
111 H	INFORMATION TECHNOLOGY SERVICES	433 SF	B	BUSINESS	100	5
111 I	LIBRARY SERVER	432 SF	B	BUSINESS	100	5
111 J	STOR	63 SF	B	ACC STORAGE	300	1
111 K	MENDERY	498 SF	B	BUSINESS	100	6
111 L	STOR	34 SF	B	ACC STORAGE	300	1
112	INFO CENTER	233 SF	B	BUSINESS	100	3
112A	OFFICE	108 SF	B	BUSINESS	100	2
113	OFFICE	109 SF	B	BUSINESS	100	2
114	LECTURE	459 SF	B	CLASSROOM	20	23
115	GROUP STUDY	185 SF	B	ASSEMBLY	15	13
116	GROUP STUDY	237 SF	B	ASSEMBLY	15	16
117	GROUP STUDY	268 SF	B	ASSEMBLY	15	18
118	CONFERENCE	341 SF	B	ASSEMBLY	15	23
119	ELEC	60 SF	B	BUSINESS	100	1
120	ITS ROOM	412 SF	B	BUSINESS	100	5
121	COMPUTER LAB	1089 SF	B	EDUC LAB	50	22
122	COMPUTER LAB	2005 SF	B	EDUC LAB	50	41
123	T-COM	99 SF	B	BUSINESS	100	1
EL1-A	ELEV	59 SF	B	BUSINESS	100	1
EL1-B	ELEV	70 SF	B	BUSINESS	100	1
H-1A	ELEV HALL	944 SF	B	BUSINESS	100	10
H-1B	HALL	1143 SF	B	BUSINESS	100	12
RR-M-1	MEN	317 SF	B	BUSINESS	100	4
RR-W-1	WOMEN	351 SF	B	BUSINESS	100	4
S-1A	CENTRAL STAIR	388 SF	B	BUSINESS	100	4
S-1B	SE STAIR	184 SF	B	BUSINESS	100	2
S-1C	SW STAIR	183 SF	B	BUSINESS	100	2
S-1D	NW STAIR	190 SF	B	BUSINESS	100	2
S-1E	NE STAIR	330 SF	B	BUSINESS	100	4
T-1A	TELE	11 SF	B	BUSINESS	100	1
Level 2						
201	LIBRARY READING - N	19372 SF	A-3	LIBRARY READING	50	388
201	LIBRARY STACK - S	17247 SF	A-3	LIBRARY STACK	100	173
202A	ELEC	60 SF	B	BUSINESS	100	1
203	PERIODICALS DEPARTMENT	620 SF	B	BUSINESS	100	7
204	GONG ROOM	116 SF	B	BUSINESS	100	2
205	SILENT STUDY ROOM	406 SF	B	ASSEMBLY	15	28
205A	MECH	23 SF	B	MECH EQUIP	300	1
205B	CUST	96 SF	B	BUSINESS	100	1
206	OFFICE	239 SF	B	BUSINESS	100	3
207	BREAKROOM	232 SF	B	ASSEMBLY	15	16
208	MATH LAB	472 SF	B	EDUC LAB	50	10
209	FISHBOWL	962 SF	B	CLASSROOM	20	48
223	T-COM	99 SF	B	BUSINESS	100	1
C2-A	CUST	45 SF	B	BUSINESS	100	1
EL-2A	ELEV	59 SF	B	BUSINESS	100	1
EL-2B	ELEV	61 SF	B	BUSINESS	100	1
H-2A	ELEV HALL	809 SF	B	BUSINESS	100	9
H-2B	HALL	86 SF	B	BUSINESS	100	1
RR-M-2	MEN'S	220 SF	B	BUSINESS	100	3
RR-W-2	WOMEN'S	239 SF	B	BUSINESS	100	3
S-2A	CENTRAL STAIR	392 SF	B	BUSINESS	100	4
S-2B	SE STAIR	184 SF	B	BUSINESS	100	2
S-2C	SW STAIR	187 SF	B	BUSINESS	100	2
S-2D	NW STAIR	195 SF	B	BUSINESS	100	2
S-2E	NE STAIR	337 SF	B	BUSINESS	100	4
T-2A	TELE	10 SF	B	BUSINESS	100	1
Level 3						
301A	STOR	195 SF	S-1	ACC STORAGE	300	1
301B	STOR	186 SF	S-1	ACC STORAGE	300	1
301C	STOR	140 SF	S-1	ACC STORAGE	300	1
301D	STOR	183 SF	S-1	ACC STORAGE	300	1
301E	STOR	138 SF	S-1	ACC STORAGE	300	1
302	LIBRARY STACK - S	14962 SF	A-3	LIBRARY STACK	100	150
302A	ELEC	58 SF	B	BUSINESS	100	1
304	STOR	208 SF	S-1	ACC STORAGE	300	1
305	STOR	197 SF	S-1	ACC STORAGE	300	1
306	SCHOLAR PROJECTS	91 SF	B	BUSINESS	100	1
307	SPECIAL COLLECTIONS	345 SF	B	BUSINESS	100	4
308	HUMBOLDT ROOM	1166 SF	A-3	LIBRARY READING	50	24
309	GOVMNT ROOM	198 SF	B	BUSINESS	100	2
310	OFFICE	264 SF	B	BUSINESS	100	3
311	OFFICE	245 SF	B	BUSINESS	100	3
312	OFFICE	241 SF	B	BUSINESS	100	3
313	OFFICE	226 SF	B	BUSINESS	100	3
314	OFFICE	419 SF	B	BUSINESS	100	3
315	MOODLE SUPPORT	314 SF	B	BUSINESS	100	4
315A	OFFICE	149 SF	B	BUSINESS	100	2
316	OFFICE	629 SF	B	BUSINESS	100	7
317	CLASSROOM	834 SF	B	CLASSROOM	20	42
323	T-COM	96 SF	B	BUSINESS	100	1
C-3A	CUST	467 SF	B	BUSINESS	100	1
C-3B	CUST	24 SF	B	BUSINESS	100	1
EL-3A	ELEV	62 SF	B	BUSINESS	100	1
EL-3B	ELEV	61 SF	B	BUSINESS	100	1
H-3A	ELEV HALL	804 SF	B	BUSINESS	100	9
H-3B	HALL	141 SF	B	BUSINESS	100	2
H-3C	HALL	178 SF	B	BUSINESS	100	2
RR-M-3	MEN	218 SF	B	BUSINESS	100	3
RR-W-3	WOMEN	240 SF	B	BUSINESS	100	3
S-3A	CENTRAL STAIR	385 SF	B	BUSINESS	100	4
S-3B	SE STAIR	140 SF	B	BUSINESS	100	2
S-3C	SW STAIR	140 SF	B	BUSINESS	100	2
S-3D	NW STAIR	196 SF	B	BUSINESS	100	2
S-3E	NE STAIR	340 SF	B	BUSINESS	100	4
T-3A	TELE	11 SF	B	BUSINESS	100	1
T-3B	TELE	23 SF	B	BUSINESS	100	1

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APPROVED FOR CONSTRUCTION

KASSIDY D. BANDUCCI
Campus Deputy Building Official
California State Polytechnic University, Humboldt

Date: FEBRUARY 14, 2023
Permit No. 2022/23-018, OFS: 22-N-5829-C

Other approvals, as applicable:
☒ OFS APPROVAL ☐ SEISMIC PEER REVIEW
☐ DSA ACCESS REVIEW ☐ MECHANICAL PEER REVIEW

SUAREZ-KUEHNE ARCHITECTURE
2410 14th Avenue
San Francisco
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tel 415.242.1400

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CSU DESIGNATED CAMPUS FIRE MARSHAL - Paige McKibbin

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LIBRARY FLAT ROOF REPLACEMENT
Arcata, California

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Sheet Name

OCCUPANT LOAD TABLE

Date DECEMBER 13, 2022

Owner #

SKA #

Sheet Number A0.3

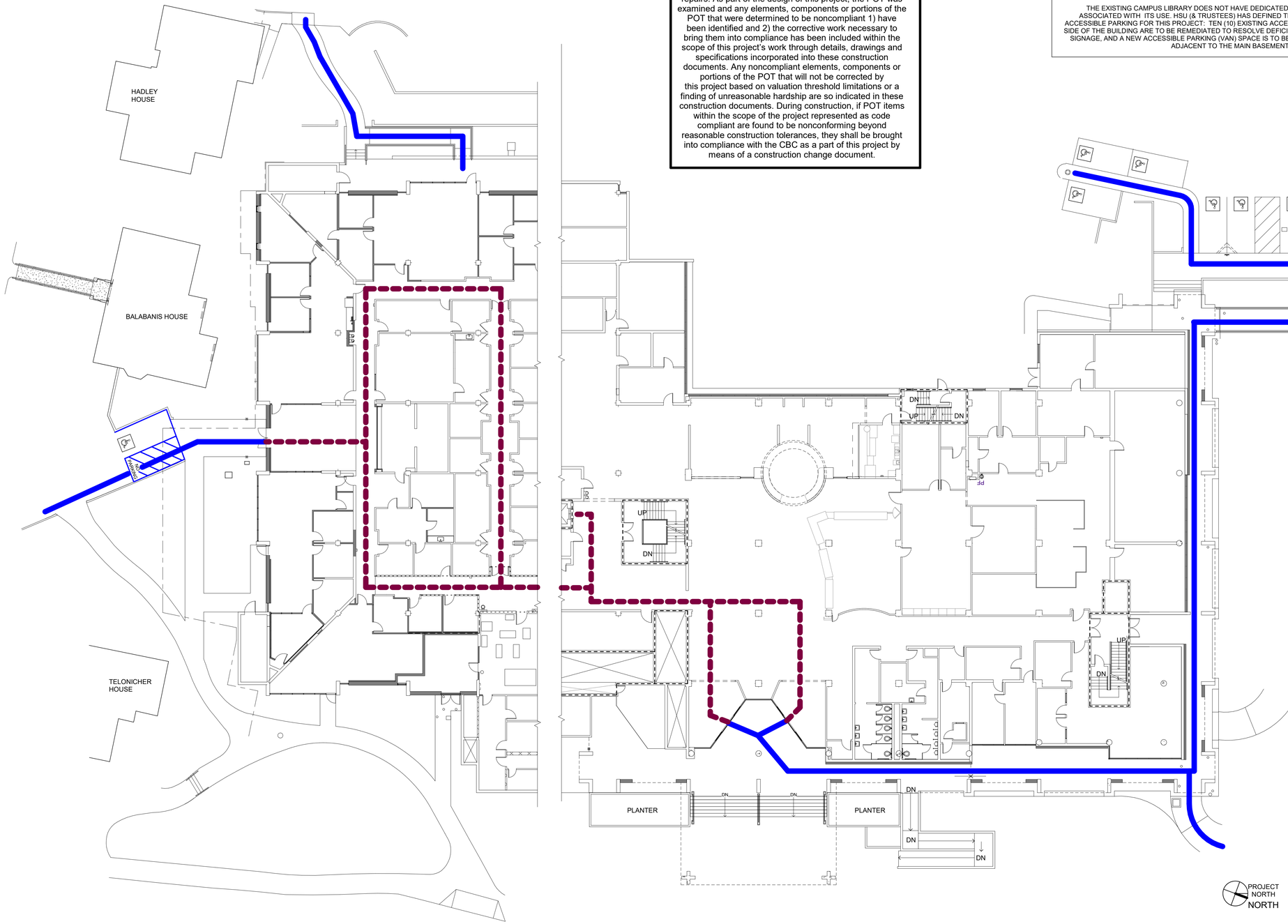
Design Professional in General Responsible Charge Statement: The POT identified in these construction documents is compliant with the current applicable California Building Code accessibility provisions for path of travel requirements for alterations, additions and structural repairs. As part of the design of this project, the POT was examined and any elements, components or portions of the POT that were determined to be noncompliant 1) have been identified and 2) the corrective work necessary to bring them into compliance has been included within the scope of this project's work through details, drawings and specifications incorporated into these construction documents. Any noncompliant elements, components or portions of the POT that will not be corrected by this project based on valuation threshold limitations or a finding of unreasonable hardship are so indicated in these construction documents. During construction, if POT items within the scope of the project represented as code compliant are found to be nonconforming beyond reasonable construction tolerances, they shall be brought into compliance with the CBC as a part of this project by means of a construction change document.

ACCESSIBLE PARKING UPGRADES

THE HUMBOLDT STATE UNIVERSITY (HSU) OFFICE OF PARKING & COMMUTER SERVICES MANAGES ALL CAMPUS PARKING SPACES, AND THE ALLOCATION OF ACCESSIBLE PARKING RESOURCES ON A CAMPUS WIDE BASIS. IN ADDITION, THE HSU STUDENT DISABILITY RESOURCE CENTER OFFERS ON-CAMPUS TRANSPORTATION SERVICES FOR INDIVIDUALS EXPERIENCING MOBILITY LIMITATIONS.

THE LIBRARY SEISMIC RENOVATIONS PROJECT SCOPE INCLUDES PRIMARILY SEISMIC RETROFITS THROUGHOUT THE BUILDING, AND THE ADDITION OF APPROXIMATELY 5,756 SF AT THE BASEMENT LEVEL.

THE EXISTING CAMPUS LIBRARY DOES NOT HAVE DEDICATED GENERAL PARKING SPECIFICALLY ASSOCIATED WITH ITS USE. HSU (& TRUSTEES) HAS DEFINED THE FOLLOWING SCOPE RELATED TO ACCESSIBLE PARKING FOR THIS PROJECT: TEN (10) EXISTING ACCESSIBLE PARKING STALLS ON THE NORTH SIDE OF THE BUILDING ARE TO BE REMEDIATED TO RESOLVE DEFICIENCIES IN CROSS SLOPE, STRIPING, AND SIGNAGE, AND A NEW ACCESSIBLE PARKING (VAN) SPACE IS TO BE ADDED AT THE SOUTH SIDE PARKING, ADJACENT TO THE MAIN BASEMENT ENTRY.



1 LEVEL BASEMENT - PROPOSED SITE PLAN
1/16" = 1'-0"

7 LEVEL 1 - EXISTING SITE PLAN
1/16" = 1'-0"

SUAREZ-KUEHNE ARCHITECTURE
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California 94116
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Sheet Name

SITE PLAN

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Date DECEMBER 13, 2022
Owner #
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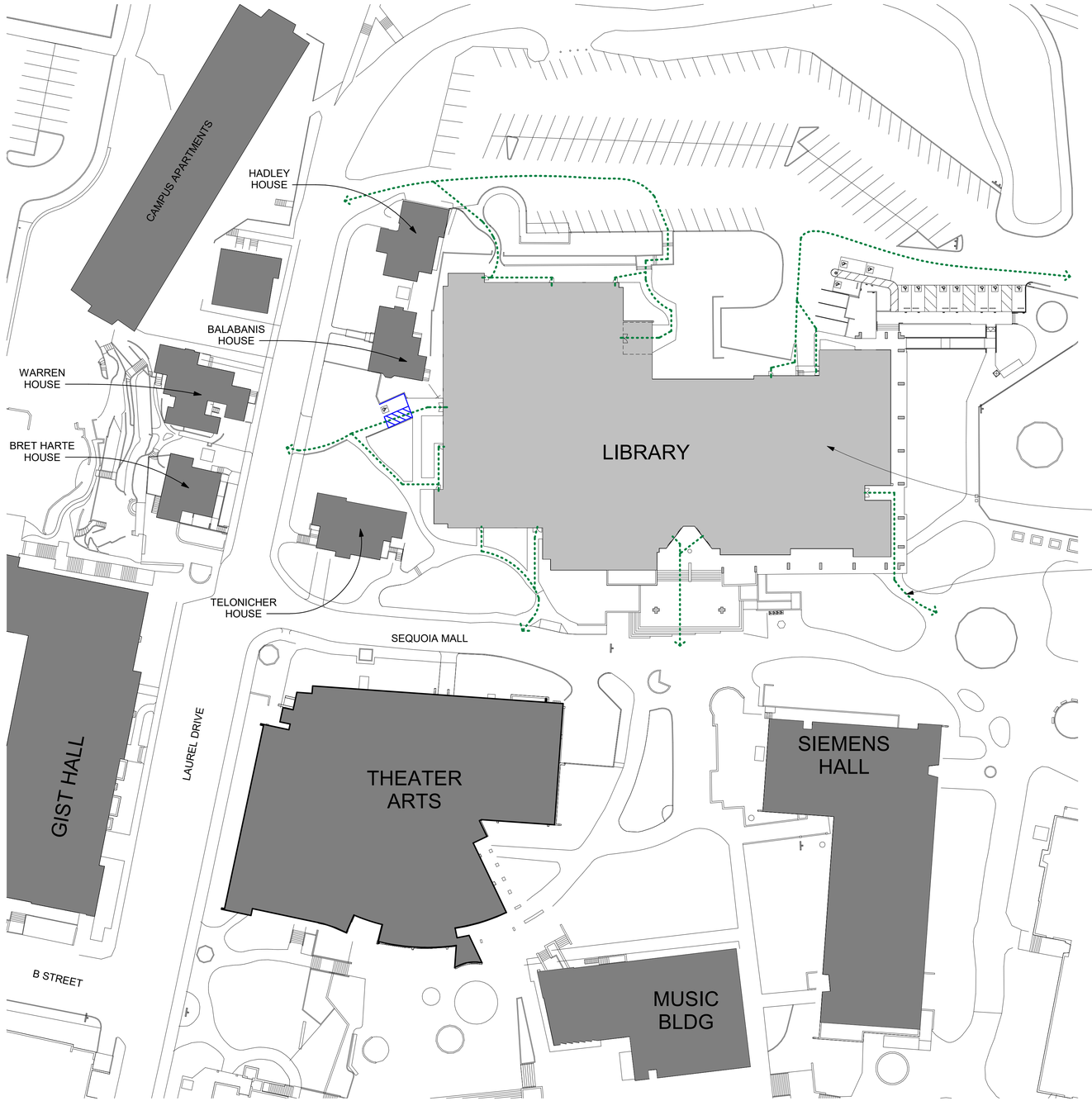
Sheet Number A0.4



1 PARTIAL CAMPUS SITE PLAN
1" = 40'-0"

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Sheet Name

PARTIAL CAMPUS SITE PLAN

Date DECEMBER 13, 2022

Owner #

SKA #

Sheet Number A0.6

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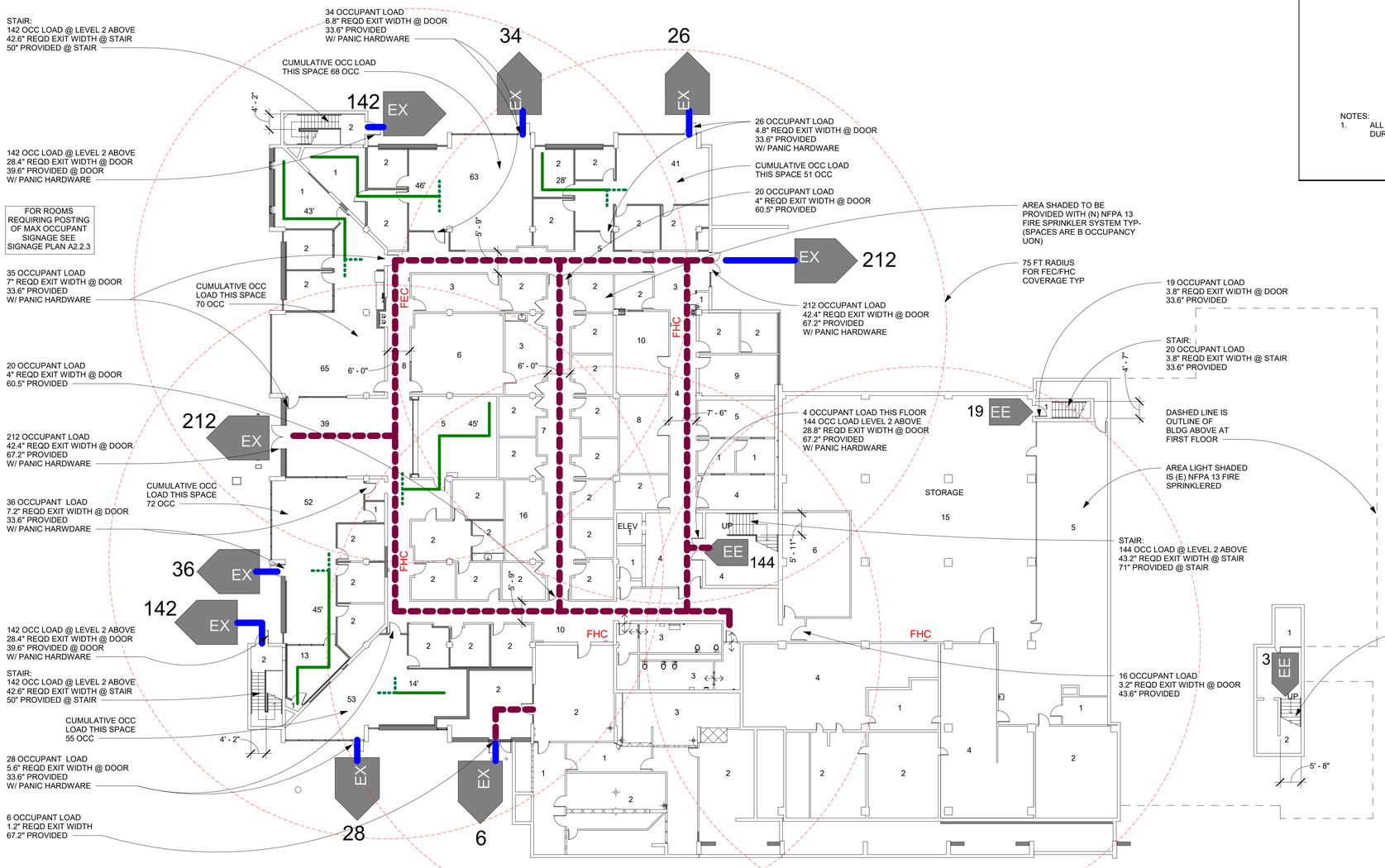
EGRESS LEGEND

