California Department of Corrections and Rehabilitation

DRAWINGS

Pelican Bay State Prison

Replace Kitchen Hood Fire Extinguishing Systems

FEBRUARY 2026

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS
PELICAN BAY STATE PRISON (PBSP)
CRESCENT CITY, CALIFORNIA

OWNER AND OCCUPANT: CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION

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BUILDING H05 - B4 KITCHEN

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BUILDING H07 - B2 KITCHEN

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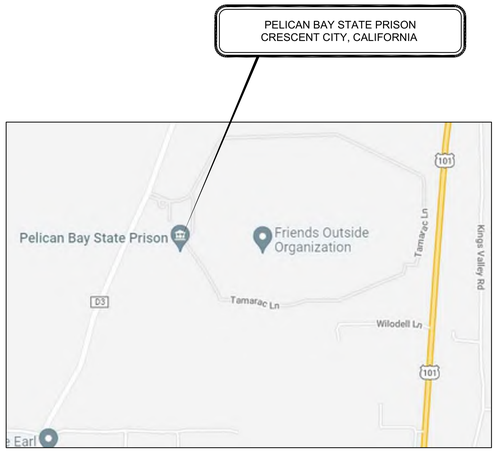
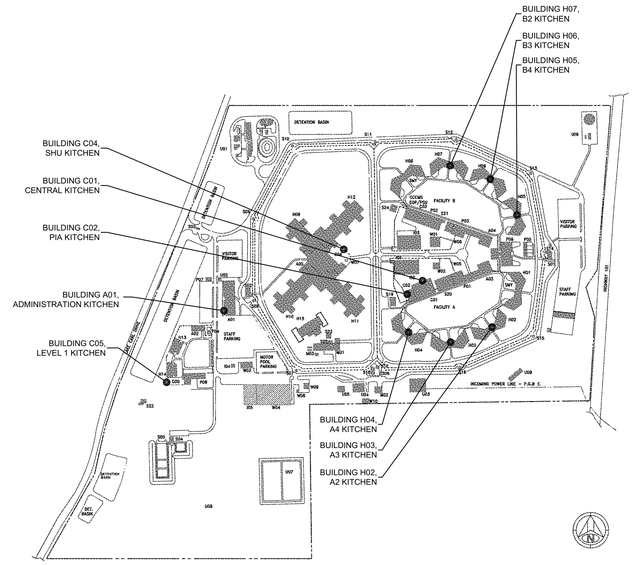
DETAILS

A9.0 ARCHITECTURAL DETAILS
S9.0 GENERAL NOTES
S9.1 EQUIPMENT ANCHORAGE



VICINITY MAP
NTS



SITE MAP
NTS

PROJECT SITE. FOR DETAILED LOCATIONS SEE SHEET A1.0

GOVMOTUS NUMBERS

BLDG A01 - ADMINISTRATION KITCHEN (PRIMARY)	23-N-5898-CA
BLDG C01 - CENTRAL KITCHEN	23-N-5899-CA
BLDG C02 - PIA KICHEN	23-N-5901-CA
BLDG C04 - SHU KITCHEN	23-N-5903-CA
BLDG C05 - LEVEL 1 KITCHEN	23-N-5904-CA
BLDG H02 - A2 KITCHEN	23-N-5905-CA
BLDG H03 - A3 KITCHEN	23-N-5906-CA
BLDG H04 - A4 KITCHEN	23-N-5907-CA
BLDG H05 - B4 KITCHEN	23-N-5908-CA
BLDG H06 - B3 KITCHEN	23-N-5909-CA
BLDG H07 - B2 KITCHEN	23-N-5910-CA

CALIFORNIA STATE FIRE MARSHAL FIELD INSPECTION

FOR FIELD INSPECTIONS AND FIRE PROTECTION SYSTEMS ACCEPTANCE TESTING, CONTACT:

DEPUTY:_____AT:_____
TO SCHEDULE APPOINTMENTS

THE CONTRACTOR SHALL FURNISH TO THE STATE FIRE MARSHAL FIELD DEPUTY A COPY OF THESE APPROVED DRAWINGS AND SPECIFICATIONS FOR THEIR USE DURING CONSTRUCTION OF THIS PROJECT. AFTER CONSTRUCTION, THE STATE FIRE MARSHAL FIELD DEPUTY SHALL RETURN THE DRAWINGS TO THE CDCR FIELD REPRESENTATIVE FOR DISPOSAL

CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION ACCESS COMPLIANCE REVIEW

☐ FINAL REVIEW-COMPLIES
☒ FINAL REVIEW-EXEMPT
☐ THIS ALTERATION PROJECT, IN CONJUNCTION WITH PROGRAM ACCOMMODATIONS/MODIFICATIONS, IS UNDERTAKEN SOLELY TO PROVIDE PROGRAM ACCESSIBILITY. PURSUANT TO 28 CFR 35.151(b)(2), PATH OF TRAVEL ALTERATIONS ARE NOT REQUIRED.
☐ FINAL REVIEW-IMPROVEMENT AREA ONLY COMPLIES. PATH OF TRAVEL TO THE IMPROVEMENT AREA, ALONG WITH OTHER ADA REQUIRED IMPROVEMENTS, INCLUDING ACCESS TO SUPPORT SPACES, PROGRAM SPACES, ETC. WILL NEED TO BE COMPLETED UNDER A SEPARATELY FUNDED PROJECT PRIOR TO DPW INMATES USING THE IMPROVED AREA.

APPROVAL OF THIS PLAN DOES NOT AUTHORIZE OR APPROVE ANY OMISSION OR DEVIATION FROM THE APPLICABLE CODES AND REGULATIONS.

TRACKING NUMBER: 1334 DATE 1/8/2025
REVIEWER:

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project No: 5892.00
Project Phase: FINAL DRAWINGS

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530.758.4270 office
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LICENSED ARCHITECT KEN YAMAUCHI C-26566 02-28-2025 RENEWAL DATE STATE OF CALIFORNIA

PBSP
REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS
PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024
SHEET TITLE: TITLE SHEET
CDCR Project No.: 20-034

SHEET NUMBER
T0.1
V3

ABBREVIATIONS

AB	ANCHOR BOLT
AFF	ABOVE FINISH FLOOR
AL	ALUMINUM
ARCH(L)	ARCHITECT(URAL)
AC	ASPHALT CONCRETE
BD	BOARD
BLDG	BUILDING
BIT	BITUTHENE
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BOT	BOTTOM
BUR	BUILT-UP ROOFING
CEM	CEMENT
CJ	CONTROL JOINT
CLKG	CAULKING
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMP	COMPOSITION
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
DBL	DOUBLE
DET	DETAIL
DF	DOUGLAS FIR
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DR	DOOR
DWG	DRAWING
DS	DOWNSPOUT
E	EAST
(E)	EXISTING
EA	EACH
EJ	EXPANSION JOINT
ELECT	ELECTRICAL
EQ	EQUIP
EL	ELEVATION
EXH	EXHAUST
EXIST(G)	EXISTING (SEE (E))
EXP	EXPANSION
FB	FLAT BAR
FD	FLOOR DRAIN
FDN	FOUNDATION
FIN	FINISH
FLEX	FLEXIBLE
FLR	FLOOR
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FRAMG	FRAMING
FT	FOOT OR FEET
FTG	FOOTING
FUR	FURRING
GA	GAUGE
GALV	GALVANIZED
GI	GALVANIZED IRON
GR	GRADE
GSM	GALVANIZED SHEET METAL
GYP	GYPSUM
HB	HOSE BIB
HC	HOLLOW CORE
HDR	HEADER
HM	HOLLOW METAL
HT	HEIGHT
ID	INSIDE DIAMETER
IN	INCH OR INCHES
INSUL	INSULATION
INV	INVERT
JST	JOIST
JT	JOINT
LAG	LAG BOLT(S)
LT	LIGHT
MAX	MAXIMUM
MB	MACHINE BOLT
MECH	MECHANICAL
MEM	MEMBRANE
MO	MASONRY OPENING
MTL	METAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNTED
N	NORTH
(N)	NEW
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NTS	NOT TO SCALE
O/	OVER
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPNG	OPENING
OPP	OPPOSITE
PL	PLATE
PLAS	PLASTER
PLYWD	PLYWOOD
PMF	PRESSED METAL FRAME
PR	PAIR
PVC	POLYVINYL CHLORIDE
R	RISER
RA	RETURN AIR
RDWD	REDWOOD
RD	ROOF DRAIN
REG	REGISTER
REINF	REINFORCE(D)(ING)
REQ'D	REQUIRED
RWL	RAIN WATER LEADER
S	SOUTH
SC	SOLID CORE
SCHED	SCHEDULE
SHT	SHEET
SIM	SIMILAR
SM	SHEET METAL
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SYM	SYMMETRICAL
T&B	TOB AND BOTTOM
TC	TOB OF CURB OR CONRETE
THRU	THROUGH
TW	TOP OF WALL
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UR	URINAL
VERT	VERTICAL
W	WEST
W/	WITH
W/O	WITHOUT
WG	WIRE GLASS
WH	WATER HEATER
WP	WEATHERPROOF OR WATERPROOF
WWM	WELDED WIRE MESH
WC	WATERCLOSET
YD	YARD
∠	ANGLE
@	AT
℄	CENTER LINE
Ø	DIAMETER
±	PLUS/MINUS

MATERIAL DESIGNATION

GYPSUM BOARD
CONCRETE
CONCRETE BLOCK
BATT INSULATION
RIGID INSULATION
METAL
WOOD FRAMING (CONT.)
WOOD BLOCKING
FINISH WOOD

SYMBOLS

COLUMN TAG
DETAIL NUMBER
SHEET NUMBER
DETAIL NUMBER
SHEET NUMBER
DIRECTION OF VIEW
DETAIL NUMBER
SHEET NUMBER

LOCAL FIRE AUTHORITY

-

CONSULTANTS

ARCHITECT
HY ARCHITECTS
4602 2ND STREET, SUITE #3
DAVIS, CA 95618
CONTACT: MICHAEL FENECH
ARCHITECT OF RECORD: KEN YAMAUCHI
PHONE: (530) 758-1270

FIRE SUPPRESSION SYSTEM
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3000 DANVILLE BLVD SUITE F-344
ALAMO, CA 94507
PHONE: (415) 677-1200

STRUCTURAL ENGINEER
BUEHLER ENGINEERING INC
600 Q ST #200
SACRAMENTO, CA 95811
PHONE: (916) 443-0303

ELECTRICAL ENGINEER
M. NEILS ENGINEERING
100 HOWE AVE #235N
SACRAMENTO, CA 95825
PHONE: (916) 923-4400

REGULATORY REQUIREMENTS

- PRISON DESIGN MUST COMPLY WITH ALL CALIFORNIA STATE AND FEDERAL REGULATIONS, AND REFERENCED CODES AND STANDARDS. IN ALL CASES, THE LATEST ADOPTED EDITION OF THE DOCUMENT APPLIES, UNLESS OTHERWISE DIRECTED.

SCOPE OF WORK

THE SCOPE OF THIS PROJECT INCLUDES THE REMOVAL AND REPLACEMENT OF A TOTAL OF 10 EXISTING ANSUL FIRE EXTINGUISHING SYSTEMS WITH NEW UL300 COMPLIANT FIRE SUPPRESSION SYSTEMS FOR THE KITCHEN EXHAUST HOODS IN MULTIPLE BUILDINGS AT PELICAN BAY STATE PRISON (PBSP), CRESCENT CITY, CA. INCLUDE AUTOMATIC POWER DISCONNECT TO ELECTRIC COOKING APPLIANCES WHERE NECESSARY. THE NEWLY INSTALLED FIRE SUPPRESSION SYSTEMS WILL INCLUDE CAPABILITY TO INTERFACE WITH AN EXISTING FIRE ALARM SYSTEM INSTALLED.THE SCOPE ALSO INCLUDES DECOMMISSIONING EXISTING KITCHEN EXHAUST HOODS AND ASSOCIATED PRIMARY FIRE EXTINGUISHING SYSTEMS AS REQUIRED AT TWO BUILDING LOCATIONS. THE REMOVAL OF CONDUIT OR PIPING SHALL BE SEALED WITH LISTED OR EQUIVALENT LIQUID TIGHT SEALING DEVICES. (NFPA 96 SECTION: 10.2.7.2) THE SCOPE ALSO INCLUDES THE REPAIR AND REFINISH OF EXISTING FINISHES. "FINAL SHOP DRAWINGS ARE TO BE PROVIDED AND REVIEWED BY THE FIRE MARSHAL PRIOR TO CONSTRUCTION"

APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023:
- 2022 BUILDING STANDARDS ADMIN. CODE, PART 1, TITLE 24 C.C.R.
- 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
- 2021 INTERNATIONAL BUILDING CODE AND 2019 CALIFORNIA AMENDMENTS
- 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
- 2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS
- 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
- 2021 UNIFORM MECHANICAL CODE AND CALIFORNIA AMENDMENTS
- 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
- 2021 UNIFORM PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS
- 2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
- 2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, C.C.R.
- 2021 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS
- 2022 CA GREEN BUILDING STANDARDS CODE (CAL GREEN), PART 11, TITLE 24, C.C.R.
- 2022 CALIFORNIA REFERENCE STANDARDS, PART 12, TITLE 24, C.C.R.
- TITLE 19 C.C.R. PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARDS:
- NFPA 17A STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEM, 2024 EDITION
- NFPA 72 STANDARD FOR NATIONAL FIRE ALARM AND SIGNALING CODE, 2022 EDITION
- NFPA 96 STANDARD FOR VENTILATION CONTROL AND FIRE PROTECTION OF COMMERCIAL COOKING OPERATIONS, 2024 EDITION
- NFPA 101 LIFE SAFETY CODE, 2024 EDITION

REFERENCE CODE SECTION FOR NFPA STANDARDS ARE IN 2022 CBC CHAPTER 35 OR 2022 CFC CHAPTER 80. SEE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

2010 AMERICANS WITH DISABILITIES ACT STANDARDS

THE ABOVE CODES AND REGULATIONS REFER TO THE LATEST EDITION OR REVISION IN FORCE ON THE DATE OF THE CONTRACT, UNLESS OTHERWISE STATED. NOTHING ON THE DRAWINGS IS TO BE CONSTRUED AS REQUIRING OR PERMITTING WORK THAT IS CONTRARY TO THE LISTED CODES AND REGULATIONS, OR OTHER LOCAL, STATE OR FEDERAL CODES OR REGULATIONS WHICH MAY BE APPLICABLE.

GENERAL NOTES

1. THE BUILDER SHALL VERIFY THAT THE EXISTING SYSTEM OR COMPONENTS IMPACTING THIS NEW WORK ARE ENABLED, OPERATIONAL AND FUNCTIONING PROPERLY BEFORE COMMENCING WITH NEW WORK. THE INSTITUTION IS RESPONSIBLE FOR MAINTAINING THE SYSTEM IN ORIGINAL WORKING CONDITION TO ACCOMMODATE THIS NEW WORK.
2. DETAILS MARKED TYPICAL SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY DETAILED OTHERWISE. WHERE NO DETAIL IS SHOWN CONSTRUCTION SHALL BE AS SHOWN FOR OTHER SIMILAR WORK.
3. THE DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE BUILDER SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND SAFETY OF THE WORKERS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT NOT BE LIMITED TO, BRACING, SHORING, FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC.
4. PROVIDE CONSTRUCTION BARRIERS TO PROTECT PERSONNEL.
5. REPAIR ALL EXISTING SURFACES DAMAGED TO ACCOMMODATE NEW CONSTRUCTION.
6. HAZARDOUS MATERIALS TO BE IDENTIFIED AND, IF REQUIRED, ABATED IN THE AREAS AFFECTED BY THIS CONSTRUCTION, PRIOR TO THE BUILDER BEGINNING HIS WORK. THE IDENTIFICATION AND ABATEMENT TO BE PERFORMED BY THE ENVIRONMENTAL COMPLIANCE UNIT; CONTACT GREGOR LARABEE AT (916) 255-2162.
7. DO NOT SCALE DRAWINGS.
8. APPLICABLE REGULATIONS: CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION (CDCR) DESIGN CRITERIA GUIDELINES (DCG).
9. PROVIDE SAFEGUARDS FOR CONSTRUCTION, ALTERATION AND DEMOLITION OPERATIONS TO PROVIDE REASONABLE SAFETY TO LIFE AND PROPERTY FROM FIRE DURING SUCH OPERATIONS PER COMPLIANCE WITH "FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION" IN ACCORDANCE WITH 2016 CALIFORNIA FIRE CODE (CFC) CHAPTER 33. TITLE 19, DIVISION 1, CALIFORNIA CODE OF REGULATIONS (CCR).
10. A BULK ASBESTOS AND LEAD-BASED PAINT SURVEY HAS BEEN PERFORMED. SEE REPORT AS PART OF THE CONSTRUCTION DOCUMENTS. SEE SPECIFICATIONS FOR ASBESTOS & LEAD ABATEMENT AND TRANSPORTATION AND DISPOSAL OF HAZARDOUS MATERIALS INFORMATION.
11. INSTRUCTIONS FOR MANUALLY OPERATING THE FIRE EXTINGUISHING SYSTEM SHALL BE POSTED CONSPICUOUSLY IN THE KITCHEN AND SHALL BE REVIEWED WITH EMPLOYEES BY THE MANAGEMENT PER TITLE 24 CMC 514.1.3
12. A PLACARD SHALL BE CONSPICUOUSLY PLACED NEAR THE TYPE K FIRE EXTINGUISHERS THAT STATES THAT THE FIRE-PROTECTION SYSTEM SHALL BE ACTIVATED PRIOR TO USING THE FIRE EXTINGUISHER PER TITLE 24 CMC 513.2.1.

CSFM DEFERRED SUBMITTAL

NO DEFERRED SUBMITTAL

- **NONE**

2/6/2024 6:01 PM

NONSTRUCTURAL PROVISIONS / BUILDING CODE ANALYSIS

BUILDING A01, ADMINISTRATION KITCHEN — GOVMOTUS NUMBER # 23-N-5898-CA

1. OCCUPANCY GROUPS AND VARIED USES	B	6. AREA OF PROJECT IN SQUARE FEET	679 SF	11. FIRE SPRINKLERS (TYPE/FULL/PARTIAL)	NONE	16. OCCUPANT LOAD FOR EACH FLOOR	183 (NO CHANGE)
2. BUILDING CONSTRUCTION TYPE	TYPE V-B	7. SEPARATED, NON-SEPARATED, ACCESSORY USE	NON-SEPARATED	12. FIRE ALARM (TYPE)	YES (AUTOMATIC)	17. YEAR BUILDING WAS CONSTRUCTED	1988
3. NUMBER OF STORIES	ONE STORY	8. ALLOWABLE AREA	36,000	13. OTHER FIRE PROTECTION SYSTEM (TYPE)	KITCHEN HOOD FIRE SUPPRESSION SYSTEM, FIRE EXTINGUISHER	18. HIGH FIRE HAZARD ZONE (YES/NO)	NO
4. ACTUAL BUILDING HEIGHT	15'-4"	9. AREA INCREASE	NO	14. SMOKE CONTROL SYSTEM (YES/NO)	NO	19. SEISMIC JOINTS AND LOCATION (YES/NO)	NO
5. BUILDING AREA IN SQUARE FEET	27,650 SF	10. HEIGHT INCREASE	NO	15. OCCUPANT LOAD (ENTIRE BLDG/ EA. FLR.)	183	20. EMERGENCY RESPONDER RADIO COVERAGE (YES/NO)	YES

BUILDING C01, CENTRAL KITCHEN — GOVMOTUS # 23-N-5899-CA

1. OCCUPANCY GROUPS AND VARIED USES	I-3	6. AREA OF PROJECT IN SQUARE FEET	9,343 SF	11. FIRE SPRINKLERS (TYPE/FULL/PARTIAL)	FULLY SPRINKLERED	16. OCCUPANT LOAD FOR EACH FLOOR	102 (NO CHANGE)
2. BUILDING CONSTRUCTION TYPE	TYPE I-B	7. SEPARATED, NON-SEPARATED, ACCESSORY USE	NON-SEPARATED	12. FIRE ALARM (TYPE)	YES (AUTOMATIC)	17. YEAR BUILDING WAS CONSTRUCTED	1988
3. NUMBER OF STORIES	ONE STORY	8. ALLOWABLE AREA	UNLIMITED	13. OTHER FIRE PROTECTION SYSTEM (TYPE)	KITCHEN HOOD FIRE SUPPRESSION SYSTEM, FIRE EXTINGUISHER	18. HIGH FIRE HAZARD ZONE (YES/NO)	NO
4. ACTUAL BUILDING HEIGHT	18'-6"	9. AREA INCREASE	NO	14. SMOKE CONTROL SYSTEM (YES/NO)	NO	19. SEISMIC JOINTS AND LOCATION (YES/NO)	NO
5. BUILDING AREA IN SQUARE FEET	20,370 SF	10. HEIGHT INCREASE	NO	15. OCCUPANT LOAD (ENTIRE BLDG/ EA. FLR.)	102	20. EMERGENCY RESPONDER RADIO COVERAGE (YES/NO)	YES

BUILDING C02, PIA KITCHEN — GOVMOTUS # 23-N-5901-CA

1. OCCUPANCY GROUPS AND VARIED USES	I-3	6. AREA OF PROJECT IN SQUARE FEET	1,108 SF	11. FIRE SPRINKLERS (TYPE/FULL/PARTIAL)	FULLY SPRINKLERED	16. OCCUPANT LOAD FOR EACH FLOOR	30 (NO CHANGE)
2. BUILDING CONSTRUCTION TYPE	TYPE I-B	7. SEPARATED, NON-SEPARATED, ACCESSORY USE	NON-SEPARATED	12. FIRE ALARM (TYPE)	YES (AUTOMATIC)	17. YEAR BUILDING WAS CONSTRUCTED	1988
3. NUMBER OF STORIES	ONE STORY	8. ALLOWABLE AREA	UNLIMITED	13. OTHER FIRE PROTECTION SYSTEM (TYPE)	KITCHEN HOOD FIRE SUPPRESSION SYSTEM, FIRE EXTINGUISHER	18. HIGH FIRE HAZARD ZONE (YES/NO)	NO
4. ACTUAL BUILDING HEIGHT	20'-0"	9. AREA INCREASE	NO	14. SMOKE CONTROL SYSTEM (YES/NO)	NO	19. SEISMIC JOINTS AND LOCATION (YES/NO)	NO
5. BUILDING AREA IN SQUARE FEET	6000 SF	10. HEIGHT INCREASE	NO	15. OCCUPANT LOAD (ENTIRE BLDG/ EA. FLR.)	30	20. EMERGENCY RESPONDER RADIO COVERAGE (YES/NO)	YES

BUILDING C04, SHU KITCHEN — GOVMOTUS # 23-N-5903-CA

1. OCCUPANCY GROUPS AND VARIED USES	I-3	6. AREA OF PROJECT IN SQUARE FEET	3,125 SF	11. FIRE SPRINKLERS (TYPE/FULL/PARTIAL)	FULLY SPRINKLERED	16. OCCUPANT LOAD FOR EACH FLOOR	3528 (NO CHANGE)
2. BUILDING CONSTRUCTION TYPE	TYPE I-A	7. SEPARATED, NON-SEPARATED, ACCESSORY USE	NON-SEPARATED	12. FIRE ALARM (TYPE)	YES (AUTOMATIC)	17. YEAR BUILDING WAS CONSTRUCTED	1988
3. NUMBER OF STORIES	ONE STORIES	8. ALLOWABLE AREA	UNLIMITED	13. OTHER FIRE PROTECTION SYSTEM (TYPE)	KITCHEN HOOD FIRE SUPPRESSION SYSTEM, FIRE EXTINGUISHER	18. HIGH FIRE HAZARD ZONE (YES/NO)	NO
4. ACTUAL BUILDING HEIGHT	20'-0"	9. AREA INCREASE	NO	14. SMOKE CONTROL SYSTEM (YES/NO)	YES	19. SEISMIC JOINTS AND LOCATION (YES/NO)	YES
5. BUILDING AREA IN SQUARE FEET	414,744 SF	10. HEIGHT INCREASE	NO	15. OCCUPANT LOAD (ENTIRE BLDG/ EA. FLR.)	3528	20. EMERGENCY RESPONDER RADIO COVERAGE (YES/NO)	YES

BUILDING C05, LEVEL 1 KITCHEN — GOVMOTUS # 23-N-5904-CA

1. OCCUPANCY GROUPS AND VARIED USES	I-3	6. AREA OF PROJECT IN SQUARE FEET	1,256 SF	11. FIRE SPRINKLERS (TYPE/FULL/PARTIAL)	FULLY SPRINKLERED	16. OCCUPANT LOAD FOR EACH FLOOR	58 (NO CHANGE)
2. BUILDING CONSTRUCTION TYPE	TYPE I-B	7. SEPARATED, NON-SEPARATED, ACCESSORY USE	NON-SEPARATED	12. FIRE ALARM (TYPE)	YES (AUTOMATIC)	17. YEAR BUILDING WAS CONSTRUCTED	1988
3. NUMBER OF STORIES	ONE STORY	8. ALLOWABLE AREA	EXISTING	13. OTHER FIRE PROTECTION SYSTEM (TYPE)	KITCHEN HOOD FIRE SUPPRESSION SYSTEM, FIRE EXTINGUISHER	18. HIGH FIRE HAZARD ZONE (YES/NO)	NO
4. ACTUAL BUILDING HEIGHT	27'-0"	9. AREA INCREASE	NO	14. SMOKE CONTROL SYSTEM (YES/NO)	NO	19. SEISMIC JOINTS AND LOCATION (YES/NO)	NO
5. BUILDING AREA IN SQUARE FEET	11,623 SF	10. HEIGHT INCREASE	NO	15. OCCUPANT LOAD (ENTIRE BLDG/ EA. FLR.)	58	20. EMERGENCY RESPONDER RADIO COVERAGE (YES/NO)	YES

BUILDING H02, A2 KITCHEN — GOVMOTUS # 23-N-5905-CA

1. OCCUPANCY GROUPS AND VARIED USES	I-3	6. AREA OF PROJECT IN SQUARE FEET	580 SF	11. FIRE SPRINKLERS (TYPE/FULL/PARTIAL)	NO	16. OCCUPANT LOAD FOR EACH FLOOR	224 (NO CHANGE)
2. BUILDING CONSTRUCTION TYPE	TYPE I-A	7. SEPARATED, NON-SEPARATED, ACCESSORY USE	NON-SEPARATED	12. FIRE ALARM (TYPE)	YES (AUTOMATIC)	17. YEAR BUILDING WAS CONSTRUCTED	1988
3. NUMBER OF STORIES	ONE (1) WITH A MEZZANINE	8. ALLOWABLE AREA	UNLIMITED	13. OTHER FIRE PROTECTION SYSTEM (TYPE)	KITCHEN HOOD FIRE SUPPRESSION SYSTEM, FIRE EXTINGUISHER AND FIRE HOSE	18. HIGH FIRE HAZARD ZONE (YES/NO)	NO
4. ACTUAL BUILDING HEIGHT	24'-4"	9. AREA INCREASE	NO	14. SMOKE CONTROL SYSTEM (YES/NO)	NO	19. SEISMIC JOINTS AND LOCATION (YES/NO)	NO
5. BUILDING AREA IN SQUARE FEET	46,646 SF	10. HEIGHT INCREASE	NO	15. OCCUPANT LOAD (ENTIRE BLDG/ EA. FLR.)	224	20. EMERGENCY RESPONDER RADIO COVERAGE (YES/NO)	YES

BUILDING H03, A3 KITCHEN — GOVMOTUS # 23-N-5906-CA

1. OCCUPANCY GROUPS AND VARIED USES	I-3	6. AREA OF PROJECT IN SQUARE FEET	580 SF	11. FIRE SPRINKLERS (TYPE/FULL/PARTIAL)	NO	16. OCCUPANT LOAD FOR EACH FLOOR	224 (NO CHANGE)
2. BUILDING CONSTRUCTION TYPE	TYPE I-A	7. SEPARATED, NON-SEPARATED, ACCESSORY USE	NON-SEPARATED	12. FIRE ALARM (TYPE)	YES (AUTOMATIC)	17. YEAR BUILDING WAS CONSTRUCTED	1988
3. NUMBER OF STORIES	ONE (1) WITH A MEZZANINE	8. ALLOWABLE AREA	UNLIMITED	13. OTHER FIRE PROTECTION SYSTEM (TYPE)	KITCHEN HOOD FIRE SUPPRESSION SYSTEM, FIRE EXTINGUISHER AND FIRE HOSE	18. HIGH FIRE HAZARD ZONE (YES/NO)	NO
4. ACTUAL BUILDING HEIGHT	24'-4"	9. AREA INCREASE	NO	14. SMOKE CONTROL SYSTEM (YES/NO)	NO	19. SEISMIC JOINTS AND LOCATION (YES/NO)	NO
5. BUILDING AREA IN SQUARE FEET	46,646 SF	10. HEIGHT INCREASE	NO	15. OCCUPANT LOAD (ENTIRE BLDG/ EA. FLR.)	224	20. EMERGENCY RESPONDER RADIO COVERAGE (YES/NO)	YES

BUILDING H04, A4 KITCHEN — GOVMOTUS # 23-N-5907-CA

1. OCCUPANCY GROUPS AND VARIED USES	I-3	6. AREA OF PROJECT IN SQUARE FEET	580 SF	11. FIRE SPRINKLERS (TYPE/FULL/PARTIAL)	NO	16. OCCUPANT LOAD FOR EACH FLOOR	224 (NO CHANGE)
2. BUILDING CONSTRUCTION TYPE	TYPE I-A	7. SEPARATED, NON-SEPARATED, ACCESSORY USE	NON-SEPARATED	12. FIRE ALARM (TYPE)	YES (AUTOMATIC)	17. YEAR BUILDING WAS CONSTRUCTED	1988
3. NUMBER OF STORIES	ONE (1) WITH A MEZZANINE	8. ALLOWABLE AREA	UNLIMITED	13. OTHER FIRE PROTECTION SYSTEM (TYPE)	KITCHEN HOOD FIRE SUPPRESSION SYSTEM, FIRE EXTINGUISHER AND FIRE HOSE	18. HIGH FIRE HAZARD ZONE (YES/NO)	NO
4. ACTUAL BUILDING HEIGHT	24'-4"	9. AREA INCREASE	NO	14. SMOKE CONTROL SYSTEM (YES/NO)	NO	19. SEISMIC JOINTS AND LOCATION (YES/NO)	NO
5. BUILDING AREA IN SQUARE FEET	46,646 SF	10. HEIGHT INCREASE	NO	15. OCCUPANT LOAD (ENTIRE BLDG/ EA. FLR.)	224	20. EMERGENCY RESPONDER RADIO COVERAGE (YES/NO)	YES

BUILDING H05, B4 KITCHEN — GOVMOTUS # 23-N-5908-CA

1. OCCUPANCY GROUPS AND VARIED USES	I-3	6. AREA OF PROJECT IN SQUARE FEET	580 SF	11. FIRE SPRINKLERS (TYPE/FULL/PARTIAL)	NO	16. OCCUPANT LOAD FOR EACH FLOOR	224 (NO CHANGE)
2. BUILDING CONSTRUCTION TYPE	TYPE I-A	7. SEPARATED, NON-SEPARATED, ACCESSORY USE	NON-SEPARATED	12. FIRE ALARM (TYPE)	YES (AUTOMATIC)	17. YEAR BUILDING WAS CONSTRUCTED	1988
3. NUMBER OF STORIES	ONE (1) WITH A MEZZANINE	8. ALLOWABLE AREA	UNLIMITED	13. OTHER FIRE PROTECTION SYSTEM (TYPE)	KITCHEN HOOD FIRE SUPPRESSION SYSTEM, FIRE EXTINGUISHER AND FIRE HOSE	18. HIGH FIRE HAZARD ZONE (YES/NO)	NO
4. ACTUAL BUILDING HEIGHT	24'-4"	9. AREA INCREASE	NO	14. SMOKE CONTROL SYSTEM (YES/NO)	NO	19. SEISMIC JOINTS AND LOCATION (YES/NO)	NO
5. BUILDING AREA IN SQUARE FEET	46,646 SF	10. HEIGHT INCREASE	NO	15. OCCUPANT LOAD (ENTIRE BLDG/ EA. FLR.)	224	20. EMERGENCY RESPONDER RADIO COVERAGE (YES/NO)	YES

BUILDING H06, B3 KITCHEN — GOVMOTUS # 23-N-5909-CA

1. OCCUPANCY GROUPS AND VARIED USES	I-3	6. AREA OF PROJECT IN SQUARE FEET	580 SF	11. FIRE SPRINKLERS (TYPE/FULL/PARTIAL)	NO	16. OCCUPANT LOAD FOR EACH FLOOR	224 (NO CHANGE)
2. BUILDING CONSTRUCTION TYPE	TYPE I-A	7. SEPARATED, NON-SEPARATED, ACCESSORY USE	NON-SEPARATED	12. FIRE ALARM (TYPE)	YES (AUTOMATIC)	17. YEAR BUILDING WAS CONSTRUCTED	1988
3. NUMBER OF STORIES	ONE (1) WITH A MEZZANINE	8. ALLOWABLE AREA	UNLIMITED	13. OTHER FIRE PROTECTION SYSTEM (TYPE)	KITCHEN HOOD FIRE SUPPRESSION SYSTEM, FIRE EXTINGUISHER AND FIRE HOSE	18. HIGH FIRE HAZARD ZONE (YES/NO)	NO
4. ACTUAL BUILDING HEIGHT	24'-4"	9. AREA INCREASE	NO	14. SMOKE CONTROL SYSTEM (YES/NO)	NO	19. SEISMIC JOINTS AND LOCATION (YES/NO)	NO
5. BUILDING AREA IN SQUARE FEET	46,646 SF	10. HEIGHT INCREASE	NO	15. OCCUPANT LOAD (ENTIRE BLDG/ EA. FLR.)	224	20. EMERGENCY RESPONDER RADIO COVERAGE (YES/NO)	YES

BUILDING H07, B2 KITCHEN — GOVMOTUS # 23-N-5910-CA

1. OCCUPANCY GROUPS AND VARIED USES	I-3	6. AREA OF PROJECT IN SQUARE FEET	580 SF	11. FIRE SPRINKLERS (TYPE/FULL/PARTIAL)	NO	16. OCCUPANT LOAD FOR EACH FLOOR	224 (NO CHANGE)
2. BUILDING CONSTRUCTION TYPE	TYPE I-A	7. SEPARATED, NON-SEPARATED, ACCESSORY USE	NON-SEPARATED	12. FIRE ALARM (TYPE)	YES (AUTOMATIC)	17. YEAR BUILDING WAS CONSTRUCTED	1988
3. NUMBER OF STORIES	ONE (1) WITH A MEZZANINE	8. ALLOWABLE AREA	EXISTING	13. OTHER FIRE PROTECTION SYSTEM (TYPE)	KITCHEN HOOD FIRE SUPPRESSION SYSTEM, FIRE EXTINGUISHER	18. HIGH FIRE HAZARD ZONE (YES/NO)	NO
4. ACTUAL BUILDING HEIGHT	24'-4"	9. AREA INCREASE	NO	14. SMOKE CONTROL SYSTEM (YES/NO)	NO	19. SEISMIC JOINTS AND LOCATION (YES/NO)	NO
5. BUILDING AREA IN SQUARE FEET	46,646 SF	10. HEIGHT INCREASE	NO	15. OCCUPANT LOAD (ENTIRE BLDG/ EA. FLR.)	224	20. EMERGENCY RESPONDER RADIO COVERAGE (YES/NO)	YES

CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

11/9/2023 4:28 PM

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
11/04/24
23-5898
Approval of this plan does not authorize or approve any omission or deviation from applicable requirements. Plan approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

REV.	DATE:	DESCRIPTION

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS
Project No: 5892.00

HIBSER YAMAUCHI Architects, Inc.
4602 2nd Street, Suite #3
Davis, CA 95618
530.758.1270 office
530.758.4789 fax

LICENSED ARCHITECT
KEN YAMAUCHI
C-26566
02-28-2025
RENEWAL DATE
STATE OF CALIFORNIA

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

SHEET TITLE: BUILDING DATA

CDCR JOB Nos.: 20-034

SHEET NUMBER
T0.2
V3

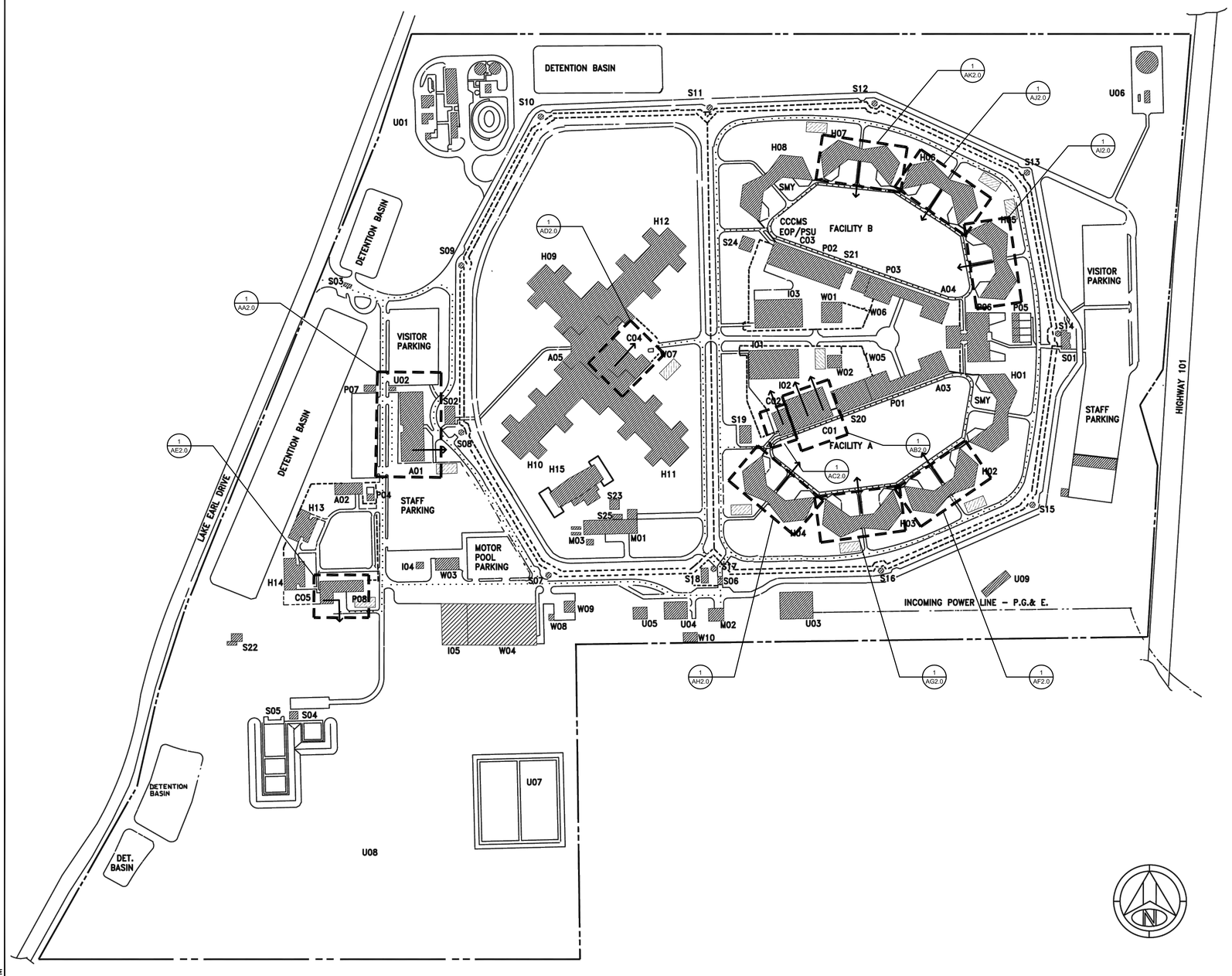
MATERIALS LAYDOWN AREA-
(INSTALL TEMPORARY SECURITY FENCE
20 FT MIN AWAY FROM ANY BUILDING)

FIRE TRUCK ACCESS

EGRESS ROUTE DIRECTION TOWARDS SAFE
DISPERSAL AREA

SITE NOTES

1. LAY DOWN AREAS FOR REMOVED EQUIPMENT AND CONSTRUCTION WASTE COLLECTION TO BE DETERMINED BY THE CDCR INSTITUTION PRIOR TO CONSTRUCTION. THESE AREA(S) SHALL NOT IMPACT, RESTRICT, OR PRECLUDE FIRE ACCESS OR IMPACT FIRE SAFETY OF THE CONSTRUCTION SITE OR CDCR INSTITUTION. THERE SHALL BE NO OBSTRUCTION TO FIRE APPLIANCES, NOR SHALL THESE AREAS IMPACT SITE EGRESS.
2. BUILDING WILL BE OCCUPIED DURING DEMOLITION AND CONSTRUCTION. EGRESS/INGRESS SHALL REMAIN FREE OF DEBRIS AND OBSTRUCTION THROUGH OUT DEMOLITION AND CONSTRUCTION.
3. FIRE ACCESS AND FIRE APPARATUS ROAD WAY SHALL BE MAINTAINED FREE OF OBSTRUCTION AT ALL TIMES.



PELICAN BAY STATE PRISON
SITE PLAN & FACILITY MAP

LEGEND

A01	CENTRAL ADMINISTRATION
A02	PROGRAM SERVICES – LEVEL I
A03	PROGRAM SERVICES FACILITY A
A04	PROGRAM SERVICES FACILITY B
A05	PROGRAM SERVICES – SHU
C01	CENTRAL KITCHEN
C02	FOOD SERVICES SATELLITE FACILITY A
C03	FOOD SERVICES SATELLITE FACILITY B
C04	FOOD SERVICES – SHU C
C05	FOOD SERVICES – LEVEL I
H01/H04	HOUSING UNIT A–1/A–4 LEVEL IV
H05/H08	HOUSING UNIT B–1/B–4 LEVEL IV
H09/H12	HOUSING UNIT SHU C–1/C–4
H13/H14	HOUSING UNIT 1/2
H15	AD–SEG HOUSING UNIT
I01/I02	P.I.A. CENTRAL LAUNDRY
I03	P.I.A. SHOE & BOOT/MAINTENANCE/ADMIN.
I04	P.I.A./GENERAL VOLATILE STORAGE
I05	P.I.A. WAREHOUSE
M01	CENTRAL HEALTH
M02	FIREHOUSE
M03	CTC WAREHOUSE
P01	VOCATIONAL EDUCATION FACILITY A
P02	VOCATIONAL EDUCATION FACILITY B
P03	CENTRAL LIBRARY/ARTS–IN–CORRECTIONS
P04	FAMILY VISITING – LEVEL I
P05	FAMILY VISITING FACILITIES A 7 B
P06	BPT/VISITING/CENTRAL CONTROL
P07	VISITORS CENTER
P08	PROGRAM SERVICES – LEVEL I
S01/S02	VISITOR PROCESSING FACILITIES A,B,C
S03	GATEHOUSE
S04	FIRING RANGE CLASSROOM
S05	FIRING RANGE PLATFORM
S06	VEHICLE SALLYPORT
S07/S17	GUARD TOWERS #1–11
S18	ARMORY/LOCKSHOP
S19	RECEIVING & RELEASE
S20	WORKCHANGE – FACILITY A
S21	WORKCHANGE – FACILITY B
S22	IST TRAILER
S23	MPWS TRAILER
S24	PSU TRAILER
S25	TELEMED MODULAR BUILDING
U01	WASTEWATER TREATMENT PLANT
U02	P.A.B.X.
U03	ELECTRICAL SUBSTATION
U04	CENTRAL PLANT
U05	EMERGENCY GENERATOR/SWITCHGEAR BUILDING
U06	WATER STORAGE
U07	SLUDGE STORAGE
U08	SLUDGE INJECTION AREA
U09	POLE BARN
W01	CENTRAL BLDG. MAINT. – FACILITY B
W02	SATELLITE BLDG. MAINT. – FACILITY A
W03	VEHICLE/BLDG. MAINT. – LEVEL I
W04	GENERAL WAREHOUSE
W05	HAZARDOUS WASTE STORAGE – FACILITY A
W06	HAZARDOUS WASTE STORAGE – FACILITY B
W07	HAZARDOUS WASTE STORAGE – SHU FACILITY C
W08	HAZARDOUS WASTE STORAGE – LEVEL I
W09	R.A.S.P. BLDG.
W10	PELLET CONVEYANCE SYSTEM

200 0 200 400 600 800
SCALE IN FEET

OFFICE OF THE STATE FIRE MARSHAL
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11/04/24
23-5898
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LICENSED ARCHITECT KENT YAMAUCHI C-26566 02-28-2025 RENEWAL DATE STATE OF CALIFORNIA

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REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

SHEET TITLE: SITE PLAN

CDCR 20–034
APP. Nos.:

SHEET NUMBER
A1.0
V3

CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

1 SITE PLAN
N.T.S.

7/2/2024 1:38 PM

UNAUTHORIZED CHANGES & USES: M. Neils Engineering, Inc. preparing these plans will not be responsible for, or liable for unauthorized changes to or uses to these plans. All changes to these plans must be in writing and must be approved by M. Neils Engineering, Inc.

DEMOLITION GENERAL NOTES

1. INFORMATION SHOWN RELATIVE TO EXISTING CONDITIONS IS BASED UPON AVAILABLE RECORDS AND DATA. THEREFORE, IT SHALL BE REGARDED AS AN APPROXIMATION ONLY. CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. PRIOR TO SUBMITTING BID AND/OR BEFORE START OF ANY ELECTRICAL WORK, INSPECT ALL EXISTING LOCATIONS AND CONDITIONS AND ASCERTAIN WORK REQUIRED TO CLEAR PROJECT AREA OF ALL EXISTING ELECTRICAL ITEMS NOT BEING REUSED OR EXISTING TO REMAIN AS IS. REPORT ALL DISCREPANCIES AND COORDINATE ALL DEMOLITION WORK WITH THE OWNER'S REPRESENTATIVE. MAINTAIN SERVICE TO EXISTING ELECTRICAL EQUIPMENT IN AREAS ADJACENT TO REMODEL AREA, UNLESS OTHERWISE NOTED.
2. PROTECT ALL EXISTING ELECTRICAL EQUIPMENT NOT REQUIRED TO BE DEMOLISHED UNLESS OTHERWISE NOTED. DELIVER ALL EXISTING ELECTRICAL EQUIPMENT IN REMODELED AREAS, THAT ARE REMOVED AND NOT REUSED ELSEWHERE, AND ARE DEEMED TO BE SALVAGEABLE IN THE JUDGMENT OF THE CONTRACTOR AND OWNER'S REPRESENTATIVE, TO THE OWNER. DELIVER ALL SALVAGED ELECTRICAL EQUIPMENT AND OTHER ITEMS TO A LOCATION DESIGNATED BY THE OWNER'S REPRESENTATIVE. REMOVE FROM SITE, ALL OTHER ELECTRICAL EQUIPMENT, HARDWARE, AND OTHER ITEMS THAT ARE DEEMED UNSALVAGEABLE BY CONTRACTOR AND THE OWNER'S REPRESENTATIVE.
3. CUT, PATCH AND MATCH IN ALL AREAS AFFECTED BY REMOVAL OF ELECTRICAL EQUIPMENT AND DEVICES.
4. CAUSE AS LITTLE INTERFERENCE OR INTERRUPTION OF EXISTING UTILITIES AND SERVICES AS POSSIBLE. SCHEDULE ANY POWER OR OTHER UTILITY SHUTDOWN WITH THE OWNER'S REPRESENTATIVE. SHUTDOWNS WHICH MAY BE REQUIRED SHALL BE PRESENTED IN WRITING TO THE OWNER'S REPRESENTATIVE FOR APPROVAL TWO WEEKS PRIOR TO COMMENCEMENT OF WORK. SHUTDOWN WORK SHALL BE PERFORMED ON OVERTIME HOURS IF SO DIRECTED BY OWNER'S REPRESENTATIVE.
5. COORDINATE WITH OTHER TRADES AND PROMPTLY TRANSMIT ALL INFORMATION REQUIRED BY THEM. COORDINATE THE SEQUENCE OF DEMOLITION WITH OTHER TRADES TO ENSURE THAT ALL WORK PROCEEDS WITH A MINIMUM OF INTERFERENCE AND DELAY.
6. RELOCATE ALL CONDUITS THAT ARE TO REMAIN IN SERVICE WHICH ARE IN A LOCATION TO CONFLICT WITH NEW WORK.
7. WHEREVER EXISTING ELECTRICAL DEVICES, PANELS, CONDUITS, CABLES, AND OTHER ITEMS, CONFLICT WITH REMODEL WORK, WHETHER SHOWN OR NOT, RELOCATE THESE ITEMS TO COORDINATE WITH NEW CONSTRUCTION.
8. ALL EXISTING ABOVE ROOF CONDUIT AND WIRING MUST BE REPLACED WITH NEW - WIRE SIZE, QUANTITY AND TYPE SHALL MATCH EXISTING. NEW CONTROL WIRING TO HVAC EQUIPMENT MAY ONLY BE INSTALLED FOR THE RUN FROM THE EQUIPMENT CONTROL PANEL TO THE NEAREST EXISTING TERMINATION POINT OR SPLICE LOCATION. INSTALL EMT WITH COMPRESSION FITTINGS AND LIQUID-TIGHT FLEXIBLE METAL CONDUIT TERMINATION AT THE MECHANICAL EQUIPMENT.
9. PROVIDE PROTECTIVE COVERING OVER EXISTING EQUIPMENT WHEN INSTALLING ALL NEW WORK.
10. ASBESTOS REMOVAL: IN THE EVENT ASBESTOS IS FOUND TO BE PRESENT IN AREAS CONFLICTING WITH ELECTRICAL WORK, BEFORE CONTINUATION OF WORK IN THOSE AREAS, NOTIFY THE OWNER'S REPRESENTATIVE FOR THE REMOVAL OF SUCH HAZARDOUS MATERIAL BY A CERTIFIED ASBESTOS CONTRACTOR.
11. ALL CONTRACTORS PERFORMING WORK ON THIS PROJECT SHALL COMPLY WITH THE REQUIREMENTS OF CFC S.901.7, SPECIFICALLY 901.7.4, 901.7.6, CH. 11, CH. 33, AND NFPA 241.

ABBREVIATIONS

A	AMPERES	KVA	KILO VOLT AMPERE
AC	ALTERNATING CURRENT	KW	KILO WATT
A.F.F.	ABOVE FINISHED FLOOR	KWH	KILO WATT HOUR
A.I.C.	AMPERE INTERRUPTING CAPACITY	LT.	LIGHT
AMP	AMPERE	LV	LOW VOLTAGE
AWG	AMERICAN WIRE GAUGE	MAX.	MAXIMUM
BKR	BREAKER	MDF	MAIN DISTRIBUTION FRAME
C.	CONDUIT	MFR.	MANUFACTURER
C.B.	CIRCUIT BREAKER	MIN.	MINIMUM
CD	CANDELA	MTD.	MOUNTED
CKT	CIRCUIT	N	NEUTRAL
C.O.	CONDUIT ONLY, WITH PULL WIRE	(N)	NEW
C.T.	CURRENT TRANSFORMER	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
DC	DIRECT CURRENT	N.I.C.	NOT IN CONTRACT
(E)	EXISTING	NL	NIGHT LIGHT
EL	EVENING LIGHT	NM	NON-METALLIC CABLE
EM	EMERGENCY	PFB	PROVISIONS FOR FUTURE CIRCUIT BREAKER
(ER)	EXISTING RELOCATED	PH	PHASE
EMT	ELECTRICAL METALLIC CONDUIT	(R)	REMOVE
(F)	FUTURE	(RE)	RELOCATE EXISTING
FACP	FIRE ALARM CONTROL PANEL	RCPT.	RECEPTACLE
FAPS	FIRE ALARM POWER SUPPLY	S.M.S	SHEET METAL SCREW
FATC	FIRE ALARM TERMINAL CABINET	SWBD	SWITCHBOARD
FE/FEC	FIRE EXTINGUISHER/FIRE EXTINGUISHER CABINET. REFER TO ARCHITECTURAL DRAWINGS FOR FE TYPE	SYS	SYSTEM
		TV	TELEVISION
GA.	GAUGE	TYP.	TYPICAL
GND	GROUND	UG	UNDERGROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	UL	UNDERWRITERS LABORATORY
HP	HORSEPOWER	V	VOLT
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	VA	VOLT-AMPERES
		VIF	VERIFY IN FIELD
HZ.	HERTZ (CYCLES/SEC)	W	WIRE, WATT
Isc	SHORT CIRCUIT AMPERES	WP	WEATHER PROTECTED
ISO	ISOLATED	WR	WEATHER RESISTANT
K	THOUSAND	XFMR	TRANSFORMER
KV	KILO VOLT		

ELECTRICAL SYMBOL LIST

- $^{a\,b}_{K} — SWITCH, +45" A.F.F. - "a,b" LETTER DENOTES MULTI-SWITCH FUNCTION, TYPICAL FOR ALL SWITCHES, MOTION SENSORS AND DAYLIGHT SENSORS UNLESS NOTED OTHERWISE. "K" DENOTES SINGLE POLE TOGGLE SWITCH.
- (J) — JUNCTION BOX - SIZE AS REQUIRED BY CODE
- DUPLEX CONVENIENCE OUTLET - NEMA 5-20R. TYPICAL FOR ALL CONVENIENCE OUTLETS, UNLESS NOTED OTHERWISE.
- GFCI DUPLEX CONVENIENCE OUTLET - NEMA 5-20R
- SPECIAL RECEPTACLE AS SHOWN ON PLANS
- CONDUIT RUN CONCEALED IN CEILINGS OR WALLS. NUMBER OF HASH MARKS DENOTES QUANTITY OF WIRES. CURVED HASH MARK DENOTES QUANTITY OF #12 GREEN GROUND WIRES. CONDUCTORS OTHER THAN #12 ARE INDICATED ON PLANS. NO HASH MARKS DENOTES 2 #12 AWG AND 1 #12 GREEN GROUND IN 1/2" CONDUIT. TYPICAL FOR ALL CONDUITS.
- FLEXIBLE CONDUIT CONCEALED. NUMBER OF HASH MARKS DENOTES QUANTITY OF WIRES. CURVED HASH MARK DENOTES QUANTITY OF #12 GREEN GROUND WIRES. CONDUCTORS OTHER THAN #12 ARE INDICATED ON PLANS. NO HASH MARKS DENOTES 2 #12 AWG AND 1 #12 GREEN GROUND IN 1/2" MINIMUM DIAMETER CONDUIT.
- CONDUIT RUN UNDERFLOOR OR UNDERGROUND MINIMUM 1" DIAMETER.
- CONDUIT HOMERUN TO PANELBOARD, SWITCHBOARD OR TERMINAL CABINET
- CONDUIT TURNED AND RISED UP
- CONDUIT TURNED AND DROPPED DOWN
- CONDUIT WITH CAP
- CONDUIT STUB WITH INSULATED BUSHING
- EXISTING CONDUIT AND WIRING
- EXISTING CONDUIT TO BE REMOVED OR ABANDONED, REMOVE WIRES. COORDINATE WITH OWNER.
- PANELBOARD - SURFACE MOUNTED
- PANELBOARD - FLUSH MOUNTED
- EXISTING PANELBOARD - SURFACE MOUNTED
- EXISTING PANELBOARD - FLUSH MOUNTED
- TERMINAL CABINET
- SWITCHBOARD, DISTRIBUTION PANEL, OR MOTOR CONTROL CENTER
- EQUIPMENT DISCONNECT SWITCH - EXTERNALLY OPERATED, NON-FUSIBLE
- COMBINATION MOTOR STARTER WITH CIRCUIT BREAKER DISCONNECT - EXTERNALLY OPERATED
- (1) — DRAWING SHEET NUMBERED NOTE DESIGNATION - APPLIES TO NUMBERED NOTE ON SAME SHEET
- (1 / E-1) — DRAWING PLAN OR DETAIL DESIGNATION - "1" OR "A" DENOTES PLAN OR DETAIL NUMBER, "E-1" DENOTES SHEET NUMBER
- FIRE ALARM MANUAL PULL STATION, +45" A.F.F. UNLESS NOTED OTHERWISE

SYMBOL LIST NOTES:

1. EXISTING ELECTRICAL EQUIPMENT, OUTLETS, AND DEVICES ARE SHOWN THE SAME AS NEW, EXCEPT LIGHTLY AND ACCOMPANIED BY (E). SUCH ELECTRICAL EQUIPMENT, OUTLETS, AND DEVICES ARE TO REMAIN AS IS, UNLESS OTHERWISE NOTED ON PLAN OR SPECIFICATION.
2. ALL CONDUIT USED ON THIS PROJECT SHALL BE RIGID STEEL.

BRANCH CIRCUIT VOLTAGE DROP TABLE

IN LIEU OF VOLTAGE DROP CALCULATIONS FOR EACH BRANCH CIRCUIT IN SCOPE OF WORK, THE GENERAL DESIGN STANDARD BELOW HAS BEEN FOLLOWED TO ENSURE A VOLTAGE DROP OF 3% IS NOT EXCEEDED. WHERE THE CIRCUIT LOAD OR CIRCUIT LENGTH LISTED HAS BEEN EXCEEDED, A DETAILED VOLTAGE DROP CALCULATION FOR THAT CIRCUIT HAS BEEN PROVIDED WITH THE TITLE 24 COMPLIANCE DOCUMENTATION.

VOLTAGE	MAXIMUM CIRCUIT LOAD FOR 20 AMP CIRCUIT BREAKER	CONDUCTOR SIZE	MAXIMUM BRANCH CIRCUIT LENGTH
120 VOLT	9 AMPS (1.08 KVA)	#8 AWG	285 FEET
		#10 AWG	180 FEET
		#12 AWG	115 FEET
	12 AMPS (1.44 KVA)	#8 AWG	210 FEET
		#10 AWG	135 FEET
		#12 AWG	85 FEET
	16 AMPS (1.92 KVA)	#8 AWG	130 FEET
		#10 AWG	85 FEET
		#12 AWG	55 FEET
240 VOLT	9 AMPS (2.16 KVA)	#8 AWG	510 FEET
		#10 AWG	330 FEET
		#12 AWG	200 FEET
	12 AMPS (2.88 KVA)	#8 AWG	380 FEET
		#10 AWG	250 FEET
		#12 AWG	150 FEET
	16 AMPS (3.84 KVA)	#8 AWG	285 FEET
		#10 AWG	185 FEET
		#12 AWG	110 FEET
208 VOLT	9 AMPS (1.87 KVA)	#8 AWG	440 FEET
		#10 AWG	285 FEET
		#12 AWG	170 FEET
	12 AMPS (2.49 KVA)	#8 AWG	330 FEET
		#10 AWG	215 FEET
		#12 AWG	130 FEET
	16 AMPS (3.33 KVA)	#8 AWG	250 FEET
		#10 AWG	160 FEET
		#12 AWG	95 FEET

APPLICABLE CODES AND REGULATIONS

2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)).

2022 CALIFORNIA BUILDING CODE (CBC) - PART 2, TITLE 24, CCR, BASED ON THE 2021 INTERNATIONAL BUILDING CODE (IBC).

2022 CALIFORNIA ELECTRICAL CODE (CEC) - PART 3, TITLE 24, CCR, BASED ON THE 2020 NATIONAL ELECTRICAL CODE (NEC).

2022 CALIFORNIA MECHANICAL CODE (CMC) - PART 4, TITLE 24, CCR, BASED ON THE 2021 UNIFORM MECHANICAL CODE (UMC).

2022 CALIFORNIA PLUMBING CODE (CPC) - PART 5, TITLE 24, CCR, BASED ON THE 2021 UNIFORM PLUMBING C0DE (UPC).

2022 CALIFORNIA FIRE CODE (CFC) - PART 9, TITLE 24, CCR, BASED ON THE 2021 INTERNATIONAL FIRE CODE (IFC).

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE - PART 11, TITLE 24

2021 N.F.P.A. 101 LIFE SAFETY CODE

2022 N.F.P.A. 72 FIRE ALARM CODE

2022 EDITION TITLE 19, CALIFORNIA CODE OF REGULATIONS, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

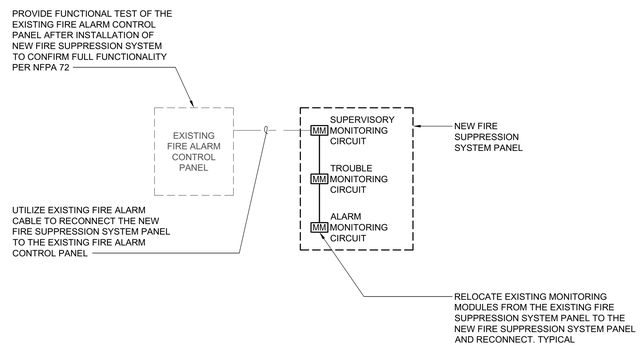
TITLE 8, CALIFORNIA CODE OF REGULATIONS, INDUSTRIAL STANDARDS.

TITLE 22, CALIFORNIA CODE OF REGULATIONS, SOCIAL SECURITY DIVISIONS 5, 7.

OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).

FACTORY MUTUAL SYSTEM (FM) REQUIREMENTS.

ALL APPLICABLE STATE AND LOCAL CODES AND REGULATIONS



1 / E-0.1 PARTIAL FIRE ALARM SYSTEM WIRING DIAGRAM

NO SCALE

CDCR ACCESS COMPLIANCE

1334 1/8/2025
CASp-491

REGISTERED PROFESSIONAL ENGINEER — JESSE U. BASTIAN — No. E20229 Exp. 03-31-25 — ELECTRICAL — STATE OF CALIFORNIA

10/15/2024

M. NEILS ENGINEERING, INC.
Electrical Engineers | Lighting Designers
100 Howe Ave., Suite 235N
Sacramento, CA 95825-8217
www.mneilsengineering.com
Tel: (916) 923-4400
PROJECT #: 22238.21
PROJECT MGR: Stuart Lindsay

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11/04/24
23-8888
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REV.	DATE:	DESCRIPTION

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS
Project No: 5892.00

HIBSER YAMAUCHI Architects, Inc.
4602 2nd Street, Suite #3
Davis, CA 95618
530.758.1270 office
530.758.4789 fax

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

SHEET TITLE: ELECTRICAL SHEET INDEX, SYMBOL LIST, ABBREVIATIONS, AND DEMOLITION GENERAL NOTES

CDCR 20-034 Nos.:

SHEET NUMBER
E-0.1

V3

Oct 15, 2024 – 2:29pm, / kerlo

GENERAL NOTES

1. DESIGN, FURNISH, INSTALL AND TEST NEW FIRE SYSTEM.
2. FIELD VERIFY ALL EXISTING CONDITIONS AS NECESSARY FOR THE WORK. DRAWINGS WERE PRODUCED FROM FIELD NOTES.
3. NEW SUPPRESSION MANUAL PULL STATION TO BE WITHIN THE KITCHEN ROOM, BETWEEN 10FT TO 20FT FROM THE HOOD AND IN ROUTE THE EXIT DOOR.
4. NEW (K) CLASS FIRE EXTINGUISHER TO BE WITHIN 30FT FROM THE HOOD. IF NEEDED PROVIDE A SECOND EXTINGUISHER AS SHOWN IN DRAWINGS.
5. AFTER CONSTRUCTION IS COMPLETE, REPAIR ADJACENT SURFACES TO MATCH EXISTING IN PRE-CONSTRUCTION CONDITION. SEE DRAWINGS TO ENSURE PROPER FIRE RATING IS MAINTAINED.
6. NEW PULL STATIONS TO BE INSTALLED WITH OPERABLE PARTS NOT HIGHER THAN 48" AFF. PROVIDE ACCESSIBLE CLEARANCE IN FRONT OF THE PULL STATION.
7. NEW FIRE EXTINGUISHERS TO BE MOUNTED IN A CABINET WITH TOP SET AT 48" MAX. AFF. FOR RECESSED CABINET INSTALL SO IT DOES NOT PROTRUDE MORE THAN 4" OUT OF THE WALL, UON.
8. THE REMOVAL OF CONDUIT OR PIPING SHALL BE SEALED WITH LISTED OR EQUIVALENT LIQUID TIGHT SEALING DEVICES. (NFPA 96 SECTION: 10.2.7.2)
9. FOR STRUCTURAL ANCHORAGE FOR KITCHEN EQUIPMENT SEE SHEET S9.0 AND S9.1

LEGEND

AREA NOT IN SCOPE

PATH OF TRAVEL TO EXIT

WALL LEGEND

ONE HOUR RATED WALL

TWO HOUR RATED SEPARATION WALL

CMU WALL

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION

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23-5898
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30 BUILDING A01 - ADMINISTRATION KITCHEN - OVERALL FLOOR PLAN

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

TRUE NORTH

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

CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

REV.	DATE:	DESCRIPTION

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS
Project No: 5892.00

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LICENSED ARCHITECT
KEN YAMAUCHI
C-26566
02-28-2025
RENEWAL DATE
STATE OF CALIFORNIA

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

SHEET TITLE: BUILDING A01 - ADMINISTRATION KITCHEN - OVERALL FLOOR PLAN

CDCR JOB Nos.: 20-034

SHEET NUMBER
AA2.0

V3

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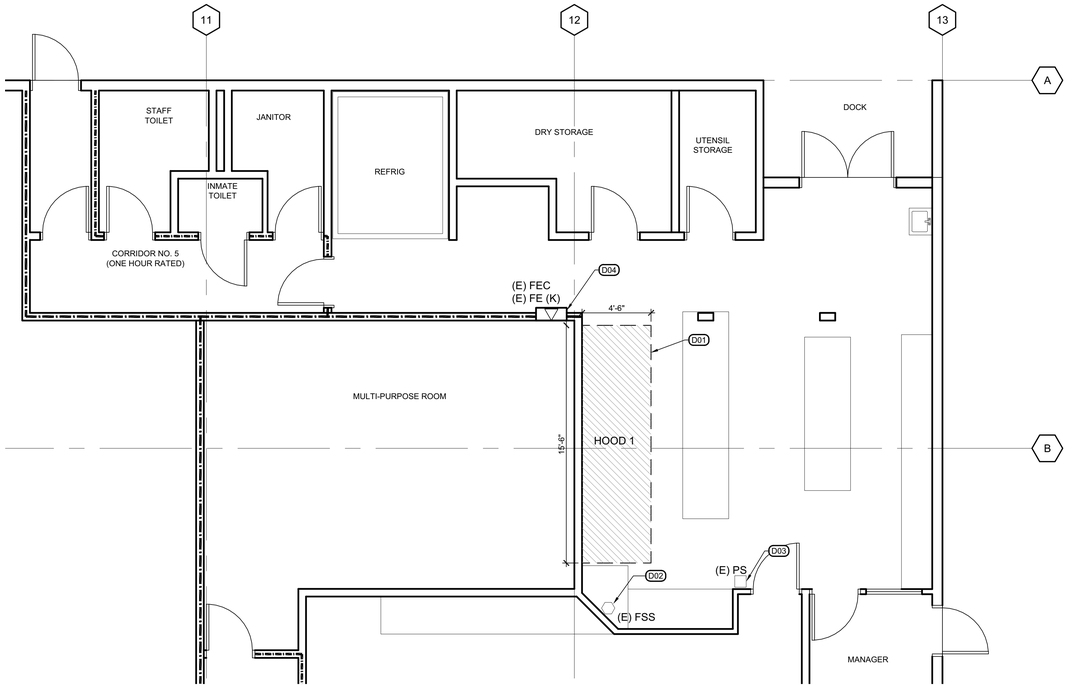
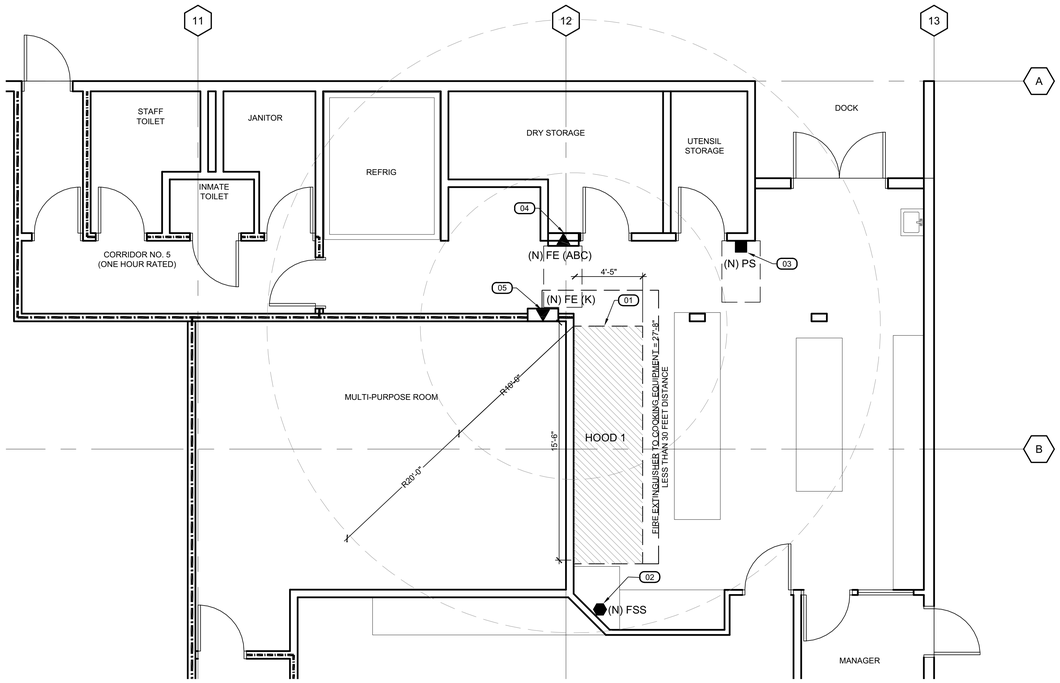


27 BUILDING A01 - ADMINISTRATION KITCHEN - ENLARGED PLAN - DEMO

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

GRAPHIC SCALE: 0 1' 2' 4' 8' 12' — 1/4" = 1'-0"

TRUE NORTH N



30 BUILDING A01 - ADMINISTRATION KITCHEN - ENLARGED PLAN - REMODEL

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

GRAPHIC SCALE: 0 1' 2' 4' 8' 12' — 1/4" = 1'-0"

TRUE NORTH N

GENERAL NOTES

1. DESIGN, FURNISH, INSTALL AND TEST NEW FIRE SYSTEM.
2. FIELD VERIFY ALL EXISTING CONDITIONS AS NECESSARY FOR THE WORK. DRAWINGS WERE PRODUCED FROM FIELD NOTES.
3. NEW SUPPRESSION MANUAL PULL STATION TO BE WITHIN THE KITCHEN ROOM, BETWEEN 10FT TO 20FT FROM THE HOOD AND IN ROUTE THE EXIT DOOR.
4. NEW (K) CLASS FIRE EXTINGUISHER TO BE WITHIN 30FT FROM THE HOOD. IF NEEDED PROVIDE A SECOND EXTINGUISHER AS SHOWN IN DRAWINGS.
5. AFTER CONSTRUCTION IS COMPLETE, REPAIR ADJACENT SURFACES TO MATCH EXISTING IN PRE-CONSTRUCTION CONDITION. SEE DRAWINGS TO ENSURE PROPER FIRE RATING IS MAINTAINED.
6. NEW PULL STATIONS TO BE INSTALLED WITH OPERABLE PARTS NOT HIGHER THAN 48" AFF. PROVIDE ACCESSIBLE CLEARANCE IN FRONT OF THE PULL STATION.
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8. THE REMOVAL OF CONDUIT OR PIPING SHALL BE SEALED WITH LISTED OR EQUIVALENT LIQUID TIGHT SEALING DEVICES. (NFPA 96 SECTION: 10.2.7.2)
9. FOR STRUCTURAL ANCHORAGE FOR KITCHEN EQUIPMENT SEE SHEET S9.0 AND S9.1

WALL LEGEND

ONE HOUR RATED WALL

TWO HOUR RATED SEPARATION WALL

DEMOLITION LEGEND

	EXISTING KITCHEN HOOD TO REMAIN. ANSUL SYSTEM TO BE REPLACED. SEE FS DRAWINGS FOR DETAILS AND EQUIPMENT LAYOUT.
(E) FSS	(E) FIRE SUPPRESSION SYSTEM CONTROL BOX
FEC	(E) FIRE EXTINGUISHING CABINET WITH FIRE HOSE AND FIRE EXTINGUISHER INSIDE.
(E) PS	(E) PULL STATION LOCATION.
FE (K)	(E) K-CLASS PORTABLE FIRE EXTINGUISHER

REMODEL LEGEND

FSS	(N) FIRE SUPPRESSION SYSTEM CONTROL BOX
— — —	DISTANCE FROM FIRE EXTINGUISHER TO COOKING EQUIPMENT. 30 FEET MAXIMUM UNOBSTRUCTED DISTANCE.
FE (ABC)	(N) ABC-CLASS PORTABLE FIRE EXTINGUISHER
(N) PS	(N) PULL STATION LOCATION

DEMOLITION KEYNOTES

D01 (E) KITCHEN HOOD 1 TO REMAIN. (E) ANSUL SYSTEM TO BE REMOVED. KITCHEN EQUIPMENT TO BE SHIFTED PER FS DRAWINGS.

D02 (E) FIRE SUPPRESSION SYSTEM CONTROL BOX TO BE REMOVED AND REPLACED.

D03 (E) PULL STATION TO BE RELOCATED. PATCH, REPAIR AND PAINT ADJACENT SURROUNDINGS TO MATCH (E) CONDITIONS.

D04 (E) FIRE EXTINGUISHER CABINET TO REMAIN.

REMODEL KEYNOTES

01 ANSUL SYSTEM TO BE REPLACED. SEE FS DRAWINGS FOR DETAILS AND EQUIPMENT LOCATIONS.

02 (N) FIRE SUPPRESSION SYSTEM CONTROL BOX. SEE FS DRAWINGS.

03 (N) PULL STATION. SEE FS DRAWING. PROVIDE SIGNAGE INDICATING ANSUL SYSTEM. SEE DETAIL 13/A9.01

04 INSTALL NEW RECESSED FIRE EXTINGUISHER CABINET WITH (N) ABC CLASS, SIZE 2A, FIRE EXTINGUISHER. SEE DETAIL 1/A9.0

05 EQUIP (E) FIRE EXTINGUISHER CABINET WITH (N) K CLASS FIRE EXTINGUISHER SEE FS DRAWINGS FOR SIZE OF K CLASS FIRE EXTINGUISHER

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STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS
Project No: 5892.00

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LICENSED ARCHITECT
KEN YAMAUCHI
C-26566
02-28-2025
RENEWAL DATE
STATE OF CALIFORNIA

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

SHEET TITLE: BUILDING A01 - ADMINISTRATION KITCHEN - ENLARGED PLAN - DEMOLITION AND REMODEL

CDCR Bldg. No.: 30-01

SHEET NUMBER
AA3.0

V3

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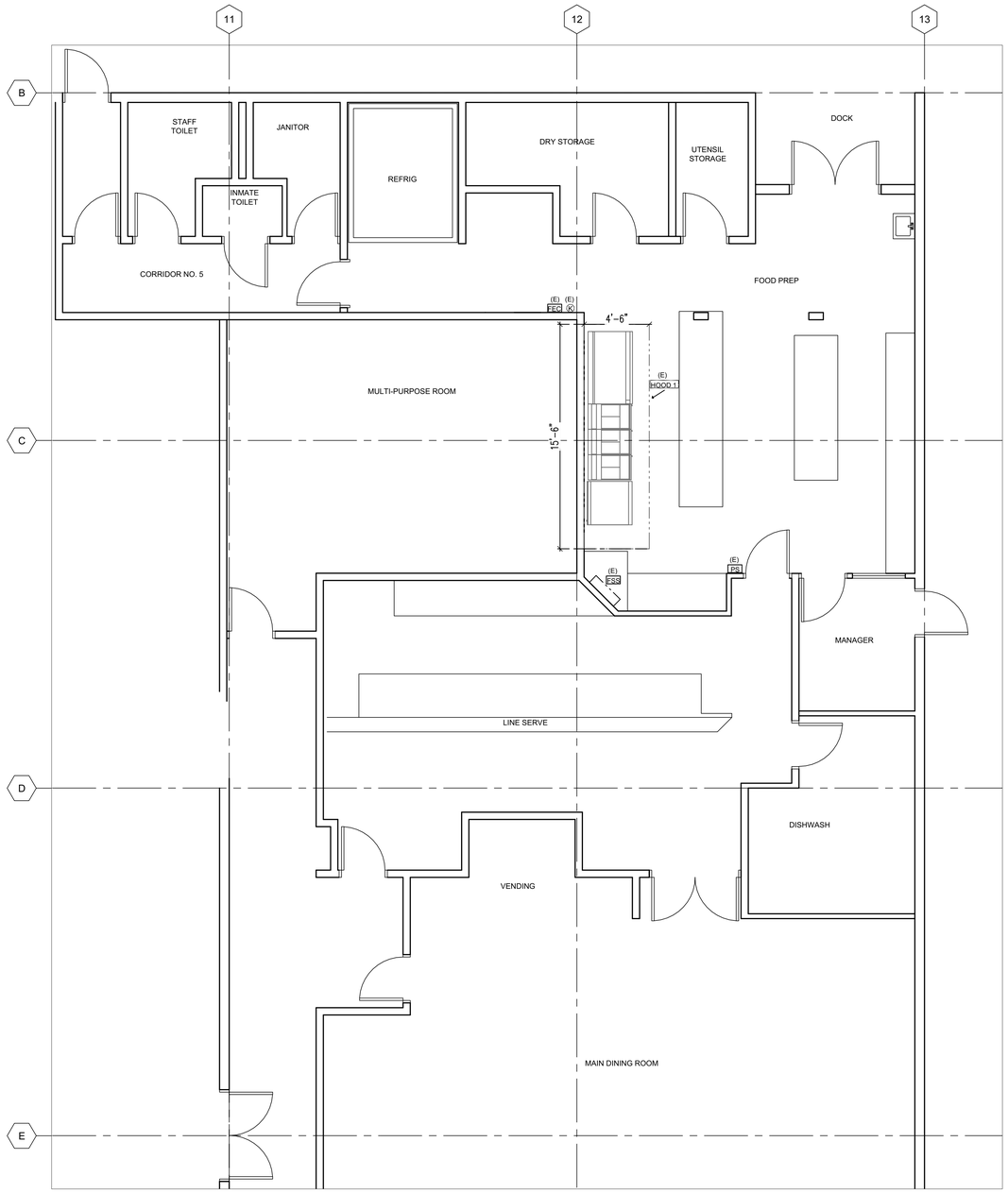

30 BLDG A01 ADMIN KITCHEN - FIRE SUPPRESSION DEMO PLAN

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

GENERAL NOTES:

A. ALL EQUIPMENT TO HAVE NSF, ETL SANITATION OR UL SANITATION APPROVALS.

B. INSTALLATION TO MEET CALIFORNIA RETAIL FOOD CODE (CRFC) LATEST EDITION.

FIRE SUPPRESSION CONTRACTOR TO:

A. REMOVE EXISTING FIRE SUPPRESSION SYSTEM AND ALL COMPONENTS.

B. REFER TO ARCHITECTURAL DRAWING SHEET NOTES FOR NOTES AND GUIDELINES REGARDING EXISTING CONDITION GUIDELINES

SYMBOLS

(E) FSS EXISTING FIRE SUPPRESSION SYSTEM; TO BE REMOVED

(E) PS EXISTING FIRE PROTECTION PULL BOX; TO BE REMOVED

(E) FEC EXISTING FIRE EXTINGUISHER CABINET; TO REMAIN

(E) K EXISTING TYPE K FIRE EXTINGUISHER; TO BE REMOVED

CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

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Foodservice & Laundry Consultants/Designers
3000 Danville Blvd Suite F-344 Alamo, CA 94507
2129 4th Street Santa Rosa, CA 95404
415/677-1200 Fax 415/677-1210

DEPARTMENT OF CORRECTIONS AND REHABILITATION
STATE OF CALIFORNIA

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DESIGN SERVICES SECTION

Project No.: 5892.00
Project Phase: FINAL DRAWINGS

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LICENSED ARCHITECT
KEN YAMAUCHI
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02-28-2025
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REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

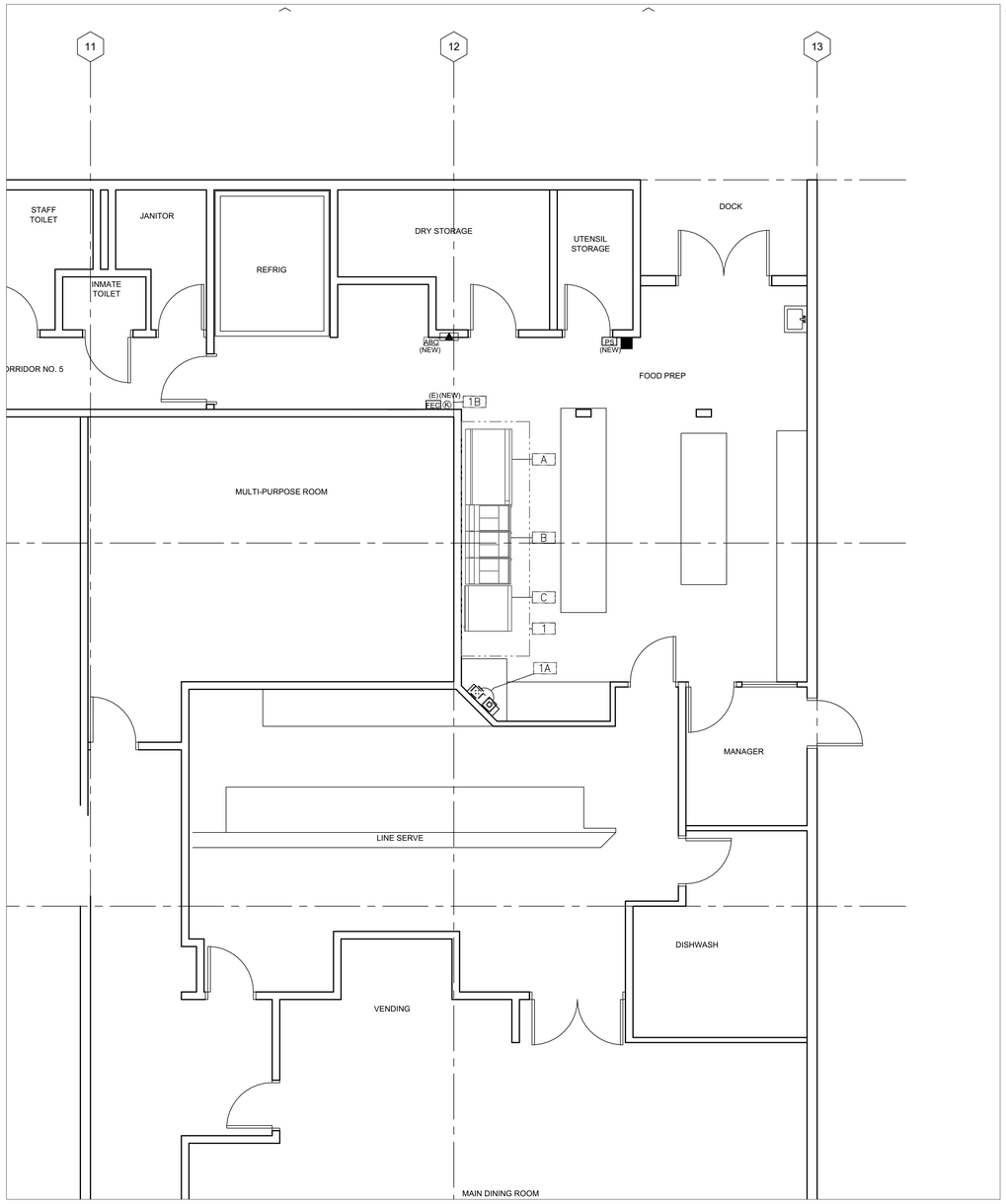
DATE: JULY 19, 2024

SHEET TITLE: BUILDING A01 - ADMIN BUILDING
FIRE SUPPRESSION DEMO PLAN

CDCR JOB No.: 20-034

SHEET NUMBER
FS-A1.1

V3



SHEET NOTES

FIRE SUPPRESSION CONTRACTOR TO PROVIDE:

A. WORK AS DESCRIBED IN CONTRACT DOCUMENTS AND SUPPLEMENTAL REQUIREMENTS PER FIRE SUPPRESSION EQUIPMENT SECTION.

B. ROUGH–IN AND FINAL CONNECTION TO ALL FIRE SUPPRESSION EQUIPMENT AS INDICATED ON DRAWINGS AND IN ELECTRICAL ROUGH–IN SCHEDULE.

C. ALL JUNCTION–BOXES, ELECTRICAL OUTLETS, COVER PLATES, SWITCHES NOT BUILT INTO FIXTURES OR EQUIPMENT.

D. SHUNT TRIP CIRCUIT BREAKERS FOR ALL FOODSERVICE EQUIPMENT BELOW EXHAUST HOODS.

E. INCLUDE DORMONT POSI–SET CASTER PLACEMENT SAFETY SYSTEM FOR ALL EXISTING MOBILE COOKING EQUIPMENT BELOW EXISTING HOODS AFTER NEW FIRE SUPPRESSION SYSTEM HAS BEEN INSTALLED. SEE S9.1 FOR DETAIL

F. ALL OTHER EXISTING EQUIPMENT TO BE ANCHORED PER REQUIREMENTS SHOWN ON S9.1

INTERCONNECTION BETWEEN:

A. FIRE PROTECTION SYSTEM AND BUILDING LIFE SAFETY.

SYMBOLS

PS — NEW FIRE PROTECTION PULL BOX – OCTAGONAL BOX 48" AFF WITH CONDUIT TO CEILING – PYRO CHEM KITCHEN KNIGHT II MODEL RPS–M

ABC — NEW ABC FIRE EXTINGUISHER SEE SHEET AA3.0 FOR MAKE/MODEL

(E) FEC — EXISTING FIRE EXTINGUISHER CABINET; TO REMAIN

K — NEW TYPE K FIRE EXTINGUISHER BUCKEYE; MODEL WC–6L

JUNCTION BOX ROUGH–IN

JUNCTION BOX CONNECTION PROVIDED IN EQUIPMENT

EQUIPMENT SCHEDULE

ITEM	QTY	DESCRIPTION	MANUFACTURER	MODEL NUMBER	NOTES
1	1	EXHAUST HOOD (TYPE–I)	EXISTING; IN PLACE	NOT PART OF FSEC CONTRACT	NIC
1A	1	FIRE PROTECTION SYSTEM	STREIVOR AIR SYSTEMS	PYRO–CHEM KITCHEN KNIGHT II	
1B	1	CLASS K FIRE EXTINGUISHER	BUCKEYE	WC–6L	
A	1	ELECTRIC RANGE/OVEN	VULCAN (EXISTING)	E60B (EXISTING)	NIC
B	1	FRYER	VULCAN (EXISTING)	E60B (SPR)	NIC
C	1	GRIDDLE	HOBART (EXISTING)	CG58 (EXISTING)	NIC

ABBREVIATIONS:

FSEC	FOODSERVICE EQUIPMENT CONTRACTOR
S/S	STAINLESS STEEL
NIC	NOT IN CONTRACT
CKT	CIRCUIT

ELECTRICAL ROUGH-IN

ITEM	QTY	DESCRIPTION	CONNECTED LOAD							CONNECTION TYPE		
			120/1	120/208/1	120/208/3	208/1	208/3	480/3	HT	C&P	RECP	HW
1	1	EXHAUST HOOD (TYPE–I)	(E)									
1A	1	FIRE PROTECTION SYSTEM	20A CKT						FA			*
1B	1	CLASS K FIRE EXTINGUISHER										

ABBREVIATIONS:

C&P	CORD AND PLUG	CKT	CIRCUIT
RECP	RECEPTACLE	E	EXISTING
HW	HARDWIRE		
HT	HEIGHT		
FA	FROM ABOVE		

SCHEDULE / DRAWING NOTES:

CONNECTED LOAD = EACH CONNECTION SHOWN ON DRAWING

CONNECTION TYPES PROVIDED BY ELECTRICAL DIVISION

30 BLDG A01 ADMIN KITCHEN - FIRE SUPPRESSION NEW EQUIPMENT PLAN

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

CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

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FIRE SUPPRESSION NEW EQUIPMENT PLAN

CDCR PROJ. NOS.: 20–034

SHEET NUMBER
FS-A1.2

V3

LISTINGS & STANDARDS

THIS WET CHEMICAL EXTINGUISHING SYSTEM IS ENGINEERED TO PROVIDE FIRE PROTECTION FOR RESTAURANT HOODS, DUCTS AND COOKING APPLIANCES, IS **UL 300** LISTED AND IS TO BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS:

- NFPA 17A 2021 EDITION
- NFPA 10 2018 EDITION
- NFPA 96 2021 EDITION

SECTIONS & CODES

NFPA 10 2018 EDITION

(5.6.2) MAXIMUM TRAVEL DISTANCE SHALL NOT EXCEED 30 FT (9.1 M) FROM THE HAZARD TO THE EXTINGUISHER(S)

NFPA 17A 2021 EDITION

(5.2.1.10.1) EACH MANUAL ACTUATION DEVICE SHALL BE INSTALLED NO MORE THAN 48 IN. (1200 MM) AND NO LESS THAN 42 IN. (1067 MM) ABOVE THE FLOOR.

NFPA 96 2021 EDITION

(8.2.3.1) A HOOD EXHAUST FAN(S) SHALL CONTINUE TO OPERATE AFTER THE EXTINGUISHING SYSTEM HAS BEEN ACTIVATED UNLESS FAN SHUTDOWN IS REQUIRED BY A LISTED COMPONENT OF THE VENTILATION SYSTEM OR BY THE DESIGN OF THE EXTINGUISHING SYSTEM.

(8.2.3.2) THE HOOD EXHAUST FAN SHALL START UPON ACTIVATION OF THE EXTINGUISHING SYSTEM IF THE EXHAUST FAN AND ALL COOKING EQUIPMENT SERVED BY THE FAN HAVE BEEN SHUT DOWN, UNLESS FAN SHUTDOWN IS REQUIRED BY A LISTED COMPONENT OF THE VENTILATION SYSTEM OR BY THE LISTING OF THE EXTINGUISHING SYSTEM.

(8.3.2) WHEN THE FIRE-EXTINGUISHING SYSTEM ACTIVATES, MAKEUP AIR SUPPLIED INTERNALLY TO A HOOD SHALL BE SHUT OFF.

(10.4.1) UPON ACTIVATION OF ANY FIRE EXTINGUISHING SYSTEM FOR A COOKING OPERATION, ALL ~~SOURCES OF FUEL~~ AND ELECTRICAL POWER THAT PRODUCE HEAT TO ALL EQUIPMENT REQUIRING PROTECTION BY THAT SYSTEM SHALL AUTOMATICALLY SHUT OFF.

(10.4.3) ~~GAS APPLIANCE NOT REQUIRING PROTECTION BUT LOCATED UNDER VENTILATING EQUIPMENT WHERE PROTECTED APPLIANCES ARE LOCATED SHALL BE AUTOMATICALLY SHUT OFF UPON ACTIVATION OF THE EXTINGUISHING SYSTEM~~

(10.4.4) SHUTOFF DEVICE SHALL REQUIRE MANUAL RESETTING PRIOR TO FUEL / POWER BEING RESTORED

(10.5.1.1) AT LEAST ONE MANUAL ACTUATION DEVICE SHALL BE LOCATED IN A MEANS OF EGRESS OR AT A LOCATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.

(10.5.1.2) THE MANUAL ACTUATION DEVICE SHALL CLEARLY IDENTIFY THE HAZARD PROTECTED.

CMC 2022 EDITION

(513.5) ALL SYSTEMS SHALL HAVE BOTH AUTOMATIC AND MANUAL METHODS OF ACTUATION. AT LEAST ONE MANUAL ACTUATION DEVICE SHALL BE LOCATED IN A MEANS OF EGRESS OR AT A LOCATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.

INSTALLATION REQUIREMENTS

1. ALL PIPE SHALL BE SCHEDULE 40 BLACK IRON. CHROME PLATED/SLEEVED WHERE EXPOSED.
2. ALL CYLINDER SYSTEMS SHALL HAVE 3/8" SUPPLY LINES AND 3/8" BRANCH LINES.
3. ALL WIRE ROPE SHALL BE 1/16" STAINLESS STEEL AND RUN THROUGH 1/2" EMT CONDUIT.
4. U.L. LISTED CORNER PULLEYS REQUIRED WHENEVER THE STAINLESS STEEL CABLE DIRECTION CHANGES.
5. ALL EQUIPMENT WITH FIRE PROTECTION MUST BE SECURED TO FLOOR. (NOT BY STREIVOR)
6. SWIVEL ADAPTERS MAY BE ADDED TO NOZZLES FOR UP TO 30° ROTATION.

SYSTEM #1

PAGE NUMBERS REFERENCED FROM THE PYROCHEM FIRE SUPPRESSION SYSTEM TECHNICAL MANUAL

CABLE/LINE LIMITATIONS - CONTROL HEAD A

		LENGTH		PULLEYS	BRACKETS
FUSIBLE LINK (pg. 4-5)	MAXIMUM	150.00	FT	40	20
	ALLOTTED	25.00	FT	4	5 *
PULL STATION(S) (pg. 4-9)	MAXIMUM	150.00	FT	40	N/A
	ALLOTTED	45.00	FT	2	N/A
GAS VALVE(S) (pg. 4-10)	MAXIMUM	100.00	FT	30	N/A
	ALLOTTED	--.--	FT	--	N/A

*ML STYLE FUSIBLE LINK INCLUDED WITH SYSTEM (NOT SUPPLIED BY STREIVOR). FUSIBLE LINK TEMPERATURE RATING TO BE VERIFIED AND DETERMINED IN FIELD.

CYLINDER #1

COVERAGE DESCRIPTION	NOZZLE	QTY.	FLOW POINTS	PAGE
DUCT	2D	1	2	3-1
PLENUM	1H	1	1	3-3
GRIDDLE	**2H**	1	2	3-10

MODEL	FLOW POINTS		
PCL-300	5 ALLOTTED	10 MAXIMUM	

TOTAL				FIRST TO LAST NOZZLE			
LENGTH**		VOLUME		LENGTH**		VOLUME	
27.00	FT	1013	ML	16.00	FT	600	ML

CYLINDER #2

COVERAGE DESCRIPTION	NOZZLE	QTY.	FLOW POINTS	PAGE
PLENUM	1H	1	1	3-3
RANGE	2L	2	4	3-7
RANGE	1H	1	**1**	3-6
FRYER	**2H**	3	6	3-5

MODEL	FLOW POINTS		
PCL-460	12 ALLOTTED	14 MAXIMUM	

TOTAL				FIRST TO LAST NOZZLE			
LENGTH**		VOLUME		LENGTH**		VOLUME	
43.00	FT	1613	ML	26.00	FT	975	ML

CYLINDER/PIPING LIMITATIONS

CYLINDER	FLOW POINTS	TOTAL				FIRST TO LAST NOZZLE			
		LENGTH*		VOLUME		LENGTH*		VOLUME	
PCL-460	15	69.33	FT	2600	ML	53.33	FT	2000	ML
PCL-460	14	90.67	FT	3400	ML	80.00	FT	3000	ML
PCL-300	10	50.93	FT	1910	ML	30.00	FT	1125	ML
PCL-160	5	40.00	FT	1500	ML	16.00	FT	600	ML

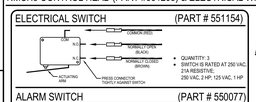
** CALCULATIONS BASED ON 3/8" PIPE (37.5 ML/FT) (SEE pg. 3-18)

LEGEND

- PATH OF EGRESS
- DETECTION LINE ROUTE
- K-CLASS FIRE EXTINGUISHER (NOT SUPPLIED BY STREIVOR)
- GAS VALVE
- PULL STATION
- RESET RELAY
- CONTROL HEAD
- DETECTOR BRACKET (FRONT VIEW)
- DETECTOR BRACKET (PLAN VIEW)
- NOZZLE COVERAGE
- PAC-10 PNEUMATIC TUBING
- FIELD PIPING
- FIELD WIRING NOT BY STRIEVOR
- DUCT NOZZLE MAX PERIMETER
- PLENUM NOZZLE MAX PLENUM LENGTH
- APPLIANCE NOZZLE AND HEIGHT
- DOWNWARD FACING NOZZLE
- ANGLED NOZZLE AND TARGET LOCATION

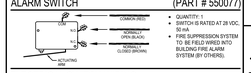
NMCH3 CONTROL HEAD (PART #551203) & ELECTRICAL WIRING

ELECTRICAL SWITCH (PART # 551154)

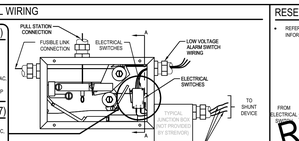


- QUANTITY: 3
- SWITCH IS RATED AT 250 VAC, 21A RESISTIVE; 250 VAC, 2 HP; 125 VAC, 1 HP

ALARM SWITCH (PART # 550077)



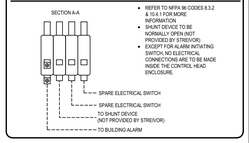
- QUANTITY: 1
- SWITCH IS RATED AT 26 VDC, 50 mA
- FIRE SUPPRESSION SYSTEM TO BE FIELD WIRED INTO BUILDING FIRE ALARM SYSTEM (BY OTHERS).



ELECTRICAL CONNECTIONS TO BE MADE OUTSIDE OF CONTROL HEAD FIELD WIRING BY OTHERS

- EXCEPT FOR ALARM INITIATING SWITCH, NO ELECTRICAL CONNECTIONS ARE TO BE MADE INSIDE THE CONTROL HEAD ENCLOSURE.

ELECTRICAL SWITCH WIRING



- REFER TO NFPA 96 CODES 8.3.2 & 10.4.1 FOR MORE INFORMATION
- ALL WIRING TO BE NORMALLY OPEN (NO)* PROVIDED BY STREIVOR)
- EXCEPT FOR ALARM INITIATING SWITCH, NO ELECTRICAL CONNECTIONS ARE TO BE MADE INSIDE THE CONTROL HEAD ENCLOSURE.

