HUMBOLDT COUNTY PROBATION BUILDING

2002 HARRISON AVE. EUREKA, CALIFORNIA

HUMBOLDT COUNTY PROJECT NO.: 170212F

COUNTY OF HUMBOLDT
The Home of the Redwoods

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DEFERRED SUBMITTALS

ALL DEFERRED SUBMITTALS SHALL FIRST BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL WHO SHALL REVIEW THEM AND FORWARD THEM TO THE APPROPRIATE AGENCY, AS NOTED BELOW IN PARENTHESIS, WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING LICENSED PROFESSIONALS AS REQUIRED TO DESIGN AND CONSTRUCT THE SYSTEMS INCLUDING PROVIDING SERVICES FOR THE PREPARATION OF DRAWINGS NECESSARY THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL. CBC 107.3.4.2

1. FIRE ALARM

PROJECT NARRATIVE

SCOPE OF WORK:

THIS PROJECT IS LOCATED IN HUMBOLDT COUNTY IN THE CITY OF EUREKA. IT CONSISTS OF A FIRE REBUILD OF THE EXISTING HUMBOLDT COUNTY PROBATION BUILDING, SEVERAL ACCESSIBILITY IMPROVEMENTS, A PARTIAL RE-ROOF, AS WELL AS AN ELEVATOR AND ELEVATOR SHAFT ADDITION.

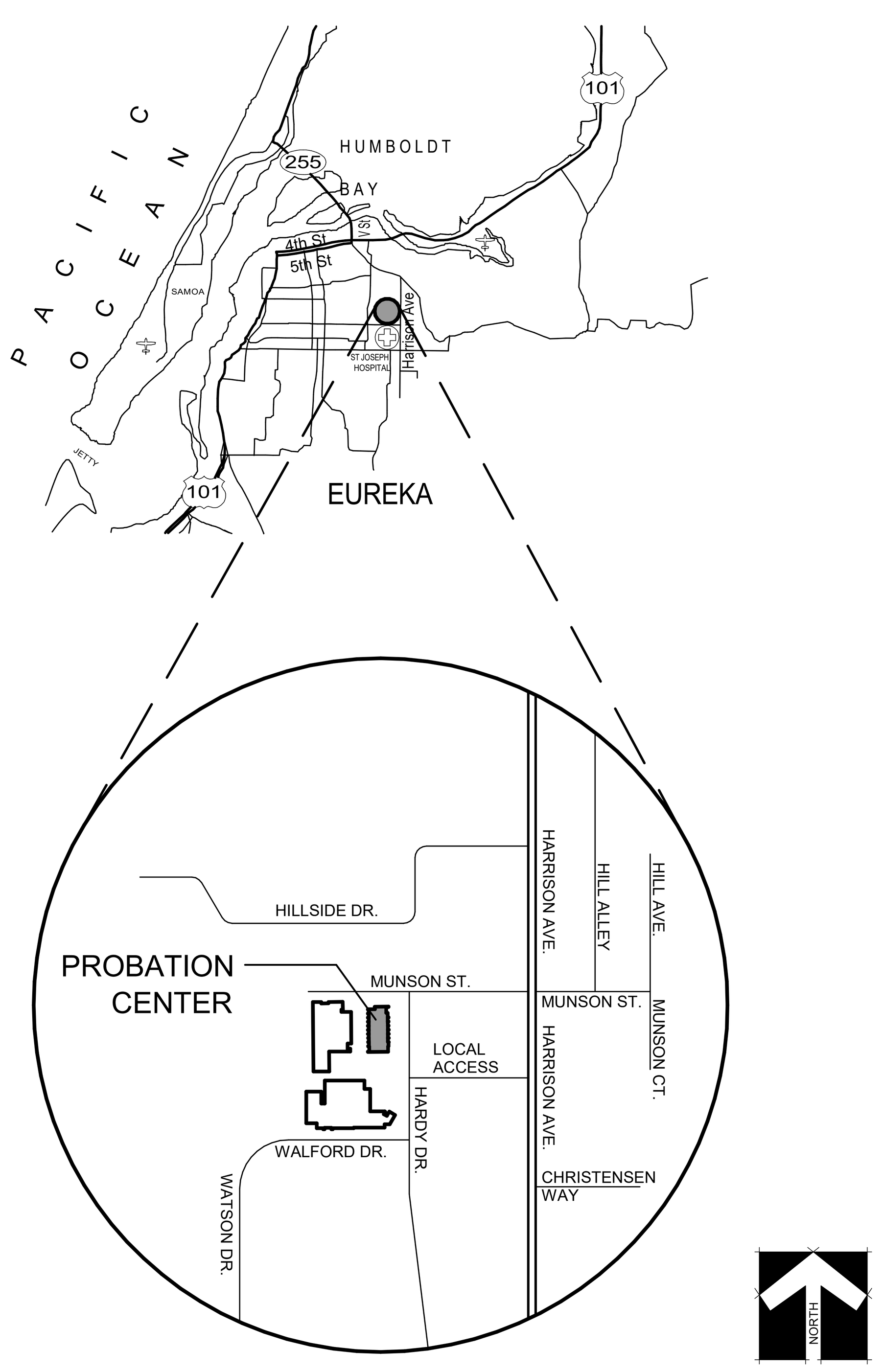
THE PROBATION BUILDING WILL BE APPROXIMATELY 10,922 SQUARE FEET (SF). THIS PROJECT INCLUDES BUT IS NOT LIMITED TO: MASONRY; METALS; WOOD FRAMING; CASEWORK; THERMAL AND MOISTURE PROTECTION; DOORS AND WINDOWS; FINISHES; SPECIALTIES; ELECTRICAL; PLUMBING; MECHANICAL; HEATING AND VENTILATION; AND SITE IMPROVEMENTS.

BUILDING ANALYSIS

1.	OCCUPANCY CLASSIFICATION:	B
2.	CONSTRUCTION TYPE:	V-B (NON-SPRINKLERED)
3.	NUMBER OF STORIES:	2 STORIES
4.	ACTUAL BUILDING HEIGHT:	25'-4"
5.	BUILDING AREA IN SQUARE FEET:	10,922 SQ. FT.
6.	SEPARATED OR NON-SEPARATED USE:	NON-SEPARATED
7.	BASIC ALLOWABLE AREA PER (CBC):	9,000
8.	AREA INCREASE (MODIFIED ALLOWABLE):	31,500
9.	HEIGHT INCREASE:	NO
10.	FIRE SPRINKLERS:	NO
11.	FIRE ALARM:	YES - AUTOMATIC
12.	OTHER FIRE PROTECTION SYSTEMS:	NO
13.	SMOKE CONTROL SYSTEM:	NO
14.	OCCUPANT LOAD:	108 - ENTIRE BUILDING
15.	YEAR BUILDING WAS CONSTRUCTED:	1968
16.	IN A HIGH FIRE-HAZARD-SEVERITY ZONE:	NO
17.	SEISMIC JOINTS:	NO
18.	EMERGENCY RESPONDER RADIO COVERAGE:	NO

* SEE G111 FOR ADDITIONAL BUILDING ANALYSIS

VICINITY MAP



CODES/STANDARDS

APPLICABLE CODES:
ALL WORK PERFORMED & PRODUCTS FURNISHED SHALL COMPLY AS APPLICABLE WITH THE LATEST REGULATIONS OF:

- TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
- 2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
- 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
- 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
- 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
- 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
- 2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
- 2022 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
- 2022 CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24 C.C.R.
- 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R.
- 2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 C.C.R.

APPLICABLE STANDARDS:
ALL WORK PERFORMED & PRODUCTS FURNISHED SHALL COMPLY AS APPLICABLE WITH THE LATEST REGULATIONS OF:

- 2023 NFPA 70 NATIONAL ELECTRICAL CODE
- 2022 NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (CALIFORNIA AMENDED)
- 2021 NFPA 101 LIFE SAFETY CODE
- 2019 NFPA 110 DTANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS
- UL 305 STANDARD FOR PANIC HARDWARE. 2012 EDITION WITH REVISIONS THROUGH
- UL 464 AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS INCLUDING ACCESSORIES. 2003 EDITION WITH REVISIONS THROUGH OCTOBER 10, 2003
- UL 497B PROTECTORS FOR DATA COMMUNICATION AND FIRE ALARM AND CIRCUITS. 2004 EDITION
- UL 521 STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS. 1999 EDITION WITH REVISIONS THROUGH JULY 20, 2005
- UL 1971 STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED. 2002 EDITION (R2010)

GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH ALL APPLICABLE ADOPTED ORDINANCES AND BUILDING AND FIRE PREVENTION CODES. REFER TO THESE DRAWINGS FOR A LIST OF KNOWN APPLICABLE CODES. ANY DISCREPANCIES BETWEEN THESE CODES AND THE CONSTRUCTION DOCUMENTS SHOULD IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE COUNTY. THE CONSTRUCTION DOCUMENTS SHALL NOT BE CONSTRUED AS TO PERMIT WORK THAT DOES COMPLY WITH THESE CODES.
2. DIMENSIONS SHALL TAKE PRECEDENCE OVER ITEMS AS GRAPHICALLY DEPICTED IN THESE DRAWINGS. DIMENSIONS ARE TO FACE OF STUDS OR SLAB, AND TO CENTERLINES OF STEEL MEMBERS, UNLESS NOTED OTHERWISE ON DRAWINGS. DO NOT SCALE DRAWINGS. DIMENSIONS NOTED AS "CLEAR" (CLR) ARE TAKEN TO THE FACE OF FINISH (F.O.F.) MATERIALS. VERIFY DIMENSIONS OF PREFABRICATED AND MANUFACTURED ITEMS AND COORDINATE ROUGH OPENINGS ACCORDINGLY.
3. WHERE CONSTRUCTION DETAILS ARE NOT SHOWN OR NOTED FOR ANY PART OF THE WORK, THE DETAILS SHALL BE THE SAME AS FOR OTHER SIMILAR WORK SHOWN ON DRAWINGS. IF SIMILAR WORK IS NOT DETAILED IN DRAWINGS, WORK SHALL FOLLOW INDUSTRY STANDARDS AND MANUFACTURER'S RECOMMENDATIONS AS ACCEPTABLE TO THE COUNTY.
4. ALL CONSTRUCTION SHALL BE IN STRICT CONFORMANCE WITH MANUFACTURER'S LATEST PUBLISHED SPECIFICATIONS AND INSTRUCTIONS. ALL DISCREPANCIES BETWEEN THESE SPECIFICATIONS AND INSTRUCTIONS AND THE CONTRACT DOCUMENTS PREPARED BY THE ARCHITECT AND ITS CONSULTANTS, SHALL BE BROUGHT TO THE ATTENTION OF THE COUNTY IN WRITING PRIOR TO COMMENCING WORK.
5. VERIFY ALL DIMENSIONS, EXISTING UTILITY LOCATIONS, AND EXISTING CONDITIONS AFFECTED BY THE CONTRACT PRIOR TO STARTING CONSTRUCTION. ANY DISCREPANCIES OR INCONSISTENCIES FOUND SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION BEFORE WORK PROCEEDS.
6. AT WALLS INDICATED AS BEING OF FIRE-RATED CONSTRUCTION WHERE PROTECTION OF OPENINGS IS REQUIRED, MAINTAIN FIRE-RESISTIVE WALL CONSTRUCTION AT BUILT-IN FIXTURES AS REQUIRED BY APPLICABLE CODES.

CONTRACTOR NOTICE

1. THE CONSTRUCTION DOCUMENTS FOR THIS PROJECT ("CONSTRUCTION DOCUMENTS") INCLUDE THE DRAWINGS AND THE SPECIFICATIONS. BOTH ARE INTEGRAL COMPONENTS OF THE CONTRACT FOR CONSTRUCTION BETWEEN HUMBOLDT COUNTY, ("OWNER") AND THE GENERAL CONTRACTOR ("CONTRACTOR").
2. IT IS THE INTENT OF THE CONSTRUCTION DOCUMENTS TO DESCRIBE A COMPLETE, FUNCTIONAL, CODE-COMPLIANT PROJECT TO BE CONSTRUCTED. THE CONSTRUCTION DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ANY PORTION SHALL BE AS BINDING AS IF REQUIRED BY ALL. WORK NOT SPECIFICALLY COVERED IN THE CONSTRUCTION DOCUMENTS SHALL NONETHELESS BE REQUIRED, IF IT IS CONSISTENT THEREWITH OR IS REASONABLY INFERABLE THEREFROM AS BEING NECESSARY OR APPROPRIATE TO PRODUCE THE INTENDED RESULTS.
3. ANYTHING MENTIONED IN THE SPECIFICATIONS BUT NOT SHOWN ON THE DRAWINGS, OR SHOWN ON THE DRAWINGS BUT NOT MENTIONED IN THE SPECIFICATIONS, SHALL BE OF LIKE EFFECT AS IF SHOWN OR MENTIONED IN BOTH.
4. THE CONSTRUCTION DOCUMENTS ARE INTENDED TO BE USED TOGETHER. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ACCESS TO THE COMPLETE BID SET CONSTRUCTION DOCUMENTS PACKAGE, AND ANY ADDENDA THERETO, TO ANY AND ALL NECESSARY SUB-CONTRACTORS, MATERIAL OR EQUIPMENT SUPPLIERS, ETC., AS NECESSARY TO PROVIDE A COMPLETE, RESPONSIVE BID. THE USE OF ANY PORTION OF THE CONSTRUCTION DOCUMENTS IN THE ABSENCE OF THE COMPLETE PACKAGE SHALL BE AT THE SOLE RISK OF THE CONTRACTOR.
5. THE CONSTRUCTION DOCUMENTS APPLY IN THEIR ENTIRETY TO ALL CONTRACTOR FORCES. THE ARCHITECT AND ITS SUB-CONSULTANTS HAVE SHOWN VARIOUS PORTIONS OF THE WORK ON SEPARATE SHEETS AND/OR CLASSIFICATIONS OF DRAWINGS, AND HAVE SPECIFIED VARIOUS PORTIONS OF THE WORK IN SEPARATE SECTIONS OF THE SPECIFICATIONS. SUCH SEPARATIONS SHALL NOT BE CONSIDERED AS THE LIMITS OF THE WORK REQUIRED OF ANY SEPARATE TRADE. THE TERMS AND CONDITIONS OF SUCH LIMITS ARE WHOLLY BETWEEN THE CONTRACTOR AND ITS SUB-CONTRACTORS. THE COMPLETED PROJECT SHALL INCLUDE ALL WORK DEPICTED IN THE CONSTRUCTION DOCUMENTS. THE OWNER WILL CONSIDER THE CONTRACTOR AS THE SOLE PROVIDER OF ALL WORK NECESSARY TO COMPLETE THE PROJECT, TO THE EXTENT SUCH WORK IS REQUIRED BY OR REASONABLY INFERABLE FROM THE CONSTRUCTION DOCUMENTS.
6. SHOULD THE CONTRACTOR DISCOVER A CONFLICT, ERROR, OR DISCREPANCY IN THE CONSTRUCTION DOCUMENTS, THEY SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING, BEFORE PROCEEDING WITH WORK AFFECTED THEREBY. PROCEEDING WITH ANY SUCH WORK WITHOUT FIRST GIVING SUCH TIMELY NOTICE SHALL CONSTITUTE A WAIVER BY THE CONTRACTOR OF ANY RELATED CLAIM(S) FOR ADDITIONAL TIME OR MONEY.
7. THE CONTRACTOR IS RESPONSIBLE FOR FORWARDING A COMPLETE SET OF ALL BUILDING, PLANNING, ETC. COMMENTS TO COUNTY WITHIN 24 HOURS OF RECEIVING SAME.
8. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKMEN, AND ALL OTHER PERSONS DURING CONSTRUCTION.

ARCHITECTURAL SYMBOLS

COLUMN LINE	A / A	
BUILDING SECTION	1 A603	SECTION IDENTIFICATION SHEET WHERE SECTION IS INDICATED
WALL SECTION	1 A603	SECTION IDENTIFICATION SHEET WHERE SECTION IS INDICATED
ELEVATION	1 A503	ELEVATION IDENTIFICATION SHEET WHERE ELEVATION IS INDICATED
INTERIOR ELEVATION	1 A501	ELEVATION IDENTIFICATION SHEET WHERE ELEVATION IS INDICATED
DETAIL SECTION	- A101 SIM.	DETAIL IDENTIFICATION SHEET WHERE DETAIL IS INDICATED
ENLARGED PLAN OR ELEVATION	- A101 SIM.	PLAN IDENTIFICATION SHEET WHERE PLAN IS INDICATED CIRCLED AREA SHOWN ON LARGE SCALE PLAN OR ELEVATION
KEYNOTE	?	KEYNOTE NUMBER W/ LEADER
CONSTRUCTION ASSEMBLY	C 1	CONSTRUCTION ASSEMBLY REFERENCE - REFER TO CEILING ASSEMBLY SCHEDULE (AS OCCURS)
ROOM NAME & NUMBER	Room Name 000	ROOM NAME ROOM NUMBER
CEILING HEIGHT	+10'-10"	CEILING HEIGHT (FLOOR TO FINISH CEILING)
ELEVATION RELATED TO PROJECT DATUM	T.O. +12'-6" FL. 2	HEIGHT ABOVE OR BELOW PROJECT DATUM FLOOR LEVEL (OR COMPONENT INDICATED)
SPOT ELEVATION REFERENCE	0.00 (N) (E) 0.00 / 0.00 (N) 0.00 (E)	HEIGHT ABOVE PROJECT DATUM (NEW OR EXISTING) REFERENCE LOCATION
WALL FINISH IDENTIFIER	FINISH	FINISH MATERIAL
EXISTING WALL		EXISTING WALL TO REMAIN
DEMOLITION		EXISTING WALL TO BE REMOVED
EXISTING DOOR		EXISTING DOOR TO REMAIN (SHOWN DASHED WHEN REMOVED OR RELOCATED)
NEW WALL W/ ASSEMBLY TYPE IDENTIFICATION	0-01-4 XX ● #	NEW WALL ASSEMBLY TYPE - REFER TO A200 SERIES SHEETS
NEW DOOR	0136A	DOOR SUFFIX FOR MULTIPLE DOORS ROOM NUMBER NEW DOOR - REFER TO OPENING SCHEDULE (AS OCCURS)
NEW WINDOW		WINDOW / GLAZING IDENTIFICATION NEW WINDOW - REFER TO WINDOW SCHEDULE (AS OCCURS)
REVISION CLOUD W/ DELTA	1	AREA REVISED REVISION NUMBER
PROPERTY LINE		

SHEET INDEX

ADDITIVE ALTERNATES

1. CASEWORK AND PLUMBING FIXTURES IN ROOM #100: BREAKROOM
2. CASEWORK IN ROOM #111: PROCESSING
3. SITE IMPROVEMENTS ALONG MUNSON ST. FROM THE ENTRANCE TO THE PROBATION BUILDING TO HARRISON AVE.

REVISIONS

If drawing is not 42" x 30" it is a reduced print

LICENSE STAMPS

LICENSED ARCHITECT
STEVEN R. CARTER
C - 34730
REN. 5/31/25
STATE OF CALIFORNIA
[illegible]

KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE
EUREKA, CA 95501

SHEET TITLE

COVER SHEET

DRAWING STATUS
CONSTRUCTION DOCUMENTS

Drawn By	GCP/AMP
Date Issued	06.01.2023
Scale	12" = 1'-0"
Project No.	22-6507

SHEET No.

G000

Plot Date: 6/6/2023 9:14:17 AM
File Name: Autodesk Docs://Humboldt County Probation/A_HCJ-PROBATION.rvt

ABBREVIATIONS

&	AND
(N)	NEW
@	AT
A/C	AIR CONDITIONER
AB	ANCHOR BOLT
AC	ASPHALT CONCRETE
ACOUS	ACOUSTICAL
ACS	ACCESSIBLE
AD	AREA DRAIN
ADDL	ADDITIONAL
ADJ	ADJACENT/ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AGG	AGGREGATE
ALUM	ALUMINUM
APP	APPLICATION
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ASSY	ASSEMBLY
BD	BOARD
BLDG	BLOCK(ING)
BLK(G)	BACKING
BM	BEAM/BENCHMARK
BRG	BEARING
BTM	BOTTOM
BTWN	BETWEEN
BUR	BUILT-UP ROOF
C.F.M.	CUBIC FEET/MINUTE
C.I.	CAST IRON
C.J.	CONTROL JOINT
CAB'T	CABINET
CB	CATCH BASIN
CBC	CALIFORNIA BUILDING CODE
CEM	CEMENT
CEM PLAS	CEM PLASTER
CER	CERAMIC
CG	CORNER GUARD
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CP	CONTROL PANEL
CPT	CARPET
CSK	COUNTER SUNK
CSWK	CASEWORK
CT	CERAMIC TILE
CTR	CENTER
DBL	DOUBLE
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA, Ø	DIAMETER
DIM	DIMENSION
DIW	DOWN IN WALL
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DWG	DRAWING
E.J.	EXPANSION JOINT
EA	EACH
EB	EXPANSION BOLT
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
ELEC	ELECTRIC/ELECTRICAL
ELEV	ELEVATION
EMER	EMERGENCY
ENCL	ENCLOSURE
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EXH	EXHAUST
EXIST, (E)	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FA	FIRE ALARM
FBGL	FIBERGLASS
FD	FLOOR DRAIN
FDTN	FOUNDATION
FE/FEC	FIRE EXTINGUISHER/CABINET
FF	FINISH FLOOR
FHWS	FLAT HEAD WOOD SCREW
FIN	FINISH
FLR	FLOOR(ING)
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FP	FIREPROOF
FRMG	FRAMING
FRP	FIBERGLASS REINFORCED PLASTIC
FT, '	FOOT/FEET
FTG	FOOTING
FUT	FUTURE
FV	FIELD VERIFY
G.I.	GALVANIZED IRON
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GFRC	GLASS FIBER REINFORCED CONCRETE
GLB	GLUE LAMINATED BEAM
GSM	GALVANIZED SHEET METAL
GYP	GYPSUM
GYP BD	GYPSUM BOARD
HB	HOSE BIB
HDR	HEADER
HDWR	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HPL	HIGH PRESSURE LAMINATE
HT	HEIGHT
ID	INSIDE DIAMETER
IN, "	INCH(ES)
INSUL	INSULATION
INT	INTERIOR
ISA	INTERNATIONAL SYMBOL OF ACCESS
JAN	JANITOR
JT	JOINT
LAM	LAMINATE
LAV	LAVATORY
LT	LIGHT
M.B.	MACHINE BOLT
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEM. MB	MEMBRANE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MR	MOISTURE RESISTANT
MTD	MOUNTED
MTL	METAL
NIC	NOT IN CONTRACT
NO	NUMBER
NO, #	NUMBER
NOM	NOMINAL
NR	NOT RATED
NTS	NOT TO SCALE
O/	OVER
OC	ON CENTER(S)
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFF	OFFICE
OFOI	OWNER FURNISHED OWNER INSTALLED
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OTS	OPEN TO STRUCTURE
PAF	POWER ACTUATED FASTENER
PB	PIPE BOLLARD
PERIM	PERIMETER
PFB	PREFABRICATED
PL	PROPERTY LINE, PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTIC/PLASTER
PLYWD	PLYWOOD
PR	PAIR
PROP	PROPERTY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT
PV	PHOTOVOLTAIC
R	RADIUS/RISER
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFRIGERATOR
REINF	REINFORCED/REINFORCING
REM	REMOVE
REQD	REQUIRED
RESIL	RESILIENT
REV	REVERSED
RHMB	ROUND HEAD MACHINE BOLT
RHWS	ROUND HEAD WOOD SCREW
RM	ROOM
RO	ROUGH OPENING
RWD	REDWOOD
RWL	RAIN WATER LEADER
SAD	SEE ARCHITECTURAL DRAWINGS
SAF	SELF ADHESIVE FLASHING
SASWP	SELF ADHESIVE SHEET WATERPROOFING
SC	SOLID CORE
SCHED	SCHEDULE
SD	STORM DRAIN
SECT	SECTION
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SLNT	SEALANT
SMS	SHEET METAL SCREW
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
STS	SELF TAPPING SCREW
SUSP	SUSPENDED
SV	SHEET VINYL
SYM	SYMMETRICAL
SYS	SYSTEM
T	TREAD
TB	TACKBOARD
TEL	TELEPHONE
TEMP	TEMPERED
TG	TONGUE & GROOVE
THK	THICK(NESS)
TO	TOP OF
TOB	TOP OF BLOCK
TOD	TOP OF DECK
TOM	TOP OF MASONRY
TOP	TOP OF PARAPET
TOPO	TOPOGRAPHY
TOS	TOP OF SLAB/STEEL
TOW	TOP OF WALL
TP	TOILET PARTITION
TS	TUBULAR STEEL
TV	TELEVISION
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
UR	URINAL
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VG	VERTICAL GRAIN
VIF	VERIFY IN FIELD
VT	VINYL TILE
VWC	VINYL WALL COVERING
W/	WITH
W/O	WITHOUT
WAIN	WAINSCOT
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WH	WATER HEATER
WP	WATERPROOF(ING)
WTR	WATER
WWF	WELDED WIRE FABRIC

FIRE SAFETY NOTES

1. ENSURE STREET ADDRESS NUMBERS AND/OR SUITE NUMBERS ARE POSTED IN A LOCATION VISIBLE FROM THE STREET. NUMBERS SHALL BE A MINIMUM OF 6" IN HEIGHT WITH A STROKE WIDTH APPROPRIATE FOR THE HEIGHT. NUMBERS SHALL BE OF A HIGHLY CONTRASTING COLOR COMPARED TO THE BACKGROUND ON WHICH THEY ARE APPLIED. NUMBERS PLACED ON GLASS SHALL HAVE A CONTRASTING COLOR APPLIED TO THE GLASS. CFC 505.1
2. ONE, 2-A, 10-BC MINIMUM RATED, FIRE EXTINGUISHER IS REQUIRED FOR EACH 3,000 SQUARE FEET OF FLOOR SPACE OR PORTION THEREOF. MAXIMUM TRAVEL DISTANCE TO ANY ONE FIRE EXTINGUISHER IS NOT EXCEED 75 FEET. MOUNT THE FIRE EXTINGUISHERS SO THAT THE TOPS ARE NO MORE THAN 48" OFF THE FLOOR. ACCESSIBILITY STANDARD 11B-308.2
3. ALL REQUIRED EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. BOTH THE DEAD BOLT AND LATCH MUST RETRACT WITH A SINGLE-HAND MOTION. CBC 1008.1.9
4. INTERNALLY ILLUMINATED EXIT SIGNS, SHOWING THE PATHS OF TRAVEL AND THE EXITS, ARE REQUIRED TO BE PROVIDED PER CALIFORNIA BUILDING CODE SECTION 1011.1
5. EMERGENCY EGRESS ILLUMINATION, LIGHTING THE PATH TO EXITS, SHALL BE PROVIDED PER CALIFORNIA BUILDING CODE SECTION 1006.1
6. A KNOX BOX KEY BOX SHALL BE INSTALLED WITHIN 20 FEET OF THE MAIN ENTRANCE AT HEIGHT NO GREATER THAN 6 FEET. THIS WILL FACILITATE FIRE DEPARTMENT ACCESS IN THE EVENT OF A FIRE OR MEDICAL EMERGENCY. AN APPLICATION/MAIL ORDER FORM FOR THE KEY BOX CAN BE OBTAINED FROM FIRE DEPARTMENT ADMINISTRATION OFFICES. CFC 506.1
7. THIS BUILDING IS LIMITED IN USE TO THOSE LISTED OCCUPANCY TYPES. ANY CHANGE IN THE USE/OCCUPANCY REQUIRED REVIEW AND APPROVAL BY THE BUILDING DEPARTMENT. CBC 111.1.
8. THE MAXIMUM FLAME SPREAD CLASS OF FINISH MATERIALS USED ON INTERIOR WALLS AND CEILINGS SHALL NOT EXCEED CLASS A FOR EXITWAYS AND CLASS C FOR CORRIDORS, ROOMS OR AREAS PER TABLE 803.9 OF THE CALIFORNIA BUILDING CODE. CBC 803.1
9. IN ALL OCCUPANCIES, QUANTITIES AND COMBUSTIBLE LIQUIDS IN EXCESS OF 10 GALLONS USED FOR MAINTENANCE PURPOSES AND THE OPERATION OF EQUIPMENT SHALL BE STORED IN LIQUID STORAGE CABINETS IN ACCORDANCE WITH CFC 5704.3.2.
10. DUCT SMOKE DETECTORS REQUIRED WITHIN 5'-0" OF ALL FIRE/ SMOKE DAMPERS.
11. ALL DUCT DETECTORS SHALL BE CONNECTED TO BUILDING FIRE ALARM SYSTEM.
12. ALL WALLS THAT REQUIRE PROTECTED OPENINGS SHALL HAVE 5/8" THICK TYPE "X" GYPSUM BOARD ON BOTH SIDES U.O.N., CONTINUOUS FROM FLOOR TO UNDERSIDE OF ROOF/CEILING OR FLOOR/CEILING ABOVE.
13. BOX IN ALL RECESSED BOXES WITH GYPSUM BOARD OF THE THICKNESS AND TYPE PROVIDED BY THE WALL SYSTEM WHEN THEY ARE INSTALLED INTO FIRE RATED WALLS AND CEILINGS.
    A. EXCEPTION: BOXES NOT MORE THAN 16 SQUARE INCHES IN SURFACE AREA FOR A SUM TOTAL OF NOT MORE THAN 100 SQUARE INCHES IN ANY 100 SQ. FT. OF WALL SURFACE NEED NOT BE BOXED IN.
14. AT WALLS INDICATED AS ONE-HOUR CONSTRUCTION, MAINTAIN ONE-HOUR FIRE RESISTIVE WALL CONSTRUCTION AT BUILT-IN FIXTURES SUCH AS FIRE EXTINGUISHERS, ELECTRICAL, MECHANICAL AND MEDICAL GAS ITEMS EXCEEDING 16 SQUARE INCHES IN AREA.
15. PENETRATING ITEMS PASSING ENTIRELY THROUGH BOTH PROTECTIVE MEMBRANES OF WALLS REQUIRED TO HAVE A FIRE-RESISTANCE RATING AND WALLS REQUIRING PROTECTED OPENINGS SHALL BE PROTECTED WITH THROUGH-PENETRATION FIRE STOPPING SUITABLE FOR THE METHOD OF PENETRATION PER CBC SECTION 714.
16. MARKING AND IDENTIFICATION - FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING. SUCH IDENTIFICATION SHALL:
    A. BE LOCATED IN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING OR ATTIC SPACES;
    B. BE LOCATED WITHIN 15 FEET OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30 FEET MEASURED HORIZONTALLY ALONG THE WALL OR PARTITION; AND BE LOCATED WITHIN 15 FEET OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30 FEET MEASURED HORIZONTALLY ALONG THE WALL OR PARTITION; AND
    C. INCLUDED LETTERING NOT LESS THAN 3 INCHES IN HEIGHT WITH A MINIMUM 3/8" STROKE IN A CONTRASTING COLOR INCORPORATING THE SUGGESTED WORDING, "FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS" OR OTHER WORDING. CBC SECTION 703.7
    D. EXCEPTION: WALLS IN GROUP R-2 OCCUPANCIES THAT DO NOT HAVE A REMOVABLE DECORATIVE CEILING ALLOWING ACCESS TO THE CONCEALED SPACE.

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REVISIONS

If drawing is not 42" x 30" it is a reduced print

LICENSE STAMPS

LICENSED ARCHITECT
STEVEN R. CARTER
C - 34730
REN 5/31/25
STATE OF CALIFORNIA

KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE
EUREKA, CA 95501

SHEET TITLE

ABBREVIATIONS AND NOTES

DRAWING STATUS
CONSTRUCTION DOCUMENTS

Drawn By	GCP
Date Issued	06.01.2023
Scale	
Project No.	22-6507

SHEET No.

G001

Plot Date: 6/2/2023 1:24:50 PM
File Name: K:\Active\22-6507 Humboldt County Probation\A_HCJ-PROBATION.rvt

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1

INSPECTOR SIGNOFF

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]

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 building [N] or to additions and 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 Tenant improvements. The provisions of this code shall apply only to the initial tenant 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 issued stickers 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 motortruck or truck tractor, designed for carrying more than 10 but not more than 15 persons including the driver, which is maintained and used primarily for the nonprofit work-related transportation of adults for the purpose of ridesharing.

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

ZEV. Any vehicle certified to zero-emission standards.

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SECTION 5.106 SITE DEVELOPMENT

5.106.1 STORM WATER POLLUTION PREVENTION. Newly constructed projects and additions which disturb less than one acre of land and are not part of a larger common plan 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 (BMP). Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMP.

1. Soil loss BMP that should be considered 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 BMP acceptable to the enforcing agency.
2. Good housekeeping BMP 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 BMP acceptable to the enforcing agency.

X

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 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 tenant-occupant vehicular parking spaces 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 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

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5.106.4.2 Bicycle parking. [DSA-SS] For public schools and community colleges, comply with Sections 5.106.4.2.1 & 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. 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 (CEC) 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 into a 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".

X

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] 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 Table 130.2-A and 130.2-B in Chapter 8 and
4. Allowable BUG ratings not exceeding those shown in Table 5.106.8, 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:

1. **[N]** See also California Building Code, Chapter 12, Section 1205.7 for college campus lighting requirements for parking facilities and walkways.
2. Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IEM TM-15-11 Table A-1, California Energy Code Tables 130.2-A and 130.2-B.
3. Refer to the California Energy Code for requirements for additions and alterations.

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

1. Swales.
2. Water collection and disposal systems
3. French drains.
4. Water retention gardens.
5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.

Exception: Additions and alterations not altering the drainage path.

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

5.106.12.1 Surface parking areas. Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50% 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 calculation.

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

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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] (B)					
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					
For area lighting[4]	N/A	U0	U0	U0	U0
For all other outdoor lighting, including decorative luminaires	N/A	U1	U2	U3	U4
MAXIMUM ALLOWABLE GLARE RATING[5]					
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 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.

DIVISION 5.2 ENERGY EFFICIENCY

SECTION 5.201 GENERAL

5.201.1 Scope. ***California Energy Code.*** 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 used 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, multifamaly and other developer installed landscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and climatological parameters.

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

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

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

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

SUBMETER. 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).

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SECTION 5.303 INDOOR WATER USE

5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections 5.303.1.1 and 5.303.1.2.

5.303.1.1 New buildings or additions 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 reduced flushes and one full flush.

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

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

5.303.3.3 Showerheads.
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 showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time.

Note: A hand-held shower shall be considered a showerhead.

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

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

5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than 1.8 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.

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REVISIONS

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LICENSE STAMPS

LICENSED ARCHITECT STEVEN R. CARTER C - 34730 REN 5/31/25 STATE OF CALIFORNIA

KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE EUREKA, CA 95501

SHEET TITLE

CALGREEN CHECKLIST

DRAWING STATUS
CONSTRUCTION DOCUMENTS

Drawn By	GCP
Date Issued	06.01.2023
Scale	
Project No.	22-6507

SHEET No.

G002

Plot Date: 6/2/2023 1:24:50 PM
File Name: J:\Acadcad\ Docs\Humboldt County Probation\A_HCJ-PROBATION.rvt

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 2

INSPECTOR SIGNOFF

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 of 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 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 waste, nonhazardous wood waste, and food soiled paper waste that is mixed in with food waste.

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

SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT

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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.

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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.

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SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

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

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

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

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

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

Exceptions to Sections 5.408.1.1 and 5.408.1.2:

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

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

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

Notes:

1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located 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).

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

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

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.

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5.410.2 COMMISSIONING. [N] 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 by 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 120.5 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*.

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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 sustainability 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 systems.

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. Testing and adjusting of systems shall be required for 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 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.

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DIVISION 5.5 ENVIRONMENTAL QUALITY

SECTION 5.501 GENERAL

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

SECTION 5.502 DEFINITIONS

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

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

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

1 BTU/HOUR. British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu, the amount of heat required to melt a ton (2,000 pounds) of ice at 320/ 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 hydrochlorofluorocarbon, 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 hundredths of a gram (g O3/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, gauge.

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

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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.

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

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LICENSE STAMPS

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STATE OF CALIFORNIA

KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE
EUREKA, CA 95501

SHEET TITLE

CALGREEN CHECKLIST

DRAWING STATUS
CONSTRUCTION DOCUMENTS

Drawn By	GCP
Date Issued	06.01.2023
Scale	
Project No.	22-6507

SHEET No.

G003

Plot Date: 6/2/2023 1:24:51 PM
File Name: J:\Projects\Docs\Humboldt County Probation\A_HCJ-PROBATION.rvt

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NONRESIDENTIAL MANDATORY MEASURES, SHEET 3

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

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

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

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

TABLE 5.504.4.1 - ADHESIVE VOC LIMIT[1,2]

Less Water and Less Exempt Compounds in Grams per Liter

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

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.
2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF

TABLE 5.504.4.2 - SEALANT VOC LIMIT

Less Water and Less Exempt Compounds in Grams per Liter

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

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

X

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.

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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.

X

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.

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 and 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.

X

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 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.

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X

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).

X

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 (CA-CHPS) Criteria Interpretation for EQ 7. and EQ 7.1 (formerly EQ 2.2) dated July 2012 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:
1. 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.

X

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:
   a. L^{dn} or CNEL for military airports shall be determined by the facility Air Installation
   b. 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 Ldn 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 Leq - 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.

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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-fourth-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 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 over 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 that 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.

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LICENSE STAMPS

LICENSED ARCHITECT STEVEN R. CANTU C - 34730 REN 5/31/25 STATE OF CALIFORNIA

KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE
EUREKA, CA 95501

SHEET TITLE

CALGREEN CHECKLIST

DRAWING STATUS
CONSTRUCTION DOCUMENTS

Drawn By	GCP
Date Issued	06.01.2023
Scale	
Project No.	22-6507

SHEET No.

G004

Plot Date: 6/2/2023 1:25:51 PM
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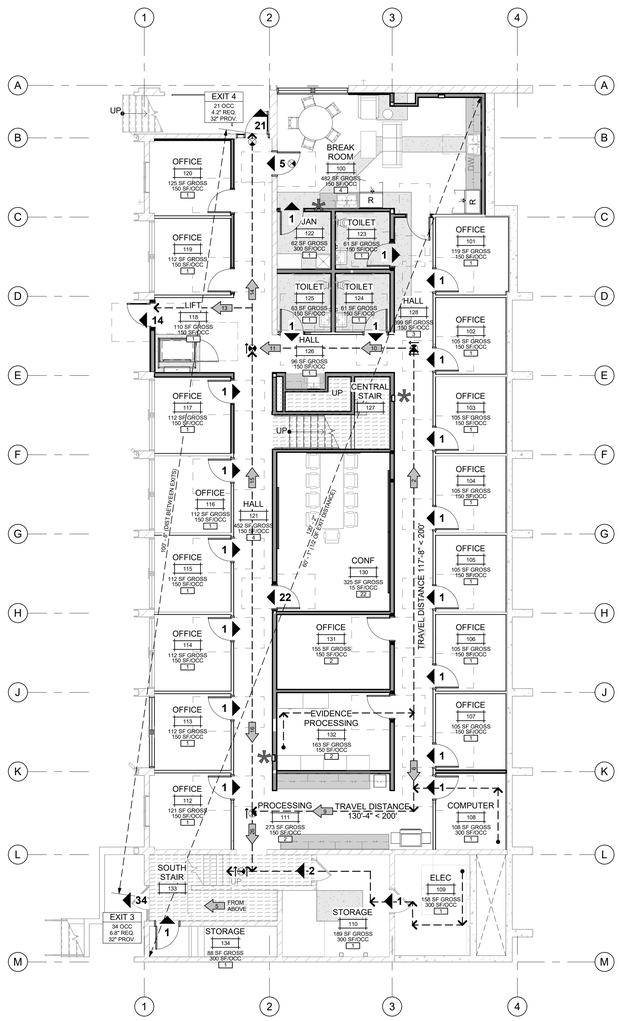
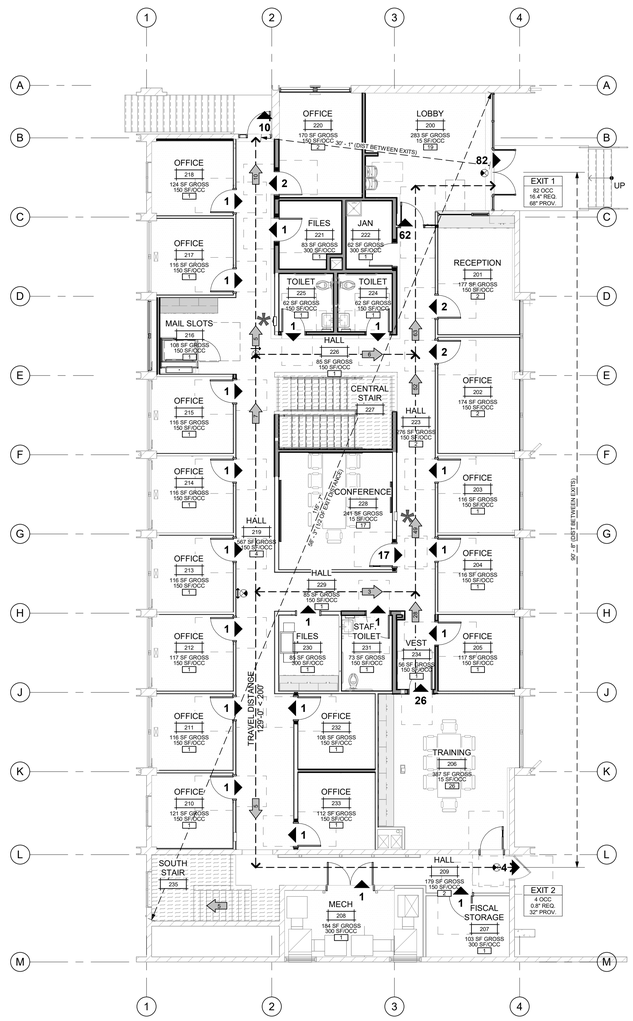


FIRST FLOOR OCCUPANT PLAN

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



SECOND FLOOR OCCUPANT PLAN

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

LEGEND

NOTE: REFER TO SHEETS A201 & A202 FOR WALL ASSEMBLY TAGS & FLOOR PLANS.

- TRAVEL DISTANCE
- NUMBER OF OCCUPANTS
- COMBINED NUMBER OF OCCUPANTS IN SPACE
- ILLUMINATED EXIT SIGN (WITH DIRECTIONAL ARROW)
- FIRE EXTINGUISHER
- CUMULATIVE OCCUPANT LOAD
- EXIT COMPONENT — DOOR
- OCCUPANT LOAD — 1 OCC
- OCCUPANT CALCULATION — 1" REQ.
- DOOR WIDTH — 1" PROV.
- EXISTING NON-RATED CMU WALL, UNPROTECTED OPENINGS — SEE DETAIL
- EXISTING NON-RATED CONCRETE RETAINING WALL — SEE DETAIL
- NON-RATED 2x WOOD STUD WALL — SEE DETAIL
- NON-RATED STAIR

CODE ANALYSIS

1. BUILDING DATA:

OCCUPANCY CLASSIFICATION: B

CONSTRUCTION TYPE: V-B (NOT SPRINKLERED)

BUILDING GROSS AREA:
FIRST FLOOR (BASEMENT): 5,427 SQ. FT.
SECOND FLOOR: 5,495 SQ. FT.
TOTAL: 10,922 SQ. FT.

2. ALLOWABLE BUILDING AREAS (CHAPTER 5):

ALLOWABLE BUILDING HEIGHT LIMITS: 40' (ABOVE GRADE PLANE)
(PER CBC TABLE 504.3)

ALLOWABLE NUMBER OF STORIES
ABOVE GRADE (PER CBC TABLE 504.4): 2 STORIES ABOVE GRADE

SINGLE-OCCUPANCY BLDG ALLOWABLE AREA DETERMINATION
(CBC 506.2.1, EQUATION 5-1)

ALLOWABLE AREA OF EACH STORY:
$A_a = A_t + (NS \times I_f)$
A_t: 9,000 SF (CBC TABLE 506.2)
NS: 9,000 SF (CBC TABLE 506.2)
I_f: 0.75 (CBC 506.3)
30' OR GREATER OPEN SPACE AT 100% OF BUILDING PERIMETER

FIRST FLOOR:
A_a = 9,000 + (9,000 x 0.75) = 15,750 SQ. FT.

SECOND FLOOR:
A_a = 9,000 + (9,000 x 0.75) = 15,750 SQ. FT.

3. CONSTRUCTION CLASSIFICATION (CBC CHAPTER 6):

REQUIRED BUILDING FIRE RESISTANCE PER CBC TABLE 601
(CONSTRUCTION TYPE V-B)

STRUCTURAL FRAME	0 HR.
BEARING WALLS EXTERIOR	0 HR.
BEARING WALLS INTERIOR	0 HR.
NON BEARING WALLS INTERIOR	0 HR.
FLOOR CONSTRUCTION	0 HR.
ROOF CONSTRUCTION	0 HR.

4. SHAFT ENCLOSURE RATINGS:

ELEVATOR: 1 HR. PER CBC 3002.1 & 713.4

5. STAIR WIDTH CALCULATIONS:

CENTRAL STAIR:
REQUIRED WIDTH: 108 TOTAL OCCUPANTS x .3"/OCC: 32.4"
STAIR WIDTH PROVIDED BETWEEN HANDRAILS: 48" OK

OCCUPANCY CALCULATIONS

NO.	NAME	AREA	LOAD FACTOR	OCCUPANT LOAD
FIRST FLOOR				
100	BREAK ROOM	482 SF	150 SF	4
101	OFFICE	119 SF	150 SF	1
102	OFFICE	105 SF	150 SF	1
103	OFFICE	105 SF	150 SF	1
104	OFFICE	105 SF	150 SF	1
105	OFFICE	105 SF	150 SF	1
106	OFFICE	105 SF	150 SF	1
107	OFFICE	105 SF	150 SF	1
108	COMPUTER	108 SF	300 SF	1
109	ELEC	158 SF	300 SF	1
110	STORAGE	189 SF	300 SF	1
111	PROCESSING	273 SF	150 SF	2
112	OFFICE	121 SF	150 SF	1
113	OFFICE	112 SF	150 SF	1
114	OFFICE	112 SF	150 SF	1
115	OFFICE	112 SF	150 SF	1
116	OFFICE	112 SF	150 SF	1
117	OFFICE	112 SF	150 SF	1
118	LIFT	110 SF	150 SF	1
119	OFFICE	112 SF	150 SF	1
120	OFFICE	125 SF	150 SF	1
121	HALL	452 SF	150 SF	4
122	JAN	62 SF	300 SF	1
123	TOILET	61 SF	150 SF	1
124	TOILET	61 SF	150 SF	1
125	TOILET	63 SF	150 SF	1
126	HALL	96 SF	150 SF	1
127	CENTRAL STAIR	143 SF		
128	HALL	399 SF	150 SF	3
130	CONF	325 SF	15 SF	22
131	OFFICE	155 SF	150 SF	2
132	EVIDENCE PROCESSING	163 SF	150 SF	2
133	SOUTH STAIR	180 SF		
134	STORAGE	88 SF	300 SF	1
				64
SECOND FLOOR				
200	LOBBY	283 SF	15 SF	19
201	RECEPTION	177 SF	150 SF	2
202	OFFICE	174 SF	150 SF	2
203	OFFICE	116 SF	150 SF	1
204	OFFICE	116 SF	150 SF	1
205	OFFICE	117 SF	150 SF	1
206	TRAINING	387 SF	15 SF	26
207	FISCAL STORAGE	103 SF	300 SF	1
208	MECH	184 SF	300 SF	1
209	HALL	179 SF	150 SF	2
210	OFFICE	121 SF	150 SF	1
211	OFFICE	116 SF	150 SF	1
212	OFFICE	117 SF	150 SF	1
213	OFFICE	116 SF	150 SF	1
214	OFFICE	116 SF	150 SF	1
215	OFFICE	116 SF	150 SF	1
216	MAIL SLOTS	108 SF	150 SF	1
217	OFFICE	116 SF	150 SF	1
218	OFFICE	124 SF	150 SF	1
219	HALL	567 SF	150 SF	4
220	OFFICE	170 SF	150 SF	2
221	FILES	83 SF	300 SF	1
222	JAN	62 SF	300 SF	1
223	HALL	276 SF	150 SF	2
224	TOILET	62 SF	150 SF	1
225	TOILET	62 SF	150 SF	1
226	HALL	85 SF	150 SF	1
227	CENTRAL STAIR	151 SF		
228	CONFERENCE	241 SF	15 SF	17
229	HALL	85 SF	150 SF	1
230	FILES	85 SF	300 SF	1
231	STAFF TOILET	73 SF	150 SF	1
232	OFFICE	108 SF	150 SF	1
233	OFFICE	112 SF	150 SF	1
234	VEST	56 SF	150 SF	1
235	SOUTH STAIR	125 SF		
				101
TOTAL BUILDING OCCUPANT LOAD:				165

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LICENSE STAMPS

LICENSED ARCHITECT STEVEN R. CARTER C - 34730 REN 5/31/25 STATE OF CALIFORNIA

KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE
EUREKA, CA 95501

SHEET TITLE

LIFE SAFETY PLANS

DRAWING STATUS
CONSTRUCTION DOCUMENTS

Drawn By	GCP
Date Issued	06.01.2023
Scale	1/8" = 1'-0"
Project No.	22-6507

SHEET No.

G111

Plot Date: 6/22/2023, 1:24:55 PM
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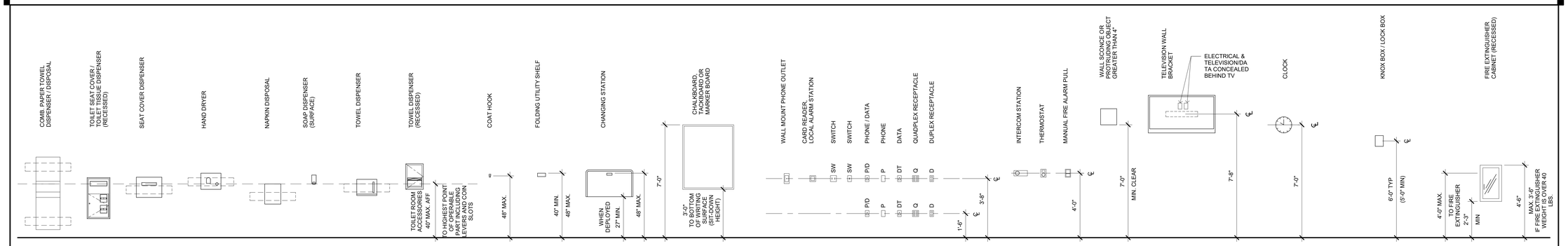


NOTE: AT NON-RECESSED FIXTURES, AND SPECIALTIES, SEE STRUCTURAL FOR TYP. BACKING DETAIL

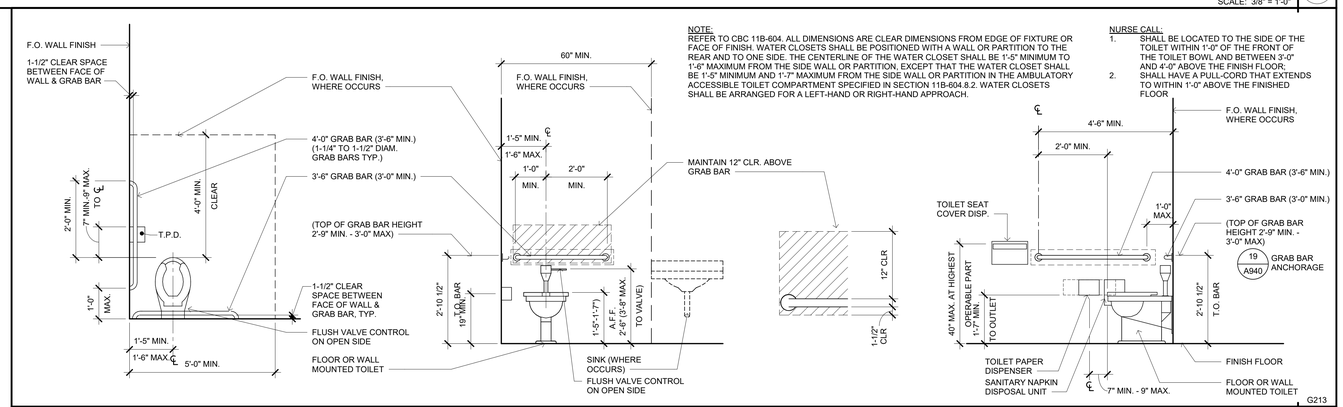
NOTE: THE CENTER OF 15-, 20-, AND 30-AMPERE RECEPTACLE OUTLETS SHALL BE INSTALLED 15" MINIMUM ABOVE THE FLOOR IN ALL ACCESSIBLE AREAS. CBC 11B-308.1

NOTE: ELECTRICAL SWITCHES AND CONTROLS WHICH ARE PROVIDED FOR THE USE OF ROOM OCCUPANTS SHALL BE MOUNTED 3 TO 4 FEET ABOVE THE FLOOR IN ALL ACCESSIBLE AREAS. CEC 380-8(C)

G213

TYPICAL MOUNTING HEIGHTS

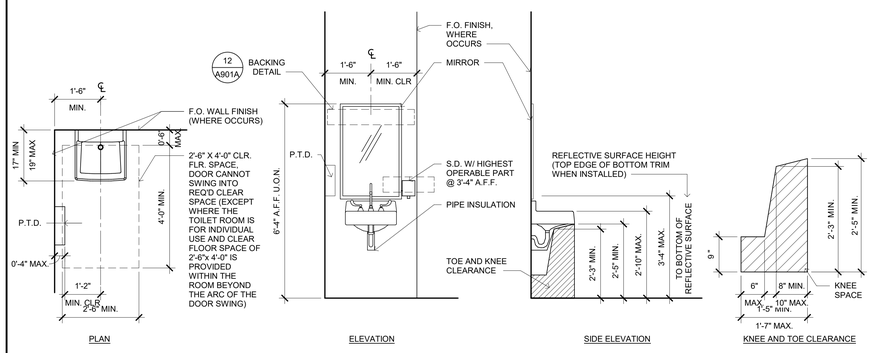
SCALE: 3/8" = 1'-0" — 1



G213

ACCESSIBLE TOILET

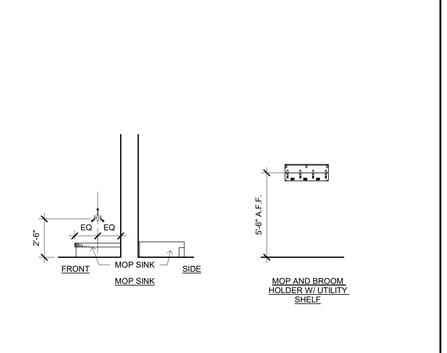
SCALE: 1/2" = 1'-0" — 2



G213

ACCESSIBLE LAVATORY

SCALE: 1/2" = 1'-0" — 7



G213

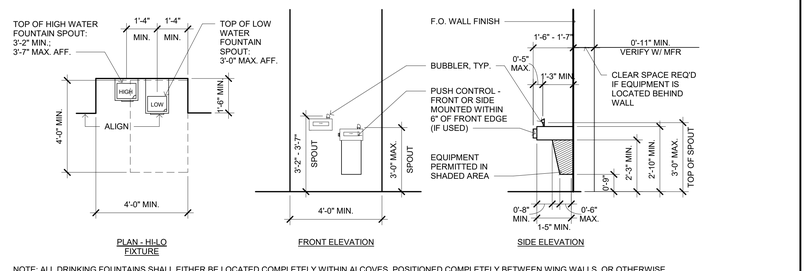
ENVIRONMENTAL SERVICES

SCALE: 1/4" = 1'-0" — 3

G213

CHANGES IN LEVEL

SCALE: 12" = 1'-0" — 12



NOTE: ALL DRINKING FOUNTAINS SHALL EITHER BE LOCATED COMPLETELY WITHIN ALCOVES, POSITIONED COMPLETELY BETWEEN WING WALLS, OR OTHERWISE POSITIONED SO AS NOT TO ENCROACH INTO PEDESTRIAN WAYS. WHEN USED, WING WALLS OR BARRIERS SHALL PROJECT HORIZONTALLY AT LEAST AS FAR AS THE DRINKING FOUNTAIN AND TO WITHIN 6 INCHES VERTICALLY FROM THE FLOOR OR GROUND SURFACE.

G213

DRINKING FOUNTAIN

SCALE: 3/8" = 1'-0" — 4

NICHOLS MELBURG & ROSSETTO ARCHITECTS + ENGINEERS
300 Knollcrest Drive
Redding, CA. 96002
(530) 222-3300 (530) 222-3538 Fax
www.nmrdesign.com

REVISIONS

If drawing is not 42" x 30" it is a reduced print

LICENSE STAMPS

LICENSED ARCHITECT STEVEN R. CANTON C - 34730 REN 5/31/25 STATE OF CALIFORNIA

KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE EUREKA, CA 95501

SHEET TITLE

TYPICAL ADA MOUNTING HEIGHTS & ADA CLEARNACES

DRAWING STATUS

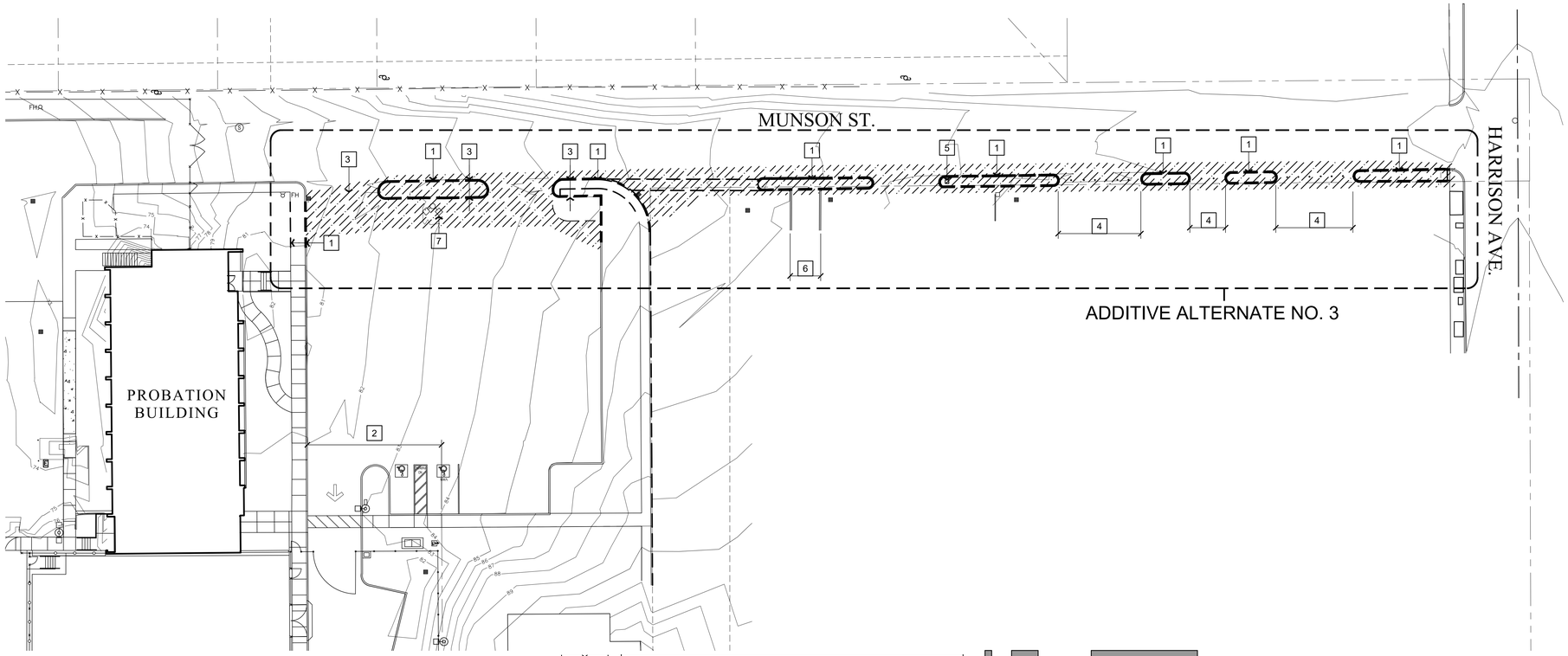
CONSTRUCTION DOCUMENTS

Drawn By	GCP
Date Issued	06.01.2023
Scale	As indicated
Project No.	22-6507

SHEET No.

G213

Plot Date: 6/2/2023 1:24:56 PM
File Name: /Modified 12x36/Humboldt County Probation/A_HCJ-PROBATION.rvt



DEMOLITION SITE PLAN

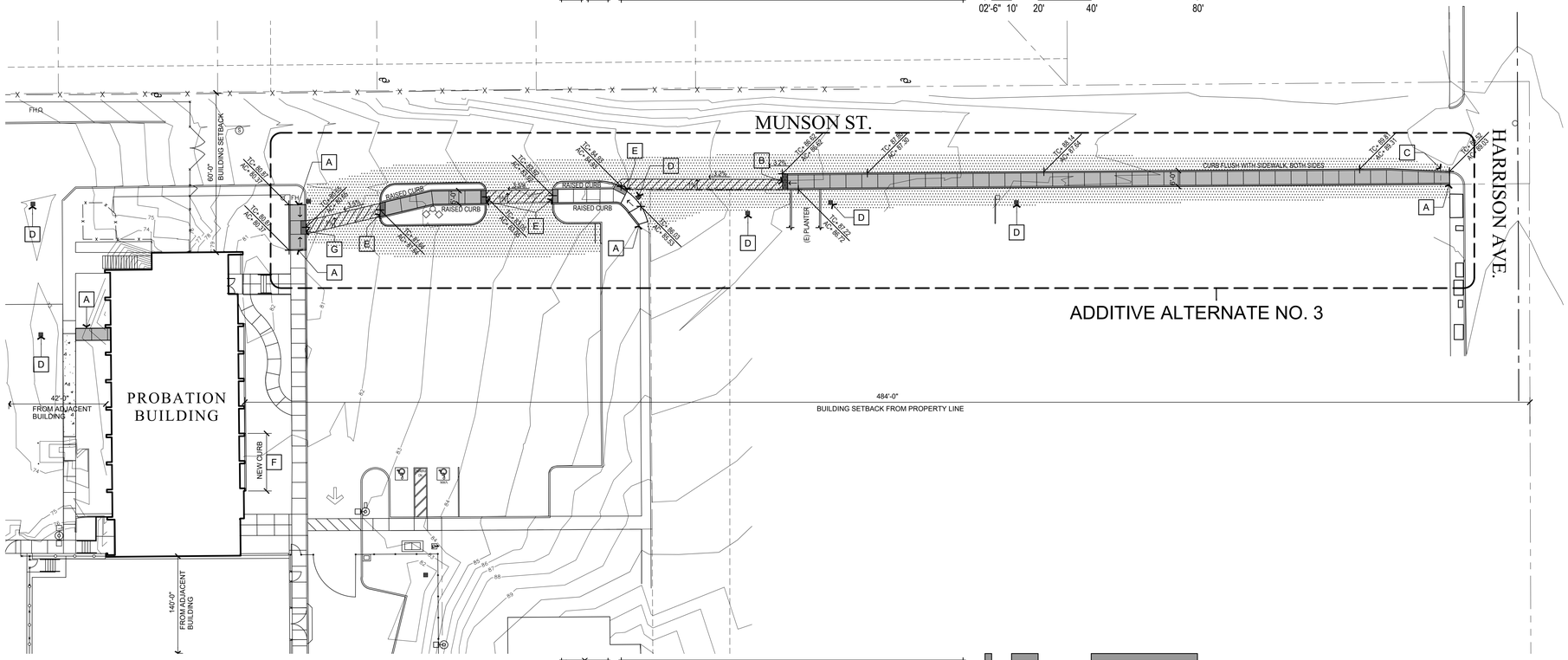
SCALE: 1" = 20'-0"

02'-6" 10' 20' 40' 80'

DEMOLITION SHEET NOTES

ALL ITEMS ARE NEW, UNLESS NOTED AS (E) OR EXISTING.

1. REMOVE CONCRETE SIDEWALK AND CURB, COMPLETE.
2. EXISTING PARKING AND AISLE TO REMAIN.
3. REMOVE EXISTING ASPHALT PAVING, PREPARE FOR NEW ASPHALT PAVING
4. REMOVE EXISTING BOLLARDS.
5. REMOVE EXISTING LIGHT.
6. EXISTING PLANTER TO REMAIN.
7. EXISTING LIGHT TO REMAIN



NEW WORK SITE PLAN

SCALE: 1" = 20'-0"

02'-6" 10' 20' 40' 80'

SITE PLAN SHEET NOTES

ALL ITEMS ARE NEW, UNLESS NOTED AS (E) OR EXISTING.

- A. INSTALL CONCRETE FLUSH TO EXISTING SIDEWALK.
- B. CAST IN PLACE TRUNCATED DOMES, WITH 6" CURB RAMP, SEE 3/A060
- C. INSTALL 3" PVC DRAIN THROUGH SIDE WALK.
- D. EXISTING STORM DRAIN INLET
- E. CAST IN PLACE TRUNCATED DOMES,
- F. HIGH CURB SEE DETAIL 7/A060
- G. CAST IN PLACE TRUNCATED DOMES, WITH 6" CURB RAMP, SEE 4/A060

SITE PLAN GENERAL NOTES

1. UNLESS OTHERWISE NOTED, INSTALL CONCRETE CURB 6" ABOVE EXISTING GRADE.
2. 5% MAX SLOPE IN THE PATH OF TRAVEL.
3. 2% MAX CROSS SLOPE AT ALL NEW SIDEWALKS/ PATH OF TRAVEL.

SITE PLAN LEGEND

ALL ITEMS ARE NEW, UNLESS NOTED AS (E) OR EXISTING.

