GENERAL INFORMATION

G000	COVER SHEET
G102	REGULATORY FLOOR PLAN

CIVIL

SITE DEVELOPMENT

SD/C100	TOPOGRAPHIC SURVEY LEGEND AND NOTES
SD/C101	TOPOGRAPHIC SURVEY
SD/C201	GRADING AND DRAINAGE PLAN

ARCHITECTURAL

SITE DEVELOPMENT

SD/A101	OVERALL SITE PLAN
SD/A102	DEMOLITION PLAN AND SITE PLAN
SD/A103	ENLARGED SITE PLANS
SD/X302	SITE DEVELOPMENT DETAILS

TYPICAL INFORMATION

X/A101	WALL ASSEMBLIES
X/A201	INTERIOR FINISH SCHEDULE
X/A401	OPENING SCHEDULES, FRAME ELEVATIONS
X/A410	METAL DOORS AND FRAMES
X/A411	DOOR AND FRAME DETAILS
X/A412	COUNTER DOOR DETAILS
X/A501	EXTERIOR DETAILS
X/A601	INTERIOR DETAILS
X/A602	INTERIOR DETAILS

BUILDING C

C/A100	DEMOLITION FLOOR AND CEILING PLANS
C/A101	FLOOR AND REFLECTED CEILING PLAN
C/A301	ROOF PLAN
C/A401	EXTERIOR ELEVATIONS
C/A501	BUILDING SECTIONS
C/A601	INTERIOR ELEVATIONS- ROOMS 100 - 102
C/A602	INTERIOR ELEVATIONS - ROOMS 107 - 113
C/A701	SIGNAGE PLAN AND SCHEDULE

BUILDING D

D/A101	FLOOR AND REFLECTED CEILING PLAN

STRUCTURAL

S101	TYPICAL PROJECT NOTES AND DETAILS
S102	TYPICAL CONCRETE NOTES AND DETAILS
S103	TYPICAL STEEL NOTES AND DETAILS
S104	TYPICAL WOOD NOTES AND DETAILS
S105	TYPICAL WOOD DETAILS
S201	FOUNDATION PLAN
S301	ROOF FRAMING PLAN
S401	SECTIONS AND ELEVATIONS
S501	FOUNDATION DETAILS
S601	DETAILS
S602	DETAILS

MECHANICAL

TYPICAL INFORMATION

X/M101	MECHANICAL SCHEDULES
X/M102	MECHANICAL DETAILS
X/M103	TITLE 24 DOCUMENTS
X/M104	TITLE 24 DOCUMENTS

BUILDING C

M/C201	DEMOLITION & NEW HVAC FLOOR PLANS
M/C301	HVAC ROOF DEMOLITION PLAN & NEW HVAC ROOF PLAN

PLUMBING

SITE DEVELOPMENT

SD/P001	PLUMBING SITE PLAN, LEGEND, AND NOTES
SD/P002	ENLARGED PLUMBING SITE PLAN

TYPICAL INFORMATION

X/P101	PLUMBING DETAILS
X/P102	PLUMBING SCHEDULES & DETAILS
X/P103	PLUMBING KITCHEN EQUIPMENT SCHEDULE & CALCULATIONS
X/P104	PLUMBING DETAILS
X/P105	PLUMBING DETAILS

BUILDING C

C/P100	PLUMBING DEMOLITION PLAN
C/P101	PLUMBING DEMOLITION REFERENCE PHOTOS
C/P102	PLUMBING DEMOLITION REFERENCE PHOTOS
C/P201	PLUMBING FLOOR PLAN
C/P201U	PLUMBING FLOOR PLAN - UNDERGROUND
C/P301	PLUMBING ROOF PLAN

BUILDING D

D/P101	PLUMBING DEMOLITION AND FLOOR PLAN

ELECTRICAL

SITE DEVELOPMENT

SD/E101	SITE ELECTRICAL PLAN

TYPICAL INFORMATION

X/E101	ELECTRICAL SYSTEMS - SYMBOLS, NOTES AND DETAILS
X/E102	LIGHTING SYSTEMS - FIXTURE SCHEDULE AND DETAILS
X/E103	POWER SYSTEMS - SINGLE LINE DIAGRAMS AND DETAILS
X/E104	POWER SYSTEMS - PANEL SCHEDULES
X/E105	LOW VOLTAGE SYSTEMS - DETAILS
X/E201	FIRE ALARM SYSTEM - SYMBOLS, NOTES AND DETAILS
X/E202	FIRE ALARM SYSTEM - SINGLE LINE DIAGRAM AND CALCULATIONS
X/E301	TITLE 24 COMPLIANCE FORMS - INDOOR LIGHTING
X/E302	TITLE 24 COMPLIANCE FORMS - INDOOR LIGHTING

BUILDING C

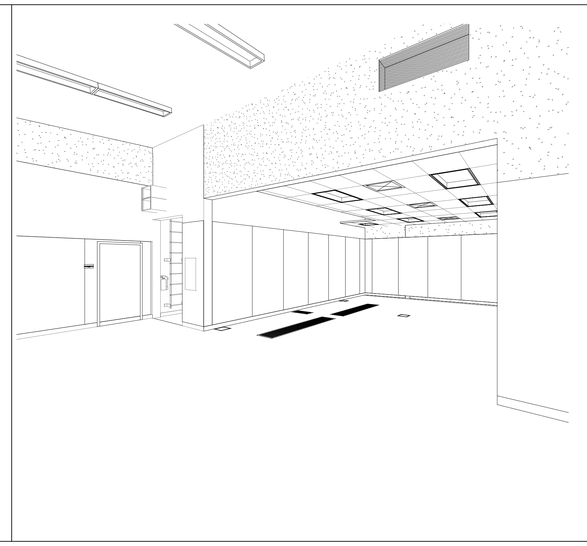
C/E101	DEMOLITION LIGHTING PLAN, LIGHTING PLAN
C/E201	DEMOLITION ELECTRICAL PLAN, POWER AND DATACOM PLAN
C/E202	ENLARGED POWER PLAN
C/E203	ROOF ELECTRICAL PLAN
C/E301	DEMOLITION FIRE ALARM PLAN, FIRE ALARM PLAN

FOOD SERVICE

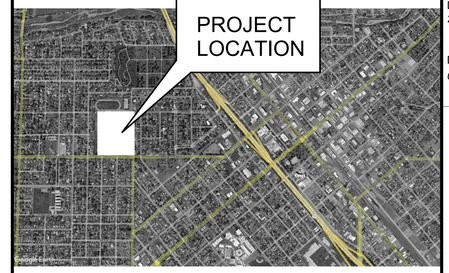
FS1.1	FOODSERVICE EQUIPMENT FLOOR PLAN
FS1.2	FOODSERVICE EQUIPMENT SCHEDULE
FS2.1	FOODSERVICE PLUMBING FLOOR PLAN
FS3.1	FOODSERVICE ELECTRICAL FLOOR PLAN
FS3.2	FOODSERVICE ELECTRICAL SCHEDULE
FS4.1	FOODSERVICE MECHANICAL FLOOR PLAN
FS5.1	FOODSERVICE EQUIPMENT EXHAUST HOOD
FS5.2	FOODSERVICE EQUIPMENT EXHAUST HOOD
FS5.3	FOODSERVICE EQUIPMENT EXHAUST HOOD
FS5.4	FOODSERVICE EQUIPMENT EXHAUST HOOD
FS5.5	FOODSERVICE EQUIPMENT EXHAUST HOOD
FS5.6	FOODSERVICE EQUIPMENT EXHAUST HOOD
FS5.7	FOODSERVICE EQUIPMENT EXHAUST HOOD
FS8.1	FOODSERVICE EQUIPMENT ANCHORAGE DETAILS
FS8.2	FOODSERVICE EQUIPMENT ANCHORAGE DETAILS
FS8.3	FOODSERVICE EQUIPMENT ANCHORAGE DETAILS
FS9.1	FOODSERVICE EQUIPMENT ELEVATIONS
FS9.2	FOODSERVICE EQUIPMENT ELEVATIONS
FS9.3	FOODSERVICE SERVING LINE DETAILS
FS9.4	FOODSERVICE SERVING LINE DETAILS
FS9.5	FOODSERVICE SERVING LINE DETAILS
FS9.6	FOODSERVICE SERVING LINE DETAILS
FS9.7	FOODSERVICE SERVING LINE DETAILS
FS9.8	FOODSERVICE SERVING LINE DETAILS

TOTAL SHEETS: 97









N14 Vicinity Map

All work shall be performed in accordance with current applicable codes and standards including, but not limited to, the following:

California Code of Regulations (CCR)
CCR-T5: Title 5-Education
CCR-T8: Title 8-Industrial Safety
CCR-T19: Title 19-Public Safety
CCR-Title 24:

Building Codes and Standards:

2022 California Building Standards Administrative Code (Part 1, Title 24, CCR)

2019 California Building Code, Volumes 1 and 2 (Part 2, Title 24, CCR)

2019 California Electrical Code (Part 3, Title 24, CCR)

2019 California Mechanical Code (Part 4, Title 24, CCR)

2019 California Plumbing Code (Part 5, Title 24, CCR)

2019 California Energy Code (Part 6, Title 24, CCR)

2019 California Elevator Safety Construction Code (Part 7, Title 24, CCR)

2019 California Fire Code, Part 9, Title 24, CCR)

2019 California Referenced Standards Code (Part 12, Title 24, CCR)

2019 California Green Building Standards Code

NFPA 13, 2016 Edition, The Installation of Automatic Sprinkler Systems

NFPA 14, 2016 Edition, Installation of Standpipe

NFPA 24, 2016 Edition, Installation of Private Fire Service Mains and their Appurtenances

NFPA 72, 2016 Edition, National Fire Alarm Code

Division of the State Architect (DSA):
SSS: Structural Safety Section
ACS: Access Compliance Section
FLS: Fire Life Safety
Interpretation of Regulation Manual

Contractor Shall Comply w/ CFC Chapter 33 - Fire Safety During Demolition & Construction.

J14 Applicable Codes

Notes:

1. The Contractor Shall Be Responsible For The Preparation and Submittal Of The Deferred Approval Items To The Division Of The State Architect (DSA) For Review and Approval Prior To The Installation. The Submittal Shall Comply With The Requirements Of Specification Section 013300: Submittals.
2. Installation of Deferred Approval items shall not be started until Contractor's drawing, specifications, and engineering calculations for the actual system(s) to be installed have been reviewed by the Architect and/or the Structural Engineer, and approved by the DSA.

Description of Deferred Item
None
.
.

G14 Deferred Approval

1. Substitutions affecting DSA related items (SSS/FLS/ACS) shall be submitted and approved by DSA prior to fabrication and installation. CAC 4-338.

D14 General Notes

Project consists of the renovation of the kitchen and serveries at the existing MPR to improve kitchen efficiency, accommodate new equipment, and improve student access.

Additional revisions to the building include a new Managers office, Dry storage, and staff restroom within the existing footprint of the building. Accessibility upgrades will be made to existing student and staff restrooms.

B14 Project Description

DSA File No.: *20-30*

DSA Application No.: *02-120517*

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120517 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

Agency Approval

THOMAS JEFFERSON M. S. KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
Madera, CA

Darden Project Number: *2123*

Date: *03/31/23*

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F (559) 323-4928

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(559) 431-0101

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F (559) 446-1765

Project Information

darden architects
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PLANNING
INTERIORS
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6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

LICENSED ARCHITECT ARSHID J. AMIN No. C26235 Exp. 10-31-23 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

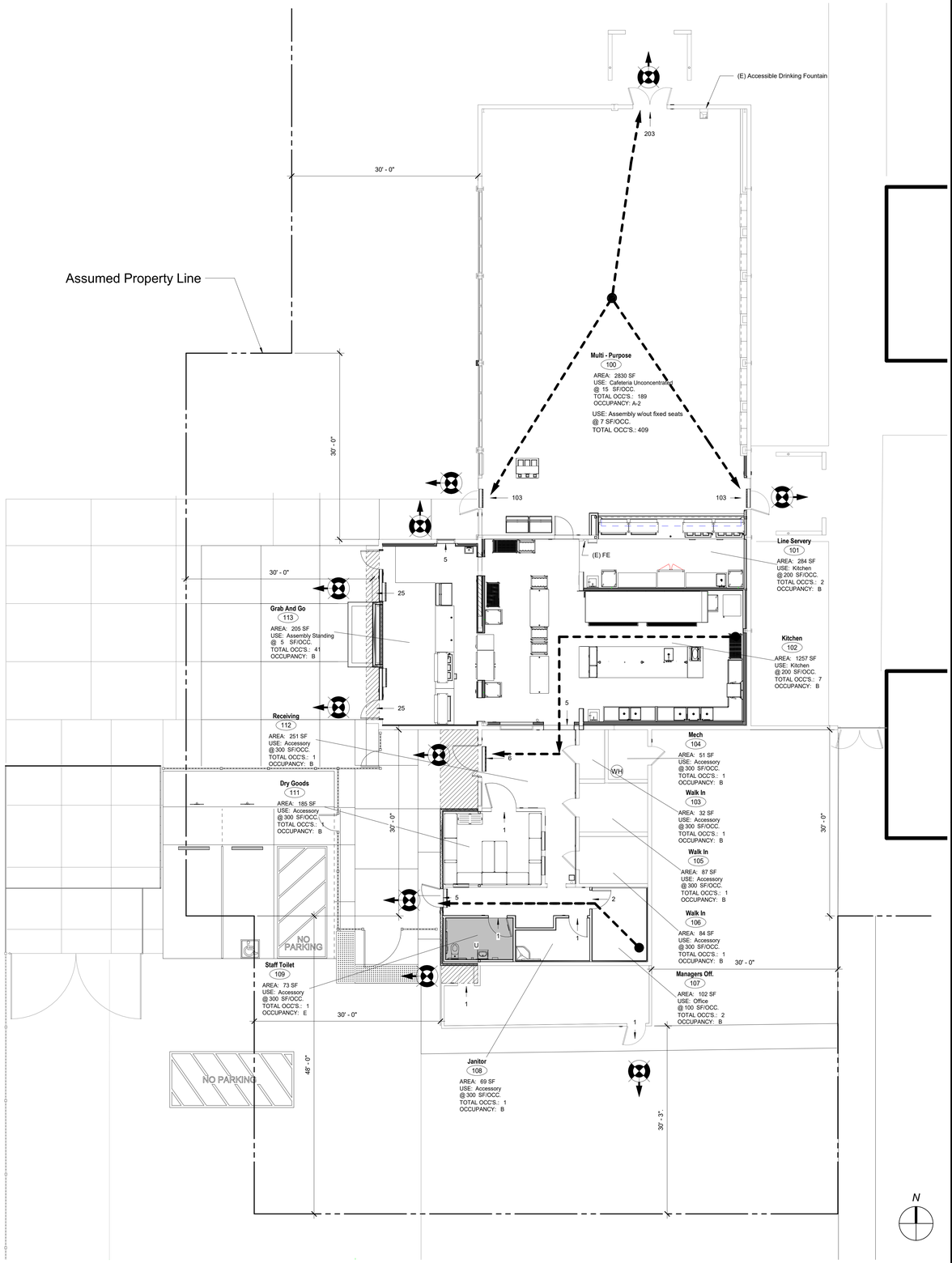
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03/31/2023

darden architects, inc.
ARCHITECTURE ▪ PLANNING ▪ INTERIORS

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DSA File No.:
20-30

DSA Application No.:
02-120517

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120517 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

Agency Approval

CORRIDORS

6' - 0" WIDTH	=	72" / 0.2	=	360 OCCUPANTS
7' - 0" WIDTH	=	84" / 0.2	=	420 OCCUPANTS
8' - 0" WIDTH	=	96" / 0.2	=	480 OCCUPANTS
9' - 0" WIDTH	=	108" / 0.2	=	540 OCCUPANTS
10' - 0" WIDTH	=	120" / 0.2	=	600 OCCUPANTS
11' - 0" WIDTH	=	132" / 0.2	=	660 OCCUPANTS
12' - 0" WIDTH	=	144" / 0.2	=	720 OCCUPANTS

STAIRWAYS

6' - 0" WIDTH	=	72" / 0.3	=	240 OCCUPANTS
7' - 0" WIDTH	=	84" / 0.3	=	280 OCCUPANTS
8' - 0" WIDTH	=	96" / 0.3	=	320 OCCUPANTS
9' - 0" WIDTH	=	108" / 0.3	=	360 OCCUPANTS
10' - 0" WIDTH	=	120" / 0.3	=	400 OCCUPANTS
11' - 0" WIDTH	=	132" / 0.3	=	440 OCCUPANTS
12' - 0" WIDTH	=	144" / 0.3	=	480 OCCUPANTS
13' - 0" WIDTH	=	156" / 0.3	=	520 OCCUPANTS
14' - 0" WIDTH	=	168" / 0.3	=	560 OCCUPANTS
15' - 0" WIDTH	=	180" / 0.3	=	600 OCCUPANTS
16' - 0" WIDTH	=	192" / 0.3	=	640 OCCUPANTS
17' - 0" WIDTH	=	204" / 0.3	=	680 OCCUPANTS
18' - 0" WIDTH	=	216" / 0.3	=	720 OCCUPANTS

DOORWAYS

SINGLE 3'-0" DOORWAY	=	32.75" / 0.2	=	163 OCCUPANTS
SINGLE 4'-0" DOORWAY	=	46.75" / 0.2	=	233 OCCUPANTS
1 PAIR 3'-0" DOORWAY	=	68.75" / 0.2	=	343 OCCUPANTS
2 PAIR 4'-0" DOORWAY	=	92.75" / 0.2	=	463 OCCUPANTS
1-1/2 PAIR 3'-0" DOORWAY	=	104.25" / 0.2	=	521 OCCUPANTS
1-1/2 PAIR 4'-0" DOORWAY	=	136.50" / 0.2	=	682 OCCUPANTS
2 PAIR 3'-0" DOORWAY	=	137.50" / 0.2	=	687 OCCUPANTS
2 PAIR 4'-0" DOORWAY	=	185.50" / 0.2	=	927 OCCUPANTS

M18 — Exit Width Schedule
No Scale

SYMBOLS

Indicates Point of Exit or Exit Discharge Direction

CPET — Indicates Common Path of Exit Travel

#-# — Indicates Exit Access See EGRESS DATA Schedule for total Travel Distance

— Indicates Exit Occupant Loading

A — Indicates Required Accessible Clearance Space

B G — Accessible Restroom Location:
B = Boys
G = Girls
M = Men
W = Women
U = Unisex

ABBREVIATIONS

DF — ACCESSIBLE DRINKING FOUNTAIN LOCATION
(-HA = High Adult)
(-LA = Low Adult)

FEC — FIRE PROTECTION SPECIALTIES, Fire Extinguisher and Cabinet. Provide Fire Rated Cabinet at Rated Walls.

(E) FE — Existing, Fire Extinguisher, Bracket mounted.

BUILDING INFORMATION

Building Id. & Use: Building C - Multi - Purpose
Occupancy Classification: Group A-2, B-2 (Nonseperated Occupancies)
Construction Type: Type V- A
Actual Building Area: 1st Floor = 6,584 SF
Overhangs= 140 SF TOTAL: 6,688

Basic Allowable Area: Per Floor = 6,000 SF
Maximum Bldg. Height = 1 Floors
Total Building = 6,688 SF

Allowable Area Increase: At+(NS x lf) 6,000 + (6000x.5) = 9000

Total Allowable Area: 9,000 SF 9,000>6,888 Building Area OK

F18 — Regulatory Compliance Floor Plan Legend
No Scale

THOMAS JEFFERSON M. S. KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
Madera, CA
Project

GENERAL INFORMATION
REGULATORY FLOOR PLAN
Drawing

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LICENSED ARCHITECT ANTONIO J. AVILA No. C26035 Exp. 10-31-25 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

	Designed By: -	Copyright 2023 Darden Architects
Scale: 1/8" = 1'-0"	Drawn By: -	
Project Number: 2123	Checked By: -	G102
Date: 03/31/2023	Reviewed By: -	

A1 — Regulatory Compliance Floor Plan
1/8" = 1'-0"

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GENERAL TOPOGRAPHIC SURVEY LEGEND:

(NOT ALL SYMBOLS SHOWN APPEAR ON THE PLANS)

AB	ABUTMENT
AC	ASPHALTIC CONCRETE
ACE	ASPHALTIC CONCRETE EDGE
AD	ASPHALTIC CONCRETE DIKE
AWT	ALL-WEATHER TRACK
BD	BRIDGE DECK
BFC	BOTTOM FACE OF CURB
BGST	STEPS
BGTR	TOP OF ROOF
BGV	BUILDING VENTS
BOD	BOTTOM OF DITCH
BR	BARRICADE
BRK	BRICK
BW	BARRIER WALL
CB	CATCH BASIN
CDA	CONCRETE DRIVE APPROACH
CE	CONCRETE EDGE
CMP	CORRUGATED METAL PIPE
CON	CONCRETE
COTH	COMMUNICATION TRENCH
CR	CROWN OF ROAD
CRQ	QUARTER CROWN
CS	CONCRETE SLAB
CULV	CULVERT
CW	CONCRETE WALL
DD	DOWN DRAIN
DFL	DITCH FLOWLINE
DWY	DRIVEWAY
ECTH	ELECTRICAL TRENCH
EDR	EDGE OF DIRT ROAD
EGR	EDGE OF GRAVEL ROAD
EOD	EDGE OF OILED DIRT
EP	EDGE OF PAVEMENT
ES	EDGE OF SHOULDER
ET	EDGE OF TRAVELED WAY
FF	FINISH FLOOR
FOTH	FIBER OPTIC TRENCH
GB	GRADE BREAK
GFL	GUTTER FLOWLINE
GRA	GRAVEL SPOT SHOT
GRAE	EDGE OF GRAVEL
GSTH	GAS TRENCH
HDR	WOOD HEADER
HW	HEAD WALL
KR	K-RAIL
LIP	LIP OF GUTTER
LSDE	DECOMPOSED GRANITE EDGE
LSDG	DECOMPOSED GRANITE
LSGC	GROUND COVER
LSGF	GOLF COURSE FAIRWAY
LSGG	GOLF COURSE GREEN
LSGT	GOLF COURSE TEE
LSSA	SAND
LSSP	SLOPE PROTECTION
LSST	GOLF COURSE SAND TRAP
NPTH	NON-POTABLE TRENCH
PA	PATIO
PGTH	PROPANE GAS TRENCH
POS	POINT ON SLOPE
RCP	REINFORCED CONCRETE
RIEL	RIPARIAN EDGE OF LAKE
RIEP	RIPARIAN EDGE OF POND
RIES	RIPARIAN EDGE OF STREAM
RIEW	RIPARIAN EDGE OF WETLAND
RIFL	RIPARIAN FLOWLINE
RIMC	RIPARIAN MISC.
RIP	RIP-RAP SLOPE PROTECTION
RK	ROCK
RW	RETAINING WALL
SB	SPEED BUMP
SDCD	STORM DRAIN CROSS DRAIN
SDFL	STORM DRAIN FLOWLINE
SDGR	STORM DRAIN GRATE
SDMG	STORM DRAIN MANHOLE W/ GRATE
SSFL	SEWER FLOWLINE
SDTH	STORM DRAIN TRENCH
SSGT	STORM DRAIN GREASE TRAP
SSST	SEWER TANK (SEPTIC)
SSTH	SEWER TRENCH
SWK	SIDEWALK
SWL	SWALE
T	TURF
TBC	TOP BACK OF CURB
TBW	TOP BACK OF WALK
TF	TOP OF FOOTING
TFC	TOP FACE OF CURB
TFW	TOP FACE OF WALK
TLTH	TELEPHONE TRENCH
TOB	TOP OF BANK
TOE	TOE OF SLOPE
TOP	TOP OF SLOPE
TROD	TRUNCATED DOMES
TVTH	TV TRENCH
TW	TOP OF WALL
UTH	UNIDENTIFIED TRENCH/SCAR LINE
VGFL	VALLEY GUTTER FLOWLINE
VGR	VALLEY GUTTER
WALBA	BARRIER WALL
WALBW	BLOCK WALL
WALCW	CONCRETE WALL
WALHW	HEAD WALL
WALRW	RETAINING WALL
WALWW	WING WALL
WCR	WHEELCHAIR RAMP
WLPD	WELL PAD
WTTH	WATER TRENCH
WW	WING WALL
(335.21)	EXISTING ELEVATION
AL	ACCENT LIGHT
AV	ALFALFA VALVE
	BACKFLOW ASSEMBLY
	BASKETBALL GOAL
BOV	BLOW-OFF VALVE
	BM=BENCHMARK; OR SBM=SITE BENCHMARK
BO	BOLLARD
CO	CLEANOUT
COPB	COMMUNICATION PULLBOX
COVA	COMMUNICATION VAULT
312.55	SURVEY CONTROL MONUMENT
DF	DRINKING FOUNTAIN
DS	DOORSTOP
DW	DRYWELL
EG	ELECTRICAL GROUND
ELC	ELECTRICAL CONDUIT
	ELECTRICAL METER
EPB	ELECTRICAL PULLBOX
	ELECTRICAL VAULT LID
ETS	GAS ELECTRONIC TESTING STATION
FDC	FIRE DEPARTMENT CONNECTION
	FIRE HYDRANT
FP	FENCE POST
FLP	FLAG POLE
GAS	GAS LINE; DIAMETER AS SHOWN
GR	GAS REGULATOR
GAV	IRRIGATION GATE VALVE
	GAS METER
GOP	GOAL POST
GP	GUY POLE
4"GR	GRATE; DIAMETER AS SHOWN
GS	GATE STOP
GSR	GAS RISER
GV	GAS VALVE
GRD	GROUNDING ROD
GUY	GUY WIRE
HB	HOSE BIBB
HR	HANDRAIL
ICB	IRRIGATION CONTROLLER
	IRRIGATION DISTRICT MANHOLE
IVA	IRRIGATION REMOTE CONTROL VALVE
ISB	IRRIGATION SPLICE BOX
IHB	IN-GROUND HOSE BIBB
IP	IRON PIPE
JP	JOINT UTILITY POLE
LP	LIGHT POLE
MB	MAIL BOX
	MANHOLE
MV	MANUAL IRRIGATION VALVE
PB	PULLBOX
PIV	POST INDICATOR VALVE
	UTILITY STUB
	PARKING METER
4"POST	POST; DIAMETER AS SHOWN
PP	POWER POLE
6"PVC	PVC PIPE; DIAMETER AS SHOWN
QC	QUICK COUPLER VALVE
RD	ROOF DRAIN
RDU	ROOF DRAIN UNDERGROUND
RS	ROOF SUPPORT
	STADIUM LIGHT POLE
	STORM DRAIN MANHOLE
	SIGN
PPB	SIGNAL LIGHT PUSH BUTTON
	STREET LIGHT
4"SLE	PIPE SLEEVE; DIAMETER AS SHOWN
	SLOPE
SLPB	STREET LIGHT PULLBOX
4"SLV	PIPE SLEEVE; DIAMETER AS SHOWN
	SEWER MANHOLE
SP	SERVICE POLE
SPB	SIGNAL PULLBOX
	SPRINKLER
4"SPO	STEEL POST; DIAMETER AS SHOWN
12"SS	SAND SEPARATOR; SIZE AS NOTED
24"STP	STAND PIPE; DIAMETER AS NOTED
12"STUMP	TREE STUMP; DIAMETER AS SHOWN
MW	SURVEY MONUMENT WELL
4"TEL	TELEPHONE; DIAMETER AS SHOWN
	TELEPHONE MANHOLE
TN	TENNIS NET POLE
TP	TELEPHONE POLE
TPB	TELEPHONE PULLBOX
TVPB	TELEVISION PULLBOX
	TREE; SPREAD SHOWN GRAPHICALLY AND TRUNK DIAMETER AS SHOWN
	PALM TREE; SPREAD SHOWN GRAPHICALLY
TSB	TELEPHONE SPLICE BOX
	TRAFFIC SIGNAL POLE
TSPB	TRAFFIC SIGNAL PULLBOX
UP	UTILITY POLE
VB	VACUUM BREAKER
VN	VOLLEYBALL NET POST
2"VP	VENT PIPE; DIAMETER AS SHOWN
WELL	WELL
	WATER METER
WP	WELL PUMP
6"WPO	CIRCULAR WOOD POST; DIAMETER AS SHOWN
4"SQWPO	SQUARE WOOD POST; SIZE AS SHOWN
4"W	WATER LINE; DIAMETER AS SHOWN
WV	WATER VALVE
	ASPHALT PAVEMENT
	CONCRETE BLOCK WALL
	BUILDING
	CONCRETE
	DETECTABLE WARNINGS
	DG OR GRAVEL
	CHAIN LINK FENCE
	CHAIN LINK ROLL GATE
	EDGE OF ASPHALT PAVEMENT
	WOOD FENCE
	DIRECTION OF FLOW
E	UNDERGROUND ELECTRIC
G 6"	GAS LINE; SIZE AS NOTED
OT	OVERHEAD TELEPHONE
SD 18"	STORM DRAIN LINE; SIZE AS NOTED
S 12"	SEWER LINE; SIZE AS NOTED
T	UNDERGROUND TELEPHONE
W 8"	WATER LINE; SIZE AS NOTED
AG 12"	AGRICULTURAL IRRIGATION LINE; SIZE AS NOTED
A 1"	AIR LINE; SIZE AS NOTED
C	COMMUNICATION LINE
350'	MAJOR GRADE CONTOUR LINE
345'	MINOR GRADE CONTOUR LINE
CW 2"	CHILLED WATER LINE; SIZE AS NOTED
CWR 2"	CHILLED WATER RETURN LINE; SIZE AS NOTED
CWS 2"	CHILLED WATER SUPPLY LINE; SIZE AS NOTED
	LIMIT OF DIRT
	LIMIT OF TURF
DL 1"	DRAIN LINE; SIZE AS NOTED
EMS	EMERGENCY MANAGEMENT SYSTEM
FA	FIRE ALARM LINE
F 8"	FIRE LINE; SIZE AS NOTED
FO	FIBER OPTIC LINE
	DRAIN TUBE
HW 2"	HOT WATER LINE; SIZE AS NOTED
HWR 2"	HOT WATER RETURN LINE; SIZE AS NOTED
HWS 2"	HOT WATER SUPPLY LINE; SIZE AS NOTED
HYD	HYDRAULIC LINE
ID 18"	IRRIGATION DISTRICT; SIZE AS NOTED
	IRON FENCE
IRR 2"	IRRIGATION MAIN LINE; SIZE AS NOTED
L 1"	IRRIGATION LATERAL LINE; SIZE AS NOTED
ITS	INTELLIGENT TRAFFIC SYSTEM
JT	JOINTLY TRENCHED UTILITIES
OC	OVERHEAD COMMUNICATIONS LINE
OE	OVERHEAD ELECTRIC LINE
OEC	OVERHEAD ELECTRIC AND COMMUNICATION LINE
OET	OVERHEAD ELECTRIC AND TELEPHONE LINE
OETV	OVERHEAD ELECTRIC AND TELEVISION LINE
OETVT	OVERHEAD ELECTRIC, TELEVISION AND TELEPHONE LINE
OTS	OVERHEAD TRAFFIC SIGNAL LINE
OTV	OVERHEAD TELEVISION LINE
OU	OVERHEAD UTILITY LINE
P 6"	PETROLEUM LINE; SIZE AS NOTED
RW 2"	RECYCLED WATER IRRIGATION LINE; SIZE AS NOTED
S&SD 6"	SEWER AND STORM DRAIN LINE; SIZE AS NOTED
SFM 6"	SEWER FORCE MAIN; SIZE AS NOTED
ST 2"	STEAM LINE; SIZE AS NOTED
TFO	TRAFFIC FIBER OPTIC LINE
TS	TRAFFIC SIGNAL LINE
TV	TELEVISION LINE
UNK	UNKNOWN UTILITY LINE
	WIRE FENCE
	PROPERTY LINE
	CITY LIMIT
	EASEMENT 1
	EASEMENT 2
	RIGHT-OF-WAY LINE
	RIGHT-OF-WAY CENTER LINE
	SETBACK LINE

DSA File No.:
20-30

DSA Application No.:
02-120517

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120517 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

Agency Approval

SURVEY NOTES:

1. *THIS TOPOGRAPHIC SURVEY LOCATES SPECIFIC PHYSICAL FEATURES OF THE SITE AND THEIR ELEVATION AS DETERMINED NECESSARY BY THE PROJECT ENGINEER. IT IS NOT A COMPLETE TOPOGRAPHIC SURVEY OF THE SITE. THE INFORMATION SHOWN REFLECTS THE DATA OBTAINED BY FIELD SURVEY CONDUCTED ON JANUARY 6, 2023.*
2. *UTILITY INFORMATION SHOWN HEREON IS BASED ON RECORD INFORMATION SUPPLIED TO THE ENGINEER BY UTILITY COMPANIES, PUBLIC AGENCIES AND THE PROPERTY OWNER, TOGETHER WITH OBSERVATION OF VISIBLE EVIDENCE BY A FIELD SURVEY. THE ENGINEER CAN MAKE NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF THE UNDERGROUND UTILITY FACILITIES SHOWN. PRIOR TO ANY SITE EXCAVATIONS, THE CONTRACTOR SHALL CONTACT THE OWNER AND UNDERGROUND SERVICE ALERT (USA) AND REQUEST THAT THEY IDENTIFY THE LOCATION OF ALL UNDERGROUND UTILITIES AT THE SITE.*

SITE BENCHMARK:

CHISELED "X" IN CONCRETE CURB RETURN APPROXIMATELY 273' SOUTH OF LAUNDRY BUILDING.

ELEV.= 264.48 NAVD88 DATUM

General Notes

Blair, Church & Flynn
CONSULTING ENGINEERS

Blair, Church & Flynn Consulting Engineers
451 Clovis Avenue, Suite 200
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1500

REGISTERED PROFESSIONAL ENGINEER
LANE R. BRADLEY
No. 47033
Civil
STATE OF CALIFORNIA
4/21/2023
Date Signed

Consultant

THOMAS JEFFERSON M.S. KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
Madera, CA

Project

SITE DEVELOPMENT
TOPGRAPHIC SURVEY LEGEND AND NOTES

Drawing

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6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

LICENSED ARCHITECT
ANTONIO J. AVILA
No. C26235
Exp. 10-31-24
STATE OF CALIFORNIA

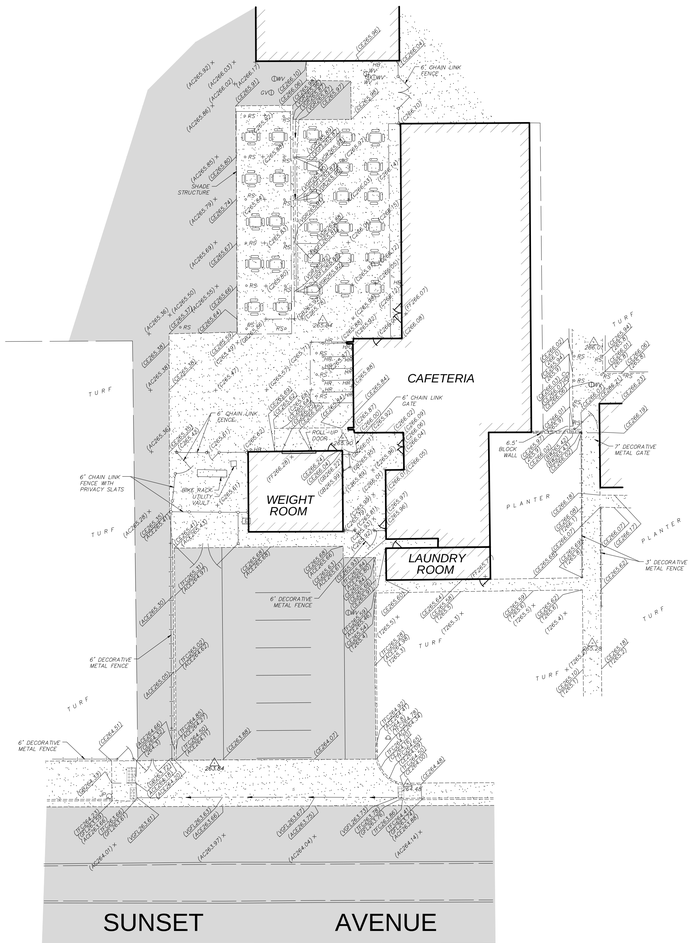
Architect

No.	Revision/Submission	Date

Revision

	Designed By: BAA	Copyright 2023 Darden Architects
Scale: AS SHOWN	Drawn By: MJA	SD/C100
Project Number: 2123	Checked By: LRB	
Date: 03/31/2023	Reviewed By: JDB	

Drawing: P:\2123-0123\Site\ProductionDrawings\223123_ts01.dwg; C100 — BCF.ctb
Plot by: bahamez Mar 02, 2023 — 2:46pm



CAUTION

WATCH FOR OVERHEAD POWER LINES

SCALE: N 1"=20'

0 5 20 40

SCALE IN FEET

DSA File No.:
20-30

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Tel (559) 326-1400
Fax (559) 326-1500

REGISTERED PROFESSIONAL ENGINEER JANE R. BAILEY No. 57033 Civil STATE OF CALIFORNIA

Date Signed: 4/21/2023

Consultant

THOMAS JEFFERSON M.S. KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
Madera, CA

Project

SITE DEVELOPMENT
TOPOGRAPHIC SURVEY

Drawing

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LICENSED ARCHITECT ANTONIO J. AVILA No. C26235 Exp. 10-31-2024 STATE OF CALIFORNIA

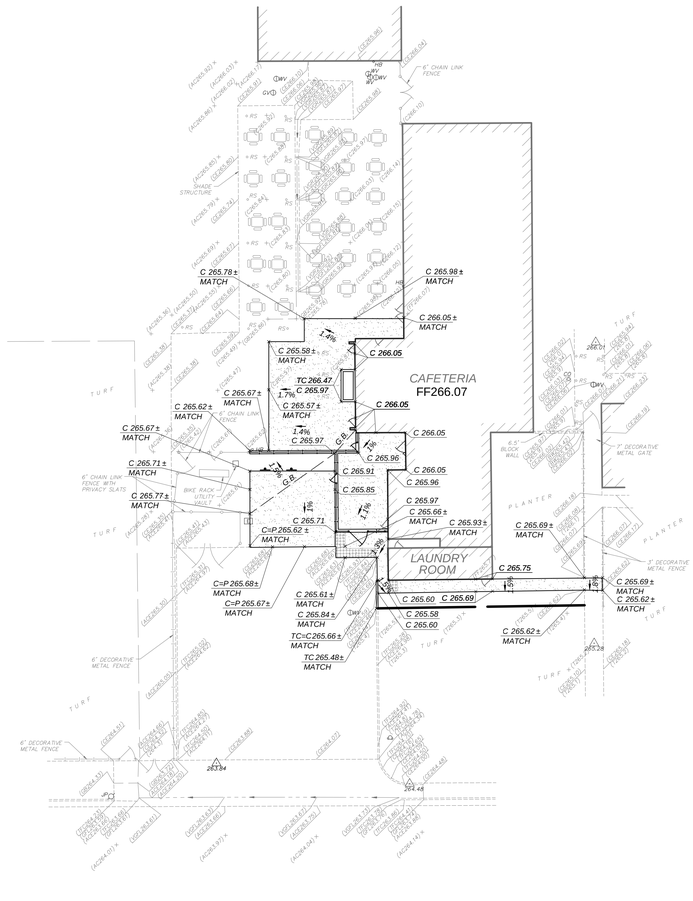
Architect

No.	Revision/Submission	Date

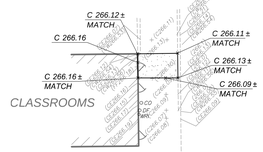
Revision

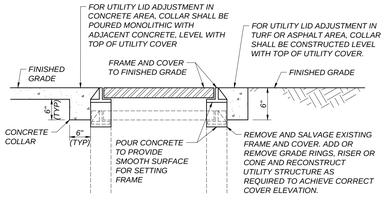
	Designed By: BAA	Copyright 2023 Darden Architects
Scale: AS SHOWN	Drawn By: MJA	SD/C101
Project Number: 2123	Checked By: LRB	
Date: 03/31/2023	Reviewed By: JDB	

Drawing: P:\2123-0123\Site\ProductionDrawings\223123_ts01.dwg, C101 — BCF.ctb
Plot by: balvarez Mar 02, 2023 — 2:46pm



SUNSET AVENUE





A SD/C201 ADJUST UTILITY LID

NOT TO SCALE

CAUTION

WATCH FOR OVERHEAD POWER LINES

SCALE: N 1"=20'

0 5 20 40

SCALE IN FEET

811 Know what's below. Call before you dig.

DSA File No.: 20-30

DSA Application No.: 02-120517

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DIV. OF THE STATE ARCHITECT
APP: 02-120517 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

Agency Approval

GRADING AND DRAINAGE LEGEND:

C	CONCRETE
FF	FINISHED FLOOR
P	PAVEMENT
TC	TOP OF CURB
(344.9)	EXISTING ELEVATION
328.78	NEW FINISHED GRADE
	DIRECTION OF SURFACE DRAINAGE
G.B.	GRADE BREAK
	LIMITS OF GRADING

GENERAL GRADING AND DRAINAGE NOTES:

THE REQUIREMENTS AND INFORMATION SET OUT BELOW ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT ENCOMPASS ALL PROJECT REQUIREMENTS DESCRIBED BY THE PROJECT PLANS AND SPECIFICATIONS AND/OR APPLICABLE LAWS, REGULATIONS AND/OR BUILDING CODES.

1. *CONSTRUCTION OF ALL PROJECT SITE IMPROVEMENTS SUBJECT TO ADA ACCESS COMPLIANCE, INCLUDING ACCESSIBLE PATH OF TRAVEL, CURB RETURNS, PARKING STALL(S) AND UNLOADING AREAS, BARRIER FREE AMENITIES AND/OR OTHER APPLICABLE SITE IMPROVEMENTS SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT, CALIFORNIA TITLE 24, THE CALIFORNIA BUILDING CODE, CURRENT EDITION(S).*
2. *CONTRACTOR SHALL FIELD VERIFY ALL GRADES AND SLOPES PRIOR TO THE PLACEMENT OF CONCRETE AND/OR PAVEMENT FOR CONFORMANCE WITH ADA ACCESS COMPLIANCE REQUIREMENTS. EXAMPLES OF MINIMUM AND MAXIMUM LIMITS RELATED TO ADA ACCESS COMPLIANCE INCLUDE, BUT ARE NOT LIMITED TO:*
   - *a) ACCESSIBLE PATH OF TRAVEL CROSS-SLOPE SHALL NOT EXCEED 2%*
   - *b) ACCESSIBLE PATH OF TRAVEL LONGITUDINAL SLOPES SHALL NOT EXCEED 5%*
   - *c) RAMP LONGITUDINAL SLOPES SHALL NOT EXCEED 8.33%*
   - *d) ACCESSIBLE WALKS SHALL NOT HAVE LESS THAN 48 INCHES IN UNOBSTRUCTED WIDTH*
   - *e) ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION*
   - *f) LANDINGS AT THE TOP AND BOTTOM OF ACCESSIBLE RAMPS SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION*
   - *g) GUTTERS AND ROAD SURFACES DIRECTLY ADJACENT TO AND WITHIN 2 FEET OF A CURB RAMP SHALL HAVE A COUNTER SLOPE NOT TO EXCEED 5%*
3. *CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER OF RECORD, IDENTIFIED BY THE PROFESSIONAL ENGINEERING SEAL AND SIGNATURE ON THESE PLANS, OF ANY SITE CONDITION(S) AND/OR DESIGN INFORMATION THAT PREVENTS THE CONTRACTOR FROM COMPLYING WITH THE LAWS, REGULATIONS AND/OR BUILDING CODES GOVERNING ADA ACCESS COMPLIANCE.*
4. *GROUND SLOPES AWAY FROM BUILDING PADS IN LANDSCAPED OR DIRT AREAS SHALL BE NO LESS THAN 5% FOR AT LEAST TEN (10) FEET, OR AS OTHERWISE NOTED ON THE PLANS.*
5. *DRAINAGE SHALL NOT BE ALLOWED ONTO ADJACENT PROPERTY.*
6. *ALL FILL MATERIAL USED TO SUPPORT THE FOUNDATIONS OF ANY BUILDING OR STRUCTURE SHALL BE PLACED UNDER THE DIRECTION OF A LICENSED GEOTECHNICAL ENGINEER, AND IN COMPLIANCE WITH THE PROJECT SPECIFICATIONS. A SOILS COMPACTION REPORT SHALL BE SUBMITTED TO THE ENGINEER OF RECORD AS REQUIRED BY THE PROJECT SPECIFICATIONS.*
7. *THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AS REQUIRED BY THE PROJECT SPECIFICATIONS, AND BY GOVERNING PUBLIC AGENCIES.*
8. *AS A FIRST ORDER OF WORK, THE CONTRACTOR SHALL POT HOLE THE EXISTING UTILITY LINES AT THE POINT OF CONNECTION TO VERIFY THE LOCATION, SIZE, PIPE MATERIAL AND ELEVATION SO THAT THE ENGINEER CAN MAKE ELEVATION AND/OR ALIGNMENT ADJUSTMENTS IF NECESSARY. SHOULD POT HOLING DISCOVER ANY DISCREPANCIES, CONTACT THE ENGINEER AND OBTAIN WRITTEN DIRECTION BEFORE PROCEEDING.*
9. *ADJUST UTILITY LIDS WITHIN NEW CONSTRUCTION AREA TO FINISHED GRADE PER DETAIL [A/SD/C201]. REPLACE ALL BROKEN LIDS WITH NEW. PROVIDE TRAFFIC RATED LIDS WITHIN VEHICLE LOADING AREAS.*
10. *MINIMUM SLOPE ON IMPERVIOUS SURFACES PERPENDICULAR TO ADJACENT STRUCTURE(S), WITHIN ADA PATH, SHALL BE 1% MINIMUM AND 2% MAXIMUM. WHERE DOOR AND GATE LANDINGS OCCUR THE CROSS SLOPE SHALL BE 2% MAXIMUM IN ALL DIRECTIONS*

General Notes

Blair, Church & Flynn CONSULTING ENGINEERS

Blair, Church & Flynn
Consulting Engineers
451 Clovis Avenue,
Suite 200
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1500

REGISTERED PROFESSIONAL ENGINEER LANE R. BLAIR No. 47033 CIVIL STATE OF CALIFORNIA

4/21/2023 Date Signed

Consultant

THOMAS JEFFERSON M.S. KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
Madera, CA

Project

SITE DEVELOPMENT
GRADING AND DRAINAGE PLAN

Drawing

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LICENSED ARCHITECT ANTONIO J. AVILA No. C40235 Reg. 10-31-2024 STATE OF CALIFORNIA

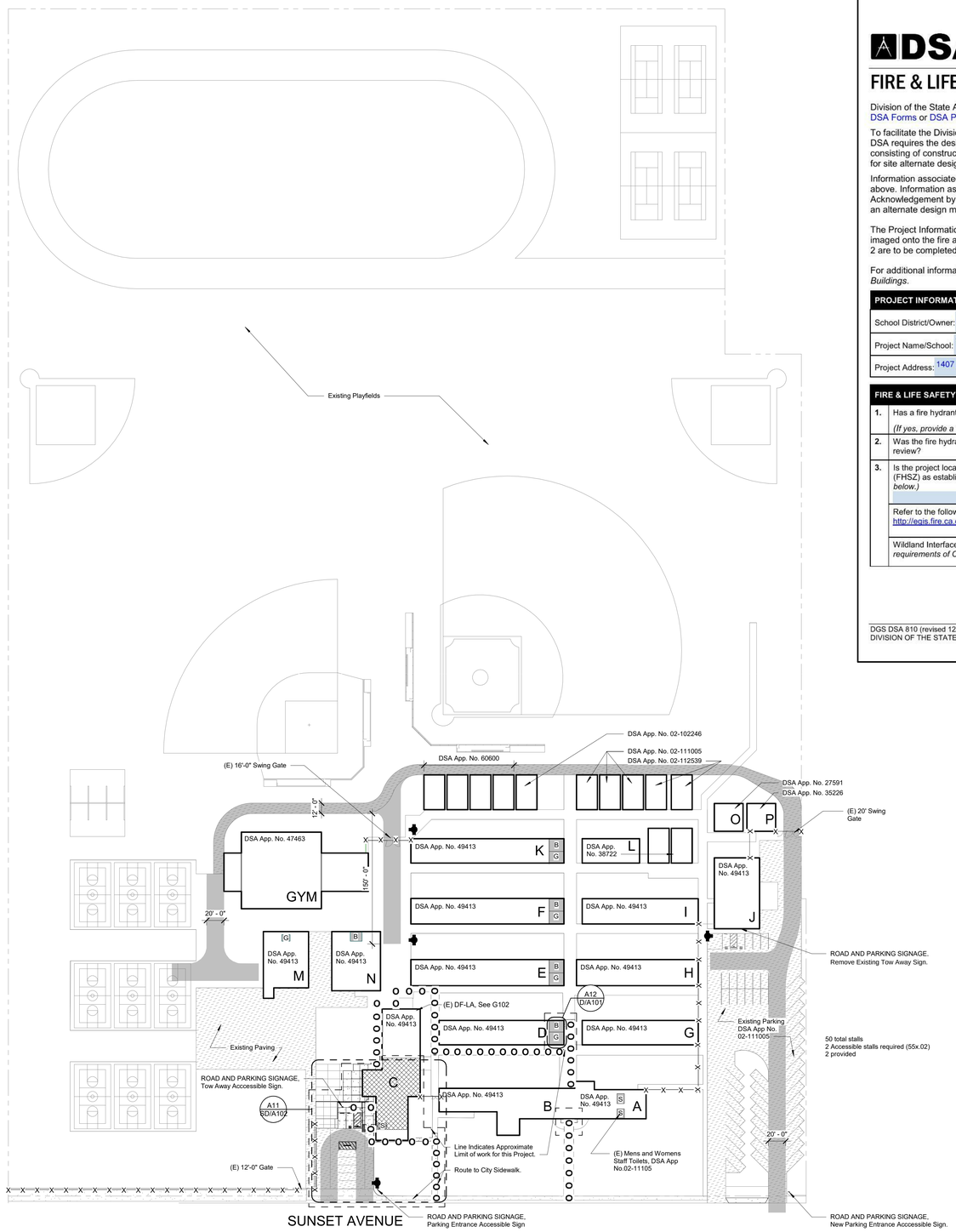
Architect

No.	Revision/Submission	Date

Revision

	Designed By: BAA	Copyright 2023 Darden Architects
Scale: AS SHOWN	Drawn By: MJA	SD/C201
Project Number: 2123	Checked By: LRB	
Date: 03/31/2023	Reviewed By: JDB	

Drawing: P:\2123-0123\Site\Production Drawings\2123123_grd1.dwg; C201 — BCF.ctb
Plot by: balvarez Mar 02, 2023 - 2:46pm



N

DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages.

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

The Project Information and Fire & Life Safety Information sections are to be completed for all projects and imaged onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy *PL 09-01: Fire Flow for Buildings*.

PROJECT INFORMATION	
School District/Owner:	Madera Unified School District
Project Name/School:	Thomas Jefferson Middle School Kitchen Remodel
Project Address:	1407 Sunset Ave, Madera CA, 93637

FIRE & LIFE SAFETY INFORMATION				
1.	Has a fire hydrant flow test been performed within the past 12 months? *(If yes, provide a copy of the test data.)*	Yes ☐		No ☑
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☐		No ☑
3.	Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? *(If yes, indicate FHSZ classification below.)*	Yes ☐		No ☑
	Refer to the following website for FHSZ locations: http://egis.fire.ca.gov/FHSZ/	Moderate ☐	High ☐	Very High ☐
	Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)*			WIFA ☐

Statement of General Conformance

FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS,
INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS

(Application No. 02-120517 **File No.** 20-30**)**

☒ The drawings or sheets listed on the cover or index sheet
☐ This drawing, page of specifications/calculations

have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. It has been examined by me for:

1) design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and
2) coordination with my plans and specifications and is acceptable for incorporation into the construction of this project.

The Statement of General Conformance "shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344" of Title 24, Part 1. *(Title 24, Part 1, Section 4-317 (b))*

I certify that: ☒ All drawings or sheets listed on the cover or index sheet
☐ This drawing or page

☐ is/are in general conformance and ☐ have been coordinated

Signature	Date	Signature	Date
	04/20/23		
Architect or Engineer designated to be in general responsible charge		Architect or Engineer delegated responsibility for this portion of the work.	
Print Name: Antonio Avila		Print Name:	
License Number: C-26235	Expiration Date: 10/31/23	License Number	Expiration Date

DSA File No.: *20-30*

DSA Application No.: *02-120517*

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DIV. OF THE STATE ARCHITECT
APP: 02-120517 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

Agency Approval

SYMBOLS

- Property Line
- Frontage Line
- Limits of Construction (Project Area)
- Covered Area
- Existing
- Accessible Path of Travel
- Fire Truck Access Lane
- FH — PLUMBING, Fire Hydrant (FH)
- FDC — PLUMBING, Fire Department Connection (FDC) (Siamese)
- PIV — PLUMBING, Post Indicator Valve (PIV),
- BUILDING OUTLINE
- Accessible Restroom Location: B = Boys, G = Girls, M = Men, W = Women, U = Unisex, S = Staff

ABBREVIATIONS

DF ACCESSABLE DRINKING FOUNTAIN LOCATION (-HA = High Adult) (-LA = Low Adult)

NOTES

1. Site Gates, Site Ramps, and Site Stair locations in the "Path of Travel" are indicated on Drawing OVERALL SITE PLAN
2. The Path of Travel slopes shall not exceed a running slope of 1:20 (5%) The Path of Travel slopes shall not exceed a Cross Slope of 1:50 (2%). The Path of Travel shall not have overhead obstructions within 80" above the walking surface or obstructions protruding more than 4" between 27" and 80" above the walking surface. All Walks Shall Slope to drain.
3. "Accessible Path of travel as indicated on plan is a barrier-free access route without abrupt level changes exceeding ½" if beveled at 1:2 maximum slope or vertical level changes not exceeding ¼" maximum and at least 48" in width. Surface is stable, firm, and slip-resistant. Cross-slope shall not be steeper than 1:48 and slope in the direction of travel shall not be steeper than 1:20. Accessible path of travel shall be maintained free of overhanging obstructions to 80" minimum and free of objects protruding more than 4" from the wall, above 27" and less than 80" above the floor. Architect shall verify that there are no barriers in the path of travel."
4. All new concrete surface within the "Path of Travel" shall have a non-slip medium broom finish as called for in Specification Section CAST-IN-PLACE CONCRETE. A heavy broom finish shall be used on all slopes greater than 6%.
5. "Design Professional in General Responsible Charge Statement: The POT identified in these construction documents meets the requirements of the current applicable California Building Code (CBC) accessibility provisions for path of travel requirements for alterations, additions and structural repairs. As part of the design of this project, the POT was examined and any elements, components or portions of the POT that were determined to be non-compliant with the CBC have been identified and the corrective work necessary to bring them into compliance has been included within the scope of this project's work through details, drawings and specifications incorporated into these construction documents. Any noncompliant elements, components or portions of the POT that will not be corrected by this project based on valuation threshold limitations or a finding of unreasonable hardship are indicated in these construction documents.
6. During construction, if POT items within the scope of the project represented as CBC compliant are found to be nonconforming beyond reasonable construction tolerances, the items shall be brought into compliance with the CBC as a part of this project by means of a construction change document."