- EGRESS PATH OF TRAVEL
- EXTERIOR PATH OF TRAVEL
- 26' COMMON PATH OF TRAVEL
- EX = EXTERIOR EXIT
  EE = EXIT ENCLOSURE
  EP = EXIT PASSAGEWAY
- FEC FIRE EXTINGUISHER CABINET
- FHC FIRE HOSE CABINET (W/ EXTINGUISHER)
- 12 ROOM OR SPACE OCC LOAD
- 68 OCC LOAD @ INT EGRESS COMPONENT (I.E. DOOR)
- 103 OCC LOAD @ EXIT DISCHARGE

NOTES:
1. ALL EXISTING EXITS SHALL REMAIN ACCESSIBLE DURING CONSTRUCTION



FEC/FHC DISTRIBUTION PER CBC 906.3 (1 PER 11,250 SF):
BASEMENT AREA: 35,826 SF
REQD # OF FEC/FHC: 4 FEC/FHC
PROVIDED: 5 FEC/FHC

TOTAL FLOOR OCCUPANT LOAD 589 OCCUPANTS

② LEVEL BASEMENT - EGRESS PLAN PROPOSED
1/16" = 1'-0"

BUILDING PERMIT APPROVAL
THIS PROJECT HAS DEMONSTRATED CONFORMANCE WITH APPLICABLE CODES AND STANDARDS ESTABLISHED BY STATUTE AND UNIVERSITY POLICY. BASED ON THIS DETERMINATION THESE DOCUMENTS ARE
APPROVED FOR CONSTRUCTION
KASSIDY D. BANDUCCI
Campus Deputy Building Official
California State Polytechnic University, Humboldt
Date: FEBRUARY 14, 2023
Permit No. 2022/23-018, OFS. 22-N-5829-C
Other approvals, as applicable:
☒ OFS APPROVAL ☐ SEISMIC PEER REVIEW
☐ DSA ACCESS REVIEW ☐ MECHANICAL PEER REVIEW

PROJECT NORTH
NORTH

SUAREZ•KUEHNE ARCHITECTURE
2410 14th Avenue
San Francisco
California 94116
tel 415.242.1400

The California State University
OFFICE OF FIRE SAFETY
CALIFORNIA STATE FIRE MARSHAL APPROVED
PANIC AND LIFE SAFETY ONLY
Approval of this plan does not authorize or approve any omissions or deviation from applicable regulations and standards. Approved plans shall be available on the project site site at all times.
Approved by: Paige McKibbin 02/09/2023
CSU DESIGNATED CAMPUS FIRE MARSHAL - Paige McKibbin

Project
CAL POLY HUMBOLDT
LIBRARY FLAT ROOF REPLACEMENT
Arcata, California

Project Team
Owner: Trustees of the California State University
Arch: Suarez-Kuehne Architecture San Francisco, CA 94116
Struct: Thornton Tomasetti San Francisco, CA 94108
Plumb: Interface Engineering San Francisco, CA 94105

Seals
LICENSED ARCHITECT JOHN S. SUAREZ C-15467 RENEWAL 5-31-25 STATE OF CALIFORNIA

Revisions
1 OFS REVS JAN 20, 2023
2 100% CD ISSUED FEB 06, 2023

Sheet Name
EGRESS DIAGRAMS

Date DECEMBER 13, 2022

Owner #

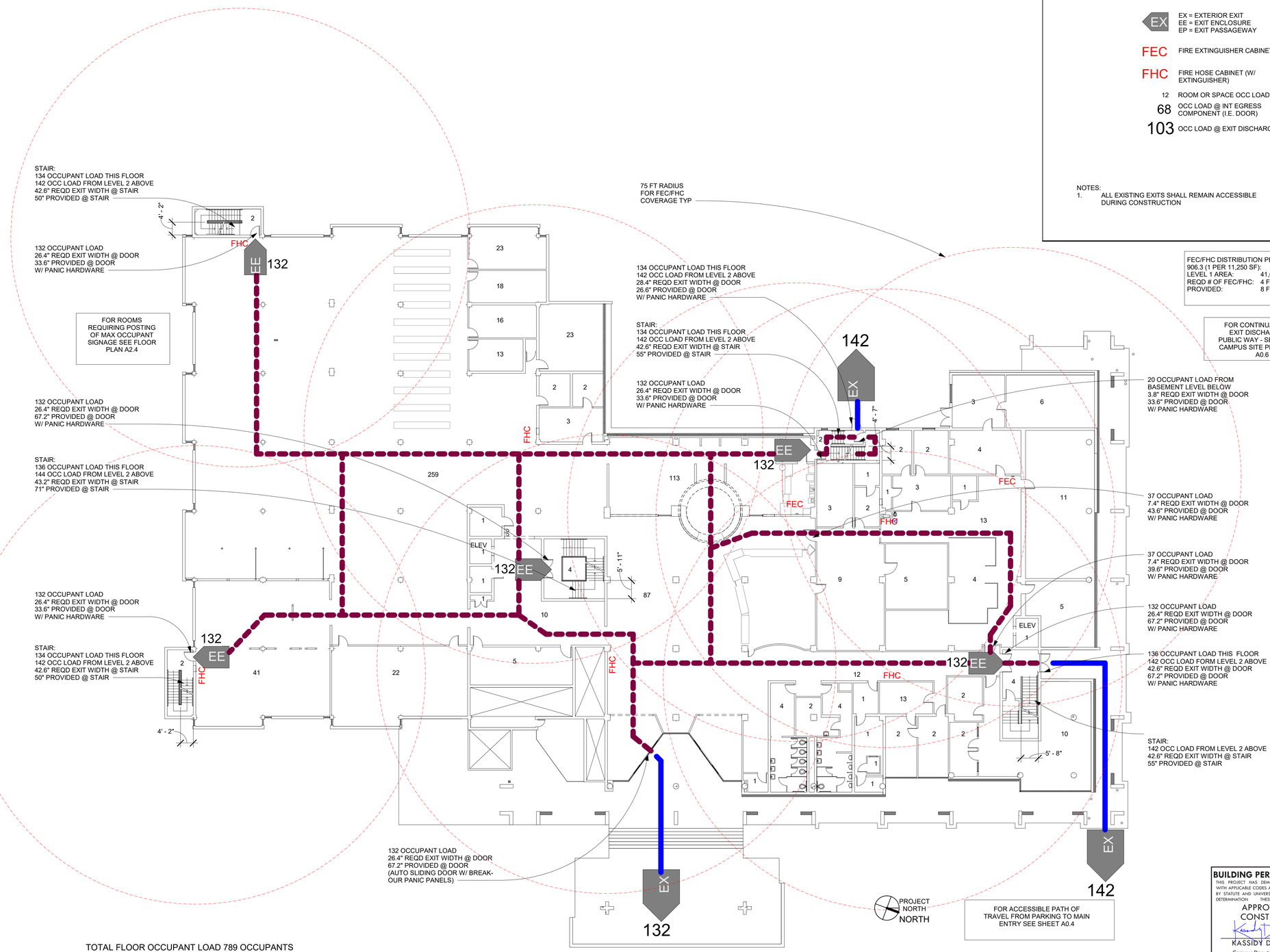
SKA #

Sheet Number
A2.1

EGRESS LEGEND

- EGRESS PATH OF TRAVEL
- EXTERIOR PATH OF TRAVEL
- 26' COMMON PATH OF TRAVEL
- EX = EXTERIOR EXIT
  EE = EXIT ENCLOSURE
  EP = EXIT PASSAGEWAY
- FEC FIRE EXTINGUISHER CABINET
- FHC FIRE HOSE CABINET (W/ EXTINGUISHER)
- 12 ROOM OR SPACE OCC LOAD
- 68 OCC LOAD @ INT EGRESS COMPONENT (I.E. DOOR)
- 103 OCC LOAD @ EXIT DISCHARGE

NOTES:
1. ALL EXISTING EXITS SHALL REMAIN ACCESSIBLE DURING CONSTRUCTION



TOTAL FLOOR OCCUPANT LOAD 789 OCCUPANTS

1 LEVEL 1 - EGRESS PLAN PROPOSED
1/16" = 1'-0"

SUAREZ-KUEHNE ARCHITECTURE
2410 14th Avenue
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California 94116
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Approved by: Paige McKibbin 02/09/2023

CSU DESIGNATED CAMPUS FIRE MARSHAL - Paige McKibbin

Project

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Seals

LICENSED ARCHITECT JOHN S. SUAREZ C-15467 RENEWAL 5-31-25 STATE OF CALIFORNIA

Revisions

1	OFS REVS	JAN 20, 2023
2	100% CD ISSUED	FEB 06, 2023

Sheet Name

EGRESS DIAGRAMS

Date DECEMBER 13, 2022

Owner #

SKA #

Sheet Number A2.2

BUILDING PERMIT APPROVAL
THIS PROJECT HAS DEMONSTRATED CONFORMANCE WITH APPLICABLE CODES AND STANDARDS ESTABLISHED BY STATUTE AND UNIVERSITY POLICY. BASED ON THIS DETERMINATION THESE DOCUMENTS ARE
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Campus Deputy Building Official
California State Polytechnic University, Humboldt
Date: FEBRUARY 14, 2023
Permit No. 2022/23-018, OFS- 22-N-5829-C
Other approvals, as applicable:
☒ OFS APPROVAL ☐ SEISMIC PEER REVIEW
☐ DSA ACCESS REVIEW ☐ MECHANICAL PEER REVIEW

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- 26' COMMON PATH OF TRAVEL
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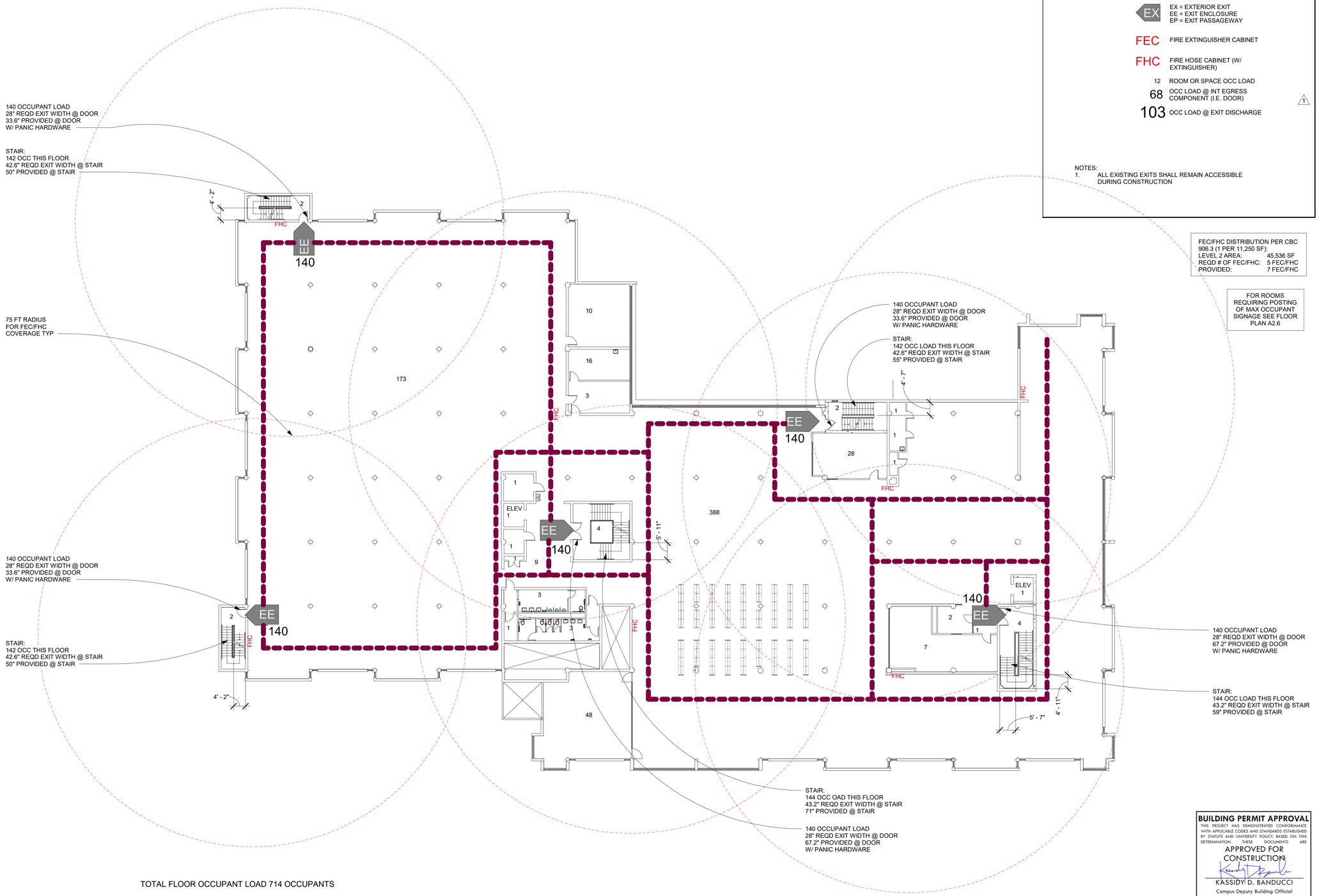
- 12 ROOM OR SPACE OCC LOAD
- 68 OCC LOAD @ INT EGRESS COMPONENT (I.E. DOOR)
- 103 OCC LOAD @ EXIT DISCHARGE

NOTES:
1. ALL EXISTING EXITS SHALL REMAIN ACCESSIBLE DURING CONSTRUCTION

FEC/FHC DISTRIBUTION PER CBC 906.3 (1 PER 11,250 SF):
LEVEL 2 AREA: 45,536 SF
REQD # OF FEC/FHC: 5 FEC/FHC
PROVIDED: 7 FEC/FHC

FOR ROOMS REQUIRING POSTING OF MAX OCCUPANT SIGNAGE SEE FLOOR PLAN A2.6



TOTAL FLOOR OCCUPANT LOAD 714 OCCUPANTS

② LEVEL 2 - EGRESS PLAN PROPOSED
1/16" = 1'-0"

SUAREZ•KUEHNE ARCHITECTURE
2410 14th Avenue
San Francisco
California 94116
tel 415.242.1400

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Approved by: Paige McKibbin 02/09/2023

CSU DESIGNATED CAMPUS FIRE MARSHAL - Paige McKibbin

Project

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Arcata, California

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Plumb: Interface Engineering San Francisco, CA 94105

Seals

LICENSED ARCHITECT JOHN S. SUAREZ C-15467 PROFESSIONAL 5-31-23 STATE OF CALIFORNIA

Revisions

1	OFS REVS	JAN 20, 2023
2	100% CD ISSUED	FEB 06, 2023

Sheet Name

EGRESS DIAGRAMS

Date: DECEMBER 13, 2022

Owner #

SKA #

Sheet Number
A2.3

BUILDING PERMIT APPROVAL
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☐ DSA ACCESS REVIEW ☐ MECHANICAL PEER REVIEW

EGRESS LEGEND

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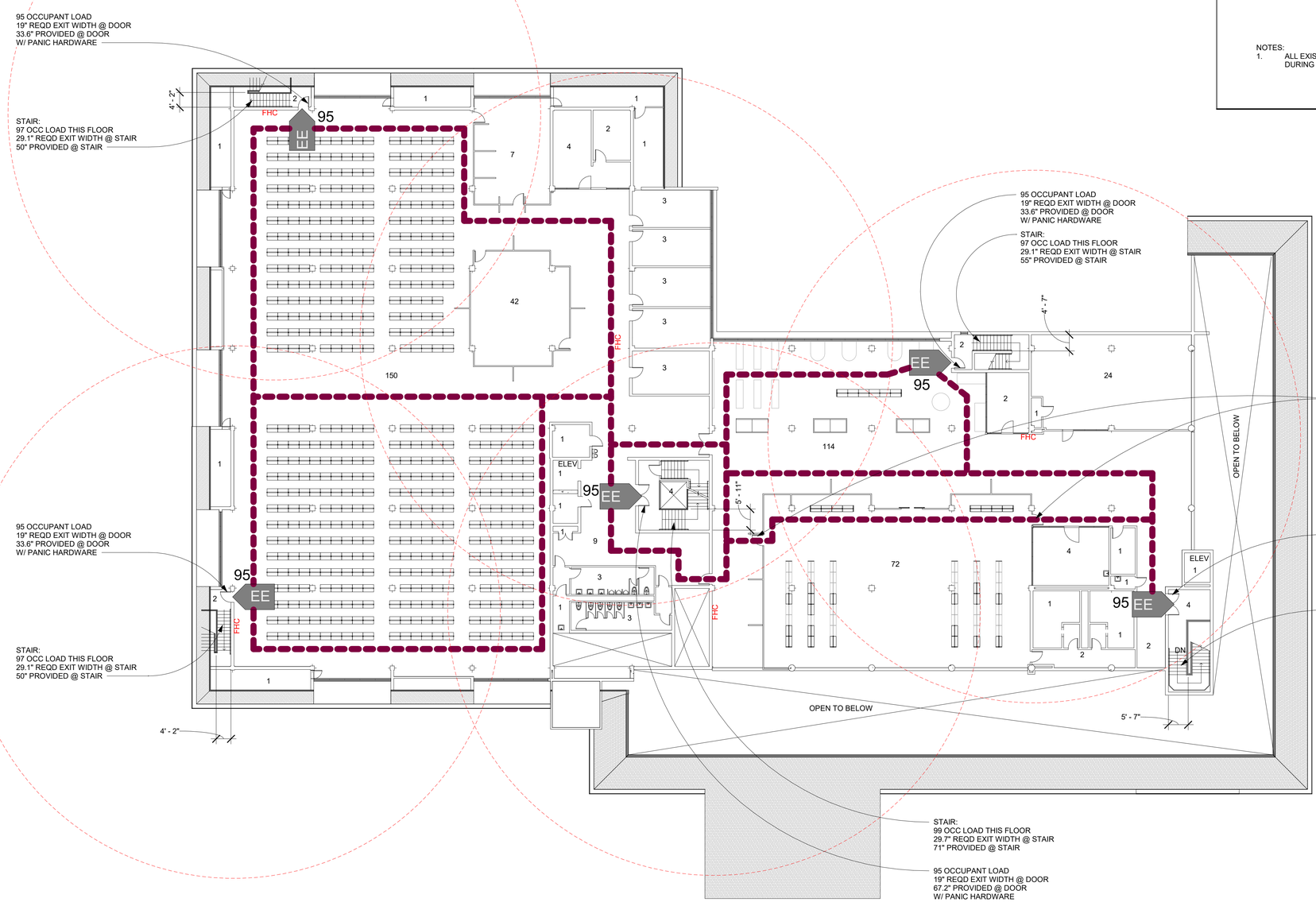
NOTES:
1. ALL EXISTING EXITS SHALL REMAIN ACCESSIBLE DURING CONSTRUCTION

FEC/FHC DISTRIBUTION PER CBC 906.3 (1 PER 11,250 SF):
LEVEL 3 AREA: 35,004 SF
REQD # OF FEC/FHC: 4 FEC/FHC
PROVIDED: 5 FEC/FHC

FOR ROOMS REQUIRING POSTING OF MAX OCCUPANT SIGNAGE SEE FLOOR PLAN A2.8



TOTAL FLOOR OCCUPANT LOAD 486 OCCUPANTS

1 LEVEL 3 - EGRESS PLAN PROPOSED
1/16" = 1'-0"

SUAREZ-KUEHNE ARCHITECTURE
2410 14th Avenue
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Approved by: Paige McKibbin 02/09/2023

CSU DESIGNATED CAMPUS FIRE MARSHAL - Paige McKibbin

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Seals

LICENSED ARCHITECT JOHN S. SUAREZ C-15467 RENEWAL 5-31-2025 STATE OF CALIFORNIA

Revisions

1	OFS REVS	JAN 20, 2023
2	100% CD ISSUED	FEB 06, 2023

Sheet Name

EGRESS DIAGRAMS

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☐ DSA ACCESS REVIEW ☐ MECHANICAL PEER REVIEW

Date DECEMBER 13, 2022
Owner #
SKA #
Sheet Number A2.4

AIA California

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2020, Includes August 2019 Supplement)

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, building 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), including neighborhood electric vehicles (NEV), partial zero emission vehicle (PZEV), advanced technology PZEV (AT ZEV) or CNG fueled (original equipment manufacturer only) regulated under Health and Safety Code section 43800 and CCR, Title 13, Sections 1961 and 1962.
2. High-efficiency vehicles, regulated by U.S. EPA, bearing High-Occupancy Vehicle (HOV) car pool lane stickers issued by the Department of Motor Vehicles.