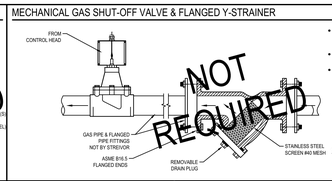
RESET RELAY

- REFER TO MANUAL RESET RELAY INSTRUCTIONS FOR MORE INFORMATION

NOT REQUIRED

MECHANICAL GAS SHUT-OFF VALVE & FLANGED Y-STRAINER

(SEE MEP DRAWINGS FOR LOCATION)

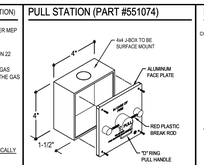


NOT REQUIRED

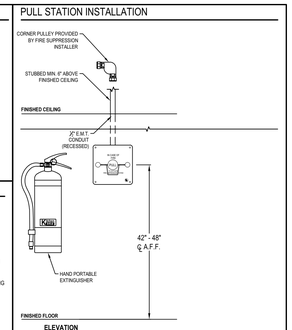
- GAS SHUT-OFF VALVE(S) TO BE SIZED AND LOCATED PER MEP DRAWINGS
  (MAXIMUM VALVE SIZE: 3" NPT)
- VALVE(S) AND STRAINER(S) TO BE INSTALLED BY DIVISION 22 (PLUMBING)
- Y-STRAINER REQUIRED FOR THE PROTECTION OF THE GAS VALVE. INSTALL A Y-STRAINER ON THE INLET SIDE OF THE GAS VALVE (AS CLOSE AS POSSIBLE).

Y-STRAINER NOT PROVIDED BY STREIVOR UNLESS SPECIFICALLY INCLUDED IN PURCHASE ORDER.

PULL STATION (PART #551074)

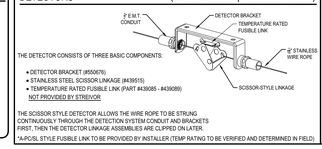


PULL STATION INSTALLATION



DETECTORS

(Series #435546 | Terminal #435547)



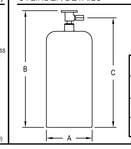
THE DETECTOR CONSISTS OF THREE BASIC COMPONENTS:

- DETECTOR BRACKET (#550676)
- STAINLESS STEEL SCISSOR LINKAGE (#439515)
- TEMPERATURE RATED FUSIBLE LINK (PART #435085 - #439089)
  NOT PROVIDED BY STREIVOR

THE SCISSOR STYLE DETECTOR ALLOWS THE WIRE ROPE TO BE STRUNG CONTINUOUSLY THROUGH THE DETECTION SYSTEM CONDUIT AND BRACKETS FIRST. THEN THE DETECTOR LINKAGE ASSEMBLIES ARE CLIPPED ON LATER.

*A-PC/SL STYLE FUSIBLE LINK TO BE PROVIDED BY INSTALLER (TEMP RATING TO BE VERIFIED AND DETERMINED IN FIELD)

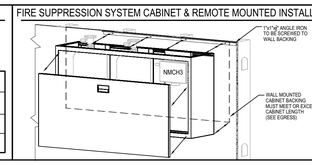
CYLINDER DETAILS



*CYLINDERS COME PRE-FILLED WITH EXTINGUISHING AGENT AND ARE CHARGED WITH DRY NITROGEN TO A PRESSURE OF 225 PSIG @ 70° F (15.5 BAR @ 21° C).

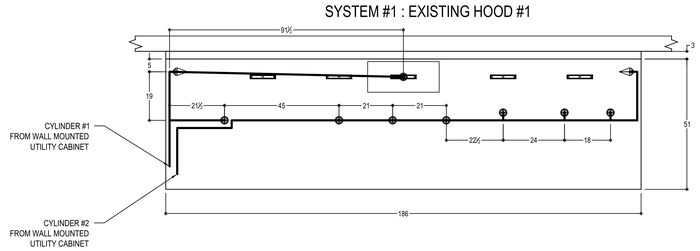
MODEL NO.	A	B	C	WEIGHT
PLC-160 (PART #550163)	8.00 IN	17.75 IN	15.44 IN	34 LBS.
PLC-300 (PART #551194)	8.00 IN	25.06 IN	22.75 IN	53 LBS.
PLC-460 (PART #551193)	10.00 IN	25.06 IN	22.75 IN	83 LBS.

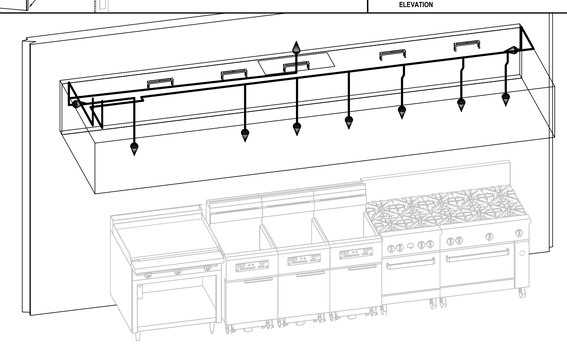
FIRE SUPPRESSION SYSTEM CABINET & REMOTE MOUNTED INSTALLATION



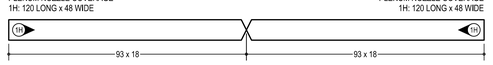
- 36" MINIMUM CLEARANCE REQUIRED IN FRONT OF THE REMOVABLE CABINET DOOR.
- SUPPORT BACKING REQUIRED IF CABINET MOUNTS TO WALL
- CABINET AND FIRE SUPPRESSION SYSTEM COMPONENTS APPROXIMATELY 100 LBS.IFT. SEE PATH OF EGRESS DRAWING FOR CABINET DIMENSION(S).

SYSTEM #1 : EXISTING HOOD #1



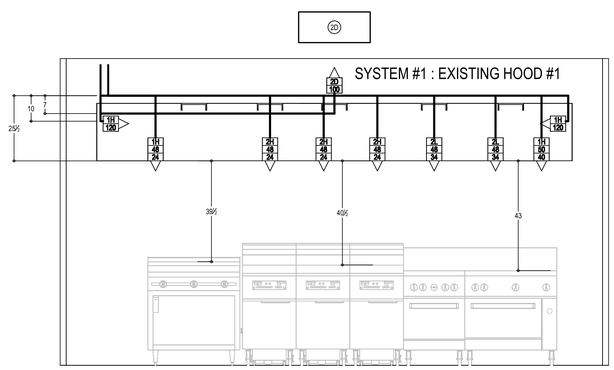


PLENUM NOZZLE COVERAGE
1H: 120 LONG x 48 WIDE



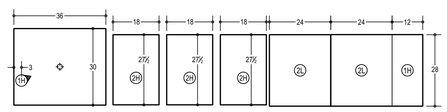
PLENUM NOZZLE COVERAGE
1H: 120 LONG x 48 WIDE

DUCT NOZZLE COVERAGE
2D: 100" PERIMETER



MAX COVERAGE:

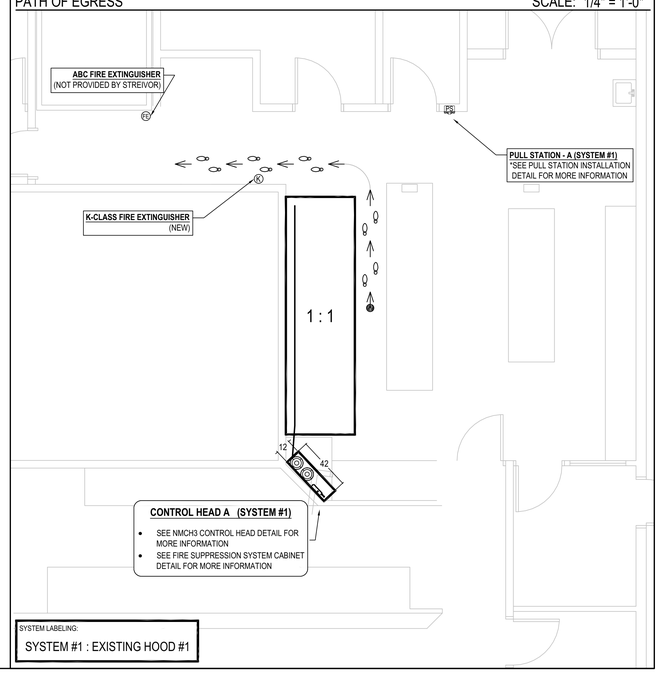
GRIDDLE (ELECTRIC)	FRYER (ELECTRIC)	FRYER (ELECTRIC)	FRYER (ELECTRIC)	RANGE (ELECTRIC)	RANGE (ELECTRIC)
2H: 30x36	2H: 18x27.75	2H: 18x27.75	2H: 18x27.75	2L: 28x28	2L: 28x28 1H: 28x12



NOTE: ALL FIRE SUPPRESSION SYSTEM PIPING TO BE FIELD INSTALLED BY A STREIVOR APPOINTED LICENSED FIRE SUPPRESSION SYSTEM INSTALLER

PATH OF EGRESS

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



SYSTEM LABELING:
SYSTEM #1 : EXISTING HOOD #1

INSTALLER:

GENERAL NOTES:

NOTES TO ARCHITECT AND/OR CONTRACTOR: STREIVOR, INC. (STREIVOR AIR SYSTEMS, STREIVOR STAINLESS) IS A SPECIALIST IN THE LAYOUT AND DESIGN OF KITCHEN VENTILATION SYSTEMS, AND IN NO WAY PURPORTS TO BE ARCHITECTS OR ENGINEERS.

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ANY ERRORS, AMBIGUITIES OR OMISSIONS IN THIS PLAN OR SPECIFICATIONS SHALL BE REPORTED TO STREIVOR, INC. FOR CORRECTIONS BEFORE ANY OF THE WORK IS STARTED. UNLESS EXPRESSLY STIPULATED, NO ADDITIONAL ALLOWANCE WILL BE MADE IN FAVOR OF THE OWNER OR CONTRACTOR. BY VIRTUE OF ERROR, AMBIGUITY OR OMISSION WHICH MAY HAVE BEEN INTERPRETED OR CORRECTED, ANY ALTERNATE OR ALTERED ESTIMATES, AND DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN A TIMELY MANNER.

PROJECT:

CDCR PELICAN BAY

5905 LAKE EARL DRIVE
CRESCENT CITY, CA 95531

THE MARSHALL ASSOCIATES

ITEM #:	6
SYSTEM #:	1
HOOD #:	5
DATE:	04/11/2023
DRAWN BY:	KCS
CHECKED BY:	SWB
CONSULTANT:	THE MARSHALL ASSOCIATES
SCALE: (UNLESS OTHERWISE NOTED)	1/2" = 1' - 0"
* BOX SIZES NOT NEWLABS * THE DRAWING IS NOT ALIGNED TO SCALE	

	DESCRIPTION	DATE	INT
1	PLAN CHECK COMMENTS	03/19/24	KCS
2	---	--/--/--	---
3	---	--/--/--	---
4	---	--/--/--	---
5	---	--/--/--	---

DRAWING:

F-01

SHEET 01 OF 11

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CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

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Foodservice & Laundry Consultants/Designers
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2129 4th Street Santa Rosa, CA 95404
415/677-1200 Fax 415/677-1210

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"STRIVING FOR EXCELLENCE"
2150 KITTY HAWK ROAD, LIVERMORE, CA 94551
PHONE: (925) 960-9090 FAX:(925) 960-9055
WWW.STREIVOR.COM

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
11/04/24
23-5898
Approval of this plan does not authorize or approve any omission or deviation from applicable requirements. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

REV.	DATE:	DESCRIPTION

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS

HIBER YAMAUCHI Architects, Inc.
4602 2nd Street, Suite #3
Davis, CA 95616
530.758.1270 office
530.758.4789 fax

LICENSED ARCHITECT KEN YAMAUCHI C-26566 02-28-2025 RENEWAL DATE STATE OF CALIFORNIA

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

SHEET TITLE: BUILDING A01 - ADMIN BUILDING FIRE SUPPRESSION MFR PLAN

Project No.: 5882.00

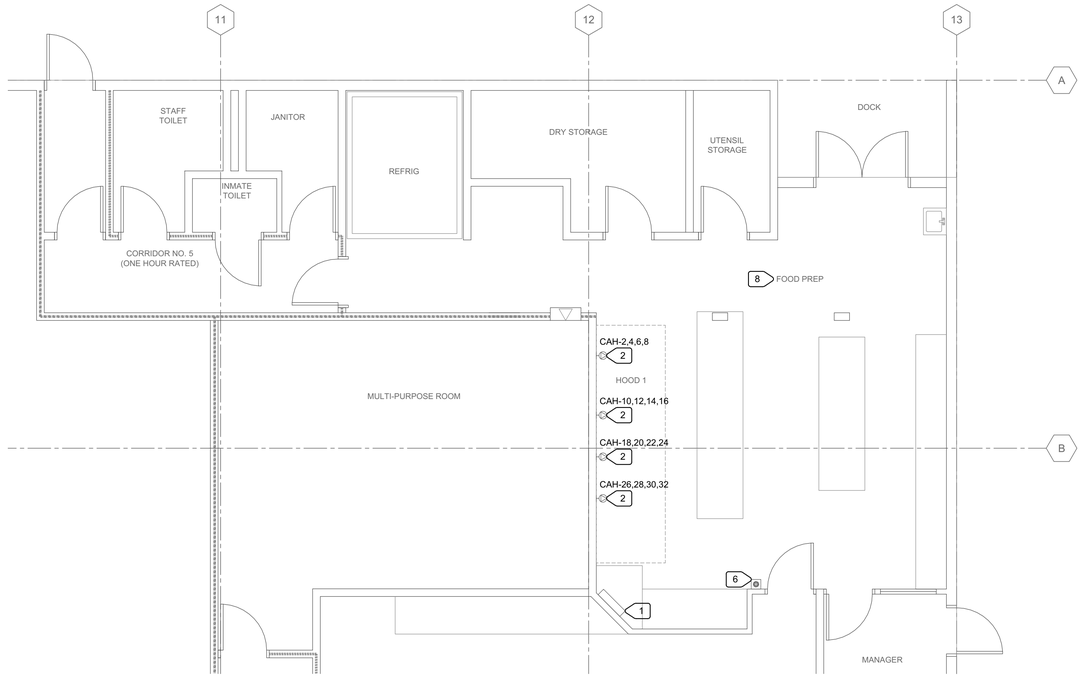
CDCR 20-0334 Nos.:

SHEET NUMBER

FS-A1.3

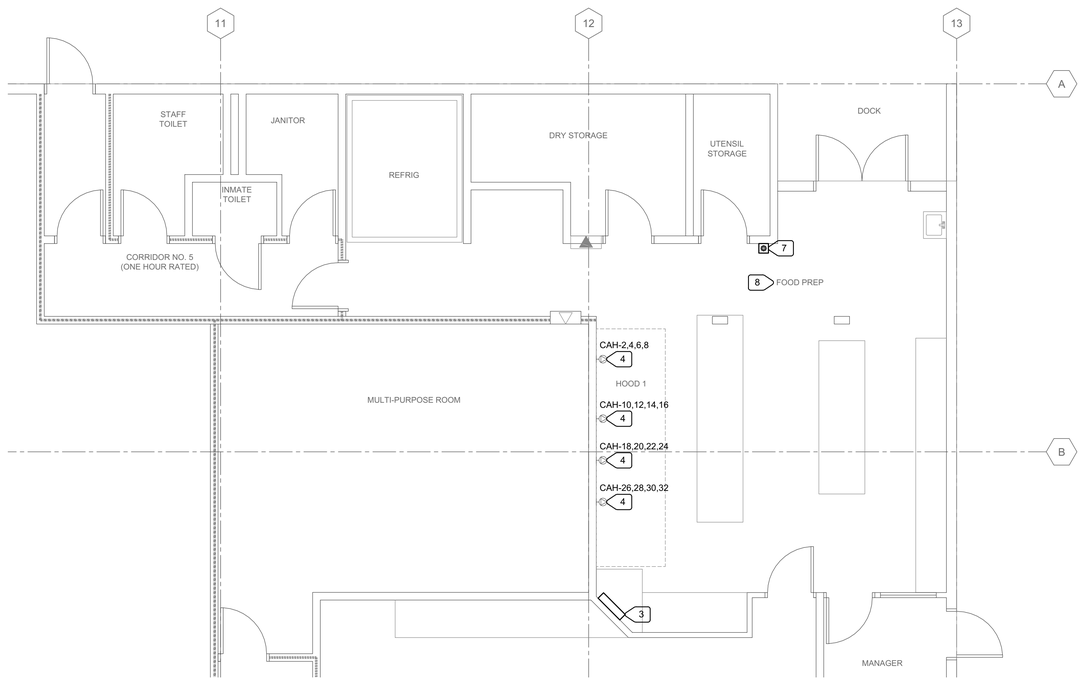
V3

UNAUTHORIZED CHANGES & USES: M. Neils Engineering, Inc. preparing these plans will not be responsible for, or liable for unauthorized changes to or uses to these plans. All changes to these plans must be in writing and must be approved by M. Neils Engineering, Inc.



1 E-A1.1 BUILDING A01 - ADMINISTRATION KITCHEN - ENLARGED PLAN - DEMOLITION - ELECTRICAL

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

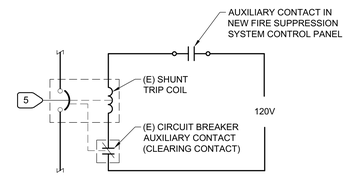


2 E-A1.1 BUILDING A01 - ADMINISTRATION KITCHEN - ENLARGED PLAN - REMODEL- ELECTRICAL

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

NUMBERED NOTES

1. EXISTING FIRE SUPPRESSION SYSTEM CONTROL PANEL TO BE REMOVED. DISCONNECT EXISTING 120V POWER CIRCUIT AND FIRE ALARM MONITORING CIRCUIT AND PROTECT FOR CONNECTION TO NEW PANEL.
2. EXISTING EQUIPMENT CIRCUIT WITH SHUNT TRIP TO REMAIN.
3. NEW FIRE SUPPRESSION SYSTEM CONTROL PANEL. RECONNECT TO EXISTING 120V POWER CIRCUIT AND FIRE ALARM MONITORING CIRCUIT. SEE DETAIL "1/E-0.1" ON SHEET E-0.1".
4. LOCATE EXISTING SHUNT TRIP CONTROL CIRCUIT. CONNECT EXISTING SHUNT TRIP CONTROL CIRCUIT TO AUXILIARY CONTACT IN NEW FIRE SUPPRESSION SYSTEM CONTROL PANEL. AUXILIARY CONTACT SHALL ACTIVATE THE SHUNT TRIP AT THE CIRCUIT BREAKER TO DE-ENERGIZE EQUIPMENT UNDER THE HOOD WHEN FIRE SUPPRESSION SYSTEM IS ACTIVATED.
5. EXISTING CIRCUIT BREAKER WITH AUXILIARY CONTACT (CLEARING CONTACT), WIRED IN SERIES WITH SHUNT TRIP COIL. WHEN CONTACT CLOSES, CIRCUIT BREAKER WILL TRIP, WHICH WILL OPEN THE AUXILIARY CONTACT, CLEARING THE VOLTAGE TO PREVENT THE SHUNT TRIP COIL FROM BURNING-UP.
6. EXISTING FIRE ALARM PULL STATION TO BE RELOCATED. SEE REMODEL PLAN FOR NEW LOCATION.
7. RELOCATED EXISTING FIRE ALARM PULL STATION. RECONNECT TO EXISTING FIRE ALARM CIRCUIT. RECONNECT TO THE UP-STREAM AND/OR DOWN-STREAM DEVICE(S) WITHOUT USE OF CABLE SPLICES. RE-PROGRAM AND TEST FIRE ALARM CONTROL PANEL FOR RELOCATED DEVICE.
8. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND RATING OF FIRE RATED WALLS.



3 E-A1.1 SHUNT-TRIP WIRING DIAGRAM

NO SCALE

CDCR ACCESS COMPLIANCE

1334 1/8/2025
CASp-491

REGISTERED PROFESSIONAL ENGINEER
JESSE U. BASTIAN
No. E20229
Exp. 03-31-25
ELECTRICAL
STATE OF CALIFORNIA

10/15/2024

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PROJECT #: 22238.21
PROJECT MGR: Stuart Lindsay

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REV.	DATE:	DESCRIPTION

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS
Project No: 5892.00

HIBSER YAMAUCHI Architects, Inc.
4602 2nd Street, Suite #3
Davis, CA 95616
530.753.4270 office
530.758.4789 fax

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

SHEET TITLE: BUILDING A01 - ADMINISTRATION KITCHEN - ENLARGED PLANS - DEMOLITION AND REMODEL - ELECTRICAL

CDCR 20-034
Bldg. No.:

SHEET NUMBER
E-A1.1

V3

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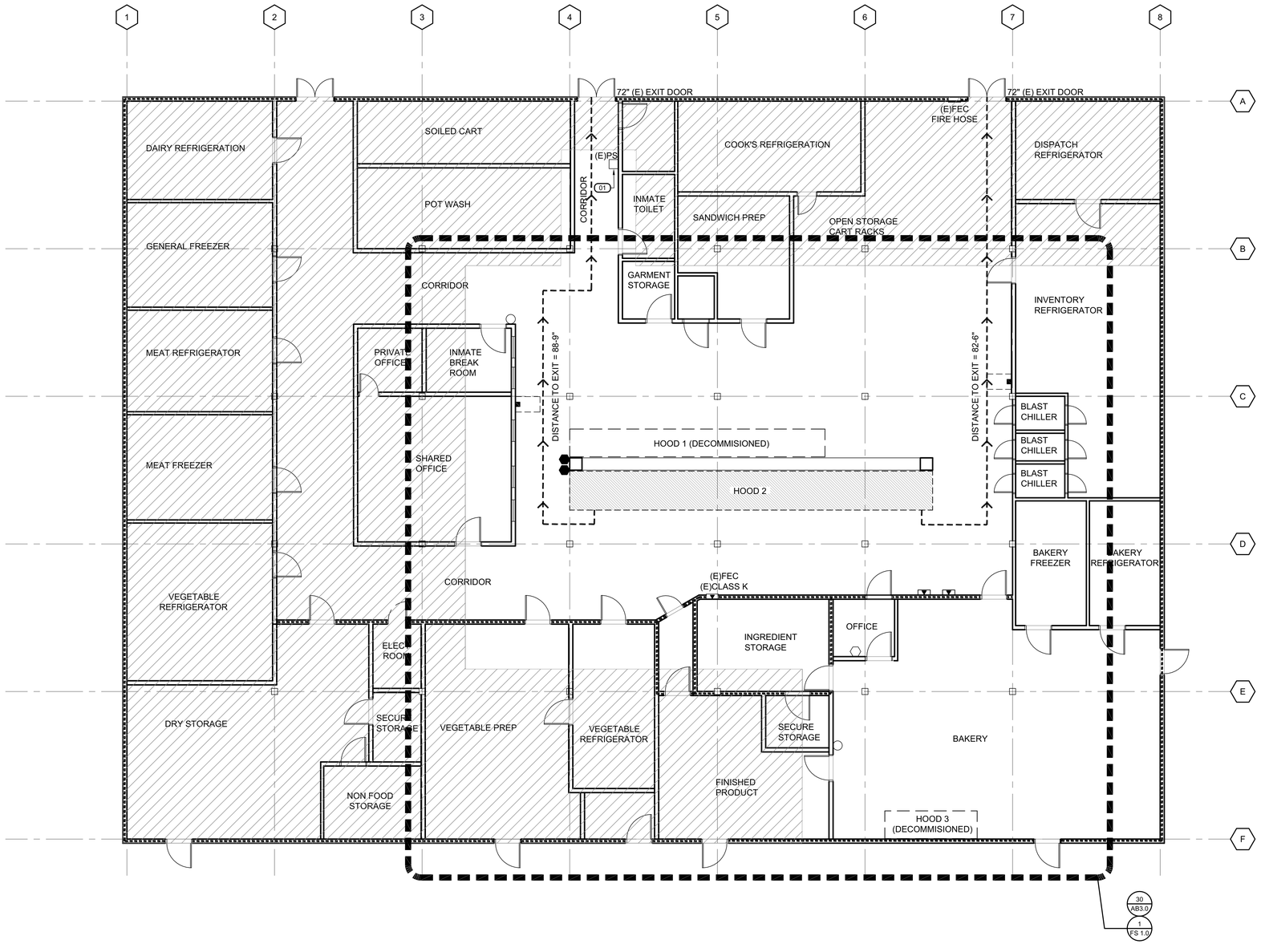

30 BUILDING C01 - CENTRAL KITCHEN FLOOR PLAN

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

1. DESIGN, FURNISH, INSTALL AND TEST NEW FIRE SYSTEM.
2. FIELD VERIFY ALL EXISTING CONDITIONS AS NECESSARY FOR THE WORK. DRAWINGS WERE PRODUCED FROM FIELD NOTES.
3. NEW SUPPRESSION MANUAL PULL STATION TO BE WITHIN THE KITCHEN ROOM, BETWEEN 10FT TO 20FT FROM THE HOOD AND IN ROUTE THE EXIT DOOR.
4. NEW (K) CLASS FIRE EXTINGUISHER TO BE WITHIN 30FT FROM THE HOOD. IF NEEDED PROVIDE A SECOND EXTINGUISHER AS SHOWN IN DRAWINGS.
5. AFTER CONSTRUCTION IS COMPLETE, REPAIR ADJACENT SURFACES TO MATCH EXISTING IN PRE-CONSTRUCTION CONDITION. SEE DRAWINGS TO ENSURE PROPER FIRE RATING IS MAINTAINED.
6. NEW PULL STATIONS TO BE INSTALLED WITH OPERABLE PARTS NOT HIGHER THAN 48" AFF. PROVIDE ACCESSIBLE CLEARANCE IN FRONT OF THE PULL STATION.
7. NEW FIRE EXTINGUISHERS TO BE MOUNTED IN A CABINET WITH TOP SET AT 48" MAX. AFF. FOR RECESSED CABINET INSTALL SO IT DOES NOT PROTRUDE MORE THAN 4" OUT OF THE WALL, UON.
8. THE REMOVAL OF CONDUIT OR PIPING SHALL BE SEALED WITH LISTED OR EQUIVALENT LIQUID TIGHT SEALING DEVICES. (NFPA 96 SECTION: 10.2.7.2)
9. FOR STRUCTURAL ANCHORAGE FOR KITCHEN EQUIPMENT SEE SHEET S9.0 AND S9.1

LEGEND

AREA NOT IN SCOPE

PATH OF TRAVEL TO EXIT

WALL LEGEND

ONE HOUR RATED WALL

TWO HOUR RATED SEPARATION WALL

CMU WALL

DEMOLITION KEYNOTES

D01 (E) PULL STATION TO BE REMOVED. PATCH, REPAIR AND PAINT ADJACENT SURROUNDINGS TO MATCH (E) CONDITIONS.

CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

TRUE NORTH
N

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23-8898
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STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project No: 5892.00
Project Phase: FINAL DRAWINGS

HIBSER YAMAUCHI Architects, Inc.
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LICENSED ARCHITECT
KEN YAMAUCHI
C-26566
02-28-2025
RENEWAL DATE
STATE OF CALIFORNIA

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

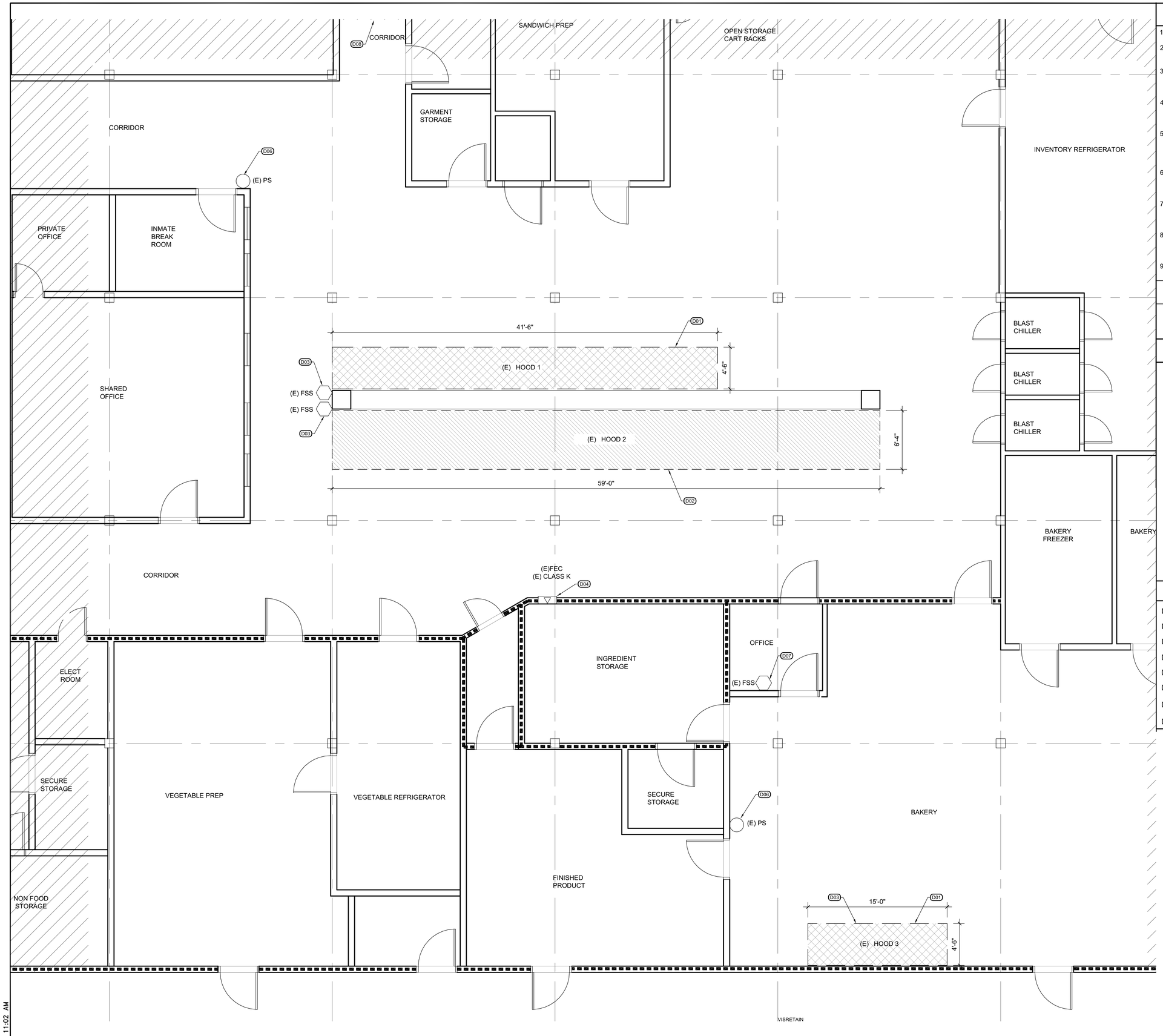
SHEET TITLE: BUILDING C01 - CENTRAL KITCHEN - FLOOR PLAN

CDCR JOB Nos.: 20-434

SHEET NUMBER
AB2.0

V3

2/13/2024 5:30 PM



GENERAL NOTES

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9. FOR STRUCTURAL ANCHORAGE FOR KITCHEN EQUIPMENT SEE SHEET S9.0 AND S9.1

WALL LEGEND

CMU WALL

LEGEND

AREA NOT PART OF THIS PROJECT

EXISTING HOOD TO REMAIN. REPLACE ANSUL SYSTEM PER FS DRAWINGS.

HOOD TO BE DECOMISSIONED. ANSUL SYSTEM TO BE REMOVED. HOOD TO REMAIN. SEE FS DRAWINGS.

FE (E) K-CLASS FIRE EXTINGUISHER

PS (E) PULL STATION LOCATION TO BE REMOVED.

FSS (E) FIRE SUPPRESSION SYSTEM CONTROL BOX

DEMOLITION KEYNOTES

D01 (E) ANSUL SYSTEM TO BE DECOMISSIONED. HOOD TO REMAIN, REMOVE NOZZLES AND TUBING FROM WITHIN THE HOOD. POST SIGNAGE PER DETAIL 2/A9.0

D02 (E) KITCHEN HOOD TO REMAIN.

D03 (E) FIRE SUPPRESSION SYSTEM CONTROL BOX TO BE REMOVED.

D04 (E) FIRE EXTINGUISHER CABINET AND CLASS-K FIRE EXTINGUISHER TO REMAIN.

D05 (E) FIRE EXTINGUISHER CABINET AND CLASS-K FIRE EXTINGUISHER TO REMAIN.

D06 (E) PULL STATION TO BE REMOVED. PATCH, REPAIR AND PAINT ADJACENT SURROUNDINGS TO MATCH (E) CONDITIONS.

D07 (E) FIRE SUPPRESSION SYSTEM TO BE REMOVED. PATCH, REPAIR AND PAINT ADJACENT SURROUNDINGS TO MATCH (E) CONDITIONS.

D08 (E) PULL STATION TO BE REMOVED. PATCH, REPAIR AND PAINT ADJACENT SURROUNDINGS TO MATCH (E) CONDITIONS. SEE AB2.0 FOR LOCATION

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STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS
Project No: 5892.00

HIBSER YAMAUCHI Architects, Inc.
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530.757.4270 office
530.758.4789 fax

LICENSED ARCHITECT
KEN YAMAUCHI
C-26566
02-28-2025
RENEWAL DATE
STATE OF CALIFORNIA

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

SHEET TITLE: BUILDING C01 - CENTRAL KITCHEN - ENLARGED PLAN - DEMOLITION

CDCR SHEET Nos.: 20-034

SHEET NUMBER
AB3.0

V3

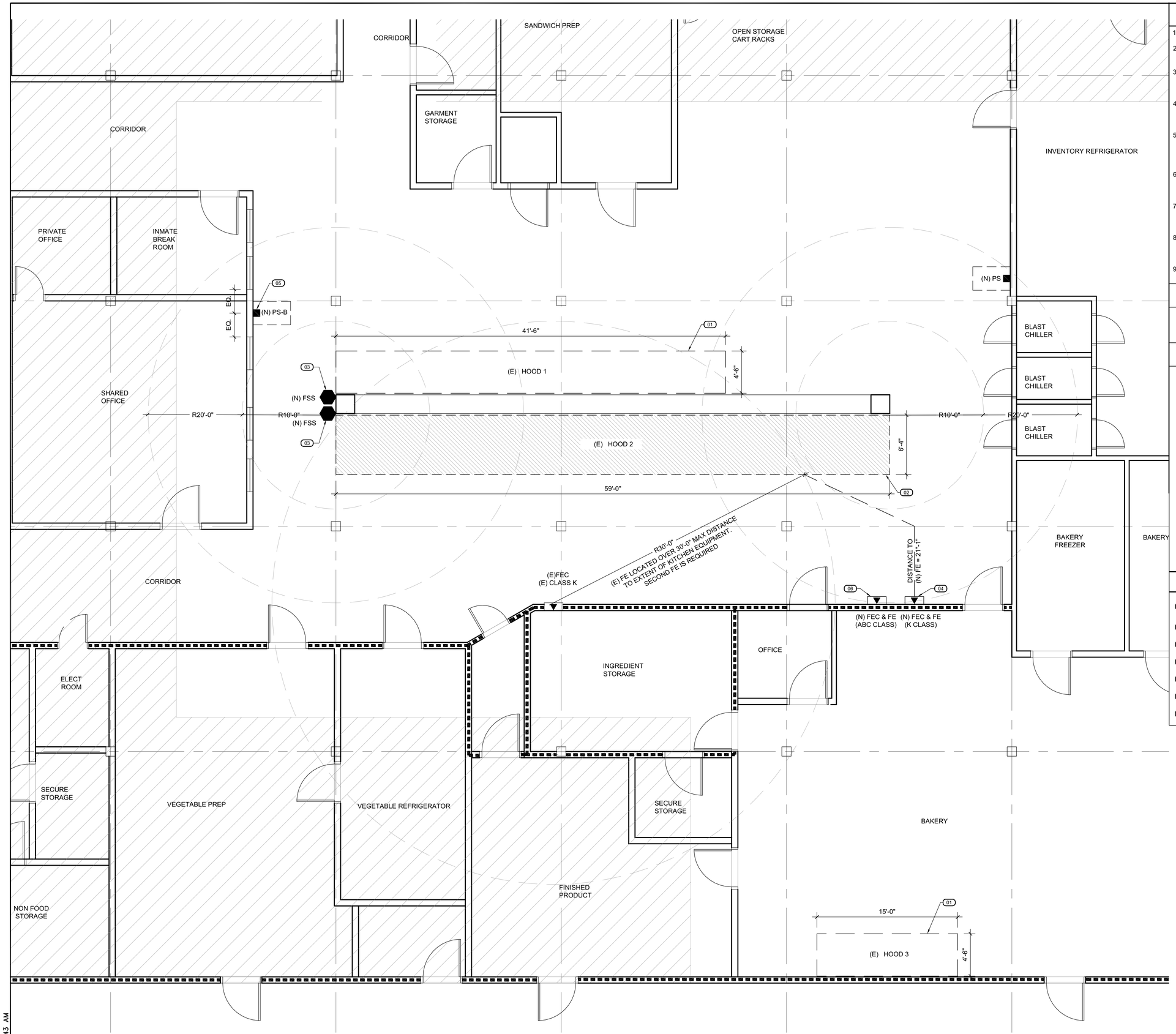
30 BUILDING C01 - CENTRAL KITCHEN - ENLARGED PLAN - DEMOLITION
SCALE: 1/4" - 1'-0"

GRAPHIC SCALE: 0 1' 2' 4' 8' 12' 1/4" = 1'-0"

TRUE NORTH
N

CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

2/14/2024 11:02 AM



GENERAL NOTES

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9. FOR STRUCTURAL ANCHORAGE FOR KITCHEN EQUIPMENT SEE SHEET S9.0 AND S9.1

WALL LEGEND

CMU WALL

LEGEND

AREA NOT PART OF THIS PROJECT

EXISTING HOOD TO REMAIN.
REPLACE ANSUL SYSTEM PER FS DRAWINGS.

DISTANCE FROM FIRE EXTINGUISHER TO COOKING EQUIPMENT. 30 FEET MAXIMUM UNOBSTRUCTED DISTANCE.

FE — (N) K-CLASS FIRE EXTINGUISHER

PS — (N) PULL STATION LOCATION.

FSS — (N) FIRE SUPPRESSION SYSTEM CONTROL BOX

REMODEL KEYNOTES

01 HOOD TO BE DECOMMISSIONED. REMOVE (E) NOZZLES AND TUBING FROM WITHIN THE HOOD. POST SIGNAGE STATING THAT KITCHEN COOKING EQUIPMENT AND COOKING IS PROHIBITED. SEE DETAIL 2/A9.0

02 ANSUL SYSTEM TO BE REPLACED. SEE FS DRAWINGS FOR DETAILS AND EQUIPMENT LOCATIONS.

03 (N) FIRE SUPPRESSION SYSTEM CONTROL BOX. SEE FS DRAWINGS.

04 (N) WALL MOUNTED FIRE EXTINGUISHER CABINET W/ CLASS K FIRE EXTINGUISHER. SEE DETAIL 17/9.0 AND FS DRAWINGS FOR SIZING.

05 (N) WALL MOUNTED PULL STATION. SEE FS DRAWINGS. PROVIDE SIGNAGE INDICATING PULL STATION, PER DETAIL 13/A9.01

06 (N) WALL MOUNTED FIRE EXTINGUISHER CABINET W/ CLASS ABC FIRE EXTINGUISHER, SIZE 2A. SEE DETAIL 17/9.0

07 REPLACE (E) CLASS K FIRE EXTINGUISHER WITH NEW. SEE FS DRAWINGS FOR SIZING.

30 BUILDING C01, CENTRAL KITCHEN - ENLARGED PLAN - REMODEL

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

GRAPHIC SCALE: 0 1' 2' 4' 8' 12' — 1/4" = 1'-0"

TRUE NORTH

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1334 1/8/2025
CASp-491

2/14/2024 9:43 AM

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STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project No: 5892.00
Project Phase: FINAL DRAWINGS

HIBSER YAMAUCHI Architects, Inc.
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530.758.4789 fax

LICENSED ARCHITECT
KEN YAMAUCHI
C-26566
02-28-2025
RENEWAL DATE
STATE OF CALIFORNIA

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

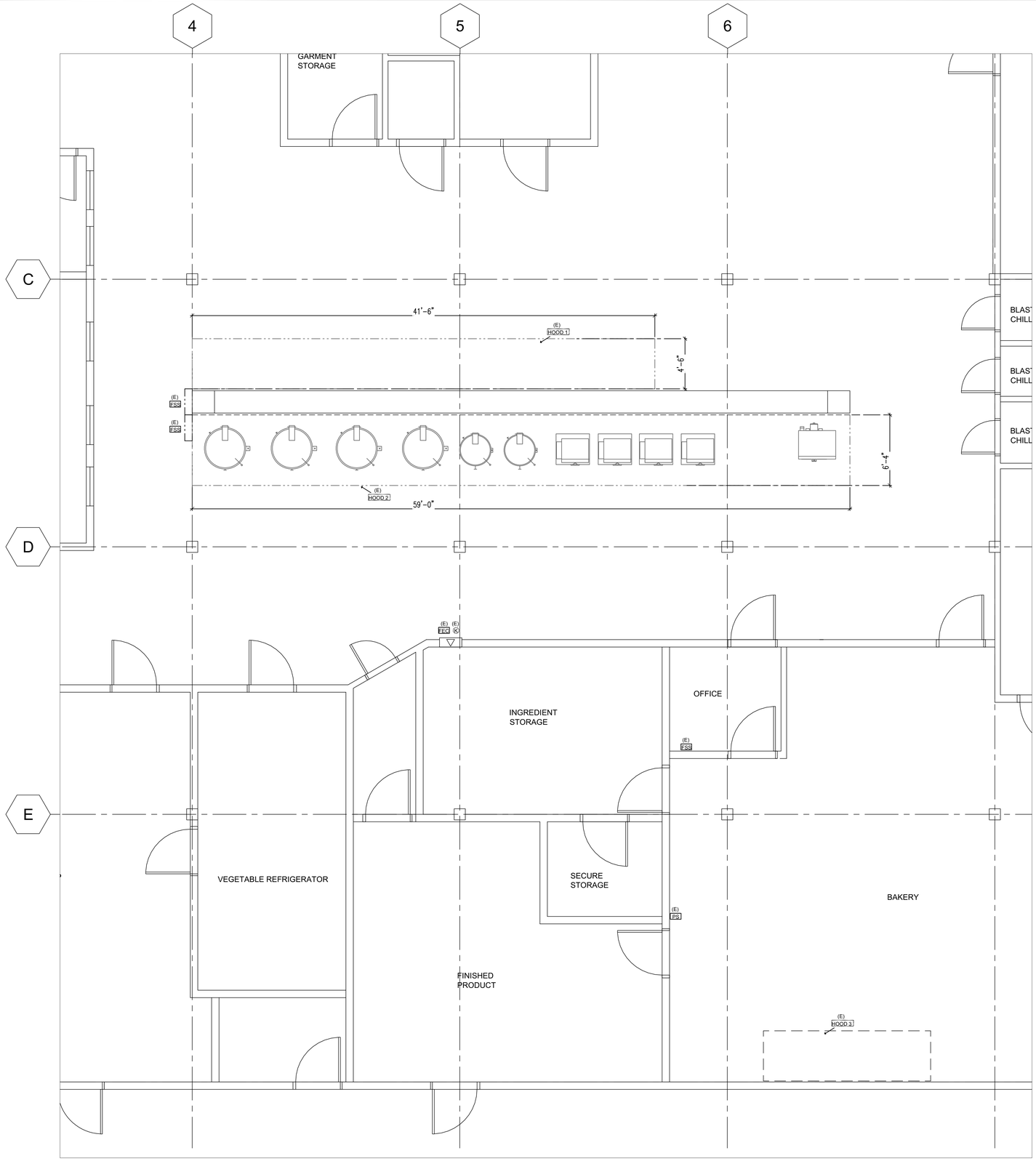
DATE: JULY 19, 2024

SHEET TITLE: BUILDING C01, CENTRAL KITCHEN
ENLARGED PLAN - REMODEL

CDCR Project No.: 20-034

SHEET NUMBER
AB3.1

V3



GENERAL NOTES:

A. ALL EQUIPMENT TO HAVE NSF, ETL SANITATION OR UL SANITATION APPROVALS.

B. INSTALLATION TO MEET CALIFORNIA RETAIL FOOD CODE (CRFC) LATEST EDITION.

FIRE SUPPRESSION CONTRACTOR TO:

A. REMOVE EXISTING FIRE SUPPRESSION SYSTEM AND ALL COMPONENTS.

B. REFER TO ARCHITECTURAL DRAWING SHEET NOTES FOR NOTES AND GUIDELINES REGARDING EXISTING CONDITION GUIDELINES

EXISTING HOODS 1 AND 3: THESE EXISTING HOODS ARE BEING DECOMMISSIONED. REMOVE (E) NOZZLES AND TUBING FROM WITHIN THE HOOD. POST SIGNAGE STATING THAT KITCHEN COOKING EQUIPMENT AND COOKING IS PROHIBITED. SEE DETAIL 2/A9.0

SYMBOLS

(E) FSS — EXISTING FIRE SUPPRESSION SYSTEM; TO BE REMOVED

(E) FEC — EXISTING FIRE EXTINGUISHER CABINET; TO REMAIN

(E) PS — EXISTING FIRE PROTECTION PULL BOX; TO BE REMOVED

(E) K — EXISTING TYPE K FIRE EXTINGUISHER; TO BE REMOVED

30 BLDG C01 CENTRAL KITCHEN HOOD #2 - FIRE SUPPRESSION DEMOPLAN

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

CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

The Marshall Associates, Inc.
Foodservice & Laundry Consultants/Designers
3000 Danville Blvd Suite F-344 Alamo, CA 94507
2129 4th Street Santa Rosa, CA 95404
415/677-1200 Fax 415/677-1210

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION

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Project No.: 5892.00

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LICENSED ARCHITECT
REN YAMAUCHI
C-26566
02-28-2025
RENEWAL DATE
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REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

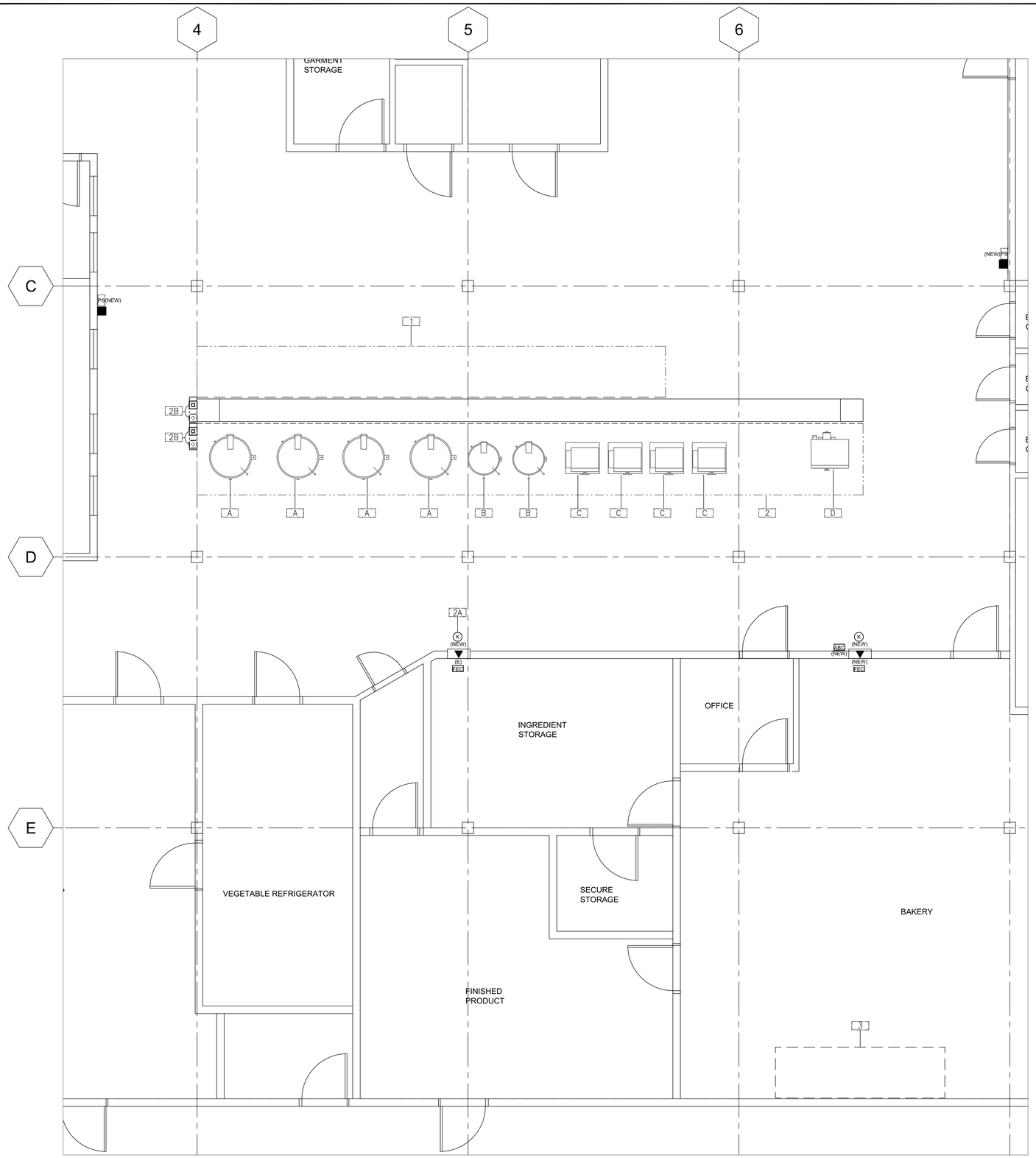
DATE: JULY 19, 2024

SHEET TITLE: BUILDING C01 - CENTRAL KITCHEN
FIRE SUPPRESSION DEMO PLAN

CDCR JOB No.: 20-034

SHEET NUMBER
FS-B1.1

V3



FIRE SUPPRESSION CONTRACTOR TO PROVIDE:

A. WORK AS DESCRIBED IN CONTRACT DOCUMENTS AND SUPPLEMENTAL REQUIREMENTS PER FIRE SUPPRESSION EQUIPMENT SECTION.

B. ROUGH–IN AND FINAL CONNECTION TO ALL FIRE SUPPRESSION EQUIPMENT AS INDICATED ON DRAWINGS AND IN ELECTRICAL ROUGH–IN SCHEDULE.

C. ALL JUNCTION–BOXES, ELECTRICAL OUTLETS, COVER PLATES, SWITCHES NOT BUILT INTO FIXTURES OR EQUIPMENT.

D. SHUNT TRIP CIRCUIT BREAKERS FOR ALL FOODSERVICE EQUIPMENT BELOW EXHAUST HOODS.

E. INCLUDE DORMONT POSI–SET CASTER PLACEMENT SAFETY SYSTEM FOR ALL EXISTING MOBILE COOKING EQUIPMENT BELOW EXISTING HOODS AFTER NEW FIRE SUPPRESSION SYSTEM HAS BEEN INSTALLED. SEE S9.1 FOR DETAIL

F. ALL OTHER EXISTING EQUIPMENT TO BE ANCHORED PER REQUIREMENTS SHOWN ON S9.1

INTERCONNECTION BETWEEN:

A. FIRE PROTECTION SYSTEM AND BUILDING LIFE SAFETY.

SYMBOLS

- PS — NEW FIRE PROTECTION PULL BOX – OCTAGONAL BOX 48" AFF WITH CONDUIT TO CEILING – PYRO CHEM KITCHEN KNIGHT II MODEL RPS–M
- ABC — NEW ABC FIRE EXTINGUISHER SEE SHEET AA3.0 FOR MAKE/MODEL
- (E) FEC — EXISTING FIRE EXTINGUISHER CABINET; TO REMAIN
- K — NEW TYPE K FIRE EXTINGUISHER BUCKEYE; MODEL WC–6L
- JUNCTION BOX ROUGH–IN
- JUNCTION BOX CONNECTION PROVIDED IN EQUIPMENT

EQUIPMENT SCHEDULE

ITEM	QTY	DESCRIPTION	MANUFACTURER	MODEL NUMBER	NOTES
1	1	EXHAUST HOOD	EXISTING; TO BE DECOMMISSIONED	NOT PART OF FSEC CONTRACT	NIC
2	1	EXHAUST HOOD (TYPE–I)	EXISTING; IN PLACE	NOT PART OF FSEC CONTRACT	NIC
2A	1	CLASS K FIRE EXTINGUISHER	BUCKEYE	WC–6L	
2B	1	FIRE PROTECTION SYSTEM	STREIVOR AIR SYSTEMS	PYRO–CHEM KITCHEN KNIGHT II	
3	1	EXHAUST HOOD	EXISTING; TO BE DECOMMISSIONED	NOT PART OF FSEC CONTRACT	NIC
A	4	150 GALLON KETTLES	GROEN (EXISTING)	GT–150 (EXISTING)	NIC
B	2	80–GALLON KETTLES	GROEN (EXISTING)	GT–80 (SPR)	NIC
C	4	STEAMERS	SOUTHBEND (EXISTING)	SC–3–5 (EXISTING)	NIC
D	1	CONVECTION OVEN	VULCAN (EXISTING)	VC44ED (EXISTING)	NIC

ABBREVIATIONS:

FSEC	FOODSERVICE EQUIPMENT CONTRACTOR		
S/S	STAINLESS STEEL	CKT	CIRCUIT
U/C	UNDER COUNTER		
S&T	SOAP AND TOWEL		
NIC	NOT IN CONTRACT		

SCHEDULE / DRAWING NOTES:

ELECTRICAL ROUGH-IN

ITEM	QTY	DESCRIPTION	CONNECTED LOAD 120/1	120/208/1	120/208/3	208/1	208/3	480/3	HT	CONNECTION TYPE C&P	RECP	HW
2	1	EXHAUST HOOD (TYPE–I)	(E)									
2A	1	CLASS K FIRE EXTINGUISHER										
2B	1	FIRE PROTECTION SYSTEM	20A CKT						FA			*

ABBREVIATIONS:

C&P	CORD AND PLUG	STUB	UTILITY UP FROM FLOOR
RECP	RECEPTACLE	DC	DROP CORD WITH RECEPTACLE
HW	HARDWIRE	CKT	CIRCUIT
HT	HEIGHT	E	EXISTING
FA	FROM ABOVE		

SCHEDULE / DRAWING NOTES:

CONNECTED LOAD = EACH CONNECTION SHOWN ON DRAWING

CONNECTION TYPES PROVIDED BY ELECTRICAL DIVISION

CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

30 BLDG C01 CENTRAL KITCHEN HOOD #2 - FIRE SUPPRESSION NEW EQUIPMENT PLAN

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

The Marshall Associates, Inc.
Foodservice & Laundry Consultants/Designers
3000 Danville Blvd Suite F–344 Alamo, CA 94507
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REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

SHEET TITLE: BUILDING C01 - CENTRAL KITCHEN
FIRE SUPPRESSION NEW EQUIPMENT PLAN

CDCR JOB Nos.: 20–034

SHEET NUMBER
FS-B1.2

V3

LISTINGS & STANDARDS

THIS WET CHEMICAL EXTINGUISHING SYSTEM IS ENGINEERED TO PROVIDE FIRE PROTECTION FOR RESTAURANT HOODS, DUCTS AND COOKING APPLIANCES, IS **UL 300** LISTED AND IS TO BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS:

- NFPA 17A 2017 EDITION
- NFPA 10 2018 EDITION
- NFPA 96 2017 EDITION

SECTIONS & CODES

NFPA 10 2018 EDITION

(6.6.2) MAXIMUM TRAVEL DISTANCE SHALL NOT EXCEED 30 FT (9.1 M) FROM THE HAZARD TO THE EXTINGUISHER(S)

NFPA 17A 2017 EDITION

(5.2.1.10.1) EACH MANUAL ACTUATION DEVICE SHALL BE INSTALLED NO MORE THAN 48 IN. (1200 MM) AND NO LESS THAN 42 IN. (1067 MM) ABOVE THE FLOOR.

NFPA 96 2017 EDITION

(8.2.3.1) A HOOD EXHAUST FAN(S) SHALL CONTINUE TO OPERATE AFTER THE EXTINGUISHING SYSTEM HAS BEEN ACTIVATED UNLESS FAN SHUTDOWN IS REQUIRED BY A LISTED COMPONENT OF THE VENTILATION SYSTEM OR BY THE DESIGN OF THE EXTINGUISHING SYSTEM.

(8.2.3.2) THE HOOD EXHAUST FAN SHALL START UPON ACTIVATION OF THE EXTINGUISHING SYSTEM IF THE EXHAUST FAN AND ALL COOKING EQUIPMENT SERVED BY THE FAN HAVE BEEN SHUT DOWN, UNLESS FAN SHUTDOWN IS REQUIRED BY A LISTED COMPONENT OF THE VENTILATION SYSTEM OR BY THE LISTING OF THE EXTINGUISHING SYSTEM.

(8.3.2) WHEN THE FIRE EXTINGUISHING SYSTEM ACTIVATES, MAKEUP AIR SUPPLIED INTERNALLY TO A HOOD SHALL BE SHUT OFF.

(10.4.1) UPON ACTIVATION OF ANY FIRE EXTINGUISHING SYSTEM FOR A COOKING OPERATION, ALL SOURCES OF FUEL AND ELECTRICAL POWER THAT PRODUCE HEAT TO ALL EQUIPMENT REQUIRING PROTECTION BY THAT SYSTEM SHALL AUTOMATICALLY SHUT OFF.

(10.4.3) ANY GAS APPLIANCE NOT REQUIRING PROTECTION BUT LOCATED UNDER VENTILATING EQUIPMENT WHERE PROTECTED APPLIANCES ARE LOCATED SHALL BE AUTOMATICALLY SHUT OFF UPON ACTIVATION OF THE EXTINGUISHING SYSTEM

(10.4.4) SHUTOFF DEVICE SHALL REQUIRE MANUAL RESET.

(10.5.1.1) AT LEAST ONE MANUAL ACTUATION DEVICE SHALL BE LOCATED IN A MEANS OF EGRESS OR AT A LOCATION ACCEPTABLE TO THE AHJ.

(10.5.1.2) THE MANUAL ACTUATION DEVICE SHALL CLEARLY IDENTIFY THE HAZARD PROTECTED.

CMC 2018 EDITION

(513.5) MANUAL ACTIVATION SHALL BE ACCESSIBLE IN THE EVENT OF A FIRE. NOT LESS THAN ONE MANUAL ACTUATION DEVICE SHALL BE LOCATED NOT LESS THAN 10 FEET (3048 MM) AND NOT MORE THAN 20 FEET (6096 MM) FROM THE PROTECTED EXHAUST SYSTEM(S). [BC 2018: 904.12.1]

INSTALLATION REQUIREMENTS

1. ALL PIPE SHALL BE SCHEDULE 40 BLACK IRON. CHROME PLATED/SLEEVED WHERE EXPOSED.
2. ALL CYLINDER SYSTEMS SHALL HAVE 3/8" SUPPLY LINES AND 3/8" BRANCH LINES.
3. ALL WIRE ROPE SHALL BE 1/16" STAINLESS STEEL AND RUN THROUGH 1/2" EMT CONDUIT.
4. U.L. LISTED CORNER PULLEYS REQUIRED WHENEVER THE STAINLESS STEEL CABLE DIRECTION CHANGES.
5. ALL EQUIPMENT WITH FIRE PROTECTION MUST BE SECURED TO FLOOR. (NOT BY STREIVOR)
6. SWIVEL ADAPTERS MAY BE ADDED TO NOZZLES FOR UP TO 30° ROTATION.

SYSTEM #2

PAGE NUMBERS REFERENCED FROM THE PYROCHEM FIRE SUPPRESSION SYSTEM TECHNICAL MANUAL

CABLE/LINE LIMITATIONS - CONTROL HEAD B

		LENGTH		PULLEYS	BRACKETS
FUSIBLE LINK (pg. 4-5)	MAXIMUM	150.00	FT	40	20
	ALLOTTED	65.00	FT	16	6 *
PULL STATION(S) (pg. 4-9)	MAXIMUM	150.00	FT	40	N/A
	ALLOTTED	25.00	FT	2	N/A
GAS VALVE(S) (pg. 4-10)	MAXIMUM	100.00	FT	30	N/A
	ALLOTTED	--.--	FT	--	N/A

*ML STYLE FUSIBLE LINK INCLUDED WITH SYSTEM (NOT SUPPLIED BY STREIVOR). FUSIBLE LINK TEMPERATURE RATING TO BE VERIFIED AND DETERMINED IN FIELD.

CYLINDER #3

COVERAGE DESCRIPTION	NOZZLE	QTY.	FLOW POINTS	PAGE
DUCT	2D	4	8	3-1
PLENUM	1H	4	4	3-3

MODEL	FLOW POINTS		
PCL-460	12	ALLOTTED	14 MAXIMUM

TOTAL				FIRST TO LAST NOZZLE			
LENGTH**		VOLUME		LENGTH**		VOLUME	
68.00	FT	2550	ML	66.00	FT	2475	ML

CYLINDER #-

COVERAGE DESCRIPTION	NOZZLE	QTY.	FLOW POINTS	PAGE

MODEL	FLOW POINTS	
	ALLOTTED	MAXIMUM

TOTAL				FIRST TO LAST NOZZLE			
LENGTH**		VOLUME		LENGTH**		VOLUME	
FT		ML		FT		ML	

CYLINDER/PIPING LIMITATIONS

CYLINDER	FLOW POINTS	TOTAL				FIRST TO LAST NOZZLE			
		LENGTH*		VOLUME		LENGTH*		VOLUME	
PCL-460	15	69.33	FT	2600	ML	53.33	FT	2000	ML
PCL-460	14	90.67	FT	3400	ML	80.00	FT	3000	ML
PCL-300	10	50.93	FT	1910	ML	30.00	FT	1125	ML
PCL-160	5	40.00	FT	1500	ML	16.00	FT	600	ML

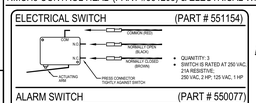
** CALCULATIONS BASED ON 3/8" PIPE (37.5 ML/FT) (SEE pg. 3-18)

LEGEND

- PATH OF EGRESS
- DETECTION LINE ROUTE
- K-CLASS FIRE EXTINGUISHER (NOT SUPPLIED BY STREIVOR)
- GAS VALVE
- PULL STATION
- RESET RELAY
- CONTROL HEAD
- DETECTOR BRACKET (FRONT VIEW)
- DETECTOR BRACKET (PLAN VIEW)
- NOZZLE COVERAGE
- PAC-10 PNEUMATIC TUBING
- FIELD PIPING
- FIELD WIRING NOT BY STRIEVOR
- DUCT NOZZLE MAX PERIMETER
- PLENUM NOZZLE MAX PLENUM LENGTH
- APPLIANCE NOZZLE AND HEIGHT
- DOWNWARD FACING NOZZLE
- ANGLED NOZZLE AND TARGET LOCATION

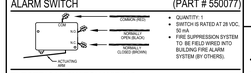
NMCH3 CONTROL HEAD (PART #551203) & ELECTRICAL WIRING

ELECTRICAL SWITCH (PART # 551154)

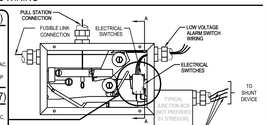


- QUANTITY: 3
- SWITCH IS RATED AT 250 VAC, 21A RESISTIVE; 250 VAC, 2 HP; 125 VAC, 1 HP

ALARM SWITCH (PART # 550077)



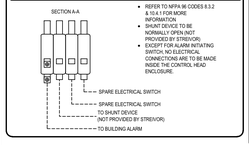
- QUANTITY: 1
- SWITCH IS RATED AT 28 VDC, 50 mA
- FIRE SUPPRESSION SYSTEM TO BE FIELD WIRED INTO BUILDING FIRE ALARM SYSTEM (BY OTHERS).



ELECTRICAL CONNECTIONS TO BE MADE OUTSIDE OF CONTROL HEAD FIELD WIRING BY OTHERS

- EXCEPT FOR ALARM INITIATING SWITCH, NO ELECTRICAL CONNECTIONS ARE TO BE MADE INSIDE THE CONTROL HEAD ENCLOSURE.

ELECTRICAL SWITCH WIRING



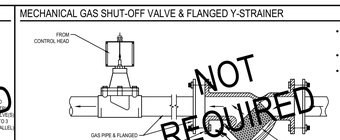
- REFER TO NFPA 96 CODES 8.3.2 & 10.4.1 FOR MORE INFORMATION
- ALL WIRING TO BE NORMALLY OPEN (NOT PROVIDED BY STREIVOR)
- EXCEPT FOR ALARM INITIATING SWITCH, NO ELECTRICAL CONNECTIONS ARE TO BE MADE INSIDE THE CONTROL HEAD ENCLOSURE.

RESET RELAY

- REFER TO MANUAL RESET RELAY INSTRUCTIONS FOR MORE INFORMATION

MECHANICAL GAS SHUT-OFF VALVE & FLANGED Y-STRAINER

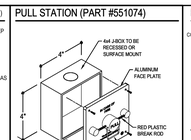
(SEE MEP DRAWINGS FOR LOCATION)



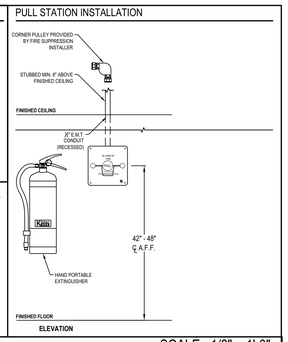
- GAS SHUT-OFF VALVE(S) TO BE SIZED AND LOCATED PER MEP DRAWINGS
  (MAXIMUM VALVE SIZE: 3" NPT)
- VALVE(S) AND STRAINERS TO BE INSTALLED BY DIVISION 22 (PLUMBING)
- Y-STRAINER REQUIRED FOR THE PROTECTION OF THE GAS VALVE. INSTALL A Y-STRAINER ON THE INLET SIDE OF THE GAS VALVE (AS CLOSE AS POSSIBLE).

Y-STRAINER NOT PROVIDED BY STREIVOR UNLESS SPECIFICALLY INCLUDED IN PURCHASE ORDER.

PULL STATION (PART #551074)

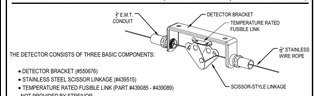


PULL STATION INSTALLATION



DETECTORS

(Series #435546 | Terminal #435547)



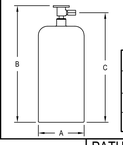
THE DETECTOR CONSISTS OF THREE BASIC COMPONENTS:

- DETECTOR BRACKET (#550676)
- STAINLESS STEEL SCISSOR LINKAGE (#439515)
- TEMPERATURE RATED FUSIBLE LINK (PART #435085 - #439089)
  NOT PROVIDED BY STREIVOR

THE SCISSOR STYLE DETECTOR ALLOWS THE WIRE ROPE TO BE STRUNG CONTINUOUSLY THROUGH THE DETECTION SYSTEM CONDUIT AND BRACKETS FIRST. THEN THE DETECTOR LINKAGE ASSEMBLIES ARE CLIPPED ON LATER.

*A-PC/SL STYLE FUSIBLE LINK TO BE PROVIDED BY INSTALLER (TEMP RATING TO BE VERIFIED AND DETERMINED IN FIELD)

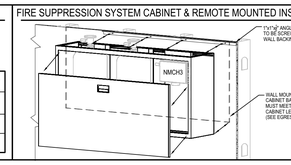
CYLINDER DETAILS



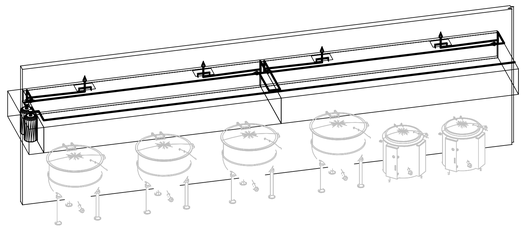
*CYLINDERS COME PRE-FILLED WITH EXTINGUISHING AGENT AND ARE CHARGED WITH DRY NITROGEN TO A PRESSURE OF 225 PSIG @ 70° F (15.5 BAR @ 21° C).

MODEL NO.	A	B	C	WEIGHT
PLC-160 (PART #550163)	8.00 IN	17.75 IN	15.44 IN	34 LBS.
PLC-300 (PART #551194)	8.00 IN	25.06 IN	22.75 IN	53 LBS.
PLC-460 (PART #551193)	10.00 IN	25.06 IN	22.75 IN	83 LBS.

FIRE SUPPRESSION SYSTEM CABINET & REMOTE MOUNTED INSTALLATION

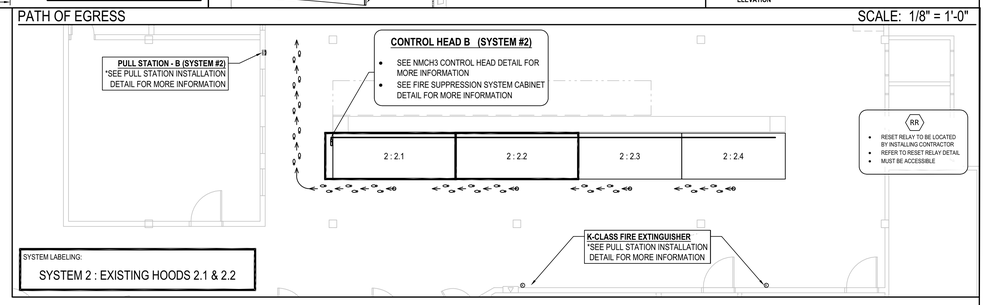


- 36" MINIMUM CLEARANCE REQUIRED IN FRONT OF THE REMOVABLE CABINET DOOR.
- SUPPORT BACKING REQUIRED IF CABINET MOUNTS TO WALL
- CABINET AND FIRE SUPPRESSION SYSTEM COMPONENTS APPROXIMATELY 100 LBS/FT. SEE PATH OF EGRESS DRAWING FOR CABINET DIMENSION(S).

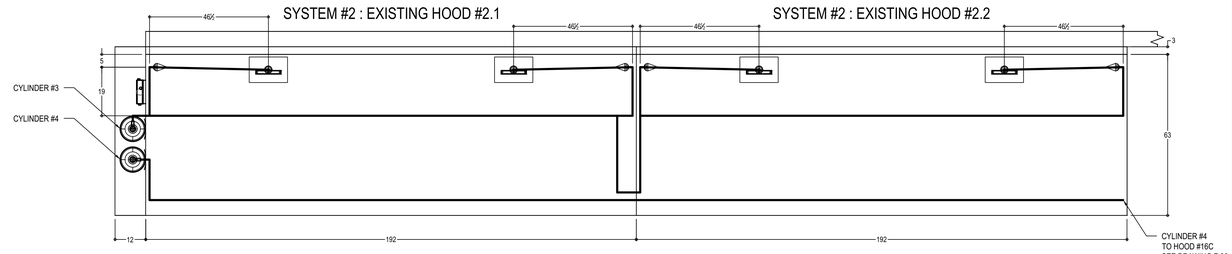


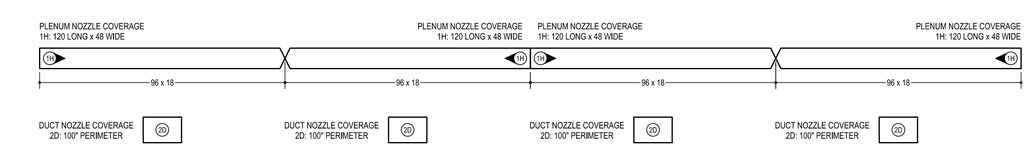
PATH OF EGRESS

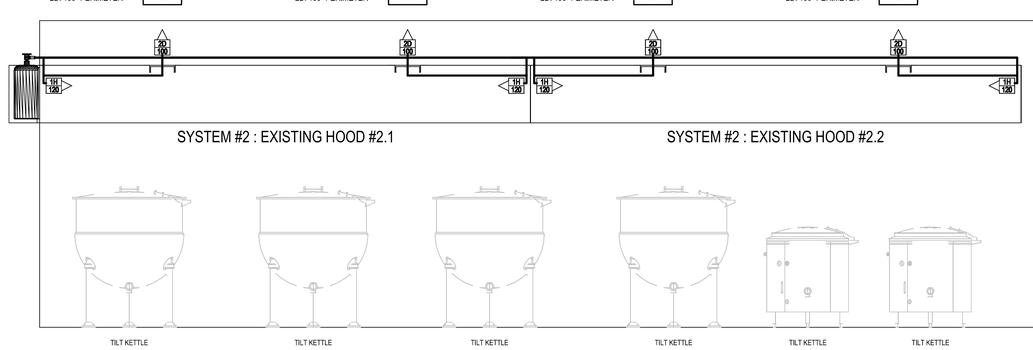
SCALE: 1/8" = 1'-0"



NOTE: ALL PIPING FOR FIRE SUPPRESSION SYSTEM TO BE FIELD INSTALLED BY A STREIVOR APPOINTED LICENSED FIRE SUPPRESSION SYSTEM INSTALLER







INSTALLER:

GENERAL NOTES:

NOTES TO ARCHITECT AND/OR CONTRACTOR: STREIVOR, INC. (STREIVOR AIR SYSTEMS, STREIVOR STAINLESS) IS A SPECIALIST IN THE LAYOUT AND DESIGN OF KITCHEN VENTILATION SYSTEMS, AND IN NO WAY PURPORTS TO BE ARCHITECTS OR ENGINEERS.

THIS PLAN IS SUBMITTED FOR THE CONVENIENCE OF THE ARCHITECT AND/OR CONTRACTOR AND IS DONE FROM AVAILABLE ARCHITECTURAL INFORMATION. ALL MEASUREMENTS ARE SUBJECT TO PHYSICAL VERIFICATION AND ANY DEVIATIONS OR DISCREPANCIES SHALL BE DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN WRITING.

STREIVOR, INC. ACCEPTS NO RESPONSIBILITY FOR WORK DONE BY SAID ARCHITECT OR GENERAL CONTRACTOR OR THEIR REPRESENTATIVES OR SUBCONTRACTORS, AND WILL NOT STAND ANY EXPENSE FOR CHANGES MADE NECESSARY DUE TO LOCAL BUILDING CODES, ORDINANCES, STRUCTURAL CONDITIONS, OR BY ANY SUBSTITUTIONS OR CHANGES IN EQUIPMENT SHOWN ON THIS PLAN.

ANY ERRORS, AMBIGUITIES OR OMISSIONS IN THIS PLAN OR SPECIFICATIONS SHALL BE REPORTED TO STREIVOR, INC. FOR CORRECTIONS BEFORE ANY OF THE WORK IS STARTED. UNLESS EXPRESSLY STIPULATED, NO ADDITIONAL ALLOWANCE WILL BE MADE IN FAVOR OF THE OWNER OR CONTRACTOR BY VIRTUE OF ERROR, AMBIGUITY OR OMISSION WHICH MAY HAVE BEEN CORRECTED AFTER THE WORK HAS BEEN STARTED. ESTIMATES AND DIRECTED TO THE ATTENTION OF STREIVOR, INC IN A TIMELY MANNER.

CUSTOMER APPROVAL

COOKING EQUIPMENT VERIFICATION

VERIFY THE FOLLOWING:

HIGH BACK SHELVES	YES ☐	NO ☐
RANGE COOKING SURFACE DEPTH GREATER THAN 28"	YES ☐	NO ☐
PULL STATION LOCATION(S)	YES ☐	NO ☐
UTILITY CABINET LOCATION(S)	YES ☐	NO ☐
AGENT DISTRIBUTION HOSE AND RESTRAINING CABLE KIT	YES ☐	NO ☐
CEILING HEIGHT	___'- ___"	

APPROVED BY DATE

NOTE TO REVIEWER:
ANY CHANGES TO COOKING EQUIPMENT SUCH AS EQUIPMENT POSITION, TYPE AND/OR INCREASE IN ENERGY OUTPUT MAY EFFECT EXHAUST AIRFLOW. STREIVOR AIR SYSTEMS MUST BE NOTIFIED OF ANY CHANGES THAT OCCUR PRIOR TO FABRICATION, A RE-ENGINEERING OF THE EXHAUST AIRFLOW MAY BE REQUIRED. ADDITIONAL SITE VISIT FOR FIRE SUPPRESSION PRE-TEST IS NOT INCLUDED UNLESS SPECIFICALLY LISTED IN QUOTE.

PROJECT:

CDCR PELICAN BAY

5905 LAKE EARL DRIVE
CRESCENT CITY, CA 95531

THE MARSHALL ASSOCIATES

ITEM #:	17
SYSTEM #:	2
HOOD #:	16A & 16B
DATE:	04/11/2023
DRAWN BY:	KCS
CHECKED BY:	SWB
CONSULTANT:	THE MARSHALL ASSOCIATES
SCALE: (UNLESS OTHERWISE NOTED)	1/2" = 1' - 0"

IF BAR DOES NOT MEASURE 1" THE DRAWING IS NOT PLOTTED TO SCALE

	DESCRIPTION	DATE	INT
△	---	--/--/--	---
△	---	--/--/--	---
△	---	--/--/--	---
△	---	--/--/--	---
△	---	--/--/--	---

DRAWING:

F-02

SHEET 02 OF 11

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CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

The Marshall Associates, Inc.
Foodservice & Laundry Consultants/Designers
3000 Danville Blvd Suite F-344 Alamo, CA 94507
2129 4th Street Santa Rosa, CA 95404
415/677-1200 Fax 415/677-1210

STREIVOR™ AIR SYSTEMS
"STRIVING FOR EXCELLENCE"
2150 KITTY HAWK ROAD, LIVERMORE, CA 94551
PHONE: (925) 960-9090 FAX:(925) 960-9055
WWW.STREIVOR.COM

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
11/04/24
23-5898
Approval of this plan does not authorize or approve any omission or deviation from applicable requirements. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

REV.	DATE:	DESCRIPTION

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS
Project No.: 5882.00

HIBSER YAMAUCHI Architects, Inc.
4602 2nd Street, Suite #3
Davis, CA 95618
530.758.1270 office
530.758.4789 fax

LICENSED ARCHITECT
KEN YAMAUCHI
C-26566
02-28-2025
RENEWAL DATE
STATE OF CALIFORNIA

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024
SHEET TITLE: BUILDING C01 - ADMIN BUILDING FIRE SUPPRESSION MFR PLAN
CDCR FORM NOs.: 20-104

SHEET NUMBER
FS-B1.3

V3

LISTINGS & STANDARDS

THIS WET CHEMICAL EXTINGUISHING SYSTEM IS ENGINEERED TO PROVIDE FIRE PROTECTION FOR RESTAURANT HOODS, DUCTS AND COOKING APPLIANCES, IS **UL 300** LISTED AND IS TO BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS:

- NFPA 17A 2017 EDITION
- NFPA 10 2018 EDITION
- NFPA 96 2017 EDITION

SECTIONS & CODES

NFPA 10 2018 EDITION

(6.6.2) MAXIMUM TRAVEL DISTANCE SHALL NOT EXCEED 30 FT (9.1 M) FROM THE HAZARD TO THE EXTINGUISHER(S)

NFPA 17A 2017 EDITION

(5.2.1.10.1) EACH MANUAL ACTUATION DEVICE SHALL BE INSTALLED NO MORE THAN 48 IN. (1200 MM) AND NO LESS THAN 42 IN. (1067 MM) ABOVE THE FLOOR.

NFPA 96 2017 EDITION

(8.2.3.1) A HOOD EXHAUST FAN(S) SHALL CONTINUE TO OPERATE AFTER THE EXTINGUISHING SYSTEM HAS BEEN ACTIVATED UNLESS FAN SHUTDOWN IS REQUIRED BY A LISTED COMPONENT OF THE VENTILATION SYSTEM OR BY THE DESIGN OF THE EXTINGUISHING SYSTEM.

(8.2.3.2) THE HOOD EXHAUST FAN SHALL START UPON ACTIVATION OF THE EXTINGUISHING SYSTEM IF THE EXHAUST FAN AND ALL COOKING EQUIPMENT SERVED BY THE FAN HAVE BEEN SHUT DOWN, UNLESS FAN SHUTDOWN IS REQUIRED BY A LISTED COMPONENT OF THE VENTILATION SYSTEM OR BY THE LISTING OF THE EXTINGUISHING SYSTEM.

(8.3.2) WHEN THE FIRE EXTINGUISHING SYSTEM ACTIVATES, MAKEUP AIR SUPPLIED INTERNALLY TO A HOOD SHALL BE SHUT OFF.

(10.4.1) UPON ACTIVATION OF ANY FIRE EXTINGUISHING SYSTEM FOR A COOKING OPERATION, ALL SOURCES OF FUEL AND ELECTRICAL POWER THAT PRODUCE HEAT TO ALL EQUIPMENT REQUIRING PROTECTION BY THAT SYSTEM SHALL AUTOMATICALLY SHUT OFF.

(10.4.3) ANY GAS APPLIANCE NOT REQUIRING PROTECTION BUT LOCATED UNDER VENTILATING EQUIPMENT WHERE PROTECTED APPLIANCES ARE LOCATED SHALL BE AUTOMATICALLY SHUT OFF UPON ACTIVATION OF THE EXTINGUISHING SYSTEM.

(10.4.4) SHUTOFF DEVICE SHALL REQUIRE MANUAL RESET.

(10.5.1.1) AT LEAST ONE MANUAL ACTUATION DEVICE SHALL BE LOCATED IN A MEANS OF EGRESS OR AT A LOCATION ACCEPTABLE TO THE AHJ.

(10.5.1.2) THE MANUAL ACTUATION DEVICE SHALL CLEARLY IDENTIFY THE HAZARD PROTECTED.

CMC 2018 EDITION

(513.5) MANUAL ACTIVATION SHALL BE ACCESSIBLE IN THE EVENT OF A FIRE. NOT LESS THAN ONE MANUAL ACTUATION DEVICE SHALL BE LOCATED NOT LESS THAN 10 FEET (3048 MM) AND NOT MORE THAN 20 FEET (6096 MM) FROM THE PROTECTED EXHAUST SYSTEM(S). [BC 2018: 904.12.1]

INSTALLATION REQUIREMENTS

1. ALL PIPE SHALL BE SCHEDULE 40 BLACK IRON. CHROME PLATED/SLEEVED WHERE EXPOSED.
2. ALL CYLINDER SYSTEMS SHALL HAVE 3/8" SUPPLY LINES AND 3/8" BRANCH LINES.
3. ALL WIRE ROPE SHALL BE 1/16" STAINLESS STEEL AND RUN THROUGH 1/2" EMT CONDUIT.
4. U.L. LISTED CORNER PULLEYS REQUIRED WHENEVER THE STAINLESS STEEL CABLE DIRECTION CHANGES.
5. ALL EQUIPMENT WITH FIRE PROTECTION MUST BE SECURED TO FLOOR. (NOT BY STREVOR)
6. SWIVEL ADAPTERS MAY BE ADDED TO NOZZLES FOR UP TO 30° ROTATION.

SYSTEM #2

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	ALLOTTED	65.00	FT	16	6 *
PULL STATION(S) (pg. 4-9)	MAXIMUM	150.00	FT	40	N/A
	ALLOTTED	25.00	FT	2	N/A
GAS VALVE(S) (pg. 4-10)	MAXIMUM	100.00	FT	30	N/A
	ALLOTTED	--.--	FT	--	N/A

*ML STYLE FUSIBLE LINK INCLUDED WITH SYSTEM (NOT SUPPLIED BY STREVOR). FUSIBLE LINK TEMPERATURE RATING TO BE VERIFIED AND DETERMINED IN FIELD.

CYLINDER #4

COVERAGE DESCRIPTION	NOZZLE	QTY.	FLOW POINTS	PAGE
DUCT	2D	2	4	3-1
PLENUM	1H	4	4	3-3

MODEL	FLOW POINTS			
PCL-460	8	ALLOTTED	14	MAXIMUM

TOTAL				FIRST TO LAST NOZZLE			
LENGTH**		VOLUME		LENGTH**		VOLUME	
76.00	FT	2850	ML	41.00	FT	1538	ML

CYLINDER #-

COVERAGE DESCRIPTION	NOZZLE	QTY.	FLOW POINTS	PAGE

MODEL	FLOW POINTS			
		ALLOTTED		MAXIMUM

TOTAL				FIRST TO LAST NOZZLE			
LENGTH**		VOLUME		LENGTH**		VOLUME	
FT		ML		FT		ML	

CYLINDER/PIPING LIMITATIONS

CYLINDER	FLOW POINTS	TOTAL				FIRST TO LAST NOZZLE			
		LENGTH*		VOLUME		LENGTH*		VOLUME	
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PCL-160	5	40.00	FT	1500	ML	16.00	FT	600	ML

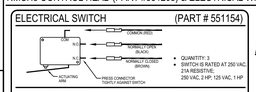
** CALCULATIONS BASED ON 3/8" PIPE (37.5 ML/FT) (SEE pg. 3-18)

LEGEND

- PATH OF EGRESS
- DETECTION LINE ROUTE
- K-CLASS FIRE EXTINGUISHER (NOT SUPPLIED BY STREVOR)
- GAS VALVE
- PULL STATION
- RESET RELAY
- CONTROL HEAD
- DETECTOR BRACKET (FRONT VIEW)
- DETECTOR BRACKET (PLAN VIEW)
- NOZZLE COVERAGE
- PAC-10 PNEUMATIC TUBING
- FIELD PIPING
- FIELD WIRING NOT BY STRIEVOR
- DUCT NOZZLE MAX PERIMETER
- PLENUM NOZZLE MAX PLENUM LENGTH
- APPLIANCE NOZZLE AND HEIGHT
- DOWNWARD FACING NOZZLE
- ANGLED NOZZLE AND TARGET LOCATION

NMCH3 CONTROL HEAD (PART #551203) & ELECTRICAL WIRING

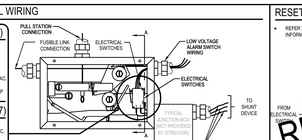
ELECTRICAL SWITCH (PART # 551154)



- QUANTITY: 3
- SWITCH IS RATED AT 250 VAC, 21A RESISTIVE; 250 VAC, 2 HP; 125 VAC, 1 HP

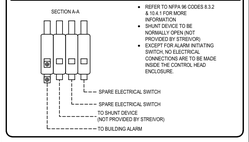
ALARM SWITCH (PART # 550077)

- QUANTITY: 1
- SWITCH IS RATED AT 28 VDC, 50 mA
- FIRE SUPPRESSION SYSTEM TO BE FIELD WIRED INTO BUILDING FIRE ALARM SYSTEM (BY OTHERS).



- EXCEPT FOR ALARM INITIATING SWITCH, NO ELECTRICAL CONNECTIONS ARE TO BE MADE INSIDE THE CONTROL HEAD ENCLOSURE.

ELECTRICAL SWITCH WIRING



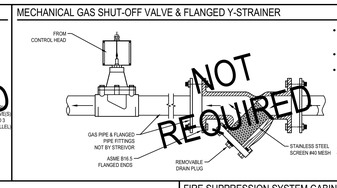
- REFER TO NFPA 96 CODES 8.3.2 & 10.4.1 FOR MORE INFORMATION
- ALL WIRING TO BE "NORMALLY OPEN (NO)" PROVIDED BY STREVOR)
- EXCEPT FOR ALARM INITIATING SWITCH, NO ELECTRICAL CONNECTIONS ARE TO BE MADE INSIDE THE CONTROL HEAD ENCLOSURE.

RESET RELAY

- REFER TO MANUAL RESET RELAY INSTRUCTIONS FOR MORE INFORMATION

MECHANICAL GAS SHUT-OFF VALVE & FLANGED Y-STRAINER

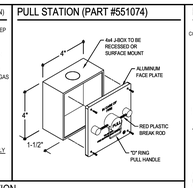
(SEE MEP DRAWINGS FOR LOCATION)



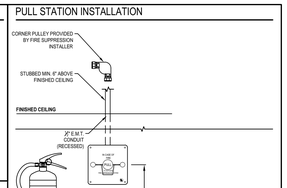
- GAS SHUT-OFF VALVE(S) TO BE SIZED AND LOCATED PER MEP DRAWINGS **(MAXIMUM VALVE SIZE: 3" NPT)**
- VALVE(S) AND STRAINERS TO BE INSTALLED BY DIVISION 22 (PLUMBING)
- Y-STRAINER REQUIRED FOR THE PROTECTION OF THE GAS VALVE. INSTALL A Y-STRAINER ON THE INLET SIDE OF THE GAS VALVE (AS CLOSE AS POSSIBLE).

Y-STRAINER NOT PROVIDED BY STREVOR UNLESS SPECIFICALLY INCLUDED IN PURCHASE ORDER.

PULL STATION (PART #551074)

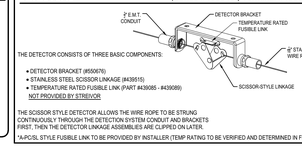


PULL STATION INSTALLATION



DETECTORS

(Series #435546 | Terminal #435547)



THE DETECTOR CONSISTS OF THREE BASIC COMPONENTS:

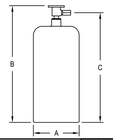
- DETECTOR BRACKET (#550676)
- STAINLESS STEEL SCISSOR LINKAGE (#439515)
- TEMPERATURE RATED FUSIBLE LINK (PART #435085 - #439089)

NOT PROVIDED BY STREVOR

THE SCISSOR STYLE DETECTOR ALLOWS THE WIRE ROPE TO BE STRUNG CONTINUOUSLY THROUGH THE DETECTION SYSTEM CONDUIT AND BRACKETS FIRST. THEN THE DETECTOR LINKAGE ASSEMBLIES ARE CLIPPED ON LATER.

*A-PC/SL STYLE FUSIBLE LINK TO BE PROVIDED BY INSTALLER (TEMP RATING TO BE VERIFIED AND DETERMINED IN FIELD)

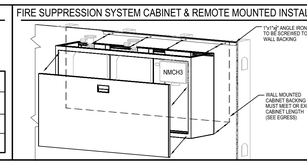
CYLINDER DETAILS



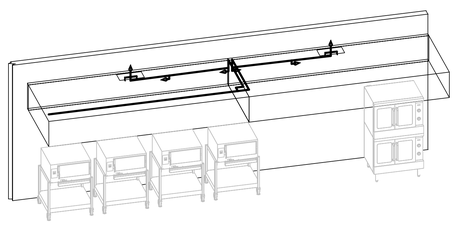
*CYLINDERS COME PRE-FILLED WITH EXTINGUISHING AGENT AND ARE CHARGED WITH DRY NITROGEN TO A PRESSURE OF 225 PSIG @ 70° F (15.5 BAR @ 21° C).

MODEL NO.	A	B	C	WEIGHT
PLC-160 (PART #550163)	8.00 IN	17.75 IN	15.44 IN	34 LBS.
PLC-300 (PART #551194)	8.00 IN	25.06 IN	22.75 IN	53 LBS.
PLC-460 (PART #551193)	10.00 IN	25.06 IN	22.75 IN	83 LBS.

FIRE SUPPRESSION SYSTEM CABINET & REMOTE MOUNTED INSTALLATION



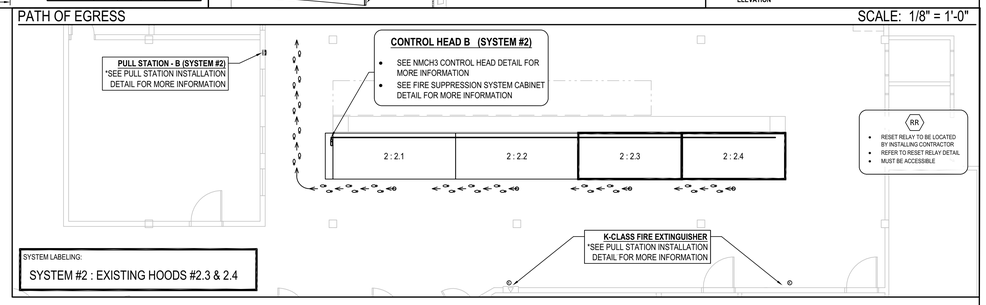
- 36" MINIMUM CLEARANCE REQUIRED IN FRONT OF THE REMOVABLE CABINET DOOR.
- SUPPORT BACKING REQUIRED IF CABINET MOUNTS TO WALL
- CABINET AND FIRE SUPPRESSION SYSTEM COMPONENTS APPROXIMATELY 100 LBS/FT. SEE PATH OF EGRESS DRAWING FOR CABINET DIMENSION(S).



NOTE: ALL PIPING FOR FIRE SUPPRESSION SYSTEM TO BE FIELD INSTALLED BY A STREIVOR APPOINTED LICENSED FIRE SUPPRESSION SYSTEM INSTALLER

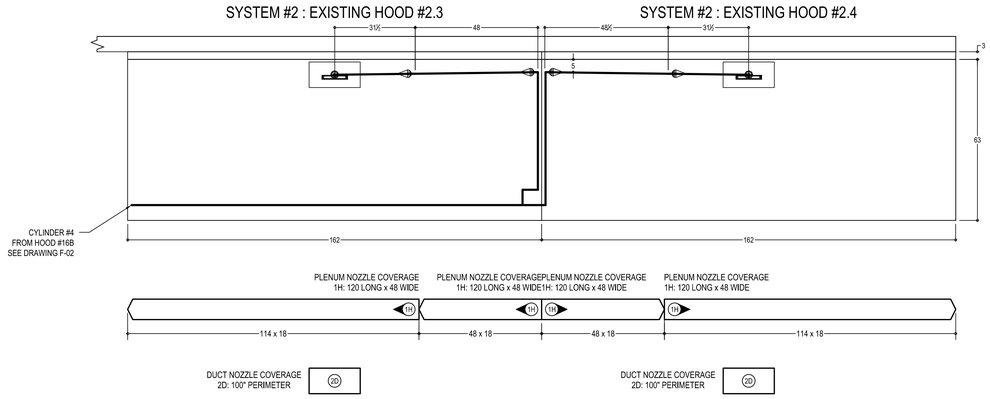
PATH OF EGRESS

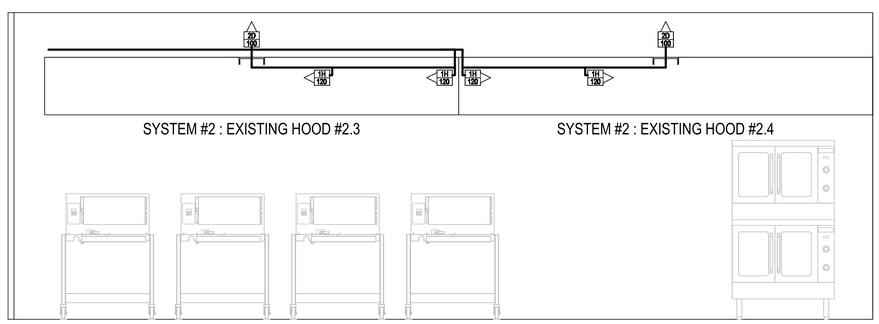
SCALE: 1/8" = 1'-0"



SYSTEM LABELING:

SYSTEM #2 : EXISTING HOODS #2.3 & 2.4





INSTALLER:

GENERAL NOTES:

NOTES TO ARCHITECT AND/OR CONTRACTOR: STREIVOR, INC. (STREIVOR AIR SYSTEMS, STREIVOR STAINLESS) IS A SPECIALIST IN THE LAYOUT AND DESIGN OF KITCHEN VENTILATION SYSTEMS, AND IN NO WAY PURPORTS TO BE ARCHITECTS OR ENGINEERS.

THIS PLAN IS SUBMITTED FOR THE CONVENIENCE OF THE ARCHITECT AND/OR CONTRACTOR AND IS DONE FROM AVAILABLE ARCHITECTURAL INFORMATION. ALL MEASUREMENTS ARE SUBJECT TO PHYSICAL VERIFICATION AND ANY DEVIATIONS OR DISCREPANCIES SHALL BE DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN WRITING.

STREIVOR, INC. ACCEPTS NO RESPONSIBILITY FOR WORK DONE BY SAID ARCHITECT OR GENERAL CONTRACTOR OR THEIR REPRESENTATIVES OR SUBCONTRACTORS, AND WILL NOT STAND ANY EXPENSE FOR CHANGES MADE NECESSARY DUE TO LOCAL BUILDING CODES, ORDINANCES, STRUCTURAL CONDITIONS, OR BY ANY SUBSTITUTIONS OR CHANGES IN EQUIPMENT SHOWN ON THIS PLAN.

ANY ERRORS, AMBIGUITIES OR OMISSIONS IN THIS PLAN OR SPECIFICATIONS SHALL BE REPORTED TO STREIVOR, INC. FOR CORRECTIONS BEFORE ANY OF THE WORK IS STARTED. UNLESS EXPRESSLY STIPULATED, NO ADDITIONAL ALLOWANCE WILL BE MADE IN FAVOR OF THE OWNER OR CONTRACTOR. BY VIRTUE OF ERROR, AMBIGUITY OR OMISSION WHICH HAS NOT BEEN REPORTED AND CORRECTED PRIOR TO THE SUBMITTING OF ESTIMATES, AND DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN A TIMELY MANNER.

CUSTOMER APPROVAL

COOKING EQUIPMENT VERIFICATION

VERIFY THE FOLLOWING:

HIGH BACK SHELVES	YES ☐	NO ☐
RANGE COOKING SURFACE DEPTH GREATER THAN 28"	YES ☐	NO ☐
PULL STATION LOCATION(S)	YES ☐	NO ☐
UTILITY CABINET LOCATION(S)	YES ☐	NO ☐
AGENT DISTRIBUTION HOSE AND RESTRAINING CABLE KIT	YES ☐	NO ☐
CEILING HEIGHT	___'- ___"	

APPROVED BY DATE

NOTE TO REVIEWER:
ANY CHANGES TO COOKING EQUIPMENT SUCH AS EQUIPMENT POSITION, TYPE AND/OR INCREASE IN ENERGY OUTPUT MAY EFFECT EXHAUST AIRFLOW. STREIVOR AIR SYSTEMS MUST BE NOTIFIED OF ANY CHANGES THAT OCCUR PRIOR TO FABRICATION, A RE-ENGINEERING OF THE EXHAUST AIRFLOW MAY BE REQUIRED. ADDITIONAL SITE VISIT FOR FIRE SUPPRESSION PRE-TEST IS NOT INCLUDED UNLESS SPECIFICALLY LISTED IN QUOTE.