NOTES

1) CAST-IN-PLACE CONCRETE, All Concrete Walk Joints Shall Be Expansion Joints unless otherwise noted. Provide Expansion Joints where walk abuts other site elements.
2) PLUMBING, See Plumbing Drawings
3) ELECTRICAL, See Electrical Drawings

F18 — Site Plan Legend
No Scale

THOMAS JEFFERSON M. S. KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
Madera, CA
Project

SITE DEVELOPMENT
OVERALL SITE PLAN
Drawing

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LICENSED ARCHITECT ANTONIO J. AVILA No. C-26235 Exp. 10-31-23 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

Designed By: -
Drawn By: -
Checked By: -
Reviewed By: -

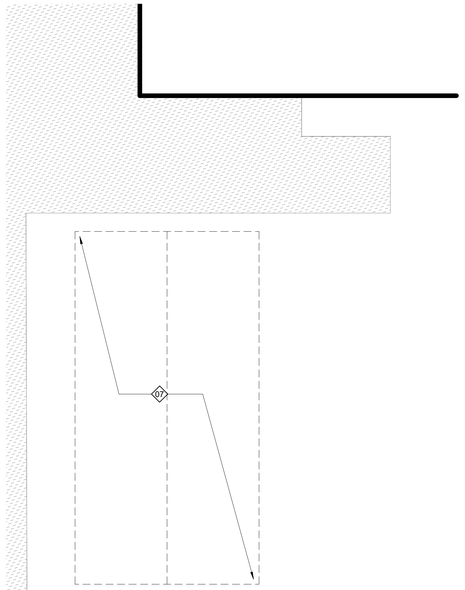
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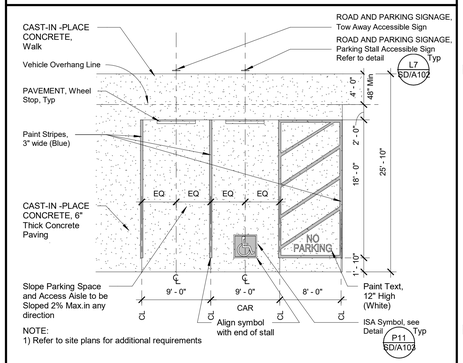
Scale: As indicated
Project Number: 2123
Date: 03/31/2023

SD/A101

A1 — Site Plan
1" = 60'-0"

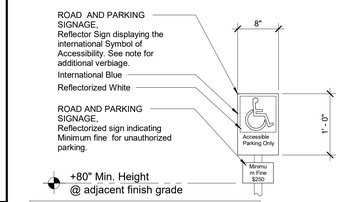
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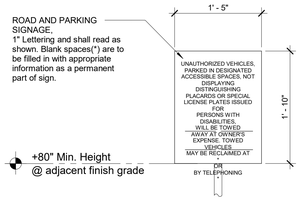


L4 — PAVEMENT, Accessible Parking Stalls, Flush Transition

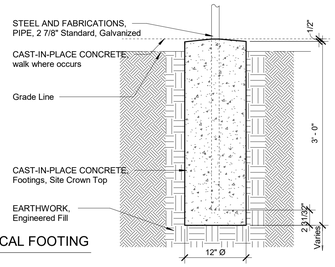
1/8" = 1'-0"



PARKING STALL ACCESSIBLE SIGN



PARKING ENTRANCE ACCESSIBLE SIGN



TYPICAL FOOTING

L7 — ROAD AND PARKING SIGNAGE, Accessible Parking & Entrance Sign

1" = 1'-0"

SYMBOLS

- CAST-IN-PLACE CONCRETE, 4" Concrete Walk over 6" 90% Compacted Fill.
- Building Outline
- Property Line
- Limits of Construction (Project Area)
- Staging Fence (Project Area)
- Covered Area
- Existing
- Slope (DN) — General Direction of Slope
- CAST-IN-PLACE CONCRETE, Control Joint
- CAST-IN-PLACE CONCRETE, Expansion Joint

ABBREVIATIONS

(E)	Existing	FF	Finish Floor	PL	Planter
C	Concrete	FG	Finish Grade	TB	Top of Bench
CJ	Control Joint	FL	Flow Line	TC	Top of Curb
EJ	Expansion Joint, 1/2"	FS	Floor Sink	TG	Top of Grate
FD	Floor Drain	GB	Grade Break	TF	Top of Fence
FDC	Fire Dept Connection	RG	Rough Grade	TL	Top of Lid
		MH	Manhole	TW	Top of Wall
		MS	Mow Strip	Typ.	Typical
		OC	On Center	UNO	Unless Noted Otherwise
		P	Pavement		
		PIV	Post Indicator Valve		

NOTES

1) CAST-IN-PLACE CONCRETE, All Concrete Walk Joints Shall Be Expansion Joints unless otherwise noted. Provide Expansion Joints where walk abuts other site elements.
2) ELECTRICAL, See Electrical Drawings
3) LANDSCAPING, See Landscape and Irrigation Drawings
4) Refer to CIVIL for Vertical Controls and Grading
5) CHAIN LINK FENCE, Refer to A7 SD/X302 Typ, A11 SD/X302 Typ, E11 SD/X302 Typ
6) ORNAMENTAL METAL, Refer to J7 SD/X302 Typ

L14 — Site Plan Legend

No Scale

DSA File No.: *20-30*

DSA Application No.: *02-120517*

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DIV. OF THE STATE ARCHITECT
APP: 02-120517 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

Agency Approval

SYMBOLS

- SELECTIVE DEMOLITION, Existing Item and / or Area to be Removed and / or Relocated. (See Demolition Notes)
- SELECTIVE DEMOLITION, Sawcut, Remove and Dispose of Existing Concrete Paving (See Demolition Notes)
- Existing Asphalt Concrete Paving
- Existing Chain Link Fence
- Demolition Note Symbol
- Building Designation
- Existing Building

DEMOLITION NOTES

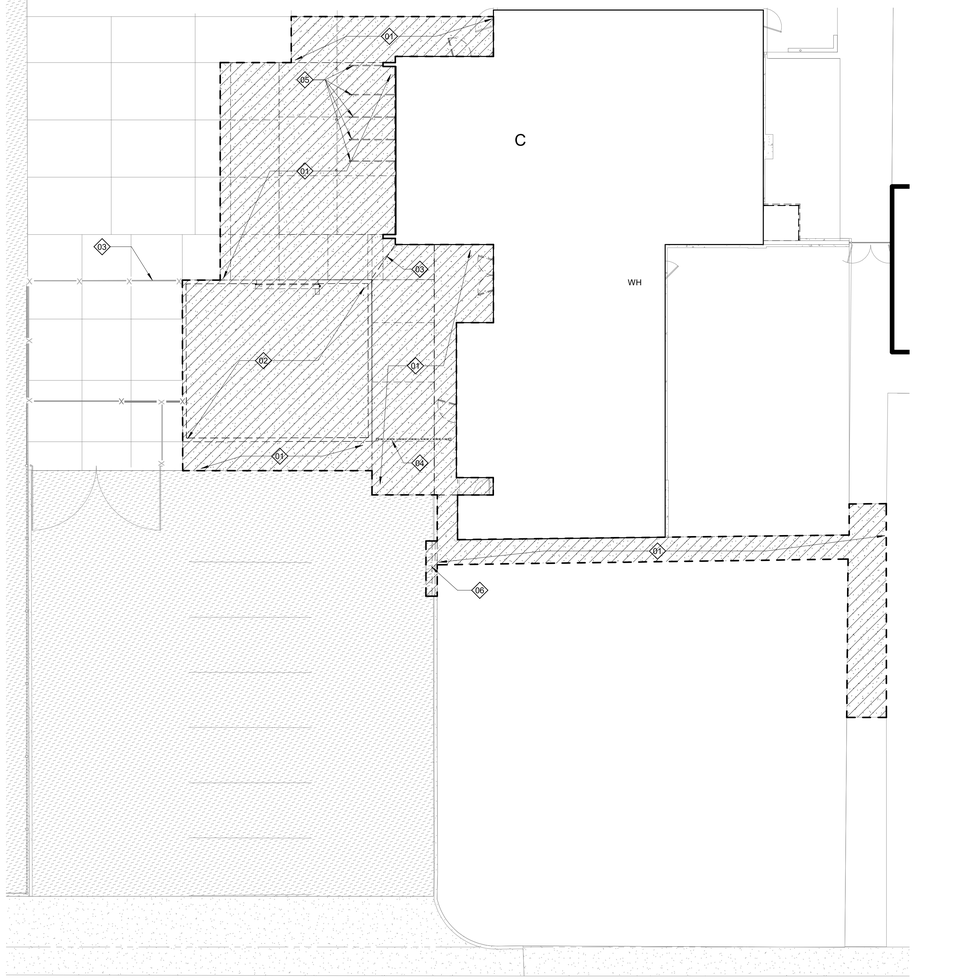
- 01 SELECTIVE DEMOLITION: Remove and Dispose of Existing Concrete slab, to existing joints in slab.
- 02 SELECTIVE DEMOLITION: Remove Existing building and slab. Disconnect and cap utilities.
- 03 SELECTIVE DEMOLITION: Remove and Dispose of Existing Chain Link Fence
- 04 SELECTIVE DEMOLITION: Remove and Dispose of Existing Fence and Gate
- 05 SELECTIVE DEMOLITION: Remove and Dispose of Existing Pipe Guardrail.
- 06 SELECTIVE DEMOLITION: Remove portion of Existing Concrete Curb. Patchback Asphalt as needed around removed curb.
- 07 SELECTIVE DEMOLITION: Remove and dispose of Existing SHade Structure.

GENERAL NOTES

1. Refer to Civil Drawings to Verify the Extent of the Demolition Required in Preparing for the Site development Scope of Work
2. Demolition to be in Compliance with the California Fire Code, Chapter 14 - Fire Safety During Construction and Demolition
3. Remove existing irrigation lines, heads and valves as required for new construction. The Contractor is responsible for field verification of the existing irrigation system within the new construction area and in providing all of what is required to amend and adjust the sprinkler system due to new improvements to provide a complete and operational system. Provide new sprinkler heads as required same as removed. The irrigation sytem shall remain in operation during construction
4. Refer to Topographic and Site Utility Surveys for Additional Information.
5. No demolition shall begin until plans including the demolition work have been approved by DSA.

J18 — Demolition Partial Site Plan Legend

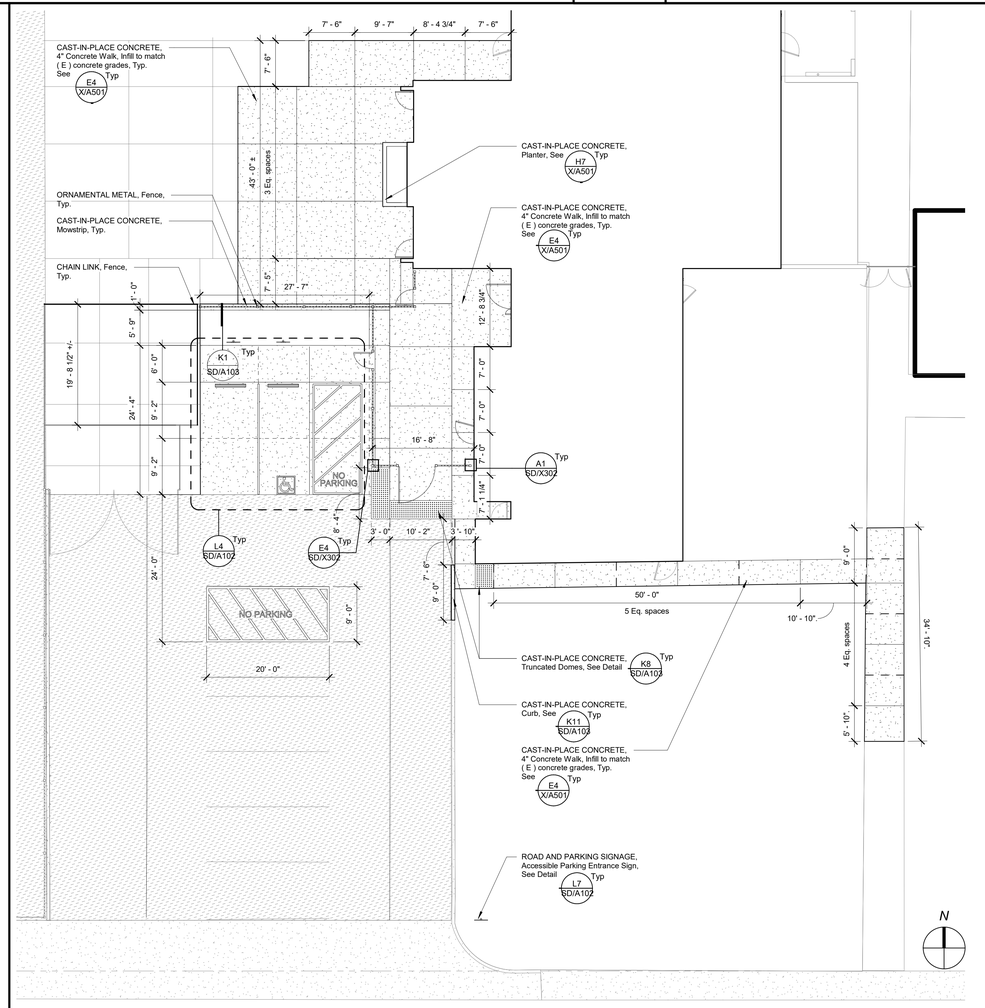
No Scale



A1 — Partial Demolition Site Plan

1" = 10'-0"

See J18 for Symbols, Abbreviations, and Notes.



A11 — Partial Site Plan

1" = 10'-0"

See L14 for Symbols, Abbreviations, and Notes.

Consultant

THOMAS JEFFERSON M. S. KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
Madera, CA

Project

SITE DEVELOPMENT
DEMOLITION PLAN AND SITE PLAN

Drawing

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LICENSED ARCHITECT ANTONIO J. AVILA No. C26235 Exp. 10-31-24 STATE OF CALIFORNIA

Architect

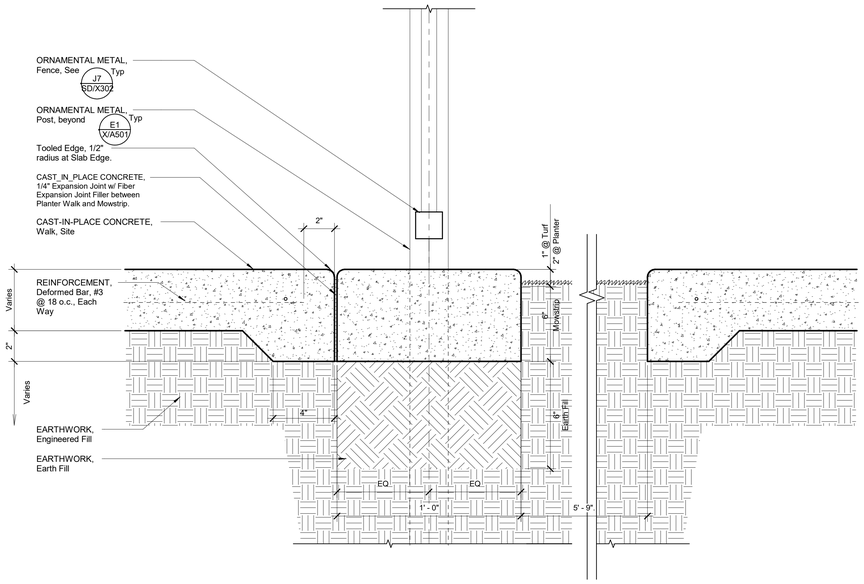
No.	Revision/Submission	Date

Revision

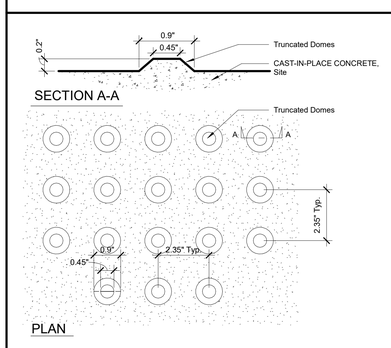
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Scale: As indicated	Drawn By: -		
Project Number: 2123	Checked By: -		
Date: 03/31/2023	Reviewed By: -		

SD/A102

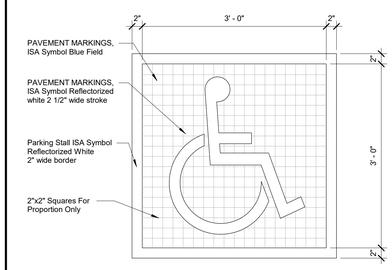
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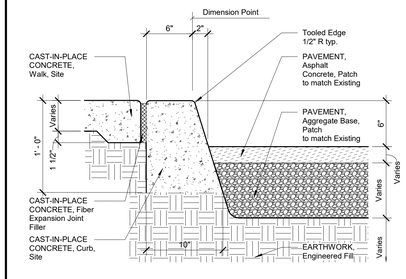
K1	CAST IN PLACE CONCRETE, Planter at Accessible Stalls
3" = 1'-0"	



K8	CAST-IN-PLACE CONCRETE, Truncated Domes
6" = 1'-0"	



P11	PAVEMENT, ISA Symbol @ Parking Stall
1" = 1'-0"	



K11	CAST-IN-PLACE CONCRETE, Curb @ Parking & Walk
1 1/2" = 1'-0"	

SYMBOLS

- CAST-IN-PLACE CONCRETE, 4" Concrete Walk over 6" 90% Compacted Fill.
- Building Outline
- Property Line
- Limits of Construction (Project Area)
- Staging Fence (Project Area)
- Covered Area
- Existing
- Slope (DN) — General Direction of Slope
- CAST-IN-PLACE CONCRETE, Control Joint
- CAST-IN-PLACE CONCRETE, Expansion Joint

ABBREVIATIONS

(E)	Existing	FF	Finish Floor	PL	Planter
C	Concrete	FG	Finish Grade	TB	Top of Bench
CJ	Control Joint	FL	Flow Line	TC	Top of Curb
EJ	Expansion Joint, 1/2"	FS	Floor Sink	TG	Top of Grate
FD	Floor Drain	GB	Grade Break	TF	Top of Fence
FDC	Fire Dept Connection	RG	Rough Grade	TL	Top of Lid
		MH	Manhole	TW	Top of Wall
		MS	Mow Strip	Typ.	Typical
		OC	On Center	UNO	Unless Noted Otherwise
		P	Pavement		
		PIV	Post Indicator Valve		

NOTES

1) CAST-IN-PLACE CONCRETE, All Concrete Walk Joints Shall Be Expansion Joints unless otherwise noted. Provide Expansion Joints where walk abuts other site elements.
2) ELECTRICAL, See Electrical Drawings
3) LANDSCAPING, See Landscape and Irrigation Drawings
4) Refer to CIVIL for Vertical Controls and Grading
5) For Exterior Finishes, Refer to

K15	Site Plan Legend
No Scale	

DSA File No.:
20-30

DSA Application No.:
02-120517

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DATE: 04/25/2023

Agency Approval

SYMBOLS

- SELECTIVE DEMOLITION, Existing Item and / or Area to be Removed and / or Relocated. (See Demolition Notes)
- SELECTIVE DEMOLITION, Sawcut, Remove and Dispose of Existing Concrete Paving (See Demolition Notes)
- Existing Asphalt Concrete Paving
- Existing Chain Link Fence
- D1 — Demolition Note Symbol
- L — Building Designation
- Existing Building

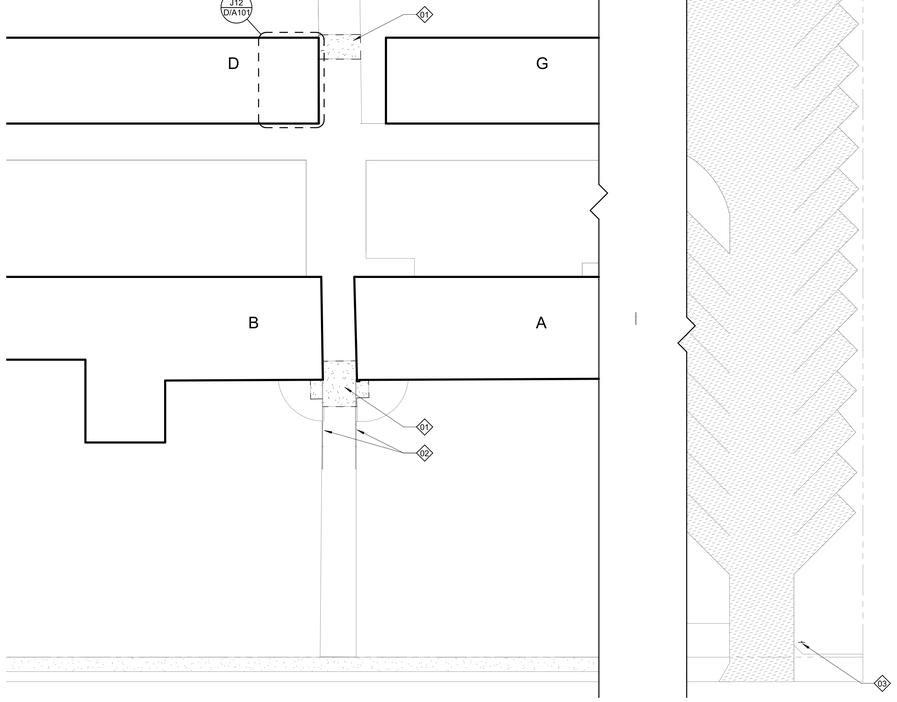
DEMOLITION NOTES

- D1 SELECTIVE DEMOLITION: Remove and Dispose of Existing Concrete Walk
- D2 SELECTIVE DEMOLITION: Remove Existing Fence. Retain for reinstallation.
- D3 SELECTIVE DEMOLITION: Remove and Dispose of Existing Parking Entrance Accessible Sign.

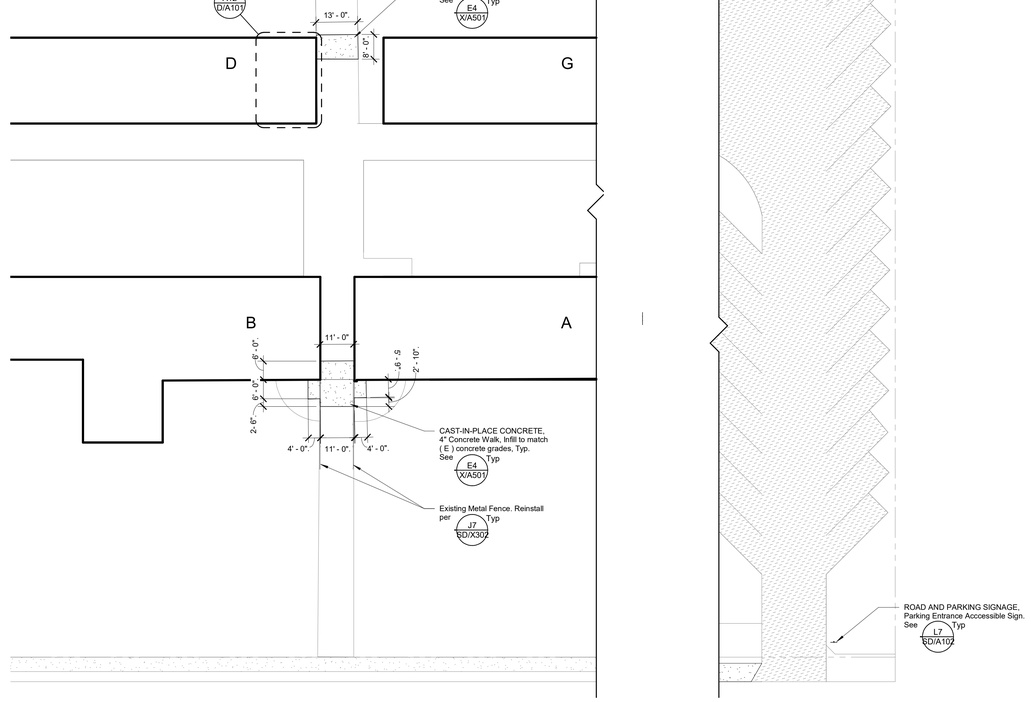
GENERAL NOTES

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3. Remove existing irrigation lines, heads and valves as required for new construction. The Contractor is responsible for field verification of the existing irrigation system within the new construction area and in providing all of what is required to amend and adjust the sprinkler system due to new improvements to provide a complete and operational system. Provide new sprinkler heads as required same as removed. The irrigation sytem shall remain in operation during construction
4. Refer to Topographic and Site Utility Surveys for Additional Information.
5. No demolition shall begin until plans including the demolition work have been approved by DSA.

J18	Demolition Partial Site Plan Legend
No Scale	



A1	Partial Demolition Plan
1" = 20'-0"	See J18 for Symbols, Abbreviations, and Notes.



A9	Enlarged Partial Site Plan
1" = 20'-0"	See K15 for Symbols and Notes.

Consultant

THOMAS JEFFERSON M. S. KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
Madera, CA

Project

ENLARGED SITE PLANS

Drawing

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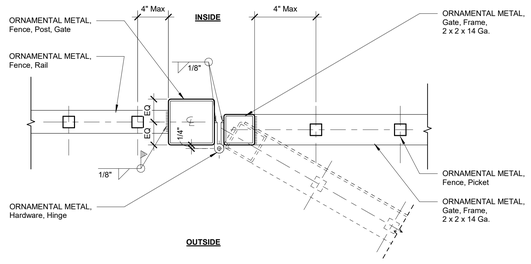
Architect

No.	Revision/Submission	Date

Revision

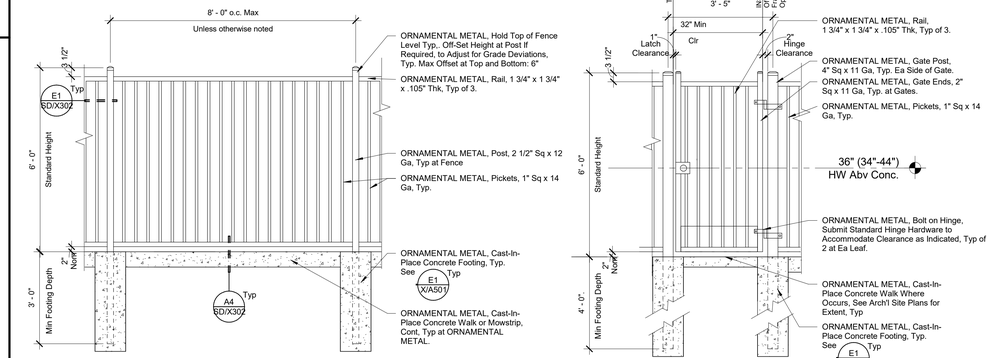
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Date: 03/31/2023	Reviewed By: -	

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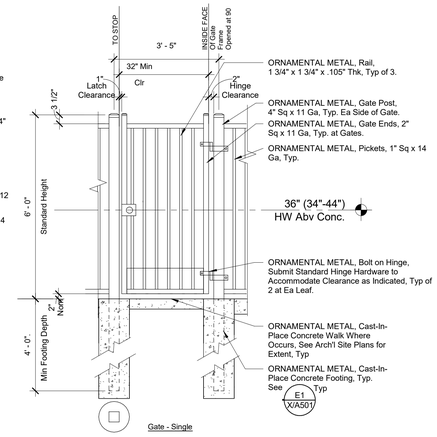
J1 — ORNAMENTAL METAL, Hinge Plan - Outside Swing

3" = 1'-0"



J7 — ORNAMENTAL METAL, Fence and Gate Elevations

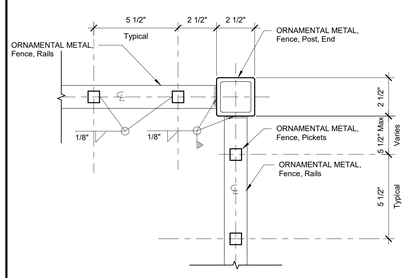
1/2" = 1'-0"



Gate - Single

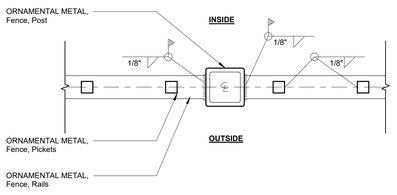
E1 — ORNAMENTAL METAL, Plan Section

3" = 1'-0"



E4 — ORNAMENTAL METAL, Plan at Inside and Outside Corner

3" = 1'-0"



LEGEND

1. Fabric
2. Post, Line
3. Post, Terminal
4. Post, Gate
5. Rails, Top
6. Rails, Horizontal
7. Rails, Braces
8. Rails, Bottom
9. Tension Wire
10. Hook Bolts
11. Tie Wires
12. Hog Rings
13. Tension Bar
14. Tension Bands
15. Truss Rod Assembly
16. Fittings, Post Cap, Line
17. Fittings, Post Cap, Terminal
18. Fittings, Rail End
19. Fittings, Brace End
20. Fittings, Top Rail Sleeves
21. Gates, Frame
22. Gates, Hardware, Hinges
26. Gates, Hardware, Keeper
27. Gates, Hardware, ADA Lock
28. Gates, Hardware, ADA Kick Plate

CHAIN LINK POST AND FOOTING SCHEDULE

MAX. FENCE HEIGHT	LINE POSTS		TERMINAL POSTS	
	POST	FOOTING	POST	FOOTING
4'-0"	2-3/8" O.D.	12" dia. x 2'-0" D.	2-7/8" O.D.	12" dia. x 2'-6" D.
6'-0"	2-7/8" O.D.	14" dia. x 2'-6" D.	3-1/2" O.D.	14" dia. x 3'-0" D.
8'-0"	2-7/8" O.D.	14" dia. x 3'-0" D.	3-1/2" O.D.	14" dia. x 3'-6" D.
10'-0"	3-1/2" O.D.	16" dia. x 3'-6" D.	4" O.D.	16" dia. x 4'-0" D.
12'-0"	3-1/2" O.D.	16" dia. x 4'-0" D.	4" O.D.	16" dia. x 4'-6" D.
14'-0"	3-1/2" O.D.	16" dia. x 4'-6" D.	4" O.D.	16" dia. x 5'-0" D.
16'-0"	4" O.D.	16" dia. x 5'-0" D.	4-1/2" O.D.	16" dia. x 5'-6" D.
18'-0"	4" O.D.	16" dia. x 5'-6" D.	4-1/2" O.D.	16" dia. x 6'-0" D.
20'-0"	4-1/2" O.D.	18" dia. x 6'-0" D.	5-9/16" O.D.	16" dia. x 6'-6" D.

Post and footing sizes are minimal unless specifically detailed and noted otherwise.

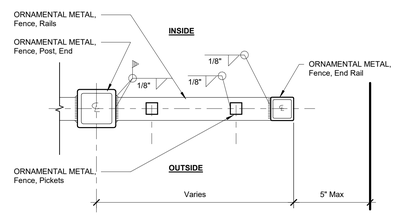
CHAIN LINK GATE POST AND FOOTING SCHEDULE

MAX. GATE LEAF WIDTH	6'-0" MAX. GATE HEIGHT		8'-0" MAX. GATE HEIGHT	
	GATE POST	POST FOOTINGS	GATE POST	POST FOOTINGS
4'-0"	2-3/8" O.D.	14" dia. x 2'-6" D.	2-7/8" O.D.	14" dia. x 3'-0" D.
6'-0"	2-7/8" O.D.	14" dia. x 3'-0" D.	2-7/8" O.D.	14" dia. x 3'-0" D.
8'-0"	2-7/8" O.D.	14" dia. x 3'-0" D.	4" O.D.	16" dia. x 3'-0" D.
10'-0"	2-7/8" O.D.	14" dia. x 3'-0" D.	4" O.D.	16" dia. x 3'-0" D.
12'-0"	4" O.D.	16" dia. x 3'-0" D.	4" O.D.	16" dia. x 3'-0" D.
14'-0"	4" O.D.	16" dia. x 3'-0" D.	6-5/8" O.D.	20" dia. x 3'-6" D.
16'-0"	4" O.D.	16" dia. x 3'-0" D.	6-5/8" O.D.	20" dia. x 3'-6" D.
18'-0"	4" O.D.	16" dia. x 3'-0" D.	6-5/8" O.D.	20" dia. x 3'-6" D.
20'-0"	----	----	8-5/8" O.D.	26" dia. x 4'-0" D.

Gate posts and footing sizes are minimum. When terminal posts are greater than gate posts, use terminal post and footing sizes for gate posts

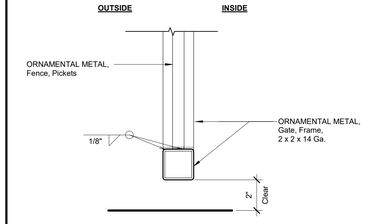
E11 — CHAIN LINK, Legend and Schedules

1/4" = 1'-0"



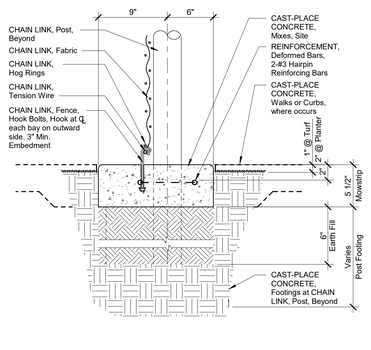
A1 — ORNAMENTAL METAL, Plan Section at Building

3" = 1'-0"



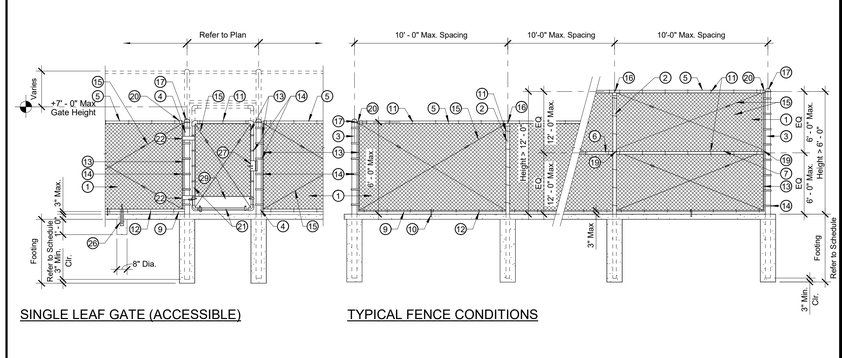
A4 — ORNAMENTAL METAL, Sill Section

3" = 1'-0"



A7 — CHAIN LINK, Footing and Mowstrip

1 1/2" = 1'-0"



SINGLE LEAF GATE (ACCESSIBLE)

TYPICAL FENCE CONDITIONS

A11 — CHAIN LINK, Typical Gate and Fence Conditions

1/4" = 1'-0"

DSA File No.: *20-30*

DSA Application No.: *02-120517*

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REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

Agency Approval

General Notes

Consultant

THOMAS JEFFERSON M. S. KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
Madera, CA

Project

SITE DEVELOPMENT
SITE DEVELOPMENT DETAILS

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Architect

No.	Revision/Submission	Date

Revision

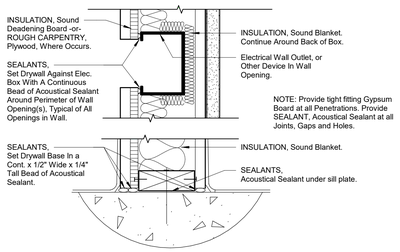
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Reviewed By: -

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Project Number: 2123
Date: 03/31/2023

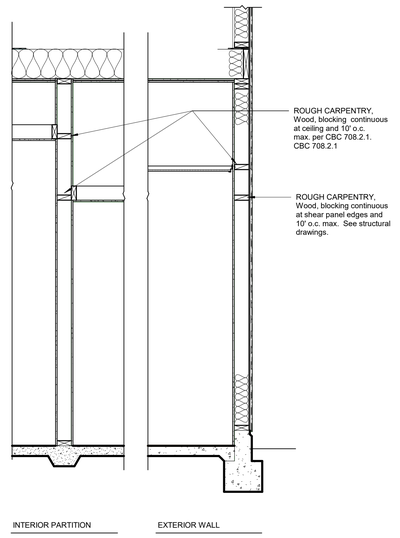
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N11 — WALL BASE DETAIL FOR WALLS WITH FULL HEIGHT / CONTINUOUS FINISHES

3" = 1'-0"

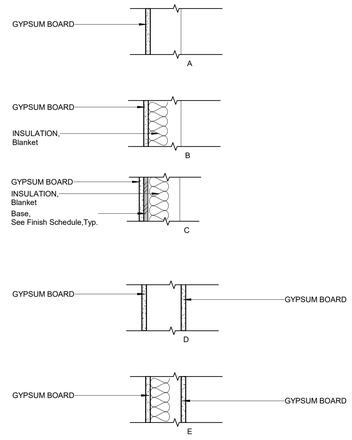


Note:
See BUILDING DATA
for Type of Construction

E11 — ROUGH CARPENTRY, WALL FIRE BLOCKING

1/2" = 1'-0"

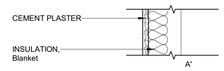
INTERIOR



J14 — Interior Wall Assembly

1 1/2" = 1'-0"

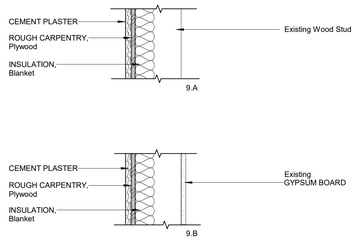
EXTERIOR



E14 — Exterior Wall Assembly

1 1/2" = 1'-0"

SPECIAL WALL ASSEMBLY



A14 — Special Wall Assembly

1 1/2" = 1'-0"

DSA File No.:
20-30

DSA Application No.:
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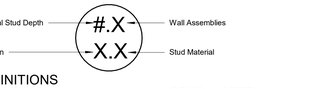
NOTES

1. These Schedules are provided for the convenience of the Contractor. All conditions and dimensions shall be field verified prior to any fabrication.
2. The intent of these schedules is to indicate the various layers of materials which comprise the different Wall Assembles.
3. Refer to the Exterior Elevations and Exterior Finish Schedule for additional Wall Covering and for Material Finishes.
4. Refer to the Interior Elevations and Interior Finish Schedule for additional Wall Coverings and for Material Finishes.
5. Where Ceramic Tile System are designated, refer to the Finish Schedule and Specification Section for the appropriate Ceramic Tile System.
6. Provide a continuous Thermal Blanket Insulation at all walls designated as Exterior Walls. Refer to the Specification Section for the Insulation Type and location for Installation.
7. Provide a continuous Sound Blanket at walls designated as Interior walls where insulation is indicated as part of Assembly.
8. Refer to Floor Plans for Typical and Special Wall Assemblies References.
9. Refer to the Floor Plans for Walls that are Designated to be Rated Assemblies.
10. ACOUSTICAL AND SOUND WALLS:
    - A. Wall Assemblies that are designated as Interior and contains both Sound Blanket and Sound Deadening Board (Sound Walls), Shall have sound treatment per Detail ***XX-X/A101.***
    - B. Wall Assemblies that are designated Acoustical, Shall have acoustical treatment per Detail ***XX-X/A101.***
    - C. Construct Walls per Typical and Special Wall Assemblies. Note the details referenced, show typical single stud construction. Construct special Wall Assembles similarly.
      Non-Bearing Walls:
      1) Connection to Floor or Roof Decks, Refer to Details ***XX-X/A101***
      2) Connection to Framing, Refer to Details ***XX-X/A101***
11. FIRE RATED WALLS.
    - A. Refer to Floor Plans for Fire Resistive Rating of Typical Wall Assemblies and special Wall Assemblies.
    - B. Fire Resistive Construction shall take Precedence over Sound Wall Construction.
    - C. For Sealing Penetrations through Fire-Rated Walls Refer to Detail xx-X/A101.
    - D. FIRE RESISTIVE CONSTRUCTION:
      1. Refer to the Floor Plans for Walls that are Designated to be Rated Assemblies.
      2. Stud size may exceed the minimum, and stud spacing may be less than the maixmum stated in the referenced Fire Rated Assemblies. Refer to the Floor Plan Wall Assembly Symbols, Legends and Structural drawings for Stud Size and Spacing.

CBC Design XX-X.X (Table 720)	= Refer to California Building Code, Chapter 7 For Fire Resistive Standards and Notes.
FRDM Design WP-XXXX	= Refer to Gypsum Association Fire Resistive Design Manual for Fire Resistive Standards and Notes.
UL Fire Resistive Design U-4xx	= Refer to Underwriters Laboratories Fire Resistance Directory for Fire Resistive Standards and Notes.

    - E. Construct Walls per Typical and Special Wall Assemblies. Note the details referenced, show typical single stud construction. Construct special Wall Assembles similarly.
      Non-Bearing Walls:
      1) Connection to Floor or Roof Decks, Refer to Details ***XX-X/A101***
      2) Connection to Framing, Refer to Details ***XX-X/A101***
12. Refer to Structural Sheets for Metal Stud Gauges and Lengths.

WALL ASSEMBLY SYMBOLS



DEFINITIONS

LOCATION
E = Exterior
I = Interior
A = Acoustical

STUD MATERIAL
W = Wood
M = Metal

NOMINAL STUD DEPTH

		METAL	WOOD
2	=	2"	1 1/2"
3	=	3 5/8"	2 1/2"
4	=	4"	3 1/2"
6	=	6"	5 1/2"
8	=	8"	7 1/2"
10	=	10"	9 1/4"
9	=	Special Wall Assemblies. Reserved for Special Construction, i.e., Multi-Stud Assemblies, refer to Special Wall Assembly Schedules	

WALL ASSEMBLIES
See Typical and Special Wall Assemblies Schedules

F18 — Typical Wall Assemblies Legend

No scale

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MADERA UNIFIED SCHOOL DISTRICT
Madera, CA
Project

TYPICAL INFORMATION
WALL ASSEMBLIES
Drawing

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Architect

No.	Revision/Submission	Date

Revision

	Designed By: -	Copyright 2023 Darden Architects
Scale: As indicated	Drawn By: -	X/A101
Project Number: 2123	Checked By: -	
Date: 03/31/2023	Reviewed By: -	

3/28/2023 8:56:49 AM
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Interior Finish Schedule

Building	Room Number	Room Name	Floor Finishes: CAST-IN-PLACE CONCRETE, Concrete Slab.	Floor Finishes: TILE, Ceramic Tile, SYS-IFA (Conc Sub Floor - Thin Set)	Floor Finishes: RESINOUS FLOORING,	Base Finishes: RESILIENT BASE AND ACCESSORIES, Rubber Wall Base, 4"	Base Finishes: TILE, Ceramic Tile, SYS-IWD (WR Gyp Bd - Thin Set)	Base Finishes: RESINOUS FLOORING, Base,	Wall Finishes: GYPSUM BOARD, Wallboard, (Texture GB-2)	Wall Finishes: (E) Gypsum Board	Wall Finishes: GYPSUM BOARD, Water Resistant, (Texture GB-2)	Wall Finishes: TILE, Ceramic Tile, SYS-IWD (WR Gyp Bd - Thin Set).	Wall Finishes: FRP Panels over Gypsum Board, Water Resistant (GB-3)	Wall Finishes: FOOD SERVICE, Stainless Steel Wall Panels	Wall Finishes: (E) Concrete Masonry Units	Ceiling Finishes: ACOUSTICAL CEILINGS, Suspension System,	Ceiling Finishes: GYPSUM BOARD, Wallboard (Texture GB-2),	Ceiling Finishes: (E) Gypsum Board	Miscellaneous Finishes: METAL DOORS AND FRAMES, Doors, Panels and Frames	Miscellaneous Finishes: (E) Metal Doors and Frames	Remarks
C	100	Multi - Purpose	(E)	-	-	FF	-	-	DW-5	DW-5	-	-	-	-	-	-	-	-	-	M-2	1
C	101	Line Servery	-	-	RF-1	-	-	RF-1	DW-5	DW-5	-	CT-3, CT-4	-	-	-	FF	DW-5	-	-	-	
C	102	Kitchen	-	-	RF-1	-	-	RF-1	-	DW-5	DW-5	-	FF	FF	-	FF	DW-5	DW-5	M-2	M-2	2
C	103	Walk In	-	-	RF-2	-	-	RF-2	-	-	-	-	-	-	-	-	-	-	-	-	
C	104	Mech	CFS	-	-	FF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
C	105	Walk In	-	-	RF-2	-	-	RF-2	-	-	-	-	-	-	-	-	-	-	-	-	
C	106	Walk In	-	-	RF-2	-	-	RF-2	-	-	-	-	-	-	-	-	-	-	-	-	
C	107	Managers Off.	-	-	RF-1	-	-	RF-1	DW-5	-	-	-	-	-	-	FF	-	-	M-2	-	
C	108	Janitor	CFS	-	-	FF	-	-	-	-	-	-	FF	-	-	-	DW-5	-	M-2	-	
C	109	Staff Toilet	-	CT-1	-	-	CT-1	-	-	-	-	CT-2	-	-	-	-	DW-5	-	M-2	-	
C	110	Corridor	-	-	RF-1	-	-	RF-1	-	-	-	-	FF	-	-	-	DW-5	-	M-2	M-2	
C	111	Dry Goods	-	-	RF-1	-	-	RF-1	-	-	-	-	FF	-	-	-	DW-5	-	M-2	-	
C	112	Receiving	-	-	RF-1	-	-	RF-1	-	DW-5	-	-	FF	-	CB-3	-	-	DW-5	M-2	M-2	
C	113	Grab And Go	-	-	RF-1	-	-	RF-1	DW-5	-	-	CT-3, CT-4	-	-	-	-	DW-5	-	M-2	-	
D	107	Boys	-	CT-5	-	-	-	-	-	-	-	CT-6	-	-	-	-	-	-	-	-	3, 4, 5
D	108	Girls	-	CT-5	-	-	-	-	-	-	-	CT-6	-	-	-	-	-	-	-	-	3, 4, 5

DSA File No.:
20-30

DSA Application No.:
02-120517

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APP: 02-120517 INC:
REVIEWED FOR
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DATE: 04/25/2023

Agency Approval

ABBREVIATIONS

CFS = Clear Floor Sealer
CT# = Ceramic Tile Type
FF = Factory Finish
RF# = Resinous Floor Type
CB = Concrete or Concrete Block Finish
* = Refer To Remarks

Interior Paint Finishes:

Refer To Specification Section - PAINTING
CB# = Concrete or Concrete Masonry Units
DW# = Gypsum Board Finish
P# = Cement Plaster, Veneer Plaster or Gypsum Plaster Finish
M# = Metal Finish
W# = Woodwork Finish
X# = Special Finishes

NOTES

1. Refer to appropriate Specification Sections for Materials, Systems and Types.
2. All Details, Materials and Finishes shall be considered "Typical" for all similar conditions, Unless Otherwise Noted.
3. Do not paint Fire Rated Door and Frame Rating Plates.
4. Where changes in Floor Materials occur, refer to detail E11-X/A410.
5. Refer to Interior Elevations for additional information.
6. This Schedule is provided for the convenience of the Contractor. Field verify all conditions and dimensions prior to fabrication, installation or applicaton.
7. See Interior Color Schedule for Finish / Material Colors.
8. Gypsum Board Textures indicated are for areas exposed to view. Areas above ceilings shall be GB5, Unless Otherwise Noted. Refer to Specifications for appropriate locations of other textures.
9. VAPOR-ALKALINITY CONTROL: Apply Vapor-Alkalinity Control Membrane System at all concrete slab areas scheduled to receive applied floor covering that are sensitive to and have requirements for limits of vapor transmission and pH levels."

REMARKS

1. New Rubber Base to be install on East and South Walls only. Base to match to existing height and a profile to adjacent base.
2. Refer to Food Service Drawings.
3. CT-5 = Match to existing flooor tile. Tile to be removed and Patched where Modernization takes place.
4. CT-6 = Match to existing wall tile. Tile to be removed and Patched where Modernization takes place.
5. Any work performed in Building D is to match to adjacent surface.

J1 — Interior Finish Schedule
No Scale — Refer to J18 for Notes

J18 — Interior Finish Schedule Legend
No Scale

SITE DEVELOPMENT

MATERIAL	FINISH	REMARKS
CAST-IN-PLACE CONCRETE		
Curbs, Curb and Gutters, Mowstrips, Aprons, Valley Gutter, Housekeeping Pads, Site Light Pole Bases	Natural Cast Concrete	
Walks, Platforms, Steps, Ramps	Broom Finish	
METAL DOORS AND FRAMES		
Doors, Panels, Frames and Accessories	EM-2	
SHEET METAL		
Miscellaneous Flashings, Fence Parapet Caps	EM-2	
ORNAMENTAL METAL		
Fence, Gates, Accessories	EM-2	

BUILDINGS

MATERIAL	FINISH	REMARKS
SHEET METAL		
Architectural	EM-2	Exposed to all Viewing Angles
Utility	Galvanized	
METAL DOORS AND FRAMES		
Doors, Panels, Frames and Louvers	EM-2	
COILING DOORS	Galvanized	
CEMENT PLASTER		
Cement Plaster	EP-6	Includes back of Parapets
Metal Accessories	EP-6	Includes back of Parapets
Accessories, Special Trim Shape	F.F.	
MECHANICAL		
Exhaust Fans, Vent Stacks, Mechanical Units, & Misc... Equipment	EM-2	See Remark 1
ELECTRICAL		
Exposed to View Conduits	EM-2	
Switchgear, Transformer, Light Fixtures, Fire Alarm Devices, Speakers.	F.F.	

ABBREVIATIONS:

F.F. = Factory Finish

Exterior Paint Finishes:
Refer to Specification Section - PAINTING
ECB-x = Concrete or Concrete Masonry Units
X-x = Specialty Finish
EM-x = Exterior Metal Finish
EW-x = Exterior Wood Finish
EP-x = Cement Plaster

NOTES:

1. Refer to Appropriate Specification Sections for Materials and Systems.
2. All Details, Material and Finishes Shall be Considered "Typical" for all similar conditions unless noted otherwise.
3. Refer to Exterior Elevations for extent of materials and finishes, Includes Backs of Parapets, Typical
4. All finishes shall comply with 2019 CBC, Chapter 8.

REMARKS

1. Do not paint Mechanical Units Condensing Coils and Name Plates.

A1 — Exterior Finish Schedule
No Scale — Refer to A14 for Notes

A14 — Exterior Finish Schedule Legend
No Scale

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TYPICAL INFORMATION
INTERIOR FINISH SCHEDULE
Drawing

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Architect

No.	Revision/Submission	Date

Revision

Designed By: -
Drawn By: -
Checked By: -
Reviewed By: -

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Scale: As indicated
Project Number: 2123
Date: 03/31/2023

X/A201

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Opening Schedule Window

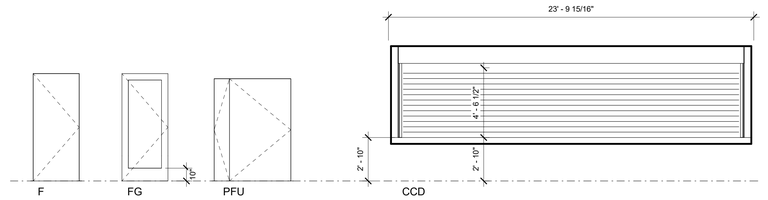
Building	Mark	Frame Type	Size		Material	Head	Jamb	Sill	Glazing	Comments
			Width	Height					Type	
C	113 a	HM-6	3' - 0"	7' - 0"	HM				C2-2T	5

Opening Schedule Door

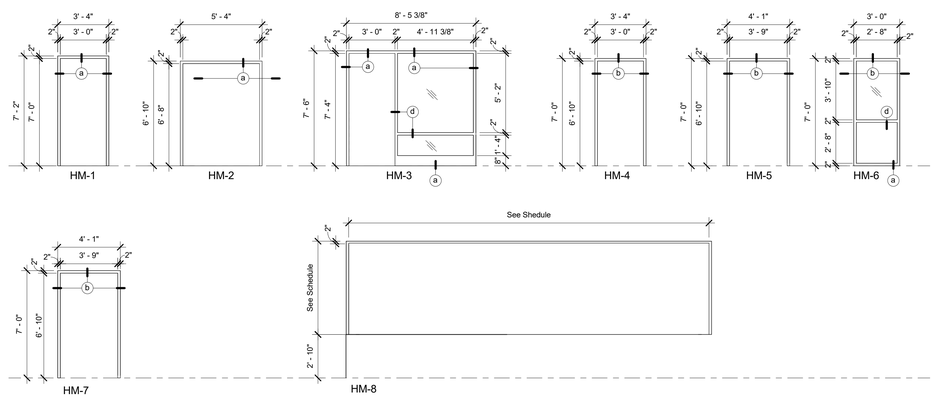
Building	Door No.	Frame Type	Size			Door Material	Model No	Door Type	Glass Type	Head	Jamb	Threshold	Hardware		Fire Rating	Comments
			Width	Height	Thickness								Group	Keying Room No		
C	100 a	(E)	5' - 0"	7' - 0"	1 3/4"	(E)		(E)		-	-	-	-	-	-	7
C	100 b	(E)	5' - 0"	7' - 0"	1 3/4"	(E)		(E)		-	-	-	-	-	-	9
C	101 a	HM-8	23' - 6"	4' - 6 1/2"	2"	SS	JPa		-	J7-X/A412	A7-X/A412	N4-X/A412	-	-	-	1
C	102 a	(E)	3' - 0"	6' - 8"	1 3/4"	(E)		(E)	-	-	-	-	-	-	-	2, 8
C	102 b	HM-4	3' - 0"	6' - 10"	1 3/4"	-		-	-	N11-X/A11	J11-X/A411	-	-	-	-	
C	102 c	HM-7	3' - 9"	6' - 10"	1 3/4"	-		-	-	E7-X/A411	A7-X/A411	-	-	-	-	
C	107 a	HM-1	3' - 0"	7' - 0"	1 3/4"	HM		FG	C-1T	N7-X/A411	J7-X/A411	E11-X/A410	50A	110	-	
C	108 a	HM-1	3' - 0"	7' - 0"	1 3/4"	HM		F	-	N7-X/A411	J7-X/A411	E11-X/A410	80	110	-	
C	109 a	HM-1	3' - 0"	7' - 0"	1 3/4"	HM		F	-	N7-X/A411	J7-X/A411	E11-X/A410	85	110	-	
C	110 a	HM-1	3' - 0"	7' - 0"	1 3/4"	HM		F	-	N14-X/A11	J14-X/A411	E14-X/A410	99E	ext	-	
C	111 a	HM-5	4' - 0"	7' - 0"	1 3/4"	HM		F	-	N7-X/A411	J7-X/A411	E11-X/A410	75	112	-	
C	112 a	HM-2	5' - 0"	6' - 8"	1 3/4"	HM		F	-	N14-X/A11	J14-X/A411	E14-X/A410	99E	ext	-	5, 6
C	112 c	(E)	3' - 0"	6' - 8"	1 3/4"	(E)		-		-	-	-	-	-	-	
C	113 b	HM-3	8' - 5 3/8"	7' - 4"	1 3/4"	HM		FG	C2-2T	N4-X/A411	J1-X/A411, E4-X/A411, A4-X/A411	E14-X/A410	99E	ext	-	3, 4
C	113 c	HM-3	8' - 5 3/8"	7' - 4"	1 3/4"	HM		FG	C2-2T	N4-X/A411	J1-X/A411, E4-X/A411, A4-X/A411	E14-X/A410	99E	ext	-	3, 4
D	108a	(E)	3' - 0"	6' - 8"	1 3/4"	(E)		(E)	-	-	-	-	-	-		2

N1 — Window Schedule
No Scale — Refer to F18 for Legend

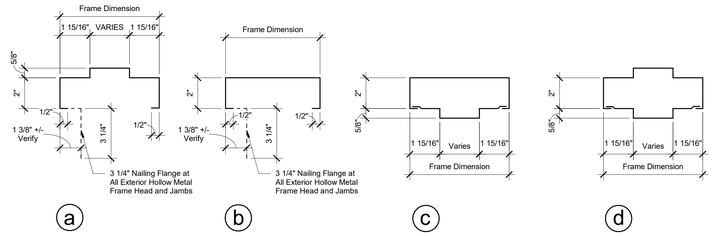
N7 — Door Schedule
No Scale — Refer to F18 for Legend



J10 — Door Types
No Scale — .