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 mototrtruck 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.

5.106.5.2 DESIGNATED PARKING FOR CLEAN AIR VEHICLES. In new projects or additions or alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as follows:

TABLE 5.106.5.2 - PARKING

TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES
0-9	0
10-25	1
25-50	3
51-75	6
76-100	8
101-150	11
151-200	16
201 AND OVER	AT LEAST 8% OF TOTAL

5.106.5.2.1 - Parking stall marking. Paint, in the paint used for stall striping, the following characters such that the lower edge of the last word aligns with the end of the stall striping and is visible beneath a parked vehicle: CLEAN AIR / VAN POOL / EV

Note: Vehicles bearing Clean Air Vehicle stickers from expired HOV lane programs may be considered eligible for designated parking spaces.

5.106.5.3 Electric vehicle (EV) charging. [N] Construction shall comply with Section 5.106.5.3.1 or Section 5.106.5.3.2 to facilitate future installation of electric vehicle supply equipment (EVSE). When EVSE(s) is/are installed, it shall be in accordance with the *California Building Code*, the *California Electrical Code* and as follows:

5.106.5.3.1 Single charging space requirements. [N] When only a single charging space is required per Table 5.106.5.3.3, a raceway is required to be installed at the time of construction and shall be installed in accordance with the *California Electrical Code*. Construction plans and specifications shall include, but are not limited to, the following:

1. The type and location of the EVSE.
2. A listed raceway capable of accommodating a 208/240 -volt dedicated branch circuit.
3. The raceway shall not be less than trade size 1".
4. The raceway shall originate at a service panel or a subpanel serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and listed suitable cabinet, box, enclosure or equivalent.
5. The service panel or subpanel shall have sufficient capacity to accommodate a minimum 40-ampere dedicated branch circuit for the future installation of the EVSE.

5.106.5.3.2 Multiple charging space requirements. [N] When multiple charging spaces are required per Table 5.106.5.3.3 raceway(s) is/are required to be installed at the time of construction and shall be installed in accordance with the *California Electrical Code*. Construction plans and specifications shall include, but are not limited to, the following:

1. The type and location of the EVSE.
2. The raceway(s) 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 charging equipment and into listed suitable cabinet(s), box(es), enclosure(s) or equivalent.
3. Plan design shall be based upon 40-ampere minimum branch circuits.
4. Electrical calculations shall substantiate the design of the electrical system, to include the rating of equipment and any on-site distribution transformers and have sufficient capacity to simultaneously charge all required EVs at its full rated amperage.
5. The service panel or subpanel(s) shall have sufficient capacity to accommodate the required number of dedicated branch circuit(s) for the future installation of the EVSE.

5.106.5.3.3 EV charging space calculations. [N] Table 5.106.5.3.3 shall be used to determine if single or multiple charging space requirements apply for the future installation of EVSE.

Exceptions: On a case-by-case basis where the local enforcing agency has determined EV charging and infrastructure is not feasible based upon one or more of the following conditions:

1. Where there is insufficient electrical supply.
2. 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.

TABLE 5.106.5.3.3

TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES
0-9	0
10-25	1
26-50	2
51-75	4
76-100	5
101-150	7
151-200	10
201 AND OVER	6% of total[1]

1. Calculation for spaces shall be rounded up to the nearest whole number.

5.106.5.3.4 [N] Identification. The service panel or subpanel(s) circuit directory shall identify the reserved overcurrent protective device space(s) for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE".

5.106.5.3.5 [N] Future charging spaces qualify as designated parking as described in Section 5.106.5.2 Designated parking for clean air vehicles.

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 Section 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.

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.

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 3					
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 4	N/A	U0	U0	U0	U0
For all other outdoor lighting,including decorative luminaires	N/A	U1	U2	U3	UR
MAXIMUM ALLOWABLE GLARE RATING 5 (G)					
Luminaire greater than 2 MH from property line	N/A	G1	G2	G3	G4
Luminaire front hemisphere is 1-2 MH from property line	N/A	G0	G1	G1	G2
Luminaire front hemisphere is 0.5-1 MH from property line	N/A	G0	G0	G1	G1
Luminaire back hemisphere is less than 0.5 MH from property line	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. If the nearest property line is less than or equal to two mounting heights from the back hemisphere of the luminaire distribution, the applicable reduced Backlight rating shall be met.

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

5. If the nearest property line is less than or equal to two mounting heights from the front hemisphere of the luminaire distribution, the applicable reduced Glare rating shall be met.

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: The surface parking area covered by solar photovoltaic shade structures, or shade structures, with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not included in the total area calculations.

5.106.12.2 Landscape areas. Shade trees 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: Walks, hardscape areas covered by solar photovoltaic shade structures, and hardscape areas covered by shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, 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. "Graywater" 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 puroses, 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. A meter installed subordinate to a site meter. Usually used to measure water intended for one purpose, such as landscape irrigation. For the purposes of CALGreen, a dedicated meter may be considered a submeter.

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).

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.

BUILDING PERMIT APPROVAL
THIS PROJECT HAS DEMONSTRATED CONFORMANCE WITH APPLICABLE CODES AND STANDARDS BDS ESTABLISHED BY STATUTE AND UNIVERSITY POLICY. BASED ON THIS DETERMINATION THESE DOCUMENTS ARE
APPROVED FOR CONSTRUCTION
KASSIDY D. BANDUCCI
Campus Deputy Building Official
California State Polytechnic University, Humboldt
Date: FEBRUARY 14, 2023
Permit No. 2022/23-018, OFS: 22-N-5829-C
Other approvals, if applicable:
[x] OFS APPROVAL [ ] SEISMIC PEER REVIEW
[ ] DSA ACCESS REVIEW [ ] MECHANICAL PEER REVIEW

SUAREZ-KUEHNE ARCHITECTURE
2410 14th Avenue
San Francisco
California 94116
tel 415.242.1400

CSU The California State University
OFFICE OF THE STATE ARCHITECT

CALIFORNIA STATE FIRE MARSHAL APPROVED
PANIC AND LIFE SAFETY ONLY
Approval of this plan does not authorize or approve any omissions or deviation from applicable regulations and standards. Approved plans shall be available on the project site sit at all times.
Approved by: Paige McKibbin 02/09/2023
CSU DESIGNATED CAMPUS FIRE MARSHAL - Paige McKibbin

Project
CAL POLY HUMBOLDT
LIBRARY FLAT ROOF REPLACEMENT
Arcata, California

Project Team
Owner: Trustees of the California State University
Arch: Suarez-Kuehne Architecture San Francisco, CA 94116
Struct: Thornton Tomasetti San Francisco, CA 94108
Plumb: Interface Engineering San Francisco, CA 94105

Seals
LICENSED ARCHITECT JOHN S. SUAREZ C-15467 RENEWAL 5-31-25 STATE OF CALIFORNIA

Revisions
1 OFS REVS JAN 20, 2023
2 100% CD ISSUED FEB 06, 2023

Sheet Name
CALGREEN

Date DECEMBER 13, 2022
Owner #
SKA #
Sheet Number A3.1

AIA California

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 2 (January 2020, Includes August 2019 Supplement)

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

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.

5.303.4 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

GENERAL CONTRACTOR

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.
SEE GENERAL NOTE 14. A0.2

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 at www.bsc.ca.gov/Home/CALGreen.aspx 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).

GENERAL CONTRACTOR

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.
SEE GENERAL NOTE 14. A0.2
Note: Refer to the Universal Waste Rule link at:
http://www.dtsc.ca.gov/LawsRegsPolicies/Regs/upload/OEAR-A_REGS_UWR_FinalText.pdf

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)

UNIVERSITY

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: Rural 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.

BUILDING PERMIT APPROVAL
THIS PROJECT HAS DEMONSTRATED CONFORMANCE WITH APPLICABLE CODES AND STANDARDS ESTABLISHED BY STATUTE AND UNIVERSITY POLICY. BASED ON THIS DETERMINATION THESE DOCUMENTS ARE
APPROVED FOR CONSTRUCTION
KASSIDY D. BANDUCCI
Campus Deputy Building Official
California State Polytechnic University, Humboldt
Date: FEBRUARY 14, 2023
Permit No. 2022/23-018, OFS- 22-N-5829-C
Other approvals, as applicable:
[X] OFS APPROVAL [ ] SEISMIC PEER REVIEW
[ ] DSA ACCESS REVIEW [ ] MECHANICAL PEER REVIEW

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. 1

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, 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

GENERAL CONTRACTOR

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.
SEE GENERAL NOTE 16. A0.2

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.

SUAREZ-KUEHNE ARCHITECTURE
2410 14th Avenue
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The California State University
OFFICE OF FIRE SAFETY

CALIFORNIA STATE FIRE MARSHAL
APPROVED
PANIC AND LIFE SAFETY ONLY

Approval of this plan does not authorize or approve any omissions or deviation from applicable regulations and standards. Approved plans shall be available on the project site site at all times.

Approved by: Paige McKibbin 02/09/2023

CSU DESIGNATED CAMPUS FIRE MARSHAL - Paige McKibbin

Project

CAL POLY HUMBOLDT
LIBRARY FLAT ROOF REPLACEMENT
Arcata, California

Project Team

Owner: Trustees of the California State University
Arch: Suarez-Kuehne Architecture San Francisco, CA 94116
Struct: Thornton Tomasetti San Francisco, CA 94108
Plumb: Interface Engineering San Francisco, CA 94105

Seals

LICENSED ARCHITECT JOHN S. SUAREZ C-15467 RENEWAL 5-31-23 STATE OF CALIFORNIA

Revisions

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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.

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 3 (January 2020, Includes August 2019 Supplement)

AIA California

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

Y	N/A	RESPON. PARTY
■	□	GENERAL CONTRACTOR

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

SEE GENERAL NOTE 15. A0.0

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.

TABLE 5.504.4.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS[2,3]

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

COATING CATEGORY	CURRENT VOC LIMIT
FLAT COATINGS	50
NONFLAT COATINGS	100
NONFLAT HIGH GLOSS COATINGS	150
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 at least one of the testing and product requirements:

1. Carpet and Rug Institute's Green Label Plus Program.
2. Compliant with the VOC-emission limits and testing requirements specified in 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 1.1, February 2010 (also known as CDPH Standard Method V1.1 or Specification 01350).
3. NSF/ANSI 140 at the Gold level or higher;
4. Scientific Certifications Systems Sustainable Choice; or
5. Compliant with the Collaborative for High Performance Schools California (2014 CA-CHPS) Criteria listed in the CHPS High Performance Product Database.

5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute Green Label program.

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.

BUILDING PERMIT APPROVAL
THIS PROJECT HAS DEMONSTRATED CONFORMANCE WITH APPLICABLE CODES AND STANDARDS ESTABLISHED BY STATUTE AND UNIVERSITY POLICY, BASED ON THIS DETERMINATION THESE DOCUMENTS ARE
APPROVED FOR CONSTRUCTION
KASSIDY D. BANDUCCI
Campus Deputy Building Official
California State University, University Physical Design
Date: FEBRUARY 14, 2023
Permit No. 2022/23-018, OFS 22-N-5829-C
Other approvals, as applicable:
☒ OFS APPROVAL ☐ SEISMIC PEER REVIEW
☐ DSA ACCESS REVIEW ☐ MECHANICAL PEER REVIEW

Y	N/A	RESPON. PARTY	
■	□	UNIVERSITY	

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).

5.504.4.6 Resilient flooring systems. For 80 percent of floor area receiving resilient flooring, installed resilient flooring shall meet at least one of the following:

1. Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program;
2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health's 2010 Standard Method for the Testing and Evaluation Chambers, Version 1.1, February 2010;
3. Compliant with the Collaborative for High Performance Schools California (2014 CA-CHPS) Criteria and listed in the CHPS High Performance Product Database; or
4. Products certified under UL GREENGUARD Gold (formerly the Greenguard Children's & Schools Program).

5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring 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).

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 (Leq-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.

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.

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Approved by: Paige McKibbin 02/09/2023

CSU DESIGNATED CAMPUS FIRE MARSHAL - Paige McKibbin

Project

CAL POLY HUMBOLDT
LIBRARY FLAT ROOF REPLACEMENT
Arcata, California

Project Team

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Struct: Thornton Tomasetti San Francisco, CA 94108
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Seals

LICENSED ARCHITECT JOHN S. SUAREZ C-15467 RENEWAL 5-31-23 STATE OF CALIFORNIA

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Date DECEMBER 13, 2022
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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.*

DEMO ROOF PLAN NOTES:

1. CONTRACTOR IS REPSONSIBLE FOR BUILIDNG PROTECTION FROM WEATHER DURING ALL PHASES OF CONSTRUCTION.
2. ALL MATERIALS TO BE REMOVED FROM THE PROJECT TO FOLLOW CPH REQUIREMENTS FOR WASTE DISPOSAL (SEE PROJECT MANUAL).
3. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO THE INSTALATION OF THE NEW ROOFING SYSTEM. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING.
4. THE BUILDING IS TO BE OCCUPIED DURING DEMOLITION AND PLACEMENT OF THE NEW ROOFING SYSTEM. THE UNIVERSITY IS TO HAVE COMPLETE ACCESS AND USE OF THE FACILITY EXCEPT FOR LIMITED AREAS AT LIMITED PERIODS OF TIME.
5. COORDINATE REMOVAL AND REINSTALATION OF ROOF TOP STUCTURES AND EQUIPMENT WITH THE UNIVERSITY AS REQUIRED TO INSTALL THE NEW ROOFING SYSTEM. CONTRACTOR IS REPSONSIBLE FOR EXTENDING ALL UTLITIES AND DUCTWORK AS REQUIRED TO RECONNECT EQUIPMENT FOR A COMPLETE INSTALATION.
6. CONTRACTOR IS TO VERIFY ALL ROOF SLOPES SHOWN ON THE PROPOSED ROOF SLOPE PLAN PRIOR TO INSTALATION OF THE NEW ROOFING MEMBRANE.
7. REVIEW ALL PROPOSED WALL CORING LOCS FOR (N) OD OUTLETS W/ UNIV REP PRIOR TO ANY WORK.
8. (E) MALLEABLE SHEET METAL ROOF VENT FLASHINGS ARE PRESUMED TO CONTAIN LEAD. (E) ROOF VENT TO REMIAN, BUT FLASHING TO ROOF MEMBRANE ARE TO BE REMOVED AND REPLACED WITH COMPATIBLE PVC PREFABRICATED FLASHING MATERIALS. MATERIALS CONTAINING LEAD SHALL BE HANDLED AND DISPOSED OF IN ACCORDNACE WITH THE SPECIFICATIONS AND CALIFORNIA 8CCR1532.1.

2

((E) ROOF COVERING, MASTIC & ALL FLASHING TO BE REMOVED)

ALL SLOPING TILE ROOFING TO REMAIN (PROTECT FROM DAMAGE TYP)

(E) RD (VIF) - REMOVE & REPLACE RD

DEMO/CORE CONC FOR (N) OD

(E) PLUMB VENT TO REMAIN

(E) ELEC CONDUIT TO REMAIN

(E) CPH EQUIP (VIF) (CPH TO REMOVE & REINSTALL AFTER ROOFING IS COMPLETE)

DEMO/CORE CONC FOR (N) OD (THIRD FLOOR) (SPD)

(E) HVAC CONDENSER & LINESETS & CONTROLS - REMOVE & RE-INSTALL ON (N) HIGHER CURB (VIF)

ROOF COVERING AT (E) CANOPY TO REMAIN

(E) ROOF MTD AHU - REMOVE & RE-STALL ON (N) HIGHER CURB (VIF)

(E) VENT HOOD - REMOVE & RE-STALL ON (N) HIGHER CURB (VIF)

REMOVE (E) WD BLOCKING & ATTACHMENTS BELOW (E) ROOF MEMBRANE

(E) PLUMB VENT TO REMAIN

REMOVE (E) RD & PIPING - PATCH CONC (VIF)

DEMO/CORE CONC FOR (N) RD

(E) MISC DIMENSIONAL LUMBER AND SAND BAGS TO BE REMOVED AND DISPOSED OF

(E) FLUE TO REMAIN

(E) ANCHOR POINTS FOR BOILER FLUE GUY WIRES (3) TO BE REMOVED

(E) BOILER FLUE VENT TO BE REMOVED (INCL FLUE TO BELOW ROOF DECK & CAP) - (E) CONC CURB TO REMAIN W/ (N) SLOPING GSM WATERTIGHT CAP.
NOTE (E) CEMENTITOUS FLUE IS CLASSIFIED AS A CATEGORY II NONFRIABLE ACM. WORK IMPACTING KNOWN AND/OR PRESUMED ACM SHALL BE CONDUCTED IN ACCORDANCE WTIH SPECIFICATIONS AND CALIFORNIA 8CCR1529.