PROJECT:

CDCR PELICAN BAY

5905 LAKE EARL DRIVE
CRESCENT CITY, CA 95531

THE MARSHALL ASSOCIATES

ITEM #:	17
SYSTEM #:	2
HOOD #:	16C & 16D
DATE:	04/11/2023
DRAWN BY:	KCS
CHECKED BY:	SWB
CONSULTANT:	THE MARSHALL ASSOCIATES
SCALE: (UNLESS OTHERWISE NOTED)	1/2" = 1' - 0"

IF BAR DOES NOT MEASURE 1" THE DRAWING IS NOT PLOTTED TO SCALE

	DESCRIPTION	DATE	INT
△	---	--/--/--	---
△	---	--/--/--	---
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DRAWING:

F-03

SHEET 03 OF 11

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CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

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11/04/24
23-5988
Approval of this plan does not authorize or approve any omission or deviation from applicable requirements. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

REV.	DATE:	DESCRIPTION

STREIVOR™ AIR SYSTEMS
"STRIVING FOR EXCELLENCE"
2150 KITTY HAWK ROAD, LIVERMORE, CA 94551
PHONE: (925) 960-9090 FAX:(925) 960-9055
WWW.STREIVOR.COM

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS
Project No.: 5982.00

HIBSER YAMAUCHI Architects, Inc.
4602 2nd Street, Suite #3
Davis, CA 95618
530.758.1270 office
530.758.4789 fax

LICENSED ARCHITECT KENT YAMAUCHI C-26566 02-28-2025 RENEWAL DATE STATE OF CALIFORNIA

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

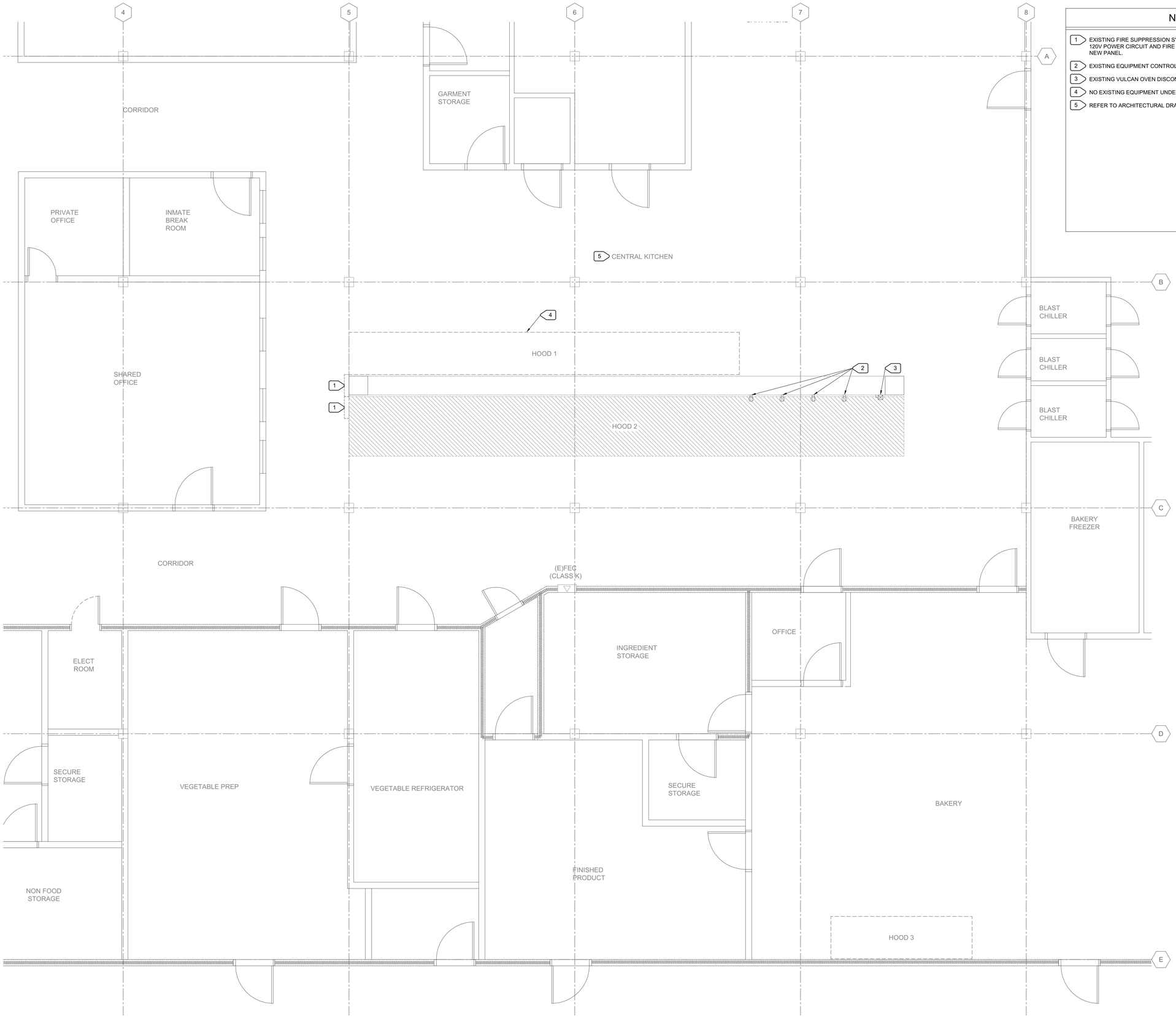
PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024
SHEET TITLE: BUILDING C01 - ADMIN BUILDING FIRE SUPPRESSION MFR PLAN
CDCR Project Nos.: 20-034

SHEET NUMBER

FS-B1.4

V3



1 / E-B1.1 BUILDING C01 - CENTRAL KITCHEN - ENLARGED PLAN - DEMOLITION - ELECTRICAL

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

NUMBERED NOTES

1. EXISTING FIRE SUPPRESSION SYSTEM CONTROL PANEL TO BE REMOVED. DISCONNECT EXISTING 120V POWER CIRCUIT AND FIRE ALARM MONITORING CIRCUIT AND PROTECT FOR CONNECTION TO NEW PANEL.
2. EXISTING EQUIPMENT CONTROL CIRCUIT TO REMAIN.
3. EXISTING VULCAN OVEN DISCONNECT SWITCH TO REMAIN.
4. NO EXISTING EQUIPMENT UNDER HOOD.
5. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND RATING OF FIRE RATED WALLS.

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11/04/24
23-8898
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REV.	DATE:	DESCRIPTION

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS
Project No: 5892.00

HIBSER YAMAUCHI Architects, Inc.
4602 2nd Street, Suite #3
Davis, CA 95616
530.758.4270 office
530.758.4789 fax

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

SHEET TITLE: BUILDING C01 - CENTRAL KITCHEN - ENLARGED PLAN - DEMOLITION - ELECTRICAL

CDCR Bldg. No.: 20-034

SHEET NUMBER
E-B1.1

V3

CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

REGISTERED PROFESSIONAL ENGINEER
JESSE U. BASTIAN
No. E20229
Exp. 03-31-25
ELECTRICAL
STATE OF CALIFORNIA
10/15/2024

M. NEILS ENGINEERING, INC.
Electrical Engineers | Lighting Designers
100 Howe Ave., Suite 235N
Sacramento, CA 95825-8217
www.mneilsengineering.com
Tel: (916) 923-4400
PROJECT #: 22238.21
PROJECT MGR: Stuart Lindsay

UNAUTHORIZED CHANGES & USES: M. Neils Engineering, Inc. preparing these plans will not be responsible for, or liable for unauthorized changes to or uses to these plans. All changes to these plans must be in writing and must be approved by M. Neils Engineering, Inc.

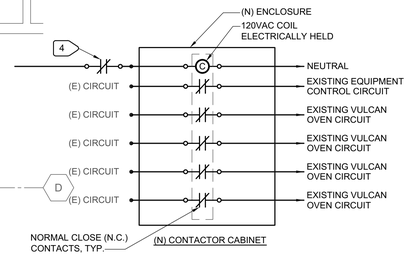
Oct 15, 2024 – 2:29pm, / kerlo

1 E-B1.1 BUILDING C01 - CENTRAL KITCHEN - ENLARGED PLAN - REMODEL - ELECTRICAL

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

NUMBERED NOTES

1. NEW FIRE SUPPRESSION SYSTEM CONTROL PANEL. RECONNECT TO EXISTING 120V POWER CIRCUIT AND FIRE ALARM MONITORING CIRCUIT. SEE DETAIL "1/E-0.1" ON SHEET E-0.1".
2. LOCATE AND INTERCEPT EXISTING CONTROL CIRCUIT AND RE-ROUTE THROUGH NEW CONTACTOR. SEE DETAIL "2/E-B1.2".
3. LOCATE AND INTERCEPT EXISTING EQUIPMENT POWER CIRCUIT AND RE-ROUTE THROUGH NEW CONTACTOR. SEE DETAIL "2/E-B1.2".
4. LOCATE EXISTING SHUNT TRIP CONTROL CIRCUIT. CONNECT EXISTING SHUNT TRIP CONTROL CIRCUIT TO AUXILIARY CONTACT IN NEW FIRE SUPPRESSION SYSTEM CONTROL PANEL. AUXILIARY CONTACT SHALL ACTIVATE THE SHUNT TRIP AT THE CIRCUIT BREAKER TO DE-ENERGIZE EQUIPMENT UNDER THE HOOD WHEN FIRE SUPPRESSION SYSTEM IS ACTIVATED.
5. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND RATING OF FIRE RATED WALLS.



2 E-B1.2 CONTACTOR CABINET DIAGRAM

NO SCALE

CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

REGISTERED PROFESSIONAL ENGINEER
JESSE U. BASTIAN
No. E20229
Exp. 03-31-25
ELECTRICAL
STATE OF CALIFORNIA
10/15/2024

M. NEILS ENGINEERING, INC.
Electrical Engineers | Lighting Designers
100 Howe Ave., Suite 235N
Sacramento, CA 95825-8217
www.mneilsengineering.com
Tel: (916) 923-4400
PROJECT #: 22238.21
PROJECT MGR: Stuart Lindsay

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11/04/24
23-8898
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REV.	DATE:	DESCRIPTION

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS
Project No: 5932.00

HIBSER YAMAUCHI Architects, Inc.
4602 2nd Street, Suite #3
Davis, CA 95616
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530.758.4789 fax

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

SHEET TITLE: BUILDING C01 - CENTRAL KITCHEN - ENLARGED PLAN - REMODEL - ELECTRICAL

CDCR Project No.: 20-034

SHEET NUMBER
E-B1.2

V3

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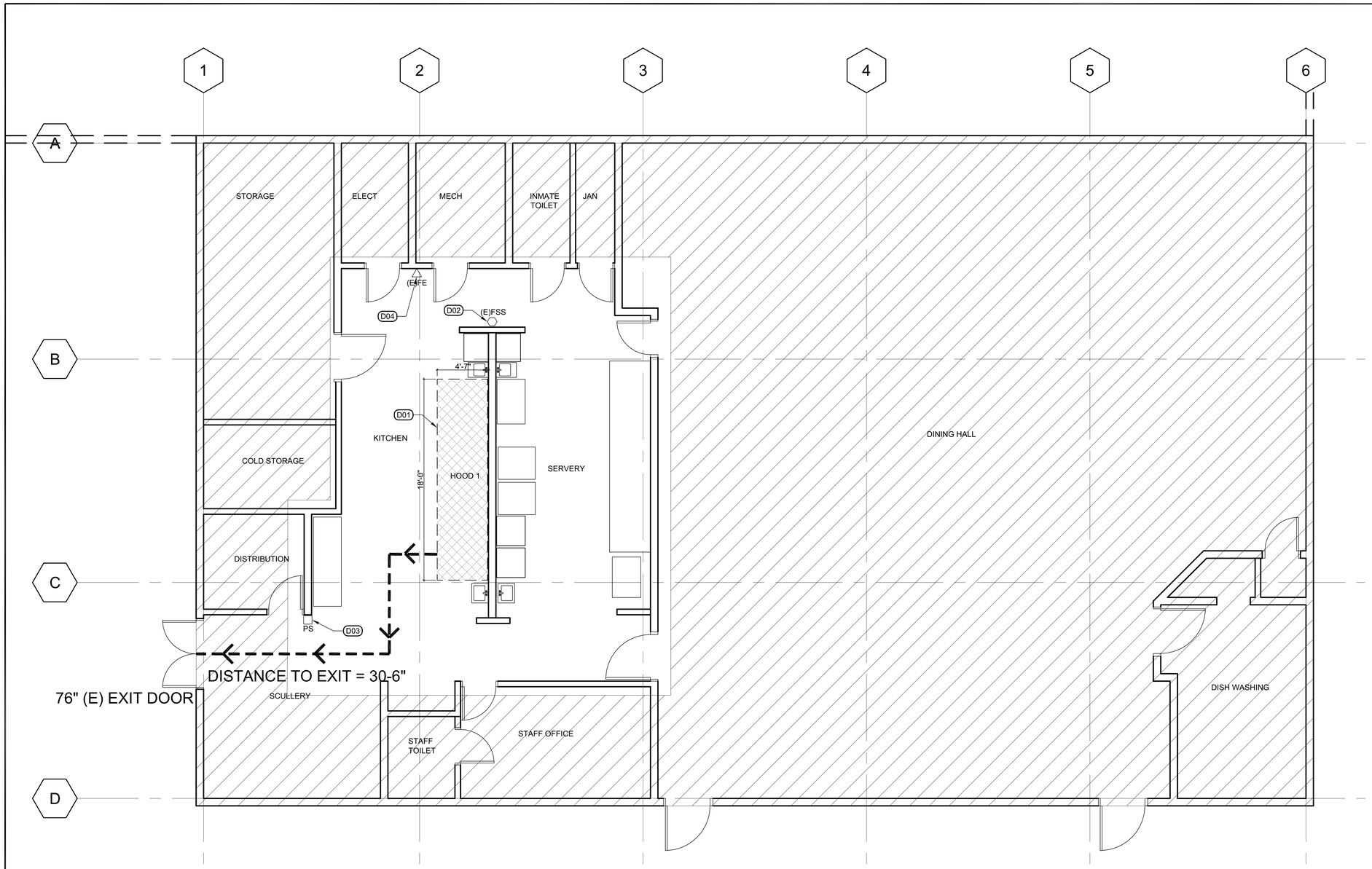
Oct 15, 2024 – 2:29pm, / kerlo



GENE L N E

1. FIELD VERIFY ALL EXISTING CONDITIONS AS NECESSARY FOR THE WORK. DRAWINGS WERE PRODUCED FROM FIELD NOTES.
2. AFTER CONSTRUCTION IS COMPLETE, REPAIR ADJACENT SURFACES TO MATCH EXISTING IN PRE-CONSTRUCTION CONDITION.
3. NEW FIRE EXTINGUISHERS TO BE MOUNTED IN A CABINET WITH TOP SET AT 48" MAX. AFF. RECESS CABINET SO IT DOES NOT PROTRUDE MORE THAN 4" OUT OF THE WALL.
4. THE REMOVAL OF CONDUIT OR PIPING SHALL BE SEALED WITH LISTED OR EQUIVALENT LIQUID TIGHT SEALING DEVICES. (NFPA 96 SECTION: 10.2.7.2)

LEGEND

- AREA NOT PART OF THIS PROJECT
- EXISTING EXHAUST HOOD AND ASSOCIATED FIRE EXTINGUISHING SYSTEM TO BE DECOMMISSIONED.
- PATH OF TRAVEL
- FE — (E) K-CLASS FIRE EXTINGUISHER
- PS — (E) PULL STATION
- FSS — (E) FIRE SUPPRESSION SYSTEM CONTROL BOX

DEMOLITION KEYNOTES

- D01 HOOD TO BE DECOMMISSIONED. REMOVE (E) NOZZLES AND TUBING WITHIN THE HOOD. POST SIGNAGE PER DETAIL 2/A9.0
- D02 (E) FIRE SUPPRESSION SYSTEM TO BE REMOVED. PATCH, REPAIR AND PAINT ADJACENT SURROUNDINGS TO MATCH (E) CONDITIONS.
- D03 (E) PULL STATION TO BE REMAIN. POST SIGNAGE PER DETAIL 2/A9.0.
- D04 (E) FIRE EXTINGUISHER CABINET TO REMAIN. REPLACE K CLASS FIRE EXTINGUISHER WITH CLASS ABC FIRE EXTINGUISHER, SIZE 2A.

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APPROVED FIRE AND PANIC ONLY
11/04/24
23-5898
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REV.	DATE:	DESCRIPTION

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FNAL DRAWINGS
Project No: 5892.00

HIBSER YAMAUCHI Architects, Inc.
4602 2nd Street, Suite #3
Davis, CA 95616
530.758.1270 office
530.758.4789 fax

LICENSED ARCHITECT
REN YAMAUCHI
C-26566
02-28-2025
RENEWAL DATE
STATE OF CALIFORNIA

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

SHEET TITLE: BUILDING C02 - PIA KITCHEN - FLOOR PLAN - DEMOLITION

CDCR JOB No.: 20-034

SHEET NUMBER
AC2.0

V3

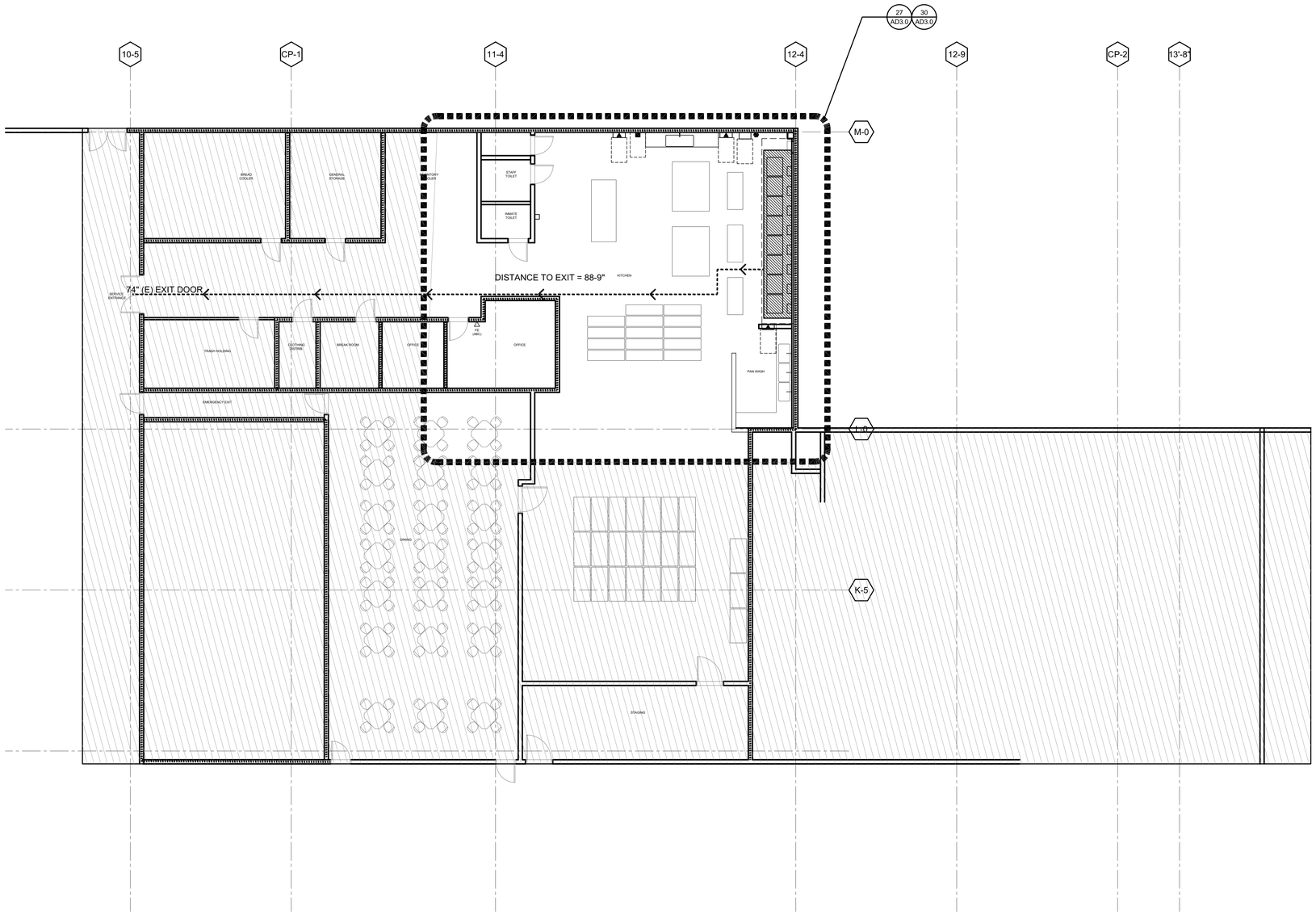
30 BUILDING C02 - PIA KITCHEN - FLOOR PLAN - DEMOLITION
SCALE: 1/4" - 1'-0"

TRUE NORTH

GRAPHIC SCALE: 0 1' 2' 4' 8' 12' — 1/4" = 1'-0"

CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

11/17/2023 8:11 PM



1 BUILDING C04 - SHU KITCHEN, FLOOR PLAN

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

PLAN NORTH

N

CDCR ACCESS COMPLIANCE

1334 1/8/2025
CASp-491

GENERAL NOTES

1. DESIGN, FURNISH, INSTALL AND TEST NEW FIRE SYSTEM.
2. FIELD VERIFY ALL EXISTING CONDITIONS AS NECESSARY FOR THE WORK. DRAWINGS WERE PRODUCED FROM FIELD NOTES.
3. NEW SUPPRESSION MANUAL PULL STATION TO BE WITHIN THE KITCHEN ROOM, BETWEEN 10FT TO 20FT FROM THE HOOD AND IN ROUTE THE EXIT DOOR.
4. NEW (K) CLASS FIRE EXTINGUISHER TO BE WITHIN 30FT FROM THE HOOD. IF NEEDED PROVIDE A SECOND EXTINGUISHER AS SHOWN IN DRAWINGS.
5. AFTER CONSTRUCTION IS COMPLETE, REPAIR ADJACENT SURFACES TO MATCH EXISTING IN PRE-CONSTRUCTION CONDITION. SEE DRAWINGS TO ENSURE PROPER FIRE RATING IS MAINTAINED.
6. NEW PULL STATIONS TO BE INSTALLED WITH OPERABLE PARTS NOT HIGHER THAN 48" AFF. PROVIDE ACCESSIBLE CLEARANCE IN FRONT OF THE PULL STATION.
7. NEW FIRE EXTINGUISHERS TO BE MOUNTED IN A CABINET WITH TOP SET AT 48" MAX. AFF. FOR RECESSED CABINET INSTALL SO IT DOES NOT PROTRUDE MORE THAN 4" OUT OF THE WALL, UON.
8. THE REMOVAL OF CONDUIT OR PIPING SHALL BE SEALED WITH LISTED OR EQUIVALENT LIQUID TIGHT SEALING DEVICES. (NFPA 96 SECTION: 10.2.7.2)
9. FOR STRUCTURAL ANCHORAGE FOR KITCHEN EQUIPMENT SEE SHEET S9.0 AND S9.1

LEGEND

AREA NOT IN SCOPE

PATH OF TRAVEL TO EXIT

WALL LEGEND

CMU WALL

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11/04/24
23-8888
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STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS
Project No: 5892.00

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LICENSED ARCHITECT
KEN YAMAUCHI
C-26566
02-28-2025
RENEWAL DATE
STATE OF CALIFORNIA

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

SHEET TITLE: BUILDING C04 - SHU KITCHEN - OVERALL FLOOR PLAN

CDCR JOB Nos.: 20--034

SHEET NUMBER
AD2.0

V3

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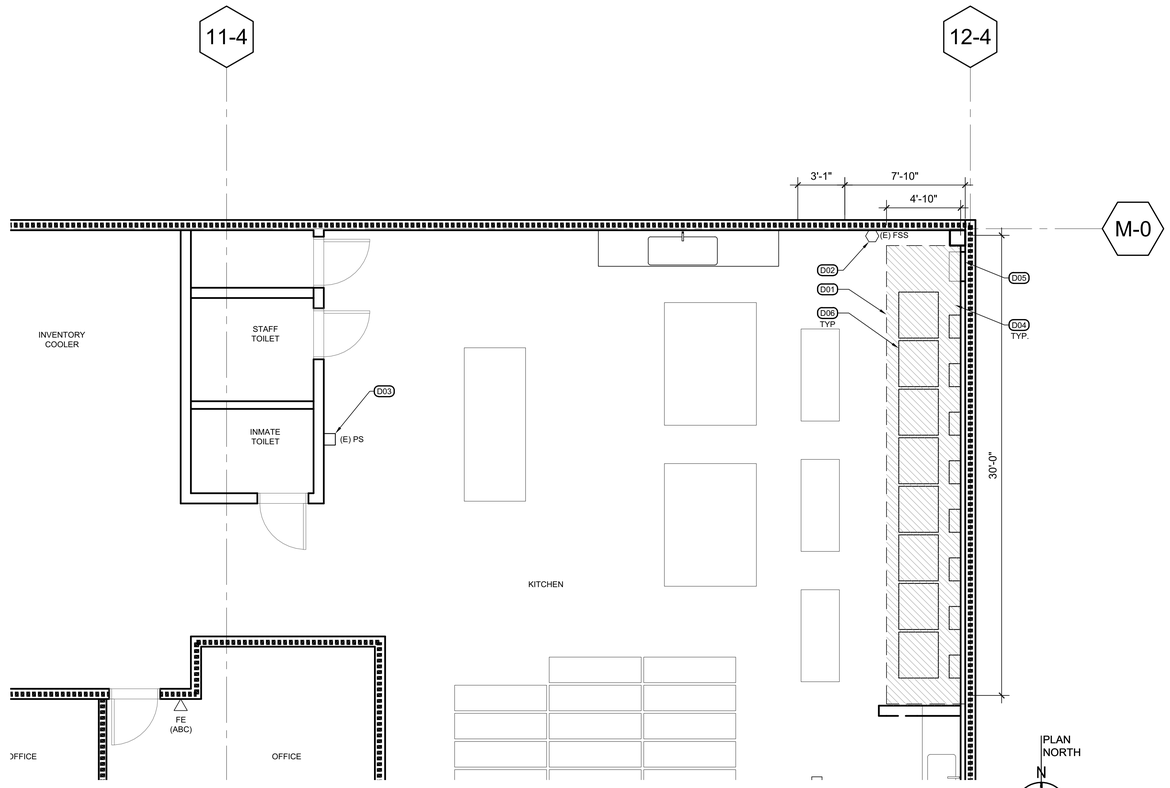
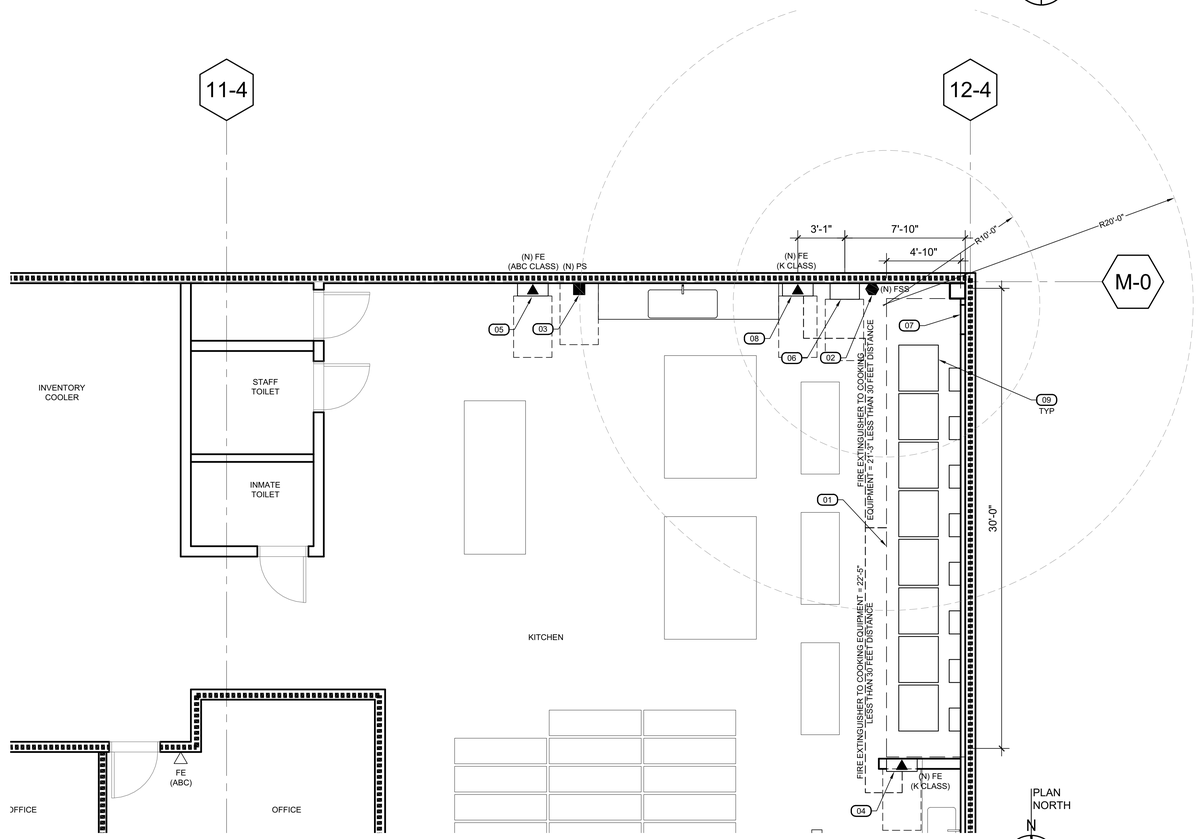


27 BUILDING C04 - SHU KITCHEN, ENLARGED FLOOR PLAN - DEMOLITION

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



30 BUILDING C04 - SHU KITCHEN - ENLARGED FLOOR PLAN - REMODEL

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

GENERAL NOTES

1. DESIGN, FURNISH, INSTALL AND TEST NEW FIRE SYSTEM.
2. FIELD VERIFY ALL EXISTING CONDITIONS AS NECESSARY FOR THE WORK. DRAWINGS WERE PRODUCED FROM FIELD NOTES.
3. NEW SUPPRESSION MANUAL PULL STATION TO BE WITHIN THE KITCHEN ROOM, BETWEEN 10FT TO 20FT FROM THE HOOD AND IN ROUTE THE EXIT DOOR.
4. NEW (K) CLASS FIRE EXTINGUISHER TO BE WITHIN 30FT FROM THE HOOD. IF NEEDED PROVIDE A SECOND EXTINGUISHER AS SHOWN IN DRAWINGS.
5. AFTER CONSTRUCTION IS COMPLETE, REPAIR ADJACENT SURFACES TO MATCH EXISTING IN PRE-CONSTRUCTION CONDITION. SEE DRAWINGS TO ENSURE PROPER FIRE RATING IS MAINTAINED.
6. NEW PULL STATIONS TO BE INSTALLED WITH OPERABLE PARTS NOT HIGHER THAN 48" AFF. PROVIDE ACCESSIBLE CLEARANCE IN FRONT OF THE PULL STATION.
7. NEW FIRE EXTINGUISHERS TO BE MOUNTED IN A CABINET WITH TOP SET AT 48" MAX. AFF. FOR RECESSED CABINET INSTALL SO IT DOES NOT PROTRUDE MORE THAN 4" OUT OF THE WALL, UON.
8. THE REMOVAL OF CONDUIT OR PIPING SHALL BE SEALED WITH LISTED OR EQUIVALENT LIQUID TIGHT SEALING DEVICES. (NFPA 96 SECTION: 10.2.7.2)
9. FOR STRUCTURAL ANCHORAGE FOR KITCHEN EQUIPMENT SEE SHEET S9.0 AND S9.1

WALL LEGEND

CMU WALL

DEMOLITION LEGEND

	EXISTING KITCHEN HOOD TO REMAIN. ANSUL SYSTEM TO BE REPLACED. SEE FS DRAWINGS FOR DETAILS AND EQUIPMENT LAYOUT.
	EXISTING KITCHEN HOOD TO BE DECOMMISSIONED. REMOVE (E) ANSUL SYSTEM. POST SIGNAGE PER DETAIL 2/A9.0
FSS	(E) FIRE SUPPRESSION SYSTEM CONTROL BOX
FEC	(E) FIRE EXTINGUISHING CABINET WITH FIRE HOSE AND FIRE EXTINGUISHER INSIDE.
PS	(E) PULL STATION LOCATION
FE (ABC)	(E) ABC-CLASS PORTABLE FIRE EXTINGUISHER
FE (K)	(E) K-CLASS PORTABLE FIRE EXTINGUISHER

REMODEL LEGEND

FSS	(N) FIRE SUPPRESSION SYSTEM CONTROL BOX
	DISTANCE FROM FIRE EXTINGUISHER TO COOKING EQUIPMENT. 30 FEET MAXIMUM UNOBSTRUCTED DISTANCE.
FE (ABC)	(N) ABC-CLASS PORTABLE FIRE EXTINGUISHER
FE (K)	(N) K-CLASS PORTABLE FIRE EXTINGUISHER

DEMOLITION KEYNOTES

- D01 (E) HOOD TO REMAIN. (E) ANSUL SYSTEM TO BE REMOVED AND REPLACED.
- D02 (E) FIRE SUPPRESSION SYSTEM CONTROL BOX TO BE REMOVED AND REPLACED.
- D03 (E) PULL STATION TO BE RELOCATED. SEE FS DRAWING.
- D04 (E) ELECTRICAL SHUTOFFS TO BE SHIFTED, SEE ELECTRICAL DRAWINGS.
- D05 MAIN ELECTRICAL PANEL TO BE REMOVED. SEE ELECTRICAL DRAWINGS.
- D06 (E) COOKING EQUIPMENT TO REMAIN.

REMODEL KEYNOTES

- 01 ANSUL SYSTEM TO BE REPLACED. SEE FS DRAWINGS FOR DETAILS AND EQUIPMENT LOCATIONS.
- 02 (N) FIRE SUPPRESSION SYSTEM CONTROL BOX. SEE FS DRAWINGS.
- 03 (N) PULL STATION. SEE FS DRAWING.
- 04 (N) RECESSED FIRE EXTINGUISHER CABINET AND CLASS-K FIRE EXTINGUISHER. SEE DETAIL 1/A9.0 & FS DRAWINGS FOR SIZING.
- 05 (N) SURFACE MOUNTED FIRE EXTINGUISHER CABINET AND CLASS-ABC FIRE EXTINGUISHER, SIZE 2A. SEE DETAIL 17/A9.0
- 06 (N) MAIN ELECTRICAL PANEL. SEE ELECTRICAL DRAWINGS.
- 07 PATCH, REPAIR AND PAINT THE WALL AT PREVIOUS MAIN ELECTRICAL PANEL LOCATION AS REQUIRED. PAINT TO MATCH ADJACENT WALL PAINT COLOR.
- 08 (N) SURFACE MOUNTED FIRE EXTINGUISHER CABINET AND CLASS-K FIRE EXTINGUISHER. SEE DETAIL 17/A9.0 & FS DRAWINGS FOR SIZING.
- 09 (E) KITCHEN EQUIPMENT TO REMAIN.

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FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
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DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS
Project No: 5892.00

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02-28-2025
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REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

SHEET TITLE: BUILDING C04 - SHU KITCHEN
ENLARGED FLOOR PLAN - DEMOLITION AND REMODEL

CDCR 20-034
ADA Nos.:

SHEET NUMBER
AD3.0

V3

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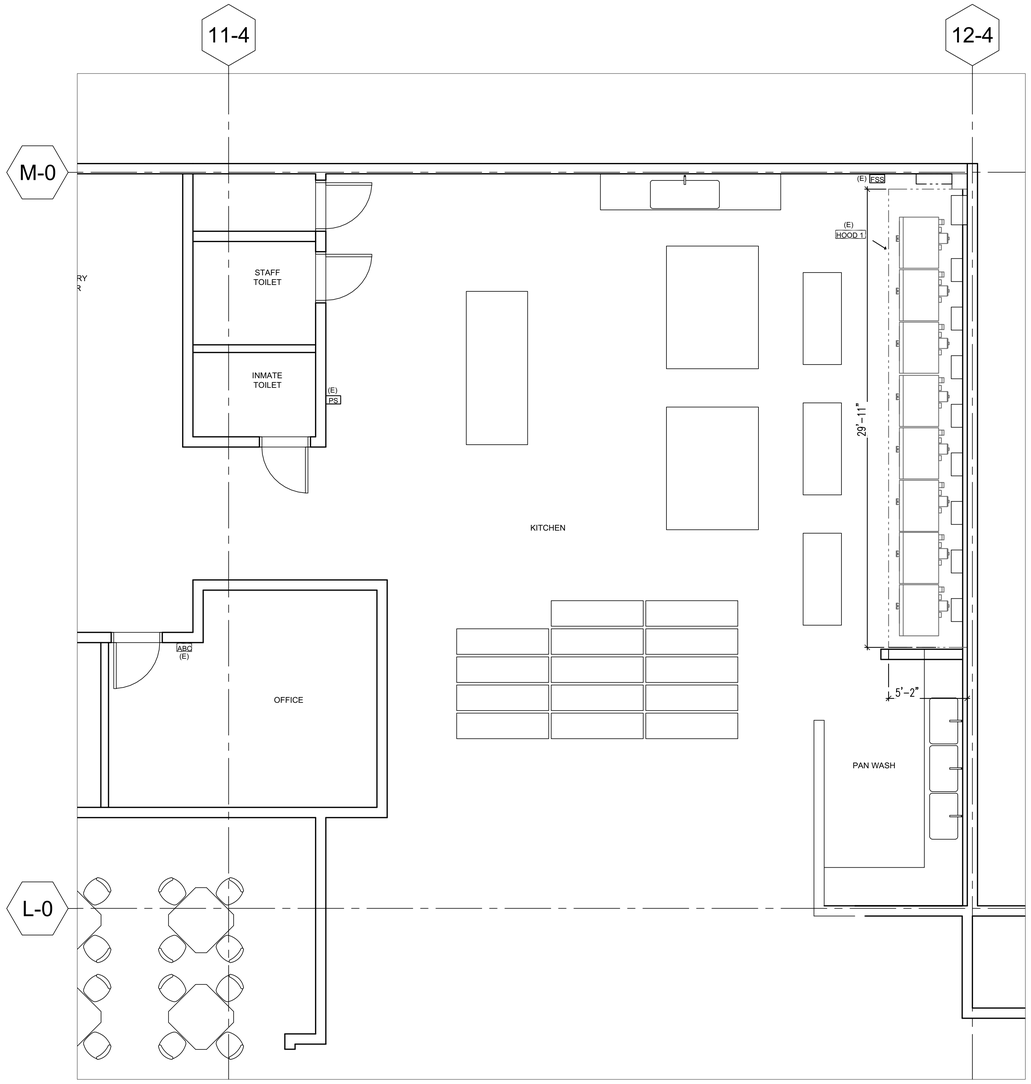

30 BLDG C04 SHU KITCHEN HOOD - FIRE SUPPRESSION DEMO PLAN

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

GENERAL NOTES:

A. ALL EQUIPMENT TO HAVE NSF, ETL SANITATION OR UL SANITATION APPROVALS.

B. INSTALLATION TO MEET CALIFORNIA RETAIL FOOD CODE (CRFC) LATEST EDITION.

FIRE SUPPRESSION CONTRACTOR TO:

A. REMOVE EXISTING FIRE SUPPRESSION SYSTEM AND ALL COMPONENTS.

B. REFER TO ARCHITECTURAL DRAWING SHEET NOTES FOR NOTES AND GUIDELINES REGARDING EXISTING CONDITION GUIDELINES

SYMBOLS

(E) FSS EXISTING FIRE SUPPRESSION SYSTEM; TO BE REMOVED

(E) PS EXISTING FIRE PROTECTION PULL BOX; TO BE REMOVED

(E) ABC EXISTING ABC FIRE EXTINGUISHER; TO REMAIN

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1334 1/8/2025
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PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

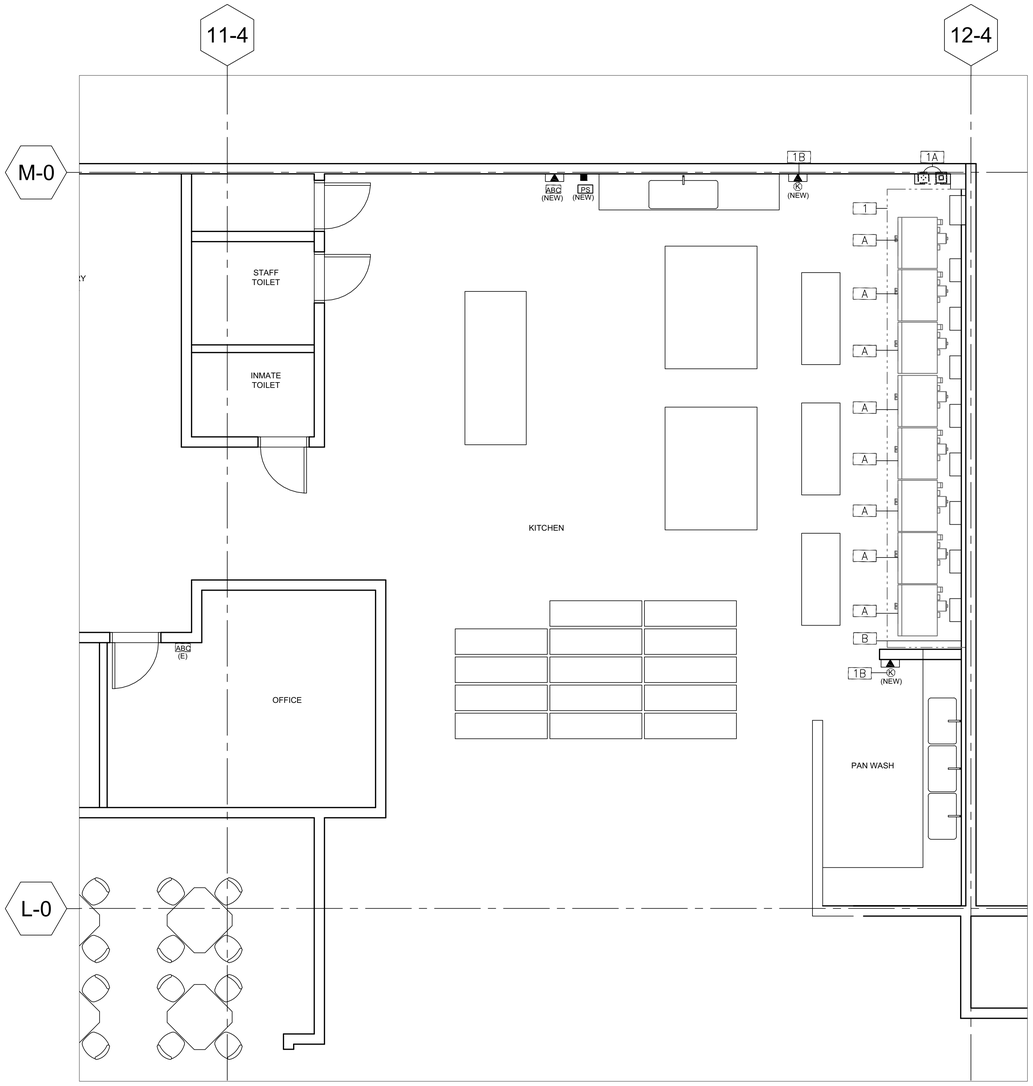
DATE: JULY 19, 2024

SHEET TITLE: BUILDING C04 - SHU KITCHEN
FIRE SUPPRESSION DEMO PLAN

CDCR JOB NOS.: 20-034

SHEET NUMBER
FS-D1.1

V3



EQUIPMENT SCHEDULE

ITEM	QTY	DESCRIPTION	MANUFACTURER	MODEL NUMBER	NOTES
1	1	EXHAUST HOOD (TYPE-I)	EXISTING; IN PLACE	NOT PART OF FSEC CONTRACT	NIC
1A	1	FIRE PROTECTION SYSTEM	STREIVOR AIR SYSTEMS	PYRO-CHEM KITCHEN KNIGHT II	
1B	2	CLASS K FIRE EXTINGUISHER	BUCKEYE	WC-6L	
A	8	ELECTRIC CONVECTION OVEN	GARLAND (EXISTING)	MCO-ED-20-5 (EXISTING)	NIC
B	1	14 GA S/S WALL FLASHING	EXISTING	NOT PART OF FSEC CONTRACT	NIC

ABBREVIATIONS:

FSEC	FOODSERVICE EQUIPMENT CONTRACTOR
S/S	STAINLESS STEEL
U/C	UNDER COUNTER
S&T	SOAP AND TOWEL
NIC	NOT IN CONTRACT

SCHEDULE / DRAWING NOTES:

ELECTRICAL ROUGH-IN

ITEM	QTY	DESCRIPTION	CONNECTED LOAD 120/1	120/208/1	120/208/3	208/1	208/3	480/3	HT	CONNECTION TYPE C&P	RECP	HW
1	1	EXHAUST HOOD (TYPE-I)	(E)									
1A	1	FIRE PROTECTION SYSTEM	20A CKT						FA			*
1B	2	CLASS K FIRE EXTINGUISHER										

ABBREVIATIONS:

C&P	CORD AND PLUG	STUB	UTILITY UP FROM FLOOR
RECP	RECEPTACLE	DC	DROP CORD WITH RECEPTACLE
HW	HARDWIRE	CKT	CIRCUIT
HT	HEIGHT	E	EXISTING
FA	FROM ABOVE		

SCHEDULE / DRAWING NOTES:

CONNECTED LOAD = EACH CONNECTION SHOWN ON DRAWING

CONNECTION TYPES PROVIDED BY ELECTRICAL DIVISION

SHEET NOTES

FIRE SUPPRESSION CONTRACTOR TO PROVIDE:

A. WORK AS DESCRIBED IN CONTRACT DOCUMENTS AND SUPPLEMENTAL REQUIREMENTS PER FIRE SUPPRESSION EQUIPMENT SECTION.

B. ROUGH-IN AND FINAL CONNECTION TO ALL FIRE SUPPRESSION EQUIPMENT AS INDICATED ON DRAWINGS AND IN ELECTRICAL ROUGH-IN SCHEDULE.

C. ALL JUNCTION-BOXES, ELECTRICAL OUTLETS, COVER PLATES, SWITCHES NOT BUILT INTO FIXTURES OR EQUIPMENT.

D. SHUNT TRIP CIRCUIT BREAKERS FOR ALL FOODSERVICE EQUIPMENT BELOW EXHAUST HOODS.

E. INCLUDE DORMONT POSI-SET CASTER PLACEMENT SAFETY SYSTEM FOR ALL EXISTING MOBILE COOKING EQUIPMENT BELOW EXISTING HOODS AFTER NEW FIRE SUPPRESSION SYSTEM HAS BEEN INSTALLED. SEE S9.1 FOR DETAIL

F. ALL OTHER EXISTING EQUIPMENT TO BE ANCHORED PER REQUIREMENTS SHOWN ON S9.1

INTERCONNECTION BETWEEN:

A. FIRE PROTECTION SYSTEM AND BUILDING LIFE SAFETY.

SYMBOLS

PS — NEW FIRE PROTECTION PULL BOX – OCTAGONAL BOX 48" AFF WITH CONDUIT TO CEILING – PYRO CHEM KITCHEN KNIGHT II MODEL RPS-M

ABC — NEW ABC FIRE EXTINGUISHER SEE SHEET AA3.0 FOR MAKE/MODEL

K — NEW TYPE K FIRE EXTINGUISHER BUCKEYE; MODEL WC-6L

JUNCTION BOX ROUGH-IN

JUNCTION BOX CONNECTION PROVIDED IN EQUIPMENT

30 BLDG C04 SHU KITCHEN HOOD - FIRE SUPPRESSION NEW EQUIPMENT PLAN

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

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REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

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5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

SHEET TITLE: BUILDING C04 - SHU KITCHEN
FIRE SUPPRESSION NEW EQUIPMENT PLAN

CDCR Job Nos.: 20-034

SHEET NUMBER
FS-D1.2

V3

LISTINGS & STANDARDS

THIS WET CHEMICAL EXTINGUISHING SYSTEM IS ENGINEERED TO PROVIDE FIRE PROTECTION FOR RESTAURANT HOODS, DUCTS AND COOKING APPLIANCES, IS **UL 300** LISTED AND IS TO BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS:

- NFPA 17A 2021 EDITION
- NFPA 10 2018 EDITION
- NFPA 96 2021 EDITION

SECTIONS & CODES

NFPA 10 2018 EDITION

(6.6.2) MAXIMUM TRAVEL DISTANCE SHALL NOT EXCEED 30 FT (9.1 M) FROM THE HAZARD TO THE EXTINGUISHER(S)

NFPA 17A 2021 EDITION

(5.2.1.10.1) EACH MANUAL ACTUATION DEVICE SHALL BE INSTALLED NO MORE THAN 48 IN. (1200 MM) AND NO LESS THAN 42 IN. (1067 MM) ABOVE THE FLOOR.

NFPA 96 2021 EDITION

(8.2.3.1) A HOOD EXHAUST FAN(S) SHALL CONTINUE TO OPERATE AFTER THE EXTINGUISHING SYSTEM HAS BEEN ACTIVATED UNLESS FAN SHUTDOWN IS REQUIRED BY A LISTED COMPONENT OF THE VENTILATION SYSTEM OR BY THE DESIGN OF THE EXTINGUISHING SYSTEM.

(8.2.3.2) THE HOOD EXHAUST FAN SHALL START UPON ACTIVATION OF THE EXTINGUISHING SYSTEM IF THE EXHAUST FAN AND ALL COOKING EQUIPMENT SERVED BY THE FAN HAVE BEEN SHUT DOWN, UNLESS FAN SHUTDOWN IS REQUIRED BY A LISTED COMPONENT OF THE VENTILATION SYSTEM OR BY THE LISTING OF THE EXTINGUISHING SYSTEM.

(8.3.2) WHEN THE FIRE-EXTINGUISHING SYSTEM ACTIVATES, MAKEUP AIR SUPPLIED INTERNALLY TO A HOOD SHALL BE SHUT OFF.

(10.4.1) UPON ACTIVATION OF ANY FIRE EXTINGUISHING SYSTEM FOR A COOKING OPERATION, ALL ~~SOURCES OF FUEL~~ AND ELECTRICAL POWER THAT PRODUCE HEAT TO ALL EQUIPMENT REQUIRING PROTECTION BY THAT SYSTEM SHALL AUTOMATICALLY SHUT OFF.

(10.4.3) ~~GAS APPLIANCE NOT REQUIRING PROTECTION BUT LOCATED UNDER VENTILATING EQUIPMENT WHERE PROTECTED APPLIANCES ARE LOCATED SHALL BE AUTOMATICALLY SHUT OFF UPON ACTIVATION OF THE EXTINGUISHING SYSTEM~~

(10.4.4) SHUTOFF DEVICE SHALL REQUIRE MANUAL RESETTING PRIOR TO FUEL / POWER BEING RESTORED

(10.5.1.1) AT LEAST ONE MANUAL ACTUATION DEVICE SHALL BE LOCATED IN A MEANS OF EGRESS OR AT A LOCATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.

(10.5.1.2) THE MANUAL ACTUATION DEVICE SHALL CLEARLY IDENTIFY THE HAZARD PROTECTED.

CMC 2022 EDITION

(513.5) ALL SYSTEMS SHALL HAVE BOTH AUTOMATIC AND MANUAL METHODS OF ACTUATION. AT LEAST ONE MANUAL ACTUATION DEVICE SHALL BE LOCATED IN A MEANS OF EGRESS OR AT A LOCATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.

INSTALLATION REQUIREMENTS

1. ALL PIPE SHALL BE SCHEDULE 40 BLACK IRON. CHROME PLATED/SLEEVED WHERE EXPOSED.
2. ALL CYLINDER SYSTEMS SHALL HAVE 3/8" SUPPLY LINES AND 3/8" BRANCH LINES.
3. ALL WIRE ROPE SHALL BE 1/16" STAINLESS STEEL AND RUN THROUGH 1/2" EMT CONDUIT.
4. U.L. LISTED CORNER PULLEYS REQUIRED WHENEVER THE STAINLESS STEEL CABLE DIRECTION CHANGES.
5. ALL EQUIPMENT WITH FIRE PROTECTION MUST BE SECURED TO FLOOR. (NOT BY STREIVOR)
6. SWIVEL ADAPTERS MAY BE ADDED TO NOZZLES FOR UP TO 30° ROTATION.

SYSTEM #3

PAGE NUMBERS REFERENCED FROM THE PYROCHEM FIRE SUPPRESSION SYSTEM TECHNICAL MANUAL

CABLE/LINE LIMITATIONS - CONTROL HEAD C

		LENGTH		PULLEYS	BRACKETS
FUSIBLE LINK (pg. 4-5)	MAXIMUM	150.00	FT	40	20
	ALLOTTED	40.00	FT	12	3 *
PULL STATION(S) (pg. 4-9)	MAXIMUM	150.00	FT	40	N/A
	ALLOTTED	25.00	FT	2	N/A
GAS VALVE(S) (pg. 4-10)	MAXIMUM	100.00	FT	30	N/A
	ALLOTTED	--.--	FT	--	N/A

*ML STYLE FUSIBLE LINK INCLUDED WITH SYSTEM (NOT SUPPLIED BY STREIVOR). FUSIBLE LINK TEMPERATURE RATING TO BE VERIFIED AND DETERMINED IN FIELD.

CYLINDER #5

COVERAGE DESCRIPTION	NOZZLE	QTY.	FLOW POINTS	PAGE
DUCT	2D	3	6	3-1
PLENUM	1H	5	5	3-3

MODEL	FLOW POINTS			
PCL-460	11	ALLOTTED	14	MAXIMUM

TOTAL		FIRST TO LAST NOZZLE	
LENGTH**	VOLUME	LENGTH**	VOLUME
61.00 FT	2288 ML	47.00 FT	1763 ML

CYLINDER #-

COVERAGE DESCRIPTION	NOZZLE	QTY.	FLOW POINTS	PAGE

MODEL	FLOW POINTS			
		ALLOTTED		MAXIMUM

TOTAL		FIRST TO LAST NOZZLE	
LENGTH** FT	VOLUME ML	LENGTH** FT	VOLUME ML

CYLINDER/PIPING LIMITATIONS

CYLINDER	FLOW POINTS	TOTAL		FIRST TO LAST NOZZLE	
		LENGTH*	VOLUME	LENGTH*	VOLUME
PCL-460	15	69.33 FT	2600 ML	53.33 FT	2000 ML
PCL-460	14	90.67 FT	3400 ML	80.00 FT	3000 ML
PCL-300	10	50.93 FT	1910 ML	30.00 FT	1125 ML
PCL-160	5	40.00 FT	1500 ML	16.00 FT	600 ML

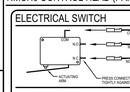
** CALCULATIONS BASED ON 3/8" PIPE (37.5 ML/FT) (SEE pg. 3-18)

LEGEND

- PATH OF EGRESS
- DETECTION LINE ROUTE
- K-CLASS FIRE EXTINGUISHER (NOT SUPPLIED BY STREIVOR)
- GAS VALVE
- PULL STATION
- RESET RELAY
- CONTROL HEAD
- DETECTOR BRACKET (FRONT VIEW)
- DETECTOR BRACKET (PLAN VIEW)
- NOZZLE COVERAGE
- PAC-10 PNEUMATIC TUBING
- FIELD PIPING
- FIELD WIRING NOT BY STRIEVOR
- DUCT NOZZLE MAX PERIMETER
- PLENUM NOZZLE MAX PLENUM LENGTH
- APPLIANCE NOZZLE AND HEIGHT
- DOWNWARD FACING NOZZLE
- ANGLED NOZZLE AND TARGET LOCATION

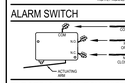
NMCH3 CONTROL HEAD (PART #551203) & ELECTRICAL WIRING

ELECTRICAL SWITCH (PART # 551154)



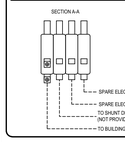
- QUANTITY: 3
- SWITCH IS RATED AT 250 VAC, 21A RESISTIVE; 250 VAC, 2 HP; 125 VAC, 1 HP

ALARM SWITCH (PART # 550077)

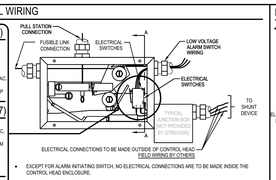


- QUANTITY: 1
- SWITCH IS RATED AT 28 VDC, 50 mA
- FIRE SUPPRESSION SYSTEM TO BE FIELD WIRED INTO BUILDING FIRE ALARM SYSTEM (BY OTHERS).

ELECTRICAL SWITCH WIRING



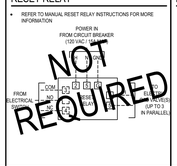
- REFER TO NFPA 96 CODES 8.3.2 & 10.4.1 FOR MORE INFORMATION
- SHUNT DEVICE TO BE NORMALLY OPEN (NO) PROVIDED BY STREIVOR)
- EXCEPT FOR ALARM INITIATING SWITCH, NO ELECTRICAL CONNECTIONS ARE TO BE MADE INSIDE THE CONTROL HEAD ENCLOSURE.



- EXCEPT FOR ALARM INITIATING SWITCH, NO ELECTRICAL CONNECTIONS ARE TO BE MADE INSIDE THE CONTROL HEAD ENCLOSURE.

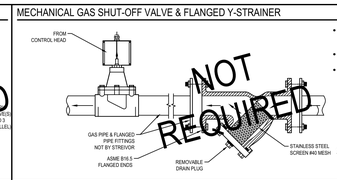
RESET RELAY

- REFER TO MANUAL RESET RELAY INSTRUCTIONS FOR MORE INFORMATION



MECHANICAL GAS SHUT-OFF VALVE & FLANGED Y-STRAINER

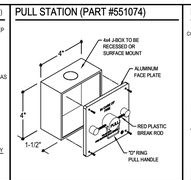
(SEE MEP DRAWINGS FOR LOCATION)



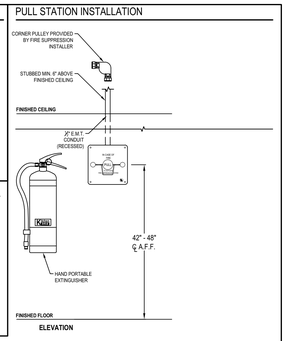
- GAS SHUT-OFF VALVE(S) TO BE SIZED AND LOCATED PER MEP DRAWINGS **(MAXIMUM VALVE SIZE: 3" NPT)**
- VALVE(S) AND STRAINERS TO BE INSTALLED BY DIVISION 22 (PLUMBING)
- Y-STRAINER REQUIRED FOR THE PROTECTION OF THE GAS VALVE. INSTALL A Y-STRAINER ON THE INLET SIDE OF THE GAS VALVE (AS CLOSE AS POSSIBLE).

Y-STRAINER NOT PROVIDED BY STREIVOR UNLESS SPECIFICALLY INCLUDED IN PURCHASE ORDER.

PULL STATION (PART #551074)



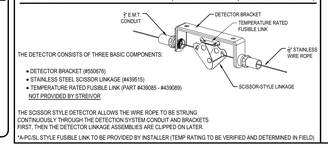
PULL STATION INSTALLATION



ELEVATION

DETECTORS

(Series #435546 | Terminal #435547)



THE DETECTOR CONSISTS OF THREE BASIC COMPONENTS:

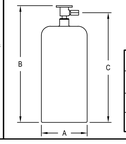
- DETECTOR BRACKET (#550676)
- STAINLESS STEEL SCISSOR LINKAGE (#439515)
- TEMPERATURE RATED FUSIBLE LINK (PART #435085 - #439089)

NOT PROVIDED BY STREIVOR

THE SCISSOR STYLE DETECTOR ALLOWS THE WIRE ROPE TO BE STRUNG CONTINUOUSLY THROUGH THE DETECTION SYSTEM CONDUIT AND BRACKETS FIRST. THEN THE DETECTOR LINKAGE ASSEMBLIES ARE CLIPPED ON LATER.

*A-PC/SL STYLE FUSIBLE LINK TO BE PROVIDED BY INSTALLER (TEMP RATING TO BE VERIFIED AND DETERMINED IN FIELD)

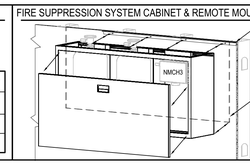
CYLINDER DETAILS



*CYLINDERS COME PRE-FILLED WITH EXTINGUISHING AGENT AND ARE CHARGED WITH DRY NITROGEN TO A PRESSURE OF 225 PSIG @ 70° F (15.5 BAR @ 21° C).

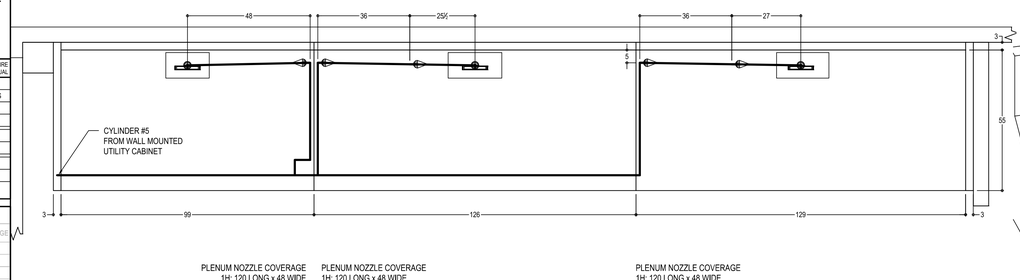
MODEL NO.	A	B	C	WEIGHT
PLC-160 (PART #551163)	8.00 IN	17.75 IN	15.44 IN	34 LBS.
PLC-300 (PART #551194)	8.00 IN	25.06 IN	22.75 IN	53 LBS.
PLC-460 (PART #551193)	10.00 IN	25.06 IN	22.75 IN	83 LBS.

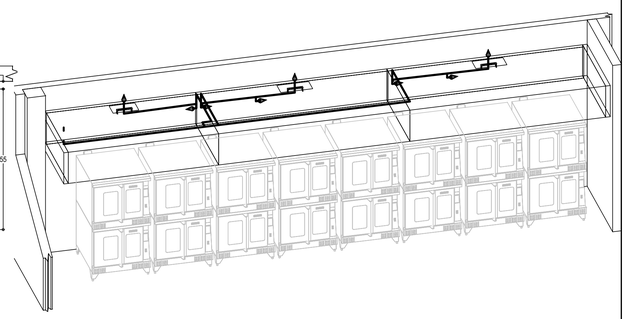
FIRE SUPPRESSION SYSTEM CABINET & REMOTE MOUNTED INSTALLATION

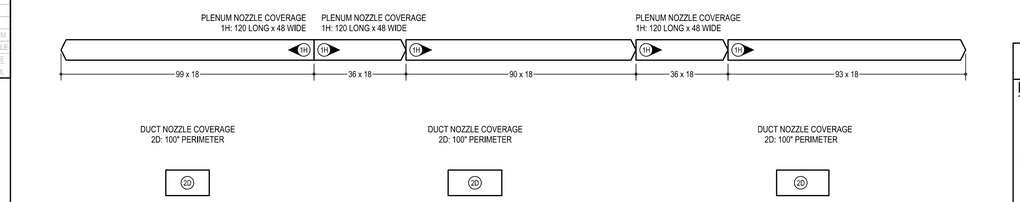


- 36" MINIMUM CLEARANCE REQUIRED IN FRONT OF THE REMOVABLE CABINET DOOR.
- SUPPORT BACKING REQUIRED IF CABINET MOUNTS TO WALL
- CABINET AND FIRE SUPPRESSION SYSTEM COMPONENTS APPROXIMATELY 100 LBS/FT. SEE PATH OF EGRESS DRAWING FOR CABINET DIMENSION(S).

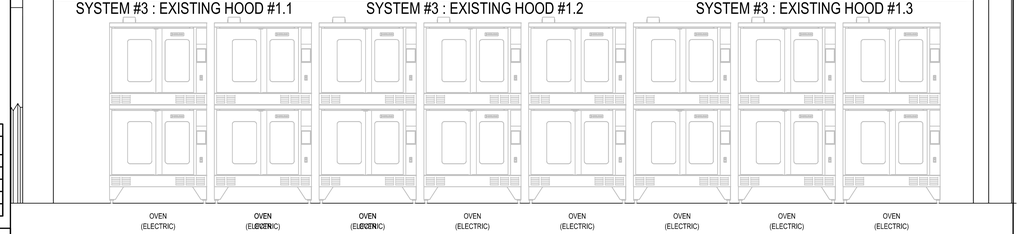
SYSTEM #3 : EXISTING HOOD #1.1 / SYSTEM #3 : EXISTING HOOD #1.2 / SYSTEM #3 : EXISTING HOOD #1.3







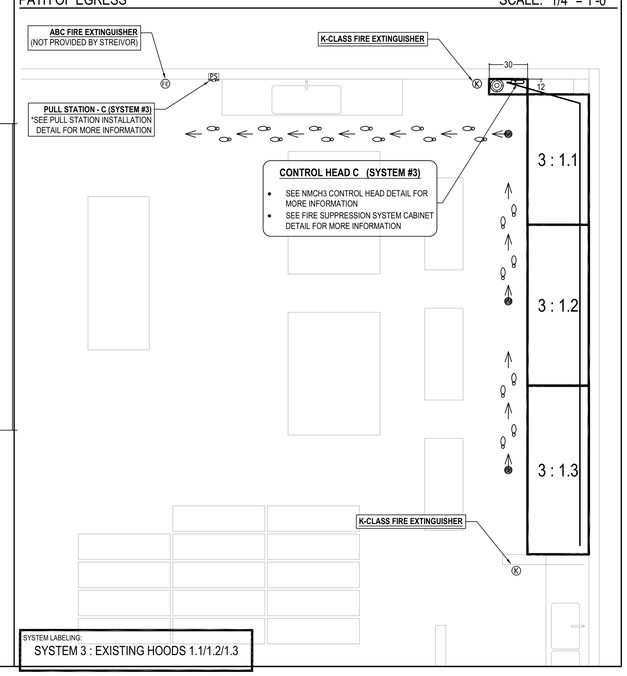
SYSTEM #3 : EXISTING HOOD #1.1 SYSTEM #3 : EXISTING HOOD #1.2 SYSTEM #3 : EXISTING HOOD #1.3



NOTE: ALL FIRE SUPPRESSION SYSTEM PIPING TO BE FIELD INSTALLED BY A STREIVOR APPOINTED LICENSED FIRE SUPPRESSION SYSTEM INSTALLER

PATH OF EGRESS

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



SYSTEM LABELING:
SYSTEM 3 : EXISTING HOODS 1.1/1.2/1.3

INSTALLER:

GENERAL NOTES:

NOTES TO ARCHITECT AND/OR CONTRACTOR: STREIVOR, INC. (STREIVOR AIR SYSTEMS, STREIVOR STAINLESS) IS A SPECIALIST IN THE LAYOUT AND DESIGN OF KITCHEN VENTILATION SYSTEMS, AND IN NO WAY PURPORTS TO BE ARCHITECTS OR ENGINEERS.

THIS PLAN IS SUBMITTED FOR THE CONVENIENCE OF THE ARCHITECT AND/OR CONTRACTOR AND IS DONE FROM AVAILABLE ARCHITECTURAL INFORMATION. ALL MEASUREMENTS ARE SUBJECT TO PHYSICAL VERIFICATION AND ANY DEVIATIONS OR DISCREPANCIES SHALL BE DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN WRITING.

STREIVOR, INC. ACCEPTS NO RESPONSIBILITY FOR WORK DONE BY SAID ARCHITECT OR GENERAL CONTRACTOR OR THEIR REPRESENTATIVES OR SUBCONTRACTORS, AND WILL NOT STAND ANY EXPENSE FOR CHANGES MADE NECESSARY DUE TO LOCAL BUILDING CODES, ORDINANCES, STRUCTURAL CONDITIONS, OR BY ANY SUBSTITUTIONS OR CHANGES IN EQUIPMENT SHOWN ON THIS PLAN.

ANY ERRORS, AMBIGUITIES OR OMISSIONS IN THIS PLAN OR SPECIFICATIONS SHALL BE REPORTED TO STREIVOR, INC. FOR CORRECTIONS BEFORE ANY OF THE WORK IS STARTED. UNLESS EXPRESSLY STIPULATED, NO ADDITIONAL ALLOWANCE WILL BE MADE IN FAVOR OF THE OWNER OR CONTRACTOR BY VIRTUE OF ERROR, AMBIGUITY OR OMISSION WHICH MAY HAVE BEEN CORRECTED AFTER THE PERFORMANCE OF WORK ESTIMATES, AND DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN A TIMELY MANNER.

CUSTOMER APPROVAL

COOKING EQUIPMENT VERIFICATION

VERIFY THE FOLLOWING:

HIGH BACK SHELVES	YES ☐	NO ☐
RANGE COOKING SURFACE DEPTH GREATER THAN 28"	YES ☐	NO ☐
PULL STATION LOCATION(S)	YES ☐	NO ☐
UTILITY CABINET LOCATION(S)	YES ☐	NO ☐
AGENT DISTRIBUTION HOSE AND RESTRAINING CABLE KIT	YES ☐	NO ☐
CEILING HEIGHT	___'- ___"	

APPROVED BY DATE

NOTE TO REVIEWER:

ANY CHANGES IN COOKING EQUIPMENT SUCH AS EQUIPMENT POSITION, TYPE AND/OR INCREASE IN ENERGY OUTPUT MAY EFFECT EXHAUST AIRFLOW. STREIVOR AIR SYSTEMS MUST BE NOTIFIED OF ANY CHANGES THAT OCCUR PRIOR TO FABRICATION, A RE-ENGINEERING OF THE EXHAUST AIRFLOW MAY BE REQUIRED. ADDITIONAL SITE VISIT FOR FIRE SUPPRESSION PRE-TEST IS NOT INCLUDED UNLESS SPECIFICALLY LISTED IN QUOTE.

PROJECT:

CDCR PELICAN BAY

5905 LAKE EARL DRIVE
CRESCENT CITY, CA 95531

THE MARSHALL ASSOCIATES

ITEM #:	24
SYSTEM #:	3
HOOD #:	23A, 23B, & 23C
DATE:	04/11/2023
DRAWN BY:	KCS
CHECKED BY:	SWB
CONSULTANT:	THE MARSHALL ASSOCIATES
SCALE: (UNLESS OTHERWISE NOTED)	1/2" = 1' - 0"

1" BAR DOES NOT MEASURE 1" THIS DRAWING IS NOT PLOTTED TO SCALE

	DESCRIPTION	DATE	INT
1	PLAN CHECK COMMENTS	03/19/24	KCS
2	---	-/-/--	---
3	---	-/-/--	---
4	---	-/-/--	---
5	---	-/-/--	---

DRAWING:

F-04

SHEET 04 OF 11

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STREIVOR™ AIR SYSTEMS
"STRIVING FOR EXCELLENCE"
2150 KITTY HAWK ROAD, LIVERMORE, CA 94551
PHONE: (925) 960-9090 FAX:(925) 960-9055
WWW.STREIVOR.COM

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY

11/04/24
23-5898

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

REV.	DATE:	DESCRIPTION

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS
Project No.: 5882.00

HIBSER YAMAUCHI Architects, Inc.
4602 2nd Street, Suite #3
Davis, CA 95618
530.758.1270 office
530.758.4789 fax

LICENSED ARCHITECT
KEN YAMAUCHI
C-26566
02-28-2025
RENEWAL DATE
STATE OF CALIFORNIA

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

SHEET TITLE: BUILDING C04 - ADMIN BUILDING FIRE SUPPRESSION MFR PLAN

CDCR DWG. NOS.: 20-034

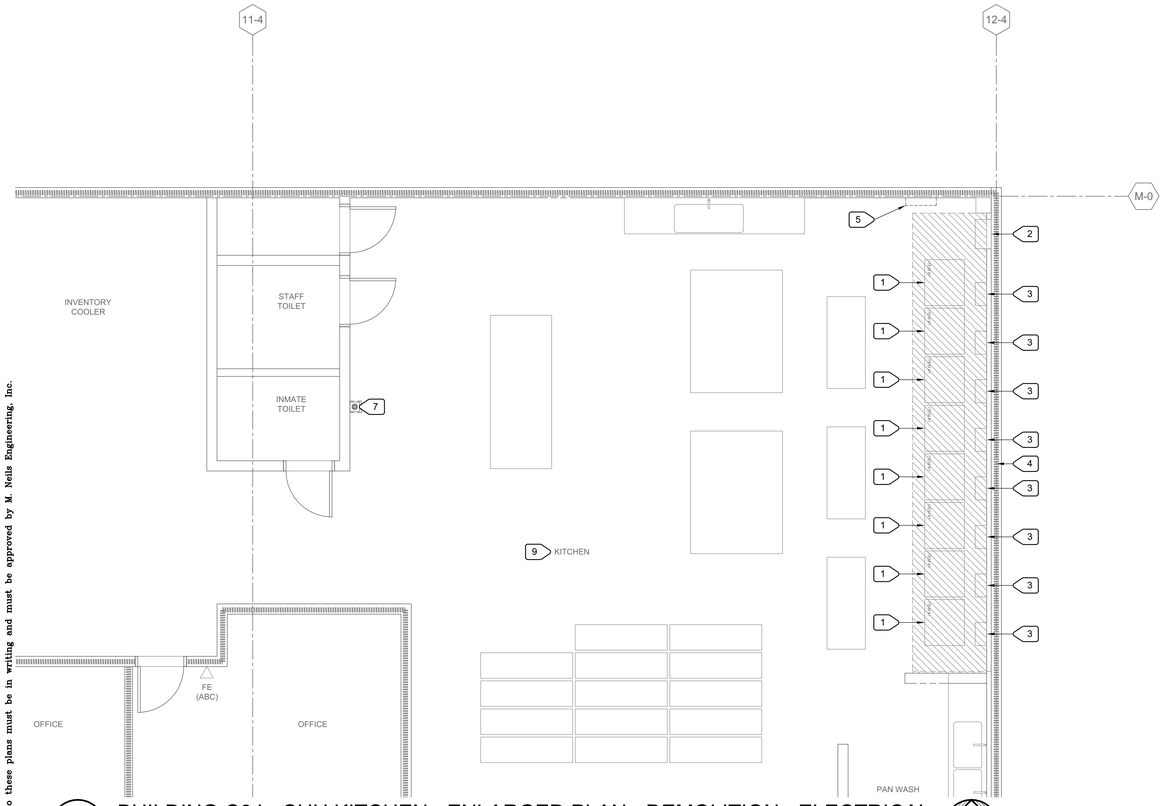
CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

The Marshall Associates, Inc.
Foodservice & Laundry Consultants/Designers
3000 Danville Blvd Suite F-344 Alamo, CA 94507
2129 4th Street Santa Rosa, CA 95404
415/677-1200 Fax 415/677-1210

SHEET NUMBER

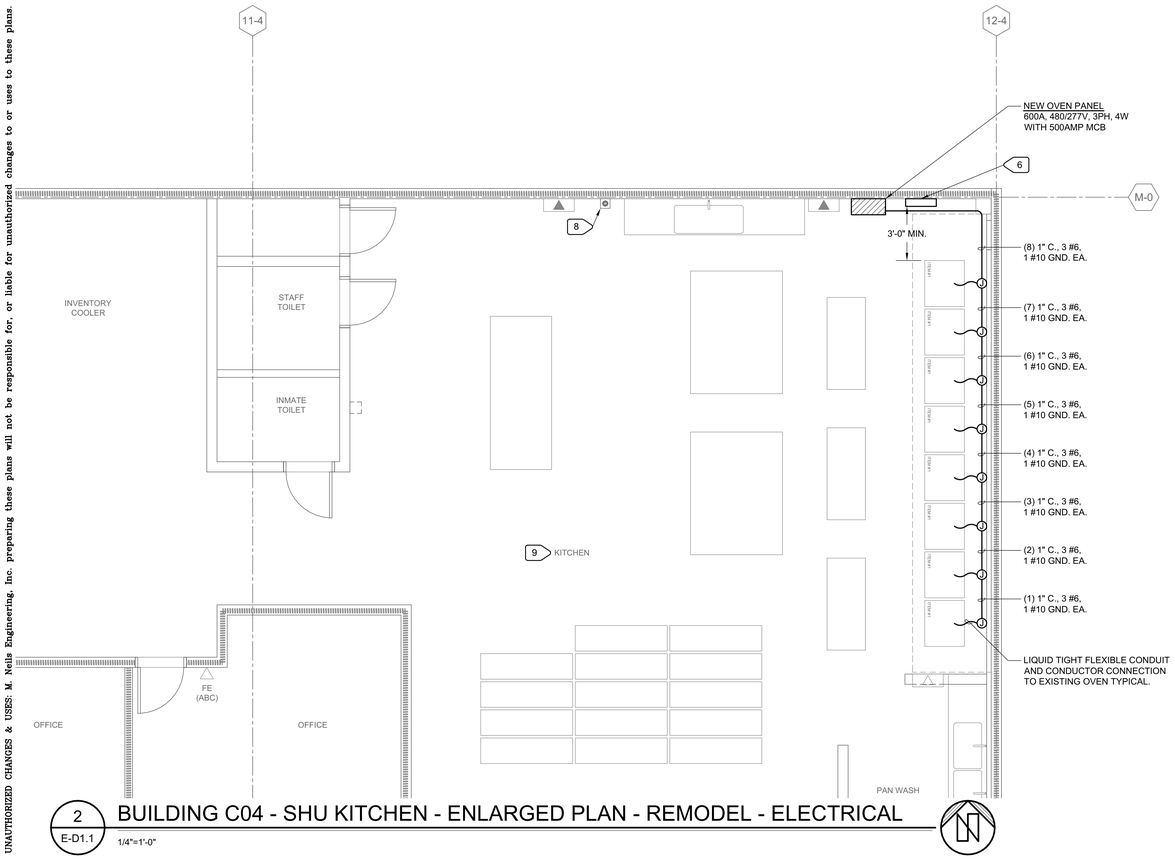
FS-D1.3

V3



1 E-D1.1 BUILDING C04 - SHU KITCHEN - ENLARGED PLAN - DEMOLITION - ELECTRICAL

1/4"=1'-0"



2 E-D1.1 BUILDING C04 - SHU KITCHEN - ENLARGED PLAN - REMODEL - ELECTRICAL

1/4"=1'-0"

NUMBERED NOTES

1. DISCONNECT EXISTING OVEN FROM EXISTING ELECTRICAL SOURCE.
2. EXISTING OVEN ELECTRICAL PANEL TO BE REMOVED. EXISTING OVENS TO BE RE-FED FROM NEW OVEN PANEL. EXISTING CONTROLS FOR VENTILATOR LIGHTS, DCO (DUPLEX CONVENIENCE OUTLET) AND EXHAUST FAN TO BE RELOCATED TO THE EXTERIOR SURFACE OF THE HOOD. CIRCUITS TO THE VENTILATOR LIGHTS, DCO AND EXHAUST FAN TO REMAIN CONNECTED TO THE EXISTING CIRCUITS.
3. EXISTING ELECTRICAL DISCONNECT TO BE REMOVED.
4. SURFACE ELECTRICAL GUTTER RACEWAY TO BE REMOVED.
5. EXISTING FIRE SUPPRESSION SYSTEM CONTROL PANEL TO BE REMOVED. DISCONNECT EXISTING 120V POWER CIRCUIT AND FIRE ALARM MONITORING CIRCUIT AND PROTECT FOR CONNECTION TO NEW PANEL.
6. NEW FIRE SUPPRESSION SYSTEM CONTROL PANEL. RECONNECT TO EXISTING 120V POWER CIRCUIT AND FIRE ALARM MONITORING CIRCUIT. SEE DETAIL "1/E-0.1" ON SHEET E-0.1".
7. EXISTING FIRE ALARM PULL STATION TO BE RELOCATED. SEE REMODEL PLAN FOR NEW LOCATION.
8. RELOCATED EXISTING FIRE ALARM PULL STATION. RECONNECT TO EXISTING FIRE ALARM CIRCUIT. RECONNECT TO THE UP-STREAM AND/OR DOWN-STREAM DEVICE(S) WITHOUT USE OF CABLE SPLICES. RE-PROGRAM AND TEST FIRE ALARM CONTROL PANEL FOR RELOCATED DEVICE.
9. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND RATING OF FIRE RATED WALLS.

NEW OVEN PANEL SCHEDULE

POWER SOURCE: PANEL "QHD1A" LOCATION: SHU KITCHEN
SYSTEM: NORMAL BRANCH

TYPE: BUS: 600 AMPS MAIN BKR: 500A VOLTAGE: 480Y/277 VOLT, 3 PHASE, 4 WIRES MOUNTING: SURFACE PANEL TYPE NEMA 1 REMARKS:

LOAD SERVED	kVA	CB	CKT	PHASE	CKT	CB	kVA	LOAD SERVED
	13.3		1	A	2		13.3	
EXISTING OVEN	13.3	60/3	3	B	4	60/3	13.3	EXISTING OVEN
	13.3		5	C	6		13.3	
	13.3		7	A	8		13.3	
EXISTING OVEN	13.3	60/3	9	B	10	60/3	13.3	EXISTING OVEN
	13.3		11	C	12		13.3	
	13.3		13	A	14		13.3	
EXISTING OVEN	13.3	60/3	15	B	16	60/3	13.3	EXISTING OVEN
	13.3		17	C	18		13.3	
	13.3		19	A	20		13.3	
EXISTING OVEN	13.3	60/3	21	B	22	60/3	13.3	EXISTING OVEN
	13.3		23	C	24		13.3	
SPACE		PFB	25	A	26	PFB		SPACE
SPACE		PFB	27	B	28	PFB		SPACE
SPACE		PFB	29	C	30	PFB		SPACE
SPACE		PFB	31	A	32	PFB		SPACE
SPACE		PFB	33	B	34	PFB		SPACE
SPACE		PFB	35	C	36	PFB		SPACE
SPACE		PFB	37	A	38	PFB		SPACE
SPACE		PFB	39	B	40	PFB		SPACE
SPACE		PFB	41	C	42	PFB		SPACE

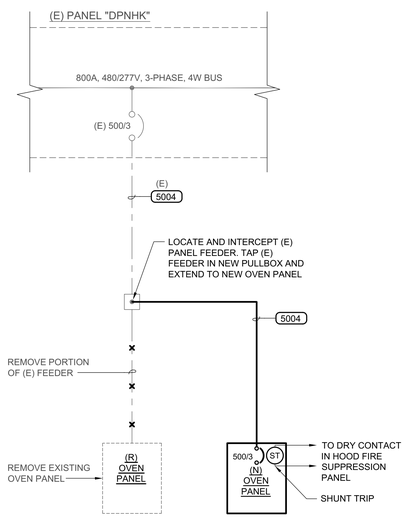
NOTES:

CONNECTED LOAD

PHASE A=	106.4	kVA
PHASE B=	106.4	kVA
PHASE C=	106.4	kVA
TOTAL =	319.2	kVA
TOTAL =	384.1	Amperes

FEEDER SCHEDULE

TAG	DESCRIPTION
5004	(2) 3" C., 2 SETS OF (4 #250 ,AND 1 #2 GND.)



3 E-D1.1 PARTIAL ONE-LINE POWER DIAGRAM

NO SCALE

CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

REGISTERED PROFESSIONAL ENGINEER
JESSE U. BASTIAN
No. E20229
Exp. 03-31-25
ELECTRICAL
STATE OF CALIFORNIA
10/15/2024

M. NEILS ENGINEERING, INC.
Electrical Engineers | Lighting Designers
100 Howe Ave., Suite 235N
Sacramento, CA 95825-8217
www.mneilsengineering.com
Tel: (916) 923-4400
PROJECT #: 22238.21
PROJECT MGR: Stuart Lindsay

STATE OF CALIFORNIA - DEPARTMENT OF CORRECTIONS AND REHABILITATION

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
11/04/24
23-5898
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REV.	DATE:	DESCRIPTION

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS
Project No: 5892.00

HIBSER YAMAUCHI Architects, Inc.
4602 2nd Street, Suite #3
Davis, CA 95616
530.758.1270 office
530.758.4769 fax

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PBSP

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

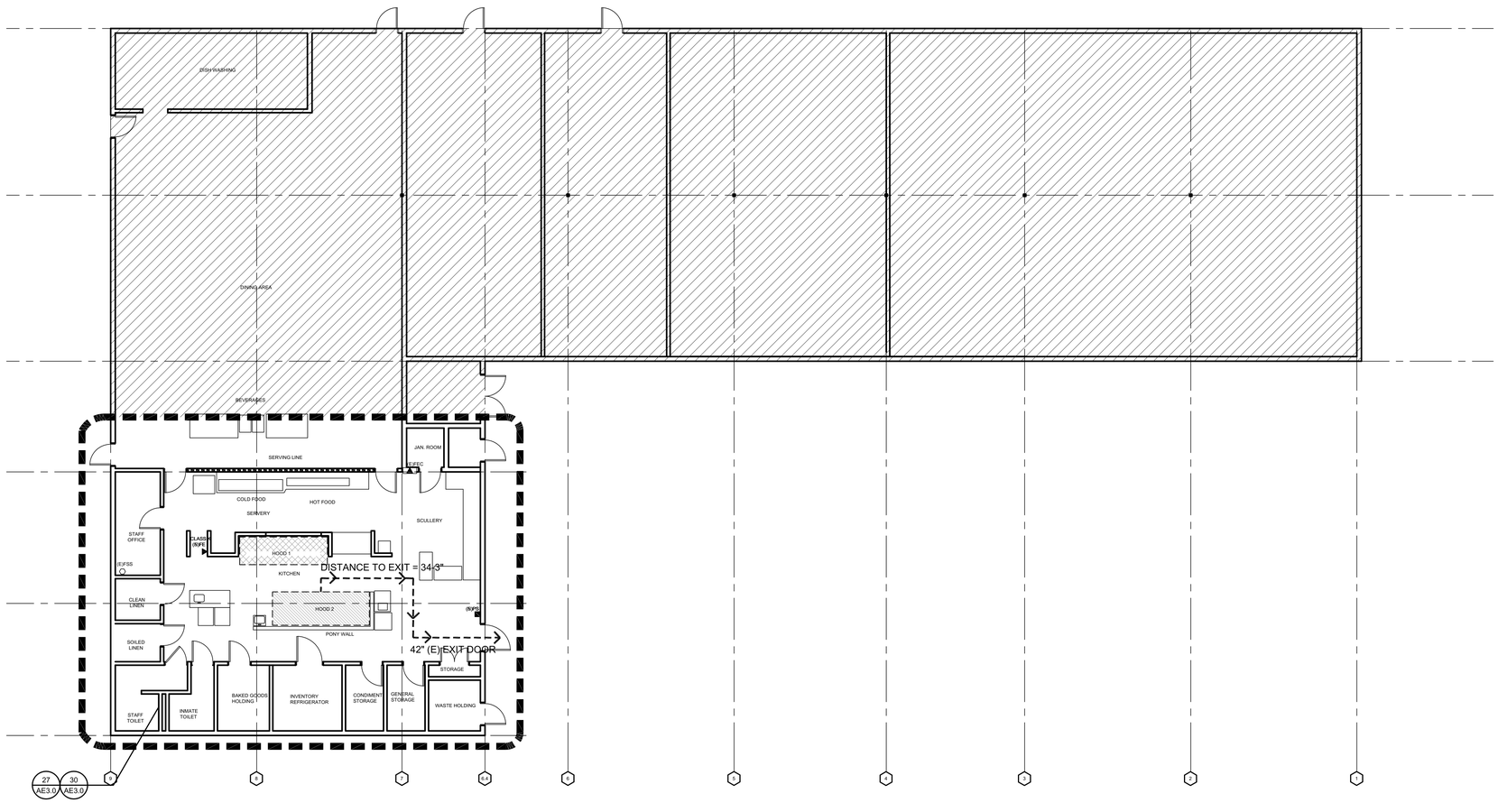
SHEET TITLE: BUILDING C04 - SHU KITCHEN - ENLARGED DEMOLITION AND REMODEL PLANS - ELECTRICAL

CDCR PBSP Nos.: 20-034

SHEET NUMBER
E-D1.1
V3

UNAUTHORIZED CHANGES & USES: M. Neils Engineering, Inc. preparing these plans will not be responsible for, or liable for unauthorized changes to or uses to these plans. All changes to these plans must be in writing and must be approved by M. Neils Engineering, Inc.

Oct 15, 2024 – 2:29pm, / kerlo



1 BUILDING C05 - LEVEL 1 KITCHEN - BUILDING PLAN

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

GENERAL NOTES

1. DESIGN, FURNISH, INSTALL AND TEST NEW FIRE SYSTEM.
2. FIELD VERIFY ALL EXISTING CONDITIONS AS NECESSARY FOR THE WORK. DRAWINGS WERE PRODUCED FROM FIELD NOTES.
3. NEW SUPPRESSION MANUAL PULL STATION TO BE WITHIN THE KITCHEN ROOM, BETWEEN 10FT TO 20FT FROM THE HOOD AND IN ROUTE THE EXIT DOOR.
4. NEW (K) CLASS FIRE EXTINGUISHER TO BE WITHIN 30FT FROM THE HOOD. IF NEEDED PROVIDE A SECOND EXTINGUISHER AS SHOWN IN DRAWINGS.
5. AFTER CONSTRUCTION IS COMPLETE, REPAIR ADJACENT SURFACES TO MATCH EXISTING IN PRE-CONSTRUCTION CONDITION. SEE DRAWINGS TO ENSURE PROPER FIRE RATING IS MAINTAINED.
6. NEW PULL STATIONS TO BE INSTALLED WITH OPERABLE PARTS NOT HIGHER THAN 48" AFF. PROVIDE ACCESSIBLE CLEARANCE IN FRONT OF THE PULL STATION.
7. NEW FIRE EXTINGUISHERS TO BE MOUNTED IN A CABINET WITH TOP SET AT 48" MAX. AFF. FOR RECESSED CABINET INSTALL SO IT DOES NOT PROTRUDE MORE THAN 4" OUT OF THE WALL, UON.
8. THE REMOVAL OF CONDUIT OR PIPING SHALL BE SEALED WITH LISTED OR EQUIVALENT LIQUID TIGHT SEALING DEVICES. (NFPA 96 SECTION: 10.2.7.2)
9. FOR STRUCTURAL ANCHORAGE FOR KITCHEN EQUIPMENT SEE SHEET S9.0 AND S9.1

LEGEND

AREA NOT IN SCOPE

PATH OF TRAVEL TO EXIT

CDCR ACCESS COMPLIANCE

1334 1/8/2025
CASp-491

N

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APPROVED FIRE AND PANIC ONLY

11/04/24
23-8898

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REV.	DATE:	DESCRIPTION

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS
Project No: 5892.00

HIBSER YAMAUCHI Architects, Inc.
4602 2nd Street, Suite #3
Davis, CA 95618
530.753.4279 office
530.758.4789 fax

LICENSED ARCHITECT
KEN YAMAUCHI
C-28566
02-28-2025
RENEWAL DATE
STATE OF CALIFORNIA

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

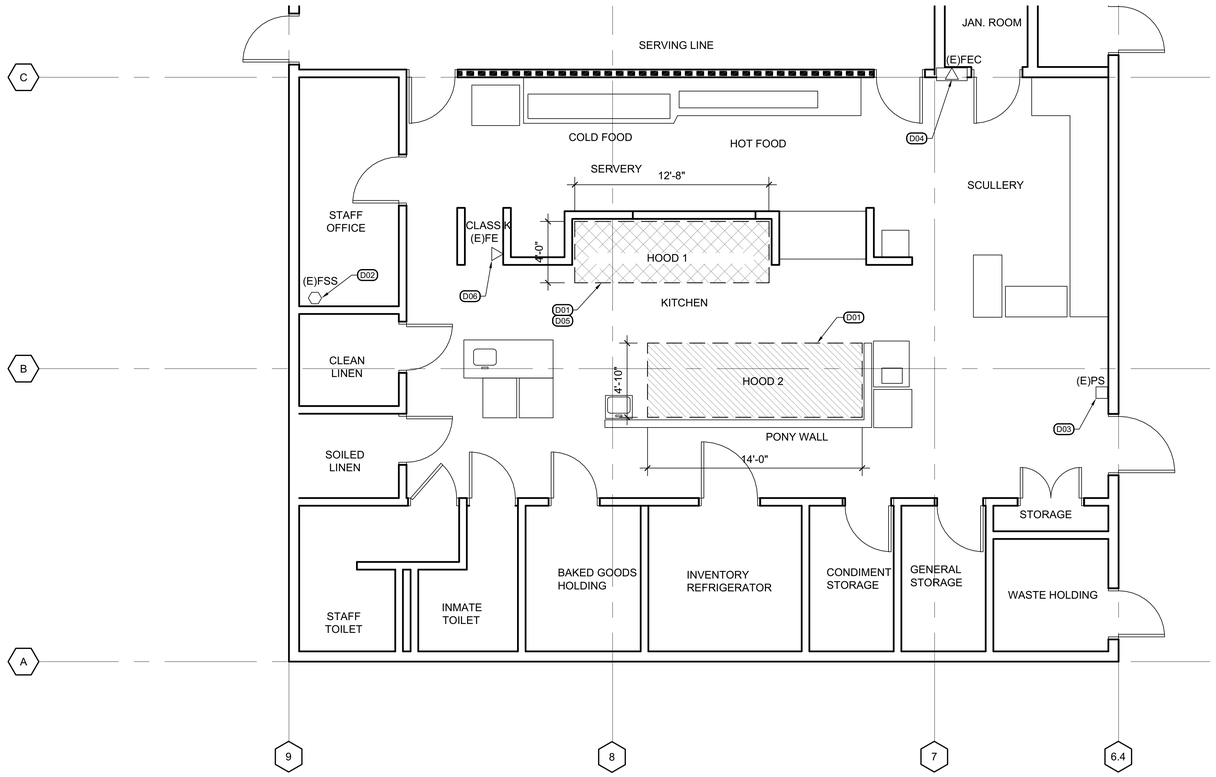
SHEET TITLE: **BUILDING C05, LEVEL 1 KITCHEN**
BUILDING PLAN

CDCR 20-034
ADA No.:

SHEET NUMBER
AE2.0

V3

10/27/2023 12:32 PM

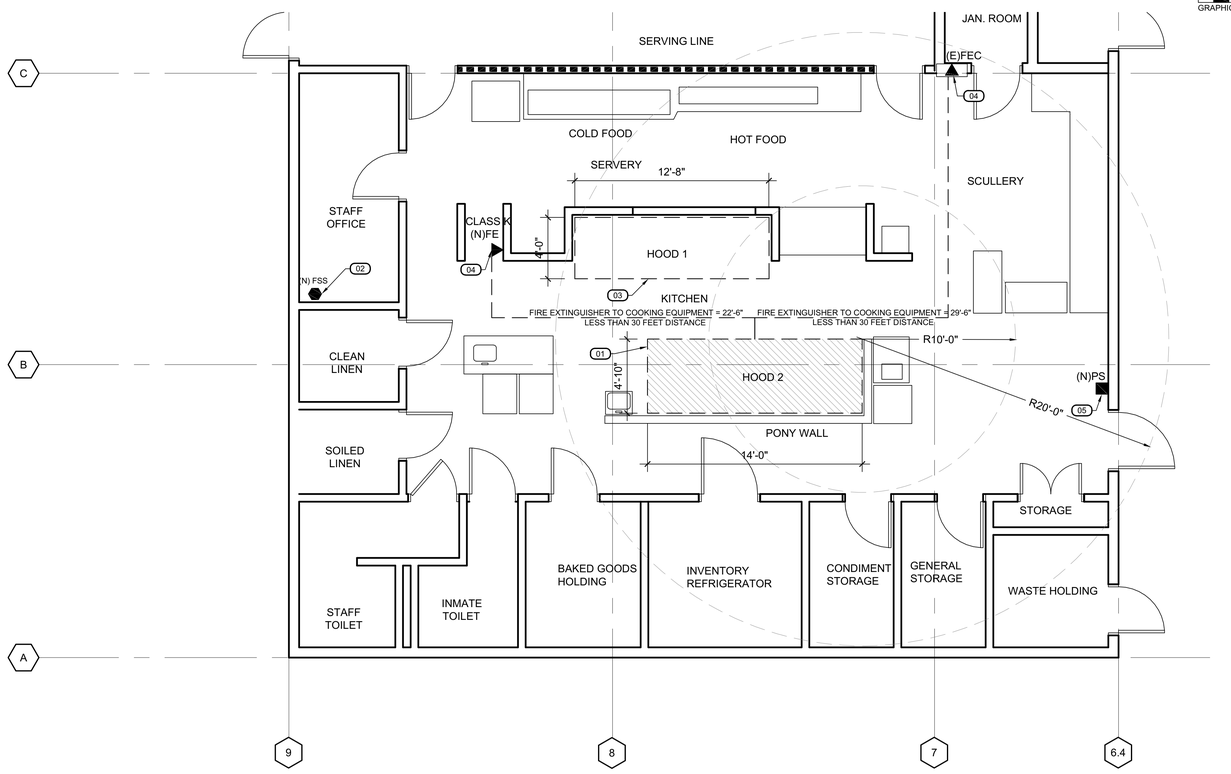


27 BUILDING C05 - LEVEL 1 KITCHEN - ENLARGED PLAN - DEMOLITION

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

GRAPHIC SCALE: 0 1' 2' 4' 8' 12' — 1/4" = 1'-0"

N



30 BUILDING C05 - LEVEL 1 KITCHEN - ENLARGED PLAN - REMODEL

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

GRAPHIC SCALE: 0 1' 2' 4' 8' 12' — 1/4" = 1'-0"

N

GENERAL NOTES

1. DESIGN, FURNISH, INSTALL AND TEST NEW FIRE SYSTEM.
2. FIELD VERIFY ALL EXISTING CONDITIONS AS NECESSARY FOR THE WORK. DRAWINGS WERE PRODUCED FROM FIELD NOTES.
3. NEW SUPPRESSION MANUAL PULL STATION TO BE WITHIN THE KITCHEN ROOM, BETWEEN 10FT TO 20FT FROM THE HOOD AND IN ROUTE THE EXIT DOOR.
4. NEW (K) CLASS FIRE EXTINGUISHER TO BE WITHIN 30FT FROM THE HOOD. IF NEEDED PROVIDE A SECOND EXTINGUISHER AS SHOWN IN DRAWINGS.
5. AFTER CONSTRUCTION IS COMPLETE, REPAIR ADJACENT SURFACES TO MATCH EXISTING IN PRE-CONSTRUCTION CONDITION. SEE DRAWINGS TO ENSURE PROPER FIRE RATING IS MAINTAINED.
6. NEW PULL STATIONS TO BE INSTALLED WITH OPERABLE PARTS NOT HIGHER THAN 48" AFF. PROVIDE ACCESSIBLE CLEARANCE IN FRONT OF THE PULL STATION.
7. NEW FIRE EXTINGUISHERS TO BE MOUNTED IN A CABINET WITH TOP SET AT 48" MAX. AFF. FOR RECESSED CABINET INSTALL SO IT DOES NOT PROTRUDE MORE THAN 4" OUT OF THE WALL, UON.
8. THE REMOVAL OF CONDUIT OR PIPING SHALL BE SEALED WITH LISTED OR EQUIVALENT LIQUID TIGHT SEALING DEVICES. (NFPA 96 SECTION: 10.2.7.2)
9. FOR STRUCTURAL ANCHORAGE FOR KITCHEN EQUIPMENT SEE SHEET S9.0 AND S9.1

DEMOLITION LEGEND

	EXISTING KITCHEN HOOD TO REMAIN. ANSUL SYSTEM TO BE REPLACED. SEE FS DRAWINGS FOR DETAILS AND EQUIPMENT LAYOUT.
	EXISTING KITCHEN HOOD TO BE DECOMMISSIONED. REMOVE (E) ANSUL SYSTEM. POST SIGNAGE PER DETAIL 2/A9.0
FSS	(E) FIRE SUPPRESSION SYSTEM CONTROL BOX
FEC	(E) FIRE EXTINGUISHING CABINET WITH FIRE HOSE AND FIRE EXTINGUISHER INSIDE.
PS	(E) PULL STATION LOCATION
FE (ABC)	(E) ABC-CLASS PORTABLE FIRE EXTINGUISHER
FE (K)	(E) K-CLASS PORTABLE FIRE EXTINGUISHER

REMODEL LEGEND

FSS	(N) FIRE SUPPRESSION SYSTEM CONTROL BOX
	DISTANCE FROM FIRE EXTINGUISHER TO COOKING EQUIPMENT. 30 FEET MAXIMUM UNOBSTRUCTED DISTANCE.
FE (ABC)	(N) ABC-CLASS PORTABLE FIRE EXTINGUISHER
FE (K)	(N) K-CLASS PORTABLE FIRE EXTINGUISHER

DEMOLITION KEYNOTES

- D01 (E) HOOD TO REMAIN. (E) ANSUL SYSTEM TO BE REMOVED AND REPLACED.
- D02 (E) FIRE SUPPRESSION SYSTEM CONTROL BOX TO BE REMOVED AND REPLACED.
- D03 (E) PULL STATION TO BE REMOVED.
- D04 (E) FIRE EXTINGUISHER CABINET TO REMAIN. REPLACE FIRE EXTINGUISHER. SEE FS DRAWINGS FOR SIZING.
- D05 (E) KITCHEN HOOD TO BE DECOMMISSIONED. REMOVE (E) NOZZLES AND TUBING WITHIN THE HOOD. DECOMMISSIONED HOOD TO REMAIN.
- D06 (E) CLASS K FIRE EXTINGUISHER TO BE REMOVED.