E10 — Frame Elevation Legend
1/4" = 1'-0" — .



A10 — Hollow Metal Frame Details
3" = 1'-0" — .

DSA File No.: *20-30*

DSA Application No.: *02-120517*

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ABBREVIATIONS

SG - Steel Gate
SW - Service Window
STL - Steel
HM - Hollow Metal
SG - Site Gate
CCD - COILING DOORS,

GENERAL NOTES

1. This schedule is provided for the convenience of the General Contractor. Dimensions indicated are nominal dimensions.
2. The General Contractor is responsible for all coordination and review of drawings and verifying all field conditions and dimensions prior to fabrication. Not all detail references are included in the schedule.
3. Provide metal closure plates for HM Frames at concrete curbs, Typical, Refer to Detail E7-X/A410.
4. All details, materials and finishes shall be considered typical for all similar conditions unless noted otherwise.
5. Door Types are shown on sheet X/A401.
6. Frame Types are shown on sheets X/A401.
7. For material transition at doors see E11-X/A410.
8. Exit Doors shall be openable from inside without the use of a key or any special knowledge or effort.
9. For opening Head, Jamb, and Sill framing conditions, see Structural Drawings.
10. At exterior wall locations, provide flashing as noted in Opening Schedule Comments #1, whether noted in the schedule or not.
11. Doors, and sidelite's adjacent to doors, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the floor. This shall not apply if all Glazing Panels are 66" or greater above the Finish Floor

OPENING SCHEDULE COMMENTS

1 Motor operated coiling door. Coordinate with Electrical.
2 Existing Door and Hardware. Door swing reversed. Patch and paint (E) door hinge pockets. Prep and patch frame to receive door as indicated on drawings
3 See Detail J7-X/A410 for flashing at Hollow Metal Doors: Exterior wall locations.
4 HARDWARE, Exit/Panic Devices, section HARDWARE, where occurs.
5 Verify Frame size in (E) Opening prior to fabrication
6 Uneven door Leaf
7 Existing Door and Frame to be painted on interior side only. Refer to Interior Color Schedule.
8 Existing Door/Frame to be painted. Verify finish prior to the commencement of work. Refer to Interior Color Schedule.
9 Existing Door/Frame no work.

F18 — Opening Schedule Legend
No Scale

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TYPICAL INFORMATION
OPENING SCHEDULES, FRAME ELEVATIONS
Drawing

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Architect

No.	Revision/Submission	Date

Revision

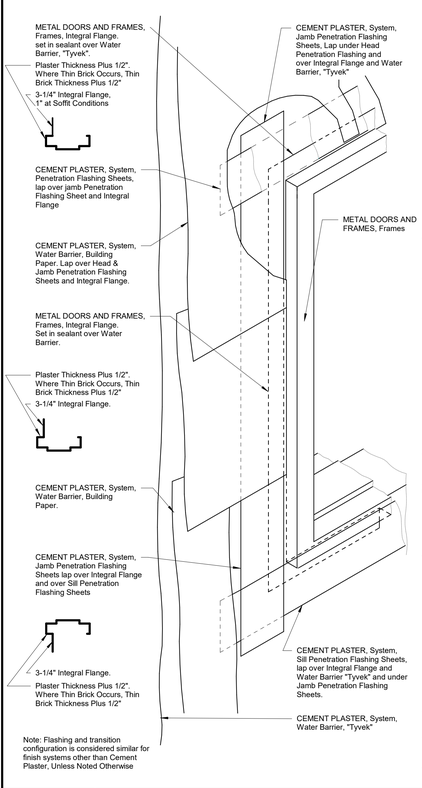
Designed By: -
Drawn By: -
Checked By: -
Reviewed By: -

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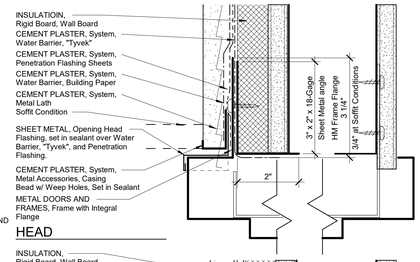
Scale: As indicated
Project Number: 2123
Date: 03/31/2023

X/A401

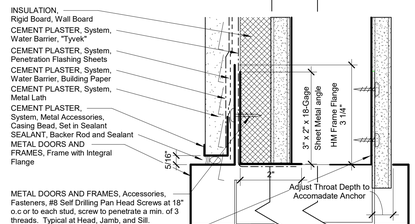
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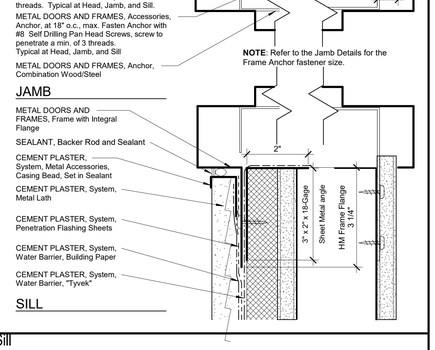
HEAD



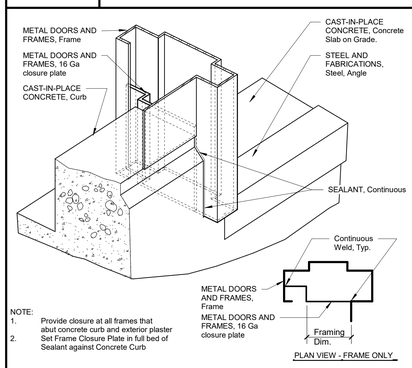
JAMB



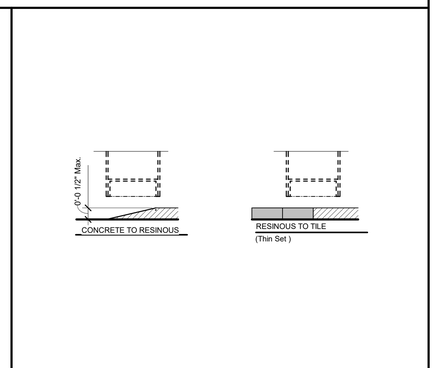
SILL



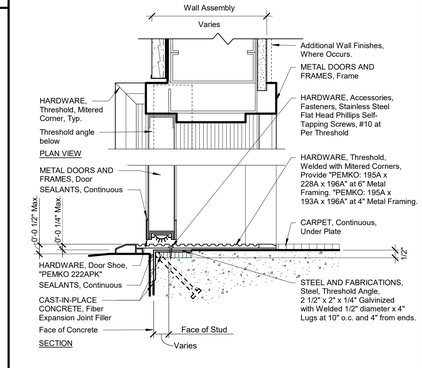
J7	METAL DOORS AND FRAMES, Head, Jamb, and Sill Integral Flange at Exterior Cement Plaster



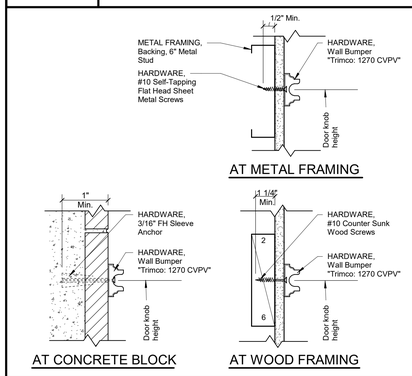
E7	METAL DOORS AND FRAMES, Closure Plate at Concrete Curb
3" = 1'-0"	



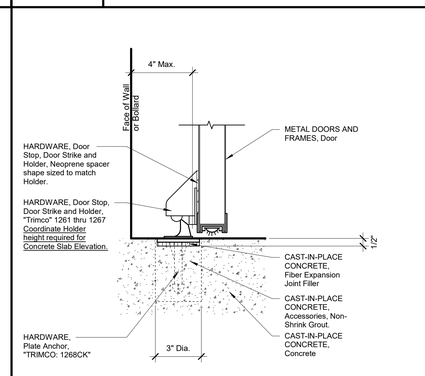
E11	Flooring Transitions, at Interior
3" = 1'-0"	



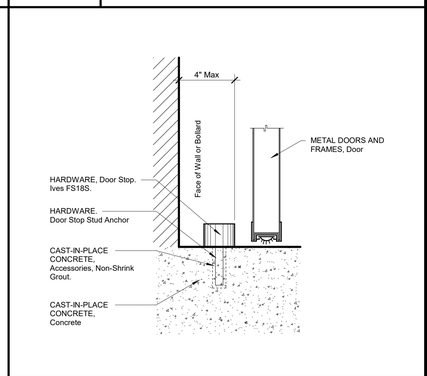
E14	HARDWARE, Threshold at Exterior Metal Doors
3" = 1'-0"	



A7	HARDWARE, Door Stop at Exterior & Interior
3" = 1'-0"	



A11	HARDWARE, Door Stop at Exterior & Interior
3" = 1'-0"	



A14	HARDWARE, Door Stop at Exterior & Interior
3" = 1'-0"	

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NOTES

1. WALL ASSEMBLY: Refer to Floor Plans, Typical Wall Assembly Schedule and Special Wall Assembly Schedule for wall depth and wall materials. Coordinate the required depth of Metal Frame.
2. WALL FINISHES: Refer to Interior Elevations and Interior Finish Schedules for the Wall Material Finishes and Additional Wall Coverings.
3. FLOOR MATERIAL: Refer to Floor Plans and Interior Finish Schedules for the actual floor material to be installed.
4. GLASS: Refer to Opening Schedules and SPECIFICATION SECTION - GLASS for Glass type and thickness.
5. SHEET METAL: For Information regarding Opening Head, Jamb, and Sill Flashing,refer to SPECIFICATION SECTION - SHEET METAL and Details J7-X/A410
6. DETAIL REFERENCES: All Detail References are to this sheet, unless otherwise noted.

H18	Exterior Opening Notes, METAL DOORS AND FRAMES
No Scale	

Consultant

THOMAS JEFFERSON M. S. KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
Madera, CA
Project

TYPICAL INFORMATION
METAL DOORS AND FRAMES
Drawing

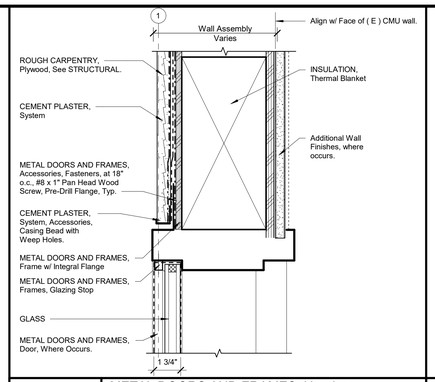
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Architect

No.	Revision/Submission	Date

Revision

	Designed By:	-	Copyright 2023 Darden Architects
Scale: As indicated	Drawn By:	-	X/A410
Project Number: 2123	Checked By:	-	
Date: 03/31/2023	Reviewed By:	-	

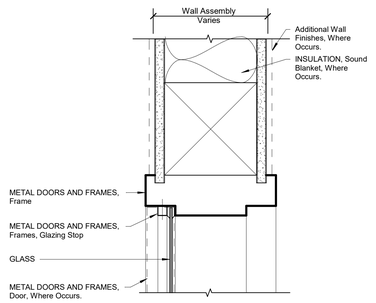
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N4

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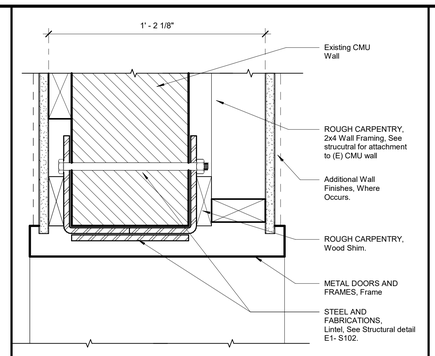
METAL DOORS AND FRAMES, Head at Exterior



N7

3" = 1'-0"

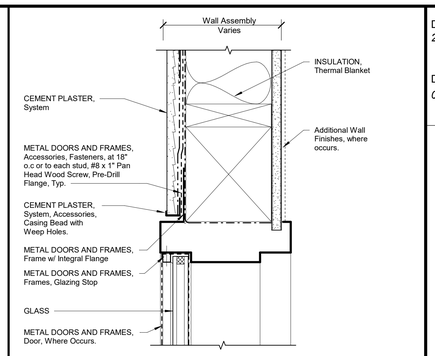
METAL DOORS AND FRAMES, Head at Interior



N11

3" = 1'-0"

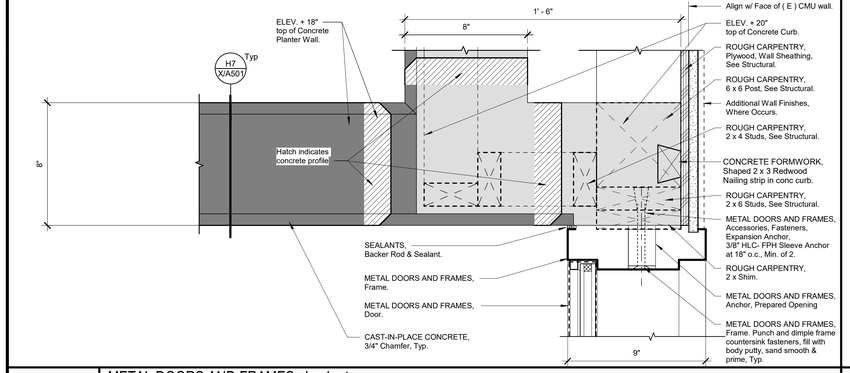
METAL FRAMES, Head at Cased Opening, CMU Wall



N14

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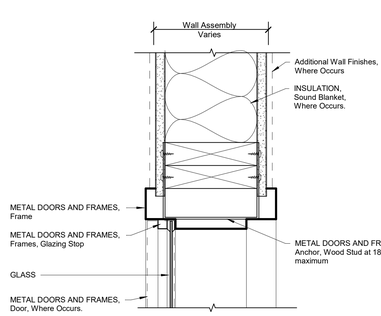
METAL DOORS AND FRAMES, Head at Exterior



J1

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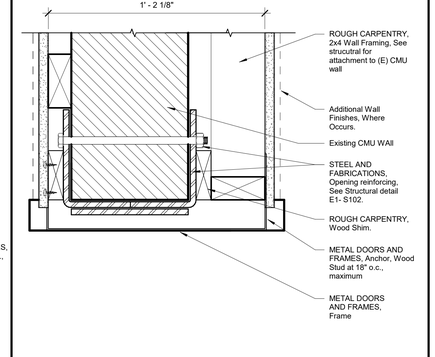
METAL DOORS AND FRAMES, Jamb at Exterior Concrete Curb



J7

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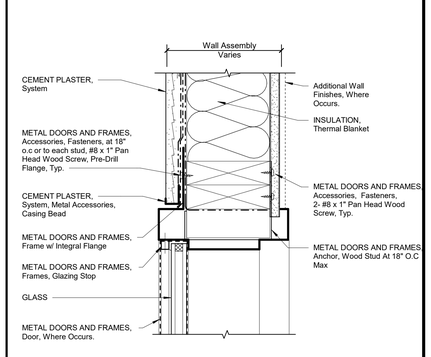
METAL DOORS AND FRAMES, Jamb at Interior



J11

3" = 1'-0"

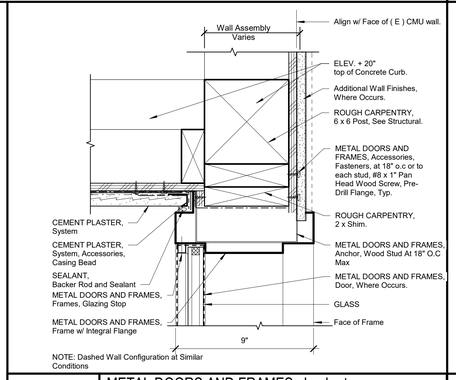
METAL FRAMES, Jamb at Cased Opening, CMU Wall



J14

3" = 1'-0"

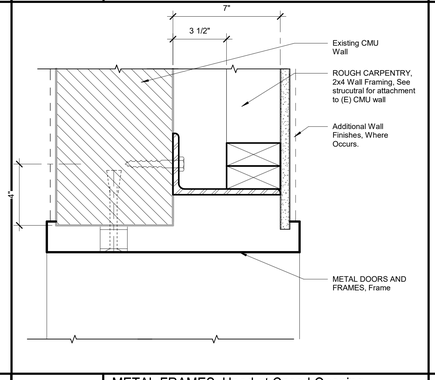
METAL DOORS AND FRAMES, Jamb at Exterior



E4

3" = 1'-0"

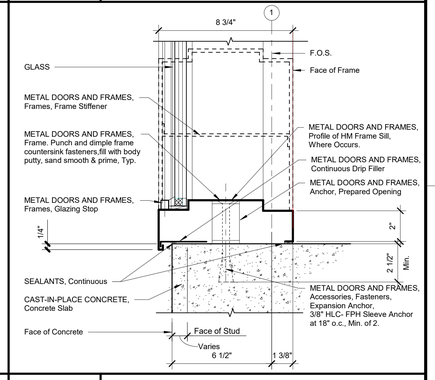
METAL DOORS AND FRAMES, Jamb at Exterior



E11

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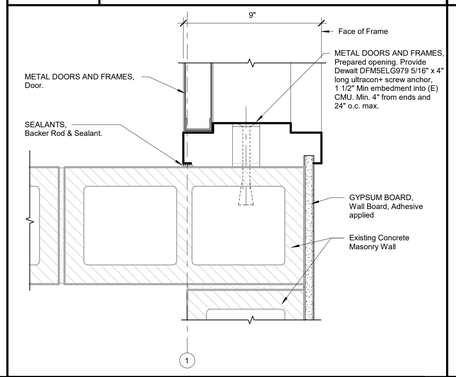
METAL FRAMES, Head at Cased Opening, CMU Wall



E14

3" = 1'-0"

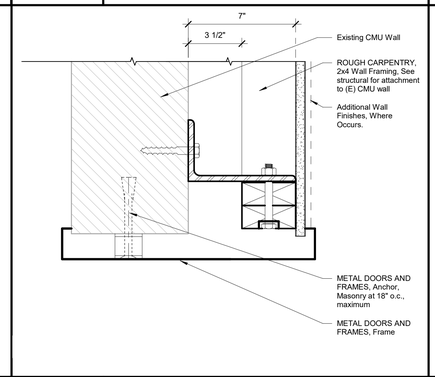
METAL DOORS AND FRAMES, Sill at Exterior



A4

3" = 1'-0"

METAL DOORS AND FRAMES, Jamb at Exterior CMU Wall



A11

3" = 1'-0"

METAL FRAMES, Jamb at Cased Opening, CMU Wall

DSA File No.:
20-30

DSA Application No.:
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DATE: 04/25/2023

Agency Approval

NOTES:

1. HOLLOW METAL DOOR AND FRAMES, Where Hollow Metal frames occur adjacent to Concrete Curbs, Refer to Detail E7-X/A410.

General Notes

Consultant

THOMAS JEFFERSON M. S. KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
Madera, CA

Project

TYPICAL INFORMATION
DOOR AND FRAME DETAILS

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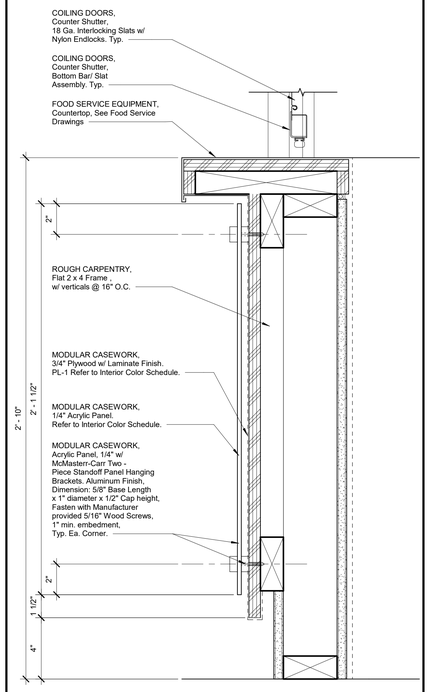
Architect

No.	Revision/Submission	Date

Revision

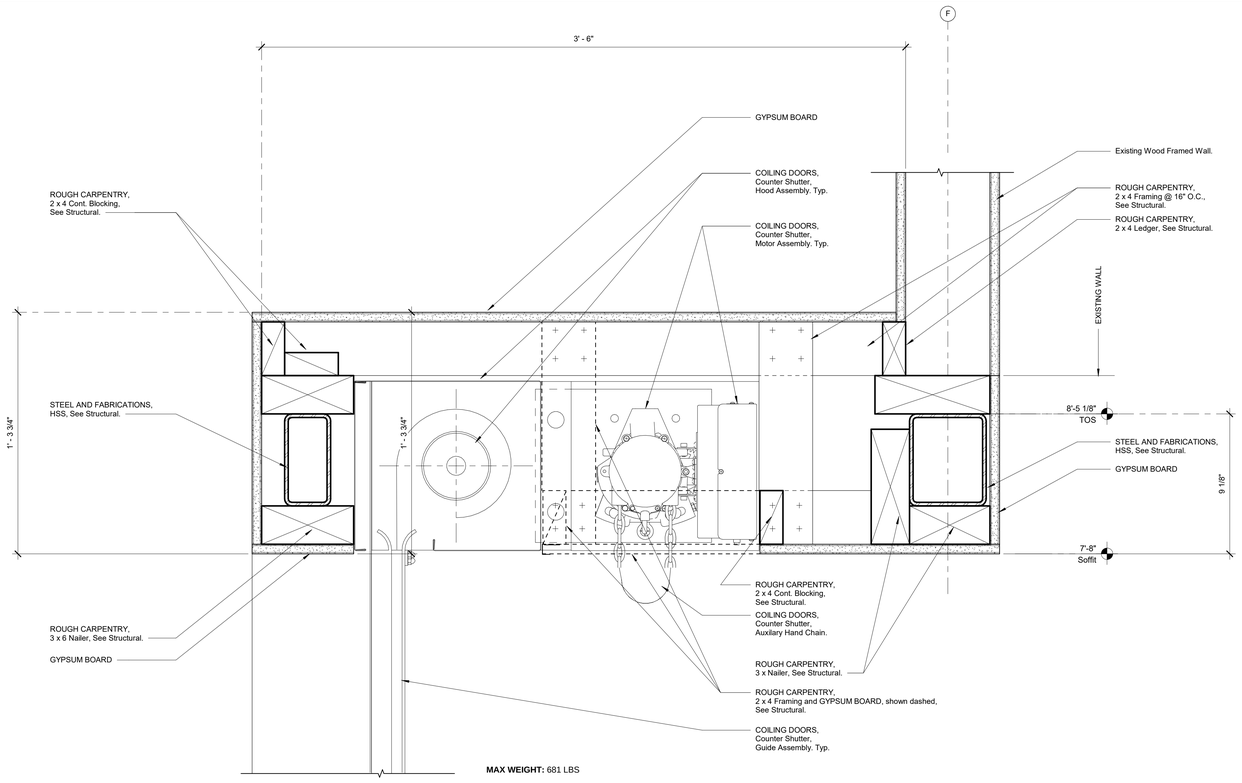
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J4 — COILING DOORS, Sill

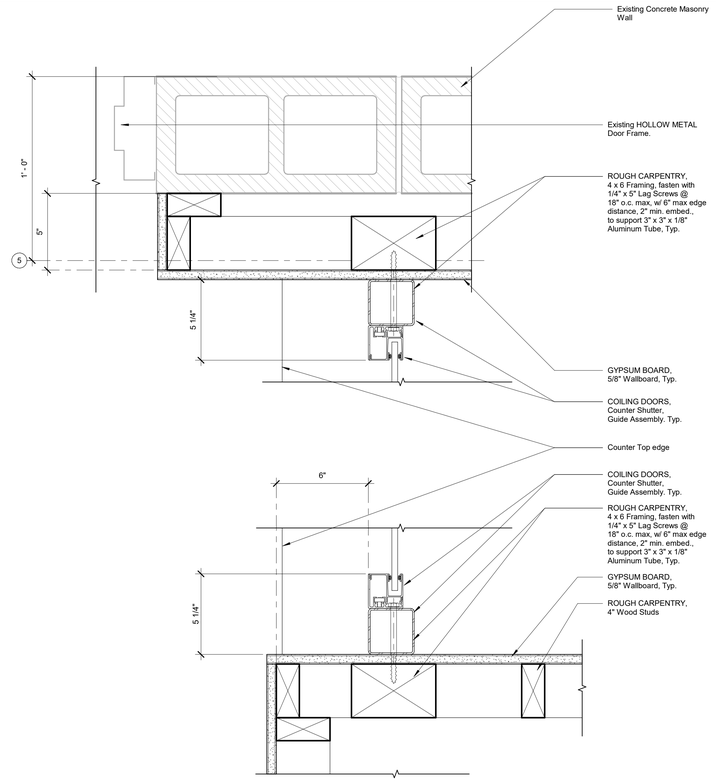
3" = 1'-0"



MAX WEIGHT: 681 LBS

J7 — COILING DOORS , Head

3" = 1'-0"



A7 — COILING DOORS, Jambs

3" = 1'-0"

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20-30

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General Notes

Consultant

THOMAS JEFFERSON M. S. KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
Madera, CA

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TYPICAL INFORMATION
COUNTER DOOR DETAILS

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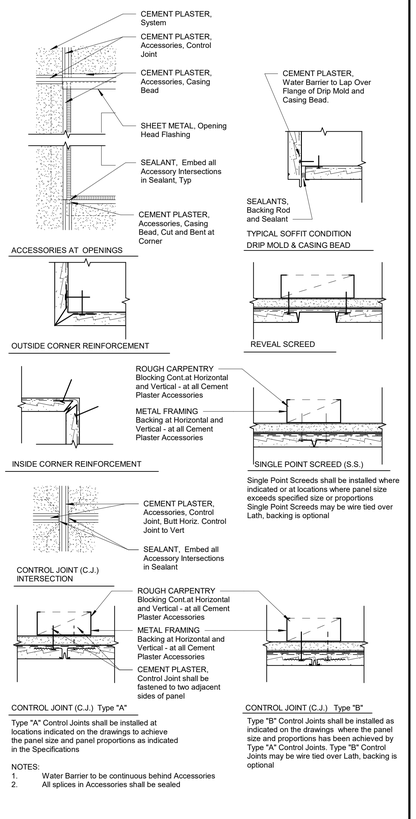
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Date:	03/31/2023	Reviewed By: -	

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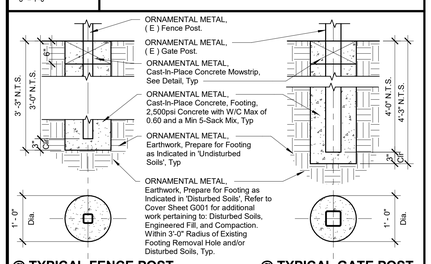


NOTES:

1. Water Barrier to be continuous behind Accessories
2. All splices in Accessories shall be sealed

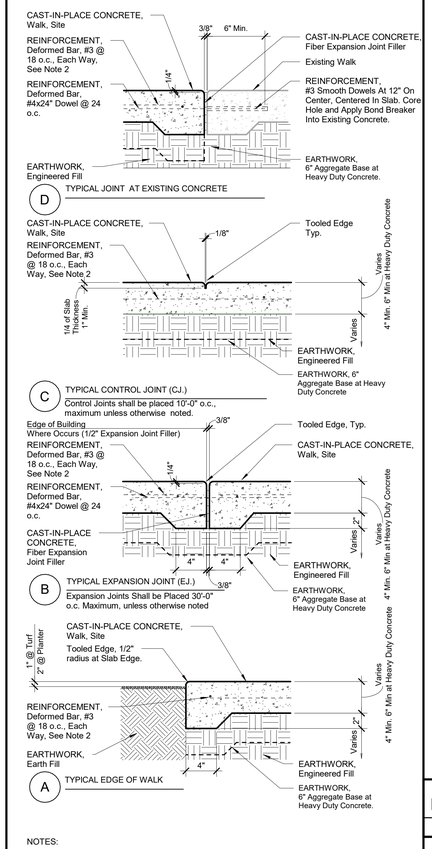
H1 — CEMENT PLASTER , ACCESORIES

3" = 1'-0"



E1 — ORNAMENTAL FENCE, Footing

3/4" = 1'-0"



NOTES:

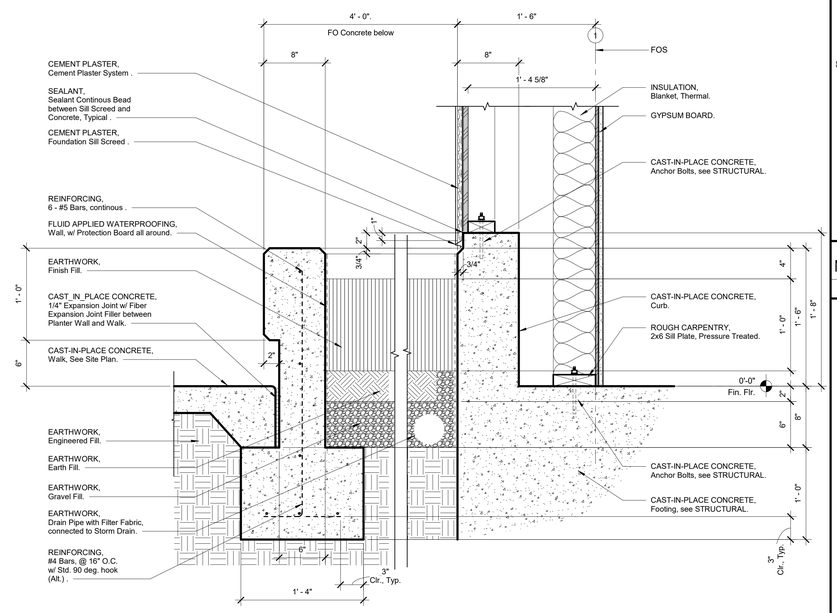
1. Slope Concrete Walks 1.5% away from structure, unless noted otherwise.
2. Site improvements shall conform to the americans with disabilities act, California title 24, the California building code, current edition(s).
3. Contractor shall field verify all grades and slopes prior to the placement of concrete and/or pavement for conformance with ada access compliance requirements. Examples of minimum and maximum limits related to ADA Access compliance include, but are not limited to:

   A) accessible path of travel cross-slope shall not exceed 2%

   B) accessible path of travel longitudinal slopes shall not exceed 5%
4. Contractor must immediately notify the architect of record of any site condition(s) and/or design information that prevents the contractor from complying with the laws, regulations and/or building codes governing ADA access compliance

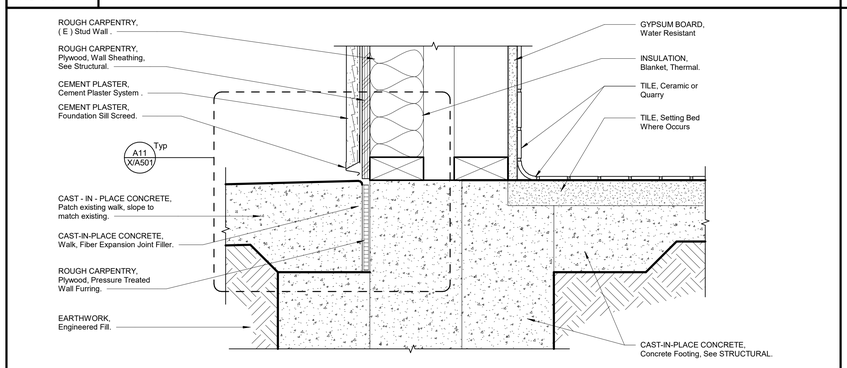
E4 — CAST-IN-PLACE CONCRETE, Walk Sections

1 1/2" = 1'-0"



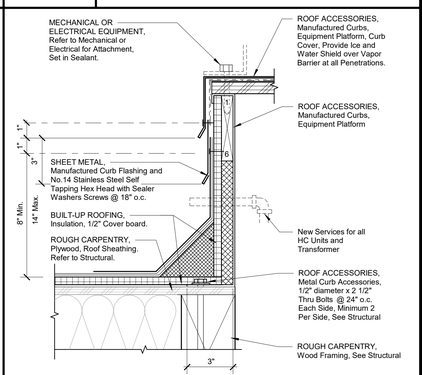
H7 — CAST-IN-PLACE CONCRETE, Planter

1 1/2" = 1'-0"



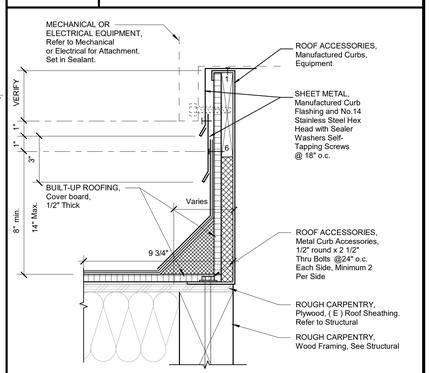
E7 — CAST-IN-IN-PLACE CONCRETE, (E) Exterior Wall Sill

3" = 1'-0"



N14 — SHEET METAL, Tall Pipe Roof PENETRATION

3" = 1'-0"

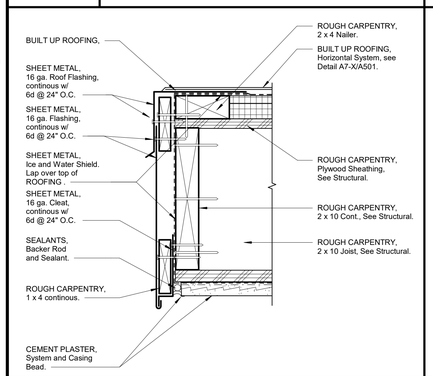


J14 — ROOF ACCESORIES, Manufactured Curbs, Equipment

3" = 1'-0"

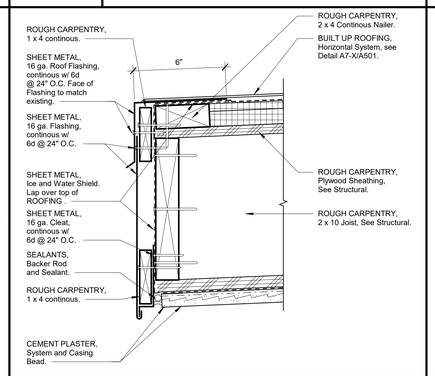
E14 — ROOF ACCESORIES, Manufactured Curbs, Equipment Platform

3" = 1'-0"



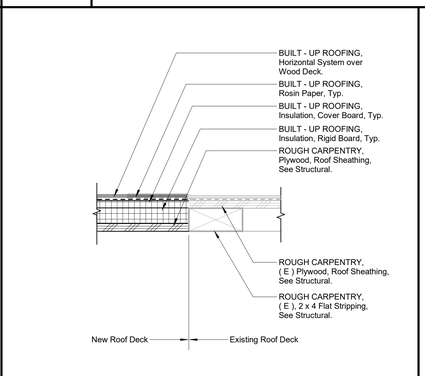
A1 — SHEET METAL, Rake Flashing

3" = 1'-0"



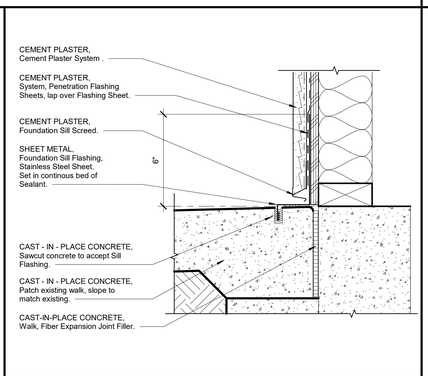
A4 — SHEET METAL, Fascia Flashing

3" = 1'-0"



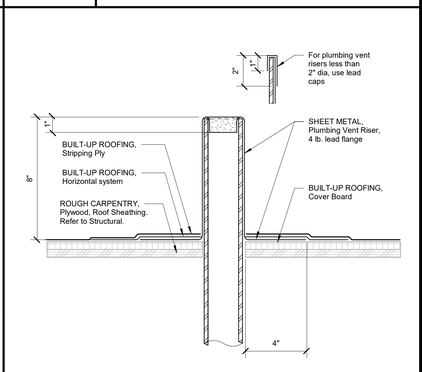
A7 — BUILT-UP-ROOFING, Horizontal System

3" = 1'-0"



A11 — SHEET METAL, Foundation Sill Flashing

3" = 1'-0"



A14 — SHEET METAL, Plumbing Vent Riser

3" = 1'-0"

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DSA Application No.: *02-120517*

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DATE: 04/25/2023

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NOTES

1. CEMENT PLASTER, Cement Plaster System, Accessories, Refer to Detail H1-X/A501

H18 — Exterior Detail Notes

No Scale

THOMAS JEFFERSON M. S. KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
Madera, CA
Project

TYPICAL INFORMATION
EXTERIOR DETAILS
Drawing

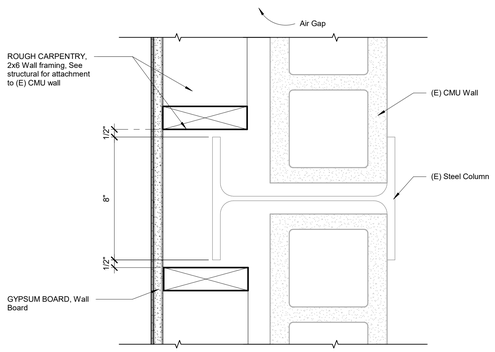
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Architect

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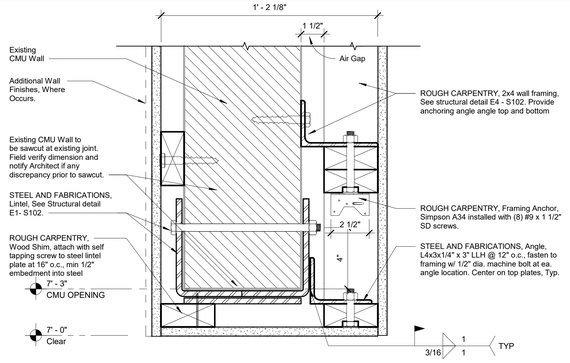
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Date: 03/31/2023	Reviewed By: -		

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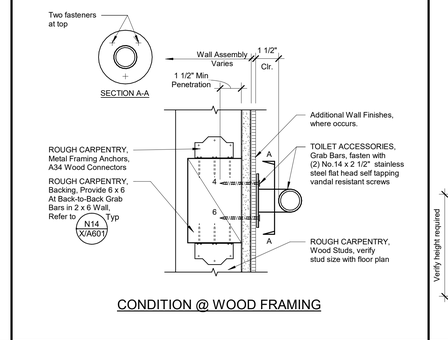
N1
3" = 1'-0"

ROUGH CARPENTRY, Condition at (E) Column



N6
3" = 1'-0"

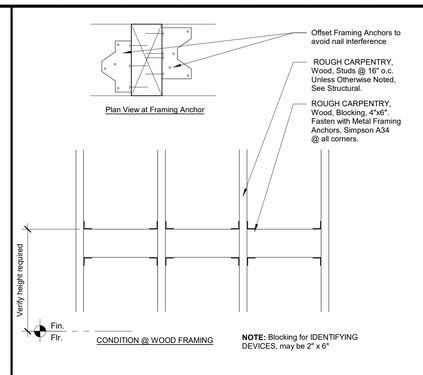
ROUGH CARPENTRY, Soffit Framing, CMU Wall



CONDITION @ WOOD FRAMING

N11
3" = 1'-0"

TOILET ACCESSORIES, Grab Bars



NOTE: Blocking for IDENTIFYING DEVICES, may be 2" x 6"

N14
1" = 1'-0"

ROUGH CARPENTRY , Backing Detail

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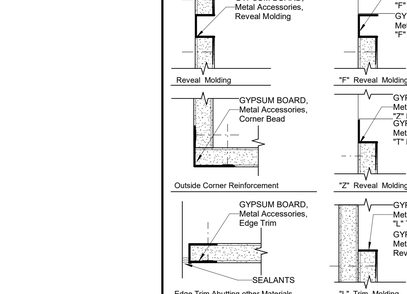
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NOTES

1. GYPSUM BOARD, Metal Accessories, Refer to Detail A7-X/A601

N18
No Scale

Interior Detail Notes



J6
3" = 1'-0"

ROUGH CARPENTRY, Jamb Framing at New CMU opening

E6
3" = 1'-0"

ROUGH CARPENTRY, Jamb Framing at New CMU opening

E11
1 1/2" = 1'-0"

IDENTIFYING DEVICES, Signage Locations and Dimensions

NOTE:
1. Details Shall apply at Similar GYPSUM BOARD Accessories and Trim not specifically shown.
2. Reveals and Moldings shall be provided with Factory Fabricated Intersections, Inside Corners, Outside Corners and End Caps

A7
6" = 1'-0"

GYPSUM BOARD, Metal Accessories

A11
1/4" = 1'-0"

TOILET ACCESSORIES AND PLUMBING FIXTURES,

THOMAS JEFFERSON M. S. KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT Project
Madera, CA

TYPICAL INFORMATION
INTERIOR DETAILS
Drawing

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Architect

No.	Revision/Submission	Date

Revision

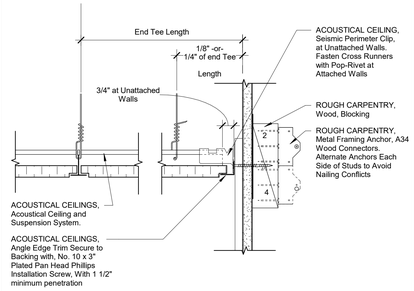
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Project Number: 2123
Date: 03/31/2023

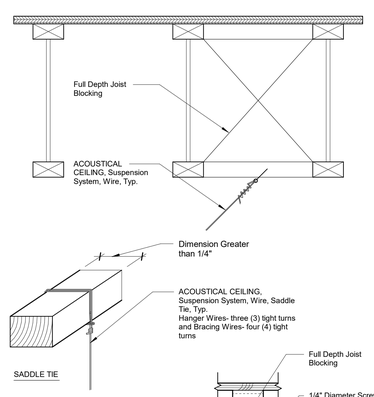
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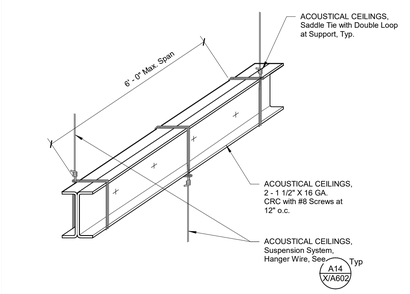
N11
3" = 1'-0"

ACOUSTICAL CEILINGS,
Perimeter Ceiling Detail



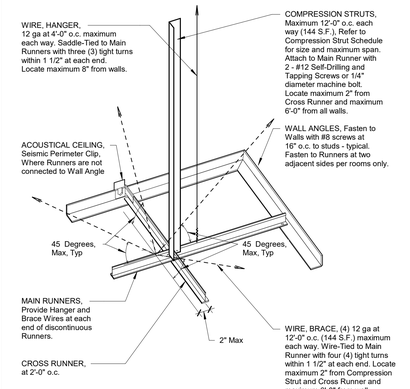
A11
3" = 1'-0"

ACOUSTICAL CEILINGS, SUSP. SYSTEM,
Hanger & Bracing (Splay) Wire Attachments



N7
3" = 1'-0"

ACOUSTICAL CEILINGS,
Suspended Ceiling Trapeze Support



NOTES:

1. Splices in Slotted Wall Angles shall be with minimum 12" lap and fasten with (2) #8 screws at each flange.
2. FIRE RATED CEILINGS: Wire Brace and Compression Strut Assemblies are required for each 96 square feet and the first assembly shall be located maximum 4'-0" from each wall.
3. Refer to the Division of the State Architect (DSA) Interpretations of Regulations (I.R.) Manual, IR 25-2.13 for Supplemental Acoustical Ceiling Suspension System Information. A copy of the manual can be obtained through DSA. (916) 937-3700 or www.dsa.ca.gov.
4. Refer to CBC Section 1616A.1.20, the design and installation to be in compliance with ASTM C635, C636, and E580, Section 5, as amended by 2013 CBC Section 1616A.1.20 .

LAY-IN TILE CONDITION

A14
3" = 1'-0"

ACOUSTICAL CEILINGS,
Suspension System

DSA File No.:
20-30

DSA Application No.:
02-120517

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MADERA UNIFIED SCHOOL DISTRICT
Madera, CA
Project

TYPICAL INFORMATION
INTERIOR DETAILS
Drawing

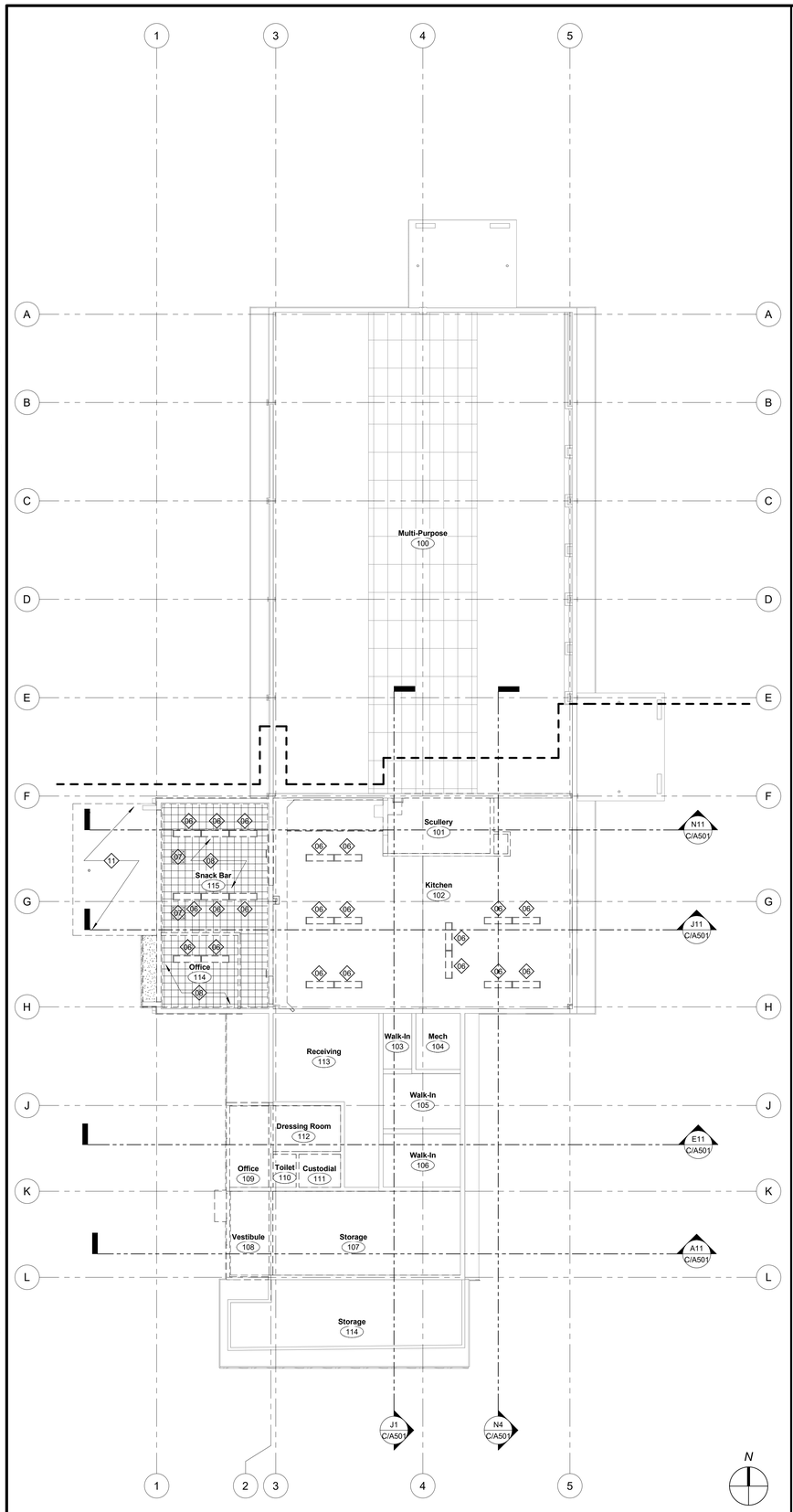
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Project Number: 2123	Checked By: -	X/A602
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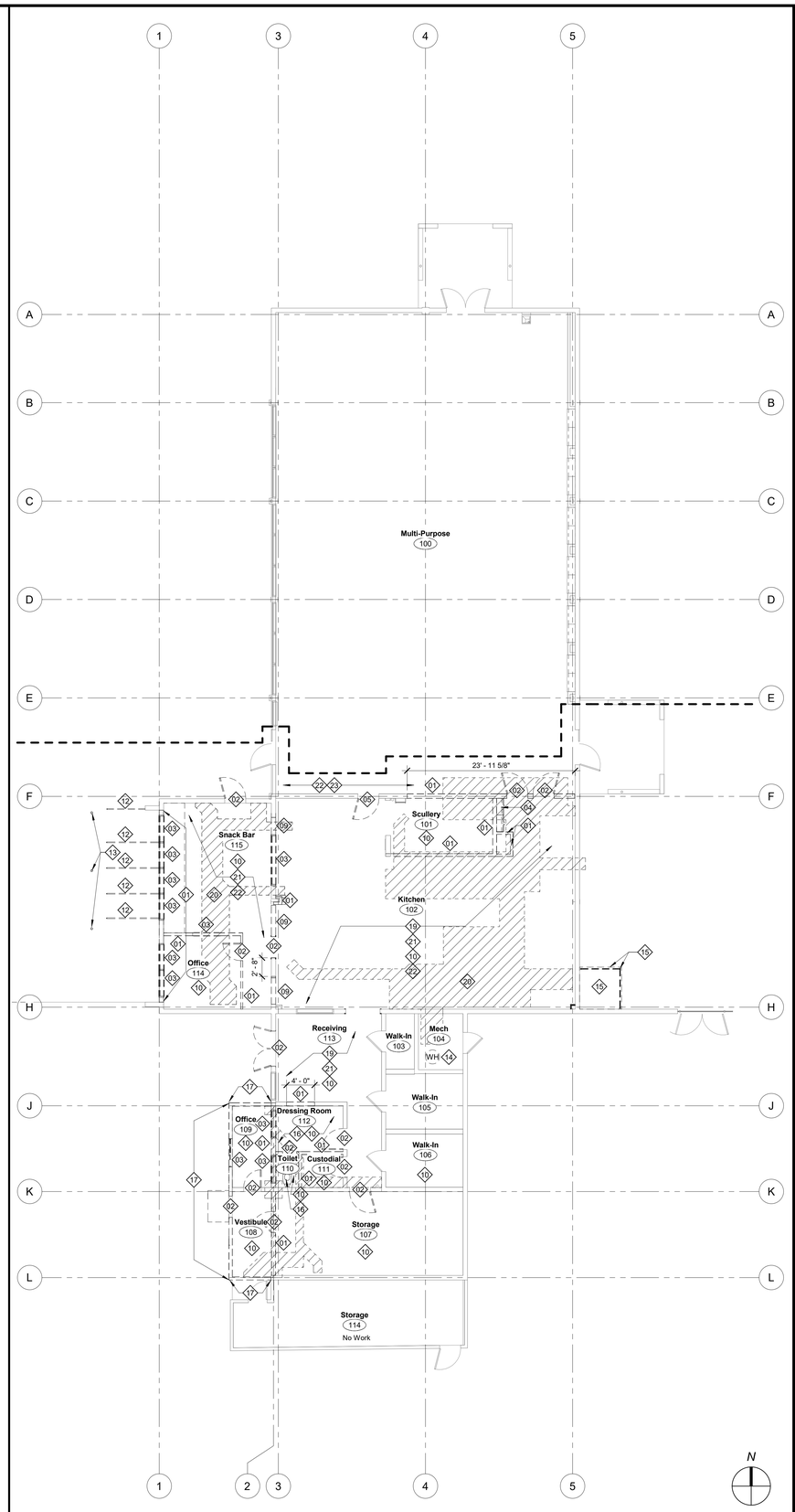


A1

1/8" = 1'-0"

Demolition Reflected Ceiling Plan

Refer to E18 for Legend.



A11

1/8" = 1'-0"

Demolition Floor Plan

Refer to E18 for Legend.

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20-30

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SYMBOLS

- Limit of Work
- Existing Wall
- Remove Existing Wall
- Remove Existing Building Item (See Demolition Note, Plumbing, Mechanical, and Electrical Drawings)
- Room name 101 — Room Designation
- 10 — Demolition Note Symbol
- Extent of Sawcut Concrete Slab and underground piping. Coordinate with plumbing plans.
- Extent of removal of Existing Glue-Up Ceiling Tile System

NOTES

1. See Specifications section, SELECTIVE DEMOLITION, See Plumbing, Mechanical, and Electrical Drawings and Specifications
2. Remove materials, equipment, and finishes indicated by demolition key notes
3. All Concrete removed shall be within sawcut lines or Existing expansion/ control joint lines.
4. Coordinate removal of door hardware with HARDWARE in the specifications.
5. Where Demolition work is indicated, contractor shall remove and reinstall any or all items necessary for installation of new work. Existing area affected by demolition work shall be patched and repaired to match Existing construction.
6. Any damage resulting from the modernization activity shall be corrected at no additional expense to the owner and all surfaces cleaned and readied to receive new work.
7. Remove, cut, and patch work in a manner to minimize damage and to provide means of restoring products and finishes to original condition.
8. Where new work abuts or aligns with Existing, make a smooth and even transition. Patch work shall match Existing adjacent work in texture and appearance.
9. When Finished surfaces are cut so that a smooth transition with new work is not possible, terminate Existing surfaces along a straight line at a natural line of division and make recommendation to the architect.