DEMO/CORE CONC FOR (N) OD

(E) ROOF TRANSITION (VIF)

(E) EX FAN HOOD - REMOVE & RE-STALL ON (N) HIGHER CURB (VIF)

DEMO (E) RWL & SCUPPER (VIF)

(PARAPET)

DEMO MTL DECK FOR (N) RD & OD

(E) VENT HOOD TO BE REMOVED - SEE PROPOSED ROOF PLAN A4.3 FOR DECK INFILL

DEMO/CORE CONC FOR (N) OD

DEMO (E) LOUVER AND REMOVE ACCESS DOOR TO ELEV HOISTWAY

SAWCUT (E) CONC ROOF DECK FOR (N) 8"X18" VENT OPENING

ALL SLOPING TILE ROOFING TO REMAIN (PROTECT FROM DAMAGE TYP)

1 ROOF PLAN - DEMO
3/32" = 1'-0"

BUILDING PERMIT APPROVAL
THIS PROJECT HAS DEMONSTRATED CONFORMANCE WITH APPLICABLE CODES AND STANDARDS ESTABLISHED BY STATUTE AND UNIVERSITY POLICY. BASED ON THIS DETERMINATION THESE DOCUMENTS ARE
APPROVED FOR CONSTRUCTION
KASSIDY D. BANDUCCI
Campus Deputy Building Official
California State Polytechnic University, Humboldt
Date: FEBRUARY 14, 2023
Permit No. 2022/23-018, OFS: 22-N-5829-C
Other approvals, as applicable:
[x] OFS APPROVAL [ ] SEISMIC PEER REVIEW
[ ] DSA ACCESS REVIEW [ ] MECHANICAL PEER REVIEW

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Approved by: Paige McKibbin 02/09/2023

CSU DESIGNATED CAMPUS FIRE MARSHAL - Paige McKibbin

Project

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Arcata, California

Project Team

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Arch: Suarez-Kuehne Architecture San Francisco, CA 94116
Struct: Thornton Tomasetti San Francisco, CA 94108
Plumb: Interface Engineering San Francisco, CA 94105

Seals

LICENSED ARCHITECT JOHN S. SUAREZ C-15467 RENEWAL 5-31-25 STATE OF CALIFORNIA

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Sheet Name

ROOF PLAN - DEMO

Date DECEMBER 13, 2022

Owner #

SKA #

Sheet Number A4.1

PROPOSED ROOF SLOPE PLAN NOTES:

1. ALL ROOF DRAINS (RD) SHOWN ARE TO BE REPLACED W/ (N) ROOF DRAINS @ THEIR (E) LOCATIONS (SPD) UON.
2. ALL OVERFLOW DRAINS (OD) SHOWN ARE (N) OVERFLOW DRAINS @ (N) LOCATIONS (SPD).
3. SEE ROOF PROPOSED PLAN FOR EXTENT OF (N) ROOF WALK PADS AND ROOF TIE-BACK ANCHOR POINTS.
4. EXTEND ALL (E) ROOF PLUMB VENTS APPROX 12" VERTICALLY TO CLEAR (N) PVC PRE-FABRICATED FLASHING MATERIALS. (2)

TYP ROOF SLOPE = 1/4" PER FT TYP UON

GRAY HATCH ROOF SLOPE = 1/8" PER FT TYP

5.5" (+1") = 6.5"

6.8" (+1") = 7.8"

6.5" (+1") = 7.5"

5.5" (+1") = 6.5"

(PARAPET)

2 A6.1

3" (+1") = 4" (@ DOORS)

3" (+1") = 4" (@ LOUVER)

4" (+1") = 5" (@ DOOR/LOUVER)

3.5" (+1") = 4.5" (@ PENT ROOF)

6" (+1") = 7"

6.5" (+1") = 7.5

8.9" (+1") = 9.9"

5.8" (+1") = 6.8"

5.9" (+1") = 6.9"

1 A6.1

3.5" (+1") = 4.5" (@ PENT ROOF)

1 ROOF PLAN - SLOPE PROPOSED
3/32" = 1'-0"

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ROOF PLAN - SLOPE PROPOSED

Date DECEMBER 13, 2022

Owner #

SKA #

Sheet Number A4.2

BUILDING PERMIT APPROVAL

THIS PROJECT HAS DEMONSTRATED CONFORMANCE WITH APPLICABLE CODES AND STANDARDS ESTABLISHED BY STATUTE AND UNIVERSITY POLICY. BASED ON THIS DETERMINATION THESE DOCUMENTS ARE

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KASSIDY D. BANDUCCI
Campus Deputy Building Official
California State Polytechnic University, Humboldt

Date: FEBRUARY 14, 2023
Permit No. 2022/23-018, OFS: 22-N-5829-C

Other approvals, as applicable:
- [x] OFS APPROVAL
- [ ] SEISMIC PEER REVIEW
- [ ] DSA ACCESS REVIEW
- [ ] MECHANICAL PEER REVIEW

PROPOSED ROOF PLAN NOTES:

1. ALL ROOF DRAINS (RD) SHOWN ARE TO BE REPLACED W/ (N) ROOF DRAINS @ THEIR (E) LOCATIONS UON (SPD)
2. ALL OVERFLOW DRAINS (OD) SHOWN ARE (N) OVERFLOW DRAINS @ (N) LOCATIONS (SPD)
3. EXTEND ALL (E) UTILITIES @ ALL (E) ROOF MOUNTED EQUIP NOTED TO BE REMOVED & RE-INSTALLED ON (N) HIGHER ROOF CURBS TO CLEAR (N) SLOPED INSULATION HEIGHTS.
4. CONTRACTOR IS RESPONSIBLE FOR BUILDING PROTECTION FROM WEATHER DURING ALL PHASES OF CONSTRUCTION.
5. ROOF TIE-BACK ANCHOR SYMBOL TYP
6. PATCH AND SEAL PENETRATION WATERTIGHT AT (N) OVERFLOW DRAINS WHERE DAYLIGHTED THROUGH AN EXISTING WALL (GC TO REVIEW PROPOSED LOCS W/ UNIV REP PRIOR TO CORING) - PAINT TO MATCH EXISTING WALL FINISH TYP.
7. EXTEND ALL (E) ROOF PLUMB VENTS APPROX 12" VERTICALLY TO CLEAR (N) PVC PRE-FABRICATED FLASHING MATERIALS. PROVIDE ROOF MFR PREFABRICATED MEMBRANE WATERTIGHT FLASHING @ ALL (E) VENT AND CONDUIT VERTICAL ROOF PENETRATIONS TYP.
8. SEE PLUMB PLANS & SPECIFICATIONS FOR OD LOCATIONS THAT REQUIRE A ROOF OVERFLOW DRAINAGE FLOW SENSOR (8 LOCS THAT DO NOT DAYLIGHT THE OD DRAINAGE TO A VISIBLE EXT LOC). PROVIDE ALARM SIGNAL CONDUCTORS IN CONDUIT BACK TO BMS PANEL FOR ALARM NOTIFICATION.
   FOR BIDDING:
   - SEE PLUMB DRAWINGS FOR POINT OF CONNECTION INFO
   - ASSUME EACH SENSOR LOC WILL REQUIRE THE REMOVAL/REINSTALLATION OF 15 SUSPENDED ACOUSTICAL CEILING TILES (IN ADDITION TO THOSE TILES SHOWN ON A5.1)
   - ASSUME PROGRAMMING AND COMMISSIONING IS REQUIRED FOR ADDITIONAL (8) BMS CONTROL POINTS

1 ROOF PLAN - PROPOSED
3/32" = 1'-0"

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Approved by: Paige McKibbin 02/09/2023
CSU DESIGNATED CAMPUS FIRE MARSHAL - Paige McKibbin

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Seals
LICENSED ARCHITECT JOHN S. SUAREZ C-15467 RENEWAL 5-31-25 STATE OF CALIFORNIA

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Sheet Name
ROOF PLAN - PROPOSED

Date DECEMBER 13, 2022
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Sheet Number A4.3

RCP PROPOSED LEGEND

DESIGNATES AREA REQUIRING REMOVAL & REINSTALLATION OF (E) CEILING ELEMENTS FOR ACCESS TO (N) PLUMBING WORK ABOVE (SPD) CONSISTING OF:

1. (E) T-BAR SUSPENDED ACOUSTICAL CEILING & SUPPORT, INCLUDING ALL BRACING WIRES, STRUTS ETC
2. (E) LIGHTS (INCLUDING CEILING MTD ILLUMINATED EXIT SIGNS) & ANY REQD FRAMES, SUPPORT WIRES, ETC.
3. (E) HVAC DIFFUSERS INCLUDING ANY REQD PERIMETER FRAMES, SUPPORT WIRES, ETC

IF ANY OF THE REMOVED ELEMENTS DESCIBED ABOVE ARE DAMAGED DURING REMOVAL, THEY SHALL BE REPLACED IN-KIND AT NO ADDITIONAL COST TO TRUSTEES (SEE SHEET A10.1 FOR CEILINGS DETAILS & REQUIREMENTS FOR ANY REPLACED CEILING ELEMENTS)

DESIGNATES AREA REQUIRING SPECIAL REPLACEMENT - SEE PLAN FOR NOTES AT EACH AREA

IN THIS AREA: (N) OD ROUTING NEEDS TO VERTICALLY NEGOTIATE TWO (E) LARGE DUCT RUNS EXTENDING SOUTH TO NORTH -ASSUME DUCTS WILL LOCALLY BE MODIFIED UP/DOWN TO ACCOMMODATE THE (N) OD LINE ROUTING TO ASSURE ADEQUATE SLOPE ALL THE WAY TO THE EXT OUTLET (SPD)

SIM

DN

1 LEVEL 3 - PHASE 2 PROPOSED RCP
3/32" = 1'-0"

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RCP - LEVEL 3

Date DECEMBER 13, 2022

Owner #

SKA #

Sheet Number A5.1

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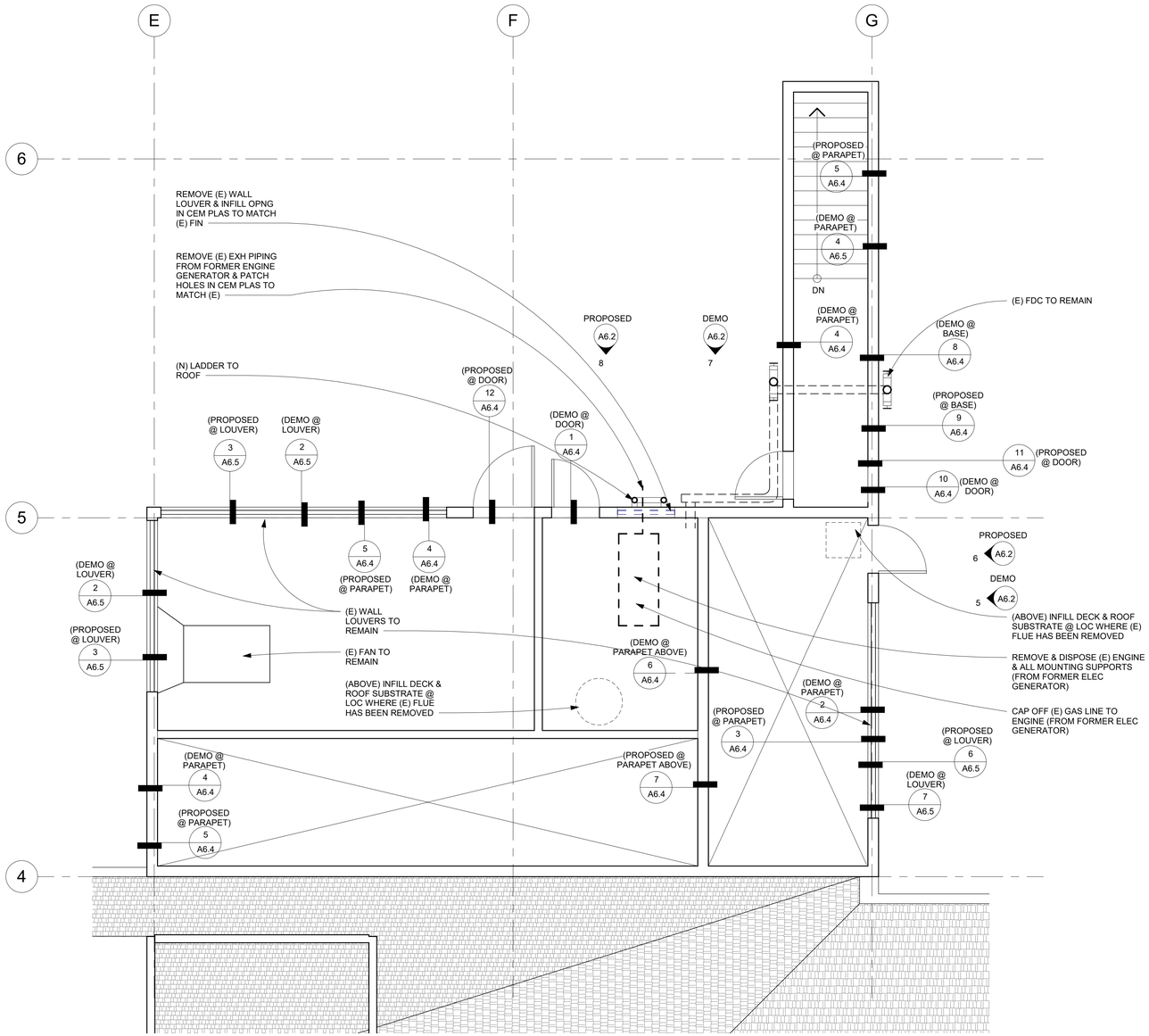
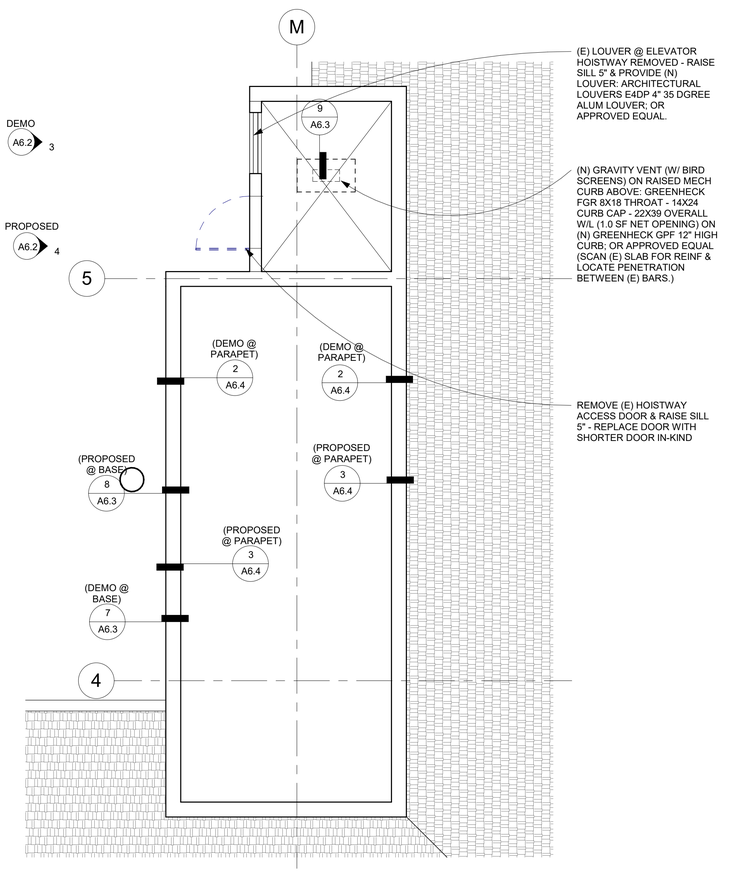


2 ROOF DET PLAN - SOUTH PENTHOUSE PLAN
1/4" = 1'-0"



1 ROOF DET PLAN - NORTH PENTHOUSE PLAN
1/4" = 1'-0"

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CAL POLY HUMBOLDT
LIBRARY FLAT ROOF REPLACEMENT
Arcata, California

Project Team

Owner: Trustees of the California State University
Arch: Suarez-Kuehne Architecture San Francisco, CA 94116
Struct: Thornton Tomasetti San Francisco, CA 94108
Plumb: Interface Engineering San Francisco, CA 94105

Seals

LICENSED ARCHITECT JOHN S. SUAREZ C-15467 RENEWAL 5-31-23 STATE OF CALIFORNIA

Revisions

1	OFS REVS	JAN 20, 2023
2	100% CD ISSUED	FEB 06, 2023

Sheet Name

DETAIL PLANS

Date DECEMBER 13, 2022

Owner #

SKA #

Sheet Number A6.1

BUILDING PERMIT APPROVAL
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KASSIDY D. BANDUCCI
Campus Deputy Building Official
California State Polytechnic University, Humboldt
Date: FEBRUARY 14, 2023
Permit No. 2022/23-018, OFS- 22-N-5829-C
Other approvals, as applicable:
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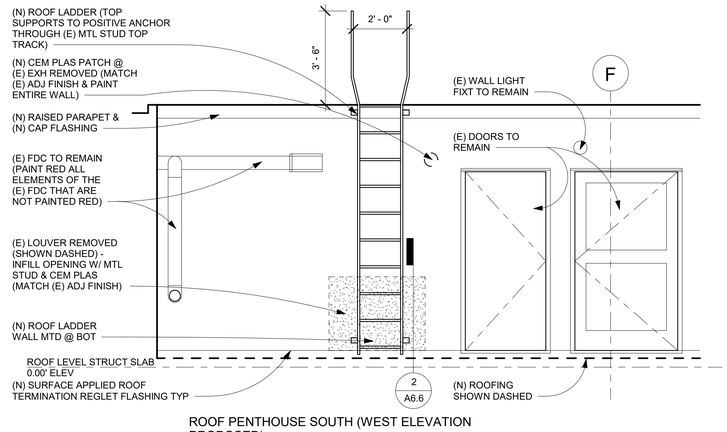
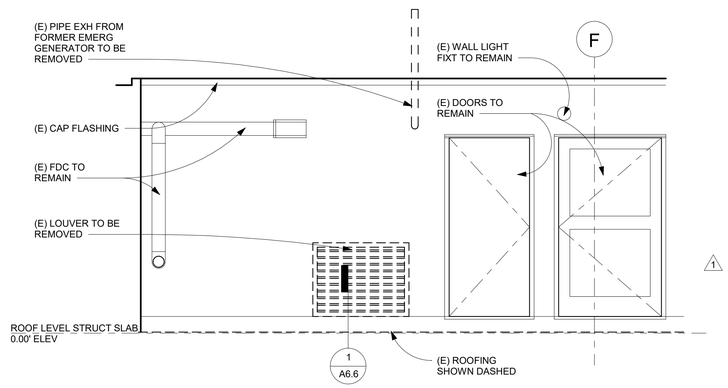
☐ DSA ACCESS REVIEW ☐ MECHANICAL PEER REVIEW



8 ROOF PENTHOUSE SOUTH (WEST ELEVATION PROPOSED)
3/8" = 1'-0"



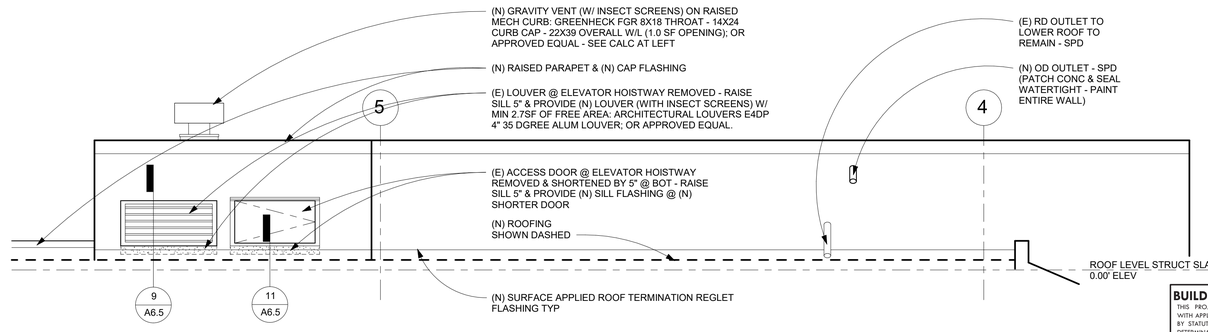
7 ROOF PENTHOUSE SOUTH (WEST ELEVATION EXISTING)
3/8" = 1'-0"

CALCULATION FOR (N) LOUVER @ (E) ELEVATOR HOISTWAY PER 2019 CBC 3003.4.2:

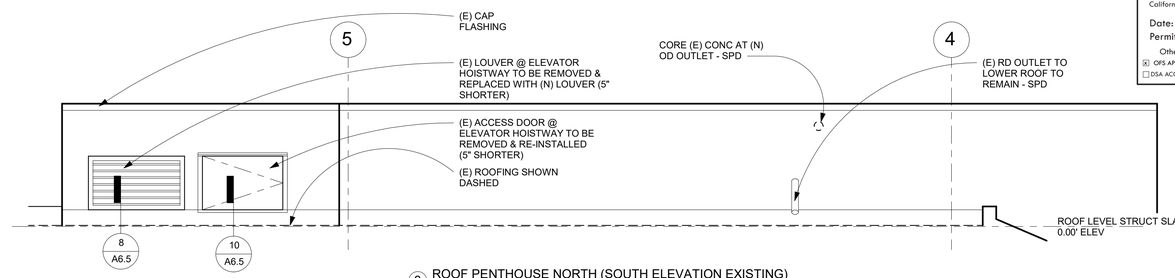
MIN 3.5% OF 70 SF HOISTWAY = 2.45 SF FREE AREA (NOT TO BE LESS THAN 3 SF PER ELEVATOR CAR) = 3SF IS REQUIRED

REDUCED LOUVER OPENING PROVIDES 5.4 SF OF GROSS AREA = 2.7 SF OF NET FREE AREA (@ ASSUMED 50% LOUVER EFFICIENCY)

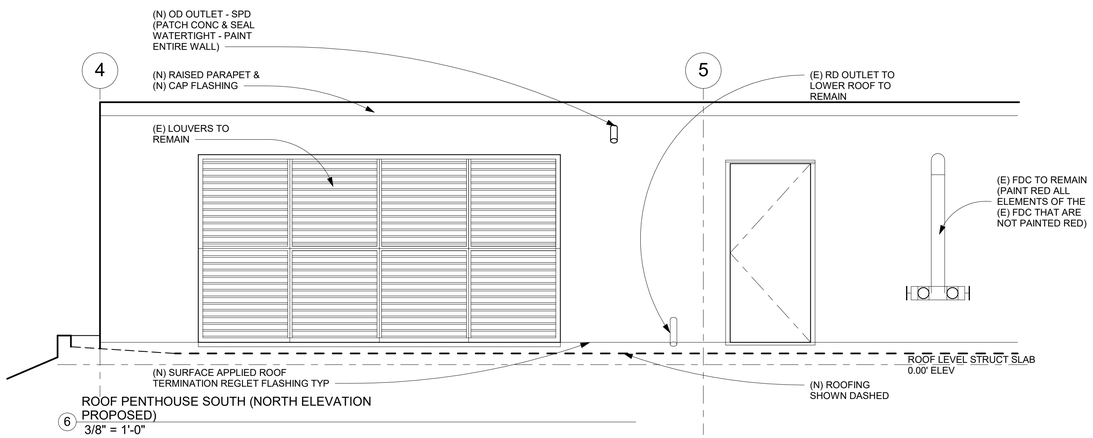
ADDITIONAL GRAVITY VENT IS TO BE PROVIDED AT ROOF OF HOISTWAY (MIN .3 SF OF FREE AREA):