- CONCRETE SIDEWALK SEE DETAIL 5/A060
- 4" ASPHALT CONCRETE PAVING OVER AGGREGATE BASE

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ARCHITECTS + ENGINEERS
300 Knollcrest Drive
Redding, CA. 96002
(530) 222-3300 (530) 222-3538 Fax
http://www.nmrdesign.com

REVISIONS

Delta	Description	Date

If drawing is not 42" x 30" it is a reduced print

LICENSE STAMPS

KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE EUREKA, CA 95501

SHEET TITLE

SITE PLAN

DRAWING STATUS

CONSTRUCTION DOCUMENTS

Drawn By	GCP
Date Issued	06.01.2023
Scale	1" = 20'-0"
Project No.	22-6507

SHEET No.

A010

Login Name: Amy P
Plot Date: June 02, 2023 - 2:06 pm
File Name: N:\Projects\6000-Dwg\6500\22-6507 Humboldt Co. Probation\10 Dwgs & Models\11 CAD\HDP-site.dwg
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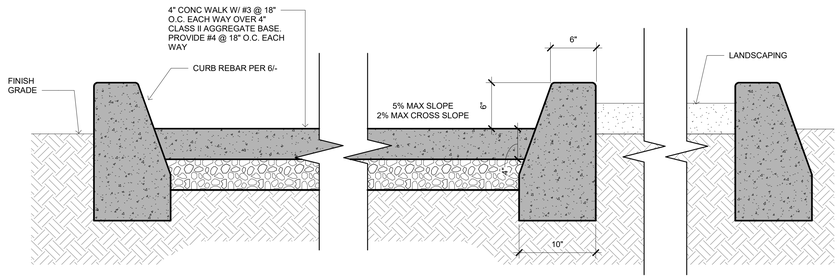
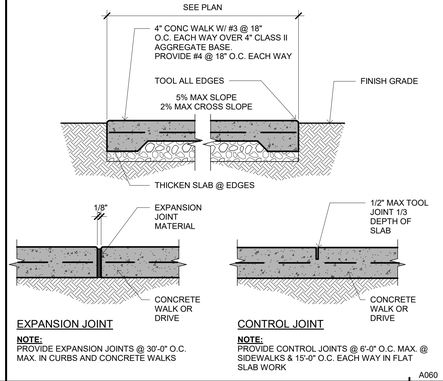


CONCRETE WALK SECTION

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

A060 9



EXPANSION JOINT

NOTE:
PROVIDE EXPANSION JOINTS @ 30'-0" O.C. MAX. IN CURBS AND CONCRETE WALKS

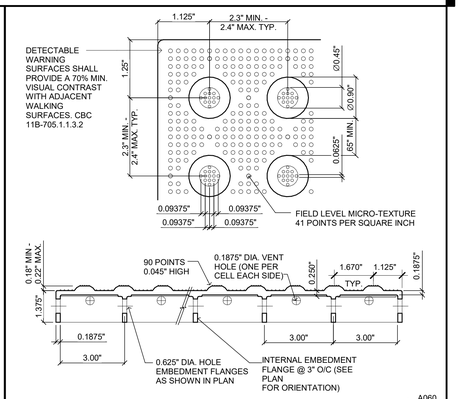
CONTROL JOINT

NOTE:
PROVIDE CONTROL JOINTS @ 6'-0" O.C. MAX. @ SIDEWALKS & 15'-0" O.C. EACH WAY IN FLAT SLAB WORK

CONCRETE WALK AND TYP. PAVING JOINTS

SCALE: 1" = 1'-0"

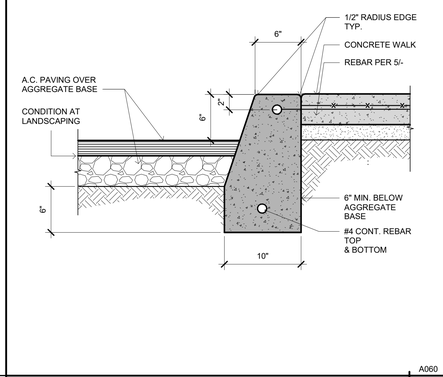
A060 5



DETECTABLE WARNING SURFACE

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

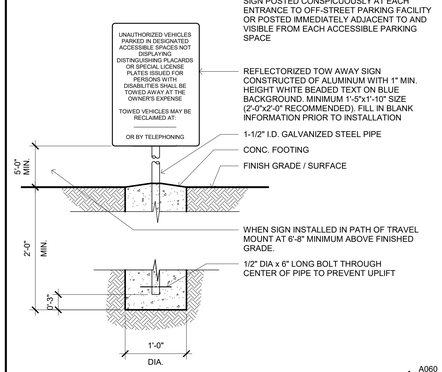
A060 1



CONCRETE CURB AT SIDEWALK

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

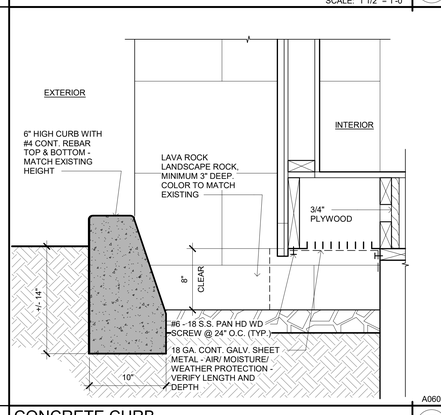
A060 6



ACCESSIBLE PARKING TOW AWAY SIGN

SCALE: 1" = 1'-0"

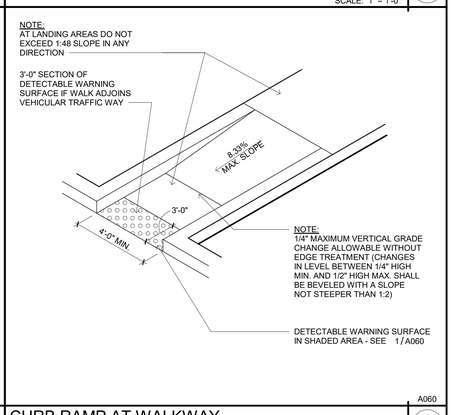
A060 2



CONCRETE CURB

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

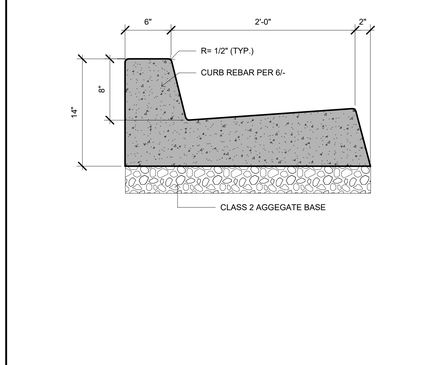
A060 7



CURB RAMP AT WALKWAY

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

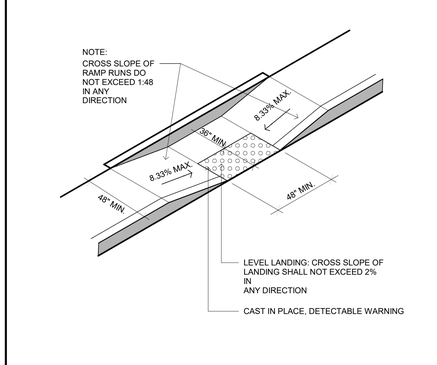
A060 3



CONCRETE CURB WITH GUTTER

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

A060 8



ACCESSIBLE CURB RAMP

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

A060 4

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Redding, CA. 96002
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REVISIONS

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LICENSE STAMPS

LICENSED ARCHITECT STEVEN R. CARTER C - 34730 REN 5/31/25 STATE OF CALIFORNIA

KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE
EUREKA, CA 95501

SHEET TITLE

SITE DETAILS

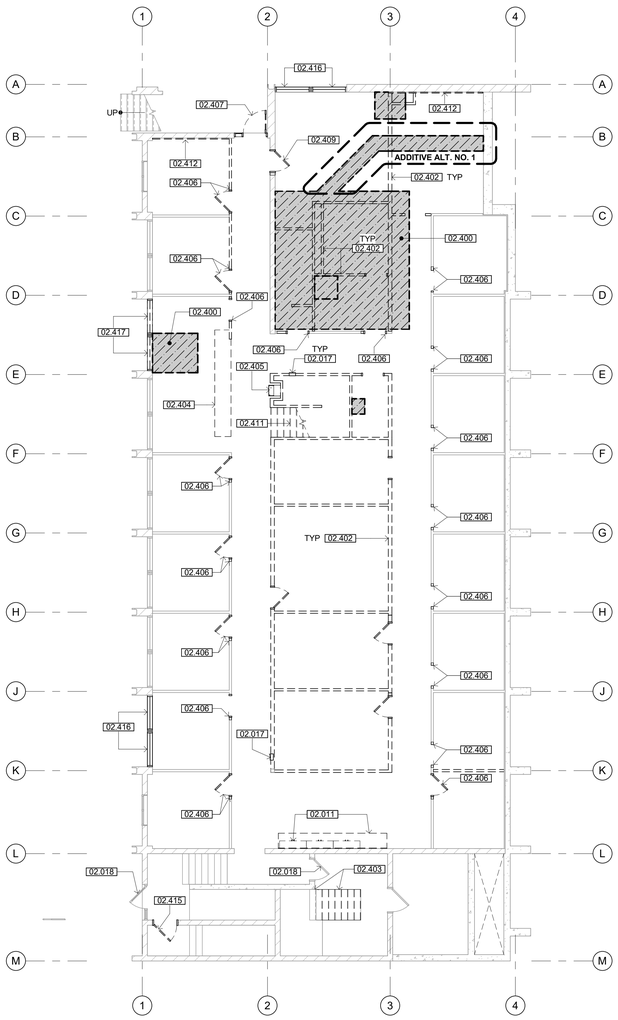
DRAWING STATUS
CONSTRUCTION DOCUMENTS

Drawn By	Author
Date Issued	06.01.2023
Scale	As indicated
Project No.	22-6507

SHEET No.

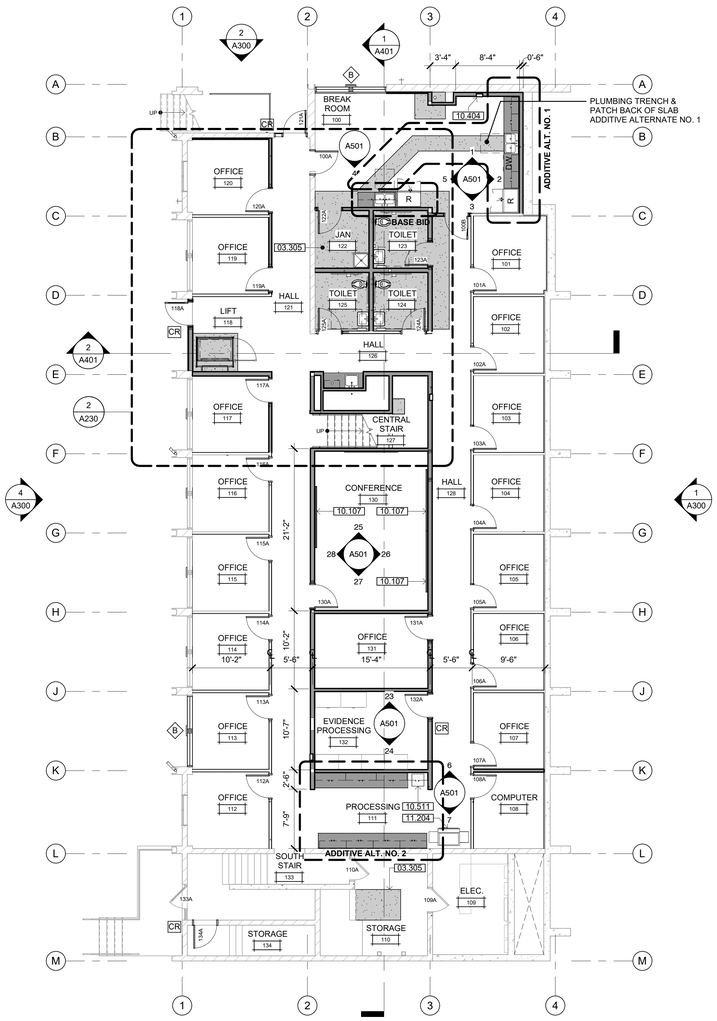
A060

Plot Date: 8/2/2023 1:24:13 PM
File Name: Modules\1 Docs\Humboldt County Probation\A_HCJ-PROBATION.rvt



DEMO FIRST FLOOR

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



NEW FIRST FLOOR PLAN

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

DEMO FLOOR PLAN LEGEND

- (E) DOOR TO BE REMOVED
- (E) COUNTERTOP OVER CASEWORK TO BE REMOVED
- (E) WALL TO BE REMOVED
- (E) FLOOR TO BE SAWCUT AND REMOVED
- (E) WINDOW TO REMAIN
- (E) COUNTERTOP OVER CASEWORK TO REMAIN
- (E) CMU WALL TO REMAIN
- (E) CONCRETE WALL TO REMAIN
- (E) WOOD STUD WALL TO REMAIN

DEMO FLOOR PLAN NOTES

A. DEMOLITION SHALL PROVIDE COMPLETE REMOVAL OF ALL ITEMS ASSOCIATED WITH INTENDED SCOPE OF NEW WORK, FINISHES, FIXTURES, & UTILITIES SHALL BE REMOVED TO EXTENTS NECESSARY TO PROVIDE ACCESS FOR NEW WORK.

B. SEE DEMOLITION PLUMBING & MECHANICAL PLANS FOR FULL EXTENT OF PLUMBING PIPING & DUCTWORK TO BE REMOVED.

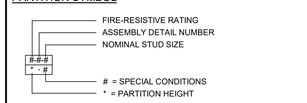
C. SEE DEMOLITION ELECTRICAL PLANS FOR FULL EXTENT OF ELECTRICAL WIRING, CONDUIT & FIXTURES TO BE REMOVED.

FLOOR PLAN LEGEND

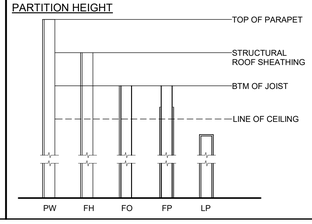
- (E) DOOR TO REMAIN
- (E) WINDOW TO REMAIN
- (E) COUNTERTOP OVER CASEWORK TO REMAIN
- DOOR WITH TAG - SEE SCHEDULE, SHEET A710
- (E) NON-RATED CMU WALL
- (E) NON-RATED CONCRETE WALL
- (E) NON-RATED WOOD STUD WALL
- NON-RATED WOOD STUD WALL - SEE DETAIL 1/A761
- NEW CONC. SLAB ON GRADE. SEE STRUCTURAL FOR REINFORCING AND TIE-IN TO EXISTING SLAB
- WINDOW WITH TAG - SEE SCHEDULE, SHEET A710
- COUNTERTOP OVER CASEWORK - DASHED LINE INDICATES WALL MOUNTED CASEWORK ABOVE - SEE INTERIOR ELEVATIONS.
- SINK / LAVATORY - SEE PLUMBING DRAWINGS
- TOILET - SEE PLUMBING DRAWINGS
- DRINKING FOUNTAIN - SEE PLUMBING DRAWINGS
- 60" DIA. CLEAR FLOOR SPACE
- 30" X 48" CLEAR FLOOR SPACE
- CR — CARD READER

WALL TYPE NOTES

PARTITION SYMBOL



PARTITION HEIGHT



PW = FULL HEIGHT WALL WITH PARAPET. SHEATHING FULL HEIGHT TO TOP OF PARAPET.

FH = FULL HEIGHT PARTITION TO STRUCTURAL ROOF SHEATHING WITH WALL SHEATHING EXTENDED TO UNDERSIDE OF STRUCTURAL ROOF SHEATHING.

FO = FULL HEIGHT PARTITION TO BOTTOM OF TRUSS WITH WALL SHEATHING EXTENDED TO UNDERSIDE OF STRUCTURAL ROOF SHEATHING.

FP = FULL HEIGHT PARTITION TO BOTTOM OF TRUSS WITH WALL SHEATHING WHERE OCCURS AND WALL GYP BOARD EXTENDED TO 6" MIN. ABOVE CEILING.

LP = LOW PARTITION BELOW CEILING (HEIGHT AS INDICATED ON PLAN).

SPECIAL CONDITIONS

1 = THERMAL INSULATION - FULL STUD HEIGHT.

2 = ACOUSTICAL ATTENUATION BATT INSULATION - FULL STUD HEIGHT.

SHEET NOTES

02.011 (E) CASEWORK TO REMAIN
02.017 (E) FIRE EXTINGUISHER & CABINET TO BE REMOVED & SAVED FOR RE-INSTALLATION IN NEW WALL FRAMING
02.018 (E) DOOR & FRAME TO REMAIN
02.400 SAWCUT AND REMOVE (E) SLAB ON GRADE TO APPROXIMATE EXTENTS AS SHOWN FOR INSTALLATION OF NEW WORK
02.402 (E) PARTITION TO BE REMOVED UP TO UPPER TOP PLATE. UPPER TOP PLATE & STEEL PLATE (WHERE OCCURS) ARE TO REMAIN. TYPICAL ALONG GRIDS 2 & 3 AT LEVEL 1
02.403 SAW CUT (E) CONCRETE STAIRS AT WALL LINE AND REMOVE
02.404 (E) CASEWORK TO BE REMOVED
02.405 (E) DRINKING FOUNTAIN TO BE REMOVED
02.406 PORTION OF (E) WALL FRAMING, HEADER, DOOR & FRAME (WHERE OCCURS ON PLAN) TO BE REMOVED
02.407 (E) ALUMINUM STOREFRONT DOOR & FRAME TO BE REMOVED
02.409 (E) DOOR AND FRAME TO BE REMOVED
02.411 (E) WOOD FRAMED STAIRS, STRINGERS, LANDINGS & HANDRAILS TO BE REMOVED
02.412 (E) WALL FURRING TO BE REMOVED
02.415 (E) DOOR TO BE REMOVED. (E) FRAME TO REMAIN, PREP FRAME FOR NEW DOOR
02.416 REMOVE (E) DAMAGED GLAZING AND PREP WINDOW FRAME FOR NEW GLAZING
02.417 REMOVE (E) WINDOW, PREP FOR INFILL FRAMING AND NEW DOOR OPENING
03.305 NEW CONCRETE SLAB - SEE STRUCTURAL FOR REINFORCEMENT & TIE IN TO EXISTING SLAB ON GRADE
10.107 8'-0" X 4'-0" MARKERBOARD - SEE DETAIL 17/A940 OWNER FURNISHED, CONTRACTOR INSTALLED.
10.404 SEMI-RECESSED FIRE EXTINGUISHER & CABINET - SEE DETAIL 18/A940
10.511 AFTERHOURS EVIDENCE DROP BOX - OWNER FURNISHED, CONTRACTOR INSTALLED
11.204 COPIER - OWNER FURNISHED, OWNER INSTALLED

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REVISIONS

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LICENSE STAMPS

LICENSED ARCHITECT STEVEN R. CARTER C - 34730 REN 5/31/25 STATE OF CALIFORNIA

KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE EUREKA, CA 95501

SHEET TITLE

FIRST FLOOR DEMOLITION & NEW WORK FLOOR PLANS

DRAWING STATUS

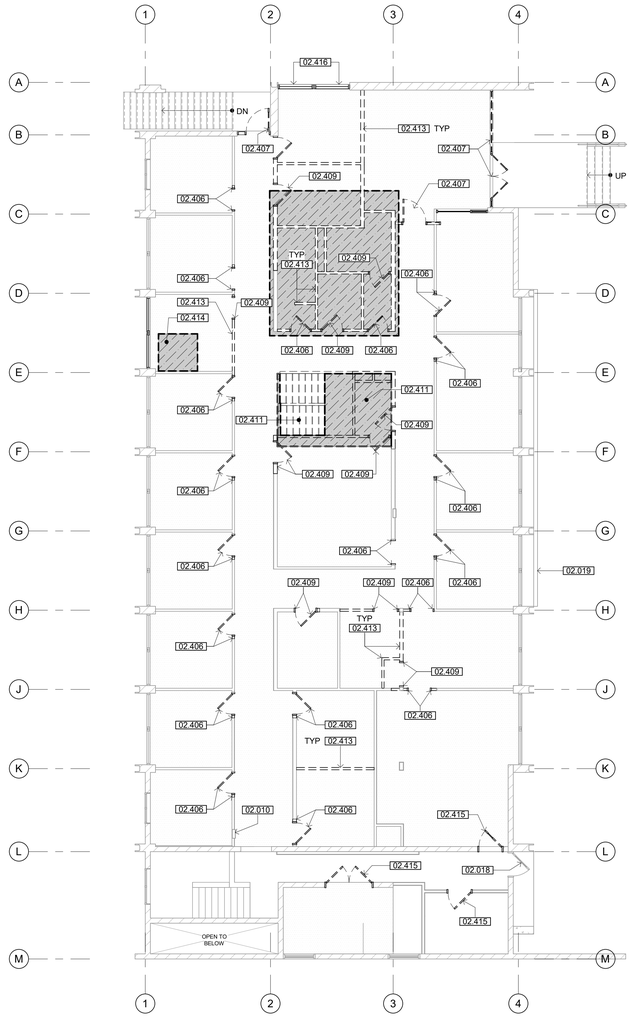
CONSTRUCTION DOCUMENTS

Drawn By	GCP/AMP
Date Issued	06.01.2023
Scale	As indicated
Project No.	22-6507

SHEET No.

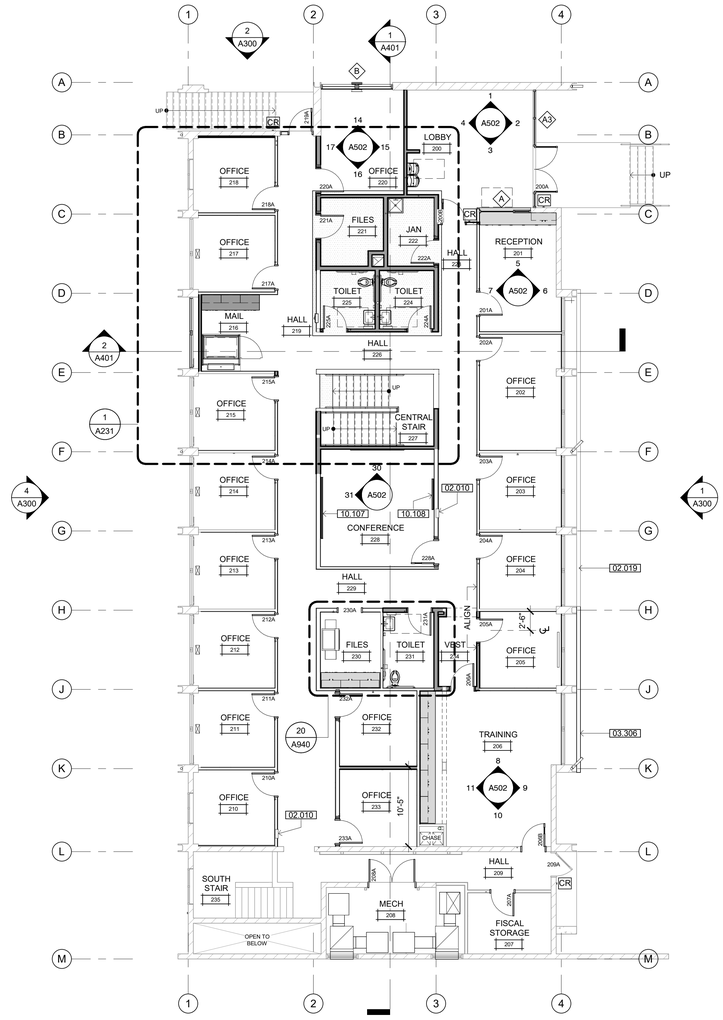
A201

Plot Date: 6/2/2023 1:04:14 PM
File Name: Archive\1 Docs\Humboldt County Probation\A_HC-PROBATION.rvt



DEMO SECOND FLOOR

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



NEW SECOND FLOOR PLAN

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

DEMO FLOOR PLAN LEGEND

- (E) DOOR TO BE REMOVED
- (E) COUNTERTOP OVER CASEWORK TO BE REMOVED
- (E) WALL TO BE REMOVED
- (E) FLOOR TO BE SAWCUT AND REMOVED
- (E) WINDOW TO REMAIN
- (E) COUNTERTOP OVER CASEWORK TO REMAIN
- (E) CMU WALL TO REMAIN
- (E) CONCRETE WALL TO REMAIN
- (E) WOOD STUD WALL TO REMAIN

DEMO FLOOR PLAN NOTES

A. DEMOLITION SHALL PROVIDE COMPLETE REMOVAL OF ALL ITEMS ASSOCIATED WITH INTENDED SCOPE OF NEW WORK, FINISHES, FIXTURES, & UTILITIES SHALL BE REMOVED TO EXTENTS NECESSARY TO PROVIDE ACCESS FOR NEW WORK.

B. SEE DEMOLITION PLUMBING & MECHANICAL PLANS FOR FULL EXTENT OF PLUMBING PIPING & DUCTWORK TO BE REMOVED.

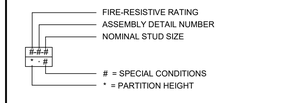
C. SEE DEMOLITION ELECTRICAL PLANS FOR FULL EXTENT OF ELECTRICAL WIRING, CONDUIT & FIXTURES TO BE REMOVED.

FLOOR PLAN LEGEND

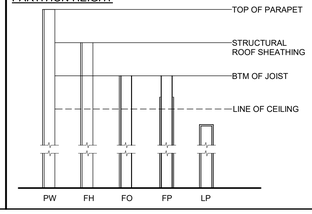
- (E) DOOR TO REMAIN
- (E) WINDOW TO REMAIN
- (E) COUNTERTOP OVER CASEWORK TO REMAIN
- DOOR WITH TAG - SEE SCHEDULE, SHEET A710
- (E) NON-RATED CMU WALL
- (E) NON-RATED CONCRETE WALL
- (E) NON-RATED WOOD STUD WALL
- NON-RATED WOOD STUD WALL - SEE DETAIL 1/A761
- NEW CONC. SLAB ON GRADE. SEE STRUCTURAL FOR REINFORCING AND TIE-IN TO EXISTING SLAB
- WINDOW WITH TAG - SEE SCHEDULE, SHEET A710
- COUNTERTOP OVER CASEWORK - DASHED LINE INDICATES WALL MOUNTED CASEWORK ABOVE - SEE INTERIOR ELEVATIONS.
- SINK / LAVATORY - SEE PLUMBING DRAWINGS
- TOILET - SEE PLUMBING DRAWINGS
- DRINKING FOUNTAIN - SEE PLUMBING DRAWINGS
- 60" DIA. CLEAR FLOOR SPACE
- 30" X 48" CLEAR FLOOR SPACE
- CR CARD READER

WALL TYPE NOTES

PARTITION SYMBOL



PARTITION HEIGHT



PW = FULL HEIGHT WALL WITH PARAPET. SHEATHING FULL HEIGHT TO TOP OF PARAPET.

FH = FULL HEIGHT PARTITION TO STRUCTURAL ROOF SHEATHING WITH WALL SHEATHING EXTENDED TO UNDERSIDE OF STRUCTURAL ROOF SHEATHING.

FO = FULL HEIGHT PARTITION TO BOTTOM OF TRUSS WITH WALL SHEATHING EXTENDED TO UNDERSIDE OF STRUCTURAL ROOF SHEATHING.

FP = FULL HEIGHT PARTITION TO BOTTOM OF TRUSS WITH WALL SHEATHING WHERE OCCURS AND WALL GYP BOARD EXTENDED TO 6" MIN. ABOVE CEILING.

LP = LOW PARTITION BELOW CEILING (HEIGHT AS INDICATED ON PLAN).

SPECIAL CONDITIONS

1 = THERMAL INSULATION - FULL STUD HEIGHT.

2 = ACOUSTICAL ATTENUATION BATT INSULATION - FULL STUD HEIGHT.

SHEET NOTES

02.010 (E) FIRE EXTINGUISHER AND CABINET TO REMAIN
02.018 (E) DOOR & FRAME TO REMAIN
02.019 (E) CONCRETE CURB TO REMAIN
02.406 PORTION OF (E) WALL FRAMING, HEADER, DOOR & FRAME (WHERE OCCURS ON PLAN) TO BE REMOVED
02.407 (E) ALUMINUM STOREFRONT DOOR & FRAME TO BE REMOVED
02.409 (E) DOOR AND FRAME TO BE REMOVED
02.411 (E) WOOD FRAMED STAIRS, STRINGERS, LANDINGS & HANDRAILS TO BE REMOVED
02.413 (E) PARTITION TO BE REMOVED
02.414 CUT OPENING IN FLOOR SHEATHING & CUT BACK FLOOR JOISTS TO INSTALL NEW VERTICAL LIFT, SEE STRUCTURAL FLOOR FRAMING PLAN
02.415 (E) DOOR TO BE REMOVED. (E) FRAME TO REMAIN, PREP FRAME FOR NEW DOOR
02.416 REMOVE (E) DAMAGED GLAZING AND PREP WINDOW FRAME FOR NEW GLAZING
03.306 NEW CONCRETE CURB - SEE DETAIL 7/A060
10.107 8'-0" X 4'-0" MARKERBOARD - SEE DETAIL 17/A940 OWNER FURNISHED, CONTRACTOR INSTALLED.
10.108 4'-0" X 4'-0" MARKERBOARD - SEE DETAIL 17/A940 OWNER FURNISHED, CONTRACTOR INSTALLED.

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REVISIONS

If drawing is not 42" x 30" it is a reduced print

LICENSE STAMPS

LICENSED ARCHITECT
STEVEN A. PARR
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REN 5/31/25
STATE OF CALIFORNIA

KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE EUREKA, CA 95501

SHEET TITLE

SECOND FLOOR DEMOLITION & NEW WORK FLOOR PLANS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

Drawn By	GCP/AMP
Date Issued	06.01.2023
Scale	As indicated
Project No.	22-6507

SHEET No.

A202

Plot Date: 6/2/2023 1:24:16 PM
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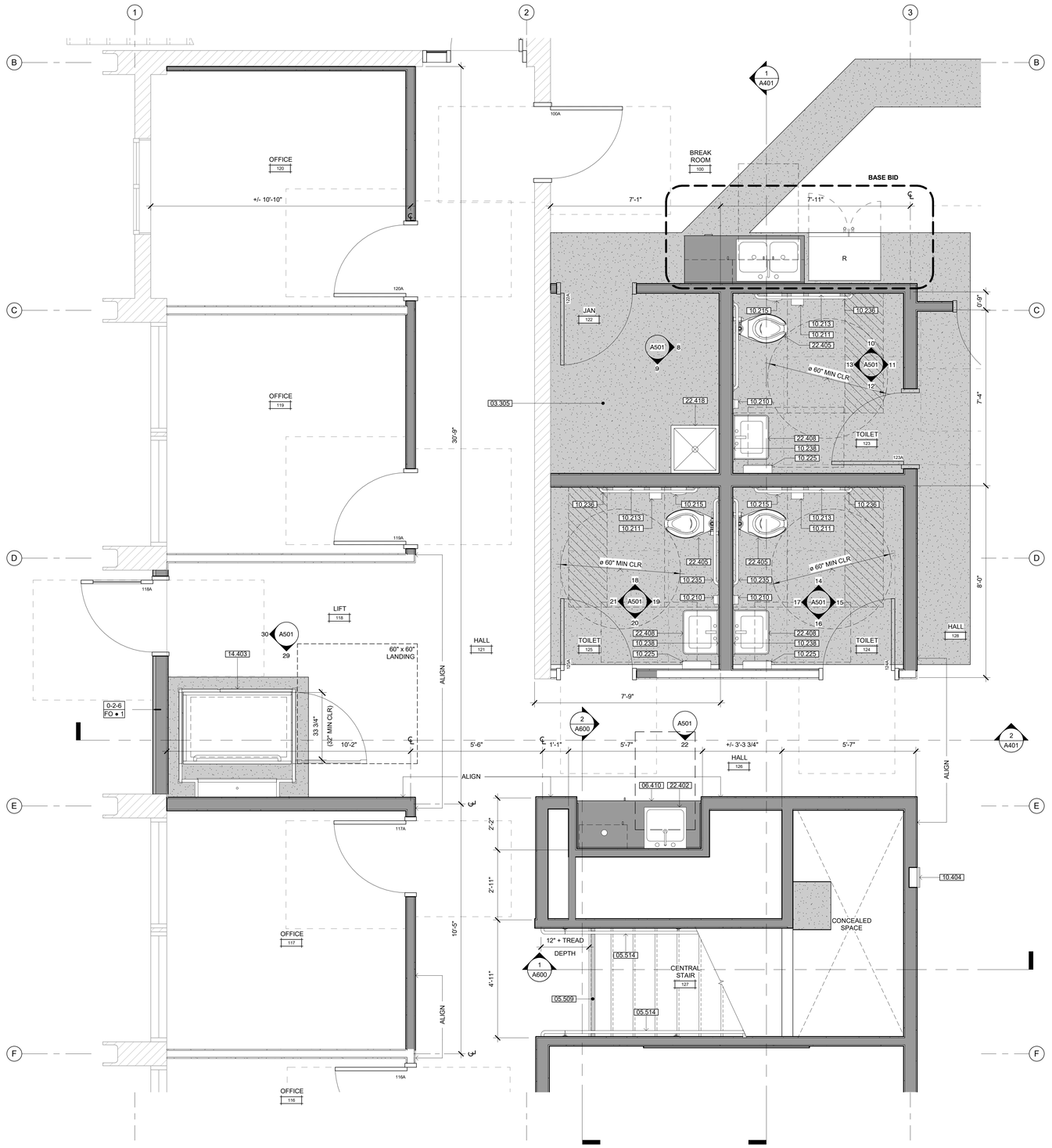

SHEET NOTES

03.305	NEW CONCRETE SLAB - SEE STRUCTURAL FOR REINFORCEMENT & TIE IN TO EXISTING SLAB ON GRADE
05.509	INTEGRAL 2" WIDE CONTRASTING STRIPE WITHIN 1" NOSE EDGE AT TOP AND BOTTOM TREADS OF EACH STAIR RUN-MINIMUM OF 70% COLOR CONTRAST
05.514	HANDRAIL ON WALL
06.410	SOLID SURFACE COUNTERTOP
10.210	SOAP DISPENSER
10.211	SURFACE MOUNTED TOILET TISSUE DISPENSER
10.213	SURFACE MOUNTED TOILET SEAT COVER DISPENSER
10.215	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL
10.225	SURFACE MOUNTED COMBINATION PAPER TOWEL DISPENSER AND WASTE RECEPTACLE
10.235	42" GRAB BAR - SEE DETAIL 19/A940
10.236	48" GRAB BAR - SEE DETAIL 19/A940
10.238	24" X 36" MIRROR
10.404	SEMI-RECESSED FIRE EXTINGUISHER & CABINET - SEE DETAIL 18/A940
14.403	VERTICAL PLATFORM LIFT
22.402	SINK
22.405	ACCESSIBLE TOILET - SEE DETAIL 2/G213
22.408	ACCESSIBLE LAVATORY - SEE DETAIL 7/G213
22.418	JANITOR SINK - SEE PLUMBING DRAWINGS

VERTICAL LIFT NOTES

1. THE LIFT FLOOR SHALL BE STABLE, FIRM & SLIP RESISTANT.
2. CHANGES IN LEVEL AT THE LIFT THRESHOLD SHALL COMPLY WITH DETAIL 12/G213
3. THE LIFT SHALL HAVE A MINIMUM OF 30" x 48" CLEAR FLOOR SPACE LOCATED WITHIN THE LIFT.
4. CONTROLS FOR THE LIFT SHALL BE WITHIN ACCESSIBLE REACH RANGES, 15" MINIMUM TO 48" MAXIMUM ABOVE FINISH FLOOR. A CLEAR FLOOR SPACE OF 30" x 48" SHALL BE PROVIDED AT THE CONTROLS.
5. OPERABLE PARTS SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAXIMUM.
6. LIFT SHALL HAVE LOW-ENERGY POWER OPERATED GATES AND COMPLY WITH CBC SECTION 11B-404.3 GATES SHALL REMAIN OPEN FOR A MINIMUM OF 20 SECONDS & SHALL HAVE A MINIMUM CLEAR WIDTH OF 32".

FLOOR PLAN LEGEND

- (E) DOOR TO REMAIN
- (E) WINDOW TO REMAIN
- COUNTERTOP OVER CASEWORK - DASHED LINE INDICATES WALL MOUNTED CASEWORK ABOVE - SEE INTERIOR ELEVATIONS.
- DOOR WITH TAG - SEE SCHEDULE, SHEET A710
- RECESSED FIRE EXTINGUISHER & CABINET
- SINK / LAVATORY - SEE PLUMBING DRAWINGS
- TOILET - SEE PLUMBING DRAWINGS
- DRINKING FOUNTAIN - SEE PLUMBING DRAWINGS

FIRST FLOOR ENLARGED PLAN

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

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PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE EUREKA, CA 95501

SHEET TITLE

FIRST FLOOR ENLARGED PLAN

DRAWING STATUS
CONSTRUCTION DOCUMENTS

Drawn By	GCP
Date Issued	06.01.2023
Scale	As indicated
Project No.	22-6507

SHEET No.

A230

Plot Date: 6/2/2023 1:24:18 PM
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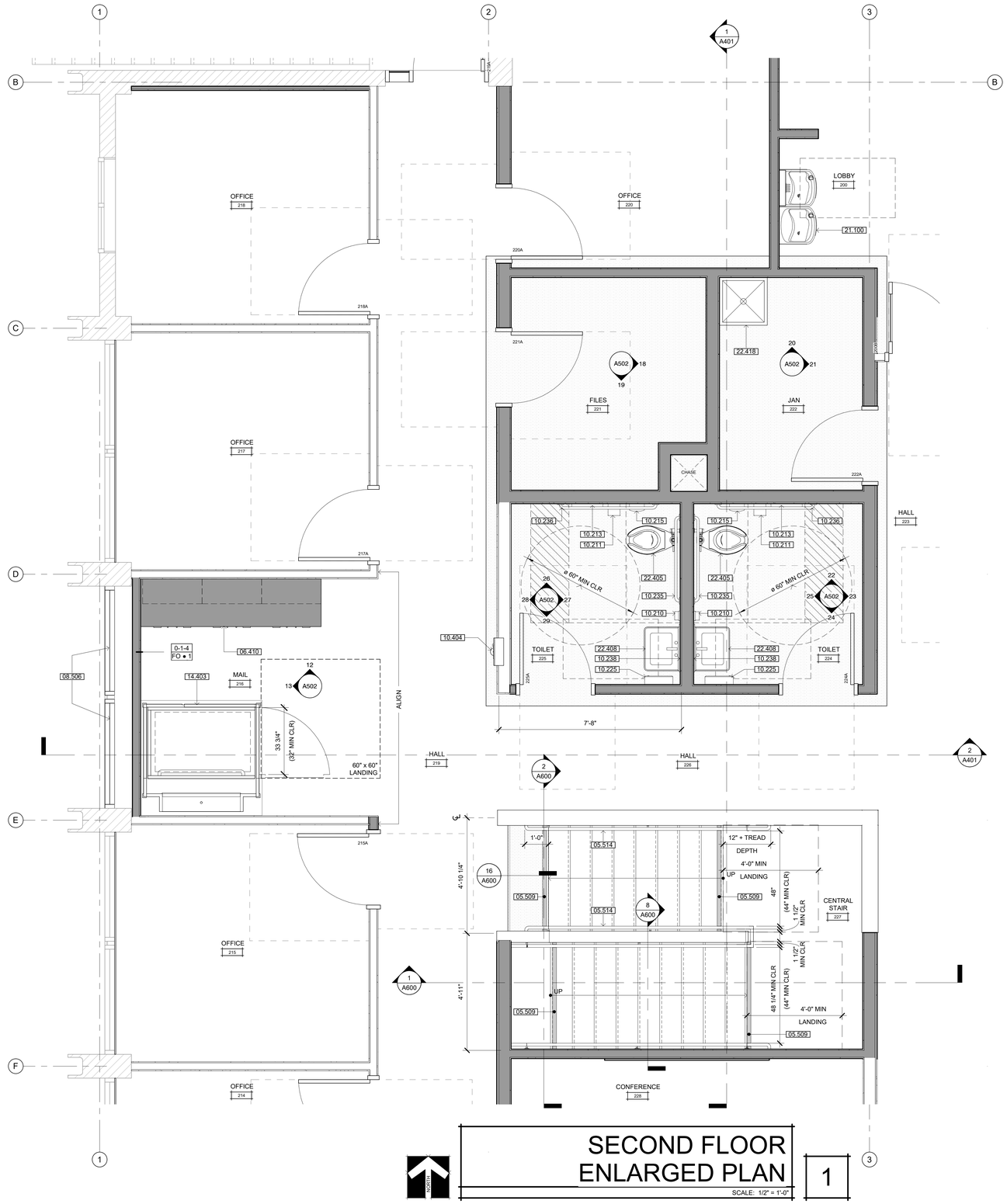

SECOND FLOOR ENLARGED PLAN

1

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

SHEET NOTES

05.509	INTEGRAL 2" WIDE CONTRASTING STRIPE WITHIN 1" NOSE EDGE AT TOP AND BOTTOM TREADS OF EACH STAIR RUN-MINIMUM OF 70% COLOR CONTRAST
05.514	HANDRAIL ON WALL
06.410	SOLID SURFACE COUNTERTOP
08.506	INSTALL OPAQUE WINDOW TINT FILM ON EXISTING WINDOW
10.210	SOAP DISPENSER
10.211	SURFACE MOUNTED TOILET TISSUE DISPENSER
10.213	SURFACE MOUNTED TOILET SEAT COVER DISPENSER
10.215	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL
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10.235	42" GRAB BAR - SEE DETAIL 19/A940
10.236	48" GRAB BAR - SEE DETAIL 19/A940
10.238	24" X 36" MIRROR
10.404	SEMI-RECESSED FIRE EXTINGUISHER & CABINET - SEE DETAIL 18/A940
14.403	VERTICAL PLATFORM LIFT
21.100	ACCESSIBLE DRINKING FOUNTAIN - SEE DETAIL 4/G213
22.405	ACCESSIBLE TOILET - SEE DETAIL 2/G213
22.408	ACCESSIBLE LAVATORY - SEE DETAIL 7/G213
22.418	JANITOR SINK - SEE PLUMBING DRAWINGS

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- (E) WINDOW TO REMAIN
- COUNTERTOP OVER CASEWORK - DASHED LINE INDICATES WALL MOUNTED CASEWORK ABOVE - SEE INTERIOR ELEVATIONS.
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- RECESSED FIRE EXTINGUISHER & CABINET
- SINK / LAVATORY - SEE PLUMBING DRAWINGS
- TOILET - SEE PLUMBING DRAWINGS
- DRINKING FOUNTAIN - SEE PLUMBING DRAWINGS

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KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE EUREKA, CA 95501

SHEET TITLE

SECOND FLOOR ENLARGED PLAN

DRAWING STATUS
CONSTRUCTION DOCUMENTS

Drawn By	GCP
Date Issued	06.01.2023
Scale	As indicated
Project No.	22-6507

SHEET No.

A231

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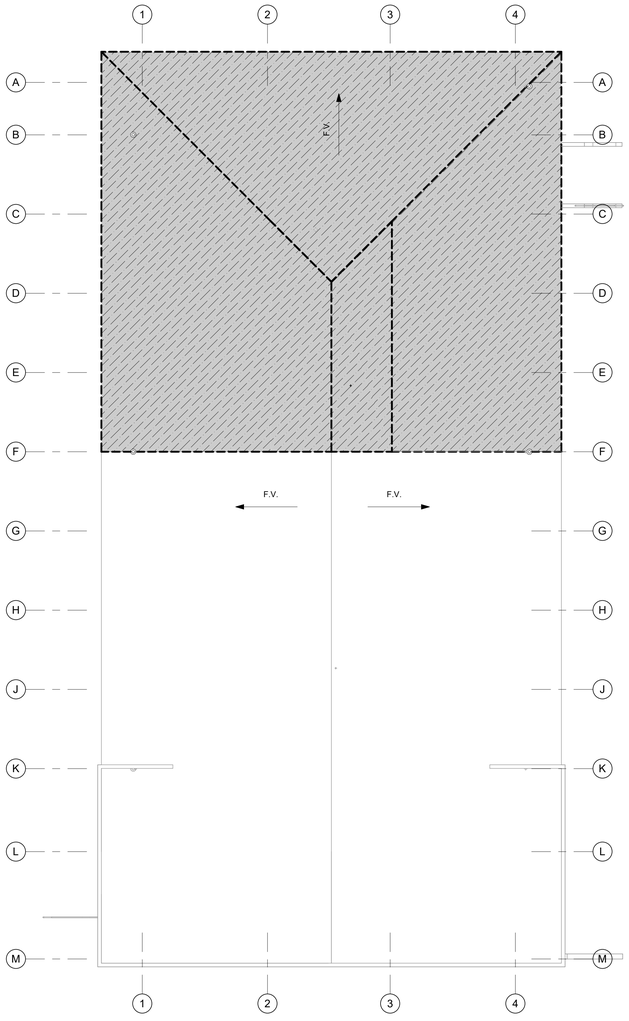
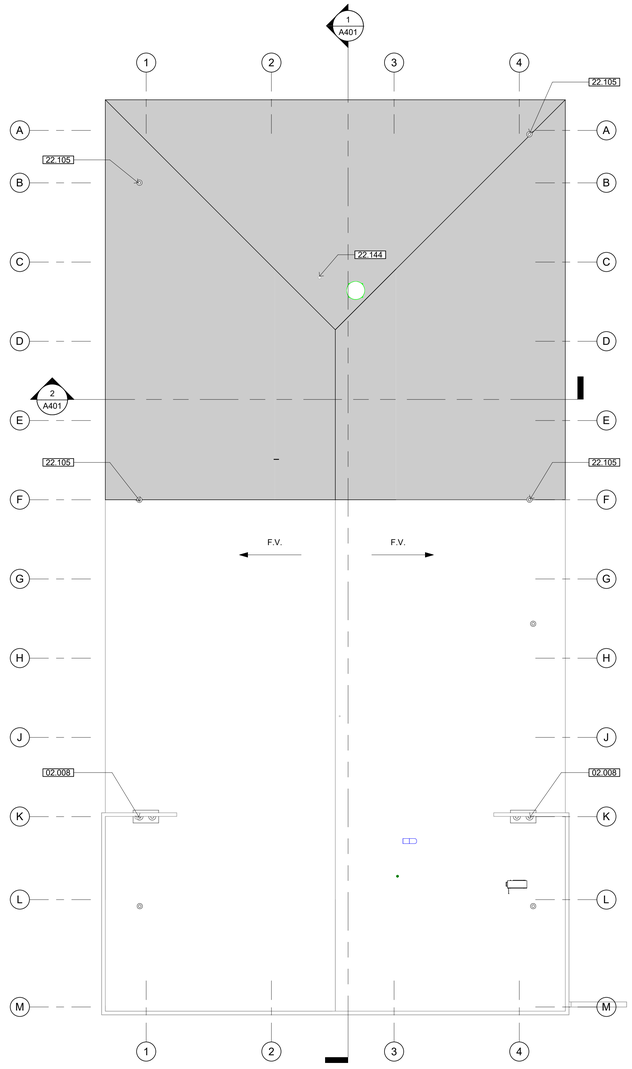


DEMO ROOF PLAN

NORTH

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



NEW ROOF PLAN

NORTH

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

SHEET NOTES

02.008 (E) ROOF DRAIN TO REMAIN
22.105 NEW ROOF DRAIN
22.144 PIPE VENT - SEE DETAILS 12 & 16/A761

DEMO ROOF PLAN LEGEND

(E) ROOFING TO BE REMOVED

(E) ROOFING TO REMAIN

DEMO ROOF PLAN NOTES

A. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISMANTLING & DISCONNECTION OF ANY MECHANICAL, ELECTRICAL & COMMUNICATION EQUIPMENT, CONDUIT, CONDENSATE LINES AND PIPING REQUIRED FOR INSTALLATION OF NEW ROOFING.

B. CONTRACTOR TO VERIFY ABANDONED ROOF PENETRATIONS AND CAP BELOW NEW ROOF AND/OR REMOVED PRIOR TO NEW ROOF INSTALLATION.

C. NOTIFY ARCHITECT IMMEDIATELY UPON THE DISCOVERY OF THE PRESENCE OF DRY ROT OR DETERIORATION OF THE ROOF SHEATHING OR FRAMING.

ROOF PLAN LEGEND

(E) ROOFING TO REMAIN

NEW PVC ROOF MEMBRANE - OWNER FURNISHED, CONTRACTOR INSTALLED

ROOF PLAN NOTES

A. CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION & RECONNECTION TO WORKING ORDER ANY MECHANICAL, ELECTRICAL & COMMUNICATION EQUIPMENT, CONDUIT, CONDENSATE LINES AND PIPING THAT WAS REQUIRED TO BE DISCONNECTED FOR INSTALLATION OF NEW ROOFING.

B. ALL PIPE PENETRATIONS NOT SHOWN. SEE MECHANICAL & PLUMBING DRAWINGS FOR LOCATION INFORMATION, SEE ROOF PIPE PENETRATION DETAIL 12 / A761.

C. HVAC CONDENSATE DRAIN PIPES NOT SHOWN. SEE MECHANICAL & PLUMBING DRAWINGS FOR REQUIREMENTS.

D. ROOF (RECOVER) BOARD SHALL BE FASTENED TO THE EXISTING ROOF DECK WITH FASTENERS IN QUANTITIES AND LOCATIONS AS REQUIRED TO ACHIEVE THE SPECIFIED WIND LIFT RATING AND TO RECEIVE THE FULL SPECIFIED MANUFACTURER'S WARRANTY.

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COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE
EUREKA, CA 95501

SHEET TITLE

DEMOLITION & NEW WORK ROOF PLAN

DRAWING STATUS
CONSTRUCTION DOCUMENTS

Drawn By	GCP/AMP
Date Issued	06.01.2023
Scale	As indicated
Project No.	22-6507

SHEET No.

A240

Plot Date: 6/2/2023 1:24:20 PM
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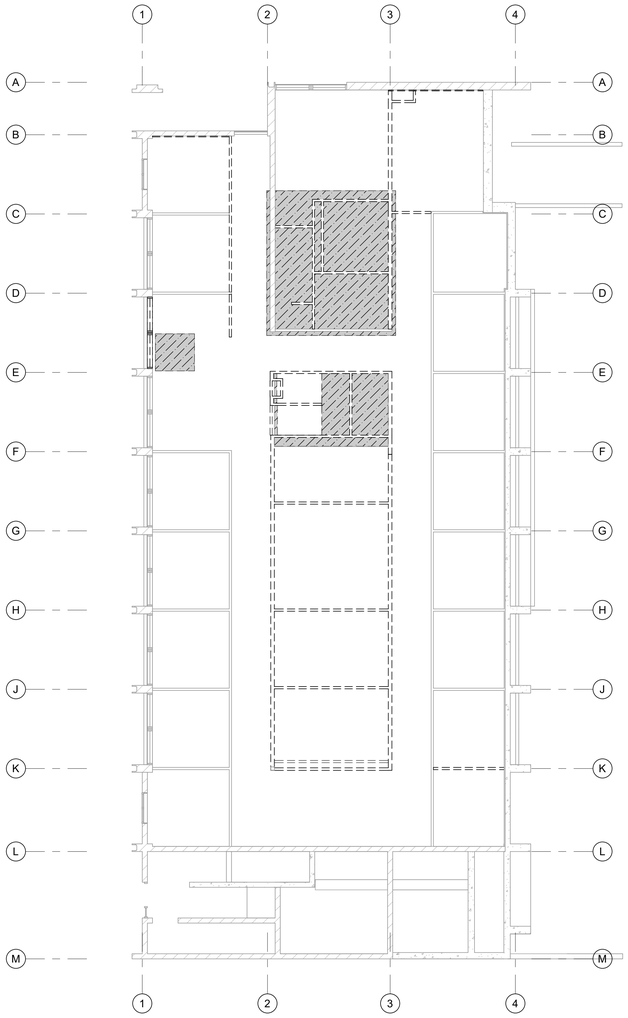
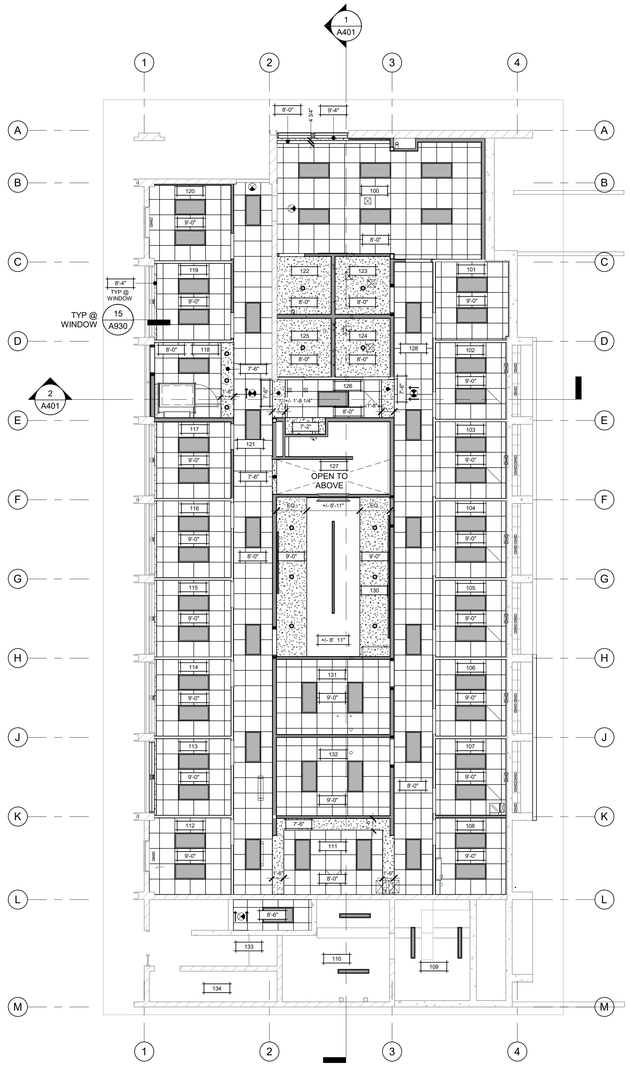


DEMO FIRST FLOOR RCP

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



NEW FIRST FLOOR RCP

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

DEMO RCP LEGEND

- LIGHT FIXTURE TO BE REMOVED
- EXHAUST REGISTER TO BE REMOVED
- RETURN AIR REGISTER TO BE REMOVED
- SUPPLY AIR DIFFUSER TO BE REMOVED
- 2' x 4' SUSPENDED ACOUSTIC CEILING TO BE REMOVED
- GYPSUM BOARD HARD CEILING TO BE REMOVED
- 2' x 2' GLUE-ON ACOUSTIC TILES TO BE REMOVED
- (E) CEILING TO REMAIN
- (E) 2' x 4' SURFACE MOUNTED LIGHT FIXTURE TO REMAIN
- (E) 1' x 4' SURFACE MOUNTED LIGHT FIXTURE TO REMAIN
- (E) 2' x 2' SURFACE MOUNTED LIGHT FIXTURE TO REMAIN
- (E) 2' x 2' RETURN OR SUPPLY AIR TO REMAIN
- (E) CEILING ACCESS TO REMAIN
- (E) CMU WALL TO REMAIN
- (E) CONCRETE WALL TO REMAIN
- (E) WOOD STUD WALL TO REMAIN

GENERAL RCP NOTES

A. MAINTAIN CEILING HEIGHTS AND LIGHTING LAYOUT PATTERNS SHOWN, UNLESS OTHERWISE APPROVED BY ARCHITECT. CONFLICTS CAUSED BY DUCTWORK, SPRINKLER PIPING, CONDUIT, AND/OR OTHER ITEMS OR FEATURES OF CONSTRUCTION SHALL NOT CONSTITUTE CAUSE FOR VARIANCE FROM CEILING HEIGHTS AND/OR LIGHTING LAYOUTS INDICATED IN THESE DRAWINGS. COORDINATE ALL WORK TO ACHIEVE HEIGHTS AND LAYOUTS AS INDICATED IN THESE DRAWINGS.

B. REFER TO MECHANICAL, FIRE PROTECTION, ELECTRICAL, SECURITY, AND AUDIOVISUAL DRAWINGS FOR ADDITIONAL CONSTRUCTION FEATURES, SYSTEMS, FIXTURES, AND EQPT. LOCATED IN, ON, AND ABOVE CEILINGS, TO THE EXTENT THAT THESE ITEMS ARE SHOWN ON REFLECTED CEILING PLANS, THEY ARE FOR GENERAL INFORMATION AND LAYOUT PURPOSES ONLY, AND DO NOT NECESSARILY REPRESENT ACTUAL SCOPE OR QUANTITIES REQUIRED FOR THE PROJECT. ALL QUANTITIES TO BE VERIFIED.

C. AT ACOUSTICAL TILE CEILINGS, ALL FIXTURES AND EQUIPMENT SHALL BE CENTERED WITHIN ACOUSTICAL CEILING TILES, IN BOTH DIRECTIONS.

D. SPRINKLER HEAD LOCATIONS SHALL RESULT IN A UNIFORM AND REPETITIVE PATTERN FOR EACH AREA, AND SHALL BE LOCATED SYMMETRICALLY WITH RESPECT TO WALLS, CEILING GRID PATTERNS, AND LIGHT FIXTURES. SPRINKLER HEADS IN ACOUSTICAL TILE CEILINGS SHALL BE LOCATED IN THE CENTERS OF THE CEILING TILES.

E. TYP. EXTERIOR SOFFIT HEIGHT IS AT UNDERSIDE OF STRUCTURAL FRAMING U.O.N.

RCP LEGEND

- (E) CMU WALL TO REMAIN
- (E) CONCRETE WALL TO REMAIN
- (E) WOOD STUD WALL TO REMAIN
- 2' x 2' SUSPENDED ACOUSTICAL TILE CEILING SYSTEM. CEILING GRID LAYOUT TO BE CENTERED BOTH DIRECTIONS IN EACH ROOM, WITH BORDER PANELS NO SMALLER THAN 4". SEE DETAIL 10/A761
- 5/8" GYPSUM BOARD CEILING. SEE DETAIL 9/A761
- 3" WIDE LINEAR WOOD PLANK CEILING SEE FINISH SCHEDULE FOR BASIS OF DESIGN
- +X'-X" INDICATES HEIGHT OF FINISHED CEILING OR SOFFIT (FROM REFERENCE FLOOR ELEVATION)
- 2'x4' LAY-IN LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
- 4', 8' OR 12' LONG SUSPENDED LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
- 6" DIAMETER RECESSED CAN LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
- 3" SQUARE RECESSED LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
- EXHAUST - SEE MECHANICAL DRAWINGS

Plot Date: 6/2/2023 1:24:21 PM
File Name: A:\04549 Humboldt County Probation\A_HCJ-PROBATION.rvt

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KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE
EUREKA, CA 95501

SHEET TITLE

DEMOLITION & NEW WORK FIRST FLOOR REFLECTED CEILING PLANS

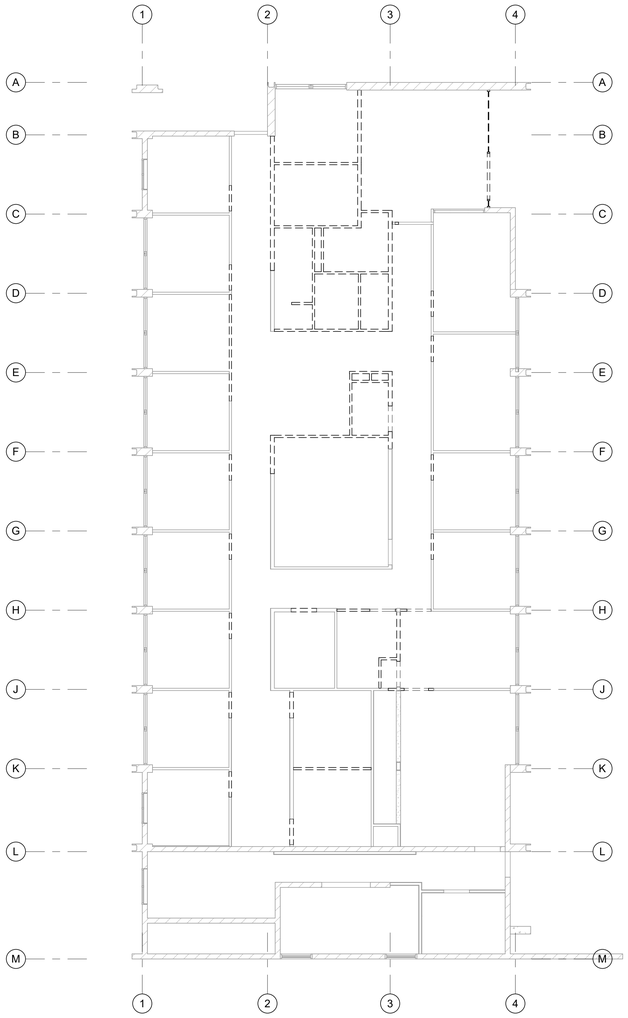
DRAWING STATUS

CONSTRUCTION DOCUMENTS

Drawn By	GCP/AMP
Date Issued	06.01.2023
Scale	As indicated
Project No.	22-6507

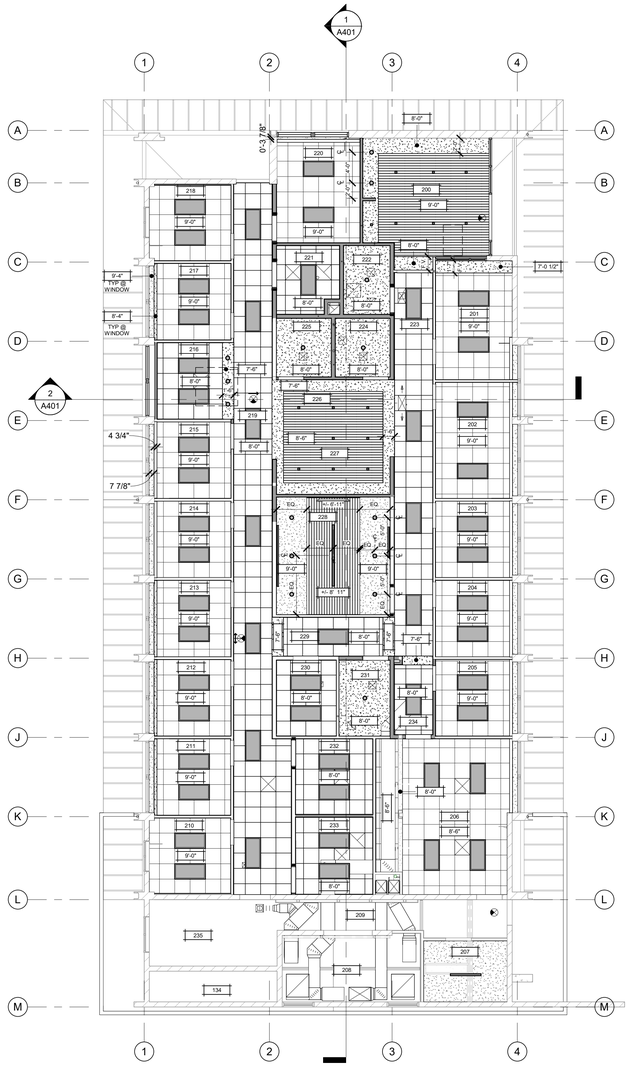
SHEET No.