DEMOLITION NOTES

01 SELECTIVE DEMOLITION, Remove and Dispose of Wall/Portion of Existing wall. Refer to Plan for extent of work.
02 SELECTIVE DEMOLITION, Remove and Dispose of Existing door and frame
03 SELECTIVE DEMOLITION, Remove and Dispose of Existing Windows and Frames
04 SELECTIVE DEMOLITION, Remove and Dispose of Existing Casework
05 SELECTIVE DEMOLITION, Remove and Reinstall Existing Door. Door Swing to change direction. Refer to Floor Plan.
06 SELECTIVE DEMOLITION, Remove and Dispose of Existing Light Fixture, Coordinate with Electrical Drawings
07 SELECTIVE DEMOLITION, Remove and Dispose of Existing HVAC Grilles
08 SELECTIVE DEMOLITION, Remove and Dispose of Existing Glue-Up Ceiling Tile System
09 SELECTIVE DEMOLITION, Remove and Dispose of Portion of Concrete Masonry Unit Wall, Saw Cut for 7'-0" High Opening and course below floor slab
10 SELECTIVE DEMOLITION, Remove and Dispose of Existing Flooring and base
11 SELECTIVE DEMOLITION, Remove and dispose of existing plant on shade covering, wood beams, and sheathing
12 SELECTIVE DEMOLITION, Remove and dispose of Existing Pipe Railing
13 SELECTIVE DEMOLITION, Remove and dispose of Existing Steel Column.
14 SELECTIVE DEMOLITION, Remove and dispose of Existing Water Heater , See plumbing Plans.
15 SELECTIVE DEMOLITION, Remove and dispose of Existing Compressor , See plumbing Plans.
16 SELECTIVE DEMOLITION, Remove and dispose of existing toilet, sink, and toilet accessories
17 SELECTIVE DEMOLITION, Remove and dispose of Exterior Wood siding to expose Wood Studs.
19 SELECTIVE DEMOLITION, Remove and dispose of existing gas, air, and water piping. See Plumbing, Mechanical.
20 SELECTIVE DEMOLITION, Sawcut and dispose of Concrete Slab and underground piping. Coordinate with plumbing plans
21 SELECTIVE DEMOLITION, Remove and salvage Somttrol control box and sensors for reinstallation. See Electrical
22 SELECTIVE DEMOLITION, Remove and dispose of existing Wall Protection.
23 SELECTIVE DEMOLITION, Remove and dispose of wall acoustical panels and frame.
24 SELECTIVE DEMOLITION, Remove and dispose of soffit and soffit framing and ductwork. Infill wall registers in (E) Wall

E18

No Scale

Demolition Plan Legend

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BUILDING C
DEMOLITION FLOOR AND CEILING PLANS

Drawing

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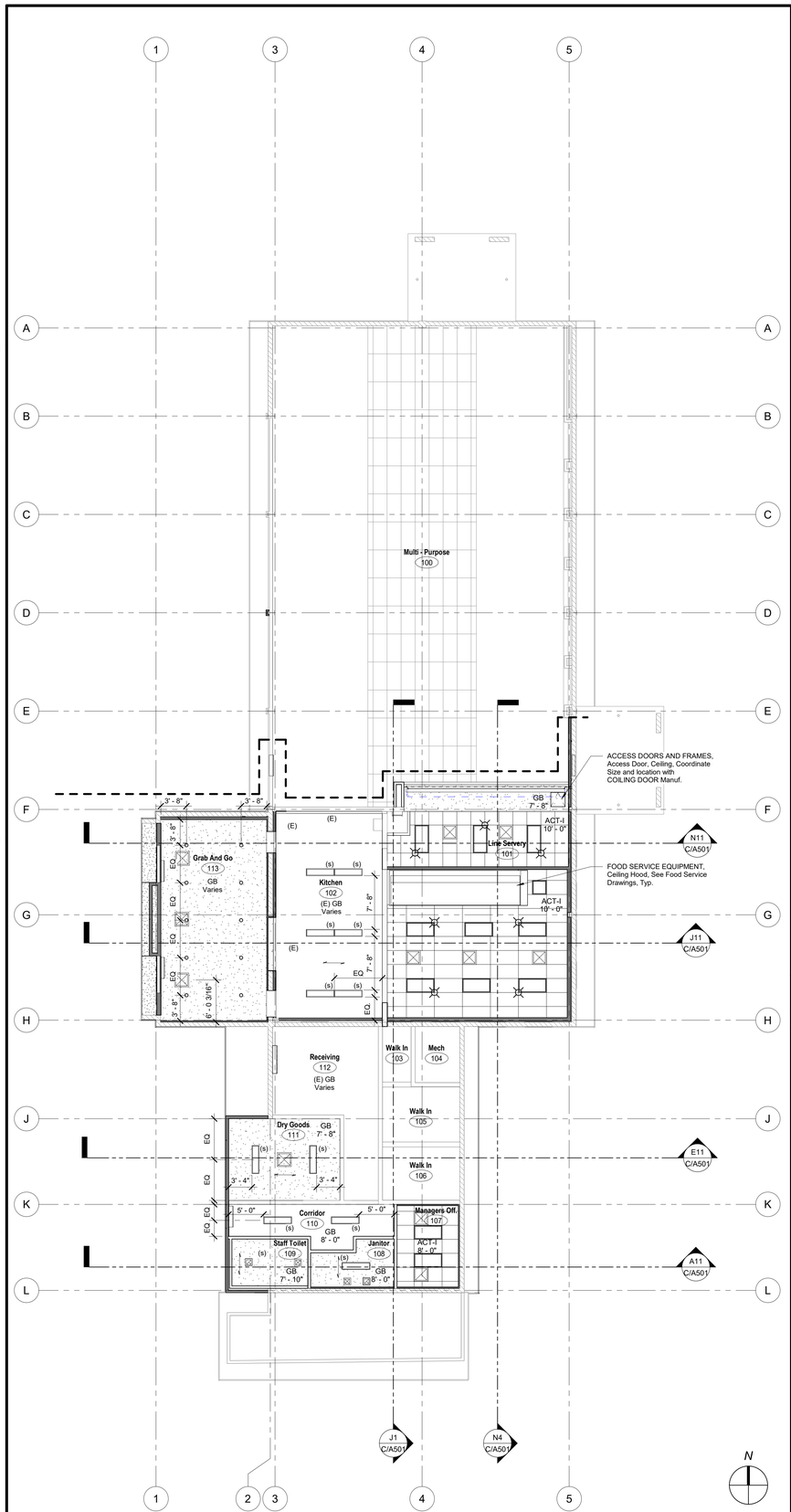
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SYMBOLS

- Limit of Work
- MECHANICAL, Air Supply Grill
- MECHANICAL, Air Return Grill
- MECHANICAL, Strip Grill
- MECHANICAL, Exhaust Fan
- OD — PLUMBING, Overflow Drain
- ACOUSTICAL CEILINGS, Suspended Ceiling Compression Strut/ Splay Wire location. See A14 X/A602 Typ
- (RA) — ROOF ACCESSORIES, Roof Hatch
- ELECTRICAL, Light Fixture, Recessed. Unless Noted Otherwise. (p) = Pendant Mounted (s) = Surface Mounted
- (HD) — ELECTRICAL, Fire Alarm Device, Heat Detector
- (SD) — ELECTRICAL, Fire Alarm Device, Smoke Detector
- (S) — ELECTRICAL, Speaker
- CEMENT PLASTER, Cement Plaster System
- Existing Gypsum Board
- GYPSUM BOARD
- ACOUSTICAL CEILINGS, Refer to Plan for Type.
- ACCESS DOORS AND FRAMES, Access Doors, Ceiling (20" X 30"), UNO
- Reference Point

ABBREVIATIONS

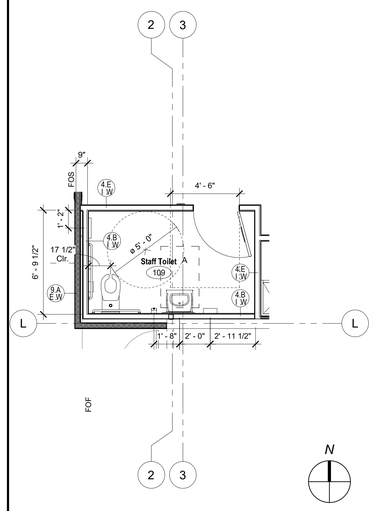
ACT	ACOUSTICAL CEILINGS, Tile, Suspended, Unless Noted Otherwise.
CLG	Ceiling
CP	CEMENT PLASTER, System
(E)	Existing
GB	GYPSUM BOARD, Type 'X', Unless Noted Otherwise.
HT	Height
MD	METAL DECK
TYP	Typical
SIM	Similar
OH	Opposite hand
DS	Downspout
OD	Overflow Drain
UNO	Unless Noted Otherwise

NOTES

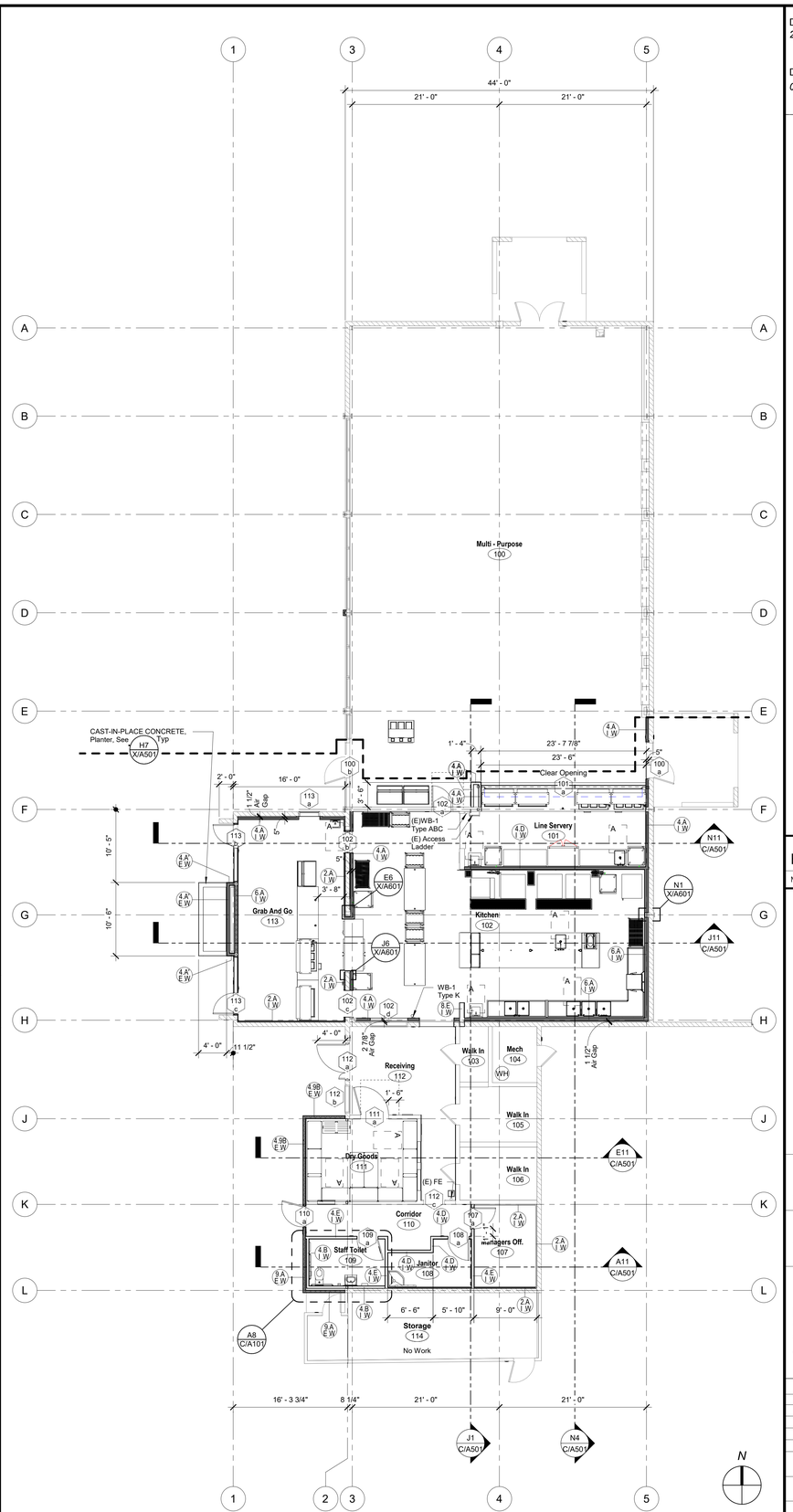
1. ACOUSTICAL CEILINGS, For typical suspended ceiling support and bracing, Refer to A11 X/A602 Typ A14 X/A602 Typ
2. Gypsum Board Ceilings Noted As "CLG HT Varies", Gypsum Board is attached to bottom side of framing/ joists, UNO
3. Ceiling Heights indicated are above Finish Floor at each floor level, UNO.
4. See Structural for framing of soffits and ceilings
5. Single Lights or Single Rows of Lights at Soffits/ Ceilings shall be centered, UNO.

A1	Reflected Ceiling Plan
1/8" = 1'-0"	Refer to F18 for Legend.

E18	Reflected Ceiling Legend
No Scale	



A8	Enlarged Floor Plan - Restrooms
1/4" = 1'-0"	



A11	Floor Plan
1/8" = 1'-0"	Refer to H18 for Legend.

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20-30

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SYMBOLS

- Limit of Work
- (E) Concrete Masonry Unit Wall. 8" wide unless otherwise noted.
- (E) Wall to remain.
- Stud Wall, Studs and Interior Wall materials continuous from floor to underside of floor or roof deck. Studs at 16" o.c. unless otherwise noted. Interior Wall material shall include Batt Insulation, Sound Deadening Board, Plywood Sheathing, Gypsum Board, and Cement Plaster/ Ceramic Tile setting bed where occurs.
- Stud Wall. Studs and finish material continuous from floor to minimum 6" above ceiling. Studs to be braced to underside of roof framing or deck if not required to be continuous to roof framing or deck. Studs at 16"o.c. Unless Otherwise Noted. See Structural for bracing and extent of Structural Sheathing.
- 1 Hr. Corridor Wall - Fire Partition (1 Hr. Fire Resistive Construction, 20 Min. Door Assemblies, 45 Min. Window Assemblies)
- 0 — Reference Grid
- 101 / a — Opening Group No. Refer to Door or Window Opening Schedules
- Room name / 101 — Room Designation
- A / 8 - 8 — Wall Assembly Symbols. Refer to Sheet X/A101
- Reference Point

ABBREVIATIONS

FF	Face of Finish
FOC	Face of Concrete
FD	Floor Drain
FOM	Face of Masonry
FOS	Face of Stud
FS	Floor Sink
HB	Hose Bib
MO	Masonry Opening
UNO	Unless Noted Otherwise
RO	Rough Opening
Typ.	Typical
Sim.	Similar
OH	Opposite Hand

NOTES

1. All Exterior Walls shall be Wall Assembly Type 4.A/E.W Unless Noted Otherwise.
2. All Interior Walls shall be Wall Assembly Type 4.A/I.W Unless Noted Otherwise.
3. All Dimensions are to Face of Stud (FOS) or Center Line, Unless Noted Otherwise.
4. All Elevation Dimensions are above Finish Floor at each floor level, Unless Noted Otherwise.
5. Dimensions noted as "+/-" are nominal.

H18	Floor Plan Legend
No Scale	

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FLOOR AND REFLECTED CEILING PLAN
Drawing

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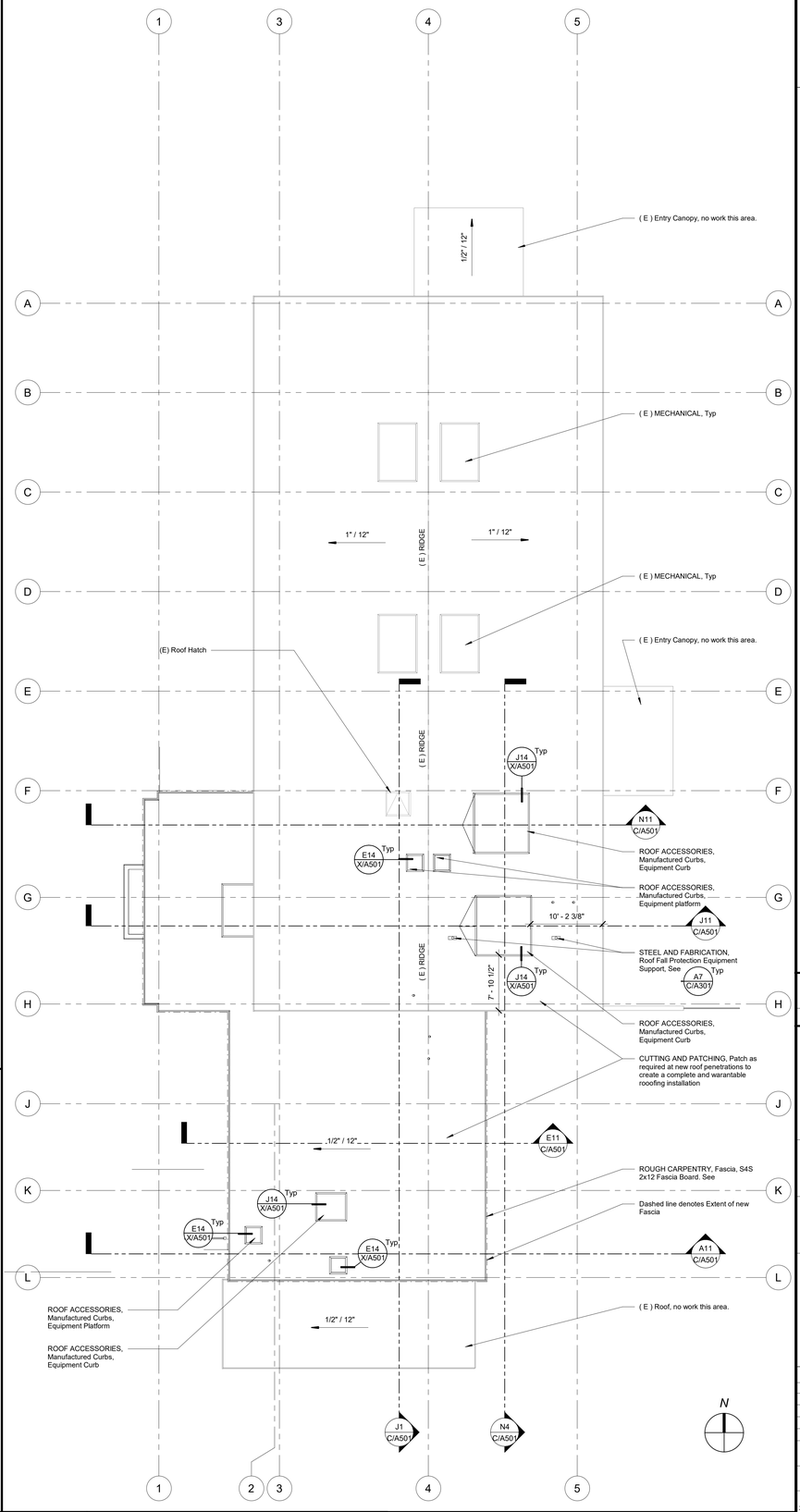
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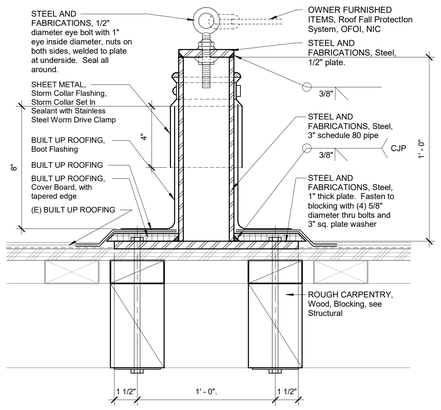
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SYMBOLS

	ROOF ACCESSORIES, Roof Hatch
PV	PLUMBING, Vent
+14'-6" TOP	Elevation above finish floor
Slope (DN)	Direction of slope
	Line of Wall below
	Reference Point

ABBREVIATIONS

TOP	Top of Parapet Framing
FO Frmg.	Face of Framing
OD	PLUMBING, Overflow Drain
TOB	Top of Parapet Brace Framing
TOF	Top of Framing
RD	PLUMBING, Roof Drain
TOM	Top of Masonry
OH	Opposite Hand
DS	Downspout
FOS	Face of Stud
TOR	Top of Roof
TOS	Top of Steel
Sim.	Similar
Typ.	Typical

NOTES

1. Refer to Plumbing, Mechanical, Telecommunications, Food Service, and Electrical for all roof penetrations and roof mounted equipment. For appropriate details, Refer to Drawing X/A501, Unless Otherwise Noted.
2. Roof Slope and Crickets shall be constructed with tapered insulation to achieve slope as required.
3. When indicated, SHEET METAL, Reglet and Counter Flashing occurs at the Back Side and/or the Front Side of Parapet Walls. At each roof level such Reglet elevations shall be determined based upon the details of construction, and be installed at the same horizontal level.

F18 — Roof Plan Legend
No Scale

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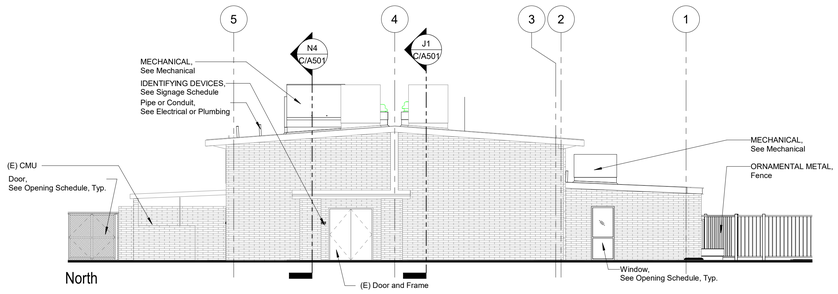
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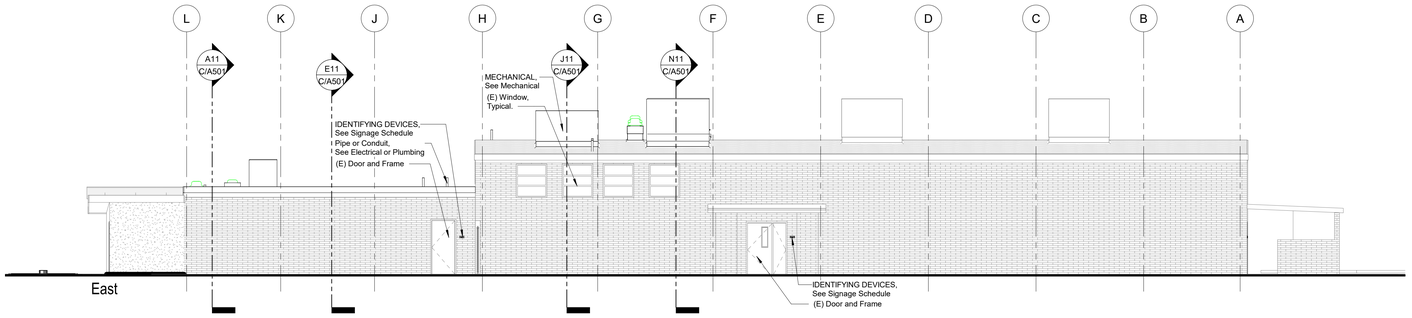
A7 — STEEL AND FABRICATION, Roof Fall Protection Equipment Support
3" = 1'-0"

A11 — Roof Plan
1/8" = 1'-0"
Refer to F18 for Legend Symbols, Abbreviations and Notes

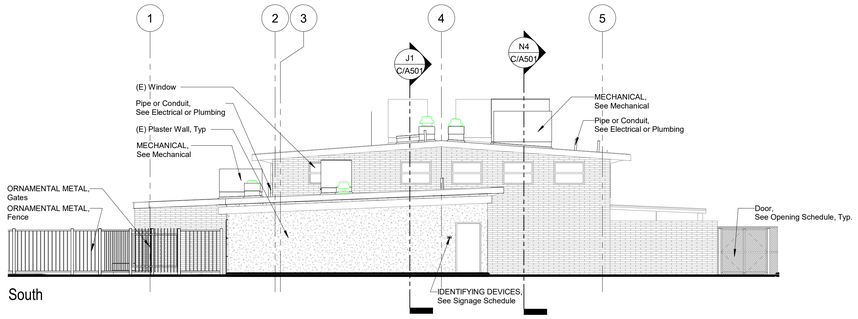
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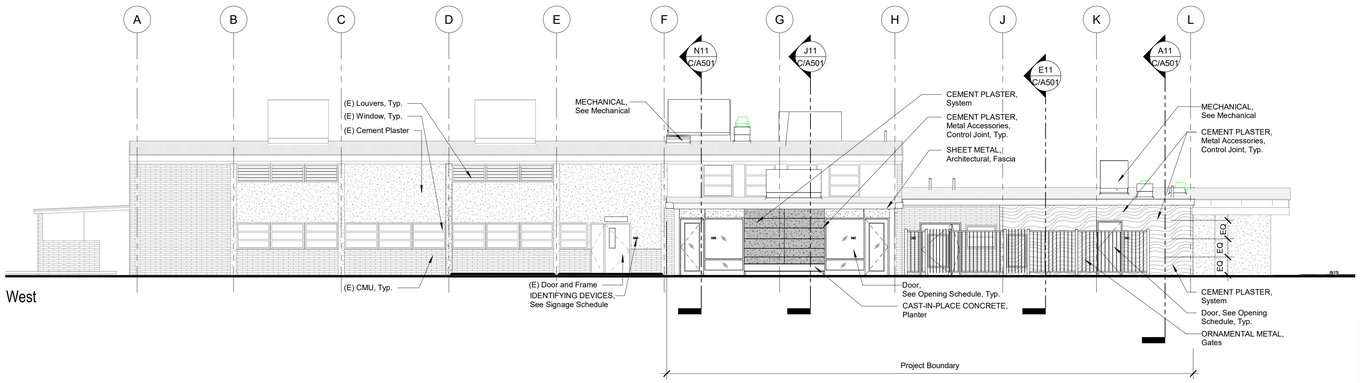
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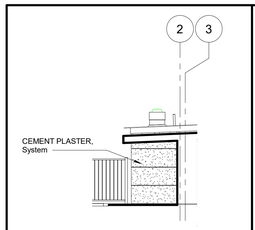
East

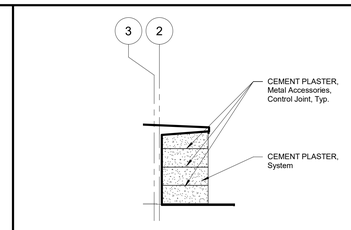


South



West





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20-30

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Agency Approval

Existing Plaster
Existing CMU
New Plaster

EXTERIOR COLOR LEGEND

Plaster Colors

PC-1 — Cream
Unless Noted Otherwise

PC-2 — Accent 1, Blue

Plaster walls perpendicular to elevation, not shown elsewhere, shall be the same color as face plane, Unless Noted Otherwise.

Metal Colors

MC-1 — Cream
Unless Noted Otherwise

MC-2 — Accent 1, Blue

All Hollow Metal Frames to be match adjacent wall.
All Steel and Fabrications to match adjacent wall, UNO.
All METAL DECKING to be MC-1, UNO.
All Metal columns to be MC-1, UNO.

Door Colors

All Doors and Frames to match adjacent surface, UNO.

Color Notes

1. XX-X Color Designation.
2. Parapet caps to match color of wall below, UNO.
3. Soffits to match color of outer face wall, UNO.

Outer Face Wall
Soffit
Inner Face Wall

4. Horizontal soffits adjacent to fascia board shall be PC-1.

Fascia Board
PC-1

SYMBOLS

H — ELECTRICAL, Horn
S — ELECTRICAL, Speaker
ELECTRICAL, Outlet
ELECTRICAL, Light Fixture, +10'-0" B.O. Fixture UNO
Glass

ABBREVIATIONS

AFF	Above Finished Floor
BO	Bottom of
CJ	Control Joint
DS	Downspout
EJ	Expansion Joint
HB	PLUMBING, Hose Bibb.
OH	Opposite Hand
Sim.	Similar
TO	Top of
TOM	Top of Masonry
TOP	Top of Parapet Framing
TOF	Top of Framing
TOR	Top of Roof
TOS	Top of Steel
TPL	Top of Plate
Typ.	Typical
UNO	Unless Noted Otherwise

NOTES

1. CEMENT PLASTER, Cement Plaster System, Accessories, Refer to Detail H1 Typ X/A501
2. Refer to Specifications Section Appendix "C" Exterior Color Schedule.
3. Refer to Exterior Finish Schedule on Sheet X/A201.

F18 — Exterior Elevations Legend
No Scale

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Reviewed By: -

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Project Number: 2123
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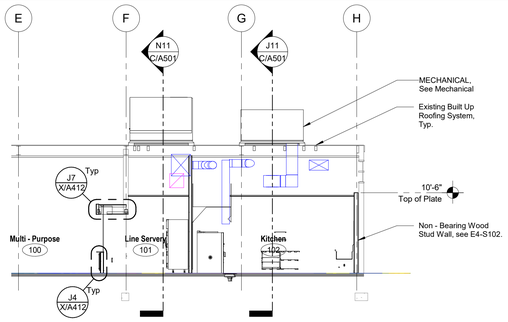
C/A401

A1 — Exterior Elevations
1/8" = 1'-0"

A13 — Partial South
1/8" = 1'-0"

A15 — Partial North
1/8" = 1'-0"

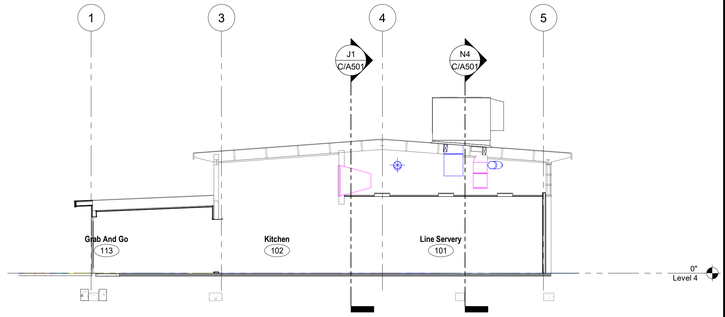
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N4

1/8" = 1'-0"

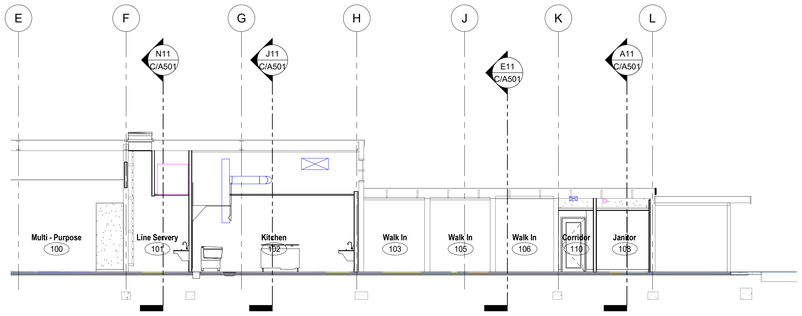
Wall Section



N11

1/8" = 1'-0"

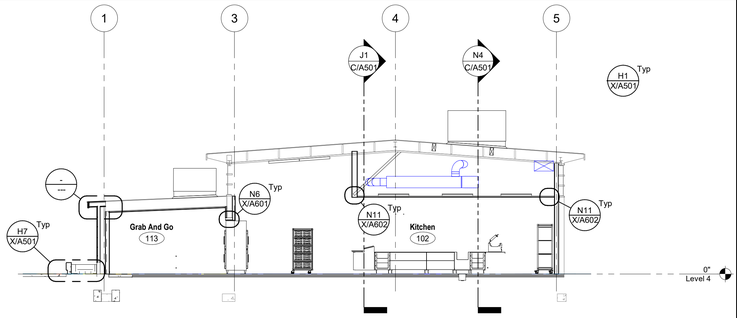
Wall Section



J1

1/8" = 1'-0"

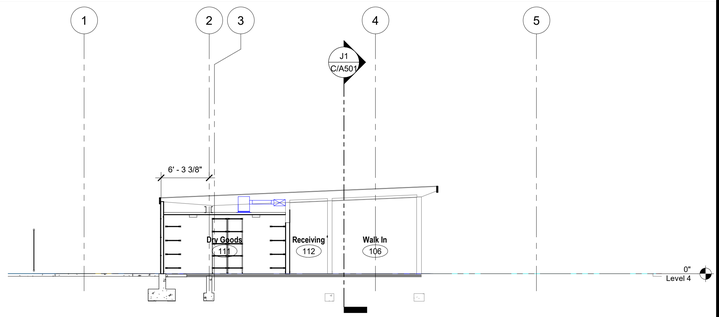
Wall Section



J11

1/8" = 1'-0"

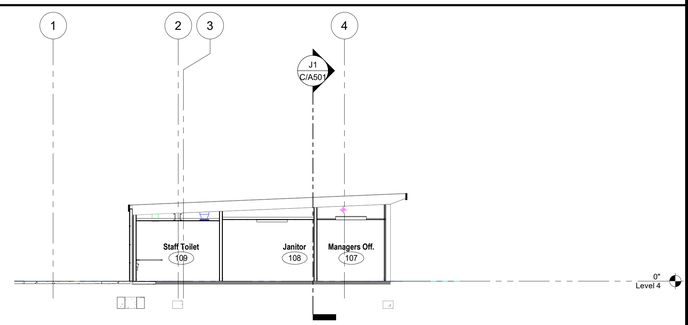
Wall Section



E11

1/8" = 1'-0"

Wall Section



A11

1/8" = 1'-0"

Wall Section

DSA File No.:
20-30

DSA Application No.:
02-120517

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120517 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

Agency Approval

SYMBOLS

0 — Reference Grid

Room name
101 — Room Designation

NOTES

1. CEMENT PLASTER, Accessories, Refer to H1 X/A501 Typ

K18

No Scale

Sections Legend

THOMAS JEFFERSON M. S. KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
Madera, CA

Project

BUILDING C
BUILDING SECTIONS

Drawing

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LICENSED ARCHITECT ANTONIO J. AVILA No. C-29235 REG. 10-31-23 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

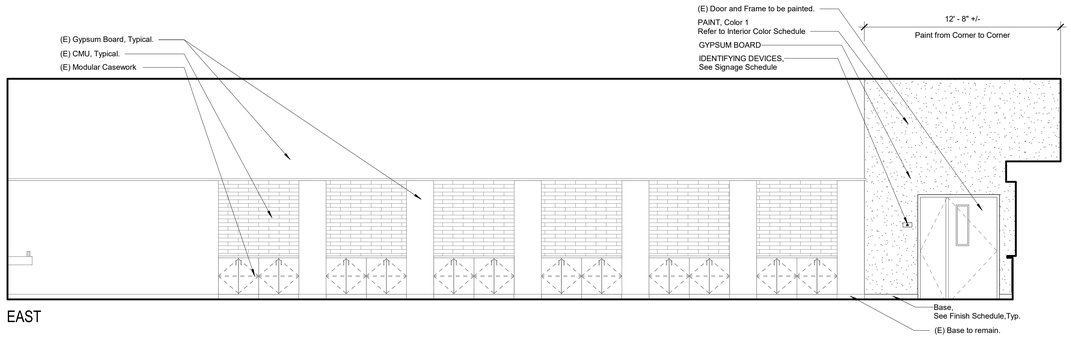
Revision

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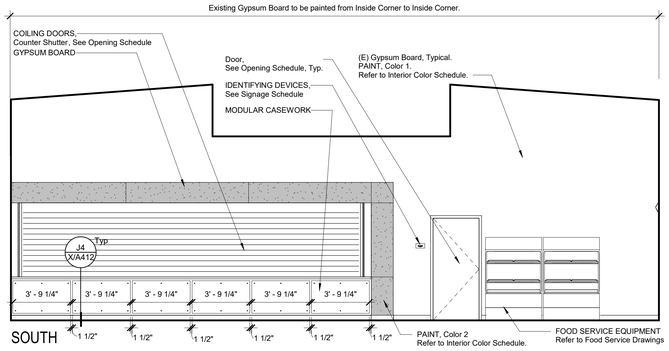
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		Drawn By:	-
Project Number:	2123	Checked By:	-
Date:	03/31/2023	Reviewed By:	-

C/A501

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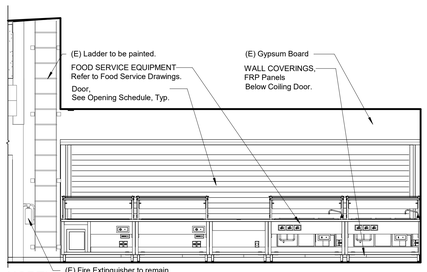


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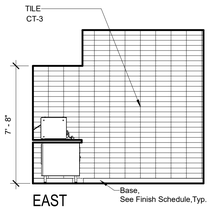


SOUTH

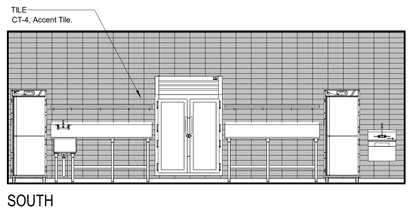
100 Multi - Purpose



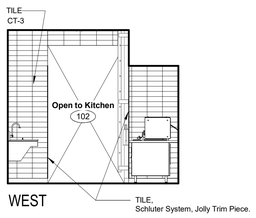
NORTH



EAST

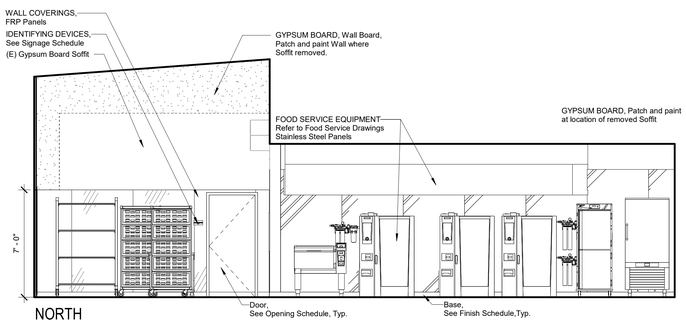


SOUTH

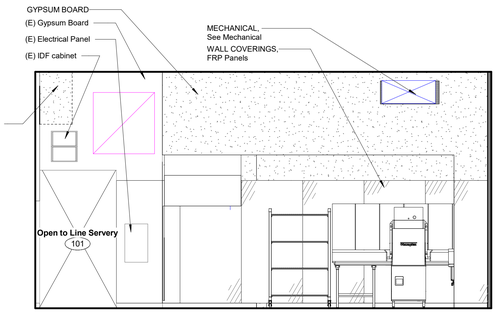


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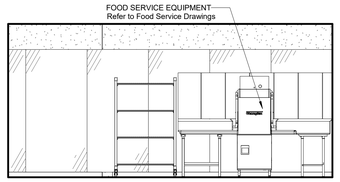
101 Line Servery



NORTH

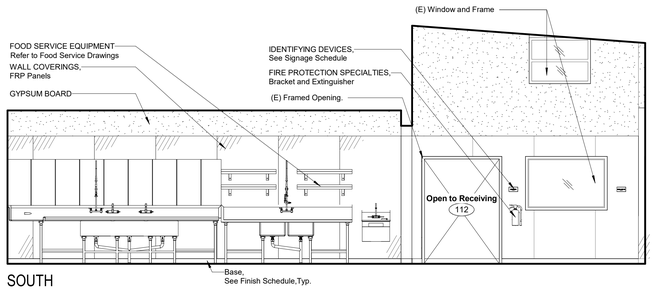


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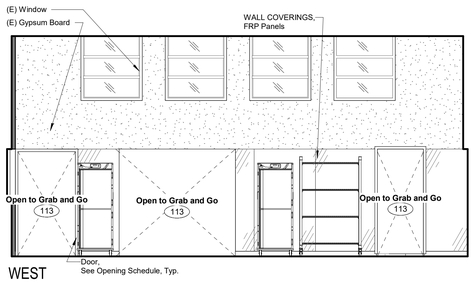


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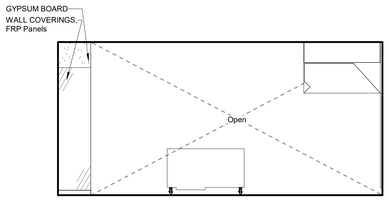
102 Kitchen



SOUTH



WEST



WEST CONTINUED

102 Kitchen
(Continued)

3/28/2023 2:47:48 PM
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A1	Interior Elevations
1/4" = 1'-0"	Refer to F18 for Legend Symbols, Abbreviations and Notes

DSA File No.:
20-30

DSA Application No.:
02-120517

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120517 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

Agency Approval

SYMBOLS

- a / ### — Cabinet Group No. Refer to Modular Casework Schedule and Lab Casework Schedule.
- FEC — FIRE PROTECTION SPECIALTIES, Fire Extinguisher Cabinet, Top of Cabinet @ +5'-0", Unless Noted Otherwise. Provide Fire Rated Cabinet at Rated Walls
- FEBC — FIRE PROTECTION SPECIALTIES, Fire Extinguisher/Blanket Cabinet, Top of Cabinet @ +5'-0", Unless Noted Otherwise. Provide Fire Rated Cabinet at Rated Walls. Provide Surface Mounted Cabinet at Rated Walls Where Stud Depth is Less than 6" and at Masonry Walls.
- ELECTRICAL, Speaker @ +7'-6" to center of device, Unless Noted Otherwise.
- ELECTRICAL, Clock @ +7'-6" to center of device, Unless Noted Otherwise.
- ELECTRICAL, Clock/Speaker @ +7'-6" to center of device, Unless Noted Otherwise.
- ELECTRICAL, Outlet
- ELECTRICAL, Light Switch
- $_{FA}$ ELECTRICAL, Fire Alarm Device
- $_{V}$ ELECTRICAL, Volume Control
- $_{TV}$ ELECTRICAL, Television Outlet
- $_{T}$ MECHANICAL, Thermostat
- $_{HB}$ PLUMBING, Hose Bib
- $_{D}$ ELECTRICAL, Data Outlet
- $_{M}$ ELECTRICAL, Microphone Outlet
- $_{IS}$ ELECTRICAL, Intrusion Sensor
- $_{MS}$ ELECTRICAL, Motion Sensor
- ELECTRICAL, Telephone Outlet
- GLASS
- WALL COVERING, FRP Panels
- Existing Gypsum Board
- GYPSUM BOARD

ABBREVIATIONS

Gl.	Glass
KS	Knee Space
OH	Opposite Hand
Typ.	Typical
Sim.	Similar
Dia.	Diameter
UNO	Unless Noted Otherwise

NOTES

1. All Details, Materials and Finishes shall be considered typical for all similar conditions Unless Noted Otherwise.
2. Refer to Plumbing, Mechanical, Telecommunications, Food Service, and Electrical for all wall mounted devices and coordinate location and heights with Architectural (ie. casework, equipment, etc.)
3. Locate and mount TOILET ACCESSORIES and PLUMBING per detail A11/X/A601 Typ Unless Noted Otherwise.
4. Provide backing at all TOILET ACCESSORIES, TOILET PARTITIONS, and IDENTIFYING DEVICES per detail N14/X/A601 Typ Unless Noted Otherwise.
5. Provide Backing for TOILET ACCESSORIES, Grab Bars per detail N11/X/A601 Typ
6. Locate and mount IDENTIFYING DEVICES per detail E11/X/A601 Typ Unless Noted Otherwise.
7. Provide backing at all MODULAR CASEWORK and/or LAB CASEWORK AND EQUIPMENT per detail N14/X/A601 Typ
8. Refer to Interior Color Schedule for Information regarding Materials, Color and Patterns.

F18	Interior Elevation legend
No Scale	

THOMAS JEFFERSON M. S. KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
Madera, CA
Project

BUILDING C
INTERIOR ELEVATIONS- ROOMS 100 - 102
Drawing

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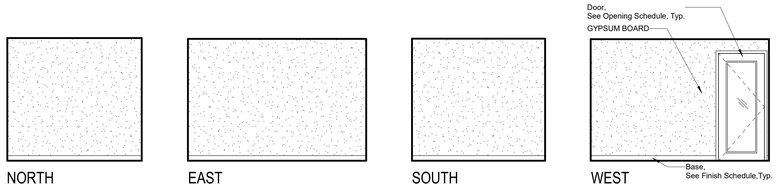
LICENSED ARCHITECT ANTONIO J. AVILA No. C26235 Exp. 10-31-23 STATE OF CALIFORNIA

Architect

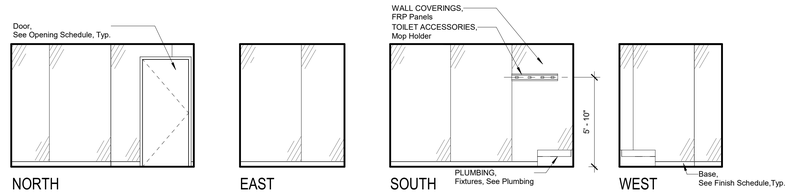
No.	Revision/Submission	Date

Revision

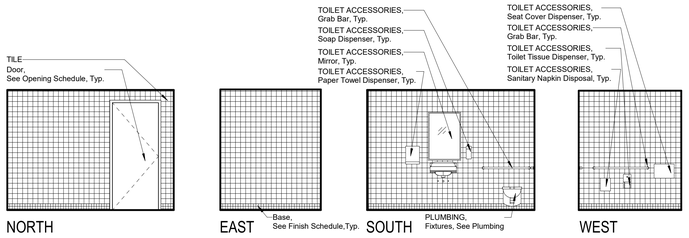
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Scale:	1/4" = 1'-0"	Drawn By: -	C/A601
Project Number:	2123	Checked By: -	
Date:	03/31/2023	Reviewed By: -	



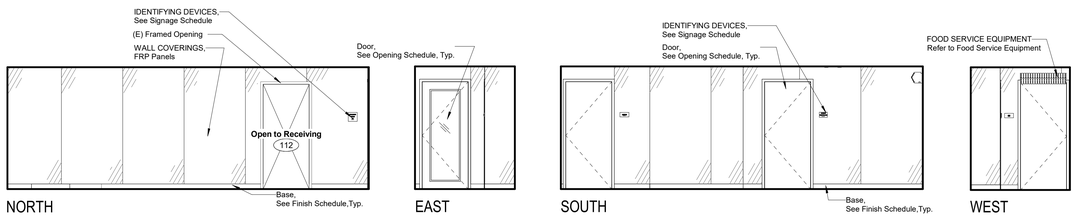
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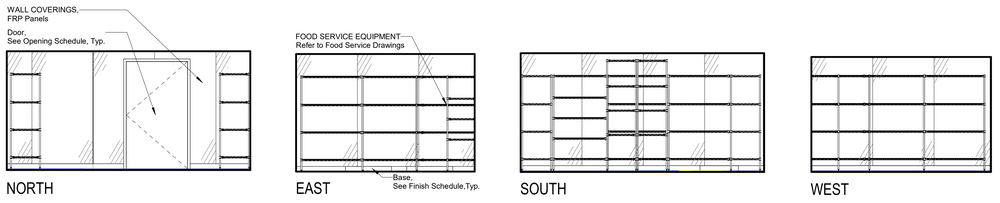
108 Janitor



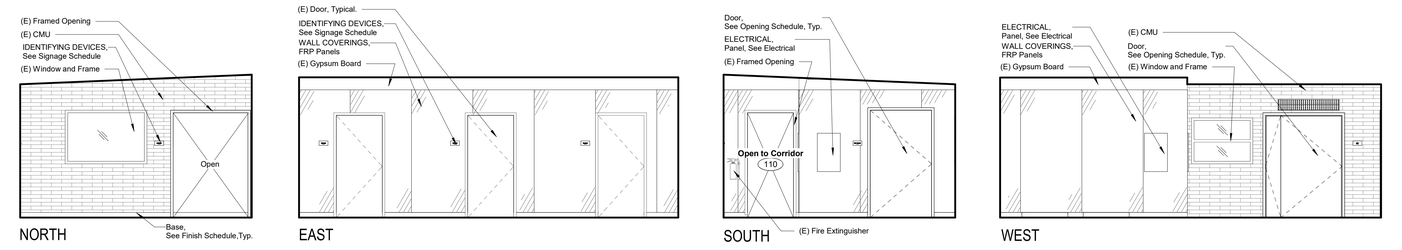
109 Staff Toilet



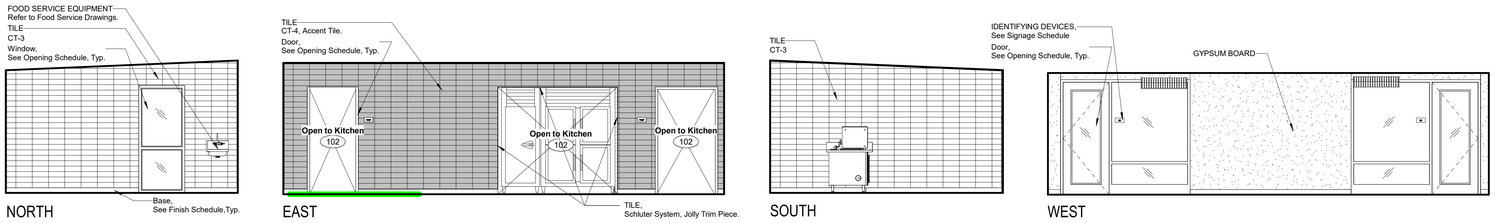
110 Corridor



111 Dry Goods



112 Receiving



113 Grab And Go

3/28/2023 2:48:03 PM
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A1 | Interior Elevations

Refer to F18 for Legend Symbols, Abbreviations and Notes

DSA File No.:
20-30

DSA Application No.:
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DATE: 04/25/2023

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SYMBOLS

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- HB — PLUMBING, Hose Bib
- WALL COVERING, FRP Panels
- D — ELECTRICAL, Data Outlet
- M — ELECTRICAL, Microphone Outlet
- IS — ELECTRICAL, Intrusion Sensor
- MS — ELECTRICAL, Motion Sensor
- ELECTRICAL, Telephone Outlet
- GLASS
- Existing Gypsum Board
- GYPSUM BOARD

ABBREVIATIONS

Gl.	Glass
KS	Knee Space
OH	Opposite Hand
Typ.	Typical
Sim.	Similar
Dia.	Diameter
UNO	Unless Noted Otherwise

NOTES

1. All Details, Materials and Finishes shall be considered typical for all similar conditions Unless Noted Otherwise.
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6. Locate and mount IDENTIFYING DEVICES per detail Unless Noted Otherwise. (E11 / X/A601 Typ)
7. Provide backing at all MODULAR CASEWORK and/or LAB CASEWORK AND EQUIPMENT per detail (N14 / X/A601 Typ)
8. Refer to Interior Color Schedule for Information regarding Materials, Color and Patterns.

F18 | Interior Elevation legend

No Scale

Consultant

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Architect

THOMAS JEFFERSON M. S. KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
Madera, CA

Project

BUILDING C
INTERIOR ELEVATIONS - ROOMS 107 - 113

Drawing

No.	Revision/Submission	Date

Revision

Designed By: -
Drawn By: -
Checked By: -
Reviewed By: -

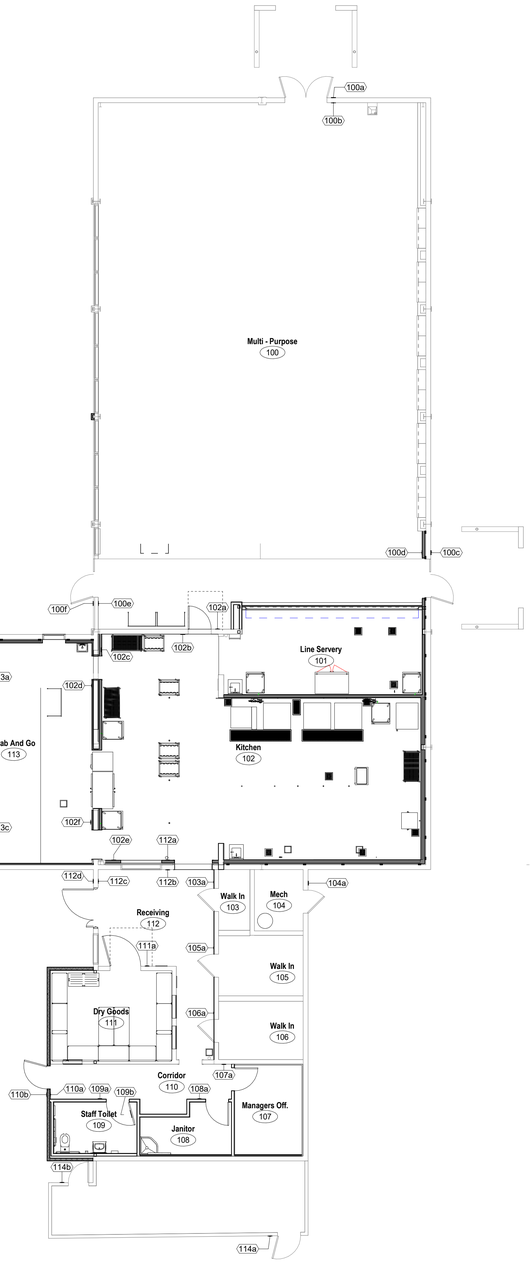
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Scale: 1/4" = 1'-0"
Project Number: 2123
Date: 03/31/2023

C/A602

Signage Schedule

Building	Sign Mark	Sign Type	Sign Material	Sign Copy Line 1	Sign Copy Line 2	Sign Copy Line 3	Mtg Height	Mtg Cond	Remarks
C	100a	6a	A	MULTIPURPOSE	N/A	N/A	5' - 0"	3	-
C	100b	6a	A	EXIT	N/A	N/A	5' - 0"	3	-
C	100c	6a	A	MULTIPURPOSE	N/A	N/A	5' - 0"	3	-
C	100d	6a	A	EXIT	N/A	N/A	5' - 0"	2	-
C	100e	6a	A	EXIT	N/A	N/A	5' - 0"	1	-
C	100f	6a	A	MULTIPURPOSE	N/A	N/A	5' - 0"	1	-
C	102a	6a	A	KITCHEN	N/A	N/A	5' - 0"	2	-
C	102b	6a	A	MULTIPURPOSE	N/A	N/A	5' - 0"	2	-
C	102c	6a	A	GRAB AND GO	N/A	N/A	5' - 0"	2	-
C	102d	6a	A	KITCHEN	N/A	N/A	5' - 0"	2	-
C	102e	6a	A	GRAB AND GO	N/A	N/A	5' - 0"	2	-
C	102f	6a	A	KITCHEN	N/A	N/A	5' - 0"	2	-
C	103a	6a	A	WALK-IN	N/A	N/A	5' - 0"	2	-
C	104a	6a	A	MECHANICAL	N/A	N/A	5' - 0"	3	-
C	105a	6a	A	WALK-IN	N/A	N/A	5' - 0"	2	-
C	106a	6a	A	WALK-IN	N/A	N/A	5' - 0"	2	-
C	107a	6c	A	MANAGERS	OFFICE	N/A	5' - 0"	2	-
C	108a	6a	A	JANITOR	N/A	N/A	5' - 0"	2	-
C	109a	2a	A	UNISEX	RESTROOM	-	4' - 11"	2	-
C	109b	2d	A	N/A	N/A	-	4' - 11"	5	-
C	110a	6a	A	EXIT	N/A	N/A	5' - 0"	2	-
C	110b	6a	A	CORRIDOR	N/A	N/A	5' - 0"	2	-
C	111a	6a	A	DRY GOODS	N/A	N/A	5' - 0"	2	-
C	112a	6a	A	RECEIVING	N/A	N/A	5' - 0"	2	-
C	112b	6a	A	KITCHEN	N/A	N/A	5' - 0"	2	-
C	112c	6a	A	EXIT	N/A	N/A	5' - 0"	3	-
C	112d	6a	A	RECEIVING	N/A	N/A	5' - 0"	3	-
C	113a	6a	A	EXIT	N/A	N/A	5' - 0"	4	-
C	113b	6a	A	GRAB AND GO	N/A	N/A	5' - 0"	4	-
C	113c	6a	A	EXIT	N/A	N/A	5' - 0"	4	-
C	113d	6a	A	GRAB AND GO	N/A	N/A	5' - 0"	4	-
C	114a	6a	A	STORAGE	N/A	N/A	5' - 0"	2	-
C	114b	6a	A	STORAGE	N/A	N/A	5' - 0"	2	-



MOUNTING CONDITION

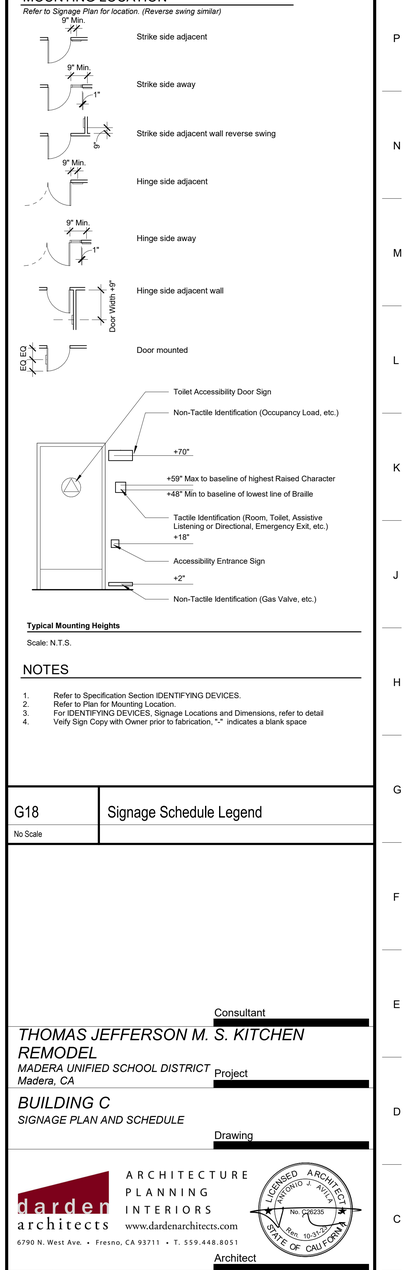
1. Metal Stud Framed Wall
2. Wood Stud Framed Wall
3. Concrete and Concrete Masonry
4. Glass
5. Door
6. See Plan

SIGN MATERIAL

A	=	Acrylic
EM	=	Exterior Metal.
IM	=	Interior Metal.
EP	=	Exterior Plastic.
IP	=	Interior Plastic.
D	=	Decal.