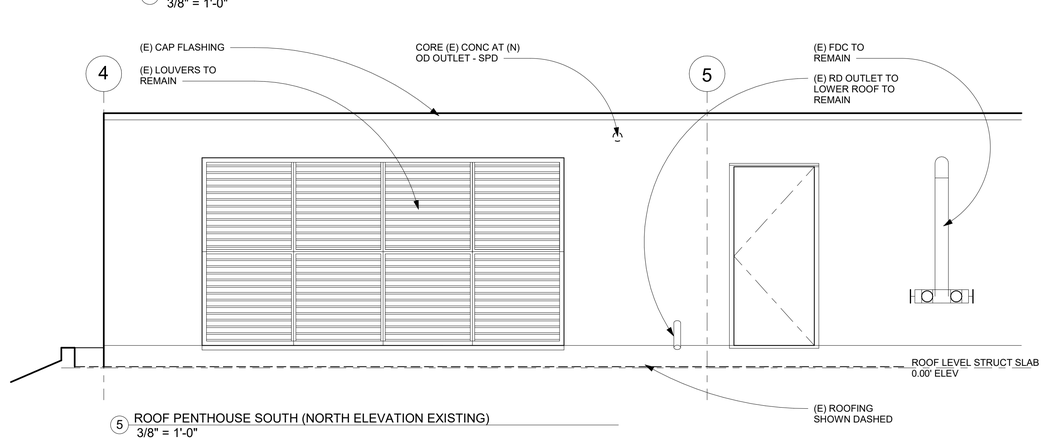
4 ROOF PENTHOUSE NORTH (SOUTH ELEVATION PROPOSED)
3/8" = 1'-0"



3 ROOF PENTHOUSE NORTH (SOUTH ELEVATION EXISTING)
3/8" = 1'-0"



6 ROOF PENTHOUSE SOUTH (NORTH ELEVATION PROPOSED)
3/8" = 1'-0"



5 ROOF PENTHOUSE SOUTH (NORTH ELEVATION EXISTING)
3/8" = 1'-0"

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SUAREZ-KUEHNE ARCHITECTURE
2410 14th Avenue
San Francisco
California 94116
tel 415.242.1400

CSU The California State University
OFFICE OF FIRE SAFETY
CALIFORNIA STATE FIRE MARSHAL APPROVED
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Approved by: Paige McKibbin 02/09/2023
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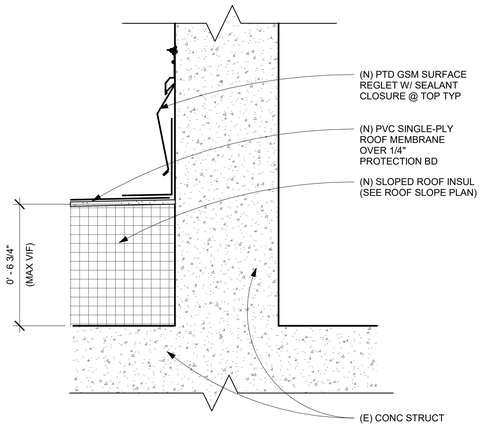
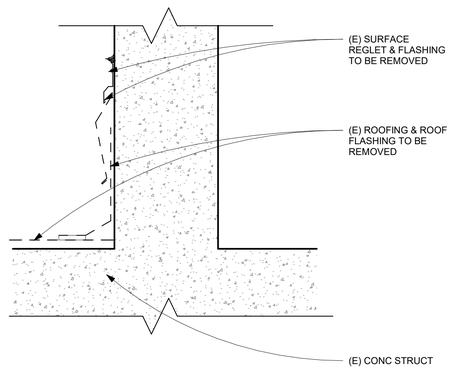
Revisions
1 OFS REVS JAN 20, 2023
2 100% CD ISSUED FEB 06, 2023

Sheet Name
DETAIL ELEVATIONS

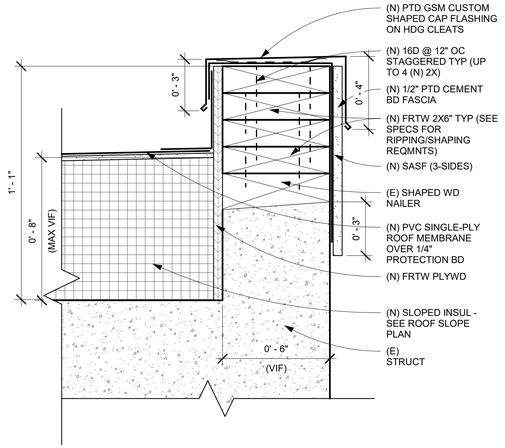
Date DECEMBER 13, 2022
Owner #
SKA #
Sheet Number A6.2



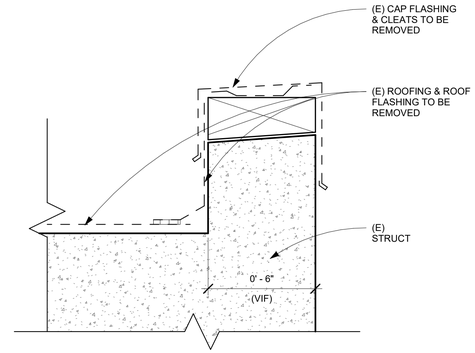
8 ROOF DETAIL - (N) WALL AT STAIR PENT
3" = 1'-0"



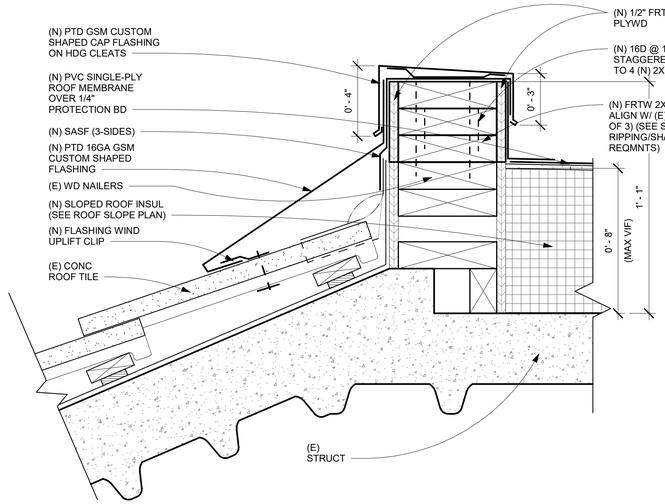
7 ROOF DETAIL - (E) WALL AT STAIR PENT
3" = 1'-0"



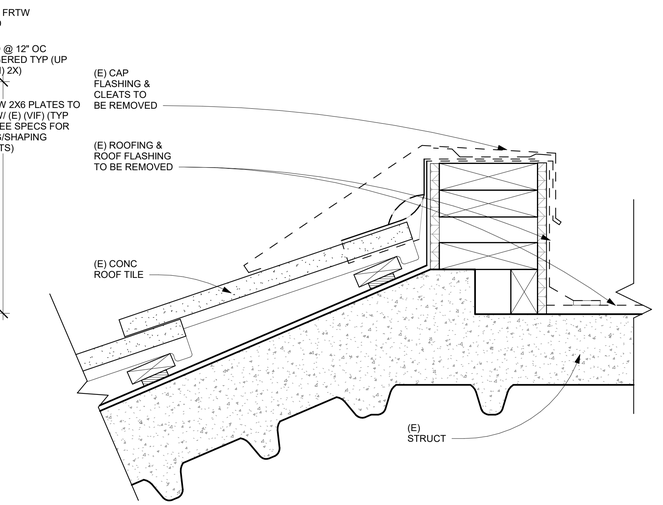
2 ROOF DETAIL - (N) LOW PARAPET
3" = 1'-0"



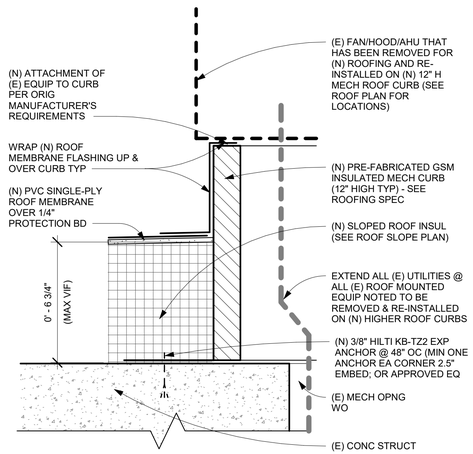
1 ROOF DETAIL - (E) LOW PARAPET
3" = 1'-0"



4 ROOF DETAIL - (N) LOW SLOPE TILE PARAPET
3" = 1'-0"



3 ROOF DETAIL - (E) LOW SLOPE TILE PARAPET
3" = 1'-0"



9 ROOF DETAIL - (N) MECH CURB
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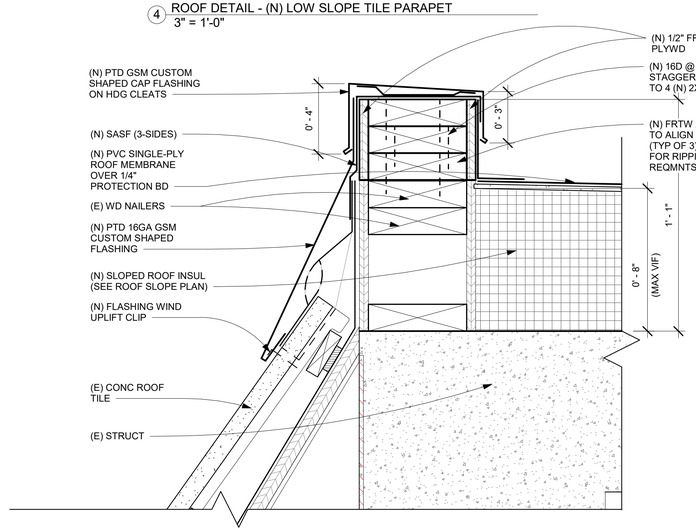
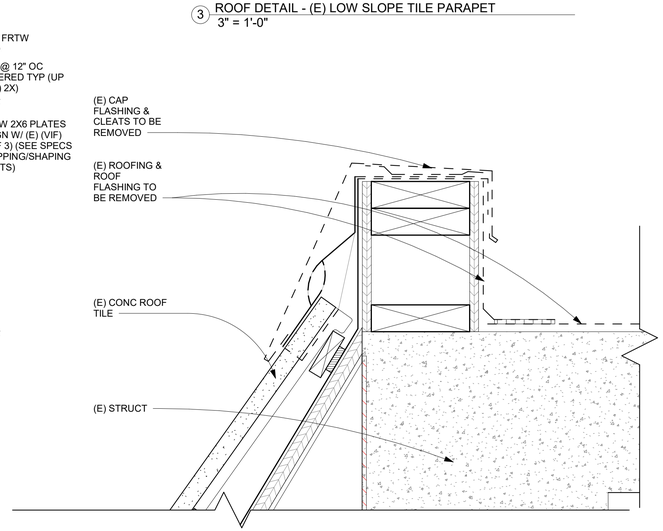


6 ROOF DETAIL - (N) MANSARD TILE PARAPET
3" = 1'-0"



5 ROOF DETAIL - (E) MANSARD TILE PARAPET
3" = 1'-0"

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Approved by: Paige McKibbin 02/09/2023

CSU DESIGNATED CAMPUS FIRE MARSHAL - Paige McKibbin

1

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Revisions

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DETAILS

Date DECEMBER 13, 2022

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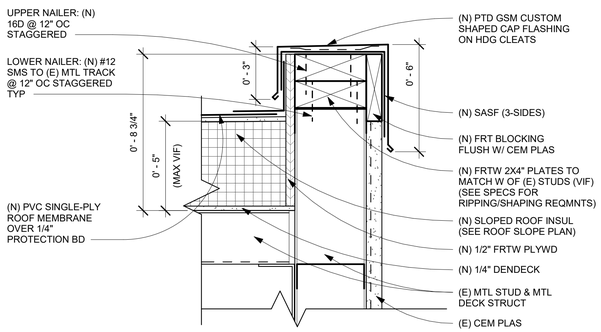
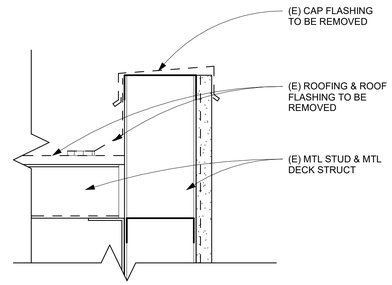
SKA #

Sheet Number

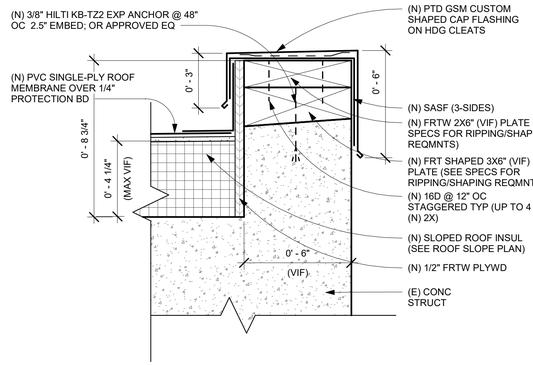
A6.3



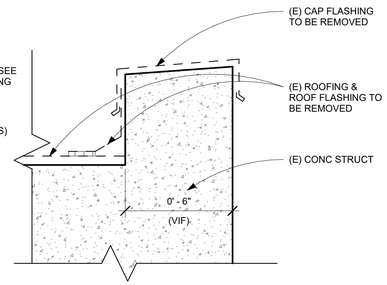
5 ROOF DETAIL - (N) PENT PARAPET (MTL DECK)
3" = 1'-0"



4 ROOF DETAIL - (E) PENT PARAPET (MTL DECK)
3" = 1'-0"



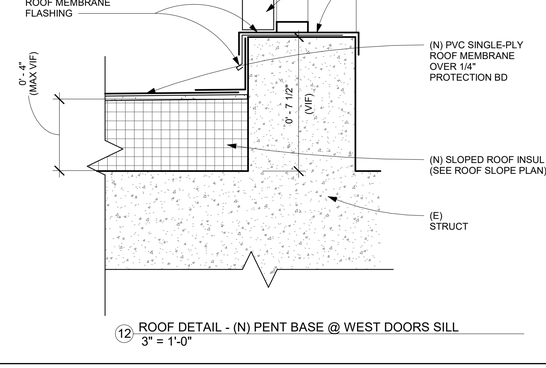
3 ROOF DETAIL - (N) PENT PARAPET (CONC SLAB)
3" = 1'-0"



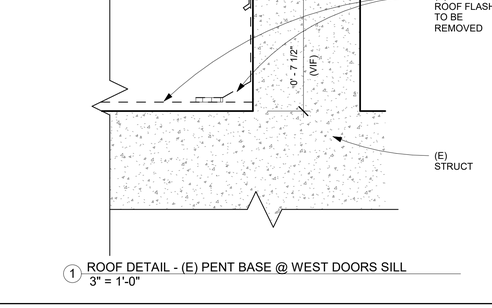
2 ROOF DETAIL - (E) PENT PARAPET (CONC SLAB)
3" = 1'-0"

11 ROOF DETAIL - (N) PENT BASE @ NORTH DOOR SILL
3" = 1'-0"

10 ROOF DETAIL - (E) PENT BASE @ NORTH DOOR SILL
3" = 1'-0"



7 ROOF DETAIL - (N) PENT ROOF (CONC SLAB - MTL DECK)
3" = 1'-0"



6 ROOF DETAIL - (E) PENT ROOF (CONC SLAB - MTL DECK)
3" = 1'-0"

13 ROOF DETAIL - (N) PENT INFILL @ MTL DECK
3" = 1'-0"

9 ROOF DETAIL - (N) PENT BASE
3" = 1'-0"

8 ROOF DETAIL - (E) PENT BASE
3" = 1'-0"

12 ROOF DETAIL - (N) PENT BASE @ WEST DOORS SILL
3" = 1'-0"

1 ROOF DETAIL - (E) PENT BASE @ WEST DOORS SILL
3" = 1'-0"

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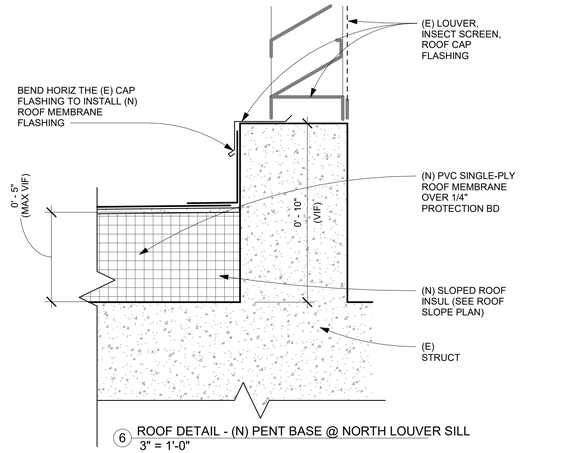
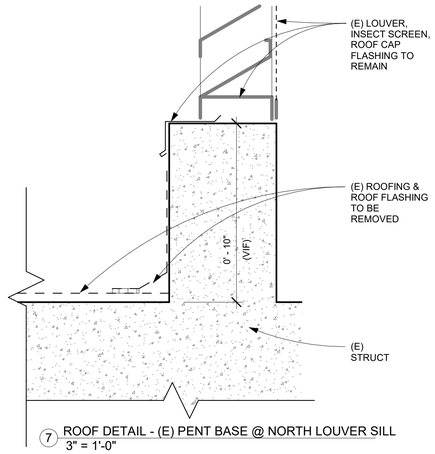
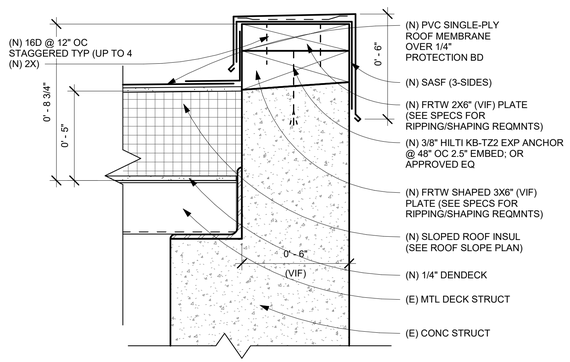


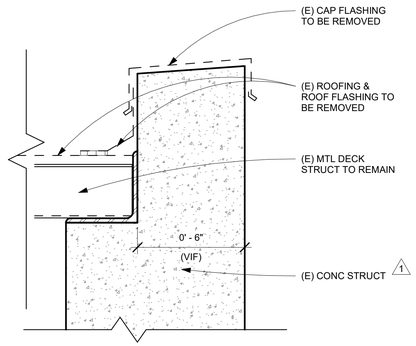
6 ROOF DETAIL - (N) PENT BASE @ NORTH LOUVER SILL
3" = 1'-0"



7 ROOF DETAIL - (E) PENT BASE @ NORTH LOUVER SILL
3" = 1'-0"



5 ROOF DETAIL - (N) PENT PARAPET (CONC WALL - MTL DECK)
3" = 1'-0"



4 ROOF DETAIL - (E) PENT PARAPET (CONC WALL - MTL DECK)
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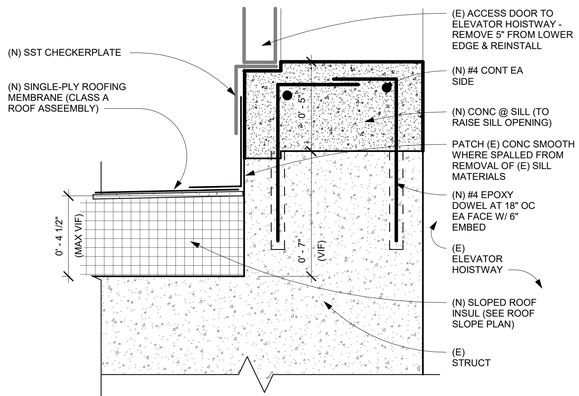
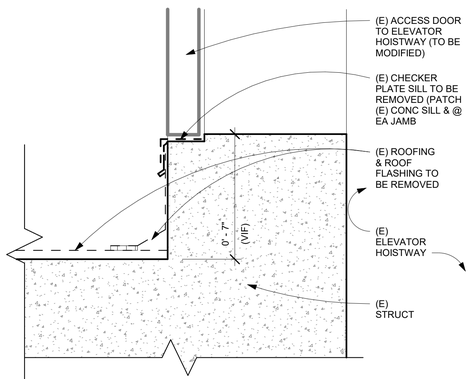