A251



DEMO SECOND FLOOR RCP

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



NEW SECOND FLOOR RCP

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

DEMO RCP LEGEND

- LIGHT FIXTURE TO BE REMOVED
- EXHAUST REGISTER TO BE REMOVED
- RETURN AIR REGISTER TO BE REMOVED
- SUPPLY AIR DIFFUSER TO BE REMOVED
- 2' x 4' SUSPENDED ACOUSTIC CEILING TO BE REMOVED
- GYPSUM BOARD HARD CEILING TO BE REMOVED
- 2' x 2' GLUE-ON ACOUSTIC TILES TO BE REMOVED
- (E) CEILING TO REMAIN
- (E) 2' x 4' SURFACE MOUNTED LIGHT FIXTURE TO REMAIN
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- 3" SQUARE RECESSED LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
- EXHAUST - SEE MECHANICAL DRAWINGS

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COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE
EUREKA, CA 95501

SHEET TITLE

DEMOLITION & NEW WORK SECOND FLOOR REFLECTED CEILING PLANS

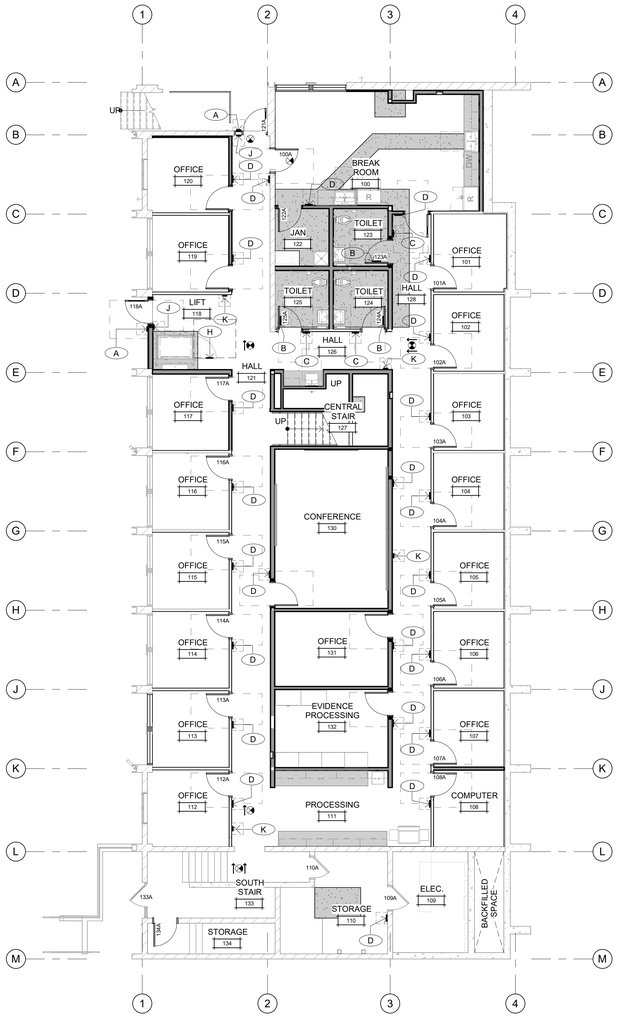
DRAWING STATUS

CONSTRUCTION DOCUMENTS

Drawn By	GCP/AMP
Date Issued	06.01.2023
Scale	As indicated
Project No.	22-6507

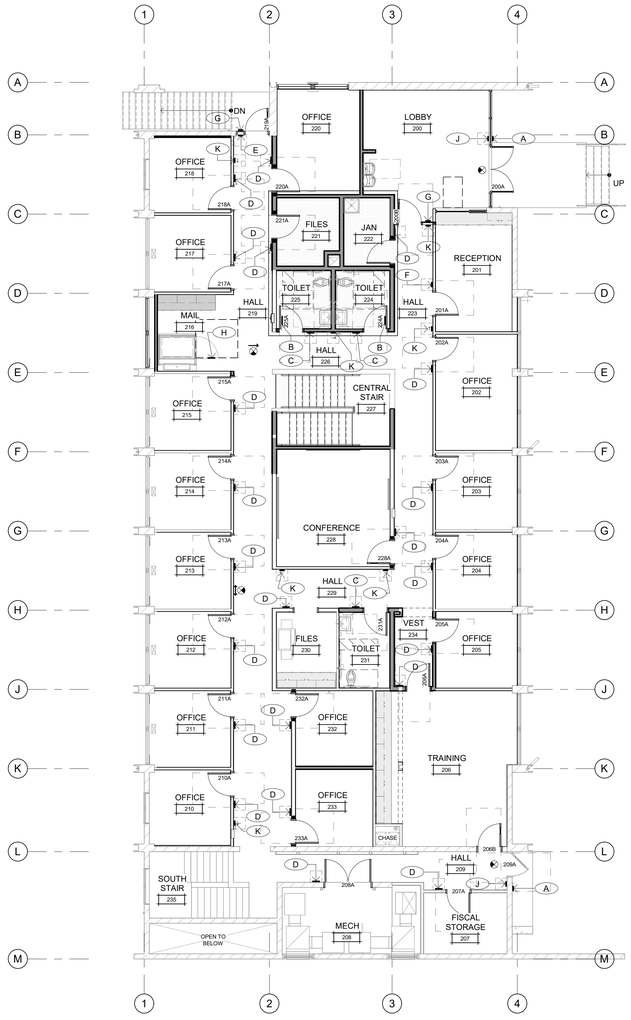
SHEET No.

A252



FIRST FLOOR SIGNAGE PLAN

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



SECOND FLOOR SIGNAGE PLAN

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

SIGNAGE PLAN

NOTE: SEE SHEET A960 FOR SIGN TYPE DETAILS

- (A) ACCESSIBLE ENTRANCE IDENTIFICATION
- (B) TOILET ROOM DOOR SYMBOL
- (C) TOILET ROOM
- (D) ROOM IDENTIFICATION - SEE DOOR SCHEDULE FOR TEXT
- (E) EXIT
- (F) EXIT ROUTE
- (G) BLANK BACKER FOR EXIT SIGN
- (H) "NO FREIGHT" VINYL SIGN
- (I) ACCESSIBLE EXIT
- (J) ACCESSIBLE EXIT ROUTE
- CEILING OR WALL MOUNTED ILLUMINATED EMERGENCY EGRESS SIGNAGE (HATCH INDICATES DIRECTION OF EGRESS)
- 18" SQUARE CLEAR FLOOR SPACE AT TACTILE SIGNS

NICHOLS MELBURG & ROSSETTO
ARCHITECTS + ENGINEERS
300 Knollcrest Drive
Redding, CA. 96002
(530) 222-3300 (530) 222-3538 Fax
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REVISIONS

If drawing is not 42" x 30" it is a reduced print

LICENSE STAMPS

LICENSED ARCHITECT
STEVEN R. CARTER
C - 34730
REN 5/31/25
STATE OF CALIFORNIA

KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE EUREKA, CA 95501

SHEET TITLE

SIGNAGE PLANS

DRAWING STATUS
CONSTRUCTION DOCUMENTS

Drawn By	GCP
Date Issued	06.01.2023
Scale	1/8" = 1'-0"
Project No.	22-6507

SHEET No.

A270

Plot Date: 6/2/2023 1:24:21 PM
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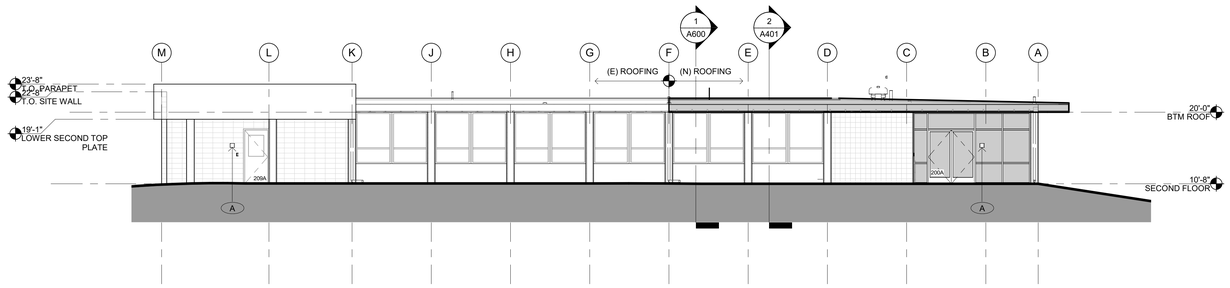
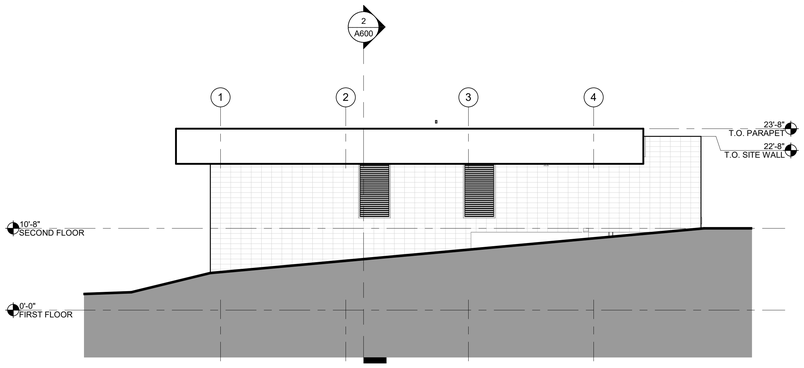
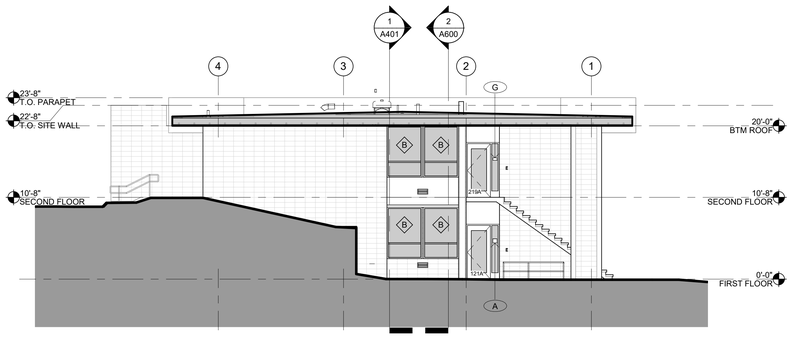


1 EAST ELEVATION

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



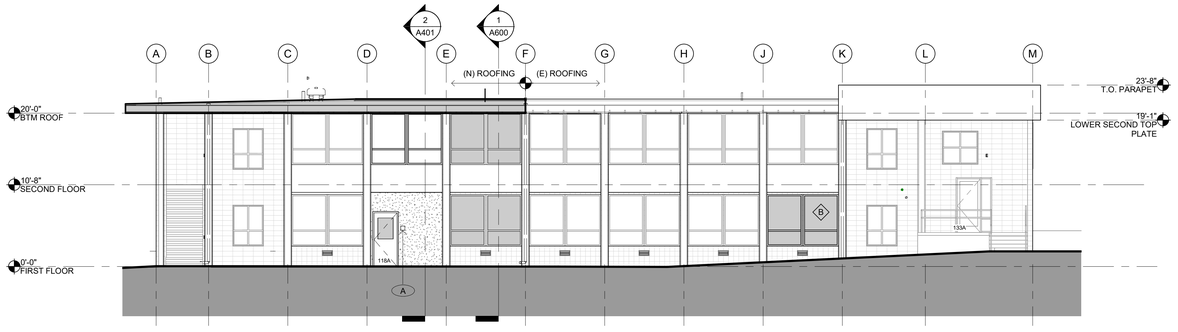


3 SOUTH ELEVATION

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

2 NORTH ELEVATION

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



4 WEST ELEVATION

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

SHEET NOTES

EXTERIOR ELEVATION LEGEND

X	SIGNAGE TAG - SEE SCHEDULE SHEET A960
##X	DOOR TAG - SEE SCHEDULE, SHEET A710
X	WINDOW TAG - SEE SCHEDULE, SHEET A710
	(E) CMU BLOCKING
	NEW CEMENT PLASTER SYSTEM PAINTED TO MATCH (E)

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C - 34730
REN 5/31/25
STATE OF CALIFORNIA

KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE EUREKA, CA 95501

SHEET TITLE

EXTERIOR ELEVATIONS

DRAWING STATUS
CONSTRUCTION DOCUMENTS

Drawn By	GCP
Date Issued	06.01.2023
Scale	1/8" = 1'-0"
Project No.	22-6507

SHEET No.

A300

Plot Date: 6/2/2023 1:24:27 PM
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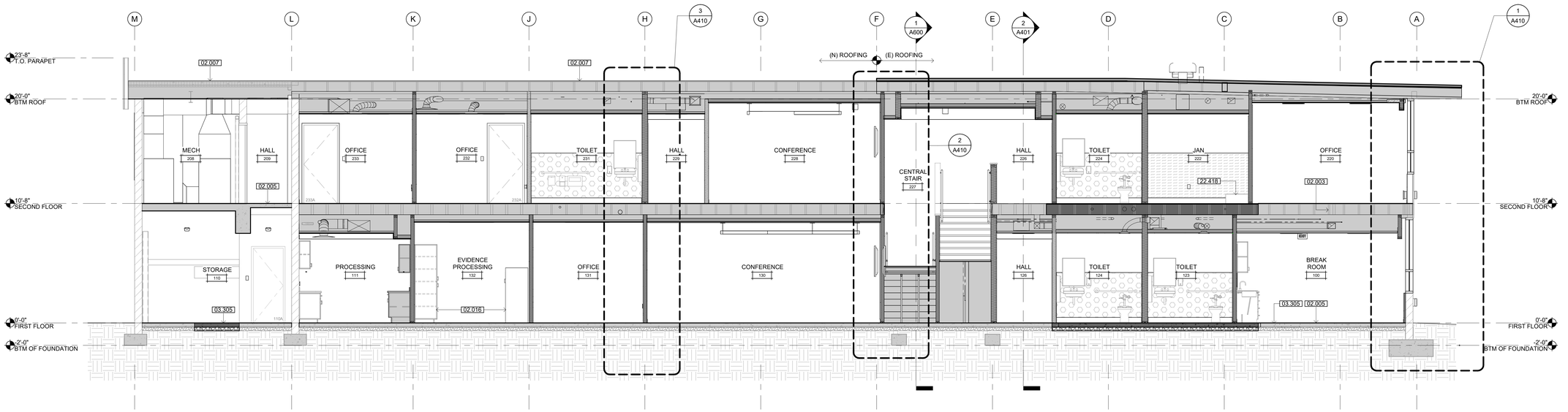
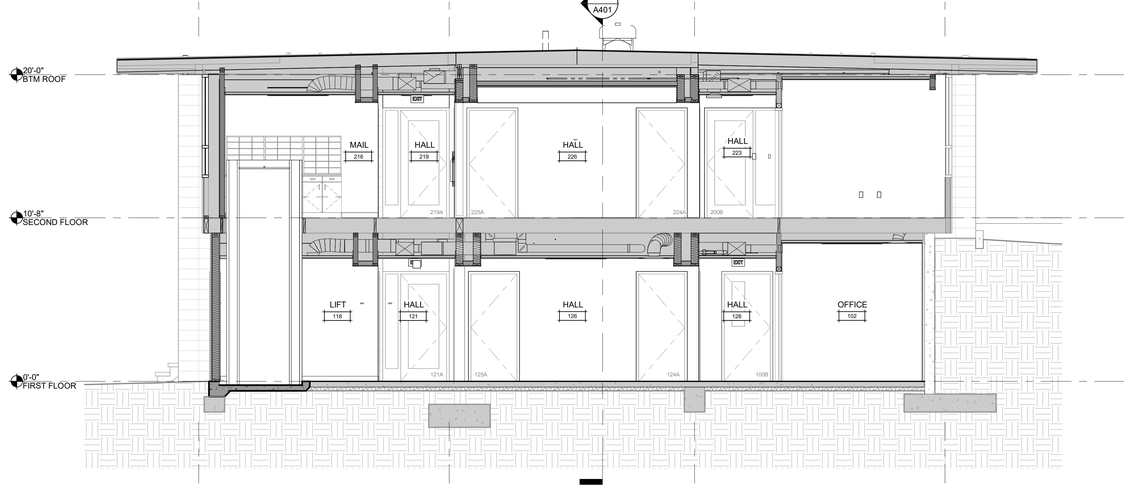


1 BUILDING SECTION

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



2 BUILDING SECTION

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

SHEET NOTES

02.003 (E) 2X FLOOR JOIST FRAMING
02.005 (E) CONCRETE FLOOR TO REMAIN THIS AREA
02.007 (E) ROOFING TO REMAIN
02.016 (E) CASEWORK TO BE INSTALLED - OWNER FURNISHED, CONTRACTOR INSTALLED
03.305 NEW CONCRETE SLAB - SEE STRUCTURAL FOR REINFORCEMENT & TIE IN TO EXISTING SLAB ON GRADE
22.418 JANITOR SINK - SEE PLUMBING DRAWINGS

BLDG SECTION LEGEND

NATIVE SOIL
NON-RATED CMU WALL
NON-RATED CONCRETE WALL
NON-RATED WOOD STUD WALL

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REN 5/31/25
STATE OF CALIFORNIA

KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE
EUREKA, CA 95501

SHEET TITLE

BUILDING SECTIONS

DRAWING STATUS
CONSTRUCTION DOCUMENTS

Drawn By	GCP
Date Issued	06.01.2023
Scale	As indicated
Project No.	22-6507

SHEET No.

A401

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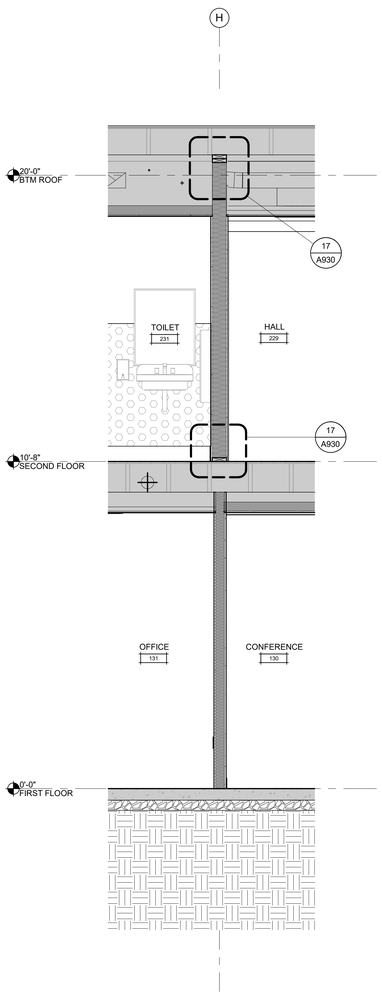
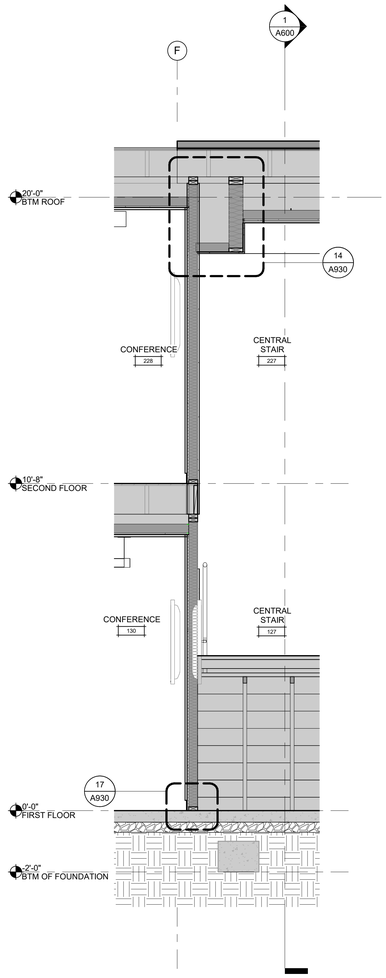


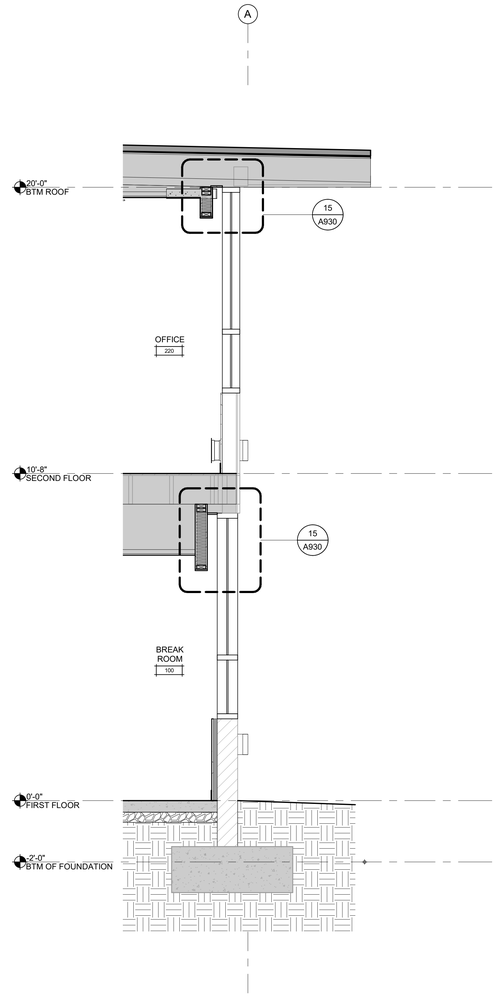
3 WALL SECTION

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



2 WALL SECTION

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



1 WALL SECTION

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

SHEET NOTES

BLDG SECTION LEGEND

- NATIVE SOIL
- NON-RATED CMU WALL
- NON-RATED CONCRETE WALL
- NON-RATED WOOD STUD WALL

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PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE
EUREKA, CA 95501

SHEET TITLE

WALL SECTIONS

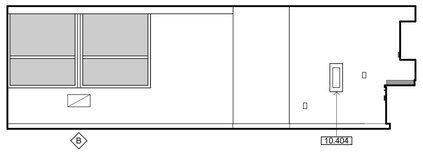
DRAWING STATUS
CONSTRUCTION DOCUMENTS

Drawn By	GCP
Date Issued	06.01.2023
Scale	As indicated
Project No.	22-6507

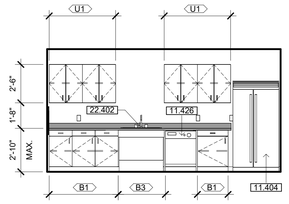
SHEET No.

A410

Plot Date: 6/2/2023 1:24:31 PM
File Name: Autodesk Docs://Humboldt County Probation/A_HCJ-PROBATION.rvt

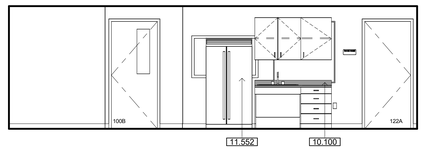


1 100 BREAK ROOM - NORTH
1/4" = 1'-0"



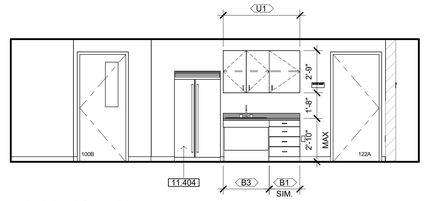
2 100 BREAK ROOM - EAST
1/4" = 1'-0"

ADDITIVE ALTERNATE NO. 1



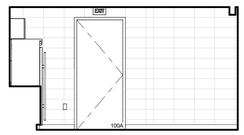
3 100 BREAK ROOM - SOUTH
1/4" = 1'-0"

ADDITIVE ALTERNATE NO. 1

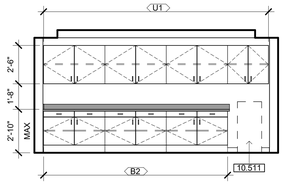


4 100 BREAK ROOM - SOUTH
1/4" = 1'-0"

BASE BID



5 100 BREAK ROOM - WEST
1/4" = 1'-0"



6 111 PROCESSING - NORTH
1/4" = 1'-0"

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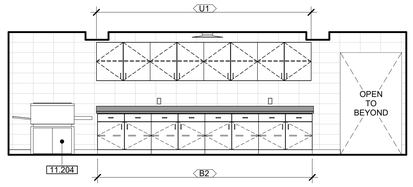
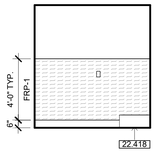
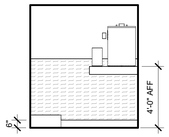


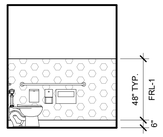
7 111 PROCESSING - SOUTH
1/4" = 1'-0"



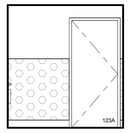
8 122 JANITOR - EAST
1/4" = 1'-0"



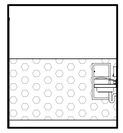
9 122 JANITOR - SOUTH
1/4" = 1'-0"



10 123 TOILET - NORTH
1/4" = 1'-0"

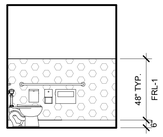


11 123 TOILET - EAST
1/4" = 1'-0"

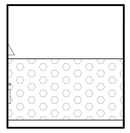


12 123 TOILET - SOUTH
1/4" = 1'-0"

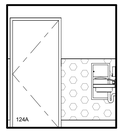
13 123 TOILET - WEST
1/4" = 1'-0"



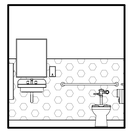
14 124 TOILET - NORTH
1/4" = 1'-0"



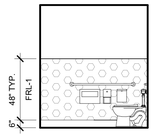
15 124 TOILET - EAST
1/4" = 1'-0"



16 124 TOILET - SOUTH
1/4" = 1'-0"

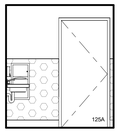


17 124 TOILET - WEST
1/4" = 1'-0"



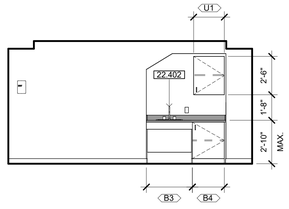
18 125 TOILET - NORTH
1/4" = 1'-0"

19 125 TOILET - EAST
1/4" = 1'-0"

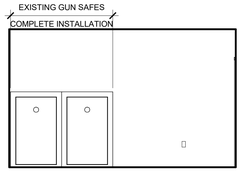


20 125 TOILET - SOUTH
1/4" = 1'-0"

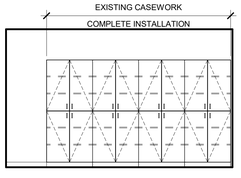
21 125 TOILET - WEST
1/4" = 1'-0"



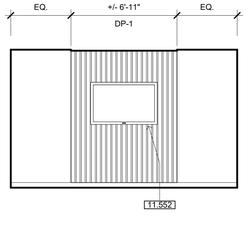
22 126 HALL - SOUTH
1/4" = 1'-0"



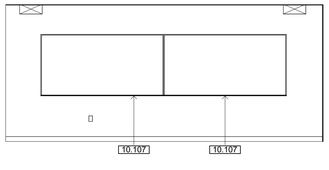
23 132 EVIDENCE PROCESSING - NORTH
1/4" = 1'-0"



24 132 EVIDENCE PROCESSING - SOUTH
1/4" = 1'-0"

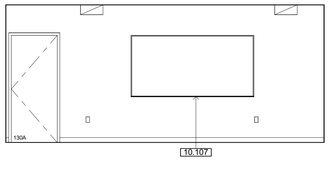


25 130 CONFERENCE - NORTH
1/4" = 1'-0"

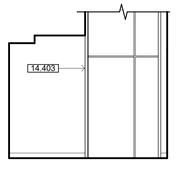


26 130 CONFERENCE - EAST
1/4" = 1'-0"

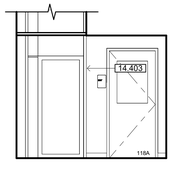
27 130 CONFERENCE - SOUTH
1/4" = 1'-0"



28 130 CONFERENCE - WEST
1/4" = 1'-0"



29 118 LIFT - SOUTH
1/4" = 1'-0"



30 118 LIFT - WEST
1/4" = 1'-0"

SHEET NOTES

10.100 4'-0" X 4'-0" BULLETIN BOARD - SEE DETAIL 17/A940 SIM
10.107 8'-0" X 4'-0" MARKERBOARD - SEE DETAIL 17/A940 OWNER FURNISHED, CONTRACTOR INSTALLED.
10.404 SEMI-RECESSED FIRE EXTINGUISHER & CABINET - SEE DETAIL 18/A940
10.511 AFTERHOURS EVIDENCE DROP BOX - OWNER FURNISHED, CONTRACTOR INSTALLED
11.204 COPIER - OWNER FURNISHED, OWNER INSTALLED
11.404 REFRIGERATOR - OWNER FURNISHED, OWNER INSTALLED
11.426 DISHWASHER - OWNER FURNISHED, OWNER INSTALLED
11.552 WALL MOUNTED TELEVISION - OWNER FURNISHED, CONTRACTOR INSTALLED
14.403 VERTICAL PLATFORM LIFT
22.402 SINK
22.418 JANITOR SINK - SEE PLUMBING DRAWINGS

INTERIOR ELEVATION GENERAL NOTES

A. GENERAL CONTRACTOR TO PROVIDE STRUCTURAL SUPPORT, BACKING AND/OR METAL REINFORCEMENT IN STUD WALLS AT ALL CASEWORK, CABINETS, SHELVING, EQUIPMENT ETC. REFER TO & FOR TYPICAL BACKING SCHEDULE AND TYPICAL MOUNTING HEIGHTS AND ARRANGEMENTS OF COMMON SPECIALTY ITEMS INCLUDING SHOWERS AND TOILET ROOMS.

B. SEE SHEET G213 FOR TYP. MOUNTING HEIGHTS.

C. SEE MECHANICAL, ELECTRICAL & LOW VOLTAGE DRAWINGS FOR EXTENT AND LOCATION OF ADDITIONAL WALL MOUNTED ITEMS SUCH AS CARD READERS, THERMOSTATS, SWITCHES, OUTLETS, CLOCKS, NURSECALL LIGHTS, FIRE ALARM, ETC. LOCATE ALL OUTLETS, SWITCHES, EQUIP., RECEPTACLE BOXES & OTHER SIMILAR RELATED ITEMS FOR OWNER'S FINAL APPROVAL PRIOR TO CONDUIT/PIPE INSTALLATION.

D. CONTRACTOR TO COORDINATE LOCATION OF CONTRACTOR OR OWNER FURNISHED ITEMS.

E. REFER TO FINISH SCHEDULE AND SPECIFICATIONS FOR SPECIFIC FINISH MATERIAL.

F. ALL VERTICAL DIMENSIONS ARE FROM FINISHED FLOOR, U.O.N.

G. ALL RECESSED SPECIALTIES SHOWN ON ELEVATIONS THAT ARE LOCATED IN FIRE RATED WALLS ARE TO BE 5-SIDED WITH 5/8" TYPE 'X' GYP BOARD SIMILAR TO

H. WHERE OUTLETS, MONITORS AND LIGHT SWITCHES ARE NOT DIMENSIONED AT A GIVEN ELEVATION, CAN BE ASSUMED TO BE SIMILAR TO THE ONE ON THE ELEVATION THAT IS DIMENSIONED. WHERE OUTLETS ARE DIMENSIONED ON AN ELEVATION THE TYPICAL FRAMING MUST BE ALTERED AND/OR STUDS HEADED OFF TO ACCOMMODATE DIMENSIONED LOCATIONS AND SHOWN.

I. ALL WALL SURFACES IN NEED OF REPAIR SHALL BE FILLED, SPACKLED AND TEXTURED TO MATCH THE EXISTING WALLS. FINISH AS SPECIFIED.

INTERIOR ELEVATION LEGEND

###X	CASEWORK TAG - SEE SCHEDULE, SHEET A750
B#X	DOOR TAG - SEE SCHEDULE, SHEET A710
X	WINDOW TAG - SEE SCHEDULE, SHEET A710
	NEW GYP BOARD - PAINT
	(E) CMU WALL - PAINT
	FRP-1: FIBER REINFORCED PLASTIC WALL PROTECTION OVER GYPSUM BOARD
	FRL-1: FIBER REINFORCED LAMINATE WALL PROTECTION OVER GYPSUM BOARD
	DWP-1: DECORATIVE WALL PANEL
	WP-1: WALL PROTECTION

NICHOLS MELBURG & ROSSETTO
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300 Knollcrest Drive
Redding, CA. 96002
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www.nmrdesign.com

REVISIONS

If drawing is not 42" x 30" it is a reduced print

LICENSE STAMPS

LICENSED ARCHITECT STEVEN R. CARTER C - 34730 REN 5/31/25 STATE OF CALIFORNIA

KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE EUREKA, CA 95501

SHEET TITLE

INTERIOR ELEVATIONS - FIRST FLOOR

DRAWING STATUS
CONSTRUCTION DOCUMENTS

Drawn By	GCP
Date Issued	06.01.2023
Scale	As indicated
Project No.	22-6507

SHEET No.
A501

Plot Date: 6/2/2023, 1:24:36 PM
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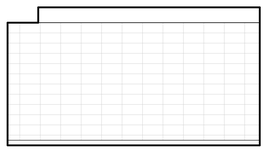
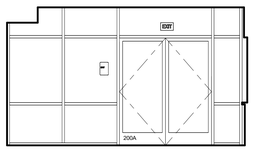


1 200 LOBBY - NORTH
1/4" = 1'-0"



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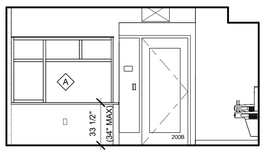
1/4" = 1'-0"



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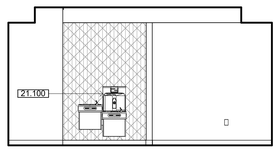
1/4" = 1'-0"



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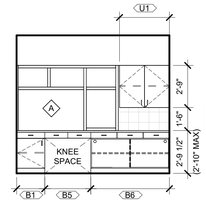
1/4" = 1'-0"



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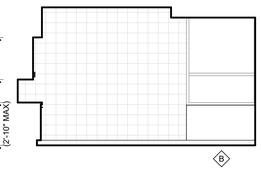

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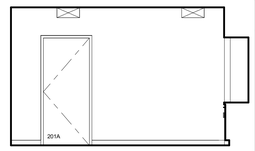

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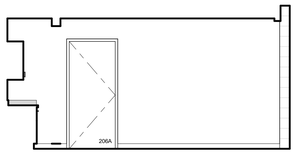
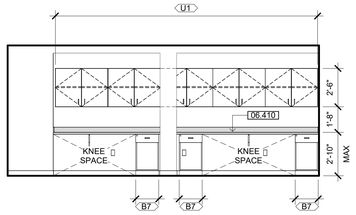


8 206 TRAINING - NORTH
1/4" = 1'-0"

9 206 TRAINING - EAST
1/4" = 1'-0"

10 206 TRAINING - SOUTH
1/4" = 1'-0"



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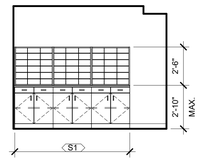

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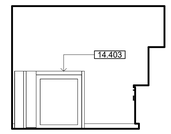

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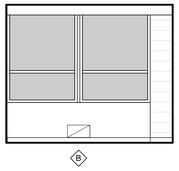

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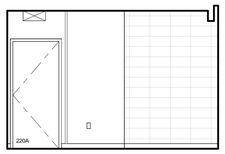
1/4" = 1'-0"

15 220 OFFICE - EAST
1/4" = 1'-0"

16 220 OFFICE - SOUTH
1/4" = 1'-0"



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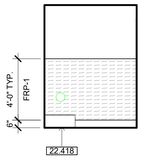

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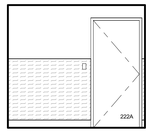
1/4" = 1'-0"



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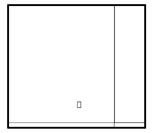
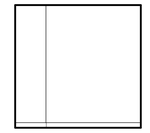


18 221 FILES - EAST
1/4" = 1'-0"



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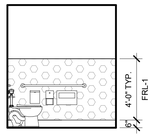
1/4" = 1'-0"



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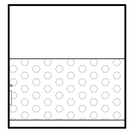
1/4" = 1'-0"



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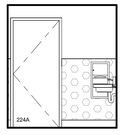

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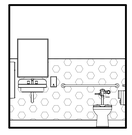
1/4" = 1'-0"



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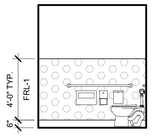
1/4" = 1'-0"



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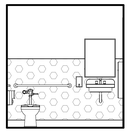
1/4" = 1'-0"



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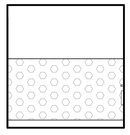
1/4" = 1'-0"



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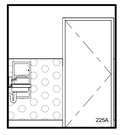

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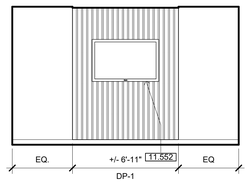
1/4" = 1'-0"



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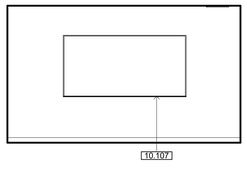
1/4" = 1'-0"



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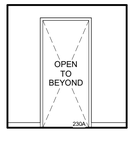

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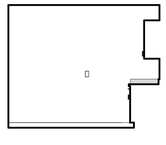

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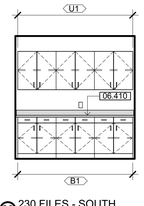
1/4" = 1'-0"



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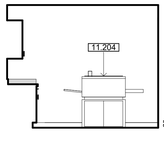

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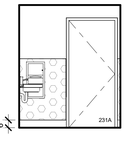

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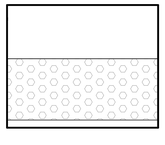

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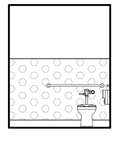

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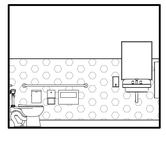

35 231 TOILET - WEST
1/4" = 1'-0"

SHEET NOTES

06.410 SOLID SURFACE COUNTERTOP
10.107 8'-0" X 4'-0" MARKERBOARD - SEE DETAIL 17/A940 OWNER FURNISHED, CONTRACTOR INSTALLED.
11.204 COPIER - OWNER FURNISHED, OWNER INSTALLED
11.552 WALL MOUNTED TELEVISION - OWNER FURNISHED, CONTRACTOR INSTALLED
14.403 VERTICAL PLATFORM LIFT
21.100 ACCESSIBLE DRINKING FOUNTAIN - SEE DETAIL 4/G213
22.418 JANITOR SINK - SEE PLUMBING DRAWINGS

INTERIOR ELEVATION GENERAL NOTES

A. GENERAL CONTRACTOR TO PROVIDE STRUCTURAL SUPPORT, BACKING AND/OR METAL REINFORCEMENT IN STUD WALLS AT ALL CASEWORK, CABINETS, SHELVING, EQUIPMENT ETC. REFER TO & FOR TYPICAL BACKING SCHEDULE AND TYPICAL MOUNTING HEIGHTS AND ARRANGEMENTS OF COMMON SPECIALTY ITEMS INCLUDING SHOWERS AND TOILET ROOMS.

B. SEE SHEET G213 FOR TYP. MOUNTING HEIGHTS.

C. SEE MECHANICAL, ELECTRICAL & LOW VOLTAGE DRAWINGS FOR EXTENT AND LOCATION OF ADDITIONAL WALL MOUNTED ITEMS SUCH AS CARD READERS, THERMOSTATS, SWITCHES, OUTLETS, CLOCKS, NURSECALL LIGHTS, FIRE ALARM, ETC. LOCATE ALL OUTLETS, SWITCHES, EQUIP., RECEPTACLE BOXES & OTHER SIMILAR RELATED ITEMS FOR OWNER'S FINAL APPROVAL PRIOR TO CONDUIT/PIPE INSTALLATION.

D. CONTRACTOR TO COORDINATE LOCATION OF CONTRACTOR OR OWNER FURNISHED ITEMS.

E. REFER TO FINISH SCHEDULE AND SPECIFICATIONS FOR SPECIFIC FINISH MATERIAL.

F. ALL VERTICAL DIMENSIONS ARE FROM FINISHED FLOOR, U.O.N.

G. ALL RECESSED SPECIALTIES SHOWN ON ELEVATIONS THAT ARE LOCATED IN FIRE RATED WALLS ARE TO BE 5-SIDED WITH 5/8" TYPE 'X' GYP BOARD SIMILAR TO

H. WHERE OUTLETS, MONITORS AND LIGHT SWITCHES ARE NOT DIMENSIONED AT A GIVEN ELEVATION, CAN BE ASSUMED TO BE SIMILAR TO THE ONE ON THE ELEVATION THAT IS DIMENSIONED. WHERE OUTLETS ARE DIMENSIONED ON AN ELEVATION THE TYPICAL FRAMING MUST BE ALTERED AND/OR STUDS HEADED OFF TO ACCOMMODATE DIMENSIONED LOCATIONS AND SHOWN.

I. ALL WALL SURFACES IN NEED OF REPAIR SHALL BE FILLED, SPACKLED AND TEXTURED TO MATCH THE EXISTING WALLS. FINISH AS SPECIFIED.

INTERIOR ELEVATION LEGEND

##/X CASEWORK TAG - SEE SCHEDULE, SHEET A750
B##X DOOR TAG - SEE SCHEDULE, SHEET A710
X WINDOW TAG - SEE SCHEDULE, SHEET A710
NEW GYP BOARD - PAINT
(E) CMU WALL - PAINT
FRP-1: FIBER REINFORCED PLASTIC WALL PROTECTION OVER GYPSUM BOARD
FRL-1: FIBER REINFORCED LAMINATE WALL PROTECTION OVER GYPSUM BOARD
DWP-1: DECORATIVE WALL PANEL
WP-1: WALL PROTECTION

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REVISIONS

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LICENSED ARCHITECT STEVEN R. CARTER C - 34730 REN 5/31/25 STATE OF CALIFORNIA

KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE
EUREKA, CA 95501

SHEET TITLE

INTERIOR ELEVATIONS - SECOND FLOOR

DRAWING STATUS
CONSTRUCTION DOCUMENTS

Drawn By	GCP
Date Issued	06.01.2023
Scale	As indicated
Project No.	22-6507

SHEET No.

A502

Plot Date: 6/2/2023 1:24:41 PM
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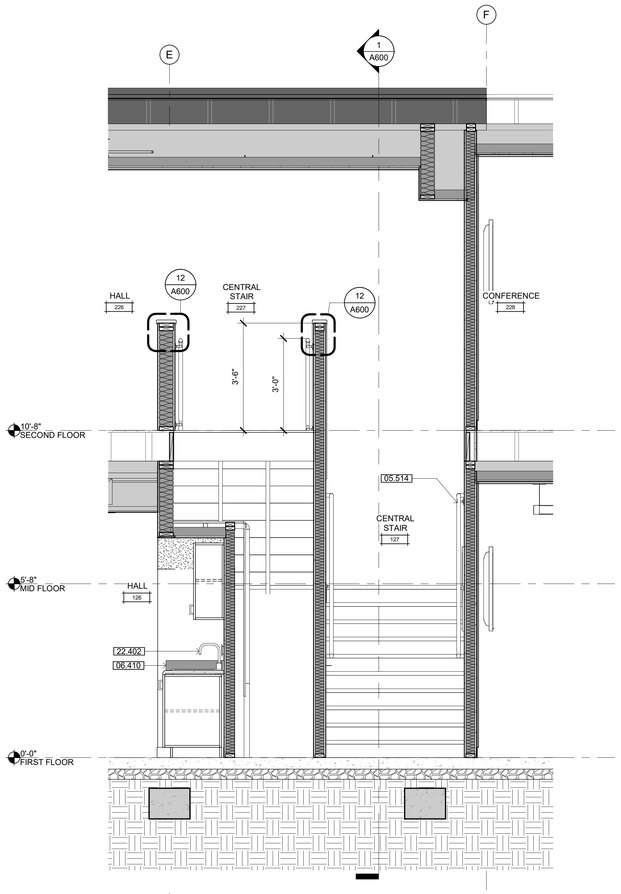
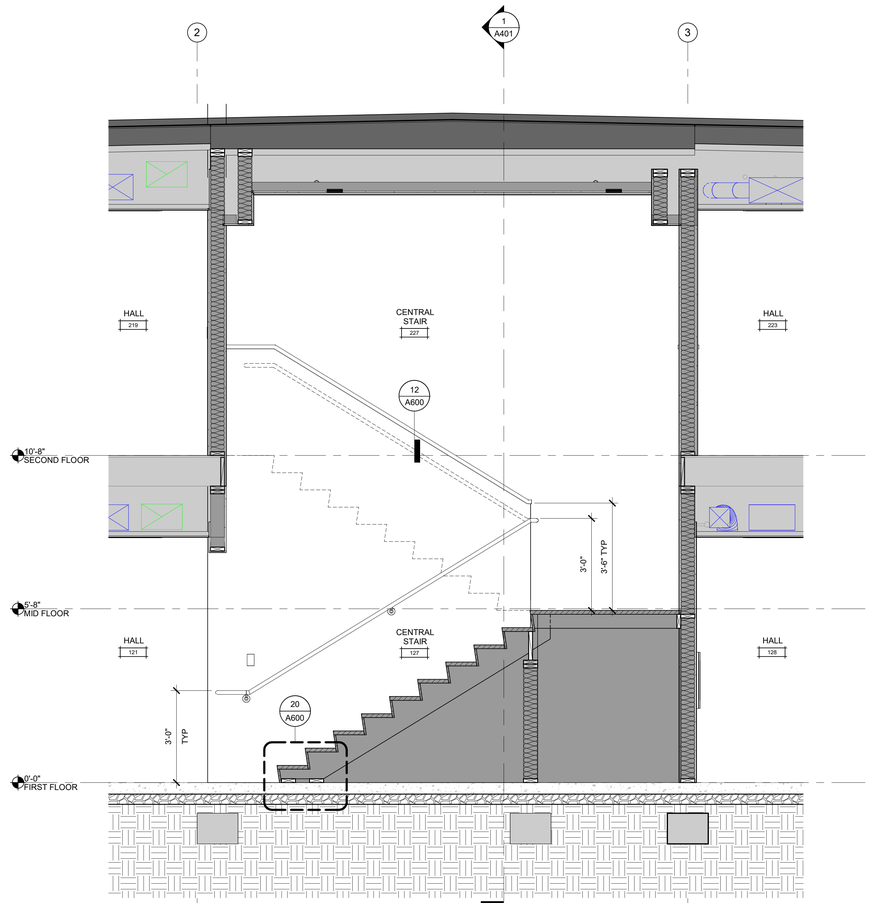


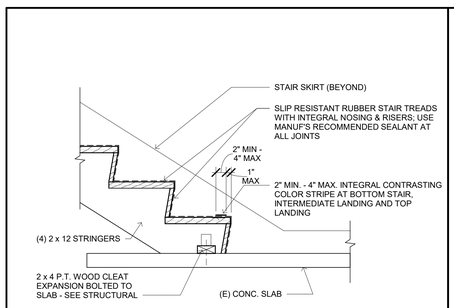
2 STAIR SECTION

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

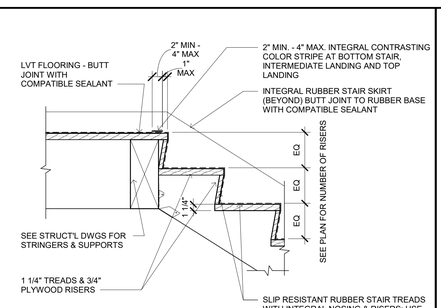


1 STAIR SECTION

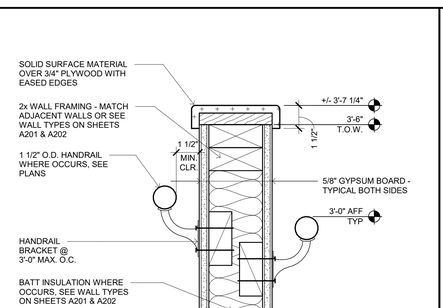
SCALE: 1/2" = 1'-0"



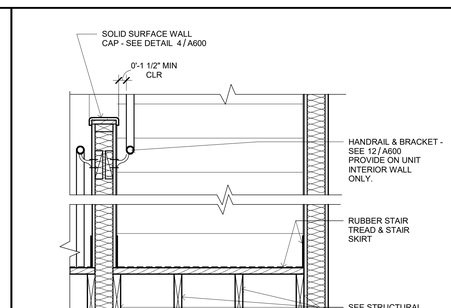
A600 BOTTOM OF STAIR — SCALE: 1" = 1'-0" — 20



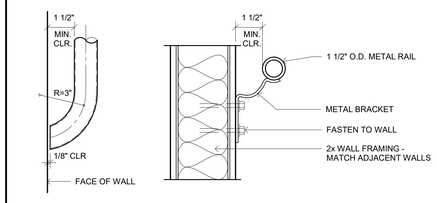
A231 TOP OF STAIR — SCALE: 1" = 1'-0" — 16



A600 SOLID SURFACE WALL CAP — SCALE: 3" = 1'-0" — 12

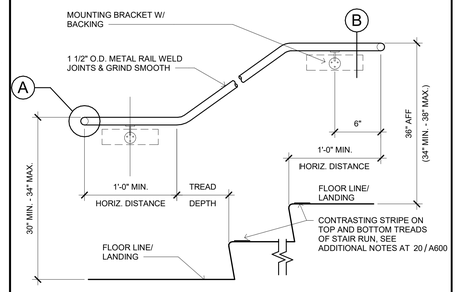


A231 STAIR CROSS SECTION — SCALE: 1" = 1'-0" — 8



A PLAN AT RAIL END — SCALE 3"=1'-0"

B SECTION AT BRACKET — SCALE 3"=1'-0"



A600 WALL MOUNTED HANDRAIL — SCALE: 1 1/2" = 1'-0" — 4

SHEET NOTES

05.514 HANDRAIL ON WALL
06.410 SOLID SURFACE COUNTERTOP
22.402 SINK

GENERAL NOTES

1. FOR INTERIOR STAIRS, PROVIDE A 2"MINIMUM AND MAXIMUM 4" WIDE WARNING STRIPE AT 1" FROM THE NOSING AT THE UPPER APPROACH AND THE LOWER TREAD. CBC 11B-504.4.1
2. FOR EXTERIOR STAIRS, PROVIDE A 2" MINIMUM AND MAXIMUM 4" WIDE WARNING STRIPE AT 1" FROM THE NOSING AT THE UPPER APPROACH AND AT ALL TREADS. CBC 11B-504.4.1

BLDG SECTION LEGEND

NATIVE SOIL

NON-RATED CMU WALL

NON-RATED CONCRETE WALL

NON-RATED WOOD STUD WALL

NICHOLS MELBURG & ROSSETTO
ARCHITECTS + ENGINEERS
300 Knollcrest Drive
Redding, CA. 96002
(530) 222-3300 (530) 222-3538 Fax
www.nmrdesign.com

REVISIONS

If drawing is not 42" x 30" it is a reduced print

LICENSE STAMPS

LICENSED ARCHITECT STEVEN R. CARTER C-34730 REN 5/31/25 STATE OF CALIFORNIA

KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE
EUREKA, CA 95501

SHEET TITLE

STAIR SECTIONS & DETAILS

DRAWING STATUS
CONSTRUCTION DOCUMENTS

Drawn By	GCP
Date Issued	06.01.2023
Scale	As indicated
Project No.	22-6507

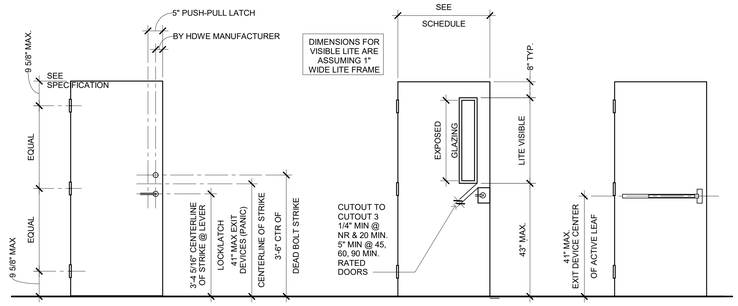
SHEET No.

A600

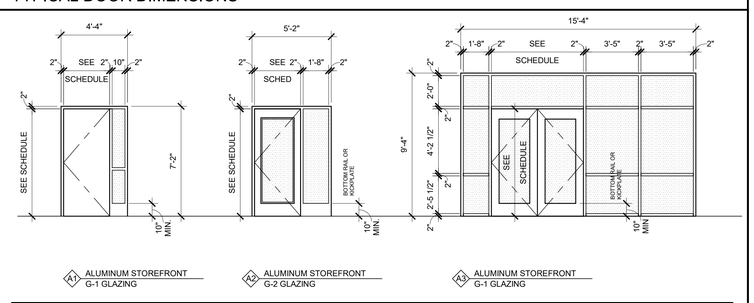
Plot Date: 6/2/2023 1:24:42 PM
File Name: A600a3 2022-Humboldt County Probation\A_HCJ-PROBATION.rvt

DOOR AND FRAME SCHEDULE

NUMBER	SIZE WIDTH	SIZE HEIGHT	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	FIRE RATING	HARDWARE GROUP	CARD READER	SIGNAGE TEXT	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	COMMENTS
FIRST FLOOR																
100A	3'-0"	7'-2"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	1	--		14/A714	15 & 16/A714	--	
100B	3'-0"	7'-0"	N	WOOD	PL-1	FR-01	H.M.	P-3	0	2	--		14/A714	15 & 16/A714	--	
101A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	3	--		14/A714	15 & 16/A714	--	
102A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	3	--		14/A714	15 & 16/A714	--	
103A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	3	--		14/A714	15 & 16/A714	--	
104A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	3	--		14/A714	15 & 16/A714	--	
105A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	3	--		14/A714	15 & 16/A714	--	
106A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	3	--		14/A714	15 & 16/A714	--	
107A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	3	--		14/A714	15 & 16/A714	--	
108A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	3	--		14/A714	15 & 16/A714	--	
109A	3'-0"	7'-0"	--	--	P-3	--	--	P-3	--	4	--		--	--	--	(E) DOOR & FRAME, PAINT DOOR & FRAME
110A	2'-8"	6'-8"	--	--	P-3	--	--	P-3	--	4	--		--	--	--	(E) DOOR & FRAME, PAINT DOOR & FRAME
112A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	3	--		14/A714	15 & 16/A714	--	
113A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	3	--		14/A714	15 & 16/A714	--	
114A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	3	--		14/A714	15 & 16/A714	--	
115A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	3	--		14/A714	15 & 16/A714	--	
116A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	3	--		14/A714	15 & 16/A714	--	
117A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	3	--		14/A714	15 & 16/A714	--	
118A	3'-0"	7'-0"	G	H.M.	P-3	FR-01	H.M.	P-3	0	10	●		18/A714	19/A714	20/A714	
119A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	3	--		14/A714	15 & 16/A714	--	
120A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	3	--		14/A714	15 & 16/A714	--	
121A	3'-0"	7'-0"	FG	ALUM	PRE-FIN	A1	ALUM	PRE-FIN	0	5	●		1/A714	1/A714 SIM	2 & 7/A714	
122A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	6	--		14/A714	15 & 16/A714	--	
123A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	7	--		14/A714	15 & 16/A714	--	
124A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	7	--		14/A714	15 & 16/A714	--	
125A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	7	--		14/A714	15 & 16/A714	--	
130A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	8	--		14/A714	15 & 16/A714	--	
131A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	3	--		14/A714	15 & 16/A714	--	
132A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	9	●		14/A714	15 & 16/A714	--	
133A	3'-0"	7'-0"	--	--	--	--	--	--	--	5	●		--	--	--	(E) DOOR & FRAME, REPLACE HARDWARE ONLY
134A	3'-0"	7'-0"	F	WOOD	PL-1	--	--	P-3	0	6	--		--	--	--	(E) FRAME, NEW DOOR FIELD VERIFY SIZE
SECOND FLOOR																
200A	6'-0"	7'-0"	FG	ALUM	PRE-FIN	A3	ALUM	PRE-FIN	0	11	●		1/A714	1/A714	2 & 7/A714	EQUAL PAIR
200B	3'-0"	7'-0"	FG	ALUM	PRE-FIN	A2	ALUM	PRE-FIN	0	12	●		5/A714	6/A714	--	
201A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	3	--		14/A714	15 & 16/A714	--	
202A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	3	--		14/A714	15 & 16/A714	--	
203A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	3	--		14/A714	15 & 16/A714	--	
204A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	3	--		14/A714	15 & 16/A714	--	
205A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	3	--		14/A714	15 & 16/A714	--	
206A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	2	--		14/A714	15 & 16/A714	--	
206B	3'-0"	7'-0"	N	WOOD	PL-1	--	--	P-3	0	1	--		--	--	--	(E) FRAME, NEW DOOR FIELD VERIFY SIZE
207A	3'-0"	7'-0"	--	WOOD	PL-1	--	--	P-3	0	6	--		--	--	--	(E) FRAME, NEW DOOR FIELD VERIFY SIZE
208A	6'-0"	7'-0"	--	WOOD	PL-1	--	--	P-3	0	13	--		--	--	--	(E) FRAME, NEW EQUAL DOOR PANELS FIELD VERIFY SIZE
209A	3'-0"	7'-0"	--	--	P-3	--	--	P-3	--	10	●		--	--	--	(E) DOOR & FRAME, PAINT DOOR & FRAME, INSTALL GLAZING & NEW THRESHOLD
210A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	3	--		14/A714	15 & 16/A714	--	
211A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	3	--		14/A714	15 & 16/A714	--	
212A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	3	--		14/A714	15 & 16/A714	--	
213A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	3	--		14/A714	15 & 16/A714	--	
214A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	3	--		14/A714	15 & 16/A714	--	
215A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	3	--		14/A714	15 & 16/A714	--	
217A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	3	--		14/A714	15 & 16/A714	--	
218A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	3	--		14/A714	15 & 16/A714	--	
219A	3'-0"	7'-0"	FG	ALUM	PRE-FIN	A1	ALUM	PRE-FIN	0	5	●		1/A714	1/A714	2 & 7/A714	
220A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	3	--		14/A714	15 & 16/A714	--	
221A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	6	--		14/A714	15 & 16/A714	--	
222A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	6	--		14/A714	15 & 16/A714	--	
224A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	7	--		14/A714	15 & 16/A714	--	
225A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	7	--		14/A714	15 & 16/A714	--	
228A	3'-0"	7'-0"	N	WOOD	PL-1	FR-01	H.M.	P-3	0	8	--		14/A714	15 & 16/A714	--	
230A	3'-0"	7'-0"	--	--	--	FR-01	H.M.	P-3	--	14	--		17/A714	17/A714	--	CASED OPENING
231A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	7	--		14/A714	15 & 16/A714	--	
232A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	3	--		14/A714	15 & 16/A714	--	
233A	3'-0"	7'-0"	F	WOOD	PL-1	FR-01	H.M.	P-3	0	3	--		14/A714	15 & 16/A714	--	

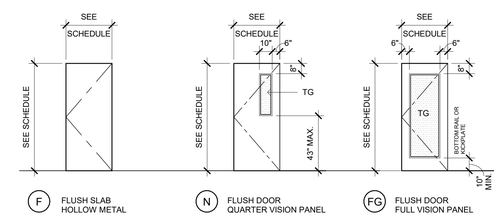


TYPICAL DOOR DIMENSIONS

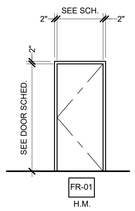


DOOR FRAMES - ALUMINUM STOREFRONT

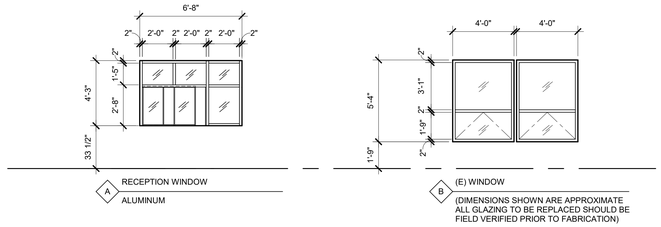
TG = TEMPERED GLAZING



DOOR TYPES



FRAME TYPES - HOLLOW METAL



WINDOW TYPES

GENERAL NOTES

A. ALL EXITS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF ANY SPECIAL KNOWLEDGE OR EFFORT AND WITHOUT REQUIRING THE ABILITY TO GRASP HARDWARE.

B. ALL GLAZING IN DOORS SHALL BE AS NOTED ON THE ADJACENT DOOR SCHEDULE.

C. CONTRACTOR SHALL VERIFY ALL ROUGH OPENINGS AND COORDINATE JAMB DEPTHS WITH FINISHES AND WALL THICKNESS PRIOR TO FABRICATION AND DELIVERY OF DOORS AND FRAMES.

D. ALL DOORS SHALL COMPLY WITH CBC SECTION 1010 AND UL 1784.

E. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAXIMUM. (CBC 11B-404.2.9)

F. THE CONTRACTOR SHALL MAKE ALL DOOR ADJUSTMENTS NECESSARY TO ALLOW FOR FLOORING MATERIAL AND FLOOR LEVEL.

G. SEE PROJECT MANUAL FOR HARDWARE SCHEDULE.

H. CONTRACTOR IS RESPONSIBLE FOR INSTALLING A COMPLETE OPERATING DOOR SYSTEM. CONTRACTOR SHALL COORDINATE ALL WORK BETWEEN HARDWARE SUPPLIER, SECURITY CONTRACTOR AND ELECTRICAL CONTRACTOR. ACCESS CONTROL SHALL BE COMPATIBLE WITH THE COUNTY'S EXISTING ACCESS CONTROL SYSTEM.

I. ALL EXTERIOR DOORS TO BE INSULATED.

J. ALL EXIT AND EXIT ACCESS DOORS TO COMPLY WITH CBC SECTION 1007.

K. REFER TO SHEET A700 FINISH SCHEDULE LEGEND FOR DEFINITION OF DOOR AND FRAME FINISHES INDICATED ON THIS SCHEDULE.

L. GENERAL CONTRACTOR SHALL FIELD-VERIFY ALL ROUGH OPENINGS PRIOR TO DOOR AND FRAME FABRICATION.

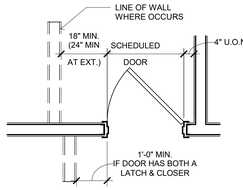
M. WHERE DOOR OCCURS WITHIN AN ALUMINUM STOREFRONT OR CURTAIN WALL SYSTEM, THE FRAME TYPE CALLED OUT IN THE OPENING SCHEDULE IS THE WINDOW TYPE FOUND ON THE PLANS AND ON THE WINDOW TYPES (SHEETS A720-A721).

N. ALL EXIT DOORS EQUIPPED WITH A KEY OPERATED LOCKING DEVICE SHALL HAVE A READILY VISIBLE, DURABLE SIGN POSTED ON THE EGRESS SIDE ADJACENT TO THE DOOR STATING: "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED". THE SIGN SHALL HAVE ONE-INCH HIGH LETTERS ON A CONTRASTING BACKGROUND PER CBC 1010.1.9.4.2.2.

O. CONTRACTOR SHALL VERIFY ALL ROUGH OPENINGS AND COORDINATE JAMB DEPTHS WITH FINISHES AND WALL THICKNESS PRIOR TO FABRICATION AND DELIVERY OF WINDOWS AND FRAMES.

P. FOR EXTERIOR WINDOW DETAILS SEE SHEET

Q. PROVIDE SAFETY GLAZING AT REQUIRED LOCATIONS PER CBC 2406.



TYPICAL DOOR CLEARANCES

1. GLASS TYPES NOTED ARE TYPICAL AT ALL LITES OF DOOR TYPES WITH MULTIPLE LITES, U.O.N.
2. DIMENSIONS SHOWN AT GLAZING INDICATE NET VIEWING DIMENSIONS, EXCLUSIVE OF FRAMES, STOPS, ETC., U.O.N.
3. FRAMES AROUND LITES SHALL BE POWDER COATED TO MATCH DOOR FRAME COLORS AS SELECTED BY ARCHITECT.

GLAZING LEGEND

TG = TEMPERED GLASS

GLAZING

SEE SPECIFICATIONS SECTIONS 08 80 00 FOR ADDITIONAL GLAZING INFORMATION

TYPE 'A' GLAZING - TEMPERED SAFETY GLASS

TYPE 'B' GLAZING - INSULATED GLAZING SYSTEM

TYPE 'C' GLAZING - CLEAR FLOAT GLASS

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PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE EUREKA, CA 95501

SHEET TITLE

DOOR SCHEDULE, FRAME AND WINDOW TYPES

DRAWING STATUS
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Drawn By	GCP
Date Issued	06.01.2023
Scale	As indicated
Project No.	22-6507

SHEET No.