MOUNTING LOCATION

Refer to Signage Plan for location. (Reverse swing similar)



Typical Mounting Heights

Scale: N.T.S.

NOTES

1. Refer to Specification Section IDENTIFYING DEVICES.
2. Refer to Plan for Mounting Location.
3. For IDENTIFYING DEVICES, Signage Locations and Dimensions, refer to detail
4. Veify Sign Copy with Owner prior to fabrication, "-" indicates a blank space

DSA File No.:
20-30

DSA Application No.:
02-120517

IDENTIFICATION STAMP
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APP: 02-120517 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

Agency Approval

G18	Signage Schedule Legend
No Scale	

Consultant

THOMAS JEFFERSON M. S. KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
Madera, CA

Project

BUILDING C
SIGNAGE PLAN AND SCHEDULE

Drawing

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PLANNING
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LICENSED ARCHITECT ANTONIO J. AVILA No. C-29235 REG. 10-31-23 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: -	Copyright 2023 Darden Architects
Scale: 1/8" = 1'-0"	Drawn By: -	
Project Number: 2123	Checked By: -	C/A701
Date: 03/31/2023	Reviewed By: -	

A1	Signage Schedule	A11	Signage Floor Plan
		1/8" = 1'-0"	

3/28/2023 2:48:03 PM
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ABBREVIATIONS

Gl.	Glass
KS	Knee Space
OH	Opposite Hand
Typ.	Typical
Sim.	Similar
Dia.	Diameter
UNO	Unless Noted Otherwise

NOTES

1. All Details, Materials and Finishes shall be considered typical for all similar conditions Unless Noted Otherwise.
2. Refer to Plumbing, Mechanical, Food Service, and Electrical for all wall mounted devices and coordinate location and heights with Architectural (ie. casework, equipment, etc.)
3. Locate and mount TOILET ACCESSORIES and PLUMBING per detail A11 X/A601 Typ Unless Noted Otherwise.
4. Provide backing at all TOILET ACCESSORIES, TOILET PARTITIONS, and IDENTIFYING DEVICES per detail N14 X/A601 Typ Unless Noted Otherwise.
5. Provide Backing for TOILET ACCESSORIES, Grab Bars per detail N11 X/A601 Typ
6. Locate and mount IDENTIFYING DEVICES per detail E11 X/A601 Typ Unless Noted Otherwise.

J1 — Interior Elevation Legend
No Scale

SYMBOLS

- Existing Wall
- Remove Existing Wall
- Remove Existing Building Item (See Demolition Note, Plumbing, Mechanical, and Electrical Drawings)
- Room name / 101 — Room Designation
- 10 — Demolition Note Symbol

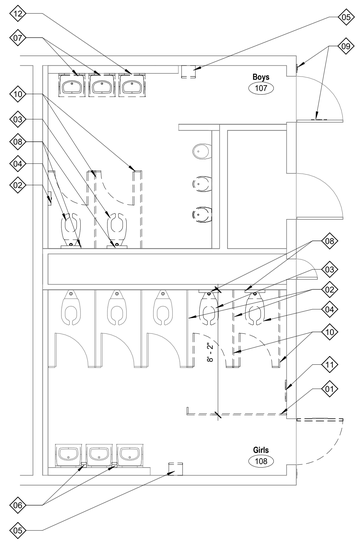
NOTES

1. See Specifications section, SELECTIVE DEMOLITION, See Plumbing, Mechanical, and Electrical Drawings and Specifications
2. Remove materials, equipment, and finishes indicated by demolition key notes
3. Where Demolition work is indicated, contractor shall remove and reinstall any or all items necessary for installation of new work. Existing area affected by demolition work shall be patched and repaired to match Existing construction.
4. Any damage resulting from the modernization activity shall be corrected at no additional expense to the owner and all surfaces cleaned and readied to receive new work.
5. Remove, cut, and patch work in a manner to minimize damage and to provide means of restoring products and finishes to original condition.
6. Where new work abuts or aligns with Existing, make a smooth and even transition. Patch work shall match Existing adjacent work in texture and appearance.
7. When Finished surfaces are cut so that a smooth transition with new work is not possible, terminate Existing surfaces along a straight line at a natural line of division and make recommendation to the architect.

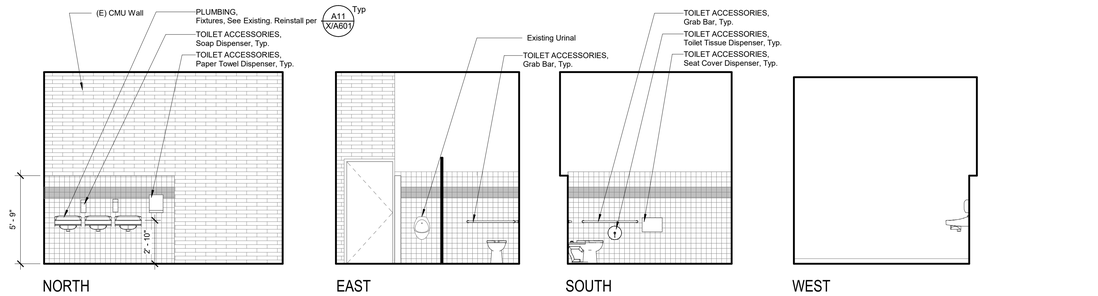
DEMOLITION NOTES

01 SELECTIVE DEMOLITION, Remove and dispose of Existing Privacy Screen.
02 SELECTIVE DEMOLITION, Remove Existing Toilet Paper Dispenser and salvage to Owner.
03 SELECTIVE DEMOLITION, Remove and dispose of Existing Toilet.
04 SELECTIVE DEMOLITION, Remove Existing Toilet and retain for reinstallation.
05 SELECTIVE DEMOLITION, Remove Existing Paper Towel Dispenser and salvage to Owner.
06 SELECTIVE DEMOLITION, Remove Existing Soap Dispenser and retain for reinstallation.
07 SELECTIVE DEMOLITION, Remove Existing Lavatory and retain for reinstallation.
08 SELECTIVE DEMOLITION, Remove Existing Seat Cover Dispenser and salvage to Owner.
09 SELECTIVE DEMOLITION, Remove Existing Signage and retain for reinstallation.
10 SELECTIVE DEMOLITION, Remove and dispose of Existing Toilet Partition.
11 SELECTIVE DEMOLITION, Remove Existing Sanitary Napkin Dispenser and retain for reinstallation.
12 SELECTIVE DEMOLITION, Remove and Dispose of Existing Lavatory.

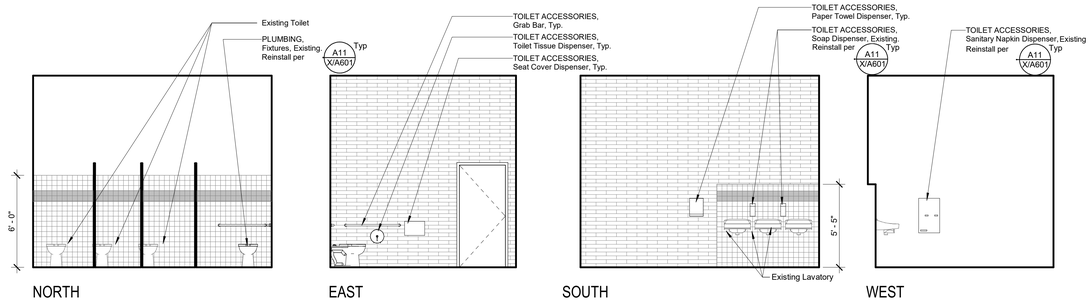
J9 — Demolition Floor Plan Legend
No Scale



J12 — Building D - Enlarged Demolition Floor Plan - Restrooms
1/4" = 1'-0"
Refer to J9 for Symbols, Abbreviations, and Notes

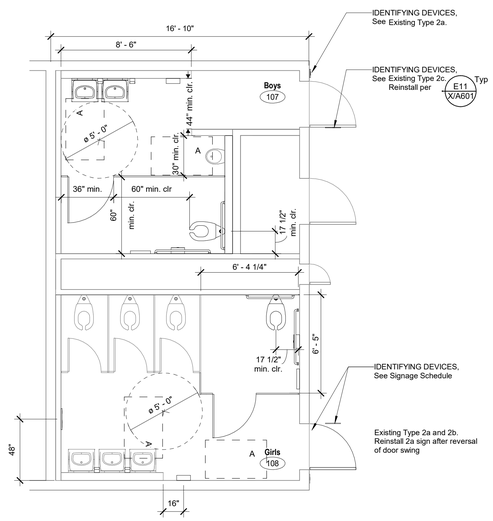


107 Boys



108 Girls

A4 — Interior Elevations
1/4" = 1'-0"
Refer to J1 for Symbols, Abbreviations, and Notes



A12 — Building D - Enlarged Floor Plan - Restrooms
1/4" = 1'-0"
Refer to H18 for Symbols, Abbreviations, and Notes

DSA File No.: *20-30*

DSA Application No.: *02-120517*

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120517 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

Agency Approval

SYMBOLS

- Limit of Work
- (E) Concrete Masonry Unit Wall. 8" wide unless otherwise noted.
- (E) Wall to remain.
- Stud Wall, Studs and Interior Wall materials continuous from floor to underside of floor or roof deck. Studs at 16" o.c. unless otherwise noted. Interior Wall material shall include Batt Insulation, Sound Deadening Board, Plywood Sheathing, Gypsum Board, and Cement Plaster/ Ceramic Tile setting bed where occurs.
- Stud Wall. Studs and finish material continuous from floor to minimum 6" above ceiling. Studs to be braced to underside of roof framing or deck if not required to be continuous to roof framing or deck. Studs at 16"o.c. Unless Otherwise Noted. See Structural for bracing and extent of Structural Sheathing.
- 1 Hr. Corridor Wall - Fire Partition (1 Hr. Fire Resistive Construction, 20 Min. Door Assemblies, 45 Min. Window Assemblies)
- 0 — Reference Grid
- 101 / a — Opening Group No. Refer to Door or Window Opening Schedules
- Room name / 101 — Room Designation
- # # / # — Wall Assembly Symbols. Refer to Sheet X/A101
- Reference Point

ABBREVIATIONS

FF	Face of Finish
FOC	Face of Concrete
FD	Floor Drain
FOM	Face of Masonry
FOS	Face of Stud
FS	Floor Sink
HB	Hose Bib
MO	Masonry Opening
UNO	Unless Noted Otherwise
RO	Rough Opening
Typ.	Typical
Sim.	Similar
OH	Opposite Hand

NOTES

1. All Exterior Walls shall be Wall Assembly Type 4.A/ E.W/ Unless Noted Otherwise.
2. All Interior Walls shall be Wall Assembly Type 4.A I.W Unless Noted Otherwise.
3. All Dimensions are to Face of Stud (FOS) or Center Line, Unless Noted Otherwise.
4. All Elevation Dimensions are above Finish Floor at each floor level, Unless Noted Otherwise.
5. Dimensions noted as "+/-" are nominal.

H18 — Floor Plan Legend
No Scale

THOMAS JEFFERSON M. S. KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
Madera, CA
Project

BUILDING D
FLOOR AND REFLECTED CEILING PLAN
Drawing

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LICENSED ARCHITECT ANTONIO J. PINTO No. C28235 Rnn. 10-31-23 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

Designed By: -
Drawn By: -
Checked By: -
Reviewed By: -

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Scale: As indicated
Project Number: 2123
Date: 03/31/2023

D/A101

3/29/2023 3:27:00 PM
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N1 SIMPSON SET EPOXY NOTES (CMU)

S101 NOT TO SCALE

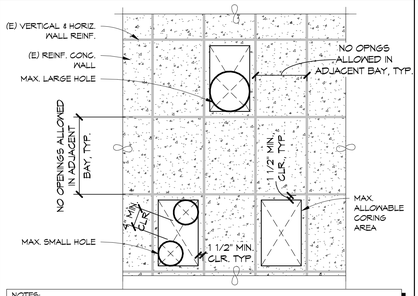
1. EPOXY INTO CMU SHALL BE SIMPSON SET ADHESIVE AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC., 5956 WEST LAS POSITAS BLVD., PLEASANTON, CALIFORNIA, 94588. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND I.C.C. REPORT NO. ESR-1772.
2. ALLOWABLE TENSION VALUES SHALL BE AS FOLLOWS:

BAR SIZE	BOLT SIZE	MIN. EMBEDMENT	MIN. EDGE DIST./ MIN. SPACING	TENSION LOADS (POUNDS)
#4	1/2"	4 1/4"	17"	1300
#5	5/8"	5"	20"	1645
#6	3/4"	6 3/4"	27"	3130

3. PLACEMENT GUIDELINES FOR ABOVE VALUES IN ITEM 2 REQUIRE THE FOLLOWING CONDITIONS:
   - TABLE VALUES ARE BASED ON Fm = 1500 PSI/GROUT = 2000 PSI
   - MAXIMUM LONG TERM TEMPS OF 110° F OR LESS
   - DRILL BIT DIAMETER EQUALS (BAR DIAMETER) + 1/8"
   - BOLT/BAR INSTALLATION @ FACE OF FULLY GROUTED CMU
   - HOLES SHALL BE CLEANED ACCORDING TO ICC REPORT NO. ESR-1771.2
4. WHEN INSTALLING EPOXIED REBAR/BOLTS IN EXISTING FULLY GROUTED CMU MASONRY, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A MINIMUM CLEARANCE OF ONE-INCH BETWEEN THE EXISTING REINFORCEMENT AND THE EPOXIED REBAR/BOLT.
5. ANY REBAR/BOLTS SHOWN ON THE APPROVED PLANS AS BEING EPOXIED REQUIRES SPECIAL INSPECTION IN ACCORDANCE WITH SECTION 4.4 IN THE I.C.C. REPORT. SPECIAL INSPECTION SHALL BE BY AN APPROVED TESTING AND INSPECTION AGENCY. ANY ITEMS THAT REQUIRE EPOXY BUT ARE NOT SPECIFICALLY SHOWN AS BEING EPOXIED ON THE APPROVED PLANS MUST BE APPROVED BY THE STRUCTURAL ENGINEER AND D.S.A./O.S.H.P.D. PRIOR TO INSTALLATION.

J1 MASONRY INFILL WITH EPOXY

S101 NOT TO SCALE



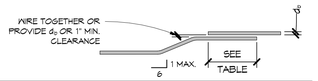
NOTES:
1. PRIOR TO CORING CONCRETE FOR CONDUITS, VERIFY EXACT LOCATION OF EXISTING REINFORCING BARS.
2. NO REINFORCING BARS SHALL BE SEVERED IN ANY FASHION WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER.
3. IF TWO, OR MORE, MATS OF REINFORCING ARE PRESENT, THE ALLOWABLE CORING AREA MAY BE REDUCED FROM THAT SHOWN.
4. NEW OPENINGS ARE ONLY ALLOWED WHERE SPECIFICALLY NOTED ON PLAN.
5. FOR RECTANGULAR HOLES SEE TYPICAL **SAW CUTTING DETAIL** FOR ADDL. REQUIREMENTS.

E1 HOLES IN (E) CONCRETE WALL

S101 NOT TO SCALE

LAP LENGTH							
BAR SIZE	#3	#4	#5	#6	#7	#8	#9
1 1/2 INCHES*	15"	36"	45"	54"	63"	72"	82"

* MINIMUM REQUIRED COVER



NOTES:
1. THE SPLICE LENGTHS LISTED IN THE TABLE ABOVE ARE SHOWN IN INCHES AND REQUIRE THE FOLLOWING:
   - MASONRY COMPRESSIVE STRENGTH OF 1500 PSI
   - GRADE 60 STEEL FOR #4 AND LARGER BAR SIZES
   - GRADE 40 STEEL FOR #3 SIZE BAR
2. THE SPLICE LENGTHS LISTED IN THE TABLE ARE THE WORST CASE VALUE BETWEEN ALLOWABLE STRESS DESIGN AND STRENGTH DESIGN. THE ALLOWABLE STRESS DESIGN VALUES WERE DETERMINED IN ACCORDANCE WITH C.B.C. 2107 AND 2107A. THE STRENGTH DESIGN VALUES WERE DETERMINED IN ACCORDANCE WITH A.C.I. 530/A.S.C.E. 5/TMS 402 SECTION 3.3.3.3 AND C.B.C. 2108 AND 2108A.
3. REINFORCEMENT LARGER THAN NO. 9 SHALL BE SPLICED USING MECHANICAL CONNECTIONS IN ACCORDANCE WITH A.C.I. 530/A.S.C.E. 5/TMS 402 SECTION 2.1.10.1.3.
4. BARS SPLICED BY NON-CONTACT LAP SPLICES SHALL NOT BE SPACED FARTHER APART THAN ONE-FIFTH THE REQUIRED LENGTH OF LAP NOR MORE THAN 6".

A1 LAP SPLICE SCHEDULE (CMU)

S101 NOT TO SCALE

J4 EXISTING CONDITIONS NOTES

S101 NOT TO SCALE

1. ALL CONSTRUCTION INDICATED IS NEW UNLESS SPECIFICALLY DENOTED AS EXISTING.
2. CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS AND THE EXISTING CONDITION.
3. EXISTING CONSTRUCTION INDICATED IN THE CONSTRUCTION DOCUMENTS IS BASED UPON INFORMATION SHOWN ON AVAILABLE RECORD PLANS AND/OR LIMITED VISUAL OBSERVATIONS. THE EXISTING CONSTRUCTION MAY VARY FROM THAT INDICATED ON THE CONSTRUCTION DOCUMENTS. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
4. VERIFY CONSTRUCTION DOCUMENTS WITH THE EXISTING CONSTRUCTION PRIOR TO STARTING CONSTRUCTION OR FABRICATION. DO NOT SCALE THE EXISTING RECORD PLANS.
5. PROVIDE AND MAINTAIN A COMPLETE SET OF EXISTING RECORD PLANS AND MAKE THEM AVAILABLE FOR USE ON JOB SITE.
6. EXISTING STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF EXISTING STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED ON PLANS, OR IF UNCERTAIN THAT AN ELEMENT IS STRUCTURAL, NOTIFY STRUCTURAL ENGINEER IMMEDIATELY.
7. PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF THE EXISTING STRUCTURE AND SITE DURING DEMOLITION AND CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING ADEQUATE SHORING, BRACING, WEATHER PROTECTION AND DUST PROTECTION. THE REMOVAL OR ALTERATION OF EXISTING STRUCTURAL ELEMENTS SHALL BE PERFORMED IN A MANNER TO PREVENT DAMAGE TO THOSE ELEMENTS THAT REMAIN. SHOULD DAMAGE OCCUR TO ANY EXISTING ELEMENTS, THOSE ELEMENTS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO OWNER.
8. IF EXISTING STRUCTURAL ELEMENTS NOT INDICATED FOR REPLACEMENT OR REPAIR ARE DISCOVERED TO BE DAMAGED OR DIFFERENT THAN INDICATED ON THE PLANS, NOTIFY THE STRUCTURAL ENGINEER. SUCH DAMAGE OR DIFFERENCE SHALL INCLUDE, BUT NOT LIMITED TO, DRY ROT, WATER DAMAGE, INSECT DAMAGE, POOR WORKMANSHIP OR FIT-UP, BUCKLING OR EXCESSIVE DEFLECTION, SAGGING, TWISTING AND DIFFERENT SIZE, ORIENTATION, SPACING, GRADE QUALITY OR MATERIAL.
9. DO NOT CUT ANY EXISTING RE-BAR OR FRAMING MEMBERS NOT DETAILED ON STRUCTURAL CONSTRUCTION DOCUMENTS.
10. THE AREA SUBJECT TO THE BUILDING PAD AND SITE IMPROVEMENTS HAVE EXISTING BURIED UTILITIES. THESE UTILITIES ARE BEING USED BY THE EXISTING BUILDINGS, AND WILL REQUIRE SELECTIVE DEMOLITION AND RE-INSTALLATION. THE OWNER'S SURVEYOR HAS DOCUMENTED KNOWN UNDERGROUND UTILITIES, AS INDICATED IN THE TOPOGRAPHICAL SURVEY, BUT CONTRACTOR FIELD INVESTIGATIONS AND HAND DUG PITS ARE REQUIRED IN ORDER TO ESTABLISH THE ACTUAL LIMITS OF THE UNDERGROUND UTILITIES. SHOULD AN UNDOCUMENTED UTILITY BE FOUND, DETERMINE THE LOCATION, SIZE AND SCOPE OF THE UNKNOWN UTILITY AND PROVIDE THE INFORMATION TO THE ARCHITECT FOR FURTHER DIRECTION.
11. CONTRACTOR SHALL HAVE ALLOWANCE TO REMOVE ANY OVER POUR OF EXISTING FOOTINGS TO ALLOW PLACEMENT OF NEW FOOTINGS IN A CAREFUL MANNER.

A4 SIMPSON TITEN HD (CMU)

S101 NOT TO SCALE

J7 GENERAL PROJECT NOTES

S101 NOT TO SCALE

1. ANY SUBSTITUTIONS FOR STRUCTURAL ITEMS ON APPROVED PLANS SHALL BE REVIEWED BY THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO USE. REVIEW WILL BE BILLED ON A TIME AND MATERIALS BASIS TO CONTRACTOR WITH NO GUARANTEE THE SUBSTITUTION WILL BE ALLOWED.
2. DETAILS AND NOTES ON TYPICAL SHEETS SHALL APPLY U.N.O. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR SIMILAR CONDITIONS. U.N.O.
3. DO NOT SCALE STRUCTURAL DRAWINGS. IF DIMENSIONS IN DRAWINGS ARE NOT CLEAR, OR DISCREPANCIES EXIST ON THE DRAWINGS OR SPECIFICATIONS, CONTACT THE ENGINEER.
4. SEE MECHANICAL, ELECTRICAL, AND/OR ARCHITECTURAL DRAWINGS FOR LOCATION AND SIZE OF PIPES, CONDUITS, FLOOR DRAINS, VENTS, DUCTS, DRAIN LEADERS AND OTHER SIMILAR OPENINGS NOT INDICATED ON THE STRUCTURAL DRAWINGS.
5. SEE MECHANICAL, ELECTRICAL AND/OR ARCHITECTURAL DRAWINGS FOR EMBEDMENT OF BOLTS, ANCHORS AND OTHER MISCELLANEOUS EMBEDDED ITEMS NOT SHOWN ON STRUCTURAL DRAWINGS.
6. THE DESIGN, FABRICATION AND CONSTRUCTION SHALL COMPLY WITH ACCEPTED LOCAL GOVERNING CODES OF THE PARTICULAR AREA.
7. THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE SHOWN, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL SOLELY AND COMPLETELY BE RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
8. THE DUTY OF THE ENGINEER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.
9. CONSTRUCTION SHALL BE DISTINGUISHED FROM CONTINUOUS AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE ENGINEER WHETHER PERFORMED PRIOR TO, DURING, OR AFTER COMPLETION OF CONSTRUCTION ARE PERFORMED SOLELY FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DRAWINGS AND SPECIFICATIONS, BUT THEY DO NOT GUARANTEE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.
10. ALL WORK SHALL CONFORM TO THE LATEST APPLICABLE CONSTRUCTION SAFETY REQUIREMENTS OF O.S.H.A. AND ANY OTHER GOVERNMENTAL ENTITY HAVING JURISDICTION.
11. SHOP DRAWINGS:
    - SHOP DRAWINGS SHALL BE SUBMITTED PER PROJECT SPECIFICATIONS.
    - PRIOR TO SUBMISSION, THE CONTRACTOR SHALL REVIEW ALL SUBMITTALS FOR CONFORMANCE WITH THE APPROVED DOCUMENTS AND SHALL STAMP SUBMITTALS AS BEING "REVIEWED FOR CONFORMANCE" TO APPROVED CONTRACT DOCUMENTS.
    - THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE DESIGN TEAM THAT HE AND THE SUBCONTRACTOR UNDERSTAND THE DESIGN CONCEPT BY INDICATING WHICH MATERIAL HE INTENDS TO FURNISH AND INSTALL AND BY DETAILING THE FABRICATION AND INSTALLATION METHODS HE INTENDS TO USE.
    - DESIGN DOCUMENTS ARE NOT SHOP DRAWINGS AND SHALL NOT BE SUBMITTED AS SUCH.
12. ALL NOTES SPECIFIED ON PLANS AND IN DETAILS WITH THE WORD "TYPICAL" FOLLOWED BY **BOLD AND UNDERLINED** TEXT REFER TO THE TYPICAL PROJECT DETAILS ON S1 SERIES SHEETS. TYPICAL DETAILS ARE NOT SPECIFICALLY REFERENCED ON PLANS AND SPECIFIC DETAIL U.N.O.

E7 "SHOT PIN" NOTES FOR HILTI X-U

S101 NOT TO SCALE

1. EPOXY INTO CONCRETE SHALL BE SIMPSON SET-3G ADHESIVE AS MANUFACTURED BY SIMPSON STRONG-TIE CO.,INC. 5956 W. LAS POSITAS BLVD., PLEASANTON, CA. 94588. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND I.C.C. REPORT NO. ESR-4057.
2. TEST VALUES AND INSTALLATION REQUIREMENTS SHALL BE AS FOLLOWS:

BAR SIZE	BOLT SIZE	MIN. EMBEDMENT	TENSION TEST(POUNDS)
#4	1/2"	4"	3780
#5	5/8"	5"	4760
#6	3/4"	7"	6230

3. PLACEMENT GUIDELINES FOR ABOVE VALUES REQUIRE THE FOLLOWING CONDITIONS:
   - TABLE VALUES ARE BASED ON Fc = 3000 psi
   - 6" MIN. EDGE DISTANCE ON ONE SIDE AND SPACING = 3x EMBED. DEPTH
   - HOLES DRILLED WITH A HAMMER DRILL AND CARBIDE BIT
   - BIT DIAMETER EQUALS (BAR DIAMETER) + 1/8"
   - HOLES SHALL BE DRY
   - MAX. LONG TERM TEMPS OF 110° F OR LESS & MAX. SHORT TERM OF 150° F OR LESS
   - TEMP. OF CONCRETE SHALL BE KEPT ABOVE 50° F DURING ENTIRE CURE TIME
   - ANY SEISMIC DESIGN CATEGORY PER 2019 C.B.C., CONDITION B IS ASSUMED
   - A.S.T.M. A615 GRADE 60 REBAR OR A.S.T.M. A193 GRADE B7 THREADED RODS
   - A.C.I. "CRACKED" CONCRETE CONDITION IS SUFFICIENT
   - DEPTH/THICKNESS OF CONCRETE BEING ATTACHED TO MUST BE AT LEAST EQUAL TO THE EMBEDMENT DEPTH + (5)BAR DIAMETERS.
   - HOLES SHALL BE CLEANED ACCORDING TO THE ICC REPORT NO. ESR-2508
4. WHEN INSTALLING EPOXIED REBAR/BOLTS IN (E) CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE (E) REINFORCING BARS. MAINTAIN A MINIMUM CLEARANCE OF (1) INCH BETWEEN THE (E) REINFORCEMENT AND THE EPOXIED REBAR/BOLT.
5. ANY REBAR/BOLTS SHOWN ON THE APPROVED PLANS AS BEING EPOXIED, REQUIRES CONTINUOUS SPECIAL INSPECTION IN ACCORDANCE WITH SECTION 4.4 IN THE I.C.C. REPORT. SPECIAL INSPECTION SHALL BE BY AN APPROVED TESTING AND INSPECTION AGENCY. ANY ITEMS THAT REQUIRE EPOXY BUT ARE NOT SPECIFICALLY SHOWN AS BEING EPOXIED ON THE APPROVED PLANS MUST BE APPROVED BY THE STRUCTURAL ENGINEER AND D.S.A./O.S.H.P.D. PRIOR TO INSTALLATION.
6. PULL TESTING SHALL BE DONE IN ACCORDANCE WITH D.S.A./O.S.H.P.D. GUIDELINES WHEN REQUIRED.

A7 SIMPSON SET-3G EPOXY NOTES(CONC.)

S101 NOT TO SCALE

J11 ABBREVIATIONS

S101 NOT TO SCALE

A.B.	ANCHOR BOLT
ABV.	ABOVE
A.C.I.	AMERICAN CONCRETE INSTITUTE
ADDL.	ADDITIONAL
A.E.S.A.	ARCHITECTURAL EXPOSED STEEL
A.F.P.A.	AMERICAN FOREST AND PAPER ASSOCIATION
A.I.S.C.	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
A.I.T.C.	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION
ALT.	ALTERNATE
A.P.A.	AMERICAN PLYWOOD ASSOCIATION
ARCH.	ARCHITECT(URAL)
A.E.S.S.	ARCHITECTURAL EXPOSED STRUCTURAL STEEL
A.S.C.E.	AMERICAN SOCIETY OF CIVIL ENGINEERS
A.S.T.M.	AMERICAN SOCIETY FOR TESTING & MATERIALS
A.W.S.	AMERICAN WELDING SOCIETY
BLDG.	BUILDING
BLK., BLKG.,	BLOCK, BLOCKING
BM.	BEAM
B.O.	BOTTOM OF
BOT.	BOTTOM
C	CHANNEL
C.B.C.	CALIFORNIA BUILDING CODE
CDX	C-D EXPOSURE 1
C.J.	CONSTRUCTION JOINT
CL	CENTERLINE
CLG.	CEILING
CLR.	CLEAR
C.M.U.	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION
CONT.	CONTINUOUS
CTSK.	COUNTERSINK
d	PENNY NAILS
DBL.	DOUBLE
DEMO.	DEMOLISH
DET., DTL.	DETAIL
DF	DOUGLAS FIR
DIA., Ø	DIAMETER
DIAG.	DIAGONAL
DIM.	DIMENSION
DL	DEAD LOAD
DO	DITTO / DO OVER
DP	DEEP
D.S.A.	DEPARTMENT OF STATE ARCHITECT
DWG	DRAWING
(E)	EXISTING
EA.	EACH
ELEV.	ELEVATION
E.N.	EDGE NAILING
ENGR.	ENGINEER
EQ.	EQUAL
EQUIP.	EQUIPMENT
EXP.	EXPANSION
E.W.	EACH WAY
FDN.	FOUNDATION
F.E.M.A.	FEDERAL EMERGENCY MANAGEMENT AGENCY
F.F.	FINISH FLOOR
FIN.	FINISH
FLR.	FLOOR
F.N.	FIELD NAILING
FRMG.	FRAMING
FT., FTG.	FOOT, FOOTING
F.V.	FIELD VERIFY
GA.	GAUGE
GALV.	GALVANIZED
GLB	GLUE LAMINATED BEAM
H.D.	HOLDDOWN
HDR.	HEADER
HGR.	HANGER
HORIZ.	HORIZONTAL
HSS	HOLLOW STRUCTURAL SECTION
HT.	HEIGHT
I.B.C.	INTERNATIONAL BUILDING CODE
I.C.C.	INTERNATIONAL CODE COUNCIL
IN.	INCH
I.D.	INSIDE DIAMETER
INT.	INTERIOR
I.R.	INTERPRETATION OF REGULATIONS
JST.	JOIST
K.	KIPS
KSI	KIPS PER SQUARE INCH
L	ANGLE
LBS, #	POUNDS (XXX LBS, XXX#)
LL	LIVE LOAD
LLV(LLH)	LONG LEG VERTICAL (HORIZ.)
LOC.	LOCATION
LSL	LAMINATED STRAND LUMBER
LT. WT.	LIGHT WEIGHT
LVL	LAMINATED VENEER LUMBER
MAS.	MASONRY
MAX.	MAXIMUM
M.B.	MACHINE BOLT
MFR.	MANUFACTURER
MIN.	MINIMUM
M.S.R.	MACHINE STRESS RATED
MTL.	METAL
(N)	NEW
NO., #	NUMBER, (NO. XX, #XX)
N.T.S.	NOT TO SCALE
O/, o/	OVER
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.H.	OPPOSITE HAND
OPNG.	OPENING
OPP.	OPPOSITE
OSB	ORIENTED STRAND BOARD
O.S.H.P.D.	OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
PL.	PLATE
P.T.	PRESSURE TREATED
PLYWD.	PLYWOOD
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
REINF.	REINFORCING
REQD.	REQUIRED
RM.	ROOM
SCHED.	SCHEDULE
SHTG.	SHEATHING
SHT.	SHEET
SIM.	SIMILAR
SMS	SHEET METAL SCREWS
SPEC.	SPECIFICATION
SQ.	SQUARE
STGR.	STAGGER
STD.	STANDARD
STIFF.	STIFFENER
STL.	STEEL
STRUCT.	STRUCTURAL
SYM.	SYMMETRICAL
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
THK.	THICK
TL	TOTAL LOAD
T.O.	TOP OF
TYP.	TYPICAL
U.N.O., U.O.N.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
W/, W/O	WITH, WITH OUT
WD	WOOD
W.F.	WIDE FLANGE
W.C.L.I.B.	WEST COAST LUMBER INSPECTION BUREAU
WT.	WEIGHT
W.W.F.	WELDED WIRE FABRIC
W.W.R.	WELDED WIRE MESH
W.W.P.A.	WESTERN WOOD PRODUCTS ASSOCIATION

1. EXISTING BURIED UTILITIES ARE KNOWN TO BE IN THE AREA OF THE NEW BUILDING PAD AND SITE IMPROVEMENTS. THESE UTILITIES ARE CURRENTLY BEING USED BY THE EXISTING NEIGHBORING BUILDINGS, AND WILL REQUIRE SELECTIVE DEMOLITION AND RE-INSTALLATION. THE CONTRACTOR SHALL COORDINATE ANY SELECTIVE DEMOLITION AND RE-INSTALLATION WITH THE OWNER'S OF THE AFFECTED BUILDINGS PRIOR TO THE COMMENCEMENT OF DEMOLITION.
2. THE NEW BUILDING OWNER'S SURVEYOR SHALL DOCUMENT KNOWN UNDERGROUND UTILITIES AND INDICATE THOSE UTILITIES IN THE TOPOGRAPHICAL SURVEY. THE CONTRACTOR SHALL DOCUMENT ALL FIELD INVESTIGATIONS AND HAND DUG PITS AS REQUIRED IN ORDER TO ESTABLISH THE ACTUAL LIMITS OF ALL EXISTING UNDERGROUND UTILITIES. SHOULD ANY UNDOCUMENTED UTILITY BE FOUND, THE CONTRACTOR SHALL DETERMINE THE LOCATION, SIZE, TYPE AND SCOPE OF THE UNKNOWN UTILITY. THE CONTRACTOR SHALL THEN PROVIDE THAT INFORMATION TO THE ARCHITECT FOR FURTHER DIRECTION.
3. THE CONTRACTOR IS ALLOWED TO CAREFULLY REMOVE ANY EXISTING FOOTING OVER POUR FROM THE ADJACENT BUILDING, AS LONG AS NO DAMAGE IS DONE TO THE FOOTING, TO ALLOW FOR THE PROPER PLACEMENT OF NEW FOOTINGS, PER PLAN.

A11 HILTI KWIK BOLT TZ2 IN CONC.

S101 NOT TO SCALE

J14 DESIGN CRITERIA

S101 NOT TO SCALE

CODE
2019 CALIFORNIA BUILDING CODE

RISK CATEGORY — TYPE III

ROOF LOAD

DEAD LOADS	20.7 PSF
LIVE LOAD	20 PSF

WALL LOADS

EXTERIOR WALL DEAD LOADS	15 PSF
INTERIOR WALL DEAD LOADS	10 PSF
EXISTING CMU WALL DEAD LOADS	84 PSF

SEISMIC LOADING CRITERIA

ANALYSIS PROCEDURE USED	ELF
SEISMIC IMPORTANCE FACTOR	1.25
MAPPED SPECTRAL ACCELERATION, MCE:	
a. Ss	0.599
b. S1	0.235
SPECTRAL RESPONSE COEFFICIENT:	
a. Fa	1.321
b. Fv	2.13
MAXIMUM CONSIDERED EARTHQUAKE RESPONSE ACCELERATIONS:	
a. Sms	0.791
b. Sm1	0.501
DESIGN SPECTRAL RESPONSE ACCELERATIONS:	
a. Sds	0.528
b. Sd1	0.334
SEISMIC DESIGN CATEGORY	D
RESPONSE MODIFICATION COEFFICIENT, R (LIGHT FRAMED WALLS SHEATHED WITH WOOD STRUCTURAL PANELS)	6.5
SEISMIC RESPONSE COEFFICIENT/BASE SHEAR	0.101 *W
SEISMIC SYSTEM OVERSTRENGTH FACTOR	3
SEISMIC DEFLECTION AMPLIFICATION FACTOR	4
SEISMIC FORCE REDUNDANCY FACTOR	1.3

WIND LOADING CRITERIA

IMPORTANCE FACTOR	1.0
BASIC WIND SPEED	100 MPH
SURFACE ROUGHNESS CATEGORY	C
EXPOSURE CATEGORY	C
VELOCITY PRESSURE EXPOSURE COEFFICIENT, Kz	0.9
TOPOGRAPHIC FACTOR, Kzt	1.0
ENCLOSURE CLASSIFICATION	ENCLOSED
DESIGN WALL WIND LOADS, Pnet	21.6 PSF
DESIGN UPLIFT WIND LOADS, Pnet	16 PSF

SOILS CRITERIA:

ALLOWABLE BEARING PRESSURE (DL+LL)	1,500 PSF
COEFFICIENT OF FRICTION	0.25
SITE CLASSIFICATION	D

CBC 2019 TABLE 1806A.2

A14 HILTI HIT-HY 200V3 EPOXY NOTES

S101 NOT TO SCALE

E11 (N) FTGS. ADJACENT TO (E) FTGS.

S101 NOT TO SCALE

1. EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT TZ2 AS MANUFACTURED BY HILTI, INC., 7250 DALLAS PARKWAY, SUITE 1000, PLANO, TEXAS 75024. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND I.C.C. REPORT NO. ESR-4266.
2. TEST VALUES AND INSTALLATION REQUIREMENTS SHALL BE AS FOLLOWS:

BOLT SIZE	MIN. EMBED	CONT. THKS.	TENSION TEST	TORQUE TEST
3/8"	2"	4"	1100#	25 #-FT
1/2"	3 1/2"	6"	2000#	40 #-FT
5/8"	4"	6"	2300#	60 #-FT
3/4"	4 3/4"	8"	3700#	110 #-FT

3. PLACEMENT GUIDELINES FOR ABOVE VALUES IN ITEM 2 REQUIRE THE FOLLOWING CONDITIONS:
   - TABLE VALUES ARE BASED ON Fc = 3000 PSI
   - HOLES DRILLED WITH A HAMMER DRILL AND CARBIDE BIT COMPLYING W/ ANSI B212.15-1994
   - BIT DIAMETER EQUALS THE SIZE OF THE ANCHOR BEING INSTALLED
   - HOLE DEPTH MUST EXCEED MIN. EMBED. BY ONE BOLT DIAMETER
   - ANY SEISMIC DESIGN CATEGORY PER 2019 C.B.C.
   - TENSION LOAD VALUES SHALL BE MULTIPLIED BY 0.6 FOR LIGHTWEIGHT CONCRETE
   - A.C.I. "CRACKED" CONCRETE CONDITION IS SUFFICIENT
   - FOR CARBON OR STAINLESS STEEL BOLTS
4. WHEN INSTALLING EXPANSION ANCHORS IN EXISTING CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A MINIMUM CLEARANCE OF ONE-INCH BETWEEN THE EXISTING REINFORCEMENT AND THE EXPANSION ANCHOR.
5. ANY BOLTS SHOWN ON THE APPROVED PLANS AS EXPANSION ANCHORS, REQUIRES SPECIAL INSPECTION IN ACCORDANCE WITH SECTION 4.4 IN THE I.C.C. REPORT. SPECIAL INSPECTION SHALL BE BY AN APPROVED TESTING AND INSPECTION AGENCY. ANY ITEMS THAT REQUIRE EXPANSION ANCHORS BUT ARE NOT SPECIFICALLY SHOWN ON THE APPROVED PLANS MUST BE APPROVED BY THE STRUCTURAL ENGINEER AND D.S.A./O.S.H.P.D. PRIOR TO INSTALLATION.

A11 HILTI KWIK BOLT TZ2 IN CONC.

S101 NOT TO SCALE

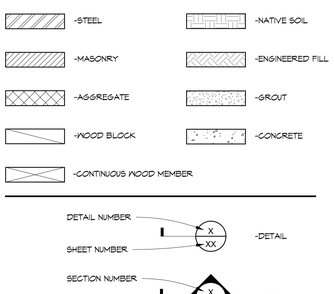
E14 LEGENDS AND SYMBOLS

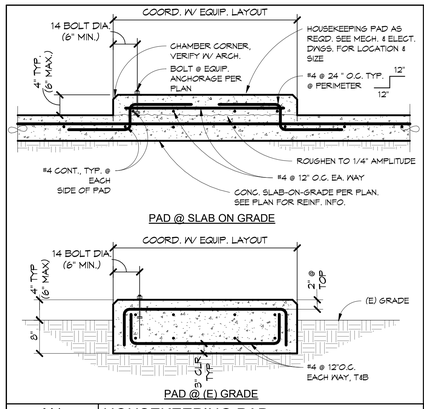
S101 NOT TO SCALE

1. EPOXY SHALL BE HILTI HIT-HY 200 V3 ADHESIVE AS MANUFACTURED BY HILTI, INC., 7250 DALLAS PARKWAY, SUITE 1000, PLANO, TEXAS 75024. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND I.C.C. REPORT NO. ESR-4868.
2. TEST VALUES AND INSTALLATION REQUIREMENTS SHALL BE AS FOLLOWS:

BAR SIZE	BOLT SIZE	MIN. EMBEDMENT	TEST LOAD (POUNDS)
#4	1/2"	4"	1190
#5	5/8"	5"	1540
#6	3/4"	7"	2190

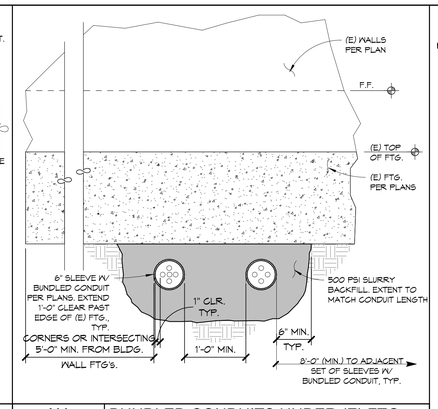
3. PLACEMENT GUIDELINES FOR ABOVE VALUES IN ITEM 2 REQUIRE THE FOLLOWING CONDITIONS:
   - TABLE VALUES ARE BASED ON Fc = 3000 PSI
   - 6" MIN. EDGE DISTANCE & 12" MIN. BOLT/BAR SPACING
   - HOLES DRILLED WITH A HAMMER DRILL AND CARBIDE BIT
   - BIT DIAMETER EQUALS (BAR DIAMETER) + 1/8"
   - HOLES SHALL BE DRY OR WATER-SATURATED, BUT NOT WATER FILLED
   - MAX. LONG TERM TEMPS OF 110° F OR LESS & MAX. SHORT TERM OF 162° F OR LESS
   - ANY SEISMIC DESIGN CATEGORY PER 2019 C.B.C.
   - A.S.T.M. A615 GRADE 60 REBAR
   - A.S.T.M. A193 GRADE B7 THREADED RODS
   - A.C.I. "CRACKED" CONCRETE CONDITION IS SUFFICIENT
   - DEPTH/THICKNESS OF CONCRETE BEING ATTACHED TO MUST BE AT LEAST 1 1/2" GREATER THAN THE EMBEDMENT DEPTH.
4. WHEN INSTALLING EPOXIED REBAR/BOLTS IN EXISTING CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A MINIMUM CLEARANCE OF ONE-INCH BETWEEN THE EXISTING REINFORCEMENT AND THE EPOXIED REBAR/BOLT.
5. ANY REBAR/BOLTS SHOWN ON THE APPROVED PLANS AS BEING EPOXIED, REQUIRES SPECIAL INSPECTION IN ACCORDANCE WITH SECTION 4.4 IN THE I.C.C. REPORT. SPECIAL INSPECTION SHALL BE BY AN APPROVED TESTING AND INSPECTION AGENCY. ANY ITEMS THAT REQUIRE EPOXY BUT ARE NOT SPECIFICALLY SHOWN AS BEING EPOXIED ON THE APPROVED PLANS MUST BE APPROVED BY THE STRUCTURAL ENGINEER AND D.S.A./O.S.H.P.D. PRIOR TO INSTALLATION.


-STEEL
-NATIVE SOI



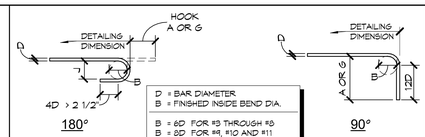
N1 HOUSEKEEPING PAD

S102 NOT TO SCALE



N4 BUNDLED CONDUITS UNDER (E) FTG.

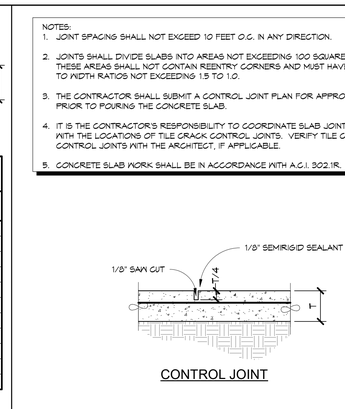
S102 NOT TO SCALE



DIMENSION OF STD. 180° HOOKS, ALL GRADES				DIMENSION OF STD. 90° HOOKS, ALL GRADES	
BAR SIZE	A OR G	J	B	A OR G	B
#3	5"	3"	2 1/4"	6"	2 1/4"
#4	6"	4"	3"	8"	3"
#5	7"	5"	3 3/4"	10"	3 3/4"
#6	8"	6"	4 1/2"	1'-0"	4 1/2"
#7	10"	7"	5 1/4"	1'-2"	5 1/4"
#8	11"	8"	6"	1'-4"	6"
#9	1'-3"	1'-1 3/4"	9 1/2"	1'-7"	9 1/2"
#10	1'-5"	1'-1 1/4"	10 3/4"	1'-10"	10 3/4"
#11	1'-7"	1'-2 3/4"	12"	2'-0"	12"
#14	2'-3"	1'-9 3/4"	18 1/4"	2'-7"	18 1/4"
#18	3'-0"	2'-4 1/2"	24"	3'-5"	24"

J7 STANDARD REBAR HOOKS

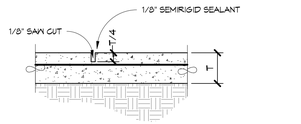
S102 NOT TO SCALE



J11 CONCRETE SLAB JOINTS

S102 NOT TO SCALE

NOTES:
1. JOINT SPACING SHALL NOT EXCEED 10 FEET O.C. IN ANY DIRECTION.
2. JOINTS SHALL DIVIDE SLABS INTO AREAS NOT EXCEEDING 100 SQUARE FEET. THESE AREAS SHALL NOT CONTAIN REENTRY CORNERS AND MUST HAVE LENGTH TO WIDTH RATIOS NOT EXCEEDING 1.5 TO 1.0.
3. THE CONTRACTOR SHALL SUBMIT A CONTROL JOINT PLAN FOR APPROVAL PRIOR TO POURING THE CONCRETE SLAB.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE SLAB JOINTS WITH THE LOCATIONS OF TILE CRACK CONTROL JOINTS. VERIFY TILE CRACK CONTROL JOINTS WITH THE ARCHITECT, IF APPLICABLE.
5. CONCRETE SLAB WORK SHALL BE IN ACCORDANCE WITH A.C.I. 302.1R.



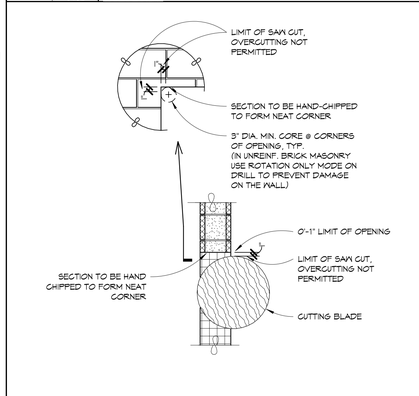
1. FOUNDATIONS SHALL BEAR ON ENGINEERED FILL OR NATIVE SOIL A MINIMUM OF 18" BELOW ADJACENT GRADE OR FINISHED GRADE U.N.O. IN A SOILS REPORT.
2. MAXIMUM SIZE AGGREGATE SHALL BE AS FOLLOWS:
   - SLAB ON GRADE: 1"
   - FOOTINGS: 1 1/2"
   - COLUMNS & WALLS: 1 1/2"
3. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS SHALL BE AS FOLLOWS:
   - 4000 PSI NORMAL WEIGHT SLAB ON GRADE
   - 3000 PSI NORMAL WEIGHT FOOTINGS
4. MAXIMUM WATER CEMENT RATIOS SHALL BE AS FOLLOWS:
   - 0.45 SLAB ON GRADE
   - 0.58 FOOTINGS: 0.45
5. LIGHT WEIGHT CONCRETE REFERS TO THE USE OF LIGHT WEIGHT COARSE AGGREGATES (A.S.T.M.C330) WITH SAND FINES RESULTING IN CONCRETE DRY DENSITIES OF 110 LBS. (13 LBS.) PER CU. FT. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
6. THICKNESS OF CONCRETE FILL OVER METAL DECK PER PLANS ARE MINIMUM THICKNESSES. CONTRACTOR SHALL MAKE ALLOWANCES FOR ADDITIONAL FILL REQUIRED TO COMPENSATE FOR BEAM AND DECK DEFLECTIONS AND TO MAINTAIN SURFACE TOLERANCES PER PLANS AND SPECIFICATIONS.
7. FOR CONCRETE FILL OVER METAL DECK, THE MAXIMUM LENGTH OF SLAB POUR SHALL NOT EXCEED 80'-0" AND THE MAXIMUM AREA OF THE POUR SHALL NOT EXCEED 8,400 SQUARE FEET BETWEEN CONSTRUCTION JOINTS.
8. THE FOLLOWING ARE MINIMUM CONCRETE COVER DIMENSIONS PER A.C.I. 318-14 SECTION 20.6.1. THEY ARE FROM FACE OF REINFORCING STEEL TO FACE OF CONCRETE. ALL REINFORCING STEEL SHALL MAINTAIN THE FOLLOWING CLEAR DISTANCES, U.N.O.
   - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
   - CONCRETE EXPOSED TO EARTH OR WEATHER: (NO. 6 THROUGH NO. 18) 2"; (NO. 5 AND SMALLER) 1 1/2"
   - CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS AND JOISTS: (NO. 14 AND NO. 18) 1 1/2"; (NO. 11 AND SMALLER) 3/4"
   - PLACE REINF. AT MID-THICKNESS FOR SLABS ON GRADE.
9. CONSTRUCTION LOADS SHALL NOT BE PLACED ON NEW CONCRETE CONSTRUCTION, INCLUDING CONCRETE TOPPING ON METAL DECK, FOR AT LEAST 7 DAYS AFTER CONCRETE PLACEMENT OR WITH APPROVAL BY ENGINEER.
10. ALL SPLICES IN CONTINUOUS REINFORCEMENT USED IN WALLS, FOOTINGS, ETC. SHALL HAVE A MINIMUM LAP AS DESCRIBED IN THE TYPICAL **LAP SPLICE SCHEDULE** DETAIL (E11 / S102). SPLICES IN ADJACENT BARS SHALL NOT BE LESS THAN 4'-0" APART. VERTICAL WALL BARS SHALL BE SPLICED AT OR NEAR FLOOR LINES, OR WHERE SPECIFICALLY DETAILED TO BE SEPARATED.
11. ALL REINFORCEMENT CROSSING CONSTRUCTION JOINTS SHALL BE CONTINUOUS, OR SHALL BE MADE EFFECTIVELY CONTINUOUS BY USE OF FULLY DEVELOPED LAP SPLICES, DOWELS (WITH LAPPED SPLICES) OR APPROVED COUPLERS.
12. HORIZONTAL CONSTRUCTION JOINTS SHALL HAVE ENTIRE SURFACE REMOVED TO EXPOSE\CLEAN AGGREGATE SOLIDLY EMBEDDED.
13. CONCRETE SHALL NOT BE DROPPED THROUGH REINF. STEEL (AS IN WALL) SO AS TO CAUSE SEGREGATION OF AGGREGATES. IN SUCH CASES, HOPPERS AND VERTICAL CHUTES OR TRUNKS SHALL BE USED. CHUTES OR TRUNKS SHALL BE OF VARIABLE LENGTHS SO THAT FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED FIVE (5) FEET AND A SUFFICIENT NUMBER OF CHUTES AND TRUNKS SHALL BE USED TO ENSURE THE CONCRETE REMAINS LEVEL AT ALL TIMES.
14. ALL STEEL COLUMN BASE PLATES AND STEEL BEAMS BEARING ON CONCRETE SHALL BEAR UPON 1 1/2" OF NON-SHRINK, 3,000 PSI MIN. GROUT PADS AND LEVELING NUTS, U.N.O.
15. WHERE STEEL MEMBERS BEAR IN CONCRETE OR MASONRY WALLS, OPENINGS SHALL BE DRY-PACKED AFTER STEEL IS IN PLACE.
16. CONTRACTOR SHALL SUBMIT PROPOSED POUR SCHEDULE FOR ENGINEER'S APPROVAL PRIOR TO THE FORMING OR POURING OF ANY CONCRETE WORK.
17. PROVIDE 3/4" CHAMFER AT EXPOSED EDGES OF CONCRETE BEAMS, COLUMNS AND WALLS UNLESS NOTED OTHERWISE.
18. THE CONTRACTOR SHALL FURNISH AND INSTALL 1/2" PRE-MOLDED EXPANSION JOINTS IN ALL EXTERIOR WALKS AND SLABS AS INDICATED ON DRAWINGS, BUT IN NO CASE MORE THAN 24'-0" O.C.
19. ALL REINFORCING SHALL CONFORM TO A.S.T.M. A615 AND SHALL BE GRADE 40 FOR #3, GRADE 60 FOR #4 AND LARGER.
20. COLUMN SPIRALS SHALL CONFORM TO "STANDARD SPECIFICATION FOR COLD-DRAWING STEEL FOR CONCRETE REINFORCEMENT" ASTM A82 WITH A MINIMUM YIELD STRENGTH OF 60,000 PSI. FABRICATION SHALL CONFORM TO ACI MANUAL OF STANDARD PRACTICE.
21. WELDED WIRE FABRIC SHALL CONFORM TO A.S.T.M. A185.
22. ALL WELDING OF REINFORCING STEEL SHALL BE WITH LOW HYDROGEN ELECTRODES U.N.O. WELDING OF REINFORCING SHALL BE ALLOWED ONLY WHERE DETAILED ON DRAWINGS. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH AMERICAN WELDING SOCIETY SPECIFICATIONS A.W.S. D1.4. WELDING SHALL NOT BE DONE WITHIN TWO BAR DIAMETERS OF ANY BENT PORTION OF A BAR WHICH HAS BEEN BENT COLD. WELDING OF CROSSING BARS SHALL NOT BE PERMITTED FOR ASSEMBLY OF REINFORCEMENT UNLESS AUTHORIZED BY THE STRUCTURAL ENGINEER OF RECORD. A.S.T.M. A706 REINFORCING SHALL BE USED FOR ALL REINFORCING THAT IS BEING WELDED.
23. WHERE DRILLED PIERS ARE USED, CONTRACTOR IS RESPONSIBLE TO PROVIDE MEASURES TO DRILL HOLE PER PLANS BY USE OF CASING IF UNFORESEEN SOIL CONDITIONS ARE ENCOUNTERED.