REMODEL KEYNOTES

- 01 ANSUL SYSTEM TO BE REPLACED. SEE FS DRAWINGS FOR DETAILS AND EQUIPMENT LOCATIONS.
- 02 (N) FIRE SUPPRESSION SYSTEM CONTROL BOX. SEE FS DRAWINGS.
- 03 POST SIGNAGE STATING THAT KITCHEN COOKING EQUIPMENT AND COOKING IS PROHIBITED. SEE DETAIL 2/A9.0
- 04 REPLACE K CLASS FIRE EXTINGUISHER. SEE FS DRAWINGS FOR SIZING
- 05 (N) PULL STATION. SEE FS DRAWING.

CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project No: 5892.00
Project Phase: FINAL DRAWINGS

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
11/04/24
23-5898
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REV.	DATE:	DESCRIPTION

HIBSER YAMAUCHI Architects, Inc.
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LICENSED ARCHITECT
KEN YAMAUCHI
C-26566
02-28-2025
RENEWAL DATE
STATE OF CALIFORNIA

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

SHEET TITLE: BUILDING C05 - LEVEL 1 KITCHEN - ENLARGED PLAN - DEMOLITION AND REMODEL

CDCR Job No.: 20-034

SHEET NUMBER
AE3.0

V3

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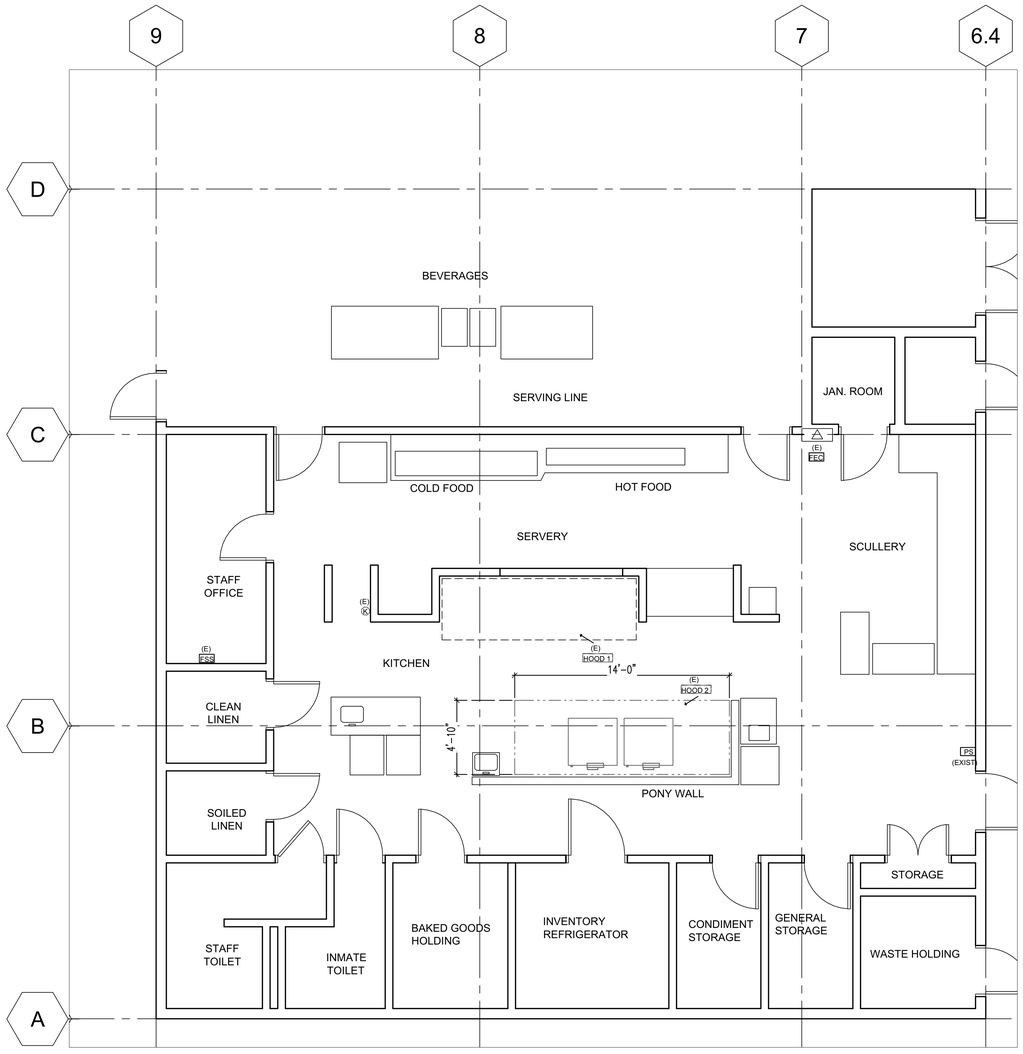

30 BLDG C05 LEVEL 1 KITCHEN HOOD #2 - FIRE SUPPRESSION EQUIPMENT DEMO PLAN

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

GENERAL NOTES:

A. ALL EQUIPMENT TO HAVE NSF, ETL SANITATION OR UL SANITATION APPROVALS.

B. INSTALLATION TO MEET CALIFORNIA RETAIL FOOD CODE (CRFC) LATEST EDITION.

FIRE SUPPRESSION CONTRACTOR TO:

A. REMOVE EXISTING FIRE SUPPRESSION SYSTEM AND ALL COMPONENTS.

B. REFER TO ARCHITECTURAL DRAWING SHEET NOTES FOR NOTES AND GUIDELINES REGARDING EXISTING CONDITION GUIDELINES

HOOD 1: THIS EXISTING HOOD IS BEING DECOMMISSIONED. REMOVE (E) NOZZLES AND TUBING FROM WITHIN THE HOOD. POST SIGNAGE STATING THAT KITCHEN COOKING EQUIPMENT AND COOKING IS PROHIBITED. SEE DETAIL 2/A9.0

SYMBOLS

(E) FSS EXISTING FIRE SUPPRESSION SYSTEM; TO BE REMOVED

(E) PS EXISTING FIRE PROTECTION PULL BOX; TO BE REMAIN

(E) FEC EXISTING FIRE EXTINGUISHER CABINET; TO REMAIN

(E) K EXISTING TYPE K FIRE EXTINGUISHER; TO BE REMOVED

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The Marshall Associates, Inc.
Foodservice & Laundry Consultants/Designers
3000 Danville Blvd Suite F-344 Alamo, CA 94507
2129 4th Street Santa Rosa, CA 95404
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C-26566
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5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

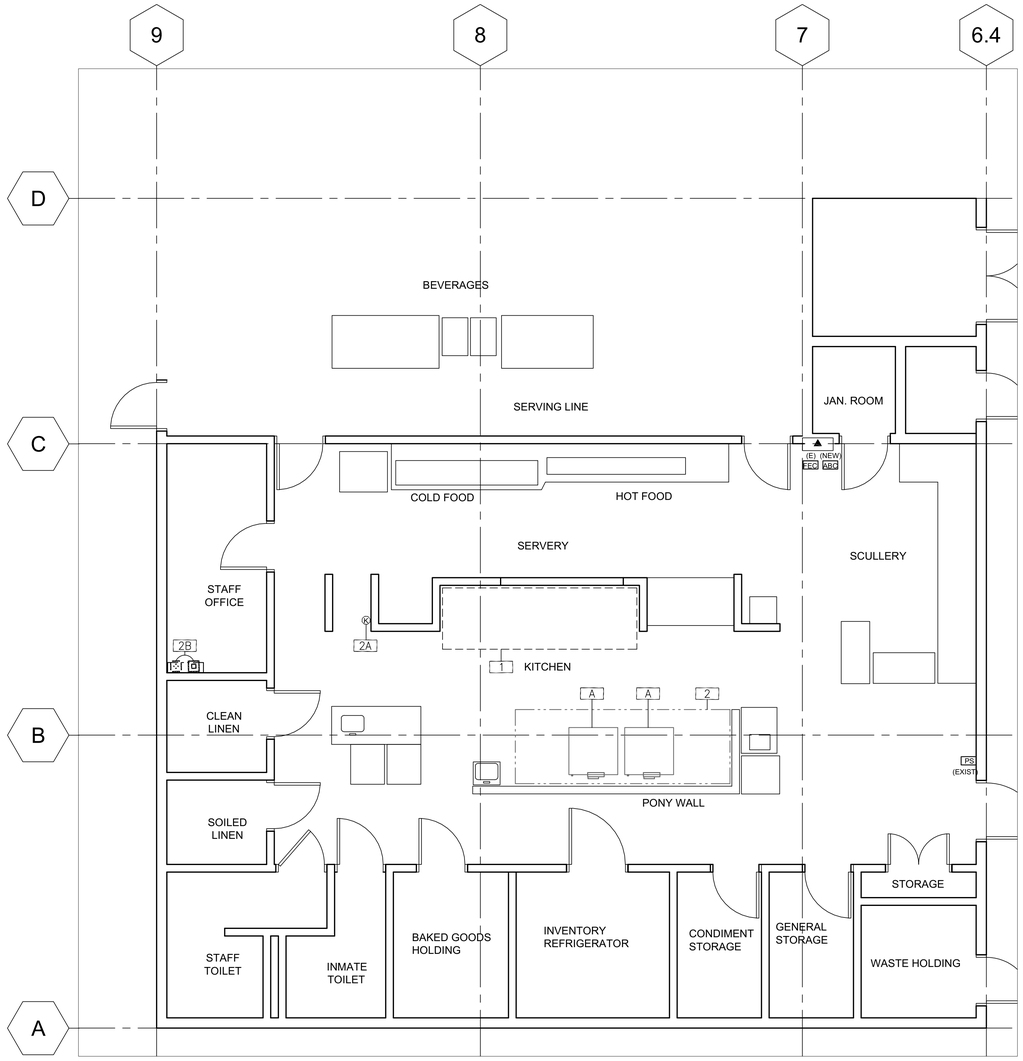
DATE: JULY 19, 2024

SHEET TITLE: BUILDING C05 - LEVEL 1 KITCHEN
FIRE SUPPRESSION DEMO PLAN

CDCR JOB No.: 20-034

SHEET NUMBER
FS-E1.1

V3



30 BLDG C05 LEVEL 1 KITCHEN HOOD #2 - FIRE SUPPRESSION NEW EQUIPMENT PLAN

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

EQUIPMENT SCHEDULE

ITEM	QTY	DESCRIPTION	MANUFACTURER	MODEL NUMBER	NOTES
1	1	EXHAUST HOOD	EXISTING; TO BE DECOMMISSIONED	NOT PART OF FSEC CONTRACT	NIC
2	1	EXHAUST HOOD (TYPE-I)	EXISTING; IN PLACE	NOT PART OF FSEC CONTRACT	NIC
2A	1	CLASS K FIRE EXTINGUISHER	BUCKEYE	WC-6L	
2B	1	FIRE PROTECTION SYSTEM	STREIVOR AIR SYSTEMS	PYRO-CHEM KITCHEN KNIGHT II	
A	2	ELECTRIC CONVECTION OVEN	GARLAND (EXISTING)	MCO-ED-20-5 (EXISTING)	NIC

ABBREVIATIONS:

FSEC	FOODSERVICE EQUIPMENT CONTRACTOR		
S/S	STAINLESS STEEL	CKT	CIRCUIT
U/C	UNDER COUNTER		
S&T	SOAP AND TOWEL		
NIC	NOT IN CONTRACT		

ELECTRICAL ROUGH-IN

ITEM	QTY	DESCRIPTION	CONNECTED LOAD							CONNECTION TYPE		
			120/1	120/208/1	120/208/3	208/1	208/3	480/3	HT	C&P	RECP	HW
2	1	EXHAUST HOOD (TYPE-I)	(E)									
2A	1	CLASS K FIRE EXTINGUISHER										
2B	1	FIRE PROTECTION SYSTEM	20A CKT						FA			*

ABBREVIATIONS:

C&P	CORD AND PLUG	STUB	UTILITY UP FROM FLOOR
RECP	RECEPTACLE	DC	DROP CORD WITH RECEPTACLE
HW	HARDWIRE	CKT	CIRCUIT
HT	HEIGHT	E	EXISTING
FA	FROM ABOVE		

SCHEDULE / DRAWING NOTES:

CONNECTED LOAD = EACH CONNECTION SHOWN ON DRAWING

CONNECTION TYPES PROVIDED BY ELECTRICAL DIVISION

SHEET NOTES

FIRE SUPPRESSION CONTRACTOR TO PROVIDE:

A. WORK AS DESCRIBED IN CONTRACT DOCUMENTS AND SUPPLEMENTAL REQUIREMENTS PER FIRE SUPPRESSION EQUIPMENT SECTION.

B. ROUGH-IN AND FINAL CONNECTION TO ALL FIRE SUPPRESSION EQUIPMENT AS INDICATED ON DRAWINGS AND IN ELECTRICAL ROUGH-IN SCHEDULE.

C. ALL JUNCTION-BOXES, ELECTRICAL OUTLETS, COVER PLATES, SWITCHES NOT BUILT INTO FIXTURES OR EQUIPMENT.

D. SHUNT TRIP CIRCUIT BREAKERS FOR ALL FOODSERVICE EQUIPMENT BELOW EXHAUST HOODS.

E. INCLUDE DORMONT POSI-SET CASTER PLACEMENT SAFETY SYSTEM FOR ALL EXISTING MOBILE COOKING EQUIPMENT BELOW EXISTING HOODS AFTER NEW FIRE SUPPRESSION SYSTEM HAS BEEN INSTALLED. SEE S9.1 FOR DETAIL

F. ALL OTHER EXISTING EQUIPMENT TO BE ANCHORED PER REQUIREMENTS SHOWN ON S9.1

INTERCONNECTION BETWEEN:

A. FIRE PROTECTION SYSTEM AND BUILDING LIFE SAFETY.

SYMBOLS

(E) FEC — EXISTING FIRE EXTINGUISHER CABINET; TO REMAIN

(E) PS — EXISTING FIRE PROTECTION PULL BOX; TO REMAIN

ABC — NEW ABC FIRE EXTINGUISHER SEE SHEET AA3.0 FOR MAKE/MODEL

K — NEW TYPE K FIRE EXTINGUISHER BUCKEYE; MODEL WC-6L

JUNCTION BOX ROUGH-IN

JUNCTION BOX CONNECTION PROVIDED IN EQUIPMENT

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1334 1/8/2025
CASp-491

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FS-E1.2

V3

LISTINGS & STANDARDS

THIS WET CHEMICAL EXTINGUISHING SYSTEM IS ENGINEERED TO PROVIDE FIRE PROTECTION FOR RESTAURANT HOODS, DUCTS AND COOKING APPLIANCES, IS **UL 300** LISTED AND IS TO BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS:

- NFPA 17A 2021 EDITION
- NFPA 10 2018 EDITION
- NFPA 96 2021 EDITION

SECTIONS & CODES

NFPA 10 2018 EDITION

(6.6.2) MAXIMUM TRAVEL DISTANCE SHALL NOT EXCEED 30 FT (9.1 M) FROM THE HAZARD TO THE EXTINGUISHER(S)

NFPA 17A 2021 EDITION

(5.2.1.10.1) EACH MANUAL ACTUATION DEVICE SHALL BE INSTALLED NO MORE THAN 48 IN. (1200 MM) AND NO LESS THAN 42 IN. (1067 MM) ABOVE THE FLOOR.

NFPA 96 2021 EDITION

(8.2.3.1) A HOOD EXHAUST FAN(S) SHALL CONTINUE TO OPERATE AFTER THE EXTINGUISHING SYSTEM HAS BEEN ACTIVATED UNLESS FAN SHUTDOWN IS REQUIRED BY A LISTED COMPONENT OF THE VENTILATION SYSTEM OR BY THE DESIGN OF THE EXTINGUISHING SYSTEM.

(8.2.3.2) THE HOOD EXHAUST FAN SHALL START UPON ACTIVATION OF THE EXTINGUISHING SYSTEM IF THE EXHAUST FAN AND ALL COOKING EQUIPMENT SERVED BY THE FAN HAVE BEEN SHUT DOWN, UNLESS FAN SHUTDOWN IS REQUIRED BY A LISTED COMPONENT OF THE VENTILATION SYSTEM OR BY THE LISTING OF THE EXTINGUISHING SYSTEM.

(8.3.2) WHEN THE FIRE-EXTINGUISHING SYSTEM ACTIVATES, MAKEUP AIR SUPPLIED INTERNALLY TO A HOOD SHALL BE SHUT OFF.

(10.4.1) UPON ACTIVATION OF ANY FIRE EXTINGUISHING SYSTEM FOR A COOKING OPERATION, ALL ~~SOURCES OF FUEL~~ AND ELECTRICAL POWER THAT PRODUCE HEAT TO ALL EQUIPMENT REQUIRING PROTECTION BY THAT SYSTEM SHALL AUTOMATICALLY SHUT OFF.

(10.4.3) ~~GAS APPLIANCE NOT REQUIRING PROTECTION BUT LOCATED UNDER VENTILATING EQUIPMENT WHERE PROTECTED APPLIANCES ARE LOCATED SHALL BE AUTOMATICALLY SHUT OFF UPON ACTIVATION OF THE EXTINGUISHING SYSTEM~~

(10.4.4) SHUTOFF DEVICE SHALL REQUIRE MANUAL RESETTING PRIOR TO FUEL / POWER BEING RESTORED

(10.5.1.1) AT LEAST ONE MANUAL ACTUATION DEVICE SHALL BE LOCATED IN A MEANS OF EGRESS OR AT A LOCATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.

(10.5.1.2) THE MANUAL ACTUATION DEVICE SHALL CLEARLY IDENTIFY THE HAZARD PROTECTED.

CMC 2022 EDITION

(513.5) ALL SYSTEMS SHALL HAVE BOTH AUTOMATIC AND MANUAL METHODS OF ACTUATION. AT LEAST ONE MANUAL ACTUATION DEVICE SHALL BE LOCATED IN A MEANS OF EGRESS OR AT A LOCATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.

INSTALLATION REQUIREMENTS

1. ALL PIPE SHALL BE SCHEDULE 40 BLACK IRON. CHROME PLATED/SLEEVED WHERE EXPOSED.
2. ALL CYLINDER SYSTEMS SHALL HAVE 3/8" SUPPLY LINES AND 3/8" BRANCH LINES.
3. ALL WIRE ROPE SHALL BE 1/16" STAINLESS STEEL AND RUN THROUGH 1/2" EMT CONDUIT.
4. U.L. LISTED CORNER PULLEYS REQUIRED WHENEVER THE STAINLESS STEEL CABLE DIRECTION CHANGES.
5. ALL EQUIPMENT WITH FIRE PROTECTION MUST BE SECURED TO FLOOR. (NOT BY STREIVOR)
6. SWIVEL ADAPTERS MAY BE ADDED TO NOZZLES FOR UP TO 30° ROTATION.

SYSTEM #4

PAGE NUMBERS REFERENCED FROM THE PYROCHEM FIRE SUPPRESSION SYSTEM TECHNICAL MANUAL

CABLE/LINE LIMITATIONS - CONTROL HEAD D

		LENGTH		PULLEYS	BRACKETS
FUSIBLE LINK (pg. 4-5)	MAXIMUM	150.00	FT	40	20
	ALLOTTED	40.00	FT	4	1*
PULL STATION(S) (pg. 4-9)	MAXIMUM	150.00	FT	40	N/A
	ALLOTTED	55.00	FT	2	N/A
GAS VALVE(S) (pg. 4-10)	MAXIMUM	100.00	FT	30	N/A
	ALLOTTED	--.--	FT	--	N/A

*ML STYLE FUSIBLE LINK INCLUDED WITH SYSTEM (NOT SUPPLIED BY STREIVOR). FUSIBLE LINK TEMPERATURE RATING TO BE VERIFIED AND DETERMINED IN FIELD.

CYLINDER #6

COVERAGE DESCRIPTION	NOZZLE	QTY.	FLOW POINTS	PAGE
DUCT	2D	1	2	3-1
PLENUM	1H	2	2	3-3

MODEL	FLOW POINTS			
PCL-300	4	ALLOTTED	10	MAXIMUM

TOTAL				FIRST TO LAST NOZZLE			
LENGTH**		VOLUME		LENGTH**		VOLUME	
33.00	FT	1238	ML	11.00	FT	413	ML

CYLINDER #-

COVERAGE DESCRIPTION	NOZZLE	QTY.	FLOW POINTS	PAGE

MODEL	FLOW POINTS			
		ALLOTTED		MAXIMUM

TOTAL				FIRST TO LAST NOZZLE			
LENGTH**		VOLUME		LENGTH**		VOLUME	
FT		ML		FT		ML	

CYLINDER/PIPING LIMITATIONS

CYLINDER	FLOW POINTS	TOTAL				FIRST TO LAST NOZZLE			
		LENGTH*		VOLUME		LENGTH*		VOLUME	
PCL-460	15	69.33	FT	2600	ML	53.33	FT	2000	ML
PCL-460	14	90.67	FT	3400	ML	80.00	FT	3000	ML
PCL-300	10	50.93	FT	1910	ML	30.00	FT	1125	ML
PCL-160	5	40.00	FT	1500	ML	16.00	FT	600	ML

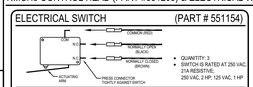
** CALCULATIONS BASED ON 3/8" PIPE (37.5 ML/FT) (SEE pg. 3-18)

LEGEND

- PATH OF EGRESS
- DETECTION LINE ROUTE
- K-CLASS FIRE EXTINGUISHER (NOT SUPPLIED BY STREIVOR)
- GAS VALVE
- PULL STATION
- RESET RELAY
- CONTROL HEAD
- DETECTOR BRACKET (FRONT VIEW)
- DETECTOR BRACKET (PLAN VIEW)
- NOZZLE COVERAGE
- PAC-10 PNEUMATIC TUBING
- FIELD PIPING
- FIELD WIRING NOT BY STRIEVOR
- DUCT NOZZLE MAX PERIMETER
- PLENUM NOZZLE MAX PLENUM LENGTH
- APPLIANCE NOZZLE AND HEIGHT
- DOWNWARD FACING NOZZLE
- ANGLED NOZZLE AND TARGET LOCATION

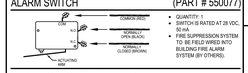
NMCH3 CONTROL HEAD (PART #551203) & ELECTRICAL WIRING

ELECTRICAL SWITCH (PART # 551154)

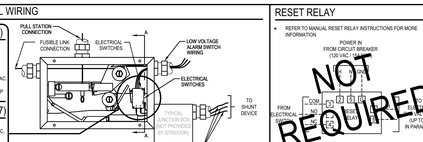


- QUANTITY: 3
- SWITCH IS RATED AT 250 VAC, 21A RESISTIVE; 250 VAC, 2 HP; 125 VAC, 1 HP

ALARM SWITCH (PART # 550077)

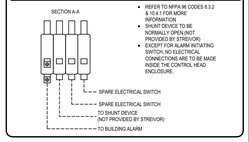


- QUANTITY: 1
- SWITCH IS RATED AT 28 VDC, 50 mA
- FIRE SUPPRESSION SYSTEM TO BE FIELD WIRED INTO BUILDING FIRE ALARM SYSTEM (BY OTHERS).



- EXCEPT FOR ALARM INITIATING SWITCH, NO ELECTRICAL CONNECTIONS ARE TO BE MADE INSIDE THE CONTROL HEAD ENCLOSURE.

ELECTRICAL SWITCH WIRING



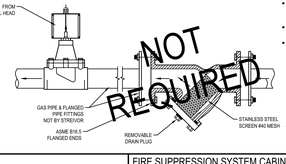
- REFER TO NFPA 96 CODES 8.3.2 & 10.4.1 FOR MORE INFORMATION
- ALL WIRING TO BE NORMALLY OPEN (NO)* PROVIDED BY STREIVOR.
- EXCEPT FOR ALARM INITIATING SWITCH, NO ELECTRICAL CONNECTIONS ARE TO BE MADE INSIDE THE CONTROL HEAD ENCLOSURE.

RESET RELAY

- REFER TO MANUAL RESET RELAY INSTRUCTIONS FOR MORE INFORMATION

MECHANICAL GAS SHUT-OFF VALVE & FLANGED Y-STRAINER

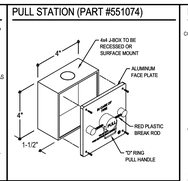
(SEE MEP DRAWINGS FOR LOCATION)



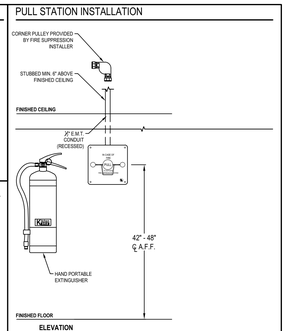
- GAS SHUT-OFF VALVE(S) TO BE SIZED AND LOCATED PER MEP DRAWINGS
  (MAXIMUM VALVE SIZE: 3" NPT)
- VALVE(S) AND STRAINERS TO BE INSTALLED BY DIVISION 22 (PLUMBING)
- Y-STRAINER REQUIRED FOR THE PROTECTION OF THE GAS VALVE. INSTALL A Y-STRAINER ON THE INLET SIDE OF THE GAS VALVE (AS CLOSE AS POSSIBLE).

Y-STRAINER NOT PROVIDED BY STREIVOR UNLESS SPECIFICALLY INCLUDED IN PURCHASE ORDER.

PULL STATION (PART #551074)

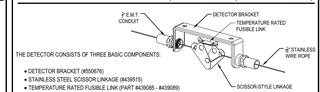


PULL STATION INSTALLATION



DETECTORS

(Series #435546 | Terminal #435547)



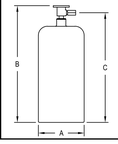
THE DETECTOR CONSISTS OF THREE BASIC COMPONENTS:

- DETECTOR BRACKET (#550676)
- STAINLESS STEEL SCISSOR LINKAGE (#439515)
- TEMPERATURE RATED FUSIBLE LINK (PART #435085 - #439089)
  NOT PROVIDED BY STREIVOR

THE SCISSOR STYLE DETECTOR ALLOWS THE WIRE ROPE TO BE STRUNG CONTINUOUSLY THROUGH THE DETECTION SYSTEM CONDUIT AND BRACKETS FIRST. THEN THE DETECTOR LINKAGE ASSEMBLIES ARE CLIPPED ON LATER.

*A-PC/SL STYLE FUSIBLE LINK TO BE PROVIDED BY INSTALLER (TEMP RATING TO BE VERIFIED AND DETERMINED IN FIELD)

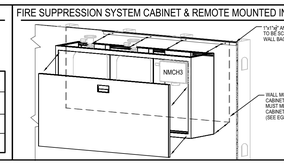
CYLINDER DETAILS



*CYLINDERS COME PRE-FILLED WITH EXTINGUISHING AGENT AND ARE CHARGED WITH DRY NITROGEN TO A PRESSURE OF 225 PSIG @ 70° F (15.5 BAR @ 21° C).

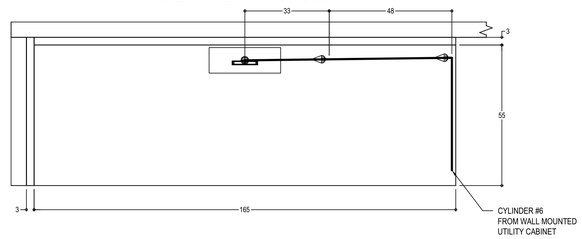
MODEL NO.	A	B	C	WEIGHT
PLC-160 (PART #551163)	8.00 IN	17.75 IN	15.44 IN	34 LBS.
PLC-300 (PART #551194)	8.00 IN	25.06 IN	22.75 IN	53 LBS.
PLC-460 (PART #551193)	10.00 IN	25.06 IN	22.75 IN	83 LBS.

FIRE SUPPRESSION SYSTEM CABINET & REMOTE MOUNTED INSTALLATION

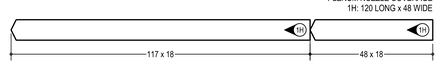


- 36" MINIMUM CLEARANCE REQUIRED IN FRONT OF THE REMOVABLE CABINET DOOR.
- SUPPORT BACKING REQUIRED IF CABINET MOUNTS TO WALL
- CABINET AND FIRE SUPPRESSION SYSTEM COMPONENTS APPROXIMATELY 100 LBS/FT. SEE PATH OF EGRESS DRAWING FOR CABINET DIMENSIONS).

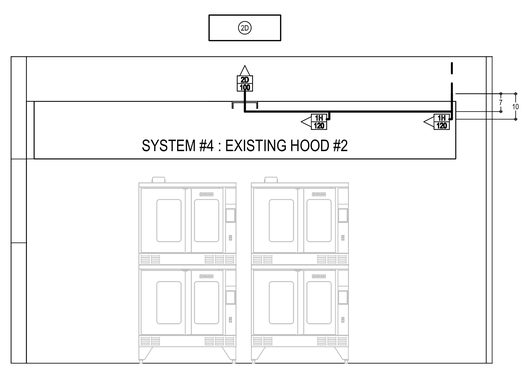
SYSTEM #4 : EXISTING HOOD #2

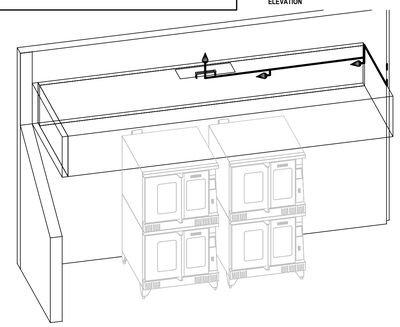


PLENUM NOZZLE COVERAGE
1H: 120 LONG x 48 WIDE



DUCT NOZZLE COVERAGE
2D: 100" PERIMETER

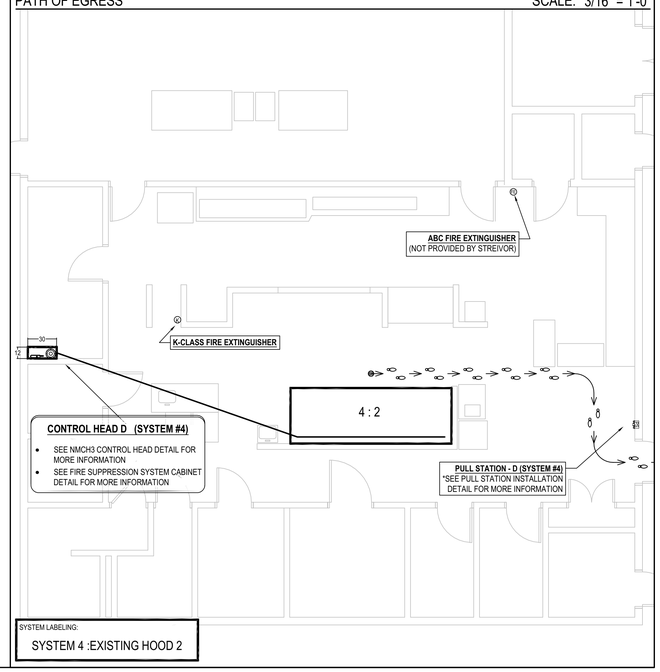




NOTE: ALL FIRE SUPPRESSION SYSTEM PIPING TO BE FIELD INSTALLED BY A STREIVOR APPOINTED LICENSED FIRE SUPPRESSION SYSTEM INSTALLER

PATH OF EGRESS

SCALE: 3/16" = 1'-0"



INSTALLER:

GENERAL NOTES:

NOTES TO ARCHITECT AND/OR CONTRACTOR: STREIVOR, INC. (STREIVOR AIR SYSTEMS, STREIVOR STAINLESS) IS A SPECIALIST IN THE LAYOUT AND DESIGN OF KITCHEN VENTILATION SYSTEMS, AND IS NO WAY PURPORTS TO BE ARCHITECTS OR ENGINEERS.

THIS PLAN IS SUBMITTED FOR THE CONVENIENCE OF THE ARCHITECT AND/OR CONTRACTOR AND IS DONE FROM AVAILABLE ARCHITECTURAL INFORMATION. ALL MEASUREMENTS ARE SUBJECT TO PHYSICAL VERIFICATION AND ANY DEVIATIONS OR DISCREPANCIES SHALL BE DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN WRITING.

STREIVOR, INC. ACCEPTS NO RESPONSIBILITY FOR WORK DONE BY SAID ARCHITECT OR GENERAL CONTRACTOR OR THEIR REPRESENTATIVES OR SUBCONTRACTORS, AND WILL NOT STAND ANY EXPENSE FOR CHANGES MADE NECESSARY DUE TO LOCAL BUILDING CODES, ORDINANCES, STRUCTURAL CONDITIONS, OR BY ANY SUBSTITUTIONS OR CHANGES IN EQUIPMENT SHOWN ON THIS PLAN.

ANY ERRORS, AMBIGUITIES OR OMISSIONS IN THIS PLAN OR SPECIFICATIONS SHALL BE REPORTED TO STREIVOR, INC. FOR CORRECTIONS BEFORE ANY OF THE WORK IS STARTED. UNLESS EXPRESSLY STIPULATED, NO ADDITIONAL ALLOWANCE WILL BE MADE IN FAVOR OF THE OWNER OR CONTRACTOR BY VIRTUE OF ERROR, AMBIGUITY OR OMISSION WHICH MAY HAVE BEEN CORRECTED AFTER THE WORK HAS BEGUN. ALL ESTIMATES AND DIRECTED TO THE ATTENTION OF STREIVOR, INC IN A TIMELY MANNER.

STREIVOR™ AIR SYSTEMS

"STRIVING FOR EXCELLENCE"

2150 KITTY HAWK ROAD, LIVERMORE, CA 94551
PHONE: (925) 960-9090 FAX:(925) 960-9055
WWW.STREIVOR.COM

CUSTOMER APPROVAL

COOKING EQUIPMENT VERIFICATION

VERIFY THE FOLLOWING:

HIGH BACK SHELVES	YES ☐	NO ☐
RANGE COOKING SURFACE DEPTH GREATER THAN 28"	YES ☐	NO ☐
PULL STATION LOCATION(S)	YES ☐	NO ☐
UTILITY CABINET LOCATION(S)	YES ☐	NO ☐
AGENT DISTRIBUTION HOSE AND RESTRAINING CABLE KIT	YES ☐	NO ☐
CEILING HEIGHT	___'- ___"	

APPROVED BY DATE

NOTE TO REVIEWER:
NO CHANGES TO COOKING EQUIPMENT SUCH AS EQUIPMENT POSITION, TYPE AND/OR INCREASE IN ENERGY OUTPUT MAY EFFECT EXHAUST AIRFLOW. STREIVOR AIR SYSTEMS MUST BE NOTIFIED OF ANY CHANGES THAT OCCUR PRIOR TO FABRICATION, A RE-ENGINEERING OF THE EXHAUST AIRFLOW MAY BE REQUIRED. ADDITIONAL SITE VISIT FOR FIRE SUPPRESSION PRE-TEST IS NOT INCLUDED UNLESS SPECIFICALLY LISTED IN QUOTE.

PROJECT:

CDCR PELICAN BAY

5905 LAKE EARL DRIVE
CRESCENT CITY, CA 95531

THE MARSHALL ASSOCIATES

ITEM #:	34
SYSTEM #:	4
HOOD #:	33
DATE:	04/11/2023
DRAWN BY:	KCS
CHECKED BY:	SWB
CONSULTANT:	THE MARSHALL ASSOCIATES
SCALE: (UNLESS OTHERWISE NOTED)	1/2" = 1' - 0"

IF BAR DOES NOT MEASURE 1" THE DRAWING IS NOT PLOTTED TO SCALE

	DESCRIPTION	DATE	INT
1	PLAN CHECK COMMENTS	03/19/24	KCS
2	---	-/-/--	---
3	---	-/-/--	---
4	---	-/-/--	---
5	---	-/-/--	---

DRAWING:

F-05

SHEET 05 OF 11

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CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

The Marshall Associates, Inc.
Foodservice & Laundry Consultants/Designers
3000 Danville Blvd Suite F–344 Alamo, CA 94507
2129 4th Street Santa Rosa, CA 95404
415/677–1200 Fax 415/677–1210

STATE OF CALIFORNIA
DEPARTMENT OF CORRECTIONS AND REHABILITATION

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
11/04/24
23-5898
Approval of this plan does not authorize or approve any omission or deviation from applicable requirements. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

REV.	DATE:	DESCRIPTION

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS
Project No.: 5882.00

HIBSER YAMAUCHI Architects, Inc.
4602 2nd Street, Suite #3
Davis, CA 95618
530.758.1270 office
530.758.4789 fax

LICENSED ARCHITECT KEN YAMAUCHI C-26566 02-28-2025 RENEWAL DATE STATE OF CALIFORNIA

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

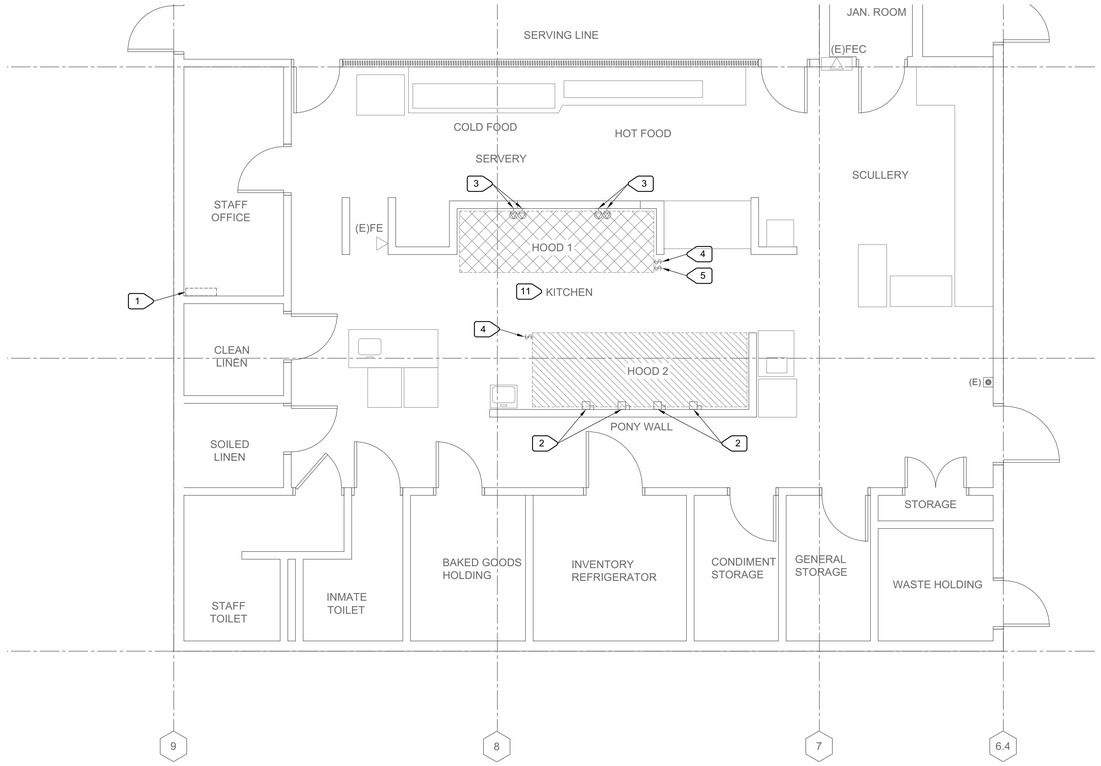
SHEET TITLE: BUILDING C05 ADMIN BUILDING
FIRE SUPPRESSION MFR PLAN

CDCR FORM NOs.: 20-104

SHEET NUMBER

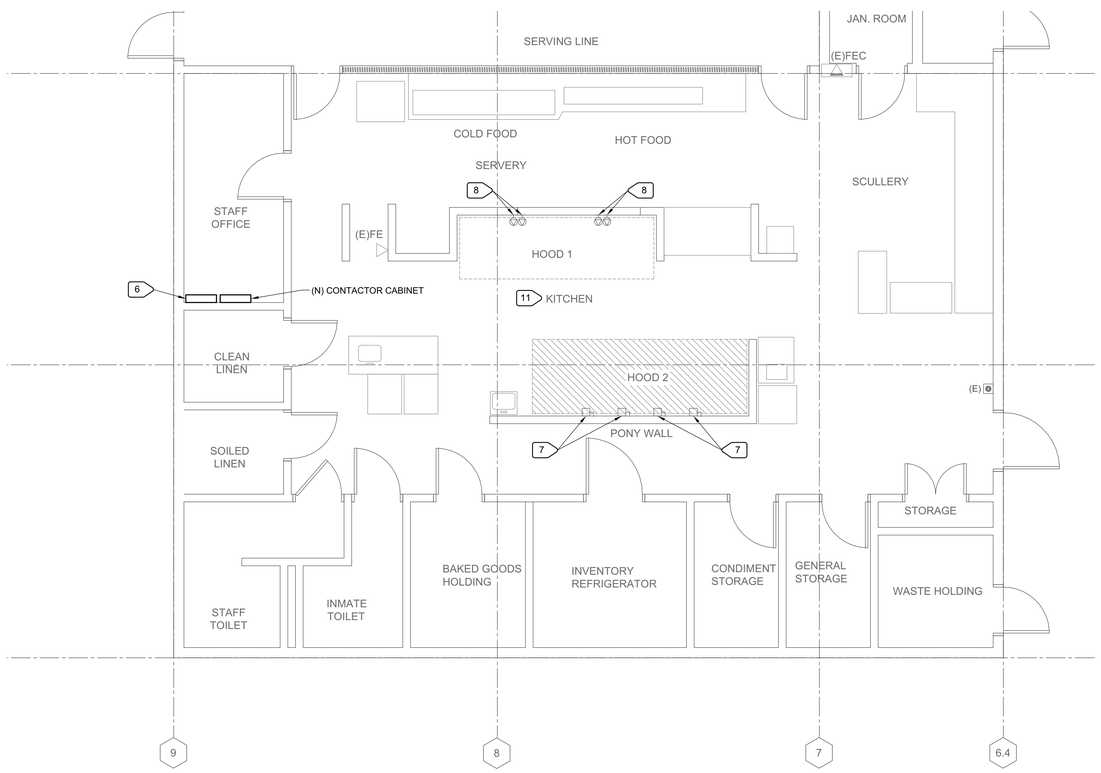
FS-E1.3

V3



1 E-E1.1 BUILDING C05 - LEVEL 1 KITCHEN - ENLARGED PLAN - DEMOLITION - ELECTRICAL

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

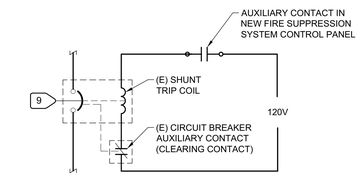


2 E-E1.1 BUILDING C05 - LEVEL 1 KITCHEN - ENLARGED PLAN - REMODEL- ELECTRICAL

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

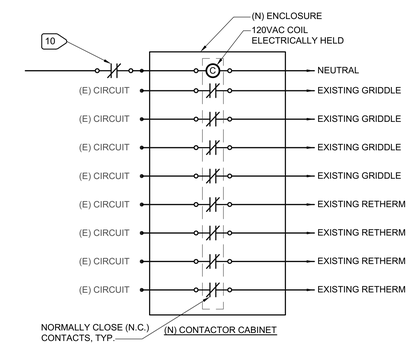
NUMBERED NOTES

1. EXISTING FIRE SUPPRESSION SYSTEM CONTROL PANEL TO BE REMOVED. DISCONNECT EXISTING 120V POWER CIRCUIT AND FIRE ALARM MONITORING CIRCUIT AND PROTECT FOR CONNECTION TO NEW PANEL.
2. EXISTING DISCONNECT SWITCH FOR RETHERM TO REMAIN.
3. EXISTING GRIDDLE POWER RECEPTACLE TO REMAIN.
4. EXISTING HOOD FAN SWITCH TO REMAIN.
5. EXISTING HOOD LIGHT SWITCH TO REMAIN.
6. NEW FIRE SUPPRESSION SYSTEM CONTROL PANEL. RECONNECT TO EXISTING 120V POWER CIRCUIT AND FIRE ALARM MONITORING CIRCUIT. SEE DETAIL "1/E-0.1" ON SHEET E-0.1".
7. LOCATE EXISTING SHUNT TRIP CONTROL CIRCUIT. CONNECT EXISTING SHUNT TRIP CONTROL CIRCUIT TO AUXILIARY CONTAC IN NEW FIRE SUPPRESSION SYSTEM CONTROL PANEL. AUXILIARY CONTACT SHALL ACTIVATE THE SHUNT TRIP AT THE CIRCUIT BREAKER TO DE-ENERGIZE EQUIPMENT UNDER THE HOOD WHEN FIRE SUPPRESSION SYSTEM IS ACTIVATED. SEE DETAIL "3/E-E1.1".
8. LOCATE AND INTERCEPT EXISTING EQUIPMENT POWER CIRCUIT AND RE-ROUTE THROUGH NEW CONTACTOR. SEE DETAIL "4/E-E1.1".
9. EXISTING CIRCUIT BREAKER WITH AUXILIARY CONTACT (CLEARING CONTACT), WIRED IN SERIES WITH SHUNT TRIP COIL. WHEN CONTACT CLOSES, CIRCUIT BREAKER WILL TRIP, WHICH WILL OPEN THE AUXILIARY CONTACT, CLEARING THE VOLTAGE TO PREVENT THE SHUNT TRIP COIL FROM BURNING-UP.
10. WHEN THE NORMALLY CLOSED (N.C.) AUXILIARY CONTACT IN FIRE SUPPRESSION SYSTEM CONTROL PANEL IS OPEN, THE ELECTRICALLY HELD CONTROL COIL IS DE-ENERGIZED AND THE N.C. CONTACTORS ARE OPENED, DE-ENERGIZING THE EQUIPMENT UNDER THE HOOD.
11. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND RATING OF FIRE RATED WALLS.



3 E-E1.1 SHUNT-TRIP WIRING DIAGRAM

NO SCALE



4 E-E1.1 CONTACTOR CABINET DIAGRAM

NO SCALE

CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

REGISTERED PROFESSIONAL ENGINEER
JESSE U. BAPTISTA
No. E20229
Exp. 03-31-25
ELECTRICAL
STATE OF CALIFORNIA

10/15/2024

M. NEILS ENGINEERING, INC.
Electrical Engineers | Lighting Designers
100 Howe Ave., Suite 235N
Sacramento, CA 95825-8217
www.mneilsengineering.com
Tel: (916) 923-4400
PROJECT #: 22238.21
PROJECT MANAGER: Stuart Lindsay

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23-8898
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REV.	DATE:	DESCRIPTION

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS
Project No: 5892.00

HIBSER YAMAUCHI Architects, Inc.
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PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

SHEET TITLE: BUILDING C05 - LEVEL 1 KITCHEN - ENLARGED PLANS - DEMOLITION AND REMODEL - ELECTRICAL

CDCR Job No.: 20-034

SHEET NUMBER
E-E1.1

V3

UNAUTHORIZED CHANGES & USES: M. Neils Engineering, Inc. preparing these plans will not be responsible for, or liable for unauthorized changes to or uses to these plans. All changes to these plans must be in writing and must be approved by M. Neils Engineering, Inc.

Oct 15, 2024 – 2:30pm, / kerlo

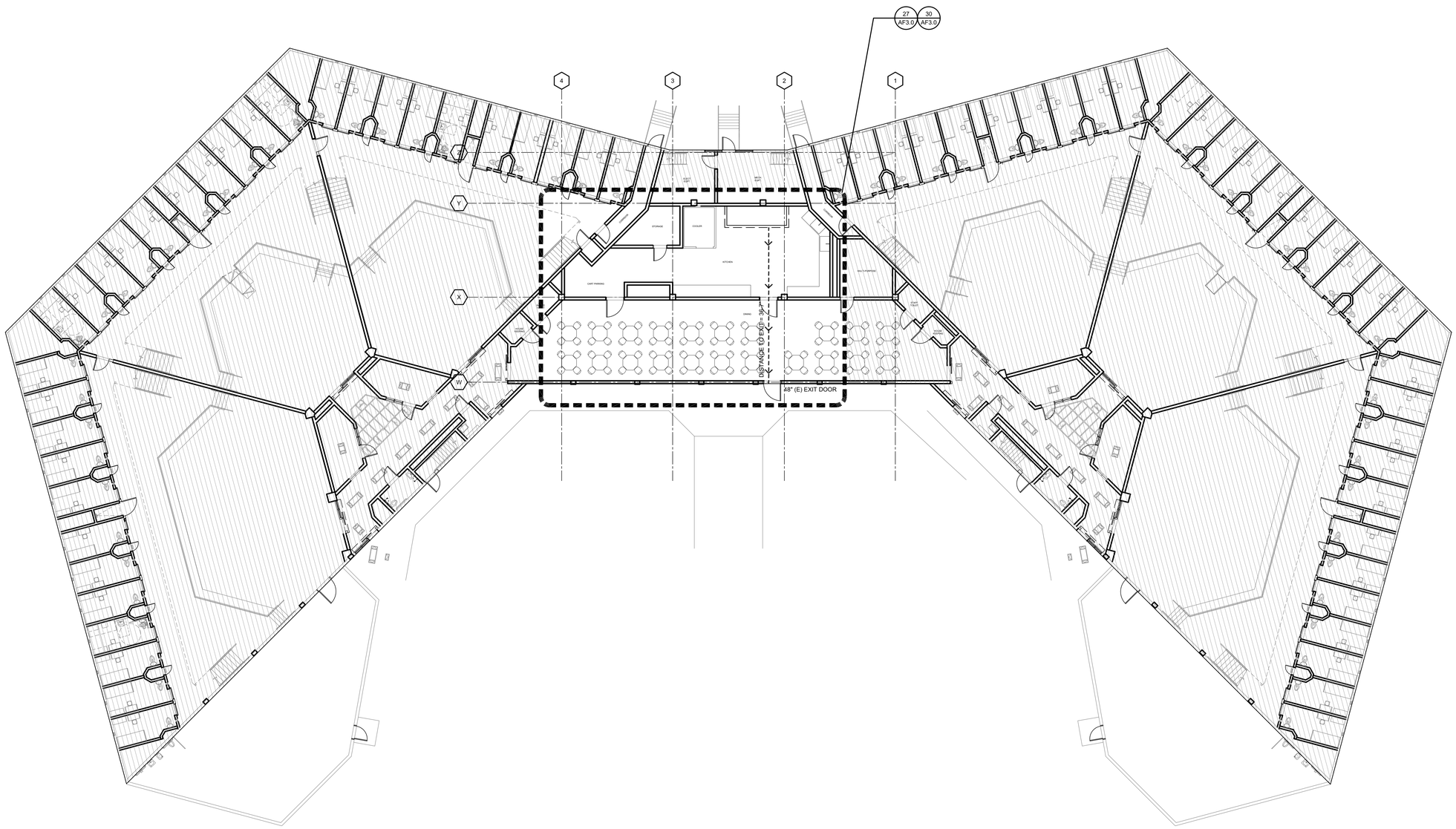
GENERAL NOTES

1. DESIGN, FURNISH, INSTALL AND TEST NEW FIRE SYSTEM.
2. FIELD VERIFY ALL EXISTING CONDITIONS AS NECESSARY FOR THE WORK. DRAWINGS WERE PRODUCED FROM FIELD NOTES.
3. NEW SUPPRESSION MANUAL PULL STATION TO BE WITHIN THE KITCHEN ROOM, BETWEEN 10FT TO 20FT FROM THE HOOD AND IN ROUTE THE EXIT DOOR.
4. NEW (K) CLASS FIRE EXTINGUISHER TO BE WITHIN 30FT FROM THE HOOD. IF NEEDED PROVIDE A SECOND EXTINGUISHER AS SHOWN IN DRAWINGS.
5. AFTER CONSTRUCTION IS COMPLETE, REPAIR ADJACENT SURFACES TO MATCH EXISTING IN PRE-CONSTRUCTION CONDITION. SEE DRAWINGS TO ENSURE PROPER FIRE RATING IS MAINTAINED.
6. NEW PULL STATIONS TO BE INSTALLED WITH OPERABLE PARTS NOT HIGHER THAN 48" AFF. PROVIDE ACCESSIBLE CLEARANCE IN FRONT OF THE PULL STATION.
7. NEW FIRE EXTINGUISHERS TO BE MOUNTED IN A CABINET WITH TOP SET AT 48" MAX. AFF. FOR RECESSED CABINET INSTALL SO IT DOES NOT PROTRUDE MORE THAN 4" OUT OF THE WALL, UON.
8. THE REMOVAL OF CONDUIT OR PIPING SHALL BE SEALED WITH LISTED OR EQUIVALENT LIQUID TIGHT SEALING DEVICES. (NFPA 96 SECTION: 10.2.7.2)
9. FOR STRUCTURAL ANCHORAGE FOR KITCHEN EQUIPMENT SEE SHEET S9.0 AND S9.1

LEGEND

AREA NOT IN SCOPE

PATH OF TRAVEL TO EXIT



30 BUILDING H02 - A2 KITCHEN - OVERALL PLAN

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

CDCR ACCESS COMPLIANCE

1334 1/8/2025
CASp-491

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23-5898

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REV.	DATE:	DESCRIPTION

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS
Project No: 5892.00

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530.758.4789 fax

LICENSED ARCHITECT
KEN YAMAUCHI
C-26566
02-28-2025
RENEWAL DATE
STATE OF CALIFORNIA

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

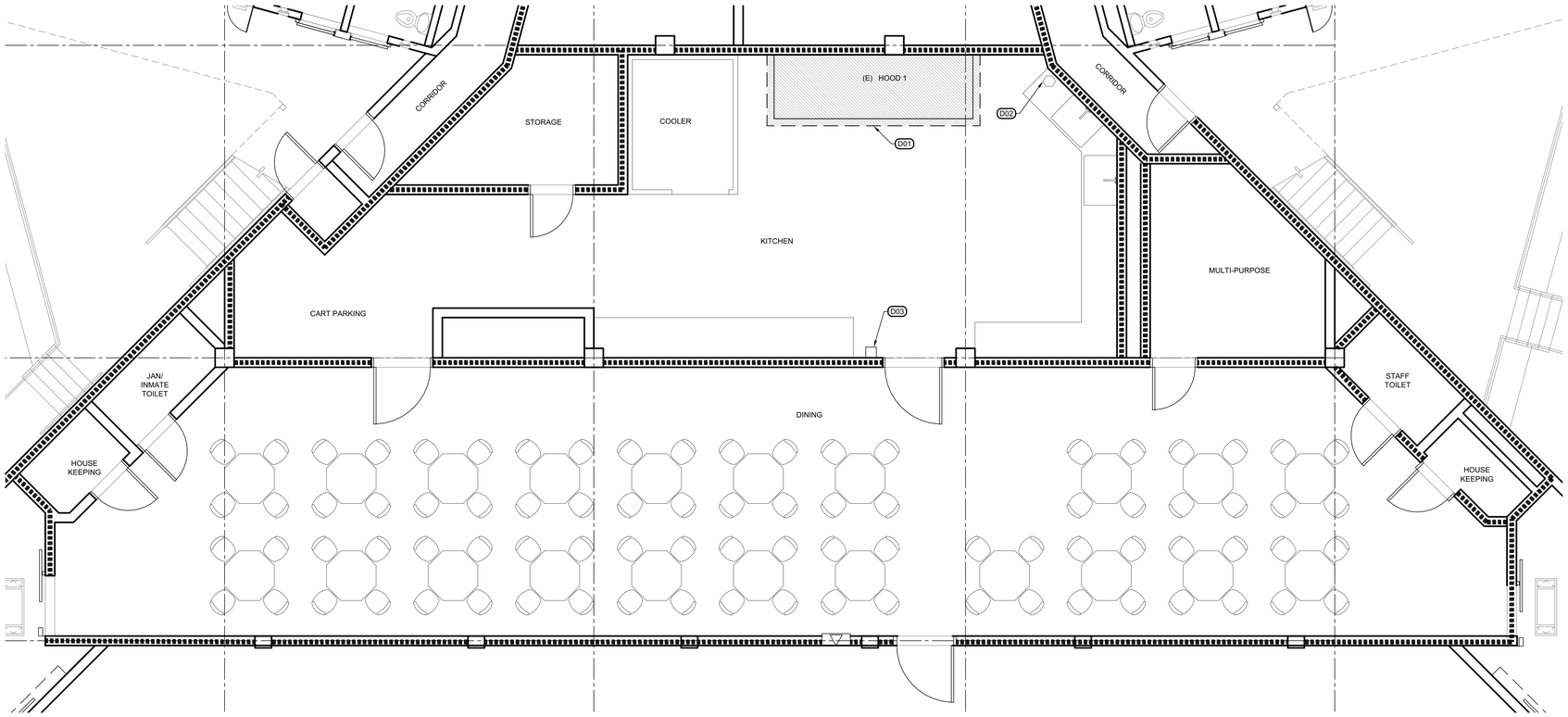
SHEET TITLE: BUILDING H02 - A2 KITCHEN - OVERALL PLAN

CDCR APPR. No.: 20-034

SHEET NUMBER
AF2.0

V3

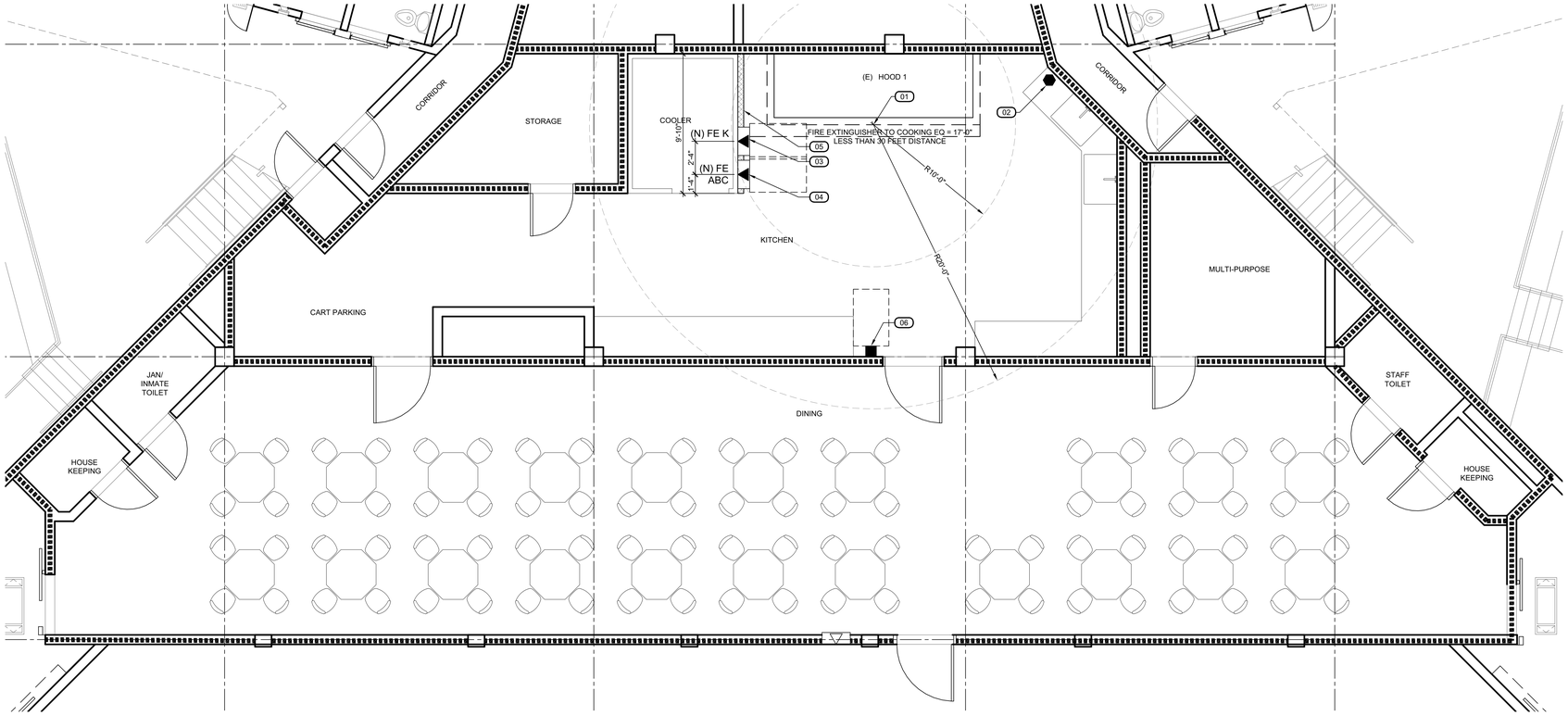
9/27/2023 5:52 PM



27 BUILDING H02 - A2 KITCHEN ENLARGED PLAN - DEMOLITION

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

GRAPHIC SCALE: 0 1' 2' 4' 8' 12' 1/4" = 1'-0"



30 BUILDING H02 - A2 KITCHEN - ENLARGED PLAN - REMODEL

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

GRAPHIC SCALE: 0 1' 2' 4' 8' 12' 1/4" = 1'-0"

GENERAL NOTES

1. DESIGN, FURNISH, INSTALL AND TEST NEW FIRE SYSTEM.
2. FIELD VERIFY ALL EXISTING CONDITIONS AS NECESSARY FOR THE WORK. DRAWINGS WERE PRODUCED FROM FIELD NOTES.
3. NEW SUPPRESSION MANUAL PULL STATION TO BE WITHIN THE KITCHEN ROOM, BETWEEN 10FT TO 20FT FROM THE HOOD AND IN ROUTE THE EXIT DOOR.
4. NEW (K) CLASS FIRE EXTINGUISHER TO BE WITHIN 30FT FROM THE HOOD. IF NEEDED PROVIDE A SECOND EXTINGUISHER AS SHOWN IN DRAWINGS.
5. AFTER CONSTRUCTION IS COMPLETE, REPAIR ADJACENT SURFACES TO MATCH EXISTING IN PRE-CONSTRUCTION CONDITION. SEE DRAWINGS TO ENSURE PROPER FIRE RATING IS MAINTAINED.
6. NEW PULL STATIONS TO BE INSTALLED WITH OPERABLE PARTS NOT HIGHER THAN 48" AFF. PROVIDE ACCESSIBLE CLEARANCE IN FRONT OF THE PULL STATION.
7. NEW FIRE EXTINGUISHERS TO BE MOUNTED IN A CABINET WITH TOP SET AT 48" MAX. AFF. FOR RECESSED CABINET INSTALL SO IT DOES NOT PROTRUDE MORE THAN 4" OUT OF THE WALL, UON.
8. THE REMOVAL OF CONDUIT OR PIPING SHALL BE SEALED WITH LISTED OR EQUIVALENT LIQUID TIGHT SEALING DEVICES. (NFPA 96 SECTION: 10.2.7.2)
9. FOR STRUCTURAL ANCHORAGE FOR KITCHEN EQUIPMENT SEE SHEET S9.0 AND S9.1

WALL LEGEND

(N) FURRING WALL. SEE DETAIL 12/A9.0

(E) CMU WALL

DEMOLITION LEGEND

EXISTING KITCHEN HOOD TO REMAIN. ANSUL SYSTEM TO BE REPLACED. SEE FS DRAWINGS FOR DETAILS AND EQUIPMENT LAYOUT.

FSS — (E) FIRE SUPPRESSION SYSTEM CONTROL BOX

FEC — (E) FIRE EXTINGUISHING CABINET WITH FIRE HOSE AND FIRE EXTINGUISHER INSIDE.

PS — (E) PULL STATION LOCATION AND SIGN INDICATING ANSUL SYSTEM NUMBER. SEE GENERAL NOTES AND FS DRAWINGS.

FE (ABC) — (E) ABC-CLASS PORTABLE FIRE EXTINGUISHER

REMODEL LEGEND

FSS — (N) FIRE SUPPRESSION SYSTEM CONTROL BOX

DISTANCE (30 FEET MAXIMUM UNOBSTRUCTED FROM COOKING EQUIPMENT TO FIRE EXTINGUISHER.

FE (ABC) — (N) ABC-CLASS PORTABLE FIRE EXTINGUISHER

FE (K) — (N) K-CLASS PORTABLE FIRE EXTINGUISHER

DEMOLITION KEYNOTES

D01 (E) KITCHEN HOOD TO REMAIN. ANSUL SYSTEM TO BE REPLACED. SEE FS DRAWINGS .

D02 (E) FIRE SUPPRESSION SYSTEM CONTROL BOX TO BE REPLACED. SEE FS DRAWING.

D03 REMOVE (E) PULL STATION. PATCH, REPAIR AND PAINT ADJACENT SURROUNDINGS TO MATCH (E) CONDITIONS.

REMODEL KEYNOTES

01 ANSUL SYSTEM TO BE REPLACED. SEE FS DRAWINGS FOR DETAILS AND EQUIPMENT LOCATIONS.

02 (N) FIRE SUPPRESSION SYSTEM CONTROL BOX. SEE FS DRAWINGS.

03 (N) RECESSED FIRE EXTINGUISHER CABINET EQUIPPED W/K CLASS FIRE EXTINGUISHER. SEE DETAIL 1/A9.0 & FS DRAWINGS FOR SIZING

04 (N) RECESSED FIRE EXTINGUISHER CABINET EQUIPPED W/ ABC CLASS FIRE EXTINGUISHER, SIZE 2A. SEE DETAIL 1/A9.0

05 (N) FURRING WALL, SEE DETAIL 12/A9.0

06 (N) PULL STATION. SEE FS DRAWINGS. ENSURE MIN. 15" CLEARANCE BETWEEN CENTER OF PULL STATION AND COUNTER FOR ADA ACCESS

CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION

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11/04/24
23-5898
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STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS
Project No: 5892.00

HIBSER YAMAUCHI Architects, Inc.
4602 2nd Street, Suite #3
Davis, CA 95616 office
530.758.4789 fax

LICENSED ARCHITECT
KEN YAMAUCHI
C-26566
02-28-2025
RENEWAL DATE
STATE OF CALIFORNIA

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

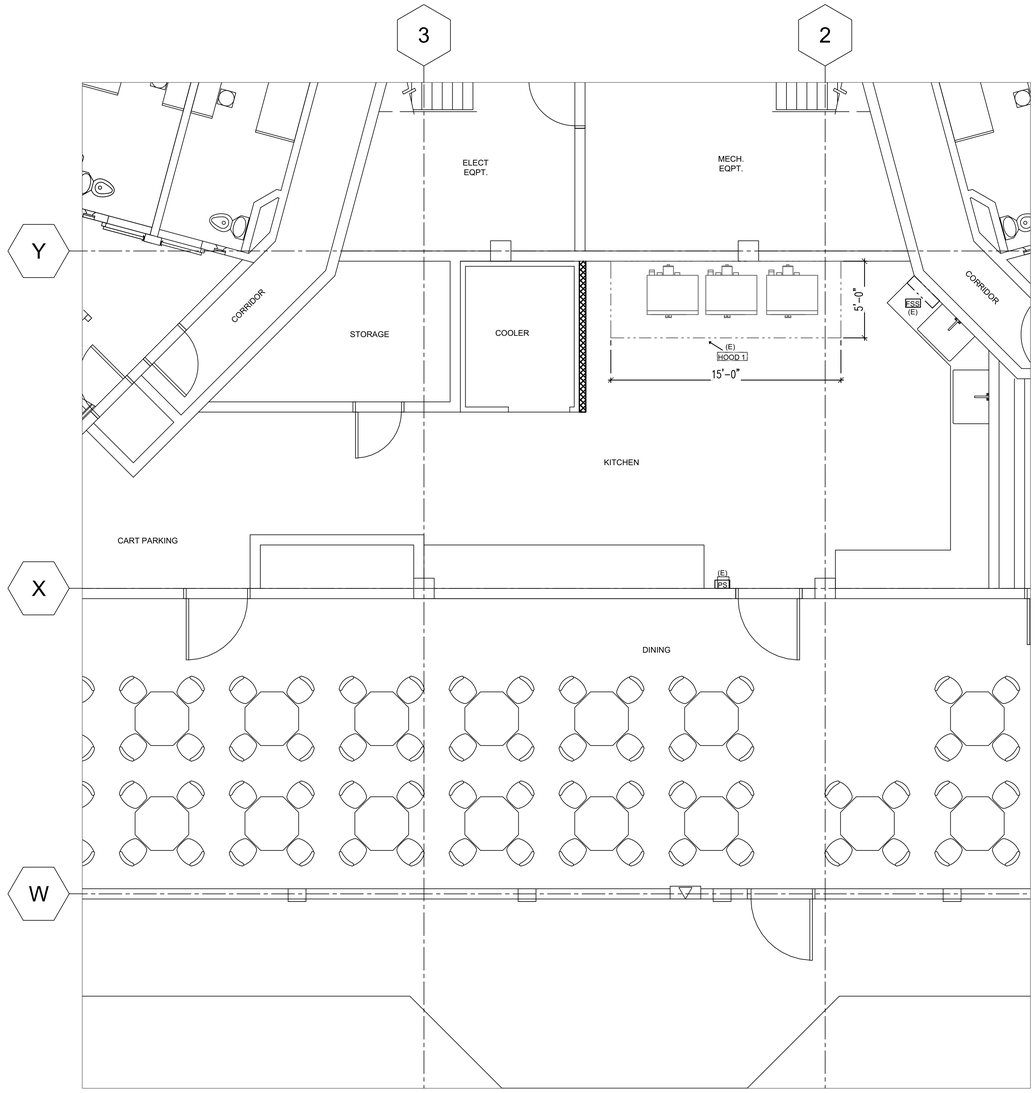
SHEET TITLE: BUILDING H02, A2 KITCHEN
ENLARGED PLANS - DEMOLITION AND REMODEL

CDCR Job No.: 20-034

SHEET NUMBER
AF3.0

V3

2/14/2024 12:13 PM



30 BLDG H02 A2 HOUSING UNIT - FIRE SUPPRESSION DEMO PLAN

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

GENERAL NOTES:

A. ALL EQUIPMENT TO HAVE NSF, ETL SANITATION OR UL SANITATION APPROVALS.

B. INSTALLATION TO MEET CALIFORNIA RETAIL FOOD CODE (CRFC) LATEST EDITION.

FIRE SUPPRESSION CONTRACTOR TO:

A. REMOVE EXISTING FIRE SUPPRESSION SYSTEM AND ALL COMPONENTS.

B. REFER TO ARCHITECTURAL DRAWING SHEET NOTES FOR NOTES AND GUIDELINES REGARDING EXISTING CONDITION GUIDELINES

SYMBOLS

(E) FSS EXISTING FIRE SUPPRESSION SYSTEM; TO BE REMOVED

(E) PS EXISTING FIRE PROTECTION PULL BOX; TO BE REMOVED

CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

The Marshall Associates, Inc.
Foodservice & Laundry Consultants/Designers
3000 Danville Blvd Suite F-344 Alamo, CA 94507
2129 4th Street Santa Rosa, CA 95404
415/677-1200 Fax 415/677-1210

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION

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11/04/24
23-5898
Approval of this plan does not authorize or approve any omission or deviation from applicable requirements. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

REV.	DATE:	DESCRIPTION

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS
Project No.: 5892.00

HIBSER YAMAUCHI Architects, Inc.
4602 2nd Street, Suite #3
Davis, CA 95618
530.758.2720 office
530.758.4789 fax

LICENSED ARCHITECT
KEN YAMAUCHI
C-26566
02-28-2025
RENEWAL DATE
STATE OF CALIFORNIA

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

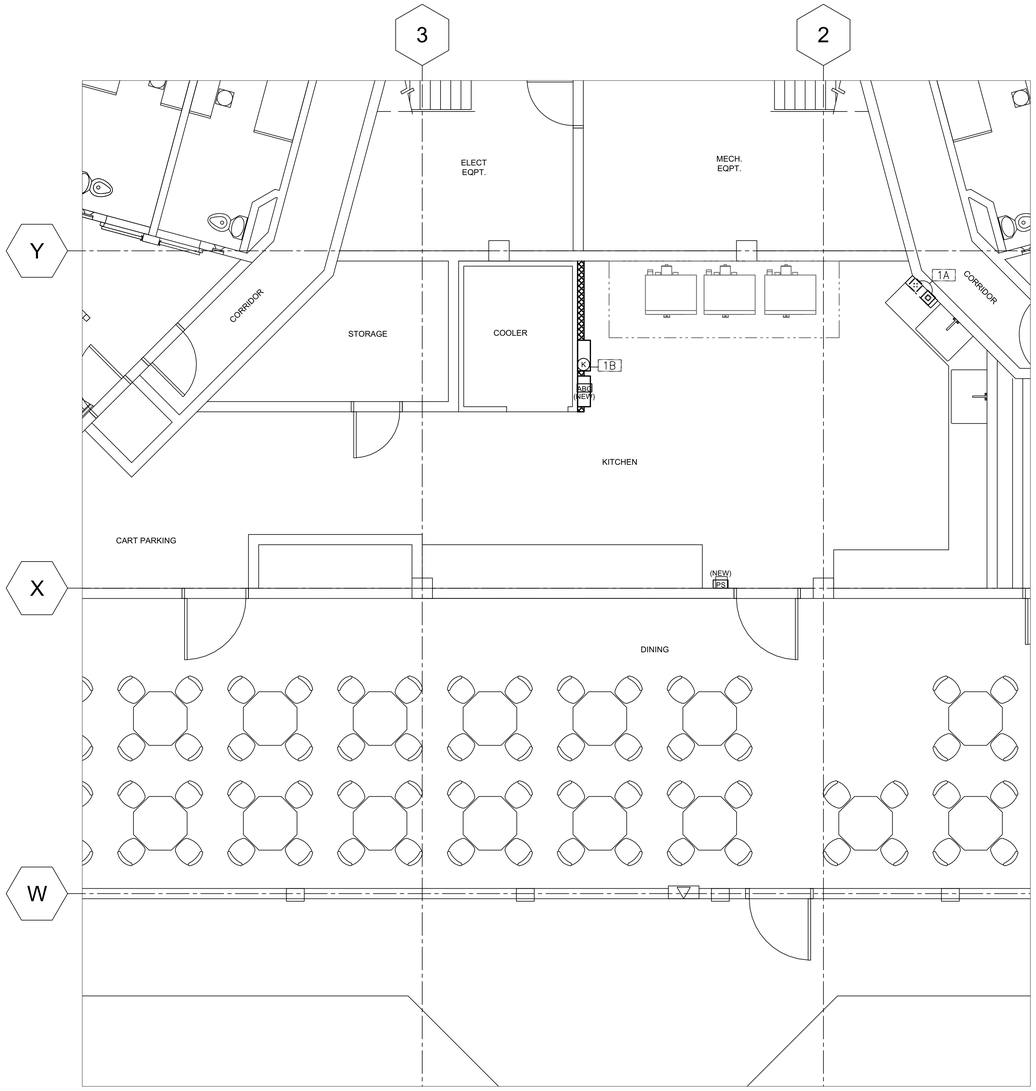
DATE: JULY 19, 2024

SHEET TITLE: BUILDING H02 - A2 KITCHEN
FIRE SUPPRESSION DEMO PLAN

CDCR 20-034
Job Nos.:

SHEET NUMBER
FS-F1.1

V3



EQUIPMENT SCHEDULE

ITEM	QTY	DESCRIPTION	MANUFACTURER	MODEL NUMBER	NOTES
1	1	EXHAUST HOOD (TYPE-I)	EXISTING; IN PLACE	NOT PART OF FSEC CONTRACT	NIC
1A	1	FIRE PROTECTION SYSTEM	STREVOR AIR SYSTEMS	PYRO-CHEM KITCHEN KNIGHT II	
1B	1	CLASS K FIRE EXTINGUISHER	BUCKEYE	WC-6L	
A	3	ELECTRIC CONVECTION OVEN	VULCAN (EXISTING)	ER-10 (EXISTING)	NIC
B	1	14 GA S/S WALL FLASHING	EXISTING	NOT PART OF FSEC CONTRACT	NIC

ABBREVIATIONS:

FSEC	FOODSERVICE EQUIPMENT CONTRACTOR
S/S	STAINLESS STEEL
NIC	NOT IN CONTRACT
CKT	CIRCUIT

ELECTRICAL ROUGH-IN

ITEM	QTY	DESCRIPTION	CONNECTED LOAD 120/1	120/208/1	120/208/3	208/1	208/3	480/3	HT	CONNECTION TYPE C&P	RECP	HW
1	1	EXHAUST HOOD (TYPE-I)										
1A	1	FIRE PROTECTION SYSTEM	20A CKT						FA			*
1B	1	CLASS K FIRE EXTINGUISHER										

ABBREVIATIONS:

C&P	CORD AND PLUG	CKT	CIRCUIT
RECP	RECEPTACLE	E	EXISTING
HW	HARDWIRE		
HT	HEIGHT		
FA	FROM ABOVE		

SCHEDULE / DRAWING NOTES:

CONNECTED LOAD = EACH CONNECTION SHOWN ON DRAWING

CONNECTION TYPES PROVIDED BY ELECTRICAL DIVISION

SHEET NOTES

FIRE SUPPRESSION CONTRACTOR TO PROVIDE:

A. WORK AS DESCRIBED IN CONTRACT DOCUMENTS AND SUPPLEMENTAL REQUIREMENTS PER FIRE SUPPRESSION EQUIPMENT SECTION.

B. ROUGH-IN AND FINAL CONNECTION TO ALL FIRE SUPPRESSION EQUIPMENT AS INDICATED ON DRAWINGS AND IN ELECTRICAL ROUGH-IN SCHEDULE.

C. ALL JUNCTION-BOXES, ELECTRICAL OUTLETS, COVER PLATES, SWITCHES NOT BUILT INTO FIXTURES OR EQUIPMENT.

D. SHUNT TRIP CIRCUIT BREAKERS FOR ALL FOODSERVICE EQUIPMENT BELOW EXHAUST HOODS.

E. INCLUDE DORMONT POSI-SET CASTER PLACEMENT SAFETY SYSTEM FOR ALL EXISTING MOBILE COOKING EQUIPMENT BELOW EXISTING HOODS AFTER NEW FIRE SUPPRESSION SYSTEM HAS BEEN INSTALLED. SEE S9.1 FOR DETAIL

F. ALL OTHER EXISTING EQUIPMENT TO BE ANCHORED PER REQUIREMENTS SHOWN ON S9.1

INTERCONNECTION BETWEEN:

A. FIRE PROTECTION SYSTEM AND BUILDING LIFE SAFETY.

SYMBOLS

PS — NEW FIRE PROTECTION PULL BOX – OCTAGONAL BOX 48" AFF WITH CONDUIT TO CEILING – PYRO CHEM KITCHEN KNIGHT II MODEL RPS-M

ABC — NEW ABC FIRE EXTINGUISHER SEE SHEET AA3.0 FOR MAKE/MODEL

K — NEW TYPE K FIRE EXTINGUISHER BUCKEYE; MODEL WC-6L

JUNCTION BOX ROUGH-IN

JUNCTION BOX CONNECTION PROVIDED IN EQUIPMENT

30 BLDG H02 A2 HOUSING UNIT - FIRE SUPPRESSION NEW EQUIPMENT PLAN

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

CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

The Marshall Associates, Inc.
Foodservice & Laundry Consultants/Designers
3000 Danville Blvd Suite F-344 Alamo, CA 94507
2129 4th Street Santa Rosa, CA 95404
415/677-1200 Fax 415/677-1210

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
11/04/24
23-8898
Approval of this plan does not authorize or approve any omission or deviation from applicable requirements. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

REV.	DATE:	DESCRIPTION

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FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
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FIRE SUPPRESSION NEW EQUIPMENT PLAN

CDCR 20-034
Job Nos.:

SHEET NUMBER
FS-F1.2

V3

LISTINGS & STANDARDS

THIS WET CHEMICAL EXTINGUISHING SYSTEM IS ENGINEERED TO PROVIDE FIRE PROTECTION FOR RESTAURANT HOODS, DUCTS AND COOKING APPLIANCES, IS **UL 300** LISTED AND IS TO BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS:

- NFPA 17A 2021 EDITION
- NFPA 10 2018 EDITION
- NFPA 96 2021 EDITION

SECTIONS & CODES

NFPA 10 2018 EDITION

(5.6.2) MAXIMUM TRAVEL DISTANCE SHALL NOT EXCEED 30 FT (9.1 M) FROM THE HAZARD TO THE EXTINGUISHER(S)

NFPA 17A 2021 EDITION

(5.2.1.10.1) EACH MANUAL ACTUATION DEVICE SHALL BE INSTALLED NO MORE THAN 48 IN. (1200 MM) AND NO LESS THAN 42 IN. (1067 MM) ABOVE THE FLOOR.

NFPA 96 2021 EDITION

(8.2.3.1) A HOOD EXHAUST FAN(S) SHALL CONTINUE TO OPERATE AFTER THE EXTINGUISHING SYSTEM HAS BEEN ACTIVATED UNLESS FAN SHUTDOWN IS REQUIRED BY A LISTED COMPONENT OF THE VENTILATION SYSTEM OR BY THE DESIGN OF THE EXTINGUISHING SYSTEM.

(8.2.3.2) THE HOOD EXHAUST FAN SHALL START UPON ACTIVATION OF THE EXTINGUISHING SYSTEM IF THE EXHAUST FAN AND ALL COOKING EQUIPMENT SERVED BY THE FAN HAVE BEEN SHUT DOWN, UNLESS FAN SHUTDOWN IS REQUIRED BY A LISTED COMPONENT OF THE VENTILATION SYSTEM OR BY THE LISTING OF THE EXTINGUISHING SYSTEM.

(8.3.2) WHEN THE FIRE-EXTINGUISHING SYSTEM ACTIVATES, MAKEUP AIR SUPPLIED INTERNALLY TO A HOOD SHALL BE SHUT OFF.

(10.4.1) UPON ACTIVATION OF ANY FIRE EXTINGUISHING SYSTEM FOR A COOKING OPERATION, ALL ~~SOURCES OF FUEL~~ AND ELECTRICAL POWER THAT PRODUCE HEAT TO ALL EQUIPMENT REQUIRING PROTECTION BY THAT SYSTEM SHALL AUTOMATICALLY SHUT OFF.

(10.4.3) ~~GAS APPLIANCE NOT REQUIRING PROTECTION BUT LOCATED UNDER VENTILATING EQUIPMENT WHERE PROTECTED APPLIANCES ARE LOCATED SHALL BE AUTOMATICALLY SHUT OFF UPON ACTIVATION OF THE EXTINGUISHING SYSTEM~~

(10.4.4) SHUTOFF DEVICE SHALL REQUIRE MANUAL RESETTING PRIOR TO FUEL / POWER BEING RESTORED

(10.5.1.1) AT LEAST ONE MANUAL ACTUATION DEVICE SHALL BE LOCATED IN A MEANS OF EGRESS OR AT A LOCATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.

(10.5.1.2) THE MANUAL ACTUATION DEVICE SHALL CLEARLY IDENTIFY THE HAZARD PROTECTED.

CMC 2022 EDITION

(513.5) ALL SYSTEMS SHALL HAVE BOTH AUTOMATIC AND MANUAL METHODS OF ACTUATION. AT LEAST ONE MANUAL ACTUATION DEVICE SHALL BE LOCATED IN A MEANS OF EGRESS OR AT A LOCATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.

INSTALLATION REQUIREMENTS

1. ALL PIPE SHALL BE SCHEDULE 40 BLACK IRON. CHROME PLATED/SLEEVED WHERE EXPOSED.
2. ALL CYLINDER SYSTEMS SHALL HAVE 3/8" SUPPLY LINES AND 3/8" BRANCH LINES.
3. ALL WIRE ROPE SHALL BE 1/16" STAINLESS STEEL AND RUN THROUGH 1/2" EMT CONDUIT.
4. U.L. LISTED CORNER PULLEYS REQUIRED WHENEVER THE STAINLESS STEEL CABLE DIRECTION CHANGES.
5. ALL EQUIPMENT WITH FIRE PROTECTION MUST BE SECURED TO FLOOR. (NOT BY STREIVOR)
6. SWIVEL ADAPTERS MAY BE ADDED TO NOZZLES FOR UP TO 30° ROTATION.

SYSTEM #5

PAGE NUMBERS REFERENCED FROM THE PYROCHEM FIRE SUPPRESSION SYSTEM TECHNICAL MANUAL

CABLE/LINE LIMITATIONS - CONTROL HEAD E

		LENGTH		PULLEYS	BRACKETS
FUSIBLE LINK (pg. 4-5)	MAXIMUM	150.00	FT	40	20
	ALLOTTED	20.00	FT	4	1*
PULL STATION(S) (pg. 4-9)	MAXIMUM	150.00	FT	40	N/A
	ALLOTTED	45.00	FT	2	N/A
GAS VALVE(S) (pg. 4-10)	MAXIMUM	100.00	FT	30	N/A
	ALLOTTED	--.--	FT	--	N/A

*ML STYLE FUSIBLE LINK INCLUDED WITH SYSTEM (NOT SUPPLIED BY STREIVOR). FUSIBLE LINK TEMPERATURE RATING TO BE VERIFIED AND DETERMINED IN FIELD.

CYLINDER #7

COVERAGE DESCRIPTION	NOZZLE	QTY.	FLOW POINTS	PAGE
DUCT	2D	1	2	3-1
PLENUM	1H	2	2	3-3

MODEL	FLOW POINTS			
PCL-300	4	ALLOTTED	10	MAXIMUM

TOTAL				FIRST TO LAST NOZZLE			
LENGTH**		VOLUME		LENGTH**		VOLUME	
36.00	FT	1350	ML	28.00	FT	1050	ML

CYLINDER #-

COVERAGE DESCRIPTION	NOZZLE	QTY.	FLOW POINTS	PAGE

MODEL	FLOW POINTS			
		ALLOTTED		MAXIMUM

TOTAL				FIRST TO LAST NOZZLE			
LENGTH**		VOLUME		LENGTH**		VOLUME	
FT		ML		FT		ML	

CYLINDER/PIPING LIMITATIONS

CYLINDER	FLOW POINTS	TOTAL				FIRST TO LAST NOZZLE			
		LENGTH*		VOLUME		LENGTH*		VOLUME	
PCL-460	15	69.33	FT	2600	ML	53.33	FT	2000	ML
PCL-460	14	90.67	FT	3400	ML	80.00	FT	3000	ML
PCL-300	10	50.93	FT	1910	ML	30.00	FT	1125	ML
PCL-160	5	40.00	FT	1500	ML	16.00	FT	600	ML

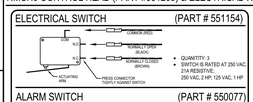
** CALCULATIONS BASED ON 3/8" PIPE (37.5 ML/FT) (SEE pg. 3-18)

LEGEND

- PATH OF EGRESS
- DETECTION LINE ROUTE
- K-CLASS FIRE EXTINGUISHER (NOT SUPPLIED BY STREIVOR)
- GAS VALVE
- PULL STATION
- RESET RELAY
- CONTROL HEAD
- DETECTOR BRACKET (FRONT VIEW)
- DETECTOR BRACKET (PLAN VIEW)
- NOZZLE COVERAGE
- PAC-10 PNEUMATIC TUBING
- FIELD PIPING
- FIELD WIRING NOT BY STRIEVOR
- DUCT NOZZLE MAX PERIMETER
- PLENUM NOZZLE MAX PLENUM LENGTH
- APPLIANCE NOZZLE AND HEIGHT
- DOWNWARD FACING NOZZLE
- ANGLED NOZZLE AND TARGET LOCATION

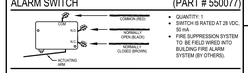
NMCH3 CONTROL HEAD (PART #551203) & ELECTRICAL WIRING

ELECTRICAL SWITCH (PART # 551154)



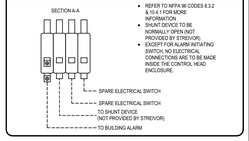
- QUANTITY: 3
- SWITCH IS RATED AT 250 VAC, 21A RESISTIVE; 250 VAC, 2 HP; 125 VAC, 1 HP

ALARM SWITCH (PART # 550077)

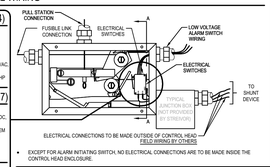


- QUANTITY: 1
- SWITCH IS RATED AT 28 VDC, 50 mA
- FIRE SUPPRESSION SYSTEM TO BE FIELD WIRED INTO BUILDING FIRE ALARM SYSTEM (BY OTHERS).

ELECTRICAL SWITCH WIRING



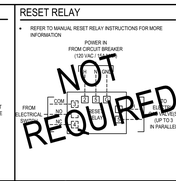
- REFER TO NFPA 96 CODES 8.3.2 & 10.4.1 FOR MORE INFORMATION
- ALL WIRING TO BE NORMALLY OPEN (NO) PROVIDED BY STREIVOR.
- EXCEPT FOR ALARM INITIATING SWITCH, NO ELECTRICAL CONNECTIONS ARE TO BE MADE INSIDE THE CONTROL HEAD ENCLOSURE.



- EXCEPT FOR ALARM INITIATING SWITCH, NO ELECTRICAL CONNECTIONS ARE TO BE MADE INSIDE THE CONTROL HEAD ENCLOSURE.

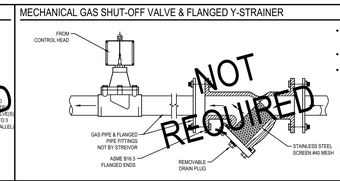
RESET RELAY

- REFER TO MANUAL RESET RELAY INSTRUCTIONS FOR MORE INFORMATION



MECHANICAL GAS SHUT-OFF VALVE & FLANGED Y-STRAINER

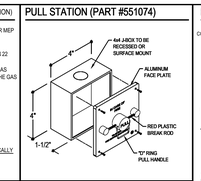
(SEE MEP DRAWINGS FOR LOCATION)



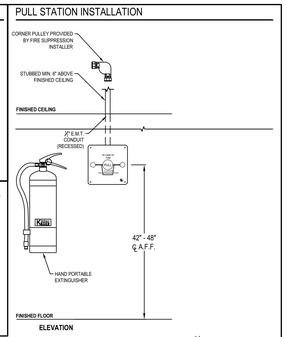
- GAS SHUT-OFF VALVE(S) TO BE SIZED AND LOCATED PER MEP DRAWINGS
  (MAXIMUM VALVE SIZE: 3" NPT)
- VALVE(S) AND STRAINERS TO BE INSTALLED BY DIVISION 22 (PLUMBING)
- Y-STRAINER REQUIRED FOR THE PROTECTION OF THE GAS VALVE. INSTALL A Y-STRAINER ON THE INLET SIDE OF THE GAS VALVE (AS CLOSE AS POSSIBLE).

Y-STRAINER NOT PROVIDED BY STREIVOR UNLESS SPECIFICALLY INCLUDED IN PURCHASE ORDER.

PULL STATION (PART #551074)



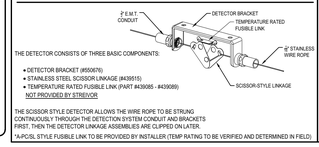
PULL STATION INSTALLATION



ELEVATION

DETECTORS

(Series #435546 | Terminal #435547)



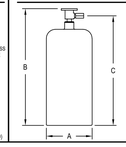
THE DETECTOR CONSISTS OF THREE BASIC COMPONENTS:

- DETECTOR BRACKET (#550676)
- STAINLESS STEEL SCISSOR LINKAGE (#439515)
- TEMPERATURE RATED FUSIBLE LINK (PART #435088 - #439089)
  NOT PROVIDED BY STREIVOR

THE SCISSOR STYLE DETECTOR ALLOWS THE WIRE ROPE TO BE STRUNG CONTINUOUSLY THROUGH THE DETECTION SYSTEM CONDUIT AND BRACKETS FIRST. THEN THE DETECTION LINKAGE ASSEMBLIES ARE CLIPPED ON LATER.

*A-PC/SL STYLE FUSIBLE LINK TO BE PROVIDED BY INSTALLER (TEMP RATING TO BE VERIFIED AND DETERMINED IN FIELD)

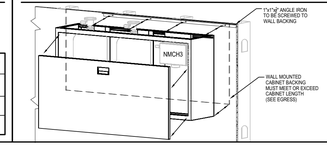
CYLINDER DETAILS



*CYLINDERS COME PRE-FILLED WITH EXTINGUISHING AGENT AND ARE CHARGED WITH DRY NITROGEN TO A PRESSURE OF 225 PSIG @ 70° F (15.5 BAR @ 21° C).

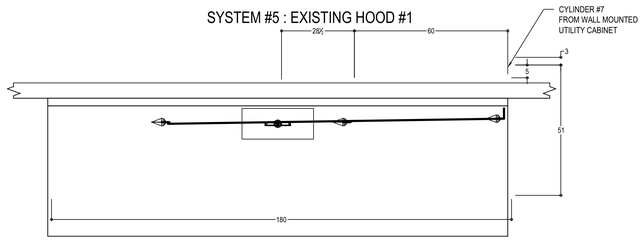
MODEL NO.	A	B	C	WEIGHT
PLC-160 (PART #550163)	8.00 IN	17.75 IN	15.44 IN	34 LBS.
PLC-300 (PART #551194)	8.00 IN	25.06 IN	22.75 IN	53 LBS.
PLC-460 (PART #551193)	10.00 IN	25.06 IN	22.75 IN	83 LBS.

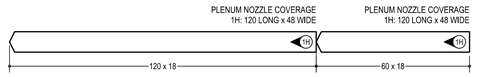
FIRE SUPPRESSION SYSTEM CABINET & REMOTE MOUNTED INSTALLATION



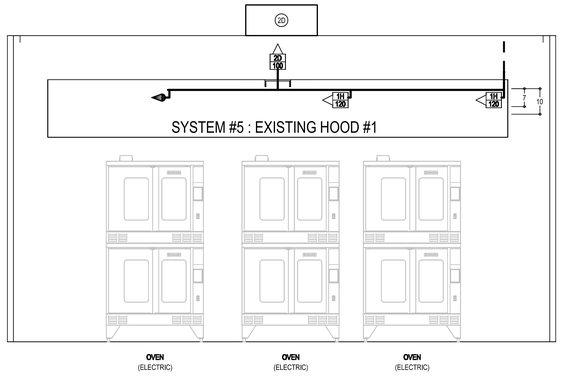
- 36" MINIMUM CLEARANCE REQUIRED IN FRONT OF THE REMOVABLE CABINET DOOR.
- SUPPORT BACKING REQUIRED IF CABINET MOUNTS TO WALL
- CABINET AND FIRE SUPPRESSION SYSTEM COMPONENTS APPROXIMATELY 100 LBS/FT. SEE PATH OF EGRESS DRAWING FOR CABINET DIMENSION(S).

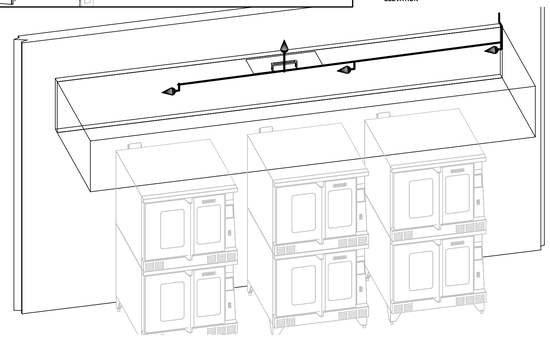
SYSTEM #5 : EXISTING HOOD #1





DUCT NOZZLE COVERAGE
2D: 100" PERIMETER

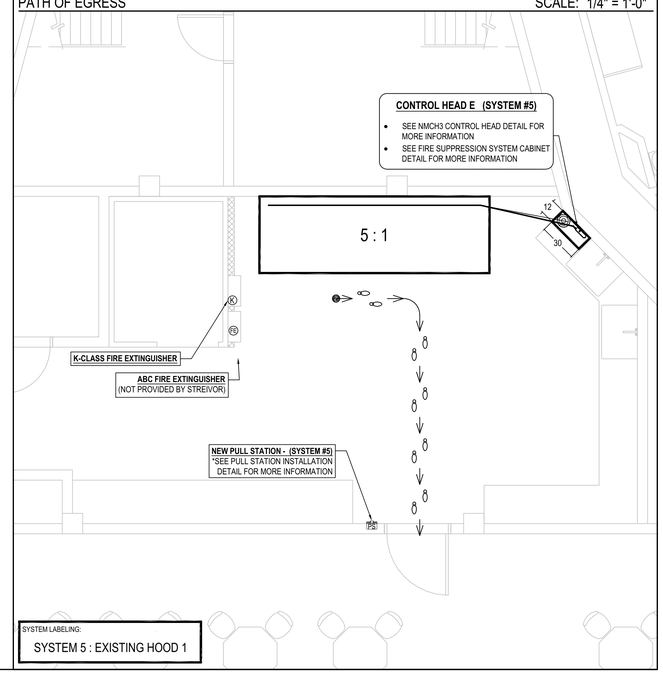




ALL FIRE SUPPRESSION SYSTEM PIPING TO BE FIELD INSTALLED BY A STREIVOR APPOINTED LICENSED FIRE SUPPRESSION SYSTEM INSTALLER

PATH OF EGRESS

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



SYSTEM LABELING:
SYSTEM 5 : EXISTING HOOD 1

INSTALLER:

GENERAL NOTES:

NOTES TO ARCHITECT AND/OR CONTRACTOR: STREIVOR, INC. (STREIVOR AIR SYSTEMS, STREIVOR ENGINEERS) IS A SPECIALIST IN THE LAYOUT AND DESIGN OF KITCHEN VENTILATION SYSTEMS, AND IN NO WAY PURPORTS TO BE ARCHITECTS OR ENGINEERS.