A710

Plot Date: 6/2/2023 1:24:15 PM
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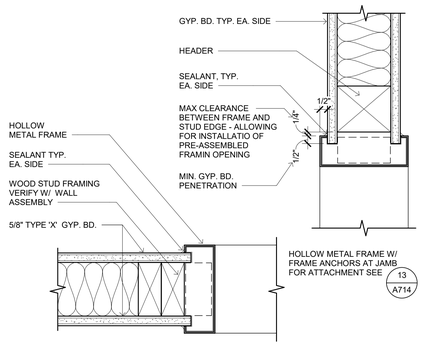
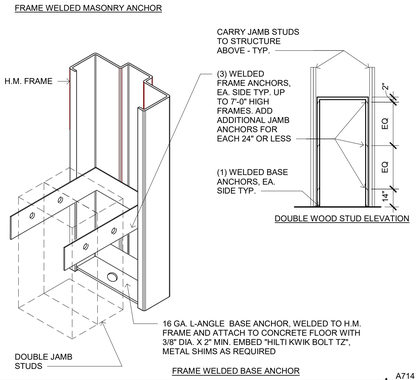


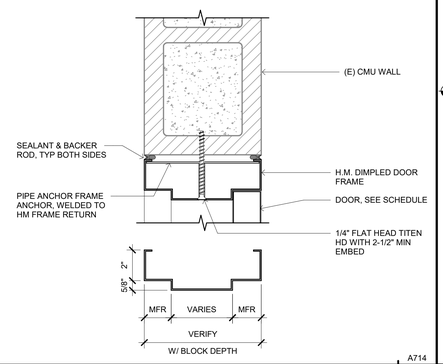
H.M. CASED OPENING HEAD & JAMB — A714 — 17

SCALE: 3" = 1'-0"



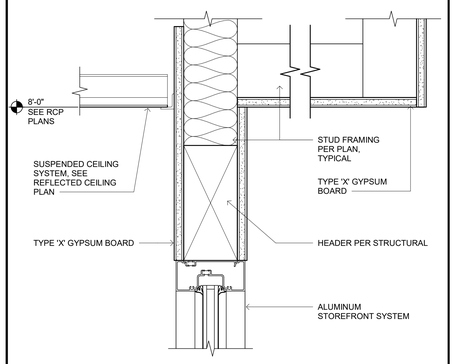
TYPICAL WELDED H.M. FRAME ANCHORS WOOD STUD AND MASONRY — A714 — 13

SCALE: 3" = 1'-0"



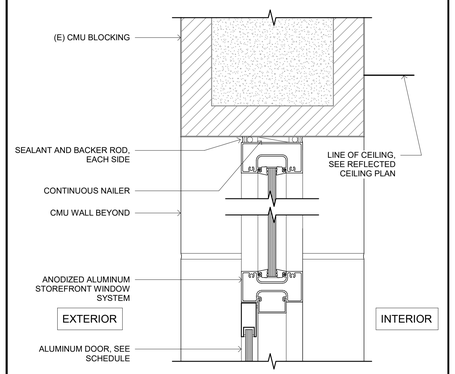
HM DOOR JAMB @ EXIST. CMU WALL (HEAD SIM) — A714 — 9

SCALE: 3" = 1'-0"



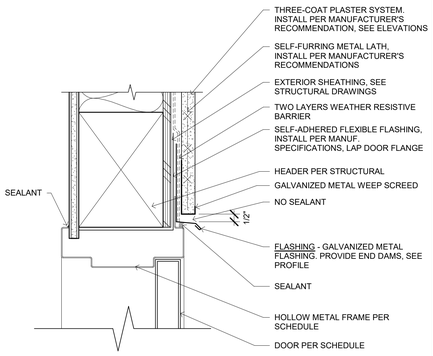
INTERIOR DOOR DETAIL - HEAD - SOFFIT — A714 — 5

SCALE: 3" = 1'-0"



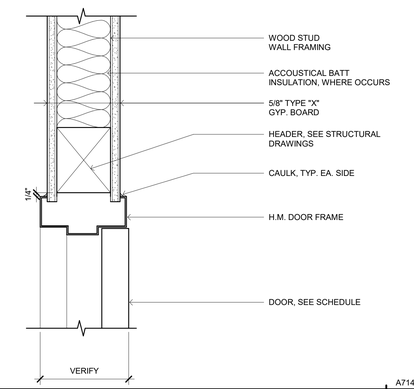
ALUM. ENTRY HEAD @ LOBBY (JAMB SIM.) — A714 — 1

SCALE: 3" = 1'-0"



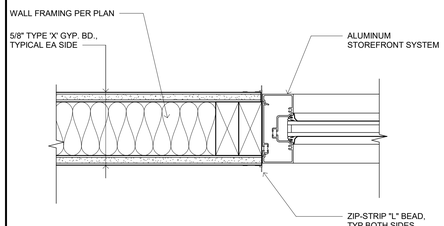
EXTERIOR HM DOOR HEAD AT WOOD FRAMING — A714 — 18

SCALE: 3" = 1'-0"



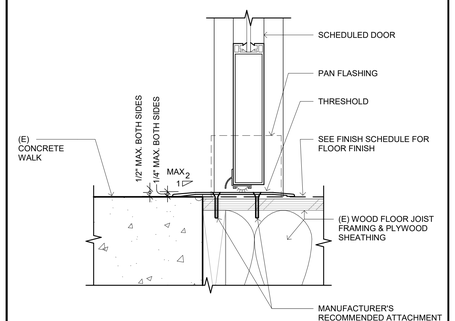
INTERIOR HM DOOR HEAD — A714 — 14

SCALE: 3" = 1'-0"



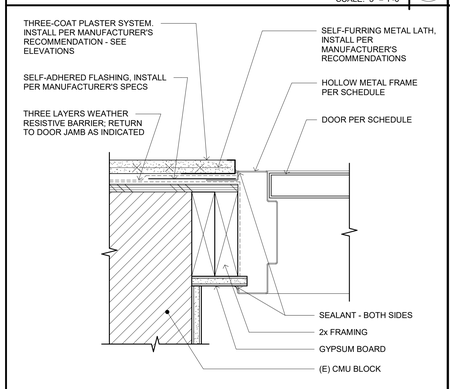
INTERIOR DOOR DETAIL - STOREFRONT - JAMB — A714 — 6

SCALE: 3" = 1'-0"



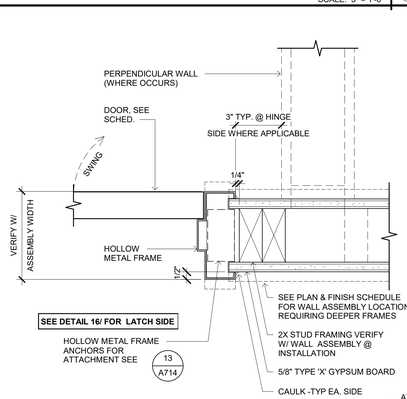
ALUM. ENTRY SILL @ LOBBY — A714 — 2

SCALE: 3" = 1'-0"



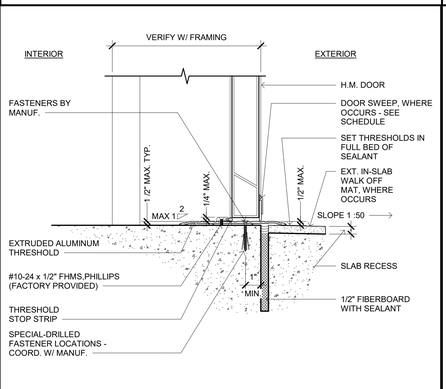
EXTERIOR HM DOOR JAMB AT WOOD FRAMING — A714 — 19

SCALE: 3" = 1'-0"



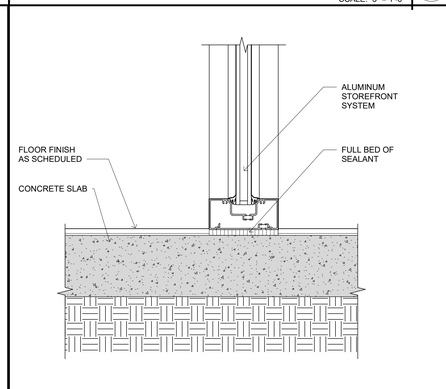
INTERIOR HM DOOR HINGE SIDE — A714 — 15

SCALE: 3" = 1'-0"



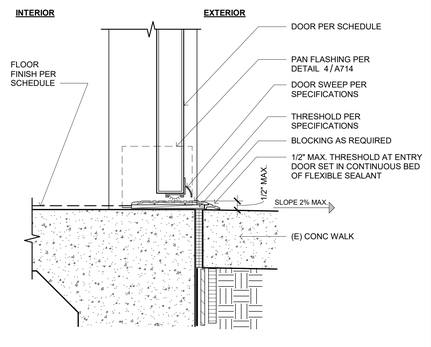
THRESHOLD AT EXTERIOR DOOR CONCRETE TO CONCRETE — A714 — 11

SCALE: 3" = 1'-0"



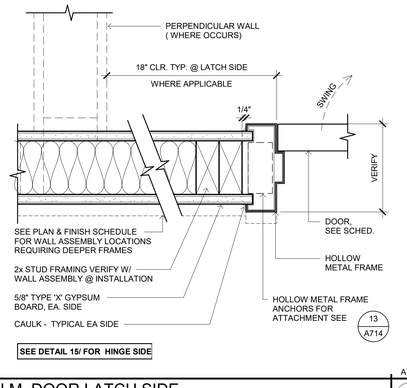
INTERIOR DOOR DETAIL - STOREFRONT - SILL — A714 — 7

SCALE: 3" = 1'-0"



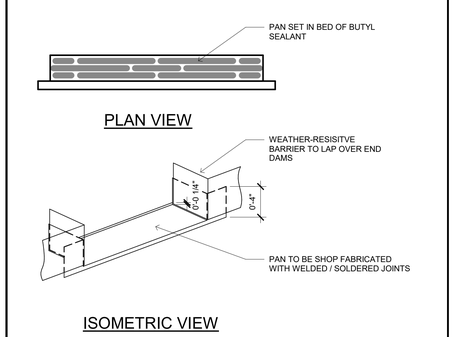
EXTERIOR HM DOOR THRESHOLD — A714 — 20

SCALE: 3" = 1'-0"



H.M. DOOR LATCH SIDE — A714 — 16

SCALE: 3" = 1'-0"



EXTERIOR THRESHOLD PAN FLASHING — A714 — 4

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

NICHOLS MELBURG & ROSSETTO
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300 Knollcrest Drive
Redding, CA. 96002
(530) 222-3300 (530) 222-3538 Fax
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REVISIONS

If drawing is not 42" x 30" it is a reduced print

LICENSE STAMPS

LICENSED ARCHITECT
STEVEN R. CARTER
C - 34730
REN 5/31/25
STATE OF CALIFORNIA

KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE EUREKA, CA 95501

SHEET TITLE

DOOR AND FRAME DETAILS

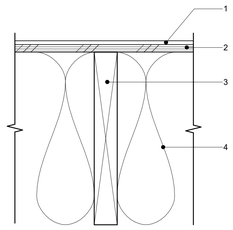
DRAWING STATUS
CONSTRUCTION DOCUMENTS

Drawn By	GCP
Date Issued	06.01.2023
Scale	As indicated
Project No.	22-6507

SHEET No.

A714

Plot Date: 6/2/2023 1:24:44 PM
File Name: Archive\1 Docs\Humboldt County Probation\A_HCJ-PROBATION.rvt



MATERIAL KEYNOTES

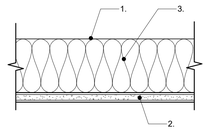
1. ROOFING MEMBRANE
2. PLYWOOD SHEATHING
3. 2x ROOF FRAMING WOOD STUDS
4. BATT INSULATION

NOTES

1. SEE FINISH SCHEDULE FOR ADDITIONAL FINISHES

ROOFING ASSEMBLY — A761 — 13

SCALE: 3" = 1'-0"



MATERIAL KEYNOTES

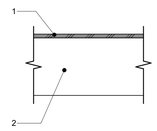
1. WOOD STUDS @ 16" O.C.
2. 5/8" TYPE 'X' GYPSUM BOARD
3. ACOUSTICAL BATT INSULATION

NOTES

1. SEE FINISH SCHEDULE FOR ADDITIONAL FINISHES

GYPSUM BOARD CEILING ASSEMBLY — A761 — 9

SCALE: 3" = 1'-0"



MATERIAL KEYNOTES

1. PLY WOOD SHEATHING - SEE STRUCTURAL FOR THICKNESS
2. WOOD JOIST - SEE STRUCTURAL FOR SIZES & SPACING

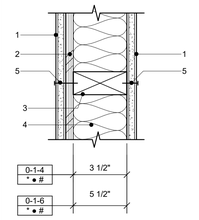
NOTES

1. SEE FINISH SCHEDULE FOR ADDITIONAL FINISHES

SECOND FLOOR ASSEMBLY — A761 — 5

SCALE: 1" = 1'-0"

PLAN



MATERIAL KEYNOTES

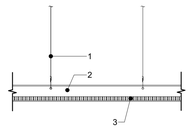
1. 5/8" TYPE 'X' GYPSUM WALLBOARD APPLIED w/ JOINTS VERTICAL & STAGGERED ON OPPOSITE SIDE OF WALL
2. SHEAR PLYWOOD WHERE OCCURS, SEE STRUCTURAL PLANS FOR LOCATIONS AND SIDE OF WALL
3. WOOD STUDS AT 16" O.C.
4. ACOUSTICAL INSULATION
5. 6d COOLER NAILS OR WALLBOARD NAILS AT 8" O.C. AT PERIMETER EDGE OF BOARDS AND 16" O.C. IN FIELD OF BOARDS

NOTES

1. SEE FINISH SCHEDULE FOR ADDITIONAL FINISHES

INTERIOR WOOD FRAMED WALL ASSEMBLY — A761 — 1

SCALE: 3" = 1'-0"



MATERIAL KEYNOTES

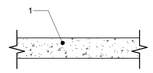
1. HANGER WIRES
2. MAIN RUNNER
3. ACOUSTICAL CEILING PANEL

NOTES

1. SEE FINISH SCHEDULE FOR ADDITIONAL FINISHES

SUSPENDED ACOUSTICAL CEILING ASSEMBLY — A761 — 10

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



MATERIAL KEYNOTES

1. CONCRETE SLAB - SEE STRUCTURAL FOR THICKNESS

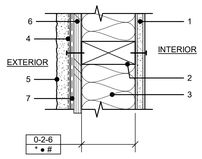
NOTES

1. SEE FINISH SCHEDULE FOR ADDITIONAL FINISHES

CONCRETE SLAB — A761 — 6

SCALE: 1" = 1'-0"

PLAN



MATERIAL KEYNOTES

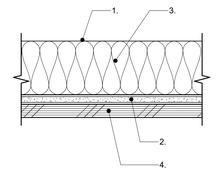
1. 5/8" TYPE 'X' GYPSUM WALLBOARD.
2. WOOD STUDS AT 16" o.c.
3. THERMAL INSULATION, SEE SPECIFICATIONS.
4. BUILDING PAPER.
5. 7/8" CEMENT PLASTER AT EXTERIOR WALL SURFACE.
6. PLYWOOD SHEATHING.
7. WEATHER BARRIER.

NOTES

1. SEE FINISH SCHEDULE FOR ADDITIONAL FINISHES

EXTERIOR WOOD FRAMED WALL ASSEMBLY — A761 — 2

SCALE: 3" = 1'-0"



MATERIAL KEYNOTES

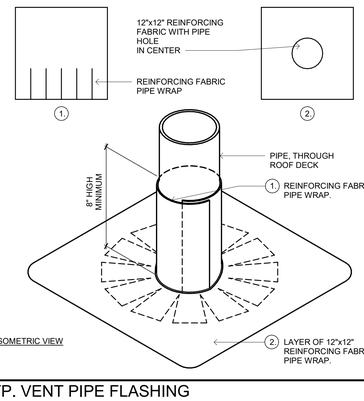
1. WOOD STUDS @ 16" O.C.
2. 5/8" TYPE 'X' GYPSUM BOARD
3. ACOUSTICAL BATT INSULATION
4. .866" DECORATIVE WOOD VENEER PANEL (SEE FINISH SCHEDULE)

NOTES

1. SEE FINISH SCHEDULE FOR ADDITIONAL FINISHES
2. REFER TO A251 & A252 FOR LIGHTING LAYOUT

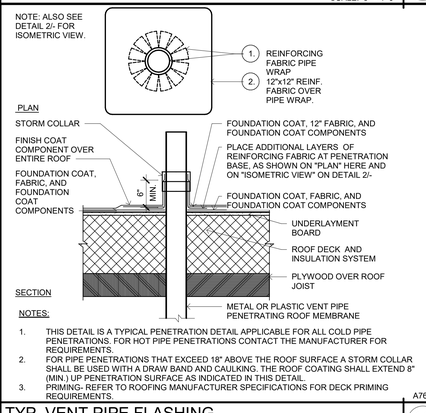
WOOD CEILING ASSEMBLY — A761 — 11

SCALE: 3" = 1'-0"



TYP. VENT PIPE FLASHING — A761 — 16

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

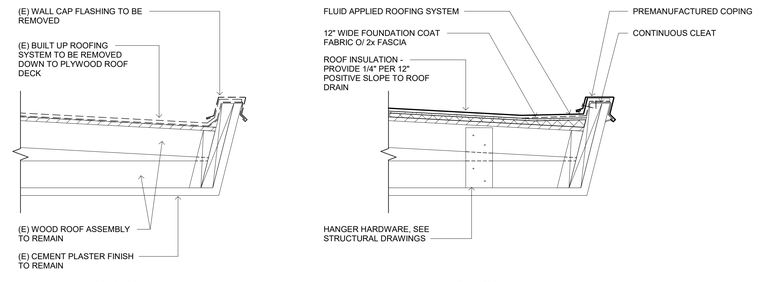


NOTES:

1. THIS DETAIL IS A TYPICAL PENETRATION DETAIL APPLICABLE FOR ALL COLD PIPE PENETRATIONS. FOR HOT PIPE PENETRATIONS CONTACT THE MANUFACTURER FOR REQUIREMENTS.
2. FOR PIPE PENETRATIONS THAT EXCEED 18" ABOVE THE ROOF SURFACE A STORM COLLAR SHALL BE USED WITH A DRAW BAND AND CAULKING. THE ROOF COATING SHALL EXTEND 8" (MIN.) UP PENETRATION SURFACE AS INDICATED IN THIS DETAIL.
3. PRIMING- REFER TO ROOFING MANUFACTURER SPECIFICATIONS FOR DECK PRIMING REQUIREMENTS.

TYP. VENT PIPE FLASHING — A761 — 12

SCALE: 1" = 1'-0"



FLUID APPLIED ROOFING AT WOOD ROOF — A761 — 4

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

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(530) 222-3300 (530) 222-3538 FAX
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REVISIONS

Delta	Description	Date

If drawing is not 42" x 30" it is a reduced print

LICENSE STAMPS

LICENSED ARCHITECT
LES MELBURG
C - 13285
REN. 3/31/19
STATE OF CALIFORNIA

KEY PLAN

PROJECT NAME

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE EUREKA, CA 95501

SHEET TITLE

ASSEMBLY & ROOFING DETAILS

DRAWING STATUS
CONSTRUCTION DOCUMENTS

AGENCY APPROVAL

Drawn By	GCP
Date Issued	06.01.2023
Scale	As indicated
Project No.	22-6507

SHEET No.

A761

Plot Date: 6/2/2023 1:24:44 PM
File Name: Modified 12x30 Humboldt County Probation\A_HCLPROBATION.rvt

FINISH SCHEDULE LEGEND

WALK OFF MAT (CARPET)

WOM-1
- MANUFACTURER: PHILADELPHIA CONTRACT
- STYLE: 54587STEP ON IT
- COLOR: 87200 EARLY BIRD
- SIZE: 24" X 24"
- INSTALL: MONOLITHIC

SHEET VINYL FLOORING

SV-1
- MANUFACTURER: AHF CONTRACT
- STYLE: CONCEPTS OF LANDSCAPES
- COLOR: FINELY WOVEN GRAY 1HE2M419
- SIZE: 6'-6" WIDE ROLL
- SEAMS: HEAT WELD
- WELD ROD: MATCHING ROD
- BASE: 6" HIGH INTEGRAL COVED

LUXURY VINYL TILE

LVT-1
- MANUFACTURER: TARKETT
- STYLE: PLWD LATITUDE WOOD
- COLOR: 3523 LAUREL OAK
- SIZE: 6" X 48"
- INSTALL: STAGGER

LVT-2
- MANUFACTURER: TARKETT
- STYLE: CONTOUR, FACTOR
- COLOR: 10737 SANDBAR
- SIZE: 18" X 18"
- INSTALL: QUARTER TURN

LVT-3
- MANUFACTURER: TARKETT
- STYLE: CONTOUR, CHENILLE
- COLOR: 0975 LUXE
- SIZE: 18" X 18"
- INSTALL: QUARTER TURN

SEALED CONCRETE

C-1 SEALED CONCRETE

RUBBER BASE

RB-1
- MANUFACTURER: JOHNSONITE
- STYLE: BASEWORKS
- COLOR: MOON ROCK 29
- SIZE: 4" HIGH COIL W/ TOE (NO MANUFACTURED CORNERS)

RUBBER FLOORING (STAIRS)

RF-1
- MANUFACTURER: TARKETT
- STYLE: ANGLE FIT RUBBER STAIR TREAD WITH INTERGRATED RISER
- TEXTURE: FAST LANE
- COLOR: MOON ROCK 29
- INSERT: BLACK
- INSERT LOCATION: (ALL TREADS / TOP & BOTTOM TREAD)
- INSTALL: ONE PIECE PER TREAD/RISER
- LANDING: 24"Z24" FASTLANE TILE,
- LANDING COLOR: MOON ROCK 29

PAINT

P-1
- MANUFACTURER: DUNN EDWARDS
- COLOR: DE6219 CRYSTAL HAZE
- FINISH: SATIN
- LOCATION: FIELD

P-2
- MANUFACTURER: DUNN EDWARDS
- COLOR: DET648 WHITE PICKET FENCE
- FINISH: SATIN
- LOCATION: CEILINGS

P-3
- MANUFACTURER: DUNN EDWARDS
- COLOR: DET626 METAL FRINGE
- FINISH: SEMI-GLOSS
- LOCATION: DOOR FRAME & DOORS WHERE OCCURS

P-4
- MANUFACTURER: DUNN EDWARDS
- COLOR: DET692 GREY MONUMENT
- FINISH: SATIN
- LOCATION: ACCENT

P-5
- MANUFACTURER: DUNN EDWARDS
- COLOR: DE6312 DUSTY DREAM
- FINISH: SATIN
- LOCATION: ACCENT

P-6
- MANUFACTURER: DUNN EDWARDS
- COLOR: DE6152 MAPLE VIEW
- FINISH: SATIN
- LOCATION: ACCENT

DECORATIVE PANEL

DP-1
- MANUFACTURER: ACOUSTICAL ART CONCEPTS
- STYLE: AKUPANEL 3X1
- COLOR: NATURAL OAK
- SIZE: 23 5/8" X 94 1/2"
- INSTALL: WALL: VERTICAL, CEILING: SEE REFLECTED CEILING PLAN

WALL PROTECTION

FRP-1
- MANUFACTURER: MARLITE
- STYLE/COLOR: P100 WHITE
- TEXTURE: EMBOSSED

FRL-1
- MANUFACTURER: FORMICA
- STYLE/COLOR: WHITE TWILL 9285-58
- TEXTURE: MATTE
- INSTALL: VERTICAL

WP-1
- MANUFACTURER: CONSTRUCTION SPECIALTIES
- STYLE: COARSE WEAVE
- COLOR: #14123 PEWTER

PLASTIC LAMINATE

PL-1
- MANUFACTURER: WILSONART
- COLOR: MANGALORE MANGO 7984-38
- FINISH: FINE VELVET FINISH
- LOCATION: BASE CABINETS + INTERIOR DOORS

PL-2
- MANUFACTURER: WILSONART
- COLOR: CLASSIC LINEN 4943-38
- FINISH: FINE VELVET FINISH
- LOCATION: UPPER CABINETS

SOLID SURFACE MATERIAL

SSM-1
- MANUFACTURER: WILSONART
- COLOR: WHITE STONE 9208CS
- LOCATION: COUNTERTOPS

ACOUSTICAL CEILING TILE

ACT-1
- MANUFACTURER: ARMSTRONG
- STYLE: ULTIMA HIGH NRC
- COLOR: WHITE
- SIZE: 24" x 24"
- GRID: 15/16" PRELUDE, WHITE

WINDOW COVERINGS

WS-1
- MANUFACTURER: DRAPER
- TYPE: SW2500
- STYLE: OYSTER/BEIGE
- SHADE COLOR: 3% OPENNESS
- FASCIA COLOR: -
- CONTROLS: MANUAL

FINISH SCHEDULE

NUMBER	NAME	FLOORING	BASE	WALLS NORTH MATERIAL	WALLS NORTH FINISH	WALLS EAST MATERIAL	WALLS EAST FINISH	WALLS SOUTH MATERIAL	WALLS SOUTH FINISH	WALLS WEST MATERIAL	WALLS WEST FINISH	CASEWORK UPPER CABINET	CASEWORK BASE CABINET / FULL HEIGHT CABINET	CASEWORK COUNTER TOP	DOOR FINISH	DOOR FRAME FINISH	CEILING FINISH	SOFFIT FINISH	WINDOW COVERING	ROOM FINISH REMARKS
LEVEL ONE																				
100	BREAK ROOM	LVT-2	RB-1	GYP BD	P-1,6	(E) CMU	P-1,6	GYP BD	P-6	GYP BD	P-1	PL-2	PL-1	SSM-1	PL-1	P-3	ACT-1	P-2	WS-1	
101	OFFICE	LVT-1,2	RB-1	GYP BD	P-5	GYP BD	P-1	GYP BD	P-1	GYP BD	P-1	--	--	--	PL-1	P-3	ACT-1	--	--	
102	OFFICE	LVT-1,2	RB-1	GYP BD	P-5	GYP BD	P-1	GYP BD	P-1	GYP BD	P-1	--	--	--	PL-1	P-3	ACT-1	--	--	
103	OFFICE	LVT-1,2	RB-1	GYP BD	P-5	GYP BD	P-1	GYP BD	P-1	GYP BD	P-1	--	--	--	PL-1	P-3	ACT-1	--	--	
104	OFFICE	LVT-1,2	RB-1	GYP BD	P-5	GYP BD	P-1	GYP BD	P-1	GYP BD	P-1	--	--	--	PL-1	P-3	ACT-1	--	--	
105	OFFICE	LVT-1,2	RB-1	GYP BD	P-5	GYP BD	P-1	GYP BD	P-1	GYP BD	P-1	--	--	--	PL-1	P-3	ACT-1	--	--	
106	OFFICE	LVT-1,2	RB-1	GYP BD	P-5	GYP BD	P-1	GYP BD	P-1	GYP BD	P-1	--	--	--	PL-1	P-3	ACT-1	--	--	
107	OFFICE	LVT-1,2	RB-1	GYP BD	P-5	GYP BD	P-1	GYP BD	P-1	GYP BD	P-1	--	--	--	PL-1	P-3	ACT-1	--	--	
108	COMPUTER	LVT-1,2	RB-1	GYP BD	P-5	GYP BD	P-1	GYP BD	P-5	GYP BD	P-1	--	--	--	PL-1	P-3	ACT-1	--	--	
109	ELEC.	C-1	RB-1	(E) CMU	P-1	(E) CONC	P-1	(E) CONC	P-1	(E) CMU	P-1	--	--	--	P-3	P-3	ETR	--	--	
110	STORAGE	C-1	RB-1	(E) CMU	P-1	(E) CMU	P-1	(E) CMU	P-1	(E) CMU/CONC	P-1	--	--	--	P-3	P-3	ETR	--	--	
111	PROCESSING	LVT-3	RB-1	GYP BD	P-4	GYP BD	P-4	(E) CMU	P-1	GYP BD	P-4	PL-2/ETR	PL-1/ETR	SSM-1	--	--	ACT-1	P-4	--	
112	OFFICE	LVT-1,2	RB-1	GYP BD	P-1	GYP BD	P-1	(E) CMU	P-5	(E) CMU	P-1	--	--	--	PL-1	P-3	ACT-1	--	WS-1	
113	OFFICE	LVT-1,2	RB-1	GYP BD	P-1	GYP BD	P-1	GYP BD	P-5	GYP BD	P-1	--	--	--	PL-1	P-3	ACT-1	P-2	WS-1	
114	OFFICE	LVT-1,2	RB-1	GYP BD	P-1	GYP BD	P-1	GYP BD	P-5	GYP BD	P-1	--	--	--	PL-1	P-3	ACT-1	P-2	WS-1	
115	OFFICE	LVT-1,2	RB-1	GYP BD	P-1	GYP BD	P-1	GYP BD	P-5	GYP BD	P-1	--	--	--	PL-1	P-3	ACT-1	P-2	WS-1	
116	OFFICE	LVT-1,2	RB-1	GYP BD	P-1	GYP BD	P-1	GYP BD	P-5	GYP BD	P-1	--	--	--	PL-1	P-3	ACT-1	P-2	WS-1	
117	OFFICE	LVT-1,2	RB-1	GYP BD	P-1	GYP BD	P-1	GYP BD	P-5	GYP BD	P-1	--	--	--	PL-1	P-3	ACT-1	P-2	WS-1	
118	LIFT	LVT-1	RB-1	GYP BD	P-1	--	--	GYP BD	P-1	GYP BD	P-5	--	--	--			ACT-1	P-1	--	
119	OFFICE	LVT-1,2	RB-1	GYP BD	P-5	GYP BD	P-1	GYP BD	P-1	GYP BD	P-1	--	--	--	PL-1	P-3	ACT-1	P-2	WS-1	
120	OFFICE	LVT-1,2	RB-1	GYP BD	P-5	GYP BD	P-1	GYP BD	P-1	(E) CMU	P-1	--	--	--	PL-1	P-3	ACT-1	--	WS-1	
121	HALL	WOM-1,LVT-1,3	RB-1	GYP BD	P-1	GYP BD	P-1,4	GYP BD	P-1	GYP BD	P-1	--	--	--	FF	FF	ACT-1	--	--	
122	JAN	SV-1	SV-1	GYP BD	P-1, FRP-1	GYP BD	P-1, FRP-1	GYP BD	P-1, FRP-1	(E) CMU	P-1, FRP-1	--	--	--	PL-1	P-3	P-2	--	--	1,2,4
123	TOILET	SV-1	SV-1	GYP BD	P-4/FRL-1	GYP BD	P-4/FRL-1	GYP BD	P-4/FRL-1	GYP BD	P-4/FRL-1	--	--	--	PL-1	P-3	P-2	--	--	1
124	TOILET	SV-1	SV-1	GYP BD	P-4/FRL-1	GYP BD	P-4/FRL-1	GYP BD	P-4/FRL-1	GYP BD	P-4/FRL-1	--	--	--	PL-1	P-3	P-2	--	--	1
125	TOILET	SV-1	SV-1	GYP BD	P-4/FRL-1	GYP BD	P-4/FRL-1	GYP BD	P-4/FRL-1	(E) CMU	P-4	--	--	--	PL-1	P-3	P-2	--	--	1
126	HALL	LVT-1,3	RB-1	GYP BD	P-1	--	--	GYP BD	P-4	--	--	PL-2	PL-1	SSM-1	--	--	ACT-1	P-4	--	
127	CENTRAL STAIR	RF-1	RB-1	GYP BD	P-4	GYP BD	P-4	GYP BD	P-4	GYP BD	P-4	--	--	--	--	--	--	P-4	--	
128	HALL	LVT-1,3	RB-1	GYP BD	P-1	GYP BD	P-1	GYP BD	P-1	GYP BD	P-1,4	--	--	--			ACT-1	--	--	
130	CONFERENCE	LVT-3	RB-1	GYP BD	P-1,DP-1	GYP BD	P-1	GYP BD	P-1	GYP BD	P-1	--	--	--	PL-1	P-3	P-2, DP-1	--	--	4,5
131	OFFICE	LVT-3	RB-1	GYP BD	P-1	GYP BD	P-1	GYP BD	P-5	GYP BD	P-1	--	--	--	PL-1	P-3	ACT-1	--	--	
132	EVIDENCE PROCESSING	LVT-3	RB-1	GYP BD	P-1	GYP BD	P-1	GYP BD	P-1	GYP BD	P-1	--	ETR	--	PL-1	P-3	ACT-1	--	--	
133	SOUTH STAIR	WOM-1,RF-1	RB-1	(E) CMU	P-1	(E) CMU	P-1	(E) CMU	P-1	(E) CMU	P-1	--	--	--	ETR	ETR	--	--	--	
134	STORAGE	C-1	RB-1	(E) CMU	P-1	(E) CMU	P-1	(E) CMU	P-1	(E) CMU	P-1	--	--	--	PL-1	P-3	ETR	--	--	
LEVEL TWO																				
200	LOBBY	WOM-1,LVT-1	RB-1	(E) CMU	P-1	(E) CMU	P-1	GYP BD	P-4	GYP BD	P-4,WP-1	--	--	--	PL-1/FF	P-3/FF	DP-1	P-2	--	5
201	RECEPTION	LVT-2	RB-1	GYP BD	P-1	(E) CMU	P-1	GYP BD	P-6	GYP BD	P-1	PL-2	PL-1	SSM-1	PL-1	P-3	ACT-1	P-2	WS-1	5
202	OFFICE	LVT-1,2	RB-1	GYP BD	P-1	GYP BD	P-1	GYP BD	P-5	GYP BD	P-1	--	--	--	PL-1	P-3	ACT-1	P-2	WS-1	
203	OFFICE	LVT-1,2	RB-1	GYP BD	P-1	GYP BD	P-1	GYP BD	P-5	GYP BD	P-1	--	--	--	PL-1	P-3	ACT-1	P-2	WS-1	
204	OFFICE	LVT-1,2	RB-1	GYP BD	P-1	GYP BD	P-1	GYP BD	P-5	GYP BD	P-1	--	--	--	PL-1	P-3	ACT-1	P-2	WS-1	
205	OFFICE	LVT-1,2	RB-1	GYP BD	P-1	GYP BD	P-1	GYP BD	P-5	GYP BD	P-1	--	--	--	PL-1	P-3	ACT-1	P-2	WS-1	
206	TRAINING	LVT-3	RB-1	GYP BD	P-4	GYP BD/(E) CMU	P-1	(E) CMU	P-1	GYP BD	P-4	PL-2	PL-1	SSM-1	PL-1	P-3	ACT-1	P-2,4	WS-1	5
207	FISCAL STORAGE	C-1	RB-1	(E) GYP BD	P-1	(E) CMU	P-1	(E) CMU	P-1	(E) GYP BD	P-1	--	--	--	PL-1	P-3	P-2	--	--	
208	MECH	C-1	RB-1	(E) GYP BD/(E) CMU	P-1	(E) GYP BD	P-1	(E) CMU	P-1	(E) CMU	P-1	--	--	--	PL-1	P-3	ETR	--	--	
209	HALL	WOM-1,LVT-1	RB-1	(E) GYP BD/(E) CMU	P-1	(E) CMU	P-1	(E) GYP BD/(E) CMU	P-1	(E) CMU	P-1	--	--	--	P-3	P-3	ETR	--	--	
210	OFFICE	LVT-1,2	RB-1	GYP BD	P-1	GYP BD	P-1	(E) CMU	P-5	(E) CMU	P-1	--	--	--	PL-1	P-3	ACT-1	--	WS-1	
211	OFFICE	LVT-1,2	RB-1	GYP BD	P-1	GYP BD	P-1	GYP BD	P-5	GYP BD	P-1	--	--	--	PL-1	P-3	ACT-1	P-2	WS-1	
212	OFFICE	LVT-1,2	RB-1	GYP BD	P-1	GYP BD	P-1	GYP BD	P-5	GYP BD	P-1	--	--	--	PL-1	P-3	ACT-1	P-2	WS-1	
213	OFFICE	LVT-1,2	RB-1	GYP BD	P-1	GYP BD	P-1	GYP BD	P-5	GYP BD	P-1	--	--	--	PL-1	P-3	ACT-1	P-2	WS-1	
214	OFFICE	LVT-1,2	RB-1	GYP BD	P-1	GYP BD	P-1	GYP BD	P-5	GYP BD	P-1	--	--	--	PL-1	P-3	ACT-1	P-2	WS-1	
215	OFFICE	LVT-1,2	RB-1	GYP BD	P-1	GYP BD	P-1	GYP BD	P-5	GYP BD	P-1	--	--	--	PL-1	P-3	ACT-1	P-2	WS-1	
216	MAIL	LVT-1	RB-1	GYP BD	P-1	--	--	GYP BD	P-1	GYP BD	P-5	PL-2	PL-1	SSM-1	--	--	ACT-1	P-1	--	5
217	OFFICE	LVT-1,2	RB-1	GYP BD	P-5	GYP BD	P-1	GYP BD	P-1	GYP BD	P-1	--	--	--	PL-1	P-3	ACT-1	P-2	WS-1	
218	OFFICE	LVT-1,2	RB-1	GYP BD	P-5	GYP BD	P-1	GYP BD	P-1	(E) CMU	P-1	--	--	--	PL-1	P-3	ACT-1		WS-1	
219	HALL	WOM-1,LVT-1,3	RB-1	GYP BD	P-1	GYP BD	P-1,4	GYP BD	P-1	GYP BD	P-1	--	--	--	FF	FF	ACT-1	--	--	
220	OFFICE	LVT-1,2	RB-1	(E) CMU	P-1	GYP BD	P-5	GYP BD	P-1	GYP BD/(E) CMU	P-1	--	--	--	PL-1	P-3	ACT-1	P-2	WS-1	
221	FILES	LVT-1	RB-1	GYP BD	P-1	GYP BD	P-1	GYP BD	P-1	GYP BD	P-1	--	--	--	PL-1	P-3	ACT-1	--	--	
222	JAN	SV-1	SV-1	GYP BD	P-1, FRP-1	GYP BD	P-1, FRP-1	GYP BD	P-1, FRP-1	GYP BD	P-1, FRP-1	--	--	--	PL-1	P-3	P-2	--	--	1,2,4
223	HALL	LVT-1,3	RB-1	GYP BD	P-1	GYP BD	P-1	GYP BD	P-1	GYP BD	P-1,4	--	--	--	--	--	ACT-1		--	
224	TOILET	SV-1	SV-1	GYP BD	P-4/FRL-1	GYP BD	P-4/FRL-1	GYP BD	P-4/FRL-1	GYP BD	P-4/FRL-1	--	--	--	PL-1	P-3	P-2	--	--	1
225	TOILET	SV-1	SV-1	GYP BD	P-4/FRL-1	GYP BD	P-4/FRL-1	GYP BD	P-4/FRL-1	GYP BD	P-4/FRL-1	--	--	--	PL-1	P-3	P-2	--	--	1
226	HALL	LVT-1,3	RB-1	GYP BD	P-1	--	--	GYP BD	P-4	--	--	--	--	--	--	--	DP-1	P-4	--	
227	CENTRAL STAIR	RF-1	RB-1	GYP BD	P-4	GYP BD	P-4	GYP BD	P-4	GYP BD	P-4	--	--	--	--	--	DP-1	P-4	--	
228	CONFERENCE	LVT-3	RB-1	GYP BD	P-1,DP-1	GYP BD	P-1	GYP BD	P-1	GYP BD	P-1	--	--	--	PL-1	P-3	P-2,DP-1	--	--	4,5
229	HALL	LVT-1,3	RB-1	GYP BD	P-4	--	--	GYP BD	P-1	--	--	--	--	--	--	--	ACT-1	P-2	--	
230	FILES	LVT-1	RB-1	GYP BD	P-1	GYP BD	P-1	GYP BD	P-1	GYP BD	P-1	PL-2	PL-1	SSM-1	--	P-3	ACT-1	--	--	
231	TOILET	SV-1	SV-1	GYP BD	P-4/FRL-1	GYP BD	P-4/FRL-1	GYP BD	P-4/FRL-1	GYP BD	P-4/FRL-1	--	--	--	PL-1	P-3	P-2	--	--	1
232	OFFICE	LVT-1,2	RB-1	GYP BD	P-1	GYP BD	P-1	GYP BD	P-5	GYP BD	P-1	--	--	--	PL-1	P-3	ACT-1	--	--	
233	OFFICE	LVT-1,2	RB-1	GYP BD	P-5	GYP BD	P-1	(E) CMU	P-1	GYP BD	P-1	--	--	--	PL-1	P-3	ACT-1	--	--	
234	VEST	LVT-1	RB-1	GYP BD	P-1	GYP BD	P-1	GYP BD	P-1	GYP BD	P-1	--	--	--	--	--	ACT-1	P-1	--	
235	SOUTH STAIR	RF-1	RB-1	(E) CMU	P-1	(E) CMU	P-1	(E) CMU	P-1	(E) CMU	P-1	--	--	--	--	--	ETR	--	--	

FINISH ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE	EXP	EXPOSED STRUCTURE	PRT	TOILET PARTITION	SV	SHEET VINYL	WT	WALL TILE
ACTS	ACOUSTICAL CEILING TILE WASHABLE	FF	FACTORY FINISH	PRV	PRIVACY CURTAIN	TB	TILE BASE	UON	UNLESS OTHERWISE NOTED
AWC	ACOUSTICAL WALL COVERING	FRL	FIBER-REINFORCED LAMINATE	PT	PORCELAIN TILE	TER	TERRAZZO		
AWP	ACOUSTICAL WALL PANEL	FRP	FIBERGLASS-REINFORCED PANEL	P-1	PAINT - SATIN	TRS	TRANSITION STRIP		
B	WALL BASE	FT	FLOOR TILE	P-1A	PAINT - SEMI-GLOSS	TT	TERRAZZO TILE		
BG	BUMPER GUARD	GL	GLASS	P-1E	PAINT - EPOXY	VCT	VINYL COMPOSITION TILE		
C	CONCRETE	HIC	HIGH IMPACT WALL COVERING	QRZ	QUARTZ SURFACING	VT	VINYL TILE		
CG	CORNER GUARD	HR	HANDRAIL	RAF	RUBBER ATHLETIC FLOORING	WB	WINDOW BLINDS		
CHR	CHAIR RAIL	LCK	LOCKERS	RB	RESILIENT BASE	WC	WALLCOVERING		
CPT	CARPET	LVT	LUXURY VINYL TILE	RF	RUBBER FLOORING	WCB	WALLCOVERING BORDER		
CR	CRASH RAIL	ME	MATCH EXISTING	RP	RESIN PANEL	WCT	WOOD CEILING PANELS		
CT	CERAMIC TILE	MTL	METAL	RT	RUBBER TILE	WD	WOOD		
DR	DOOR	NS	NATURAL STONE	SCB	SELF-COVE BASE	WOM	WALK-OFF MAT (CARPET)		
DWP	DECORATIVE WALL PANEL	PB	PROFILE WALL BASE (MITERED)	SCR	SHOWER CURTAIN	WP	WALL PROTECTION		
EPY	EPOXY	PG	PRESSED GLASS	SDT	STATIC-DISSIPATIVE TILE	WS	WINDOW SHADE		
ETR	EXISTING TO REMAIN	PL	PLASTIC LAMINATE	SSM	SOLID SURFACING MATERIAL	WSV	WELDED SHEET VINYL		

GENERAL NOTES

A. ALL INTERIOR WALL & CEILING FINISHES SHALL COMPLY WITH CBC TABLE 803.13 AND SECTION 803 (FLAME SPREAD RATINGS). PROVIDE A CLASS B (26-75 FLAME SPREAD RATING) AT ROOMS OR AREAS AND A CLASS A (0-25 FLAME SPREAD RATING) AT ALL EXITWAYS.
B. SEE INTERIOR ELEVATIONS, SECTIONS & REFLECTED CEILING FOR ADDITIONAL INFORMATION.
C. ALL ROOM FINISHES DESIGNATED AS EXISTING THAT ARE AFFECTED BY CONSTRUCTION SHALL BE PATCHED TO MATCH ADJACENT FINISHES SO THAT THERE SHALL BE NO DISCERNABLE DIFFERENCES BETWEEN NEW AND EXISTING SURFACES
D. ACOUSTICAL TILE, CARPETING & VINYL WALL FABRIC SAMPLES MUST BE SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION. CARPET SAMPLES MUST BE ACCOMPANIED BY A REPORT FROM A TESTING LABORATORY CERTIFYING A FLAME-SPREAD RATING OF 75 OR LESS AS PER ASTM-E84-21 STANDARD TEST FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS. ALSO ACCEPTABLE IS NBIR 78-1436 CERTIFYING A MINIMUM RATING OF 0.45 WATTS PER SQ. CENTIMETER FOR UNSPRINKLERED BUILDINGS AND 0.22 WATTS PER SQ. CENTIMETER FOR SPRINKLERED BUILDINGS.
E. ALL INTERIOR FLOOR FINISHES SHALL COMPLY WITH CBC SECTION 804.
F. WOOD GRAIN PLASTIC LAMINATES SHALL BE ORIENTED WITH THE GRAIN VERTICALLY (INCLUDING DRAWERS) SUCH THAT THE "GRAIN" MATCHES AND ALIGNED VERTICALLY FROM DRAWER TO DRAWER AND FROM DOOR TO DRAWER AS OCCURS.
G. ALL MECHANICAL GRILLS SHALL BE PAINTED TO MATCH ADJACENT WALL, OR CEILING COLOR.

ROOM FINISH REMARKS

1. INSTALL WAINSCOT 4'-0" ABOVE INTEGRAL COVED BASE.
2. USE MATCHING COLOR WELDING ROD AT ALL FLOORING SEAMS.
3. SEE SHEET ID200 FOR FLOOR FINISH LAYOUT PATTERNS.
4. SEE INTERIOR ELEVATIONS FOR WALL PANELING LOCATIONS.
5. SEE REFLECTED CEILING PLAN FOR CEILING MATERIAL LOCATIONS.

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REVISIONS

If drawing is not 42" x 30" it is a reduced print

LICENSE STAMPS

LICENSED ARCHITECT STEVEN R. CARTER C - 34730 REN 5/31/25 STATE OF CALIFORNIA

KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE EUREKA, CA 95501

SHEET TITLE

FINISH SCHEDULE

DRAWING STATUS
CONSTRUCTION DOCUMENTS

Drawn By	GCP
Date Issued	06.01.2023
Scale	12" = 1'-0"
Project No.	22-6507

SHEET No.

A900

Plot Date: 6/5/2023 1:53:49 PM
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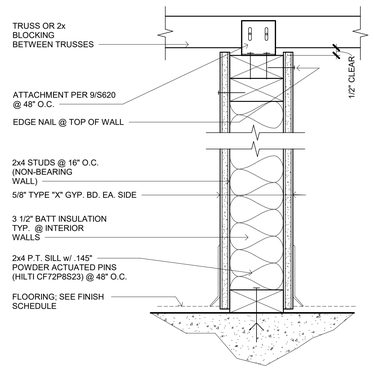
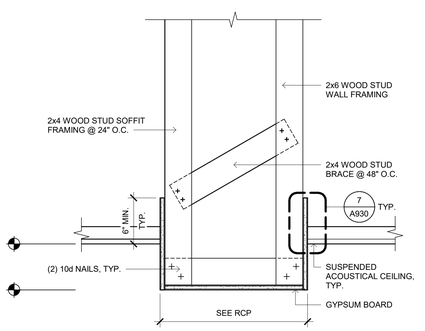


A410 — A930

TOP OF WALL PARTITION ATTACHMENT (PERPENDICULAR TO FRAMING) — 17

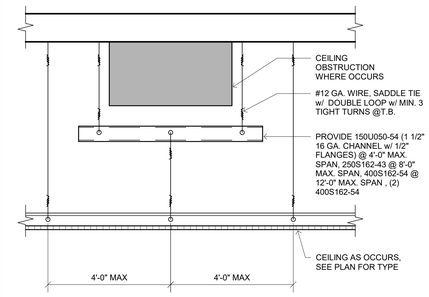
SCALE: 3" = 1'-0"



A930

SUSPENDED SOFFIT AT ACOUSTICAL CEILING — 13

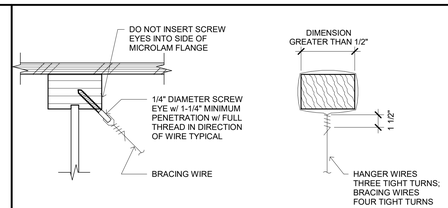
SCALE: 1 1/2" = 1'-0"



A930

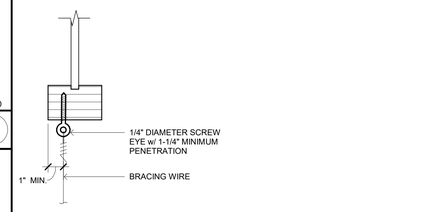
SUSPENDED ACOUSTICAL CEILING SUPPORT AT OBSTRUCTION — 9

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



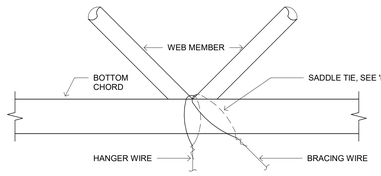
A. BRACE AT JOIST

B. TYPICAL SADDLE TIE



C. HANGER AT JOIST

NOTE:
DO NOT INSERT SCREW EYES PARALLEL TO LAMINATIONS (SEE A.), DETAIL MAY ALSO BE USED AT TOP CHORD



D. BRACING WIRE PARALLEL TO WOOD TRUSS

SUSPENDED ACOUSTICAL CEILING SEISMIC BRACING WIRE ATTACHMENT — 6

SCALE: N.T.S.

SUSPENDED CEILING NOTES:

1. 12 gauge (8 gauge at gypsum board) hanger wires may be used for up to and including four feet by four feet grid spacing along main runners. Splices will not be permitted in any hanger wires.
   See detail
2. Provide 12 gauge (8 gauge at gypsum board) hanger wires at the ends of all main and cross runners within 8" from the support or within 1/4 of the length of the end tee, whichever is least, for the perimeter of the ceiling area. End connections for runners (which are designed and detailed to resist the applied horizontal forces) may be used in lieu of the 12 gauge hanger wires, subject to agency review and approval.
3. Provide trapeze or other supplementary support members at obstructions to main hanger spacing. Provide additional hangers, struts or braces as required at all ceiling breaks, soffits or discontinuous areas. Hanger wires that are more than 1 in 6 out of plumb wall shall have counter-sloping wires.
4. Ceiling grid members may be attached to not more than two adjacent walls. Ceiling grid members should be at least 1/2 inch free of other walls, If walls run diagonally to ceiling grid system runners, one end of main and cross runners should be free and a minimum of 1/2" clear of wall. See detail
5. At the perimeter of the ceiling area where main or cross runners are not connected to the adjacent wall, provide interconnection between the runners at the free end to prevent lateral spreading. A metal strut or 16 gauge wire with a positive mechanical connection to the runner may be used. Where the perpendicular distance from the wall to the first parallel runner is 12" or less, this interlock is not required. See detail
6. Provide sets of four 12 gauge splayed bracing wires oriented 90 degrees from each other at not more than 12 feet by 12 feet on center. Provide bracing wires at locations not more than 1/2 of the above spacings from each perimeter wall and at the edge of vertical ceiling offsets. The slope of these wires should not exceed 45 degrees from the plane of the ceiling and should be taut without causing the ceiling to lift. Splices in bracing wires are not to be permitted. See detail
7. Fasten hanger wires with not less than three tight turns. Fasten bracing splay wires with four tight turns. Make all tight turns within a distance of 1-1/2 inches. Hanger or bracing wire anchors to the structure should be installed in such a manner that the direction of the wire aligns as closely as possible with the direction of the forces acting on the wire.
8. Separate all ceiling hanging and bracing wires at least 6 inches from all unbraced ducts, pipes, conduit, etc. It is acceptable to attach lightweight items, such as single electrical conduit not exceeding 3/4" nominal diameter, to hanger wires using connectors acceptable to U.B.C.
9. Attach all light fixtures to the ceiling grid runners to resist a horizontal force equal the weight of the fixtures.
10. Flush or recessed light fixtures and air terminals or services weighing less than 56 pounds may be supported directly on the runners of heavy duty grid system but, in addition, they must have a minimum of two 12 gauge slack safety wires attached to the fixture at diagonal corners and anchored to the structure above.

    All flush or recessed light fixtures and air terminals or services weighing 56 pounds or more must be independently supported by not less than four taut 12 gauge wires each attached to the fixture and to the structure above regardless of the type of ceiling grid system used.

    The four taut 12 gage wires including their attachment to the structure above must be capable of supporting 4-times the weight of the unit.
11. All fixtures and air terminals or services supported on intermediate duty grid systems must be independently supported by not less than four taut 12 gauge. wires each attached to the fixture or terminal and to the structure above.
12. Support surface mounted light fixtures by at least two positive devices which surround the ceiling runner and which are each supported from the structure above by a 12 gauge wire. Spring clips or clamps that connect only to the runner are not acceptable. Provide additional supports when light fixtures are 8 feet or longer.
13. Support pendant mounted light fixtures directly from the structure above with hanger wires or cables passing through each pendant hanger and capable of supporting 4-times the weight of the fixture.
14. Lay-in ceiling assemblies in exit ways shall be installed with a main runner or cross runner surrounding all sides of each piece of tile board or panel and each light fixture or grill splices and intersections of such runners shall be attached with through connectors such as pop rivets, screws, pins, plates with bent tabs or by other approved connectors. Expansion joints shall be provided in the ceiling at intersections of corridors and at junctions of corridors and lobbies or other similar areas.
15. Suspended acoustical ceiling systems shall comply with 2019 CBC (2018 IBC), ASTM C635, ASTM C636, CISCA (FOR SEISMIC ZONES 3 & 4), AND ASCE 7.05. No vertical loads other than gypsum board dead load should be applied to cross-furring.
16. All penetrations through the suspended acoustical ceiling system shall have a minimum 2" clearance around the penetration, such as but not limited to fire sprinklers.

GENERAL CEILING NOTES:

ALL WORK SHALL COMPLY WITH 2019 CBC (2018 IBC), ASTM C635, ASTM C636, CISCA (FOR SEISMIC ZONES 3 & 4), AND ASCE 7.05 PARTICULAR ATTENTION IS DIRECTED TO INDEPENDENT SUSPENSION OF FIXTURES, DUCTS, DIFFUSERS, GRID INTERSECTIONS, SPLICES, PERIMETER DETAILS AND SEISMIC REQUIREMENTS.

NOTES:

1. The 2x4 sub-purlins, located in the roof in a typical type tilt-up structure, are not considered to be structural members.
2. The strut shall be vertical, and shall not hang more than 1 in 6 out-of-plumb.
3. Struts shall be designed in accordance with chapter 22 Steel, 2019 Edition of the California Building Code (2018 IBC).

PIPE:

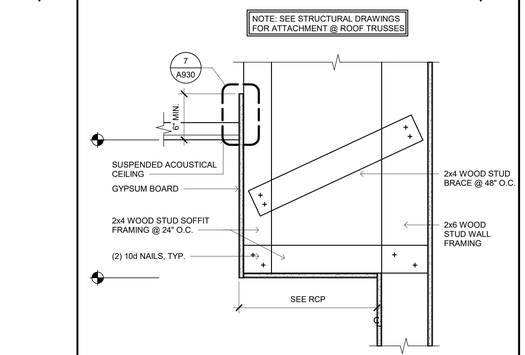
ACCEPTABLE STRUT SIZES AND LENGTHS

TRADE SIZE	ALLOWABLE LENGTH	
	EMT	IMC or RMC
1/2"	3'-10"	4'-4"
3/4"	5'-2"	5'-7"
1"	6'-6"	7'-0"
1 1/4"	8'-6"	9'-0"
1 1/2"	9'-10"	10'-5"
2"	—	13'-2"

EMT - Electrical Metallic Tubing
IMC - Intermediate Metal Conduit
RMC - Rigid Metal Conduit

SUSPENEDED ACOUSTICAL CEILING NOTES

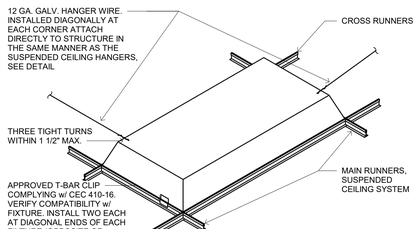
SCALE: N.T.S.



A410 — A930

GYPSUM BOARD SOFFIT AT SUSPENDED CEILING — 14

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

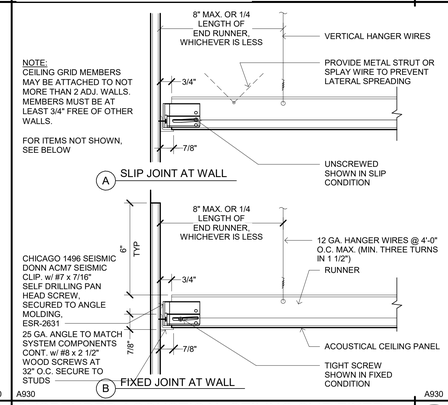


NOTES:
1. FIXTURES IN A FIRE RATED SYSTEM SHALL BE PROTECTED WITH A FIVE SIDED ENCLOSURE, AS DESCRIBED IN THE LISTED ASSEMBLY (NOT SHOWN).
2. RECESSED LIGHT FIXTURES AND AIR TERMINALS, WEIGHING LESS THAN 56 LBS. MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM, BUT MUST HAVE A MIN. OF TWO 12 GA. SLACK SAFETY WIRES ATTACHED TO THE FIXTURE AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE.
3. ALL FIXTURES WEIGHING 56 LBS. OR MORE MUST BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR TAUT 12 GA. WIRES EACH ATTACHED TO THE STRUCTURE ABOVE. ALL FIXTURES SUPPORTED ON INTERMEDIATE DUTY GRID SYSTEMS MUST BE INDEPENDENTLY SUPPORTED, AS DESCRIBED ABOVE.

A930

SUSPENDED CEILING FIXTURE SUPPORT — 10

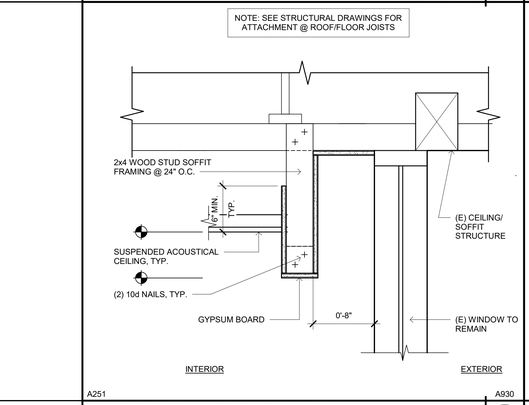
SCALE: 1/2" = 1'-0"



A930

SUSPENDED ACOUSTICAL CEILING SLIP/FIXED CONDITION AT WALL — 7

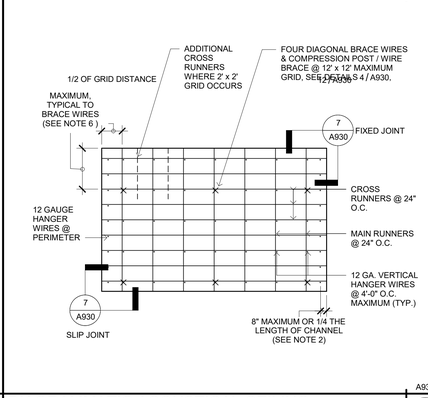
SCALE: 3" = 1'-0"



A251 — A930

SUSPENDED SOFFIT AT WINDOW — 15

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



A930

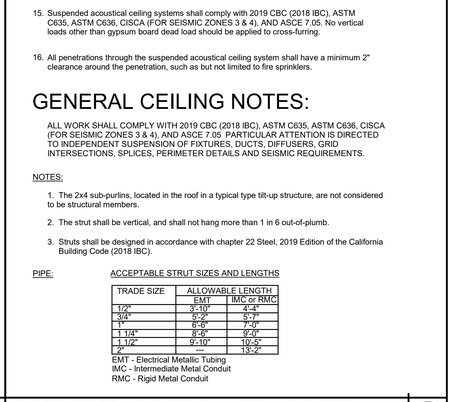
DIAGRAMMATIC ACOUSTICAL CEILING SUSPENSION SYSTEM PLAN — 11

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

A930

SEISMIC BRACING AT WOOD WALL FRAMING — 8

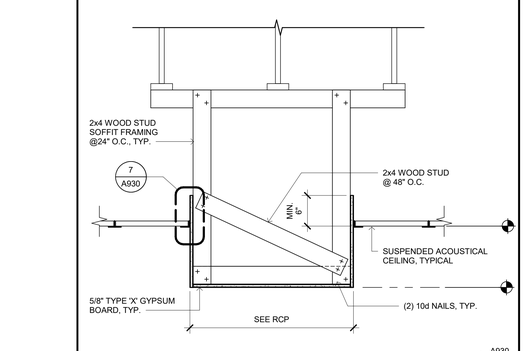
SCALE: 3" = 1'-0"



A930

SUSPENDED ACOUSTICAL CEILING COMPRESSION POST & WIRE BRACING — 4

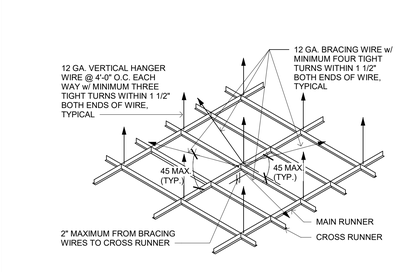
SCALE: 1/2" = 1'-0"



A930

GYP. BOARD SOFFIT PARALLEL TO TRUSSES — 16

SCALE: 1" = 1'-0"



A930

DIAGRAMMATIC ACOUSTICAL CEILING SUSPENSION SYSTEM PLAN — 12

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

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REVISIONS

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LICENSE STAMPS

LICENSED ARCHITECT
STEVEN R. CANTAL
C - 34730
REN. 5/31/25
STATE OF CALIFORNIA

KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE EUREKA, CA 95501

SHEET TITLE

CEILING DETAILS

DRAWING STATUS
CONSTRUCTION DOCUMENTS

Drawn By	GCP
Date Issued	06.01.2023
Scale	As indicated
Project No.	22-6507

SHEET No.

A930

Plot Date: 8/2/2023 1:24:47 PM
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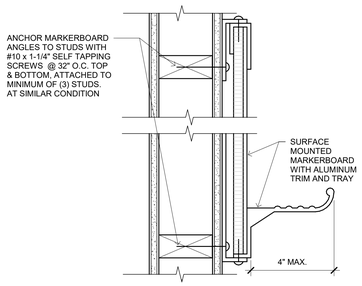
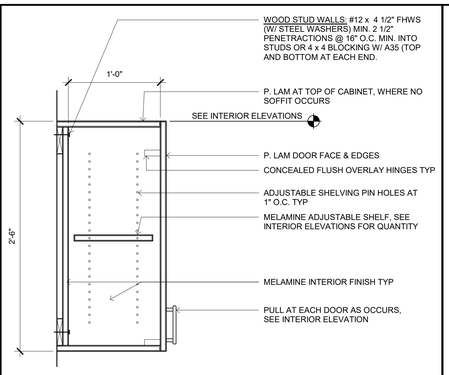
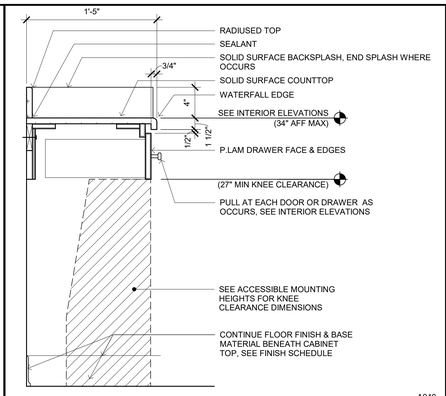


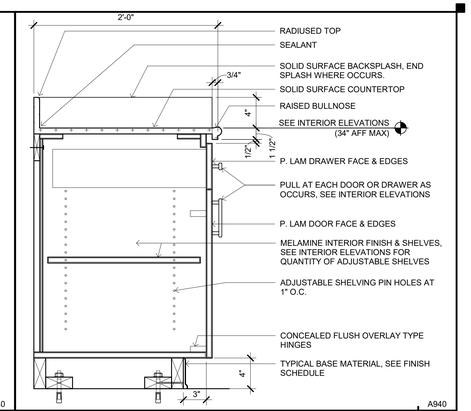
VISUAL DISPLAY BOARD — A940 / 17
SCALE: 3" = 1'-0"



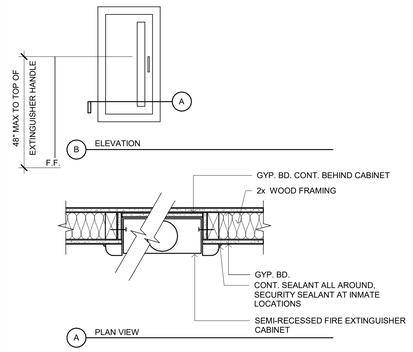
UPPER CABINET — A940 / 9
U1
SCALE: 1 1/2" = 1'-0"



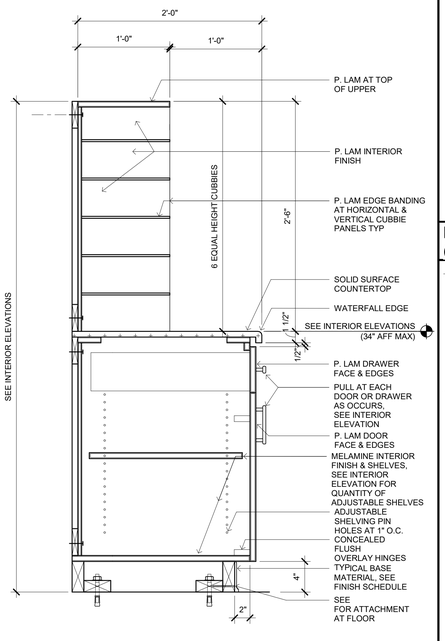
BASE CABINET W/ DRAWER (WATERFALL EDGE) — A940 / 5
B2
SCALE: 1 1/2" = 1'-0"



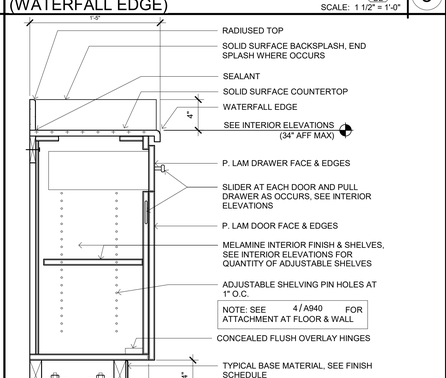
BASE CABINET W/ DOOR & DRAWER (RAISED BULLNOSE) — A940 / 1
B1
SCALE: 1 1/2" = 1'-0"



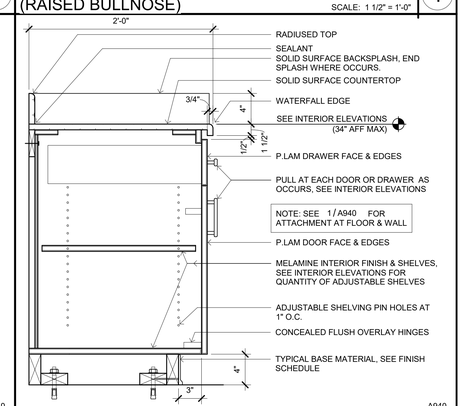
SEMI-RECESSED FIRE EXTINGUISHER CABINET — A940 / 18
SCALE: 1 1/2" = 1'-0"



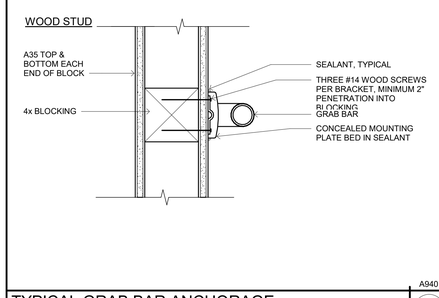
FULL-HEIGHT CABINET W/ MAIL SLOTS — A940 / 10
S1
SCALE: 1 1/2" = 1'-0"



BASE CABINET W/ SLIDING DOOR & DRAWER (WATERFALL EDGE) — A940 / 6
B6
SCALE: 1 1/2" = 1'-0"

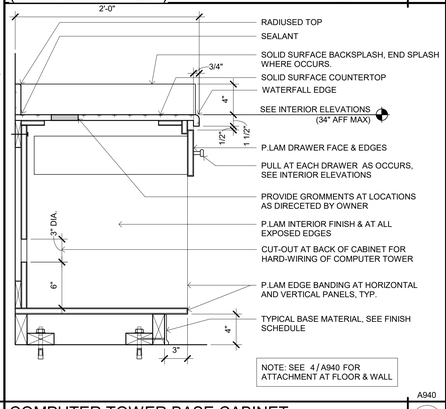


BASE CABINET W/ DOOR & DRAWER (WATERFALL EDGE) — A940 / 2
B2
SCALE: 1 1/2" = 1'-0"

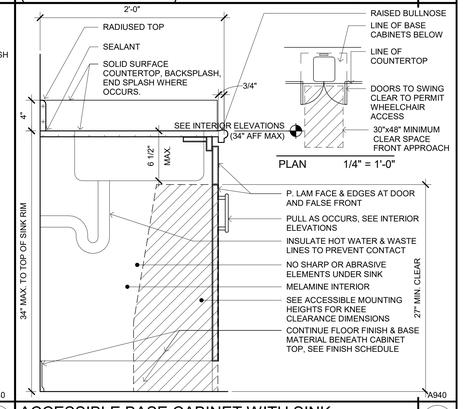


TYPICAL GRAB BAR ANCHORAGE — A940 / 19
SCALE: 3" = 1'-0"

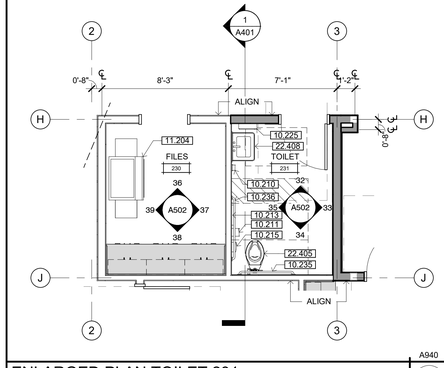
FULL-HEIGHT CABINET W/ MAIL SLOTS — A940 / 10
S1
SCALE: 1 1/2" = 1'-0"



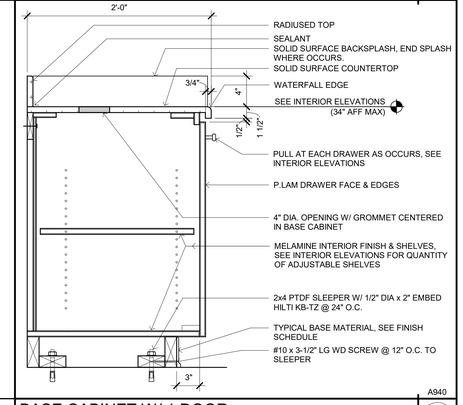
COMPUTER TOWER BASE CABINET — A940 / 7
B7
SCALE: 1 1/2" = 1'-0"



ACCESSIBLE BASE CABINET WITH SINK — A940 / 3
B3
SCALE: 1 1/2" = 1'-0"



ENLARGED PLAN TOILET 231 — A940 / 20
SCALE: 1/4" = 1'-0"



BASE CABINET W/ 1 DOOR (WATERFALL EDGE) — A940 / 4
B4
SCALE: 1 1/2" = 1'-0"

Plot Date: 6/2/2023, 12:48 PM
File Name: A:\Clients\Humboldt County Probation\A_HCJ-PROBATION.rvt

NICHOLS MELBURG & ROSSETTO
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LICENSE STAMPS

KEY PLAN

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COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE EUREKA, CA 95501

SHEET TITLE

CASEWORK & MISC INTERIOR DETAILS

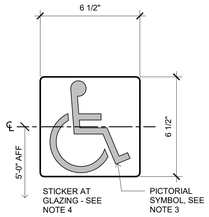
DRAWING STATUS
CONSTRUCTION DOCUMENTS

Drawn By	GCP
Date Issued	06.01.2023
Scale	As indicated
Project No.	22-6507

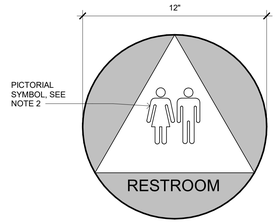
SHEET No.