DSA File No.: *20-30*

DSA Application No.: *02-120517*

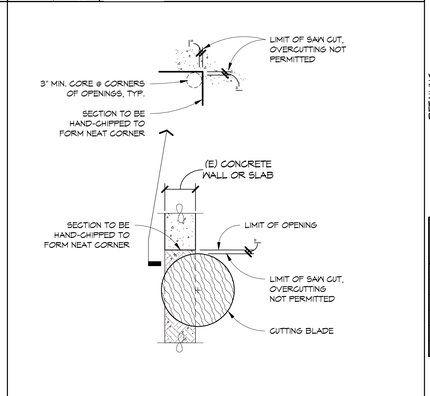
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120517 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

Agency Approval



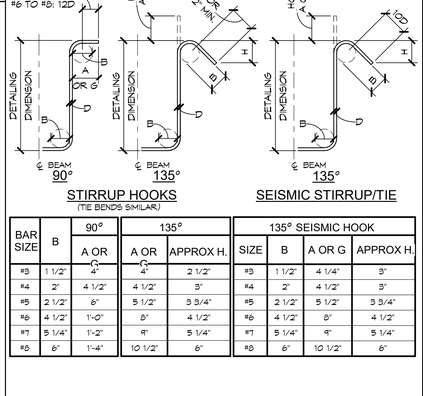
J1 SAW CUTTING IN REINF. MASONRY

S102 NOT TO SCALE



J4 SAW CUTTING IN CONCRETE

S102 NOT TO SCALE

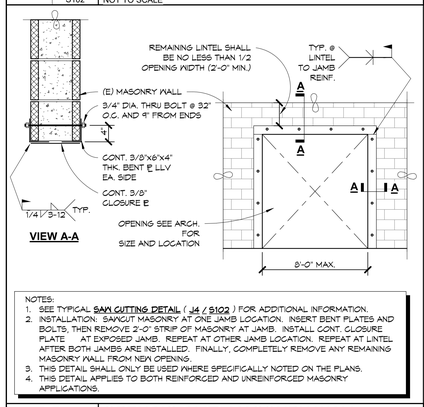


STIRRUP HOOKS
(TIE BENDS SIMILAR)

BAR SIZE	B	90° A OR	135° A OR	135° APPROX H.	135° SEISMIC HOOK SIZE	B	A OR G	APPROX H.
#3	1 1/2"	4"	4"	2 1/2"	#3	1 1/2"	4 1/4"	3"
#4	2"	4 1/2"	4 1/2"	3"	#4	2"	4 1/2"	3"
#5	2 1/2"	6"	5 1/2"	3 3/4"	#5	2 1/2"	5 1/2"	3 3/4"
#6	4 1/2"	1'-0"	8"	4 1/2"	#6	4 1/2"	8"	4 1/2"
#7	5 1/4"	1'-2"	9"	5 1/4"	#7	5 1/4"	9"	5 1/4"
#8	6"	1'-4"	10 1/2"	6"	#8	6"	10 1/2"	6"

J7 STANDARD REBAR HOOKS

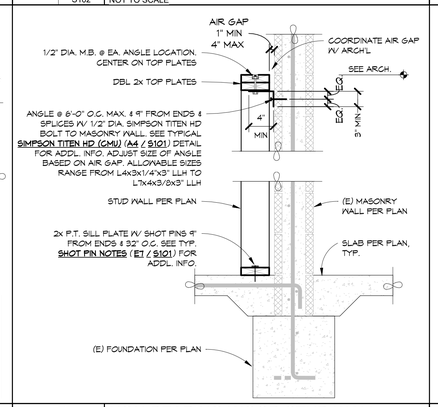
S102 NOT TO SCALE



NOTES:
1. SEE TYPICAL **SAW CUTTING DETAIL** (J4 / S102) FOR ADDITIONAL INFORMATION.
2. INSTALLATION: SAWCUT MASONRY AT ONE JAMB LOCATION. INSERT BENT PLATES AND BOLTS, THEN REMOVE 2'-0" STRIP OF MASONRY AT JAMB. INSTALL CONT. CLOSURE PLATE. AT EXPOSED JAMB. REPEAT AT OTHER JAMB LOCATION. REPEAT AT LINTEL AFTER BOTH JAMBS ARE INSTALLED. FINALLY, COMPLETELY REMOVE ANY REMAINING MASONRY WALL FROM NEW OPENING.
3. THIS DETAIL SHALL ONLY BE USED WHERE SPECIFICALLY NOTED ON THE PLANS.
4. THIS DETAIL APPLIES TO BOTH REINFORCED AND UNREINFORCED MASONRY APPLICATIONS.

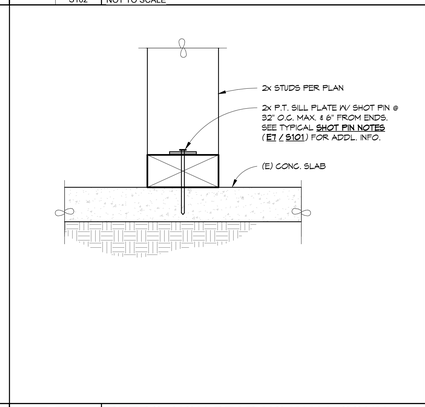
E1 OPENING IN (E) MASONRY WALL

S102 NOT TO SCALE



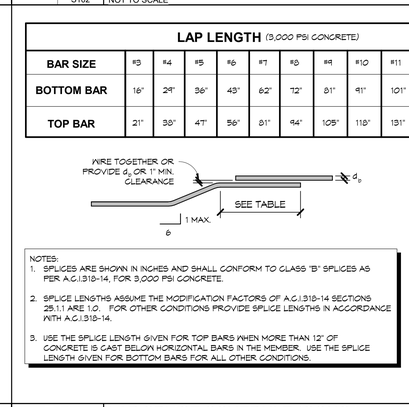
E4 NON-BEARING WOOD STUD WALL

S102 NOT TO SCALE



E7 RETRO. NON-BEARING WALL CONN.

S102 NOT TO SCALE



E11 LAP SPLICE SCHEDULE (CONC.)

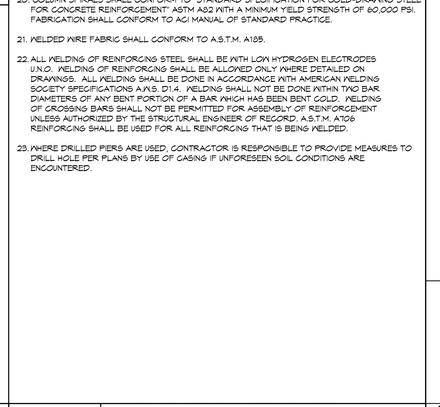
S102 NOT TO SCALE

LAP LENGTH (3,000 PSI CONCRETE)									
BAR SIZE	#3	#4	#5	#6	#7	#8	#9	#10	#11
BOTTOM BAR	16"	24"	36"	43"	62"	72"	81"	91"	101"
TOP BAR	21"	30"	47"	56"	81"	94"	105"	118"	131"

NOTES:
1. SPLICES ARE SHOWN IN INCHES AND SHALL CONFORM TO CLASS "B" SPLICES AS PER A.C.I.318-14, FOR 3,000 PSI CONCRETE.
2. SPLICE LENGTHS ASSUME THE MODIFICATION FACTORS OF A.C.I.318-14 SECTIONS 25.1.1 ARE 1.0. FOR OTHER CONDITIONS PROVIDE SPLICE LENGTHS IN ACCORDANCE WITH A.C.I.318-14.
3. USE THE SPLICE LENGTH GIVEN FOR TOP BARS WHEN MORE THAN 12" OF CONCRETE IS CAST BELOW HORIZONTAL BARS IN THE MEMBER. USE THE SPLICE LENGTH GIVEN FOR BOTTOM BARS FOR ALL OTHER CONDITIONS.

J11 CONCRETE SLAB JOINTS

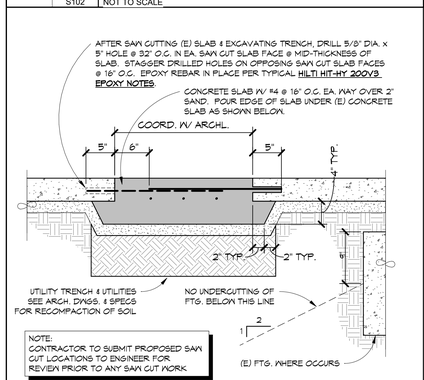
S102 NOT TO SCALE



NOTES:
1. FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THAT FOUNDATION TRENCH WALLS ARE STABLE AS DETERMINED BY THE ARCHITECT, OR STRUCTURAL ENGINEER, SUBJECT TO THE APPROVAL OF THE D.S.A./O.S.H.P.D. IN SUCH CASE, THE MINIMUM FORM WORK SHOWN ABOVE IS MANDATORY TO INSURE CLEAN EXCAVATIONS IMMEDIATELY PRIOR TO, AND DURING, THE PLACING OF CONCRETE.
2. FORMWORK NOT PERMITTED BELOW GRADE UNLESS FULLY FORMED.

E14 FOUNDATION AND CONC. NOTES

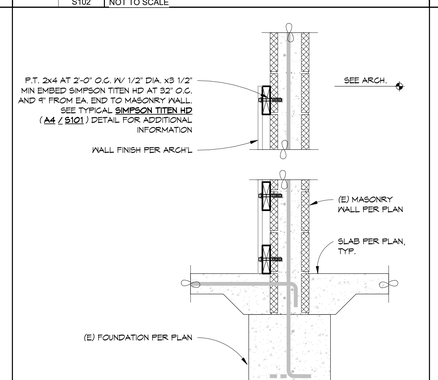
S102 NOT TO SCALE



NOTE:
CONTRACTOR TO SUBMIT PROPOSED SAW CUT LOCATIONS TO ENGINEER FOR REVIEW PRIOR TO ANY SAW CUT WORK

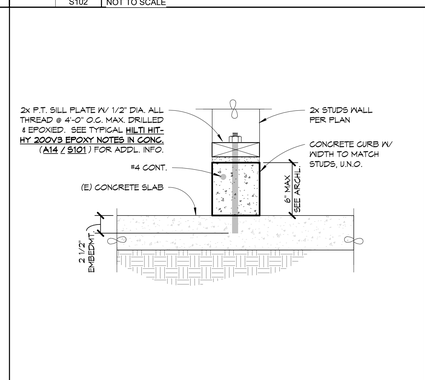
A1 UTILITY TRENCH SLAB RETROFIT

S102 NOT TO SCALE



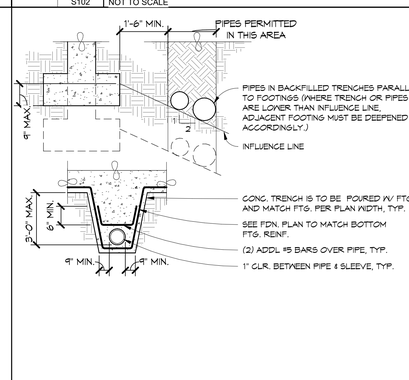
A4 2" WOOD FURRING WALL

S102 NOT TO SCALE



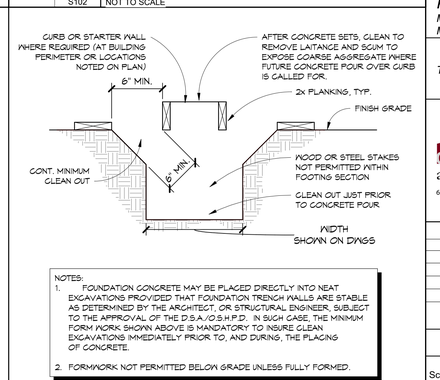
A7 NON-BRNG WALL CONN. W/CURB

S102 NOT TO SCALE



A11 PIPES BELOW/ADJACENT TO FTG.

S102 NOT TO SCALE



NOTES:
1. FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THAT FOUNDATION TRENCH WALLS ARE STABLE AS DETERMINED BY THE ARCHITECT, OR STRUCTURAL ENGINEER, SUBJECT TO THE APPROVAL OF THE D.S.A./O.S.H.P.D. IN SUCH CASE, THE MINIMUM FORM WORK SHOWN ABOVE IS MANDATORY TO INSURE CLEAN EXCAVATIONS IMMEDIATELY PRIOR TO, AND DURING, THE PLACING OF CONCRETE.
2. FORMWORK NOT PERMITTED BELOW GRADE UNLESS FULLY FORMED.

A14 REQUIRED CONT. FTG. FORM WORK

S102 NOT TO SCALE

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TYPICAL CONCRETE NOTES AND DETAILS
Drawing

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Architect

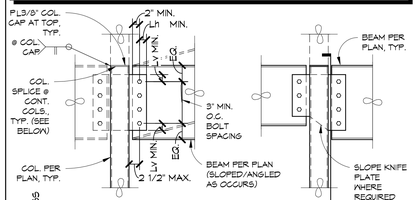
No.	Revision/Submission	Date

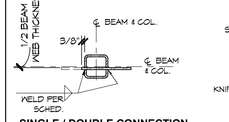
Revision

	Designed By: BWY	Copyright 2023 Darden Architects
Scale: 12" = 1'-0"	Drawn By: BWY	S102
Project Number: 2123	Checked By: SOC	
Date: 03/31/2023	Reviewed By: SOC	

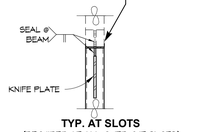
3/28/2023 7:55:21 AM
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NOTES:
1. CLIP BEAM FLANGE(S) WHERE REQUIRED TO CLEAR ADJACENT BEAM FLANGES AT MULTI-BEAM CONNECTIONS.
2. KNIFE PLATE SLOT WIDTH = KNIFE PLATE THICKNESS + 1/8"
3. PJP WELDS ARE REQUIRED ALL AROUND COLUMN AT SPLICE LOCATIONS. LEAVE 1/16" OF COLUMN WALL THICKNESS AT INTERIOR FACE FOR PJP WELD.

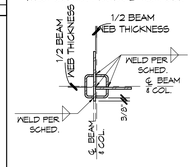




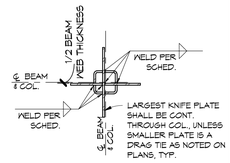
SINGLE / DOUBLE CONNECTION
(SLOT COLUMN ℄ ENTER ℄ FROM SIDE)



TYP. AT SLOTS
(REQUIRED AT ALL OVER CUT SLOTS)



DOUBLE / TRIPLE CONNECTION
(CUT COLUMN ℄ ENTER ℄ FROM ABOVE)



QUAD CONNECTION
(CUT COLUMN ℄ ENTER ℄ FROM ABOVE)

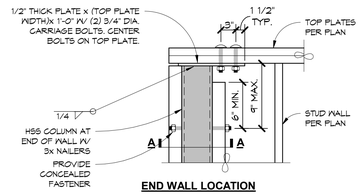
CONNECTION SCHEDULE

BEAM SIZE	PLATE	FILLET WELD SIZE	BOLTS			DIMENSIONS	
			NO.	SIZE	TYPE	Lh	Lv
W10x / C10x	3/8	1/4	(2)	3/4"Ø	A325N	1 1/2"	1 1/2"

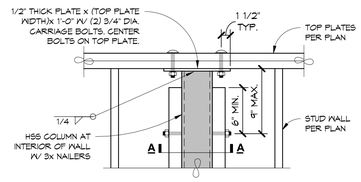
1. MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LATEST EDITION OF THE "SPECIFICATION FOR STRUCTURAL STEEL BUILDING" PUBLISHED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
2. ALL BUTT WELDS SHALL BE COMPLETE JOINT PENETRATION WELDS.
3. ALL WELDING OF STRUCTURAL STEEL MEMBERS SHALL BE DONE BY CURRENTLY CERTIFIED WELDERS AND DONE IN CONFORMANCE WITH THE A.I.S.C. AND A.W.S. SPECIFICATIONS. WELDING IS NOT PERMITTED ON MEMBERS SUPPORTING LOADS.
4. WHERE THE CONTRACTOR REQUESTS WELDING TO BE USED IN LIEU OF BOLTED CONNECTIONS, SUCH WELDING SHALL BE DONE ONLY WITH THE ENGINEERS PRIOR APPROVAL. WHERE EMBEDDED PLATES OCCUR WITH SHEAR TABS, CONTRACTOR HAS OPTION TO FIELD WELD STEEL BEAM TO SHEAR TAB TO FACILITATE ERECTION WITH APPROVAL FROM ENGINEER. EMBEDDED PLATE MAY BE OVERSIZED BY 1" IN EACH DIRECTION TO FACILITATE FIELD WELDING. ANY TESTING AND/OR INSPECTION THE ENGINEER MAY DEEM NECESSARY TO BE ASSURED OF THE QUALITY OF SUCH WELDING, SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.
5. A.S.T.M. A325 BOLTS SHALL BE USED UNLESS NOTED OTHERWISE. TWIST-OFF TYPE TENSION-CONTROL A.S.T.M. F1852 BOLT ASSEMBLIES MAY BE SUBSTITUTED FOR A.S.T.M. A325 BOLTS AT ANYTIME. WHERE A.S.T.M. A490 BOLTS ARE SPECIFIED ON THE PLANS TWIST-OFF TYPE TENSION-CONTROL A.S.T.M. F2280 BOLT ASSEMBLIES MAY BE SUBSTITUTED AT ANYTIME.
6. A.S.T.M. F1554 GRADE 36 ANCHOR BOLTS SHALL BE USED UNLESS NOTED OTHERWISE. A.S.T.M. F1554 GRADE 36 BOLTS MAY BE WELDED, WHILE GRADE 55 MAY BE WELDED ONLY IF IT IS ORDERED WITH SUPPLEMENT S1 AND THE CARBON EQUIVALENT FORMULA SPECIFIED IN SECTION S1.1.5.2.1 OF THE A.S.T.M. GRADE 105 BOLTS MAY NOT BE WELDED.
7. A.S.T.M. A563 HEAVY-HEX NUTS SHALL BE USED UNLESS NOTED OTHERWISE. SEE A.S.T.M. A563 FOR THE APPROPRIATE GRADE AND FINISH OF THE NUTS WHICH VARY ACCORDING TO APPLICATION.
8. A.S.T.M. F436 WASHERS SHALL BE USED UNLESS NOTED OTHERWISE. AT SLIP CRITICAL CONNECTIONS A.S.T.M. F959 COMPRESSIBLE-WASHER-TYPE DIRECT TENSION INDICATORS SHALL BE USED UNLESS TWIST-OFF-TYPE TENSION-CONTROL BOLT ASSEMBLIES WITH A.S.T.M. F436 WASHERS ARE USED.
9. A.S.T.M. A108 SHEAR STUD CONNECTORS SHALL BE USED UNLESS NOTED OTHERWISE. THE MECHANICAL REQUIREMENTS MUST MEET A.W.S. D1.1 TABLE 7.1 FOR TYPE B SHEAR STUDS CONNECTORS. (Fy=50 ksi, Fu=65 ksi)
10. HOLES PUNCHED OR DRILLED IN BEAMS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWING: HOLES FOR BOLTS SHALL BE 1/16" LARGER THAN THE NOMINAL DIAMETER OF THE BOLT WHERE CONNECTION IS OF SHEAR TYPE, AND 3/16" LARGER WHERE CONNECTION IS OF BEARING TYPE ON CONCRETE OR MASONRY.
11. ALL STRUCTURAL STEEL AND MISCELLANEOUS STEEL SHALL RECEIVE ONE SHOP COAT OF RED OXIDE, ZINC CHROMATE OR APPROVED EQUAL BASE.
12. ALL STEEL MEMBERS AND THEIR CONNECTIONS, EXPOSED TO EARTH OR WEATHER SHALL BE HOT DIPPED GALVANIZED, UNLESS NOTED OTHERWISE. CAP ALL VENT HOLES AT ENCLOSED HSS STEEL SECTIONS AND SEAL HOLES TO A WATER TIGHT CONDITION.
13. ALL STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO THE FOLLOWING A.I.S.C. STANDARDS:
    - W (WIDE FLANGE) AND WT SHAPES SHALL BE A.S.T.M. A992 (Fy=50 ksi, Fu=65 ksi)
    - M, MT, S AND ST SHAPES SHALL BE A.S.T.M. A36 (Fy=36 ksi, Fu=58 ksi)
    - CHANNELS, ANGLES, PLATES 1/2" THICK OR LESS AND MISCELLNEOUS STEEL, SHALL BE A.S.T.M. A36. (Fy=36 ksi, Fu=58 ksi)
    - PLATES GREATER THAN 1/2" THICK SHALL BE A.S.T.M. A572 GR. 50. (Fy=50 ksi, Fu=65 ksi)
    - HP SHAPES SHALL BE A.S.T.M. A572 (Fy=50 ksi, Fu=65 ksi)
    - RECTANGULAR AND SQUARE HSS SHALL BE A.S.T.M. A500 GRADE B (Fy=46 ksi, Fu=58 ksi)
    - ROUND HSS SHALL BE A.S.T.M. A500 GRADE B (Fy=42 ksi, Fu=58 ksi)
    - PIPE SHALL CONFORM TO A.S.T.M. A53 GRADE B (Fy=35 ksi, Fu=60 ksi)
14. ALL ENDS OF EXPOSED STRUCTURAL SHAPES ℄ HOLLOW STRUCTURAL SHAPED STEEL MEMBERS SHALL HAVE 1/4" CAP PLATE WITH PARTIAL PENETRATION WELDS, U.N.O., GRIND SMOOTH, A.E.S.S.
15. ALL STEEL BEAMS SHALL HAVE INSTALLED STANDARD MILL TOLERANCE UP, TYP., U.N.O.
16. FILLER METAL AND WELDING FLUX: E70XX IN ACCORDANCE WITH A.W.S. D1.1-2010.
17. WHERE LATERAL FORCE RESISTING COLUMNS OCCUR, A DOUBLE NUT SHALL BE PROVIDED ABOVE THE BASE PLATE AT ALL THREADED ROD/BOLT LOCATIONS.
18. CONTRACTOR SHALL PROVIDE AN ALLOWANCE EQUAL TO 2% OF THE BID FOR STRUCTURAL STEEL, MISCELLANEOUS IRON, AND REINFORCING STEEL TO BE USED AT THE DISCRETION OF THE STRUCTURAL ENGINEER. UNUSED PORTION TO REVERT TO THE OWNER UPON COMPLETION OF THE PROJECT.

J11 S103 KNIFE PLATE CONNECT. SCHED. — NOT TO SCALE

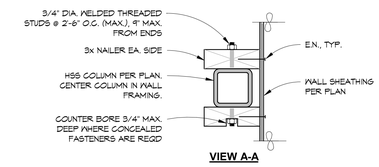
J14 S103 STEEL NOTES — NOT TO SCALE



END WALL LOCATION



INTERIOR WALL LOCATION



VIEW A-A

A14 S103 STEEL COLUMN WITH NAILERS — NOT TO SCALE

DSA File No.: *20-30*

DSA Application No.: *02-120517*

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120517 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

Agency Approval

BROOKS-RANSOM ASSOCIATES
Structural Engineers
Civil Engineers
7415 N. Palm Ave., Suite 100
Fresno, California 93711

2019

REGISTERED PROFESSIONAL ENGINEER
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EXPIRES 12-31-24
STATE OF CALIFORNIA

Consultant

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Project

TYPICAL STEEL NOTES AND DETAILS
Drawing

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LICENSED ARCHITECT
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Architect

No.	Revision/Submission	Date

Revision

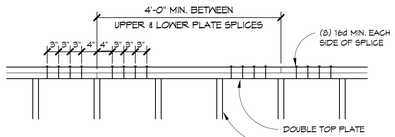
Designed By: BWY
Drawn By: BWY
Checked By: SOC
Reviewed By SOC

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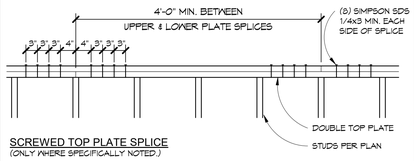
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Project Number: 2123
Date: 03/31/2023

S103

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NAILED TOP PLATE SPLICE, U.N.O.



SCREWED TOP PLATE SPLICE
(ONLY WHERE SPECIFICALLY NOTED.)

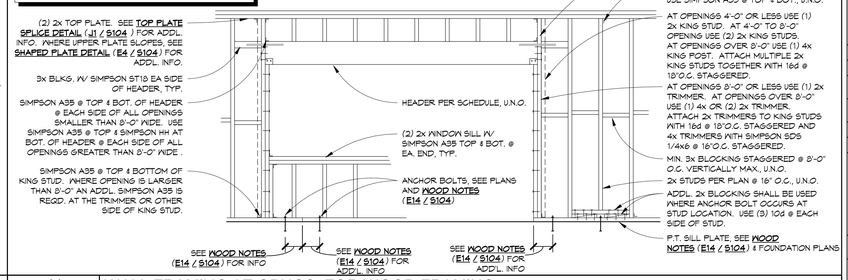
J1 TOP PLATE SPLICES FOR WOOD

S104 NOT TO SCALE

NOTES:
1. WHERE METAL FASTENERS AND HARDWARE ARE IN CONTACT WITH PRESERVATIVE-TREATED WOOD, SEE WOOD NOTES (E14 / S104) FOR ADDITIONAL REQUIREMENTS.
2. ALL WALL FRAMING REQUIREMENTS APPLY AT MULTI-LEVEL FRAMING OR OVER RAISED WOOD FLOORS, EXCEPT FOR P.T. SILL AND ANCHOR BOLTS.
3. HEADERS, TRIMMERS AND KING STUDS NOTED ON PLANS SUPERCEDE THIS DETAIL.

TYPICAL HEADER SIZE FOR OPENINGS, U.N.O.

OPENING WIDTH		2x6 LOAD BEARING WALL	NON-LOAD BEARING WALL PARTITIONS
0'-0" TO 3'-11"		N.A.	STUD WIDTH x4
4'-0" TO 7'-11"		N.A.	N.A.
8'-0" TO 10'-0"		STUD WIDTH x10	N.A.



J4 WALL FRAMING AT OPNGS. FOR WOOD FRAMING

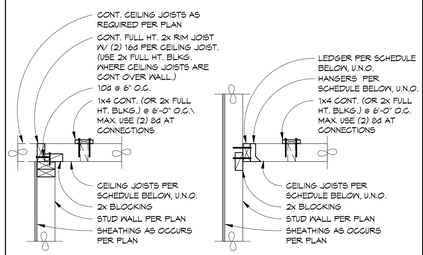
S104 NOT TO SCALE



NOTES:
1. AT DOUBLE TOP PLATE SPLICE LOCATIONS SEE TYPICAL TOP PLATE SPLICE DETAIL (J1 / S104) EXCEPT ATTACH FASTENERS FROM THE LOWER PLATE INTO THE UPPER PLATE.
2. PLYWOOD SHEATHING NOT SHOWN FOR CLARITY.

E4 SHAPED TOP PLATE

S104 NOT TO SCALE



PARTIAL HEIGHT WALL PARTIAL HEIGHT WALL

CEILING JOIST SCHEDULE

MAX SPAN.	SIZE/SPACING	SIMPSON HANGER	LEDGE SIZE / ATTACHMENT
UP TO 8'-0"	2x4 @ 16" O.C.	LUS24	2x4 W/ (2) 16d PER STUD

E7 CEILING JOIST SCHEDULE

S104 NOT TO SCALE

NAILING SCHEDULE [7]

#	CONNECTION	FASTENING [4,6,7,]	LOCATION
1.	JOIST TO SILL OR GIRDER	3 - 8d	TOENAIL
2.	BRIDGING TO JOIST	2 - 8d	TOENAIL EACH END
3.	1"x6" SUBFLOOR OR LESS TO EACH JOIST	2 - 8d	FACE NAIL
4.	1"x6" SUBFLOOR OR GREATER TO EACH JOIST	3 - 8d	FACE NAIL
5.	2" SUBFLOOR TO JOIST OR GIRDER	2 - 16d	BLIND & FACE NAIL
6.	SOLE PLATE TO JOIST OR BLOCKING	16d @ 16" O.C.	TYPICAL FACE NAIL
	SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL PANEL	3 - 16d @ 16"O.C.	BRACED WALL PANELS
7.	TOP PLATE TO STUD	2- 16d	END NAIL
8.	STUD TO SOLE PLATE	4 - 8d 2 - 16d	TOENAIL END NAIL
9.	DOUBLE STUDS	16d @ 24" O.C.	FACE NAIL
10.	DOUBLE 2x TOP PLATE	16d @ 16" O.C. 8 - 16d	FACE NAIL LAP SPLICE
	3x TOP PLATE OVER 2X PLATE	20d @ 16"O.C. 8 - 20d	FACE NAIL LAP SPLICE
11.	BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	3 - 8d	TOENAIL
12.	RIM JOIST TO TOP PLATE	8d @ 6" O.C.	TOENAIL
13.	TOP PLATES, LAPS & INTERSECTIONS	2 - 16d	FACE NAIL
14.	CONTINUOUS HEADER, TWO PIECES	16d	16" O.C. @ EDGE
15.	CEILING JOISTS TO PLATE	3 - 8d	TOENAIL
16.	CONTINUOUS HEADER TO STUD	4 - 8d	TOENAIL
17.	CEILING JOISTS LAPS OVER PARTITIONS	3 - 16d MIN. TABLE 2308.10.4.1	FACE NAIL
18.	CEILING JOISTS TO PARALLEL RAFTERS	3 - 16d TABLE 2308.10.4.1	FACE NAIL
19.	RAFTER TO PLATE	3 - 8d	TOENAIL
20.	1" DIAGONAL BRACE TO EACH STUD AND PLATE	2 - 8d	FACE NAIL
21.	1"x8" SHEATHING TO EA. BEARING	3 - 8d	FACE NAIL
22.	WIDER THAN 1"x8" SHEATHING TO EACH BEARING	3 - 8d	FACE NAIL
23.	BUILT-UP CORNER STUDS	16d	24" O.C.
24.	BUILT-UP GIRDER AND BEAMS	20d @ 32" O.C.	FACE NAIL @ TOP AND BOT. STAG. ON OPPOSITE SIDES
		2 - 20d	FACE NAIL @ ENDS AND @ EA. SPLICE
25.	2" PLANKS	16d	@ EACH BEARING
26.	COLLAR TIE TO RAFTER	3 - 10d	FACE NAIL
27.	JACK RAFTER TO HIP	3 - 10d 2 - 16d	TOENAIL FACE NAIL
28.	ROOF RAFTER TO 2x RIDGE BEAM	2 - 16d 2 - 16d	TOENAIL FACE NAIL
29.	JOIST TO BAND JOIST	3 - 16d	FACE NAIL
30.	LEDGER STRIP	3 - 16d	FACE NAIL
31.	WOOD STRUCTURAL PANELS AND PARTICLEBOARD, SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING)[3]	1/2" & LESS 19/32" to 3/4" 7/8" to 1" 1 1/8" to 1 1/4"	6d [1] 8d, 6d 8d 10d, 8d	-
	SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)[3]	3/4" & LESS 7/8" to 1" 1 1/8" to 1 1/4"	6d 8d 10d / 8d	-
32.	PANEL SIDING (TO FRAMING)	1/2" & LESS 5/8"	6d[2] 8d[2]	-
33.	FIBERBOARD SHEATHING[3]	1/2" 25/32"	6d 8d	-
34.	INTERIOR PANELING[5]	1/4" to 3/8"	6d	-

a. COMMON NAILS ARE REQUIRED TO BE USED U.N.O. COMMON NAIL PROPERTIES ARE AS FOLLOWS:
- 6d = 0.113"Ø x 2" LONG
- 8d = 0.131"Ø x 2 1/2" LONG
- 10d = 0.148"Ø x 3" LONG
- 16d = 0.162"Ø x 3 1/2" LONG
- 20d = 0.192"Ø x 4" LONG

b. NAILS SPACED AT 6" O.C. AT EDGES, 12" AT INTERMEDIATE SUPPORTS EXCEPT 6" AT SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305.
c. CORROSION-RESISTANT SIDING (6d - 1 1/8"x0.106"; 8d - 2 3/8"x0.128") OR CASING (8d - 2"x0.09"; 8d - 2 1/2"x0.113") NAIL.
d. FASTENERS SPACED 3" O.C. AT EXTERIOR EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS, ' WHEN USED AS STRUCTURAL SHEATHING. SPACING SHALL BE 6" O.C. EN. & 12" O.C. F.N. FOR NONSTRUCTURAL APPLICATIONS.
e. NAILS SPACED 6" ON PANEL EDGES, 12" AT INTERMEDIATE SUPPORTS.
f. ROOF SHEATHING APPLICATIONS, 8d ARE THE MINIMUM REQUIRED FOR WOOD STRUCTURAL PANELS.
g. NAILING DRIVEN INTO PRESERVATIVE TREATED WOOD SHALL BE HOT DIPPED GALVANIZED OR EQUIVALENT.
h. THIS SCHEDULE WILL GOVERN UNLESS NOTED OTHERWISE ON PLANS.
i. FASTENERS USED FOR THE ATTACHMENT OF EXTERIOR WALL COVERINGS SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL, WITH COATING PER A.S.T.M. A153.

E11 NAILING SCHEDULE

S104 NOT TO SCALE

1. ALL BOLTS SHALL BE MACHINE MADE TYPE F1554 GRADE 36 U.N.O.
2. BOLT HOLES IN WOOD SHALL BE OVERSIZED BY NOT MORE THAN 1/32".
3. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH STANDARD STEEL WASHERS UNDER HEAD AND NUTS WHICH BEAR ON WOOD ACCORDING TO THE WASHER SCHEDULE BELOW, U.N.O.

WASHER SCHEDULE

BOLT SIZE	STEEL PLATE SQUARE	MALLEABLE IRON ROUND	STANDARD CUT WASHER
1/2"Ø	2 x 2 x 1/4"	2 1/2"Ø x 1/4"	1 3/8"Ø x 7/64"
5/8"Ø	2 1/2 x 2 1/2 x 1/4"	2 3/4"Ø x 5/16"	1 3/4"Ø x 1/8"
3/4"Ø	3 x 3 x 5/16"	3"Ø x 3/8"	2"Ø x 5/32"
7/8"Ø	3 1/2 x 3 1/2 x 5/8"	3 1/2"Ø x 7/16"	2 1/4"Ø x 11/64"
1"Ø	3 3/4 x 3 3/4 x 7/16"	4"Ø x 1/2"	2 1/2"Ø x 11/64"
1 1/8"Ø	4 x 4 x 7/16"	4 1/2"Ø x 9/16"	2 3/4"Ø x 11/64"
1 1/2"Ø	4 1/4 x 4 1/4 x 1/2"	5"Ø x 5/8"	3 1/2"Ø x 3/16"

4. BOLTS AND SCREWS SHALL BE TIGHTENED AT TIME OF ERECTION AND RETIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.
5. ANCHOR AND/OR SILL BOLTS WITH UPSET THREADS ARE NOT PERMITTED.
6. ALL SILL PLATES SHALL BE BEDDED ON 1/2" CEMENT GROUT EXCEPT FOR NON-BEARING INTERIOR WALLS ON TRUE AND LEVEL FLOORS.
7. SILL PLATES UNDER ALL EXTERIOR AND BEARING WALLS SHALL BE BOLTED TO MASONRY OR CONCRETE WITH 5/8"Ø x 12" BOLTS SPACED NOT MORE THAN 6'-0" ON CENTER, WITH A MIN. OF 2 BOLTS FOR EACH PIECE OF SILL PLATE, U.N.O. SHEAR WALLS ABOVE 2 STORIES SHALL HAVE BOLTS SPACED NOT MORE THAN 4'-0" O.C., U.N.O. ALL SILL PLATE ANCHOR BOLTS SHALL HAVE MINIMUM 4" SQ. x 1/4" SLOTTED PLATE WASHERS (OR SIMPSON BPS) WITH A STANDARD CUT WASHER PLACED BETWEEN THE PLATE WASHER AND THE NUT, U.N.O. THE PLATE WASHER SHALL EXTEND TO WITHIN 1/2" OF THE EDGE OF THE BOTTOM PLATE ON THE SIDE(S) WITH SHEATHING.
8. ALL ANCHOR BOLTS IN WOOD SHALL BE SPACED 4 INCH MINIMUM AND 12 INCH MAXIMUM FROM END OF THE SILL PLATE, AND HAVE 7 INCH MINIMUM EMBEDMENT INTO CONCRETE OR MASONRY. ANY LOCATION WHERE A HOLE OR NOTCH LARGER THAN THE SILL PLATE THICKNESS OCCURS, SHALL HAVE ADDITIONAL ANCHOR BOLTS PLACED 4 INCHES TO 12 INCHES ON EACH SIDE OF THE HOLE OR NOTCH.
9. SILL PLATES AT ALL EXTERIOR WALLS AND INTERIOR WALLS THAT ARE COVERED WITH STRUCTURAL PLYWOOD (SHEAR PANEL) SHALL BE PRESSERVATIVE-TREATED D.F. 3x THICK WITH THE SAME WIDTH AS STUDS, U.N.O. ALL OTHER WALLS THE SAME EXCEPT SILL PLATES MAY BE 2x THICK. ALL PRESERVATIVE-TREATED D.F. SHALL BEAR THE AWPB QUALITY MARK. ALL CUTS OR HOLES SHALL BE PRE-TREATED PRIOR TO INSTALLATION.
10. NO SILL PLATE PIECE SHALL END WITHIN THE LENGTH OF SHEAR PANEL UNLESS SPECIFICALLY SHOWN AND DETAILED ON THE PLANS.
11. ALL EXPOSED FASTENERS SHALL HAVE ZINC-COATING CORROSION RESISTANCE.
12. ALL FASTENERS AND HARDWARE IN CONTACT WITH PRESSERVATIVE-TREATED OR FIRE RETARDANT WOOD SHALL BE HOT DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER. THE COATING WEIGHT FOR ZINC-COATED FASTENERS SHALL BE IN ACCORDANCE WITH A.S.T.M. A 153. EXCEPTION: FASTENERS OTHER THAN NAILS, TIMBER RIVETS, WOOD SCREWS AND LAG SCREWS SHALL BE PERMITTED TO BE OF MECHANICALLY DEPOSITED ZINC COATED STEEL WITH COATING WEIGHTS IN ACCORDANCE WITH A.S.T.M. B 695, CLASS 55 MIN.
13. BEARING WALLS AND PARTITIONS SHALL HAVE DOUBLE TOP PLATES.
14. ALL FASCIA BOARDS MUST BE CONTINUOUS WITH NO SPLICES ALLOWED WITHIN 12'-0" MINIMUM FROM FRAMING CORNERS, UNLESS NOTED OTHERWISE.
15. PLYWOOD NOTES:
   - IN HORIZONTAL PLYWOOD DIAPHRAGMS, NO PANEL LESS THAN 24" WIDE SHALL BE USED. IN VERTICAL PLYWOOD SHEAR WALLS, NO PANEL LESS THAN 12" WIDE SHALL BE USED. PLYWOOD SHEETS SHALL NOT BE LESS THAN 9 SQUARE FEET AT ANY LOCATION. PROVIDE FULL SHEETS OF PLYWOOD WHEREVER POSSIBLE
   - ANY PIECE OF PLYWOOD SPANNING ACROSS FEWER THAN 3 SUPPORTS SHALL BE BLOCKED ON ALL EDGES.
   - SHEAR WALL PLYWOOD SHALL BE BLOCKED AT ALL EDGES.
   - DIAPHRAGM AND SHEAR WALL NAILING SHALL CONFORM TO SECTION 2306.3 OF C.B.C. 2019.
   - NAILS SHALL NOT BE OVER DRIVEN AS TO CAUSE CRUSHING OF FACEPLY.
   - WHERE GLUING OF PLYWOOD IS REQUIRED, INSURE THAT CONTACT SURFACES ARE FREE OF DIRE, DUST, STANDING WATER OR OTHER DELETERIOUS MATTER. APPLY A BEAD OF GLUE ABOUT 1/4 INCH IN DIAMETER TO ALL CONTACT/ BEARING SURFACES. ON WIDE AREAS, APPLY GLUE IN SERPENTINE PATTERN. APPLY TWO BEADS OF GLUE ON JOISTS WHERE PANEL ENDS BUTT TO EACH OTHER. APPLY GLUE PROGRESSIVELY TO BUTTING EDGES OF PANELS AND INTO THE GROOVED EDGES OF TONGUE AND GROVE PANELS AS WORK PROGRESSES. ADHESIVE SHALL CONFORM TO A.P.A. SPEC AFG-01.
16. ALL STRUCTURAL WOOD SHALL CONFORM WITH THE FOLLOWING SPECIFICATIONS:
   - DOUGLAS FIR - LARCH . . . . . WCLIB OR WWPA RULES
   - PLYWOOD . . . . . U.S. PRODUCT STANDARD PS1-07 FOR STRUCTURAL PLYWOOD
17. MINIMUM GRADES SHALL BE AS FOLLOWS U.N.O. ON DRAWINGS:
   - STRUCTURAL FRAMING. . . . . DF NO. 1 OR BETTER
   - 4x AND LARGER AND POST. . . . . DF NO. 1 OR BETTER
   - STRUCTURAL PLYWOOD. . . . . PLYWOOD SHEATHING, GROUP 1, EXP. 1, U.N.O.
18. PREDRILL HOLES WHERE WOOD TENDS TO SPLIT.
19. WHERE LAG SCREWS ARE INDICATED, PROVIDE A FULL BODY DIAMETER LAG SCREW. THE SHANK SHALL EXTEND BEYOND THE ADJOINING MEMBER PLANE, U.N.O. LAG SCREWS SHALL NOT HAVE UPSET THREADS OR REDUCED BODY.
20. FOR LAG SCREWS, LEAD HOLE FOR THE UNTHREADED PORTION SHALL HAVE A DIAMETER EQUAL TO THE SHANK DIAMETER AND THREADED PORTION SHALL HAVE A DIAMETER EQUAL TO 65% OF THE SHANK DIAMETER. MINIMUM PENETRATION (NOT INCLUDING THE LENGTH OF TAPERED TIP) OF THE LAG SCREW INTO MAIN MEMBER SHALL BE EIGHT TIMES THE DIAMETER. LEAD HOLES ARE NOT REQUIRED FOR 3/8" AND SMALLER DIAMETER LAG SCREWS PROVIDED THAT EDGE DISTANCES, END DISTANCES, AND SPACING ARE SUFFICIENT TO PREVENT UNUSUAL SPLITTING.
21. SEE NAILING SCHEDULE (E11 / S104) FOR MINIMUM NAILING REQUIREMENTS.
22. USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOB SITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER AND D.S.A./O.S.H.P.D. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE APPROVED IN 5/16" PLYWOOD. IF NAIL HEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MIN. ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED, THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.

E14 WOOD NOTES

S104 NOT TO SCALE

DSA File No.: 20-30

DSA Application No.: 02-120517

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APP: 02-120517 INC:
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DATE: 04/25/2023
Agency Approval

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TYPICAL WOOD NOTES AND DETAILS
Drawing

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No.	Revision/Submission	Date

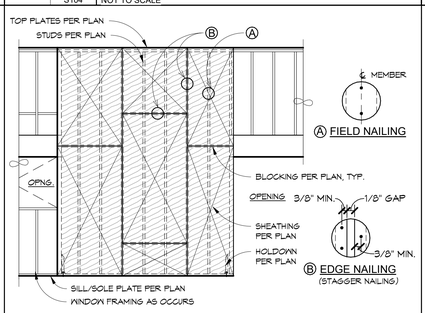
Revision

Designed By: BWY
Drawn By: BWY
Checked By: SOC
Reviewed By: SOC

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Scale: 12" = 1'-0"
Project Number: 2123
Date: 03/31/2023

S104



NOTES:
1. SHEAR WALLS LESS THAN ONE VERT. PANEL IN HEIGHT DO NOT REQUIRE STAGGERED PANELS.
2. SEE WOOD NOTES (E14 / S104) AND SHEARWALL SCHEDULE (A14 / S104) FOR ADDL. INFO.
3. SEE TYP. WALL FRAMING DETAIL (J4 / S104) FOR WALL CONST. INFO, U.N.O.

A4 SHEAR WALL ELEVATION (SEGMENTED)

S104 NOT TO SCALE

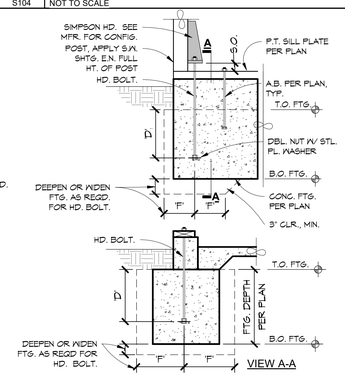
HOLDOWN SCHEDULE

MARK	SIMPSON HOLDOWN TYPE	MIN. POST SIZE (U.N.O. ON PLANS)	STAND OFF (S.O.) (INCHES)	HOLDOWN BOLT TYPES: SIMPSON PRE-ASSEMBLED ANCHOR BOLT (PAB) BOLT DIA. (IN.)	WASHER SIZE (IN x IN x IN THICK)	MIN EFFECTIVE DEPTH D (IN)	MIN. COVER F (IN)
A	HDU2-SDS2.5	(2) 2x [6]	1 3/8	5/8	1 3/4 x 1 3/4 x 3/8	6	9
B	HDU4-SDS2.5	(2) 2x [6]	1 3/8	5/8	1 3/4 x 1 3/4 x 3/8	6	9
D	HDU5-SDS2.5	4x	1 3/8	5/8	1 3/4 x 1 3/4 x 3/8	6	9

1. REFER TO THE LATEST EDITION OF THE SIMPSON STRONG-TIE CATALOG FOR HOLDOWN INSTALLATION INSTRUCTIONS AND FOR THE NUMBER AND TYPE OF FASTENERS REQUIRED FOR EACH TYPE OF HOLDOWN.
2. HOLDOWN BOLTS DO NOT REPLACE ADJACENT TYPICAL ANCHOR BOLTS.
3. WHERE BOLTS ATTACH HOLDOWN TO THE ADJACENT POST, NO COUNTER SINKING OF THE BOLTS IS ALLOWED.
4. DOUBLE NUTS SHALL BE SNUG TIGHT TO STEEL PLATE WASHER.
5. HOLDOWN BOLTS MUST BE TIED SECURELY INTO POSITION PRIOR TO THE POURING OF CONCRETE.
6. DOUBLE 2x POSTS MUST BE STITCH NAILED FULL HEIGHT WITH 10d @ 6" O.C., STAGGERED.
7. CONCRETE COMPRESSIVE STRENGTH OF 3,000PSI MIN.

A7 HOLDOWN SCHEDULE

S104 NOT TO SCALE



SHEAR WALL SCHEDULE

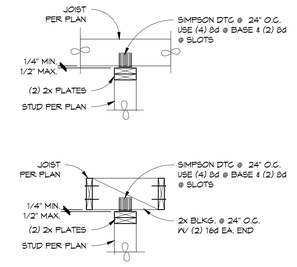
MARK	SHEATHING TYPE	SHEATHING NAILING (2)	SIMPSON SCREWS (3)	ANCHOR BOLTS (1)	COMMENT
B	15/32" STRUCT 1 PLYWOOD	10d @ 4:12	SDS 1/4x6" SCREWS @ 8" O.C.	32" O.C.	(5)
C	15/32" STRUCT 1 PLYWOOD	10d @ 3:12	SDS 1/4x6" SCREWS @ 6" O.C.	32" O.C.	(4) (5)

1. 5/8"Ø x 12" LONG (MIN.) ANCHOR BOLTS AT P.T. SILL PLATE, U.N.O. USE 3"x3"x1/4" SLOTTED WASHER PER C.B.C. 2305.1.2 (OR SIMPSON BPS) AT EACH ANCHOR BOLT. SEE WOOD NOTES (E14 / S104) FOR ADDITIONAL WASHER REQUIREMENTS.
2. ALL NAILS SHALL BE COMMON NAILS, DO NOT CRUSH FACEPLY. (I.E., 8-12 = 8" O.C. E.N., 12" O.C. F.N.)
3. SOLE PLATE ATTACHMENT AT WOOD FLOOR FRAMING CONDITIONS.
4. USE 3x MEMBERS MINIMUM AT PLYWOOD JOINTS AND SOLE/P.T. SILL PLATES.
5. BLOCK ALL PLYWOOD EDGES AND STAGGER NAILS ON EACH SIDE OF PLYWOOD JOINTS.
6. PLYWOOD SHALL NOT BE LESS THAN: 1'-4" IN LEAST DIMENSION OR 8 SQ. FT. IN AREA. SEE SHEAR WALL ELEVATION DETAIL (A4 / S104)
7. SHEAR WALLS MORE THAN ONE PANEL IN HEIGHT SHALL HAVE STAGGERED JOINTS.
8. FOR DOUBLE SIDED SHEAR WALLS, OPPOSING PLYWOOD JOINTS SHALL NOT OCCUR ON THE SAME FRAMING MEMBER.
9. PRE-DRILL ALL HOLES WHERE PLYWOOD TENDS TO SPLIT.

A14 SHEAR WALL SCHEDULE

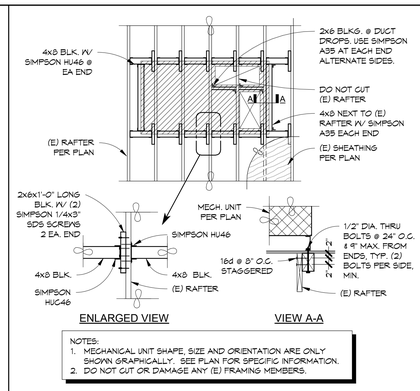
S104 NOT TO SCALE

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N11 S105 NON-BEARING WALL CONNECTION

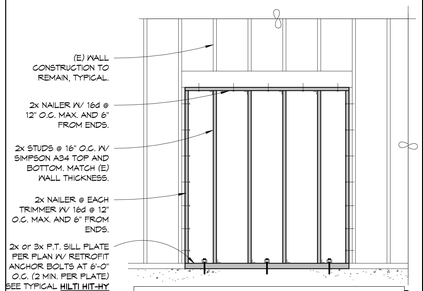
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NOTES:
1. MECHANICAL UNIT SHAPE, SIZE AND ORIENTATION ARE ONLY SHOWN GRAPHICALLY. SEE PLAN FOR SPECIFIC INFORMATION.
2. DO NOT CUT OR DAMAGE ANY (E) FRAMING MEMBERS.

N14 S105 MECH. UNIT ATTACH. FOR (E) WD FRMG

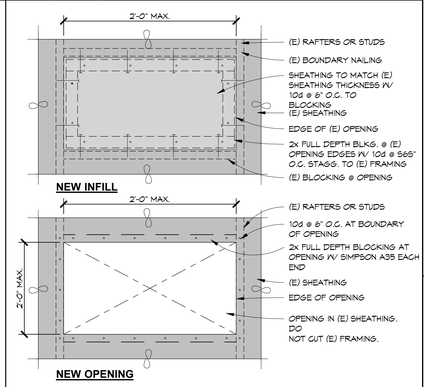
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NOTES:
1. AT WINDOW SILL APPLICATION REMOVE (E) SILL FRAMING, EXCEPT FOR (E) SILL PLATE AND ATTACHMENT, AND USE INFILL FRAMING AS NOTED ABOVE.
2. MATCH WALL SHEATHING TYPE, THICKNESS AND ATTACHMENT AT INFILL AREA TO (E) WALL.