THIS PLAN IS SUBMITTED FOR THE CONVENIENCE OF THE ARCHITECT AND/OR CONTRACTOR AND IS DONE FROM AVAILABLE ARCHITECTURAL INFORMATION. ALL MEASUREMENTS ARE SUBJECT TO PHYSICAL VERIFICATION AND ANY DEVIATIONS OR DISCREPANCIES SHALL BE DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN WRITING.

STREIVOR, INC. ACCEPTS NO RESPONSIBILITY FOR WORK DONE BY SAID ARCHITECT OR GENERAL CONTRACTOR OR THEIR REPRESENTATIVES OR SUBCONTRACTORS, AND WILL NOT STAND ANY EXPENSE FOR CHANGES MADE NECESSARY DUE TO LOCAL BUILDING CODES, ORDINANCES, STRUCTURAL CONDITIONS, OR BY ANY SUBSTITUTIONS OR CHANGES IN EQUIPMENT SHOWN ON THIS PLAN.

ANY ERRORS, AMBIGUITIES OR OMISSIONS IN THIS PLAN OR SPECIFICATIONS SHALL BE REPORTED TO STREIVOR, INC. FOR CORRECTIONS BEFORE ANY OF THE WORK IS STARTED. UNLESS EXPRESSLY STIPULATED, NO ADDITIONAL ALLOWANCE WILL BE MADE IN FAVOR OF THE OWNER OR CONTRACTOR BY VIRTUE OF ERROR, AMBIGUITY OR OMISSION WHICH MAY HAVE BEEN CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS OR ESTIMATES, AND DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN A TIMELY MANNER.

STREIVOR™ AIR SYSTEMS

"STRIVING FOR EXCELLENCE"

2150 KITTY HAWK ROAD, LIVERMORE, CA 94551
PHONE: (925) 960-9090 FAX:(925) 960-9055
WWW.STREIVOR.COM

CUSTOMER APPROVAL

COOKING EQUIPMENT VERIFICATION

VERIFY THE FOLLOWING:

HIGH BACK SHELVES	YES ☐	NO ☐
RANGE COOKING SURFACE DEPTH GREATER THAN 28"	YES ☐	NO ☐
PULL STATION LOCATION(S)	YES ☐	NO ☐
UTILITY CABINET LOCATION(S)	YES ☐	NO ☐
AGENT DISTRIBUTION HOSE AND RESTRAINING CABLE KIT	YES ☐	NO ☐
CEILING HEIGHT	___'-___"	

APPROVED BY DATE

NOTE TO REVIEWER:
ANY CHANGES IN COOKING EQUIPMENT SUCH AS EQUIPMENT POSITION, TYPE AND/OR INCREASE IN ENERGY OUTPUT MAY EFFECT EXHAUST AIRFLOW. STREIVOR AIR SYSTEMS MUST BE NOTIFIED OF ANY CHANGES THAT OCCUR PRIOR TO FABRICATION. A RE-ENGINEERING OF THE EXHAUST SYSTEM MAY BE REQUIRED. ADDITIONAL COSTS DUE TO FIRE SUPPRESSION PRE-TEST IS NOT INCLUDED UNLESS SPECIFICALLY LISTED IN QUOTE.

PROJECT:

CDCR PELICAN BAY

5905 LAKE EARL DRIVE
CRESCENT CITY, CA 95531

THE MARSHALL ASSOCIATES

ITEM #:	44
SYSTEM #:	5
HOOD #:	43
DATE:	04/11/2023
DRAWN BY:	KCS
CHECKED BY:	SWB
CONSULTANT:	THE MARSHALL ASSOCIATES
SCALE: (UNLESS OTHERWISE NOTED)	1/2" = 1' - 0"
1" BAR DOES NOT MEASURE 1" THIS DRAWING IS NOT PLOTTED TO SCALE	

	DESCRIPTION	DATE	INT.
1	PLAN CHECK COMMENTS	03/19/24	KCS
2	---	--/--/--	---
3	---	--/--/--	---
4	---	--/--/--	---
5	---	--/--/--	---

DRAWING:

F-06

SHEET 06 OF 11

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CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

The Marshall Associates, Inc.
Foodservice & Laundry Consultants/Designers
3000 Danville Blvd Suite F-344 Alamo, CA 94507
2129 4th Street Santa Rosa, CA 95404
415/677-1200 Fax 415/677-1210

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
11/04/24
23-5898
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REV.	DATE:	DESCRIPTION

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS
Project No.: 5882.00

HIBSER YAMAUCHI Architects, Inc.
4602 2nd Street, Suite #3
Davis, CA 95616
530.758.1270 office
530.758.4789 fax

LICENSED ARCHITECT KEN SWB YAMAUCHI C-26566 02-28-2025 RENEWAL DATE STATE OF CALIFORNIA

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

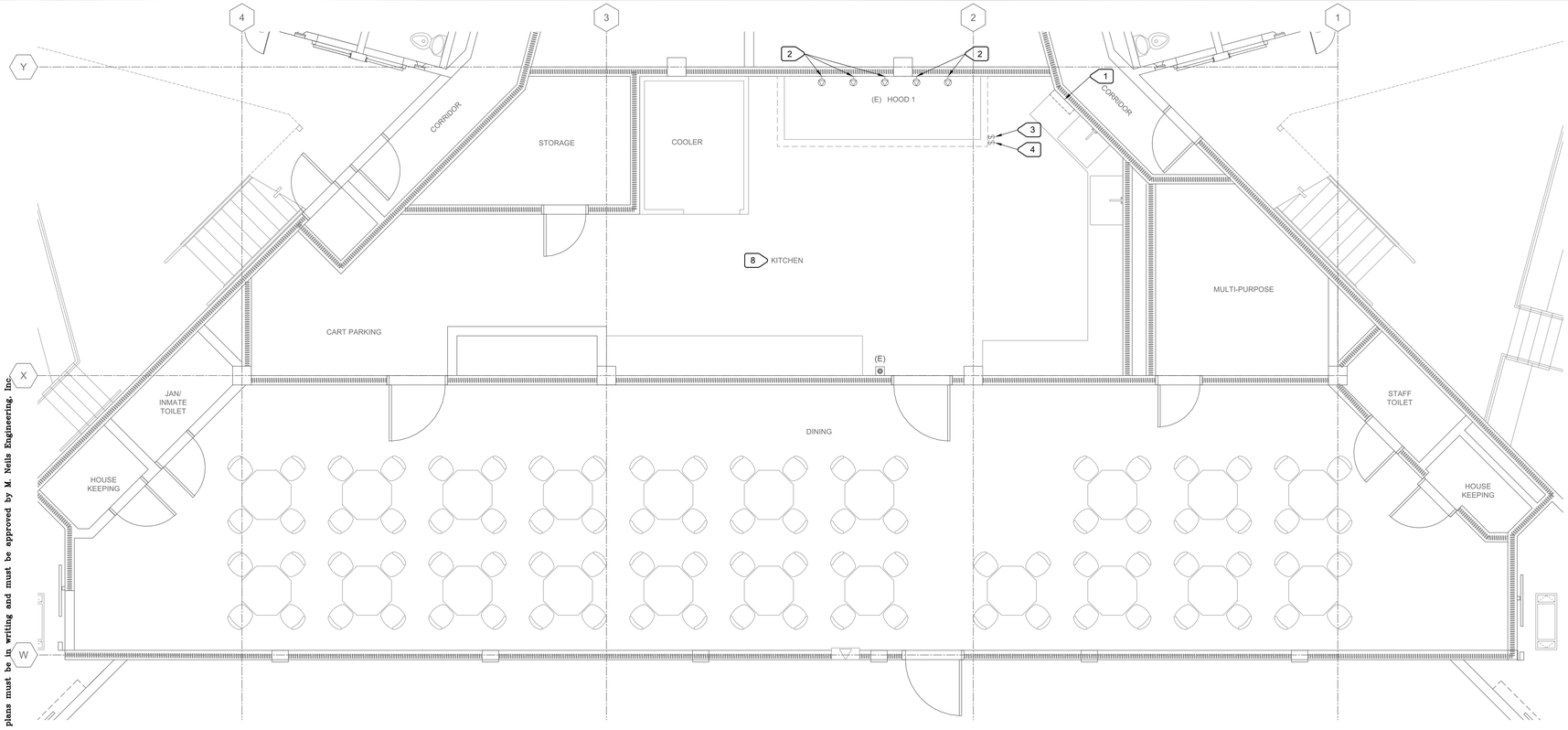
SHEET TITLE: BUILDING H02 A2 - ADMIN BUILDING FIRE SUPPRESSION MFR PLAN

CDCR Job Nos.: 20-0334

SHEET NUMBER

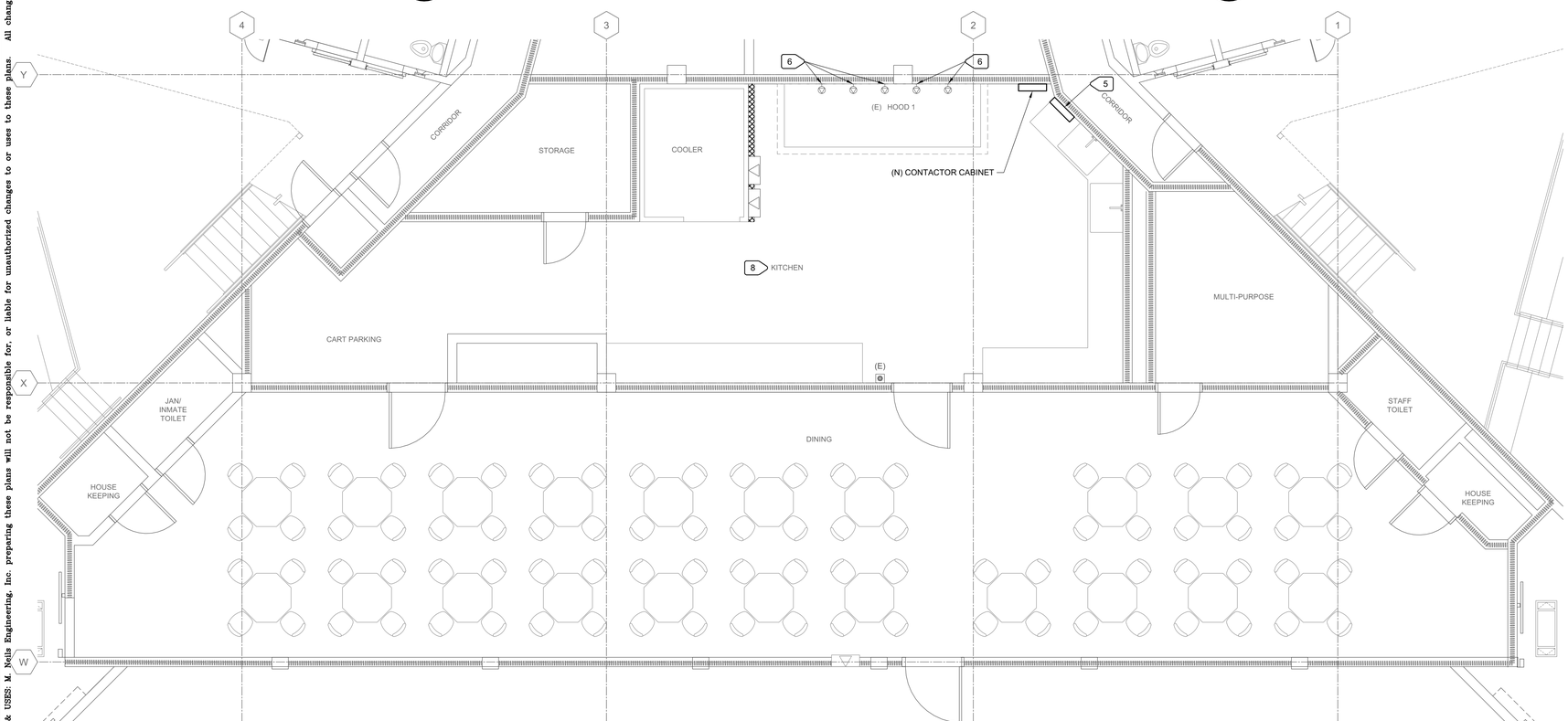
FS-F1.3

V3



1 E-F1.1 BUILDING H02 - A2 KITCHEN - ENLARGED PLAN - DEMOLITION - ELECTRICAL

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

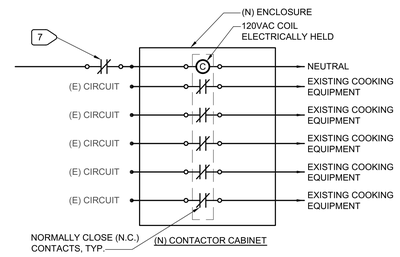


2 E-F1.1 BUILDING H02 - A2 KITCHEN - ENLARGED PLAN - REMODEL - ELECTRICAL

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

NUMBERED NOTES

1. EXISTING FIRE SUPPRESSION SYSTEM CONTROL PANEL TO BE REMOVED. DISCONNECT EXISTING 120V POWER CIRCUIT AND FIRE ALARM MONITORING CIRCUIT AND PROTECT FOR CONNECTION TO NEW PANEL.
2. EXISTING EQUIPMENT POWER RECEPTACLE TO REMAIN.
3. EXISTING HOOD LIGHT SWITCH TO REMAIN.
4. EXISTING HOOD FAN SWITCH TO REMAIN.
5. NEW FIRE SUPPRESSION SYSTEM CONTROL PANEL. RECONNECT TO EXISTING 120V POWER CIRCUIT AND FIRE ALARM MONITORING CIRCUIT. SEE DETAIL "1/E-0.1" ON SHEET E-0.1".
6. LOCATE AND INTERCEPT EXISTING EQUIPMENT POWER CIRCUIT AND RE-ROUTE THROUGH NEW CONTACTOR. SEE DETAIL"3/E-F1.1".
7. WHEN THE NORMALLY CLOSED (N.C.) AUXILIARY CONTACT IN FIRE SUPPRESSION SYSTEM CONTROL PANEL IS OPEN, THE ELECTRICALLY HELD CONTROL COIL IS DE-ENERGIZED AND THE N.C. CONTACTORS ARE OPENED, DE-ENERGIZING THE EQUIPMENT UNDER THE HOOD.
8. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND RATING OF FIRE RATED WALLS.



3 E-F1.1 CONTACTOR CABINET DIAGRAM

NO SCALE

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FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project No: 5892.00
Project Phase: FINAL DRAWINGS

HIBSER YAMAUCHI Architects, Inc.
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530.758.4769 fax

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

SHEET BUILDING H02 - A2 KITCHEN - ENLARGED PLANS - DEMOLITION AND REMODEL - ELECTRICAL
TITLE:

CDCR Job No.: 20-034

CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

REGISTERED PROFESSIONAL ENGINEER
JESSE U. BASTIAN
No. E20329
Exp. 03-31-25
ELECTRICAL
STATE OF CALIFORNIA
10/15/2024

M. NEILS
ENGINEERING, INC.
Electrical Engineers | Lighting Designers
100 Howe Ave., Suite 235N
Sacramento, CA 95825-8217
www.mneilsengineering.com
Tel: (916) 923-4400
PROJECT #: 22238.21
PROJECT MGR: Stuart Lindsay

SHEET NUMBER
E-F1.1
V3

UNAUTHORIZED CHANGES & USES: M. Neils Engineering, Inc. preparing these plans will not be responsible for, or liable for unauthorized changes to or uses to these plans. All changes to these plans must be in writing and must be approved by M. Neils Engineering, Inc.

Oct 15, 2024 – 2:30pm, / kerlo

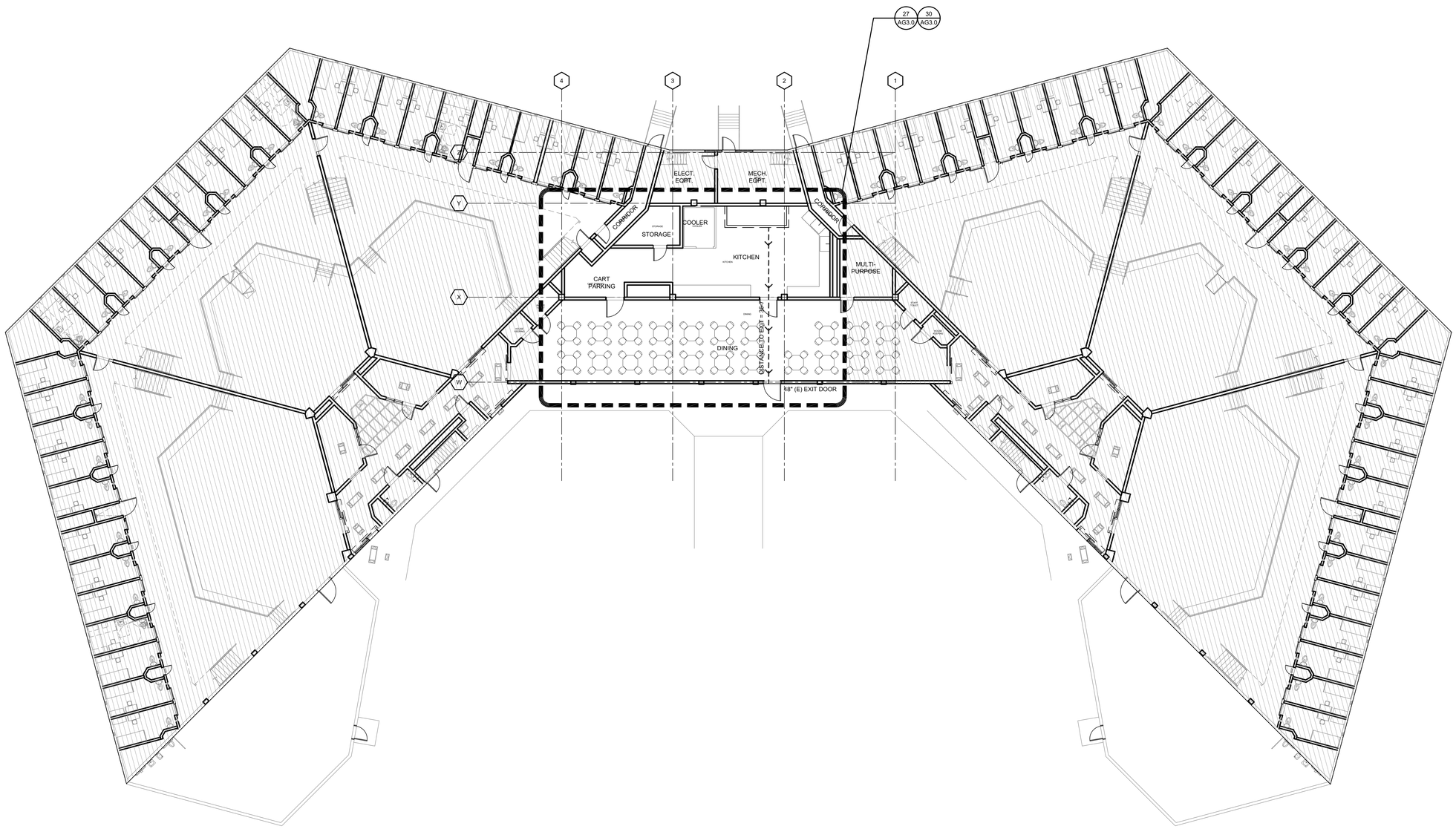
GENERAL NOTES

1. DESIGN, FURNISH, INSTALL AND TEST NEW FIRE SYSTEM.
2. FIELD VERIFY ALL EXISTING CONDITIONS AS NECESSARY FOR THE WORK. DRAWINGS WERE PRODUCED FROM FIELD NOTES.
3. NEW SUPPRESSION MANUAL PULL STATION TO BE WITHIN THE KITCHEN ROOM, BETWEEN 10FT TO 20FT FROM THE HOOD AND IN ROUTE THE EXIT DOOR.
4. NEW (K) CLASS FIRE EXTINGUISHER TO BE WITHIN 30FT FROM THE HOOD. IF NEEDED PROVIDE A SECOND EXTINGUISHER AS SHOWN IN DRAWINGS.
5. AFTER CONSTRUCTION IS COMPLETE, REPAIR ADJACENT SURFACES TO MATCH EXISTING IN PRE-CONSTRUCTION CONDITION. SEE DRAWINGS TO ENSURE PROPER FIRE RATING IS MAINTAINED.
6. NEW PULL STATIONS TO BE INSTALLED WITH OPERABLE PARTS NOT HIGHER THAN 48" AFF. PROVIDE ACCESSIBLE CLEARANCE IN FRONT OF THE PULL STATION.
7. NEW FIRE EXTINGUISHERS TO BE MOUNTED IN A CABINET WITH TOP SET AT 48" MAX. AFF. FOR RECESSED CABINET INSTALL SO IT DOES NOT PROTRUDE MORE THAN 4" OUT OF THE WALL, UON.
8. THE REMOVAL OF CONDUIT OR PIPING SHALL BE SEALED WITH LISTED OR EQUIVALENT LIQUID TIGHT SEALING DEVICES. (NFPA 96 SECTION: 10.2.7.2)
9. FOR STRUCTURAL ANCHORAGE FOR KITCHEN EQUIPMENT SEE SHEET S9.0 AND S9.1

LEGEND

AREA NOT IN SCOPE

PATH OF TRAVEL TO EXIT



30 BUILDING H03 - A3 KITCHEN - OVERALL PLAN

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

N

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1334 1/8/2025
CASp-491

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DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS
Project No: 5892.00

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LICENSED ARCHITECT
KEN YAMAUCHI
C-26566
02-28-2025
RENEWAL DATE
STATE OF CALIFORNIA

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

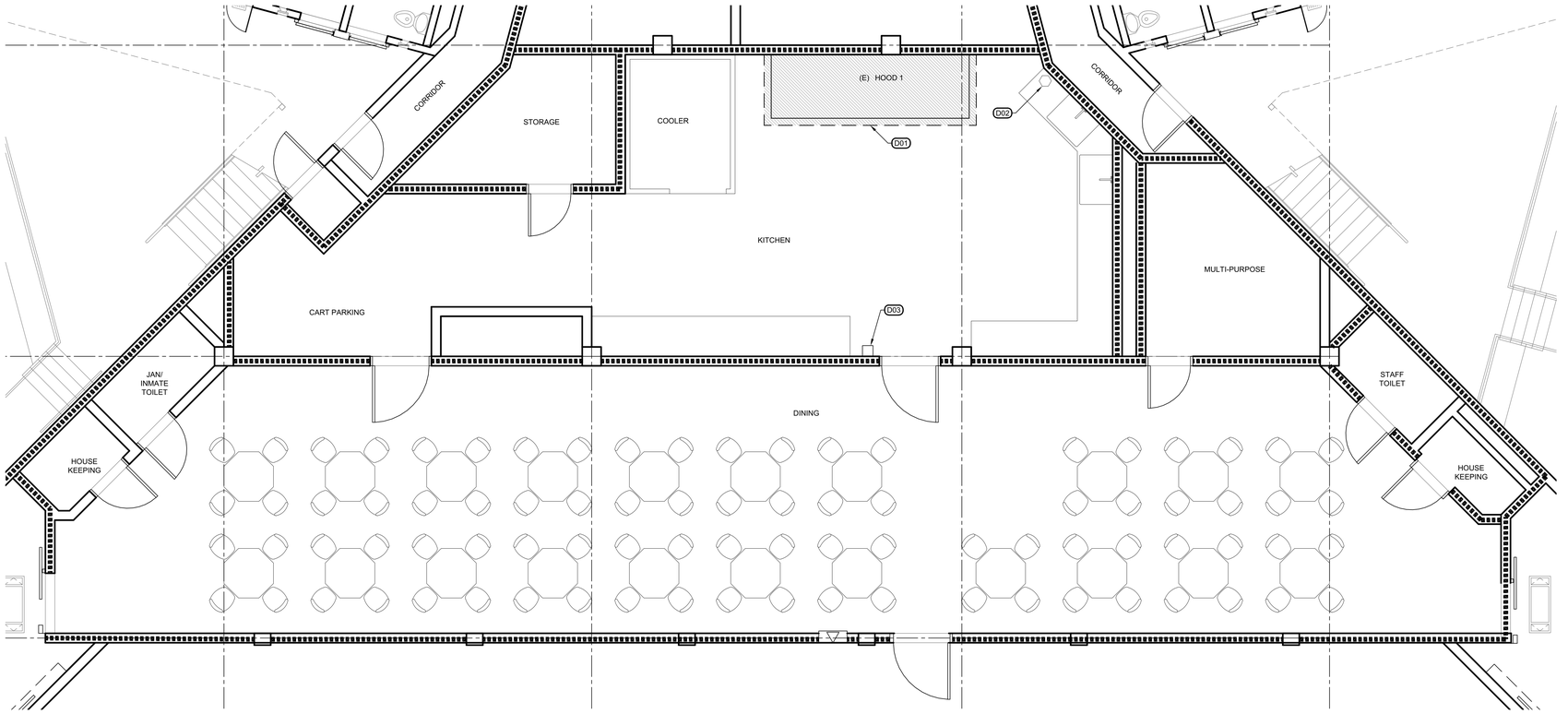
SHEET TITLE: BUILDING H03, A3 KITCHEN
OVERALL PLAN

CDCR Project No.: 20-034

SHEET NUMBER
AG2.0

V3

9/27/2023 5:49 PM

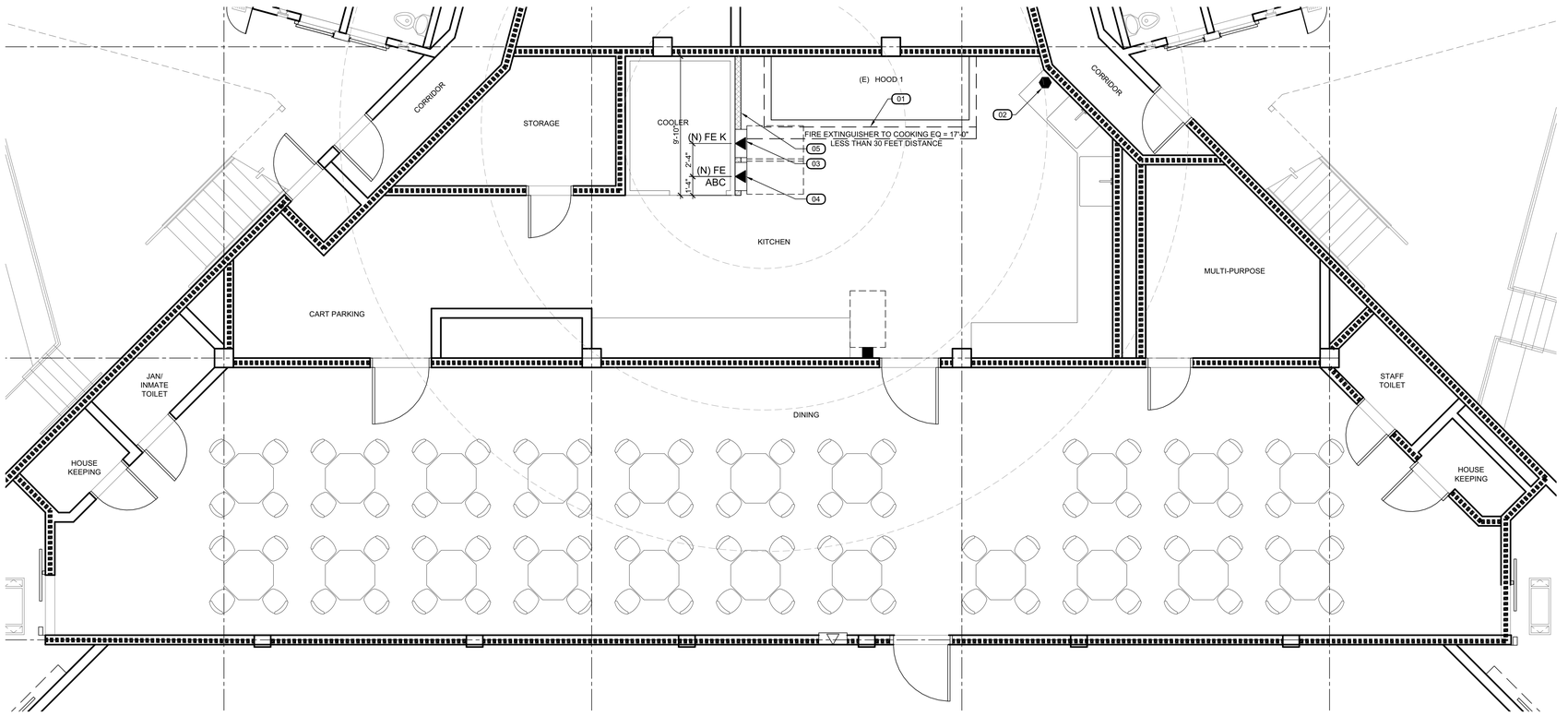


27 BUILDING H03 - A3 KITCHEN ENLARGED PLAN - DEMOLITION

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

GRAPHIC SCALE: 0 1' 2' 4' 8' 12' 1/4" = 1'-0"

N



30 BUILDING H03 - A3 KITCHEN ENLARGED PLAN - REMODEL

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

GRAPHIC SCALE: 0 1' 2' 4' 8' 12' 1/4" = 1'-0"

N

CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

GENERAL NOTES

1. DESIGN, FURNISH, INSTALL AND TEST NEW FIRE SYSTEM.
2. FIELD VERIFY ALL EXISTING CONDITIONS AS NECESSARY FOR THE WORK. DRAWINGS WERE PRODUCED FROM FIELD NOTES.
3. NEW SUPPRESSION MANUAL PULL STATION TO BE WITHIN THE KITCHEN ROOM, BETWEEN 10FT TO 20FT FROM THE HOOD AND IN ROUTE THE EXIT DOOR.
4. NEW (K) CLASS FIRE EXTINGUISHER TO BE WITHIN 30FT FROM THE HOOD. IF NEEDED PROVIDE A SECOND EXTINGUISHER AS SHOWN IN DRAWINGS.
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9. FOR STRUCTURAL ANCHORAGE FOR KITCHEN EQUIPMENT SEE SHEET S9.0 AND S9.1

WALL LEGEND

(N) FURRING WALL. SEE DETAIL 12/A9.0

(E) CMU WALL

DEMOLITION LEGEND

EXISTING KITCHEN HOOD TO REMAIN. ANSUL SYSTEM TO BE REPLACED. SEE FS DRAWINGS FOR DETAILS AND EQUIPMENT LAYOUT.

FSS — (E) FIRE SUPPRESSION SYSTEM CONTROL BOX

FEC — (E) FIRE EXTINGUISHING CABINET WITH FIRE HOSE AND FIRE EXTINGUISHER INSIDE.

PS — (E) PULL STATION LOCATION AND SIGN INDICATING ANSUL SYSTEM NUMBER. SEE GENERAL NOTES AND FS DRAWINGS.

FE (ABC) — (E) ABC-CLASS PORTABLE FIRE EXTINGUISHER

REMODEL LEGEND

FSS — (N) FIRE SUPPRESSION SYSTEM CONTROL BOX

DISTANCE (30 FEET MAXIMUM UNOBSTRUCTED FROM COOKING EQUIPMENT TO FIRE EXTINGUISHER.

FE (ABC) — (N) ABC-CLASS PORTABLE FIRE EXTINGUISHER

FE (K) — (N) K-CLASS PORTABLE FIRE EXTINGUISHER

DEMOLITION KEYNOTES

D01 (E) KITCHEN HOOD TO REMAIN. ANSUL SYSTEM TO BE REPLACED. SEE FS DRAWINGS .

D02 (E) FIRE SUPPRESSION SYSTEM CONTROL BOX TO BE REPLACED. SEE FS DRAWING.

D03 REMOVE (E) PULL STATION. PATCH, REPAIR AND PAINT ADJACENT SURROUNDINGS TO MATCH (E) CONDITIONS.

REMODEL KEYNOTES

01 ANSUL SYSTEM TO BE REPLACED. SEE FS DRAWINGS FOR DETAILS AND EQUIPMENT LOCATIONS.

02 (N) FIRE SUPPRESSION SYSTEM CONTROL BOX. SEE FS DRAWINGS.

03 (N) RECESSED FIRE EXTINGUISHER CABINET EQUIPPED W/K CLASS FIRE EXTINGUISHER. SEE DETAIL 1/A9.0 & FS DRAWINGS FOR SIZING

04 (N) RECESSED FIRE EXTINGUISHER CABINET EQUIPPED W/ ABC CLASS FIRE EXTINGUISHER, SIZE 2A. SEE DETAIL 1/A9.0

05 (N) FURRING WALL, SEE DETAIL 12/A9.0

06 (N) PULL STATION. SEE FS DRAWINGS. ENSURE MIN. 15" CLEARANCE BETWEEN CENTER OF PULL STATION AND COUNTER FOR ADA ACCESS

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FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FNAL DRAWINGS
Project No: 5892.00

HIBSER YAMAUCHI Architects, Inc.
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LICENSED ARCHITECT
KEN YAMAUCHI
C-26566
02-28-2025
RENEWAL DATE
STATE OF CALIFORNIA

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

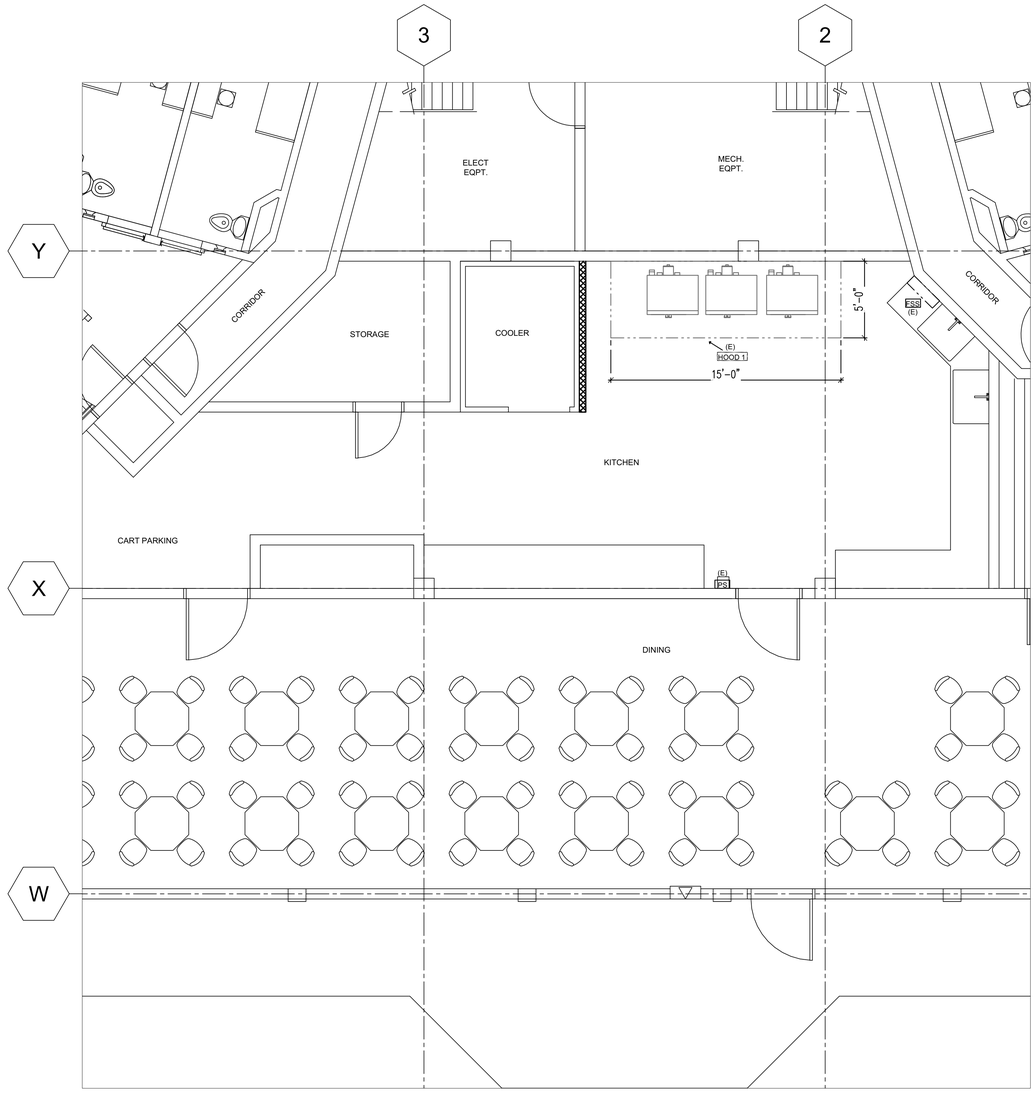
SHEET TITLE: BUILDING H03, A3 KITCHEN, ENLARGED PLANS - DEMOLITION AND REMODEL

CDCR Project Nos.: 20-034

SHEET NUMBER
AG3.0

V3

2/14/2024 12:14 PM



30 BLDG H03 A3 HOUSING UNIT - FIRE SUPPRESSION DEMO PLAN

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

GENERAL NOTES:

A. ALL EQUIPMENT TO HAVE NSF, ETL SANITATION OR UL SANITATION APPROVALS.

B. INSTALLATION TO MEET CALIFORNIA RETAIL FOOD CODE (CRFC) LATEST EDITION.

FIRE SUPPRESSION CONTRACTOR TO:

A. REMOVE EXISTING FIRE SUPPRESSION SYSTEM AND ALL COMPONENTS.

B. REFER TO ARCHITECTURAL DRAWING SHEET NOTES FOR NOTES AND GUIDELINES REGARDING EXISTING CONDITION GUIDELINES

SYMBOLS

(E) FSS EXISTING FIRE SUPPRESSION SYSTEM; TO BE REMOVED

(E) PS EXISTING FIRE PROTECTION PULL BOX; TO BE REMOVED

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1334 1/8/2025
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CRESCENT CITY, CA 95531

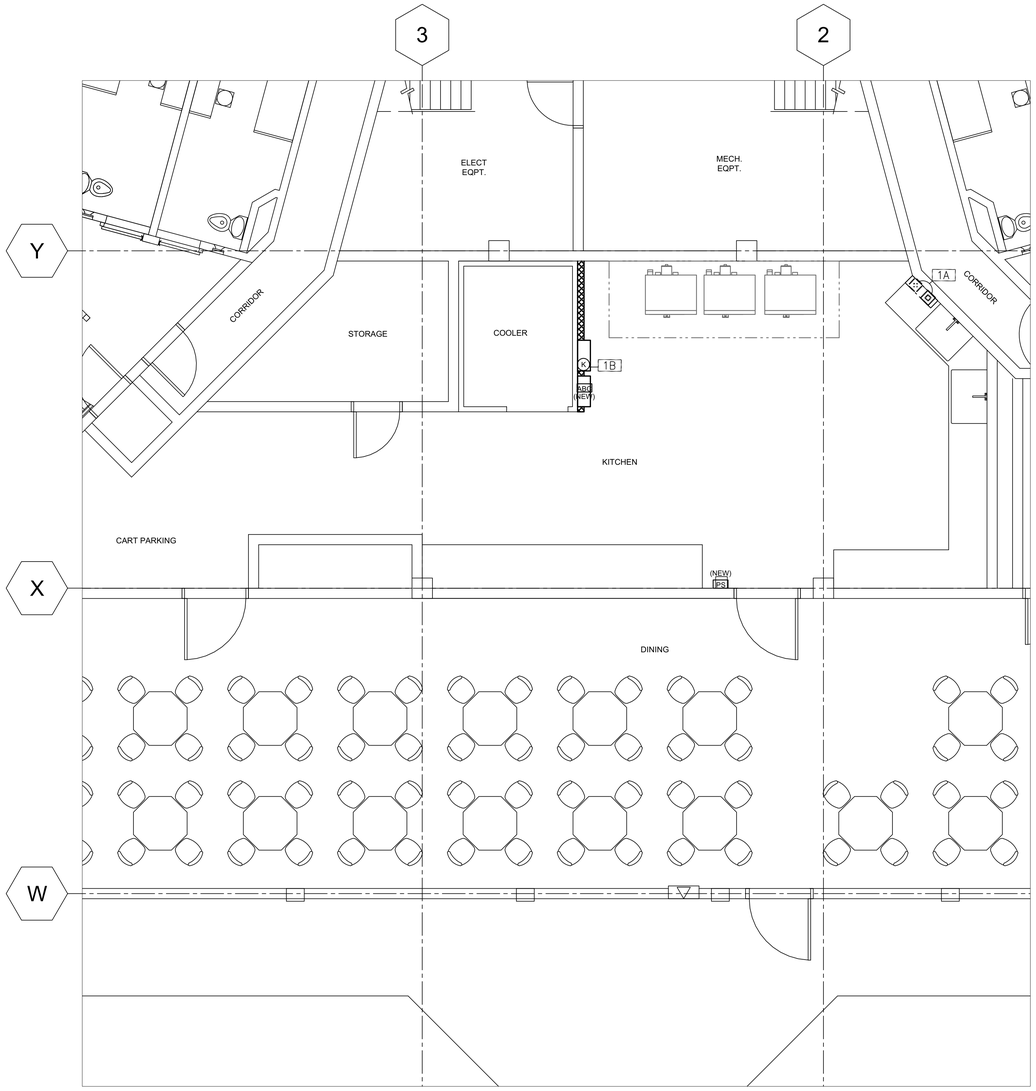
DATE: JULY 19, 2024

SHEET TITLE: BUILDING H03 - A3 KITCHEN
FIRE SUPPRESSION DEMO PLAN

CDCR 20-034
Job Nos.:

SHEET NUMBER
FS-G1.1

V3



30 BLDG H03 A3 HOUSING UNIT - FIRE SUPPRESSION NEW EQUIPMENT PLAN

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

EQUIPMENT SCHEDULE

ITEM	QTY	DESCRIPTION	MANUFACTURER	MODEL NUMBER	NOTES
1	1	EXHAUST HOOD (TYPE-I)	EXISTING; IN PLACE	NOT PART OF FSEC CONTRACT	NIC
1A	1	FIRE PROTECTION SYSTEM	STREVOR AIR SYSTEMS	PYRO-CHEM KITCHEN KNIGHT II	
1B	1	CLASS K FIRE EXTINGUISHER	BUCKEYE	WC-6L	
A	3	ELECTRIC CONVECTION OVEN	VULCAN (EXISTING)	ER-10 (EXISTING)	NIC
B	1	14 GA S/S WALL FLASHING	EXISTING	NOT PART OF FSEC CONTRACT	NIC

ABBREVIATIONS:

FSEC	FOODSERVICE EQUIPMENT CONTRACTOR
S/S	STAINLESS STEEL
NIC	NOT IN CONTRACT
CKT	CIRCUIT

ELECTRICAL ROUGH-IN

ITEM	QTY	DESCRIPTION	CONNECTED LOAD 120/1	120/208/1	120/208/3	208/1	208/3	480/3	HT	CONNECTION TYPE C&P	RECP	HW
1	1	EXHAUST HOOD (TYPE-I)										
1A	1	FIRE PROTECTION SYSTEM	20A CKT						FA			*
1B	1	CLASS K FIRE EXTINGUISHER										

ABBREVIATIONS:

C&P	CORD AND PLUG	CKT	CIRCUIT
RECP	RECEPTACLE	E	EXISTING
HW	HARDWIRE		
HT	HEIGHT		
FA	FROM ABOVE		

SCHEDULE / DRAWING NOTES:

CONNECTED LOAD = EACH CONNECTION SHOWN ON DRAWING

CONNECTION TYPES PROVIDED BY ELECTRICAL DIVISION

SHEET NOTES

FIRE SUPPRESSION CONTRACTOR TO PROVIDE:

A. WORK AS DESCRIBED IN CONTRACT DOCUMENTS AND SUPPLEMENTAL REQUIREMENTS PER FIRE SUPPRESSION EQUIPMENT SECTION.

B. ROUGH-IN AND FINAL CONNECTION TO ALL FIRE SUPPRESSION EQUIPMENT AS INDICATED ON DRAWINGS AND IN ELECTRICAL ROUGH-IN SCHEDULE.

C. ALL JUNCTION-BOXES, ELECTRICAL OUTLETS, COVER PLATES, SWITCHES NOT BUILT INTO FIXTURES OR EQUIPMENT.

D. SHUNT TRIP CIRCUIT BREAKERS FOR ALL FOODSERVICE EQUIPMENT BELOW EXHAUST HOODS.

E. INCLUDE DORMONT POSI-SET CASTER PLACEMENT SAFETY SYSTEM FOR ALL EXISTING MOBILE COOKING EQUIPMENT BELOW EXISTING HOODS AFTER NEW FIRE SUPPRESSION SYSTEM HAS BEEN INSTALLED. SEE S9.1 FOR DETAIL

F. ALL OTHER EXISTING EQUIPMENT TO BE ANCHORED PER REQUIREMENTS SHOWN ON S9.1

INTERCONNECTION BETWEEN:

A. FIRE PROTECTION SYSTEM AND BUILDING LIFE SAFETY.

SYMBOLS

PS — NEW FIRE PROTECTION PULL BOX – OCTAGONAL BOX 48" AFF WITH CONDUIT TO CEILING – PYRO CHEM KITCHEN KNIGHT II MODEL RPS-M

ABC — NEW ABC FIRE EXTINGUISHER SEE SHEET AA3.0 FOR MAKE/MODEL

K — NEW TYPE K FIRE EXTINGUISHER BUCKEYE; MODEL WC-6L

JUNCTION BOX ROUGH-IN

JUNCTION BOX CONNECTION PROVIDED IN EQUIPMENT

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23-8398

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02-28-2025
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REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

SHEET TITLE: BUILDING H02 - A2 KITCHEN
FIRE SUPPRESSION NEW EQUIPMENT PLAN

CDCR 20-034
Job Nos.:

SHEET NUMBER

FS-G1.2

V3

LISTINGS & STANDARDS

THIS WET CHEMICAL EXTINGUISHING SYSTEM IS ENGINEERED TO PROVIDE FIRE PROTECTION FOR RESTAURANT HOODS, DUCTS AND COOKING APPLIANCES, IS **UL 300** LISTED AND IS TO BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS:

- NFPA 17A 2021 EDITION
- NFPA 10 2018 EDITION
- NFPA 96 2021 EDITION

SECTIONS & CODES

NFPA 10 2018 EDITION

(6.6.2) MAXIMUM TRAVEL DISTANCE SHALL NOT EXCEED 30 FT (9.1 M) FROM THE HAZARD TO THE EXTINGUISHER(S)

NFPA 17A 2021 EDITION

(5.2.1.10.1) EACH MANUAL ACTUATION DEVICE SHALL BE INSTALLED NO MORE THAN 48 IN. (1200 MM) AND NO LESS THAN 42 IN. (1067 MM) ABOVE THE FLOOR.

NFPA 96 2021 EDITION

(8.2.3.1) A HOOD EXHAUST FAN(S) SHALL CONTINUE TO OPERATE AFTER THE EXTINGUISHING SYSTEM HAS BEEN ACTIVATED UNLESS FAN SHUTDOWN IS REQUIRED BY A LISTED COMPONENT OF THE VENTILATION SYSTEM OR BY THE DESIGN OF THE EXTINGUISHING SYSTEM.

(8.2.3.2) THE HOOD EXHAUST FAN SHALL START UPON ACTIVATION OF THE EXTINGUISHING SYSTEM IF THE EXHAUST FAN AND ALL COOKING EQUIPMENT SERVED BY THE FAN HAVE BEEN SHUT DOWN, UNLESS FAN SHUTDOWN IS REQUIRED BY A LISTED COMPONENT OF THE VENTILATION SYSTEM OR BY THE LISTING OF THE EXTINGUISHING SYSTEM.

(8.3.2) WHEN THE FIRE-EXTINGUISHING SYSTEM ACTIVATES, MAKEUP AIR SUPPLIED INTERNALLY TO A HOOD SHALL BE SHUT OFF.

(10.4.1) UPON ACTIVATION OF ANY FIRE EXTINGUISHING SYSTEM FOR A COOKING OPERATION, ALL ~~SOURCES OF FUEL~~ AND ELECTRICAL POWER THAT PRODUCE HEAT TO ALL EQUIPMENT REQUIRING PROTECTION BY THAT SYSTEM SHALL AUTOMATICALLY SHUT OFF.

(10.4.3) ~~GAS APPLIANCE NOT REQUIRING PROTECTION BUT LOCATED UNDER VENTILATING EQUIPMENT WHERE PROTECTED APPLIANCES ARE LOCATED SHALL BE AUTOMATICALLY SHUT OFF UPON ACTIVATION OF THE EXTINGUISHING SYSTEM~~

(10.4.4) SHUTOFF DEVICE SHALL REQUIRE MANUAL RESETTING PRIOR TO FUEL / POWER BEING RESTORED

(10.5.1.1) AT LEAST ONE MANUAL ACTUATION DEVICE SHALL BE LOCATED IN A MEANS OF EGRESS OR AT A LOCATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.

(10.5.1.2) THE MANUAL ACTUATION DEVICE SHALL CLEARLY IDENTIFY THE HAZARD PROTECTED.

CMC 2022 EDITION

(513.5) ALL SYSTEMS SHALL HAVE BOTH AUTOMATIC AND MANUAL METHODS OF ACTUATION. AT LEAST ONE MANUAL ACTUATION DEVICE SHALL BE LOCATED IN A MEANS OF EGRESS OR AT A LOCATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.

INSTALLATION REQUIREMENTS

1. ALL PIPE SHALL BE SCHEDULE 40 BLACK IRON. CHROME PLATED/SLEEVED WHERE EXPOSED.
2. ALL CYLINDER SYSTEMS SHALL HAVE 3/8" SUPPLY LINES AND 3/8" BRANCH LINES.
3. ALL WIRE ROPE SHALL BE 1/16" STAINLESS STEEL AND RUN THROUGH 1/2" EMT CONDUIT.
4. U.L. LISTED CORNER PULLEYS REQUIRED WHENEVER THE STAINLESS STEEL CABLE DIRECTION CHANGES.
5. ALL EQUIPMENT WITH FIRE PROTECTION MUST BE SECURED TO FLOOR. (NOT BY STREIVOR)
6. SWIVEL ADAPTERS MAY BE ADDED TO NOZZLES FOR UP TO 30° ROTATION.

SYSTEM #6

PAGE NUMBERS REFERENCED FROM THE PYROCHEM FIRE SUPPRESSION SYSTEM TECHNICAL MANUAL

CABLE/LINE LIMITATIONS - CONTROL HEAD F

		LENGTH		PULLEYS	BRACKETS
FUSIBLE LINK (pg. 4-5)	MAXIMUM	150.00	FT	40	20
	ALLOTTED	20.00	FT	4	1*
PULL STATION(S) (pg. 4-9)	MAXIMUM	150.00	FT	40	N/A
	ALLOTTED	45.00	FT	2	N/A
GAS VALVE(S) (pg. 4-10)	MAXIMUM	100.00	FT	30	N/A
	ALLOTTED	--.--	FT	--	N/A

*ML STYLE FUSIBLE LINK INCLUDED WITH SYSTEM (NOT SUPPLIED BY STREIVOR). FUSIBLE LINK TEMPERATURE RATING TO BE VERIFIED AND DETERMINED IN FIELD.

CYLINDER #8

COVERAGE DESCRIPTION	NOZZLE	QTY.	FLOW POINTS	PAGE
DUCT	2D	1	2	3-1
PLENUM	1H	2	2	3-3

MODEL	FLOW POINTS			
PCL-300	4	ALLOTTED	10	MAXIMUM

TOTAL				FIRST TO LAST NOZZLE			
LENGTH**		VOLUME		LENGTH**		VOLUME	
36.00	FT	1350	ML	28.00	FT	1050	ML

CYLINDER #-

COVERAGE DESCRIPTION	NOZZLE	QTY.	FLOW POINTS	PAGE

MODEL	FLOW POINTS		
		ALLOTTED	MAXIMUM

TOTAL				FIRST TO LAST NOZZLE			
LENGTH**		VOLUME		LENGTH**		VOLUME	
	FT		ML		FT		ML

CYLINDER/PIPING LIMITATIONS

CYLINDER	FLOW POINTS	TOTAL				FIRST TO LAST NOZZLE			
		LENGTH*		VOLUME		LENGTH*		VOLUME	
PCL-460	15	69.33	FT	2600	ML	53.33	FT	2000	ML
PCL-460	14	90.67	FT	3400	ML	80.00	FT	3000	ML
PCL-300	10	50.93	FT	1910	ML	30.00	FT	1125	ML
PCL-160	5	40.00	FT	1500	ML	16.00	FT	600	ML

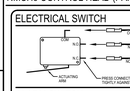
** CALCULATIONS BASED ON 3/8" PIPE (37.5 ML/FT) (SEE pg. 3-18)

LEGEND

- PATH OF EGRESS
- DETECTION LINE ROUTE
- K-CLASS FIRE EXTINGUISHER (NOT SUPPLIED BY STREIVOR)
- GAS VALVE
- PULL STATION
- RESET RELAY
- CONTROL HEAD
- DETECTOR BRACKET (FRONT VIEW)
- DETECTOR BRACKET (PLAN VIEW)
- NOZZLE COVERAGE
- PAC-10 PNEUMATIC TUBING
- FIELD PIPING
- FIELD WIRING NOT BY STRIEVOR
- DUCT NOZZLE MAX PERIMETER
- PLENUM NOZZLE MAX PLENUM LENGTH
- APPLIANCE NOZZLE AND HEIGHT
- DOWNWARD FACING NOZZLE
- ANGLED NOZZLE AND TARGET LOCATION

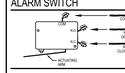
NMCH3 CONTROL HEAD (PART #551203) & ELECTRICAL WIRING

ELECTRICAL SWITCH (PART # 551154)

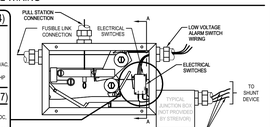


- QUANTITY: 3
- SWITCH IS RATED AT 250 VAC, 21A RESISTIVE; 250 VAC, 2 HP; 125 VAC, 1 HP
- FIRE SUPPRESSION SYSTEM TO BE FIELD WIRED INTO BUILDING FIRE ALARM SYSTEM (BY OTHERS).

ALARM SWITCH (PART # 550077)

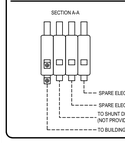


- QUANTITY: 1
- SWITCH IS RATED AT 28 VDC, 50 mA
- FIRE SUPPRESSION SYSTEM TO BE FIELD WIRED INTO BUILDING FIRE ALARM SYSTEM (BY OTHERS).



- EXCEPT FOR ALARM INITIATING SWITCH, NO ELECTRICAL CONNECTIONS ARE TO BE MADE INSIDE THE CONTROL HEAD ENCLOSURE.

ELECTRICAL SWITCH WIRING



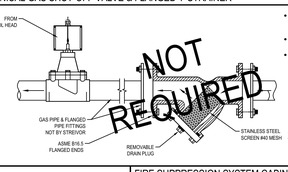
- REFER TO NFPA 96 CODES 8.3.2 & 10.4.1 FOR MORE INFORMATION
- ALL WIRING TO BE NORMALLY OPEN (NO) PROVIDED BY STREIVOR)
- EXCEPT FOR ALARM INITIATING SWITCH, NO ELECTRICAL CONNECTIONS ARE TO BE MADE INSIDE THE CONTROL HEAD ENCLOSURE.

RESET RELAY

- REFER TO MANUAL RESET RELAY INSTRUCTIONS FOR MORE INFORMATION

MECHANICAL GAS SHUT-OFF VALVE & FLANGED Y-STRAINER

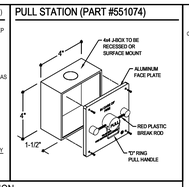
(SEE MEP DRAWINGS FOR LOCATION)



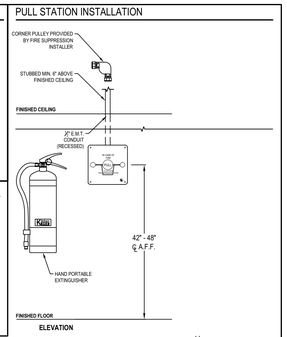
- GAS SHUT-OFF VALVE(S) TO BE SIZED AND LOCATED PER MEP DRAWINGS
  (MAXIMUM VALVE SIZE: 3" NPT)
- VALVE(S) AND STRAINERS TO BE INSTALLED BY DIVISION 22 (PLUMBING)
- Y-STRAINER REQUIRED FOR THE PROTECTION OF THE GAS VALVE. INSTALL A Y-STRAINER ON THE INLET SIDE OF THE GAS VALVE (AS CLOSE AS POSSIBLE).

Y-STRAINER NOT PROVIDED BY STREIVOR UNLESS SPECIFICALLY INCLUDED IN PURCHASE ORDER.

PULL STATION (PART #551074)



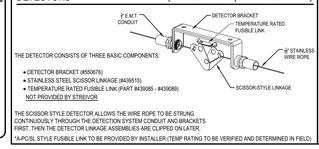
PULL STATION INSTALLATION



ELEVATION

DETECTORS

(Series #435546 | Terminal #435547)



THE DETECTOR CONSISTS OF THREE BASIC COMPONENTS:

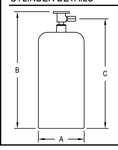
- DETECTOR BRACKET (#550676)
- STAINLESS STEEL SCISSOR LINKAGE (#439515)
- TEMPERATURE RATED FUSIBLE LINK (PART #435085 - #439089)

NOT PROVIDED BY STREIVOR

THE SCISSOR STYLE DETECTOR ALLOWS THE WIRE ROPE TO BE STRUNG CONTINUOUSLY THROUGH THE DETECTION SYSTEM CONDUIT AND BRACKETS FIRST. THEN THE DETECTOR LINKAGE ASSEMBLIES ARE CLIPPED ON LATER.

*A-PC/SL STYLE FUSIBLE LINK TO BE PROVIDED BY INSTALLER (TEMP RATING TO BE VERIFIED AND DETERMINED IN FIELD)

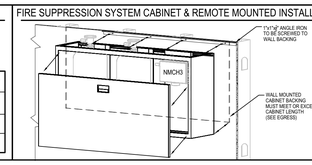
CYLINDER DETAILS



*CYLINDERS COME PRE-FILLED WITH EXTINGUISHING AGENT AND ARE CHARGED WITH DRY NITROGEN TO A PRESSURE OF 225 PSIG @ 70° F (15.5 BAR @ 21° C).

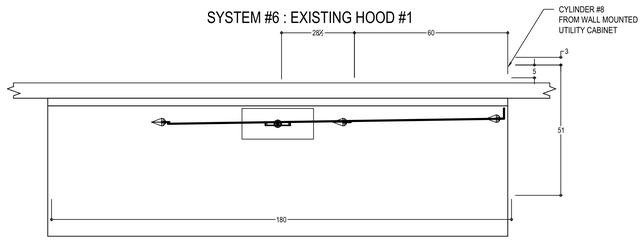
MODEL NO.	A	B	C	WEIGHT
PLC-160 (PART #550163)	8.00 IN	17.75 IN	15.44 IN	34 LBS.
PLC-300 (PART #551194)	8.00 IN	25.06 IN	22.75 IN	53 LBS.
PLC-460 (PART #551193)	10.00 IN	25.06 IN	22.75 IN	83 LBS.

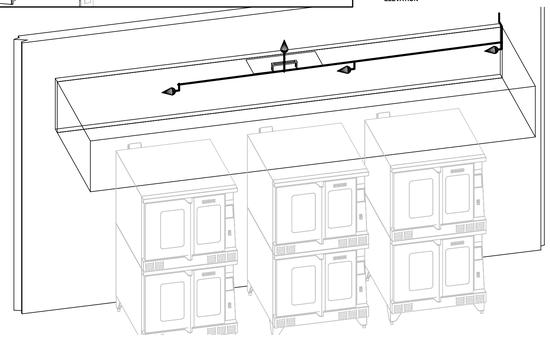
FIRE SUPPRESSION SYSTEM CABINET & REMOTE MOUNTED INSTALLATION

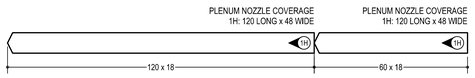


- 36" MINIMUM CLEARANCE REQUIRED IN FRONT OF THE REMOVABLE CABINET DOOR.
- SUPPORT BACKING REQUIRED IF CABINET MOUNTS TO WALL
- CABINET AND FIRE SUPPRESSION SYSTEM COMPONENTS APPROXIMATELY 100 LBS/FT. SEE PATH OF EGRESS DRAWING FOR CABINET DIMENSION(S).

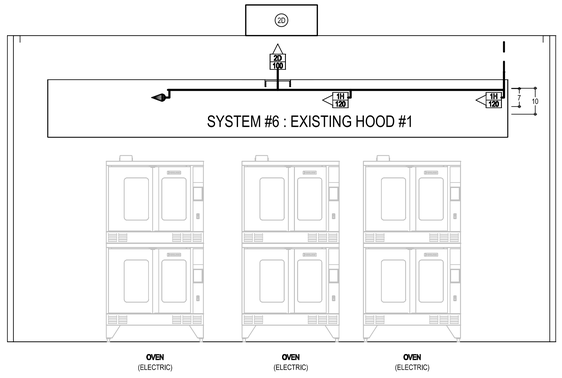
SYSTEM #6 : EXISTING HOOD #1







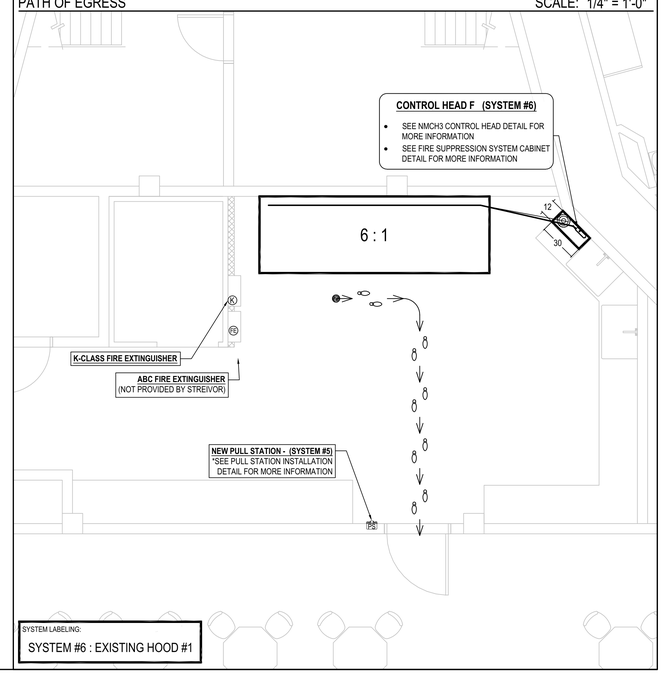
DUCT NOZZLE COVERAGE
2D: 100" PERIMETER



ALL FIRE SUPPRESSION SYSTEM PIPING TO BE FIELD INSTALLED BY A STREIVOR APPOINTED LICENSED FIRE SUPPRESSION SYSTEM INSTALLER

PATH OF EGRESS

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



SYSTEM LABELING:
SYSTEM #6 : EXISTING HOOD #1

INSTALLER:

GENERAL NOTES:

NOTES TO ARCHITECT AND/OR CONTRACTOR: STREIVOR, INC. (STREIVOR AIR SYSTEMS, STREIVOR STAINLESS) IS A SPECIALIST IN THE LAYOUT AND DESIGN OF KITCHEN VENTILATION SYSTEMS, AND IN NO WAY PURPORTS TO BE ARCHITECTS OR ENGINEERS.

THIS PLAN IS SUBMITTED FOR THE CONVENIENCE OF THE ARCHITECT AND/OR CONTRACTOR AND IS DONE FROM AVAILABLE ARCHITECTURAL INFORMATION. ALL MEASUREMENTS ARE SUBJECT TO PHYSICAL VERIFICATION AND ANY DEVIATIONS OR DISCREPANCIES SHALL BE DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN WRITING.

STREIVOR, INC. ACCEPTS NO RESPONSIBILITY FOR WORK DONE BY SAID ARCHITECT OR GENERAL CONTRACTOR OR THEIR REPRESENTATIVES OR SUBCONTRACTORS, AND WILL NOT STAND ANY EXPENSE FOR CHANGES MADE NECESSARY DUE TO LOCAL BUILDING CODES, ORDINANCES, STRUCTURAL CONDITIONS, OR BY ANY SUBSTITUTIONS OR CHANGES IN EQUIPMENT SHOWN ON THIS PLAN.

ANY ERRORS, AMBIGUITIES OR OMISSIONS IN THIS PLAN OR SPECIFICATIONS SHALL BE REPORTED TO STREIVOR, INC. FOR CORRECTIONS BEFORE ANY OF THE WORK IS STARTED. UNLESS EXPRESSLY STIPULATED, NO ADDITIONAL ALLOWANCE WILL BE MADE IN FAVOR OF THE OWNER OR CONTRACTOR BY VIRTUE OF ERROR, AMBIGUITY OR OMISSION WHICH MAY EXIST IN THE INFORMATION PROVIDED BY STREIVOR FOR ESTIMATES AND DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN A TIMELY MANNER.

STREIVOR™ AIR SYSTEMS

"STRIVING FOR EXCELLENCE"

2150 KITTY HAWK ROAD, LIVERMORE, CA 94551
PHONE: (925) 960-9090 FAX:(925) 960-9055
WWW.STREIVOR.COM

CUSTOMER APPROVAL

COOKING EQUIPMENT VERIFICATION

VERIFY THE FOLLOWING:

HIGH BACK SHELVES	YES ☐	NO ☐
RANGE COOKING SURFACE DEPTH GREATER THAN 28"	YES ☐	NO ☐
PULL STATION LOCATION(S)	YES ☐	NO ☐
UTILITY CABINET LOCATION(S)	YES ☐	NO ☐
AGENT DISTRIBUTION HOSE AND RESTRAINING CABLE KIT	YES ☐	NO ☐
CEILING HEIGHT	___'-___"	

APPROVED BY DATE

NOTE TO REVIEWER:
ANY CHANGES IN COOKING EQUIPMENT SUCH AS EQUIPMENT POSITION, TYPE AND/OR INCREASE IN ENERGY OUTPUT MAY EFFECT EXHAUST AIRFLOW. STREIVOR AIR SYSTEMS MUST BE NOTIFIED OF ANY CHANGES THAT OCCUR PRIOR TO FABRICATION. A RE-ENGINEERING OF THE EXHAUST SYSTEM MAY BE REQUIRED. ADDITIONAL COSTS DUE TO FOR FIRE SUPPRESSION PRE-TEST IS NOT INCLUDED UNLESS SPECIFICALLY LISTED IN QUOTE.

PROJECT:

CDCR PELICAN BAY

5905 LAKE EARL DRIVE
CRESCENT CITY, CA 95531

THE MARSHALL ASSOCIATES

ITEM #:	54
SYSTEM #:	6
HOOD #:	53
DATE:	04/11/2023
DRAWN BY:	KCS
CHECKED BY:	SWB
CONSULTANT:	THE MARSHALL ASSOCIATES
SCALE: (UNLESS OTHERWISE NOTED)	1/2" = 1' - 0"
1" BAR DOES NOT MEASURE 1" THIS DRAWING IS NOT SCALED TO SCALE	

	DESCRIPTION	DATE	INT.
1	PLAN CHECK COMMENTS	03/19/24	KCS
2	---	--/--/--	---
3	---	--/--/--	---
4	---	--/--/--	---
5	---	--/--/--	---

DRAWING:

F-07

SHEET 07 OF 11

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CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

The Marshall Associates, Inc.
Foodservice & Laundry Consultants/Designers
3000 Danville Blvd Suite F-344 Alamo, CA 94507
2129 4th Street Santa Rosa, CA 95404
415/677-1200 Fax 415/677-1210

STATE OF CALIFORNIA
DEPARTMENT OF CORRECTIONS AND REHABILITATION

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
11/04/24
23-5898
Approval of this plan does not authorize or approve any omission or deviation from applicable requirements. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

REV.	DATE:	DESCRIPTION

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS
Project No.: 5882.00

HIBSER YAMAUCHI Architects, Inc.
4602 2nd Street, Suite #3
Davis, CA 95616
530.758.1270 office
530.758.4789 fax

LICENSED ARCHITECT
KEITH W. YAMAUCHI
C-26566
02-28-2025
RENEWAL DATE
STATE OF CALIFORNIA

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

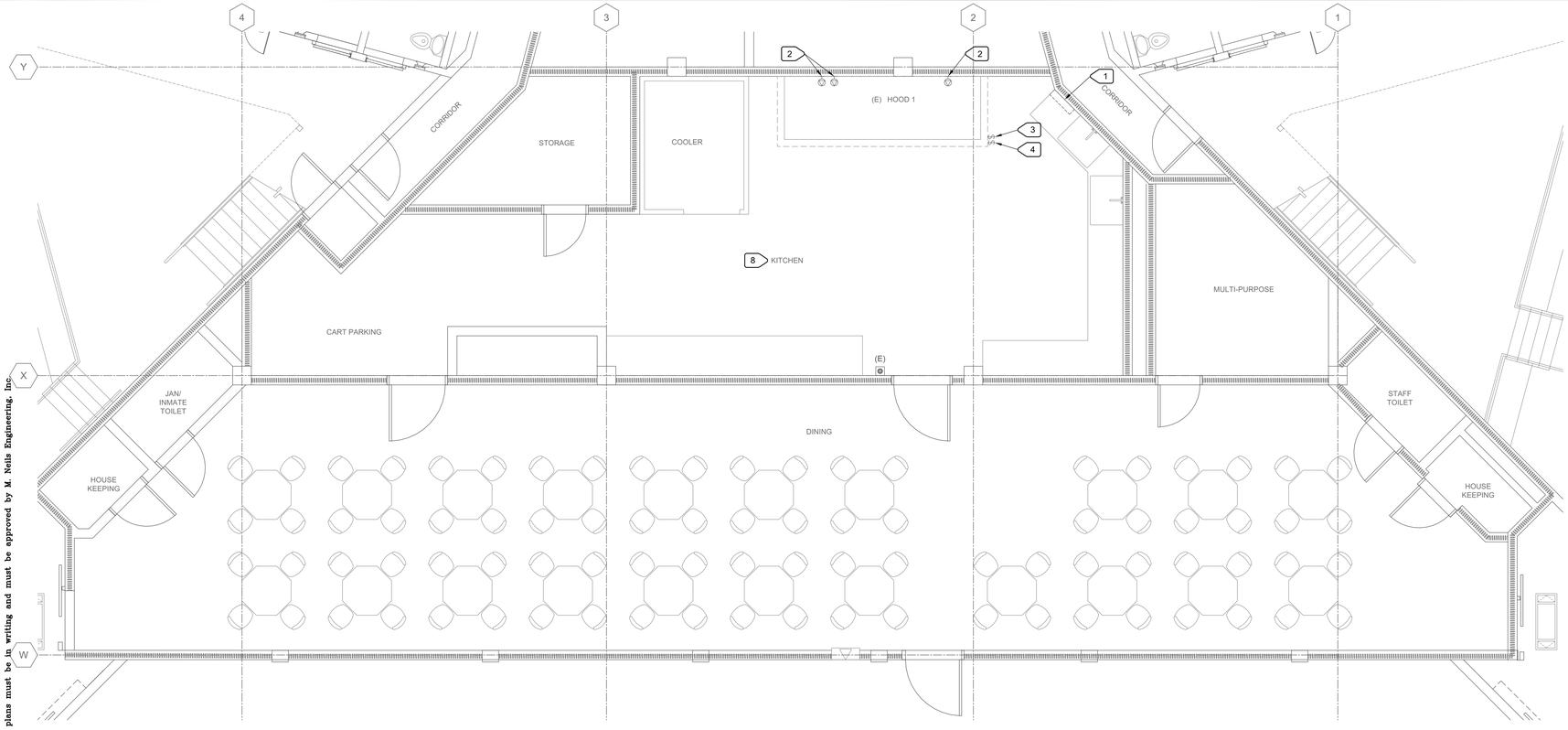
SHEET TITLE: BUILDING H03 A3 - ADMIN BUILDING FIRE SUPPRESSION MFR PLAN

CDCR Project Nos.: 20-0334

SHEET NUMBER

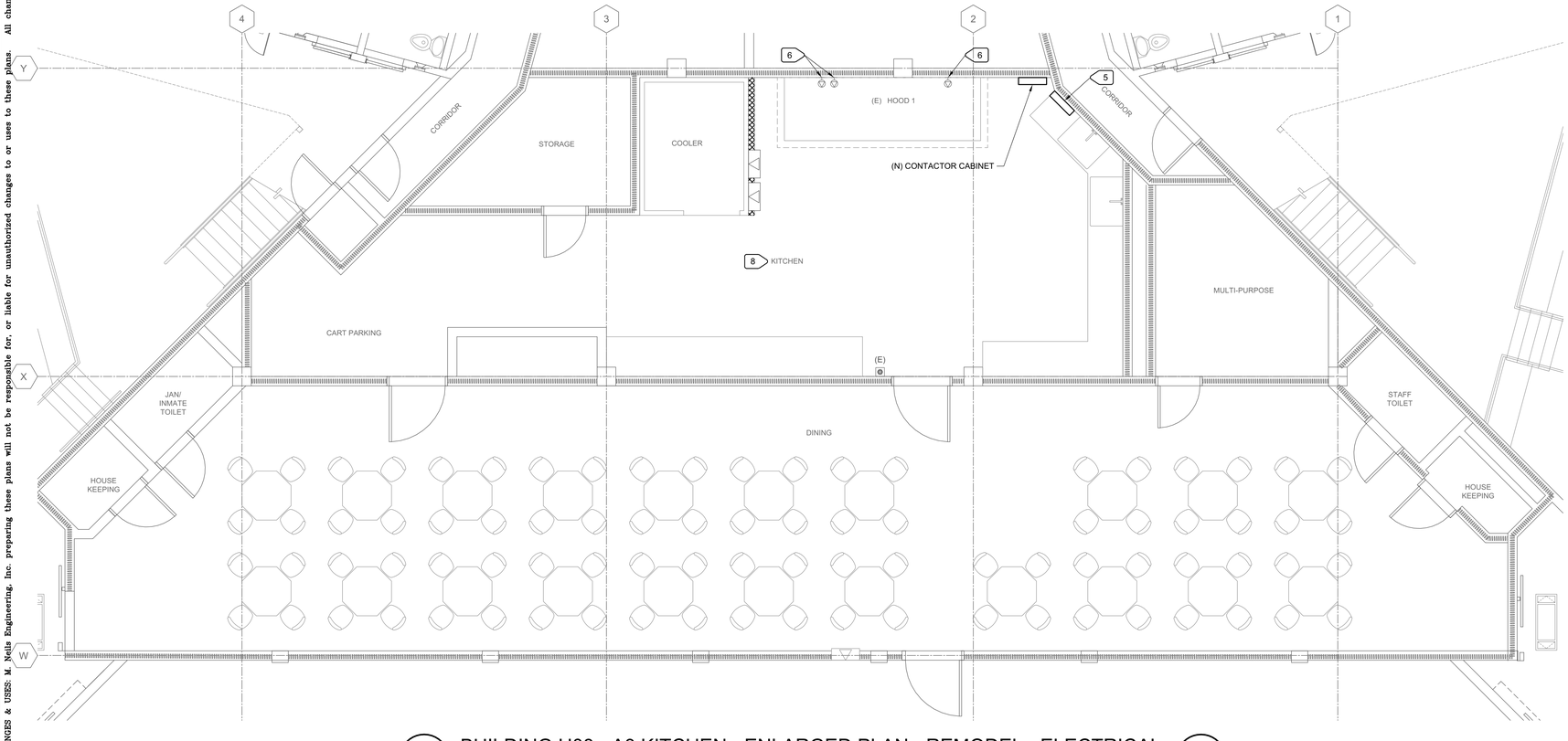
FS-G1.3

V3



1 E-G1.1 BUILDING H03 - A3 KITCHEN - ENLARGED PLAN - DEMOLITION - ELECTRICAL

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

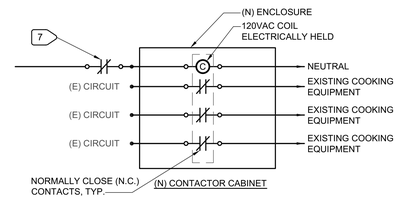


2 E-G1.1 BUILDING H03 - A3 KITCHEN - ENLARGED PLAN - REMODEL - ELECTRICAL

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

NUMBERED NOTES

1. EXISTING FIRE SUPPRESSION SYSTEM CONTROL PANEL TO BE REMOVED. DISCONNECT EXISTING 120V POWER CIRCUIT AND FIRE ALARM MONITORING CIRCUIT AND PROTECT FOR CONNECTION TO NEW PANEL.
2. EXISTING EQUIPMENT POWER RECEPTACLE TO REMAIN.
3. EXISTING HOOD LIGHT SWITCH TO REMAIN.
4. EXISTING HOOD FAN SWITCH TO REMAIN.
5. NEW FIRE SUPPRESSION SYSTEM CONTROL PANEL. RECONNECT TO EXISTING 120V POWER CIRCUIT AND FIRE ALARM MONITORING CIRCUIT. SEE DETAIL "1/E-0.1" ON SHEET E-0.1".
6. LOCATE AND INTERCEPT EXISTING EQUIPMENT POWER CIRCUIT AND RE-ROUTE THROUGH NEW CONTACTOR. SEE DETAIL"3/E-G1.1".
7. WHEN THE NORMALLY CLOSED (N.C.) AUXILIARY CONTACT IN FIRE SUPPRESSION SYSTEM CONTROL PANEL IS OPEN, THE ELECTRICALLY HELD CONTROL COIL IS DE-ENERGIZED AND THE N.C. CONTACTORS ARE OPENED, DE-ENERGIZING THE EQUIPMENT UNDER THE HOOD.
8. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND RATING OF FIRE RATED WALLS.



3 E-G1.1 CONTACTOR CABINET DIAGRAM

NO SCALE

CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

REGISTERED PROFESSIONAL ENGINEER
JESSE U. BASTIAN
No. E20229
Exp. 03-31-25
ELECTRICAL
STATE OF CALIFORNIA

10/15/2024

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ENGINEERING, INC.
Electrical Engineers | Lighting Designers
100 Howe Ave., Suite 235N
Sacramento, CA 95825-8217
www.mneilsengineering.com
Tel: (916) 923-4400
PROJECT #: 22238.21
PROJECT MGR: Stuart Lindsay

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
11/04/24
23-8888
Approval of this plan does not authorize or approve any omission or deviation from applicable requirements. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

REV.	DATE:	DESCRIPTION

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS
Project No: 5892.00

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PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

SHEET TITLE: BUILDING H03 - A3 KITCHEN - ENLARGED PLANS - DEMOLITION AND REMODEL - ELECTRICAL

CDCR JOB No.: 20-034

SHEET NUMBER
E-G1.1

V3

UNAUTHORIZED CHANGES & USES: M. Neils Engineering, Inc. preparing these plans will not be responsible for, or liable for unauthorized changes to or uses to these plans. All changes to these plans must be in writing and must be approved by M. Neils Engineering, Inc.

Oct 15, 2024 – 2:30pm, / kerlo

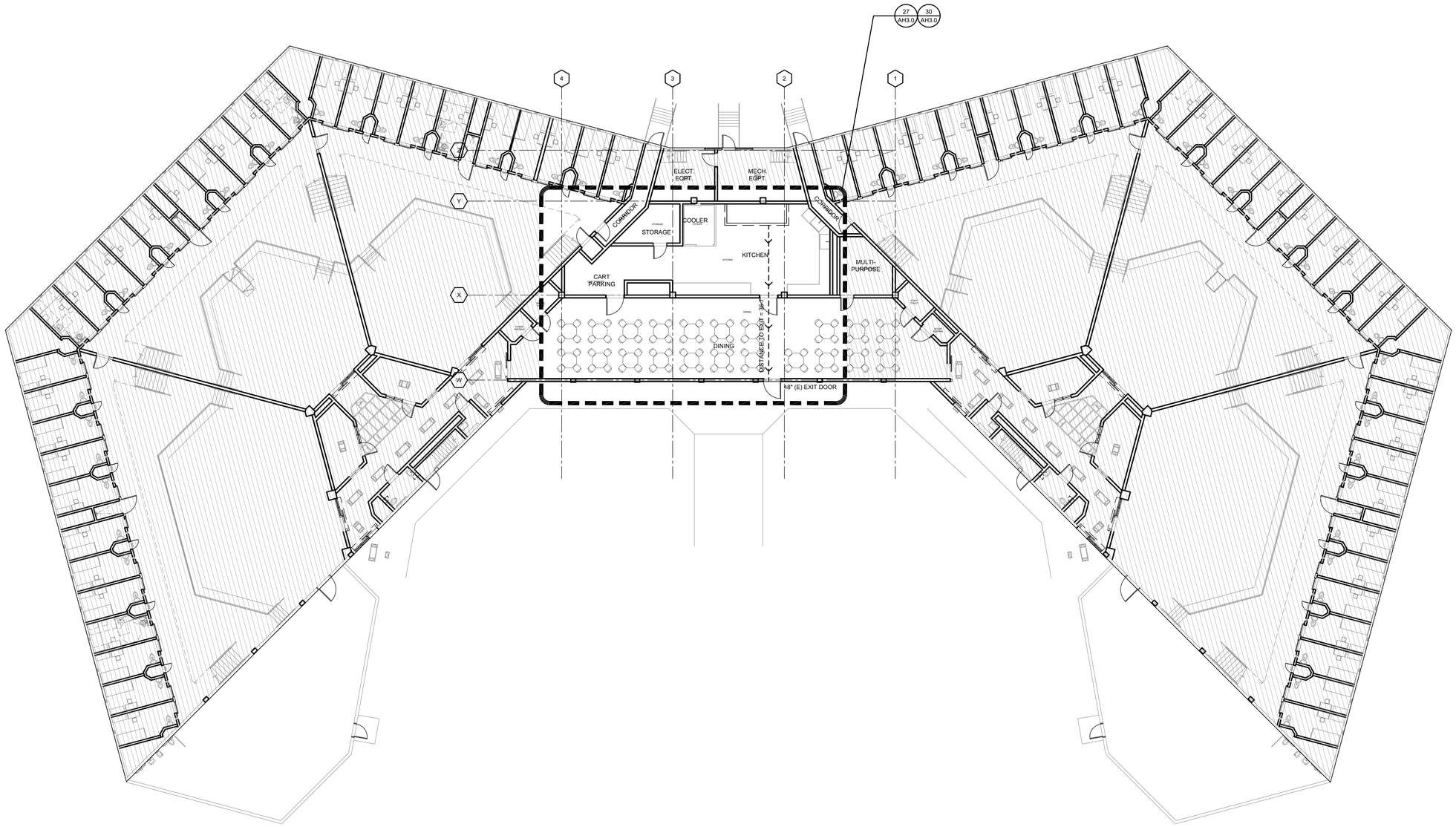
GENERAL NOTES

1. DESIGN, FURNISH, INSTALL AND TEST NEW FIRE SYSTEM.
2. FIELD VERIFY ALL EXISTING CONDITIONS AS NECESSARY FOR THE WORK. DRAWINGS WERE PRODUCED FROM FIELD NOTES.
3. NEW SUPPRESSION MANUAL PULL STATION TO BE WITHIN THE KITCHEN ROOM, BETWEEN 10FT TO 20FT FROM THE HOOD AND IN ROUTE THE EXIT DOOR.
4. NEW (K) CLASS FIRE EXTINGUISHER TO BE WITHIN 30FT FROM THE HOOD. IF NEEDED PROVIDE A SECOND EXTINGUISHER AS SHOWN IN DRAWINGS.
5. AFTER CONSTRUCTION IS COMPLETE, REPAIR ADJACENT SURFACES TO MATCH EXISTING IN PRE-CONSTRUCTION CONDITION. SEE DRAWINGS TO ENSURE PROPER FIRE RATING IS MAINTAINED.
6. NEW PULL STATIONS TO BE INSTALLED WITH OPERABLE PARTS NOT HIGHER THAN 48" AFF. PROVIDE ACCESSIBLE CLEARANCE IN FRONT OF THE PULL STATION.
7. NEW FIRE EXTINGUISHERS TO BE MOUNTED IN A CABINET WITH TOP SET AT 48" MAX. AFF. FOR RECESSED CABINET INSTALL SO IT DOES NOT PROTRUDE MORE THAN 4" OUT OF THE WALL, UON.
8. THE REMOVAL OF CONDUIT OR PIPING SHALL BE SEALED WITH LISTED OR EQUIVALENT LIQUID TIGHT SEALING DEVICES. (NFPA 96 SECTION: 10.2.7.2)
9. FOR STRUCTURAL ANCHORAGE FOR KITCHEN EQUIPMENT SEE SHEET S9.0 AND S9.1

LEGEND

AREA NOT IN SCOPE

PATH OF TRAVEL TO EXIT



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30 BUILDING H04 - A4 KITCHEN - OVERALL PLAN
SCALE: 3/32" - 1'-0"

9/27/2023 5:48 PM

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FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS
Project No: 5892.00

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C-26566
02-28-2025
RENEWAL DATE
STATE OF CALIFORNIA

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

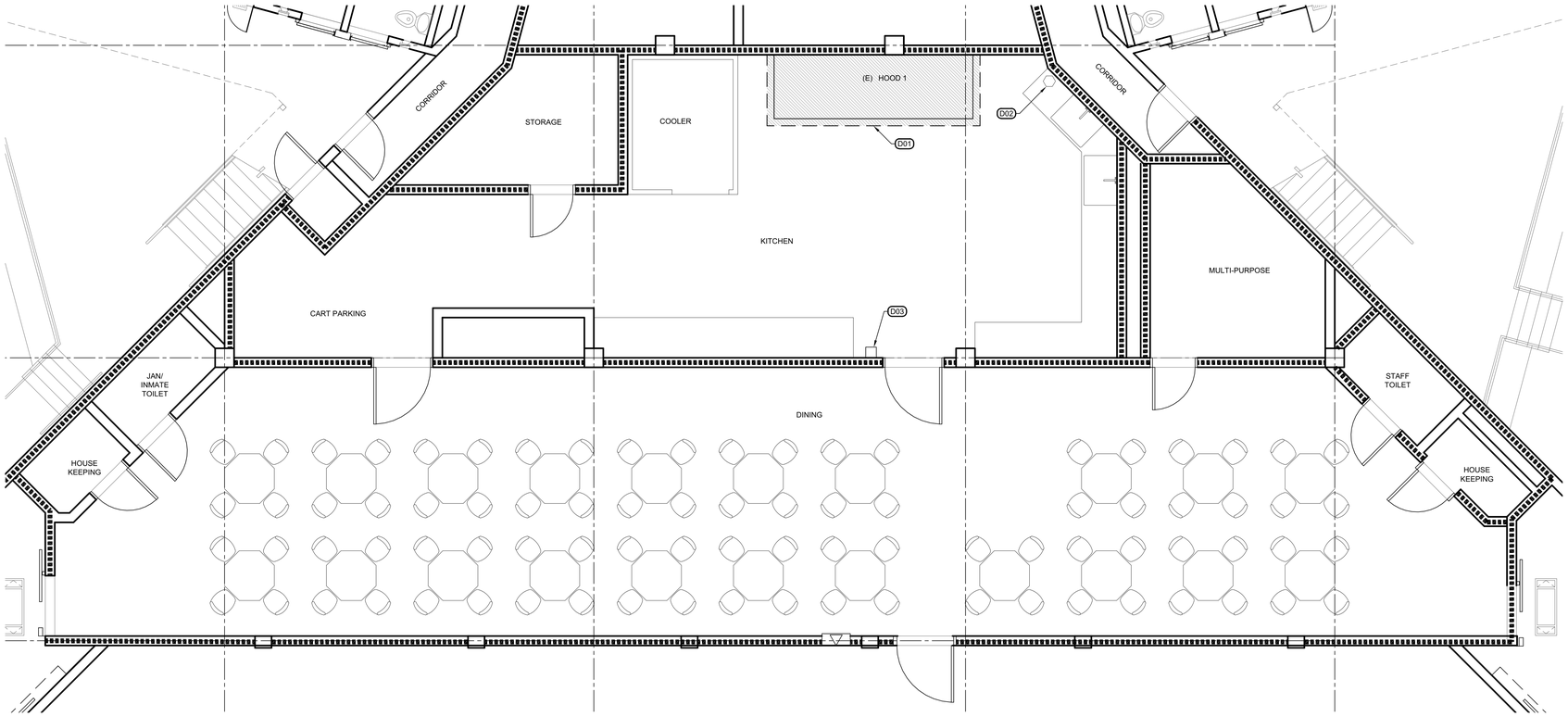
DATE: JULY 19, 2024

SHEET TITLE: BUILDING H04 A4 KITCHEN OVERALL PLAN

CDCR JOB Nos.: 20-034 5892

SHEET NUMBER
AH2.0

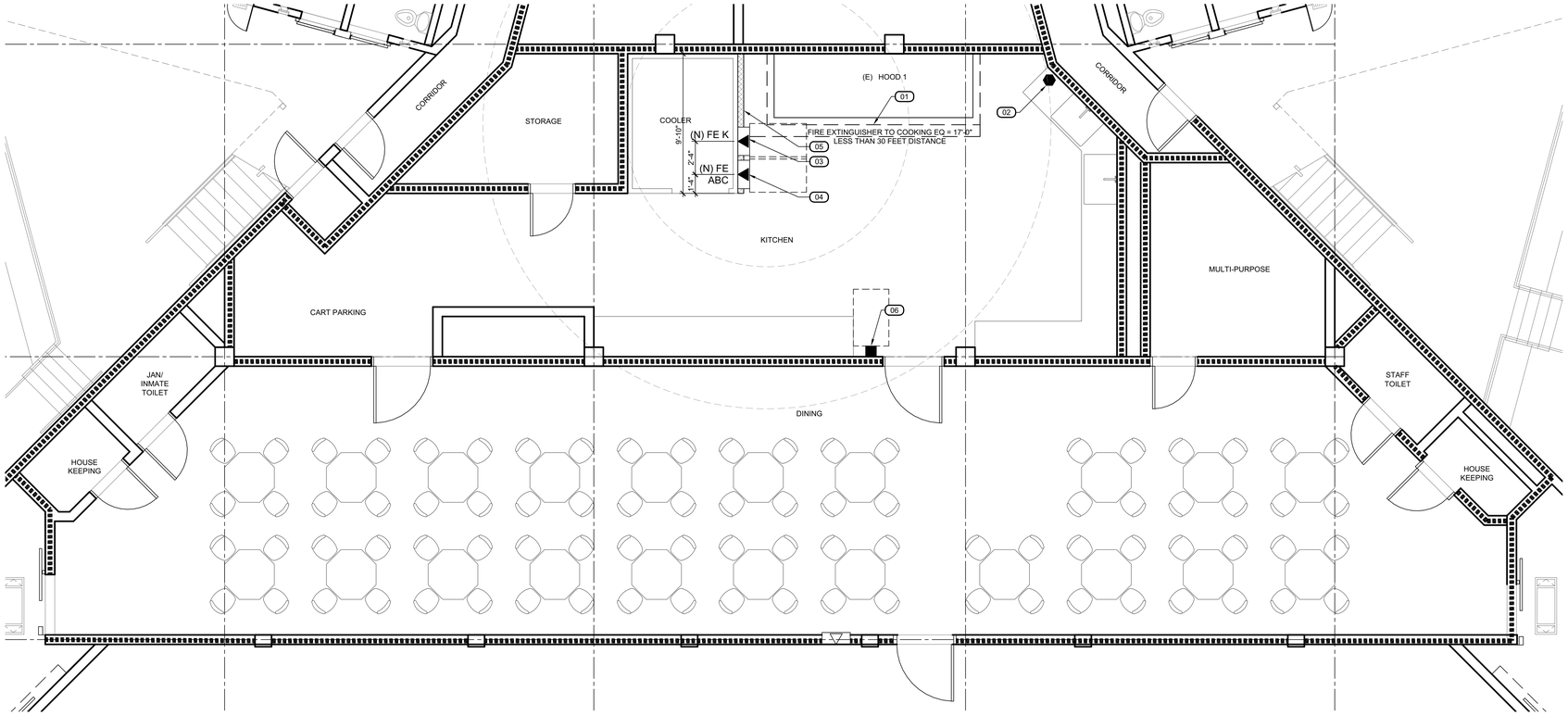
V3



27 BUILDING H04 - A4 KITCHEN, ENLARGED PLAN - DEMOLITION

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

GRAPHIC SCALE: 0 1' 2' 4' 8' 12' — 1/4" = 1'-0"



30 BUILDING H04 - A4 KITCHEN, ENLARGED PLAN - REMODEL

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

GRAPHIC SCALE: 0 1' 2' 4' 8' 12' — 1/4" = 1'-0"

GENERAL NOTES

1. DESIGN, FURNISH, INSTALL AND TEST NEW FIRE SYSTEM.
2. FIELD VERIFY ALL EXISTING CONDITIONS AS NECESSARY FOR THE WORK. DRAWINGS WERE PRODUCED FROM FIELD NOTES.
3. NEW SUPPRESSION MANUAL PULL STATION TO BE WITHIN THE KITCHEN ROOM, BETWEEN 10FT TO 20FT FROM THE HOOD AND IN ROUTE THE EXIT DOOR.
4. NEW (K) CLASS FIRE EXTINGUISHER TO BE WITHIN 30FT FROM THE HOOD. IF NEEDED PROVIDE A SECOND EXTINGUISHER AS SHOWN IN DRAWINGS.
5. AFTER CONSTRUCTION IS COMPLETE, REPAIR ADJACENT SURFACES TO MATCH EXISTING IN PRE-CONSTRUCTION CONDITION. SEE DRAWINGS TO ENSURE PROPER FIRE RATING IS MAINTAINED.
6. NEW PULL STATIONS TO BE INSTALLED WITH OPERABLE PARTS NOT HIGHER THAN 48" AFF. PROVIDE ACCESSIBLE CLEARANCE IN FRONT OF THE PULL STATION.
7. NEW FIRE EXTINGUISHERS TO BE MOUNTED IN A CABINET WITH TOP SET AT 48" MAX. AFF. FOR RECESSED CABINET INSTALL SO IT DOES NOT PROTRUDE MORE THAN 4" OUT OF THE WALL, UON.
8. THE REMOVAL OF CONDUIT OR PIPING SHALL BE SEALED WITH LISTED OR EQUIVALENT LIQUID TIGHT SEALING DEVICES. (NFPA 96 SECTION: 10.2.7.2)
9. FOR STRUCTURAL ANCHORAGE FOR KITCHEN EQUIPMENT SEE SHEET S9.0 AND S9.1

WALL LEGEND

(N) FURRING WALL. SEE DETAIL 12/A9.0

(E) CMU WALL

DEMOLITION LEGEND

EXISTING KITCHEN HOOD TO REMAIN. ANSUL SYSTEM TO BE REPLACED. SEE FS DRAWINGS FOR DETAILS AND EQUIPMENT LAYOUT.

FSS — (E) FIRE SUPPRESSION SYSTEM CONTROL BOX

FEC — (E) FIRE EXTINGUISHING CABINET WITH FIRE HOSE AND FIRE EXTINGUISHER INSIDE.

PS — (E) PULL STATION LOCATION AND SIGN INDICATING ANSUL SYSTEM NUMBER. SEE GENERAL NOTES AND FS DRAWINGS.

FE (ABC) — (E) ABC-CLASS PORTABLE FIRE EXTINGUISHER

REMODEL LEGEND

FSS — (N) FIRE SUPPRESSION SYSTEM CONTROL BOX

DISTANCE (30 FEET MAXIMUM UNOBSTRUCTED FROM COOKING EQUIPMENT TO FIRE EXTINGUISHER.

FE (ABC) — (N) ABC-CLASS PORTABLE FIRE EXTINGUISHER

FE (K) — (N) K-CLASS PORTABLE FIRE EXTINGUISHER

DEMOLITION KEYNOTES

D01 (E) KITCHEN HOOD TO REMAIN. ANSUL SYSTEM TO BE REPLACED. SEE FS DRAWINGS .

D02 (E) FIRE SUPPRESSION SYSTEM CONTROL BOX TO BE REPLACED. SEE FS DRAWING.

D03 REMOVE (E) PULL STATION. PATCH, REPAIR AND PAINT ADJACENT SURROUNDINGS TO MATCH (E) CONDITIONS.

REMODEL KEYNOTES

01 ANSUL SYSTEM TO BE REPLACED. SEE FS DRAWINGS FOR DETAILS AND EQUIPMENT LOCATIONS.

02 (N) FIRE SUPPRESSION SYSTEM CONTROL BOX. SEE FS DRAWINGS.