A940

SIGN TYPES

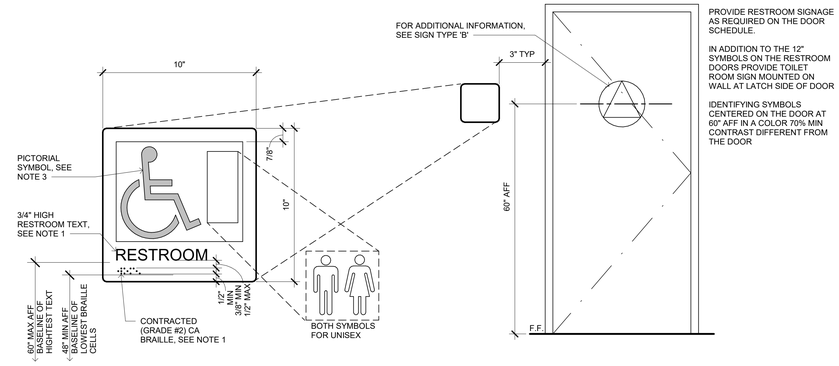


A ACCESSIBLE ENTRANCE IDENTIFICATION
3" = 1'-0"



UNISEX FACILITY DOORS HALL HAVE A 12" DIAMETER CIRCLE 1/4" THICK AND A 1/4" THICK TRIANGLE INSCRIBED AND SUPERIMPOSED ON THE CIRCLE. CIRCLE SHALL BE A COLOR TO CONTRAST BOTH DOOR & TRIANGLE.

B TOILET ROOM DOOR SYMBOLS
3" = 1'-0"

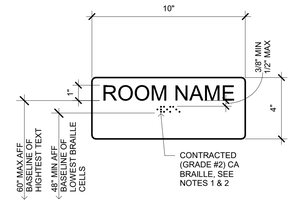


PROVIDE RESTROOM SIGNAGE AS REQUIRED ON THE DOOR SCHEDULE.

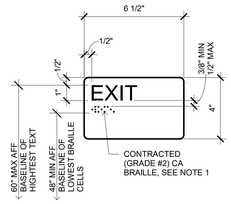
IN ADDITION TO THE 12" SYMBOLS ON THE RESTROOM DOORS PROVIDE TOILET ROOM SIGN MOUNTED ON WALL AT LATCH SIDE OF DOOR

IDENTIFYING SYMBOLS CENTERED ON THE DOOR AT 60" AFF IN A COLOR 70% MIN CONTRAST DIFFERENT FROM THE DOOR

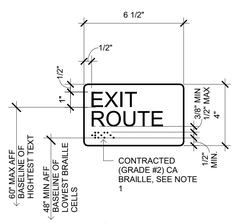
C TOILET ROOM
3" = 1'-0"



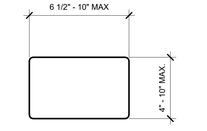
D ROOM IDENTIFICATION
3" = 1'-0"



E EXIT
3" = 1'-0"

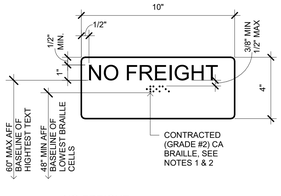


F EXIT ROUTE
3" = 1'-0"



*NOTE: MATCH SIZE AND ALIGN WITH SIGN TYPE 'E', 'F', 'H' AND 'I' WHEN SIGN OCCURS AT SIDE LIGHT

BLANK BACKER PLATE FOR EXIT AND EXIT ROUTE
G 3" = 1'-0"



H NO FREIGHT
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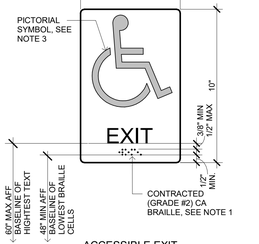
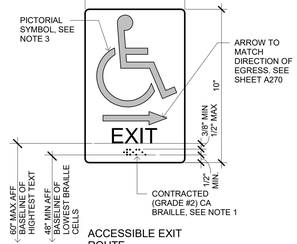


J ACCESSIBLE EXIT
3" = 1'-0"



ACCESSIBLE EXIT ROUTE
K 3" = 1'-0"

SIGNAGE NOTES

1. WHERE VISUAL IDENTIFICATION (SIGNAGE) IS PROVIDED FOR ROOMS OR SPACES, RAISED LETTERS (RAISED 1/32" MIN) SANS SERIF FONT (UPPERCASE LETTERS) SHALL BE PROVIDED AND SHALL BE ACCOMPANIED BY BRAILLE IN CONFORMANCE WITH THE FOLLOWING: CONTRACTED (GRADE 2) BRAILLE SHALL BE USED AND SHALL COMPLY WITH CBC SECTIONS 11B-703.3 AND 11B-703.4. DOTS SHALL BE 1/10" ON CENTER IN EACH CELL WITH 3/10" SPACE BETWEEN CELLS. DOTS SHALL BE RAISED A MINIMUM 1/40" ABOVE BACKGROUNDS. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. SIGNS WITH RAISED CHARACTERS AND BRAILLE SHALL BE LOCATED 48" MIN. AFF OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST LINE OF BRAILLE AND 60" MAX AFF OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS. CHARACTERS, SYMBOLS AND THEIR BACKGROUND SHALL HAVE A NONGLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND.

   1.1 BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE, CBC 11B-703.3.1.

   1.2 BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT, FLUSH LEFT OR CENTERED. BRAILLE SHALL BE PLACED BELOW ENTIRE TEXT AND SEPARATED 3/8" MIN. AND 1/2" MAX. FROM ANY OTHER TACTILE CHARACTERS AND 3/8" MIN. FROM RAISED BORDERS AND DECORATIVE ELEMENTS.

2. BRAILLE DIMENSIONS PER CBC TABLE 11B-703.3.1:

   2.1 DOT BASE DIA SHALL BE .059" - .063".

   2.2 DISTANCE BETWEEN TWO DOTS IN THE SAME CELL SHALL BE .100"

   2.3 DISTANCE BETWEEN CORRESPONDING DOTS IN ADJACENT CELLS SHALL BE .300"

   2.4 DOT HEIGHT SHALL BE .025" - .037"

   2.5 DISTANCE BETWEEN CORRESPONDING DOTS FROM ONE CELL DIRECTLY BELOW SHALL BE .395" TO .400"

3. PICTORIAL SYMBOL SIGN: THE OUTSIDE DIMENSION OF THE PICTOGRAM FIELD SHALL BE A MINIMUM OF 6" IN HEIGHT

4. PERMANENT NON-REMOVABLE SELF ADHESIVE STICKER WITH WHITE GRAPHIC ON BLUE BACKGROUND. THE BLUE SHALL BE COLOR NO. 15090 IN FEDERAL STANDARD 595B.

5. ALL SIGNAGE SHALL BE INSPECTED BY FIELD DEPUTY DURING CONSTRUCTION.

ILLUMINATED EMERGENCY EGRESS SIGN NOTES:

A. INTERNALLY ILLUMINATED EXIT SIGNS SHALL COMPLY WITH 2019 CBC SECTION 1013.5.

B. EXTERNALLY ILLUMINATED EXIT SIGNS SHALL COMPLY WITH 2019 CBC SECTION 1013.6.

C. TEXT SHALL BE PLAINLY LEGIBLE LETTERS

D. MINIMUM TEXT HEIGHT TO BE 6" MIN. WITH PRINCIPAL STOKE OF 3/4" MIN. AND SPACING BETWEEN LETTERS TO BE 3/8" MIN.

E. IF A DIRECTIONAL INDICATOR (ARROW) IS PROVIDED, THE CONSTRUCTION WILL BE AS SUCH THAT THE INDICATOR CAN NOT BE READILY CHANGED.

F. SIGN TEXT WILL BE IN HIGH CONTRAST WITH THE BACKGROUND PER 2019 CBC SECTION 11B-703.5.1.

G. ALL EXIT SIGNS WILL BE ILLUMINATED AT ALL TIMES.

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2002 HARRISON AVENUE
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A960

Plot Date: 6/2/2023 1:24:48 PM
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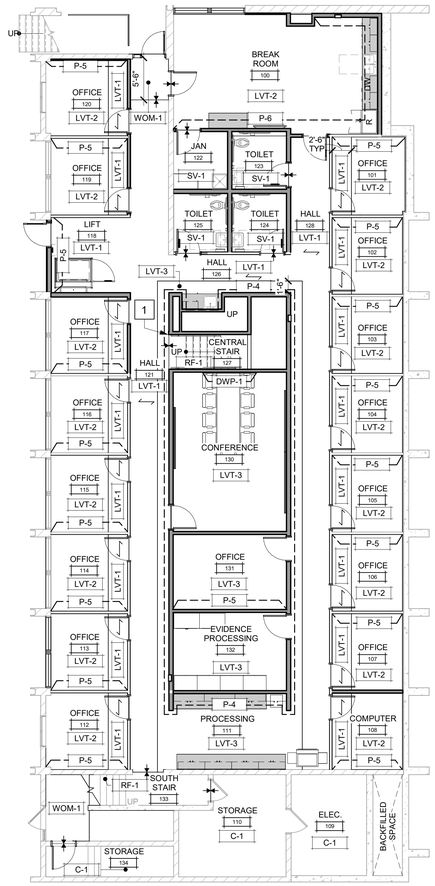

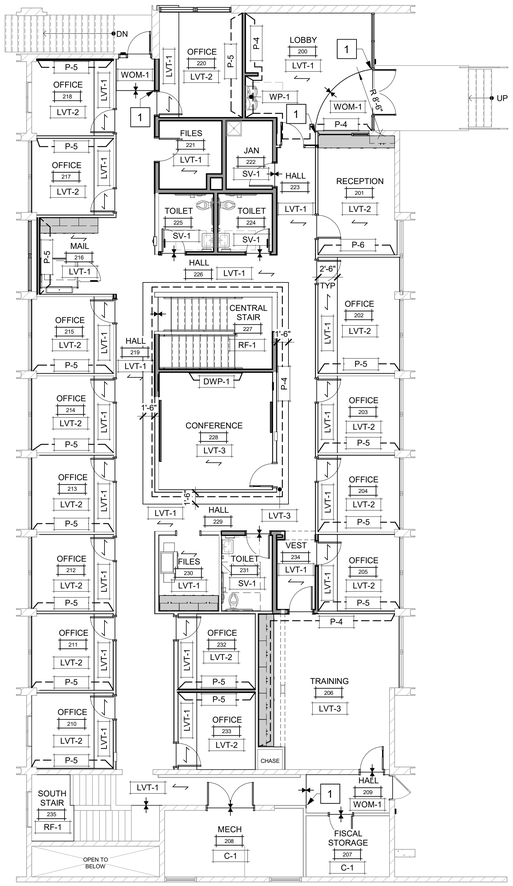

NORTH

NEW FIRST FLOOR FINISH PLAN

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

NORTH

NEW SECOND FLOOR FINISH PLAN

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

GENERAL FINISH NOTES

1. NO SUBSTITUTIONS WILL BE PERMITTED WITHOUT WRITTEN APPROVAL FROM ARCHITECT / DESIGNER.
2. RESILIENT WALL BASE SHALL BE ROLL GOODS IN THE SPECIFIED HEIGHT AND PROFILE.
3. THIS SHEET TO BE USED IN CONJUNCTION WITH THE FINISH SCHEDULE, FURNISHINGS MANUAL, AND PROJECT MANUAL.
4. CONTRACTOR SHALL PROVIDE ATTIC STOCK TO OWNER IN INCREMENTS INDICATED IN PROJECT MANUAL.
5. FOR ALL PRODUCTS INSTALLED, NOTE INDUSTRY STANDARDS AND MANUFACTURER SPECIFICATIONS FOR INSTALLATION.
6. DO NOT PAINT ANY FACTORY FINISHED ITEMS.
7. MISCELLANEOUS METAL, I.E. RETURN AND AIR SUPPLY GRILLES, EXPANSION JOINTS, ETC. SHALL BE PAINTED TO MATCH THE ADJACENT WALL SURFACE.
8. ALL INTERIOR FINISHES SHALL MEET CLASS A FLAME SPREAD RATING OF 25 OR LESS AND SHALL HAVE A SMOKE DEVELOPMENT OF 250 OR LESS.
9. ALL FLOOR REDUCER / THRESHOLDS SHALL BE LOCATED AT THE CENTER LINE OF DOOR WHEN IN THE CLOSED POSITION AND MEET ACCESSIBILITY REQUIREMENTS. REFER TO SHEET AE571.00 FOR DETAILS.
10. ALL INTERIOR FLOORING SHALL MEET CLASS I AND CLASS II.
11. CAULK ALL DOORS, FRAMES AND MILLWORK. COLOR TO MATCH ADJACENT SURFACE.
12. ALL SURFACES TO BE PAINTED SHALL RECEIVE TWO COATS. PREP SURFACE PER PAINT MANUFACTURER'S RECOMMENDATIONS. ALL METAL TRIM AND SASH SHALL RECEIVE TWO COATS OF PAINT OVER MANUFACTURER RECOMMENDED PRIMER COAT. ALL APPLICATIONS SHALL USE MANUFACTURER RECOMMENDED EXTENDER AGENTS IN ORDER TO REDUCE BRUSH MARKS.
13. ALL COLORS SHALL BE AS PER THE FINISH SCHEDULE UNLESS WRITTEN APPROVAL FROM THE ARCHITECT / DESIGNER.
14. THE WORD "CLEAR" INDICATES CRITICAL DIMENSIONS FOR ACCESSIBILITY EQUIPMENT OR FUNCTIONAL CLEARANCES FROM FACE OF FINISH TO FACE OF FINISH.
15. THRESHOLDS AT DOORWAYS AND TRANSITION STRIPS SHALL NOT EXCEED 1/2" IN HEIGHT. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES AT ACCESSIBLE DOORWAYS SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.
16. TURN OVER EXISTING FURNITURE TO OWNER IN AREAS WHERE FURNITURE IS REPLACED WITH NEW.
17. ARROWS ON FLOOR PATTERN PLANS INDICATE DIRECTION OF LONG SIDE OF FLOORING PRODUCTS.
18. FRAME OF DOOR LITE SHALL BE PAINTED TO MATCH ADJACENT DOOR FINISH.
19. GROUT JOINT FROM FLOOR TILE TO WALL TILE TO ALIGN WHERE POSSIBLE.

FINISH LEGEND

- TRANSITION OF FLOORING MATERIAL - SEE DETAIL 10/A980
- FINISH — FINISH TAG (SEE FINISH SCHEDULE FOR ALL FINISH LOCATIONS)
- FINISH — LOCATION OF ACCENT WALL FINISH
- DIRECTION OF FLOORING PATTERN

SHEET NOTES

1. ALIGN WITH CORNER.

Plot Date: 6/1/2023 1:27:42 PM
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REVISIONS

If drawing is not 42" x 30" it is a reduced print

LICENSE STAMPS

LICENSED ARCHITECT STEVEN R. CARTER C-34730 REN 5/31/25 STATE OF CALIFORNIA

KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE EUREKA, CA 95501

SHEET TITLE

FIRST & SECOND FINISH FLOOR PLANS

DRAWING STATUS
CONSTRUCTION DOCUMENTS

Drawn By	MK
Date Issued	06.01.2023
Scale	As indicated
Project No.	22-6507

SHEET No.

ID200

ABBREVIATIONS

A.B.	ANCHOR BOLTS	GA.	GAGE	PLC'S.	PLACES
ABT.	ABOUT	GALV.	GALVANIZED	PL.	PLATE
ADDL.	ADDITIONAL	GL	GLU-LAMINATED	PLY.	PLYWOOD
ADJ.	ADJACENT	G/N	GANG-NAIL TRUSS	P.M.D.	PLY-METAL DRILLERS
AGGR.	AGGREGATE	GYP.	GYPSUM	PREFAB.	PRE-FABRICATED
ANC.	ANCHOR			PARA.	PARALLEL
APPROX.	APPROXIMATE	HCAI	CALIFORNIA DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION	PSF	POUNDS PER SQUARE FOOT
APVD.	APPROVED			PSI	POUNDS PER SQUARE INCH
ARCH.	ARCHITECT			PSL	PARALLEL STRAND LUMBER
ASPH.	ASPHALT	HD.	HOLDDOWN	P/T	POST TENSIONING
		HDR.	HEADER	P.T.D.F.	PRESSURE TREATED DOUGLAS FIR
BD.	BOARD	HORIZ.	HORIZONTAL		
BLDG.	BUILDING	HSA	HEADED STUD ANCHOR	(R)	REPLACE
BLK.	BLOCK	H.S.B.	HIGH STRENGTH BOLTS	RAD, R.	RADIUS
BLK'G.	BLOCKING	HSS	HOLLOW STRUCTURAL SECTION	REF.	REFERENCE, REFER TO
BM.	BEAM	HT.	HEIGHT	REINF.	REINFORCING
B.N.	BOUNDARY NAIL			REBAR	REINFORCING STEEL BAR
B.O.	BOTTOM OF	I.D.	INSIDE DIAMETER	REQ'D.	REQUIRED
BOT.	BOTTOM	I.F.	INSIDE FACE	REV.	REVISED, REVISION
BRNG.	BEARING	IN.	INCH	RF	ROOF
BTWN.	BETWEEN	INT.	INTERIOR	R.H.W.S.	ROUND HEAD WOOD SCREWS
				RM.	ROOM
CANTIL.	CANTILEVER	JST.	JOIST	RS	ROUGH SAWN
CBC	CALIFORNIA BUILDING CODE	JT.	JOINT		
C.J.	CONTROL JOINT			S	SNOW LOAD
CLG.	CEILING	K	KIP, KILO-POUND	S.A.D.	SEE ARCHITECTURAL DRAWING
CL	CENTERLINE			SCHED.	SCHEDULE
CLR.	CLEAR	L	ANGLE	SDS	SIMPSON 'STRONG DRIVE SCREW'
CMU	CONCRETE MASONRY UNIT	LB.	POUND	SECT.	SECTION
COL.	COLUMN	LL	FLOOR LIVE LOAD	SHT.	SHEET
CONC.	CONCRETE	Lr	ROOF LIVE LOAD	SHTG.	SHEATHING
CONN.	CONNECTION	L.L.H.	LONG LEG HORIZONTAL	SIM.	SIMILAR
CONST.	CONSTRUCTION	L.L.V.	LONG LEG VERTICAL	S.O.G.	SLAB ON GRADE
CONT.	CONTINUOUS	LOCS.	LOCATIONS	SPEC.	SPECIFICATION
CSK.	COUNTERSINK	LONGL.	LONGITUDINAL	SQ.	SQUARE
		LT.WT.	LIGHT WEIGHT	STD.	STANDARD
D	DEAD LOAD	LSL	LAMINATED STRAND LUMBER	STIFF.	STIFFENER
DBL.	DOUBLE	LVL	LAMINATED VENEER LUMBER	STL.	STEEL
DET.	DETAIL			STRUCT.	STRUCTURAL
D.F.L.	DOUGLAS FIR, LARCH	MACH.	MACHINE	S.T.S.	SELF-TAPPING SCREW
DIA.	DIAMETER	MATL.	MATERIAL	S.W.	SHEAR WALL
DIAG.	DIAGONAL	MAX.	MAXIMUM	SYM.	SYMMETRICAL
DIM.	DIMENSION	M.B.	MACHINE BOLT		
DML.	DEMOLISH, DEMOLITION	MECH.	MECHANICAL	T.&B.	TOP & BOTTOM
DO.	REPEAT	MEZZ.	MEZZANINE	T.&G.	TONGUE & GROOVE
DP.	DEEP	MFR.	MANUFACTURER	THK.	THICK
DWG.	DRAWING	MIN.	MINIMUM	T.N.	TOE NAIL
		MISC.	MISCELLANEOUS	T.O.F.	TOP OF FOOTING
		M.I.W.	MALLEABLE IRON WASHER	T.O.PL.	TOP OF PLATE
(E)	EXISTING	MTL.	METAL	T.O.S.	TOP OF SLAB
EA.	EACH			T.O.SHTG.	TOP OF SHEATHING
E.F.	EACH FACE	(N)	NEW	T.O.STL.	TOP OF STEEL
ELEV.	ELEVATION OR ELEVATOR	NO.	NUMBER	TRANS.	TRANSVERSE
EMBED.	EMBEDMENT	NOM.	NOMINAL	TS	TUBE STEEL, SEE 'HSS'
E.N.	END NAIL OR EDGE NAIL	N.S.A.	NELSON STUD ANCHOR	TYP.	TYPICAL
ENG.	ENGINEER	N.T.S.	NOT TO SCALE		
E.W.	EACH WAY			U.O.N.	UNLESS OTHERWISE NOTED
EXT.	EXTERIOR	O/	OVER		
		O.C.	ON CENTER	VERT.	VERTICAL
FDN.	FOUNDATION	O.D.	OUTSIDE DIAMETER		
F.F.	FINISH FLOOR	O.F.	OUTSIDE FACE	W.P.	WORK POINT
F.G.	FINISH GRADE	O.H.	OPPOSITE HAND	W/	WITH
FLR.	FLOOR	OPNG.	OPENING	W/O	WITHOUT
F.N.	FIELD NAIL	OPP.	OPPOSITE	W, WF	WIDE FLANGE STEEL SECTION
F.O.C.	FACE OF CONCRETE	ORIG.	ORIGINAL	W.W.F.	WELDED WIRE FABRIC
F.O.M.	FACE OF MASONRY	O.S.B.	ORIENTED STRAND LUMBER		
F.O.S.	FACE OF STUD	O.W.G.	OPEN WEB GIRDER	&	AND
FRMG.	FRAMING	O.W.J.	OPEN WEB JOIST	@	AT
FT.	FOOT	O.W.T.	OPEN WEB TRUSS	X	BY
FTG.	FOOTING			=	EQUALS
FURR.	FURRING	P.A.F.	POWDER ACTUATED FASTENER	#	POUNDS, NUMBER
		PEN.	PENETRATION		
		PERP.	PERPENDICULAR		

NAILING SCHEDULE: TABLE 2304.10.1

	CONNECTION	NAILING
1.	BLOCKING BETWEEN CEILING JOISTS, RAFTERS OR TRUSSES TO TOP PLATE OR OTHER FRAMING BELOW, TOENAIL BLOCKING BETWEEN RAFTERS OR TRUSS NOT AT THE WALL TOP PLATE TO RAFTER OR TRUSS, TOENAIL	3- 8d 2- 8d
	FLAT BLOCKING TO TRUSS AND WEB FILLER, FACE NAIL	10d @ 6" O.C.
2.	CEILING JOISTS TO PLATE, TOENAIL	3- 8d
3.	CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	3- 16d
4.	CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	TABLE 2308.7.3.1
5.	COLLAR TIE TO RAFTERS, FACE NAIL	3- 10d
6.	RAFTERS OR TRUSS TO PLATE, TOE NAIL	3- 10d
7.	ROOF RAFTERS TO RIDGE VALLEY OR HIP RAFTERS, TOE NAIL	3- 10d
8.	STUD TO STUD, FACE NAIL	10d @ 6" O.C.
9.	STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS, FACE NAIL	16d @ 16" O.C.
10.	BUILT-UP HEADER, FACE NAIL	16d @ 16" O.C.
11.	CONTINUOUS HEADER TO STUD, TOE NAIL	4- 8d
12.	TOP PLATE TO TOP PLATE, FACE NAIL	16d @ 16" O.C.
13.	TOP PLATE TO TOP PLATE, AT END JOINTS	8- 16d EA. SIDE OF SPLICE, U.O.N.
14.	SILL PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING, FACE NAIL	16d @ 16" O.C.
15.	SILL PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING AT BRACED WALL PANEL, FACE NAIL	2- 16d @ 16" O.C.
16.	STUD TO TOP OR SILL PLATE	4- 8d, TOENAIL OR 2- 16d, END NAIL @ 2x PL. 2- 40d, END NAIL @ 3x PL.
17.	TOP OR SILL PLATE TO STUD	2- 16d, END NAIL @ 2x PL. 2- 40d, END NAIL @ 3x PL.
18.	TOP PLATES, LAPS & INTERSECTIONS, FACE NAIL	2- 16d
19.	1" BRACE TO EACH STUD & PLATE, FACE NAIL	2- 8d
20.	1" x 6" SHEATHING TO EACH BEARING, FACE NAIL	2- 8d
21.	1" x 8" AND WIDER SHEATHING TO EACH BEARING, FACE NAIL	3- 8d
22.	JOIST TO SILL, TOP PLATE OR GIRDER, TOE NAIL	3- 8d
23.	RIM JOIST, BAND JOIST OR BLOCKING TO TOP PLATE, SILL OR OTHER FRAMING BELOW, TOE NAIL	8d @ 6" O.C.
24.	1" x 6" SUBFLOOR OR LESS TO EACH JOIST, FACE NAIL	2- 8d
25.	2" SUBFLOOR TO JOIST OR GIRDER, FACE NAIL	2- 16d
26.	2" PLANKS (PLANK & BEAM - FLOOR & ROOF), EA. BEARING, FACE NAIL	2- 16d
27.	BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS, FACE NAIL	10d @ 24" O.C. AT TOP & BOT. STAGGERED ON OPPOSITE SIDES
28.	LEDGER STRIP SUPPORTING JOISTS OR RAFTERS, EA. JOIST OR RAFTER, FACE NAIL	3- 16d
29.	JOIST TO BAND JOIST OR RIM JOIST, END NAIL	3- 16d
30.	BRIDGING OR BLOCKING TO JOIST, RAFTER OR TRUSS, EA. END, TOE NAIL	2- 8d

ALL NAILS SHALL CONFORM TO GENERAL NOTE 6.1.4, U.O.N.

1. GENERAL:

1.1 ALL PHASES OF THE NEW WORK AND FIRE DAMAGE REPAIR SHALL CONFORM TO THE MINIMUM STANDARDS OF THE 2022 EDITION OF TITLE 24, PART 2, CALIFORNIA BUILDING CODE. UNFINISHED WORK FROM INCOMPLETE REMODEL & RETROFIT PROJECT SHALL CONFORM TO THE 2013 CBC.

1.2 THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS AT THE JOB SITE PRIOR TO STARTING CONSTRUCTION. ANY DISCREPANCIES OR INCONSISTENCIES FOUND SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION BEFORE WORK PROCEEDS.

1.3 THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE UNLESS OTHERWISE INDICATED, THEY DO NOT SPECIFY METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL TAKE ALL NECESSARY STEPS AND PRECAUTIONS TO MAINTAIN THE STABILITY OF THE STRUCTURE AND PROTECT WORKMEN AND OTHER PERSONS DURING CONSTRUCTION. SPECIFIC ITEMS TO BE CONSIDERED SHALL INCLUDE, BUT NOT BE LIMITED TO, THE ADEQUACY OF ALL FORMS, SCAFFOLDING, AND SHORING FOR CONSTRUCTION EQUIPMENT SHORING OF RETAINING WALLS, AND TEMPORARY LATERAL BRACING OF THE STRUCTURE.

1.4 OPENINGS, POCKETS, SUBSTANTIAL EMBEDDED ITEMS, ETC., SHALL NOT BE PLACED IN SLABS, COLUMNS BEAMS, OR OTHER STRUCTURAL MEMBERS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS.

1.5 ASTM SPECIFICATIONS AND IBC STANDARDS REFERENCED IN THESE DRAWINGS SHALL BE AS LISTED IN 2022 CBC CHAPTER 35.

1.6 IF CERTAIN MINOR DETAILS OF CONSTRUCTION ARE NOT FULLY DESCRIBED ON THE DRAWINGS OR CALLED FOR IN NOTES OR SPECIFICATIONS, THEIR CONSTRUCTION SHALL RESEMBLE SIMILAR CONDITIONS THAT ARE FULLY SHOWN AND SHALL BE REVIEWED BY THE ARCHITECT.

1.7 THE DESIGN OF THIS STRUCTURE ARE BASED ON THE FOLLOWING LOAD CRITERIA AS PRESCRIBED IN CBC CHAPTER 16:

SECOND FLOOR LOADS:
UNIFORM LIVE LOAD OF 100 PSF AT LOBBY, 80 PSF AT CORRIDORS, 50 PSF AT OFFICES
REDUCTIONS ARE BASED ON SECTION 1607.11 OF THE CBC

ROOF LOADS:
UNIFORM LIVE LOAD OF 20 PSF
REDUCTIONS ARE BASED ON SECTION 1607.13 OF THE CBC

WIND DESIGN CRITERIA:
SEE S110 OF JUVENILE HALL REPLACEMENT FACILITY PROJECT DATED 03/03/2016

SEISMIC DESIGN CRITERIA:
SEE S110 OF JUVENILE HALL REPLACEMENT FACILITY PROJECT DATED 03/03/2016

1.8 MISCELLANEOUS: NON-SHRINK GROUT: A NON-METALLIC GROUT MEETING THE ARMY CORPS OF ENGINEERS SPECIFICATION CRD-C621, WITH NO SHRINKAGE AFTER PLACEMENT OR EXPANSION AFTER SET, TESTED IN ACCORDANCE WITH ASTM C827, MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 3000 PSI AFTER 24 HOURS AND 5000 PSI AT 28 DAYS.

ACCEPTABLE PRODUCTS INCLUDE:
A. SURE-GRIP NON-FERROUS, NON-SHRINK GROUT BY DAYTON SUPERIOR, MIAMISBURG, OH
B. MASTERFLOW 928 GROUT BY MASTER BUILDERS, SHAKOPEE, MN
C. EUCO NS GROUT BY THE EUCLID CHEMICAL COMPANY, CLEVELAND, OH

2. FOUNDATION

2.1 FOUNDATION DESIGN BASED ON THE BEARING CAPACITIES LISTED BELOW PER THE GEOTECHNICAL INVESTIGATION REFERENCED ON SHEET S4 OF THE 1968 ORIGINAL BUILDING PLANS:

FOUNDATION BEARING PRESSURES

MINIMUM FOUNDATION EMBEDMENT DEPTH (IN)	MAXIMUM BEARING FOR D (PSF)	MAXIMUM BEARING FOR D + L (PSF)
24	2,000	3,000

3.1 CONCRETE:

3.1.1 PORTLAND CEMENT SHALL CONFORM TO ASTM C150-04, TYPE II OR II-LOW ALKALI. AGGREGATES SHALL CONFORM TO ASTM C33. PER THE CALIFORNIA BUILDING CODE. MAXIMUM AGGREGATE SIZE FOR FOOTINGS AND MASS CONCRETE SHALL NOT EXCEED 1-1/2". MAXIMUM AGGREGATE SIZE FOR ALL OTHER CONCRETE SHALL NOT EXCEED 3/4"

3.1.2 CONCRETE EXPOSED TO FREEZING AND THAWING CONDITIONS SHALL INCLUDE AIR ENTRAINMENT BASED ON ACI 318, SECTION 19.3.3.1.

3.1.3 CONCRETE MIXES SHALL BE DESIGNED BY A RECOGNIZED TESTING LABORATORY AND COPIES OF DESIGN SENT TO THE ARCHITECT FOR REVIEW. COMPRESSIVE STRENGTH TEST REPORTS SHALL BE SUBMITTED TO THE ARCHITECT AND ALL CONCRETE MIXES SHALL INCLUDE A POLYMER BASED WATER REDUCING ADMIXTURE PER ASTM C494. MAXIMUM WATER/CEMENT RATIO SHALL BE 0.50 PER SOILS REPORT.

3.1.4 FLY ASH SHALL CONFORM TO ASTM C618, CLASS N OR F. FLY ASH SHALL NOT EXCEED 15% OF CEMENT BY WEIGHT, AND SHALL NOT EXPERIENCE A LOSS ON IGNITION OF GREATER THAN 1%.

3.1.5 SHRINKAGE AT 28 DAYS SHALL NOT EXCEED .055% FOR DRY CURING AS DETERMINED BY ASTM C157.

3.1.6 REINFORCING BARS, ANCHOR BOLTS AND CONCRETE INSERTS SHALL BE PROPERLY LOCATED AND SECURELY FASTENED IN POSITION PRIOR TO PLACING CONCRETE.

3.1.7 MAXIMUM CONCRETE SLUMP SHALL NOT EXCEED 4" FOR FOOTINGS, MASS CONCRETE, AND SLABS-ON-GRADE, AND 5" FOR OTHER CONCRETE UNLESS CONCRETE CONTAINS A MID-RANGE OR HIGH-RANGE WATER-REDUCING ADMIXTURE.

3.1.8 THE REQUIRED AVERAGE COMPRESSIVE STRENGTH (f'cr) USED AS THE BASIS FOR SELECTION OF CONCRETE PROPORTIONS SHALL BE 3500 psi FOR f'c EQUAL TO 2500 PSI UNLESS A LOWER f'cr CAN BE JUSTIFIED THROUGH BREAK HISTORY. THE REQUIRED AVERAGE COMPRESSIVE STRENGTH (f'cr) USED AS THE BASIS FOR SELECTION OF CONCRETE PROPORTIONS FOR f'c GREATER THAN 2500 PSI SHALL BE f'c + 1200 PSI UNLESS A LOWER f'cr CAN BE JUSTIFIED THROUGH BREAK HISTORY.

THE AVERAGED COMPRESSIVE STRENGTH (f'c) OF CONCRETE SHALL BE AS FOLLOWS:

		PSI	DAYS
A.	LEAN CONC. FILL	1000	28
B.	SLABS-ON-GRADE	2500	28
C.	FOOTINGS	3000	28

3.1.9 PROJECTING CORNERS OF ALL CONCRETE MEMBERS SHALL BE FORMED WITH 3/4" CHAMFER UNLESS DETAILED OTHERWISE.

3.1.11 SURFACES OF JOINTS REFERENCED AS "COLD JOINTS", SHALL BE TROWELED OR OTHERWISE FINISHED SMOOTH WITH 2 LAYERS OF BUILDING PAPER BETWEEN SURFACES. ALL OTHER HORIZONTAL CONSTRUCTION JOINTS SHALL BE CLEANED AND ROUGHENED TO 1/4" +/- AMPLITUDE BY EXPOSING CLEAN AGGREGATE SOLIDLY EMBEDDED IN MORTAR MATRIX, UNLESS OTHERWISE NOTED. IN THE EVENT THAT THE CONTACT SURFACE BECOMES COATED WITH EARTH, SAWDUST, ECT., AFTER BEING CLEANED, THE ENTIRE SURFACE SO COATED SHALL BE RECLEANED.

3.1.12 EMBED OF POST INSTALLED ANCHORS SHOWN ON THE DRAWINGS ARE EFFECTIVE EMBEDS. SEE MANUFACTURERS INSTALLATION INSTRUCTIONS FOR REQUIRED DEPTH OF HOLE, NOMINAL EMBED AND ALL OTHER REQUIREMENTS. WHEN INSTALLING POST-INSTALLED ANCHORS IN EXISTING REINFORCED CONCRETE USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING. LOCATE THE REINFORCING BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE POST-INSTALLED ANCHOR.

3.1.13 POST INSTALLED ANCHORS SHALL BE INSTALLED A MINIMUM OF 3 BOLT DIAMETERS TO THE EDGE OF EXISTING ABANDONED OR MIS-DRILLED ANCHOR HOLES. A MINIMUM OF 1 1/2 BOLT DIAMETERS MAY BE USED PROVIDED ABANDONED OR MIS-DRILLED HOLES ARE FILLED WITH DRYPACK MORTAR.

GENERAL NOTES

3.2 REINFORCING STEEL:

3.2.1 REINFORCING STEEL SHALL CONFORM TO A615 GRADE 60 IN ALL CONCRETE AND MASONRY UNLESS NOTED OTHERWISE ON THE PLANS. REINFORCING STEEL THAT IS TO BE WELDED SHALL BE ASTM A706. A706 REBAR SHALL BE WELDED PER THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE.

3.2.2 CLEAR COVERAGE OF CONCRETE OVER OUTER REINFORCING BARS SHALL BE AS FOLLOWS (UNLESS OTHERWISE NOTED):

A.	CONCRETE CAST AGAINST AND EXPOSED TO EARTH	3"
B.	INTERIOR STRUCTURAL SLABS, TOP AND BOTTOM	3/4"
C.	FORMED CONCRETE EXPOSED TO EARTH OR WEATHER	
	#6 BAR OR LARGER	2"
	#5 BAR AND SMALLER	1-1/2"

3.2.3 WIRE MESH SHALL CONFORM TO ASTM A185, AND SHALL BE LAPPED 1 & 1/2 SPACES (12" MINIMUM).

3.2.4 ALL REINFORCING BAR BENDS SHALL BE MADE COLD.

3.2.5 REINFORCING BARS SHALL BE SPLICED AS SHOWN ON DRAWINGS. ANY ADDITIONAL SPLICING SHALL REQUIRE REVIEW FROM THE ENGINEER.

3.2.6 MINIMUM LAP OF REINFORCING STEEL IN CONCRETE SHALL BE PER SCHEDULE 4/S410.

6.1 FRAMING LUMBER:

6.1.1 ALL FRAMING LUMBER SHALL BE DOUGLAS FIR-LARCH S4S, UNLESS OTHERWISE NOTED, AND SHALL BEAR THE GRADE STAMP OF AN APPROVED GRADING AGENCY. ALL SILLS, PLATES, SLEEPERS, LEDGERS & NAILERS IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED DOUGLAS FIR #1 AND EACH PIECE SHALL BEAR THE A.W.P.A. STAMP. TREATED WOOD SILLS WHERE CUT, DRILLED, OR NOTCHED SHALL BE TREATED WITH A PRESERVATIVE PER A.W.P.A. M-4 AND APPROVED BY THE ARCHITECT. THE FOLLOWING GRADES SHALL BE THE MINIMUM ACCEPTABLE GRADES UNLESS OTHERWISE NOTED ON PLANS AND NO MEMBERS MAY FALL BELOW ACCEPTABLE GRADE PER CBC 2303.1.1.

		GRADE	MAX. MOISTURE CONTENT @ TIME OF INSTALLATION
A.	STUDS & SILL PLATES 2" TO 4" THICK	NO. 2	19%
B.	BEAMS AND HEADERS:		
	2" TO 4" THICK 4" AND WIDER	NO. 2	19%
	5" AND THICKER	NO. 2	19%
C.	POSTS	NO. 2	19%
D.	2x RAFTERS AND JOISTS	NO. 2	19%
E.	TOP PLATES & LEDGERS	NO. 2	19%
F.	MISC. FRM'G AND BLK'G NOT NOTED ABOVE	NO. 2	19%

6.1.2 APA RATED SHEATHING SHALL CONFORM TO U.S. PRODUCT STANDARD PS 1 OR PS 2 AND EACH PANEL SHALL BEAR APA STAMP. STAGGER SHEETS 4'-0" AND APPLY WITH FACE GRAIN PERPENDICULAR TO SUPPORTS (WHERE STUD SPACING IS 16" O.C. OR LESS FACE GRAIN MAY BE PARALLEL TO STUDS). MAXIMUM SIZE OF UNFRAMED HOLES IN SHEATHING SHALL BE 4" IN DIAMETER OR 4" SQUARE. WHERE HOLES OR NOTCHES ARE CUT IN SHEETS SAW CUTS SHALL NOT RUN BY THE CORNERS OF THE OPENINGS.

6.1.3 ALL FRAMING ANCHORS, CLIPS, STRAPS, HANGERS, ETC. REFERENCED ON THE DRAWINGS SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE COMPANY OR EQUIVALENT, AS APPROVED BY THE STRUCTURAL ENGINEER AND INSTALLED TO RESIST MAXIMUM RATED LOADS WITH CORROSION RESISTANT COATINGS RECOMMENDED BY MFR. AT PRESERVATIVE-TREATED WOOD.

6.1.4 NAILING SHALL CONFORM WITH TABLE 2304.10.1 OF CALIFORNIA BUILDING CODE. UNLESS OTHERWISE NOTED ON PLANS, ALL NAILS EXPOSED TO THE WEATHER OR IN P.T. MEMBERS SHALL BE HOT DIPPED GALVANIZED PER CBC 2304.10.5.1. NAILS REFERENCED IN THE DRAWINGS SHALL HAVE THE FOLLOWING MINIMUM DIMENSIONS EXCLUDING COATINGS, U.O.N.:

NAIL DESIGNATION	DIAMETER (IN)	LENGTH (IN)
40d	0.225	5
16d	0.162	3 1/2
10d	0.148	3
8d	0.131	2 1/2
6d	0.113	2

6.1.5 ANCHOR BOLTS TO BE 5/8" DIAMETER, ASTM A307, LENGTH AS REQ'D. W/ MIN. 0.229" THK. x 3" SQ. WASHER AS PER CBC 2308.3.1.1, AND A MINIMUM EMBEDMENT OF 7" INCHES INTO FOUNDATIONS EXCLUDING CURBS. ANCHOR BOLTS SHALL BE PLACED WITHIN 12 INCHES (MAX.) 4" (MIN.) OF ENDS AND SPLICES OF PLATES AND 4 FEET ON CENTER, UNLESS OTHERWISE NOTED. ANCHOR BOLTS WITH UPSET THREADS ARE NOT ALLOWED. ANCHOR BOLTS, NUTS & WASHERS SHALL BE HOT DIPPED GALVANIZED, STAINLESS STEEL, OR MECHANICALLY DEPOSITED ZINC-COATED STEEL WITH COATING WEIGHTS IN ACCORDANCE WITH ASTM B695, CLASS 55 MIN.

6.1.6 USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION FOR EACH PROJECT & THE APPROVAL BY THE STRUCTURAL ENGINEER. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE ACCEPTED IN 5/16" AND SMALLER SHEATHING. IF NAIL HEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWANCE EDGE DISTANCES ARE NOT MAINTAINED, THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.

6.1.7 INTERIOR NON-BEARING WALLS SHALL BE SECURED TO SLAB WITH 3/8" DIAMETER x 2" EMBEDMENT HILTI KWIK BOLT TZ2 PLACED 4 FEET ON CENTER WITHIN 12" OF ENDS OF WALLS AND PLATE SPLICES, U.O.N. IN DETAILS. TENSION OR TORQUE TEST 10% OF THE BOLTS PER THE SCHEDULE ON SHEET S120. (USE 3/8" DIAMETER ANC. BOLTS WHERE SILL PLATE IS PLACED ON CONC. CURBS). CONTRACTORS OPTION: USE HILTI X-U 72P8 S36 POWDER ACTUATED FASTENERS AT 32 INCHES ON CENTER (EXCEPT AT CONCRETE CURBS) INSTALL PER ICC NO. ESR-2269.

6.2 ROUGH CARPENTRY:

6.2.1 ALL FLUSH-FRAMED JOISTS SHALL SEAT IN SIMPSON HANGERS, UNLESS OTHERWISE NOTED.

6.2.2 BOLT & LAG SCREW HEADS AND NUTS AGAINST WOOD SHALL BEAR AGAINST STANDARD STEEL WASHERS, UNLESS SPECIAL WASHERS ARE INDICATED ON PLANS OR DETAILS. JUST PRIOR TO COVERING ROUGH FRAMING, ALL BOLTS AND LAGS IN WOOD MEMBERS SHALL BE RE-TIGHTENED.

6.2.3 LAG SCREWS SHALL BE THREADED INTO LEAD HOLES BORED AS FOLLOWS: THE LEAD HOLE FOR THE SHANK SHALL BE THE SAME DEPTH AND DIAMETER AS THE SHANK. THE LEAD HOLE FOR THE THREADED PORTION SHALL HAVE A DIAMETER EQUAL TO 60 TO 75 PERCENT OF THE SHANK DIAMETER AND A DEPTH EQUAL TO AT LEAST THE LENGTH OF THE THREADED PORTION.

6.2.4 CUTTING AND BORING OF WOOD STUDS:

A. LET-INS ARE NOT PERMITTED.
B. NOTCHING OF STUDS IS NOT PERMITTED.
C. NEATLY BORED HOLES NOT GREATER THAT 40% OF THE WIDTH OF THE STUD ARE PERMITTED IN ANY WALL, PROVIDED THAT THEY ARE INSTALLED AT THE CENTERLINE OF THE STUDS.

6.2.5 FOUNDATION WALL TO BE A MINIMUM OF 8" ABOVE THE HIGHEST ADJACENT FINISH GRADE. (6" IF ADJACENT GRADE IS ASPHALT OR A 18" WIDE CONCRETE APRON SLOPING AWAY FROM BUILDING.)

6.2.6 USE SINGLE TRIMMER EACH END OF EACH BEAM AND HEADER UNLESS OTHERWISE NOTED ON PLAN.

6.2.7 BRIDGING SHALL BE INSTALLED BETWEEN FLOOR OR ROOF JOISTS IN ACCORDANCE WITH SECTION 2308.4.6 OF THE CALIFORNIA BUILDING CODE.

6.3 GLU-LAM BEAMS:

6.3.1 SIMPLE SPAN GLU-LAM BEAMS SHALL BE AN UNBALANCED 24F-1.8E. CONTINUOUS SPANS, CANTILEVERS, AND COLUMNS SHALL BE A BALANCED 24F-1.8E, UNLESS OTHERWISE NOTED, AS ESTABLISHED BY THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION, AND SHALL CONFORM TO THE REQUIREMENTS OF CBC 2303.1.3 & ANSI/AITC STANDARD A190.1 AND ASTM D3737. BEAMS SHALL BE MANUFACTURED WITH EXTERIOR GLUE AND FINISHED TO AN INDUSTRIAL GRADE APPEARANCE, UNLESS OTHERWISE NOTED. MANUFACTURER SHALL PROVIDE A CERTIFICATE OF COMPLIANCE FOR ALL GLU-LAM BEAMS. ALL GLU-LAM BEAMS SHALL HAVE A 2000 FOOT RADIUS CAMBER UNLESS OTHERWISE NOTED ON PLANS.

6.3.2 EXPOSED GLU-LAMS SHALL BE PRESSURE TREATED TO PREVENT DECAY.

6.5 ENGINEERED LUMBER:

6.5.1 REDBUILT 'REDLAM' LVL: DOUGLAS FIR VENEER GLUED UP IN A CONTINUOUS PROCESS CONFORMING TO ICC REPORT NO. ESR-2993. LVL SHALL BE SINGLE ONE-PIECE LENGTHS FREE OF FINGER JOINTS, SCARF JOINTS OR MECHANICAL CONNECTIONS. EXTREME FIBER STRESS IN BENDING fb = 2750 PSI, MODULUS OF ELASTICITY E = 2,000,000 PSI. EACH PIECE SHALL BE PROPERLY IDENTIFIED PER ICC REPORT NO. ESR-2993.

SHEET INDEX

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KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE
EUREKA, CA 95501

SHEET TITLE

GENERAL STRUCTURAL NOTES

DRAWING STATUS

CONSTRUCTION DOCUMENTS

Drawn By	Author
Date Issued	6.1.2023
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SHEET No.

S110

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SPECIAL INSPECTION

7.0 SPECIAL INSPECTION:

7.1.1 GENERAL:

THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR DURING CONSTRUCTION ON THE PHASES OF WORK LISTED IN SECTION 7 AND THE FOLLOWING TABLES.

THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE HIS COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF A PARTICULAR TYPE OF CONSTRUCTION OR OPERATION.

THE CONTRACTOR SHALL SUBMIT A STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER PRIOR TO COMMENCEMENT OF WORK FOR EACH ITEM REQUIRING SPECIAL INSPECTION OR TESTING. THE STATEMENT SHALL CONTAIN THE FOLLOWING:

1. ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED WITHIN THE TESTING AND INSPECTION SECTIONS OF THE CONSTRUCTION DOCUMENTS.
2. ACKNOWLEDGMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
3. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF THE REPORTS.
4. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

7.1.2 REPORTS:

THE THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF INSPECTIONS AND FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT THE WORK INSPECTED WAS OR WAS NOT DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK.

A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED AT A TIME AGREED UPONBY THE PERMIT APPLICANT AND THE BUILDING OFFICIAL PRIOR TO THE START OF WORK.

8.0 POST-INSTALLED ANCHORS TESTING REQUIREMENTS & PROCEDURES:

8.1 POST-INSTALLED ANCHORS IN CONCRETE:

1. APPLY PROOF TEST LOADS TO ANCHORS WITHOUT REMOVING THE NUT IF POSSIBLE. IF NOT, REMOVE NUT AND INSTALL A THREADED COUPLER TO THE SAME TIGHTNESS AS THE ORIGINAL NUT USING A TORQUE WRENCH AND APPLY LOAD.
2. CALIBRATION OF TESTING EQUIPMENT SHALL BE PERFORMED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD PROCEDURES.
3. HYDRAULIC RAM: THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD APPLIED FOR A MINIMUM OF 15 SECONDS. FOR ADHESIVE ANCHORS, THE TESTING DEVICE SHALL NOT RESTRICT THE CONCRETE SHEAR CONE FAILURE MECHANISM.
4. TORQUE WRENCH: THE APPLICABLE TEST TORQUE MUST BE ACHIEVED WITHIN ONE HALF (1/2) TURN OF THE NUT FOR WEDGE/SCREW TYPE ANCHORS EXCEPT 3/8" SLEEVE OR THREADED TYPE ANCHOR (AFTER INITIAL SEATING OF SCREW HEAD) WHERE TORQUE SHALL BE ACHIEVED WITHIN ONE-QUARTER (1/4) TURN OF THE NUT.
5. TEST 10% OF ANCHORS INSTALLED IN SILL PLATES, TEST 50% OF ANCHORS USED FOR NONSTRUCTURAL APPLICATIONS SUCH AS EQUIPMENT ANCHORAGE AND ALL ANCHORS USED FOR STRUCTURAL APPLICATION PER CBC SECTION 1909.2.7.3 EXCEPT AS FOLLOWS:
   - A. UNDERCUT ANCHORS THAT ALLOW VISUAL CONFIRMATION OF FULL SET SHALL NOT REQUIRE TESTING.
   - B. WHERE ADHESIVE ANCHOR SYSTEMS ARE USED TO INSTALL REINFORCING DOWEL BARS, ONLY 25 PERCENT OF THE DOWELS SHALL BE TESTED IF ALL THE FOLLOWING CONDITIONS ARE MET:
     - a. THE DOWELS ARE USED EXCLUSIVELY AS SHEAR DOWELS BETWEEN NEW AND EXISTING CONCRETE.
     - b. THE NUMBER OF DOWELS IN ANY ONE MEMBER EQUALS OR EXCEEDS TWELVE.
     - c. THE DOWELS ARE UNIFORMLY DISTRIBUTED ACROSS SEISMIC FORCE RESISTING MEMBERS (SUCH AS SHEAR WALLS, COLLECTORS AND DIAPHRAGMS)

   ANCHORS TO BE TESTED SHALL BE SELECTED AT RANDOM BY THE SPECIAL INSPECTOR/ INSPECTOR OF RECORD (IOR).

8.2 POWER ACTUATED FASTENERS:

ALL POWER ACTUATED FASTENERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND LIMITED TO INTERIOR USE FOR HANGING METAL SUSPENSION SYSTEMS FOR LAY-IN CEILINGS AND FOR THE ATTACHMENT OF METAL TRACKS FOR NON-BEARING PARTITION WALL CONDITIONS. OTHER APPLICATIONS SHALL BE SUBJECT TO REVIEW OF THE ENGINEER.

8.3 ADHESIVE ANCHOR INSTALLERS CERTIFICATION:

ADHESIVE ANCHOR INSTALLERS FOR ANCHORS INSTALLED IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS THAT RESIST SUSTAINED TENSION SHALL HAVE AN ACI/CRSI ADHESIVE ANCHOR INSTALLERS CERTIFICATION OR AN EQUAL CERTIFICATION FROM THE MANUFACTURER OF THE ADHESIVE PRIOR TO INSTALLATION OF THE ANCHORS.

ALL OTHER INSTALLERS SHALL BE TRAINED BY THE MANUFACTURER FOR INSTALLATION OF THE ADHESIVE ANCHOR.

HILTI KWIKBOLT TZ2 CONCRETE

(APPLIES TO CARBON/STAINLESS STEEL)

TORQUE TESTING REQ'TS FOR HILTI KWIK BOLT TZ2 SYSTEM IN CONCRETE

DIAMETER (IN)	EMBED (IN)	STAINLESS STL. TORQUE TEST (FT-LBS)	CARBON STL. TORQUE TEST (FT-LBS)
1/4	1 1/2	6	4
3/8	1 1/2	30	30
	2		
	2 1/2		
1/2	1 1/2	40	50
	2		
	2 1/2		
	3 1/4		
5/8	2 3/4	60	40
	3 1/4		
	4		
3/4	3 1/4	125	110
	3 3/4		
	4 3/4		
1	4	185	185
	5 3/4		

(BASED ON ICC NO. ESR-4266 DATED DECEMBER 2021)

NOTE:
WHEN TORQUE TESTING CANNOT BE APPLIED CONTACT ENG. FOR PULL TEST REQUIREMENTS.

HILTI KWIKBOLT TZ2 MASONRY

(APPLIES TO CARBON/STAINLESS STEEL)

TORQUE TESTING REQ'TS FOR HILTI KWIK KB-TZ2 SYSTEM IN GROUT-FILLED MASONRY

DIAMETER (IN)	EMBED (IN)	STAINLESS STL. TORQUE TEST (FT-LBS)	CARBON STL. TORQUE TEST (FT-LBS)
1/4	1 1/2	6	4
3/8	1 1/2	15	15
	2 1/2		
1/2	2	25	25
	3 1/4		
5/8	2 3/4	35	30
	4		
3/4	3 1/4	50	50
	4 3/4		

(BASED ON ICC NO. ESR-4561 DATED DECEMBER 2023)

NOTE:
WHEN TORQUE TESTING CANNOT BE APPLIED CONTACT ENG. FOR PULL TEST REQUIREMENTS.

SIMPSON TITEN HD SCREW CONCRETE

(INTERIOR USE ONLY & SILL PLATES, SEE NOTE BELOW)

MAX. TORQUE REQ'TS FOR SIMPSON TITEN HD SCREW SYSTEM IN CONCRETE

DIAMETER (IN)	EMBED (IN)	MAX. INSTALLATION TORQUE (FT-LBS)
1/4	1 5/8	24
	2 1/2	
3/8	2 1/2	50
	3 1/4	
1/2	3 1/4	65
	4	
5/8	4	100
	5 1/2	
3/4	4	150
	5 1/2	
	6 1/4	

(BASED ON ICC NO. ESR-2713 DATED SEPTEMBER 2022)

NOTE:
1. CARBON STL. ANCHORS LIMITED TO DRY INTERIOR CONDITIONS
2. STAINLESS STL. ANCHORS MAY BE USED IN EXTERIOR EXPOSURE OR DAMP ENVIRONMENTS

SIMPSON TITEN HD SCREW MASONRY

(INTERIOR USE ONLY & SILL PLATES, SEE NOTE BELOW)

TORQUE TESTING REQ'TS FOR SIMPSON TITEN HD SCREW SYSTEM IN GROUT-FILLED MASONRY

DIAMETER (IN)	EMBED (IN)	TORQUE TEST (FT-LBS)
1/4	1 1/4	10
3/8	2 3/4	10
1/2	3 1/2	10
5/8	4 1/2	20
3/4	5 1/2	20

(BASED ON ICC NO. ESR-1056 DATED MARCH 2022)

NOTE:
1. CARBON STL. ANCHORS LIMITED TO DRY INTERIOR CONDITIONS
2. STAINLESS STL. ANCHORS MAY BE USED IN EXTERIOR EXPOSURE OR DAMP ENVIRONMENTS

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KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE EUREKA, CA 95501

SHEET TITLE

SPECIAL INSPECTION NOTES

DRAWING STATUS

CONSTRUCTION DOCUMENTS

Drawn By	Author
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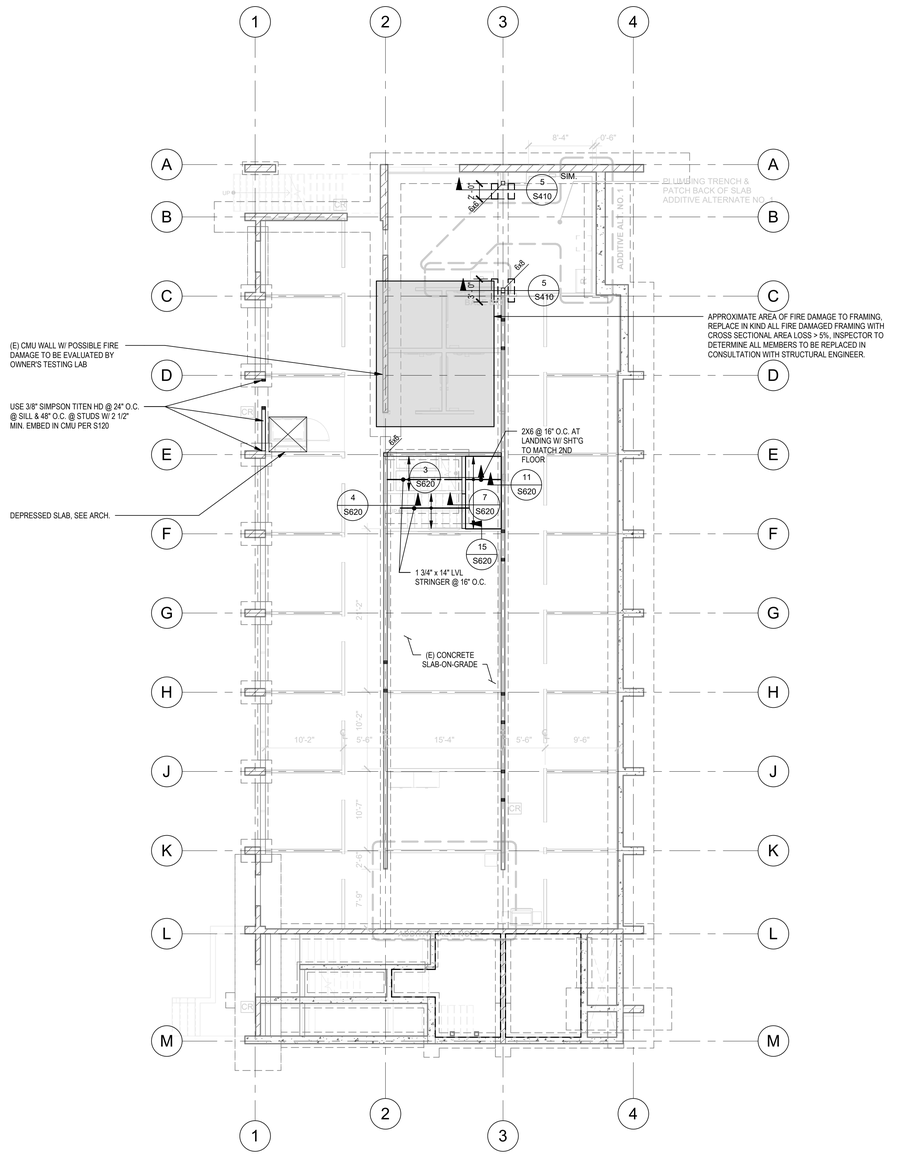

FOUNDATION PLAN

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

FOUNDATION NOTES

1. SEE GENERAL NOTES ON SHEET S110 FOR ADDITIONAL INFORMATION.
2. DIMENSIONS ARE FROM CENTERLINE OF COLUMN OR FACE OF STUD OR CMU WALL, TYP. U.O.N.
3. TYPICAL SLAB ON GRADE TO BE 4 1/2" THICK, REINF. W/ #3 @ 14" O.C. EA. WAY 1" CLEAR FROM TOP OF SLAB, OVER 15 MIL. VAPOR BARRIER OVER 6" OF 3/4" FREE DRAINING GRAVEL OR CRUSHED ROCK. SEE SHEET S410 FOR TYPICAL FOUNDATION DETAILS.
4. SEE ARCH. FOR AREAS OF SLAB DEMO AND REPLACEMENT
5. ALL INTERIOR STRUCTURAL WALLS TO BE 2X6 STUDS @ 16" O.C., U.O.N. ON PLANS- REUSE (E) A.B.'S WHERE POSSIBLE AND ADD A.B.'S PER 5/S410 WHERE REQ'D. SEE SHEET S610 FOR TYP. WALL FRAMING & SEE ARCH. DRWG'S. FOR ALL NON-STRUCTURAL WALLS. THERE IS TERMITE DAMAGE TO FRAMING THROUGHOUT BUILDING, REPLACE IN KIND ALL TERMITE DAMAGED FRAMING WITH CROSS SECTIONAL AREA LOSS > 5%. REPLACE ALL CUTS STUDS AND FRAMING THAT DOES NOT COMPLY WITH 1/S610, TYP. INSPECTOR TO DETERMINE ALL MEMBERS TO BE REPLACED IN CONSULTATION WITH STRUCTURAL ENGINEER.
6. DATUM ELEVATION = TOP OF SLAB = + 0'-0"
7. 12"x18" CONT. — INDICATES FOOTING SIZE, SEE SCHEDULE; INDICATES COLUMN SIZE, SEE PLAN
8. INDICATES (E) CONTINOUS FOOTING; INDICATES STRUCTURAL WALL
9. WALL LEGEND
   - FULL HEIGHT WALL
   - PARTIAL HEIGHT WALL
   - INDICATES (E) CMU WALL
   - INDICATES (E) CONCRETE WALL
   - INDICATES 2X6 @ 16" O.C. WALL

SEE ARCH. FOR SIZES OF NONSTRUCTURAL WALLS (WALLS NOT OVER FOOTINGS)

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KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE EUREKA, CA 95501

SHEET TITLE

FOUNDATION PLAN

DRAWING STATUS

CONSTRUCTION DOCUMENTS

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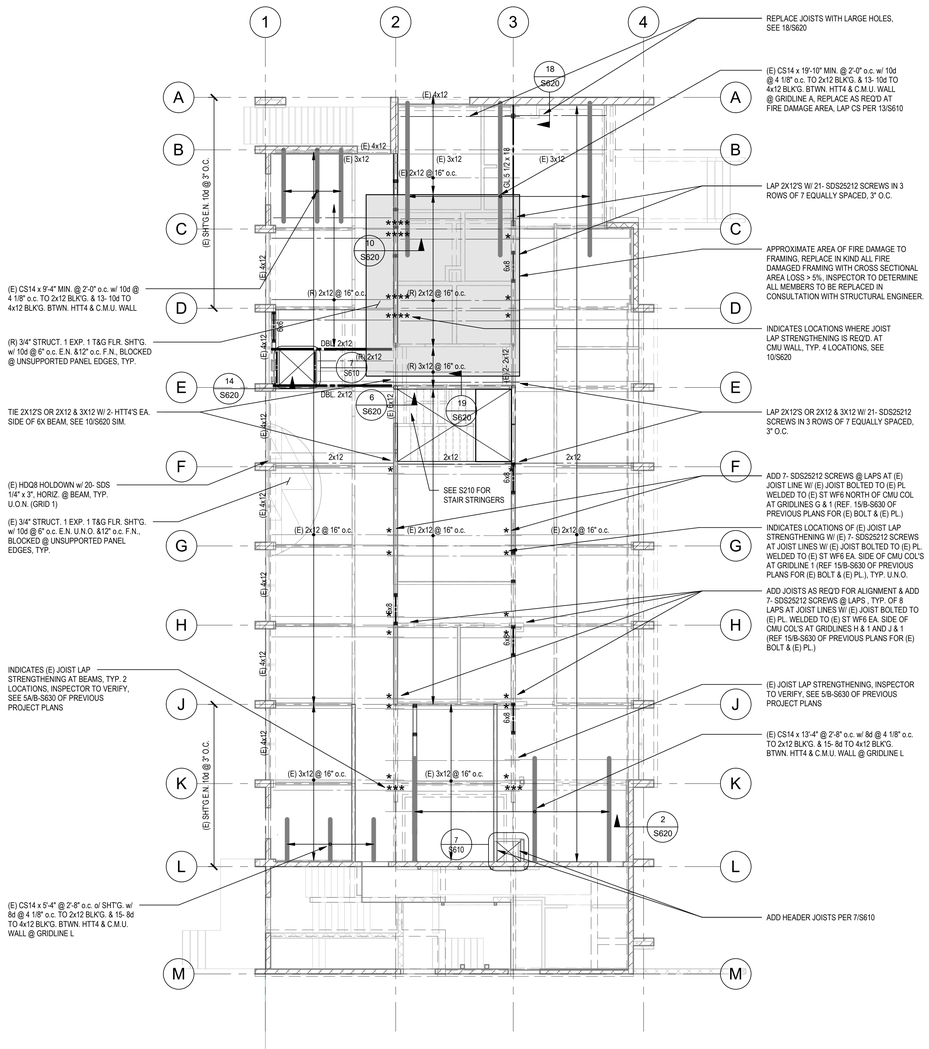

FLOOR FRAMING PLAN

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

FLOOR FRAMING NOTES

1. SEE GENERAL NOTES ON SHEET S110 FOR ADDITIONAL INFORMATION AND TYPICAL DESIGN LOADS. SEE DIAPHRAGM NAILING DETAIL 2/S610 FOR NAILING REQUIREMENTS.
2. ALL BEAMS SHALL BEAR DIRECTLY ON TRIMMERS OF WALL WIDTH, OR POSTS WITH SIMPSON PCZ/EPCZ CAPS, OR BE HUNG WITH SIMPSON HUTF HANGERS, TYPICAL UNLESS OTHERWISE NOTED.
3. SEE SHEETS S610 & S620 FOR TYPICAL FRAMING DETAILS & TOP PLATE SPLICE NAILING.
4. THERE IS TERMITE DAMAGE TO FRAMING THROUGHOUT BUILDING, REPLACE IN KIND ALL TERMITE DAMAGED FRAMING WITH CROSS SECTIONAL AREA LOSS > 5%. INSPECTOR TO DETERMINE ALL MEMBERS TO BE REPLACED IN CONSULTATION WITH STRUCTURAL ENGINEER.
5. REPLACE ALL CUT STUDS AND FRAMING THAT DOES NOT COMPLY WITH 1/S610, TYP.
6. PROVIDE MID-SPAN BLOCKING OR BRIDGING SIMILAR TO EXISTING.
7. INDICATES BEAM, SEE PLAN
8. INDICATES JOIST, SEE PLAN
9. INDICATES BEARING OR SHEARWALL
10. INDICATES BEARING OR SHEARWALL BELOW
11. INDICATES STRAP, SEE 12/S610 FOR ADDITIONAL INFO
12. 6X6 — INDICATES POST WIDTH. DEPTH & MATERIAL TO MATCH WALL FRAMING

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PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE
EUREKA, CA 95501

SHEET TITLE

FLOOR FRAMING PLAN

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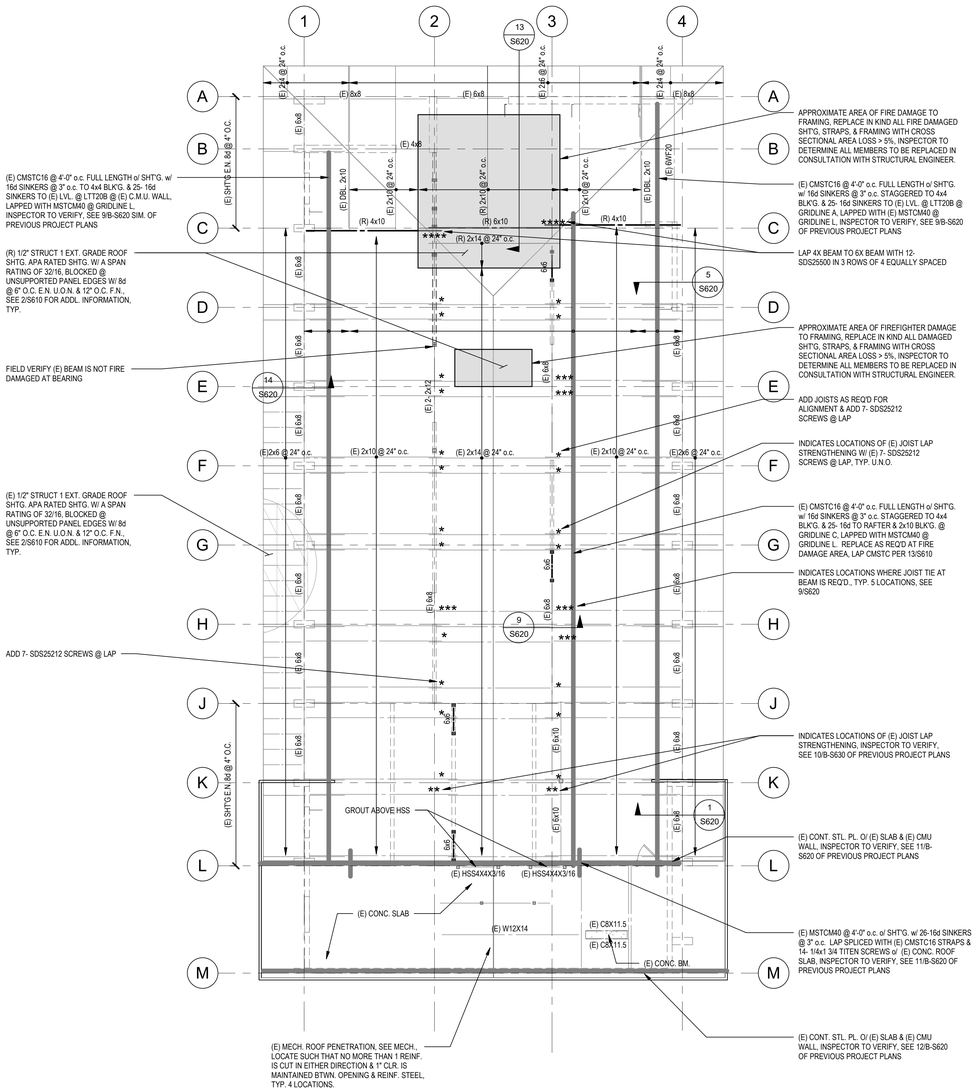

ROOF FRAMING PLAN

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

ROOF FRAMING NOTES

1. SEE GENERAL NOTES ON SHEET S110 FOR ADDITIONAL INFORMATION AND TYPICAL DESIGN LOADS. SEE DIAPHRAGM NAILING DETAIL 2/S610 FOR NAILING REQUIREMENTS.
2. ALL BEAMS SHALL BEAR DIRECTLY ON TRIMMERS OF WALL WIDTH, OR POSTS WITH SIMPSON PCZ/EPCZ CAPS, OR BE HUNG WITH SIMPSON HUTF HANGERS, TYPICAL UNLESS OTHERWISE NOTED.
3. SEE SHEETS S610 & S620 FOR TYPICAL FRAMING DETAILS & TOP PLATE SPLICE NAILING.
4. PROVIDE MID-SPAN BLOCKING OR BRIDGING SIMILAR TO EXISTING.
5. ——— INDICATES BEAM, SEE PLAN
6. — — — INDICATES RAFTER, SEE PLAN
7. = = = = = INDICATES BEARING OR SHEARWALL BELOW
8. ▬▬ INDICATES STRAP, SEE 12/S610 FOR ADDITIONAL INFO

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KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE EUREKA, CA 95501

SHEET TITLE

ROOF FRAMING PLAN

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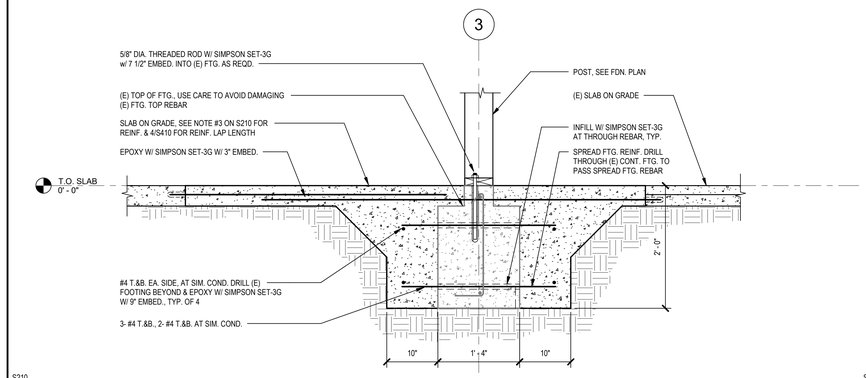
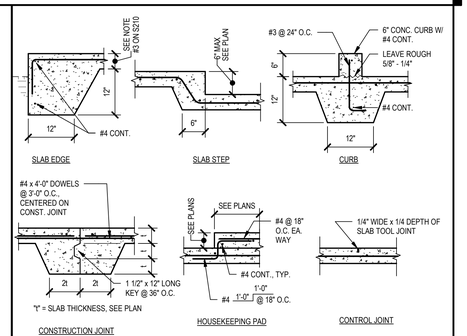


S210 S410

SPREAD FOOTING 5

SCALE: 1" = 1'-0"

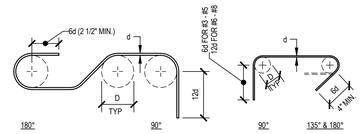


NOTES:
1. SLAB SHALL BE PLACED ON PREPARED SUBGRADE PER SOILS REPORT.
2. MIN. REINF. SHALL BE PER FOUNDATION NOTE #3 ON SHEET S210.
3. CONTROL JOINTS SHALL BE SPACED AT A MAXIMUM OF 36 TIMES SLAB DEPTH IN EACH DIRECTION.