J14 S105 INFILL WALL FRMG. FOR WD CONST.

NOT TO SCALE



E14 S105 OPENING OR INFILL IN (E) WOOD FRMG

NOT TO SCALE

DSA File No.: *20-30*

DSA Application No.: *02-120517*

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APP: 02-120517 INC:
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DATE: 04/25/2023

Agency Approval

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TYPICAL WOOD DETAILS
Drawing

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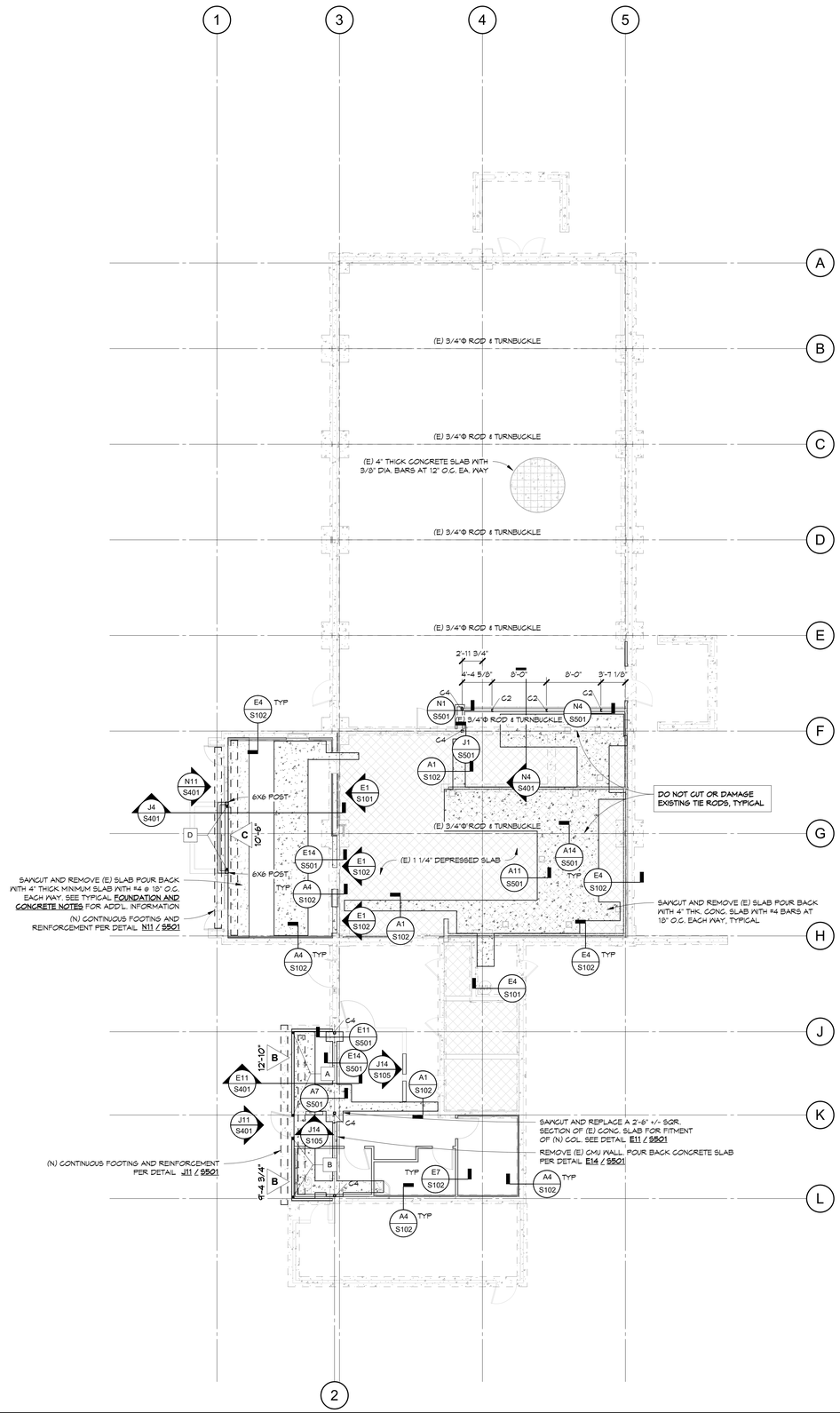
LICENSED ARCHITECT
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STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

	Designed By: BWY	Copyright 2023 Darden Architects
Scale: 12" = 1'-0"	Drawn By: BWY	S105
Project Number: 2123	Checked By: SOC	
Date: 03/31/2023	Reviewed By SOC	

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A1	Foundation Plan
S401 S201	1/8" = 1'-0"

1. SEE TYPICAL SHEETS FOR ALL GENERAL AND MATERIAL NOTES, AND ALL TYPICAL SCHEDULES AND DETAILS. THE INFORMATION ON THE TYPICAL SHEETS APPLY TO THE PROJECT AND ARE NOT SPECIFICALLY REFERENCED ON PLAN WORK, UNLESS NOTED OTHERWISE. IF TYPICAL DETAILS ARE SPECIFIED ON PLANS OR NOTES, THEY WILL BE REFERENCED WITH THE WORD "TYPICAL" FOLLOWED BY **BOLD AND UNDERLINED** TEXT STATING THE TITLE OF THE TYPICAL DETAIL OR NOTE.
2. ALL DIMENSIONS SHOWN ARE TO FACE OF EXTERIOR WALLS, CENTER OF COLUMN OR CENTER OF INTERIOR WALLS UNLESS NOTED OTHERWISE. EDGE OF SLAB AT PERIMETER OF BUILDING SHALL BE INDICATED IN SPECIFIC DETAILS AND ARCHITECTURAL. VERIFY ALL BUILDING DIMENSIONS WITH ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. NOTIFY THE ARCHITECT IMMEDIATELY IF THERE ARE ANY CONFLICTS WITH THE DIMENSIONS SHOWN.
3. ALL UNCLEAR AND/OR MISSING DETAILS SHALL BE BROUGHT TO THE STRUCTURAL ENGINEER'S ATTENTION BEFORE PROCEEDING WITH CONSTRUCTION.
4. ALL PAD AND CONTINUOUS FOOTINGS ARE TO BE CENTERED ON WALLS AND COLUMNS ABOVE UNLESS NOTED OTHERWISE.
5. SEE CIVIL AND/OR ARCHITECTURAL SITE PLAN FOR LOCATION AND DIMENSIONS OF SIDEWALKS, MOW STRIPS, PLANTERS AND OTHER LANDSCAPING FEATURES.
6. SEE ARCHITECTURAL AND PLUMBING PLANS FOR LOCATION OF ALL PIPING AND DRAINS. SEE TYPICAL DETAILS FOR STRUCTURAL REQUIREMENTS AT LOCATIONS WHERE PIPES INTERSECT OR ALIGN NEXT TO FOOTINGS AND SLABS.
7. ALL EMBEDDED ITEMS SHALL BE IN PLACE AND SECURED PRIOR TO POURING OF CONCRETE.
8. ALL SILL PLATE ANCHOR BOLTS SHALL BE SIZED, SPACED, PLACED, AND HAVE THE WASHER AND MATERIAL FINISH AS SPECIFIED IN THE **WOOD NOTES**. (**E14 / S104**)
9. CONTRACTOR SHALL SUBMIT CONTROL JOINT PLAN FOR APPROVAL PRIOR TO POURING SLAB.

   SEE TYPICAL **CONTROL JOINT** (**J11 / S102**) DETAIL FOR ADDITIONAL INFORMATION.
10. ALL EXTERIOR WALLS SHALL HAVE 15/32" SHEATHING WITH 10d @ 6"O.C. E.N. AND 10d @ 12"O.C. F.N., UNLESS NOTED OTHERWISE. SEE **WOOD NOTES** (**E14 / S104**) FOR SHEATHING MATERIAL.
11. ALL ITEMS ARE NEW UNLESS NOTED OTHERWISE.

N14	WOOD FOUNDATION NOTES
S201	NOT TO SCALE

BEARING WALL. ALL BEARING, EXTERIOR AND SHEAR WALLS SHALL BE 2x6 STUDS @ 16"O.C., U.N.O. SEE TYPICAL **WALL FRAMING AT OPENINGS FOR WOOD FRAMING** (**J4 / S104**) DETAIL.

NON-BEARING WALL. PROVIDE 2x STUDS @ 16"O.C. SEE ARCHITECTURAL PLANS FOR THICKNESS OF STUDS REQUIRED. SEE TYPICAL **NON-BEARING WALL** (**E4 / S102**) DETAIL FOR TOP OF WALL CONNECTION.

SHEAR WALL. X"-X" INDICATES THE MINIMUM SHEAR WALL LENGTH. IF THE LENGTH IS NOT NOTED, THEN THE LENGTH IS EQUAL TO THE TOTAL WALL LENGTH. SEE TYPICAL **SHEAR WALL SCHEDULE** (**A14 / S104**) AND BEARING WALL NOTE ABOVE.

HOLDOWN. HOLDOWNS MAY REQUIRE LARGER FOOTINGS NOT SHOWN. SEE TYPICAL **HOLDOWN SCHEDULE** (**A1 / S104**)

"XX" AS INDICATED ON PLAN. SEE TYPICAL **SCHEDULES** AS FOLLOWS:
- C# - COLUMN SCHEDULE
- P# - PILASTER SCHEDULE
- W# - WALL SCHEDULE
- F# - FOUNDATION SCHEDULE

F.F. +X'-X" — FINISHED FLOOR (*F.F.*) OR TOP OF FRAMING (*T.O.F.*). +X'-X" IS THE DISTANCE FROM FINISHED FIRST FLOOR, UNLESS NOTED OTHERWISE.

DEPRESSED SLAB. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

CONCRETE SLAB. PROVIDE 4" THICK MINIMUM SLAB WITH #4 @ 18" O.C. EACH WAY, U.N.O. SEE TYPICAL **FOUNDATION AND CONCRETE NOTES** (**2 / S201**) AND ARCHITECTURAL DRAWINGS FOR SUB-GRADE AND VAPOR BARRIER INFORMATION.

J14	WOOD LEGEND
S201	NOT TO SCALE

STRUCTURAL COLUMN SCHEDULE

MARK	TYPE	COMMENTS
C2	C4X7.2	
C4	HSS4X4X1/4	

E14	SCHEDULES
	NOT TO SCALE

DSA File No.: *20-30*

DSA Application No.: *02-120517*

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SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

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FOUNDATION PLAN
Drawing

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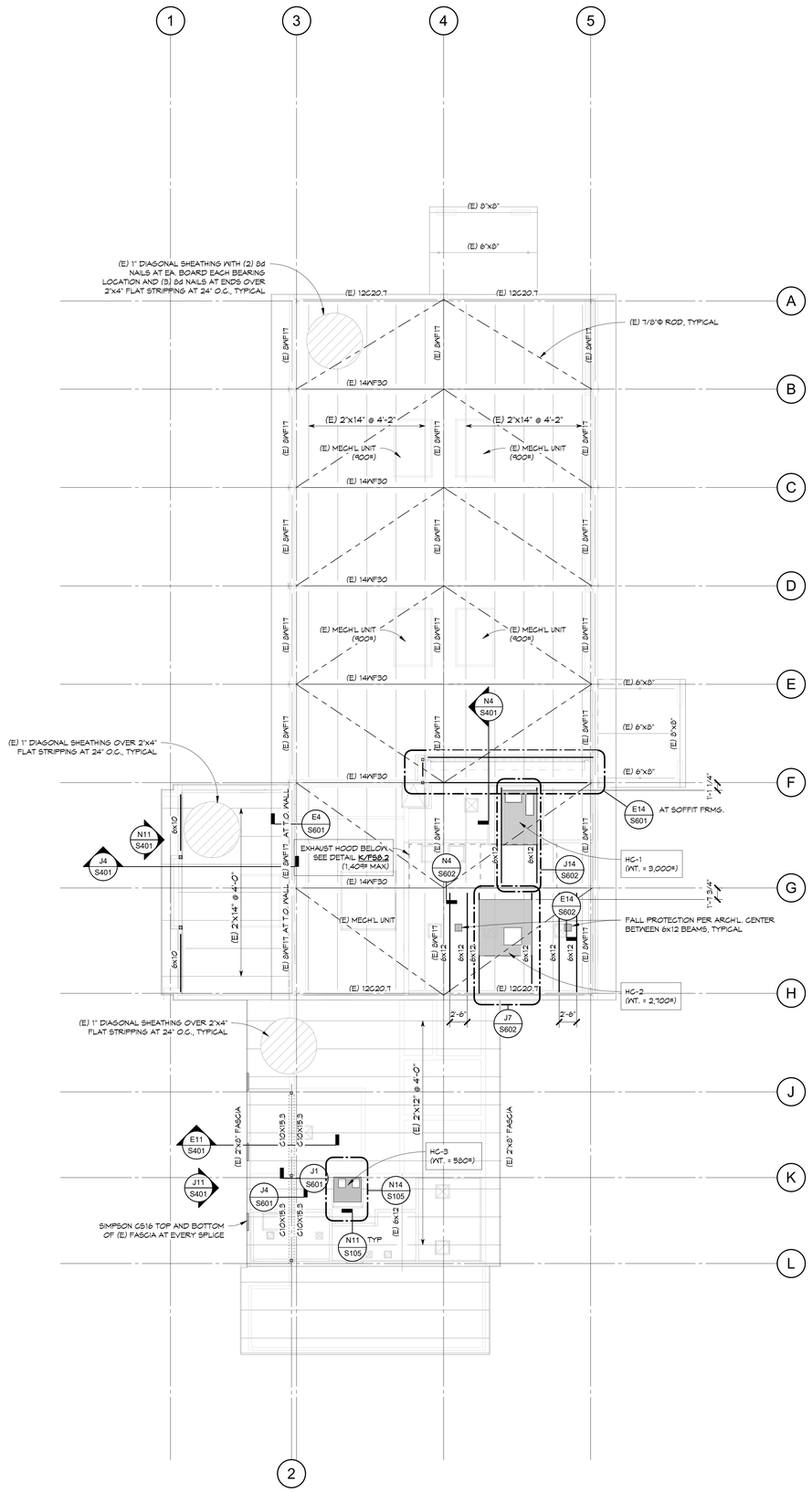
Architect

No.	Revision/Submission	Date

Revision

	Designed By: BWY	Copyright 2023 Darden Architects
Scale: As indicated	Drawn By: BWY	S201
Project Number: 2123	Checked By: SOC	
Date: 03/31/2023	Reviewed By SOC	

3/28/2023 7:55:27 AM
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1. SEE TYPICAL SHEETS FOR ALL GENERAL AND MATERIAL NOTES, AND ALL TYPICAL SCHEDULES AND DETAILS. THE INFORMATION ON THE TYPICAL SHEETS APPLY TO THE PROJECT AND ARE NOT SPECIFICALLY REFERENCED ON PLAN WORK, UNLESS NOTED OTHERWISE. IF TYPICAL DETAILS ARE SPECIFIED ON PLANS OR NOTES, THEY WILL BE REFERENCED WITH THE WORD "TYPICAL" FOLLOWED BY **BOLD AND UNDERLINED** TEXT STATING THE TITLE OF THE TYPICAL DETAIL OR NOTE.
2. ALL UNCLEAR AND/OR MISSING DETAILS SHALL BE BROUGHT TO THE STRUCTURAL ENGINEER'S ATTENTION BEFORE PROCEEDING WITH CONSTRUCTION.
3. ALL EXTERIOR WALLS AND EXTERIOR SOFFITS SHALL HAVE 15/32" SHEATHING WITH 10d @ 6"O.C. E.N. AND 10d @ 12"O.C. F.N., UNLESS NOTED OTHERWISE. SEE **WOOD NOTES** (E14 / S104) FOR SHEATHING MATERIAL.
5. VERIFY ROOF SLOPE(S) WITH ARCHITECTURAL PLANS.
6. SEE TYPICAL **MECHANICAL UNIT ATTACHMENT** (N14 / S105) DETAIL FOR ROOF MOUNTED EQUIPMENT. CONTRACTOR SHALL VERIFY AND COORDINATE WEIGHTS AND LOCATIONS OF ALL ROOF SUPPORTED MECHANICAL AND ELECTRICAL UNITS, AND NOTIFY THE STRUCTURAL ENGINEER OF RECORD IF ANY DISCREPANCIES ARE DETERMINED.
8. TOP PLATE SPLICES SHALL BE NAILED PER THE TYPICAL **TOP PLATE SPLICE** (J1 / S104) DETAIL.
9. WHERE FRAMING MEMBERS ARE BUILT UP OF MULTIPLE MEMBERS, SEE TYPICAL **MULTIPLE-MEMBER CONNECTION** (J1 / S104) DETAIL FOR FASTENER INFORMATION.
10. ALL FRAMING SHALL BE D.F. NO. 1 OR BETTER, UNLESS OTHERWISE NOTED. SEE TYPICAL **WOOD NOTES** (E14 / S104) ADDITIONAL INFORMATION.
11. COORDINATE WITH ARCHITECTURAL IF ADDITIONAL FRAMING BLOCKING IS REQUIRED FOR SUSPENDED CEILING, SOFFITS AND FINISHES.
12. DIAPHRAGM SHEATHING SHALL BE BOUNDARY NAILED TO ALL BLOCKING, BEAM AND RAFTERS THAT ARE IN LINE WITH SHEAR WALLS.
13. WHERE HEADERS ARE NOT SPECIFICALLY NOTED ON PLAN, SEE TYPICAL **WALL FRAMING AT OPENINGS** (J4 / S104) DETAIL FOR HEADER INFORMATION.
14. ALL ITEMS ARE NEW UNLESS NOTED OTHERWISE.

3 WOOD FRAMING NOTES
S301 NOT TO SCALE

BEARING WALL. ALL BEARING, EXTERIOR AND SHEAR WALLS SHALL BE 2x6 STUDS @ 16"O.C., U.N.O. SEE TYPICAL **WALL FRAMING AT OPENINGS FOR WOOD FRAMING** (J4 / S104) DETAIL.

NON-BEARING WALL. PROVIDE 2x STUDS @ 16"O.C. SEE ARCHITECTURAL PLANS FOR THICKNESS OF STUDS REQUIRED. SEE TYPICAL **NON-BEARING WALL** (N11 / S105) DETAIL FOR TOP OF WALL CONNECTION.

WALL BELOW. SEE FRAMING PLAN AT LEVEL BELOW.

F.F. +X'-X" FINISHED FLOOR (F.F.) OR TOP OF FRAMING (T.O.F.). +X'-X" IS THE DISTANCE FROM FINISHED FIRST FLOOR, UNLESS NOTED OTHERWISE.

HEADER. WHERE "SIZE" IS NOT INDICATED, SEE TYPICAL **WALL FRAMING AT OPENINGS FOR WOOD FRAMING DETAIL** (J4 / S104)

2 WOOD LEGEND
S301 NOT TO SCALE

1 ROOF FRAMING PLAN
S401 S301 1/8" = 1'-0"

DSA File No.: *20-30*

DSA Application No.: *02-120517*

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Agency Approval

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ROOF FRAMING PLAN
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No.	Revision/Submission	Date

Revision

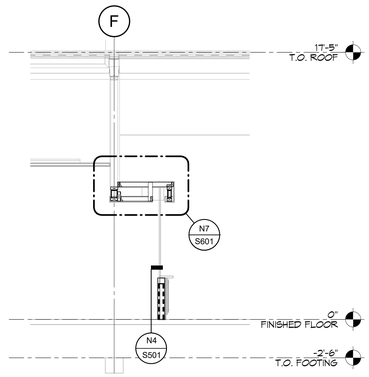
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Drawn By: BWY
Checked By: SOC
Reviewed By: SOC

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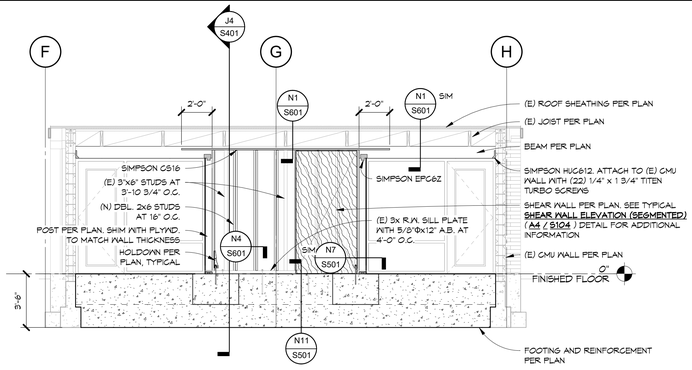
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Project Number: 2123
Date: 03/31/2023

S301

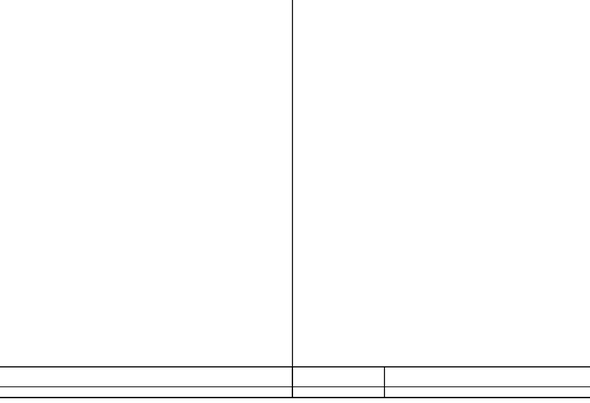
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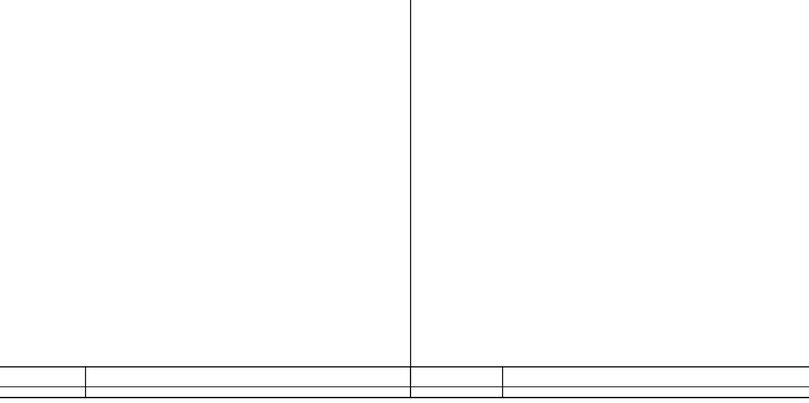
N4 SECTION
S201 S401 1/4" = 1'-0"



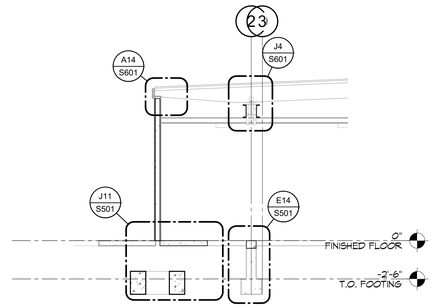
N11 ELEVATION
S201 S401 1/4" = 1'-0"



J4 SECTION
S201 S401 1/4" = 1'-0"



J11 ELEVATION
S201 S401 1/4" = 1'-0"



E11 SECTION
S201 S401 1/4" = 1'-0"

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Architect

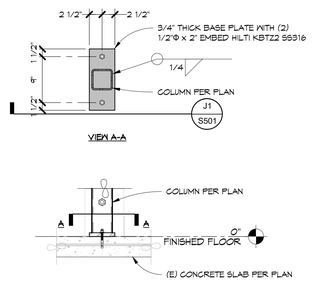
No.	Revision/Submission	Date

Revision

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Scale: 1/4" = 1'-0"
Drawn By: BWY
Project Number: 2123
Checked By: SOC
Date: 03/31/2023
Reviewed By SOC

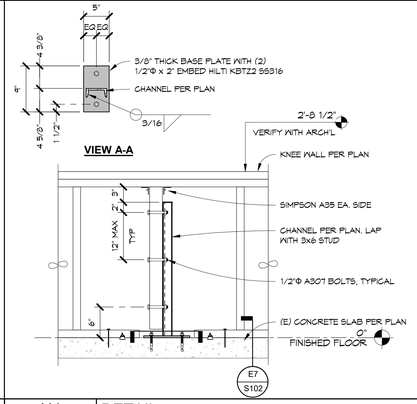
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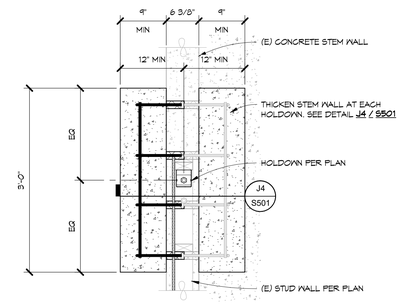


VIEW A-A

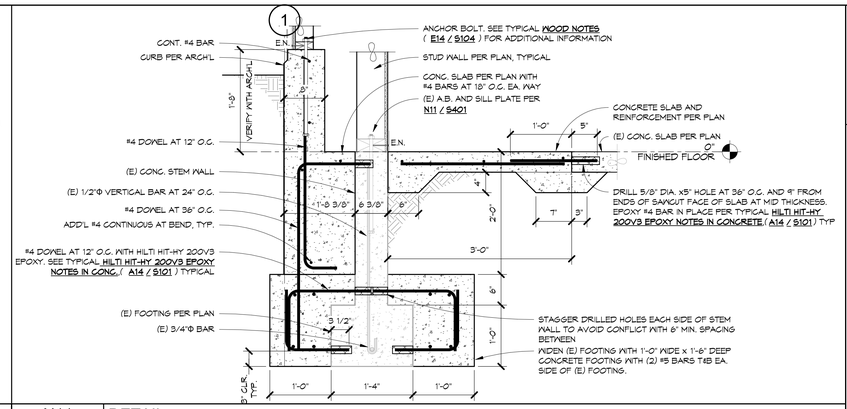
N1 DETAIL
S201 S501 1" = 1'-0"



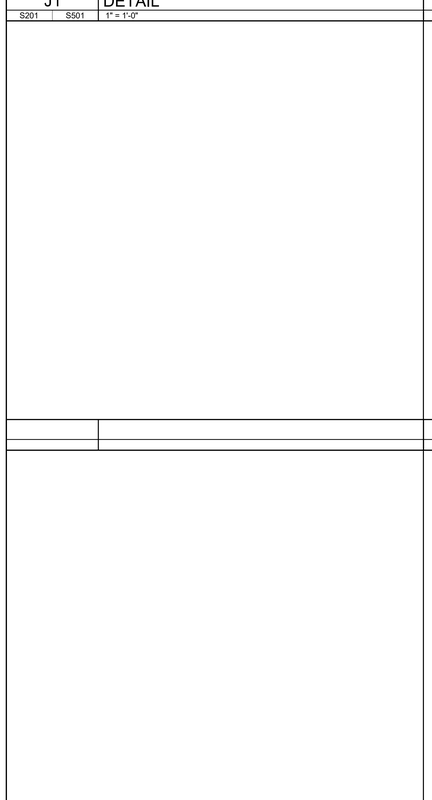
N4 DETAIL
S201 S501 1" = 1'-0"



N7 DETAIL
S401 S501 1" = 1'-0"

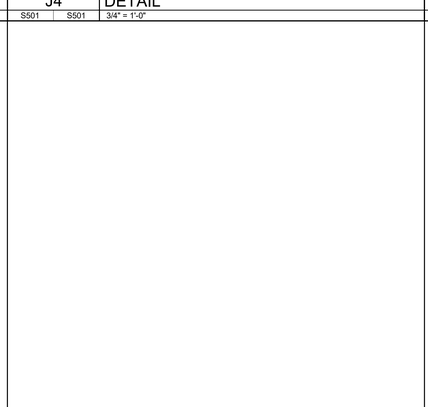


N11 DETAIL
S401 S501 1" = 1'-0"



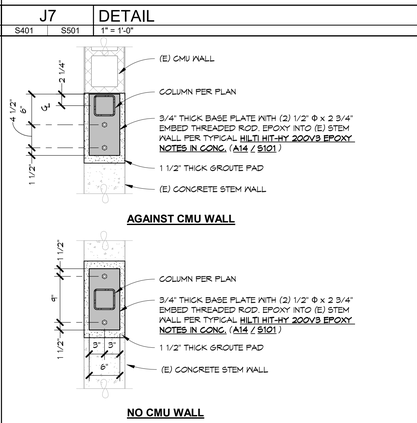
VIEW A-A

J1 DETAIL
S201 S501 1" = 1'-0"

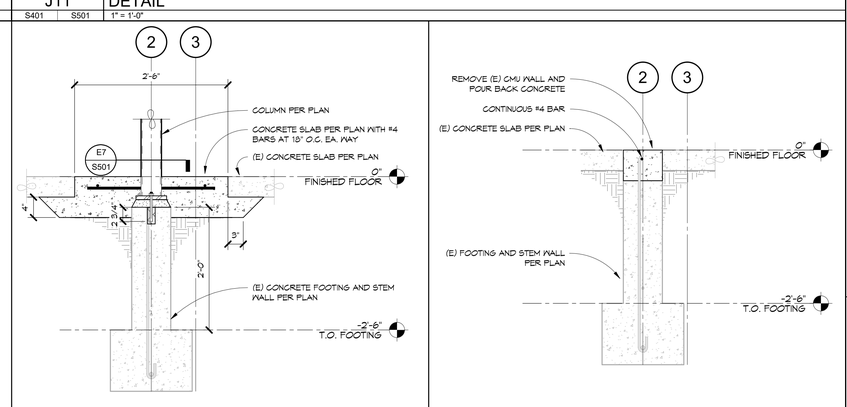


NOTE:
FOR ITEMS SEEN BUT NOT CALLED OUT, SEE DETAIL J11 / S501

J4 DETAIL
S501 S501 3/4" = 1'-0"

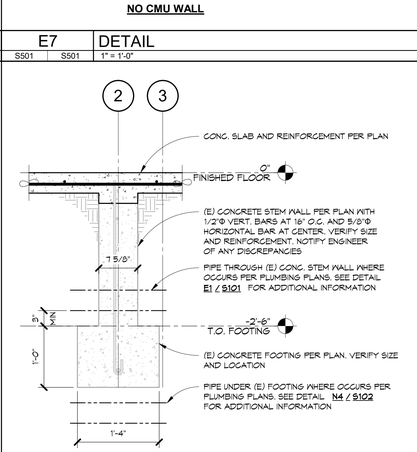


J7 DETAIL
S401 S501 1" = 1'-0"



NOTE:
FIELD VERIFY EXISTING CONDITIONS. NOTIFY ENGINEER OF ANY DISCREPANCIES

J11 DETAIL
S401 S501 1" = 1'-0"



AGAINST CMU WALL

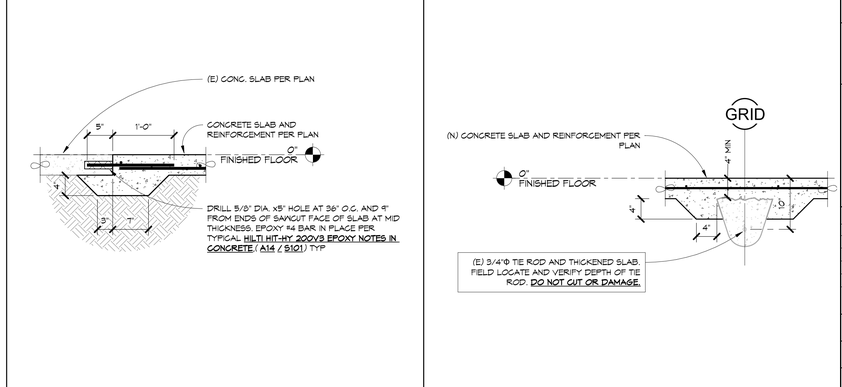
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E7 DETAIL
S501 S501 1" = 1'-0"

E11 DETAIL
S201 S501 1" = 1'-0"

E14 DETAIL
S201 S501 1" = 1'-0"

A7 DETAIL
S201 S501 1" = 1'-0"



A11 DETAIL
S201 S501 1" = 1'-0"

A14 DETAIL
S201 S501 1" = 1'-0"

DSA File No.:
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REG. 10-31-2023
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Architect

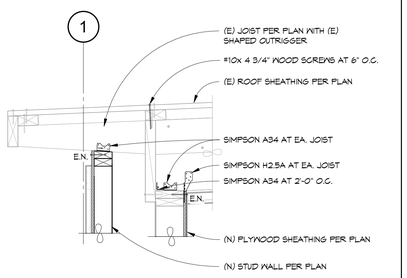
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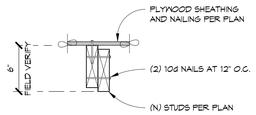
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S501

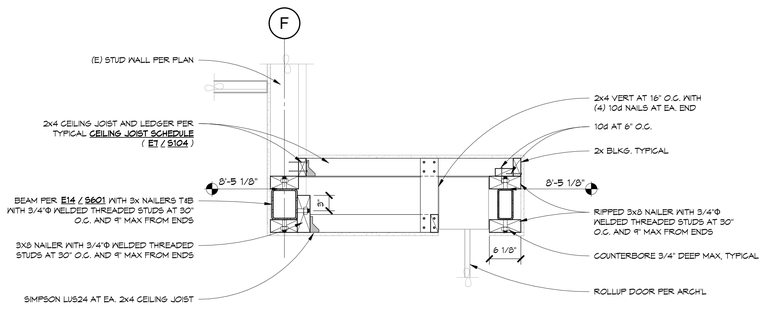
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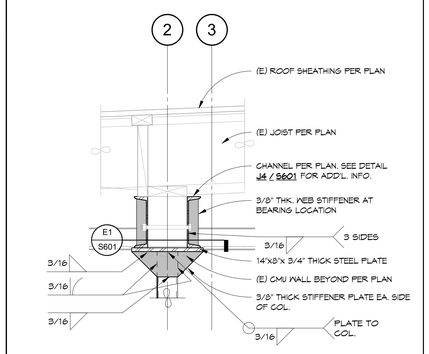
N1 DETAIL
S401 S601 1" = 1'-0"



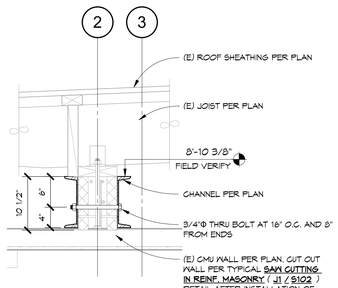
N4 DETAIL
S401 S601 1 1/2" = 1'-0"



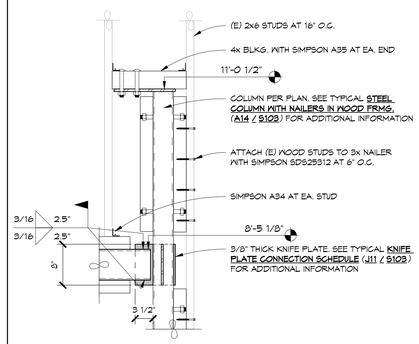
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S401 S601 1" = 1'-0"



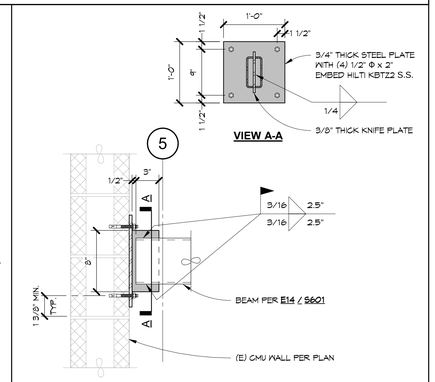
J1 DETAIL
S301 S601 1" = 1'-0"



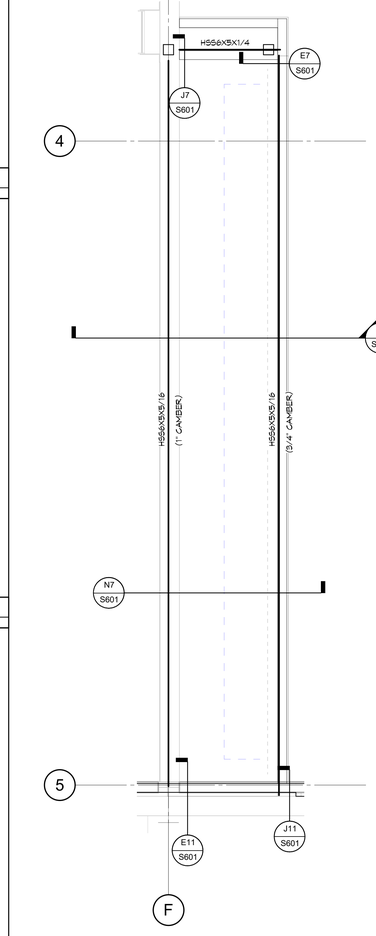
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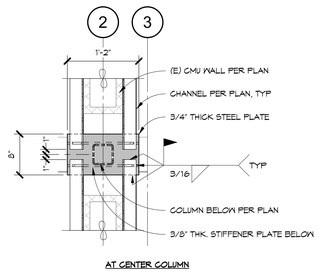


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S601 S601 1" = 1'-0"



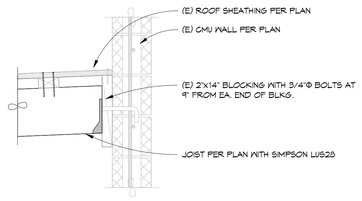
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S601 S601 1 1/2" = 1'-0"



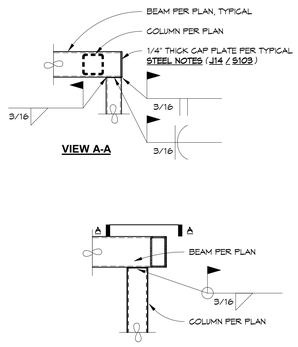


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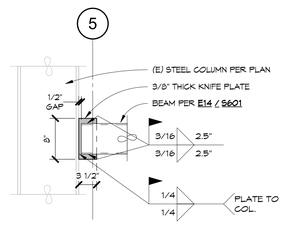
J1 DETAIL
S301 S601 1" = 1'-0"



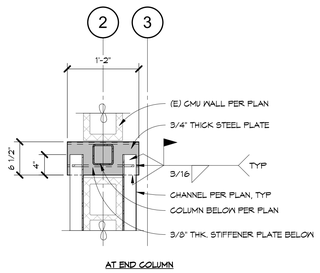
E4 DETAIL
S301 S601 1" = 1'-0"



E7 DETAIL
S601 S601 1" = 1'-0"

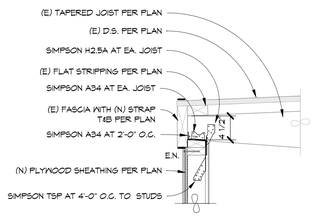


E11 DETAIL
S601 S601 1" = 1'-0"



AT END COLUMN

E1 DETAIL
S601 S601 1" = 1'-0"



NOTE:

FIELD VERIFY EXISTING CONDITIONS. NOTIFY ENGINEER OF ANY DISCREPANCIES

E14 SOFFIT FRAMING PLAN
S301 S601 1/2" = 1'-0"

A14 DETAIL
S401 S601 1" = 1'-0"

DSA File No.: *20-30*

DSA Application No.: *02-120517*

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120517 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

Agency Approval

BROOKS-RANSOM ASSOCIATES
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Civil Engineers
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Fresno, California 93711
2019

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EXPIRES 6-30-24
STATE OF CALIFORNIA

Consultant

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MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA
Project

DETAILS
Drawing

darden architects
ARCHITECTURE
PLANNING
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6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

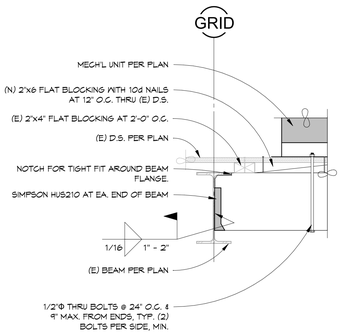
LICENSED ARCHITECT
GERARD J. AVILA
No. C26235
Exp. 10-31-23
STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

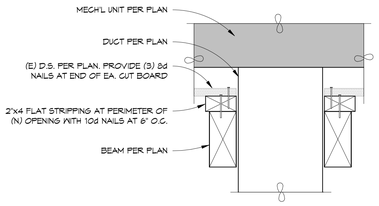
Revision

	Designed By: BWY	Copyright 2023 Darden Architects
Scale: As indicated	Drawn By: BWY	S601
Project Number: 2123	Checked By: SOC	
Date: 03/31/2023	Reviewed By SOC	

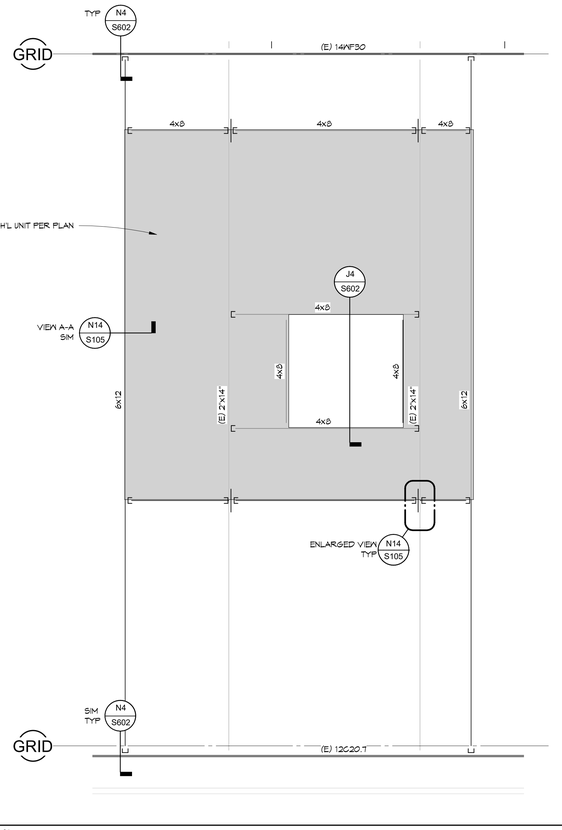
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N4 DETAIL
S602 S602 1" = 1'-0"



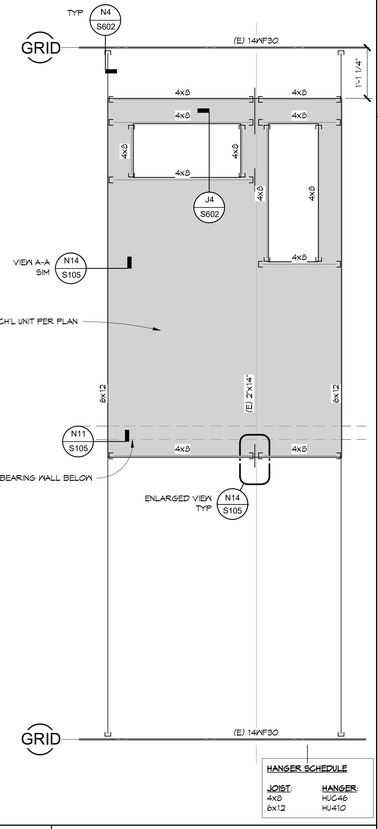
J4 DETAIL
S602 S602 1 1/2" = 1'-0"



HANGER SCHEDULE

JOIST:	HANGER:
4x8	HUC46
6x12	HU410

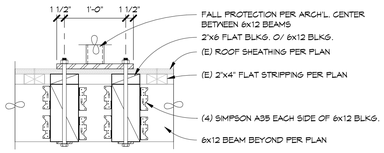
J7 DETAIL
S301 S602 3/4" = 1'-0"



HANGER SCHEDULE

JOIST:	HANGER:
4x8	HUC46
6x12	HU410

J14 DETAIL
S301 S602 3/4" = 1'-0"



E14 DETAIL
S301 S602 1" = 1'-0"

DSA File No.:
20-30

DSA Application No.:
02-120517

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DIV. OF THE STATE ARCHITECT
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SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

Agency Approval

General Notes

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2019

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Project

DETAILS

Drawing

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LICENSED ARCHITECT
ANTONIO J. AVILA
No. C26235
REG. 10-31-23
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: BWY	Copyright 2023 Darden Architects
Scale: As indicated	Drawn By: BWY	*S602*
Project Number: 2123	Checked By: SOC	
Date: 03/31/2023	Reviewed By SOC	

3/28/2023 7:55:38 AM
C:\Users\Brandon\Y\Documents\22019 (R20)_brandonyTU5ZN.rvt

GENERAL NOTES:

1. THE INTENT OF THE DRAWING AND SPECIFICATIONS IS TO CONSTRUCT THE BUILDING IN ACCORDANCE WITH THE 2019 EDITION OF TITLE 24, CALIFORNIA CODE OF REGULATIONS. CHANGES TO THE STRUCTURAL, ACCESSIBILITY OR FIRE AND LIFE-SAFETY PORTIONS OF THE APPROVED PLANS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR CONSTRUCTION CHANGE DOCUMENT AS REQUIRED IN SECTION 4-338, PART 1, TITLE 24, CCR, AND SHALL BE SUBMITTED TO AND APPROVED BY DSA PRIOR TO COMMENCEMENT OF THE WORK. DOCUMENTS SHALL BE PREPARED AND SUBMITTED TO DSA IN COMPLIANCE WITH DSA INTERPRETATION OF REGULATION IR A-6.

2. LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY. THE HVAC BUILDING PLANS HAVE BEEN PREPARED TO MATCH THE ARCHITECTURAL PLANS. IF DIFFERENCES OCCUR, THE ARCHITECTURAL PLANS ARE TO TAKE PRECEDENCE. THE ACTUAL LOCATIONS OF ALL MATERIALS, PIPING, DUCTWORK, FIXTURES, EQUIPMENT, SUPPORTS, ETC. SHALL BE CAREFULLY PLANNED, PRIOR TO INSTALLATION OF ANY WORK, TO AVOID ALL INTERFERENCE WITH EACH OTHER, OR WITH STRUCTURAL, ELECTRICAL, ARCHITECTURAL, OR OTHER ELEMENTS. ALL DUCT AND PIPE OFFSET ELBOWS FOR COORDINATION BETWEEN TRADES ARE NOT SHOWN. CONTRACTOR SHALL INCLUDE SUFFICIENT FUNDS FOR THE COORDINATION OFFSETS IN THE BID. VERIFY THE PROPER VOLTAGE AND PHASE OF ALL EQUIPMENT WITH THE ELECTRICAL PLANS. ALL CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER PRIOR TO THE INSTALLATION OF ANY WORK OR THE ORDERING OF ANY EQUIPMENT.

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

4. ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE THERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

5. PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25, 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., SMACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.
MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP):

MP☐ MD☐ PP☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☒ PP☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL MASON WEST OPM #0043-13.

6. PENETRATIONS THROUGH FIRE RATED WALLS, FLOOR/CEILING, AND ROOF/CEILING ASSEMBLIES SHALL BE SEALED USING AN APPROVED SYSTEM CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN SUBJECTED TO THE REQUIREMENTS OF THE TEST STANDARD SPECIFIC TO FIRE STOPS PER 2019 CBC SECTION 714. THIS INCLUDES EXISTING PIPE AND CONDUIT THROUGH NEW ASSEMBLIES. CUSTOM DESIGNED SYSTEMS WHICH COMBINE COMPONENTS FROM DIFFERENT APPROVED SYSTEMS BUT HAVE NOT BEEN TESTED AS A COMPLETE ASSEMBLY WILL NOT BE ACCEPTABLE. FOR FIRE STOPS FOR PIPE PENETRATIONS SEE SPECIFICATIONS.

7. DUCTWORK SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS. WHERE ACOUSTIC LINING IS SHOWN, INCREASE EACH SHEET METAL DIMENSION TO ACCOMMODATE LINING & MAINTAIN CLEAR INSIDE DUCT DIMENSIONS SHOWN.

8. SA DUCTWORK SHALL BE 1" PRESSURE CLASS, AND] RA & EA DUCTWORK SHALL 1" PRESSURE CLASS UNLESS OTHERWISE NOTED.

9. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

10. REFER TO DETAIL A/X/M102 FOR TYPICAL SA / BRANCH DUCT DETAIL.

PACKAGE AIR CONDITIONING SCHEDULE

DESIGNATION		HC 1	HC 2	HC 3
NAMEPLATE AMPS		18.2	20.5	20.5
MCA		20.2	22.5	42.4
MAX FUSE SIZE		25	30	60
VOLTS / PHASE		460 / 3	460 / 3	208/1
EER / SEER AT ARI		12.1 / -	11.2 / -	- / 14.0
BLOWER	CFM	3,700	3,414	515
	DUCT SP / TOTAL SP (IN WC)	-	1.2 / 1.96	18
	MIN. O.S.A. (CFM)	1,026	3474	150
	HP / SPEED / BHP	- / - / -	4 / - / 1.75	.5/-/LOW SPD.
	DRIVE	BELT	BELT	DIRECT
COOLING	SENSIBLE (MBH)	112.9	159.1	20.0
	TOTAL (MBH)	112.9	159.1	22.0
	EADB/EAWB (°F)	81.2 / 64.4	105 / 74	80/64
	AMBIENT (°F)	105	105	105
	REFRIGERANT	R-410A	R-410A	R-410A
HEATING	INPUT (MBH)	200.0	200.0	-
	OUTPUT (MBH)	160.0	160.0	-
	FUEL	NATURAL GAS	NATURAL GAS	-
	KW / STAGES	- / -	- / -	3.76 / 1
FILTERS	QUANTITY/SIZE	6 / 18x24x2	6 / 18x24x2	1/20x25/2
	TYPE	AP THIRTEEN	AP THIRTEEN	MERV-13
	PD (IN WC)	0.2	0.5	-
	EFFICIENCY (MERV)	13	13	-
MANUFACTURER		DAIKIN	DAIKIN	TRANE
TYPE		GAS / ELECTRIC	GAS / ELECTRIC	HEAT PUMP
MODEL NUMBER		DPS010A	DPS012A	4WCC4024A1000A
SERVICE		KIT.	KIT. MU	KIT. MU
OPER. WT. (LBS)		3,000	2,700	580
ACCESSORIES		1	2	2

1. MODULATING ECONOMIZER, W/ MODULATING EF, VARIABLE VOLUME, SINGLE POINT POWER CONNECTION.
2. OSA HOOD, VARIABLE VOLUME.

EXHAUST FAN SCHEDULE

DESIGNATION	EF 1A – EF 1B	EF 2A – EF 2B
CFM	75	2,220
ESP (IN WC)	.15	1.2
HP / WATTS / BHP	- / 16 / -	2 / - / 0.74
VOLTS / PHASE	120 / 1	208 / 1
RPM	642	1,368
TIP SPEED / SONES	- / 0.7	6,000 / 17.1
DRIVE	DIRECT	DIRECT
MOUNTING	CEILING	ROOF
MANUFACTURER	GREENHECK	GREENHECK
TYPE	CENTRIFUGAL	CENTRIFUGAL
MODEL NUMBER	SP-B90	CUE-160-VG
CONTROL	EMS	EMS
SERVICE	SEE PLAN	KIT. HOOD (1)
OPER. WT. (LBS)	12	125
ACCESSORIES		

(1) HOOD SUPPLIED & INSTALLED BY OTHERS.
REFER TO FS8.2 FOR HOOD ANCHORAGE DETAILS.

GRILLE SCHEDULE

MARK	DUTY	DESCRIPTION
A	CEILING SUPPLY	TITUS TDC (TYPE 3) LOUVER FACE SQUARE OR RECTANGULAR NECK DIFFUSER FOR STD. LAY-IN CEILING, AND NO. 26 OFF-WHITE FINISH. (18"X18" NECK ADAPTER SIZE SHOWN).
B	CEILING RETURN OR EXHAUST	TITUS CORE 50F (TYPE 3) ALUMINUM EGG CRATE REGISTER WITH 1/2" x 1/2" GRID, FOR LAY-IN CEILING, AND NO. 26 OFF-WHITE FINISH.
C	CEILING RETURN OR EXHAUST	TITUS CORE 50F (TYPE 1) ALUMINUM EGG CRATE REGISTER WITH 1/2" x 1/2" GRID, FOR SURFACE MOUNTING WITH NO. 26 OFF-WHITE FINISH.
D	WALL, CEILING OR DUCT RETURN	TITUS CORE 3FL (TYPE 1) ALUMINUM RETURN REGISTER WITH NO. 26 WHITE FINISH.
E	WALL SUPPLY	TITUS MODEL 1707 REGISTER WITH REMOVABLE CORE, O.B.D., 5 DEGREE UPWARD DEFLECTION, AND NO. 26 OFF-WHITE FINISH.
F	CEILING SUPPLY	TITUS TDC (TYPE 1) LOUVER FACE SQUARE OR RECTANGULAR NECK DIFFUSER FOR SURFACE MOUNTING, AND NO. 26 OFF-WHITE FINISH.

AIR CONDITIONING LEGEND

SYMBOL	ITEM	ABBR
	ROUND DUCT	Ø
	FLAT OVAL DUCT	⇔
	SHEET METAL DUCT	—
	ACOUSTIC LINING FOR DUCT OR GRILLES	(L)
	DUCT W/EXT INSULATION & GALV. SM SUNSHIELD	—
	SUPPLY AIR DUCT DROP	—
	RETURN AIR DUCT DROP	—
	EXHAUST DUCT AIR DROP	—
	SUPPLY AIR DUCT RISE	—
	RETURN AIR DUCT RISE	—
	EXHAUST AIR DUCT RISE	—
	TURNING VANES	TV
	EXTRACTOR	—
	VOLUME CONTROL DAMPER W/LOCKING QUADRANT	VCD
	OPPOSED BLADE DAMPER	OBD
	BACKDRAFT DAMPER	BDD
	VOLUME CONTROL DAMPER W/ REMOTE REGULATOR	VCR
& ■	FIRE/SMOKE DAMPER WITH ACCESS PANEL	F/SD
& ▲	FIRE DAMPER WITH ACCESS PANEL	FD
& ◆	SMOKE DAMPER WITH ACCESS PANEL	SD
CFM	CUBIC FEET OF AIR PER MINUTE	CFM
M	EMS MOTORIZED DUCT DAMPER/ PIPE VALVE ACTUATOR	—
T	THERMOSTAT @ +4'-0" TOP OF BOX	T'STAT
H	HUMIDISTAT @ +4'-0" TOP OF BOX	H'STAT
C	CO_2 SENSOR @ +4'-0" TOP OF BOX	CO_2
T	EMS TEMPERATURE SENSOR @ +4'-0" TOP OF BOX	—
H	EMS HUMIDITY SENSOR @ +4'-0" TOP OF BOX	—
C	EMS QO SENSOR @ +4'-0" TOP OF BOX	CO_2
SP	EMS STATIC PRESSURE SENSOR	SP
DP	EMS DIFFERENTIAL PRESSURE SENSOR	DP
CS	EMS CURRENT SENSOR	CS
	DIRECTION OF FLOW	—
	SUPPLY AIR	SA
	RETURN AIR	RA
	EXHAUST AIR	EA
	OUTSIDE AIR	OSA
	PIPE/DUCT TURN DOWN	—
	PIPE/DUCT TURN UP	—
	POINT OF CONNECTION	POC
	EXISTING (DESIGNATED)	(E)
	NEW (DESIGNATED)	(N)
SD	DUCT SMOKE DETECTOR	SD
A/V	AUDIBLE/VISUAL ALARM	A/VA
	BYPASS TIMER	BPT

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20-30

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SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

Agency Approval

General Notes

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4910 E. Clinton Way, Suite 101 Fresno, CA 93727
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KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
Madera, CA

Project

TYPICAL INFORMATION
MECHANICAL SCHEDULES

Drawing

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LICENSED ARCHITECT
ANTONIO J. ANTA
No. C26230
REN. 10-31-24
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: D.M.	Copyright 2023 Darden Architects
Scale: As Noted	Drawn By: LEG	
Project Number: 2123	Checked By: D.M.	X/M101
Date: 03/31/2023	Reviewed By: R.C.	