11 ROOF DETAIL - (N) PENT BASE @ ELEV ACCESS SILL
3" = 1'-0"



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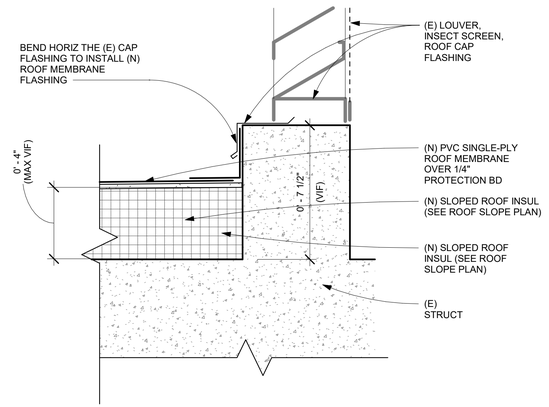
3" = 1'-0"



3 ROOF DETAIL - (N) PENT BASE @ WEST LOUVER SILL
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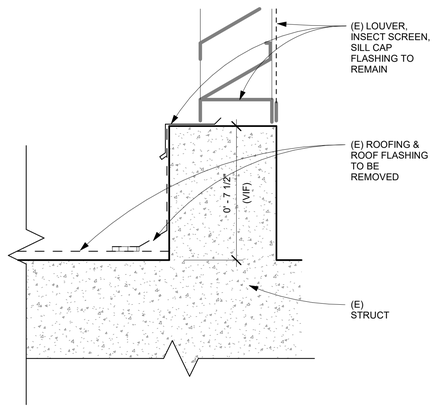
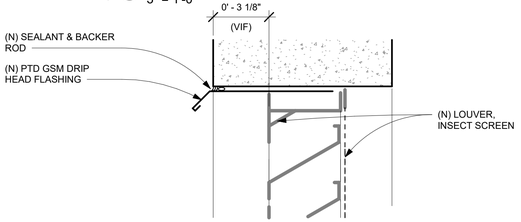
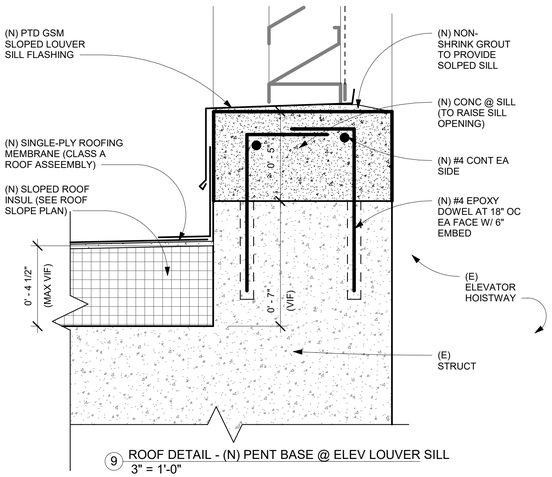
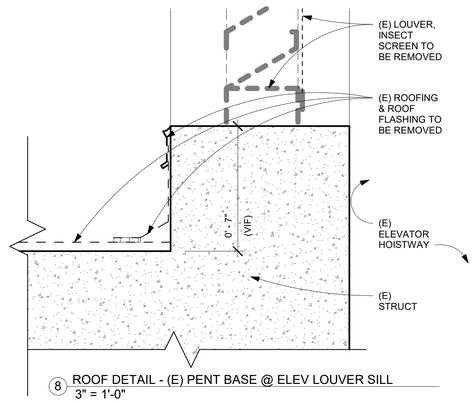


2 ROOF DETAIL - (E) PENT BASE @ WEST LOUVER SILL
3" = 1'-0"

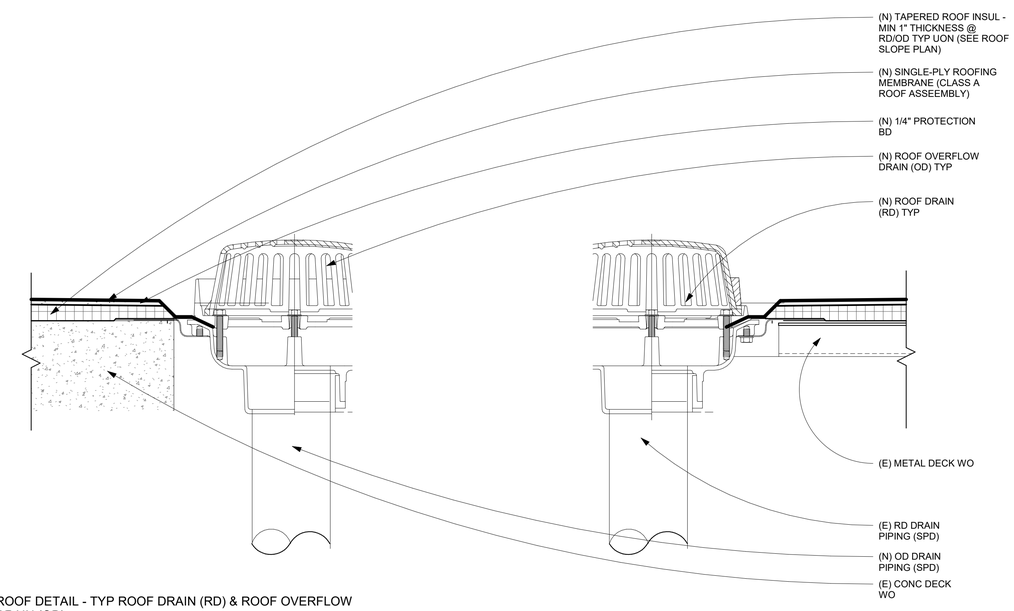




9 ROOF DETAIL - (N) PENT BASE @ ELEV LOUVER SILL
3" = 1'-0"



8 ROOF DETAIL - (E) PENT BASE @ ELEV LOUVER SILL
3" = 1'-0"



1 ROOF DETAIL - TYP ROOF DRAIN (RD) & ROOF OVERFLOW DRAIN (OD)
3" = 1'-0"

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Arch: Suarez-Kuehne Architecture San Francisco, CA 94116
Struct: Thornton Tomasetti San Francisco, CA 94108
Plumb: Interface Engineering San Francisco, CA 94105

Seals

LICENSED ARCHITECT JOHN S. SUAREZ C-15467 RENEWAL 5-31-25 STATE OF CALIFORNIA

Revisions

1	OFS REVS	JAN 20, 2023
2	100% CD ISSUED	FEB 06, 2023

Sheet Name
DETAILS

Date DECEMBER 13, 2022

Owner #

SKA #

Sheet Number
A6.5

PROPOSED ROOF MEMBRANE NOTES:

1. ALL (N) ROOFING MEMBRANE TO BE 60MIL SINGLE-PLY PVC THERMOPLASTIC MECHANICALLY ADHERED (SEE SPECIFICATIONS 07 54 19) AS A CBC 2019 CHAPTER 15 (1505) FIRE CLASSIFICATION: CLASS A ROOF ASSEMBLY.

2. (E) ROOF STRUCTURE OVER OCCUPIED SPACE IS AN 8" THICK FLAT CONCRETE ROOF SLAB AND SATISFIES CBC 2019 TABLE 721.1(3) ITEM 1-1.1 AS A 1-HOUR ROOF ASSEMBLY.

3. (E) ROOF STRUCTURE OVER UNOCCUPIED ROOF MECH PENTHUSE IS A 3" METAL DECK AND NON-RATED PER CBC 2019 1510.2.4 EXCEPTION 1 (AS WALLS/ROOF HAVE A FIRE SEPRATION DISTANCE OF GREATER THAT 20 FEET).

4. SPECIFIED SLOPED INSULATION (DURO-GUARD EPS TYPE IX) HAS AN ASTM E84 FLAME SPREAD OF NOT MORE THAN 20 (ATTACHED UL EVALUATION REPORT ALLOWS ALTERNATE FOAM INSULATION WITH A FLAME SPREAD OF NOT MORE THAN 75).

5. THE ROOF MEMBRANE IS COMPATIBLE WITH A 1-HOUR ROOF ASSEMBLY AND TESTED TO ASTM E108 OR UL 790.

UL Evaluation Report

UL ER10128-01

Issued: January 22, 2016

Revised: February 15, 2022

Visit UL's On-Line Certifications Directory: www.ul.com/erdirectory **for status of Report.**

UL Category Code: ULFB

CSI MasterFormat®

DIVISION: 07 00 00 THERMAL AND MOISTURE PROTECTION
Sub-level 2: 07 50 00 – Membrane Roofing
Sub-level 3: 07 54 00 – Thermoplastic Membrane Roofing
Sub-level 4: 07 54 19 – Polyvinyl-Chloride Roofing

COMPANY:

Duro-Last, Inc.
525 Morley Drive
Saginaw, MI 48601-9485 USA
(800) 428-0280
www.duro-last.com

1. SUBJECT: DURO-LAST, DURO-LAST EV, DURO-LAST X, DURO-TUFF, DURO-FLEECE, and DURO-FLEECE PLUS ROOFING MEMBRANES

2. SCOPE OF EVALUATION

- 2021, 2018, 2015, and 2012, and 2009 *International Building Code*® (IBC)
- 2021, 2018, 2015, and 2012, and 2009 *International Residential Code*® (IRC)
- ICC ES Acceptance Criteria for Roof-Covering Systems (AC75)
- ICC ES Acceptance Criteria for Quality Documentation (AC10)

The products were evaluated for the following properties:

- Roofing Systems for Exterior Fire Exposure (UL 790, ASTM E108)
- Roofing Systems, Wind Uplift Resistance (UL 1897, FM 4474)
- Physical Properties (ASTM D4434, ASTM G155)
- Impact Resistance (UL 2218, ASTM D3746, FM 4470)
- Foot Traffic Resistance (FM 4470)

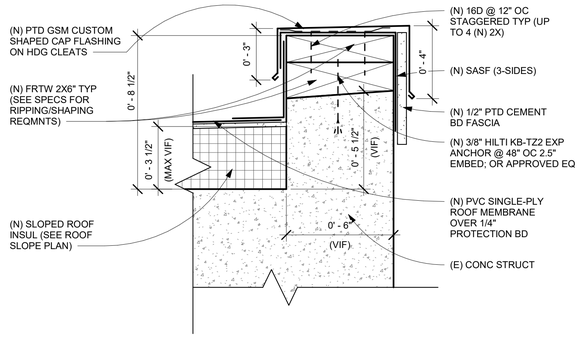
TABLE 7: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION or REROOF (Tear-Off) or RECOVER SYSTEM TYPE A-1: MECHANICALLY ATTACHED INSULATION and ROOF COVER

SYSTEM NO.	ALLOWABLE UPLIFT CAPACITY (lbs/ft²)	INSULATION	MEMBRANE TYPE	LAP TYPE	FASTENER	SPACING (inches)			FIRE RATING UL790/ASTM E108	
						Tab Width	Tab Spacing	Fastener Spacing	Class	Maximum Incline
79	-45	None	Duro-Last	Standard	Duro-Last #14 Concrete Screw or Fluted Concrete Nail and Duro-Last Poly-plates	3	84	6	A	3:12
80	-52		Duro-Last	Hybrid[1]	Duro-Last #14 Concrete Screw or Fluted Concrete Nail and Duro-Last Poly-plates	6	57	12	A	3:12
81	-52		Duro-Last	Hybrid[1]	Duro-Last #14 Concrete Screw or Fluted Concrete Nail and Duro-Last Poly-plates	6	84	6	A	3:12
82	-60		Duro-Last	Standard	Duro-Last #14 Concrete Screw or Fluted Concrete Nail and Duro-Last 2.4-inch Barbed Seam Plates	3	84	6	A	3:12
83	-82		Duro-Last	Hybrid[1]	Duro-Last #14 Concrete Screw or Fluted Concrete Nail and Duro-Last 3 inch Barbed Seam Plates	6	120	6	A	3:12
84	-105		Duro-Last	Hybrid[1]	Duro-Last #14 Concrete Screw or Fluted Concrete Nail and Duro-Last 3 inch Barbed Seam Plates	6	57	6	A	3:12
85	-142	Minimum 1 inch Duro-Guard ISO II-A or Duro-Guard ISO III-A	Duro-Last	Hybrid[1]	Duro-Last #14 Concrete Screw or Fluted Concrete Nail and OMG 2½-inch Eyehook Plates	6	25	6	A	3:12
86	-38	Min. 1½-inch-thick Duro-Guard ISO II-H	Duro-Last	Standard	Duro-Last #14 HD Fasteners with Duro-Last Cleat Plates	3	60	9	A	3:12
87	-38	Min. 1½-inch-thick Duro-Guard ISO II-H	Duro-Last	Hybrid[1]	Duro-Last #14 HD Fasteners with Duro-Last Cleat Plates	6	120	6	A	3:12

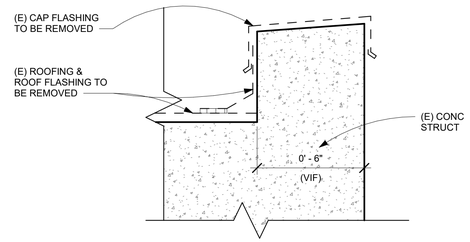
[1]Fastener placed at midline of the 6 inch lap, which is treated with Tab Sealer 4725

1

7 ROOF MEMBRANE APPROVALS
12" = 1'-0"

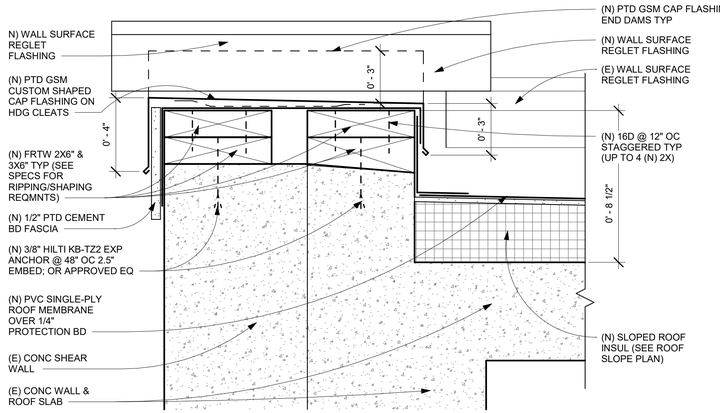


5 ROOF DETAIL - (N) LOADING PARAPET (SOUTH)
3" = 1'-0"

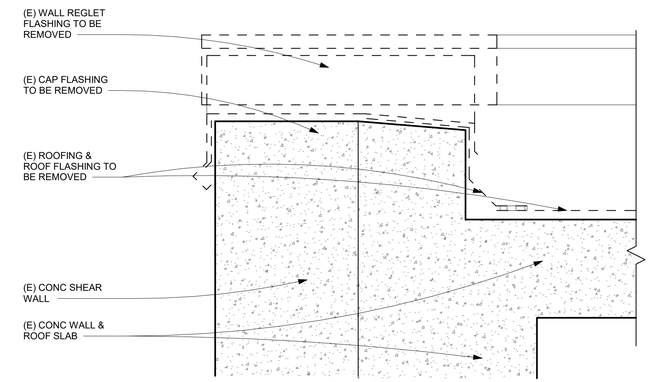


3 ROOF DETAIL - (E) LOADING PARAPET (SOUTH)
3" = 1'-0"

1



6 ROOF DETAIL - (N) LOADING PARAPET (WEST)
3" = 1'-0"



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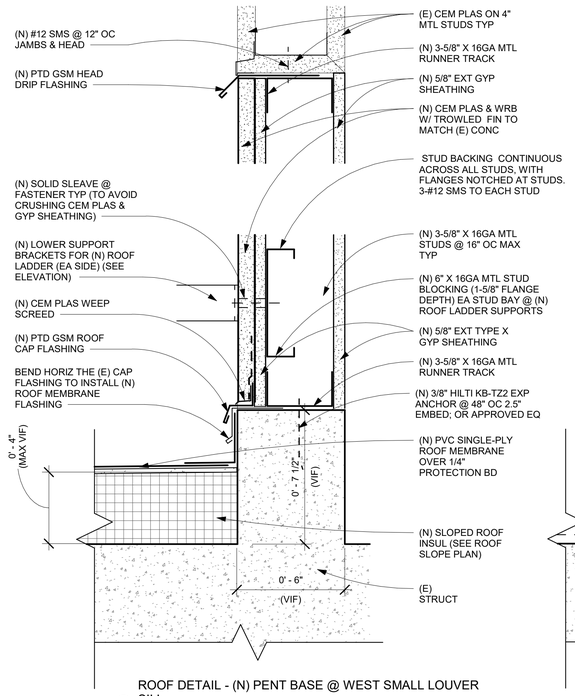
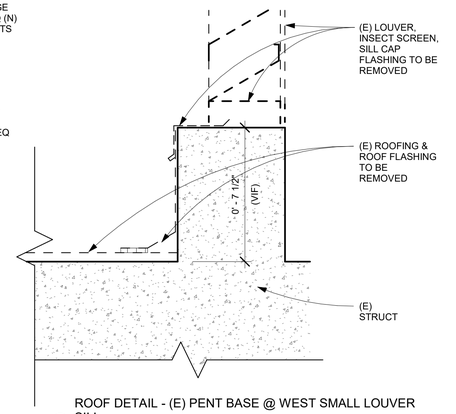


2 ROOF DETAIL - (N) PENT BASE @ WEST SMALL LOUVER SILL
3" = 1'-0"



1 ROOF DETAIL - (E) PENT BASE @ WEST SMALL LOUVER SILL
3" = 1'-0"

BUILDING PERMIT APPROVAL
THIS PROJECT HAS DEMONSTRATED CONFORMANCE WITH APPLICABLE CODES AND STANDARDS ESTABLISHED BY STATUTE AND UNIVERSITY POLICY. BASED ON THIS DETERMINATION THESE DOCUMENTS ARE
APPROVED FOR CONSTRUCTION
KASSIDY D. BANDUCCI
Campus Deputy Building Official
California State Polytechnic University, Humboldt
Date: FEBRUARY 14, 2023
Permit No. 2022/23-018, OFS: 22-N-5829-C
Other approvals, as applicable:
[x] OFS APPROVAL [ ] SEISMIC PEER REVIEW
[ ] DSA ACCESS REVIEW [ ] MECHANICAL PEER REVIEW

SUAREZ-KUEHNE ARCHITECTURE
2410 14th Avenue
San Francisco
California 94116
tel 415.242.1400

CSU The California State University
OFFICE OF FIRE SAFETY
CALIFORNIA STATE FIRE MARSHAL APPROVED
PANIC AND LIFE SAFETY ONLY
Approval of this plan does not authorize or approve any omissions or deviation from applicable regulations and standards. Approved plans shall be available on the project site site at all times.
Approved by: Paige McKibbin 02/09/2023
CSU DESIGNATED CAMPUS FIRE MARSHAL - Paige McKibbin

Project
CAL POLY HUMBOLDT
LIBRARY FLAT ROOF REPLACEMENT
Arcata, California

Project Team
Owner: Trustees of the California State University
Arch: Suarez-Kuehne Architecture San Francisco, CA 94116
Struct: Thornton Tomasetti San Francisco, CA 94108
Plumb: Interface Engineering San Francisco, CA 94105