03 (N) RECESSED FIRE EXTINGUISHER CABINET EQUIPPED W/K CLASS FIRE EXTINGUISHER. SEE DETAIL 1/A9.0 & FS DRAWINGS FOR SIZING

04 (N) RECESSED FIRE EXTINGUISHER CABINET EQUIPPED W/ ABC CLASS FIRE EXTINGUISHER, SIZE 2A. SEE DETAIL 1/A9.0

05 (N) FURRING WALL, SEE DETAIL 12/A9.0

06 (N) PULL STATION. SEE FS DRAWINGS. ENSURE MIN. 15" CLEARANCE BETWEEN CENTER OF PULL STATION AND COUNTER FOR ADA ACCESS

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STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project No: 5892.00
Project Phase: FINAL DRAWINGS

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02-28-2025
RENEWAL DATE
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REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

SHEET TITLE: BUILDING H04, A4 KITCHEN
ENLARGED PLANS - DEMOLITION AND REMODEL

CDCR Job No.: 20-034

SHEET NUMBER
AH3.0

V3

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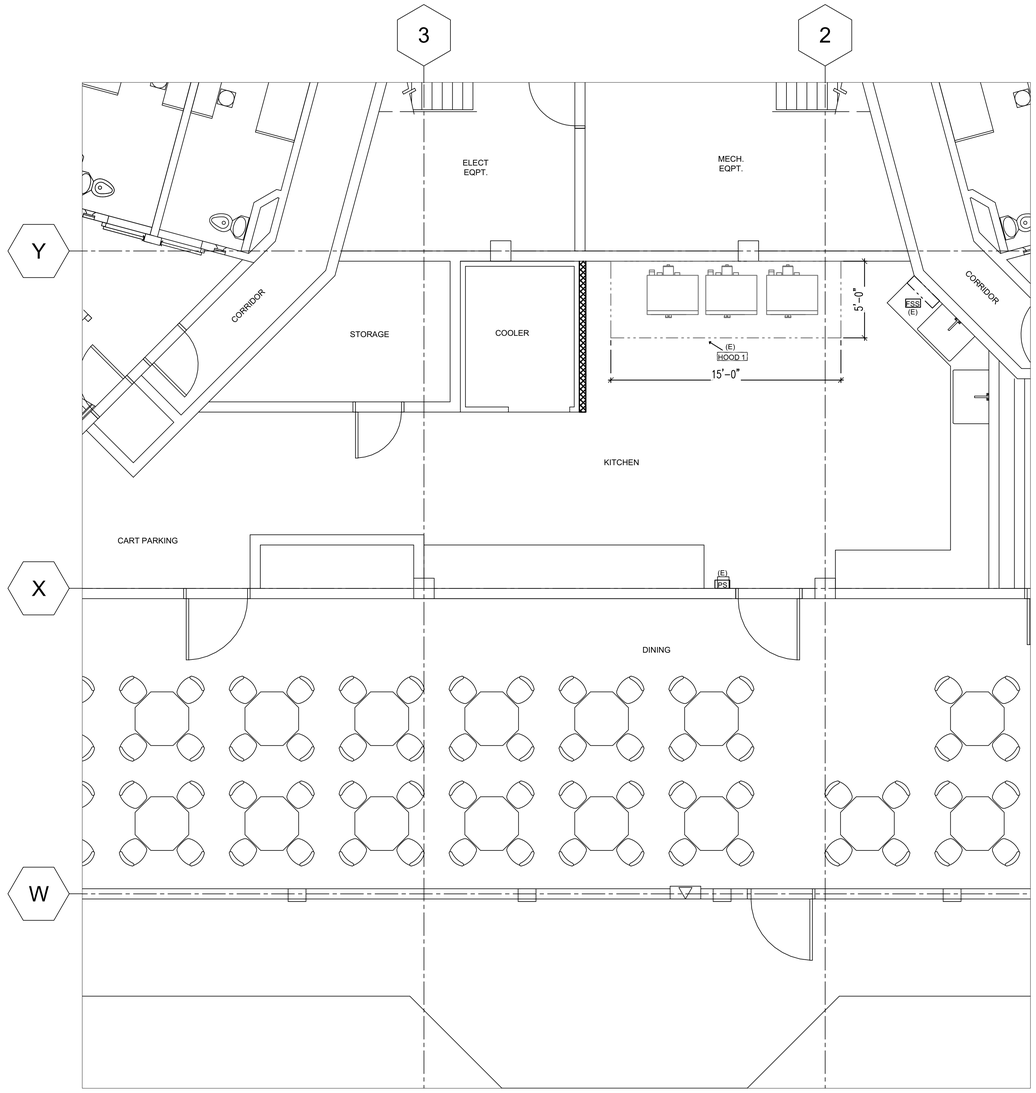

30 BLDG H04 A4 HOUSING UNIT - FIRE SUPPRESSION DEMO PLAN

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

GENERAL NOTES:

A. ALL EQUIPMENT TO HAVE NSF, ETL SANITATION OR UL SANITATION APPROVALS.

B. INSTALLATION TO MEET CALIFORNIA RETAIL FOOD CODE (CRFC) LATEST EDITION.

FIRE SUPPRESSION CONTRACTOR TO:

A. REMOVE EXISTING FIRE SUPPRESSION SYSTEM AND ALL COMPONENTS.

B. REFER TO ARCHITECTURAL DRAWING SHEET NOTES FOR NOTES AND GUIDELINES REGARDING EXISTING CONDITION GUIDELINES

SYMBOLS

(E) FSS EXISTING FIRE SUPPRESSION SYSTEM; TO BE REMOVED

(E) PS EXISTING FIRE PROTECTION PULL BOX; TO BE REMOVED

CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

The Marshall Associates, Inc.
Foodservice & Laundry Consultants/Designers
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2129 4th Street Santa Rosa, CA 95404
415/677-1200 Fax 415/677-1210

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Project No: 5892.00

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02-28-2025
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STATE OF CALIFORNIA

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REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

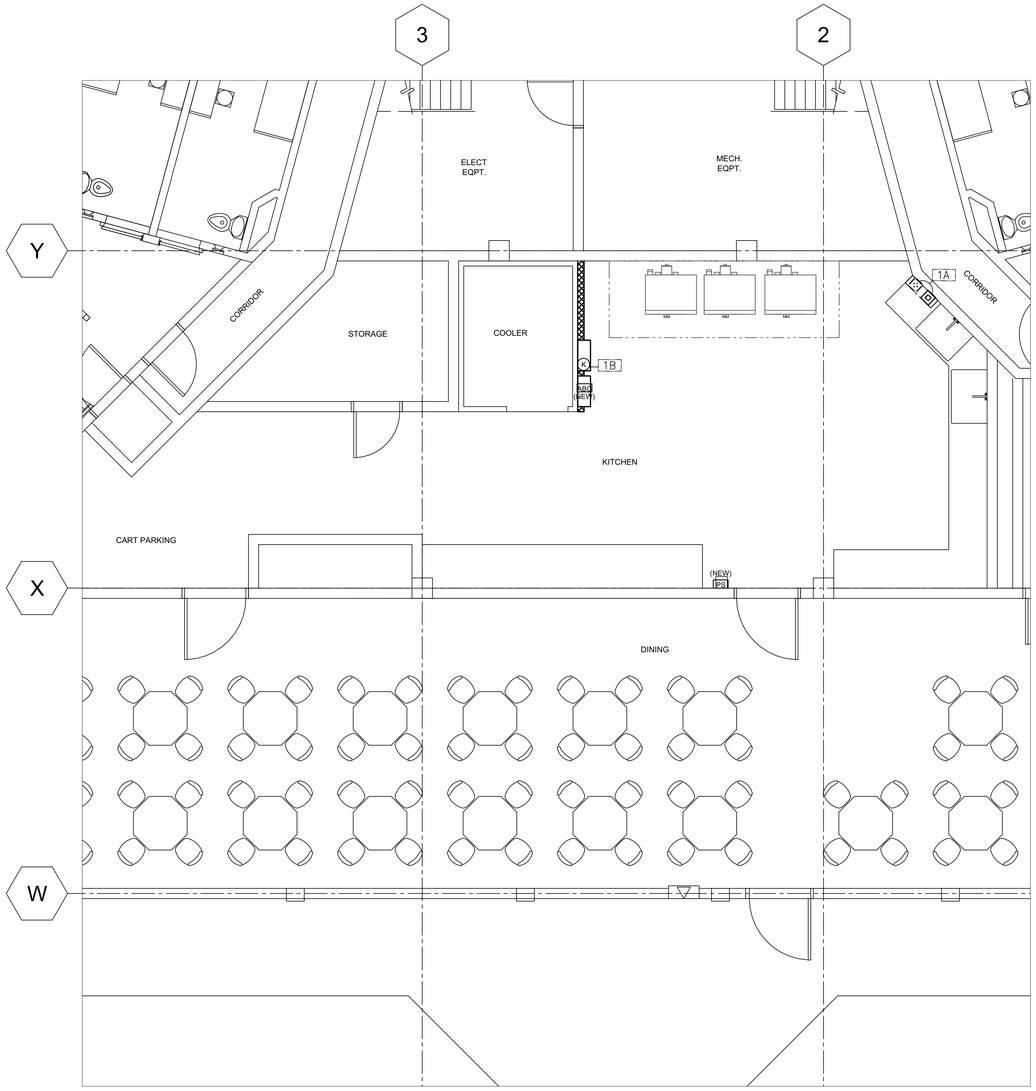
DATE: JULY 19, 2024

SHEET TITLE: BUILDING H04 - A4 KITCHEN
FIRE SUPPRESSION DEMO PLAN

CDCR 20-034
Job Nos.:

SHEET NUMBER
FS-H1.1

V3



30 BLDG H04 A4 HOUSING UNIT - FIRE SUPPRESSION NEW EQUIPMENT PLAN

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

EQUIPMENT SCHEDULE

ITEM	QTY	DESCRIPTION	MANUFACTURER	MODEL NUMBER	NOTES
1	1	EXHAUST HOOD (TYPE-I)	EXISTING; IN PLACE	NOT PART OF FSEC CONTRACT	NIC
1A	1	FIRE PROTECTION SYSTEM	STREVOR AIR SYSTEMS	PYRO-CHEM KITCHEN KNIGHT II	
1B	1	CLASS K FIRE EXTINGUISHER	BUCKEYE	WC-6L	
A	3	ELECTRIC CONVECTION OVEN	VULCAN (EXISTING)	ER-10 (EXISTING)	NIC
B	1	14 GA S/S WALL FLASHING	EXISTING	NOT PART OF FSEC CONTRACT	NIC

ABBREVIATIONS:

FSEC	FOODSERVICE EQUIPMENT CONTRACTOR
S/S	STAINLESS STEEL
NIC	NOT IN CONTRACT
CKT	CIRCUIT

ELECTRICAL ROUGH-IN

ITEM	QTY	DESCRIPTION	CONNECTED LOAD							CONNECTION TYPE		
			120/1	120/208/1	120/208/3	208/1	208/3	480/3	HT	C&P	RECP	HW
1	1	EXHAUST HOOD (TYPE-I)										
1A	1	FIRE PROTECTION SYSTEM	20A CKT						FA			*
1B	1	CLASS K FIRE EXTINGUISHER										

ABBREVIATIONS:

C&P	CORD AND PLUG	CKT	CIRCUIT
RECP	RECEPTACLE	E	EXISTING
HW	HARDWIRE		
HT	HEIGHT		
FA	FROM ABOVE		

SCHEDULE / DRAWING NOTES:

CONNECTED LOAD = EACH CONNECTION SHOWN ON DRAWING

CONNECTION TYPES PROVIDED BY ELECTRICAL DIVISION

S O S

FIRE SUPPRESSION CONTRACTOR TO PROVIDE:

A. WORK AS DESCRIBED IN CONTRACT DOCUMENTS AND SUPPLEMENTAL REQUIREMENTS PER FIRE SUPPRESSION EQUIPMENT SECTION.

B. ROUGH-IN AND FINAL CONNECTION TO ALL FIRE SUPPRESSION EQUIPMENT AS INDICATED ON DRAWINGS AND IN ELECTRICAL ROUGH-IN SCHEDULE.

C. ALL JUNCTION-BOXES, ELECTRICAL OUTLETS, COVER PLATES, SWITCHES NOT BUILT INTO FIXTURES OR EQUIPMENT.

D. SHUNT TRIP CIRCUIT BREAKERS FOR ALL FOODSERVICE EQUIPMENT BELOW EXHAUST HOODS.

E. INCLUDE DORMONT POSI-SET CASTER PLACEMENT SAFETY SYSTEM FOR ALL EXISTING MOBILE COOKING EQUIPMENT BELOW EXISTING HOODS AFTER NEW FIRE SUPPRESSION SYSTEM HAS BEEN INSTALLED. SEE S9.1 FOR DETAIL

F. ALL OTHER EXISTING EQUIPMENT TO BE ANCHORED PER REQUIREMENTS SHOWN ON S9.1

INTERCONNECTION BETWEEN:

A. FIRE PROTECTION SYSTEM AND BUILDING LIFE SAFETY.

SYMBOLS

PS — NEW FIRE PROTECTION PULL BOX – OCTAGONAL BOX 48" AFF WITH CONDUIT TO CEILING

ABC — NEW ABC FIRE EXTINGUISHER SEE SHEET AA3.0 FOR MAKE/MODEL

K — NEW TYPE K FIRE EXTINGUISHER BUCKEYE; MODEL WC-6L

JUNCTION BOX ROUGH-IN

JUNCTION BOX CONNECTION PROVIDED IN EQUIPMENT

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Project No.: 5892.00

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02-28-2025
RENEWAL DATE
STATE OF CALIFORNIA

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REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

SHEET TITLE: BUILDING H02 - A2 KITCHEN
FIRE SUPPRESSION NEW EQUIPMENT PLAN

CDCR Job Nos.: 20-434

SHEET NUMBER

FS-H1.2

V3

LISTINGS & STANDARDS

THIS WET CHEMICAL EXTINGUISHING SYSTEM IS ENGINEERED TO PROVIDE FIRE PROTECTION FOR RESTAURANT HOODS, DUCTS AND COOKING APPLIANCES, IS **UL 300** LISTED AND IS TO BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS:

- NFPA 17A 2021 EDITION
- NFPA 10 2018 EDITION
- NFPA 96 2021 EDITION

SECTIONS & CODES

NFPA 10 2018 EDITION

(5.6.2) MAXIMUM TRAVEL DISTANCE SHALL NOT EXCEED 30 FT (9.1 M) FROM THE HAZARD TO THE EXTINGUISHER(S)

NFPA 17A 2021 EDITION

(5.2.1.10.1) EACH MANUAL ACTUATION DEVICE SHALL BE INSTALLED NO MORE THAN 48 IN. (1200 MM) AND NO LESS THAN 42 IN. (1067 MM) ABOVE THE FLOOR.

NFPA 96 2021 EDITION

(8.2.3.1) A HOOD EXHAUST FAN(S) SHALL CONTINUE TO OPERATE AFTER THE EXTINGUISHING SYSTEM HAS BEEN ACTIVATED UNLESS FAN SHUTDOWN IS REQUIRED BY A LISTED COMPONENT OF THE VENTILATION SYSTEM OR BY THE DESIGN OF THE EXTINGUISHING SYSTEM.

(8.2.3.2) THE HOOD EXHAUST FAN SHALL START UPON ACTIVATION OF THE EXTINGUISHING SYSTEM IF THE EXHAUST FAN AND ALL COOKING EQUIPMENT SERVED BY THE FAN HAVE BEEN SHUT DOWN, UNLESS FAN SHUTDOWN IS REQUIRED BY A LISTED COMPONENT OF THE VENTILATION SYSTEM OR BY THE LISTING OF THE EXTINGUISHING SYSTEM.

(8.3.2) WHEN THE FIRE-EXTINGUISHING SYSTEM ACTIVATES, MAKEUP AIR SUPPLIED INTERNALLY TO A HOOD SHALL BE SHUT OFF.

(10.4.1) UPON ACTIVATION OF ANY FIRE EXTINGUISHING SYSTEM FOR A COOKING OPERATION, ALL ~~SOURCES OF FUEL~~ AND ELECTRICAL POWER THAT PRODUCE HEAT TO ALL EQUIPMENT REQUIRING PROTECTION BY THAT SYSTEM SHALL AUTOMATICALLY SHUT OFF.

(10.4.3) ~~GAS APPLIANCE NOT REQUIRING PROTECTION BUT LOCATED UNDER VENTILATING EQUIPMENT WHERE PROTECTED APPLIANCES ARE LOCATED SHALL BE AUTOMATICALLY SHUT OFF UPON ACTIVATION OF THE EXTINGUISHING SYSTEM~~

(10.4.4) SHUTOFF DEVICE SHALL REQUIRE MANUAL RESETTING PRIOR TO FUEL / POWER BEING RESTORED

(10.5.1.1) AT LEAST ONE MANUAL ACTUATION DEVICE SHALL BE LOCATED IN A MEANS OF EGRESS OR AT A LOCATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.

(10.5.1.2) THE MANUAL ACTUATION DEVICE SHALL CLEARLY IDENTIFY THE HAZARD PROTECTED.

CMC 2022 EDITION

(513.5) ALL SYSTEMS SHALL HAVE BOTH AUTOMATIC AND MANUAL METHODS OF ACTUATION. AT LEAST ONE MANUAL ACTUATION DEVICE SHALL BE LOCATED IN A MEANS OF EGRESS OR AT A LOCATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.

INSTALLATION REQUIREMENTS

1. ALL PIPE SHALL BE SCHEDULE 40 BLACK IRON. CHROME PLATED/SLEEVED WHERE EXPOSED.
2. ALL CYLINDER SYSTEMS SHALL HAVE 3/8" SUPPLY LINES AND 3/8" BRANCH LINES.
3. ALL WIRE ROPE SHALL BE 1/16" STAINLESS STEEL AND RUN THROUGH 1/2" EMT CONDUIT.
4. U.L. LISTED CORNER PULLEYS REQUIRED WHENEVER THE STAINLESS STEEL CABLE DIRECTION CHANGES.
5. ALL EQUIPMENT WITH FIRE PROTECTION MUST BE SECURED TO FLOOR. (NOT BY STREIVOR)
6. SWIVEL ADAPTERS MAY BE ADDED TO NOZZLES FOR UP TO 30° ROTATION.

SYSTEM #7

PAGE NUMBERS REFERENCED FROM THE PYROCHEM FIRE SUPPRESSION SYSTEM TECHNICAL MANUAL

CABLE/LINE LIMITATIONS - CONTROL HEAD G

		LENGTH		PULLEYS	BRACKETS
FUSIBLE LINK (pg. 4-5)	MAXIMUM	150.00	FT	40	20
	ALLOTTED	20.00	FT	4	1*
PULL STATION(S) (pg. 4-9)	MAXIMUM	150.00	FT	40	N/A
	ALLOTTED	45.00	FT	2	N/A
GAS VALVE(S) (pg. 4-10)	MAXIMUM	100.00	FT	30	N/A
	ALLOTTED	--.--	FT	--	N/A

*ML STYLE FUSIBLE LINK INCLUDED WITH SYSTEM (NOT SUPPLIED BY STREIVOR). FUSIBLE LINK TEMPERATURE RATING TO BE VERIFIED AND DETERMINED IN FIELD.

CYLINDER #9

COVERAGE DESCRIPTION	NOZZLE	QTY.	FLOW POINTS	PAGE
DUCT	2D	1	2	3-1
PLENUM	1H	2	2	3-3

MODEL	FLOW POINTS			
PCL-300	4	ALLOTTED	10	MAXIMUM

TOTAL				FIRST TO LAST NOZZLE			
LENGTH**		VOLUME		LENGTH**		VOLUME	
36.00	FT	1350	ML	28.00	FT	1050	ML

CYLINDER #-

COVERAGE DESCRIPTION	NOZZLE	QTY.	FLOW POINTS	PAGE

MODEL	FLOW POINTS		
		ALLOTTED	MAXIMUM

TOTAL				FIRST TO LAST NOZZLE			
LENGTH**		VOLUME		LENGTH**		VOLUME	
FT		ML		FT		ML	

CYLINDER/PIPING LIMITATIONS

CYLINDER	FLOW POINTS	TOTAL				FIRST TO LAST NOZZLE			
		LENGTH*		VOLUME		LENGTH*		VOLUME	
PCL-460	15	69.33	FT	2600	ML	53.33	FT	2000	ML
PCL-460	14	90.67	FT	3400	ML	80.00	FT	3000	ML
PCL-300	10	50.93	FT	1910	ML	30.00	FT	1125	ML
PCL-160	5	40.00	FT	1500	ML	16.00	FT	600	ML

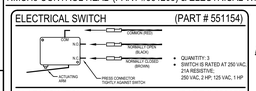
** CALCULATIONS BASED ON 3/8" PIPE (37.5 ML/FT) (SEE pg. 3-18)

LEGEND

- PATH OF EGRESS
- DETECTION LINE ROUTE
- K-CLASS FIRE EXTINGUISHER (NOT SUPPLIED BY STREIVOR)
- GAS VALVE
- PULL STATION
- RESET RELAY
- CONTROL HEAD
- DETECTOR BRACKET (FRONT VIEW)
- DETECTOR BRACKET (PLAN VIEW)
- NOZZLE COVERAGE
- PAC-10 PNEUMATIC TUBING
- FIELD PIPING
- FIELD WIRING NOT BY STRIEVOR
- DUCT NOZZLE MAX PERIMETER
- PLENUM NOZZLE MAX PLENUM LENGTH
- APPLIANCE NOZZLE AND HEIGHT
- DOWNWARD FACING NOZZLE
- ANGLED NOZZLE AND TARGET LOCATION

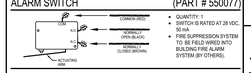
NMCH3 CONTROL HEAD (PART #551203) & ELECTRICAL WIRING

ELECTRICAL SWITCH (PART # 551154)

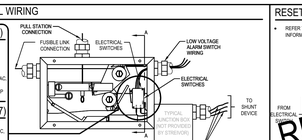


- QUANTITY: 3
- SWITCH IS RATED AT 250 VAC, 21A RESISTIVE; 250 VAC, 2 HP; 125 VAC, 1 HP

ALARM SWITCH (PART # 550077)



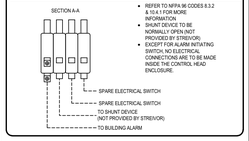
- QUANTITY: 1
- SWITCH IS RATED AT 28 VDC, 50 mA
- FIRE SUPPRESSION SYSTEM TO BE FIELD WIRED INTO BUILDING FIRE ALARM SYSTEM (BY OTHERS).



ELECTRICAL CONNECTIONS TO BE MADE OUTSIDE OF CONTROL HEAD FIELD WIRING BY OTHERS

- EXCEPT FOR ALARM INITIATING SWITCH, NO ELECTRICAL CONNECTIONS ARE TO BE MADE INSIDE THE CONTROL HEAD ENCLOSURE.

ELECTRICAL SWITCH WIRING



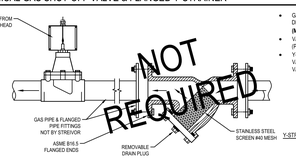
- REFER TO NFPA 96 CODES 8.3.2 & 10.4.1 FOR MORE INFORMATION
- SHUNT DEVICE TO BE NORMALLY OPEN (NO) PROVIDED BY STREIVOR.
- EXCEPT FOR ALARM INITIATING SWITCH, NO ELECTRICAL CONNECTIONS ARE TO BE MADE INSIDE THE CONTROL HEAD ENCLOSURE.

RESET RELAY

- REFER TO MANUAL RESET RELAY INSTRUCTIONS FOR MORE INFORMATION

MECHANICAL GAS SHUT-OFF VALVE & FLANGED Y-STRAINER

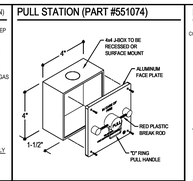
(SEE MEP DRAWINGS FOR LOCATION)



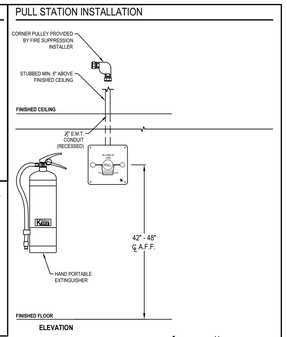
- GAS SHUT-OFF VALVE(S) TO BE SIZED AND LOCATED PER MEP DRAWINGS
  (MAXIMUM VALVE SIZE: 3" NPT)
- VALVE(S) AND STRAINERS TO BE INSTALLED BY DIVISION 22 (PLUMBING)
- Y-STRAINER REQUIRED FOR THE PROTECTION OF THE GAS VALVE. INSTALL A Y-STRAINER ON THE INLET SIDE OF THE GAS VALVE (AS CLOSE AS POSSIBLE).

Y-STRAINER NOT PROVIDED BY STREIVOR UNLESS SPECIFICALLY INCLUDED IN PURCHASE ORDER.

PULL STATION (PART #551074)

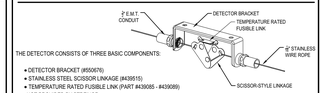


PULL STATION INSTALLATION



DETECTORS

(Series #435546 | Terminal #435547)



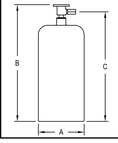
THE DETECTOR CONSISTS OF THREE BASIC COMPONENTS:

- DETECTOR BRACKET (#550676)
- STAINLESS STEEL SCISSOR LINKAGE (#439515)
- TEMPERATURE RATED FUSIBLE LINK (PART #435088 - #439089)
  NOT PROVIDED BY STREIVOR

THE SCISSOR STYLE DETECTOR ALLOWS THE WIRE ROPE TO BE STRUNG CONTINUOUSLY THROUGH THE DETECTION SYSTEM CONDUIT AND BRACKETS FIRST. THEN THE DETECTOR LINKAGE ASSEMBLIES ARE CLIPPED ON LATER.

*A-PC/SL STYLE FUSIBLE LINK TO BE PROVIDED BY INSTALLER (TEMP RATING TO BE VERIFIED AND DETERMINED IN FIELD)

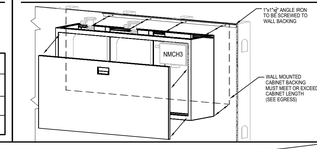
CYLINDER DETAILS



*CYLINDERS COME PRE-FILLED WITH EXTINGUISHING AGENT AND ARE CHARGED WITH DRY NITROGEN TO A PRESSURE OF 225 PSIG @ 70° F (15.5 BAR @ 21° C).

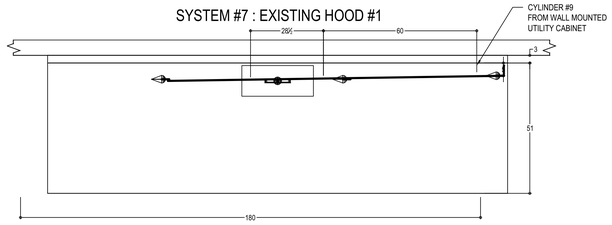
MODEL NO.	A	B	C	WEIGHT
PLC-160 (PART #550163)	8.00 IN	17.75 IN	15.44 IN	34 LBS.
PLC-300 (PART #551194)	8.00 IN	25.06 IN	22.75 IN	53 LBS.
PLC-460 (PART #551193)	10.00 IN	25.06 IN	22.75 IN	83 LBS.

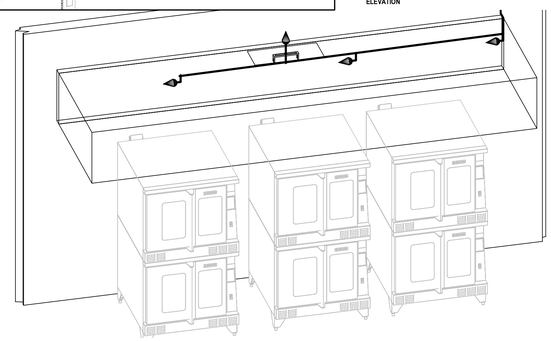
FIRE SUPPRESSION SYSTEM CABINET & REMOTE MOUNTED INSTALLATION

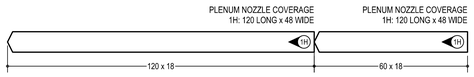


- 36" MINIMUM CLEARANCE REQUIRED IN FRONT OF THE REMOVABLE CABINET DOOR.
- SUPPORT BACKING REQUIRED IF CABINET MOUNTS TO WALL
- CABINET AND FIRE SUPPRESSION SYSTEM COMPONENTS APPROXIMATELY 100 LBS.IFT. SEE PATH OF EGRESS DRAWING FOR CABINET DIMENSION(S).

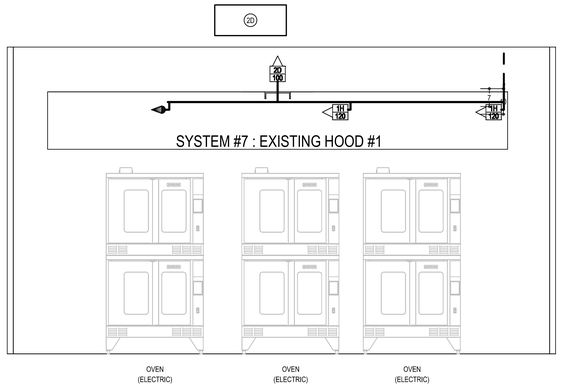
SYSTEM #7 : EXISTING HOOD #1







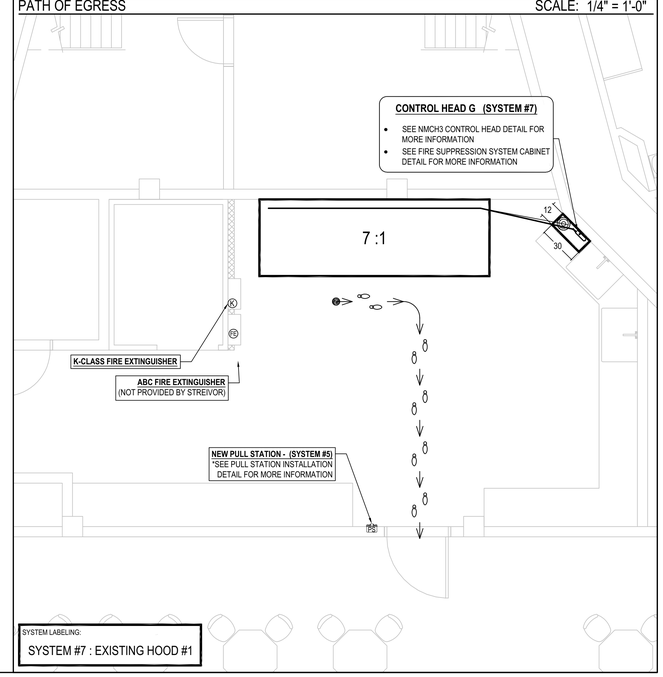
DUCT NOZZLE COVERAGE 2D: 100" PERIMETER



ALL FIRE SUPPRESSION SYSTEM PIPING TO BE FIELD INSTALLED BY A STREIVOR APPOINTED LICENSED FIRE SUPPRESSION SYSTEM INSTALLER

PATH OF EGRESS

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



SYSTEM LABELING:
SYSTEM #7 : EXISTING HOOD #1

INSTALLER:

GENERAL NOTES:

NOTES TO ARCHITECT AND/OR CONTRACTOR: STREIVOR, INC. (STREIVOR AIR SYSTEMS, STREIVOR STAINLESS) IS A SPECIALIST IN THE LAYOUT AND DESIGN OF KITCHEN VENTILATION SYSTEMS, AND IN NO WAY PURPORTS TO BE ARCHITECTS OR ENGINEERS.

THIS PLAN IS SUBMITTED FOR THE CONVENIENCE OF THE ARCHITECT AND/OR CONTRACTOR AND IS DONE FROM AVAILABLE ARCHITECTURAL INFORMATION. ALL MEASUREMENTS ARE SUBJECT TO PHYSICAL VERIFICATION AND ANY DEVIATIONS OR DISCREPANCIES SHALL BE DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN WRITING.

STREIVOR, INC. ACCEPTS NO RESPONSIBILITY FOR WORK DONE BY SAID ARCHITECT OR GENERAL CONTRACTOR OR THEIR REPRESENTATIVES OR SUBCONTRACTORS, AND WILL NOT STAND ANY EXPENSE FOR CHANGES MADE NECESSARY DUE TO LOCAL BUILDING CODES, ORDINANCES, STRUCTURAL CONDITIONS, OR BY ANY SUBSTITUTIONS OR CHANGES IN EQUIPMENT SHOWN ON THIS PLAN.

ANY ERRORS, AMBIGUITIES OR OMISSIONS IN THIS PLAN OR SPECIFICATIONS SHALL BE REPORTED TO STREIVOR, INC. FOR CORRECTIONS BEFORE ANY OF THE WORK IS STARTED. UNLESS EXPRESSLY STIPULATED, NO ADDITIONAL ALLOWANCE WILL BE MADE IN FAVOR OF THE OWNER OR CONTRACTOR BY VIRTUE OF ERROR, AMBIGUITY OR OMISSION WHICH MAY EXIST IN THE INFORMATION PROVIDED BY THE ARCHITECT AND/OR ESTIMATES, AND DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN A TIMELY MANNER.

STREIVOR™ AIR SYSTEMS

"STRIVING FOR EXCELLENCE"

2150 KITTY HAWK ROAD, LIVERMORE, CA 94551
PHONE: (925) 960-9090 FAX:(925) 960-9055
WWW.STREIVOR.COM

CUSTOMER APPROVAL

COOKING EQUIPMENT VERIFICATION

VERIFY THE FOLLOWING:

HIGH BACK SHELVES	YES ☐	NO ☐
RANGE COOKING SURFACE DEPTH GREATER THAN 28"	YES ☐	NO ☐
PULL STATION LOCATION(S)	YES ☐	NO ☐
UTILITY CABINET LOCATION(S)	YES ☐	NO ☐
AGENT DISTRIBUTION HOSE AND RESTRAINING CABLE KIT	YES ☐	NO ☐

CEILING HEIGHT ___'-___"

APPROVED BY DATE

NOTE TO REVIEWER:
ANY CHANGES IN COOKING EQUIPMENT SUCH AS EQUIPMENT POSITION, TYPE AND/OR INCREASE IN ENERGY OUTPUT MAY EFFECT EXHAUST AIRFLOW. STREIVOR AIR SYSTEMS MUST BE NOTIFIED OF ANY CHANGES THAT OCCUR PRIOR TO FABRICATION. A RE-ENGINEERING OF THE EXHAUST SYSTEM MAY BE REQUIRED AND ADDITIONAL COSTS MAY EXIST FOR FIRE SUPPRESSION PRE-TEST IS NOT INCLUDED UNLESS SPECIFICALLY LISTED IN QUOTE.

PROJECT:

CDCR PELICAN BAY

5905 LAKE EARL DRIVE
CRESCENT CITY, CA 95531

THE MARSHALL ASSOCIATES

ITEM #:	64
SYSTEM #:	7
HOOD #:	63
DATE:	04/11/2023
DRAWN BY:	KCS
CHECKED BY:	SWB
CONSULTANT:	THE MARSHALL ASSOCIATES
SCALE: (UNLESS OTHERWISE NOTED)	1/2" = 1' - 0"
1" BAR DOES NOT MEASURE 1" THIS DRAWING IS NOT ALLOTTED TO SCALE	

	DESCRIPTION	DATE	INT
1	PLAN CHECK COMMENTS	03/19/24	KCS
2	---	--/--/--	---
3	---	--/--/--	---
4	---	--/--/--	---
5	---	--/--/--	---

DRAWING:

F-08

SHEET 06 OF 06

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CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

The Marshall Associates, Inc.
Foodservice & Laundry Consultants/Designers
3000 Danville Blvd Suite F-344 Alamo, CA 94507
2129 4th Street Santa Rosa, CA 95404
415/677-1200 Fax 415/677-1210

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
4/10/24
23-5898
Approval of this plan does not authorize or approve any omission or deviation from applicable requirements. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

REV.	DATE:	DESCRIPTION

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS
Project Doc: 5882.00

HIBSER YAMAUCHI Architects, Inc.
4602 2nd Street, Suite #3
Davis, CA 95616
530.758.1270 office
530.758.4789 fax

LICENSED ARCHITECT KENT YAMAUCHI C-26566 02-28-2025 RENEWAL DATE STATE OF CALIFORNIA

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

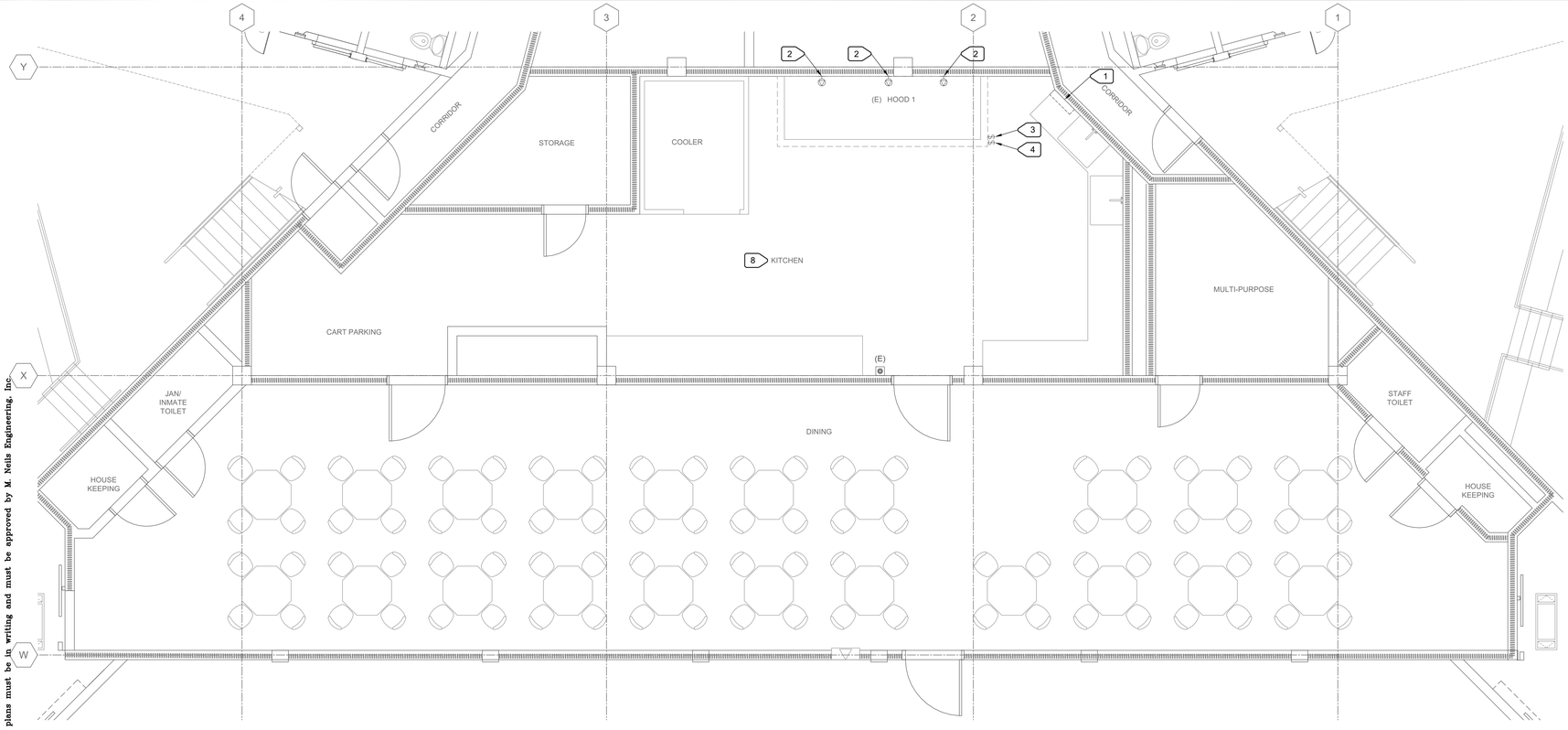
SHEET TITLE: BUILDING H04 A4 - ADMIN BUILDING FIRE SUPPRESSION MFR PLAN

CDCR Project Nos.: 20-0334

SHEET NUMBER

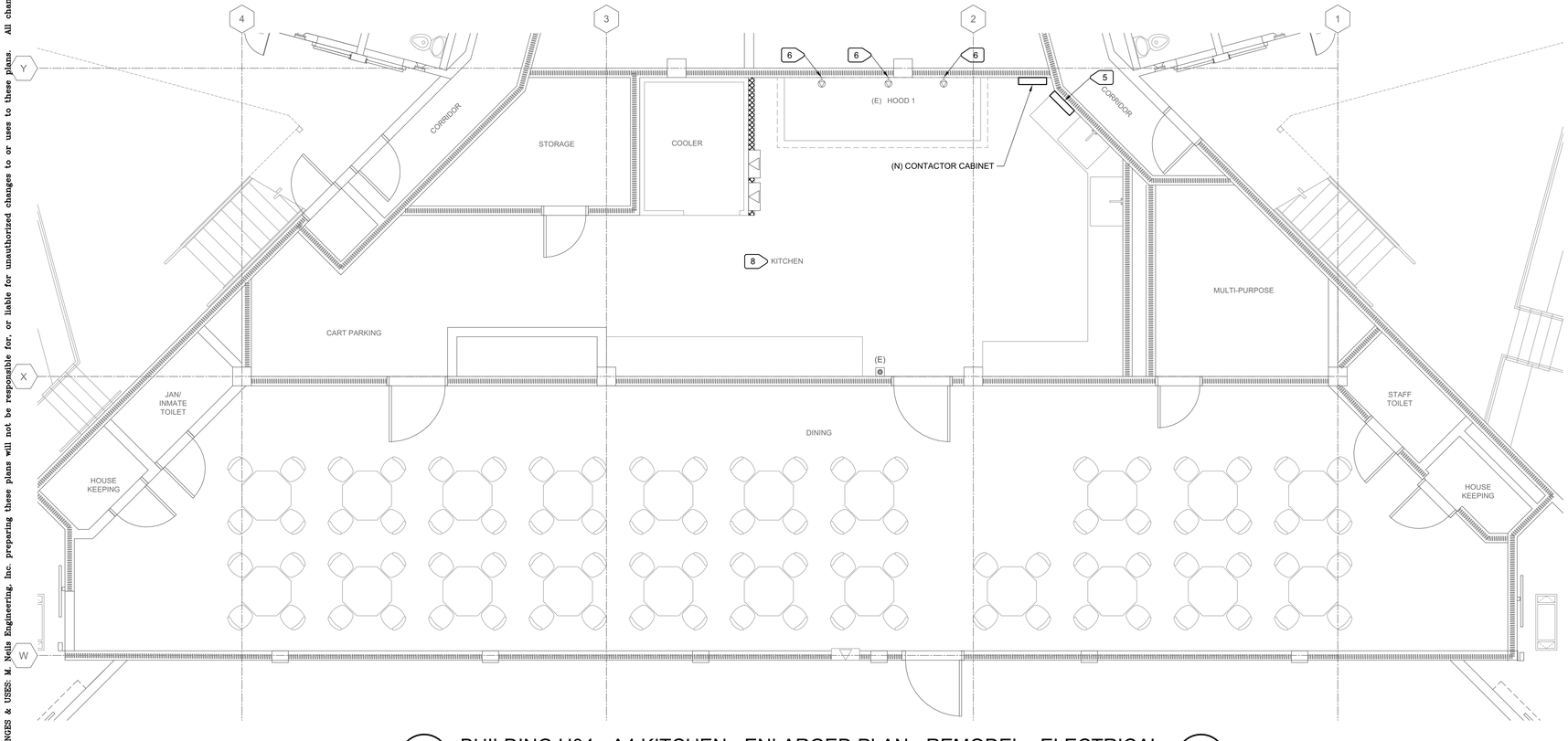
FS-H1.3

V3



1 E-H1.1 BUILDING H04 - A4 KITCHEN - ENLARGED PLAN - DEMOLITION - ELECTRICAL

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

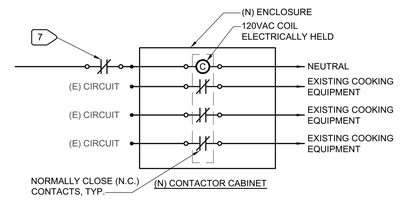


2 E-H1.1 BUILDING H04 - A4 KITCHEN - ENLARGED PLAN - REMODEL - ELECTRICAL

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

NUMBERED NOTES

1. EXISTING FIRE SUPPRESSION SYSTEM CONTROL PANEL TO BE REMOVED. DISCONNECT EXISTING 120V POWER CIRCUIT AND FIRE ALARM MONITORING CIRCUIT AND PROTECT FOR CONNECTION TO NEW PANEL.
2. EXISTING EQUIPMENT POWER RECEPTACLE TO REMAIN.
3. EXISTING HOOD LIGHT SWITCH TO REMAIN.
4. EXISTING HOOD FAN SWITCH TO REMAIN.
5. NEW FIRE SUPPRESSION SYSTEM CONTROL PANEL. RECONNECT TO EXISTING 120V POWER CIRCUIT AND FIRE ALARM MONITORING CIRCUIT. SEE DETAIL "1/E-0.1" ON SHEET E-0.1".
6. LOCATE AND INTERCEPT EXISTING EQUIPMENT POWER CIRCUIT AND RE-ROUTE THROUGH NEW CONTACTOR. SEE DETAIL "3/E-H1.1".
7. WHEN THE NORMALLY CLOSED (N.C.) AUXILIARY CONTACT IN FIRE SUPPRESSION SYSTEM CONTROL PANEL IS OPEN, THE ELECTRICALLY HELD CONTROL COIL IS DE-ENERGIZED AND THE N.C. CONTACTORS ARE OPENED, DE-ENERGIZING THE EQUIPMENT UNDER THE HOOD.
8. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND RATING OF FIRE RATED WALLS.



3 E-H1.1 CONTACTOR CABINET DIAGRAM

NO SCALE

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11/04/24
23-8888
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REV.	DATE:	DESCRIPTION

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS

Project No: 5892.00

HIBSER YAMAUCHI Architects, Inc.
4602 2nd Street, Suite #3
Davis, CA 95616
530.758.4279 office
530.758.4789 fax

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

SHEET BUILDING H04 - A4 KITCHEN - ENLARGED PLANS - DEMOLITION AND REMODEL - ELECTRICAL TITLE:

CDCR Job No.: 20-034

CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

REGISTERED PROFESSIONAL ENGINEER
JESSE U. BASTIAN
No. E20229
Exp. 03-31-25
ELECTRICAL
STATE OF CALIFORNIA
10/15/2024

M. NEILS
ENGINEERING, INC.
Electrical Engineers | Lighting Designers
100 Howe Ave., Suite 235N
Sacramento, CA 95825-8217
www.mneilsengineering.com
Tel: (916) 923-4400
PROJECT #: 22238.21
PROJECT MGR: Stuart Lindsay

SHEET NUMBER
E-H1.1
V3

UNAUTHORIZED CHANGES & USES: M. Neils Engineering, Inc. preparing these plans will not be responsible for, or liable for unauthorized changes to or uses to these plans. All changes to these plans must be in writing and must be approved by M. Neils Engineering, Inc.

Oct 15, 2024 – 2:30pm, / kerlo

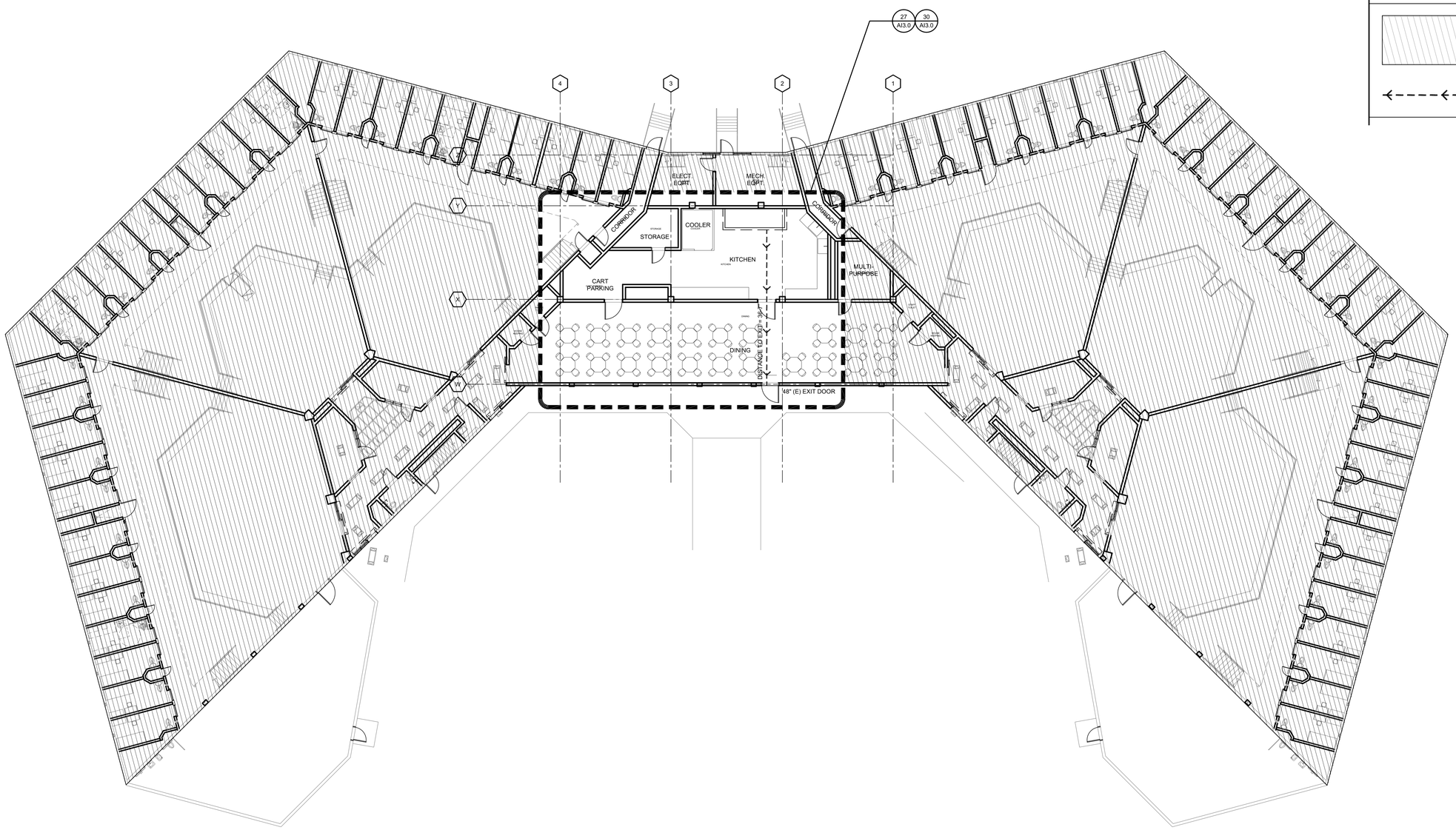
GENERAL NOTES

1. DESIGN, FURNISH, INSTALL AND TEST NEW FIRE SYSTEM.
2. FIELD VERIFY ALL EXISTING CONDITIONS AS NECESSARY FOR THE WORK. DRAWINGS WERE PRODUCED FROM FIELD NOTES.
3. NEW SUPPRESSION MANUAL PULL STATION TO BE WITHIN THE KITCHEN ROOM, BETWEEN 10FT TO 20FT FROM THE HOOD AND IN ROUTE THE EXIT DOOR.
4. NEW (K) CLASS FIRE EXTINGUISHER TO BE WITHIN 30FT FROM THE HOOD. IF NEEDED PROVIDE A SECOND EXTINGUISHER AS SHOWN IN DRAWINGS.
5. AFTER CONSTRUCTION IS COMPLETE, REPAIR ADJACENT SURFACES TO MATCH EXISTING IN PRE-CONSTRUCTION CONDITION. SEE DRAWINGS TO ENSURE PROPER FIRE RATING IS MAINTAINED.
6. NEW PULL STATIONS TO BE INSTALLED WITH OPERABLE PARTS NOT HIGHER THAN 48" AFF. PROVIDE ACCESSIBLE CLEARANCE IN FRONT OF THE PULL STATION.
7. NEW FIRE EXTINGUISHERS TO BE MOUNTED IN A CABINET WITH TOP SET AT 48" MAX. AFF. FOR RECESSED CABINET INSTALL SO IT DOES NOT PROTRUDE MORE THAN 4" OUT OF THE WALL, UON.
8. THE REMOVAL OF CONDUIT OR PIPING SHALL BE SEALED WITH LISTED OR EQUIVALENT LIQUID TIGHT SEALING DEVICES. (NFPA 96 SECTION: 10.2.7.2)
9. FOR STRUCTURAL ANCHORAGE FOR KITCHEN EQUIPMENT SEE SHEET S9.0 AND S9.1

LEGEND

AREA NOT IN SCOPE

PATH OF TRAVEL TO EXIT



CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

30 BUILDING H05 - B4 KITCHEN - OVERALL PLAN
SCALE: 3/32" = 1'-0"

N

9/27/2023 5:48 PM

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11/04/24
23-5898
Approval of this plan does not authorize or approve any omission or deviation from applicable requirements. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

REV.	DATE:	DESCRIPTION

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS
Project No: 5892.00

HIBSER YAMAUCHI Architects, Inc.
4602 2nd Street, Suite #3
Davis, CA 95618
530.758.2770 office
530.758.4789 fax

LICENSED ARCHITECT
KEN YAMAUCHI
C-26566
02-28-2025
RENEWAL DATE
STATE OF CALIFORNIA

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

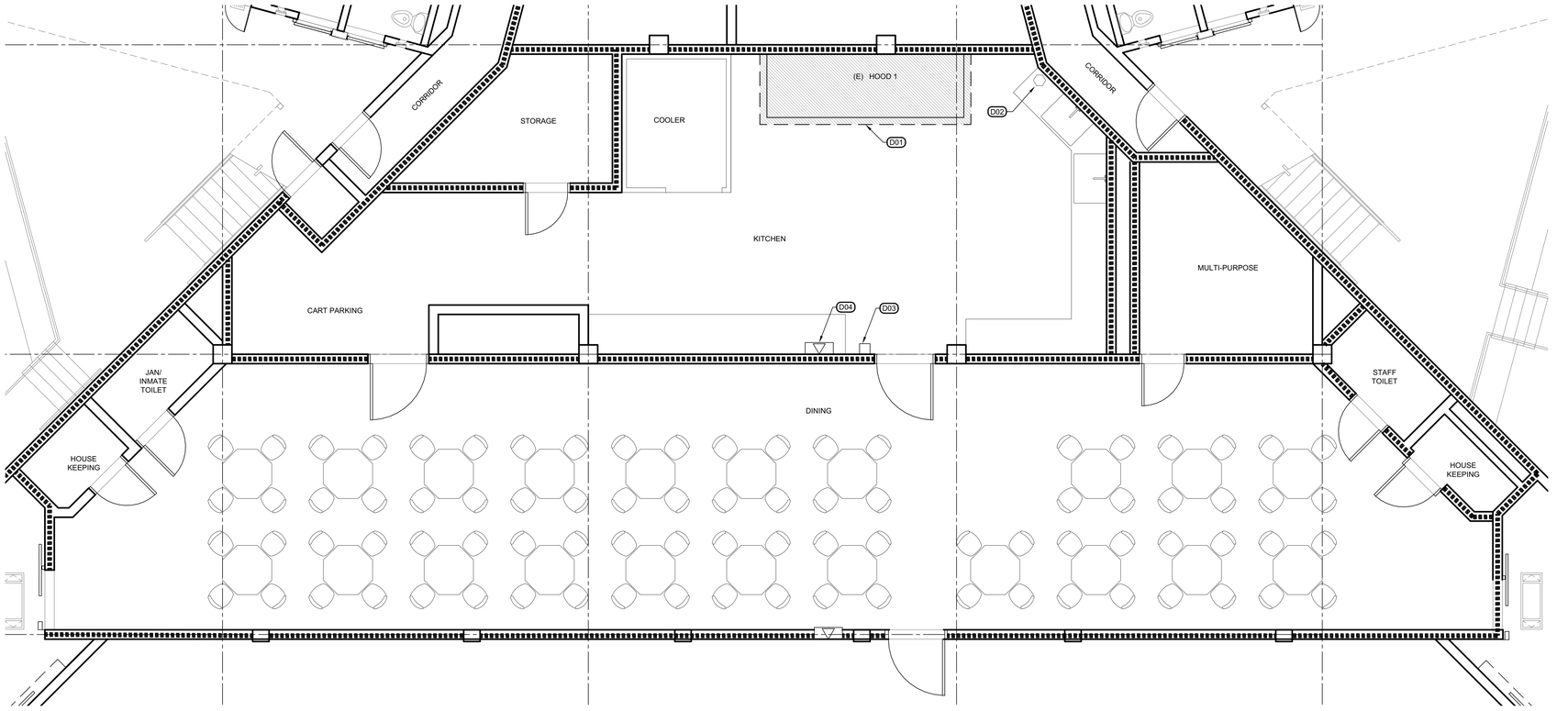
PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

SHEET TITLE: BUILDING H05, B4 KITCHEN
OVERALL PLAN

CDCR Project No.: 20-034

SHEET NUMBER
AI2.0
V3

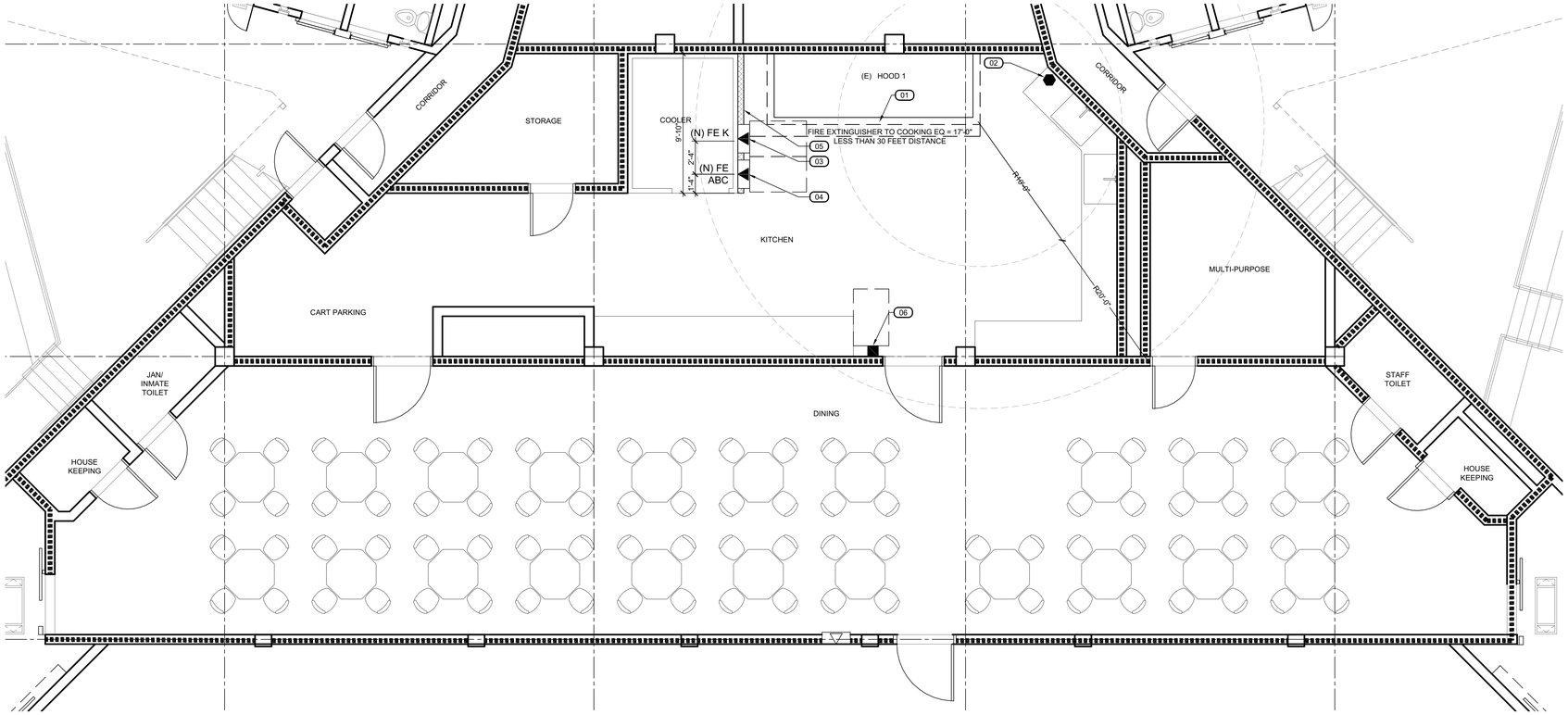


27 BUILDING H05 - B4 KITCHEN, ENLARGED PLAN - DEMOLITION

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

GRAPHIC SCALE: 0 1' 2' 4' 8' 12' 1/4" = 1'-0"

N



30 BUILDING H05 - B4 KITCHEN, ENLARGED PLAN - REMODEL

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

GRAPHIC SCALE: 0 1' 2' 4' 8' 12' 1/4" = 1'-0"

N

GENERAL NOTES

1. DESIGN, FURNISH, INSTALL AND TEST NEW FIRE SYSTEM.
2. FIELD VERIFY ALL EXISTING CONDITIONS AS NECESSARY FOR THE WORK. DRAWINGS WERE PRODUCED FROM FIELD NOTES.
3. NEW SUPPRESSION MANUAL PULL STATION TO BE WITHIN THE KITCHEN ROOM, BETWEEN 10FT TO 20FT FROM THE HOOD AND IN ROUTE THE EXIT DOOR.
4. NEW (K) CLASS FIRE EXTINGUISHER TO BE WITHIN 30FT FROM THE HOOD. IF NEEDED PROVIDE A SECOND EXTINGUISHER AS SHOWN IN DRAWINGS.
5. AFTER CONSTRUCTION IS COMPLETE, REPAIR ADJACENT SURFACES TO MATCH EXISTING IN PRE-CONSTRUCTION CONDITION. SEE DRAWINGS TO ENSURE PROPER FIRE RATING IS MAINTAINED.
6. NEW PULL STATIONS TO BE INSTALLED WITH OPERABLE PARTS NOT HIGHER THAN 48" AFF. PROVIDE ACCESSIBLE CLEARANCE IN FRONT OF THE PULL STATION.
7. NEW FIRE EXTINGUISHERS TO BE MOUNTED IN A CABINET WITH TOP SET AT 48" MAX. AFF. FOR RECESSED CABINET INSTALL SO IT DOES NOT PROTRUDE MORE THAN 4" OUT OF THE WALL, UON.
8. THE REMOVAL OF CONDUIT OR PIPING SHALL BE SEALED WITH LISTED OR EQUIVALENT LIQUID TIGHT SEALING DEVICES. (NFPA 96 SECTION: 10.2.7.2)
9. FOR STRUCTURAL ANCHORAGE FOR KITCHEN EQUIPMENT SEE SHEET S9.0 AND S9.1

WALL LEGEND

(N) FURRING WALL. SEE DETAIL 12/A9.0

(E) CMU WALL

DEMOLITION LEGEND

EXISTING KITCHEN HOOD TO REMAIN. ANSUL SYSTEM TO BE REPLACED. SEE FS DRAWINGS FOR DETAILS AND EQUIPMENT LAYOUT.

FSS — (E) FIRE SUPPRESSION SYSTEM CONTROL BOX

FEC — (E) FIRE EXTINGUISHING CABINET WITH FIRE HOSE AND FIRE EXTINGUISHER INSIDE.

PS — (E) PULL STATION LOCATION AND SIGN INDICATING ANSUL SYSTEM NUMBER. SEE GENERAL NOTES AND FS DRAWINGS.

FE (ABC) — (E) ABC-CLASS PORTABLE FIRE EXTINGUISHER

FE (K) — (E) K-CLASS PORTABLE FIRE EXTINGUISHER

REMODEL LEGEND

FSS — (N) FIRE SUPPRESSION SYSTEM CONTROL BOX

DISTANCE (30 FEET MAXIMUM UNOBSTRUCTED FROM COOKING EQUIPMENT TO FIRE EXTINGUISHER.

FE (ABC) — (N) ABC-CLASS PORTABLE FIRE EXTINGUISHER

FE (K) — (N) K-CLASS PORTABLE FIRE EXTINGUISHER

DEMOLITION KEYNOTES

D01 (E) KITCHEN HOOD TO REMAIN. ANSUL SYSTEM TO BE REPLACED. SEE FS DRAWINGS .

D02 (E) FIRE SUPPRESSION SYSTEM CONTROL BOX TO BE REPLACED. SEE FS DRAWING.

D03 REMOVE (E) PULL STATION. PATCH, REPAIR AND PAINT ADJACENT SURROUNDINGS TO MATCH (E) CONDITIONS.

D04 REMOVE (E) FIRE EXTINGUISHER CABINET. PATCH, REPAIR AND PAINT ADJACENT SURROUNDINGS TO MATCH (E) CONDITIONS.

REMODEL KEYNOTES

01 ANSUL SYSTEM TO BE REPLACED. SEE FS DRAWINGS FOR DETAILS AND EQUIPMENT LOCATIONS.

02 (N) FIRE SUPPRESSION SYSTEM CONTROL BOX. SEE FS DRAWINGS.

03 (N) RECESSED FIRE EXTINGUISHER CABINET EQUIPPED W/K CLASS FIRE EXTINGUISHER. SEE DETAIL 1/A9.0 & FS DRAWINGS FOR SIZING

04 (N) RECESSED FIRE EXTINGUISHER CABINET EQUIPPED W/ ABC CLASS FIRE EXTINGUISHER, SIZE 2A. SEE DETAIL 1/A9.0

05 (N) FURRING WALL, SEE DETAIL 12/A9.0

06 (N) PULL STATION. SEE FS DRAWINGS. ENSURE MIN. 15" CLEARANCE BETWEEN CENTER OF PULL STATION AND COUNTER FOR ADA ACCESS

CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
11/04/24
23-5898
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REV.	DATE:	DESCRIPTION

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS
Project No: 5892.00

HIBSER YAMAUCHI Architects, Inc.
4602 2nd Street, Suite #3
Davis, CA 95616
530.758.4279 office
530.758.4789 fax

LICENSED ARCHITECT
KEN YAMAUCHI
C-26566
02-28-2025
RENEWAL DATE
STATE OF CALIFORNIA

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

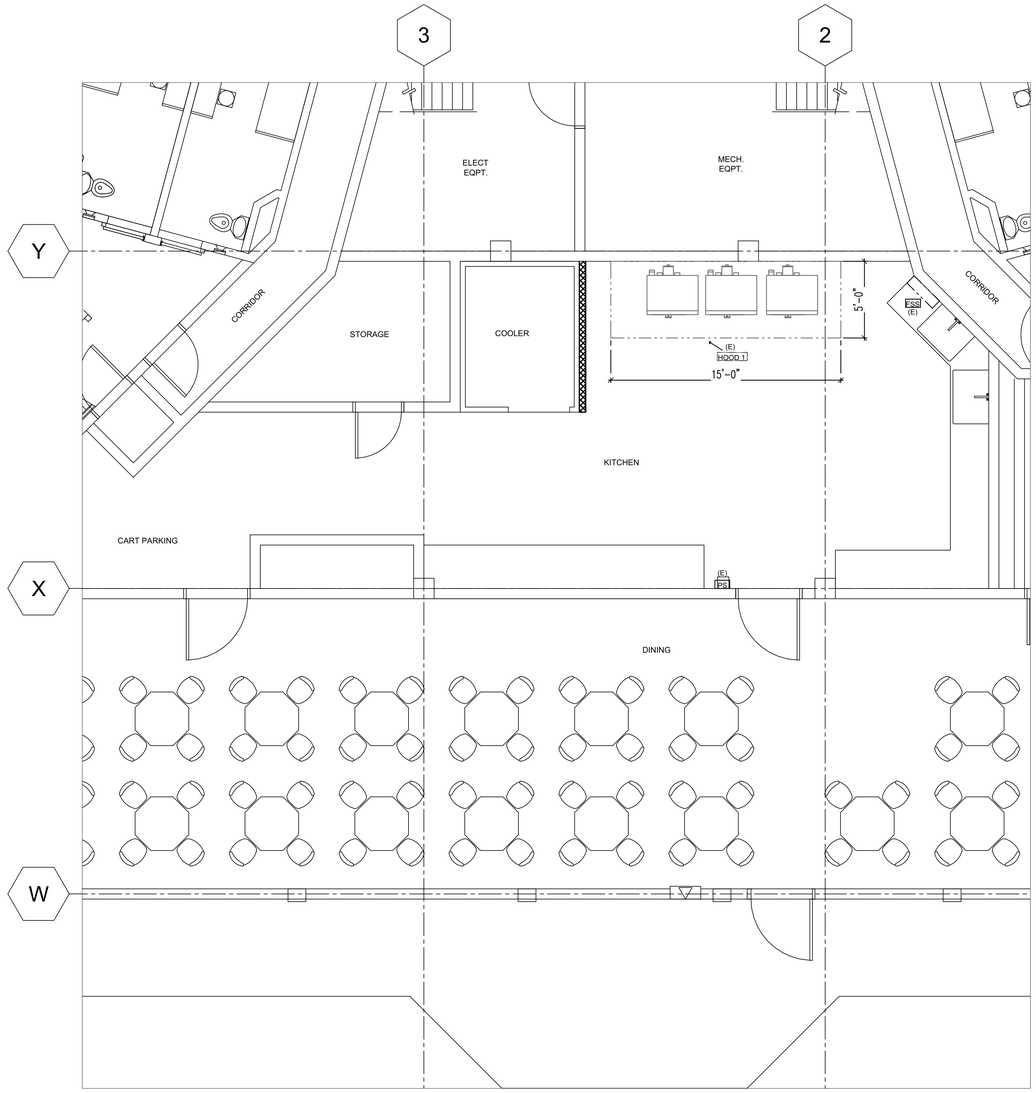
SHEET TITLE: BUILDING H05, B4 KITCHEN
ENLARGED PLANS DEMOLITION AND REMODEL

CDCR Project Nos.: 20-034

SHEET NUMBER
AI3.0

V3

2/14/2024 12:17 PM



30 BLDG H05 B4 HOUSING UNIT - FOODSERVICE EQUIPMENT PLAN

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

GENERAL NOTES:

A. ALL EQUIPMENT TO HAVE NSF, ETL SANITATION OR UL SANITATION APPROVALS.

B. INSTALLATION TO MEET CALIFORNIA RETAIL FOOD CODE (CRFC) LATEST EDITION.

FIRE SUPPRESSION CONTRACTOR TO:

A. REMOVE EXISTING FIRE SUPPRESSION SYSTEM AND ALL COMPONENTS.

B. REFER TO ARCHITECTURAL DRAWING SHEET NOTES FOR NOTES AND GUIDELINES REGARDING EXISTING CONDITION GUIDELINES

SYMBOLS

(E) FSS EXISTING FIRE SUPPRESSION SYSTEM; TO BE REMOVED

(E) PS EXISTING FIRE PROTECTION PULL BOX; TO BE REMOVED

CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

The Marshall Associates, Inc.
Foodservice & Laundry Consultants/Designers
3000 Danville Blvd Suite F-344 Alamo, CA 94507
2129 4th Street Santa Rosa, CA 95404
415/677-1200 Fax 415/677-1210

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION

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DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS
Project No: 5892.00

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LICENSED ARCHITECT KEN YAMAUCHI C-26566 02-28-2025 RENEWAL DATE STATE OF CALIFORNIA

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

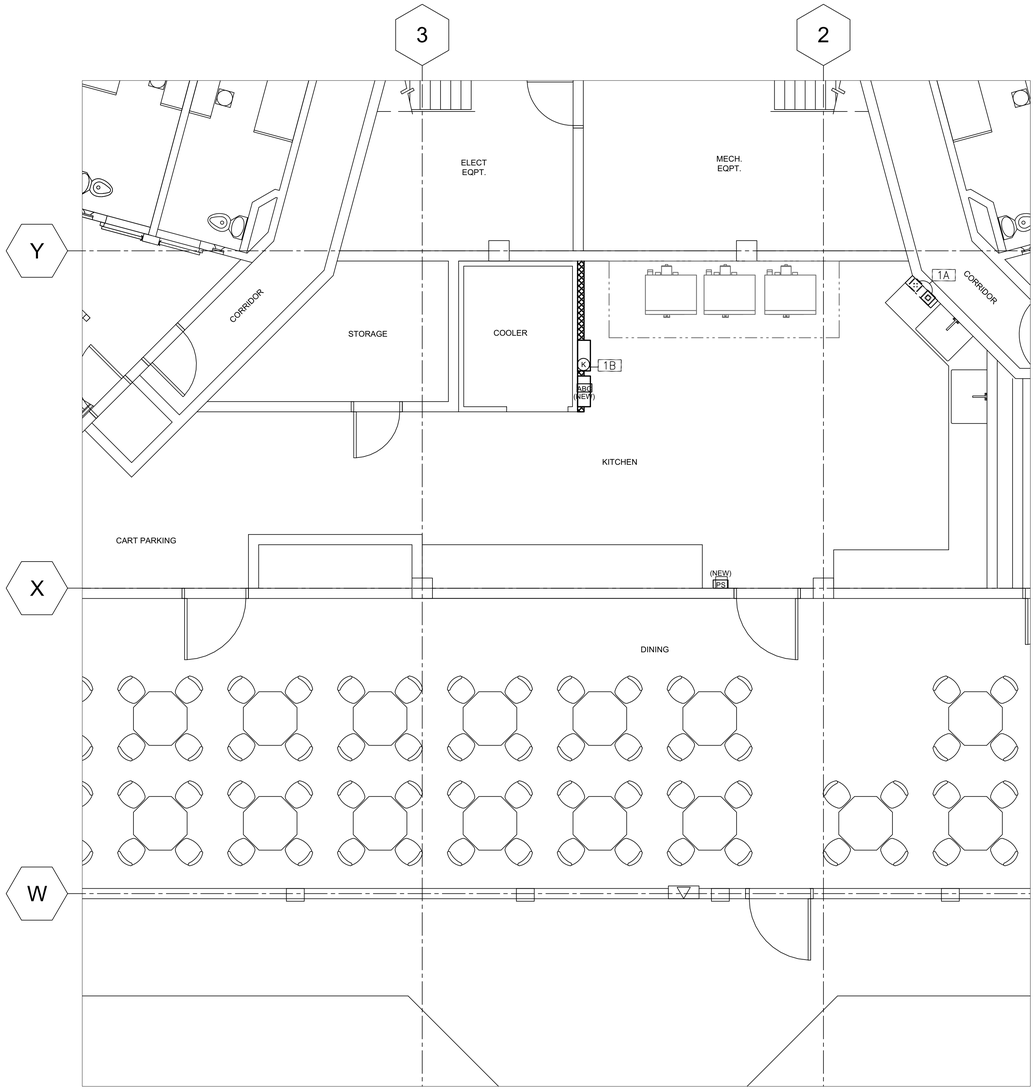
SHEET TITLE: BUILDING H05- B4 KITCHEN
FIRE SUPPRESSION DEMO PLAN

CDCR 20-434 Job Nos.:

SHEET NUMBER

FS-I1.1

V3



30 BLDG H05 B4 HOUSING UNIT - FIRE SUPPRESSION NEW EQUIPMENT PLAN

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

EQUIPMENT SCHEDULE

ITEM	QTY	DESCRIPTION	MANUFACTURER	MODEL NUMBER	NOTES
1	1	EXHAUST HOOD (TYPE-I)	EXISTING; IN PLACE	NOT PART OF FSEC CONTRACT	NIC
1A	1	FIRE PROTECTION SYSTEM	STREVOR AIR SYSTEMS	PYRO-CHEM KITCHEN KNIGHT II	
1B	1	CLASS K FIRE EXTINGUISHER	BUCKEYE	WC-6L	
A	3	ELECTRIC CONVECTION OVEN	VULCAN (EXISTING)	ER-10 (EXISTING)	NIC
B	1	14 GA S/S WALL FLASHING	EXISTING	NOT PART OF FSEC CONTRACT	NIC

ABBREVIATIONS:

FSEC	FOODSERVICE EQUIPMENT CONTRACTOR
S/S	STAINLESS STEEL
NIC	NOT IN CONTRACT
CKT	CIRCUIT

ELECTRICAL ROUGH-IN

ITEM	QTY	DESCRIPTION	CONNECTED LOAD							CONNECTION TYPE		
			120/1	120/208/1	120/208/3	208/1	208/3	480/3	HT	C&P	RECP	HW
1	1	EXHAUST HOOD (TYPE-I)										
1A	1	FIRE PROTECTION SYSTEM	20A CKT						FA			*
1B	1	CLASS K FIRE EXTINGUISHER										

ABBREVIATIONS:

C&P	CORD AND PLUG	CKT	CIRCUIT
RECP	RECEPTACLE	E	EXISTING
HW	HARDWIRE		
HT	HEIGHT		
FA	FROM ABOVE		

SCHEDULE / DRAWING NOTES:

CONNECTED LOAD = EACH CONNECTION SHOWN ON DRAWING

CONNECTION TYPES PROVIDED BY ELECTRICAL DIVISION

SHEET NOTES

FIRE SUPPRESSION CONTRACTOR TO PROVIDE:

A. WORK AS DESCRIBED IN CONTRACT DOCUMENTS AND SUPPLEMENTAL REQUIREMENTS PER FIRE SUPPRESSION EQUIPMENT SECTION.

B. ROUGH-IN AND FINAL CONNECTION TO ALL FIRE SUPPRESSION EQUIPMENT AS INDICATED ON DRAWINGS AND IN ELECTRICAL ROUGH-IN SCHEDULE.

C. ALL JUNCTION-BOXES, ELECTRICAL OUTLETS, COVER PLATES, SWITCHES NOT BUILT INTO FIXTURES OR EQUIPMENT.

D. SHUNT TRIP CIRCUIT BREAKERS FOR ALL FOODSERVICE EQUIPMENT BELOW EXHAUST HOODS.

E. INCLUDE DORMONT POSI-SET CASTER PLACEMENT SAFETY SYSTEM FOR ALL EXISTING MOBILE COOKING EQUIPMENT BELOW EXISTING HOODS AFTER NEW FIRE SUPPRESSION SYSTEM HAS BEEN INSTALLED. SEE S9.1 FOR DETAIL

F. ALL OTHER EXISTING EQUIPMENT TO BE ANCHORED PER REQUIREMENTS SHOWN ON S9.1

INTERCONNECTION BETWEEN:

A. FIRE PROTECTION SYSTEM AND BUILDING LIFE SAFETY.

SYMBOLS

PS — NEW FIRE PROTECTION PULL BOX – OCTAGONAL BOX 48" AFF WITH CONDUIT TO CEILING – PYRO CHEM KITCHEN KNIGHT II MODEL RPS-M

ABC — NEW ABC FIRE EXTINGUISHER SEE SHEET AA3.0 FOR MAKE/MODEL

K — NEW TYPE K FIRE EXTINGUISHER BUCKEYE; MODEL WC-6L

JUNCTION BOX ROUGH-IN

JUNCTION BOX CONNECTION PROVIDED IN EQUIPMENT

CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

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23-8398

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FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
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KEN YAMAUCHI
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02-28-2025
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REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

SHEET TITLE: BUILDING H02 - A2 KITCHEN
FIRE SUPPRESSION NEW EQUIPMENT PLAN

CDCR Job Nos.: 20-034

SHEET NUMBER

FS-I1.2

V3

LISTINGS & STANDARDS

THIS WET CHEMICAL EXTINGUISHING SYSTEM IS ENGINEERED TO PROVIDE FIRE PROTECTION FOR RESTAURANT HOODS, DUCTS AND COOKING APPLIANCES, IS **UL 300** LISTED AND IS TO BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS:

- NFPA 17A 2021 EDITION
- NFPA 10 2018 EDITION
- NFPA 96 2021 EDITION

SECTIONS & CODES

NFPA 10 2018 EDITION

(6.6.2) MAXIMUM TRAVEL DISTANCE SHALL NOT EXCEED 30 FT (9.1 M) FROM THE HAZARD TO THE EXTINGUISHER(S)

NFPA 17A 2021 EDITION

(5.2.1.10.1) EACH MANUAL ACTUATION DEVICE SHALL BE INSTALLED NO MORE THAN 48 IN. (1200 MM) AND NO LESS THAN 42 IN. (1067 MM) ABOVE THE FLOOR.

NFPA 96 2021 EDITION

(8.2.3.1) A HOOD EXHAUST FAN(S) SHALL CONTINUE TO OPERATE AFTER THE EXTINGUISHING SYSTEM HAS BEEN ACTIVATED UNLESS FAN SHUTDOWN IS REQUIRED BY A LISTED COMPONENT OF THE VENTILATION SYSTEM OR BY THE DESIGN OF THE EXTINGUISHING SYSTEM.

(8.2.3.2) THE HOOD EXHAUST FAN SHALL START UPON ACTIVATION OF THE EXTINGUISHING SYSTEM IF THE EXHAUST FAN AND ALL COOKING EQUIPMENT SERVED BY THE FAN HAVE BEEN SHUT DOWN, UNLESS FAN SHUTDOWN IS REQUIRED BY A LISTED COMPONENT OF THE VENTILATION SYSTEM OR BY THE LISTING OF THE EXTINGUISHING SYSTEM.

(8.3.2) WHEN THE FIRE-EXTINGUISHING SYSTEM ACTIVATES, MAKEUP AIR SUPPLIED INTERNALLY TO A HOOD SHALL BE SHUT OFF.

(10.4.1) UPON ACTIVATION OF ANY FIRE EXTINGUISHING SYSTEM FOR A COOKING OPERATION, ALL ~~SOURCES OF FUEL~~ AND ELECTRICAL POWER THAT PRODUCE HEAT TO ALL EQUIPMENT REQUIRING PROTECTION BY THAT SYSTEM SHALL AUTOMATICALLY SHUT OFF.

(10.4.3) ~~GAS APPLIANCE NOT REQUIRING PROTECTION BUT LOCATED UNDER VENTILATING EQUIPMENT WHERE PROTECTED APPLIANCES ARE LOCATED SHALL BE AUTOMATICALLY SHUT OFF UPON ACTIVATION OF THE EXTINGUISHING SYSTEM~~

(10.4.4) SHUTOFF DEVICE SHALL REQUIRE MANUAL RESETTING PRIOR TO FUEL / POWER BEING RESTORED

(10.5.1.1) AT LEAST ONE MANUAL ACTUATION DEVICE SHALL BE LOCATED IN A MEANS OF EGRESS OR AT A LOCATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.

(10.5.1.2) THE MANUAL ACTUATION DEVICE SHALL CLEARLY IDENTIFY THE HAZARD PROTECTED.

CMC 2022 EDITION

(513.5) ALL SYSTEMS SHALL HAVE BOTH AUTOMATIC AND MANUAL METHODS OF ACTUATION. AT LEAST ONE MANUAL ACTUATION DEVICE SHALL BE LOCATED IN A MEANS OF EGRESS OR AT A LOCATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.

INSTALLATION REQUIREMENTS

1. ALL PIPE SHALL BE SCHEDULE 40 BLACK IRON. CHROME PLATED/SLEEVED WHERE EXPOSED.
2. ALL CYLINDER SYSTEMS SHALL HAVE 3/8" SUPPLY LINES AND 3/8" BRANCH LINES.
3. ALL WIRE ROPE SHALL BE 1/16" STAINLESS STEEL AND RUN THROUGH 1/2" EMT CONDUIT.
4. U.L. LISTED CORNER PULLEYS REQUIRED WHENEVER THE STAINLESS STEEL CABLE DIRECTION CHANGES.
5. ALL EQUIPMENT WITH FIRE PROTECTION MUST BE SECURED TO FLOOR. (NOT BY STREIVOR)
6. SWIVEL ADAPTERS MAY BE ADDED TO NOZZLES FOR UP TO 30° ROTATION.

SYSTEM #8

PAGE NUMBERS REFERENCED FROM THE PYROCHEM FIRE SUPPRESSION SYSTEM TECHNICAL MANUAL

CABLE/LINE LIMITATIONS - CONTROL HEAD H

		LENGTH		PULLEYS	BRACKETS
FUSIBLE LINK (pg. 4-5)	MAXIMUM	150.00	FT	40	20
	ALLOTTED	20.00	FT	4	1*
PULL STATION(S) (pg. 4-9)	MAXIMUM	150.00	FT	40	N/A
	ALLOTTED	45.00	FT	2	N/A
GAS VALVE(S) (pg. 4-10)	MAXIMUM	100.00	FT	30	N/A
	ALLOTTED	--.--	FT	--	N/A

*ML STYLE FUSIBLE LINK INCLUDED WITH SYSTEM (NOT SUPPLIED BY STREIVOR). FUSIBLE LINK TEMPERATURE RATING TO BE VERIFIED AND DETERMINED IN FIELD.

CYLINDER #10

COVERAGE DESCRIPTION	NOZZLE	QTY.	FLOW POINTS	PAGE
DUCT	2D	1	2	3-1
PLENUM	1H	2	2	3-3

MODEL	FLOW POINTS			
PCL-300	4	ALLOTTED	10	MAXIMUM

TOTAL				FIRST TO LAST NOZZLE			
LENGTH**		VOLUME		LENGTH**		VOLUME	
36.00	FT	1350	ML	28.00	FT	1050	ML

CYLINDER #-

COVERAGE DESCRIPTION	NOZZLE	QTY.	FLOW POINTS	PAGE

MODEL	FLOW POINTS	
	ALLOTTED	MAXIMUM

TOTAL				FIRST TO LAST NOZZLE			
LENGTH**		VOLUME		LENGTH**		VOLUME	
FT		ML		FT		ML	

CYLINDER/PIPING LIMITATIONS

CYLINDER	FLOW POINTS	TOTAL				FIRST TO LAST NOZZLE			
		LENGTH*		VOLUME		LENGTH*		VOLUME	
PCL-460	15	69.33	FT	2600	ML	53.33	FT	2000	ML
PCL-460	14	90.67	FT	3400	ML	80.00	FT	3000	ML
PCL-300	10	50.93	FT	1910	ML	30.00	FT	1125	ML
PCL-160	5	40.00	FT	1500	ML	16.00	FT	600	ML

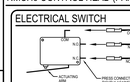
** CALCULATIONS BASED ON 3/8" PIPE (37.5 ML/FT) (SEE pg. 3-18)

LEGEND

- PATH OF EGRESS
- DETECTION LINE ROUTE
- K-CLASS FIRE EXTINGUISHER (NOT SUPPLIED BY STREIVOR)
- GAS VALVE
- PULL STATION
- RESET RELAY
- CONTROL HEAD
- DETECTOR BRACKET (FRONT VIEW)
- DETECTOR BRACKET (PLAN VIEW)
- NOZZLE COVERAGE
- PAC-10 PNEUMATIC TUBING
- FIELD PIPING
- FIELD WIRING NOT BY STRIEVOR
- DUCT NOZZLE MAX PERIMETER
- PLENUM NOZZLE MAX PLENUM LENGTH
- APPLIANCE NOZZLE AND HEIGHT
- DOWNWARD FACING NOZZLE
- ANGLED NOZZLE AND TARGET LOCATION

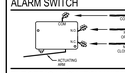
NMCH3 CONTROL HEAD (PART #551203) & ELECTRICAL WIRING

ELECTRICAL SWITCH (PART # 551154)

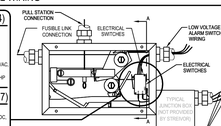


- QUANTITY: 3
- SWITCH IS RATED AT 250 VAC, 21A RESISTIVE; 250 VAC, 2 HP; 125 VAC, 1 HP

ALARM SWITCH (PART # 550077)



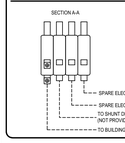
- QUANTITY: 1
- SWITCH IS RATED AT 28 VDC, 50 mA
- FIRE SUPPRESSION SYSTEM TO BE FIELD WIRED INTO BUILDING FIRE ALARM SYSTEM (BY OTHERS).



ELECTRICAL CONNECTIONS TO BE MADE OUTSIDE OF CONTROL HEAD FIELD WIRING BY OTHERS

- EXCEPT FOR ALARM INITIATING SWITCH, NO ELECTRICAL CONNECTIONS ARE TO BE MADE INSIDE THE CONTROL HEAD ENCLOSURE.

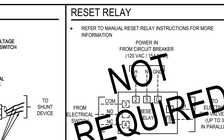
ELECTRICAL SWITCH WIRING



- REFER TO NFPA 96 CODES 8.3.2 & 10.4.1 FOR MORE INFORMATION
- SHUNT DEVICE TO BE NORMALLY OPEN (NO)(NOT PROVIDED BY STREIVOR)
- EXCEPT FOR ALARM INITIATING SWITCH, NO ELECTRICAL CONNECTIONS ARE TO BE MADE INSIDE THE CONTROL HEAD ENCLOSURE.

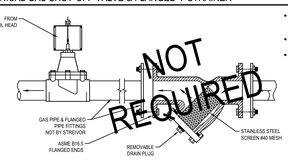
RESET RELAY

- REFER TO MANUAL RESET RELAY INSTRUCTIONS FOR MORE INFORMATION



MECHANICAL GAS SHUT-OFF VALVE & FLANGED Y-STRAINER

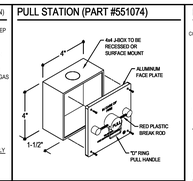
(SEE MEP DRAWINGS FOR LOCATION)



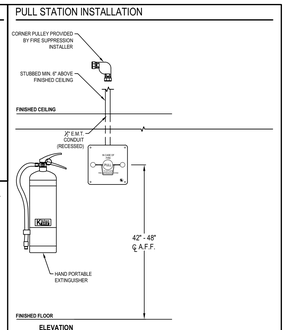
- GAS SHUT-OFF VALVE(S) TO BE SIZED AND LOCATED PER MEP DRAWINGS
  (MAXIMUM VALVE SIZE: 3" NPT)
- VALVE(S) AND STRAINERS TO BE INSTALLED BY DIVISION 22 (PLUMBING)
- Y-STRAINER REQUIRED FOR THE PROTECTION OF THE GAS VALVE. INSTALL A Y-STRAINER ON THE INLET SIDE OF THE GAS VALVE (AS CLOSE AS POSSIBLE).

Y-STRAINER NOT PROVIDED BY STREIVOR UNLESS SPECIFICALLY INCLUDED IN PURCHASE ORDER.

PULL STATION (PART #551074)



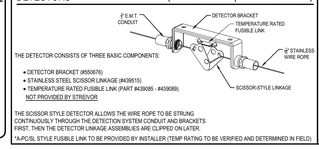
PULL STATION INSTALLATION



ELEVATION

DETECTORS

(Series #435546 | Terminal #435547)



THE DETECTOR CONSISTS OF THREE BASIC COMPONENTS:

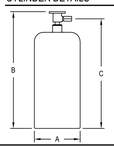
- DETECTOR BRACKET (#550676)
- STAINLESS STEEL SCISSOR LINKAGE (#439515)
- TEMPERATURE RATED FUSIBLE LINK (PART #435088 - #439089)

NOT PROVIDED BY STREIVOR

THE SCISSOR STYLE DETECTOR ALLOWS THE WIRE ROPE TO BE STRUNG CONTINUOUSLY THROUGH THE DETECTION SYSTEM CONDUIT AND BRACKETS FIRST. THEN THE DETECTION LINKAGE ASSEMBLIES ARE CLIPPED ON LATER.

*A-PC/SL STYLE FUSIBLE LINK TO BE PROVIDED BY INSTALLER (TEMP RATING TO BE VERIFIED AND DETERMINED IN FIELD)

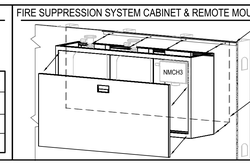
CYLINDER DETAILS



*CYLINDERS COME PRE-FILLED WITH EXTINGUISHING AGENT AND ARE CHARGED WITH DRY NITROGEN TO A PRESSURE OF 225 PSIG @ 70° F (15.5 BAR @ 21° C).

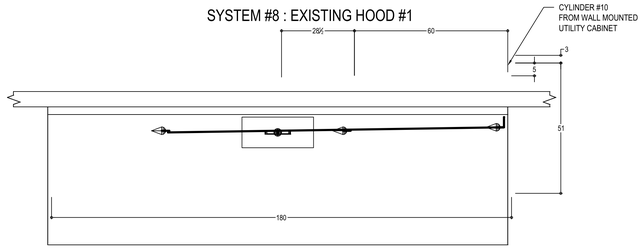
MODEL NO.	A	B	C	WEIGHT
PLC-160 (PART #550163)	8.00 IN	17.75 IN	15.44 IN	34 LBS.
PLC-300 (PART #551194)	8.00 IN	25.06 IN	22.75 IN	53 LBS.
PLC-460 (PART #551193)	10.00 IN	25.06 IN	22.75 IN	83 LBS.

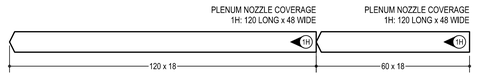
FIRE SUPPRESSION SYSTEM CABINET & REMOTE MOUNTED INSTALLATION



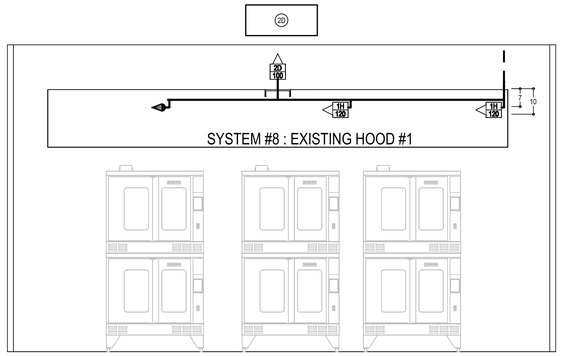
- 36" MINIMUM CLEARANCE REQUIRED IN FRONT OF THE REMOVABLE CABINET DOOR.
- SUPPORT BACKING REQUIRED IF CABINET MOUNTS TO WALL
- CABINET AND FIRE SUPPRESSION SYSTEM COMPONENTS APPROXIMATELY 100 LBS/FT. SEE PATH OF EGRESS DRAWING FOR CABINET DIMENSION(S).

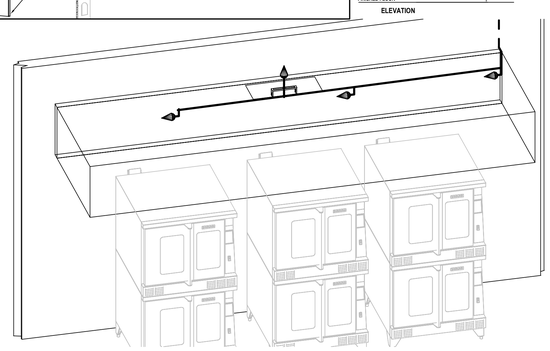
SYSTEM #8 : EXISTING HOOD #1





DUCT NOZZLE COVERAGE 2D: 100" PERIMETER

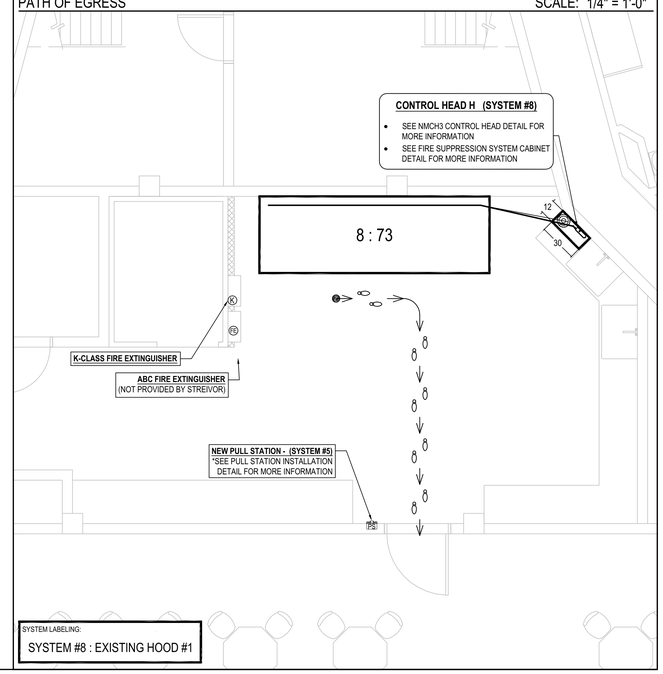




ALL FIRE SUPPRESSION SYSTEM PIPING TO BE FIELD INSTALLED BY A STREIVOR APPOINTED LICENSED FIRE SUPPRESSION SYSTEM INSTALLER

PATH OF EGRESS

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



SYSTEM LABELING:
SYSTEM #8 : EXISTING HOOD #1

INSTALLER:

GENERAL NOTES:

NOTES TO ARCHITECT AND/OR CONTRACTOR: STREIVOR, INC. (STREIVOR AIR SYSTEMS, STREIVOR STAINLESS) IS A SPECIALIST IN THE LAYOUT AND DESIGN OF KITCHEN VENTILATION SYSTEMS, AND IN NO WAY PURPORTS TO BE ARCHITECTS OR ENGINEERS.

THIS PLAN IS SUBMITTED FOR THE CONVENIENCE OF THE ARCHITECT AND/OR CONTRACTOR AND IS DONE FROM AVAILABLE ARCHITECTURAL INFORMATION. ALL MEASUREMENTS ARE SUBJECT TO PHYSICAL VERIFICATION AND ANY DEVIATIONS OR DISCREPANCIES SHALL BE DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN WRITING.

STREIVOR, INC. ACCEPTS NO RESPONSIBILITY FOR WORK DONE BY SAID ARCHITECT OR GENERAL CONTRACTOR OR THEIR REPRESENTATIVES OR SUBCONTRACTORS, AND WILL NOT STAND ANY EXPENSE FOR CHANGES MADE NECESSARY DUE TO LOCAL BUILDING CODES, ORDINANCES, STRUCTURAL CONDITIONS, OR BY ANY SUBSTITUTIONS OR CHANGES IN EQUIPMENT SHOWN ON THIS PLAN.

ANY ERRORS, AMBIGUITIES OR OMISSIONS IN THIS PLAN OR SPECIFICATIONS SHALL BE REPORTED TO STREIVOR, INC. FOR CORRECTIONS BEFORE ANY OF THE WORK IS STARTED. UNLESS EXPRESSLY STIPULATED, NO ADDITIONAL ALLOWANCE WILL BE MADE IN FAVOR OF THE OWNER OR CONTRACTOR BY VIRTUE OF ERROR, AMBIGUITY OR OMISSION WHICH MAY HAVE BEEN CONTAINED IN THE PLAN AND SPECIFICATIONS AND ESTIMATES, AND DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN A TIMELY MANNER.

CUSTOMER APPROVAL

COOKING EQUIPMENT VERIFICATION

VERIFY THE FOLLOWING:

HIGH BACK SHELVES	YES ☐	NO ☐
RANGE COOKING SURFACE DEPTH GREATER THAN 28"	YES ☐	NO ☐
PULL STATION LOCATION(S)	YES ☐	NO ☐
UTILITY CABINET LOCATION(S)	YES ☐	NO ☐
AGENT DISTRIBUTION HOSE AND RESTRAINING CABLE KIT	YES ☐	NO ☐
CEILING HEIGHT	___'-___"	

APPROVED BY DATE

NOTE TO REVIEWER:
ANY CHANGES IN COOKING EQUIPMENT SUCH AS EQUIPMENT POSITION, TYPE AND/OR INCREASE IN ENERGY OUTPUT MAY EFFECT EXHAUST AIRFLOW. STREIVOR AIR SYSTEMS MUST BE NOTIFIED OF ANY CHANGES THAT OCCUR PRIOR TO FABRICATION. A RE-ENGINEERING OF THE EXHAUST SYSTEM MAY BE REQUIRED AND ADDITIONAL COSTS MAY ARISE. FOR FIRE SUPPRESSION PRE-TEST IS NOT INCLUDED UNLESS SPECIFICALLY LISTED IN QUOTE.