S410

TYPICAL SLAB ON GRADE DETAILS 1

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

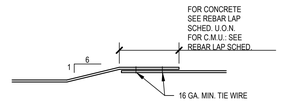


BAR SIZE	MIN. INSIDE BEND Ø "D"
#3 - #8	6d
#9 - #11	8d
#14 & #18	10d

BAR SIZE	MIN. INSIDE BEND Ø "D"
#3 - #5	4d
#6 - #8	6d

STANDARD BAR HOOKS & BENDS

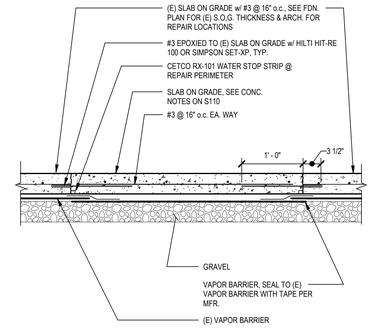
TYPICAL STIRRUPS & TIES & DOWELS



S410

STANDARD REBAR HOOKS & BENDS 2

SCALE: 1" = 1'-0"



S410

SLAB ON GRADE REPAIR DETAIL 3

SCALE: 1" = 1'-0"

BAR SIZE	TYP. REBAR LAP LENGTH 2500	3000
	CONC. STRENGTH "f'c" (PSI)	
	BAR GRADE (KSI)	
#3	32 / 24	29 / 23
#4	42 / 32	38 / 29
#5	51 / 39	47 / 37
#6	62 / 47	56 / 43
#7	90 / 69	82 / 63
#8	102 / 78	94 / 72
#9	115 / 89	106 / 81
#10	130 / 101	119 / 91
#11	143 / 111	132 / 102

TOP BARS PER NOTE 2, TYP. (IN)
OTHER BARS, TYP. (IN)

NOTES:

1. INCREASE LAP LENGTHS 33% FOR LIGHT WEIGHT CONCRETE, AND AT FOUR BAR BUNDLES.
2. TOP BARS - HORIZONTAL BARS PLACED WITH MORE THAN 12" OF FRESH CONC. CAST IN THE MEMBER BELOW THE BARS.
3. SEE CONCRETE SECTION NOTES ON SHEET S110 FOR CONCRETE STRENGTHS
4. LAP LENGTHS ARE BASED ON CLEAR SPACING OF BARS NOT LESS THAN 2 BAR DIAMETERS AND CLEAR COVER NOT LESS THAN 1 BAR DIAMETER

S410

REBAR LAP SCHEDULE 4

SCALE: N.T.S

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REVISIONS

Delta	Description	Date

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LICENSE STAMPS

REGISTERED PROFESSIONAL ENGINEER JOHN S. CORBETT No. 45240 STRUCTURAL STATE OF CALIFORNIA

KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE
EUREKA, CA 95501

SHEET TITLE

TYPICAL FOUNDATION DETAILS & SECTIONS

DRAWING STATUS

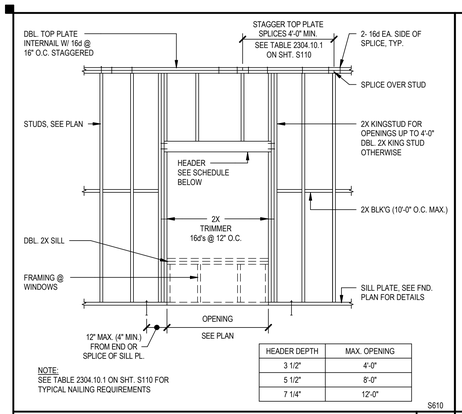
CONSTRUCTION DOCUMENTS

Drawn By	Author
Date Issued	6.1.2023
Scale	As indicated
Project No.	22-6507

SHEET No.

S410

Plot Date: 6/6/2023 11:31:49 AM
File Name: Autodesk Docs://Humboldt County Probation/S_HCJ-PROBATION.rvt



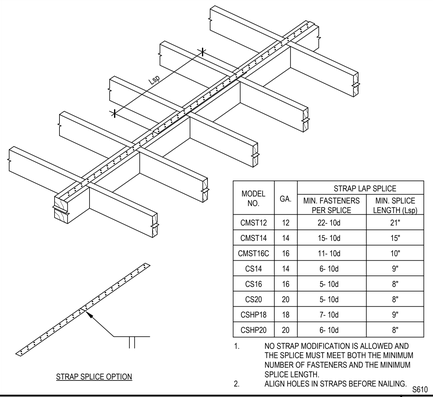
HEADER DEPTH	MAX. OPENING
3 1/2"	4'-0"
5 1/2"	8'-0"
7 1/4"	12'-0"

NOTE:
SEE TABLE 2304.10.1 ON SHT. S110 FOR TYPICAL NAILING REQUIREMENTS

S610

TYPICAL INTERIOR NON-BEARING WALL FRAMING ELEVATION

SCALE: N.T.S (17)



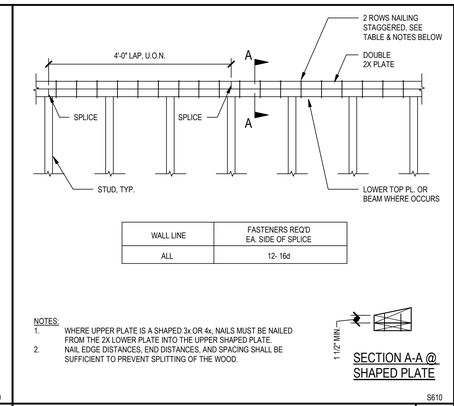
MODEL NO.	GA.	STRAP LAP SPLICE	
		MIN. FASTENERS PER SPLICE	MIN. SPLICE LENGTH (Lsp)
CMST12	12	22- 10d	21"
CMST14	14	15- 10d	15"
CMST16C	16	11- 10d	10"
CS14	14	6- 10d	9"
CS16	16	5- 10d	8"
CS20	20	5- 10d	8"
CSHP18	18	7- 10d	9"
CSHP20	20	6- 10d	8"

1. NO STRAP MODIFICATION IS ALLOWED AND THE SPLICE MUST MEET BOTH THE MINIMUM NUMBER OF FASTENERS AND THE MINIMUM SPLICE LENGTH.
2. ALIGN HOLES IN STRAPS BEFORE NAILING.

S610

TYPICAL STRAP SPLICE

SCALE: 3/4" = 1'-0" (13)



WALL LINE	FASTENERS REQ'D EA. SIDE OF SPLICE
ALL	12- 16d

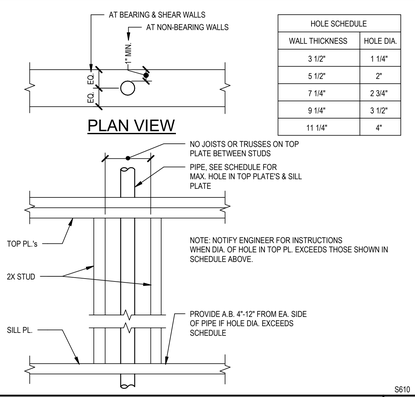
NOTES:
1. WHERE UPPER PLATE IS A SHAPED 3x OR 4x, NAILS MUST BE NAILED FROM THE 2X LOWER PLATE INTO THE UPPER SHAPED PLATE. NAIL EDGE DISTANCES, END DISTANCES, AND SPACING SHALL BE SUFFICIENT TO PREVENT SPLITTING OF THE WOOD.
2.

SECTION A-A @ SHAPED PLATE

S610

TOP PLATE SPLICE DETAIL

SCALE: N.T.S (9)



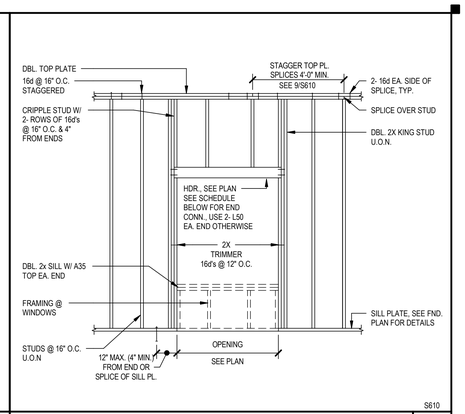
PLAN VIEW

HOLE SCHEDULE	
WALL THICKNESS	HOLE DIA.
3 1/2"	1 1/4"
5 1/2"	2"
7 1/4"	2 3/4"
9 1/4"	3 1/2"
11 1/4"	4"

S610

PIPE THROUGH STUD WALL

SCALE: N.T.S (5)



S610

TYPICAL BEARING WALL FRAMING ELEVATION

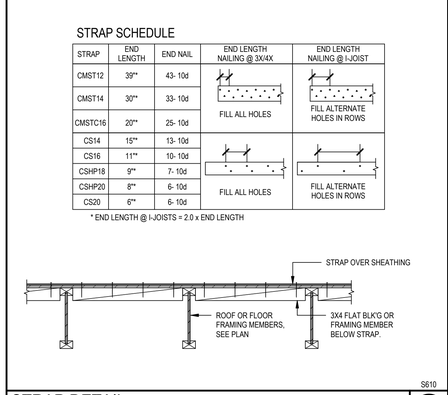
SCALE: N.T.S (1)

S610

TOP PLATE INTERSECTIONS

SCALE: 1" = 1'-0" (14)

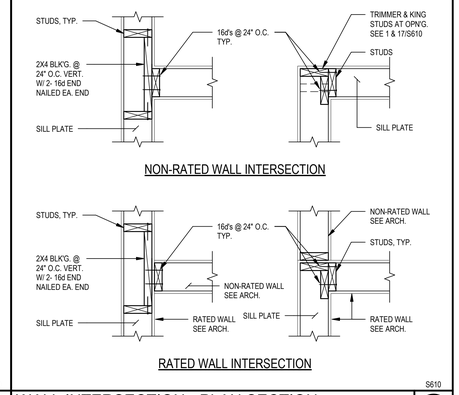
CEILING JOIST SCHEDULE DL= 6 PSF, LL= 200 LB POINT LOAD			
JOIST SPAN	FRAMING	2X BLK'G	LEDGER NAILS
UP TO 7'-0"	2X4 @ 24" O.C.	NONE	2- 10d
UP TO 12'-0"	2X6 @ 24" O.C.	MIDSPAN	3- 10d
UP TO 17'-0"	2X8 @ 24" O.C.	1/3 POINTS	4- 10d



S610

CEILING JOIST DETAIL

SCALE: N.T.S (10)



S610

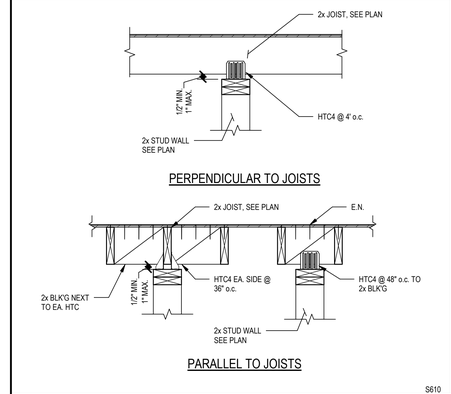
HOLES AND NOTCHES IN STUDS AND JOISTS

SCALE: N.T.S (6)

S610

TYPICAL BLOCKED DIAPHRAGM NAILING

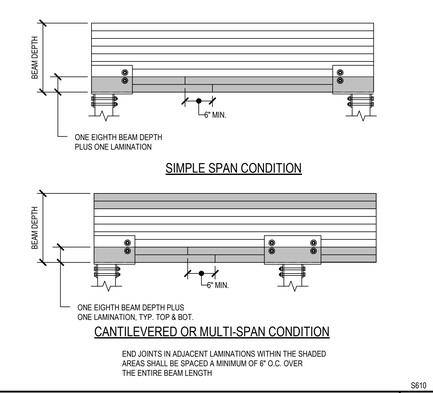
SCALE: N.T.S (2)



S610

TOP OF NON-BEARING WALL

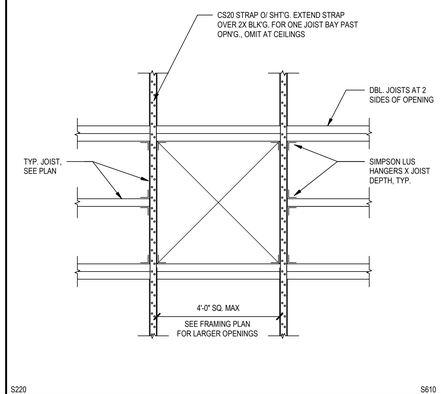
SCALE: 1" = 1'-0" (15)



S610

GLULAM BEAM END JOINTS

SCALE: N.T.S (11)



S220 S610

SMALL OPENING IN FLOOR, CEILING, OR ROOF

SCALE: N.T.S (7)

STRAP SCHEDULE

STRAP	END LENGTH	END NAIL	END LENGTH NAILING @ 3X/4X	END LENGTH NAILING @ I-JOIST
CMST12	39"*	43- 10d	FILL ALL HOLES	FILL ALTERNATE HOLES IN ROWS
CMST14	30"*	33- 10d		
CMSTC16	20"*	25- 10d		
CS14	15"*	13- 10d	FILL ALL HOLES	FILL ALTERNATE HOLES IN ROWS
CS16	11"*	10- 10d		
CSHP18	9"*	7- 10d		
CSHP20	8"*	6- 10d		
CS20	6"*	6- 10d		

* END LENGTH @ I-JOISTS = 2.0 x END LENGTH

S610

STRAP DETAIL

SCALE: N.T.S (12)

S610

WALL INTERSECTION - PLAN SECTION

SCALE: N.T.S (8)

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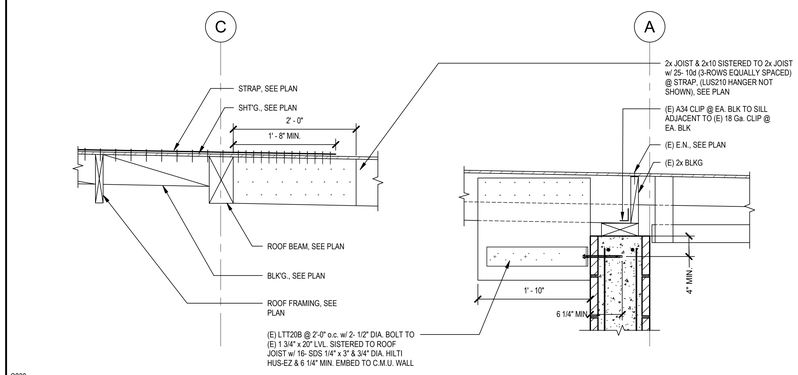
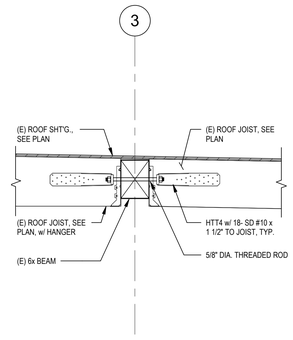


S230 S620

(E) WALL ANCHORAGE TO ROOF JOIST

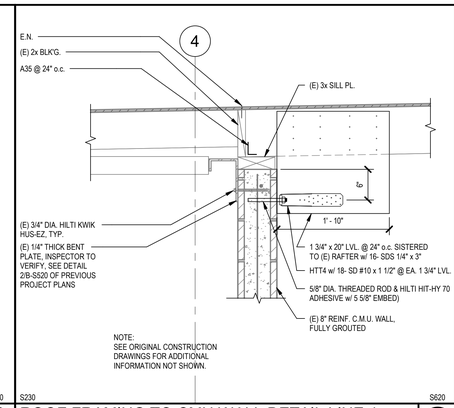
SCALE: 1" = 1'-0" — 13



S230 S620

ROOF JOIST TIE AT BEAM

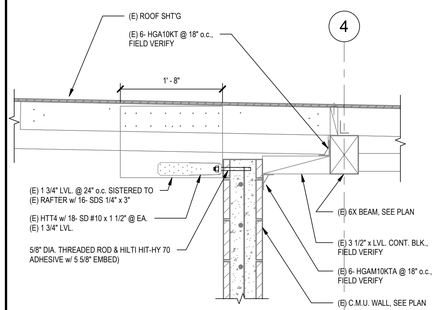
SCALE: 1" = 1'-0" — 9



S230 S620

ROOF FRAMING TO CMU WALL DETAIL LINE 4 BETWEEN C & D

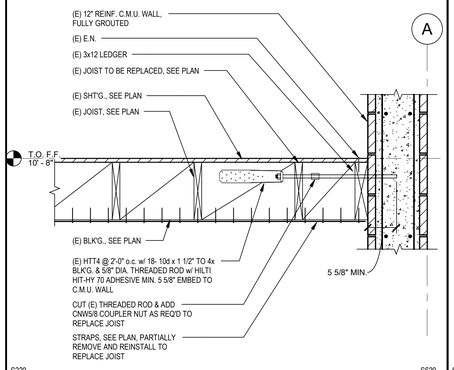
SCALE: 1" = 1'-0" — 5



S230 S620

ROOF FRAMING TO CMU WALL DETAIL LINE 4 BETWEEN K & L

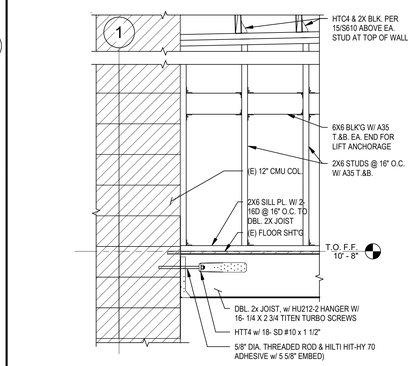
SCALE: 1" = 1'-0" — 1



S220 S620

(E) WALL ANCHORAGE AT SECOND FLOOR

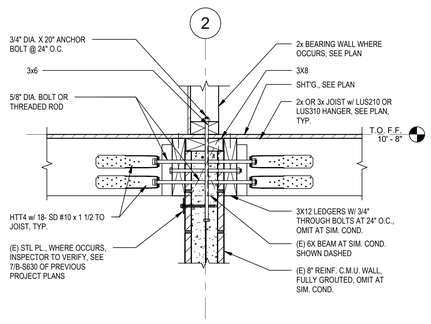
SCALE: 1" = 1'-0" — 18



S220 S620

DOUBLE JOIST TO (E) CMU COLUMN AT LIFT AT SECOND FLOOR

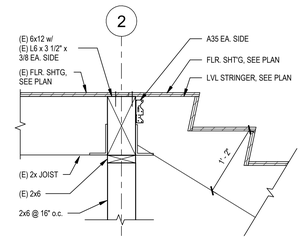
SCALE: 3/4" = 1'-0" — 14



S220 S620

JOIST SPLICE AT CMU WALL AT SECOND FLOOR

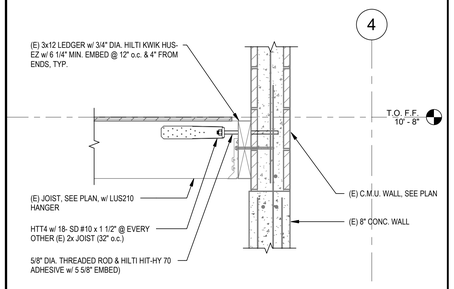
SCALE: 1" = 1'-0" — 10



S220 S620

TOP OF STAIR AT SECOND FLOOR

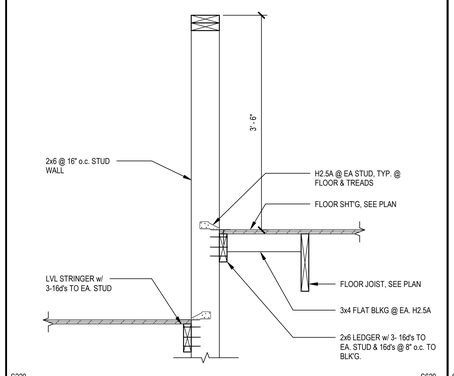
SCALE: 1" = 1'-0" — 6



S220 S620

SECOND FLOOR FRAMING DETAIL TO CMU WALL LINE 4 BETWEEN K & L

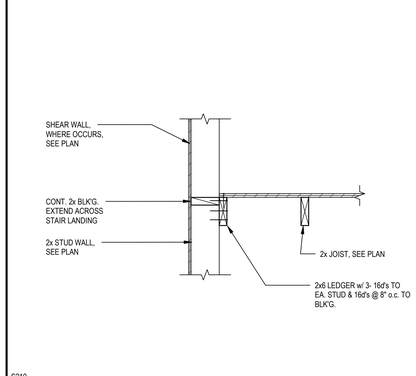
SCALE: 1" = 1'-0" — 2



S220 S620

WALL AT SIDE OF STAIRWELL AT SECOND FLOOR

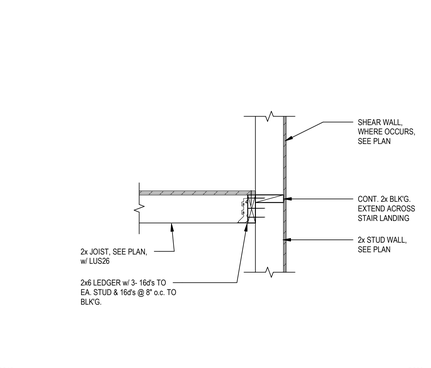
SCALE: 1" = 1'-0" — 19



S210 S620

WALL SECTION AT LANDING PARALLEL TO JOISTS

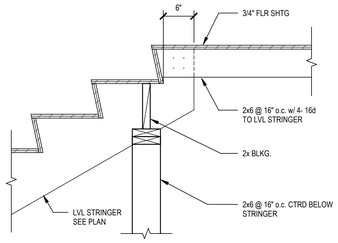
SCALE: 1" = 1'-0" — 15



S210 S620

WALL SECTION AT LANDING PERPENDICULAR TO JOISTS

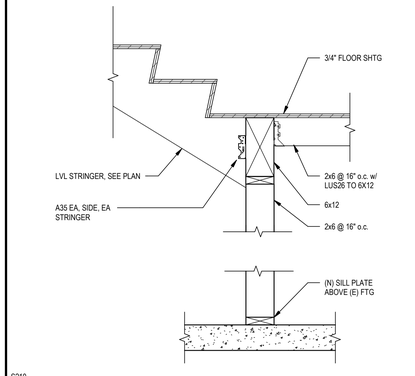
SCALE: 1" = 1'-0" — 11



S210 S620

TOP OF STAIR AT LANDING

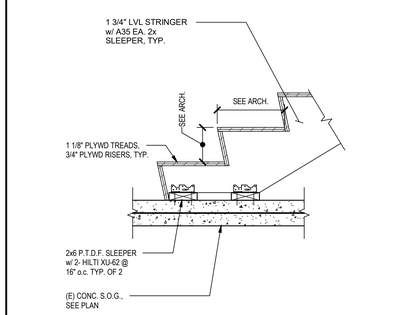
SCALE: 1" = 1'-0" — 7



S210 S620

BOTTOM OF STAIR AT LANDING

SCALE: 1" = 1'-0" — 3



S210 S620

STAIR SECTION AT STRINGER AT SLAB ON GRADE

SCALE: 1" = 1'-0" — 4

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File Name: Autodesk Docs://Humboldt County Probation/S_HCJ-PROBATION.rvt

MECHANICAL LEGEND

SYMBOLS	ABBREVIATIONS	
	ABC	ABOVE CEILING
	AFF	ABOVE FINISHED FLOOR
AD	AD	ACCESS DOOR
12/8	AL	ACOUSTIC LINED DUCT (DIM IS INTERNAL)
	AC	AIR CONDITIONING
	BHP	BRAKE HORSE POWER
CBD	CBD	COUNTERBALANCED BACKDRAFT DAMPER
	CFM	CUBIC FEET PER MINUTE
A / 123		DIFFUSER TAG
	D	DEMO
	DB	DRY BULB
12/8		DUCT (RECTANGULAR DUCT, DIMENSIONS IN INCHES)
12Ø		DUCT (ROUND DUCT, DIAMETER IN INCHES)
D		DUCT DROP IN DIRECTION OF ARROW
R		DUCT RISE IN DIRECTION OF ARROW
	EER	ENERGY EFFICIENCY RATIO
	EAT	ENTERING AIR TEMPERATURE
EA	EA	EXHAUST AIR DUCT
	EF	EXHAUST FAN
		EXHAUST GRILLE
	(E), EX	EXISTING
	ESP	EXTERNAL STATIC PRESSURE
	FPM	FEET PER MINUTE
		FLEXIBLE DUCT
	FLA	FULL LOAD AMPS
	LAT	LEAVING AIR TEMPERATURE
L		LOUVERED DOOR
	MOCP	MAXIMUM OVER CURRENT PROTECTION
	MCA	MINIMUM CIRCUIT AMPACITY
M		MOTORIZED DAMPER
	(N)	NEW
		NEW CONNECTION TO EXISTING
	OA	OUTSIDE AIR
1 / 123		REGISTER/GRILLE TAG
	(R), R	RELOCATE
		REMOVE TO THIS POINT
RA	RA	RETURN AIR DUCT
		RETURN GRILLE
	RL/RS	REFRIGERANT LINE SET
	SEER	SEASONAL ENERGY EFFICIENCY RATIO
SD	SD	SMOKE DETECTOR
SA	SA	SUPPLY AIR DUCT
		SUPPLY DIFFUSER
S		TEMPERATURE SENSOR
T	T'STAT	THERMOSTAT (48" AFF TOP OF BOX)
	TSP	TOTAL STATIC PRESSURE
		TURNING VANES
	TYP	TYPICAL
UC		UNDERCUT DOOR
	UG	UNDERGROUND
	VIF	VERIFY IN FIELD
		VOLUME DAMPER - MANUAL OPERATION
	WB	WET BULB

HEATING AND VENTILATING UNIT SCHEDULE

						Supply Fans		Gas Heating Section			Electrical Data				
ID	Manufacturer	Model	Location Served	Airflow (CFM)	ESP	Airflow CFM	Motor HP	Gas Input (MBH)	Gas Output (MBH)	Burner EFF	Service	MCA	MOCP	Weight (lbs)	Notes
(E) HV-1	REZNOR	CAUA-200	SECOND FLOOR	2150	0.50 in-wg	793	0.75 hp	200.0	160.0	80%	208-3-60	4.6	15	355	1-2
(E) HV-2	REZNOR	CAUA-200	SECOND FLOOR	2250	0.50 in-wg	807	0.75 hp	200.0	160.0	80%	208-3-60	4.6	15	355	1-2
(E) HV-3	REZNOR	CAUA-200	FIRST FLOOR	2025	0.50 in-wg	778	0.75 hp	200.0	160.0	80%	208-3-60	4.6	15	355	1-2
(E) HV-4	REZNOR	CAUA-200	FIRST FLOOR	2000	0.50 in-wg	777	0.75 hp	200.0	160.0	80%	208-3-60	4.6	15	355	1-2

Notes:
1. PROVIDE WITH 7-DAY PROGRAMMABLE THERMOSTAT IN 201-RECEPTION AND REMOTE TEMPERATURE SENSOR IN HALL.
2. PROVIDE WITH SUPPLY AIR SMOKE DETECTOR.

MINI-SPLIT SCHEDULE

					Cooling		Heating		Electrical Data					
ID	Service	Manufacturer	Model	Nominal Tonnage	MBh	Rated Conditions	MBh	Rated Conditions	Service	MCA	MOCP	Dimensions	Weight (lbs)	Notes
FC-1	108 - COMPUTER ROOM	DAIKIN	FTXS12LVJU	1	12000	95°F AMB/ 80°F DB, 67°F WB	14400	47°F AMB/ 70°F DB, 60°F WB	--	--	--	32"WX9"DX12"H	20	1-4
HP-1	108 - COMPUTER ROOM	DAIKIN	RXS12LVJU	1	12000	95°F AMB/ 80°F DB, 67°F WB	14400	47°F AMB/ 70°F DB, 60°F WB	208/1/60	8.75	15	31"WX12"DX22"H	75	1

Notes:
1. INDOOR UNIT POWERED BY OUTDOOR UNIT.
2. PROVIDE WITH ALL NECESSARY REFRIGERATION PIPING AND APPURTANCES.
3. PROVIDE WITH DACA-C2P1-1 CONDENSATE PUMP.
4. PROVIDE WITH WIRED THERMOSTAT.

EXHAUST FAN SCHEDULE

ID	Location	Manufacturer	Model	CFM	S.P.	Fan Drive	Service	Motor HP	Weight (lbs)	Notes
EF-1	ROOF	GREENHECK	G-160-VG	3560	0.75	DIRECT	208/1/60	2	125	1-2

NOTES:
1. SCHEDULE FAN TO RUN DURING ALL OCCUPIED HOURS WITH ASTRONOMIC TIMECLOCK.
2. PROVIDE WITH MANUFACTURER'S ROOF CURB.

AIR INLET SCHEDULE

ID	Manufacturer	Model	Mounting	Module Size	Face Size	Neck Size	Material	Finish	Notes
1	TITUS	50F	SURFACE	12X12	12X12	SEE PLANS	ALUMINUM	#26 WHITE	1, 4
2	TITUS	50F	LAY-IN	24X24	22X22	SEE PLANS	ALUMINUM	#26 WHITE	1
3	TITUS	50F	LAY-IN	24X12	22X10	SEE PLANS	ALUMINUM	#26 WHITE	1, 4
4	TITUS	350RL	SURFACE	16X8	16X8	SEE PLANS	ALUMINUM	#26 WHITE	2
5	TITUS	350RL	SURFACE	16X6	16X6	SEE PLANS	ALUMINUM	#26 WHITE	2, 4
6	TITUS	350RL	SURFACE	14X6	14X6	SEE PLANS	ALUMINUM	#26 WHITE	1, 4
7	TITUS	CT-580	SURFACE	14X6	14X6	SEE PLANS	ALUMINUM	#26 WHITE	3

NOTES:
1. EGGCRATE RETURN GRILLE
2. 3/4" BLADE SPACING, 35 DEGREE DEFLECTION, BLADES PARALLEL TO LONG DIMENSION.
3. 1/8" BARS, 1/2" SPACING, ZERO DEGREEE DELFLECTION.
4. PROVIDE WITH OPPOSED BLADE DAMPER.

AIR OUTLET SCHEDULE

ID	Manufacturer	Model	Mounting	Module Size	Air Terminal - Face Size	Neck Size	Material	Finish	Notes
A	TITUS	TDC	LAY-IN	12X12	12X12	SEE PLANS	STEEL	#26 WHITE	1, 3
B	TITUS	TDC	LAY-IN	24X24	22X22	SEE PLANS	STEEL	#26 WHITE	1, 3
C	TITUS	TDC	LAY-IN	24X12	22X10	SEE PLANS	STEEL	#26 WHITE	1, 3
D	TITUS	272FL	SURFACE	16X6	16X6	SEE PLANS	STEEL	#26 WHITE	2-3

NOTES:
1. SEE PLANS FOR 1, 2, OR 4-WAY THROW
2. AEROBLADE DOUBLE DEFLECTION SUPPLY GRILLE, 3/4 BLADE SPACING
3. PROVIDE WITH OPPOSED BLADE DAMPER.

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STATE OF CALIFORNIA

KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE
EUREKA, CA 95501

SHEET TITLE

MECHANICAL LEGEND AND SCHEDULES

DRAWING STATUS
CONSTRUCTION DOCUMENTS

Drawn By	JM
Date Issued	06.01.2023
Scale	1/8" = 1'-0"
Project No.	22-6507

SHEET No.

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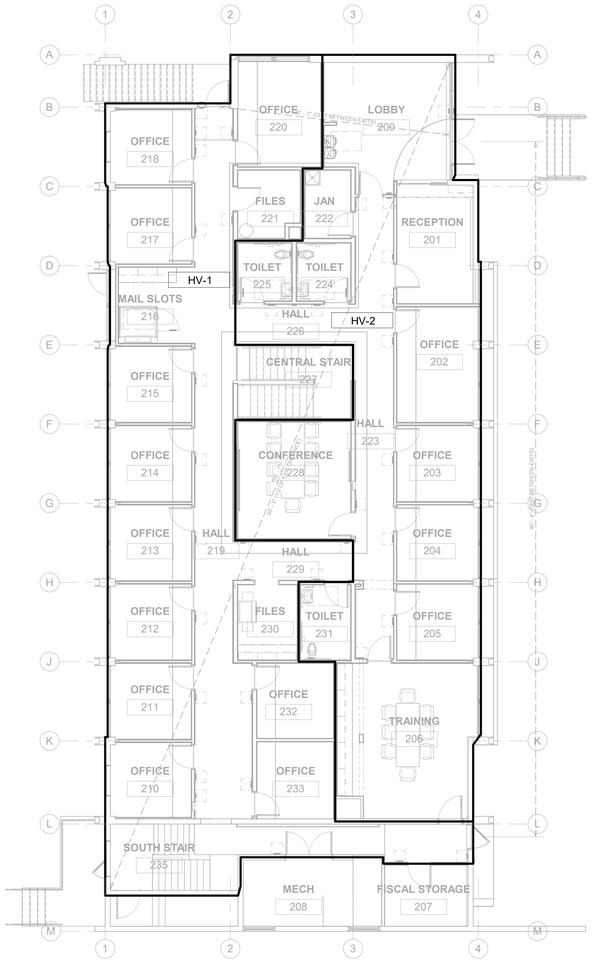
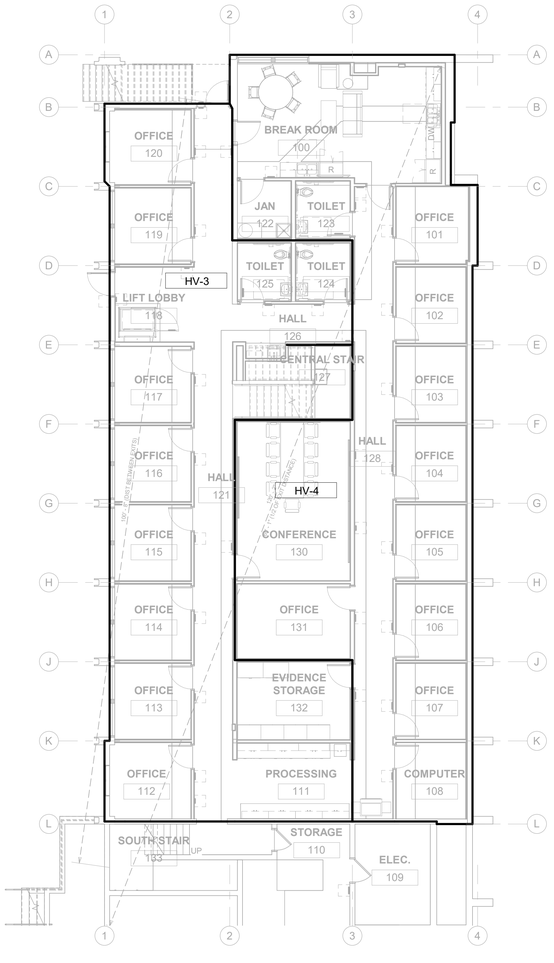


2 / M110 MECHANICAL SECOND FLOOR ZONING PLAN

1/8" = 1'-0"

N



1 / M110 MECHANICAL FIRST FLOOR ZONING PLAN

1/8" = 1'-0"

N

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COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE
EUREKA, CA 95501

SHEET TITLE

MECHANICAL ZONING PLANS

DRAWING STATUS
CONSTRUCTION DOCUMENTS

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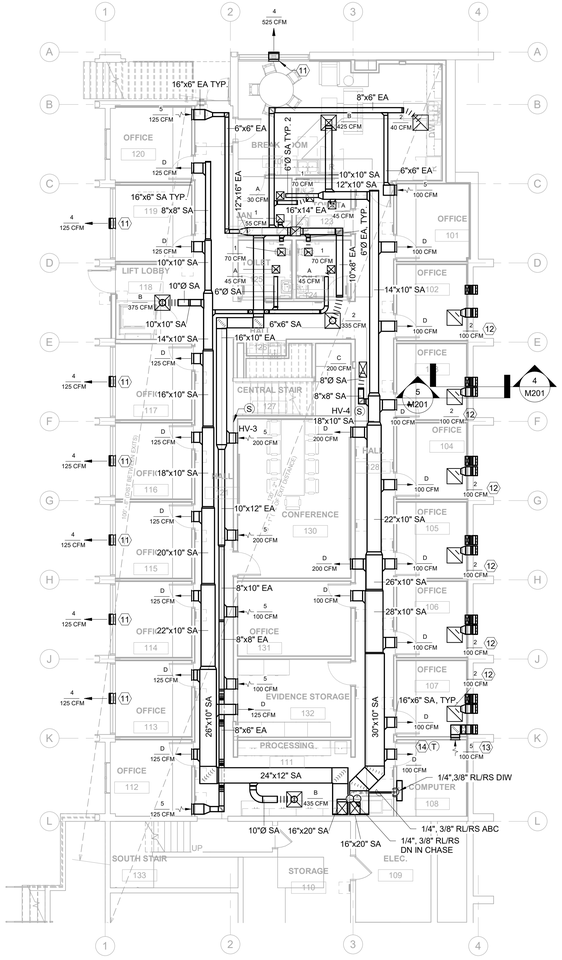
KEYED NOTES:

(11) REPLACE EXISTING BACKDRAFT DAMPER AND EXISTING LOUVER. MATCH EXISTING SIZES.

(12) NEW RELIEF GRILLE IN CEILING. ROUTE RELIEF DUCT BETWEEN CEILING/FLOOR FRAMING.

(13) NEW RELIEF GRILLE ON WALL. ROUTE RELIEF DUCT BETWEEN CEILING/FLOOR FRAMING.

(14) MOUNT THERMOSTAT 46" ABOVE FINISH FLOOR. COORDINATE FINAL LOCATION WITH OWNER.

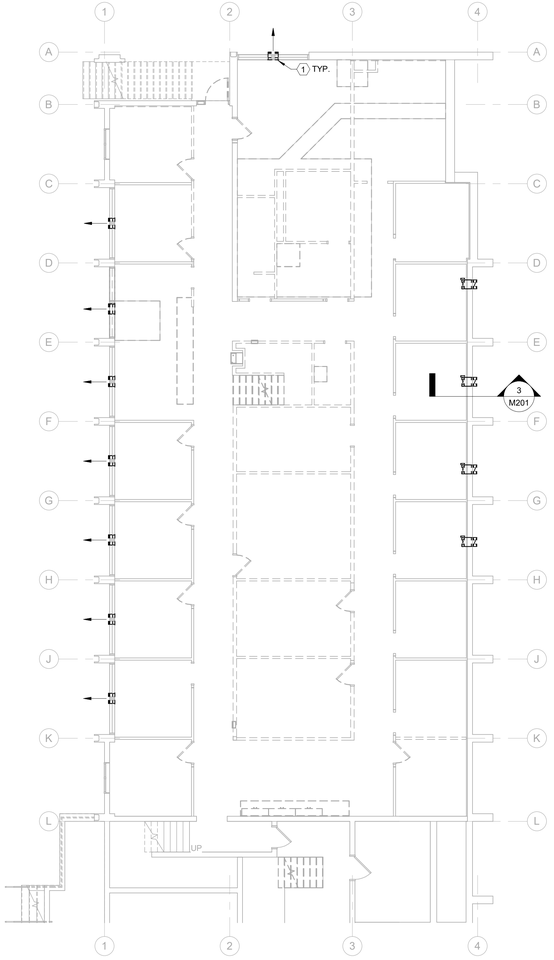


2 M201 MECHANICAL FIRST FLOOR NEW PLAN

1/8" = 1'-0"

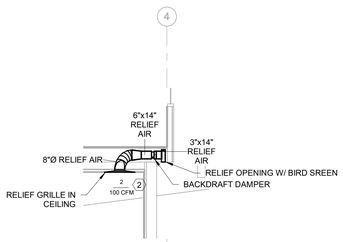
KEYED NOTES:

(1) REMOVE EXISTING TRANSFER DUCT, BACKDRAFT DAMPER AND EXISTING LOUVER.



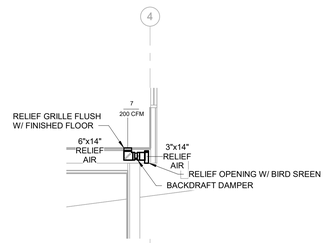
1 M201 MECHANICAL FIRST FLOOR DEMOLITION PLAN

1/8" = 1'-0"



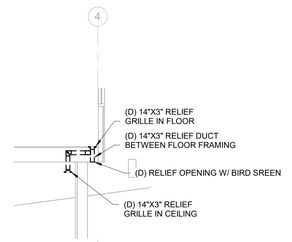
5 M201 CEILING RELIEF GRILLE SECTION

1/4" = 1'-0"



4 M201 FLOOR RELIEF GRILLE SECTION

1/4" = 1'-0"



3 M201 RELIEF GRILLE DEMOLITION SECTION

1/4" = 1'-0"

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KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE
EUREKA, CA 95501

SHEET TITLE

MECHANICAL FIRST FLOOR PLANS

DRAWING STATUS
CONSTRUCTION DOCUMENTS

Drawn By	JM
Date Issued	06.01.2023
Scale	As indicated
Project No.	22-6507

SHEET No.

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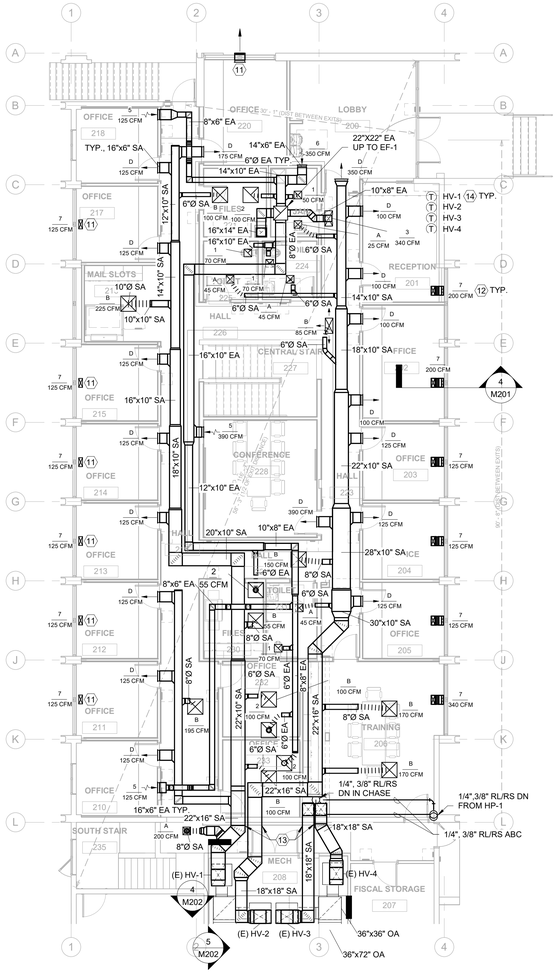
KEYED NOTES:

(11) REPLACE EXISTING BACKDRAFT DAMPER AND EXISTING LOUVER.

(12) NEW RELIEF GRILLES IN FLOOR. ROUTE RELIEF DUCT BETWEEN CEILING/FLOOR FRAMING.

(13) CONTRACTOR TO VERIFY EXISTING CMU OPENINGS AND FABRICATE DUCTWORK TO MATCH OPENING SIZES.

(14) MOUNT THERMOSTAT 48" ABOVE FINISH FLOOR. COORDINATE FINAL LOCATION WITH OWNER.

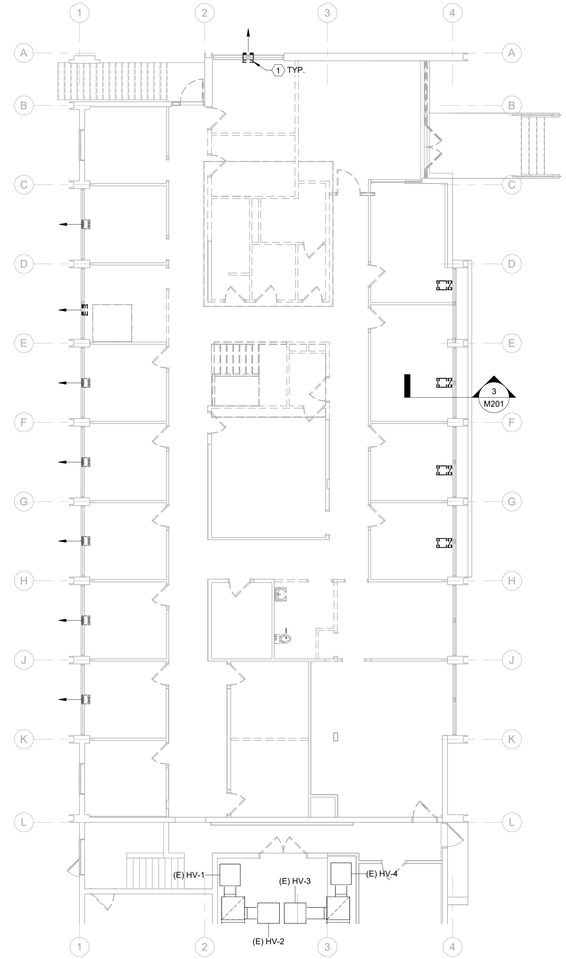


2 M202 MECHANICAL SECOND FLOOR NEW PLAN

1/8" = 1'-0"

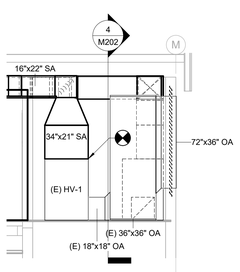
KEYED NOTES:

(1) REMOVE EXISTING TRANSFER DUCT AND BACKDRAFT DAMPER AND EXISTING LOUVER.



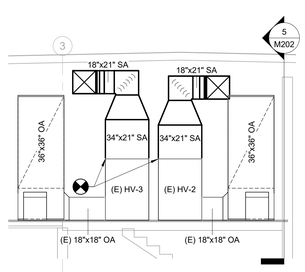
1 M202 MECHANICAL SECOND FLOOR DEMOLTION PLAN

1/8" = 1'-0"



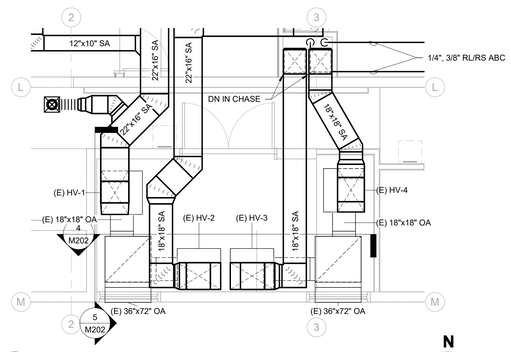
5 M202 HV SECTION SIDE VIEW

1/4" = 1'-0"



4 M202 HV SECTION FRONT VIEW

1/4" = 1'-0"



3 M202 MECHANICAL ROOM ENLARGED PLAN

1/4" = 1'-0"

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STATE OF CALIFORNIA

KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE
EUREKA, CA 95501

SHEET TITLE

MECHANICAL SECOND FLOOR PLANS

DRAWING STATUS
CONSTRUCTION DOCUMENTS

Drawn By	JM
Date Issued	06.01.2023
Scale	As indicated
Project No.	22-6507

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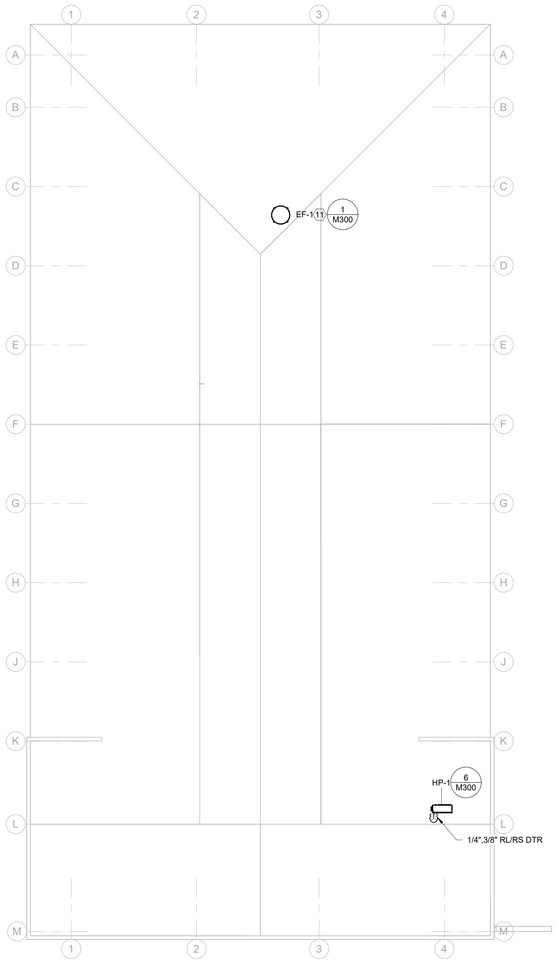
KEYED NOTES:

(11) LOCATE NEW EXHAUST FAN CURB OVER EXISTING EXHAUST FAN ROOF PENETRATION.

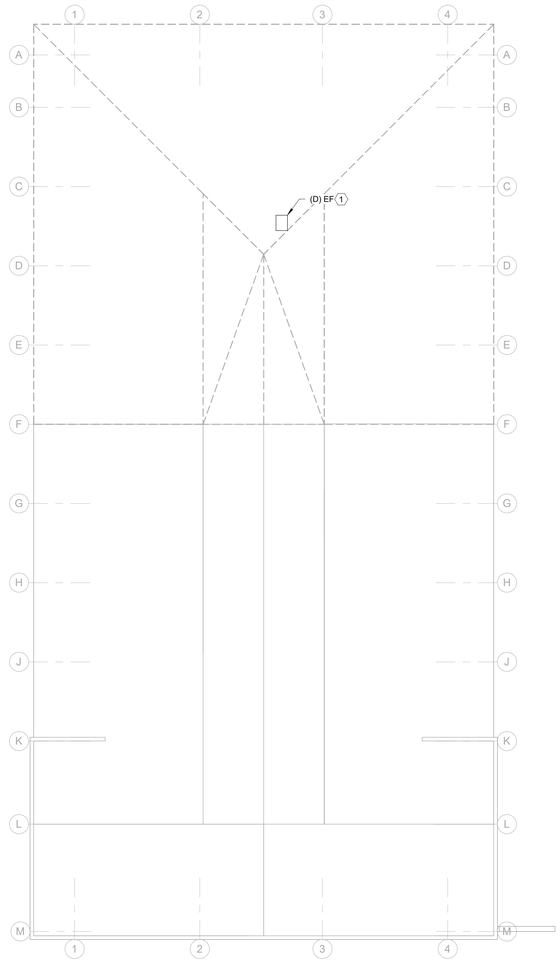


2 M240 MECHANICAL ROOF PLAN
1/8" = 1'-0"

N

KEYED NOTES:

(1) REMOVE EXISTING ROOF EXHAUST FAN. PREPARE ROOF FOR INSTALLATION OF NEW EQUIPMENT.



1 M240 MECHANICAL ROOF DEMOLITION PLAN
1/8" = 1'-0"

N

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PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE
EUREKA, CA 95501

SHEET TITLE

MECHANICAL ROOF PLANS

DRAWING STATUS
CONSTRUCTION DOCUMENTS

Drawn By	JM
Date Issued	06.01.2023
Scale	1/8" = 1'-0"
Project No.	22-6507

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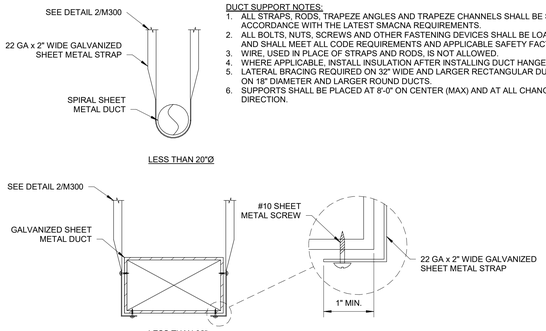
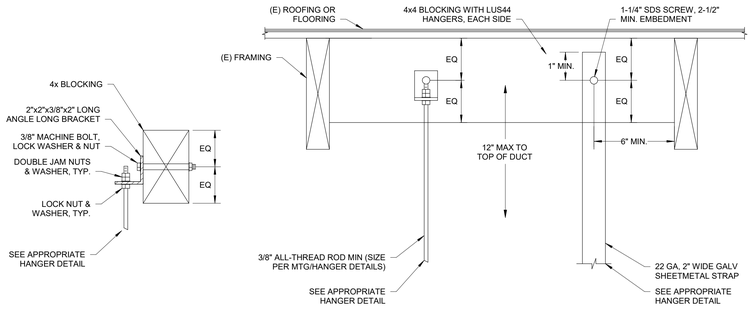


DUCT SUPPORT NOTES:

1. ALL STRAPS, RODS, TRAPEZE ANGLES AND TRAPEZE CHANNELS SHALL BE SIZED IN ACCORDANCE WITH THE LATEST SMACNA REQUIREMENTS.
2. ALL BOLTS, NUTS, SCREWS AND OTHER FASTENING DEVICES SHALL BE LOAD-RATED AND SHALL MEET ALL CODE REQUIREMENTS AND APPLICABLE SAFETY FACTORS.
3. WIRE, USED IN PLACE OF STRAPS AND RODS, IS NOT ALLOWED.
4. WHERE APPLICABLE, INSTALL INSULATION AFTER INSTALLING DUCT HANGERS.
5. LATERAL BRACING REQUIRED ON 32" WIDE AND LARGER RECTANGULAR DUCTS AND ON 18" DIAMETER AND LARGER ROUND DUCTS.
6. SUPPORTS SHALL BE PLACED AT 8'-0" ON CENTER (MAX) AND AT ALL CHANGES IN DIRECTION.

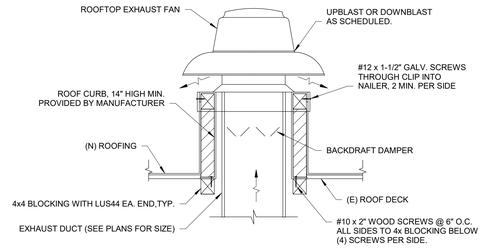
3 M300 TYPICAL DUCT HANGER DETAILS

1/8" = 1'-0"



2 M300 TYPICAL DUCT HANGER CONNECTION DETAILS

1/8" = 1'-0"

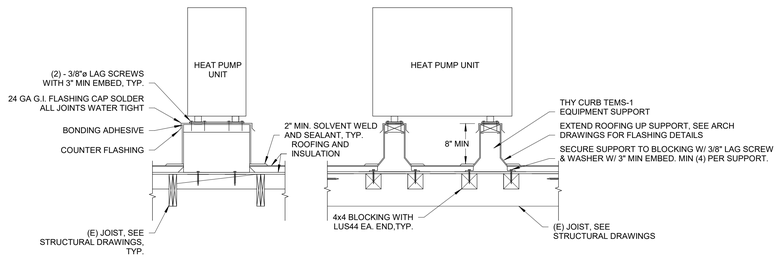


NOTES:

1. CURBS & FANS SHALL BE FROM THE SAME MANUFACTURER.
2. SEE ARCHITECTURAL DRAWINGS FOR ROOFING, INSULATION, AND FLASHING REQUIREMENTS.

1 M300 ROOF EXHAUST FAN DETAIL

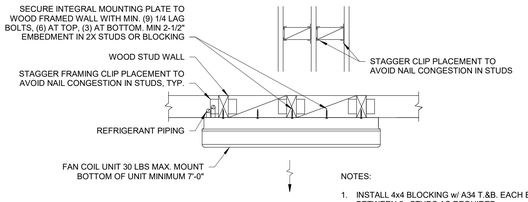
NOT TO SCALE



SIDE VIEW FRONT VIEW

6 M300 HEAT PUMP ON ROOF DETAIL

NOT TO SCALE



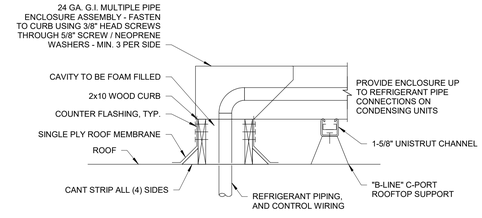
PLAN VIEW

NOTES:

1. INSTALL 4x4 BLOCKING w/ A34 T.&B. EACH END BETWEEN 2x STUDS AS REQUIRED.
2. REFRIGERANT AND CONDENSATE PIPING MAY NOT BE EXPOSED IN THE SPACE. PROVIDE WITH SHEET METAL COVER. PAINT TO MATCH EXISTING.
3. MOUNT BOTTOM OF FAN COIL MINIMUM 96" ABOVE FINISHED FLOOR.