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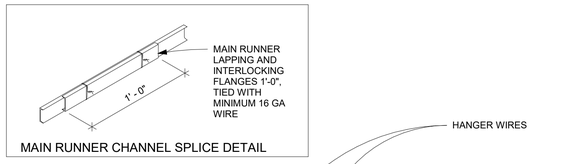
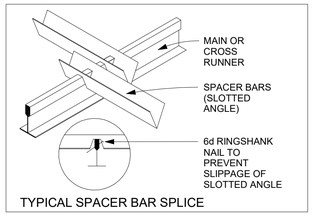
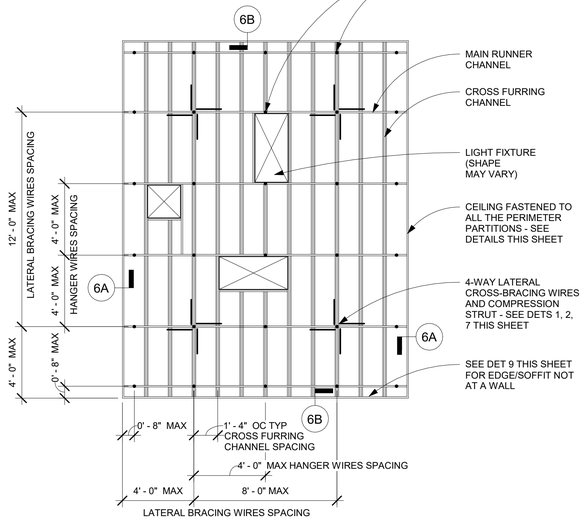


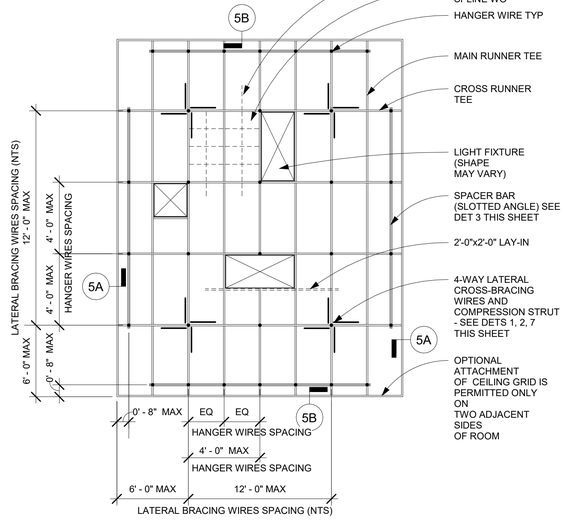
MAIN RUNNER CHANNEL SPLICE DETAIL



TYPICAL SPACER BAR SPLICE



3 DIAGRMMATIC CEILING FRAMING PLAN - GYP BOARD
1/4" = 1'-0"



4 DIAGRAMMATIC CEILING FRAMING PLAN: AC PANEL
1/4" = 1'-0"

SUSPENDED GYPSUM BOARD NOTES:

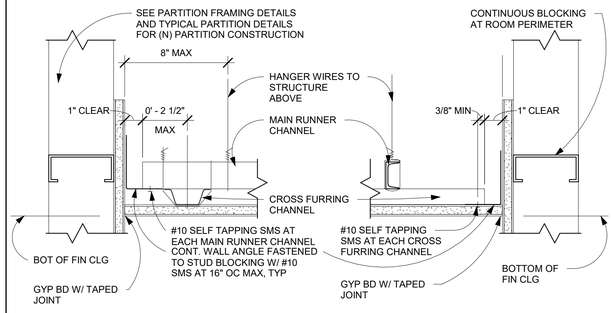
1. #8 GA MIN. HANGER WIRES SHALL BE PROVIDED AT 4'-0" O.C. MAX. ALONG ALL MAIN RUNNER CHANNELS.
2. SPLICES WILL NOT BE PERMITTED IN ANY HANGER WIRES.
3. ALL VERTICAL HANGER WIRES SHALL BE WITHIN 1 IN 6 OF TRUE VERTICAL. HANGER WIRES THAT ARE MORE THAN 1 IN 6 OUR OF PLUMB ARE REQUIRED TO HAVE COUNTERBRACED WIRES. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO MAIN HANGER SPACING.
4. THE SLOPE OF BRACING WIRES SHALL NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND SHALL BE TAUT WITHOUT CAUSING THE CEILING TO LIFT.
5. SPLICES IN BRACING WIRES WILL NOT PERMITTED.
6. CEILING GRID SHALL BE FASTENED TO ALL PARTITIONS. SEE DETAILS FOR END CONNECTIONS OF MAIN RUNNERS AND FURRING CHANNELS TO PARTITIONS.
7. SETS OF 4-WAY #12 GA MIN. SPLAYED LATERAL BRACING WIRES ORIENTED AT 90 DEGREES FROM EACH OTHER SHALL BE PROVIDED AS FOLLOW, AT ROOMS EXCEEDING 96 SF:
   8'-0" O.C. MAX. IN ONE DIRECTION AND 12'-0" O.C. MAX. IN THE OTHER (PERPENDICULAR) DIRECTION. LOCATE THE FIRST SET OF WIRES AT 4'-0" MAX. FROM ANY PARTITION.
   PROVIDE #12 SHEET METAL SCREWS TO MAIN RUNNER CHANNELS TO PREVENT SLIPPAGE OF DIAGONAL BRACE WIRES.
8. SURFACE MOUNTED LIGHT FIXTURES SHALL BE SUPPORTED BY POSITIVE CLAMPING DEVICES MADE OF MATERIAL WITH A MINIMUM THICKNESS OF 14 GA. ROTATIONAL SPRING CLIPS ARE NOT ACCEPTABLE.
9. HANGER WIRES SHALL BE SADDLE-TIED TO MAIN RUNNER CHANNELS; CROSS CHANNEL RUNNERS SHALL BE SADDLE-TIED TO MAIN RUNNER CHANNELS WITH #16 GA (SINGLE STRAND) OR #18 GA (DOUBLE STRAND) TIE WIRES.
10. CROSS RUNNER CHANNELS SHALL BE SPLICED BY LAPPING AND INTERLOCKING 8" MIN AT EACH END AND TIED WITH DOUBLE LOOPS OF #16 GA WIRE.
11. PROVIDE 1" CLEARANCE BETWEEN MAIN RUNNER CHANNEL ENDS AND CROSS FURRING CHANNEL ENDS AND ABUTTING PARTITIONS.
12. AT LIGHT TROFFERS OR ANY OTHER OPENING THAT INTERRUPTS THE CARRYING OF RUNNER/FURRING CHANNELS, INSTALL ADDITIONAL CROSS REINFORCING TO RESTORE LATERAL STABILITY OF GRILLAGE.

ACOUSTICAL PANEL NOTES:

1. #12 GA MIN. HANGER WIRES SHALL BE PROVIDED AT 4'-0" O.C. ALONG ALL MAIN RUNNER TEES.
2. #12 GA MIN. HANGER WIRES SHALL BE PROVIDED WITHIN 8" MAX OF THE ENDS OF ALL MAIN AND CROSS RUNNER TEES, OR WITHIN 1/4 OF THE LENGTH OF THE END MAIN OR CROSS RUNNER TEES, WHICHEVER IS LEAST, AT THE PERIMETER OF THE CEILING AREA.
3. ALL VERTICAL HANGER WIRES SHALL BE WITHIN 1 IN 6 OF TRUE VERTICAL. HANGER WIRES THAT ARE MORE THAN 1 IN 6 OUT OF PLUMB ARE REQUIRED TO HAVE COUNTERBRACED WIRES. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO MAIN HANGER SPACING.
4. (CEILINGS OVER 144 SQ FT) A STRUT FASTENED TO THE MAIN RUNNER SHALL BE EXTENDED AND FASTENED TO THE STRUCTURAL MEMBERS SUPPORTING THE ROOF OR FLOOR ABOVE. THE STRUT SHALL BE ADEQUATE TO RESIST THE VERTICAL COMPONENT INDUCED BY THE BRACING WIRES OR AS DETAILED ON THIS SHEET. HORIZONTAL RESTRAINT POINTS SHALL BE PLACED AT 12'-0" X 12'-0" MAX., WITH THE FIRST POINT WITHIN 6'-0" FROM EACH WALL. REFER TO DETAIL THIS SHEET.
5. (CEILINGS OVER 1,000 SQ FT) SETS OF 4-WAY #12 GA MIN. SPLAYED LATERAL BRACING WIRES ORIENTED AT 90 DEGREES FROM EACH OTHER SHALL BE PROVIDED AS FOLLOWS:
   12'-0" O.C. MAX. IN BOTH DIRECTIONS. THE FIRST SET SHALL BE LOCATED AT 6'-0" MAX. FROM PARTITIONS IN BOTH DIRECTIONS. WHERE VERTICAL OFFSETS OCCUR IN THE CEILING PLANE, ALL THE ABOVE SPACINGS SHALL BE REDUCED BY HALF, IN BOTH DIRECTIONS AND FOR ALL CONDITIONS.
   A MINIMUM OF ONE SET OF BRACING WIRES IS REQUIRED BETWEEN ANY TWO ADJACENT EXPANSION CUTOUTS ON RUNNERS BEING BRACED.
6. (CEILINGS OVER 1,000 SQ FT) THE SLOPE OF BRACING WIRES SHALL NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND SHALL BE TAUT WITHOUT CAUSING THE CEILING TO LIFT.
7. AT THE PERIMETER OF THE CEILING, THE FREE ENDS OF ALL MAIN OR CROSS RUNNERS SHALL BE INTERCONNECTED WITH SPACER SLOTTED ANGLES AT 8" MIN. MEASURED PERPENDICULAR TO THE (1) ADJACENT PARTITION, IN ORDER TO PREVENT LATERAL SPREADING. WHERE THE PERPENDICULAR DISTANCE FROM THE PARTITION TO THE FIRST PARALLEL RUNNER IS 1'-0" OR LESS, THE INTERLOCK IS NOT REQUIRED.
8. CEILING GRID MEMBERS MAY BE ATTACHED TO NO MORE THAN 2 ADJACENT PARTITIONS. CEILING GRID MEMBERS SHOULD BE AT LEAST 1/2" FREE OF ALL OTHER PARTITIONS. IF PARTITIONS RUN DIAGONALLY TO CEILING GRID, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE AND A MINIMUM OF 1/2" CLEAR FROM THE PARTITION.
9. MECHANICAL AND ELECTRICAL ITEMS SHALL BE FASTENED TO CEILING RUNNERS WITH MIN. 2 S.M.S. AT EACH END UON.

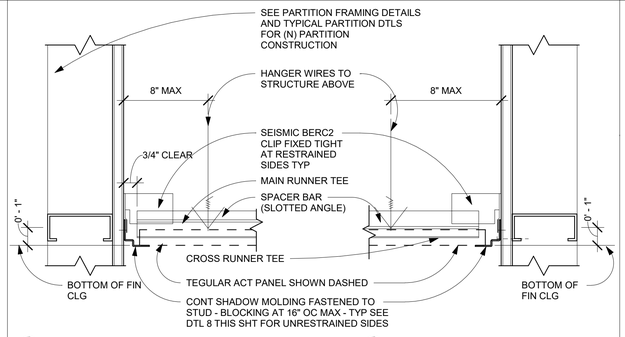
GENERAL NOTES (FOR BOTH GYPSUM AND ACOUSTICAL):

1. VERTICAL WIRES MAY BE ATTACHED TO CONC STRUCTURE ABOVE AS FOLLOWS:
   1. EXP ANCHORS (W/ SERVICE LOAD TO NOT EXCEED CAPACITY OF FASTENER)- SEE DTL 7 THIS SHEET
2. LATERAL BRACING WIRE SHALL BE ATTACHED TO STRUCTURE ABOVE WITH LAG BOLTS - SEE DTL 7 THIS SHEET
3. HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHALL BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE WIRE ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE FORCE ACTING ON THE WIRE.
4. FASTEN HANGER WIRES WITH A MINIMUM OF 3 TIGHT TURNS AND BRACING WIRES WITH A MINIMUM OF 4 TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 1 - 1 ½". ATTACH ALL LIGHT FIXTURES TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURES.
6. ALL FLUSH OR RECESSED LIGHT FIXTURES AND VENTILATION GRILLES WEIGHING LESS THAN 56 LBS SHALL BE SUPPORTED DIRECTLY ON THE MAIN RUNNER CHANNELS OR ON SUPPLEMENTAL FRAMING SUPPORTED BY MAIN RUNNER CHANNELS AND, IN ADDITION, SHALL HAVE A MINIMUM OF 2 - #12 GA SLACK SAFETY WIRES ATTACHED TO THE FIXTURE AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE. ALL 4'-0" X 4'-0" LIGHT FIXTURES SHALL HAVE SLACK WIRES AT EACH CORNER.
7. ALL FLUSH OR RECESSED FIXTURES AND VENTILATION GRILLES WEIGHING 56 LBS OR MORE SHALL BE INDEPENDENTLY SUPPORTED BY MIN. 4 TAUT #12 GA WIRES, ATTACHED TO THE FIXTURE AND TO THE STRUCTURE ABOVE REGARDLESS OF THE TYPE OF CEILING GRID SYSTEM USED. THE 4 TAUT WIRES AND THEIR ATTACHMENT TO THE STRUCTURE ABOVE MUST BE CAPABLE OF SUPPORTING 4 TIMES THE WEIGHT OF THE UNIT. PROVIDE ADD'L SUPPORTS WHEN LIGHT FIXTURES ARE 8'-0" OR LONGER.
8. SEE SPECIFIC UL LISTING REQUIREMENTS FOR LIGHT FIXTURE AND SPEAKER PROTECTION ABOVE RATED CEILINGS.
9. KEEP ALL CEILING HANGER AND BRACING WIRES AT LEAST 6" AWAY FROM ALL UNBRACED DUCTS, PIPES, CONDUIT ETC. DO NOT PENETRATE DUCTWORK WITH HANGER WIRES. IT IS ACCEPTABLE TO ATTACH LIGHT-WEIGHT ITEMS, SUCH AS SINGLE ELECTRICAL CONDUIT NOT EXCEEDING 3/4" NOMINAL DIAMETER, TO HANGER WIRES.
10. SUSPENDED CEILINGS IN SEISMIC DESIGN CATEGORIES D, E & F TO COMPLY WITH ASCE 7-10 SEC 13.5.6.2.1 & ASTM E580 AS FOLLOWS:
    A) ALL CEILINGS SHALL USE A HEAVY DUTY T-BAR GRID SYSTEM.
    B) THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE SHALL BE NOT LESS THAN 2" (7/8" PERIMETER CLOSURE W/ SEISMIC CLIP ALLOWED - SEE DRAWINGS & SPECIFICATIONS).
    C) IN EACH ORTHOGONAL HORIZONTAL DIRECTION, ONE END OF THE CEILING GRID SHALL BE ATTACHED TIGHT TO THE CLOSURE ANGLE.
    D) THE OTHER END IN EACH HORIZONTAL DIRECTION SHALL HAVE A 3/4" CLEARANCE FROM THE WALL AND SHALL REST UPON AND BE FREE TO SLIDE ON A CLOSURE ANGLE OR A LISTED ASSEMBLY.
    E) CEILING AREAS OVER 144 SQ FT MUST HAVE COMPRESSION STRUTS @ 12 FEET O.C.
    F) CEILING AREAS OVER 1,000 SQ FT MUST HAVE HORIZONTAL RESTRAINT WIRES (TYPICALLY RESTRAINT WOULD CONSIST OF (4)12-GA WIRES SPLAYED 90° TO EACH OTHER & SLOPED 45° TO HORIZONTAL @ 12 FEET O.C.).
    G) CEILING AREAS OVER 2500 SQ FT MUST HAVE SEISMIC SEPARATION JOINTS OR FULL HEIGHT PARTITIONS.
    H) CEILINGS WITHOUT RIGID BRACING MUST HAVE 2" OVERSIZE TRIM RINGS FOR SPRINKLERS AND OTHER CEILING PENETRATIONS.



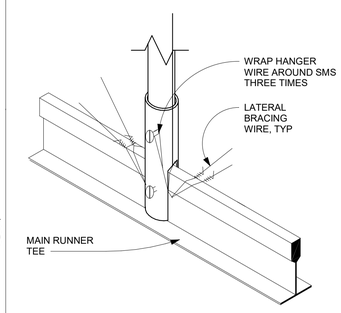
A MAIN RUNNER CHANNELS B CROSS FURRING CHANNELS

6 CEILING FRAMING DETAILS - SUSPENDED GYP BD
3" = 1'-0"

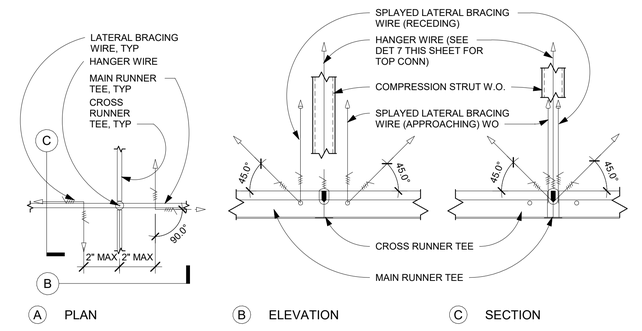


A MAIN RUNNER TEES B CROSS RUNNER TEES

CEILING FRAMING DETAILS - SUSPENDED AC PANEL (RESTRAINED SIDES)
5 3" = 1'-0"

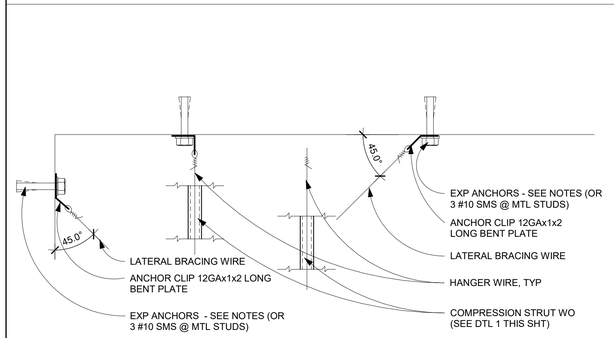


1 COMPRESSION STRUT
6" = 1'-0"

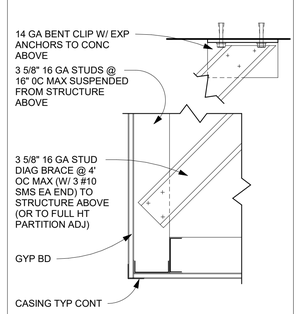


A PLAN B ELEVATION C SECTION

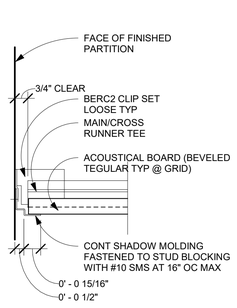
2 CEILING DETAILS - HANGER & BRACING WIRES
3" = 1'-0"



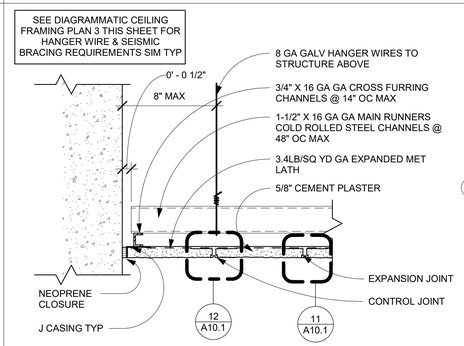
7 WIRE ATTACHMENT @ STRUCTURE
3" = 1'-0"



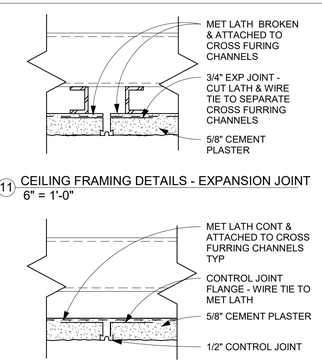
9 SOFFIT @ GYP BD
1 1/2" = 1'-0"



8 PERIMETER TRIM DETAIL (UNRESTRAINED SIDES)
3" = 1'-0"



CEILING FRAMING DETAILS - SUSPENDED CEMENT PLASTER
10 3" = 1'-0"



11 CEILING FRAMING DETAILS - EXPANSION JOINT
6" = 1'-0"

12 CEILING FRAMING DETAILS - CONTROL JOINT
6" = 1'-0"

BUILDING PERMIT APPROVAL
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Approved by: Paige McKibbin 02/09/2023

CSU DESIGNATED CAMPUS FIRE MARSHAL - Paige McKibbin

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LIBRARY FLAT ROOF REPLACEMENT
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Plumb: Interface Engineering San Francisco, CA 94105

Seals

LICENSED ARCHITECT JOHN S. SUAREZ C-15467 RENEWAL 5-31-2023 STATE OF CALIFORNIA

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CEILING NOTES & DETAILS

Date DECEMBER 13, 2022

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A10.1

PLUMBING SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

&	AND
(E)	EXISTING
(N)	NEW
(X)	DEMOLISH
AP	ACCESS PANEL
BFF	BELOW FINISHED FLOOR
BLDG	BUILDING
DSN	DOWNSPOUT NOZZLE
FCO	FLOOR CLEANOUT
N	NORTH
NIC	NOT IN CONTRACT
NO.	NUMBER
NTS	NOT TO SCALE
OD	OVERFLOW DRAIN, OUTSIDE DIAMETER
P	PLUMBING, PUMP
PLBG	PLUMBING
POC	POINT OF CONNECTION
QTY	QUANTITY
RD	ROOF DRAIN
RWL	RAINWATER LEADER
SD	STORM DRAIN
TYP	TYPICAL

PIPE DROP

PIPE RISE

RD — ROOF DRAIN

OD — OVERFLOW DRAIN

Piping Systems

COLD WATER PIPING

OD — OVERFLOW DRAIN PIPING ABOVE GRADE OR FINISHED FLOOR

SD — STORM DRAIN PIPING ABOVE GRADE OR FINISHED FLOOR

SD — STORM DRAIN PIPING BELOW GRADE OR FINISHED FLOOR

Valves

SHUTOFF VALVE, GENERAL

General

DEMOLISH

EXISTING WORK

NEW WORK

CONTINUATION

XX-X LOCATION — EQUIPMENT IDENTIFICATION

(X) — KEYED NOTE

POINT OF CONNECTION

Piping Fittings

AP — ACCESS PANEL

GENERAL PLUMBING NOTES

A CONDITIONS SHOW ON THE PLANS RELATIVE TO THE WORK TO BE PERFORMED ARE BASED ON THE BEST INFORMATION AVAILABLE BUT ARE SUBJECT TO VERIFICATION. VERIFY LOCATIONS AND ELEVATIONS OF UTILITIES TO BE CROSSED OR CONNECTED. CORRECT DEFICIENCIES CAUSED BY FAILURE TO PERFORM SUCH VERIFICATIONS AT NO EXPENSE TO OWNER. IMMEDIATELY NOTIFY ARCHITECT AND ENGINEER OF CONDITION IN CONFLICT WITH THE DETAILS/PLANS.