PROJECT:
CDCR PELICAN BAY

5905 LAKE EARL DRIVE
CRESCENT CITY, CA 95531

THE MARSHALL ASSOCIATES

ITEM #:	74
SYSTEM #:	8
HOOD #:	73
DATE:	04/11/2023
DRAWN BY:	KCS
CHECKED BY:	SWB
CONSULTANT:	THE MARSHALL ASSOCIATES
SCALE: (UNLESS OTHERWISE NOTED)	1/2" = 1' - 0"
1" BAR DOES NOT MEASURE 1" THIS DRAWING IS NOT SCALED TO SCALE	

	DESCRIPTION	DATE	INT
1	PLAN CHECK COMMENTS	03/19/24	KCS
2	---	--/--/--	---
3	---	--/--/--	---
4	---	--/--/--	---
5	---	--/--/--	---

DRAWING:

F-09

SHEET 09 OF 11

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CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

The Marshall Associates, Inc.
Foodservice & Laundry Consultants/Designers
3000 Danville Blvd Suite F-344 Alamo, CA 94507
2129 4th Street Santa Rosa, CA 95404
415/677-1200 Fax 415/677-1210

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11/04/24
23-5898
Approval of this plan does not authorize or approve any omission or deviation from applicable requirements. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

REV.	DATE:	DESCRIPTION

STREIVOR™ AIR SYSTEMS
"STRIVING FOR EXCELLENCE"
2150 KITTY HAWK ROAD, LIVERMORE, CA 94551
PHONE: (925) 960-9090 FAX:(925) 960-9055
WWW.STREIVOR.COM

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS

HIBSER YAMAUCHI Architects, Inc.
4602 2nd Street, Suite #3
Davis, CA 95616
530.758.1270 office
530.758.4789 fax

LICENSED ARCHITECT KEVIN YAMAUCHI C-26566 02-28-2025 RENEWAL DATE STATE OF CALIFORNIA

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

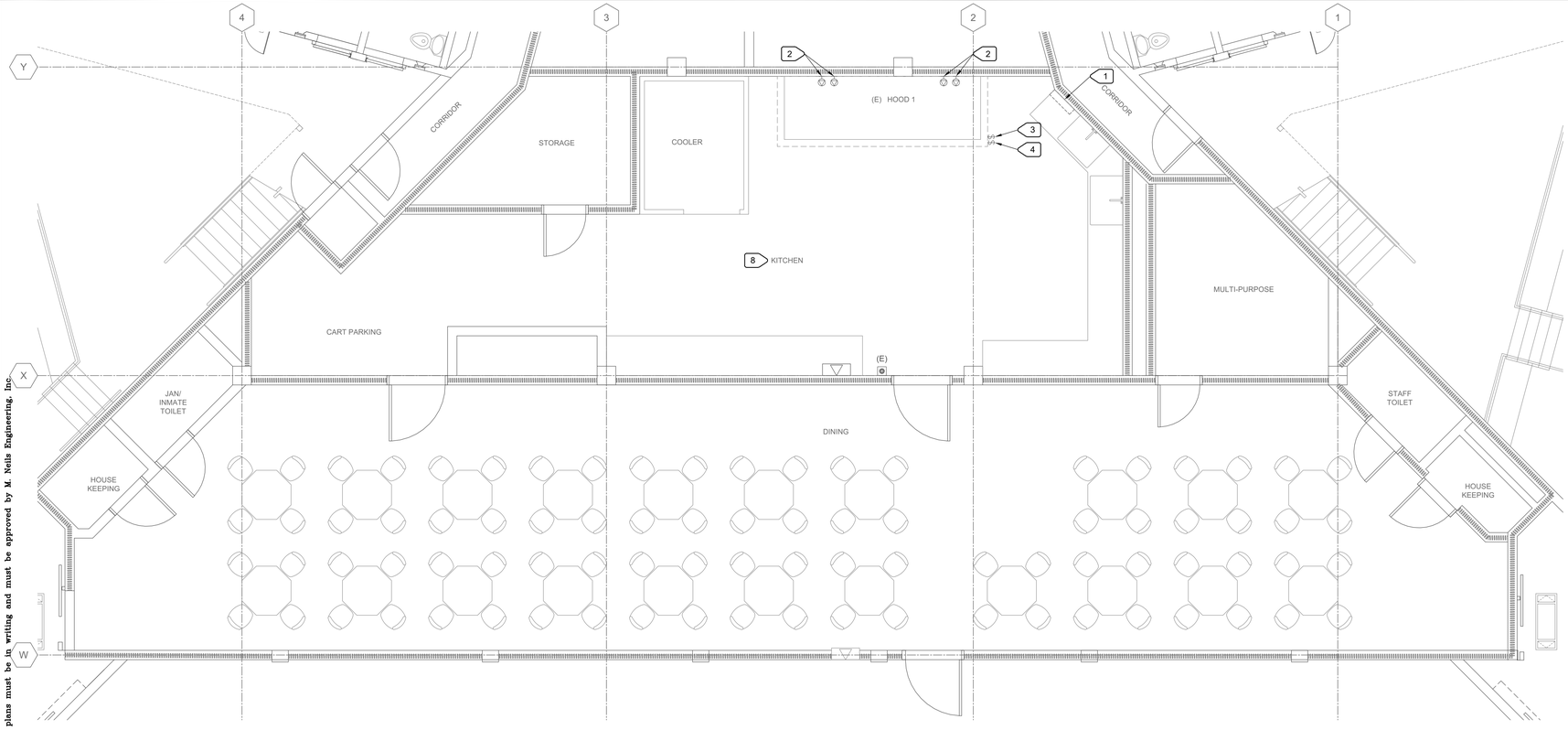
DATE: JULY 19, 2024

SHEET TITLE: BUILDING H05 B4 - ADMIN BUILDING FIRE SUPPRESSION MFR PLAN

CDCR Project Nos.: 20-034

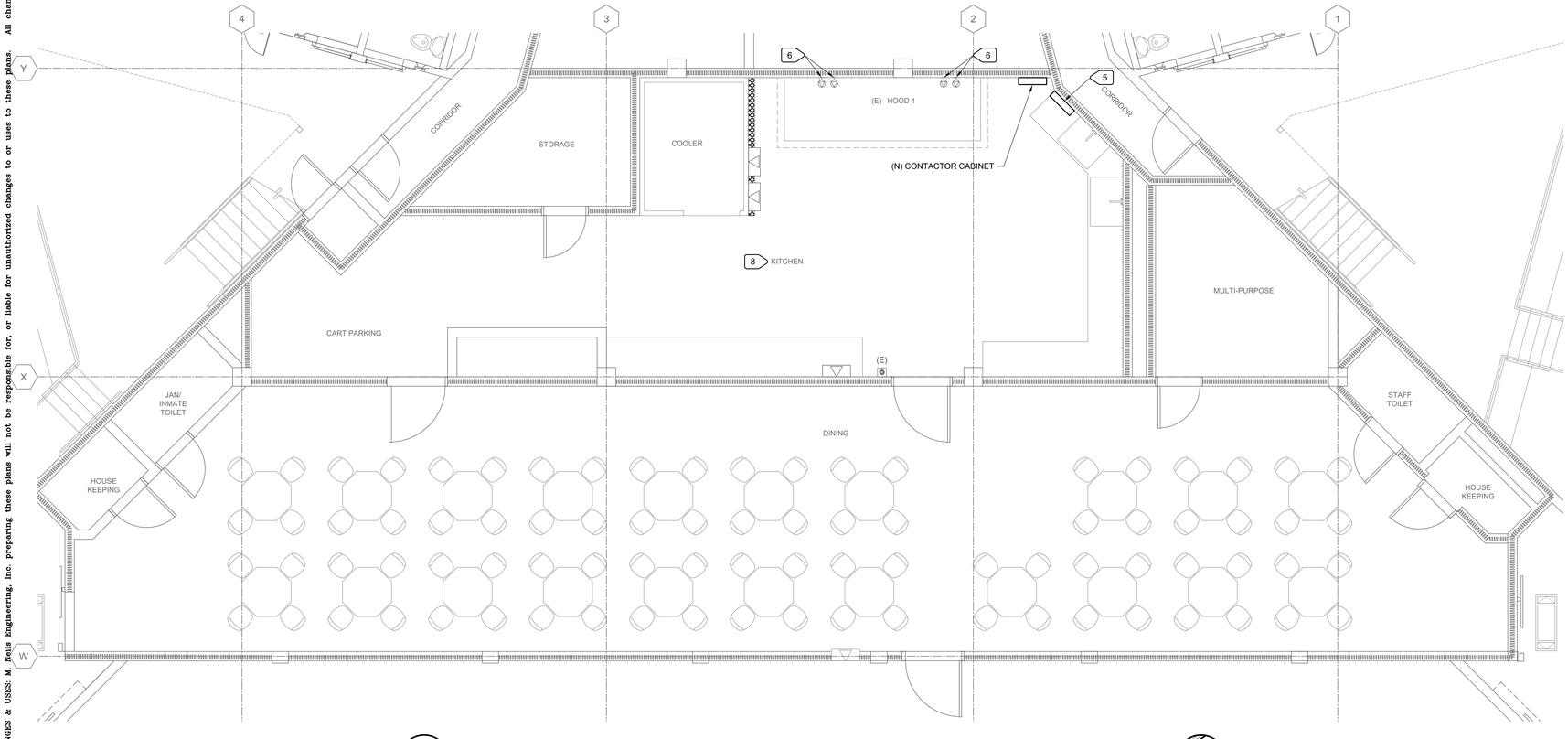
SHEET NUMBER
FS-I1.3

V3



1 E-I1.1 BUILDING H05 - B4 KITCHEN - ENLARGED PLAN - DEMOLITION - ELECTRICAL

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

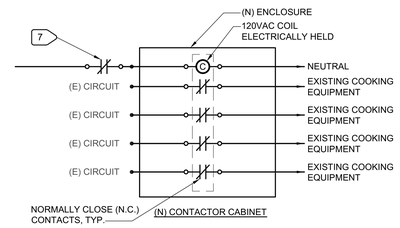


2 E-I1.1 BUILDING H05 - B4 KITCHEN - ENLARGED PLAN - REMODEL - ELECTRICAL

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

NUMBERED NOTES

1. EXISTING FIRE SUPPRESSION SYSTEM CONTROL PANEL TO BE REMOVED. DISCONNECT EXISTING 120V POWER CIRCUIT AND FIRE ALARM MONITORING CIRCUIT AND PROTECT FOR CONNECTION TO NEW PANEL.
2. EXISTING EQUIPMENT POWER RECEPTACLE TO REMAIN.
3. EXISTING HOOD LIGHT SWITCH TO REMAIN.
4. EXISTING HOOD FAN SWITCH TO REMAIN.
5. NEW FIRE SUPPRESSION SYSTEM CONTROL PANEL. RECONNECT TO EXISTING 120V POWER CIRCUIT AND FIRE ALARM MONITORING CIRCUIT. SEE DETAIL "1/E-0.1" ON SHEET E-0.1".
6. LOCATE AND INTERCEPT EXISTING EQUIPMENT POWER CIRCUIT AND RE-ROUTE THROUGH NEW CONTACTOR. SEE DETAIL"3/E-I1.1".
7. WHEN THE NORMALLY CLOSED (N.C.) AUXILIARY CONTACT IN FIRE SUPPRESSION SYSTEM CONTROL PANEL IS OPEN, THE ELECTRICALLY HELD CONTROL COIL IS DE-ENERGIZED AND THE N.C. CONTACTORS ARE OPENED, DE-ENERGIZING THE EQUIPMENT UNDER THE HOOD.
8. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND RATING OF FIRE RATED WALLS.



3 E-I1.1 CONTACTOR CABINET DIAGRAM

NO SCALE

CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

REGISTERED PROFESSIONAL ENGINEER
JESSE U. B4 STAFF
No. E20229
Exp. 03-31-25
ELECTRICAL
STATE OF CALIFORNIA
10/15/2024

M. NEILS
ENGINEERING, INC.
Electrical Engineers | Lighting Designers
100 Howe Ave., Suite 235N
Sacramento, CA 95825-8217
www.mneilsengineering.com
Tel: (916) 923-4400
PROJECT #: 22238.21
PROJECT MGR: Stuart Lindsay

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11/04/24
23-8888
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REV.	DATE:	DESCRIPTION

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS
Project No: 5892.00

HIBSER YAMAUCHI Architects, Inc.
4602 2nd Street, Suite #3
Davis, CA 95616
530.758.4279 office
530.758.4789 fax

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024
SHEET TITLE: BUILDING H05 - B4 KITCHEN - ENLARGED PLANS - DEMOLITION AND REMODEL - ELECTRICAL
CDCR Bldg. No.: 20-034

SHEET NUMBER
E-I1.1

V3

UNAUTHORIZED CHANGES & USES: M. Neils Engineering, Inc. preparing these plans will not be responsible for, or liable for unauthorized changes to or uses to these plans. All changes to these plans must be in writing and must be approved by M. Neils Engineering, Inc.

Oct 15, 2024 – 2:30pm, / kerlo

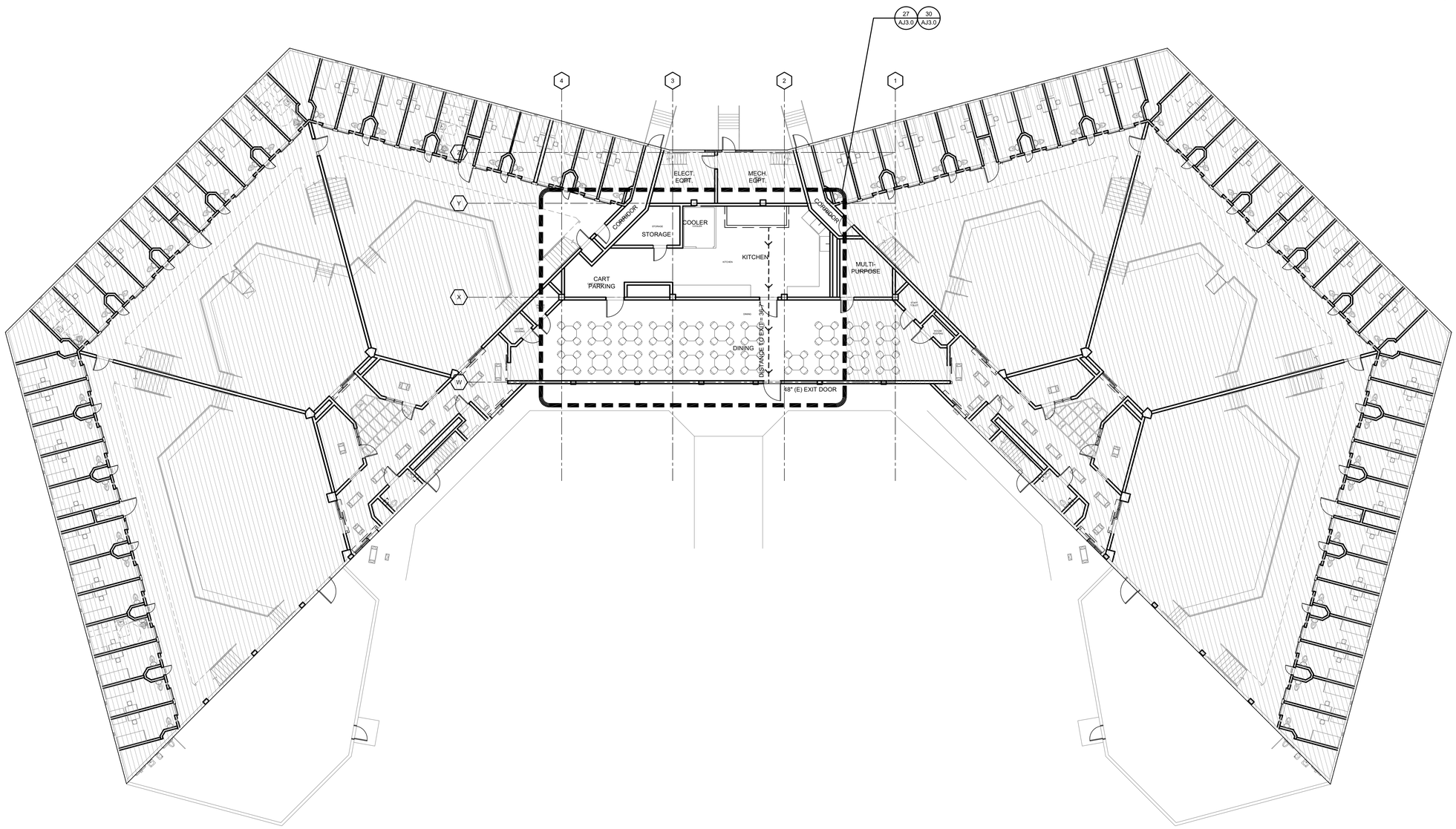
GENERAL NOTES

1. DESIGN, FURNISH, INSTALL AND TEST NEW FIRE SYSTEM.
2. FIELD VERIFY ALL EXISTING CONDITIONS AS NECESSARY FOR THE WORK. DRAWINGS WERE PRODUCED FROM FIELD NOTES.
3. NEW SUPPRESSION MANUAL PULL STATION TO BE WITHIN THE KITCHEN ROOM, BETWEEN 10FT TO 20FT FROM THE HOOD AND IN ROUTE THE EXIT DOOR.
4. NEW (K) CLASS FIRE EXTINGUISHER TO BE WITHIN 30FT FROM THE HOOD. IF NEEDED PROVIDE A SECOND EXTINGUISHER AS SHOWN IN DRAWINGS.
5. AFTER CONSTRUCTION IS COMPLETE, REPAIR ADJACENT SURFACES TO MATCH EXISTING IN PRE-CONSTRUCTION CONDITION. SEE DRAWINGS TO ENSURE PROPER FIRE RATING IS MAINTAINED.
6. NEW PULL STATIONS TO BE INSTALLED WITH OPERABLE PARTS NOT HIGHER THAN 48" AFF. PROVIDE ACCESSIBLE CLEARANCE IN FRONT OF THE PULL STATION.
7. NEW FIRE EXTINGUISHERS TO BE MOUNTED IN A CABINET WITH TOP SET AT 48" MAX. AFF. FOR RECESSED CABINET INSTALL SO IT DOES NOT PROTRUDE MORE THAN 4" OUT OF THE WALL, UON.
8. THE REMOVAL OF CONDUIT OR PIPING SHALL BE SEALED WITH LISTED OR EQUIVALENT LIQUID TIGHT SEALING DEVICES. (NFPA 96 SECTION: 10.2.7.2)
9. FOR STRUCTURAL ANCHORAGE FOR KITCHEN EQUIPMENT SEE SHEET S9.0 AND S9.1

LEGEND

AREA NOT IN SCOPE

PATH OF TRAVEL TO EXIT



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1334 1/8/2025
CASp-491

30 BUILDING H06 - B3 KITCHEN - OVERALL PLAN
SCALE: 3/32" = 1'-0"

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11/04/24
23-5898
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REV.	DATE:	DESCRIPTION

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS
Project No: 5892.00

HIBSER YAMAUCHI Architects, Inc.
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Davis, CA 95618
530.758.2770 office
530.758.4789 fax

LICENSED ARCHITECT
KEN YAMAUCHI
C-26566
02-28-2025
RENEWAL DATE
STATE OF CALIFORNIA

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

SHEET TITLE: BUILDING H06 B3 KITCHEN OVERALL PLAN

CDCR Project Nos.: 20-034

SHEET NUMBER
AJ2.0

V3

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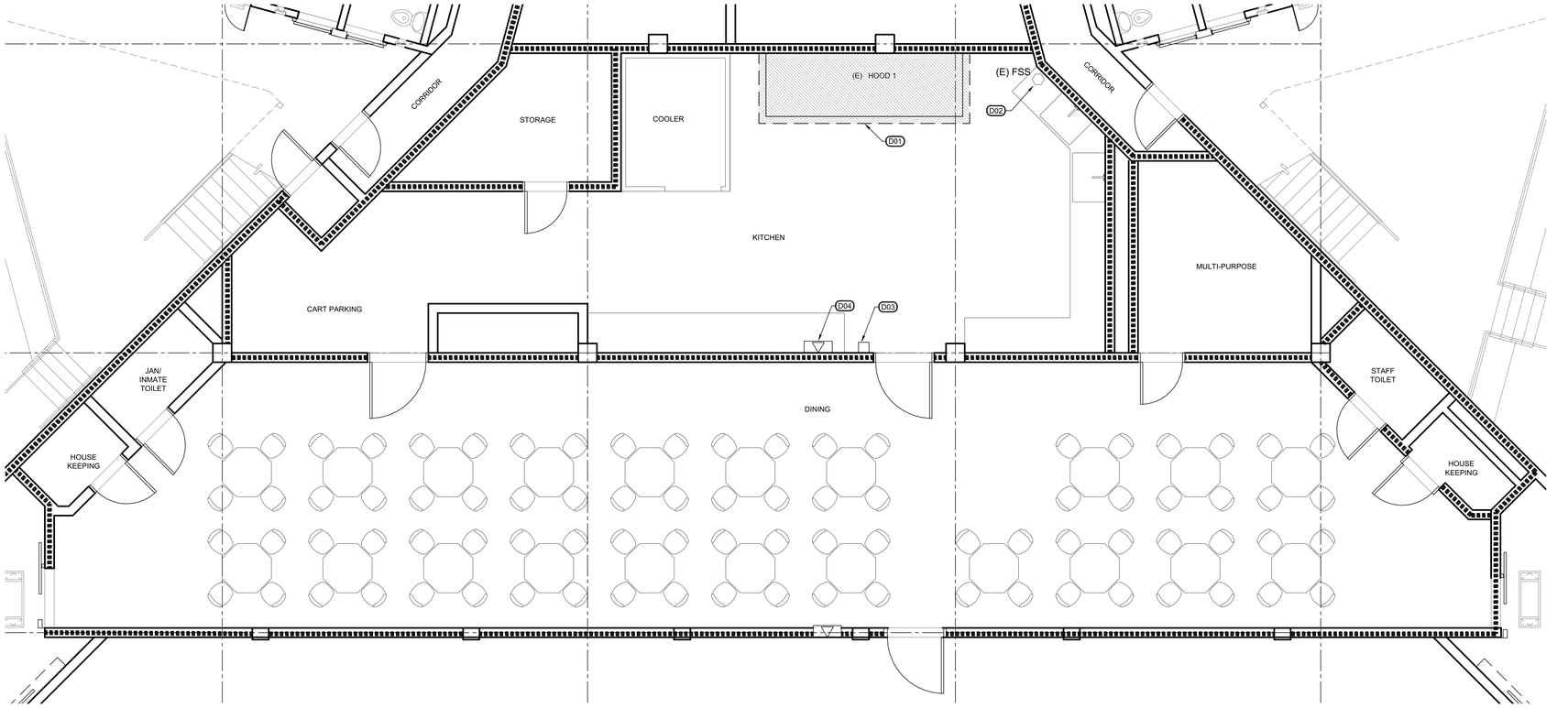
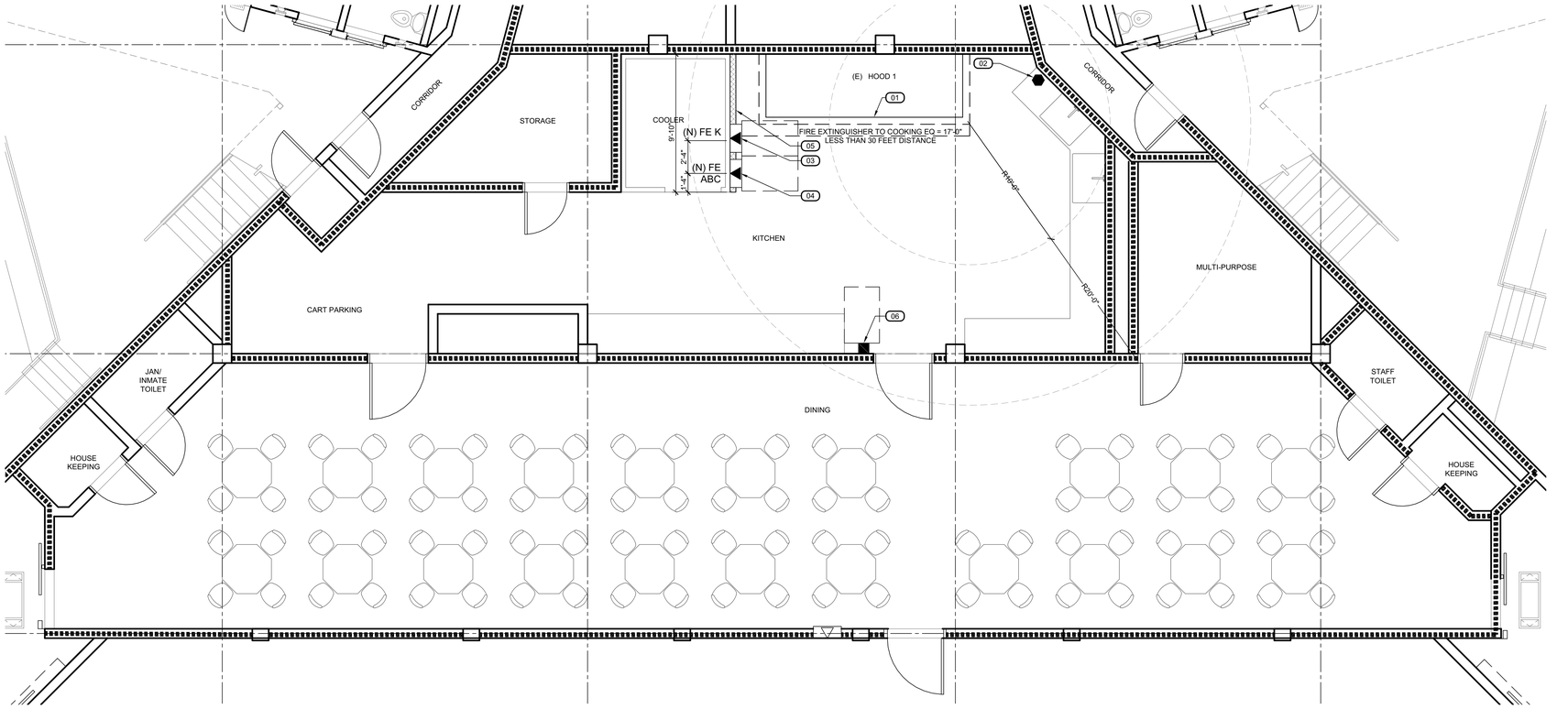


27 BUILDING H06 - B3 KITCHEN, ENLARGED PLAN - DEMOLITION

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

GRAPHIC SCALE: 0 1' 2' 4' 8' 12' 1/4" = 1'-0"



30 BUILDING H06 - B3 KITCHEN, ENLARGED PLAN - REMODEL

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

GRAPHIC SCALE: 0 1' 2' 4' 8' 12' 1/4" = 1'-0"

GENERAL NOTES

1. DESIGN, FURNISH, INSTALL AND TEST NEW FIRE SYSTEM.
2. FIELD VERIFY ALL EXISTING CONDITIONS AS NECESSARY FOR THE WORK. DRAWINGS WERE PRODUCED FROM FIELD NOTES.
3. NEW SUPPRESSION MANUAL PULL STATION TO BE WITHIN THE KITCHEN ROOM, BETWEEN 10FT TO 20FT FROM THE HOOD AND IN ROUTE THE EXIT DOOR.
4. NEW (K) CLASS FIRE EXTINGUISHER TO BE WITHIN 30FT FROM THE HOOD. IF NEEDED PROVIDE A SECOND EXTINGUISHER AS SHOWN IN DRAWINGS.
5. AFTER CONSTRUCTION IS COMPLETE, REPAIR ADJACENT SURFACES TO MATCH EXISTING IN PRE-CONSTRUCTION CONDITION. SEE DRAWINGS TO ENSURE PROPER FIRE RATING IS MAINTAINED.
6. NEW PULL STATIONS TO BE INSTALLED WITH OPERABLE PARTS NOT HIGHER THAN 48" AFF. PROVIDE ACCESSIBLE CLEARANCE IN FRONT OF THE PULL STATION.
7. NEW FIRE EXTINGUISHERS TO BE MOUNTED IN A CABINET WITH TOP SET AT 48" MAX. AFF. FOR RECESSED CABINET INSTALL SO IT DOES NOT PROTRUDE MORE THAN 4" OUT OF THE WALL, UON.
8. THE REMOVAL OF CONDUIT OR PIPING SHALL BE SEALED WITH LISTED OR EQUIVALENT LIQUID TIGHT SEALING DEVICES. (NFPA 96 SECTION: 10.2.7.2)
9. FOR STRUCTURAL ANCHORAGE FOR KITCHEN EQUIPMENT SEE SHEET S9.0 AND S9.1

WALL LEGEND

	(N) FURRING WALL. SEE DETAIL 12/A9.0
	(E) CMU WALL

DEMOLITION LEGEND

	EXISTING KITCHEN HOOD TO REMAIN. ANSUL SYSTEM TO BE REPLACED. SEE FS DRAWINGS FOR DETAILS AND EQUIPMENT LAYOUT.
FSS	(E) FIRE SUPPRESSION SYSTEM CONTROL BOX
FEC	(E) FIRE EXTINGUISHING CABINET WITH FIRE HOSE AND FIRE EXTINGUISHER INSIDE.
PS	(E) PULL STATION LOCATION AND SIGN INDICATING ANSUL SYSTEM NUMBER. SEE GENERAL NOTES AND FS DRAWINGS.
FE (ABC)	(E) ABC-CLASS PORTABLE FIRE EXTINGUISHER
FE (K)	(E) K-CLASS PORTABLE FIRE EXTINGUISHER

REMODEL LEGEND

FSS	(N) FIRE SUPPRESSION SYSTEM CONTROL BOX
	DISTANCE (30 FEET MAXIMUM UNOBSTRUCTED FROM COOKING EQUIPMENT TO FIRE EXTINGUISHER.
FE (ABC)	(N) ABC-CLASS PORTABLE FIRE EXTINGUISHER
FE (K)	(N) K-CLASS PORTABLE FIRE EXTINGUISHER

DEMOLITION KEYNOTES

- D01 (E) KITCHEN HOOD TO REMAIN. ANSUL SYSTEM TO BE REPLACED. SEE FS DRAWINGS .
- D02 (E) FIRE SUPPRESSION SYSTEM CONTROL BOX TO BE REPLACED. SEE FS DRAWING.
- D03 REMOVE (E) PULL STATION. PATCH, REPAIR AND PAINT ADJACENT SURROUNDINGS TO MATCH (E) CONDITIONS.
- D04 REMOVE (E) FIRE EXTINGUISHER CABINET. PATCH, REPAIR AND PAINT ADJACENT SURROUNDINGS TO MATCH (E) CONDITIONS.

REMODEL KEYNOTES

- 01 ANSUL SYSTEM TO BE REPLACED. SEE FS DRAWINGS FOR DETAILS AND EQUIPMENT LOCATIONS.
- 02 (N) FIRE SUPPRESSION SYSTEM CONTROL BOX. SEE FS DRAWINGS.
- 03 (N) RECESSED FIRE EXTINGUISHER CABINET EQUIPPED W/ K CLASS FIRE EXTINGUISHER. SEE DETAIL 1/A9.0 & FS DRAWINGS FOR SIZING
- 04 (N) RECESSED FIRE EXTINGUISHER CABINET EQUIPPED W/ ABC CLASS FIRE EXTINGUISHER, SIZE 2A. SEE DETAIL 1/A9.0
- 05 (N) FURRING WALL, SEE DETAIL 12/A9.0
- 06 (N) PULL STATION. SEE FS DRAWINGS. ENSURE MIN. 15" CLEARANCE BETWEEN CENTER OF PULL STATION AND COUNTER FOR ADA ACCESS

CDCR ACCESS COMPLIANCE

1334 1/8/2025
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23-5898
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STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project No: 5892.00
Project Phase: FNAL DRAWINGS

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Davis, CA 95618
530.758.1270 office
530.758.4789 fax

LICENSED ARCHITECT
KEN YAMAUCHI
C-26566
02-28-2025
RENEWAL DATE
STATE OF CALIFORNIA

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

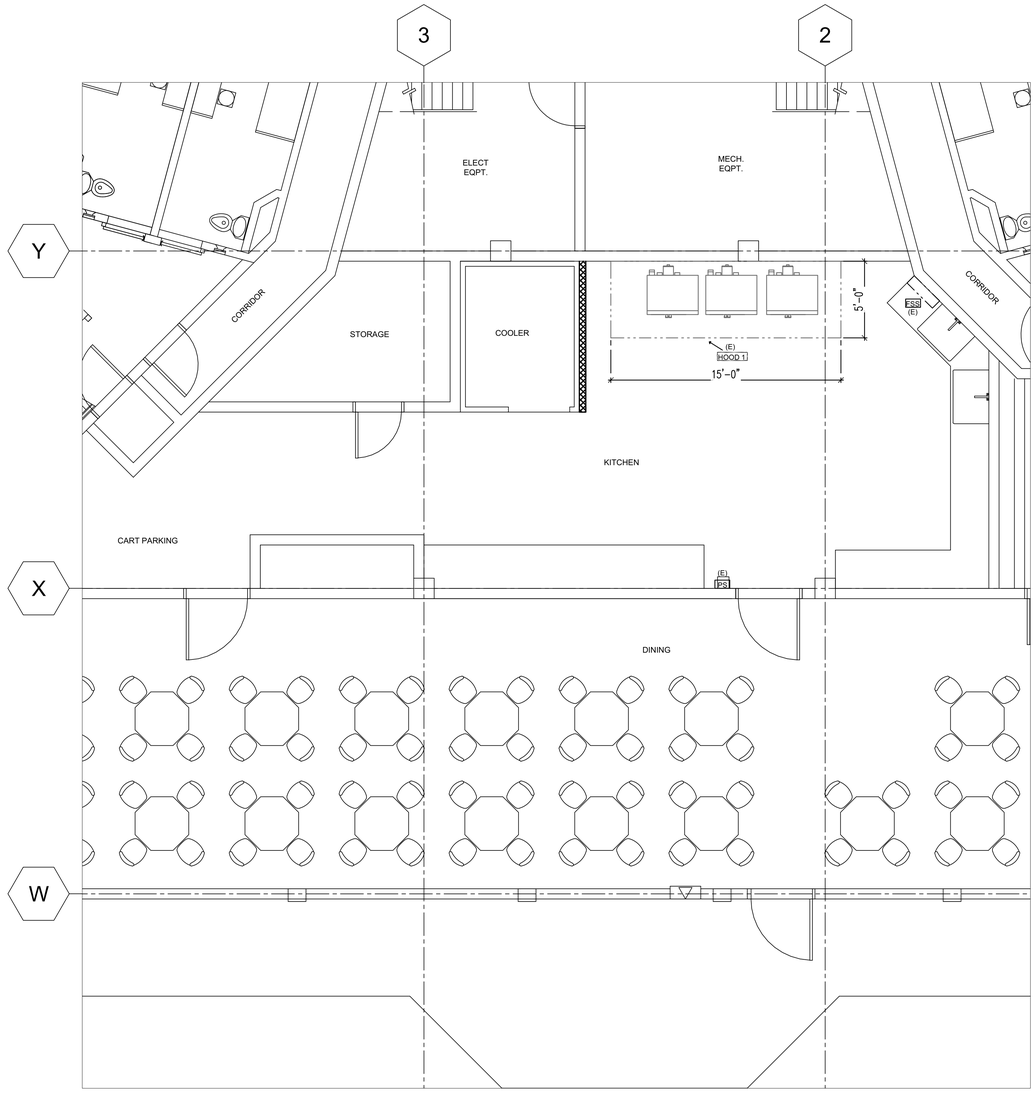
SHEET TITLE: BUILDING H06, B3 KITCHEN
ENLARGED PLANS - DEMOLITION AND REMODEL

CDCR 20-024
Nos.:

SHEET NUMBER
AJ3.0

V3

2/14/2024 2:09 PM



30 BLDG H06 B3 HOUSING UNIT - FIRE SUPPRESSION DEMO PLAN

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

GENERAL NOTES:

A. ALL EQUIPMENT TO HAVE NSF, ETL SANITATION OR UL SANITATION APPROVALS.

B. INSTALLATION TO MEET CALIFORNIA RETAIL FOOD CODE (CRFC) LATEST EDITION.

FIRE SUPPRESSION CONTRACTOR TO:

A. REMOVE EXISTING FIRE SUPPRESSION SYSTEM AND ALL COMPONENTS.

B. REFER TO ARCHITECTURAL DRAWING SHEET NOTES FOR NOTES AND GUIDELINES REGARDING EXISTING CONDITION GUIDELINES

SYMBOLS

(E) FSS EXISTING FIRE SUPPRESSION SYSTEM; TO BE REMOVED

(E) PS EXISTING FIRE PROTECTION PULL BOX; TO BE REMOVED

CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

The Marshall Associates, Inc.
Foodservice & Laundry Consultants/Designers
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2129 4th Street Santa Rosa, CA 95404
415/677-1200 Fax 415/677-1210

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION

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FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS
Project No: 5892.00

HIBSER YAMAUCHI Architects, Inc.
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530.758.2720 office
530.758.4789 fax

LICENSED ARCHITECT KEN YAMAUCHI C-26566 02-28-2025 RENEWAL DATE STATE OF CALIFORNIA

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REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

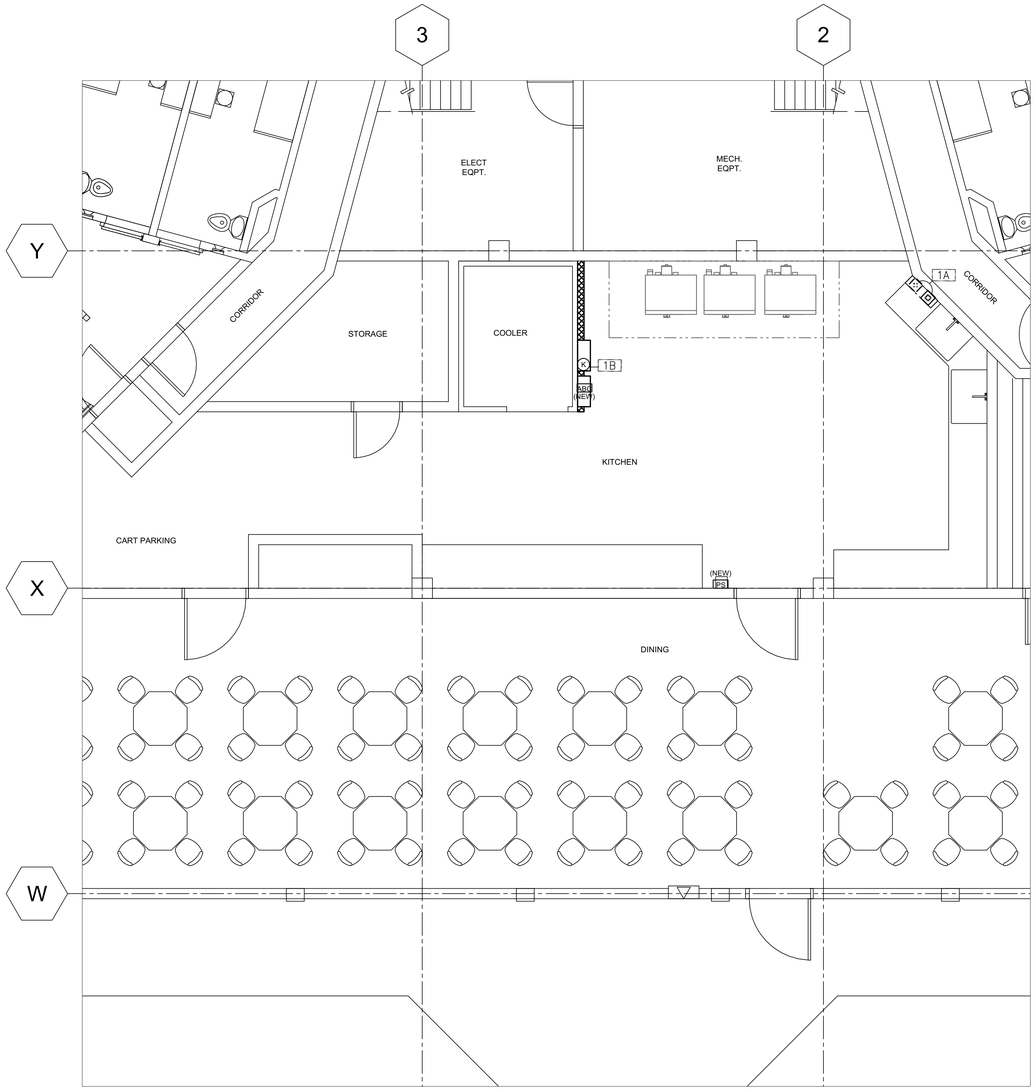
DATE: JULY 19, 2024

SHEET TITLE: BUILDING H06 - B3 KITCHEN
FIRE SUPPRESSION DEMO PLAN

CDCR 20-034
Job Nos.:

SHEET NUMBER
FS-J1.1

V3



30 BLDG H06 B3 HOUSING UNIT - FIRE SUPPRESSION NEW EQUIPMENT PLAN

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

EQUIPMENT SCHEDULE

ITEM	QTY	DESCRIPTION	MANUFACTURER	MODEL NUMBER	NOTES
1	1	EXHAUST HOOD (TYPE-I)	EXISTING; IN PLACE	NOT PART OF FSEC CONTRACT	NIC
1A	1	FIRE PROTECTION SYSTEM	STREVOR AIR SYSTEMS	PYRO-CHEM KITCHEN KNIGHT II	
1B	1	CLASS K FIRE EXTINGUISHER	BUCKEYE	WC-6L	
A	3	ELECTRIC CONVECTION OVEN	VULCAN (EXISTING)	ER-10 (EXISTING)	NIC
B	1	14 GA S/S WALL FLASHING	EXISTING	NOT PART OF FSEC CONTRACT	NIC

ABBREVIATIONS:

FSEC	FOODSERVICE EQUIPMENT CONTRACTOR
S/S	STAINLESS STEEL
NIC	NOT IN CONTRACT
CKT	CIRCUIT

ELECTRICAL ROUGH-IN

ITEM	QTY	DESCRIPTION	CONNECTED LOAD 120/1	120/208/1	120/208/3	208/1	208/3	480/3	HT	CONNECTION TYPE C&P	RECP	HW
1	1	EXHAUST HOOD (TYPE-I)										
1A	1	FIRE PROTECTION SYSTEM	20A CKT						FA			*
1B	1	CLASS K FIRE EXTINGUISHER										

ABBREVIATIONS:

C&P	CORD AND PLUG	CKT	CIRCUIT
RECP	RECEPTACLE	E	EXISTING
HW	HARDWIRE		
HT	HEIGHT		
FA	FROM ABOVE		

SCHEDULE / DRAWING NOTES:

CONNECTED LOAD = EACH CONNECTION SHOWN ON DRAWING

CONNECTION TYPES PROVIDED BY ELECTRICAL DIVISION

SHEET NOTES

FIRE SUPPRESSION CONTRACTOR TO PROVIDE:

A. WORK AS DESCRIBED IN CONTRACT DOCUMENTS AND SUPPLEMENTAL REQUIREMENTS PER FIRE SUPPRESSION EQUIPMENT SECTION.

B. ROUGH-IN AND FINAL CONNECTION TO ALL FIRE SUPPRESSION EQUIPMENT AS INDICATED ON DRAWINGS AND IN ELECTRICAL ROUGH-IN SCHEDULE.

C. ALL JUNCTION-BOXES, ELECTRICAL OUTLETS, COVER PLATES, SWITCHES NOT BUILT INTO FIXTURES OR EQUIPMENT.

D. SHUNT TRIP CIRCUIT BREAKERS FOR ALL FOODSERVICE EQUIPMENT BELOW EXHAUST HOODS.

E. INCLUDE DORMONT POSI-SET CASTER PLACEMENT SAFETY SYSTEM FOR ALL EXISTING MOBILE COOKING EQUIPMENT BELOW EXISTING HOODS AFTER NEW FIRE SUPPRESSION SYSTEM HAS BEEN INSTALLED. SEE S9.1 FOR DETAIL

F. ALL OTHER EXISTING EQUIPMENT TO BE ANCHORED PER REQUIREMENTS SHOWN ON S9.1

INTERCONNECTION BETWEEN:

A. FIRE PROTECTION SYSTEM AND BUILDING LIFE SAFETY.

SYMBOLS

PS — NEW FIRE PROTECTION PULL BOX – OCTAGONAL BOX 48" AFF WITH CONDUIT TO CEILING – PYRO CHEM KITCHEN KNIGHT II MODEL RPS-M

ABC — NEW ABC FIRE EXTINGUISHER SEE SHEET AA3.0 FOR MAKE/MODEL

K — NEW TYPE K FIRE EXTINGUISHER BUCKEYE; MODEL WC-6L

JUNCTION BOX ROUGH-IN

JUNCTION BOX CONNECTION PROVIDED IN EQUIPMENT

CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

The Marshall Associates, Inc.
Foodservice & Laundry Consultants/Designers
3000 Danville Blvd Suite F-344 Alamo, CA 94507
2129 4th Street Santa Rosa, CA 95404
415/677-1200 Fax 415/677-1210

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
11/04/24
23-8898

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

REV.	DATE:	DESCRIPTION

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS
Project No.: 5892.00

HIBSER YAMAUCHI Architects, Inc.
4602 2nd Street, Suite #3
Davis, CA 95618
530.758.1290 office
530.758.4789 fax

LICENSED ARCHITECT
KEN YAMAUCHI
C-26566
02-28-2025
RENEWAL DATE
STATE OF CALIFORNIA

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

SHEET TITLE: BUILDING H02 - A2 KITCHEN
FIRE SUPPRESSION NEW EQUIPMENT PLAN

CDCR Job Nos.: 20-034

SHEET NUMBER

FS-J1.2

V3

LISTINGS & STANDARDS

THIS WET CHEMICAL EXTINGUISHING SYSTEM IS ENGINEERED TO PROVIDE FIRE PROTECTION FOR RESTAURANT HOODS, DUCTS AND COOKING APPLIANCES, IS **UL 300** LISTED AND IS TO BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS:

- NFPA 17A 2021 EDITION
- NFPA 10 2018 EDITION
- NFPA 96 2021 EDITION

SECTIONS & CODES

NFPA 10 2018 EDITION

(5.6.2) MAXIMUM TRAVEL DISTANCE SHALL NOT EXCEED 30 FT (9.1 M) FROM THE HAZARD TO THE EXTINGUISHER(S)

NFPA 17A 2021 EDITION

(5.2.1.10.1) EACH MANUAL ACTUATION DEVICE SHALL BE INSTALLED NO MORE THAN 48 IN. (1200 MM) AND NO LESS THAN 42 IN. (1067 MM) ABOVE THE FLOOR.

NFPA 96 2021 EDITION

(8.2.3.1) A HOOD EXHAUST FAN(S) SHALL CONTINUE TO OPERATE AFTER THE EXTINGUISHING SYSTEM HAS BEEN ACTIVATED UNLESS FAN SHUTDOWN IS REQUIRED BY A LISTED COMPONENT OF THE VENTILATION SYSTEM OR BY THE DESIGN OF THE EXTINGUISHING SYSTEM.

(8.2.3.2) THE HOOD EXHAUST FAN SHALL START UPON ACTIVATION OF THE EXTINGUISHING SYSTEM IF THE EXHAUST FAN AND ALL COOKING EQUIPMENT SERVED BY THE FAN HAVE BEEN SHUT DOWN, UNLESS FAN SHUTDOWN IS REQUIRED BY A LISTED COMPONENT OF THE VENTILATION SYSTEM OR BY THE LISTING OF THE EXTINGUISHING SYSTEM.

(8.3.2) WHEN THE FIRE-EXTINGUISHING SYSTEM ACTIVATES, MAKEUP AIR SUPPLIED INTERNALLY TO A HOOD SHALL BE SHUT OFF.

(10.4.1) UPON ACTIVATION OF ANY FIRE EXTINGUISHING SYSTEM FOR A COOKING OPERATION, ALL ~~SOURCES OF FUEL~~ AND ELECTRICAL POWER THAT PRODUCE HEAT TO ALL EQUIPMENT REQUIRING PROTECTION BY THAT SYSTEM SHALL AUTOMATICALLY SHUT OFF.

(10.4.3) ~~GAS APPLIANCE NOT REQUIRING PROTECTION BUT LOCATED UNDER VENTILATING EQUIPMENT WHERE PROTECTED APPLIANCES ARE LOCATED SHALL BE AUTOMATICALLY SHUT OFF UPON ACTIVATION OF THE EXTINGUISHING SYSTEM~~

(10.4.4) SHUTOFF DEVICE SHALL REQUIRE MANUAL RESETTING PRIOR TO FUEL / POWER BEING RESTORED

(10.5.1.1) AT LEAST ONE MANUAL ACTUATION DEVICE SHALL BE LOCATED IN A MEANS OF EGRESS OR AT A LOCATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.

(10.5.1.2) THE MANUAL ACTUATION DEVICE SHALL CLEARLY IDENTIFY THE HAZARD PROTECTED.

CMC 2022 EDITION

(513.5) ALL SYSTEMS SHALL HAVE BOTH AUTOMATIC AND MANUAL METHODS OF ACTUATION. AT LEAST ONE MANUAL ACTUATION DEVICE SHALL BE LOCATED IN A MEANS OF EGRESS OR AT A LOCATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.

INSTALLATION REQUIREMENTS

1. ALL PIPE SHALL BE SCHEDULE 40 BLACK IRON. CHROME PLATED/SLEEVED WHERE EXPOSED.
2. ALL CYLINDER SYSTEMS SHALL HAVE 3/8" SUPPLY LINES AND 3/8" BRANCH LINES.
3. ALL WIRE ROPE SHALL BE 1/16" STAINLESS STEEL AND RUN THROUGH 1/2" EMT CONDUIT.
4. U.L. LISTED CORNER PULLEYS REQUIRED WHENEVER THE STAINLESS STEEL CABLE DIRECTION CHANGES.
5. ALL EQUIPMENT WITH FIRE PROTECTION MUST BE SECURED TO FLOOR. (NOT BY STREIVOR)
6. SWIVEL ADAPTERS MAY BE ADDED TO NOZZLES FOR UP TO 30° ROTATION.

SYSTEM #9

PAGE NUMBERS REFERENCED FROM THE PYROCHEM FIRE SUPPRESSION SYSTEM TECHNICAL MANUAL

CABLE/LINE LIMITATIONS - CONTROL HEAD J

		LENGTH		PULLEYS	BRACKETS
FUSIBLE LINK (pg. 4-5)	MAXIMUM	150.00	FT	40	20
	ALLOTTED	20.00	FT	4	1*
PULL STATION(S) (pg. 4-9)	MAXIMUM	150.00	FT	40	N/A
	ALLOTTED	45.00	FT	2	N/A
GAS VALVE(S) (pg. 4-10)	MAXIMUM	100.00	FT	30	N/A
	ALLOTTED	--.--	FT	--	N/A

*ML STYLE FUSIBLE LINK INCLUDED WITH SYSTEM (NOT SUPPLIED BY STREIVOR). FUSIBLE LINK TEMPERATURE RATING TO BE VERIFIED AND DETERMINED IN FIELD.

CYLINDER #11

COVERAGE DESCRIPTION	NOZZLE	QTY.	FLOW POINTS	PAGE
DUCT	2D	1	2	3-1
PLENUM	1H	2	2	3-3

MODEL	FLOW POINTS			
PCL-300	4	ALLOTTED	10	MAXIMUM

TOTAL				FIRST TO LAST NOZZLE			
LENGTH**		VOLUME		LENGTH**		VOLUME	
36.00	FT	1350	ML	28.00	FT	1050	ML

CYLINDER #-

COVERAGE DESCRIPTION	NOZZLE	QTY.	FLOW POINTS	PAGE

MODEL	FLOW POINTS		
		ALLOTTED	MAXIMUM

TOTAL				FIRST TO LAST NOZZLE			
LENGTH**		VOLUME		LENGTH**		VOLUME	
FT		ML		FT		ML	

CYLINDER/PIPING LIMITATIONS

CYLINDER	FLOW POINTS	TOTAL				FIRST TO LAST NOZZLE			
		LENGTH*		VOLUME		LENGTH*		VOLUME	
PCL-460	15	69.33	FT	2600	ML	53.33	FT	2000	ML
PCL-460	14	90.67	FT	3400	ML	80.00	FT	3000	ML
PCL-300	10	50.93	FT	1910	ML	30.00	FT	1125	ML
PCL-160	5	40.00	FT	1500	ML	16.00	FT	600	ML

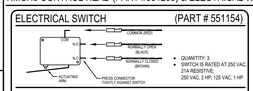
** CALCULATIONS BASED ON 3/8" PIPE (37.5 ML/FT) (SEE pg. 3-18)

LEGEND

- PATH OF EGRESS
- DETECTION LINE ROUTE
- K-CLASS FIRE EXTINGUISHER (NOT SUPPLIED BY STREIVOR)
- GAS VALVE
- PULL STATION
- RESET RELAY
- CONTROL HEAD
- DETECTOR BRACKET (FRONT VIEW)
- DETECTOR BRACKET (PLAN VIEW)
- NOZZLE COVERAGE
- PAC-10 PNEUMATIC TUBING
- FIELD PIPING
- FIELD WIRING NOT BY STRIEVOR
- DUCT NOZZLE MAX PERIMETER
- PLENUM NOZZLE MAX PLENUM LENGTH
- APPLIANCE NOZZLE AND HEIGHT
- DOWNWARD FACING NOZZLE
- ANGLED NOZZLE AND TARGET LOCATION

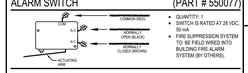
NMCH3 CONTROL HEAD (PART #551203) & ELECTRICAL WIRING

ELECTRICAL SWITCH (PART # 551154)



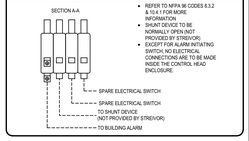
- QUANTITY: 3
- SWITCH IS RATED AT 250 VAC, 21A RESISTIVE; 250 VAC, 2 HP; 125 VAC, 1 HP

ALARM SWITCH (PART # 550077)

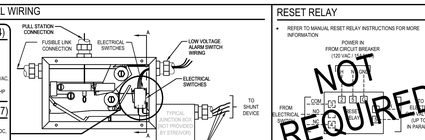


- QUANTITY: 1
- SWITCH IS RATED AT 28 VDC, 50 mA
- FIRE SUPPRESSION SYSTEM TO BE FIELD WIRED INTO BUILDING FIRE ALARM SYSTEM (BY OTHERS).

ELECTRICAL SWITCH WIRING



- REFER TO NFPA 96 CODES 8.3.2 & 10.4.1 FOR MORE INFORMATION
- SHUNT DEVICE TO BE NORMALLY OPEN (NOT PROVIDED BY STREIVOR)
- EXCEPT FOR ALARM INITIATING SWITCH, NO ELECTRICAL CONNECTIONS ARE TO BE MADE INSIDE THE CONTROL HEAD ENCLOSURE.



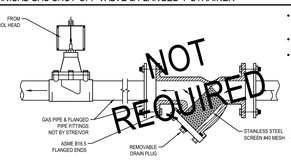
- EXCEPT FOR ALARM INITIATING SWITCH, NO ELECTRICAL CONNECTIONS ARE TO BE MADE INSIDE THE CONTROL HEAD ENCLOSURE.

RESET RELAY

- REFER TO MANUAL RESET RELAY INSTRUCTIONS FOR MORE INFORMATION

MECHANICAL GAS SHUT-OFF VALVE & FLANGED Y-STRAINER

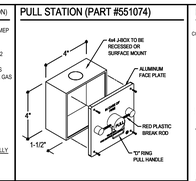
(SEE MEP DRAWINGS FOR LOCATION)



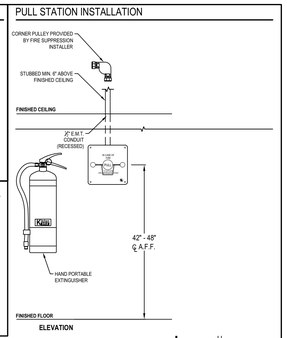
- GAS SHUT-OFF VALVE(S) TO BE SIZED AND LOCATED PER MEP DRAWINGS
  (MAXIMUM VALVE SIZE: 3" NPT)
- VALVE(S) AND STRAINERS TO BE INSTALLED BY DIVISION 22 (PLUMBING)
- Y-STRAINER REQUIRED FOR THE PROTECTION OF THE GAS VALVE. INSTALL A Y-STRAINER ON THE INLET SIDE OF THE GAS VALVE (AS CLOSE AS POSSIBLE).

Y-STRAINER NOT PROVIDED BY STREIVOR UNLESS SPECIFICALLY INCLUDED IN PURCHASE ORDER.

PULL STATION (PART #551074)

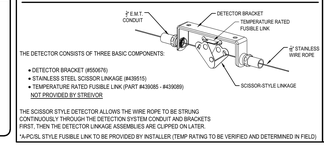


PULL STATION INSTALLATION



DETECTORS

(Series #435546 | Terminal #435547)



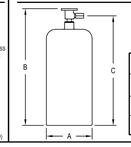
THE DETECTOR CONSISTS OF THREE BASIC COMPONENTS:

- DETECTOR BRACKET (#550676)
- STAINLESS STEEL SCISSOR LINKAGE (#439515)
- TEMPERATURE RATED FUSIBLE LINK (PART #435085 - #439089)
  NOT PROVIDED BY STREIVOR

THE SCISSOR STYLE DETECTOR ALLOWS THE WIRE ROPE TO BE STRUNG CONTINUOUSLY THROUGH THE DETECTION SYSTEM CONDUIT AND BRACKETS FIRST. THEN THE DETECTOR LINKAGE ASSEMBLIES ARE CLIPPED ON LATER.

*A-PC/SL STYLE FUSIBLE LINK TO BE PROVIDED BY INSTALLER (TEMP RATING TO BE VERIFIED AND DETERMINED IN FIELD)

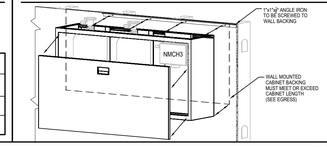
CYLINDER DETAILS



*CYLINDERS COME PRE-FILLED WITH EXTINGUISHING AGENT AND ARE CHARGED WITH DRY NITROGEN TO A PRESSURE OF 225 PSIG @ 70° F (15.5 BAR @ 21° C).

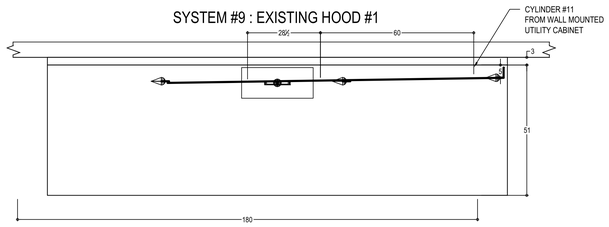
MODEL NO.	A	B	C	WEIGHT
PLC-160 (PART #550163)	8.00 IN	17.75 IN	15.44 IN	34 LBS.
PLC-300 (PART #551194)	8.00 IN	25.06 IN	22.75 IN	53 LBS.
PLC-460 (PART #551193)	10.00 IN	25.06 IN	22.75 IN	83 LBS.

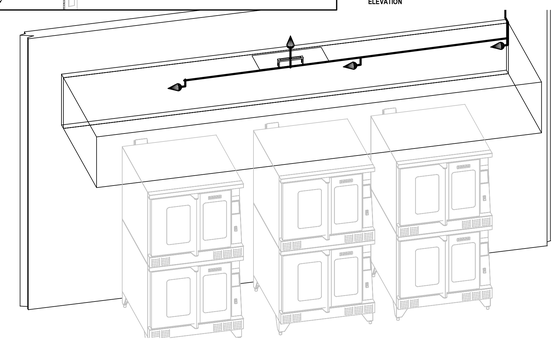
FIRE SUPPRESSION SYSTEM CABINET & REMOTE MOUNTED INSTALLATION

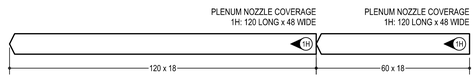


- 36" MINIMUM CLEARANCE REQUIRED IN FRONT OF THE REMOVABLE CABINET DOOR.
- SUPPORT BACKING REQUIRED IF CABINET MOUNTS TO WALL
- CABINET AND FIRE SUPPRESSION SYSTEM COMPONENTS APPROXIMATELY 100 LBS/FT. SEE PATH OF EGRESS DRAWING FOR CABINET DIMENSION(S).

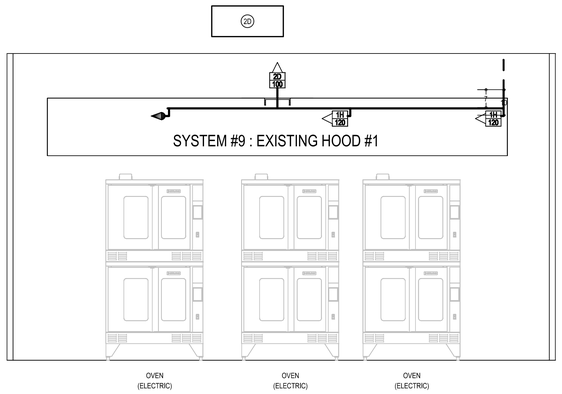
SYSTEM #9 : EXISTING HOOD #1







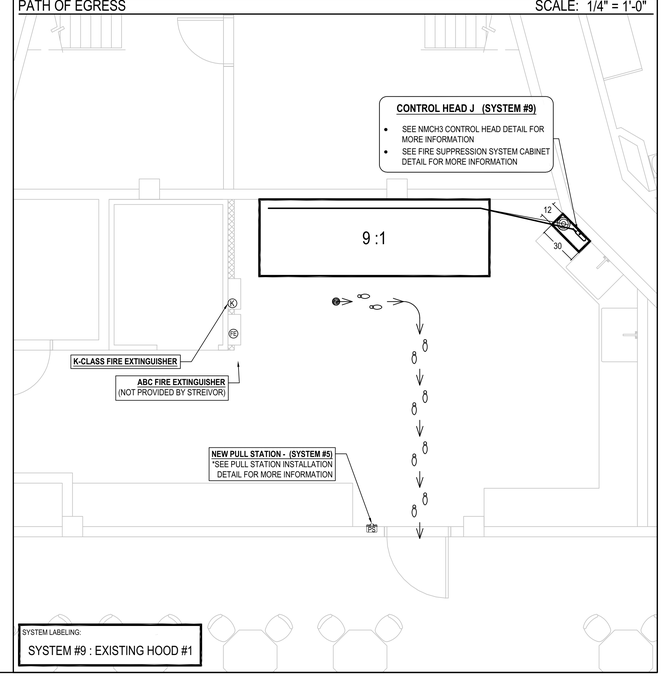
DUCT NOZZLE COVERAGE
2D: 100" PERIMETER



ALL FIRE SUPPRESSION SYSTEM PIPING TO BE FIELD INSTALLED BY A STREIVOR APPOINTED LICENSED FIRE SUPPRESSION SYSTEM INSTALLER

PATH OF EGRESS

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



INSTALLER:

GENERAL NOTES:

NOTES TO ARCHITECT AND/OR CONTRACTOR: STREIVOR, INC. (STREIVOR AIR SYSTEMS, STREIVOR STAINLESS) IS A SPECIALIST IN THE LAYOUT AND DESIGN OF KITCHEN VENTILATION SYSTEMS, AND IN NO WAY PURPORTS TO BE ARCHITECTS OR ENGINEERS.

THIS PLAN IS SUBMITTED FOR THE CONVENIENCE OF THE ARCHITECT AND/OR CONTRACTOR AND IS DONE FROM AVAILABLE ARCHITECTURAL INFORMATION. ALL MEASUREMENTS ARE SUBJECT TO PHYSICAL VERIFICATION AND ANY DEVIATIONS OR DISCREPANCIES SHALL BE DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN WRITING.

STREIVOR, INC. ACCEPTS NO RESPONSIBILITY FOR WORK DONE BY SAID ARCHITECT OR GENERAL CONTRACTOR OR THEIR REPRESENTATIVES OR SUBCONTRACTORS, AND WILL NOT STAND ANY EXPENSE FOR CHANGES MADE NECESSARY DUE TO LOCAL BUILDING CODES, ORDINANCES, STRUCTURAL CONDITIONS, OR BY ANY SUBSTITUTIONS OR CHANGES IN EQUIPMENT SHOWN ON THIS PLAN.

ANY ERRORS, AMBIGUITIES OR OMISSIONS IN THIS PLAN OR SPECIFICATIONS SHALL BE REPORTED TO STREIVOR, INC. FOR CORRECTIONS BEFORE ANY OF THE WORK IS STARTED. UNLESS EXPRESSLY STIPULATED, NO ADDITIONAL ALLOWANCE WILL BE MADE IN FAVOR OF THE OWNER OR CONTRACTOR BY VIRTUE OF ERROR, AMBIGUITY OR OMISSION WHICH MAY HAVE BEEN CORRECTED OR CLARIFIED IN ACCORDANCE WITH THE ESTIMATES AND DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN A TIMELY MANNER.

CUSTOMER APPROVAL

COOKING EQUIPMENT VERIFICATION

VERIFY THE FOLLOWING:

HIGH BACK SHELVES	YES ☐	NO ☐
RANGE COOKING SURFACE DEPTH GREATER THAN 28"	YES ☐	NO ☐
PULL STATION LOCATION(S)	YES ☐	NO ☐
UTILITY CABINET LOCATION(S)	YES ☐	NO ☐
AGENT DISTRIBUTION HOSE AND RESTRAINING CABLE KIT	YES ☐	NO ☐
CEILING HEIGHT	___'-___"	

APPROVED BY DATE

NOTE TO REVIEWER:
ANY CHANGES IN COOKING EQUIPMENT SUCH AS EQUIPMENT POSITION, TYPE AND/OR INCREASE IN ENERGY OUTPUT MAY EFFECT EXHAUST AIRFLOW. STREIVOR AIR SYSTEMS MUST BE NOTIFIED OF ANY CHANGES THAT OCCUR PRIOR TO FABRICATION. A RE-ENGINEERING OF THE EXHAUST SYSTEM MAY BE REQUIRED AND ADDITIONAL COSTS MAY ACCRUE FOR FIRE SUPPRESSION PRE-TEST IS NOT INCLUDED UNLESS SPECIFICALLY LISTED IN QUOTE.

PROJECT:

CDCR PELICAN BAY

5905 LAKE EARL DRIVE
CRESCENT CITY, CA 95531

THE MARSHALL ASSOCIATES

ITEM #:	84
SYSTEM #:	9
HOOD #:	83
DATE:	04/11/2023
DRAWN BY:	KCS
CHECKED BY:	SWB
CONSULTANT:	THE MARSHALL ASSOCIATES
SCALE: (UNLESS OTHERWISE NOTED)	1/2" = 1' - 0"

1" BAR DOES NOT MEASURE 1"
THIS DRAWING IS NOT ALLOTTED TO SCALE

	DESCRIPTION	DATE	INT.
1	PLAN CHECK COMMENTS	03/19/24	KCS
2	---	--/--/--	---
3	---	--/--/--	---
4	---	--/--/--	---
5	---	--/--/--	---

DRAWING:

F-10

SHEET 10 OF 11

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CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

The Marshall Associates, Inc.
Foodservice & Laundry Consultants/Designers
3000 Danville Blvd Suite F-344 Alamo, CA 94507
2129 4th Street Santa Rosa, CA 95404
415/677-1200 Fax 415/677-1210

STATE OF CALIFORNIA
DEPARTMENT OF CORRECTIONS AND REHABILITATION

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
11/04/24
23-5898
Approval of this plan does not authorize or approve any omission or deviation from applicable requirements. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

REV.	DATE:	DESCRIPTION

STREIVOR™ AIR SYSTEMS
"STRIVING FOR EXCELLENCE"
2150 KITTY HAWK ROAD, LIVERMORE, CA 94551
PHONE: (925) 960-9090 FAX:(925) 960-9055
WWW.STREIVOR.COM

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS
Project No.: 5882.00

HIBSER YAMAUCHI Architects, Inc.
4602 2nd Street, Suite #3
Davis, CA 95618
530.758.1270 office
530.758.4789 fax

LICENSED ARCHITECT
REX YAMAUCHI
C-26566
02-28-2025
RENEWAL DATE
STATE OF CALIFORNIA

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

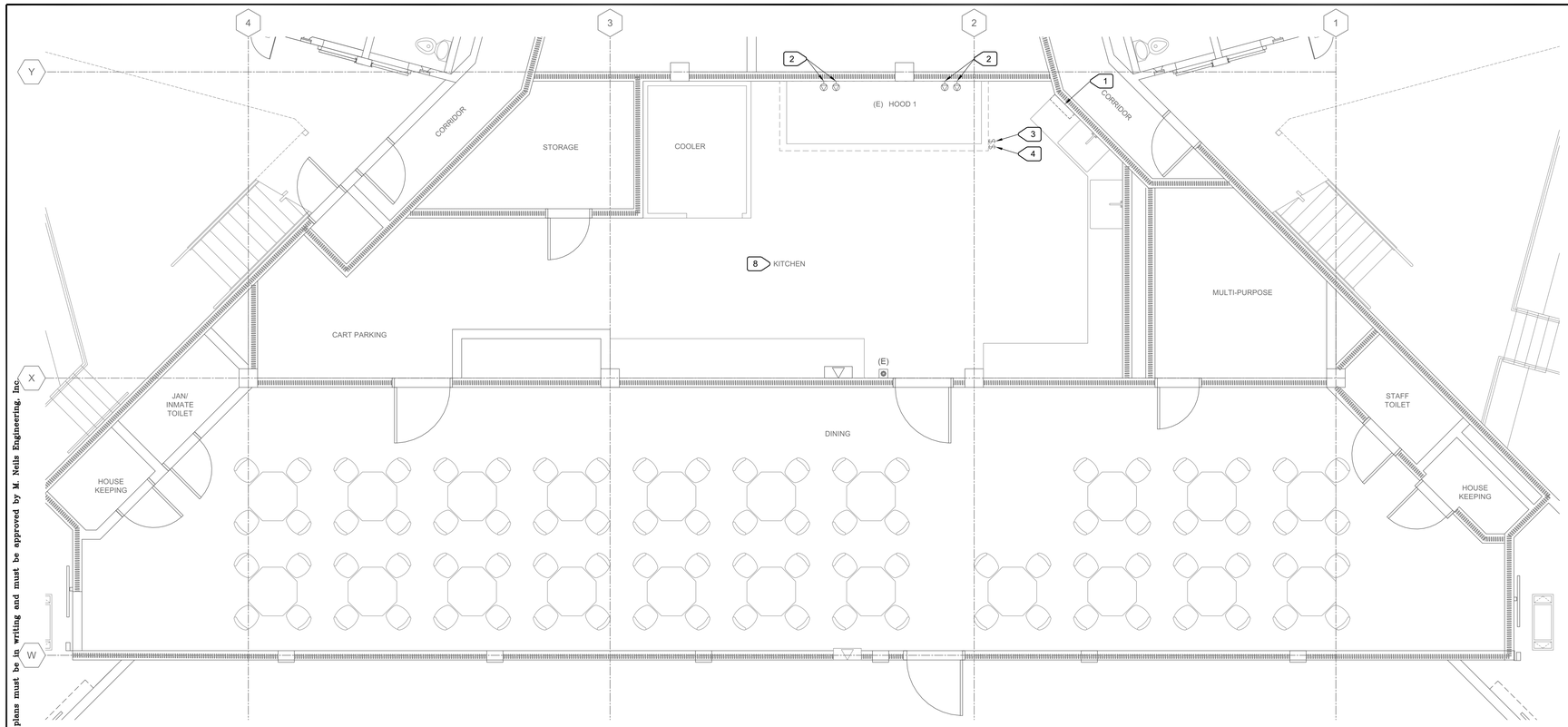
SHEET TITLE: BUILDING H&R B3 - ADMIN BUILDING FIRE SUPPRESSION NFR PLAN

CDCR 20-034 Work Nos.:

SHEET NUMBER

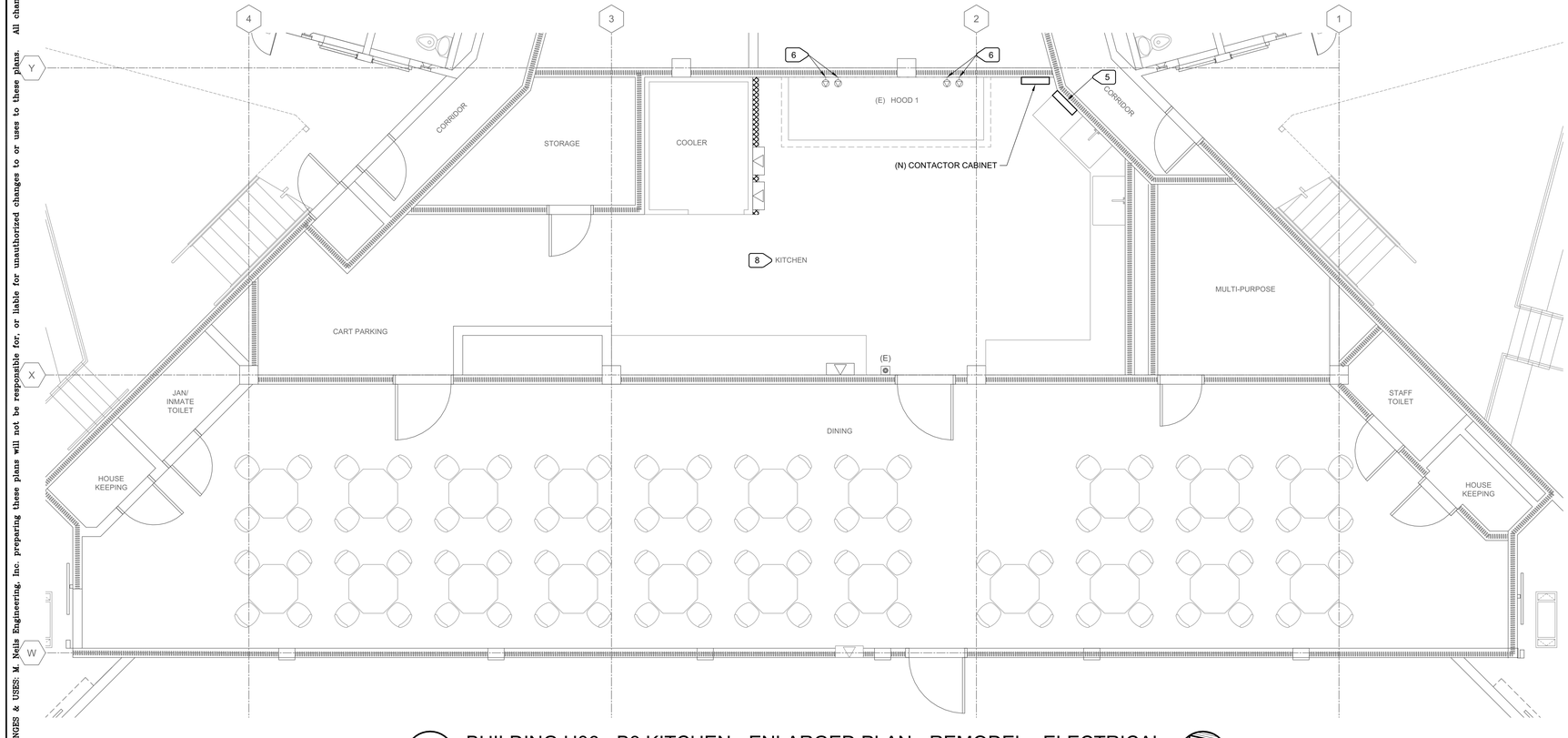
FS-J1.3

V3



1 E-J1.1 BUILDING H06 - B3 KITCHEN - ENLARGED PLAN - DEMOLITION - ELECTRICAL

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

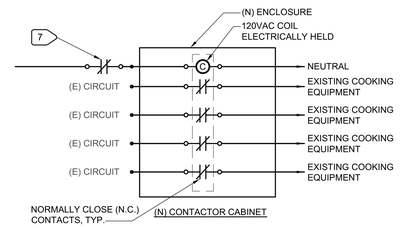


2 E-J1.1 BUILDING H06 - B3 KITCHEN - ENLARGED PLAN - REMODEL - ELECTRICAL

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

NUMBERED NOTES

1. EXISTING FIRE SUPPRESSION SYSTEM CONTROL PANEL TO BE REMOVED. DISCONNECT EXISTING 120V POWER CIRCUIT AND FIRE ALARM MONITORING CIRCUIT AND PROTECT FOR CONNECTION TO NEW PANEL.
2. EXISTING EQUIPMENT POWER RECEPTACLE TO REMAIN.
3. EXISTING HOOD LIGHT SWITCH TO REMAIN.
4. EXISTING HOOD FAN SWITCH TO REMAIN.
5. NEW FIRE SUPPRESSION SYSTEM CONTROL PANEL. RECONNECT TO EXISTING 120V POWER CIRCUIT AND FIRE ALARM MONITORING CIRCUIT. SEE DETAIL "1/E-0.1" ON SHEET E-0.1".
6. LOCATE AND INTERCEPT EXISTING EQUIPMENT POWER CIRCUIT AND RE-ROUTE THROUGH NEW CONTACTOR. SEE DETAIL"3/E-J1.1".
7. WHEN THE NORMALLY CLOSED (N.C.) AUXILIARY CONTACT IN FIRE SUPPRESSION SYSTEM CONTROL PANEL IS OPEN, THE ELECTRICALLY HELD CONTROL COIL IS DE-ENERGIZED AND THE N.C. CONTACTORS ARE OPENED, DE-ENERGIZING THE EQUIPMENT UNDER THE HOOD.
8. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND RATING OF FIRE RATED WALLS.



3 E-J1.1 CONTACTOR CABINET DIAGRAM

NO SCALE

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REV.	DATE:	DESCRIPTION

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS
Project No: 5892.00

HIBSER YAMAUCHI Architects, Inc.
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PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

SHEET TITLE: BUILDING H06 - B3 KITCHEN - ENLARGED PLANS - DEMOLITION AND REMODEL - ELECTRICAL

CDCR Bldg. No.: 20-034

SHEET NUMBER
E-J1.1

V3

CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

REGISTERED PROFESSIONAL ENGINEER
JESSE U. BASTIAN
No. E20229
Exp. 03-31-25
ELECTRICAL
STATE OF CALIFORNIA
10/15/2024

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Tel: (916) 923-4400
PROJECT #: 22238.21
PROJECT MGR: Stuart Lindsay

UNAUTHORIZED CHANGES & USES: M. Neils Engineering, Inc. preparing these plans will not be responsible for, or liable for unauthorized changes to or uses to these plans. All changes to these plans must be in writing and must be approved by M. Neils Engineering, Inc.

Oct 15, 2024 – 2:30pm, / kerlo

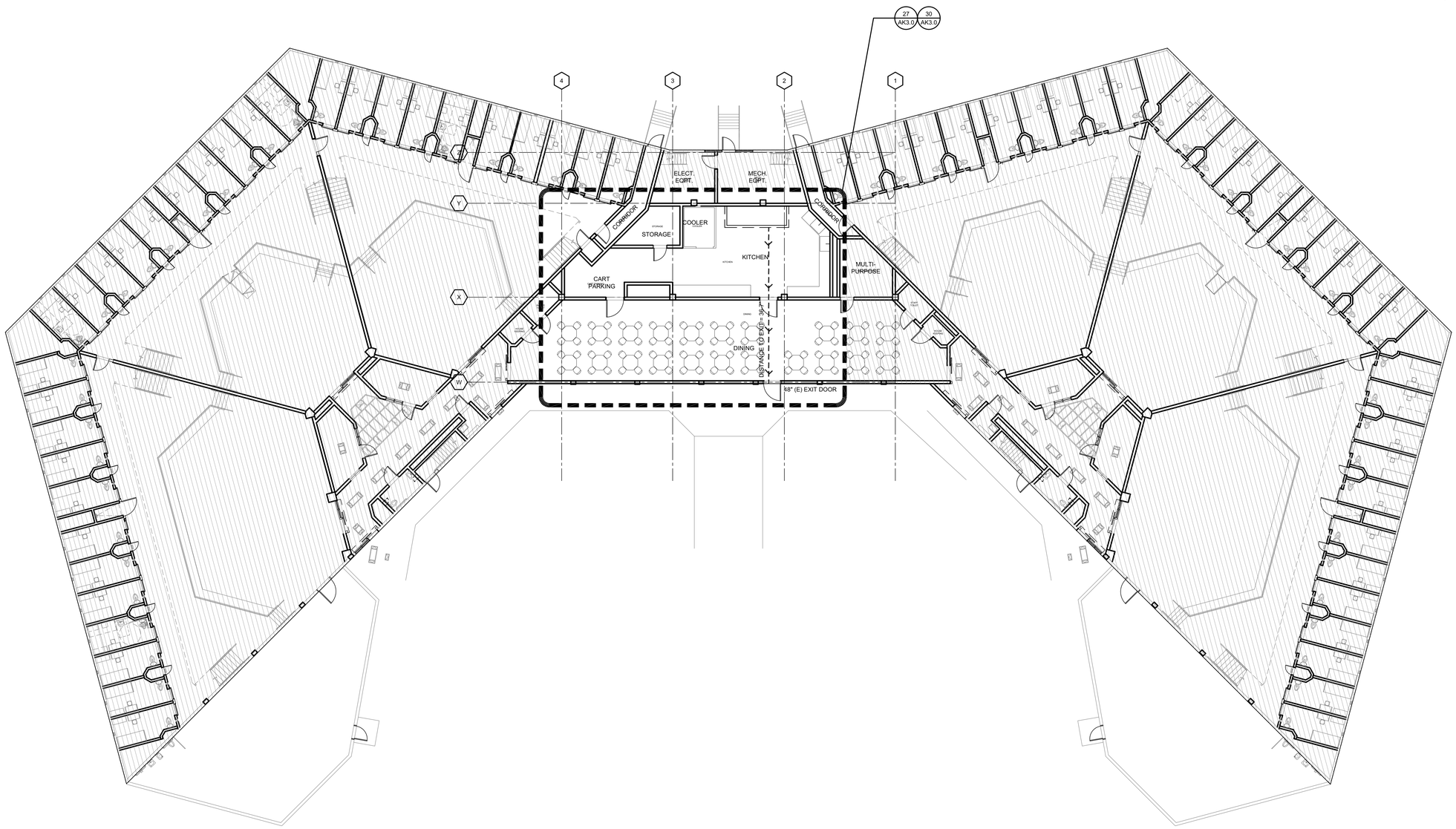
GENERAL NOTES

1. DESIGN, FURNISH, INSTALL AND TEST NEW FIRE SYSTEM.
2. FIELD VERIFY ALL EXISTING CONDITIONS AS NECESSARY FOR THE WORK. DRAWINGS WERE PRODUCED FROM FIELD NOTES.
3. NEW SUPPRESSION MANUAL PULL STATION TO BE WITHIN THE KITCHEN ROOM, BETWEEN 10FT TO 20FT FROM THE HOOD AND IN ROUTE THE EXIT DOOR.
4. NEW (K) CLASS FIRE EXTINGUISHER TO BE WITHIN 30FT FROM THE HOOD. IF NEEDED PROVIDE A SECOND EXTINGUISHER AS SHOWN IN DRAWINGS.
5. AFTER CONSTRUCTION IS COMPLETE, REPAIR ADJACENT SURFACES TO MATCH EXISTING IN PRE-CONSTRUCTION CONDITION. SEE DRAWINGS TO ENSURE PROPER FIRE RATING IS MAINTAINED.
6. NEW PULL STATIONS TO BE INSTALLED WITH OPERABLE PARTS NOT HIGHER THAN 48" AFF. PROVIDE ACCESSIBLE CLEARANCE IN FRONT OF THE PULL STATION.
7. NEW FIRE EXTINGUISHERS TO BE MOUNTED IN A CABINET WITH TOP SET AT 48" MAX. AFF. FOR RECESSED CABINET INSTALL SO IT DOES NOT PROTRUDE MORE THAN 4" OUT OF THE WALL, UON.
8. THE REMOVAL OF CONDUIT OR PIPING SHALL BE SEALED WITH LISTED OR EQUIVALENT LIQUID TIGHT SEALING DEVICES. (NFPA 96 SECTION: 10.2.7.2)
9. FOR STRUCTURAL ANCHORAGE FOR KITCHEN EQUIPMENT SEE SHEET S9.0 AND S9.1

LEGEND

AREA NOT IN SCOPE

PATH OF TRAVEL TO EXIT



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1334 1/8/2025
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N

30 BUILDING H07 - B2 KITCHEN - OVERALL PLAN
SCALE: 3/32" - 1'-0"

7/21/2023 11:44 AM

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FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS
Project No: 5892.00

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LICENSED ARCHITECT
KEN YAMAUCHI
C-26566
02-28-2025
RENEWAL DATE
STATE OF CALIFORNIA

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

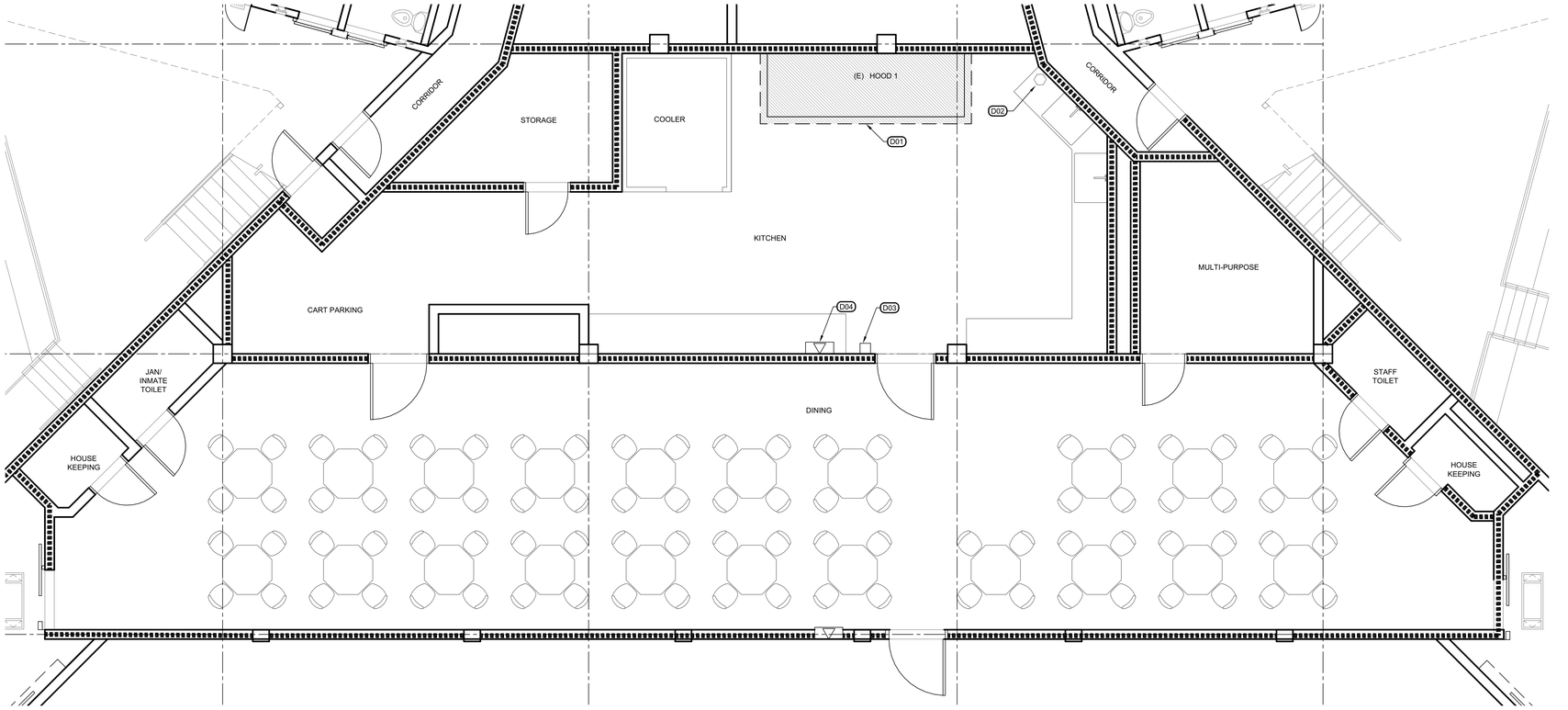
DATE: JULY 19, 2024

SHEET TITLE: BUILDING H07 B2 KITCHEN OVERALL PLAN

CDCR Project No.: 20-034

SHEET NUMBER
AK2.0

V3



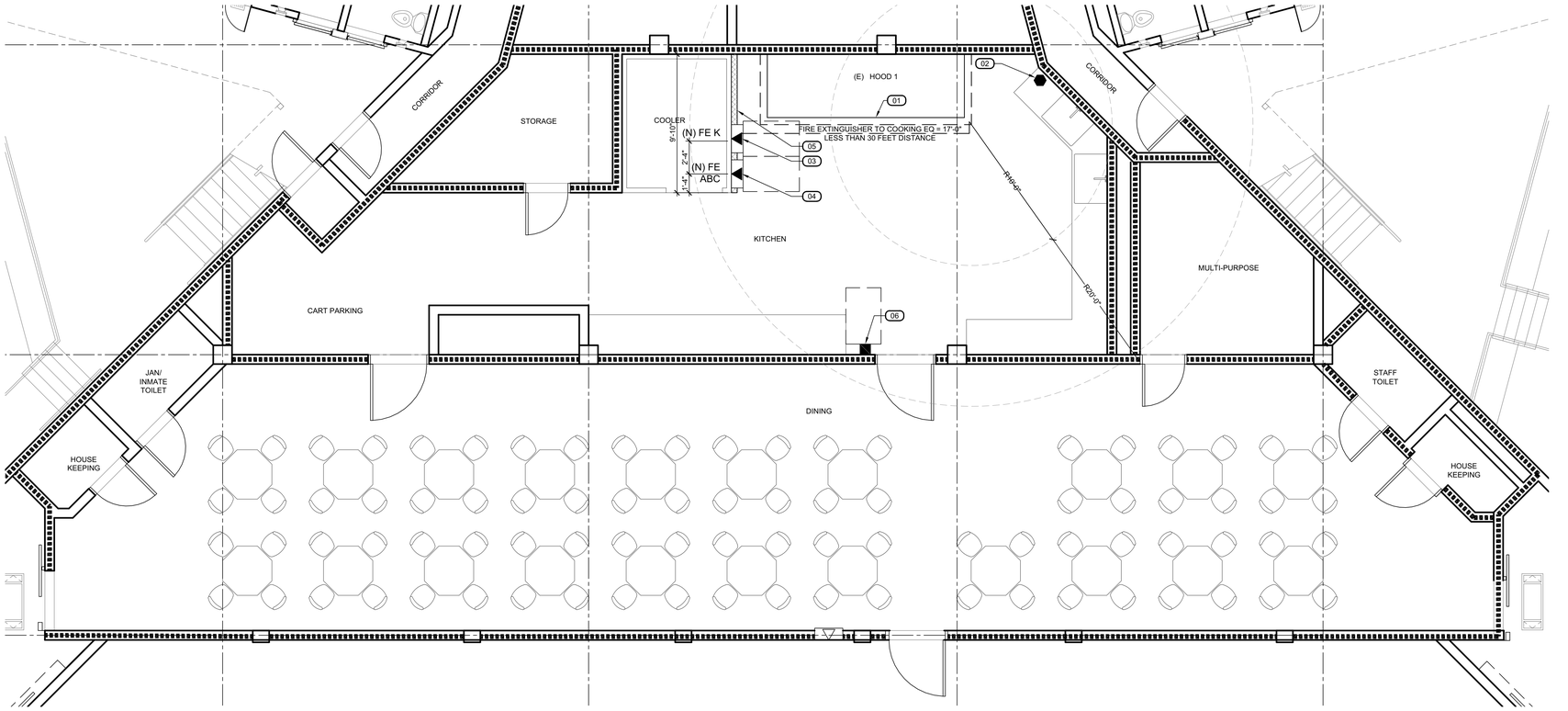
27 BUILDING H07 - B2 KITCHEN - ENLARGED PLAN - DEMOLITION

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

TRUE NORTH N

0 1' 2' 4' 8' 12'

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



30 BUILDING H07 - B2 KITCHEN - ENLARGED PLAN - REMODEL

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

TRUE NORTH N

0 1' 2' 4' 8' 12'

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

CDCR ACCESS COMPLIANCE

1334 1/8/2025
CASp-491

GENERAL NOTES

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9. FOR STRUCTURAL ANCHORAGE FOR KITCHEN EQUIPMENT SEE SHEET S9.0 AND S9.1

WALL LEGEND

(N) FURRING WALL. SEE DETAIL 12/A9.0

(E) CMU WALL

DEMOLITION LEGEND

EXISTING KITCHEN HOOD TO REMAIN. ANSUL SYSTEM TO BE REPLACED. SEE FS DRAWINGS FOR DETAILS AND EQUIPMENT LAYOUT.

FSS — (E) FIRE SUPPRESSION SYSTEM CONTROL BOX

FEC — (E) FIRE EXTINGUISHING CABINET WITH FIRE HOSE AND FIRE EXTINGUISHER INSIDE.

PS — (E) PULL STATION LOCATION AND SIGN INDICATING ANSUL SYSTEM NUMBER. SEE GENERAL NOTES AND FS DRAWINGS.

FE (ABC) — (E) ABC-CLASS PORTABLE FIRE EXTINGUISHER

FE (K) — (E) K-CLASS PORTABLE FIRE EXTINGUISHER

REMODEL LEGEND

FSS — (N) FIRE SUPPRESSION SYSTEM CONTROL BOX

DISTANCE (30 FEET MAXIMUM UNOBSTRUCTED FROM COOKING EQUIPMENT TO FIRE EXTINGUISHER.

FE (ABC) — (N) ABC-CLASS PORTABLE FIRE EXTINGUISHER

FE (K) — (N) K-CLASS PORTABLE FIRE EXTINGUISHER

DEMOLITION KEYNOTES

D01 (E) KITCHEN HOOD TO REMAIN. ANSUL SYSTEM TO BE REPLACED. SEE FS DRAWINGS .

D02 (E) FIRE SUPPRESSION SYSTEM CONTROL BOX TO BE REPLACED. SEE FS DRAWING.

D03 REMOVE (E) PULL STATION. PATCH, REPAIR AND PAINT ADJACENT SURROUNDINGS TO MATCH (E) CONDITIONS.

D04 REMOVE (E) FIRE EXTINGUISHER CABINET. PATCH, REPAIR AND PAINT ADJACENT SURROUNDINGS TO MATCH (E) CONDITIONS.

REMODEL KEYNOTES

01 ANSUL SYSTEM TO BE REPLACED. SEE FS DRAWINGS FOR DETAILS AND EQUIPMENT LOCATIONS.

02 (N) FIRE SUPPRESSION SYSTEM CONTROL BOX. SEE FS DRAWINGS.