5 M300 WALL MOUNTED FAN COIL DETAIL

NOT TO SCALE



NOTES:

1. ALL PIPES ENTERING THE PIPE ENCLOSURE ASSEMBLY SHALL BE SLOPED UPWARD AS THEY ENTER THE FLASHING SO THAT WATER WILL NOT BE ABLE TO RUN INTO THE BUILDING.
2. CLEAN AND PRIME THE ENTIRE TIE-IN AREA.

4 M300 REFRIGERANT PIPING THRU ROOF DETAIL

1/8" = 1'-0"

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KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE
EUREKA, CA 95501

SHEET TITLE

MECHANICAL DETAILS

DRAWING STATUS
CONSTRUCTION DOCUMENTS

Drawn By	JM
Date Issued	06.01.2023
Scale	1/8" = 1'-0"
Project No.	22-6507

SHEET No.

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Project Name:	HUMBOLDT COUNTY PROBATION REMODEL	Date Prepared:	2023-05-08

A. General Information

1	Project Name	HUMBOLDT COUNTY PROBATION REMODEL			
2	Run Title	Title 24 Analysis			
3	Project Location	2002 Harrison Avenue			
4	City	Eureka	5	Standards Version	Compliance 2022
6	Zip code	95501	7	Compliance Software (version)	EnergyPro 9.1
8	Climate Zone	1	9	Building Orientation (deg)	0
10	Building Type(s)	• Nonresidential	11	Weather File	WOODLEY-ISLAND_STYP20.epw
12	Project Scope	• Existing alteration	13	Number of Dwelling Units	0
14	Total Conditioned Floor Area in Scope (ft^2)	9597	15	Total # of hotel/motel rooms	0
16	Total Unconditioned Floor Area (ft^2)	0	17	Fuel Type	Natural gas
18	Nonresidential Conditioned Floor Area	9597	19	Total # of Stories (Habitable Above Grade)	1
20	Residential Conditioned Floor Area	0			

B. PROJECT SUMMARY

Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within the permit application.

Building Components Complying via Performance				
Envelope (See Table G)	Nonres	Not Included	Solar Thermal Water Heating (See Table I3)	☐ Performance
	MultiFam	Not Included		☒ Not Included
Mechanical (See Table H)	Nonres	Performance	Covered Process: Commercial Kitchens (see Table J)	☐ Performance
	MultiFam	Not Included		☒ Not Included
Domestic Hot Water (See Table I)	Nonres	Not Included	Covered Process: Laboratory Exhaust (see Table J)	☐ Performance
	MultiFam	Not Included		☒ Not Included
Lighting (Indoor Conditioned, see Table K)	Nonres	Performance	Photovoltaics (see Table F)	☒ Performance
	MultiFam	Not Included		☐ Not Included
			Battery (see Table F)	☐ Performance
				☒ Not Included

Building Components Complying Prescriptively	
The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).	
Indoor Lighting (Unconditioned) 140.6 & 170.2(e)	NRCC-LTI-E is required
Outdoor Lighting 140.7 & 170.2(e)	NRCC-LTO-E is required
Sign Lighting 140.8 & 170.2(e)	NRCC-LTS-E is required
Building Components Complying with Mandatory Measures	
Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)	
Electrical Power Distribution 110.11	NRCC-ELC-E is required
Commissioning 120.8	NRCC-CXR-E is required
Solar and Battery 110.10	NRCC-SAB-E is required

C1. COMPLIANCE SUMMARY

COMPLIES[3]

	Time Dependent Valuaton (TDV)		Source Energy Use
	Efficiency[1] (kBtu/ft^2 - yr)	Total[2] (kBtu/ft^2 - yr)	Total[2] (kBtu/ft^2 - yr)
Standard Design	442.65	442.65	126.58
Proposed Design	428.07	428.07	126.18
Compliance Margins	**14.58**	**14.58**	**0.4**
	Pass	**Pass**	**Pass**

1 Efficiency measures include improvements like a better building envelope and more efficient equipment
2 Compliance Totals include efficiency, photovoltaics and batteries
3 Building complies when efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded

C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft^2 - yr)

COMPLIES[2]

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	323.73	328.24	-4.51
Space Cooling	7.93	0.36	7.57
Indoor Fans	69.52	63.02	6.5
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	8.25	8.26	-0.01
Indoor Lighting	33.22	28.19	5.03
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**442.65**	**428.07**	**14.58 (3.3%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**442.65**	**428.07**	**14.58 (3.3%)**

1 Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	139.71	139.71	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**582.36**	**567.78**	**14.58 (2.5%)**

1 Notes: This table is not used for Energy Code Compliance.

C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/ft^2 /yr)

COMPLIES[2]

Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Space Heating	115.73	117.24	-1.51
Space Cooling	0.86	0.04	0.82
Indoor Fans	6.71	6.01	0.7
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	0.69	0.69	0
Indoor Lighting	2.59	2.2	0.39
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**126.58**	**126.18**	**0.4 (0.3%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**126.58**	**126.18**	**0.4 (0.3%)**

1 Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Receptacle	11.56	11.56	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**138.14**	**137.74**	**0.4 (0.3%)**

1 Notes: This table is not used for Energy Code Compliance.

C6. 'ABOVE CODE' QUALIFICATIONS

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

C7. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	---	0.2	---	1192.5	1207.6	-15.1
Space Cooling	2.7	0.1	2.6	---	---	---
Indoor Fans	23.4	21.2	2.2	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	---	---	---	---	---	---
Domestic Hot Water	3.1	3.1	0	---	---	---
Indoor Lighting	12.8	10.9	1.9	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	**42**	**35.5**	**6.5**	**1192.5**	**1207.6**	**-15.1**
Photovoltaics	---	---	---	---	---	---
Batteries	---	---	---	---	---	---
ENERGY USE SUBTOTAL	**42**	**35.5**	**6.5**	**1192.5**	**1207.6**	**-15.1**
Receptacle	54	54	0	---	---	---
Process	---	---	---	---	---	---
Other Ltg	---	---	---	---	---	---
Process Motors	---	---	---	---	---	---
ENERGY USE TOTAL	**96**	**89.5**	**6.5**	**1192.5**	**1207.6**	**-15.1**

C8. ENERGY USE INTENSITY (EUI)

	Standard Design (kBtu/ft^2 / yr)	Proposed Design (kBtu/ft^2 / yr)	Margin (kBtu/ft^2 / yr)	Margin Percentage
GROSS EUI[1]	158.39	157.65	0.74	0.47
NET EUI[1]	158.39	157.65	0.74	0.47

1 Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.

F1. REQUIRED PV SYSTEMS

01	02	03	04	05	06	07	08	09	10	11	12
DC System Size (kWdc)	Exception[1]	Module Type	Array Type	Power Electronics	CFI	Azimuth (deg)	Tilt Input	Array Angle (deg)	Tilt: (x in 12)	Inverter Eff. (%)	Annual Solar Access (%)

1See Table D1 for any PV exceptions used.

F1B. PV BATTERY BUILDING TYPE(S)

01	02	03
Building Occupancy Type* (From Table 140.10-A/B and 170.2-U/V)	Conditioned Floor Area (ft^2)	Unconditioned Floor Area (ft^2)
Grocery	0	0
High-Rise Multifamily	0	0
Office, Financial Institutions, Unleased Tenant Space	9597	0
Retail	0	0
School	0	0
Warehouse	0	0
Auditorium, Convention Center, Hotel/Motel, Library, Medical Office Building/Clinic, Restaurant, Theater	0	0
None	0	0

**Building Occupancy Types are defined in Section 100.1 of the Energy Code*

H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01	02	03	04	05	06	07	08	09	10	11	12
			Heating				Cooling				
Equipment Name	Equipment Type	Qty	Total Heating Output (kBtu/h)	Supp Heat Output (kBtu/h)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency	Economizer Type (if present)	Status[1]
HV-1	Single Zone Air Conditioner (SZAC) Air System	1	160	0	AFUE	80	0	N/A	NA	No Economizer	E
HV-2	Single Zone Air Conditioner (SZAC) Air System	1	160	0	AFUE	80	0	N/A	NA	No Economizer	E
HV-3	Single Zone Air Conditioner (SZAC) Air System	1	160	0	AFUE	80	0	N/A	NA	No Economizer	E
HV-4	Single Zone Air Conditioner (SZAC) Air System	1	160	0	AFUE	80	0	N/A	NA	No Economizer	E
HP-1	Single Zone Heat Pump (SZHP) Air System	1	14.4	0	N/A	NA	12	EER SEER	12.8 23	No Economizer	N

1 Status: N - New, A - Altered, E - Existing

H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12	13
			Supply Fan				Return / Relief Fan					
Name or Item Tag	Qty	Design OA CFM	CFM	Power	Power Units	Control	Fan Type	CFM	Power	Power Units	Control	Status[1]
HV-1	1	386.55	2,100	0.75	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	E
HV-2	1	330.6	2,100	0.75	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	E
HV-3	1	294.45	2,100	0.75	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	E
HV-4	1	359.55	2,100	0.75	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	E
HP-1	1	0	403	0.03	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N

1 Status: N - New, A - Altered, E - Existing

H5. GENERAL EXHAUST FAN SUMMARY

01	02	03	04	05	06	07	08
System ID	Zone Name	Qty	CFM	Power	Power Units	Continuous Operation?	Status[1]
WEST ZONE 2nd FLOOR3	1-WEST ZONE 2nd FLOOR	1	890	0.3	BHP	No	E
EAST ZONE 2nd FLOOR89	2-EAST ZONE 2nd FLOOR	1	890	0.3	BHP	No	E
WEST ZONE 1st FLOOR158	3-WEST ZONE 1st FLOOR	1	890	0.3	BHP	No	E
EAST ZONE 1st FLOOR224	4-EAST ZONE 1st FLOOR	1	790	0.27	BHP	No	E
108 - COMPUTER290	5-108 - COMPUTER	1	100	0.03	BHP	No	E

1 Status: N - New, A - Altered, E - Existing

H8. SYSTEM SPECIAL FEATURES

01	02	03	04
System Name	Equipment Type	Interlocks per 140.4(n)[1]	Other Special Features and Controls
Undefined Plant1 - SHW	Service Hot Water	N/A	Fixed Temperature Control

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.
1 Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.

H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION

01	02	03	04	05	06	07
	Mechanical Ventilation					
Zone Name	Ventilation Function	# of People# of People	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
1-WEST ZONE 2nd FLOOR	Office - Office space	12.88	386.55	890	2577	N/A
2-EAST ZONE 2nd FLOOR	Office - Office space	11.02	330.6	890	2204	N/A
3-WEST ZONE 1st FLOOR	Office - Office space	9.81	294.45	890	1963	N/A
4-EAST ZONE 1st FLOOR	Office - Office space General - Unoccupied	12.51	359.55	790	2745	N/A
5-108 - COMPUTER	Misc - All others	0.16	16.2	100	108	N/A

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12
			Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
System ID	System Type	Qty	Heating	Cooling	Design	MIn.	Min. Ratio	Power	Power Units	Cycles	VSD
1-WEST ZONE 2nd FLOOR-Trm	Uncontrolled	1	N/A	N/A	2,100	N/A	0	N/A	N/A	N/A	☐

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12
			Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
System ID	System Type	Qty	Heating	Cooling	Design	MIn.	Min. Ratio	Power	Power Units	Cycles	VSD
2-EAST ZONE 2nd FLOOR-Trm	Uncontrolled	1	N/A	N/A	2,100	N/A	0	N/A	N/A	N/A	☐
3-WEST ZONE 1st FLOOR-Trm	Uncontrolled	1	N/A	N/A	2,100	N/A	0	N/A	N/A	N/A	☐
4-EAST ZONE 1st FLOOR-Trm	Uncontrolled	1	N/A	N/A	2,100	N/A	0	N/A	N/A	N/A	☐
5-108 - COMPUTER-Trm	Uncontrolled	1	N/A	N/A	403	N/A	0	N/A	N/A	N/A	☐

K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

01	02	03	04	05	06
				Additional (Custom) Allowance	
Occupancy Type[1]	Conditioned Floor Area[2] (ft^2)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Area Category Footnotes (Watts)	Area Category Footnotes (Watts)
Computer Room	108	58	0	0	0
Electrical Mechanical Telephone Room	348	100	0	0	0
Office (250 square feet)	9141	4656.1	0	0	0
Building Totals:	**9597**	**4814.1**	**0**	**0**	**0**

1See Table 140.6-C
2See NRCC-LTI--E for unconditioned spaces
3Lighting information for existing spaces modeled is not included in this table

K2. INDOOR CONDITIONED LIGHTING SCHEDULE

Luminaire Schedule (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft^2 in offices)

01	02	03	04	05	06
		Installed Watts (Conditioned)			
Name or Item Tag	Complete Luminaire Description (i.e. 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per luminaire	How is Wattage determined	Total Number of Luminaires	Installed Watts
TYPE 1	HC PROBATION - TYPE 1 - EPANL - 29.0VA	29	According to	96	2784
TYPE 3	HC PROBATION - TYPE 3 - EPANL - 45.0VA	45	According to	8	360
TYPE 8	HC PROBATION - TYPE 8 - B3SDM-UA - 18.2VA	18.2	According to	13	236
TYPE 7	HC PROBATION - TYPE 7 - EVO6W - 19.7VA	19.7	According to	2	39
TYPE 2	HC PROBATION - TYPE 2 - EPANL - 37.6VA	37.6	According to	10	376
TYPE 12	HC PROBATION - TYPE 12 - LEDUC-E - 9.7VA	9.7	According to	13	126
TYPE 5	HC PROBATION - TYPE 5 - EVO4 - 31.2VA	31.2	According to	8	249
TYPE 6	HC PROBATION - TYPE 6 - EVO6 - 19.7VA	19.7	According to	12	236
TYPE 10	HC PROBATION - TYPE 10 - SQM4 - 122.4VA	122.4	According to	1	122
TYPE 11	HC PROBATION - TYPE 11 - SQM4 - 183.6VA	183.6	According to	1	183
9	HC PROBATION - TYPE 9 - BLWP4 - 25VA	25	According to	4	100

1If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per 140.6(a)2 and Table 140.6-A)

01	02	03	04	05	06	07	08	09
Area Description	Primary Function Area (must meet requirements of Table 140.6-A and 170.2-L)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Item Tag	Watts per Luminaire	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
S-1-WEST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-1-WEST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-1-WEST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-1-WEST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-1-WEST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-1-WEST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-1-WEST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-1-WEST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-1-WEST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-1-WEST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	7	203	0
S-1-WEST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 3	45	2	90	0
S-1-WEST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	1	29	0
S-1-WEST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	1	29	0

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per 140.6(a)2 and Table 140.6-A)

01	02	03	04	05	06	07	08	09
Area Description	Primary Function Area (must meet requirements of Table 140.6-A and 170.2-L)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Item Tag	Watts per Luminaire	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
S-1-WEST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-1-WEST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-1-WEST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-2-EAST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 8	18.2	7	127.4	0
S-2-EAST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 7	19.7	2	39.4	0
S-2-EAST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 3	45	2	90	0
S-2-EAST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 3	45	2	90	0
S-2-EAST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-2-EAST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-2-EAST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-2-EAST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 2	37.6	4	150.4	0
S-2-EAST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 12	9.7	5	48.5	0
S-2-EAST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 5	31.2	1	31.2	0

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per 140.6(a)2 and Table 140.6-A)

01	02	03	04	05	06	07	08	09
Area Description	Primary Function Area (must meet requirements of Table 140.6-A and 170.2-L)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Item Tag	Watts per Luminaire	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
S-2-EAST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	5	145	0
S-2-EAST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 5	31.2	1	31.2	0
S-2-EAST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 5	31.2	1	31.2	0
S-2-EAST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 8	18.2	6	109.2	0
S-2-EAST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 6	19.7	6	118.2	0
S-2-EAST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 10	122.4	1	122.4	0
S-2-EAST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 5	31.2	1	31.2	0
S-3-WEST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-3-WEST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 12	9.7	8	77.6	0
S-3-WEST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-3-WEST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-3-WEST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-3-WEST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per 140.6(a)2 and Table 140.6-A)

01	02	03	04	05	06	07	08	09
Area Description	Primary Function Area (must meet requirements of Table 140.6-A and 170.2-L)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Item Tag	Watts per Luminaire	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
S-3-WEST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-3-WEST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-3-WEST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	1	29	0
S-3-WEST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-3-WEST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-3-WEST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	8	232	0
S-3-WEST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 5	31.2	1	31.2	0
S-3-WEST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 5	31.2	1	31.2	0
S-3-WEST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	1	29	0
S-4-EAST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-4-EAST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-4-EAST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-4-EAST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per 140.6(a)2 and Table 140.6-A)

01	02	03	04	05	06	07	08	09
Area Description	Primary Function Area (must meet requirements of Table 140.6-A and 170.2-L)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Item Tag	Watts per Luminaire	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
S-4-EAST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-4-EAST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-4-EAST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-4-EAST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 5	31.2	1	31.2	0
S-4-EAST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 5	31.2	1	31.2	0
S-4-EAST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	6	174	0
S-4-EAST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 6	19.7	6	118.2	0
S-4-EAST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 11	183.6	1	183.6	0
S-4-EAST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 3	45	2	90	0
S-4-EAST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-4-EAST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 2	37.6	6	225.6	0
S-5-Unconditioned Zone	Electrical Mechanical Telephone Room	N/A	N/A	9	25	2	50	0
S-5-Unconditioned Zone	Electrical Mechanical Telephone Room	N/A	N/A	9	25	2	50	0

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per 140.6(a)2 and Table 140.6-A)

01	02	03	04	05	06	07	08	09
Area Description	Primary Function Area (must meet requirements of Table 140.6-A and 170.2-L)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Item Tag	Watts per Luminaire	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
S-6-108 - COMPUTER	Computer Room	N/A	N/A	TYPE 1	29	2	58	0
Lighting Control Credits (Conditioned) Total (Watts)								0

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL

Building Level Controls

01	02
Mandatory Demand Response 110.12(c)	Shut-Off Controls 130.1(c) & 160.5(b)4C
Required	Required

See NRCC-LTI-E for mandatory controls

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

Building Component	Form/Title
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings
Mechanical	NRCI-MCH-E - For all buildings with Mechanical Systems
Plumbing	NRCI-PLB-01-E - Must be submitted for all buildings
Plumbing	NRCI-PLB-E - For all buildings with Plumbing Systems
Indoor Lighting	NRCI-LTI-01-E - Must be submitted for all buildings
Indoor Lighting	NRCI-LTI-E - Indoor Lighting (for all buildings)

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).

Building Component	Form/Title
Indoor Lighting	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls.
Mechanical	NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
Mechanical	NRCA-MCH-03-A - Constant Volume Single Zone HVAC

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

There are no Certificates of Verification applicable to this project

Documentation Author's Declaration Statement

1. I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name: Ben Abrahamsen	Documentation Author Signature: Ben Abrahamsen
Company: Frontier Consulting Engineering, Inc.	Signature Date: May 08, 2023
Address: 2727 Bechelli Lane	CEA/HERS Certification Identification (if applicable): M35923
City/State/Zip: Redding, Ca 96002	Phone: 530 232 6160

Responsible Person's Declaration statement

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

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

Responsible Designer Name: Ben R. Abrahamsen	Responsible Designer Signature: Ben Abrahamsen	
Company: Frontier Consulting Engineers, Inc.		
Address: 2727 Bechelli Lane	Date Signed: May 08, 2023	
City/State/Zip: Redding, CA 96002	License #: M35923	
Phone: 530.232.6160	Title: Mechanical Engineer	Scope:

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REVISIONS

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LICENSE STAMPS

REGISTERED PROFESSIONAL ENGINEER
B. R. ABRAHAMSEN
No. M35923
EXP. 3-31-2024
MECHANICAL
STATE OF CALIFORNIA

KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

**2002 HARRISON AVENUE
EUREKA, CA 95501**

SHEET TITLE

TITLE 24 COMPLIANCE FORMS

DRAWING STATUS
CONSTRUCTION DOCUMENTS

Drawn By	JM
Date Issued	06.01.2023
Scale	
Project No.	22-6507

SHEET No.

M400

Plot Date: 6/6/2023 9:25:01 AM
File Name: Autodesk Docs://Humboldt County Probation/MP_HCJ-PROBATION.rvt

PLUMBING LEGEND

SYMBOLS	ABBREVIATIONS	
	ABC	ABOVE CEILING
	BFP	BACKFLOW PREVENTER
		BALL VALVE
	BG	BELOW GRADE
	BS	BELOW SLAB
		CHECK VALVE
	CW	COLD WATER SUPPLY
	CD	CONDENSATE DRAIN
	CDO	CONDENSATE DRAIN OVERFLOW
		CONNECTION TO BOTTOM OF PIPE
		CONNECTION TO TOP OF PIPE
	D	DEMO
		DOMESTIC COLD WATER
		DOMESTIC HOT WATER
	DN	DOWN
	DIW	DOWN IN WALL
	E, EX	EXISTING
		FLANGE
	FCO	FLOOR CLEAN OUT
	FD	FLOOR DRAIN
	FS	FLOOR SINK
	GSM	GALVANIZED SHEET METAL
	GCO	GRADE CLEAN OUT
	GW	GREASE WASTE
	HB	HOSE BIB
	HW	HOT WATER SUPPLY
	HWR	HOT WATER RECIRC
	N	NEW
		NEW CONNECTION TO EXISTING
	OH	OVERHEAD
		PIPE CAP
		PIPE TURNED DOWN
		PIPE TURNED UP
		PRESSURE GAUGE
		PRESSURE REGULATOR
		P-TRAP
		RELIEF VALVE
		REMOVE TO THIS POINT
	SS	SANITARY SEWAGE (BELOW GRADE)
	SOV	SHUT-OFF VALVE
	SK	SINK
		STRAINER
		THERMOMETER
	TMV	THERMOSTATIC VALVE
	TP	TRAP PRIMER
		TRIPLE DUTY VALVE
	UG	UNDERGROUND
		UNION
	UIW	UP IN WALL
	UR	URINAL
	V	VENT
	VTR	VENT TO ROOF
	WC	WATER CLOSET
	WHA	WATER HAMMER ARRESTER
	WCO	WALL CLEANOUT

PIPING MATERIALS SCHEDULE

Service	Location	Size	Material	Notes
WASTE & VENT	INTERIOR, AFF	ALL	STANDARD WEIGHT HUBLESS CAST IRON	SLOPED AT 1/4" PER FOOT
	INTERIOR, BELOW SLAB		STANDARD WEIGHT HUBLESS CAST IRON	
CW / HW	INTERIOR, ABOVE GROUND	ALL	TYPE "L" COPPER	PEX PIPING NOT ACCEPTABLE; INSULATE PER SECTION 22 00 00
	INTERIOR, BELOW SLAB	ALL	TYPE "K" COPPER	
GAS	EXTERIOR, ABOVE GRADE	ALL	BLACK STEEL THREADED	2" AND SMALLER - THREADED CONNECTIONS, LARGER THAN 2" - WELDED CONNECTIONS
COND. DRAIN	ALL	ALL	TYPE M - HARD TEMPER COPPER	SLOPED AT 1/4" PER FOOT

WATER AND WASTE FIXTURE UNIT CALCULATIONS

Project: Humboldt County Probation **Occupancy:** Public

Plan Tag	No:	Cold Water		Hot Water		Waste	
		FU/FIX	FU TOTAL	FU/FIX	FU TOTAL	DFU/FIX	DFU TOTAL
WC-1	6	5.0	30	--	--	4.0	24
L-1	6	1.0	6	0.750	4.5	1.0	6
MS-1	2	3.0	6	2.250	4.5	3.0	6
SK-1	1	1.5	1.5	1.125	1.125	2.0	2
SK-2	1	1.5	1.5	1.125	1.125	2.0	2
DISHWASHER	1	1.5	1.5	1.125	1.125	2.0	2
DF-1	1	0.5	0.5	--	--	0.5	0.5
FD-1	2	--	--	--	--	2.0	4
HB-1	1	2.5	2.5	--	--	--	--
HB-1	3	3.0	9	--	--	--	--
Total Fixture Units		CW FU	58.5	HW FU	12.375	DFU	46.5
		Line Size	2-1/2"	Line Size	1"	San. Size	4"
		GPM	55	GPM	9.2	Max DFU	216.0
		FPS	3.8	FPS	3.7		
		PSI / 100	1.3	PSI / 100	3.4		

PLUMBING FIXTURE SCHEDULE

ID	Make	Model No.	Description	Mounting	Material
WC-1	KOHLER	K-96057-0	ACCESSIBLE HEIGHT FLUSH VALVE WATER CLOSET, HIGHLINE MODEL, ADA COMPLIANT, SLOAN ROYAL 111 - 1.28 MANUAL 1.28 GPF FLUSH VALVE, ELONGATED BOWL, 1-1/2" TOP SPUD, OLSONITE #95 COMFORT CURVE OPEN FRONT SEAT. DIMENSIONS: 28-1/4" LONG x 14-7/8" WIDE x 17-1/8" HIGH MOUNTING: TOP OF SEAT MUST BE 17-19" HIGH	FLOOR	VIT CHINA
L-1	KOHLER	K-2005-0	WALL HUNG LAVATORY WITH OVERFLOW, HOT/COLD WATER HOLES 4" O.C., CHICAGO FAUCETS 420-E2805ABCP W/ ASSE1070 MIXING VALVE SINGLE LEVER DECK MOUNTED FAUCET, 0.5 GPM AERATOR, CHROME PLATE FINISH, J.R. SMITH CONCEALED ARM SUPPORT DIMENSIONS: 20" x 18". PROVIDE WITH TMV-1 HIGH UNDER SINK	WALL	VIT CHINA
SK-1	JUST	SL-ADA-17519-A-GR	STAINLESS STEEL SINGLE BOWL SINK, ACCESSIBLE DEPTH, 17.5" FRONT TO BACK, 19" LEFT-TO-RIGHT, 6.5" DEEP BOWL, CENTER REAR DRAIN LOCATION, CHICAGO W8D-GN2AE35-369AB DECK-MOUNTED MANUAL SINK FAUCET WITH 8" CENTERS, 5-1/4" GOOSENECK SPOUT, 1.5 GPM OUTLET, 2-3/8" LEVER HANDLE, CHICAGO FAUCETS ANGLE STOPS MODEL #1013-ABCP	COUNTER	18 GA SS
SK-2	JUST	ADA-1933-A-GR	DOUBLE BOWL STAINLESS STEEL BREAK ROOM SINK WITH HOT/COLD WATER AT 8" O.C., SELF-RIMMING TOP MOUNT, MOEN SPOT RESISTANT STAINLESS FAUCET 7560SRS SINK FAUCET WITH 1.5 GPM, TWO INTEGRAL CHECK VALVES, 55" PULLOUT SPRAY BRAIDED HOSE, STREAM OR SPRAY OPERATION AND LEVER STYLE HANDLE. CHICAGO FAUCETS ANGLE STOPS MODEL #1013-ABCP; MOUNT TO MEET ADA REQUIREMENTS DIMENSIONS: 19" x 33" x 6-1/2"	COUNTER	18 GA SS
MS-1	FLORESTONE	MSR-2424	MOLDED MOP RECEPTOR, ONE-PIECE DESIGN, INTEGRAL DRAIN, 2" DRAIN SIZE, CHICAGO #897-CP SERVICE SINK FAUCET WITH VACUUM BREAKER, WALL BRACE, HOSE THREAD ON SPOUT, PAIL HOOK. DIMENSIONS: 24" x 24" x 12"	FLOOR	MOLDED PLASTIC
TMV-1	WATTS	LFUSG-B	1/2" THERMOSTATIC MIXING VALVE, 0.5 GPM MINIMUM FLOW, 140°F INLET TEMPERATURE, 110°F OUTLET, INTEGRAL CHECK VALVES, LEAD FREE BRASS BODY; LISTED TO ASSE 1070 AND IAPMO LISTED.	UNDER SINK	--
(E) DF	ELKAY	LZSTL8WSSP	WALL-MOUNT BARRIER FREE DRINKING FOUNTAIN WITH BOTTLE FILLING STATION, LEAD-FREE CONSTRUCTION, UL399 CERTIFIED, 18 GAUGE STAINLESS STEEL, FLEXI-GUARD SAFETY BUBBLERS, VANDAL-RESISTANT PUSH BUTTONS, SENSOR-ACTIVATED BOTTLER FILLER, AUTO 20-SECOND SHUTOFF, LAMINAR FLOW DISCHARGE. ELECTRICAL: 115V	WALL	STAINLESS STEEL
RD-1	ZURN	Z121	12" DIAMETER ROOF DRAIN WITH LOW SILHOUETTE DOME AND TOP-SET DECK PLATE, DURA-COATED CAST IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP / GRAVEL GUARD, NO HUB OUTLET. SEE PLANS FOR OUTLET SIZE.	ROOF	CAST IRON
(E) WH	AO SMITH	DEL-40	40 GALLON ELECTRIC STORAGE TANK WATER HEATER, 8 KW ELEMENT, 54 GPH RECOVERY AT 90°F RISE, ASME 160 PSI GLASS LINED TANK CONSTRUCTION, 140°F TEMPERATURE SETTING. DIMENSIONS: 32" HIGH, 23" DIAMETER, 25.5" TOTAL DEPTH WEIGHT: 118 LBS EMPTY, 460 LBS FULL ELECTRICAL: 208V/3Ø/60	STAND	--
ET-1	AMTROL	ST-12-C	6.4 GALLON STAINLESS STEEL EXPANSION TANK, 200°F MAX TEMP, 175 PSIG MAX WORKING PRESSURE, POLYPROPYLENE LINER. DIMENSIONS: 12" DIAMETER x 13-3/8" HEIGHT	WALL	STEEL
RCP-1	BELL & GOSSETT	E3-6V/BUPYZ	OPEN SYSTEM RECIRCULATION PUMP. 203°F MAX TEMP, 50°F MIN TEMP, 150 PSI MAX SYSTEM PRESSURE, ADJUSTABLE THERMOSTAT, 1/2" LEAD-FREE BRASS UNION CONNECTIONS, E3 TIMER AND HIGH EFFICIENCY ECM MOTOR, 115V, 28 WATT.	--	--
TP-1	PPP	LTP-1500	1-1/2" TAIL PIECE FLOOR DRAIN TRAP PRIMING ASSEMBLY, 1/2" BRAIDED STAINLESS STEEL PRIMING WATER LINE WITH 1/2" COMPRESSION FITTINGS, CHROME-PLATED ESCUTCHEONS FOR BOTH WALL TUBE AND MAKE UP WATER LINE.	WALL	--
WHA-1	ZURN	Z1700	SHOCKTROL WATER HAMMER ARRESTOR, INSTALL WITH GATE VALVE SHUTOFF.	--	--

PLUMBING FIXTURE CONNECTION SCHEDULE

ID	Description	Accessible	Connection Size (Inches)			
			Waste	Vent	CW	HW
WC-1	WATER CLOSET	YES	4"	2"	1-1/2"	--
L-1	LAVATORY	YES	2"	1-1/2"	1/2"	1/2"
SK-1	SINK	YES	2"	1-1/2"	1/2"	1/2"
SK-2	SINK	YES	2"	1-1/2"	1/2"	1/2"
MS-1	MOP SINK	YES	2"	1-1/2"	1/2"	1/2"
(E) DF	DRINKING FOUNTAIN	YES	2"	1-1/2"	1/2"	--
RD-1	ROOF DRAIN	NO	3"	--	--	--

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REVISIONS

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REGISTERED PROFESSIONAL ENGINEER
JOSEPH M. MARTIN
No. M35923
EXP. 3-31-2024
MECHANICAL
STATE OF CALIFORNIA

KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE
EUREKA, CA 95501

SHEET TITLE

PLUMBING LEGEND AND SCHEDULES

DRAWING STATUS
CONSTRUCTION DOCUMENTS

Drawn By	JM
Date Issued	06.01.2023
Scale	1/8" = 1'-0"
Project No.	22-6507

SHEET No.

P100

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Plot Date: 6/6/2023 9:25:02 AM
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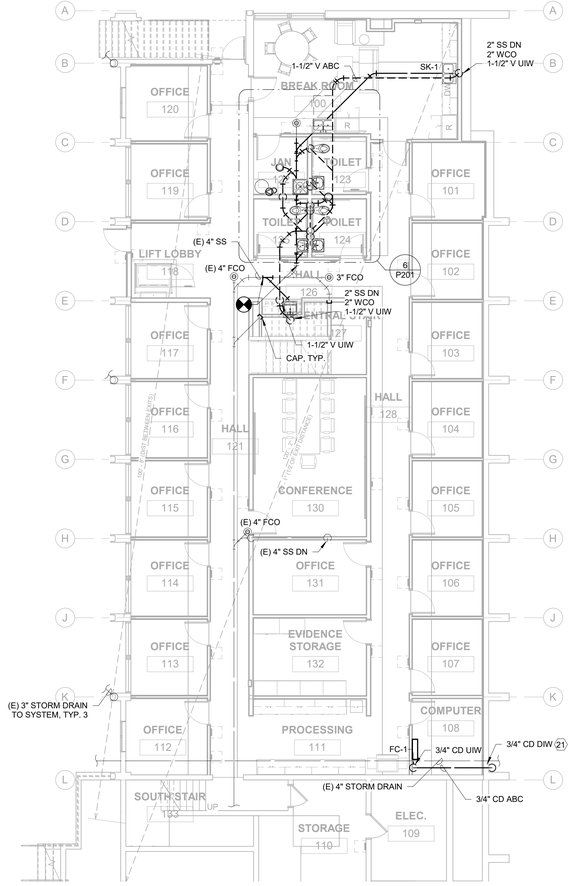
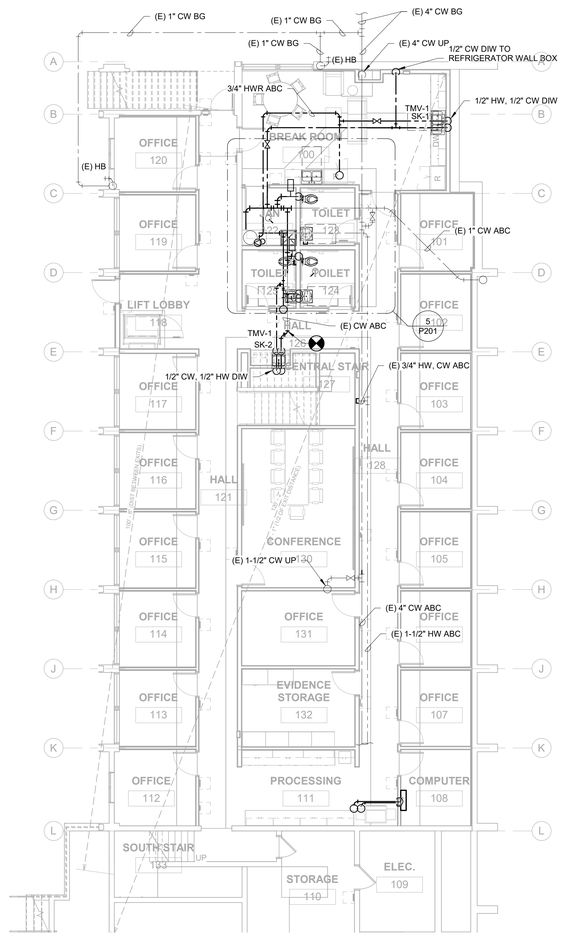
KEYED NOTES:

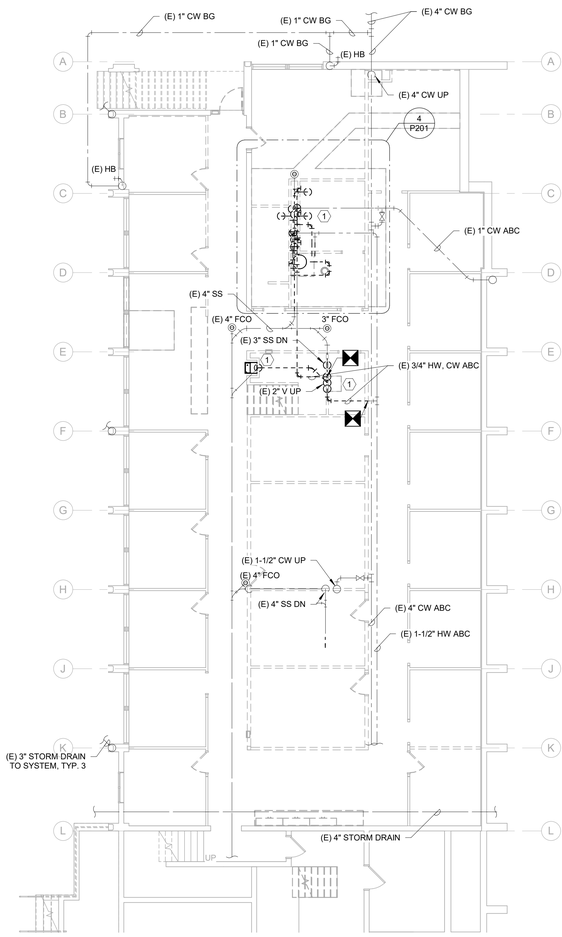
(21) ROUTE 3/4" CONDENSATE DRAIN FROM WALL MOUNT FAN COIL TO LANDSCAPING. IF ROUTING OF CONDENSATE TO LANDSCAPING IS NOT FEASIBLE, ROUTE CONDENSATE TO DRYWELL AT BUILDING EXTERIOR. CONDENSATE SHALL NOT DISCHARGE ON CONCRETE OR ON WALKWAYS.



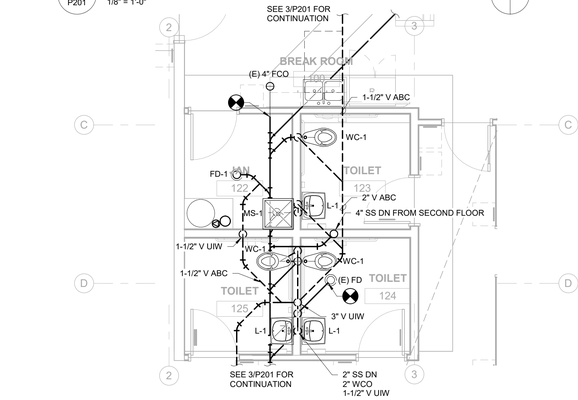
3 P201 PLUMBING FIRST FLOOR PLAN - DWV
1/8" = 1'-0"



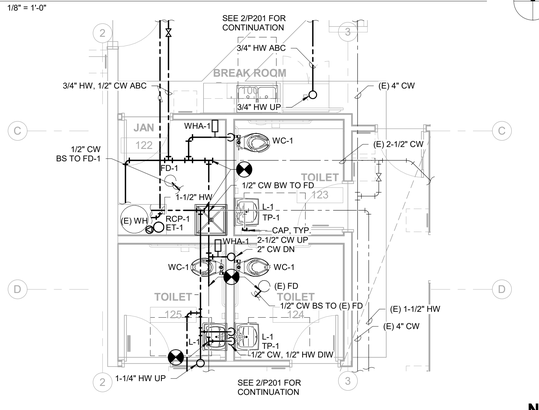
2 P201 PLUMBING FIRST FLOOR PLAN - WATER & GAS
1/8" = 1'-0"



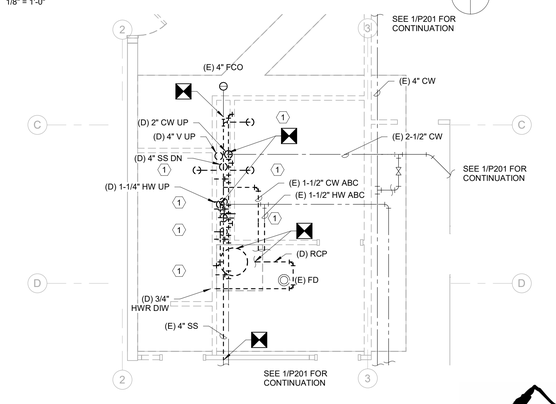
1 P201 PLUMBING FIRST FLOOR DEMOLITION PLAN
1/8" = 1'-0"



6 P201 ENLARGED PLUMBING FIRST FLOOR PLAN - DWV
1/4" = 1'-0"



5 P201 ENLARGED PLUMBING FIRST FLOOR PLAN - WATER
1/4" = 1'-0"



4 P201 ENLARGED PLUMBING FIRST FLOOR DEMOLITION PLAN
1/4" = 1'-0"

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MECHANICAL
STATE OF CALIFORNIA

KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE
EUREKA, CA 95501

SHEET TITLE

PLUMBING FIRST FLOOR PLANS

DRAWING STATUS
CONSTRUCTION DOCUMENTS

Drawn By	JM
Date Issued	06.01.2023
Scale	As indicated
Project No.	22-6507

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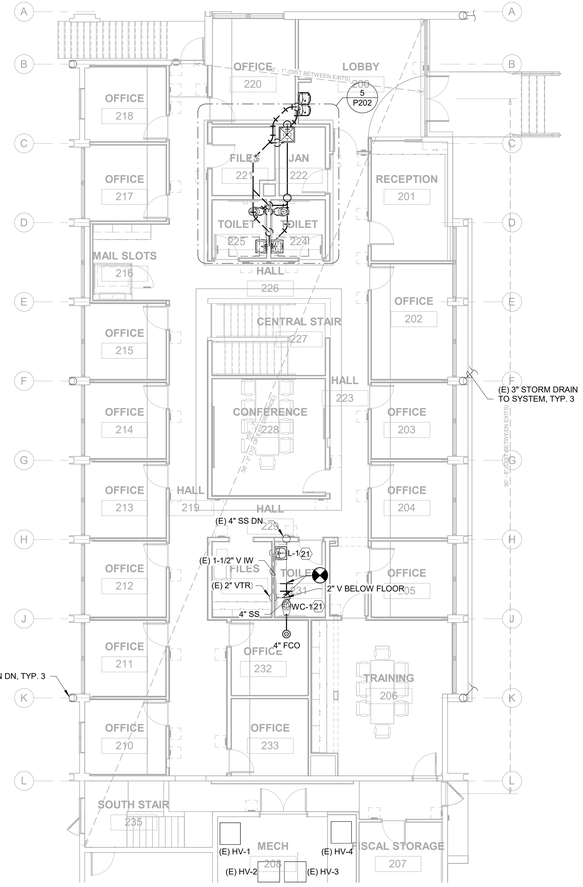
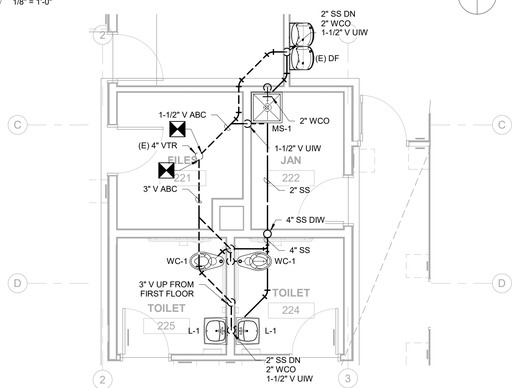
KEYED NOTES:

(21) CONNECT NEW FIXTURE WASTE AND VENT TO EXISTING WASTE AND VENT CONNECTIONS IN WALL OR FLOOR. CONTRACTOR TO PROVIDE FITTINGS, VALVES AND ALL RELATED APPURTENANCES REQUIRED TO SUCCESSFULLY CONNECT NEW FIXTURES TO EXISTING PLUMBING SERVICES (SANITARY, VENT, ETC.).



3 P202 PLUMBING SECOND FLOOR PLAN - DWV

1/8" = 1'-0"

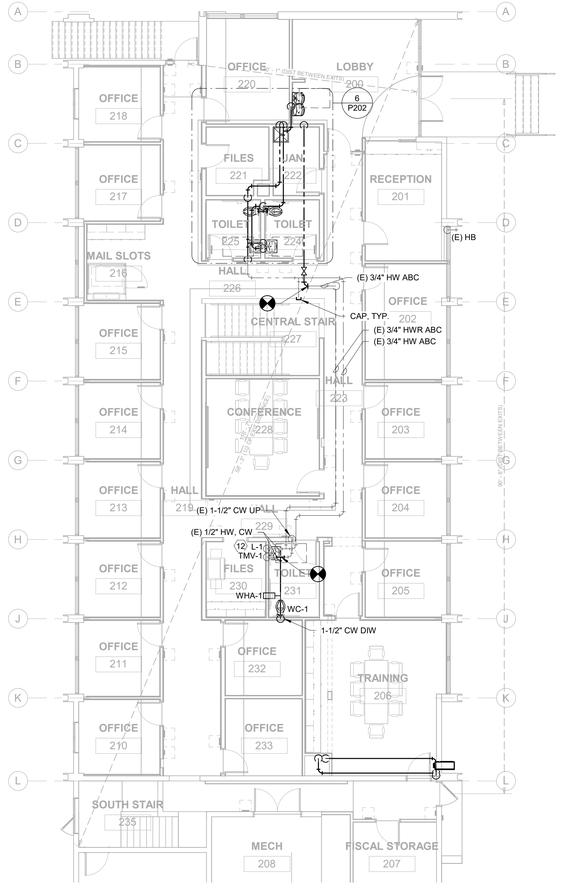


5 P202 ENLARGED PLUMBING SECOND FLOOR PLAN - DWV

1/4" = 1'-0"

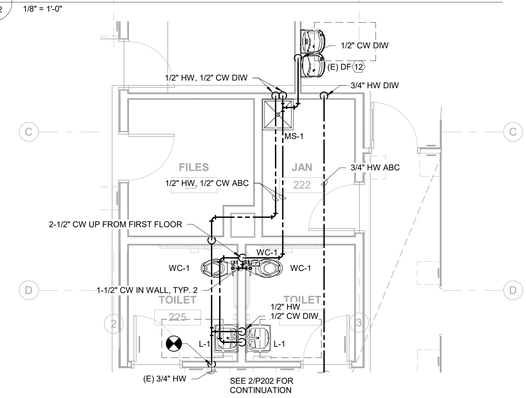
KEYED NOTES:

(12) CONNECT NEW FIXTURE WATER TO EXISTING WATER CONNECTIONS IN WALL. CONTRACTOR TO PROVIDE FITTINGS, VALVES, AND ALL RELATED APPURTENANCES REQUIRED TO SUCCESSFULLY CONNECT NEW FIXTURES TO EXISTING PLUMBING SERVICES.



2 P202 PLUMBING SECOND FLOOR PLAN - WATER & GAS

1/8" = 1'-0"



6 P202 ENLARGED PLUMBING SECOND FLOOR PLAN - WATER & GAS

1/4" = 1'-0"

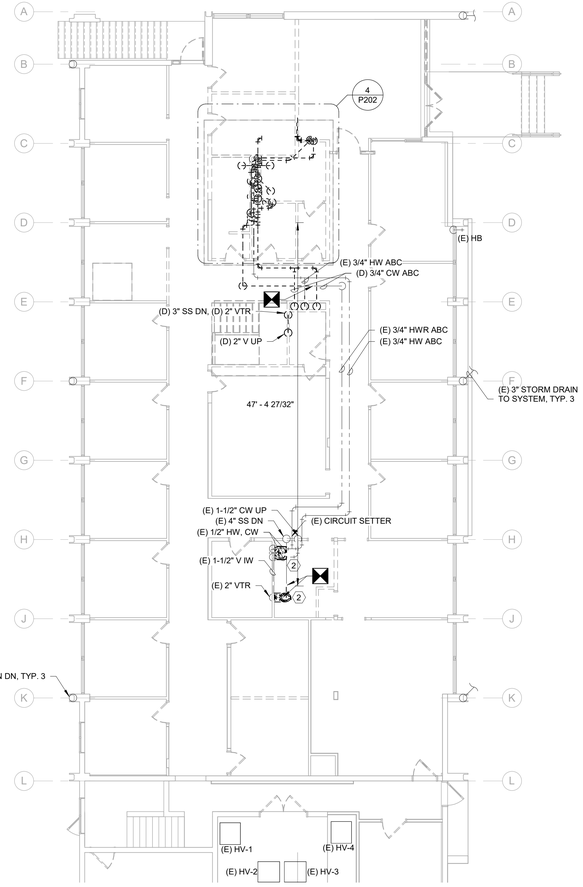
GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY EXACT SIZE, LOCATION, AND CAPACITY OF (E) PIPES PRIOR TO COMMENCEMENT OF WORK. IF DISCREPANCIES OCCUR, CONTRACTOR SHALL NOTIFY ARCHITECT AND ENGINEER.
2. IF PIPE/FIXTURE IS NOT SHOWN, CONTRACTOR SHALL NOTE ON PLANS OMITTED PIPE/FIXTURE. CONTRACTOR SHALL VERIFY SIZE AND ROUTING OF PIPE AND NOTE ON PLAN THE SYSTEM PIPE IS CONNECTED TO.

KEYED NOTES:

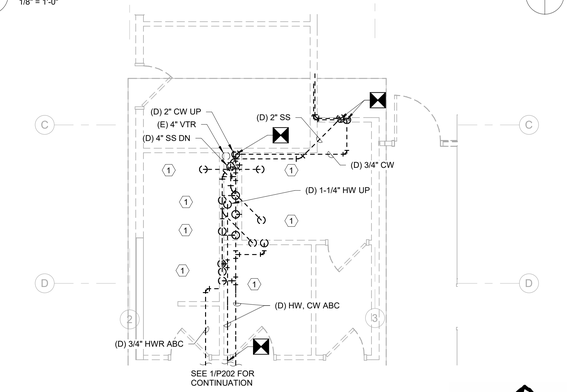
(1) COMPLETELY REMOVE FIXTURE AND ALL ASSOCIATED PIPING AND ACCESSORIES. MODIFY PIPING AS REQUIRED TO MAINTAIN SERVICE TO ADJACENT FIXTURES BEING REPLACED.

(2) REMOVE PLUMBING FIXTURE. CAP PIPING IN WALL AND PREPARE FOR INSTALLATION OF NEW FIXTURE IF APPLICABLE.



1 P202 PLUMBING SECOND FLOOR DEMOLITION PLAN

1/8" = 1'-0"



4 P202 ENLARGED PLUMBING SECOND FLOOR DEMOLITION PLAN

1/4" = 1'-0"

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PLUMBING SECOND FLOOR PLANS

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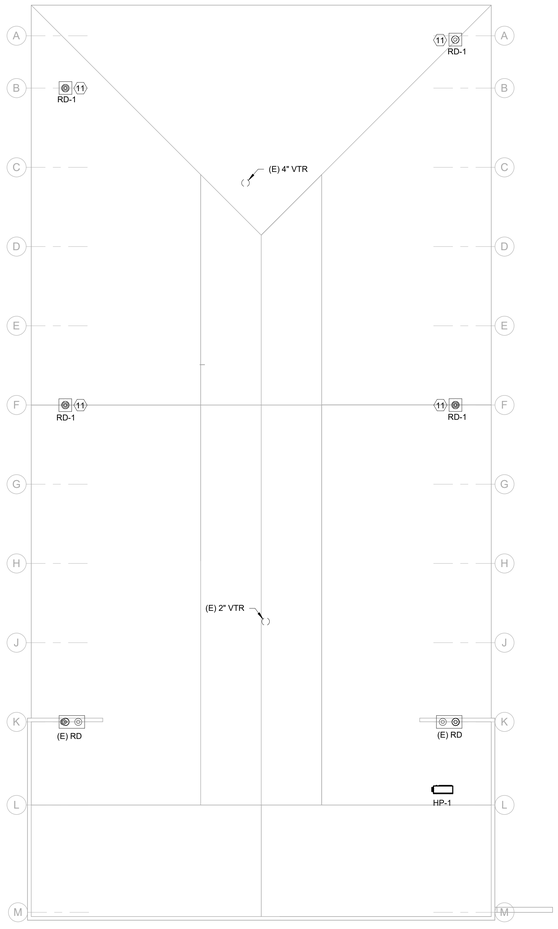
KEYED NOTES:

11 CONNECT NEW FIXTURE PRIMARY DRAIN TO EXISTING PRIMARY DRAIN CONNECTION IN ROOF. CONTRACTOR TO PROVIDE FITTINGS, VALVES, AND ALL RELATED APPURTENANCES REQUIRED TO SUCCESSFULLY CONNECT NEW FIXTURES TO EXISTING PLUMBING SERVICES.



2 P240 PLUMBING ROOF PLAN
1/8" = 1'-0"

N

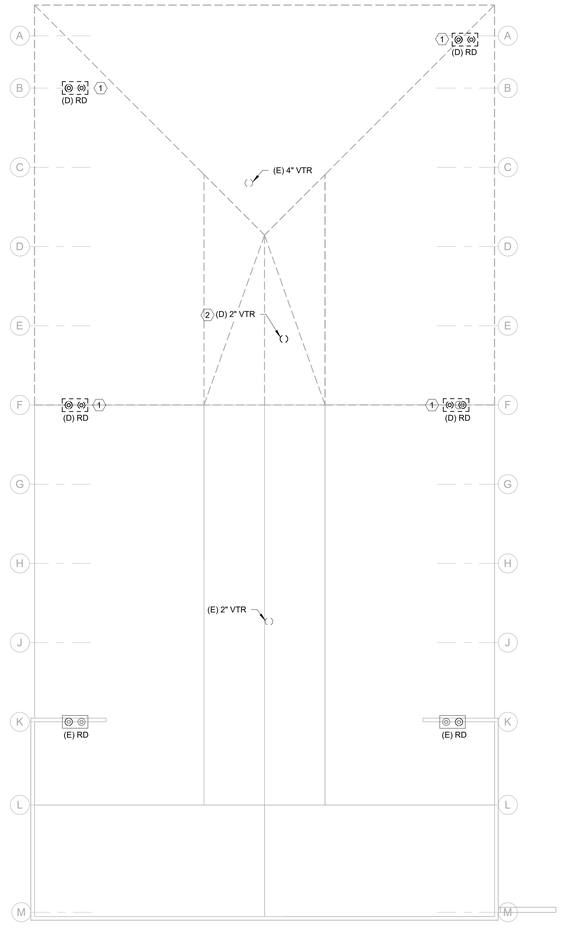
GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY EXACT SIZE, LOCATION, AND CAPACITY OF (E) PIPES PRIOR TO COMMENCEMENT OF WORK. IF DISCREPENCIES OCCUR, CONTRACTOR SHALL NOTIFY ARCHITECT AND ENGINEER.
2. IF PIPE/FIXTURE IS NOT SHOWN, CONTRACTOR SHALL NOTE ON PLANS OMITTED PIPE/FIXTURE. CONTRACTOR SHALL NOTE ON PLANS OMITTED PIPE/FIXTURE. CONTRACTOR SHALL VERIFY SIZE AND ROUTING OF PIPE AND NOTE ON PLAN THE SYSTEM PIPE IS CONNECTED TO.

KEYED NOTES:

1 REMOVE PLUMBING FIXTURE AND PREPARE FOR INSTALLATION OF NEW FIXTURE.

2 REMOVE PLUMBING VENT AND PATCH ROOF. REFER TO ARCHITECTURAL FOR ROOFING.



1 P240 PLUMBING ROOF DEMOLITION PLAN
1/8" = 1'-0"

N

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LICENSE STAMPS

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KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE
EUREKA, CA 95501

SHEET TITLE

PLUMBING ROOF PLANS

DRAWING STATUS
CONSTRUCTION DOCUMENTS

Drawn By	JM
Date Issued	06.01.2023
Scale	1/8" = 1'-0"
Project No.	22-6507

SHEET No.

P240

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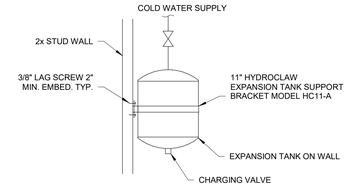
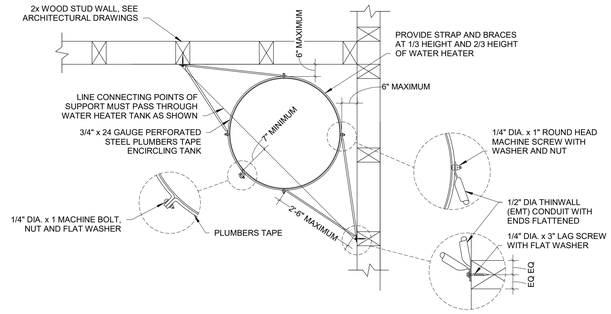


3 P300 EXPANSION TANK DETAIL

1/8" = 1'-0"

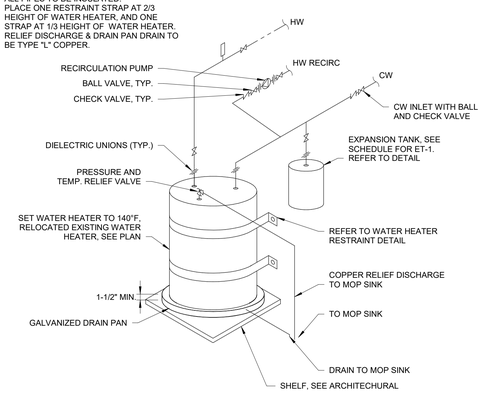


2 P300 WATER HEATER RESTRAINT DETAIL

1/8" = 1'-0"

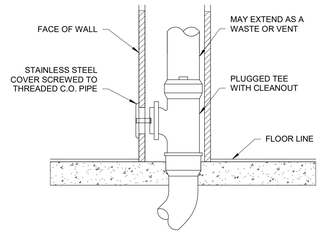
NOTES:

1. ALL PIPES TO BE INSULATED.
2. PLACE ONE RESTRAINT STRAP AT 2/3 HEIGHT OF WATER HEATER, AND ONE STRAP AT 1/3 HEIGHT OF WATER HEATER.
3. RELIEF DISCHARGE & DRAIN PAN DRAIN TO BE TYPE "L" COPPER.



1 P300 ELECTRIC WATER HEATER DETAIL

1/8" = 1'-0"

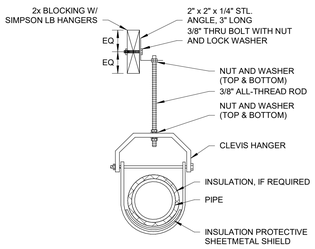


NOTES:

1. POSITION PIPE TO AVOID OBSTRUCTIONS TO CLEAN-OUTS.
2. PROVIDE C.O. AT ALL VERTICAL SANITARY/VENT STACKS.

6 P300 WALL CLEAN-OUT DETAIL

1/8" = 1'-0"



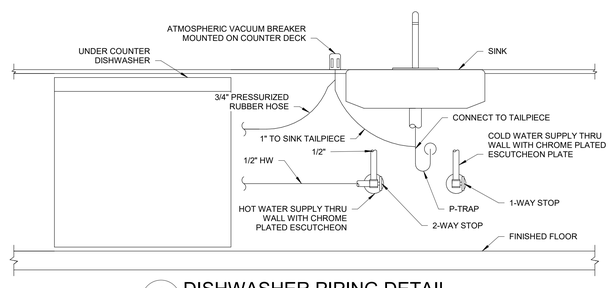
NOTE:
SUSPENDED PIPING SHALL BE SUPPORTED AT INTERALS NOT TO EXCEED THOSE SHOWN IN TABLE 313.3 (CPC SECTION 313).

HANGERS AND SUPPORTS

MATERIAL	HORIZONTAL	VERTICAL
CAST IRON HUBLESS	EVERY OTHER JOINT, UNLESS OVER 4 FEET THEN SUPPORT EACH JOINT	BASE AND EACH FLOOR, NOT TO EXCEED 15 FEET
COPPER & COPPER ALLOYS	1-1/2 INCHES AND SMALLER, 6 FEET; 2 INCHES AND LARGER, 10 FEET	EACH FLOOR, NOT TO EXCEED 10 FEET
STEEL PIPE FOR GAS	1/2 INCH, 6 FEET; 3/4 INCH AND 1 INCH, 8 FEET; 1-1/4 INCHES AND LARGER, 10 FEET	1/2 INCH, 6 FEET; 3/4 INCH AND 1 INCH, 8 FEET; 1-1/4 INCHES EVERY FLOOR LEVEL
SCHEDULE 40 PVC AND ABS DWV	ALL SIZES, 4 FEET; ALLOW FOR EXPANSION EVERY 30 FEET	BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES; PROVIDE FOR EXPANSION EVERY 30 FEET

5 P300 PIPE HANGING DETAIL

1/8" = 1'-0"

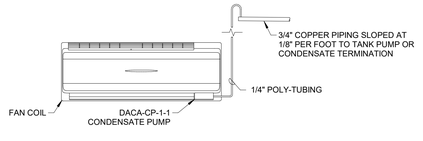


4 P300 DISHWASHER PIPING DETAIL

NOT TO SCALE

NOTE:

1. INSTALL ALL CONDENSATE PUMPS, DRAIN PIPING, AND PIPE CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE CONDENSATE PUMPS ONLY WHERE INDICATED.