B COORDINATE INSTALLATION OF PIPING BELOW AND ABOVE GRADE WITH STRUCTURAL COMPONENTS AND OTHER SYSTEMS INSTALLATION.

C COORDINATE FIXTURES, EQUIPMENT, PIPE ROUGH-IN/CONNECTION LOCATIONS AND DRAIN LOCATIONS WITH ARCHITECTURAL DRAWINGS.

D PIPING ROUTED THROUGH ROOF TO BE INSTALLED PER ARCHITECTURAL REQUIREMENTS (SEE ARHICTECTURAL DETAILS).

E LOCATE ALL VTR A MINIMUM OF 10'-0" FROM OUTSIDE AIR OPENINGS OF ROOFTOP HVAC EQUIPMENT.

F LOCATE VALVES FOR SERVICE ACCESSIBILITY. VALVES INSTALLED ABOVE CEILING SHALL BE WITHIN 18" OF CEILING.

G INSTALL OVERHEAD PIPING AS CLOSE TO STRUCTURE AS POSSIBLE IN AREAS WITH EXPOSED ROOF STRUCTURE.

H REFER TO SPECIFICATIONS FOR SEISMIC RESTRAINT REQUIREMENTS FOR PIPING AND EQUIPMENT.

I PROVIDE CLEANOUTS FOR SANITARY WASTE AND STORM DRAINAGE SYSTEMS WHERE SHOWN AND AS OTHERWISE REQUIRED BY CODE.

J VERIFY LOCATIONS OF CONNECTIONS TO PIPING INSTALLED BY SITE CONTRACTOR.

K FURNISH AND INSTALL VALVES, TRAPS, STRAINERS, BACK FLOW PREVENTERS, ETC. NOT FURNISHED BY EQUIPMENT SUPPLIER, BUT REQUIRED FOR PROPER EQUIPMENT OPERATION.

L SHUT-OFF VALVES TO BE INSTALLED IN ALL WATER AND GAS PIPING AT LOCATIONS SHOWN. PROVIDE ACCESS PANELS IF CEILING AND STRUCTURAL CONDITIONS DO NOT ALLOW NORMAL ACCESS. COORDINATE EXACT TYPE AND LOCATION WITH OWNER AND GENERAL CONTRACTOR PRIOR TO ROUGH-IN.

M CONTRACTOR TO PROVIDE LOCATE/SCOPING SERVICES FOR EXISTING PIPING BELOW GRADE AND DOCUMENT/RECORD, COORDINATE WITH NEW WORK PRIOR TO START OF CONSTRUCTION.

N ROOF PENETRATIONS TO BE MINIMUM 5'-0" CLEAR OF TWO HOUR WALL SEPARATIONS.

O SEE PLUMBING FIXTURE SCHEDULE FOR PIPE CONNECTION SIZES.

P COORDINATE INSTALLATION OF PIPING, FIXTURES, EQUIPMENT, ETC. WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND FIRE PROTECTION SYSTEMS PRIOR TO INSTALLATION.

Q PROVIDE CEILING ACCESS PANELS FOR VALVES LOCATED ABOVE INACCESSIBLE CEILING SYSTEMS. VALVES INSTALLED ABOVE CEILING SHALL BE WITHIN 18" OF CEILING. MAINTAIN FIRE RATINGS WHERE REQUIRED.

R SEE ARCHITECTURAL DRAWINGS FOR EXACT FIXTURE LOCATIONS.

DEMOLITION NOTES

A COORDINATE DEMOLITION, CUTTING, PATCHING, ETC. WITH GENERAL CONTRACTOR AND EXISTING FIELD CONDITIONS PRIOR TO SUBMITTING CONSTRUCTION CONTRACT BIDS. SEE SPECIFICATIONS GENERAL PROVISIONS, NOT ALL PIPING IS ILLUSTRATED.

B SAW CUTTING OF ANY FLOOR, AND CORE DRILLING HOLES LARGER THAN EIGHT INCHES DIAMETER IN STRUCTURAL WALLS, FLOOR OR ROOF REQUIRES THE APPROVAL OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA. CONTRACTOR TO RETAIN THE SERVICES OF THE STRUCTURAL ENGINEER AND FORWARD WET STAMPED STRUCTURAL CALCULATIONS TO THE ARCHITECT PRIOR TO BEGINNING WORK. HOLES SMALLER THAN EIGHT INCHES DIAMETER IN STRUCTURAL WALLS, FLOOR OR ROOF SHALL BE REVIEWED BY THE ARCHITECT AND AUTHORIZED IN WRITING PRIOR TO BEGINNING OF WORK.

C REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR SPACE ALLOTMENT, BEAM LOCATION AND COORDINATION PURPOSES. CONFLICTS REGARDING SPACE REQUIREMENTS, CLEARANCES, INTERFERENCE WITH STRUCTURE OR OTHER WORK, ETC., SHALL BE DIRECTED TO THE ARCHITECT FOR RESOLUTION PRIOR TO INSTALLATION OF WORK.

D THE COST OF CUTTING, PATCHING AND PAINTING OF EXISTING WALLS, CEILINGS, AND FLOOR AS REQUIRED TO ACCOMMODATE WORK AS SHOWN OR SPECIFIED HEREIN, SHALL BE INCLUDED IN THE COST OF THE WORK FOR EACH TRADE. EMPLOY SKILLED WORKMEN TO PERFORM CUTTING AND PATCHING AND RESTORE DISTURBED SURFACES TO ORIGINAL CONDITION. THE MATERIALS AND WORKMANSHIP FOR ALL PATCHING SHALL BE AS SPECIFIED IN THE RESPECTIVE SECTIONS OF THE ARCHITECTURAL SPECIFICATIONS, OR AS DIRECTED BY THE ARCHITECT.

E CONTRACTOR SHALL VERIFY AND COORDINATE ALL EXISTING WASTE, VENT AND WATER PIPING TO REMAIN IN SERVICE. EXISTING WASTE, VENT AND WATER PIPING SERVING EXISTING PLUMBING FIXTURES, FLOOR SINKS AND FLOOR DRAINS TO BE REMOVED ARE TO BE CAPPED BELOW FLOOR OR REMOVED BACK TO PLUMBING PIPING REMAINING IN SERVICE THEN CAPPED, EXCEPT AS NOTED. CONTRACTOR SHALL REROUTE/REPIPE EXISTING PIPING TO REMAIN AS REQUIRED TO MAINTAIN SERVICE. EXISTING PIPING SERVING OTHER TENANTS/BUILDING SPACES IS TO REMAIN.

F REMOVE EXISTING FIXTURES, CLEAN AND RE-CONNECT TO EXISTING SERVICES AFTER NEW WALL AND/OR COUNTER FINISHES HAVE BEEN INSTALLED. COORDINATE LOCATION OF EACH FIXTURE WITH ARCHITECT.

MISCELLANEOUS EQUIPMENT SCHEDULE

SYMBOL	EQUIPMENT TYPE	LOCATION / SERVING	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	CAPACITY	GAS DATA INPUT (MBH)	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL AMPS	ELECTRICAL WATTS	ELECTRICAL HP	COMMENTS
OFDS-1	SECONDARY EMERGENCY OVERFLOW ROOF DRAINAGE FLOW SENSOR	ROOF DRAIN RISERS SEE DWG'S	JR SMITH	S1065	---	---	---	---	---	---	---	PROVIDE SENSOR MINUS THE 120V ALARM BOX. CONTACTS FROM THE FLOW SENSOR TO BE DIRECTLY WIRED TO THE BUILDING BMS SYSTEM FIELD CONTROLLER IN RM M-3A AND CONFIGURED TO EMAIL AN ON CALL MANAGER IF TRIGGERED. SENSORS TO BE CONFIGURTED INTO NORTH AND SOUTH ALARM ZONES.

NOTES:

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE TYPE	DESCRIPTION	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	ACCESSORIES	CONNECTION W	CONNECTION V	CONNECTION CW	CONNECTION HW	NOTES
DSN-1	DOWNSPOUT NOZZLE	SIDEWALL TERMINATION, CAST BRONZE, NICKEL BRONZE FINISH, BIRD SCREEN	JR SMITH	1770-NB-BS		SEE DWGS	--	--	--	
OD-1	ROOF DRAIN (OVERFLOW DRAIN)	LARGE AREA, EPOXY COATED CAST IRON BODY WITH FLANGE, FLASHING RING WITH GRAVEL STOP, UNDER DECK CLAMP, EXTENSION, SUMP RECEIVER, 2-INCH WATER DAM, ALUMINUM DOME	JR SMITH	1080-AD-C-E-R-Y		SEE DWGS	--	--	--	
RD-1	ROOF DRAIN	LARGE AREA, EPOXY COATED CAST IRON BODY WITH FLANGE, FLASHING RING WITH GRAVEL STOP, UNDER DECK CLAMP, EXTENSION, SUMP RECEIVER, ALUMINUM DOME	JR SMITH	1010-AD-C-E-R-Y		SEE DWGS	--	--	--	

NOTES:
1 SEE ARCHITECTURAL DRAWINGS FOR ALL FIXTURE MOUNTING HEIGHTS AND LOCATIONS.
* UNLESS NOTED OTHERWISE ON DRAWINGS

SHEET INDEX

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SYMBOLS, NOTES AND SCHEDULES - PLUMBING

Date 20 JANUARY 2023

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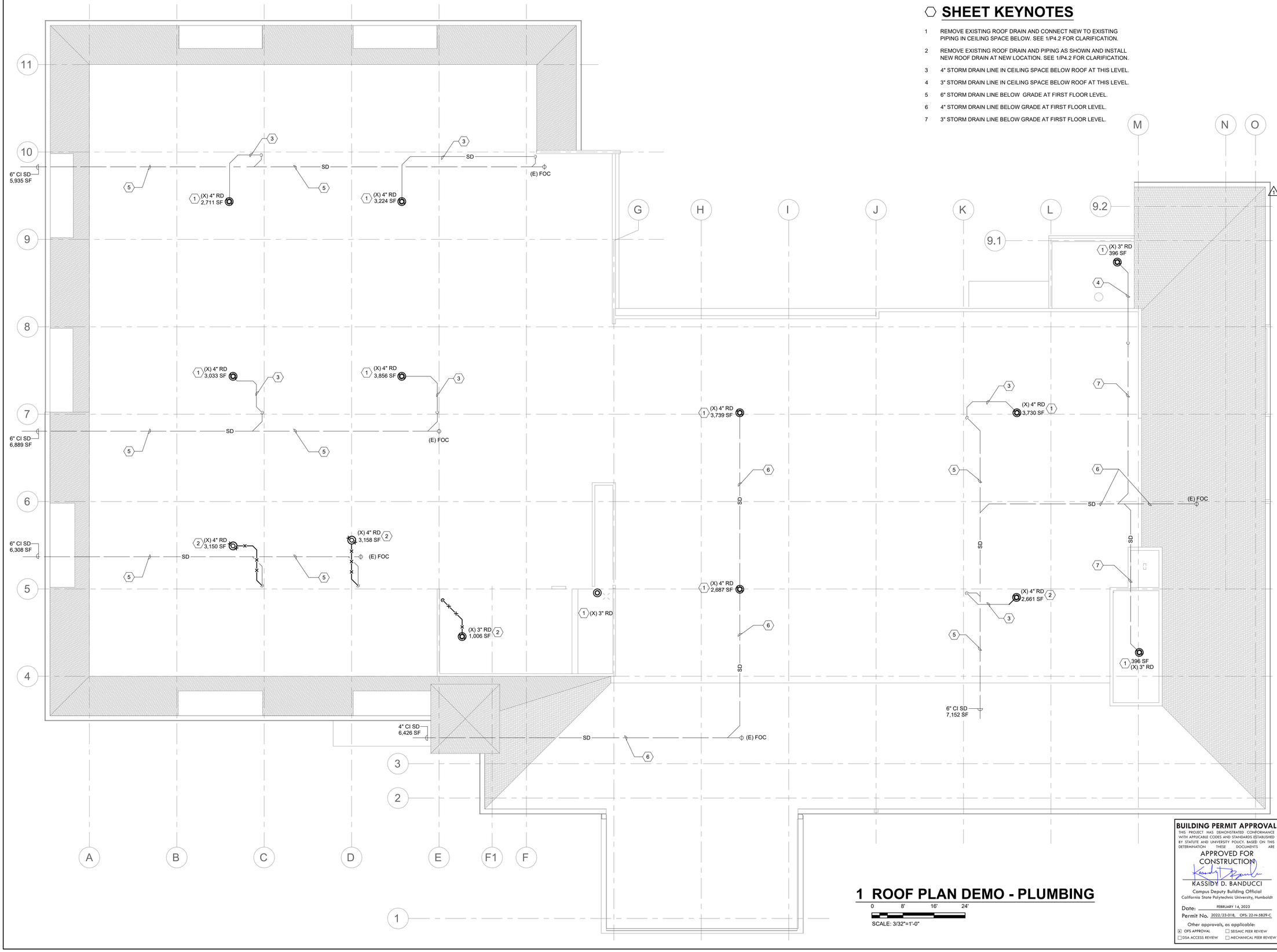

SHEET KEYNOTES

1 REMOVE EXISTING ROOF DRAIN AND CONNECT NEW TO EXISTING PIPING IN CEILING SPACE BELOW. SEE 1/P4.2 FOR CLARIFICATION.

2 REMOVE EXISTING ROOF DRAIN AND PIPING AS SHOWN AND INSTALL NEW ROOF DRAIN AT NEW LOCATION. SEE 1/P4.2 FOR CLARIFICATION.

3 4" STORM DRAIN LINE IN CEILING SPACE BELOW ROOF AT THIS LEVEL.

4 3" STORM DRAIN LINE IN CEILING SPACE BELOW ROOF AT THIS LEVEL.

5 6" STORM DRAIN LINE BELOW GRADE AT FIRST FLOOR LEVEL.

6 4" STORM DRAIN LINE BELOW GRADE AT FIRST FLOOR LEVEL.

7 3" STORM DRAIN LINE BELOW GRADE AT FIRST FLOOR LEVEL.

1 ROOF PLAN DEMO - PLUMBING

0 8' 16' 24'

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

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ROOF PLAN DEMO - PLUMBING

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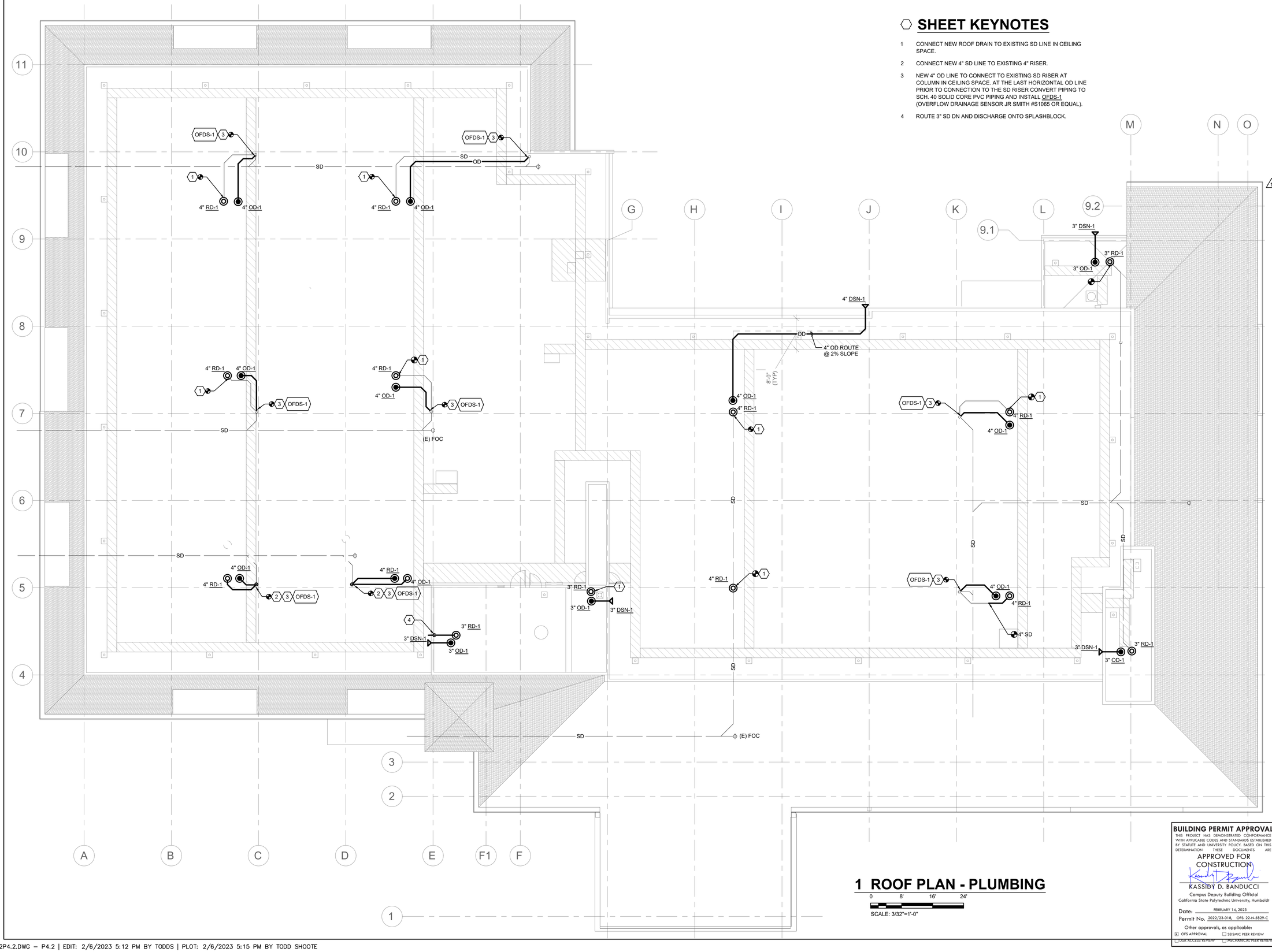
SHEET KEYNOTES

1 CONNECT NEW ROOF DRAIN TO EXISTING SD LINE IN CEILING SPACE.

2 CONNECT NEW 4" SD LINE TO EXISTING 4" RISER.

3 NEW 4" OD LINE TO CONNECT TO EXISTING SD RISER AT COLUMN IN CEILING SPACE. AT THE LAST HORIZONTAL OD LINE PRIOR TO CONNECTION TO THE SD RISER CONVERT PIPING TO SCH. 40 SOLID CORE PVC PIPING AND INSTALL OFDS-1 (OVERFLOW DRAINAGE SENSOR JR SMITH #S1065 OR EQUAL).

4 ROUTE 3" SD DN AND DISCHARGE ONTO SPLASHBLOCK.



1 ROOF PLAN - PLUMBING

0 8' 16' 24'

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

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