03 (N) RECESSED FIRE EXTINGUISHER CABINET EQUIPPED W/K CLASS FIRE EXTINGUISHER. SEE DETAIL 1/A9.0 & FS DRAWINGS FOR SIZING

04 (N) RECESSED FIRE EXTINGUISHER CABINET EQUIPPED W/ ABC CLASS FIRE EXTINGUISHER, SIZE 2A. SEE DETAIL 1/A9.0

05 (N) FURRING WALL, SEE DETAIL 12/A9.0

06 (N) PULL STATION. SEE FS DRAWINGS. ENSURE MIN. 15" CLEARANCE BETWEEN CENTER OF PULL STATION AND COUNTER FOR ADA ACCESS

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STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project No: 5892.00
Project Phase: FINAL DRAWINGS

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530.758.4789 fax

LICENSED ARCHITECT
KEN YAMAUCHI
C-26566
02-28-2025
RENEWAL DATE
STATE OF CALIFORNIA

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

SHEET TITLE: BUILDING H07, B2 KITCHEN
ENLARGED PLANS - DEMOLITION AND REMODEL

CDCR JOB Nos.: 20-024

SHEET NUMBER
AK3.0

V3

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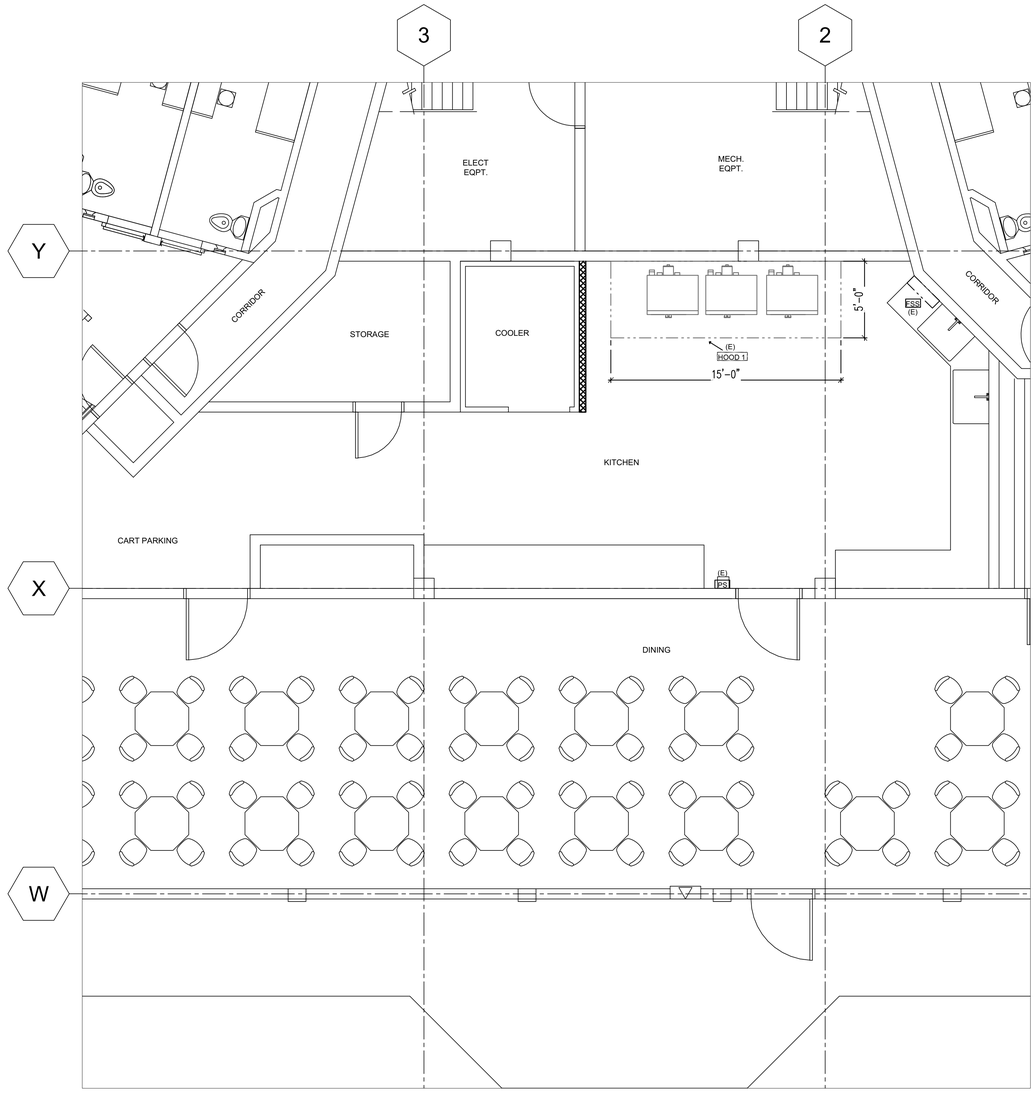

30 BLDG H07 B2 HOUSING UNIT - FIRE SUPPRESSION DEMO PLAN

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

GENERAL NOTES:

A. ALL EQUIPMENT TO HAVE NSF, ETL SANITATION OR UL SANITATION APPROVALS.

B. INSTALLATION TO MEET CALIFORNIA RETAIL FOOD CODE (CRFC) LATEST EDITION.

FIRE SUPPRESSION CONTRACTOR TO:

A. REMOVE EXISTING FIRE SUPPRESSION SYSTEM AND ALL COMPONENTS.

B. REFER TO ARCHITECTURAL DRAWING SHEET NOTES FOR NOTES AND GUIDELINES REGARDING EXISTING CONDITION GUIDELINES

SYMBOLS

(E) FSS EXISTING FIRE SUPPRESSION SYSTEM; TO BE REMOVED

(E) PS EXISTING FIRE PROTECTION PULL BOX; TO BE REMOVED

CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

The Marshall Associates, Inc.
Foodservice & Laundry Consultants/Designers
3000 Danville Blvd Suite F-344 Alamo, CA 94507
2129 4th Street Santa Rosa, CA 95404
415/677-1200 Fax 415/677-1210

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REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

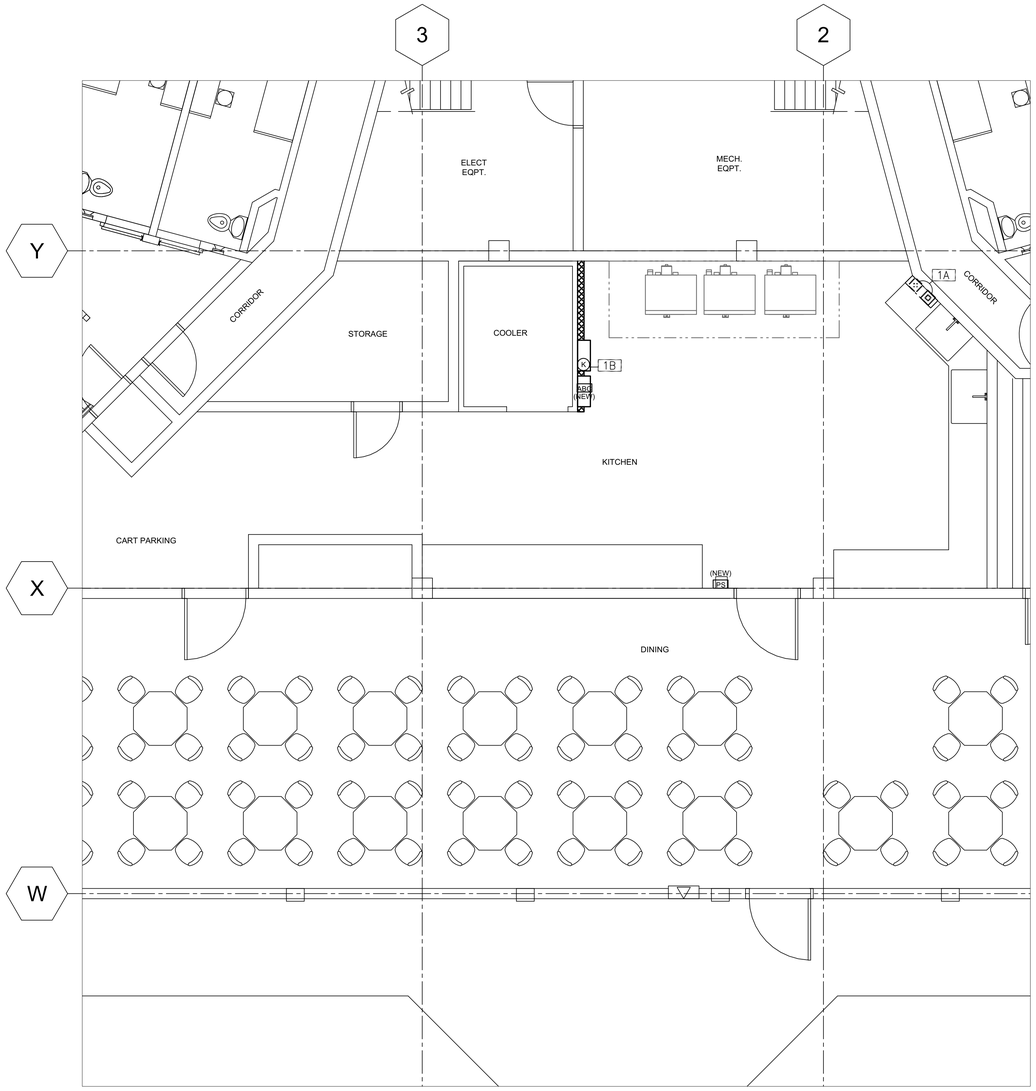
DATE: JULY 19, 2024

SHEET TITLE: BUILDING H07 - B2 KITCHEN
FIRE SUPPRESSION DEMO PLAN

CDCR 20-034
Job Nos.:

SHEET NUMBER
FS-K1.1

V3



30 BLDG H07 B2 HOUSING UNIT - FIRE SUPPRESSION NEW EQUIPMENT PLAN

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

EQUIPMENT SCHEDULE

ITEM	QTY	DESCRIPTION	MANUFACTURER	MODEL NUMBER	NOTES
1	1	EXHAUST HOOD (TYPE-I)	EXISTING; IN PLACE	NOT PART OF FSEC CONTRACT	NIC
1A	1	FIRE PROTECTION SYSTEM	STREVOR AIR SYSTEMS	PYRO-CHEM KITCHEN KNIGHT II	
1B	1	CLASS K FIRE EXTINGUISHER	BUCKEYE	WC-6L	
A	3	ELECTRIC CONVECTION OVEN	VULCAN (EXISTING)	ER-10 (EXISTING)	NIC
B	1	14 GA S/S WALL FLASHING	EXISTING	NOT PART OF FSEC CONTRACT	NIC

ABBREVIATIONS:

FSEC	FOODSERVICE EQUIPMENT CONTRACTOR
S/S	STAINLESS STEEL
NIC	NOT IN CONTRACT
CKT	CIRCUIT

ELECTRICAL ROUGH-IN

ITEM	QTY	DESCRIPTION	CONNECTED LOAD 120/1	120/208/1	120/208/3	208/1	208/3	480/3	HT	CONNECTION TYPE C&P	RECP	HW
1	1	EXHAUST HOOD (TYPE-I)										
1A	1	FIRE PROTECTION SYSTEM	20A CKT						FA			*
1B	1	CLASS K FIRE EXTINGUISHER										

ABBREVIATIONS:

C&P	CORD AND PLUG	CKT	CIRCUIT
RECP	RECEPTACLE	E	EXISTING
HW	HARDWIRE		
HT	HEIGHT		
FA	FROM ABOVE		

SCHEDULE / DRAWING NOTES:

CONNECTED LOAD = EACH CONNECTION SHOWN ON DRAWING

CONNECTION TYPES PROVIDED BY ELECTRICAL DIVISION

SHEET NOTES

FIRE SUPPRESSION CONTRACTOR TO PROVIDE:

A. WORK AS DESCRIBED IN CONTRACT DOCUMENTS AND SUPPLEMENTAL REQUIREMENTS PER FIRE SUPPRESSION EQUIPMENT SECTION.

B. ROUGH-IN AND FINAL CONNECTION TO ALL FIRE SUPPRESSION EQUIPMENT AS INDICATED ON DRAWINGS AND IN ELECTRICAL ROUGH-IN SCHEDULE.

C. ALL JUNCTION-BOXES, ELECTRICAL OUTLETS, COVER PLATES, SWITCHES NOT BUILT INTO FIXTURES OR EQUIPMENT.

D. SHUNT TRIP CIRCUIT BREAKERS FOR ALL FOODSERVICE EQUIPMENT BELOW EXHAUST HOODS.

E. INCLUDE DORMONT POSI-SET CASTER PLACEMENT SAFETY SYSTEM FOR ALL EXISTING MOBILE COOKING EQUIPMENT BELOW EXISTING HOODS AFTER NEW FIRE SUPPRESSION SYSTEM HAS BEEN INSTALLED. SEE S9.1 FOR DETAIL

F. ALL OTHER EXISTING EQUIPMENT TO BE ANCHORED PER REQUIREMENTS SHOWN ON S9.1

INTERCONNECTION BETWEEN:

A. FIRE PROTECTION SYSTEM AND BUILDING LIFE SAFETY.

SYMBOLS

PS — NEW FIRE PROTECTION PULL BOX – OCTAGONAL BOX 48" AFF WITH CONDUIT TO CEILING – PYRO CHEM KITCHEN KNIGHT II MODEL RPS-M

ABC — NEW ABC FIRE EXTINGUISHER SEE SHEET AA3.0 FOR MAKE/MODEL

K — NEW TYPE K FIRE EXTINGUISHER BUCKEYE; MODEL WC-6L

JUNCTION BOX ROUGH-IN

JUNCTION BOX CONNECTION PROVIDED IN EQUIPMENT

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The Marshall Associates, Inc.
Foodservice & Laundry Consultants/Designers
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REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

SHEET TITLE: BUILDING H02 - A2 KITCHEN
FIRE SUPPRESSION NEW EQUIPMENT PLAN

CDCR Job Nos.: 20-034

SHEET NUMBER

FS-K1.2

V3

LISTINGS & STANDARDS

THIS WET CHEMICAL EXTINGUISHING SYSTEM IS ENGINEERED TO PROVIDE FIRE PROTECTION FOR RESTAURANT HOODS, DUCTS AND COOKING APPLIANCES, IS **UL 300** LISTED AND IS TO BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS:

- NFPA 17A 2021 EDITION
- NFPA 10 2018 EDITION
- NFPA 96 2021 EDITION

SECTIONS & CODES

NFPA 10 2018 EDITION

(6.6.2) MAXIMUM TRAVEL DISTANCE SHALL NOT EXCEED 30 FT (9.1 M) FROM THE HAZARD TO THE EXTINGUISHER(S)

NFPA 17A 2021 EDITION

(5.2.1.10.1) EACH MANUAL ACTUATION DEVICE SHALL BE INSTALLED NO MORE THAN 48 IN. (1200 MM) AND NO LESS THAN 42 IN. (1067 MM) ABOVE THE FLOOR.

NFPA 96 2021 EDITION

(8.2.3.1) A HOOD EXHAUST FAN(S) SHALL CONTINUE TO OPERATE AFTER THE EXTINGUISHING SYSTEM HAS BEEN ACTIVATED UNLESS FAN SHUTDOWN IS REQUIRED BY A LISTED COMPONENT OF THE VENTILATION SYSTEM OR BY THE DESIGN OF THE EXTINGUISHING SYSTEM.

(8.2.3.2) THE HOOD EXHAUST FAN SHALL START UPON ACTIVATION OF THE EXTINGUISHING SYSTEM IF THE EXHAUST FAN AND ALL COOKING EQUIPMENT SERVED BY THE FAN HAVE BEEN SHUT DOWN, UNLESS FAN SHUTDOWN IS REQUIRED BY A LISTED COMPONENT OF THE VENTILATION SYSTEM OR BY THE LISTING OF THE EXTINGUISHING SYSTEM.

(8.3.2) WHEN THE FIRE-EXTINGUISHING SYSTEM ACTIVATES, MAKEUP AIR SUPPLIED INTERNALLY TO A HOOD SHALL BE SHUT OFF.

(10.4.1) UPON ACTIVATION OF ANY FIRE EXTINGUISHING SYSTEM FOR A COOKING OPERATION, ALL ~~SOURCES OF FUEL~~ AND ELECTRICAL POWER THAT PRODUCE HEAT TO ALL EQUIPMENT REQUIRING PROTECTION BY THAT SYSTEM SHALL AUTOMATICALLY SHUT OFF.

(10.4.3) ~~GAS APPLIANCE NOT REQUIRING PROTECTION BUT LOCATED UNDER VENTILATING EQUIPMENT WHERE PROTECTED APPLIANCES ARE LOCATED SHALL BE AUTOMATICALLY SHUT OFF UPON ACTIVATION OF THE EXTINGUISHING SYSTEM~~

(10.4.4) SHUTOFF DEVICE SHALL REQUIRE MANUAL RESETTING PRIOR TO FUEL / POWER BEING RESTORED

(10.5.1.1) AT LEAST ONE MANUAL ACTUATION DEVICE SHALL BE LOCATED IN A MEANS OF EGRESS OR AT A LOCATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.

(10.5.1.2) THE MANUAL ACTUATION DEVICE SHALL CLEARLY IDENTIFY THE HAZARD PROTECTED.

CMC 2022 EDITION

(513.5) ALL SYSTEMS SHALL HAVE BOTH AUTOMATIC AND MANUAL METHODS OF ACTUATION. AT LEAST ONE MANUAL ACTUATION DEVICE SHALL BE LOCATED IN A MEANS OF EGRESS OR AT A LOCATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.

INSTALLATION REQUIREMENTS

1. ALL PIPE SHALL BE SCHEDULE 40 BLACK IRON. CHROME PLATED/SLEEVED WHERE EXPOSED.
2. ALL CYLINDER SYSTEMS SHALL HAVE 3/8" SUPPLY LINES AND 3/8" BRANCH LINES.
3. ALL WIRE ROPE SHALL BE 1/16" STAINLESS STEEL AND RUN THROUGH 1/2" EMT CONDUIT.
4. U.L. LISTED CORNER PULLEYS REQUIRED WHENEVER THE STAINLESS STEEL CABLE DIRECTION CHANGES.
5. ALL EQUIPMENT WITH FIRE PROTECTION MUST BE SECURED TO FLOOR. (NOT BY STREIVOR)
6. SWIVEL ADAPTERS MAY BE ADDED TO NOZZLES FOR UP TO 30° ROTATION.

SYSTEM #10

PAGE NUMBERS REFERENCED FROM THE PYROCHEM FIRE SUPPRESSION SYSTEM TECHNICAL MANUAL

CABLE/LINE LIMITATIONS - CONTROL HEAD K

		LENGTH		PULLEYS	BRACKETS
FUSIBLE LINK (pg. 4-5)	MAXIMUM	150.00	FT	40	20
	ALLOTTED	20.00	FT	4	1*
PULL STATION(S) (pg. 4-9)	MAXIMUM	150.00	FT	40	N/A
	ALLOTTED	45.00	FT	2	N/A
GAS VALVE(S) (pg. 4-10)	MAXIMUM	100.00	FT	30	N/A
	ALLOTTED	--.--	FT	--	N/A

*ML STYLE FUSIBLE LINK INCLUDED WITH SYSTEM (NOT SUPPLIED BY STREIVOR). FUSIBLE LINK TEMPERATURE RATING TO BE VERIFIED AND DETERMINED IN FIELD.

CYLINDER #12

COVERAGE DESCRIPTION	NOZZLE	QTY.	FLOW POINTS	PAGE
DUCT	2D	1	2	3-1
PLENUM	1H	2	2	3-3

MODEL	FLOW POINTS			
PCL-300	4	ALLOTTED	10	MAXIMUM

TOTAL				FIRST TO LAST NOZZLE			
LENGTH**		VOLUME		LENGTH**		VOLUME	
36.00	FT	1350	ML	28.00	FT	1050	ML

CYLINDER #-

COVERAGE DESCRIPTION	NOZZLE	QTY.	FLOW POINTS	PAGE

MODEL	FLOW POINTS			
		ALLOTTED		MAXIMUM

TOTAL				FIRST TO LAST NOZZLE			
LENGTH**		VOLUME		LENGTH**		VOLUME	
FT		ML		FT		ML	

CYLINDER/PIPING LIMITATIONS

CYLINDER	FLOW POINTS	TOTAL				FIRST TO LAST NOZZLE			
		LENGTH*		VOLUME		LENGTH*		VOLUME	
PCL-460	15	69.33	FT	2600	ML	53.33	FT	2000	ML
PCL-460	14	90.67	FT	3400	ML	80.00	FT	3000	ML
PCL-300	10	50.93	FT	1910	ML	30.00	FT	1125	ML
PCL-160	5	40.00	FT	1500	ML	16.00	FT	600	ML

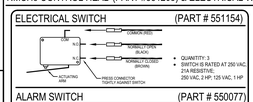
** CALCULATIONS BASED ON 3/8" PIPE (37.5 ML/FT) (SEE pg. 3-18)

LEGEND

- PATH OF EGRESS
- DETECTION LINE ROUTE
- K-CLASS FIRE EXTINGUISHER (NOT SUPPLIED BY STREIVOR)
- GAS VALVE
- PULL STATION
- RESET RELAY
- CONTROL HEAD
- DETECTOR BRACKET (FRONT VIEW)
- DETECTOR BRACKET (PLAN VIEW)
- NOZZLE COVERAGE
- PAC-10 PNEUMATIC TUBING
- FIELD PIPING
- FIELD WIRING NOT BY STRIEVOR
- DUCT NOZZLE MAX PERIMETER
- PLENUM NOZZLE MAX PLENUM LENGTH
- APPLIANCE NOZZLE AND HEIGHT
- DOWNWARD FACING NOZZLE
- ANGLED NOZZLE AND TARGET LOCATION

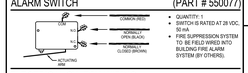
NMCH3 CONTROL HEAD (PART #551203) & ELECTRICAL WIRING

ELECTRICAL SWITCH (PART # 551154)

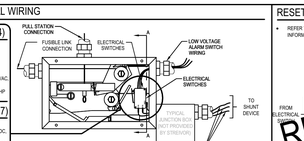


- QUANTITY: 3
- SWITCH IS RATED AT 250 VAC, 21A RESISTIVE; 250 VAC, 2 HP; 125 VAC, 1 HP

ALARM SWITCH (PART # 550077)



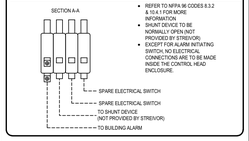
- QUANTITY: 1
- SWITCH IS RATED AT 28 VDC, 50 mA
- FIRE SUPPRESSION SYSTEM TO BE FIELD WIRED INTO BUILDING FIRE ALARM SYSTEM (BY OTHERS).



ELECTRICAL CONNECTIONS TO BE MADE OUTSIDE OF CONTROL HEAD FIELD WIRING BY OTHERS

- EXCEPT FOR ALARM INITIATING SWITCH, NO ELECTRICAL CONNECTIONS ARE TO BE MADE INSIDE THE CONTROL HEAD ENCLOSURE.

ELECTRICAL SWITCH WIRING



- REFER TO NFPA 96 CODES 8.3.2 & 10.4.1 FOR MORE INFORMATION
- SHUNT DEVICE TO BE NORMALLY OPEN (NO) PROVIDED BY STREIVOR.
- EXCEPT FOR ALARM INITIATING SWITCH, NO ELECTRICAL CONNECTIONS ARE TO BE MADE INSIDE THE CONTROL HEAD ENCLOSURE.

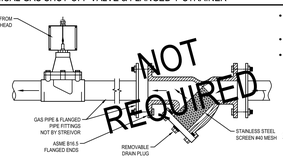
RESET RELAY

- REFER TO MANUAL RESET RELAY INSTRUCTIONS FOR MORE INFORMATION

NOT REQUIRED

MECHANICAL GAS SHUT-OFF VALVE & FLANGED Y-STRAINER

(SEE MEP DRAWINGS FOR LOCATION)

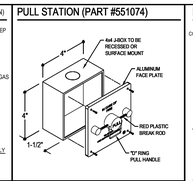


NOT REQUIRED

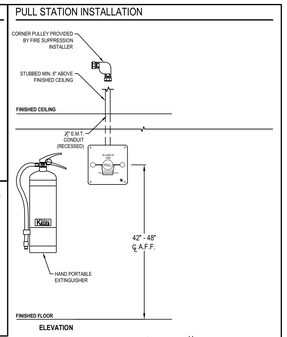
- GAS SHUT-OFF VALVE(S) TO BE SIZED AND LOCATED PER MEP DRAWINGS **(MAXIMUM VALVE SIZE: 3" NPT)**
- VALVE(S) AND STRAINERS TO BE INSTALLED BY DIVISION 22 (PLUMBING)
- Y-STRAINER REQUIRED FOR THE PROTECTION OF THE GAS VALVE. INSTALL A Y-STRAINER ON THE INLET SIDE OF THE GAS VALVE (AS CLOSE AS POSSIBLE).

Y-STRAINER NOT PROVIDED BY STREIVOR UNLESS SPECIFICALLY INCLUDED IN PURCHASE ORDER.

PULL STATION (PART #551074)

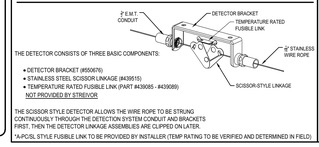


PULL STATION INSTALLATION



DETECTORS

(Series #435546 | Terminal #435547)



THE DETECTOR CONSISTS OF THREE BASIC COMPONENTS:

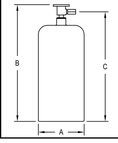
- DETECTOR BRACKET (#550676)
- STAINLESS STEEL SCISSOR LINKAGE (#439515)
- TEMPERATURE RATED FUSIBLE LINK (PART #435085 - #439089)

NOT PROVIDED BY STREIVOR

THE SCISSOR STYLE DETECTOR ALLOWS THE WIRE ROPE TO BE STRUNG CONTINUOUSLY THROUGH THE DETECTION SYSTEM CONDUIT AND BRACKETS FIRST. THEN THE DETECTOR LINKAGE ASSEMBLIES ARE CLIPPED ON LATER.

*A PC/SL STYLE FUSIBLE LINK TO BE PROVIDED BY INSTALLER (TEMP RATING TO BE VERIFIED AND DETERMINED IN FIELD)

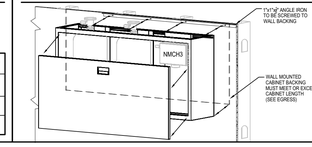
CYLINDER DETAILS



*CYLINDERS COME PRE-FILLED WITH EXTINGUISHING AGENT AND ARE CHARGED WITH DRY NITROGEN TO A PRESSURE OF 225 PSIG @ 70° F (15.5 BAR @ 21° C).

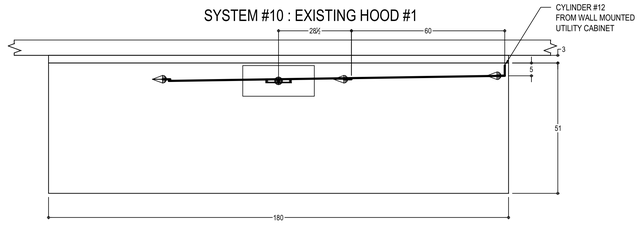
MODEL NO.	A	B	C	WEIGHT
PLC-160 (PART #550163)	8.00 IN	17.75 IN	15.44 IN	34 LBS.
PLC-300 (PART #551194)	8.00 IN	25.06 IN	22.75 IN	53 LBS.
PLC-460 (PART #551193)	10.00 IN	25.06 IN	22.75 IN	83 LBS.

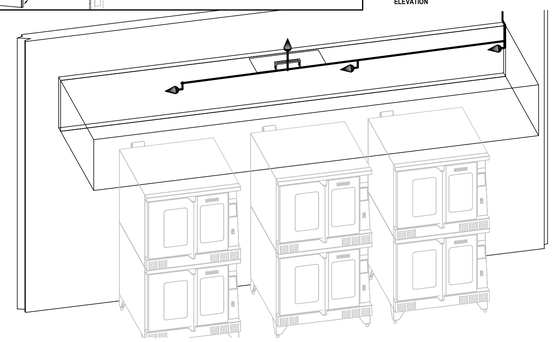
FIRE SUPPRESSION SYSTEM CABINET & REMOTE MOUNTED INSTALLATION

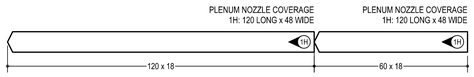


- 36" MINIMUM CLEARANCE REQUIRED IN FRONT OF THE REMOVABLE CABINET DOOR.
- SUPPORT BACKING REQUIRED IF CABINET MOUNTS TO WALL
- CABINET AND FIRE SUPPRESSION SYSTEM COMPONENTS APPROXIMATELY 100 LBS/FT. SEE PATH OF EGRESS DRAWING FOR CABINET DIMENSION(S).

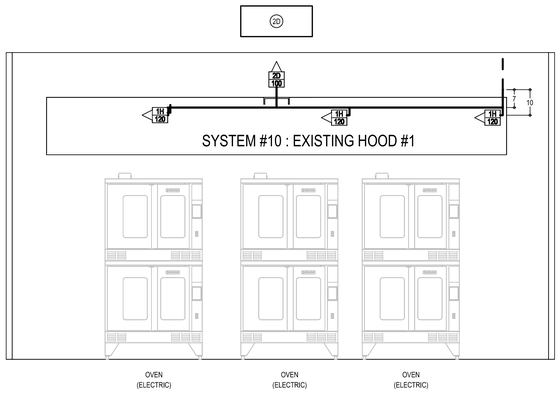
SYSTEM #10 : EXISTING HOOD #1







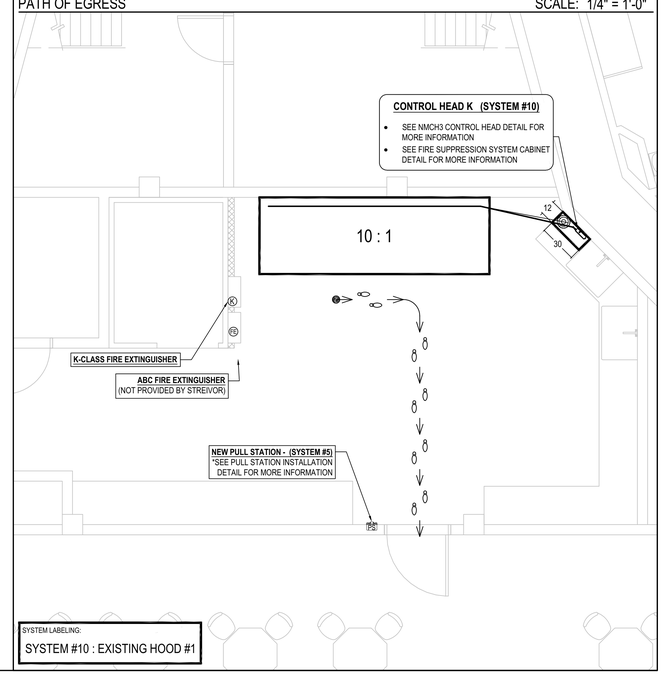
DUCT NOZZLE COVERAGE 2D: 100" PERIMETER



ALL FIRE SUPPRESSION SYSTEM PIPING TO BE FIELD INSTALLED BY A STREIVOR APPOINTED LICENSED FIRE SUPPRESSION SYSTEM INSTALLER

PATH OF EGRESS

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



SYSTEM LABELING:

SYSTEM #10 : EXISTING HOOD #1

INSTALLER:

GENERAL NOTES:

NOTES TO ARCHITECT AND/OR CONTRACTOR: STREIVOR, INC. (STREIVOR AIR SYSTEMS, STREIVOR STAINLESS) IS A SPECIALIST IN THE LAYOUT AND DESIGN OF KITCHEN VENTILATION SYSTEMS, AND IN NO WAY PURPORTS TO BE ARCHITECTS OR ENGINEERS.

THIS PLAN IS SUBMITTED FOR THE CONVENIENCE OF THE ARCHITECT AND/OR CONTRACTOR AND IS DONE FROM AVAILABLE ARCHITECTURAL INFORMATION. ALL MEASUREMENTS ARE SUBJECT TO PHYSICAL VERIFICATION AND ANY DEVIATIONS OR DISCREPANCIES SHALL BE DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN WRITING.

STREIVOR, INC. ACCEPTS NO RESPONSIBILITY FOR WORK DONE BY SAID ARCHITECT OR GENERAL CONTRACTOR OR THEIR REPRESENTATIVES OR SUBCONTRACTORS, AND WILL NOT STAND ANY EXPENSE FOR CHANGES MADE NECESSARY DUE TO LOCAL BUILDING CODES, ORDINANCES, STRUCTURAL CONDITIONS, OR BY ANY SUBSTITUTIONS OR CHANGES IN EQUIPMENT SHOWN ON THIS PLAN.

ANY ERRORS, AMBIGUITIES OR OMISSIONS IN THIS PLAN OR SPECIFICATIONS SHALL BE REPORTED TO STREIVOR, INC. FOR CORRECTIONS BEFORE ANY OF THE WORK IS STARTED. UNLESS EXPRESSLY STIPULATED, NO ADDITIONAL ALLOWANCE WILL BE MADE IN FAVOR OF THE OWNER OR CONTRACTOR BY VIRTUE OF ERROR, AMBIGUITY OR OMISSION WHICH MAY HAVE BEEN CONTAINED IN THE ARCHITECT'S OR ENGINEER'S ESTIMATES AND DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN A TIMELY MANNER.

CUSTOMER APPROVAL

COOKING EQUIPMENT VERIFICATION

VERIFY THE FOLLOWING:

HIGH BACK SHELVES	YES ☐	NO ☐
RANGE COOKING SURFACE DEPTH GREATER THAN 28"	YES ☐	NO ☐
PULL STATION LOCATION(S)	YES ☐	NO ☐
UTILITY CABINET LOCATION(S)	YES ☐	NO ☐
AGENT DISTRIBUTION HOSE AND RESTRAINING CABLE KIT	YES ☐	NO ☐

CEILING HEIGHT ___'-___"

APPROVED BY DATE

NOTE TO REVIEWER:

ANY CHANGES IN COOKING EQUIPMENT SUCH AS EQUIPMENT POSITION, TYPE AND/OR INCREASE IN ENERGY OUTPUT MAY EFFECT EXHAUST AIRFLOW. STREIVOR AIR SYSTEMS MUST BE NOTIFIED OF ANY CHANGES THAT OCCUR PRIOR TO FABRICATION. A RE-ENGINEERING OF THE EXHAUST SYSTEM MAY BE REQUIRED. ADDITIONAL COSTS DUE TO FIRE SUPPRESSION PRE-TEST IS NOT INCLUDED UNLESS SPECIFICALLY LISTED IN QUOTE.

PROJECT:

CDCR PELICAN BAY

5905 LAKE EARL DRIVE
CRESCENT CITY, CA 95531

THE MARSHALL ASSOCIATES

ITEM #:	94
SYSTEM #:	10
HOOD #:	93
DATE:	04/11/2023
DRAWN BY:	KCS
CHECKED BY:	SWB
CONSULTANT:	THE MARSHALL ASSOCIATES
SCALE: (UNLESS OTHERWISE NOTED)	1/2" = 1' - 0"

1" BAR DOES NOT MEASURE 1" THIS DRAWING IS NOT ALLOTTED TO SCALE

	DESCRIPTION	DATE	INT
1	PLAN CHECK COMMENTS	03/19/24	KCS
2	---	--/--/--	---
3	---	--/--/--	---
4	---	--/--/--	---
5	---	--/--/--	---

DRAWING:

F-11

SHEET 11 OF 11

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CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

The Marshall Associates, Inc.
Foodservice & Laundry Consultants/Designers
3000 Danville Blvd Suite F-344 Alamo, CA 94507
2129 4th Street Santa Rosa, CA 95404
415/677-1200 Fax 415/677-1210

STATE OF CALIFORNIA
DEPARTMENT OF CORRECTIONS AND REHABILITATION

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
11/04/24
23-5898
Approval of this plan does not authorize or approve any omission or deviation from applicable requirements. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

REV.	DATE:	DESCRIPTION

STREIVOR™ AIR SYSTEMS
"STRIVING FOR EXCELLENCE"
2150 KITTY HAWK ROAD, LIVERMORE, CA 94551
PHONE: (925) 960-9090 FAX:(925) 960-9055
WWW.STREIVOR.COM

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FINAL DRAWINGS
Project No.: 5882.00

HIBER YAMAUCHI Architects, Inc.
4602 2nd Street, Suite #3
Davis, CA 95616
530.758.1270 office
530.758.4789 fax

LICENSED ARCHITECT
KEN YAMAUCHI
C-26566
02-28-2025
RENEWAL DATE
STATE OF CALIFORNIA

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

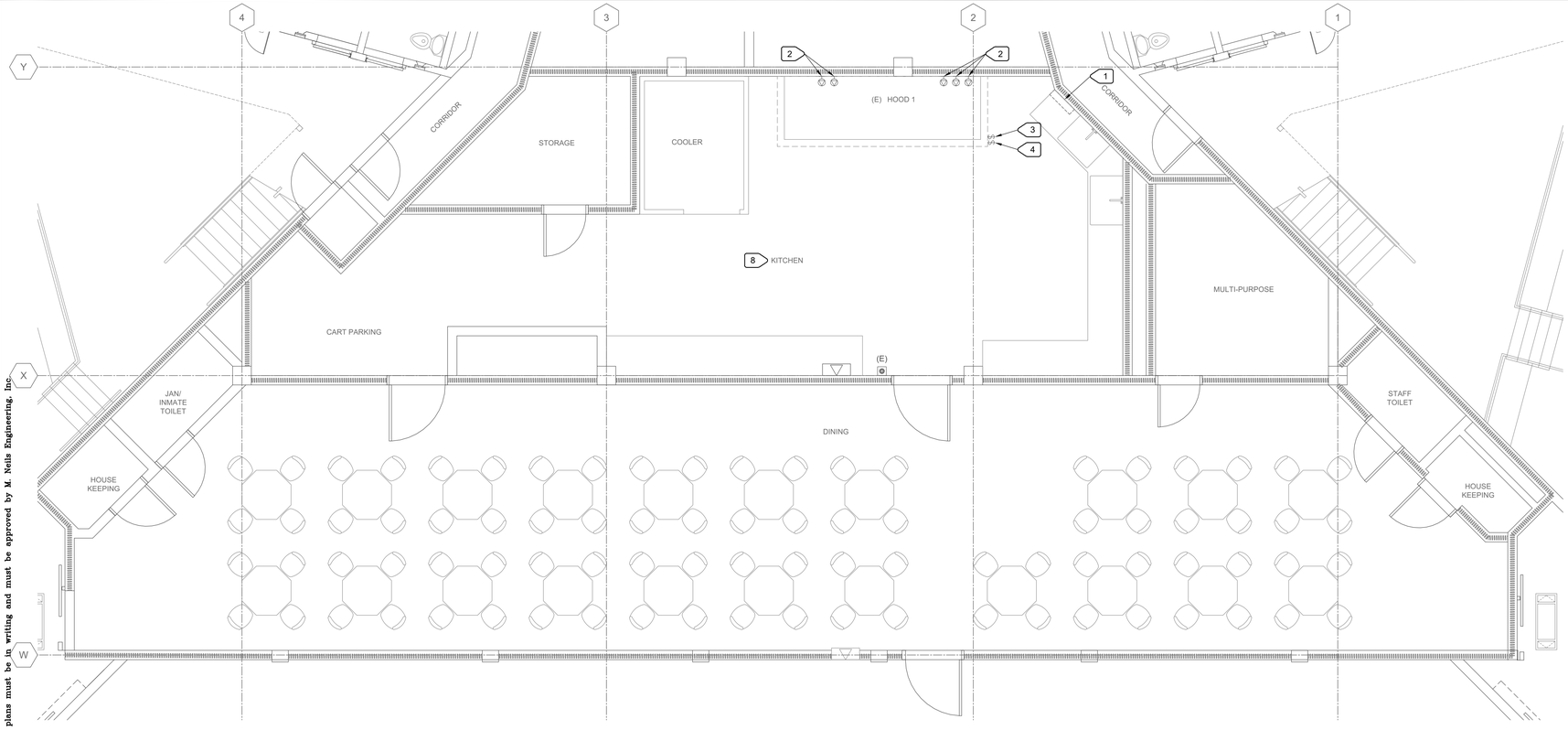
SHEET TITLE: BUILDING H07 B2 - ADMIN BUILDING FIRE SUPPRESSION NFR PLAN

CDCR Project Nos.: 20-0334

SHEET NUMBER

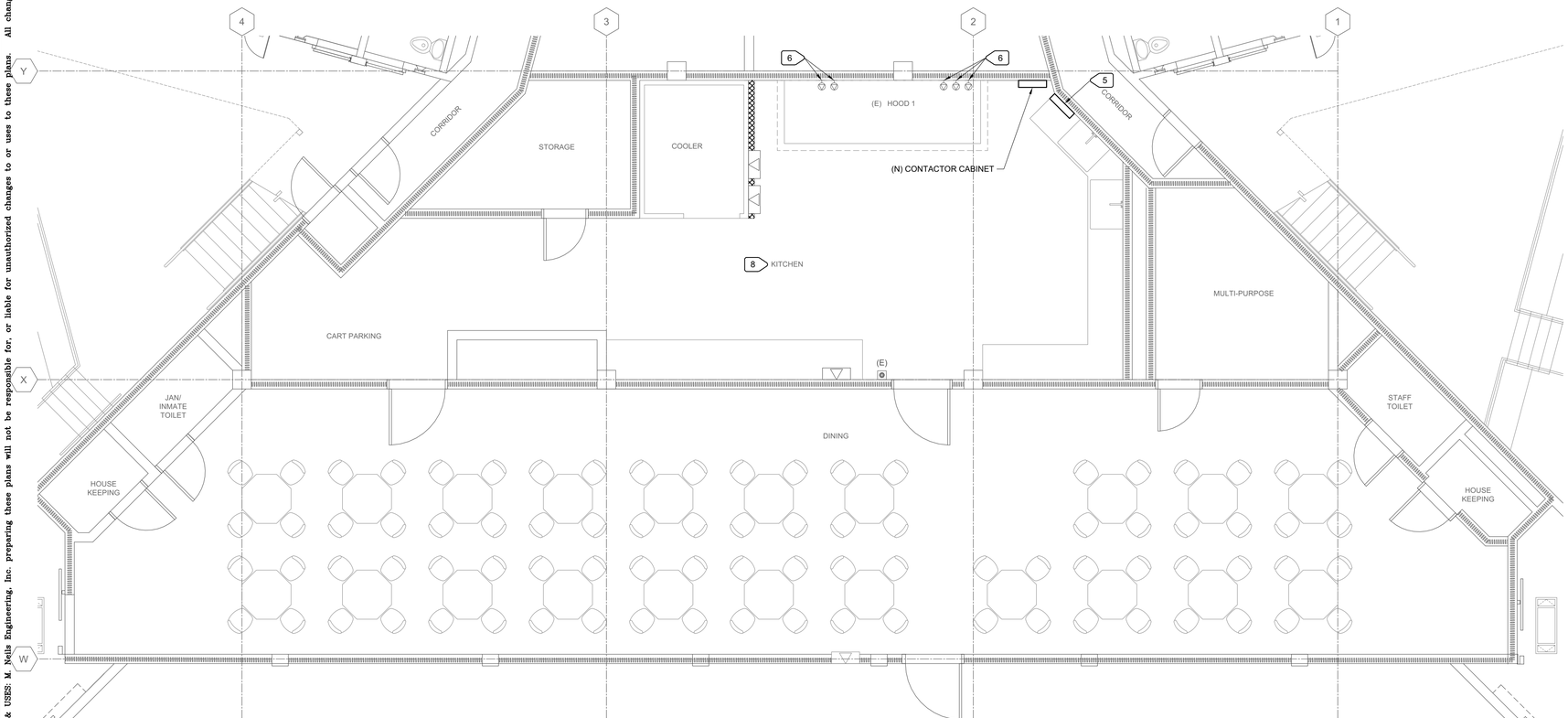
FS-K1.3

V3



1 E-K1.1 BUILDING H07 - B2 KITCHEN - ENLARGED PLAN - DEMOLITION - ELECTRICAL

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

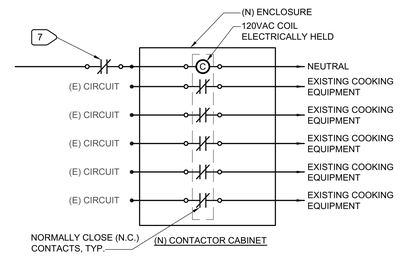


2 E-K1.1 BUILDING H07 - B2 KITCHEN - ENLARGED PLAN - REMODEL - ELECTRICAL

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

NUMBERED NOTES

1. EXISTING FIRE SUPPRESSION SYSTEM CONTROL PANEL TO BE REMOVED. DISCONNECT EXISTING 120V POWER CIRCUIT AND FIRE ALARM MONITORING CIRCUIT AND PROTECT FOR CONNECTION TO NEW PANEL.
2. EXISTING EQUIPMENT POWER RECEPTACLE TO REMAIN.
3. EXISTING HOOD LIGHT SWITCH TO REMAIN.
4. EXISTING HOOD FAN SWITCH TO REMAIN.
5. NEW FIRE SUPPRESSION SYSTEM CONTROL PANEL. RECONNECT TO EXISTING 120V POWER CIRCUIT AND FIRE ALARM MONITORING CIRCUIT. SEE DETAIL "1/E-0.1" ON SHEET E-0.1".
6. LOCATE AND INTERCEPT EXISTING EQUIPMENT POWER CIRCUIT AND RE-ROUTE THROUGH NEW CONTACTOR. SEE DETAIL"3/E-K1.1".
7. WHEN THE NORMALLY CLOSED (N.C.) AUXILIARY CONTACT IN FIRE SUPPRESSION SYSTEM CONTROL PANEL IS OPEN, THE ELECTRICALLY HELD CONTROL COIL IS DE-ENERGIZED AND THE N.C. CONTACTORS ARE OPENED, DE-ENERGIZING THE EQUIPMENT UNDER THE HOOD.
8. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND RATING OF FIRE RATED WALLS.



3 E-K1.1 CONTACTOR CABINET DIAGRAM

NO SCALE

CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

REGISTERED PROFESSIONAL ENGINEER
JESSE U. BASTIAN
No. E20329
Exp. 03-31-25
ELECTRICAL
STATE OF CALIFORNIA
10/15/2024

M. NEILS
ENGINEERING, INC.
Electrical Engineers | Lighting Designers
100 Howe Ave., Suite 235N
Sacramento, CA 95825-8217
www.mneilsengineering.com
Tel: (916) 923-4400
PROJECT #: 22238.21
PROJECT MGR: Stuart Lindsay

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
11/04/24
23-8888
Approval of this plan does not authorize or approve any omission or deviation from applicable requirements. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

REV.	DATE:	DESCRIPTION

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project No: 5892.00
Project Phase: FINAL DRAWINGS

HIBSER YAMAUCHI Architects, Inc.
4602 2nd Street, Suite #3
Davis, CA 95616
530.758.1270 office
530.758.4769 fax

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024

SHEET TITLE: BUILDING H07 - B2 KITCHEN - ENLARGED PLANS - DEMOLITION AND REMODEL - ELECTRICAL

CDCR JOB No.: 20-034

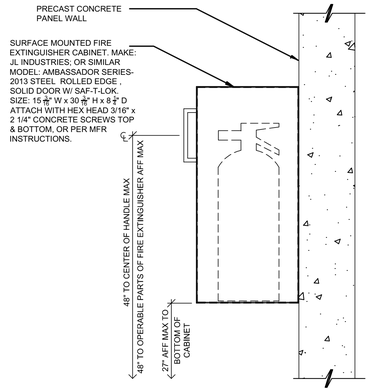
SHEET NUMBER
E-K1.1
V3

UNAUTHORIZED CHANGES & USES: M. Neils Engineering, Inc. preparing these plans will not be responsible for, or liable for unauthorized changes to or uses to these plans. All changes to these plans must be in writing and must be approved by M. Neils Engineering, Inc.

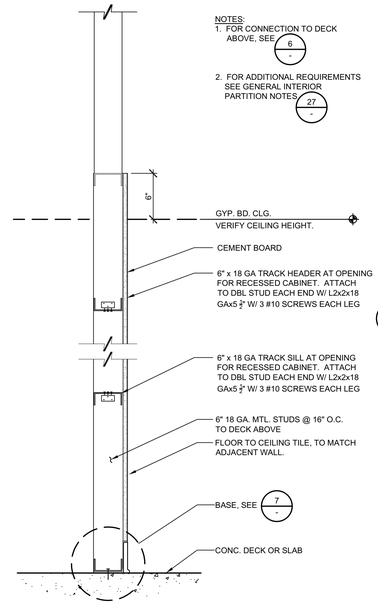
Oct 15, 2024 – 2:30pm, / kerlo

- (A) SEE FLOOR PLAN FOR EXTENT/LOCATION OF PARTITION TYPES.
- (B) REFER TO TITLE SHEET FOR APPLICABLE CODES AND REFERENCED STANDARDS.
- (C) WHERE INTERIOR PARTITION ASSEMBLIES PROVIDE AN UNDERWRITERS LABORATORIES (U.L.) DESIGN NUMBER, USE THE MATERIALS, METHODS AND SYSTEMS DESCRIBED IN THE U.L. APPROVED DESIGN WITHOUT SUBSTITUTION. DO NOT USE GENERIC MATERIALS OR ASSUME GENERIC MATERIALS TO BE EQUIVALENT. WHERE U.L. APPROVED DESIGNS LIST SEVERAL ALTERNATIVE PRODUCTS, ANY OF THE PRODUCTS LISTED MAY BE USED.
- (D) PROVIDE CONTINUOUS SMOKE/FIRE RATED PARTITIONS/BARRIERS/WALLS FROM FLOOR SLAB TO UNDERSIDE OF STRUCTURAL FRAMING OR SLAB ABOVE, U.O.N.
- (E) WHERE INTERIOR PARTITIONS/BARRIERS/WALLS TERMINATE AT EXTERIOR WALLS, MAINTAIN SMOKE/FIRE RATING TO THE EXTERNAL FACE OF THE EXTERIOR WALL.
- (F) FURRED COLUMN CLOSURES SHALL NOT BE CONSIDERED PART OF THE FIRE RATED ASSEMBLY OF THE COLUMN, U.O.N.
- (G) INSTALL FRAMING COMPONENTS AND GYPSUM BOARD SQUARELY CUT TO FIT TIGHTLY AGAINST ABUTTING ELEMENT. FIT GYPSUM BOARD TIGHTLY AROUND STRUCTURAL SHAPES, DUCTS, PIPES, CONDUITS AND FITTINGS. SEAL ALL GAPS WITH ACOUSTICAL SEALANT AT NON-RATED PARTITIONS, AND FIRE STOP SYSTEMS AT RATED PARTITIONS.
- (H) SEPARATE OUTLET BOXES LOCATED ON OPPOSITE SIDES OF INTERIOR PARTITIONS BY A MINIMUM OF 24 INCHES.
- (I) PROVIDE MEMBRANE FIRE STOPPING PROTECTION AT OUTLET BOXES IN SMOKE/FIRE RATED PARTITIONS/BARRIERS/WALLS WHEN 1) AN OUTLET BOX EXCEEDS 16 SQ. INCHES IN AREA, OR 2) THE TOTAL AREA OF THE OUTLET BOXES EXCEEDS 100 SQ. INCHES WITHIN 100 SQ. FEET OF INTERIOR PARTITION AREA.
- (J) COORDINATE LOCATIONS OF BUILDING SYSTEMS, INFRASTRUCTURE AND OPENINGS TO MINIMIZE IMPACT ON INTERIOR PARTITION FRAMING. PROVIDE SUPPLEMENTAL FRAMING/BRIDGING/MODIFICATIONS REQUIRED FOR COORDINATION WITH SYSTEMS, INFRASTRUCTURE AND OPENINGS, AS APPROVED BY THE ARCHITECT.
- (K) COORDINATE LOCATIONS AND EXTENTS OF CONCEALED BACKING TO SUPPORT BUILDING SYSTEMS, INFRASTRUCTURE, EQUIPMENT AND FURNISHINGS. PROVIDE SUPPLEMENTAL FRAMING WHERE REQUIRED TO SUPPORT CONCEALED BACKING.
- (L) WHERE ITEMS PENETRATE FIRE RESISTIVE MEMBRANES AND SMOKE/FIRE RATED PARTITIONS/BARRIERS/WALLS, PROVIDED THROUGH PENETRATION FIRE STOPPING SYSTEMS WITH TIME RATINGS EQUIVALENT TO THE FIRE RATING OF THE PARTITION/BARRIER/WALL PENETRATED, AND WITH "F" RATING EQUAL TO, OR GREATER THAN, THE FIRE RATING OF THE PARTITION/BARRIER/WALL PENETRATED.
- (M) SPLICES IN STUDS AND BRACES ARE NOT PERMITTED.
- (N) INSTALL CONTINUOUS METAL FRAMING AND BACKING TO FULLY SUPPORT EDGES OF GYPSUM BOARD.
- (O) ALIGN FACE OF INTERIOR FINISHES WHERE CONSTRUCTION INVOLVES MORE THAN ONE FINISH AT CONTINUOUS WALL SURFACES, U.O.N.
- (P) ACOUSTICAL SEALANT MAY BE USED IN INTERIOR PARTITIONS THAT ARE NOT FIRE RATED.
- (Q) INSTALL 5/8" MOLD / MILDEW / MOISTURE-RESISTANT TYPE 'X' GYP. BD. WITHIN 5 FEET OF PLUMBING FIXTURES.
- (R) INSTALL SOUND ATTENUATION ACOUSTICAL BATTS IN ACOUSTICAL PARTITIONS FULL HEIGHT OF GYPSUM WALLBOARD, U.O.N.

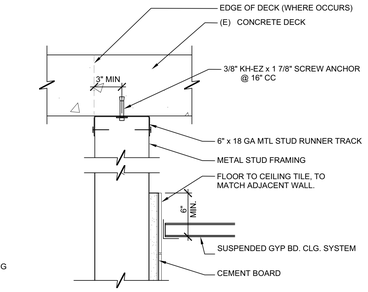
27 GENERAL INTERIOR PARITITION NOTES
NTS



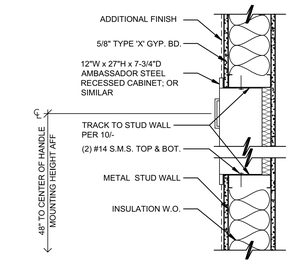
17 (N) FE CABINET @ CONCRETE WALL
SCALE: NTS



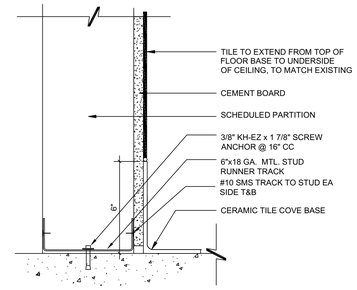
12 FURRING WALL
NON-RATED PARTITION
SCALE: 1 1/2" = 1'-0"



6 NON-RATED BRACED HEAD OF WALL
SCALE: 3" = 1'-0"



1 RECESSED FIRE EXTINGUISHER AT METAL STUD WALL
SCALE: 1 1/2" = 1'-0"



7 TYP. WALL BASE DETAIL
SCALE: 3" = 1'-0"

ATTENTION
KITCHEN COOKING EQUIPMENT AND COOKING IS PROHIBITED

BACKGROUND COLOR SHALL CONTRAST WITH CHARACTERS AND SYMBOLS

NOTES:
1. VERIFY WITH THE FACILITY THE MESSAGES/TEXT BEFORE FABRICATION.
2. 5/8" MIN TEXT CHARACTER HEIGHT.
3. TEXT CHARACTERS AND SYMBOLS CONTRAST WITH THE BACKGROUND/NON-GLARE SURFACE.
4. TEXT BASELINES SHALL NOT BE BELOW 40" AFF.
5. SIGN SHALL HAVE ROUNDED CORNERS AND BEVELED EDGES.
6. ALL SIGNAGE SHALL HAVE SECURITY ANCHORAGE.
7. COORDINATE SIGNAGE LOCATIONS, QUANTITY AND VERBIAGE WITH THE FACILITY.
8. FOR INSTALLATION OF SIGNAGE. SEE DETAIL 4

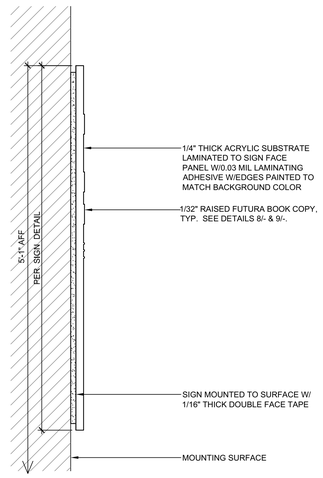
2 ATTENTION SIGN
SCALE: 3" = 1'-0"

NOTES:
1. VERIFY WITH THE FACILITY THE MESSAGES/TEXT BEFORE FABRICATION.
2. 5/8" MIN TEXT CHARACTER HEIGHT.
3. TEXT CHARACTERS AND SYMBOLS CONTRAST WITH THE BACKGROUND/NON-GLARE SURFACE.
4. TEXT BASELINES SHALL NOT BE BELOW 40" AFF.
5. SIGN SHALL HAVE ROUNDED CORNERS AND BEVELED EDGES.
6. ALL SIGNAGE SHALL HAVE SECURITY ANCHORAGE.
7. COORDINATE SIGNAGE LOCATIONS, QUANTITY AND VERBIAGE WITH THE FACILITY.
8. FOR INSTALLATION OF SIGNAGE. SEE DETAIL 4

13 ANSUL SIGNAGE
SCALE: N.T.S.

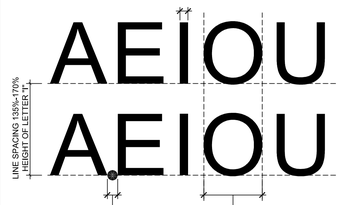
VISUAL CHARACTER HEIGHTS		
HEIGHT TO FINISH FLOOR OR GROUND FROM BASELINE OF CHARACTER	**HORIZONTAL VIEWING DISTANCE**	**MINIMUM CHARACTER HEIGHT**
40 INCHES (1015 mm) TO LESS THAN OR EQUAL TO 70 INCHES (1780 mm)	LESS THAN 72 INCHES (1830 mm)	5/8 INCHES (16 mm)
	72 INCHES (1830 mm) AND GREATER	5/8 INCHES (16 mm), PLUS 1/8 INCH (3.2 mm) PER FOOT (305 mm) OF VIEWING DISTANCE ABOVE 72 INCHES (1830 mm)
GREATER THAN 70 INCHES (1780 mm) TO LESS THAN OR EQUAL TO 120 INCHES (3050 mm)	LESS THAN 180 INCHES (4570 mm)	2 INCHES (51 mm)
	180 INCHES (4570 mm) AND GREATER	2 INCHES (51 mm), PLUS 1/8 INCH (3.2 mm) PER FOOT (305 mm) OF VIEWING DISTANCE ABOVE 180 INCHES (4570 mm)
GREATER THAN 120 INCHES (3050 mm).	LESS THAN 21 FEET (6400 mm)	3 INCHES (75 mm)
	21 FEET (6400 mm) AND GREATER	3 INCHES (75 mm), PLUS 1/8 INCH (3.2 mm) PER FOOT (305 mm) OF VIEWING DISTANCE ABOVE 21 FEET (6400 mm)

8 VISUAL CHARACTER HEIGHT
SCALE: N.T.S.



4 SIGNAGE INSTALLATION DETAIL
SCALE: N.T.S.

STROKE WIDTH:
10-20% OF LETTER "I" HEIGHT



CHARACTER SPACING:
10% MIN. - 35% MAX. OF LETTER "I" STROKE WIDTH

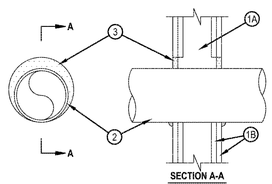
CHARACTER PROPORTIONS:
55% MIN. - 100% MAX. OF LETTER "I" HEIGHT

9 VISUAL SIGNAGE CHARACTERS
SCALE: N.T.S.

System No. W-L-1054
W-L-1054

CLASSIFIED C UL US
Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings —1 and 2 Hr (See Items 1 and 3)	F Ratings — 1 and 2 Hr (See Items 1 and 3)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating (Without Movement) at Ambient — Less Than 1 CFM/sq ft	FH Ratings —1 and 2 Hr (See Items 1 and 3)
L Rating (Without Movement) at 400°F — Less Than 1 CFM/sq ft	FTH Rating — 0 Hr
M Rating (Movement) — See Table 1	FTH Rating — 0 Hr
	L Rating at Ambient — Less Than 5.1 L/s/m2
	L Rating at 204°C — Less Than 5.1 L/s/m2



1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. For M Rating, steel studs to be min 3-5/8 in. (92 mm) wide. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.
   B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. (819 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls.

The F and FH Ratings of the firestop system are equal to the fire rating of the wall assembly. The M Rating is applicable only to 1 hr rated walls.

HILTI — Hilti Firestop Systems

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Page: 1 of 2

System No. W-L-1054
W-L-1054

2. Through-Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. (57 mm). Pipe may be installed with continuous point contact. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
   C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm) . diam steel conduit.
   D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE MAX Intumescent Sealant

Movement Direction	Penetrant Item	Nominal Penetrant Diameter	Annular Space	Movement	Sealant Depth	F-Rating	L Rating with Movement
Y	2A, 2C*	2 in.	Max 2-1/4 in.	5%	5/8 in.	1 hr	N/A
Z	2A, 2C*	2 in.	2-1/4 in.	0.25 in.	5/8 in.	1 hr	N/A

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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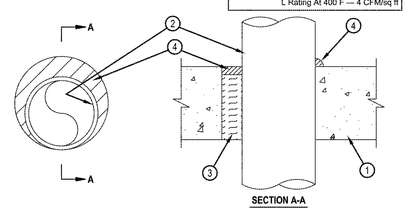
System No. C-AJ-1150
CAJ 1150

CLASSIFIED C UL US
Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 3 Hr	F Rating — 3 Hr
T Rating —0 Hr	FT Rating — 0 Hr
L Rating At Ambient — Less Than 1 CFM/sq ft	FH Rating — 3 Hr
L Rating At 400 F — 4 CFM/sq ft	FTH Rating — 0 Hr
W Rating — Class 1 (See Item 4)	L Rating At Ambient — Less Than 1 CFM/sq ft
	L Rating At 400 F — 4 CFM/sq ft



1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks *. Max diam of opening is 8 in. (203 mm).
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Through Penetrants — One metallic pipe or conduit to be installed within the firestop system. Pipe or conduit to be rigidly supported on both sides of floor or wall assembly. The annular space shall be min 0 in. (point contact) to max 1-3/8 in. (35 mm). The following types and sizes of metallic pipes or conduits may be used:
   A. Steel Pipe — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe.
   B. Iron Pipe — Nom 6 in. (152 mm) diam (or smaller) cast or ductile iron pipe.
   C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or nom 6 in. diam (or smaller) steel conduit.
3. Packing Material — Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall to accommodate the required thickness of fill material.
4. Fill, Void or Cavity Material* — Sealant — Min 1/4 in. (6 mm) thickness of fill material applied within the annulus, flush with top surface of floor and with both surfaces of wall. At the point contact location between pipe and concrete, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the concrete/pipe interface on the top surface of floor and on both surfaces of wall. W Rating applies only when CFS-S SIL GG, CFS-S SIL SL (floors only), CP601S or CP604 sealant is used.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP601S, CP604, CFS-S SIL GG, CFS-S SIL SL (floors only), CP606 or FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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30 PENETRATION THROUGH RATED ASSEMBLIES UL LISTINGS
NTS

CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

2/14/2024 4:17 PM

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
11/04/24
23-5898
Approval of this plan does not authorize or approve any omission or deviation from applicable requirements. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

REV.	DATE:	DESCRIPTION

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project No.: 5892.00
Project Phase: FINAL DRAWINGS

HIBSER YAMAUCHI Architects, Inc.
4602 2nd Street, Suite #3
Davis, CA 95618
530.758.3270 office
530.758.4789 fax

LICENSED ARCHITECT KEN YAMAUCHI C-26566 02-28-2025 RENEWAL DATE STATE OF CALIFORNIA

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS
PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024
SHEET TITLE: ARCHITECTURAL DETAILS
CDCR Project No.: 20-034

SHEET NUMBER
A9.0

V3

GENERAL NOTES

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

GENERAL NOTES
100SN001

1. INTERPRETATION OF DRAWINGS & SPECIFICATIONS
   A. WHERE SPECIFICATIONS HAVE BEEN PREPARED FOR THIS PROJECT, THEY ARE ARRANGED IN SEVERAL SECTIONS, BUT SUCH SEPARATION SHALL NOT BE CONSIDERED AS THE LIMITS OF THE WORK REQUIRED OF ANY SEPARATE TRADE. THE TERMS AND CONDITIONS OF SUCH LIMITATIONS ARE WHOLLY BETWEEN THE CONTRACTOR AND THEIR SUBCONTRACTORS.
   B. IN GENERAL, THE WORKING DETAILS WILL INDICATE DIMENSIONS, POSITION AND KIND OF CONSTRUCTION, AND THE SPECIFICATIONS, QUALITIES AND METHODS. ANY WORK INDICATED ON THE WORKING DETAILS AND NOT MENTIONED IN THE SPECIFICATIONS, OR VICE VERSA, SHALL BE FURNISHED AS THOUGH FULLY SET FORTH IN BOTH. WORK NOT PARTICULARLY DETAILED, MARKED OR SPECIFIED, SHALL BE IDENTICAL OR SIMILAR TO LIKE CASES OF CONSTRUCTION THAT ARE DETAILED, MARKED OR SPECIFIED. IF CONFLICTS OCCUR ON DRAWINGS AND/OR SPECIFICATIONS, THE MOST EXPENSIVE MATERIALS OR METHODS WILL PREVAIL.
   C. SHOULD AN ERROR APPEAR IN THE WORKING DETAILS OR SPECIFICATIONS OR IN WORK DONE BY OTHERS AFFECTING THIS WORK, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AT ONCE AND IN WRITING. IF THE CONTRACTOR PROCEEDS WITH THE WORK SO AFFECTED WITHOUT HAVING GIVEN SUCH WRITTEN NOTICE AND WITHOUT RECEIVING THE NECESSARY APPROVAL, DECISION OR INSTRUCTIONS IN WRITING FROM THE OWNER, THEN THE CONTRACTOR SHALL HAVE NO VALID CLAIM AGAINST THE OWNER, FOR THE COST OF SO PROCEEDING AND SHALL MAKE GOOD ANY RESULTING DAMAGE OR DEFECT. NO VERBAL APPROVAL, DECISION, OR INSTRUCTION SHALL BE VALID OR BE THE BASIS FOR ANY CLAIM AGAINST THE OWNER, ITS OFFICERS, EMPLOYEES OR AGENTS. THE FOREGOING INCLUDES TYPICAL ERRORS IN THE SPECIFICATIONS OR NOTATIONAL ERRORS IN THE WORKING DETAILS WHERE THE INTERPRETATION IS DOUBTFUL OR WHERE THE ERROR IS SUFFICIENTLY APPARENT AS TO PLACE A REASONABLY PRUDENT CONTRACTOR ON NOTICE THAT, SHOULD THE CONTRACTOR ELECT TO PROCEED, THEY ARE DOING SO AT THEIR OWN RISK.
2. CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES AND REGULATIONS.
3. SHOP DRAWING NOTE:
   A. WHEN NOT ADDRESSED BY DIVISION 1 OF THE SPECIFICATIONS, SUBMITTALS SHALL BE ELECTRONIC PDF FORMAT.
   B. THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE STRUCTURAL ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT BY INDICATING WHICH MATERIAL THE CONTRACTOR INTENDS TO FURNISH AND INSTALL, AND BY DETAILING THE FABRICATION AND INSTALLATION METHODS THE CONTRACTOR INTENDS TO USE ON A STANDALONE SET OF DOCUMENTS. DUPLICATION OF DESIGN DOCUMENTS FOR THE PURPOSE OF SHOP DRAWINGS IS NOT ACCEPTABLE.
   C. PRIOR TO FABRICATION, SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW BY THE STRUCTURAL ENGINEER. SHOP DRAWING SUBMITTALS SHALL INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO, STRUCTURAL STEEL, REINFORCING STEEL, & GLUE-LAMINATED BEAMS.
   D. PRIOR TO SUBMISSION THE CONTRACTOR SHALL REVIEW ALL SUBMITTALS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS AND SHALL STAMP SUBMITTALS AS BEING "REVIEWED FOR CONFORMANCE".
   E. SHOP DRAWING SUBMITTALS PROCESSED BY THE STRUCTURAL ENGINEER ARE NOT CHANGE ORDERS.
   F. ANY DETAIL ON THE SHOP DRAWINGS THAT DEVIATES FROM THE CONTRACT DOCUMENTS SHALL CLEARLY BE MARKED WITH THE NOTE "THIS IS A CHANGE".
   G. SHOP DRAWINGS OR CALCULATIONS SUBMITTED FOR REVIEW THAT REQUIRE RESUBMITTAL FOR RE-REVIEW SHALL BE BILLED HOURLY FOR SUCH TIME TO THE GENERAL CONTRACTOR. RE-REVIEW WILL NOT PROCEED WITHOUT WRITTEN APPROVAL FROM THE GENERAL CONTRACTOR FOR ADDITIONAL ENGINEERING REVIEW SERVICES.
4. SAFETY NOTE:
   A. IT IS THE CONTRACTORS RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS, AS THEY APPLY TO THIS PROJECT, OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA LATEST EDITION, AND ALL OSHA REQUIREMENTS.
   B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED. SHORING INDICATIONS (LOCATION, DIRECTION, DURATION, ETC.) ARE ONLY SHOWN ON THE STRUCTURAL DWGS WHEN REQUIRED TO IMPLEMENT THE DESIGN INTENT OF THE FINAL WORK PRODUCT. DETERMINATION WHETHER SHORING IS REQUIRED FOR TEMPORARY OR INTERMEDIATE CONDITIONS DURING CONSTRUCTION IS WHOLLY THE RESPONSIBILITY OF THE CONTRACTOR.
   C. THE OWNER AND THE STRUCTURAL ENGINEER DO NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
5. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER WHERE A CONFLICT OR DISCREPANCY OCCURS BETWEEN THE STRUCTURAL DRAWINGS AND ANY OTHER PORTION OF THE CONTRACT DOCUMENTS OR EXISTING FIELD CONDITIONS. SUCH NOTIFICATION SHALL BE GIVEN IN DUE TIME SO AS NOT TO AFFECT THE CONSTRUCTION SCHEDULE. IN CASE OF A CONFLICT BETWEEN STRUCTURAL DRAWINGS AND SPECIFICATIONS THE MORE RESTRICTIVE CONDITION SHALL TAKE PRECEDENCE UNLESS WRITTEN APPROVAL HAS BEEN GIVEN FOR THE LEAST RESTRICTIVE. CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PRIOR TO COMMENCING ANY WORK.
6. WHEN CONSTRUCTION ATTACHES TO OR IS WITHIN AN EXISTING BUILDING, A COMPLETE SET OF DRAWINGS OF THE EXISTING BUILDING SHALL BE KEPT ON THE JOB SITE. CONTRACTOR TO OBTAIN THESE DRAWINGS FROM THE OWNER (IF THEY ARE AVAILABLE).
7. CONTRACTOR SHALL PROVIDE AN ALLOWANCE EQUAL TO 2% OF THE BID FOR STRUCTURAL STEEL, MISC. IRON AND REINFORCING STEEL TO BE USED AT THE DISCRETION OF THE STRUCTURAL ENGINEER. UNUSED AMOUNT TO REVERT TO THE OWNER UPON COMPLETION OF THE JOB.
8. ANY SUBSTITUTIONS FOR STRUCTURAL MEMBERS, HARDWARE OR DETAILS SHALL BE REVIEWED BY THE ARCHITECT AND STRUCTURAL ENGINEER. SUCH REVIEW WILL BE BILLED ON A TIME AND MATERIALS BASIS TO THE GENERAL CONTRACTOR WITH NO GUARANTEE THAT THE SUBSTITUTION WILL BE ALLOWED.
9. DO NOT SCALE DRAWINGS. CONTACT THE ARCHITECT OR STRUCTURAL ENGINEER FOR ANY DIMENSIONS NOT SHOWN.
10. THESE DRAWINGS ARE NOT COMPLETE UNTIL REVIEWED AND ACCEPTED BY LOCAL BUILDING OFFICIALS AND THE OWNER AND SIGNED BY THE STRUCTURAL ENGINEER.

DESIGN CRITERIA
100SN002

1. CODES AND STANDARDS
   2022 CALIFORNIA BUILDING CODE (CBC)
   ASCE 7-16
   ACI 318-19
   AISC 360-16, 341-16, 358-16
   AISI S100-16 w/ S2-20, S240-20, S400-20
2. LATERAL LOADS
   SEISMIC:
   SITE CLASS D
   S_{DS} = 1.487
   C_D = IV
   I_P = 1.0 TYPICAL
   I_S = 1.5 PER ASCE 7-16 SECT 13.1.3
   RISK CATEGORY: IV
   SEISMIC DESIGN CATEGORY: F

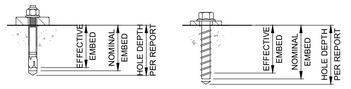
STRUCTURAL STEEL
500SN001

1. FABRICATION, ERECTION AND MATERIALS SHALL CONFORM WITH THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, THE AISC SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS AND THE AISC CODE OF STANDARD PRACTICE, LATEST EDITIONS ADOPTED BY THE BUILDING CODE SPECIFIED IN THE DESIGN CRITERIA NOTES, UNO.
2. ALL HOT ROLLED STEEL SHAPES, PLATES AND BARS SHALL BE NEW STEEL CONFORMING TO ASTM A6, UNO IN THE STRUCTURAL DRAWINGS. STRUCTURAL STEEL SHALL BE AS FOLLOWS:
   A. L- SHAPES: ASTM A572 GRADE 50
   B. ALL OTHER PLATE MATERIAL: ASTM A572 GRADE 50, UNO
   C. PLATE GIRDERS: ASTM A572 GRADE 50
3. STRUCTURAL BOLTS AND THREADED FASTENERS
   A. BOLTED CONNECTIONS SHALL CONSIST OF UNFINISHED BOLTS CONFORMING TO ASTM F3125 GRADE A325 UNO.
   B. WHERE HIGH-STRENGTH BOLTS ARE SPECIFIED, BOLTS CONFORMING TO ASTM F3125 GRADE A325 OR GRADE A490 SMALL BE PROVIDED AS INDICATED. HIGH STRENGTH BOLTS IN SLIP-CRITICAL AND PRETENSION JOINTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F1852 FOR TWIST-OFF TYPE TENSION CONTROL BOLT PRETENSIONING OR BE PROVIDED WITH DIRECT TENSION INDICATOR WASHERS CONFORMING TO THE REQUIREMENTS OF ASTM F959.
   C. ANCHOR RODS CAST IN CONCRETE OR MASONRY SHALL BE HEADED BOLTS WITH CUT THREAD, FULL DIAMETER BODY STYLE CONFORMING TO ASTM F1554 GRADE 36, 55 (WELDABLE PER S1 SUPPLEMENTARY REQUIREMENTS), OR GRADE 105 AS INDICATED ON DRAWINGS. IN LIEU OF HEADED ANCHOR RODS, THREADED ROD CONFORMING TO THE ABOVE SPECIFICATIONS MAY BE USED WITH A SINGLE NUT WELDED TO THE ROD OR DOUBLE NUTS TIGHTENED TO PREVENT ROTATION. ANCHOR ROD PROJECTION ABOVE TOP OF FOUNDATION SHALL BE AS NOTED ON THE DRAWINGS.
   D. BOLTED CONNECTIONS SHALL HAVE WASHERS CONFORMING TO ASTM F436 UNO. WASHERS MAY BE OMITTED AT SNUG-TIGHTENED AND SLIP-CRITICAL CONNECTIONS, EXCEPT WHERE REQUIRED BY THE RCSC SPECIFICATION FOR STRUCTURAL JOINTS, LATEST EDITION.
   E. BASE PLATES SHALL HAVE NUTS AND WASHERS AT TOP AND BOTTOM OF PLATE. WASHERS FOR BASE PLATES SHALL BE A36 SQUARE OR CIRCULAR PLATE UNLESS ASTM F844 WASHERS ARE PERMITTED. SEE BASE PLATE DETAILS FOR PLATE WASHER SIZE AND PERMISSIBLE WASHER TYPE.
   F. THREADED RODS SHALL CONFORM TO ASTM A36 UNLESS NOTED OTHERWISE ON THE DRAWINGS.
   G. PINS: ALL PINS IN PIN CONNECTED MEMBERS SHALL CONFORM TO ASTM A36 OR ASTM A108 AS INDICATED ON THE DRAWINGS.
4. ADDITIONAL REQUIREMENTS FOR "SLIP-CRITICAL" BOLTED CONNECTIONS:
   A. "SLIP-CRITICAL" CONNECTIONS (A325-SC DESIGN VALUES WITH SPECIAL INSPECTION) ARE REQUIRED AT ALL MOMENT FRAME CONNECTIONS, BRACED FRAME CONNECTIONS, AT ALL CONNECTIONS ALONG CHORD LINES AND DRAG LINES (AS NOTED ON PLANS), AND UNO, AT ALL BOLTS IN OVERSIZED OR SLOTTED HOLES.
   B. THE SPECIAL INSPECTOR MUST BE PRESENT DURING THE INSTALLATION AND TIGHTENING OPERATION OF "SLIP-CRITICAL" CONNECTIONS.
5. PROVIDE 3/4" DIAMETER STITCH BOLTS AND RING FILLS, SPACED AT NOT MORE THAN 2'-0" ON CENTER FOR ALL DOUBLE ANGLE MEMBERS UNO.
6. BOLT HOLES SHALL BE AISC STANDARD HOLES UNLESS SPECIFIED OTHERWISE. USE STANDARD AISC GAGE AND PITCH FOR BOLTS EXCEPT AS NOTED OTHERWISE.
7. WELDING SHALL BE DONE BY THE ELECTRIC ARC PROCESS IN ACCORDANCE WITH AMERICAN WELDING SOCIETY STANDARDS, USING ONLY CERTIFIED WELDERS. ALL GROOVE WELDS SHALL HAVE COMPLETE PENETRATION UNLESS NOTED OTHERWISE. ALL ELECTRODES FOR WELDING SHALL COMPLY WITH AWS D1.1 AND D1.8 AS APPLICABLE, E70 SERIES MINIMUM.
8. WELD LENGTHS SPECIFIED ON PLANS ARE THE NET EFFECTIVE LENGTHS REQUIRED.
9. MINIMUM FILLET WELDS: (T = THICKNESS OF THINNER PART JOINED)
   3/16" @ T < 1/2"
   1/4" @ T < 3/4"
   5/16" @ T > 3/4"
10. WELDING PROCEDURE SPECIFICATIONS (WPS) FOR SHOP AND FIELD PREQUALIFIED WELD JOINTS AND WELD JOINTS QUALIFIED BY TEST SHALL BE SUBMITTED FOR REVIEW BY THE STRUCTURAL ENGINEER AND THE OWNER'S TESTING LABORATORY PRIOR TO FABRICATION. ALL WELDING PROCEDURE ITEMS SUCH AS BASE METALS, WELDING PROCESSES, FILLER METALS AND JOINT DETAILS THAT MEET THE REQUIREMENTS OF AWS D1.1 SECTION 3 SHALL BE CONSIDERED AS PREQUALIFIED. ANY CHANGE OR SUBSTITUTION THAT IS BEYOND THE RANGE OR TOLERANCE OR REQUIREMENTS FOR PREQUALIFICATION SHALL BE QUALIFIED BY TEST PER AWS D1.1 SECTION 4 PART B. SUBMIT TEST REPORTS SHOWING SUCCESSFUL PASSAGE OF QUALIFICATION TESTS FOR ALL NON-PREQUALIFIED WELDING PROCEDURE SPECIFICATIONS.

POST-INSTALLED ANCHORS
300SN001

1. FOR CONCRETE CONSTRUCTION, POST-INSTALLED ANCHORS SHALL BE ONE OF THE FOLLOWING:
   A. ADHESIVE ANCHORS FOR THRD ROD & REBAR:
      a. HILTI HIT-HY 200 PER ESR-3187
      b. HILTI HIT-RE500 V3 PER ESR-3814
      c. SIMPSON SET-XP PER ESR-2508
      d. SIMPSON SET-3G PER ESR-4057
      e. DEWALT PURE 110+ ESR-3298
   B. EXPANSION ANCHORS:
      a. HILTI KB-TZ2 PER ESR-4266
      b. SIMPSON STRONG BOLT 2 PER ESR-3037
      c. DEWALT POWER-STUD+ SD2, SD4 OR SD6 AS NOTED PER ESR-2502
   C. SCREW ANCHORS:
      a. HILTI KWIK HUS-EZ (KH-EZ) PER ESR-3027
      b. SIMPSON TITEN HD PER ESR-2713
      c. DEWALT SCREWBOLT+ PER ESR-3889
2. FOR GROUT-FILLED MASONRY CONSTRUCTION, POST-INSTALLED ANCHORS SHALL BE ONE OF THE FOLLOWING:
   A. ADHESIVE ANCHORS FOR THRD ROD & REBAR:
      a. HILTI HIT-HY 270 PER ESR-4143
      b. SIMPSON SET-XP PER IAPMO UES ER-265
      c. DEWALT AC 100+ GOLD PER ESR-3200
   B. EXPANSION ANCHORS:
      a. HILTI KB-TZ2 PER ESR-4561
      b. SIMPSON STRONG-BOLT 2 PER IAPMO ER-240
      c. DEWALT POWER-STUD+ SD1 PER ESR-2966
   C. SCREW ANCHORS:
      a. HILTI KWIK HUS-EZ (KH-EZ) PER ESR-3056
      b. SIMPSON TITEN HD PER ESR-1056
      c. DEWALT SCREWBOLT+ PER ESR-4042
3. FOR UNREINFORCED MASONRY CONSTRUCTION, ADHESIVE ANCHORS SHALL BE ONE OF THE FOLLOWING:
   a. HILTI HY-270 PER ESR-4144
   b. SIMPSON ET-HP PER ESR-3630
   c. DEWALT AC100+ GOLD PER ESR-4105
4. PLASTIC MESH SCREEN TUBES SHALL BE PROVIDED AND EXISTING WALL THICKNESS AND MORTAR SHEAR STRENGTH SHALL MEET THE REQUIRING EXISTING REINFORCING BARS. DO NOT INSTALL ANCHORS WITHIN 1 1/2" OF CMU HEAD JOINTS. DO NOT INSTALL ANCHORS IN PRESTRESSED CONCRETE ELEMENTS.
5. ANCHOR PROJECTED TALLIED FROM THE BOTTOM INTO METAL DECK WITH CONCRETE SHALL BE INSTALLED IN THE CENTER OF THE LOW FLUTE OF THE DECKING UNLESS NOTED OTHERWISE IN EVALUATION REPORT. THE DECKING SHALL HAVE A MINIMUM THICKNESS OF 20 GAUGE. THE MINIMUM THICKNESS OF THE CONCRETE ABOVE THE HIGH FLUTE OF THE METAL DECK SHALL BE AS INDICATED IN THE EVALUATION REPORT. SEE EVALUATION REPORT FOR ADDITIONAL REQUIREMENTS, INCLUDING MINIMUM DIMENSIONS FOR FLUTE WIDTH AND DEPTH.
6. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS GIVEN IN THE EVALUATION REPORT. PROVIDE MINIMUM EMBEDMENT PROVIDED IN ICC ESR REPORT UNLESS NOTED OTHERWISE.
7. PROVIDE SPECIAL INSPECTION AS INDICATED IN THE STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING AND THE EVALUATION REPORT.
8. WHEN INSTALLING POST-INSTALLED ANCHORS IN EXISTING CONCRETE OR MASONRY, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING EXISTING REINFORCING BARS. DO NOT INSTALL ANCHORS WITHIN 1 1/2" OF CMU HEAD JOINTS. DO NOT INSTALL ANCHORS IN PRESTRESSED CONCRETE ELEMENTS.
9. ANCHORS INSTALLED FROM THE BOTTOM INTO METAL DECK WITH CONCRETE SHALL BE INSTALLED IN THE CENTER OF THE LOW FLUTE OF THE DECKING UNLESS NOTED OTHERWISE IN EVALUATION REPORT. THE DECKING SHALL HAVE A MINIMUM THICKNESS OF 20 GAUGE. THE MINIMUM THICKNESS OF THE CONCRETE ABOVE THE HIGH FLUTE OF THE METAL DECK SHALL BE AS INDICATED IN THE EVALUATION REPORT. SEE EVALUATION REPORT FOR ADDITIONAL REQUIREMENTS, INCLUDING MINIMUM DIMENSIONS FOR FLUTE WIDTH AND DEPTH.
10. THE CONCRETE SHALL HAVE ATTAINED ITS MINIMUM DESIGN STRENGTH PRIOR TO INSTALLATION OF THE ANCHORS.
11. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT THE TIME OF ANCHOR INSTALLATION PER ACI 318, CHAPTER 17.
12. INSTALLER CERTIFICATION AND INSPECTION IS REQUIRED FOR HORIZONTAL AND UPWARDLY INCLINED ADHESIVE ANCHORS SUBJECTED TO SUSTAINED TENSION LOADING IN ACCORDANCE WITH ACI 318, CHAPTER 17.
14. IF TEMPERATURE OF BASE MATERIAL AT TIME OF ADHESIVE ANCHOR INSTALLATION IS 45 DEGREES FARENHEIT OR LOWER, AN "ACRYLIC" OR COLD WEATHER ADHESIVE IS REQUIRED. USE DEWALT AC100+, SIMPSON AT-XP, OR HILTI HIT-HY200 WHEN THIS OCCURS.
15. THE INSPECTION OF THE ANCHORS SHALL BE DONE BY A QUALIFIED INSPECTION AGENCY AND A REPORT OF THE INSPECTION RESULTS SHALL BE SUBMITTED TO THE GOVERNING AGENCY AND ARCHITECT/STRUCTURAL ENGINEER.

INSTALLED ANCHOR DIAGRAMS



EXPANSION ANCHOR SCREW ANCHOR

POST-INSTALLED ANCHOR TESTING CRITERIA
305TN002

1. EXPANSION ANCHOR TESTING SHALL COMPLY WITH INSTALLATION TORQUE VALUES PROVIDED IN MANUFACTURER'S EVALUATION REPORT. EPOXY AND SCREW ANCHOR TESTING SHALL COMPLY WITH TENSION TEST VALUES SPECIFIED IN DRAWINGS. TESTING FREQUENCY SHALL COMPLY WITH CBC SECTION 1910A.5.3.
2. APPLY PROOF TEST LOADS TO EXPANSION 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 TO APPLY THE TEST LOAD.
3. REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY THE FIXTURE(S).
4. TEST EQUIPMENT (INCLUDING TORQUE WRENCHES) IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.
5. THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:
   A. HYDRAULIC RAM METHOD: THE ANCHOR SHALL HAVE NO OBSERVABLE MOVEMENT FOR A MINIMUM OF 15 SECONDS AT THE APPLICABLE TEST LOAD. FOR EXPANSION AND SLEEVE TYPE ANCHORS, A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER UNDER THE NUT BECOMES LOOSE.
   B. TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS:
      EXPANSION TYPE:
      - ONE-QUARTER (1/4) TURN OF THE NUT FOR 3/8"Ø SLEEVE ANCHORS.
      - ONE-HALF (1/2) TURN OF THE NUT FOR 1/4"Ø AND LARGER ANCHORS.
6. PROVIDE SPECIAL INSPECTION AS NOTED IN THE ICC REPORT.
7. IF ANY ANCHOR FAILS TESTING, ALL ANCHORS OF THE SAME TYPE AND INSTALLED BY THE SAME TRADE SHALL BE TESTED, UNTIL TWENTY (20) CONSECUTIVE ANCHORS PASS, THEN RESUME THE INITIAL TEST FREQUENCY. ANCHORS PREVIOUSLY TESTED PRIOR TO FAILED TEST SHALL NOT BE RETESTED.
8. TORQUE EXPANSION ANCHORS TO THE VALUES SHOWN BELOW:

CONCRETE EXPANSION ANCHOR TORQUE TEST VALUE (FT-LB)

DIAMETER	HILTI KB-TZ2		SIMPSON STRONG BOLT 2		DEWALT POWER-STUD+ SD2	DEWALT POWER-STUD+ SD4 & SD6
	CARBON STEEL	STAINLESS STEEL	CARBON STEEL	STAINLESS STEEL	CARBON STEEL	STAINLESS STEEL
1/4"	4	6	4	4		6
3/8"	30	30	30	30	20	25
1/2"	50	40	60	65	40	40
5/8"	40	60	90	80	60	60
3/4"	110	125	150	150	110	110
1"	185	185	230			

MASONRY EXPANSION ANCHOR TORQUE TEST VALUE (FT-LB)

DIAMETER	HILTI KB-TZ2		SIMPSON WEDGE-ALL	DEWALT POWER-STUD+ SD1
	CARBON STEEL	STAINLESS STEEL	CARBON STEEL	CARBON STEEL
1/4"	4	6		
3/8"	15	15	20	20
1/2"	25	25	35	40
5/8"	30	35	55	50
3/4"	50	50	120	

ABBREVIATIONS
100SN003

(A) - OCCURS ABOVE
AB - ANCHOR BOLT
ABV - ABOVE
ADDL - ADDITIONAL
AHU - AIR HANDLING UNIT
ALT - ALTERNATE
APPROX - APPROXIMATE
ARCH - ARCHITECTURAL
(B) - OCCURS BELOW
BLDG - BUILDING
BLKG - BLOCKING
BLW - BELOW
BM - BEAM
B.O. - BOTTOM OF
BOF - BOTTOM OF FOOTING
BOTT - BOTTOM
BRCG - BRACING
BRG - BEARING
BTWN - BETWEEN
BYND - BEYOND
CC - CENTER TO CENTER
CG - CENTER OF GRAVITY
CJ - CONSTRUCTION JOINT
CJP - COMPLETE JOINT PENETRATION
CL - CENTERLINE
CLG - CEILING
CLR - CLEAR
CMU - CONCRETE MASONRY UNIT
COL - COLUMN
CONC - CONCRETE
CONN - CONNECTION
CONT - CONTINUOUS
CONTR - CONTRACTOR
COORD - COORDINATE
CSK - COUNTERSINK
DBL - DOUBLE
DF - DOUGLAS FIR
DIAG - DIAGONAL
DL - DEAD LOAD
DWG - DRAWING
(E) - EXISTING
EA - EACH
EF - EACH FACE OR EDGE FASTENER
EJ - EXPANSION JOINT
ELEV - ELEVATION
EN - EDGE NAILING
EOS - EDGE OF SLAB
EQ - EQUAL
EW - EACH WAY
FB - FACE OF BLOCK/BRICK OR FLAT BAR
FC - FACE OF CONCRETE
FDN - FOUNDATION
FF - FINISH FLOOR
FRMG - FRAMING
FRT - FIRE RETARDANT TREATED
FS - FACE OF STUD OR FAR SIDE
FTG - FOOTING
GA - GAUGE OR GAGE
GALV - GALVANIZED
GLB - GLUED LAMINATED BEAM
GR - GRADE
GYP - GYPSUM
HD - HOLDOWN
HDR - HEADER
HGR - HANGER
HK - HOOK
HORIZ - HORIZONTAL
HSB - HIGH STRENGTH BOLT
HSS - HOLLOW STRUCTURAL SECTION
HT - HEIGHT
JH - JOIST HANGER
LL - LIVE LOAD
LLH - LONG LEG HORIZONTAL
LLV - LONG LEG VERTICAL
LONGIT - LONGITUDINAL
LS - LAG SCREW
LW - LIGHTWEIGHT
MECH - MECHANICAL
MFR - MANUFACTURER
MI - MALLEABLE IRON
* - MARK
MTL - METAL
(N) - NEW
NIC - NOT IN CONTRACT
NS - NEAR SIDE
NTS - NOT TO SCALE
NW - NORMAL WEIGHT
O/ - OVER
OH - OPPOSITE HAND
OPNG - OPENING
OSB - ORIENTED STRAND BOARD
PC - PIECE
PERP - PERPENDICULAR
PJP - PARTIAL JOINT PENETRATION
PL - PLATE
PT - PRESSURE TREATED
PW - PUDDLE WELD
REINF - REINFORCING OR REINFORCEMENT
REQD - REQUIRED
RWD - REDWOOD
SC - SLIP CRITICAL
SCH - SCHEDULE
SEOR - STRUCTURAL ENGINEER OF RECORD
SHTG - SHEATHING
SIM - SIMILAR
SJ - SLAB CONTROL JOINT
SMS - SHEET METAL SCREW
SOG - SLAB-ON-GRADE
SP - STRUCTURAL PANEL
SPCG - SPACING
SQ - SQUARE
STD - STANDARD
STFNR - STIFFENER
STGRD - STAGGERED
STL - STEEL
STRUCT - STRUCTURAL
SW - SHEAR WALL
T&B - TOP & BOTTOM
T&G - TONGUE & GROOVE
THRD - THREADED
TN - TOE NAIL
T.O. - TOP OF
TOC - TOP OF CONCRETE (SLAB UNO)
TOF - TOP OF FOOTING OR TOP OF FRAMING
TOS - TOP OF STEEL
TOW - TOP OF WALL
TRANS - TRANSVERSE
TYP - TYPICAL
UNO - UNLESS NOTED OTHERWISE
VERT - VERTICAL
VIF - VERIFY IN FIELD
WF - WIDE FLANGE
WHS - WELDED HEADED STUD
WP - WORK POINT
WS - WOOD SCREW
WWF - WELDED WIRE FABRIC
XS - EXTRA STRONG
XXS - DOUBLE EXTRA STRONG
ø - ROUND OR DIAMETER

CDCR ACCESS COMPLIANCE
1334 1/8/2025
CASp-491

BUEHLER
600 Q STREET, SUITE 200
SACRAMENTO, CA 95811
916 443 0303

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
4/04/24
23-5898
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

REV.	DATE:	DESCRIPTION

STATE OF CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
FACILITY PLANNING, CONSTRUCTION AND MANAGEMENT DIVISION
DESIGN SERVICES AND STANDARDS BRANCH
DESIGN SERVICES SECTION

Project Phase: FNAL DRAWINGS
Project No: 5892.00

HIBSER YAMAUCHI Architects, Inc.
4602 2nd Street, Suite #3
Davis, CA 95618
530.753.7700 office
530.758.4787 fax

REGISTERED PROFESSIONAL ENGINEER
M. TODD THORP
No. 2990
STRUCTURAL
STATE OF CALIFORNIA
01/19/2024

PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS
PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE; P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024
SHEET TITLE: GENERAL NOTES
CDCR 25-034
Project Nos.:

SHEET NUMBER
S9.0

V3

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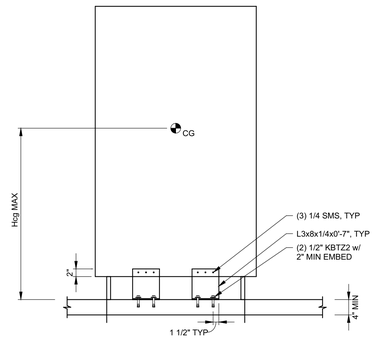
A / S9.1 ANCHORAGE SCHEDULE

DESCRIPTION	ITEM	BLDG	NO	LEG	CASTER	ANCHOR DETAIL
(E) VULCAN ELECTRIC RANGE	1	A01	1	X		1/S9.1
(E) VULCAN FRYER	2		1	X		1/S9.1
(E) HOBART GRIDDLE	3		1	X		1/S9.1
(E) GROEN 150 GALLON KETTLE	11		4	X		2/S9.1
(E) GROEN 80 GALLON KETTLE	12	C01	2	X		3/S9.1
(E) SOUTHBEND STEAMER	13		4	X		1/S9.1
(E) VULCAN CONVECTION OVEN	14		1	X		1/S9.1
(E) GARLAND CONVECTION OVEN	21	C04	8	X		1/S9.1
(E) GARLAND CONVECTION OVEN	31	C05	2		X	4/S9.1
(E) VULCAN CONVECTION OVEN	41	H02	2	X	X	1/S9.1 4/S9.1
	51	H03		X	X	
	61	H04		X	X	
	71	H05		X	X	
	81	H06		X	X	
	91	H07		X	X	

B / S9.1 EQUIPMENT SCHEDULE

DESCRIPTION	ITEM	WEIGHT	B	L	Hcg
(E) VULCAN ELECTRIC RANGE	1	750 LBS	22.3"	54.3"	38.7"
(E) VULCAN FRYER	2	927 LBS	28.5"	30.0"	35.6"
(E) HOBART GRIDDLE	3	207 LBS	22.0"	34.0"	10.9"
(E) GROEN 150 GALLON KETTLE	11	1891 LBS	37.0"	37.0"	36.1"
(E) GROEN 80 GALLON KETTLE	12	1023 LBS	30.5"	30.5"	29.5"
(E) SOUTHBEND STEAMER	13	950 LBS	31.0"	34.0"	45.3"
(E) VULCAN CONVECTION OVEN	14	880 LBS	29.0"	38.3"	46.7"
(E) GARLAND CONVECTION OVEN	21	1060 LBS	36.0 "	42.5"	47.0"
(E) GARLAND CONVECTION OVEN	31	1060 LBS	32.0"	44.5"	47.0"
(E) VULCAN CONVECTION OVEN	41-91	880 LBS	29.0"	38.3"	46.7"



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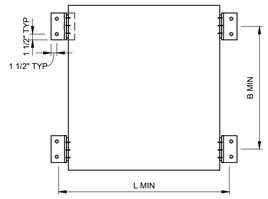
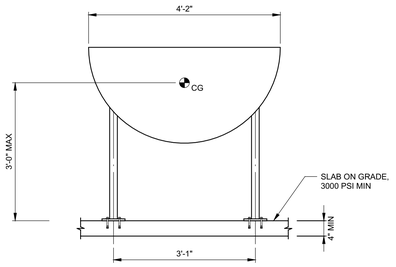


PLAN VIEW

(E) KITCHEN EQUIPMENT ON LEG
MAX OPERATING WT = 1060#

DETAIL 1 / S9.1 3/4" = 1'-0"

NOTE:
1. ALL L'S TO BE STAINLESS STEEL
2. IT IS ACCEPTABLE TO ORIENT THE ANGLES SO THAT THE FLOOR ANCHORS ARE LOCATED UNDER THE UNIT (AS SHOWN IN DASHED)
3. VALUES OF L, B, AND Hcg FOR EACH ITEM ARE ACCORDING TO **B/S9.0**



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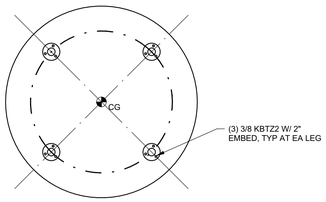
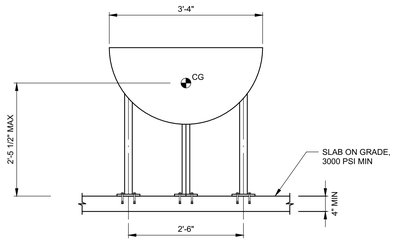


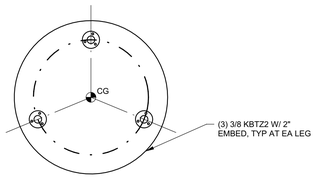
PLAN VIEW

(11) (E) GROEN 150 GALLON KETTLE
MAX OPERATING WT = 1891#

DETAIL 2 / S9.1 3/4" = 1'-0"



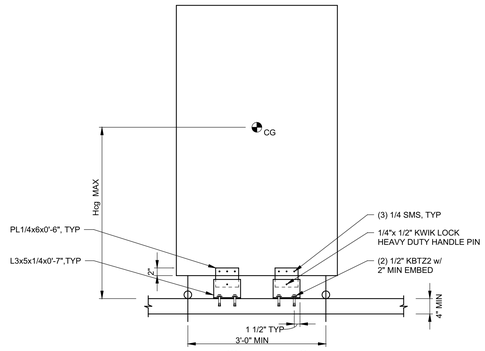
FRONT ELEVATION



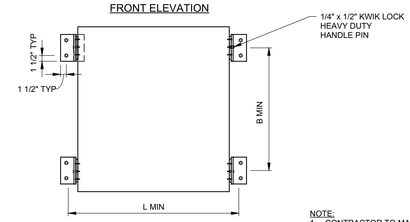
PLAN VIEW

(12) (E) GROEN 80 GALLON KETTLE
MAX OPERATING WT = 1023#

DETAIL 3 / S9.1 3/4" = 1'-0"



FRONT ELEVATION



PLAN VIEW

(E) KITCHEN EQUIPMENT ON CASTER
MAX OPERATING WT = 1060#

DETAIL 4 / S9.1 3/4" = 1'-0"

NOTE:
1. CONTRACTOR TO MAKE CERTAIN, NO VITAL ASPECT OF THE UNIT IS PUNCTURED, AND VERIFY CONCRETE IS 4" THICK (MIN), OTHERWISE CONTACT SEOR
2. ALL L'S TO BE STAINLESS STEEL
3. IT IS ACCEPTABLE TO OREINT THE ANGLES SO THAT THE FLOOR ANCHORS ARE LOCATED UNDER THE UNIT (AS SHOWN IN DASHED)
4. VALUES OF L, B, AND Hcg FOR EACH ITEM ARE ACCORDING TO **B/S9.0**

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PBSP

REPLACE KITCHEN HOOD FIRE EXTINGUISHING SYSTEMS

PELICAN BAY STATE PRISON
5905 LAKE EARL DRIVE, P.O. BOX 7000
CRESCENT CITY, CA 95531

DATE: JULY 19, 2024
SHEET TITLE: **EQUIPMENT ANCHORAGE**
CDCR Job Nos.: 20-034

SHEET NUMBER
S9.1

V3

2/14/2024 2:22 PM