7 P300 CONDENSATE LIFT PUMP PIPING DETAIL

NOT TO SCALE

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ELECTRICAL LEGEND

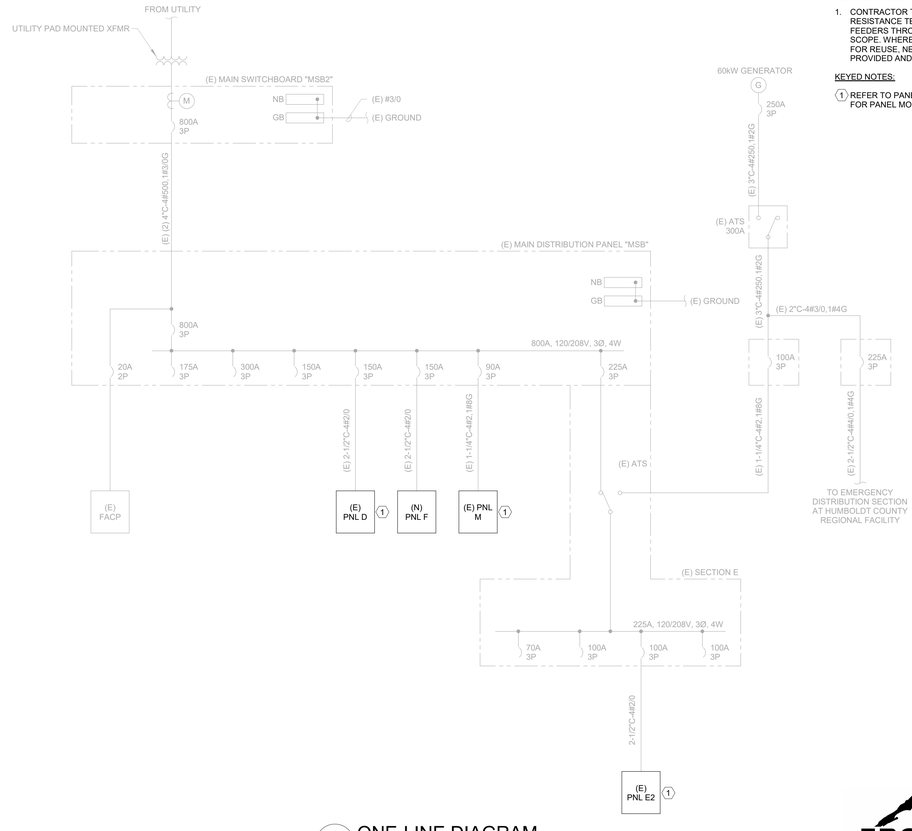
SYMBOLS	
	CONDUIT EXPOSED
	CONDUIT CONCEALED OR BURIED
	CROSS HATCHES W/ BARS INDICATES NUMBER OF #10 CONDUCTORS
S_{4}	1/2" C - 2# 12.1 #12G / CAT 5e LIGHTING CABLE
LA-2	HOME RUN-DESTINATION SHOWN
	CONDUIT DOWN
	CONDUIT UP
	CONNECTION POINT
	TELEPHONE CONNECTION POINT; 18" TO COD AFF UNLESS OTHERWISE NOTED. 3/4" C - STUB UP TO CEILING PLENUM
	DATA CONNECTION POINT; 18" TO COD AFF UNLESS OTHERWISE NOTED. 3/4" C - STUB UP TO CEILING PLENUM
	TELE/DATA CONNECTION POINT; 18" TO COD AFF UNLESS OTHERWISE NOTED. 3/4" C - STUB UP TO CEILING PLENUM
$	WALL SWITCH, 46" TO COD AFF UNLESS OTHERWISE NOTED
$3	INDICATES THREE-POLE WALL SWITCH
$D	INDICATES WALL SWITCH WITH INTEGRAL DIMMER
$OC	INDICATES WALL SWITCH WITH INTEGRAL OCCUPANCY SENSOR
$a $b $c $d	INDICATES WALL SWITCHES FOR MULTIPLE LIGHTING GROUPS
$LV	INDICATES LOW VOLTAGE WALL SWITCH
$K	INDICATES KEY-OPERATED WALL SWITCH
$M	INDICATES MOTOR RATED SWITCH
$T	INDICATES WALL SWITCH WITH INTEGRAL TIMER
$M	MOTOR RATED SWITCH
OC	OCCUPANCY SENSOR
J	JUNCTION BOX
CR	CONTACT RELAY
EL1	ELECTRIC DOOR LATCH/STRIKE (VERIFY LOCATION WITH ARCH)
CR	CARD READER
PB	PUSH BUTTON
	20A SPECIFICATION GRADE RECEPTACLE, COORDINATE CONFIGURATION W/ SUPPLIED EQUIPMENT / 20A SPECIFICATION GRADE GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE
	20A SPECIFICATION GRADE QUADRUPLEX RECEPTACLE / 20A SPECIFICATION GRADE GROUND FAULT CIRCUIT INTERRUPTER QUADRUPLEX RECEPTACLE
	208/240V RECEPTACLE 18" COD UNLESS OTHERWISE NOTED ON PLANS
	SPLITWIRED RECEPTACLES
60/40 F	XXA/XXF XX
30	XX XX
	XXAS XXAF
	FUSED SWITCH
	LAY-IN 2 FT x 2 FT.
	SURFACE MOUNTED 2 FT x 4 FT FLUORESCENT LIGHT FIXTURE.
	SURFACE MOUNTED 1 FT x 4 FT FLUORESCENT LIGHT FIXTURE.
	HATCHING INDICATES EMERGENCY LIGHTING.
	RECESSED LIGHT FIXTURE.
	PENDANT MOUNTED LIGHT FIXTURE
	SINGLE FACE ILLUMINATED EXIT SIGN
	DOUBLE FACED ILLUMINATED DIRECTIONAL EXIT SIGN.
	SINGLE FACED ILLUMINATED DIRECTIONAL EXIT SIGN.
	LED STANDARD EMERGENCY LIGHT

ELECTRICAL ABBREVIATIONS

A	-AMMETER, AMPERE
AC	-ALTERNATING CURRENT
ACH	-ABOVE COUNTER HEIGHT
AFCI	-ARC FAULT CIRCUIT INTERRUPT
AFF	-ABOVE FINISHED FLOOR
AIC	-AMPS INTERRUPTING CAPACITY
ATS	-AUTOMATIC TRANSFER SWITCH
BRKR	-BREAKER
BOE	-BOTTOM OF EQUIPMENT
CEC	-CALIFORNIA ELECTRICAL CODE
C/COND	-CONDUIT
CKT	-CIRCUIT
COD	-CENTER OF DEVICE
CT	-CURRENT TRANSFORMER
DC	-DIRECT CURRENT
(E)	-EXISTING
FSS	-FUSED SERVICE SWITCH
G	-GROUND
GFCI	-GROUND FAULT CIRCUIT INTERRUPT
J	-JUNCTION BOX
LCP	-LIGHTING CONTROL PANEL
LTR	-LIGHTING
MFR	-MANUFACTURER
MSB	-MAIN SWITCH BOARD
MTS	-MANUAL TRANSFER SWITCH
NEC	-NATIONAL ELECTRIC CODE
NEMA	-NATIONAL ELECTRIC MANUFACTURER'S ASSOCIATION
NFSS	-NON-FUSED SERVICE SWITCH
N	-NEUTRAL
PB	-PULLBOX
PC	-PHOTOCELL
PNL	-PANELBOARD
RECEPT	-RECEPTACLE
SWBD	-SWITCHBOARD
T	-THERMOSTAT OR TELE CONDUIT
TOD	-TOP OF DEVICE
TYP	-TYPICAL
V	-VOLTMETER, VOLT
W	-WATT
WP	-WEATHERPROOF (NEMA 3R)
XFMR	-TRANSFORMER
*	-FINAL FUSE SIZE ACCORDING TO MANUFACTURER

LUMINAIRE SCHEDULE

ID	Manufacturer	Model	Lamps	Lumens	Color Temperature	Apparent Load	Description
1	LITHONIA	EPANL	LED	3000 lm	3500 K	29.0 VA	INTERIOR RECESSED 2' X 4' EDGE-LIT FLAT PANEL, GRID CEILING, 0-10V DIMMING DOWN TO 1%, 120V AC. PROVIDE WITH EMERGENCY BATTERY PACK WHERE INDICATED.
2	LITHONIA	EPANL	LED	4000 lm	3500 K	37.6 VA	INTERIOR RECESSED 2' X 4' EDGE-LIT FLAT PANEL, GRID CEILING, 0-10V DIMMING DOWN TO 1%, 120V AC. PROVIDE WITH EMERGENCY BATTERY PACK WHERE INDICATED.
3	LITHONIA	EPANL	LED	4800 lm	3500 K	45.0 VA	INTERIOR RECESSED 2' X 4' EDGE-LIT FLAT PANEL, GRID CEILING, 0-10V DIMMING DOWN TO 1%, 120V AC. PROVIDE WITH EMERGENCY BATTERY PACK WHERE INDICATED.
5	GOTHAM	EVO4	LED	3000 lm	3500 K	31.2 VA	INTERIOR RECESSED 4"Ø DOWNLIGHT, CLEAR REFLECTOR, SELF-FLANGED, MEDIUM-WIDE DISTRIBUTION, SEMI-SPECULAR FINISH, 0-10V DIMMING DOWN TO 1%, 120V AC. PROVIDE WITH EMERGENCY BATTERY PACK WHERE INDICATED.
6	LITHONIA	EVO6	LED	1500 lm	3500 K	19.7 VA	INTERIOR RECESSED 6"Ø DOWNLIGHT, CLEAR REFLECTOR, SELF-FLANGED, MEDIUM-WIDE DISTRIBUTION, SEMI-SPECULAR FINISH, 0-10V DIMMING DOWN TO 1%, 120V AC. PROVIDE WITH EMERGENCY BATTERY PACK WHERE INDICATED.
7	LITHONIA	EVO6W	LED	1500 lm	3500 K	19.7 VA	INTERIOR RECESSED 6"Ø WALL WASH DOWNLIGHT, CLEAR REFLECTOR, SELF-FLANGED, MEDIUM-WIDE DISTRIBUTION, SEMI-SPECULAR FINISH, 0-10V DIMMING DOWN TO 1%, 120V AC.
8	USAILIGHTING	B3SDM-UA	LED	1200 lm	3500 K	18.2 VA	INTERIOR 3" SQUARE DOWNLIGHT, 65° BEAM, BLACK BEVEL TRIM/FLANGE FINISH, 120V AC, 0-10V DIMMING TO 1%. PROVIDE WITH EMERGENCY BATTERY BACKUP WHERE INDICATED.
9	LITHONIA	BLWP4	LED	3000 lm	3500 K	25.0 VA	INTERIOR SURFACE MOUNTED WRAPAROUND, 4' NOMINAL, CURVED SMOOTH LENS, 0-10V DIMMING DOWN TO 1%, 120V AC. PROVIDE WITH EMERGENCY BATTERY PACK WHERE INDICATED.
10	PEERLESS	SQM4	LED	4850 lm	3500 K	122.4 VA	INDIRECT/DIRECT LINEAR PENDANT MOUNT FIXTURE, 900/400 LUMENS PER FOOT, LINEAR LONGEST POSSIBLE, 8FT RUN LENGTH, MAX 8' SECTION, 24" ADJUSTABLE SUSPENSION, COORDINATE MOUNTING HEIGHT WITH OWNER/ARCHITECT, 120V AC, 0-10V DIMMING DOWN TO 1%.
11	PEERLESS	SQM4	LED	4850 lm	3500 K	183.6 VA	INDIRECT/DIRECT LINEAR PENDANT MOUNT FIXTURE, 900/400 LUMENS PER FOOT, LINEAR LONGEST POSSIBLE, 12FT RUN LENGTH, MAX 8' SECTIONS, 24" ADJUSTABLE SUSPENSION, COORDINATE MOUNTING HEIGHT WITH OWNER/ARCHITECT, 120V AC, 0-10V DIMMING DOWN TO 1%.
12	LEDALUX	LEDUC-E	LED	900 lm	4000 K	9.7 VA	INTERIOR LED UNDERCABINET LIGHT, 24" LENGTH, 120V AC.
13	LITHONIA	EVO6	LED	500 lm	4000 K	6.2 VA	EXTERIOR RECESSED 6"Ø DOWNLIGHT, CLEAR REFLECTOR, SELF-FLANGED, MEDIUM-WIDE DISTRIBUTION, SEMI-SPECULAR FINISH, 0-10V DIMMING DOWN TO 1%, 120V AC. PROVIDE WITH EMERGENCY BATTERY PACK WHERE INDICATED.
	LITHONIA	LQM	LED	<varies>	<varies>	5.0 VA	INTERIOR EXIT SIGN, WHITE HOUSING, GREEN LETTERS, NICKEL CADMIUM BATTERY BACKUP, 120V AC. PROVIDE GREEN ARROWS WHERE INDICATED ON PLANS



1 E100 ONE-LINE DIAGRAM
NOT TO SCALE

GENERAL NOTES:

1. CONTRACTOR TO PERFORM INSULATION RESISTANCE TEST FOR ALL PANEL FEEDERS THROUGHOUT THE PROJECT SCOPE. WHERE FEEDERS ARE NOT FIT FOR REUSE, NEW FEEDERS SHALL BE PROVIDED AND INSTALLED.

KEYED NOTES:

1 REFER TO PANEL SCHEDULE ON E101 FOR PANEL MODIFICATIONS.

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REVISIONS

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EXP. 9-30-2024
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STATE OF CALIFORNIA

KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE EUREKA, CA 95501

SHEET TITLE

ELECTRICAL LEGEND AND SCHEDULE

DRAWING STATUS
CONSTRUCTION DOCUMENTS

Drawn By	TA
Date Issued	06.01.2023
Scale	1/8" = 1'-0"
Project No.	22-6507

SHEET No.

E100

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(E) BRANCH PANEL D (1)

LOCATION: ELEC. 109 **VOLTS:** 120/208 Wye **A.I.C. RATING:** EXISTING

MOUNTING: SURFACE **WIRES:** 4 **BUS RATING:** 225 A

CIRCUITS: 30 **MAIN:** MLO

CKT	Circuit Description	Rating	Poles	A	B	C	A	B	C	Poles	Rating	Circuit Description	CKT
1				0			1460			1	20 A	**(N) RECEPTS - CONF. 206** (2)	2
3	(E) SPARE	40 A	3		0			1440		1	20 A	**(N) RECEPTS - OFFICE 210, 211** (2)	4
5						0			1440	1	20 A	**(N) RECEPTS - OFFICE 212,213** (2)	6
7	(2) (N) LIGHTING - OFFICE 210-215, 217, 218	20 A	1	464			1440			1	20 A	**(N) RECEPTS - OFFICE 214, 215** (2)	8
9	(2) (N) LIGHTING - EXTERIOR	20 A	1		25			1440		1	20 A	**(N) RECEPTS - OFFICE 217,218** (2)	10
11	(E) SPARE	20 A	1			0			540	1	20 A	**(N) RECEPTS - FILES 221** (2)	12
13	(E) SPARE	20 A	1	0			540			1	20 A	**(N) RECEPTS - JAN. 222, RR 224,225** (2)	14
15	(E) SPARE	20 A	1		0			540		1	20 A	**(N) RECEPTS - FILE 230, RR 231** (2)	16
17	(E) SPARE	20 A	1			0			1800	1	20 A	**(N) ELEVATOR LIFT** (2)	18
19	(E) SPARE	20 A	1	0			180			1	20 A	**(N) COPIER - FILES 230** (2)	20
21	(E) SPARE	20 A	1		0			900		1	20 A	(E) LOAD	22
23	(E) SPARE	20 A	1			0			--	1	--	(E) SPACE	24
25	(E) SPACE	--	1	--			--			1	--	(E) SPACE	26
27	(E) SPARE	20 A	1		0			--		1	--	(E) SPACE	28
29	(E) SPACE	--	1			--			--	1	--	(E) SPACE	30
	TOTAL LOAD (VOLT-AMPS):			PHASE A		PHASE B			PHASE C				
				4084 VA		4345 VA			3780 VA				
	TOTAL LOAD (AMPS)			34 A		37 A			32 A				

(E) BRANCH PANEL M (1)

LOCATION: ELEC. 109 **VOLTS:** 120/208 Wye **A.I.C. RATING:** EXISTING

MOUNTING: SURFACE **WIRES:** 4 **BUS RATING:** 250 A

CIRCUITS: 42 **MAIN:** MLO

CKT	Circuit Description	Rating	Poles	A	B	C	A	B	C	Poles	Rating	Circuit Description	CKT
1				442			2667						2
3	(E) HV-1	15 A	3		442			2667		3	30 A	(E) ELECTRIC WATER HEATER (2)	4
5						422			2667				6
7				442			200			1	20 A	(E) CIRC. PUMP CP-1	8
9	(E) HV-2	15 A	3		442			200		1	20 A	(E) RECEPTS - LEVEL 1	10
11						442			400	1	20 A	(E) LIGHTING - LEVEL 1	12
13				442			1000			1	20 A	(E) LIGHTING - LEVEL 2	14
15	(E) HV-3	15 A	3		442			400		1	20 A	(E) DUCT SMOKE DETECTORS	16
17						442			0	1	20 A	(E) SPARE	18
19				442			0			1	20 A	(E) SPARE	20
21	(E) HV-4	15 A	3		442			0		1	20 A	(E) SPARE	22
23						442			0	1	20 A	(E) SPARE	24
25	(E) RECEPTS - LEVEL 2	20 A	1	1100			0			1	20 A	(E) SPARE	26
27	(E) SPARE	20 A	1		0			0		1	20 A	(E) SPARE	28
29	(E) SPACE	--	1			--			**1331**	**2**	**25 A**	**(N) EF-1**	30
31	(E) SPACE	--	1	--			**1331**						32
33	(E) SPACE	--	1		--			--		1	--	(E) SPACE	34
35	(E) SPACE	--	1			--			--	1	--	(E) SPACE	36
37	(E) SPACE	--	1	--			--			1	--	(E) SPACE	38
39	(E) SPACE	--	1		--			--		1	--	(E) SPACE	40
41	(E) SPACE	--	1			--			--	1	--	(E) SPACE	42
	TOTAL LOAD (VOLT-AMPS):			PHASE A		PHASE B			PHASE C				
				8066 VA		5035 VA			6146 VA				
	TOTAL LOAD (AMPS)			69 A		42 A			53 A				

(N) BRANCH PANEL F

LOCATION: HALL 121 **VOLTS:** 120/208 Wye **A.I.C. RATING:** 22 KAIC

MOUNTING: SURFACE **WIRES:** 4 **BUS RATING:** 225 A

CIRCUITS: 42 **MAIN:** MLO

CKT	Circuit Description	Rating	Poles	A	B	C	A	B	C	Poles	Rating	Circuit Description	CKT
1	**(N) RECEPTS - OFFICE 101,102**	20 A	1	1440			900			1	20 A	**(N) RECEPTS - BR 100**	2
3	**(N) LIGHTING - OFFICE 112-120**	20 A	1		464			180		1	20 A	**(N) RECEPTS - COPIER**	4
5	**(N) LIGHTING - STORAGE 110, ELECTRIC 109**	20 A	1			134			540	1	20 A	**(N) RECEPTS - CORRIDOR 121**	6
7	**(N) RECEPTS - RR 123- RR 125**	20 A	1	540			591			1	20 A	**(N) LIGHTING - HALLWAYS, PROCESS. 111**	8
9	**(N) RECECPTS - CONFERENCE 129**	20 A	1		900				360	1	20 A	**(N) RECEPTS - JAN. 122**	10
11	**(N) RECEPTS - EVIDENCE STOR. 132**	20 A	1			540			464	1	20 A	**(N) LIGHTING - OFFICE 101-108**	12
13	**(N) RECEPTS - OFFICE 114, 115**	20 A	1	1440			900			1	20 A	**(N) RECEPTS - OFFICE 131**	14
15	**(N) RECEPTS - OFFICE 119, 120**	20 A	1		1440			1440		1	20 A	**(N) RECEPTS - OFFICE 112, 113**	16
17	**(N) RECEPTS - CORR. 126, ELEV LOBBY 118**	20 A	1			730			1440	1	20 A	**(N) RECEPTS - OFFICE 116, 117**	18
19	**(N) LIGHTING - OFFICE 129-131, EVID.132**	20 A	1	450			720			1	20 A	**(N) RECEPTS - PROCESSING 111**	20
21	**(N) RECEPTS - BR APPLIANCE**	20 A	1		360			540		1	20 A	**(N) RECEPTS - CORRIDOR 128**	22
23	**(N) DISHWASHER - BREAKROOM 119**	20 A	1			1560			355	1	20 A	**(N) LIGHTING - BR 100, JAN. 122, RR 123, 125**	24
25	**(N) RECEPTS - OFFICE 103**	20 A	1	720			720			1	20 A	**(N) RECEPTS - OFFICE 104**	26
27	**(N) RECEPTS - OFFICE 105**	20 A	1		720			720		1	20 A	**(N) RECEPTS - OFFICE 106**	28
29	**(N) RECEPTS - OFFICE 107**	20 A	1			720			0	1	20 A	**(N) SPARE**	30
31	**(N) SPARE**	20 A	1	0			0			1	20 A	**(N) SPARE**	32
33	**(N) SPARE**	20 A	1		0			--		1	--	**(N) SPACE**	34
35	**(N) SPACE**	--	1			--			--	1	--	**(N) SPACE**	36
37	**(N) SPACE**	--	1	--			--			1	--	**(N) SPACE**	38
39	**(N) SPACE**	--	1		--			--		1	--	**(N) SPACE**	40
41	**(N) SPACE**	--	1			--			--	1	--	**(N) SPACE**	42
	TOTAL LOAD (VOLT-AMPS):			PHASE A		PHASE B			PHASE C				
				8420 VA		7124 VA			6483 VA				
	TOTAL LOAD (AMPS)			71 A		60 A			54 A				

(E) BRANCH PANEL E2 (1)

LOCATION: ELEC. 109 **VOLTS:** 120/208 Wye **A.I.C. RATING:** EXISTING

MOUNTING: SURFACE **WIRES:** 4 **BUS RATING:** 225 A

CIRCUITS: 42 **MAIN:** MLO

CKT	Circuit Description	Rating	Poles	A	B	C	A	B	C	Poles	Rating	Circuit Description	CKT
1	(2) **(N) RECEPTS - LOBBY 200, RECEP. 201**	20 A	1	**1080**			**123**			1	20 A	**(N) LIGHTING - FILE 221, JAN. 222, RR 224, 225** (2)	2
3	(2) **(N) RECEPTS - OFFICE 202**	20 A	1		**720**			**491**		1	20 A	**(N) LIGHTING - ELEV. 216, CORRIDORS** (2)	4
5	(2) **(N) RECEPTS - OFFICE 203**	20 A	1			**720**			**262**	1	20 A	**(N) LIGHTING - OFFICE 220, LOBBY 200** (2)	6
7	(2) **(N) RECEPTS - OFFICE 204**	20 A	1	**720**			**345**			1	20 A	**(N) LIGHTING - OFFICE 232, 233; CONF. 206** (2)	8
9	(2) **(N) RECEPTS - OFFICE 205**	20 A	1		**720**			**354**		1	20 A	**(N) LIGHTING - OFFICE 202-OFFICE 205** (2)	10
11	(2) **(N) RECEPTS - CORRIDOR 219, 229**	20 A	1			**360**			**403**	1	20 A	**(N) LIGHTING - FILE 230, RR 231** (2)	12
13	(2) **(N) RECEPTS - CORRIDOR 216**	20 A	1	**540**			**900**			1	20 A	**(N) RECEPTS - COMPUTER 108** (2)	14
15	(2) **(N) RECEPTS - OFFICE 220**	20 A	1		**900**			**370**		1	20 A	**(N) RECEPTS - FOUNTAIN** (2)	16
17	(2) **(N) RECEPTS - CORRIDOR 223, 226**	20 A	1			**730**			**1200**	**1**	**20 A**	**(N) REFRIGERATOR - BREAKROOM 119**	18
19	(2) **(N) RECEPTS - CONF. 228**	20 A	1	**900**			0			1	20 A	(E) SPARE	20
21	(2) **(N) RECEPTS - OFFICE 232**	20 A	1		**720**			0		1	20 A	(E) SPARE	22
23	(2) **(N) RECEPTS - OFFICE 233**	20 A	1			**720**			0	1	20 A	(E) SPARE	24
25	(E) SPARE	20 A	1	0			0			1	20 A	(E) SPARE	26
27	(E) SPARE	20 A	1		0			0		1	20 A	(E) SPARE	28
29	(E) SPARE	20 A	1			0			0	1	20 A	(E) SPARE	30
31				0			0						32
33	(E) SPARE	15 A	3		0			0		3	15 A	(E) SPARE	34
35						0			0				36
37				0			0						38
39	(E) SPARE	15 A	3		0			0		3	70 A	(E) SPARE	40
41						0			0				42
	TOTAL LOAD (VOLT-AMPS):			PHASE A		PHASE B			PHASE C				
				4608 VA		4275 VA			4394 VA				
	TOTAL LOAD (AMPS)			39 A		36 A			37 A				

GENERAL NOTES:

1. ELECTRICAL CONTRACTOR TO MAKE MODIFICATIONS AS REQUIRED TO ACCOUNT FOR EXISTING BUILDING CONDITIONS. VERIFY ALL LOADS ARE ENERGIZED AND ELECTRICAL EQUIPMENT IS INSTALLED PER THE CEC.
2. REPLACE ALL EXISTING ELECTRICAL DISTRIBUTION COMPONENTS WITHIN PROJECT SCOPE THAT ARE NOT IN GOOD WORKING CONDITION.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SELECT, PROVIDE AND INSTALL ACCESSORIES NECESSARY TO RENDER A COMPLETE, PROFESSIONAL AND CODE COMPLIANT INSTALLATION OF ALL LUMINAIRES ASSOCIATED WITH THE PROJECT. THIS INCLUDES DRYWALL CEILING INSTALLATION KITS, TENMATS FOR RATED APPLICATIONS, WHIPS, CABLING OR ANY OTHER ITEMS REQUIRED FOR EACH LUMINAIRE'S SPECIFIC INSTALLATION LOCATION. SEE ARCHITECTURAL SHEETS FOR FURTHER INSTALLATION REQUIREMENTS.

KEYED NOTES:

(1) DISCONNECT AND REMOVE ALL DEMOLISHED EQUIPMENT AND ASSOCIATED CONDUIT/CONDUCTORS FROM PANEL. DISCONNECT AND REMOVE AND/OR PROVIDE AND INSTALL CIRCUIT BREAKER INDICATED ON PANEL SCHEDULE. MAKE MODIFICATIONS AS SHOWN AND UTILIZE EXISTING CIRCUIT BREAKERS AS APPLICABLE.

(2) REUSE EXISTING CIRCUIT BREAKER FOR NEW OR RELOCATED EQUIPMENT AS SHOWN.

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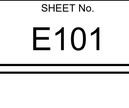

KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE
EUREKA, CA 95501

SHEET TITLE

ELECTRICAL PANEL SCHEDULES

DRAWING STATUS
CONSTRUCTION DOCUMENTS

Drawn By	TA
Date Issued	06.01.2023
Scale	
Project No.	22-6507

SHEET No.

E101

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GENERAL NOTES:

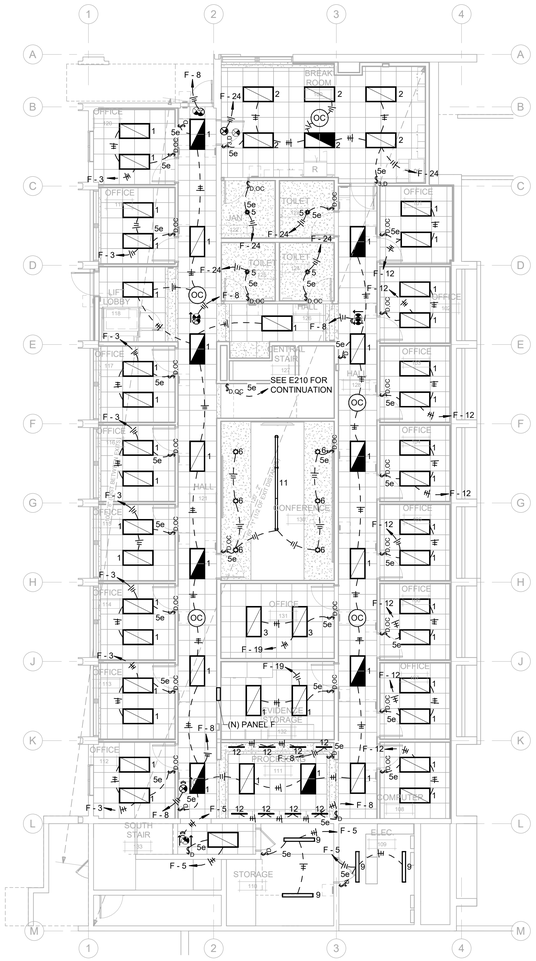
1. EXISTING BRANCH CIRCUIT CONDUIT RUNS UNDER SLAB TO REMAIN. ELECTRICAL CONTRACTOR TO REUSE EXISTING CONDUIT OR PROVIDE NEW RACEWAYS TO SERVE ELECTRICAL FIXTURES AS SHOWN.

KEYED NOTES:

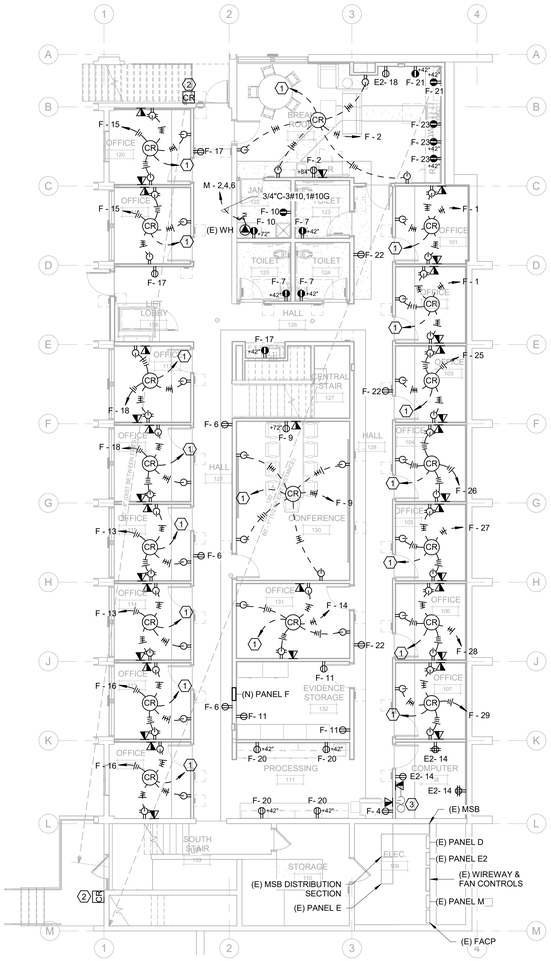
(1) CONNECT CONTACT RELAY TO ROOM OCCUPANY SENSOR FOR SPLITWIRED RECETPACLE CONTROL.

(2) PROVIDE JUNCTION BOX MOUNTED AT 48" AFF FOR CARD READER. COORDINATE WITH SECURITY CONTRACTOR PRIOR TO INSTALLATION.

(3) PROVIDE AND INSTALL (2) 4" EMPTY CONDUIT IN COMPUTER ROOM FOR DATA CABLING. STUB OUT CEILING 4". COORDINATE FINAL LOCATION WITH OWNER/ARCHITECT.



2 E200 ELECTRICAL FIRST FLOOR LIGHTING PLAN
1/8" = 1'-0"



1 E200 ELECTRICAL FIRST FLOOR POWER PLAN
1/8" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER
JAMES TAYLOR ANDREWS
No. E17176
EXP. 9-30-2024
ELECTRICAL
STATE OF CALIFORNIA

KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE
EUREKA, CA 95501

SHEET TITLE

ELECTRICAL FIRST FLOOR PLANS

DRAWING STATUS
CONSTRUCTION DOCUMENTS

Drawn By	TA
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Project No.	22-6507

SHEET No.

E200

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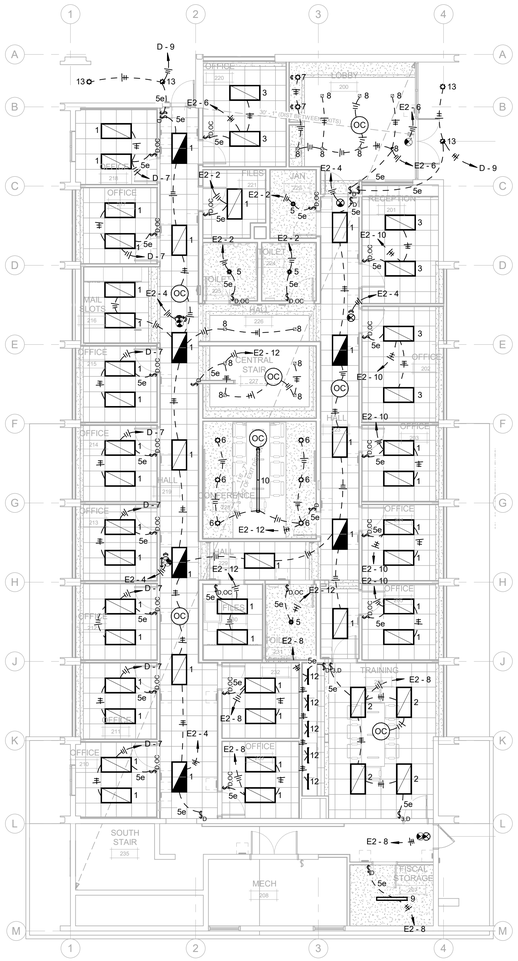
KEYED NOTES:

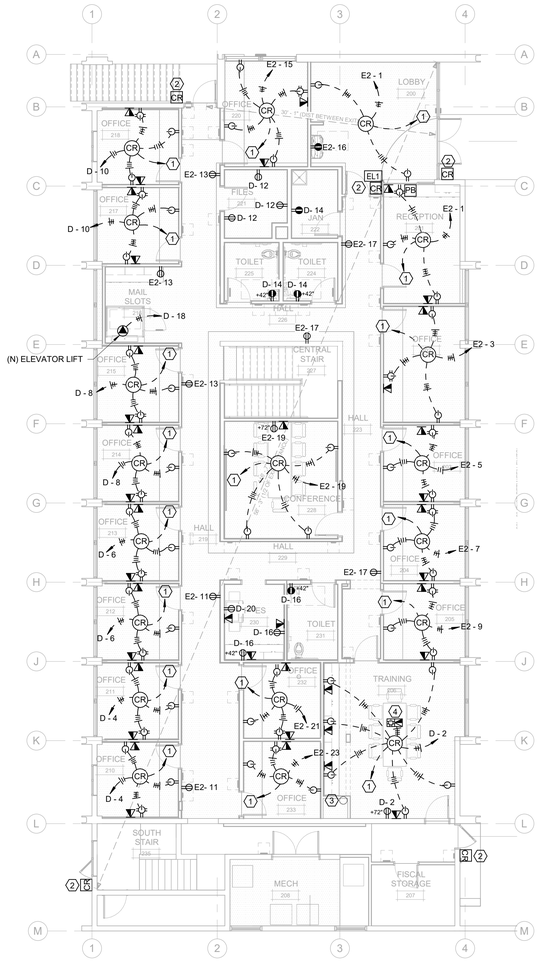
1. CONNECT CONTACT RELAY TO ROOM OCCUPANY SENSOR FOR SPLITWIRED RECEPTACLE CONTROL.
2. PROVIDE JUNCTION BOX MOUNTED AT 48" AFF FOR CARD READER. COORDINATE WITH SECURITY CONTRACTOR PRIOR TO INSTALLATION.
3. PROVIDE AND INSTALL 4" EMPTY CONDUIT UP FROM FIRST FLOOR IN EXISTING CHASE FOR COMPUTER ROOM DATA CABLING. COORDINATE FINAL LOCATION WITH OWNER/ARCHITECT.
4. FLOOR MOUNTED BOX. COORDINATE FINISH WITH OWNER/ARCHITECT.



2 E210 ELECTRICAL SECOND FLOOR LIGHTING PLAN

1/8" = 1'-0"

N



1 E210 ELECTRICAL SECOND FLOOR POWER PLAN

1/8" = 1'-0"

N

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KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE
EUREKA, CA 95501

SHEET TITLE

ELECTRICAL SECOND FLOOR PLANS

DRAWING STATUS
CONSTRUCTION DOCUMENTS

Drawn By	TA
Date Issued	06.01.2023
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Project No.	22-6507

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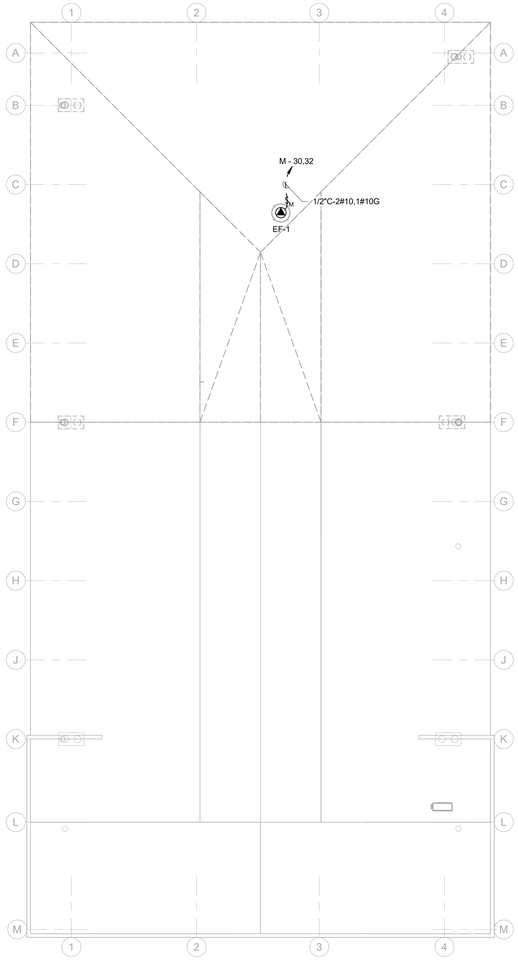

1 E240 ELECTRICAL ROOF PLAN

1/8" = 1'-0"

N

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LICENSE STAMPS

KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE
EUREKA, CA 95501

SHEET TITLE

ELECTRICAL ROOF PLAN

DRAWING STATUS
CONSTRUCTION DOCUMENTS

Drawn By	TA
Date Issued	06.01.2023
Scale	1/8" = 1'-0"
Project No.	22-6507

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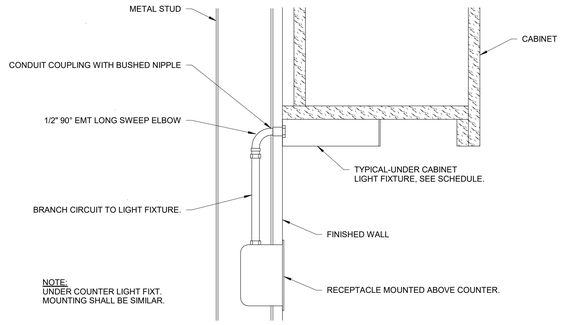
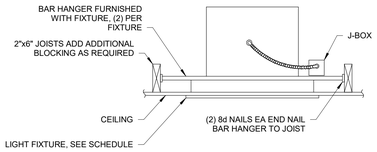


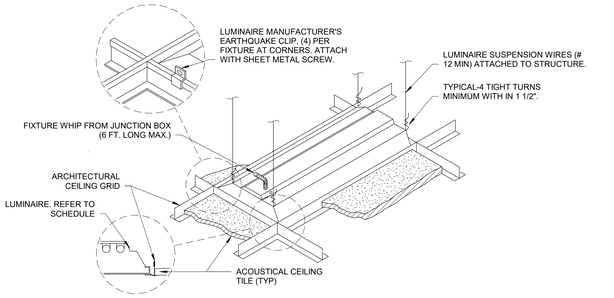
3 E300 UNDER CABINET LT. FIXT. MOUNTING DETAIL

NOT TO SCALE



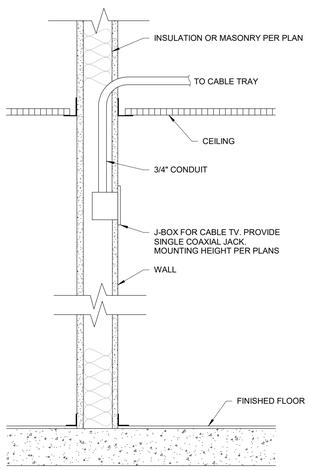
2 E300 RECESS DOWNLIGHT DETAIL IN HARD LID CEILING

NOT TO SCALE



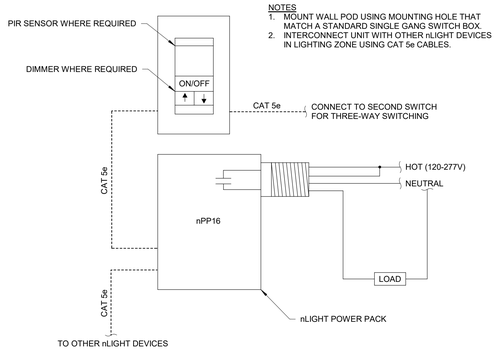
1 E300 LIGHT FIXTURE MOUNTING DETAIL - LAY-IN CEILING

NOT TO SCALE



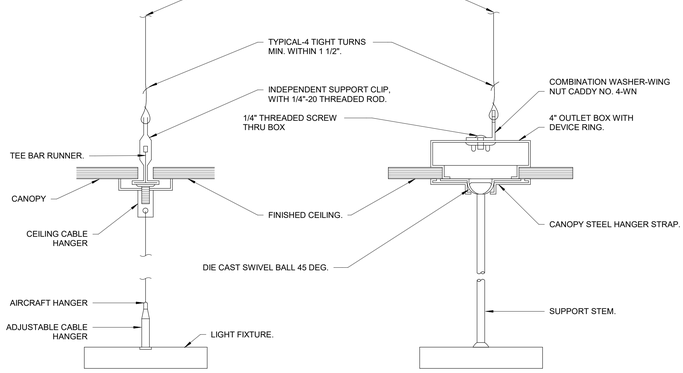
6 E300 TYPICAL TV OUTLET INSTALLATION

NOT TO SCALE



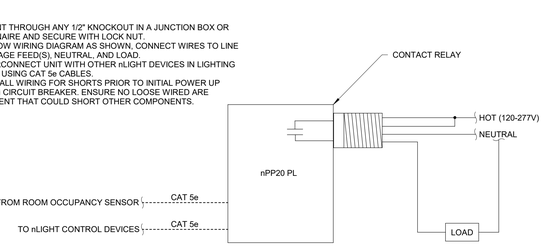
5 E300 TYPICAL LIGHTING CONTROL DETAIL

NOT TO SCALE



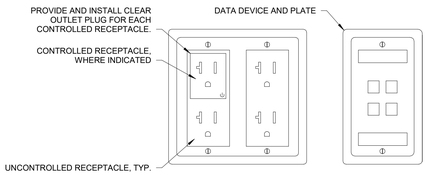
4 E300 SUSPENDED LIGHTING FIXTURE MOUNTING DETAIL

NOT TO SCALE



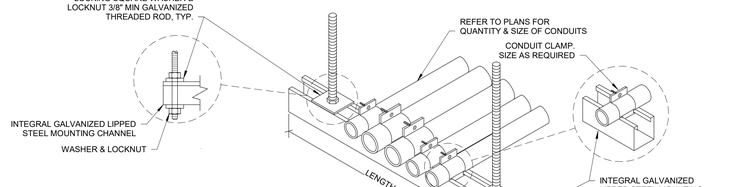
9 E300 TYPICAL CONTACT RELAY DETAIL

NOT TO SCALE



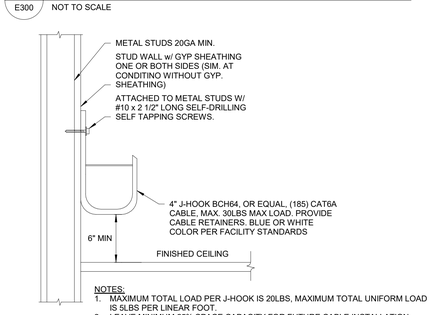
8 E300 POWER AND DATA OUTLET GROUPING

NOT TO SCALE



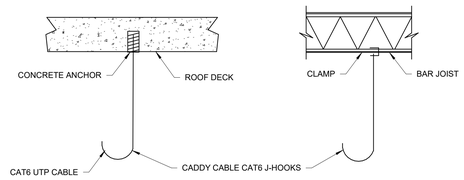
7 E300 CONDUIT TRAPEZE MOUNTING DETAIL

NOT TO SCALE



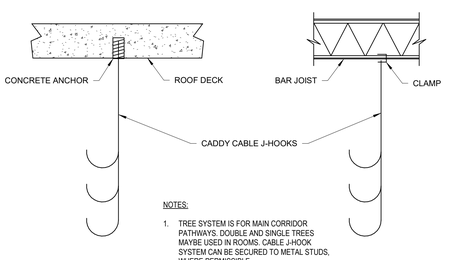
12 E300 CABLE HANGER (SINGLE J-HOOK)

NOT TO SCALE



11 E300 CABLE HANGER (SINGLE J-HOOK)

NOT TO SCALE



10 E300 CABLE HANGER (MULTIPLE J-HOOKS)

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LICENSE STAMPS

KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE EUREKA, CA 95501

SHEET TITLE

ELECTRICAL DETAILS

DRAWING STATUS
CONSTRUCTION DOCUMENTS

Drawn By	TA
Date Issued	06.01.2023
Scale	As indicated
Project No.	22-6507

SHEET No.

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Project Name:	HUMBOLDT COUNTY PROBATION REMODEL	Date Prepared:	2023-05-08

A. General Information

1	Project Name	HUMBOLDT COUNTY PROBATION REMODEL			
2	Run Title	Title 24 Analysis			
3	Project Location	2002 Harrison Avenue			
4	City	Eureka	5	Standards Version	Compliance 2022
6	Zip code	95501	7	Compliance Software (version)	EnergyPro 9.1
8	Climate Zone	1	9	Building Orientation (deg)	0
10	Building Type(s)	• Nonresidential	11	Weather File	WOODLEY-ISLAND_STYP20.epw
12	Project Scope	• Existing alteration	13	Number of Dwelling Units	0
14	Total Conditioned Floor Area in Scope (ft²)	9597	15	Total # of hotel/motel rooms	0
16	Total Unconditioned Floor Area (ft²)	0	17	Fuel Type	Natural gas
18	Nonresidential Conditioned Floor Area	9597	19	Total # of Stories (Habitable Above Grade)	1
20	Residential Conditioned Floor Area	0			

B. PROJECT SUMMARY

Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within the permit application.

Building Components Complying via Performance						Building Components Complying Prescriptively	
Envelope (See Table G)	Nonres	Not Included	Solar Thermal Water Heating (See Table I3)	☐	Performance	The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).	
	MultiFam	Not Included		☒	Not Included		
Mechanical (See Table H)	Nonres	Performance	Covered Process: Commercial Kitchens (see Table J)	☐	Performance	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)	NRCC-LTI-E is required
	MultiFam	Not Included		☒	Not Included	Outdoor Lighting 140.7 & 170.2(e)	NRCC-LTO-E is required
Domestic Hot Water (See Table I)	Nonres	Not Included	Covered Process: Laboratory Exhaust (see Table J)	☐	Performance	Sign Lighting 140.8 & 170.2(e)	NRCC-LTS-E is required
	MultiFam	Not Included		☒	Not Included	**Building Components Complying with Mandatory Measures**	
Lighting (Indoor Conditioned, see Table K)	Nonres	Performance	Photovoltaics (see Table F)	☒	Performance	Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)	
	MultiFam	Not Included		☐	Not Included	Electrical Power Distribution 110.11	NRCC-ELC-E is required
			Battery (see Table F)	☐	Performance	Commissioning 120.8	NRCC-CXR-E is required
				☒	Not Included	Solar and Battery 110.10	NRCC-SAB-E is required

C1. COMPLIANCE SUMMARY

COMPLIES[3]

	Time Dependent Valuaton (TDV)		Source Energy Use
	Efficiency[1] (kBtu/ft² - yr)	Total[2] (kBtu/ft² - yr)	Total[2] (kBtu/ft² - yr)
Standard Design	442.65	442.65	126.58
Proposed Design	428.07	428.07	126.18
Compliance Margins	**14.58**	**14.58**	**0.4**
	Pass	Pass	Pass

[1] Efficiency measures include improvements like a better building envelope and more efficient equipment
[2] Compliance Totals include efficiency, photovoltaics and batteries
[3] Building complies when efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded

C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft² - yr)

COMPLIES[2]

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	323.73	328.24	-4.51
Space Cooling	7.93	0.36	7.57
Indoor Fans	69.52	63.02	6.5
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	8.25	8.26	-0.01
Indoor Lighting	33.22	28.19	5.03
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**442.65**	**428.07**	**14.58 (3.3%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**442.65**	**428.07**	**14.58 (3.3%)**

[1] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	139.71	139.71	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**582.36**	**567.78**	**14.58 (2.5%)**

[1] Notes: This table is not used for Energy Code Compliance.

C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/ft² /yr)

COMPLIES[2]

Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Space Heating	115.73	117.24	-1.51
Space Cooling	0.86	0.04	0.82
Indoor Fans	6.71	6.01	0.7
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	0.69	0.69	0
Indoor Lighting	2.59	2.2	0.39
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**126.58**	**126.18**	**0.4 (0.3%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**126.58**	**126.18**	**0.4 (0.3%)**

[1] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Receptacle	11.56	11.56	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**138.14**	**137.74**	**0.4 (0.3%)**

[1] Notes: This table is not used for Energy Code Compliance.

C6. 'ABOVE CODE' QUALIFICATIONS

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

C7. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	---	0.2	---	1192.5	1207.6	-15.1
Space Cooling	2.7	0.1	2.6	---	---	---
Indoor Fans	23.4	21.2	2.2	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	---	---	---	---	---	---
Domestic Hot Water	3.1	3.1	0	---	---	---
Indoor Lighting	12.8	10.9	1.9	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	**42**	**35.5**	**6.5**	**1192.5**	**1207.6**	**-15.1**
Photovoltaics	---	---	---	---	---	---
Batteries	---	---	---	---	---	---
ENERGY USE SUBTOTAL	**42**	**35.5**	**6.5**	**1192.5**	**1207.6**	**-15.1**
Receptacle	54	54	0	---	---	---
Process	---	---	---	---	---	---
Other Ltg	---	---	---	---	---	---
Process Motors	---	---	---	---	---	---
ENERGY USE TOTAL	**96**	**89.5**	**6.5**	**1192.5**	**1207.6**	**-15.1**

C8. ENERGY USE INTENSITY (EUI)

	Standard Design (kBtu/ft² / yr)	Proposed Design (kBtu/ft² / yr)	Margin (kBtu/ft² / yr)	Margin Percentage
GROSS EUI[1]	158.39	157.65	0.74	0.47
NET EUI[1]	158.39	157.65	0.74	0.47

[1] Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.

F1. REQUIRED PV SYSTEMS

01	02	03	04	05	06	07	08	09	10	11	12
DC System Size (kWdc)	Exception[1]	Module Type	Array Type	Power Electronics	CFI	Azimuth (deg)	Tilt Input	Array Angle (deg)	Tilt: (x in 12)	Inverter Eff. (%)	Annual Solar Access (%)

[1]See Table D1 for any PV exceptions used.

F1B. PV BATTERY BUILDING TYPE(S)

01	02	03
Building Occupancy Type* (From Table 140.10-A/B and 170.2-U/V)	Conditioned Floor Area (ft²)	Unconditioned Floor Area (ft²)
Grocery	0	0
High-Rise Multifamily	0	0
Office, Financial Institutions, Unleased Tenant Space	9597	0
Retail	0	0
School	0	0
Warehouse	0	0
Auditorium, Convention Center, Hotel/Motel, Library, Medical Office Building/Clinic, Restaurant, Theater	0	0
None	0	0

*Building Occupancy Types are defined in Section 100.1 of the Energy Code

H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01	02	03	04	05	06	07	08	09	10	11	12
			Heating				Cooling				
Equipment Name	Equipment Type	Qty	Total Heating Output (kBtu/h)	Supp Heat Output (kBtu/h)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency	Economizer Type (if present)	Status[1]
HV-1	Single Zone Air Conditioner (SZAC) Air System	1	160	0	AFUE	80	0	N/A	NA	No Economizer	E
HV-2	Single Zone Air Conditioner (SZAC) Air System	1	160	0	AFUE	80	0	N/A	NA	No Economizer	E
HV-3	Single Zone Air Conditioner (SZAC) Air System	1	160	0	AFUE	80	0	N/A	NA	No Economizer	E
HV-4	Single Zone Air Conditioner (SZAC) Air System	1	160	0	AFUE	80	0	N/A	NA	No Economizer	E
HP-1	Single Zone Heat Pump (SZHP) Air System	1	14.4	0	N/A	NA	12	EER SEER	12.8 23	No Economizer	N

[1] Status: N - New, A - Altered, E - Existing

H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12	13
			Supply Fan				Return / Relief Fan					
Name or Item Tag	Qty	Design OA CFM	CFM	Power	Power Units	Control	Fan Type	CFM	Power	Power Units	Control	Status[1]
HV-1	1	386.55	2,100	0.75	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	E
HV-2	1	330.6	2,100	0.75	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	E
HV-3	1	294.45	2,100	0.75	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	E
HV-4	1	359.55	2,100	0.75	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	E
HP-1	1	0	403	0.03	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N

[1] Status: N - New, A - Altered, E - Existing

H5. GENERAL EXHAUST FAN SUMMARY

01	02	03	04	05	06	07	08
System ID	Zone Name	Qty	CFM	Power	Power Units	Continuous Operation?	Status[1]
WEST ZONE 2nd FLOOR3	1-WEST ZONE 2nd FLOOR	1	890	0.3	BHP	No	E
EAST ZONE 2nd FLOOR89	2-EAST ZONE 2nd FLOOR	1	890	0.3	BHP	No	E
WEST ZONE 1st FLOOR158	3-WEST ZONE 1st FLOOR	1	890	0.3	BHP	No	E
EAST ZONE 1st FLOOR224	4-EAST ZONE 1st FLOOR	1	790	0.27	BHP	No	E
108 - COMPUTER290	5-108 - COMPUTER	1	100	0.03	BHP	No	E

[1] Status: N - New, A - Altered, E - Existing

H8. SYSTEM SPECIAL FEATURES

01	02	03	04
System Name	Equipment Type	Interlocks per 140.4(n)[1]	Other Special Features and Controls
Undefined Plant1 - SHW	Service Hot Water	N/A	Fixed Temperature Control

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.

[1] Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.

H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION

01	02	03	04	05	06	07
	Mechanical Ventilation					
Zone Name	Ventilation Function	# of People# of People	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
1-WEST ZONE 2nd FLOOR	Office - Office space	12.88	386.55	890	2577	N/A
2-EAST ZONE 2nd FLOOR	Office - Office space	11.02	330.6	890	2204	N/A
3-WEST ZONE 1st FLOOR	Office - Office space	9.81	294.45	890	1963	N/A
4-EAST ZONE 1st FLOOR	Office - Office space General - Unoccupied	12.51	359.55	790	2745	N/A
5-108 - COMPUTER	Misc - All others	0.16	16.2	100	108	N/A

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12
			Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
System ID	System Type	Qty	Heating	Cooling	Design	MIn.	Min. Ratio	Power	Power Units	Cycles	VSD
1-WEST ZONE 2nd FLOOR-Trm	Uncontrolled	1	N/A	N/A	2,100	N/A	0	N/A	N/A	N/A	☐

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12
			Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
System ID	System Type	Qty	Heating	Cooling	Design	MIn.	Min. Ratio	Power	Power Units	Cycles	VSD
2-EAST ZONE 2nd FLOOR-Trm	Uncontrolled	1	N/A	N/A	2,100	N/A	0	N/A	N/A	N/A	☐
3-WEST ZONE 1st FLOOR-Trm	Uncontrolled	1	N/A	N/A	2,100	N/A	0	N/A	N/A	N/A	☐
4-EAST ZONE 1st FLOOR-Trm	Uncontrolled	1	N/A	N/A	2,100	N/A	0	N/A	N/A	N/A	☐
5-108 - COMPUTER-Trm	Uncontrolled	1	N/A	N/A	403	N/A	0	N/A	N/A	N/A	☐

K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

01	02	03	04	05	06
				Additional (Custom) Allowance	
Occupancy Type[1]	Conditioned Floor Area[2] (ft²)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Area Category Footnotes (Watts)	Area Category Footnotes (Watts)
Computer Room	108	58	0	0	0
Electrical Mechanical Telephone Room	348	100	0	0	0
Office (250 square feet)	9141	4656.1	0	0	0
Building Totals:	**9597**	**4814.1**	**0**	**0**	**0**

[1]See Table 140.6-C
[2]See NRCC-LTI--E for unconditioned spaces
[3]Lighting information for existing spaces modeled is not included in this table

K2. INDOOR CONDITIONED LIGHTING SCHEDULE

Luminaire Schedule (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft² in offices)

01	02	03	04	05	06
		Installed Watts (Conditioned)			
Name or Item Tag	Complete Luminaire Description (i.e. 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per luminaire	How is Wattage determined	Total Number of Luminaires	Installed Watts
TYPE 1	HC PROBATION - TYPE 1 - EPANL - 29.0VA	29	According to	96	2784
TYPE 3	HC PROBATION - TYPE 3 - EPANL - 45.0VA	45	According to	8	360
TYPE 8	HC PROBATION - TYPE 8 - B3SDM-UA - 18.2VA	18.2	According to	13	236
TYPE 7	HC PROBATION - TYPE 7 - EVO6W - 19.7VA	19.7	According to	2	39
TYPE 2	HC PROBATION - TYPE 2 - EPANL - 37.6VA	37.6	According to	10	376
TYPE 12	HC PROBATION - TYPE 12 - LEDUC-E - 9.7VA	9.7	According to	13	126
TYPE 5	HC PROBATION - TYPE 5 - EVO4 - 31.2VA	31.2	According to	8	249
TYPE 6	HC PROBATION - TYPE 6 - EVO6 - 19.7VA	19.7	According to	12	236
TYPE 10	HC PROBATION - TYPE 10 - SQM4 - 122.4VA	122.4	According to	1	122
TYPE 11	HC PROBATION - TYPE 11 - SQM4 - 183.6VA	183.6	According to	1	183
9	HC PROBATION - TYPE 9 - BLWP4 - 25VA	25	According to	4	100

[1]If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per 140.6(a)2 and Table 140.6-A)

01	02	03	04	05	06	07	08	09
Area Description	Primary Function Area (must meet requirements of Table 140.6-A and 170.2-L)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Item Tag	Watts per Luminaire	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
S-1-WEST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-1-WEST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-1-WEST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-1-WEST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-1-WEST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-1-WEST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-1-WEST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-1-WEST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-1-WEST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-1-WEST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	7	203	0
S-1-WEST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 3	45	2	90	0
S-1-WEST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	1	29	0
S-1-WEST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	1	29	0

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per 140.6(a)2 and Table 140.6-A)

01	02	03	04	05	06	07	08	09
Area Description	Primary Function Area (must meet requirements of Table 140.6-A and 170.2-L)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Item Tag	Watts per Luminaire	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
S-1-WEST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-1-WEST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-1-WEST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-2-EAST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 8	18.2	7	127.4	0
S-2-EAST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 7	19.7	2	39.4	0
S-2-EAST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 3	45	2	90	0
S-2-EAST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 3	45	2	90	0
S-2-EAST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-2-EAST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-2-EAST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-2-EAST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 2	37.6	4	150.4	0
S-2-EAST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 12	9.7	5	48.5	0
S-2-EAST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 5	31.2	1	31.2	0

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per 140.6(a)2 and Table 140.6-A)

01	02	03	04	05	06	07	08	09
Area Description	Primary Function Area (must meet requirements of Table 140.6-A and 170.2-L)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Item Tag	Watts per Luminaire	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
S-2-EAST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	5	145	0
S-2-EAST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 5	31.2	1	31.2	0
S-2-EAST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 5	31.2	1	31.2	0
S-2-EAST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 8	18.2	6	109.2	0
S-2-EAST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 6	19.7	6	118.2	0
S-2-EAST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 10	122.4	1	122.4	0
S-2-EAST ZONE 2nd FLOOR	Office (250 square feet)	N/A	N/A	TYPE 5	31.2	1	31.2	0
S-3-WEST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-3-WEST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 12	9.7	8	77.6	0
S-3-WEST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-3-WEST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-3-WEST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-3-WEST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per 140.6(a)2 and Table 140.6-A)

01	02	03	04	05	06	07	08	09
Area Description	Primary Function Area (must meet requirements of Table 140.6-A and 170.2-L)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Item Tag	Watts per Luminaire	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
S-3-WEST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-3-WEST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-3-WEST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	1	29	0
S-3-WEST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-3-WEST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-3-WEST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	8	232	0
S-3-WEST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 5	31.2	1	31.2	0
S-3-WEST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 5	31.2	1	31.2	0
S-3-WEST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	1	29	0
S-4-EAST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-4-EAST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-4-EAST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-4-EAST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per 140.6(a)2 and Table 140.6-A)

01	02	03	04	05	06	07	08	09
Area Description	Primary Function Area (must meet requirements of Table 140.6-A and 170.2-L)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Item Tag	Watts per Luminaire	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
S-4-EAST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-4-EAST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-4-EAST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-4-EAST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 5	31.2	1	31.2	0
S-4-EAST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 5	31.2	1	31.2	0
S-4-EAST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	6	174	0
S-4-EAST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 6	19.7	6	118.2	0
S-4-EAST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 11	183.6	1	183.6	0
S-4-EAST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 3	45	2	90	0
S-4-EAST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 1	29	2	58	0
S-4-EAST ZONE 1st FLOOR	Office (250 square feet)	N/A	N/A	TYPE 2	37.6	6	225.6	0
S-5-Unconditioned Zone	Electrical Mechanical Telephone Room	N/A	N/A	9	25	2	50	0
S-5-Unconditioned Zone	Electrical Mechanical Telephone Room	N/A	N/A	9	25	2	50	0

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per 140.6(a)2 and Table 140.6-A)

01	02	03	04	05	06	07	08	09
Area Description	Primary Function Area (must meet requirements of Table 140.6-A and 170.2-L)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Item Tag	Watts per Luminaire	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
S-6-108 - COMPUTER	Computer Room	N/A	N/A	TYPE 1	29	2	58	0
Lighting Control Credits (Conditioned) Total (Watts)								**0**

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL

Building Level Controls

01	02
Mandatory Demand Response 110.12(c)	Shut-Off Controls 130.1(c) & 160.5(b)4C
Required	Required

See NRCC-LTI-E for mandatory controls

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

Building Component	Form/Title
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings
Mechanical	NRCI-MCH-E - For all buildings with Mechanical Systems
Plumbing	NRCI-PLB-01-E - Must be submitted for all buildings
Plumbing	NRCI-PLB-E - For all buildings with Plumbing Systems
Indoor Lighting	NRCI-LTI-01-E - Must be submitted for all buildings
Indoor Lighting	NRCI-LTI-E - Indoor Lighting (for all buildings)

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).

Building Component	Form/Title
Indoor Lighting	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls.
Mechanical	NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
Mechanical	NRCA-MCH-03-A - Constant Volume Single Zone HVAC

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

There are no Certificates of Verification applicable to this project

Documentation Author's Declaration Statement

1. I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name: Ben Abrahamsen	Documentation Author Signature:
Company: Frontier Consulting Engineering, Inc.	Signature Date: May 08, 2023
Address: 2727 Bechelli Lane	CEA/HERS Certification Identification (if applicable): M35923
City/State/Zip: Redding, Ca 96002	Phone: 530 232 6160

Responsible Person's Declaration statement

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

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

Responsible Designer Name: Ben R. Abrahamsen	Responsible Designer Signature:	
Company: Frontier Consulting Engineers, Inc.		
Address: 2727 Bechelli Lane	Date Signed: May 08, 2023	
City/State/Zip: Redding, CA 96002	License #: M35923	
Phone: 530.232.6160	Title: Mechanical Engineer	Scope:

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REVISIONS

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LICENSE STAMPS

REGISTERED PROFESSIONAL ENGINEER
CHRIS ABRAHAMSEN
No. E12726
EXP. 9-30-2024
ELECTRICAL
STATE OF CALIFORNIA

KEY PLAN

PROJECT NAME

COUNTY OF HUMBOLDT

PROBATION BUILDING FIRE RECONSTRUCTION PROJECT

2002 HARRISON AVENUE
EUREKA, CA 95501

SHEET TITLE

TITLE 24 COMPLIANCE FORMS

DRAWING STATUS
CONSTRUCTION DOCUMENTS

Drawn By	TA
Date Issued	06.01.2023
Scale	
Project No.	22-6507

SHEET No.

E400

Plot Date: 6/6/2023 9:57:41 AM
File Name: Autodesk Docs://Humboldt County Probation/E_HCJ-PROBATION.rvt

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTO-E**
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J. LIGHTING ALLOWANCE: PER APPLICATION

This table includes areas using the wattage allowance per application from Table 140.7-B / Table 170.2-S.

01	02	03	04	05	06	07	08	09	10
		CALCULATED ALLOWANCE (Watts)			DESIGN WATTS				
Area Description	Application per Table 140.7-B[1]	# of Locations	Allowance per Location[2]	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	Additional Allowance (Watts)
Main Entrance	Building Entrance/Exit	1	15	15	13	6.2	2	12.4	12.4
				Total Design Watts for this Area				12.4	
Other Entrance	Building Entrance/Exit	1	15	15	13	6.2	2	12.4	12.4
				Total Design Watts for this Area				12.4	
							Total Allowance (Watts) All Areas:		24.8

[1] FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.
[2] The Allowance per Location for ATMs is 100W for the first ATM and 35W for each additional per Table 140.7-B /Table 170.2-S.
[3] For luminaires indicated in Table F as linear, wattage in column G is W/LF instead of Watts/luminaire. Total linear feet should be indicated in column GB instead of number of luminaires.*

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

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STATE OF CALIFORNIA
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H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
Outdoor lighting for nonresidential buildings, parking garages and common area areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit.
Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	05	
Area Description	Shut-Off 130.2(c)1) / 160.5(c)	Auto-Schedule 130.2(c)2 / 160.5(c)	Motion Sensor 130.2(c)3 / 160.5(c)	Field Inspector	
				Pass	Fail

[1]FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.
[2]Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source
[3]Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from J and G.

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))

This table includes areas using allowance calculations per 140.7 / 170.2(e). General Purpose Allowance is per Table 140.7-A/Table 170.2-B while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.
Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H, and are not included here. All other multifamily outdoor lighting is included here.

	01			
	"Use it or lose it" Allowance (select all that apply)			
☐ General Hardscape Allowance Table I (below)	☒ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☐ Per Specific Area Table M

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F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2i, only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included).
Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H, and are not included here. All other multifamily outdoor lighting is included here.
Designed Wattage:

01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Watts per luminaire[1]	How is Wattage determined	Total Number Luminaires[2]	Luminaire Status[3]	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output > 130.2(b) / 160.5(c)1*[1]	Field Inspector
									Pass / Fail
13	HC PROBATION - TYPE 13 - EVO6 - 6.2VA	☐ Linear 6.2	Mfr. Spec	4	New	☐	24.8	NA, < 6200 lumens	☐ / ☐
						Total Design Watts:	25		

** NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.*
EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)
[1]FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)
[2] For linear luminaires, wattage should be indicated as W/LF instead of Watts/luminaire. Total linear feet should be indicated in column DS instead of number of luminaires.
[3] Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.
[4] Compliance with mandatory shielding requirements is required for luminaires with initial lumen output <= 6,200 unless exempted by 130.2(b) / 160.5(c)

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.

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STATE OF CALIFORNIA
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C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4b

01		02		03		04		05		06		Compliance Results		
General Hardscape Allowance 140.7(d)1 / 170.2(e)6i (See Table I)	+	Per Application 140.7(d)2 / 170.2(e)6ii (See Table J)	+	Sales Frontage 140.7(d)3 (See Table K)	+	Ornamental 140.7(d)2 / 170.2(e)6ii (See Table L)	+	Per Specific Area 140.7(d)2 / 170.2(e)6ii (See Table M)	OR	Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N)	+	07 Total Allowed (Watts)	08 x	09 Total Actual (Watts)	07 must be >= 08
0	+	24.8	+	---	+	---	+	---	OR	---	+	25	>	25	COMPLIES
Shielding Compliance (See Table G for Details):															N/A
Controls Compliance (See Table H for Details):															Not applicable

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

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STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTO-E**
Project Name: HUMBOLDT COUNTY PROBATION REMODEL	**Report Page:** **(Page 5 of 7)**
Project Address: 2002 Harrison Avenue	**Date Prepared:** 5/8/2023

A. GENERAL INFORMATION

01 [Project Location (city)]	Eureka		
02 [Climate Zone]	1	04 [Total Illuminated Hardscape Area (ft²)]	0
03 [Outdoor Lighting Zone per Title 24 Part 1, 10-114 or as designated by Authority Having Jurisdiction (AHJ)]			
☐ LZ-0: Very Low - Undeveloped Parkland	☒ LZ-2: Moderate - Urban Clusters	☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval	
☐ LZ-1: Low - Rural Areas	☐ LZ-3: Moderately High - Urban Areas		
05 [Occupancy Types within Project]			
● Data Center ● Office ● Warehouse			

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations.
My Project Consists of:

01	02	
☐ New Lighting System	Must Comply with Allowances from 140.7 / 170.2(e)6	
☒ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?	● Yes ○ No
03	04	05
% of Existing Luminaires Being Altered*	Sum Total of Luminaires Being Added or Altered	Calculation Method
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%	0	

Please proceed to Table F, Outdoor Lighting Fixture Schedule to define the project's luminaires.
** FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.*

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Project Address: 2002 Harrison Avenue	**Date Prepared:** 5/2/2023

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Ben Abrahamsen	Documentation Author Signature: Ben Abrahamsen
Company: Frontier Consulting Engineering, Inc.	Signature Date: March 2, 2023
Address: 2727 Bechelli Lane	CEA/HERS Certification Identification (if applicable): 5435619
City/State/Zip: Redding Ca 96002	Phone: 530 232 6160

RESPONSIBLE PERSON'S DECLAARATION STATEMENT

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

Responsible Designer Name: Chris Abrahamsen	Responsible Designer Signature: Chris Abrahamsen
Company: Frontier Consulting Engineering, Inc.	Date Signed: 2023-03-02
Address: 2727 Bechelli Lane	License ID: C-17276
City/State/Zip: Redding Ca 96002	Phone: 530 232 6160

Registration Number:
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STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTO-E**
Project Name: HUMBOLDT COUNTY PROBATION REMODEL	**Report Page:** **(Page 6 of 7)**
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N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

Registration Number:
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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KEY PLAN

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TITLE 24 COMPLIANCE FORMS

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