26 January 2023 2:12 PM P:\2021\21188 Madera USD Thomas Jefferson MS Kitchen Remodel\4-Drawings\4 M\M101 SCHEDULES.dwg david s

CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM

LISTING SERVICE

LISTING No. 2440-0941:0112

CATEGORY: 2440 -- INSULATION

LISTEE: 3M CompanyBldg 223-2N-20, St. Paul, MN 55144
Contact: Mark Lund (651) 733-0973 Fax (651) 737-2263
Email: mwlund@mmm.com

DESIGN: Model Fire Barrier Duct Wrap 615+ duct wrap insulation. Consists of nominal 1 ½ " thick, 6 pcf density blanket, sealed within foil scrim-polypropylene facing material. Refer to listee's data sheet for additional detailed product description and operational considerations.

RATING: Flame Spread: 10
Smoke Index: 0

INSTALLATION: In accordance with listee's printed installation instructions, applicable codes & ordinances and in a manner acceptable to the authority having jurisdiction.

MARKING: Listee's name, product label and Intertek label.

APPROVAL: Listed as duct wrap insulation for use in building construction. For horizontal and vertical commercial kitchen grease and air ventilation ducts. May be used in attic and crawl spaces of combustible construction limited to entry for service of utilities when separated from all open space as required by applicable building standards. Refer to listee's Installation Instructions Manual for details.

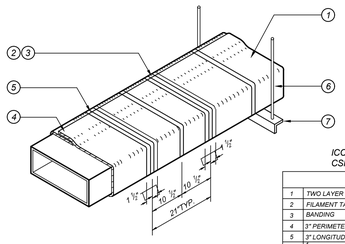
NOTE: For through penetration application, refer to CSFM Listing Cat. 4485 (Opening Protection-Firestopping). For other applications, please consult the authority having jurisdiction.

03-01-10

This listing is based upon technical data submitted by the applicant. CSFM Fire Engineering staff has reviewed the test results and/or other data but does not make an independent verification of any claims. This listing is not an endorsement or recommendation of the item listed. This listing should not be used to verify correct operational requirements or installation criteria. Refer to listee's data sheet, installation instructions and/or other

Date Issued: **July 01, 2022** *Listing Expires* **June 30, 2023**

Authorized By: ***VICTOR WONG**, Program Coordinator*
Fire Engineering Division



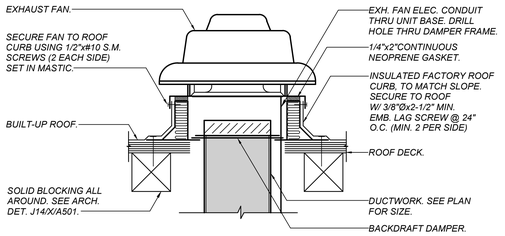
ICC-ES ESR-1255
CSFM #2440-0941:0112

LEGEND	
1	TWO LAYER 3M FIRE BARRIER DUCT WRAP 615+
2	FILAMENT TAPE
3	BANDING
4	3" PERIMETER OVERLAP
5	3" LONGITUDINAL OVERLAP
6	½" DIAMETER HANGER ROD
7	1 ½" x 1 ½" x 1 ⅛" ANGLE

FIRE RATED FOR DUCT SYSTEMS.

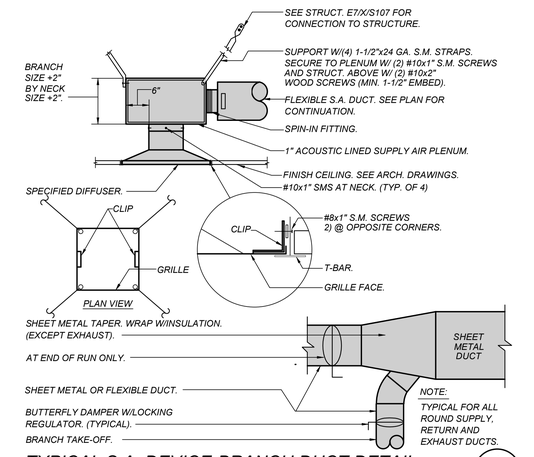
FIRE WRAP DETAIL

SCALE: NONE MP013 — D / X/M102



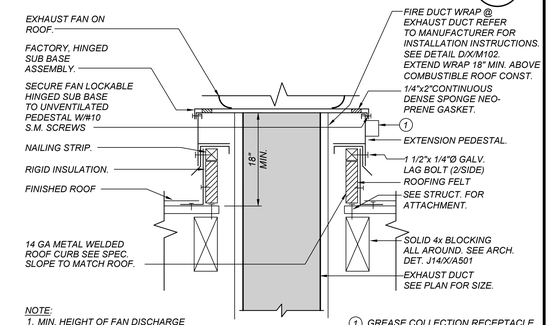
ROOF EXHAUST FAN MOUNTING DETAIL

SCALE: NONE MM120 — E / X/M102



TYPICAL S.A. DEVICE-BRANCH DUCT DETAIL

SCALE: NONE MD001 — A / X/M102

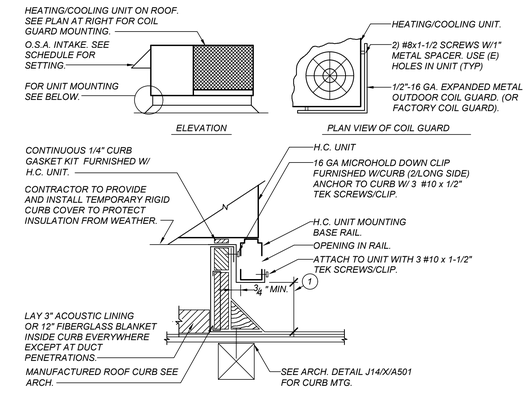


NOTE:
1. *MIN. HEIGHT OF FAN DISCHARGE FROM ROOF IS 40".*
2. *MIN. HEIGHT OF FIRE WRAP ABV. COMBUSTIBLE CONSTRUCTION IS 18".*

(1) *GREASE COLLECTION RECEPTACLE FURNISH w/FACTORY.*

KITCHEN EXHAUST FAN MOUNTING DETAIL

SCALE: NONE MM033 — B / X/M102



"CURB BASE TO MATCH ROOF SLOPE.

(1) *CURB TO HAVE A MINIMUM 8"-MIN. 12" MAX. CLEARANCE BETWEEN FINISH ROOF & BOTTOM OF HVAC EQUIPMENT & ACCESSORIES.*

H.C. UNIT ROOF MOUNTING DETAIL

SCALE: NONE MM117 — C / X/M102

DSA File No.: *20-30*

DSA Application No.: *02-120517*

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120517 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

Agency Approval

General Notes

LAWRENCE ENGINEERING GROUP
4910 E. Clinton Way, Suite 101 (559) 431-0101
Fresno, CA 93727 FAX (559) 431-1342
21188

REGISTERED PROFESSIONAL ENGINEER — JOHN W. CARLSON — No. M34846 Exp. 6-30-24 — MECHANICAL — STATE OF CALIFORNIA

Consultant

THOMAS JEFFERSON MIDDLE SCHOOL KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
Madera, CA

Project

TYPICAL INFORMATION
MECHANICAL DETAILS

Drawing

LICENSED ARCHITECT — ANTONIO J. AVILA — No. C-26235 — Exp. 10-31-2024 — STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: D.M.
Drawn By: LEG
Checked By: D.M.
Reviewed By: R.C.

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Scale: As Noted
Project Number: 2123
Date: 03/31/2023

X/M102

26 January 2023 2:12 PM P:\2021\21188 Madera USD Thomas Jefferson MS Kitchen Remodel\4-Drawings\4 MX\M102 DETAILS.dwg dsmit s

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CERTIFICATE OF COMPLIANCE — **NRCC-MCH-E**
Project Name: Jefferson Kitchen Remodel MUSD — Report Page: (Page 2 of 11)
Project Address: 1407 Sunset Ave — Date Prepared: 9/14/2022

C. COMPLIANCE RESULTS

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

01		02		03		04		05		06		07		08		09
System Summary §110.1, §110.2, §140.4	AND	Pumps §140.4(k)	AND	Fans/ Economizers §140.4(c), §140.4(e)	AND	System Controls §110.2, §120.2, §140.4(f)	AND	Ventilation §120.1	AND	Terminal Box Controls §140.4(d)	AND	Distribution §120.3, §140.4(l)	AND	Cooling Towers §110.2(d)2		Compliance Results
[See Table F]		[See Table G]		[See Table H]		[See Table I]		[See Table J]		[See Table K]		[See Table L]		[See Table M]		

Yes AND Yes AND Yes AND Yes AND Yes AND Yes AND Yes AND Yes AND Yes — **Mandatory Measures Compliance [See Table Q for Details]** — COMPLIES

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
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STATE OF CALIFORNIA
Mechanical Systems
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CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-MCH-E**
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.
Project Name: Jefferson Kitchen Remodel MUSD — **Report Page:** [Page 1 of 11]
Project Address: 1407 Sunset Ave — **Date Prepared:** 9/14/2022

A. GENERAL INFORMATION

01	Project Location (city)	Madera	04	Total Conditioned Floor Area	1865
02	Climate Zone	13	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1
☐	Office (B)	☐ Retail (M)	☐	Non-refrigerated Warehouse (S)	
☐	Hotel/ Motel Guest Rooms (R-1)	☐ School (E)	☐	Healthcare Facility (I)	
☐	High-Rise Residential (R-2/R-3)	☐ Relocatable Class Bldg (E)	☒	Other (write in)	See Table J

B. PROJECT SCOPE

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

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

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
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Form NRCC-PLB-E Domestic Water Heating System	14

BUILDING ENERGY ANALYSIS REPORT

PROJECT:

Jefferson Kitchen Remodel MUSD
1407 Sunset Ave
Madera, Ca 93637

Project Designer:

Darden Architects
6790 N. West Ave
Fresno, Ca 93711
559-448-8051

Report Prepared by:

Raj Gill
Lawrence Engineering Group
7084 N. Maple Ave Suite #101
Fresno , Ca 93720
559-431-0101 EXT. 108

Job Number:

21188

Date:

9/14/2022

The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2019 Building Energy Efficiency Standards.

This program developed by EnergySoft Software – www.energysoft.com.

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CERTIFICATE OF COMPLIANCE — **NRCC-MCH-E**
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Project Address: 1407 Sunset Ave — **Date Prepared:** 9/14/2022

H. FAN SYSTEMS & AIR ECONOMIZERS

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

System Name:	HC-1	Economizer:[3]	Differential Temperature	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Constant Volume

01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
SF	Supply	1	300	BHP	0.1	NA	
Total System Design Supply Airflow (CFM):			300	Total System Design (B)HP:	0.1	**Maximum System Fan Power (B)HP:**	

System Name:	HC-3	Economizer:[3]	NA: <=54 kBtu/h cooling	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Constant Volume

01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
SF	Supply	1	300	BHP	0.1	NA	
Total System Design Supply Airflow (CFM):			300	Total System Design (B)HP:	0.1	**Maximum System Fan Power (B)HP:**	

[1] *FOOTNOTES: Computer room economizers must meet requirements of §140.9(a) and will be documented on the NRCC-PRC-E document.*
[2] *The unit used for HP must be consistent for all fans within a system.*

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CERTIFICATE OF COMPLIANCE — **NRCC-MCH-E**
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Project Address: 1407 Sunset Ave — **Date Prepared:** 9/14/2022

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))

01	02	03	04	05	06	07	08	09
		Heating Mode				Cooling Mode		
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
HC-1	>=65,000 and <135,000		AFUE	0.80	0.8	EER IEER	11 12.7	12.1 12.1
HC-3	<65,000		HSPF	7.7	8	SEER	13.0	14

Boiler Efficiency and Controls

01	02	03	04	05	06	07	08	09
Name or Item Tag	Equipment Type[1]	Qty	Rated Input Capacity (Btu/h)[1,3]	Rated Efficiency	Minimum Efficiency Required per §110.2	Efficiency Unit	Boiler Controls per §140.4(k) Isolation Valve	Temperature Reset
BRADFORD WHITE EF-100T-250E	Hot Water, Gas-Fired	1	<300,000	0.96	0.82	AFUE	NA: only 1 boiler in plant	NA: <=500,00 Btu/h

[1] *FOOTNOTES: Use NRCC-PLB to document compliance with domestic water heating equipment.*
[2] *Maximum capacity- minimum and maximum ratings as provided for and allowed by the unit's controls*
[3] *Includes oil-fired (residual)*

G. PUMPS

This section does not apply to this project.

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
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CERTIFICATE OF COMPLIANCE — **NRCC-MCH-E**
Project Name: Jefferson Kitchen Remodel MUSD — **Report Page:** [Page 5 of 11]
Project Address: 1407 Sunset Ave — **Date Prepared:** 9/14/2022

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

This table is used to demonstrate compliance for mechanical equipment with mandatory requirements found in §110.1 and §110.2(a) and prescriptive requirements found in §140.4(a), §140.4(b) and §140.4(k) or §141.0(b)2 for alterations.

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

01	02	03	04	05	06	07	08	09	10	11
				Equipment Sizing per Mechanical Schedule (kBtu/h) §140.4 (a&b)						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
Name or Item Tag	Equipment Category per Tables 110.2	Equipment Type per Tables 110.2 / Title 20	Smallest Size Available[1] §140.4(a)	Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
HC-1	Unitary AC/ Condensers	AC, air-cooled pkg (3 phase)	NA: Load Controls	160	160	0	110.95	112.9	0	163.9
HC-3	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Load Controls	13	22	0	22.77	20	5.57	22.88

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

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Project Name: Jefferson Kitchen Remodel MUSD — **Report Page:** [Page 6 of 11]
Project Address: 1407 Sunset Ave — **Date Prepared:** 9/14/2022

J. VENTILATION AND INDOOR AIR QUALITY

[2] *For lecture halls with fixed seating, the expected number of occupants shall be shall be determined in accordance with the California Building Code.*
[3] *§120.2(e)3 requires systems serving rooms that are required by §130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by §130.1(c).*

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This table is used to show compliance with mandatory pipe insulation requirements found in §120.3 and prescriptive requirements found in §140.4(l) for duct leakage testing.

Duct Leakage Sealing

The answers to the questions below apply to the following duct systems:		HC-1	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities		
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.		
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.		
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:		
		☐ Outdoors		
		☐ In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces		
		☐ In an unconditioned crawl space		
		☐ In other unconditioned spaces		
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.		
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.		
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code		

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CERTIFICATE OF COMPLIANCE — **NRCC-MCH-E**
Project Name: Jefferson Kitchen Remodel MUSD — **Report Page:** [Page 7 of 11]
Project Address: 1407 Sunset Ave — **Date Prepared:** 9/14/2022

I. VENTILATION AND INDOOR AIR QUALITY

	Mechanical Ventilation Required per §120.1(c)3 [3]				Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [4]	
Space Name ot item Tag	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Zone 1	Cafeteria/ fastfood dining	1337			668.5	0	4440	DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				668	18	Ventilation for this System Complies?		Yes

04	05				06		07	
System Name	HC-3	System Design OA CFM Airflow[1]		79	System Design Transfer Air CFM	0	Air Filtration per §120.1(c) and §141.0(b)2 [2]	Provided per §120.1(c) (NR and Hotel/Motel)]

08	09	10	11	12	13	14	15	16
	Mechanical Ventilation Required per §120.1(c)3 [3]				Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [4]	
Space Name ot item Tag	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM	
Zone 3	All others	528			79.2	0	0	DCV: Provided per §120.1(d)4
								Occ Sensor: NA: Not required space type
17	Total System Required Min OA CFM				79	18	Ventilation for this System Complies?	Yes

[1] *FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system*
[2] *Air filtration requirements apply to the following three system types per §120.1(c)1A : space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.*
[3] *Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.*
[4] *See Standards Tables 120.1-A and 120.1-B.*

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CERTIFICATE OF COMPLIANCE — **NRCC-MCH-E**
Project Name: Jefferson Kitchen Remodel MUSD — **Report Page:** [Page 8 of 11]
Project Address: 1407 Sunset Ave — **Date Prepared:** 9/14/2022

I. SYSTEM CONTROLS

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

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats §110.2(b) & (c)[1], §120.2(a)for §141.0(b)2E	Shut-Off Controls §120.2(e)	Isolation Zone Controls §120.2(g)	Demand Response §110.12 and §120.2(h)	Supply Air Temp. Reset §140.4(f)	Window Interlocks per §140.4(n)
HC-1	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
HC-3	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided

[1] *FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*
*Notes: Controls with a * require a note in the space below explaining how compliance is achieved. EX: system 1: SA Temp Reset: Exempt because zones compliant with §140.4(d) ; EXCEPTION 1 to §140.4(f)*

J. VENTILATION AND INDOOR AIR QUALITY

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

01	☐	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☒	Check this box if the project included Nonresidential or Hotel/Motel spaces
	☐	Check this box if the project included new or altered high-rise residential dwelling units.
03	☐	Check the box if the project is using natural ventilation in any nonresidental or hotel/motel spaces to meet required ventilation rates per §120.1(c)2.

Nonresidential and Hotel/ Motel Ventilation Systems

04		05			06		07	
System Name	HC-1	System Design OA CFM Airflow[1]		4440	System Design Transfer Air CFM	0	Air Filtration per §120.1(c) and §141.0(b)2 [2]	Provided per §120.1(c) (NR and Hotel/(Motel))

08	09	10	11	12	13	14	15	16

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003 Schema Version: rev 20200601 — Report Generated: 2022-09-14 14:09:43

DSA File No.: *20-30*

DSA Application No.: *02-120517*

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120517 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

Agency Approval

General Notes

LAWRENCE ENGINEERING GROUP
4910 E. Clinton Way, Suite 101 Fresno, CA 93727
(559) 431-0101 21188 FAX (559) 431-1362

REGISTERED PROFESSIONAL ENGINEER — RAJ W. GILL — No. M34846 Exp. 6-30-24 — MECHANICAL — STATE OF CALIFORNIA

Consultant

THOMAS JEFFERSON MIDDLE SCHOOL KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
Madera, CA

Project

TYPICAL INFORMATION
TITLE 24 DOCUMENTS

Drawing

darden architects
ARCHITECTURE PLANNING INTERIORS
www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

LICENSED ARCHITECT — ANTONIO J. AVILA — No. C-26216 — 10-31-24 — STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: D.M. — Copyright 2023 Darden Architects
Scale: As Noted — Drawn By: LEG
Project Number: 2123 — Checked By: D.M.
Date: 03/31/2023 — Reviewed By: R.C.

X/M103

26 January 2023 2:12 PM P:\2021\21188 Modesto USD Thomas Jefferson MS Kitchen Remodel\4 Working\4 M\XM103-XM104 - TITLE 24 DOCUMENTS.dwg david s

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	Jefferson Kitchen Remodel MUSD	Report Page:	(Page 11 of 11)
Project Address:	1407 Sunset Ave	Date Prepared:	9/14/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Documentation Author Signature:
Raj Gill	Raj Gill
Company: Lawrence Engineering Group	Signature Date: 9/14/2022
Address: 7084 N. Maple Ave Suite #101	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Fresno Ca 93720	Phone: 559-431-0101 EXT. 108

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

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

Responsible Designer Name:	Responsible Designer Signature:
Ryan Carlson	Ryan Carlson
Company: Lawrence Engineering Group	Date Signed: 2022-09-14
Address: 4910 E. Clinton Way Suite 101	License: CA #M34846
City/State/Zip: Fresno Ca 93727	Phone: 559-431-0101

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft

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CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	Jefferson Kitchen Remodel MUSD	Report Page:	(Page 10 of 11)
Project Address:	1407 Sunset Ave	Date Prepared:	9/14/2022

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title	Systems/Spaces To Be Field Verified	Field Inspector Pass	Field Inspector Fail
NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	Daikin #DPS010A HC-1; Trane #4WCC4024 HC-3;	☐	☐
NRCA-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes". If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".	Daikin #DPS010A HC-1; Trane #4WCC4024 HC-3;	☐	☐
NRCA-MCH-05-A - Air Economizer Controls	Daikin #DPS010A HC-1; Trane #4WCC4024 HC-3;	☐	☐
NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints.	Daikin #DPS010A HC-1; Trane #4WCC4024 HC-3;	☐	☐
NRCA-MCH-11-A Automatic Demand Shed Controls	Daikin #DPS010A HC-1; Trane #4WCC4024 HC-3;	☐	☐
NRCA-MCH-12-A FDD for Packaged Direct Expansion Units	Daikin #DPS010A HC-1;	☐	☐
NRCA-MCH-16-A Supply Air Temperature Reset Controls	Daikin #DPS010A HC-1; Trane #4WCC4024 HC-3;	☐	☐
NRCA-MCH-18-A Energy Management Control Systems	Daikin #DPS010A HC-1; Trane #4WCC4024 HC-3;	☐	☐

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

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

01	02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	Yes — M-Sheets

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003, Schema Version: rev 20200601 — Report Generated: 2022-09-14 14:09:43

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	Jefferson Kitchen Remodel MUSD	Report Page:	(Page 9 of 11)
Project Address:	1407 Sunset Ave	Date Prepared:	9/14/2022

L. DISTRIBUTION (DUCTWORK and PIPING)

The answers to the questions below apply to the following duct systems: HC-3 — Duct leakage testing triggered for these systems? No

11	No	The scope of the project includes only duct systems serving healthcare facilities
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:
	☐	Outdoors
	☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces
	☐	In an unconditioned crawl space
	☐	In other unconditioned spaces
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector Pass	Field Inspector Fail
NRCI-MCH-01-E - Must be submitted for all buildings	☐	☐

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003, Schema Version: rev 20200601 — Report Generated: 2022-09-14 14:09:43

STATE OF CALIFORNIA
Domestic Water Heating System
NRCC-PLB-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
Project Name:	Jefferson Kitchen Remodel MUSD	Report Page:	(Page 3 of 4)
Project Address:	1407 Sunset Ave	Date Prepared:	9/14/2022

J.DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to service water heating requirements.

K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003, Schema Version: rev 20200601 — Report Generated: 2022-09-14 14:09:43

STATE OF CALIFORNIA
Domestic Water Heating System
NRCC-PLB-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
Project Name:	Jefferson Kitchen Remodel MUSD	Report Page:	(Page 2 of 4)
Project Address:	1407 Sunset Ave	Date Prepared:	9/14/2022

C. COMPLIANCE RESULTS

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

01	02	03	04
Domestic Hot Water Equipment	Distribution Systems	Controls	**Compliance Results**
Table F	Table G	Table H	
	Yes		COMPLIES

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

F. DOMESTIC HOT WATER EQUIPMENT

This section does not apply to this project.

G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

This section does not apply to this project.

H. DOMESTIC HOT WATER CONTROLS

This section does not apply to this project.

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector Pass	Field Inspector Fail
NRCI-PLB-01-E - Must be submitted for all buildings	☐	☐

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003, Schema Version: rev 20200601 — Report Generated: 2022-09-14 14:09:43

STATE OF CALIFORNIA
Domestic Water Heating System
NRCC-PLB-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
Project Name:	Jefferson Kitchen Remodel MUSD	Report Page:	(Page 1 of 4)
Project Address:	1407 Sunset Ave	Date Prepared:	9/14/2022

This document is used to demonstrate compliance for nonresidential occupancies with requirements in §110.1, §110.3, §120.3, and §140.5, and with requirements in §141.0 for additions and alterations, for domestic water heating scopes using the prescriptive path. For high-rise residential and hotel/motel occupancies compliance is demonstrated with requirements in §110.1, §110.3, §120.3, §150.0 and §150.1(c)8, and with requirements §150.2 for additions.

A. GENERAL INFORMATION

01	Project Location (city)	Madera	02	Climate Zone	13
03	Occupancy Types Within Project (select all that apply):				
☒	Nonresidential	☐ High-Rise Residential	☐ Hotel/Motel		
☐	State Building	☐ Healthcare Facility	☐ Other (Write In)		

B. PROJECT SCOPE

This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in §140.5, §150.1(c)8, and §141.0(a), or §141.0(b)2N for additions or alterations. Solar water heating systems are documented on the NRCC-SRA compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document.

01	02	03		
My project consists of (check all that apply):	System Type[1,2]	System Components		
☐ New system (DHW system being installed for the first time in newly constructed building)		☐ Equipment	☐ Distribution	☐ Controls
☐ System Alteration (equipment, distribution or controls)		☐ Equipment	☐ Distribution	☐ Controls

[1] *FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.*

[2] *Dwelling units refers to hotel/motel guest rooms and units in a high-rise residential occupancy.*

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003, Schema Version: rev 20200601 — Report Generated: 2022-09-14 14:09:43

STATE OF CALIFORNIA
Domestic Water Heating System
NRCC-PLB-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
Project Name:	Jefferson Kitchen Remodel MUSD	Report Page:	(Page 4 of 4)
Project Address:	1407 Sunset Ave	Date Prepared:	9/14/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Documentation Author Signature:
Raj Gill	Raj Gill
Company: Lawrence Engineering Group	Signature Date: 9/14/2022
Address: 7084 N. Maple Ave Suite #101	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Fresno Ca 93720	Phone: 559-431-0101 EXT. 108

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

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

Responsible Designer Name:	Responsible Designer Signature:
Ryan Carlson	Ryan Carlson
Company: Lawrence Engineering Group	Date Signed: 2022-09-14
Address: 4910 E. Clinton Way Suite 101	License: CA #M34846
City/State/Zip: Fresno Ca 93727	Phone: 559-431-0101

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003, Schema Version: rev 20200601 — Report Generated: 2022-09-14 14:09:43

DSA File No.: *20-30*

DSA Application No.: *02-120517*

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120517 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

Agency Approval

General Notes

LAWRENCE ENGINEERING GROUP
4910 E. Clinton Way, Suite 101 (559) 431-0101 — Fresno, CA 93727 FAX (559) 431-1342
RECERTIFY PROFESSIONAL ENGINEER — RYAN W. CARLSON — No. M34846 Exp. 6-30-24 — MECHANICAL — STATE OF CALIFORNIA
21188

Consultant

THOMAS JEFFERSON MIDDLE SCHOOL KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
Madera, CA

Project

TYPICAL INFORMATION
TITLE 24 DOCUMENTS

Drawing

darden architects
ARCHITECTURE PLANNING INTERIORS
www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051
LICENSED ARCHITECT — ANTONIO J. AVILA — No. C26235 — Renl. 10-31-24 — STATE OF CALIFORNIA

Architect

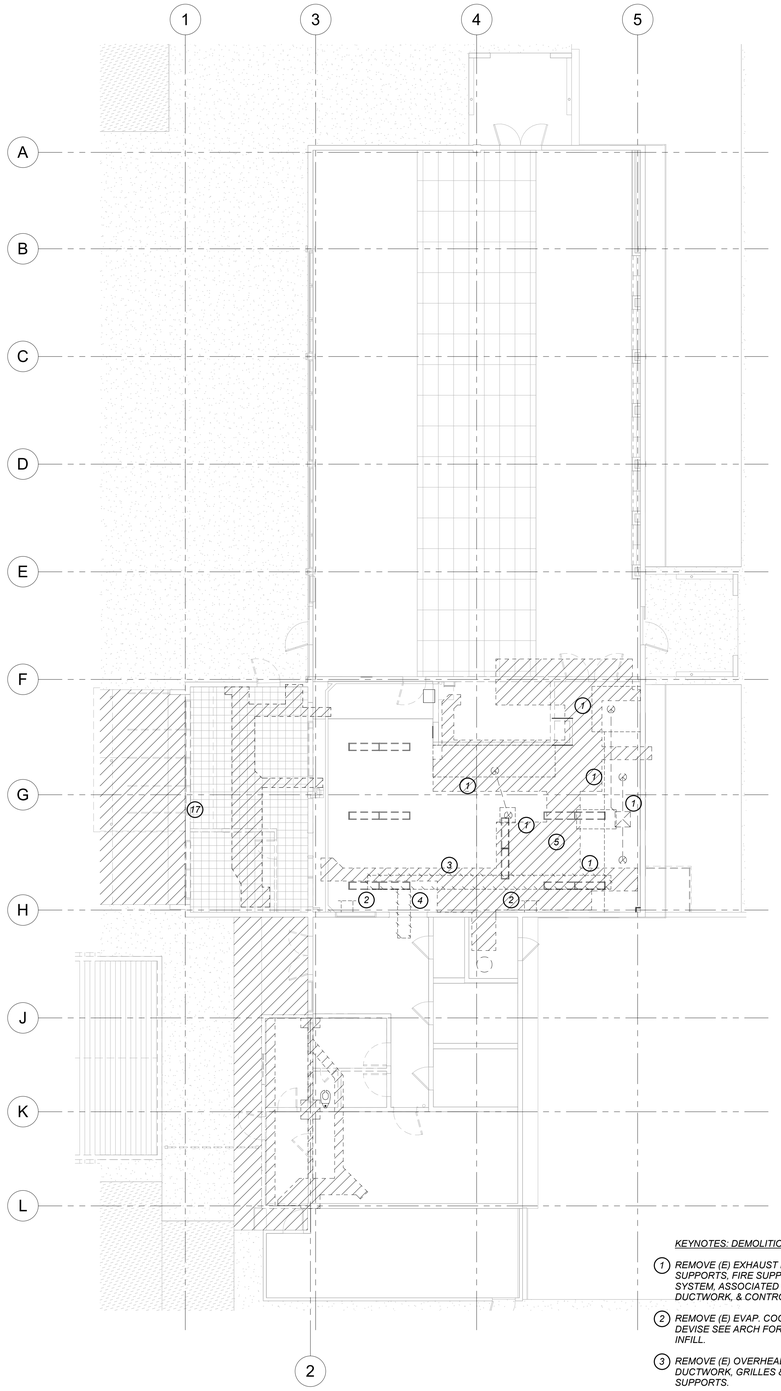
No.	Revision/Submission	Date

Revision

Designed By: D.M. — Copyright 2023 Darden Architects
Scale: As Noted — Drawn By: LEG
Project Number: 2123 — Checked By: D.M.
Date: 03/31/2023 — Reviewed By: R.C.

X/M104

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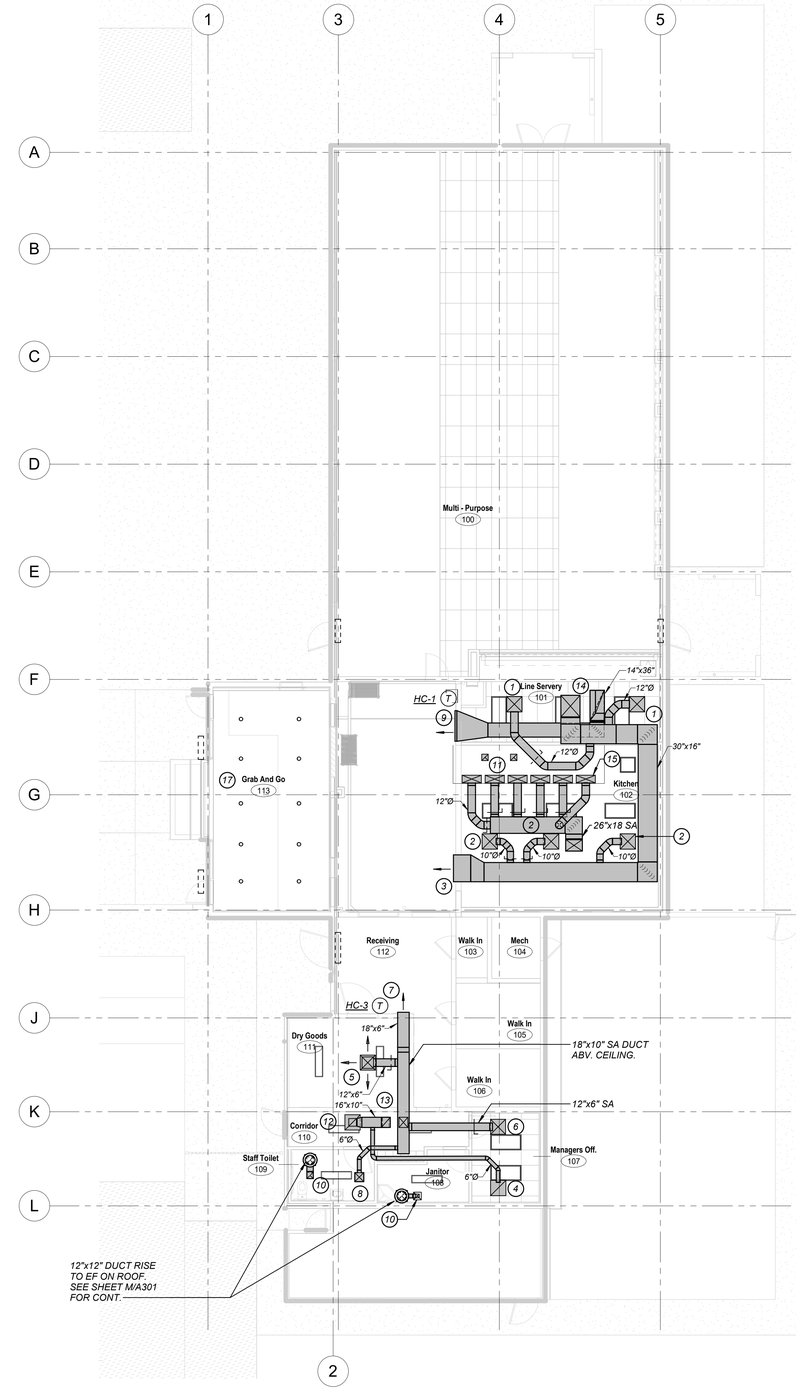


KEYNOTES: DEMOLITION ONLY

1. *REMOVE (E) EXHAUST HOOD, SUPPORTS, FIRE SUPPRESSION SYSTEM, ASSOCIATED DUCTWORK, & CONTROLS.*
2. *REMOVE (E) EVAP. COOLER SA DEVISE SEE ARCH FOR WALL INFILL.*
3. *REMOVE (E) OVERHEAD DUCTWORK, GRILLES & SUPPORTS.*
4. *REMOVE DUCT THRU WALL, SEE ARCH. FOR WALL INFILL.*
5. *REFER TO PLUMBING DEMO FOR ADDITIONAL PIPING ETC. TO BE REMOVED.*

N

A1 — HVAC DEMOLITION PLAN — 1/8" = 1'-0"



KEYNOTES: (THIS SHEET ONLY)

1. (A) *14"Ø-4W 500 CFM*
2. (A) *10"Ø-4W 400 CFM*
3. (E) *36"x16"45°DEF. 1500 CFM*
4. (C) *24x24 125 CFM*
5. (F) *9"x9"-4W 200 CFM*
6. (A) *8"Ø-1W 125 CFM*
7. (E) *18"x6" 45°DEF. 250 CFM*
8. (B) *6x6-2W 50 CFM*
9. (D) *48"x30" 4000 CFM*
10. (D) *12"x12" 75 CFM*
11. *14"x15" EXHAUST RISER FROM HOOD DISCHARGE CONNECTIONS OFF-SET AND CONNECT TO ROOF EF. SEE SHEET M/A301 FOR CONT. (HOOD BY OTHERS) (16)*
12. (D) *16"x16" 365 CFM*
13. *DUCT DROPS FROM HC-3 ON ROOF.*
14. *DUCT DROPS FROM HC-1 ON ROOF.*
15. *28"X10" SA DUCT CONNECTION TO SA PLENUM AT HOOD. ADJUST FOR 569 CFM EA. (TYP. OF 6)*
16. *SEE DETAIL D/X/M102 FOR EXHAUST DUCT FIRE WRAP.*
17. *(E) SYSTEM NO WORK.*

N

A9 — HVAC PLAN — 1/8" = 1'-0"

DSA File No.: *20-30*

DSA Application No.: *02-120517*

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120517 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

Agency Approval

General Notes

LAWRENCE ENGINEERING GROUP
1564 N. Maple Ave., Suite 101 Fresno, CA 93720
(559) 431-0161 21188 FAX (559) 431-1343

REGISTERED PROFESSIONAL ENGINEER — KEVIN W. CHRISTENSEN — M34894 — Exp. 6-30-24 — MECHANICAL — STATE OF CALIFORNIA

Consultant

THOMAS JEFFERSON MIDDLE SCHOOL KITCHEN REMODEL
MADRERA UNIFIED SCHOOL DISTRICT
Madera, CA

Project

BUILDING C
DEMOLITION & NEW HVAC PLANS

Drawing

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www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

LICENSED ARCHITECT — ANTONIO J. AVILA — No. C29235 — Exp. 10-31-23 — STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

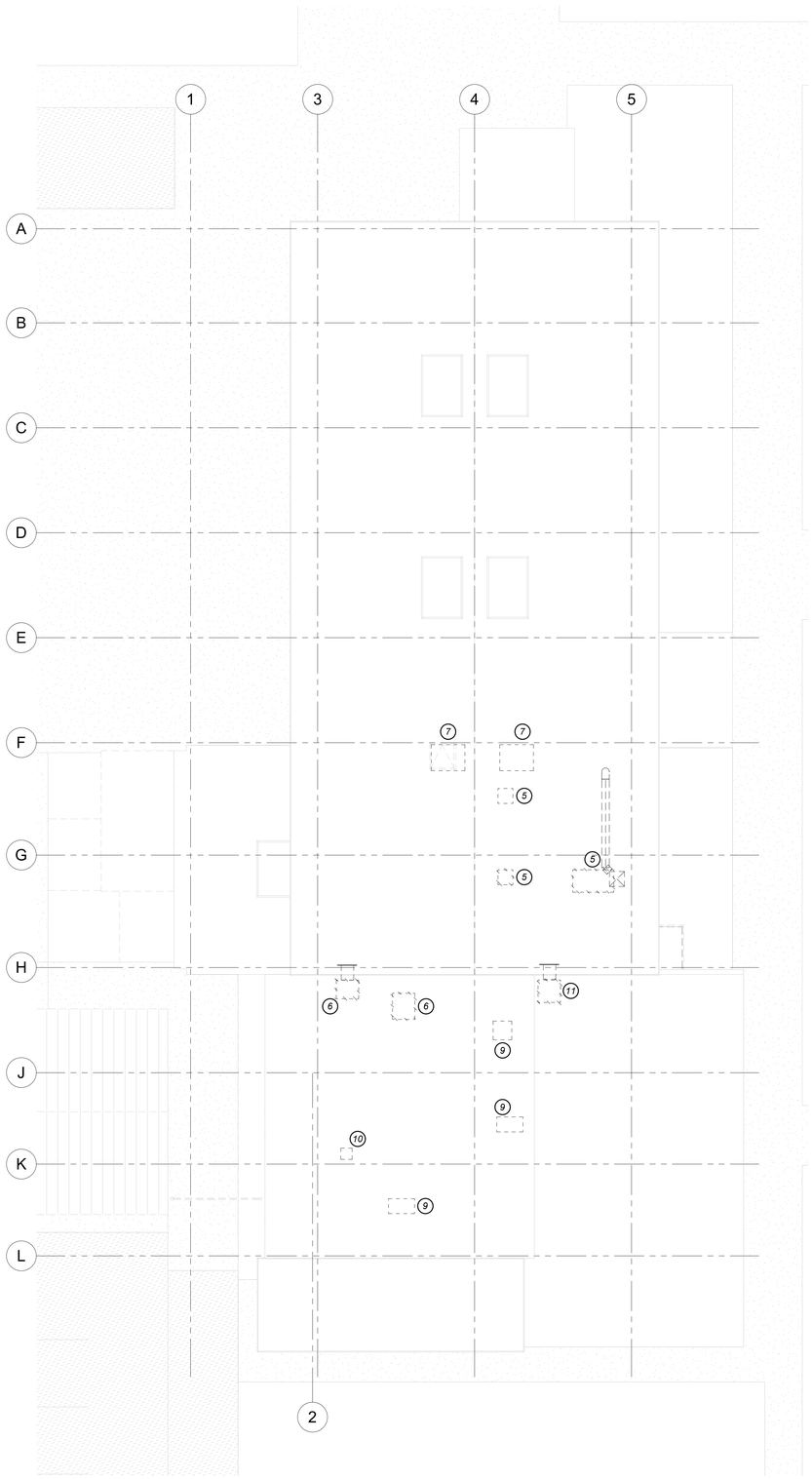
Designed By: L.B.
Drawn By: LEG
Checked By: D.M.
Reviewed By:R.C.

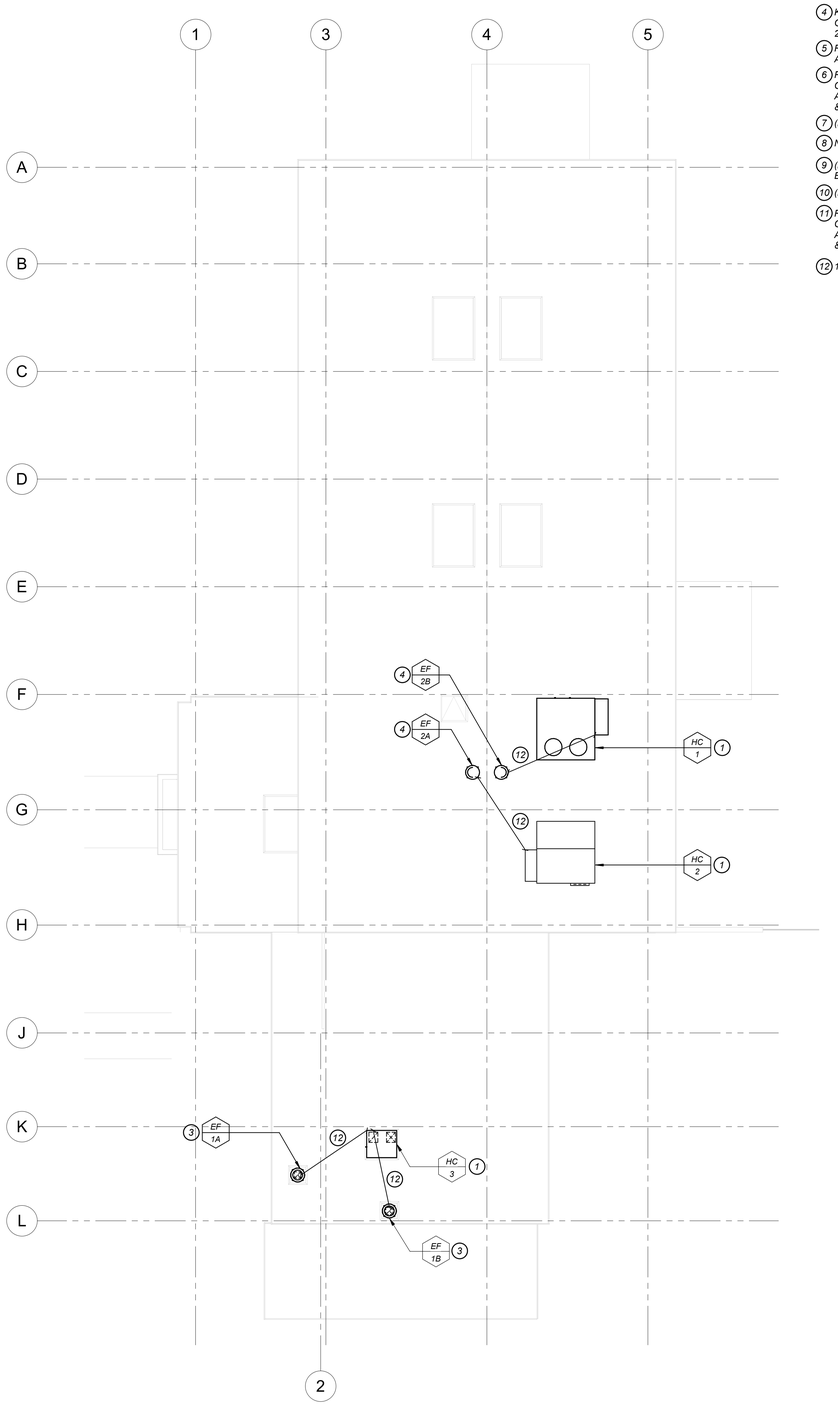
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Scale: 1/8" = 1'-0"
Project Number: 2123
Date: 03/31/2023

M/C201

1/26/2023 2:09:57 PM
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KEYNOTES: (THIS SHEET ONLY)
(INCLUDE DEMOWORK)

1. HEAT/COOL UNIT ON ROOF SEE DETAIL C/X/M102
2. NOT USED
3. EXHAUST FAN ON ROOF, SEE DET. E/X/M102
4. KITCHEN HOOD EXHAUST FAN ON ROOF, 208/1Ø POWER, 2 HP, 250 LBS. SEE DETAIL B/X/M102
5. REMOVE (E) ROOF FAN, SUPPORTS, ASSOCIATED DUCTWORK & CONTROLS.
6. REMOVE (E) ROOF MTD. EVAP. COOLER SUPPORTS, ASSOCIATED DUCTWORK, PIPING & CONTROLS.
7. (E) H/C UNITS TO REMAIN.
8. NOT USED.
9. (E) ROOF MTD. REFRIGERATION EQUIPMENT TO REMAIN.
10. (E) EXHAUST FAN TO REMAIN.
11. REMOVE (E) WALL MTD. EVAP. COOLER, SUPPORTS, ASSOCIATED DUCTWORK, PIPING & CONTROLS.
12. 10'-0" MIN.

DSA File No.:
20-30

DSA Application No.:
02-120517

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120517 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

Agency Approval

General Notes

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7084 N. Maple Ave., Suite 101, Fresno, CA 93720
(559) 431-6100 21188 FAX (559) 431-1562

Exp. 6-30-24 MECHANICAL STATE OF CALIFORNIA

Consultant

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MADRERA UNIFIED SCHOOL DISTRICT,
Madera, CA

Project

BUILDING C
HVAC ROOF DEMOLITION PLAN & NEW HVAC ROOF PLAN

Drawing

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LICENSED ARCHITECT ARSENIO J. AVILA No. C-26235 Exp. 10-31-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: L.B.	Copyright 2023 Darden Architects
Scale: 1/8" = 1'-0"	Drawn By: LEG	M/C301
Project Number: 2123	Checked By: D.M.	
Date: 03/31/2023	Reviewed By:R.C.	

A1 HVAC DEMOLITION ROOF PLAN
1/8" = 1'-0"

A9 HVAC ROOF PLAN
1/8" = 1'-0"

1/26/2023 2:09:57 PM
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GENERAL PLUMBING NOTES:

1. *THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE BUILDING IN ACCORDANCE WITH THE 2019 EDITION OF TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WOULD NOT COMPLY WITH SAID TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUESTED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.*

2. *THE APPLICABLE CODES AND REGULATIONS FOR THIS PROJECT INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:*

   CALIFORNIA CODE OF REGULATIONS
   TITLE 8, INDUSTRIAL RELATIONS
   TITLE 19, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
   TITLE 24, PART 1, ADMINISTRATIVE REGULATIONS
   2019 CALIFORNIA BUILDING CODE, PART 2, TITLE 24 CCR
   2019 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24 CCR
   2019 CALIFORNIA MECHANICAL CODE, PART 4, TITLE 24 CCR
   2019 CALIFORNIA PLUMBING CODE, PART 5, TITLE 24 CCR
   2019 CALIFORNIA FIRE CODE, PART 9, TITLE 24 CCR

   NFPA 101 2018 EDITION
   OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT

3. *LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY. THE PLUMBING BUILDING PLANS HAVE BEEN PREPARED TO MATCH THE ARCHITECTURAL PLANS. IF DIFFERENCES OCCUR, THE ARCHITECTURAL PLANS ARE TO TAKE PRECEDENCE. THE ACTUAL LOCATIONS OF ALL MATERIALS, PIPING, DUCTWORK, FIXTURES, EQUIPMENT, SUPPORTS, ETC. SHALL BE CAREFULLY PLANNED, PRIOR TO INSTALLATION OF ANY WORK, TO AVOID ALL INTERFERENCE WITH EACH OTHER, OR WITH STRUCTURAL, ELECTRICAL, ARCHITECTURAL, OR OTHER ELEMENTS. ALL PIPE OFFSET ELBOWS FOR COORDINATION BETWEEN TRADES ARE NOT SHOWN. CONTRACTOR SHALL INCLUDE SUFFICIENT FUNDS FOR THE COORDINATION OFFSETS IN THE BID. VERIFY THE PROPER VOLTAGE AND PHASE OF ALL EQUIPMENT WITH THE ELECTRICAL PLANS. ALL CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER PRIOR TO INSTALLATION OF ANY WORK OR THE ORDERING OF ANY EQUIPMENT.*

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

5. *MEP COMPONENT ANCHORAGE AND SYSTEM BRACING NOTE:*

Applicable Code: 2019 CBC 02/05/2020 Revised: 02/14/2020

MEP Component Anchorage Note

All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA-approved construction documents. The following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2019 CBC Sections 1617A.1.18 through 1617A.1.26 and ASCE 7-16 Chapters 13, 26, and 30;

1. All permanent equipment and components.
2. Temporary, movable or mobile equipment that is permanently attached (e.g. hard wired) to the building utility services such as electricity, gas or water. "Permanently attached" shall include all electrical connections except plugs for 110/220 volt receptacles having a flexible cable.
3. Temporary, movable or mobile equipment which is heavier than 400 pounds or has a center of mass located 4 feet or more above the adjacent floor or roof level that directly support the component is required to be restrained in a manner approved by DSA.

The following mechanical and electrical components shall be positively attached to the structure but need not demonstrate design compliance with the references noted above. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit. Flexible connections must allow movement in both transverse and longitudinal directions:

A. Components weighing less than 400 pounds and having a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.
B. Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.

The anchorage of all mechanical, electrical and plumbing components shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and acceptance by DSA. The project inspector will verify that all components and equipment have been anchored in accordance with the above requirements.

Piping, Ductwork, and Electrical Distribution System Bracing Note

Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-16 Section 13.3 as defined in ASCE 7-16 Sections 13.6.5, 13.6.6, 13.6.7, 13.6.8; and 2019 CBC, Sections 1617A.1.24, 1617A.1.25 and 1617A.1.26.

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a preapproved installation guide (e.g., OSHPD OPM for 2013 CBC or later), copies of the bracing system installation guide or manual shall be available on the jobsite prior to the start of and during the hanging and bracing of the distribution systems. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems (E):

MP ☐ MD ☐ PP ☐ E ☐ Option 1: Detailed on the approved drawings with project specific notes and details.

MP ☐ MD ☐ PP ☒ E ☐ Option 2: Shall comply with the applicable OSHPD Pre-Approval (OPM #) *# OPM-0043-13 (MASON WEST, SEISMIC RESTRAINT GUIDELINES FOR SUSPENDED DISTRIBUTION SYSTEMS).*

6. *BRACE ALL PIPING 3" DIAMETER AND GREATER; USE Ip=1.0 FOR SEISMIC DESIGN CALCULATIONS. EXCEPTION: NATURAL GAS PIPING 1"DIAMETER AND GREATER, USE Ip=1.5 FOR SEISMIC DESIGN CALCULATIONS.*

7. *PENETRATIONS THROUGH FIRE RATED WALLS, FLOOR/CEILING, AND ROOF/CEILING ASSEMBLIES SHALL BE SEALED USING AN APPROVED SYSTEM CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN SUBJECTED TO THE REQUIREMENTS OF THE TEST STANDARD SPECIFIC TO FIRE STOPS PER 2019 CBC SECTION 714. THIS INCLUDES EXISTING PIPE AND CONDUIT THROUGH NEW ASSEMBLIES. CUSTOM DESIGNED SYSTEMS WHICH COMBINE COMPONENTS FROM DIFFERENT APPROVED SYSTEMS BUT HAVE NOT BEEN TESTED AS A COMPLETE ASSEMBLY WILL NOT BE ACCEPTABLE. FOR FIRE STOPS FOR PIPE PENETRATIONS SEE SPECIFICATIONS AND SHEET X/P101.*

8. *FIELD VERIFY THE EXACT LOCATION, DEPTH AND SIZE OF ALL NEW POINTS OF CONNECTION TO EXISTING UTILITIES PRIOR TO COMMENCING NEW UTILITY WORK.*

9. *ALL DOMESTIC WATER PIPING SHALL BE A MINIMUM OF 1/2" SIZE UNLESS NOTED OTHERWISE. USE A REDUCING DROP ELL AT FIXTURE CONNECTION WHEN APPLICABLE.*

GAS CALC. SUMMARY:
SUBMIT GAS APPLICATION TO LOCAL GAS COMPANY WITHIN 3-MONTHS PRIOR TO START OF CONSTRUCTION. LOCAL GAS UTILITY SHALL ANALYZE GAS SERVICE DEMAND AT EXISTING GAS METER INCLUSIVE OF EXISTING AND NEW GAS LOADS TO DETERMINE ADEQUATE METER ACCOMMODATIONS OR PROCEED WITH METER UPGRADE FOR THIS PROJECT. AS REQUIRED, OWNER TO ARRANGE FOR UPGRADE INSTALLATION AND PAY ALL COSTS.

LOCAL GAS UTILITY CO.: PGE
(E) GAS DEMAND TO KITCHEN TO REMAIN ..... 320 MBH
(N) GAS DEMAND AT KITCHEN REMODEL ..... 1,561 MBH
TOTAL GAS DEMAND AT KITCHEN REMODEL .. 1,881 MBH
BASED ON A NATURAL GAS HEATING VALUE OF 1,000 BTUH/CFH AND SPECIFIC GRAVITY 0.60.
FOR EQUIPMENT GAS LOADS, REFER TO GAS DEMAND FORM, SHEET X/P103.

**DEVELOPED EQUIVALENT LENGTH FROM GAS METER TO MOST REMOTE OUTLET AT KITCHEN REMODEL*
(INC. 50% FOR FITTINGS) = ... 150 L.F.
GAS SUPPLY PRESSURE = ... 7" WATER COLUMN (W.C.)

ADDITIONAL SEISMIC BRACING REQUIREMENTS:

A. *CONTRACTOR SHALL OBTAIN THE SERVICES OF A SEISMIC DESIGN SERVICE TO PROVIDE ENGINEERED SEISMIC SUPPORTS AND RESTRAINTS FOR THE PROJECT. MASON WEST, INC, AJ ENGINEERING, OR PRE-APPROVED EQUAL.*

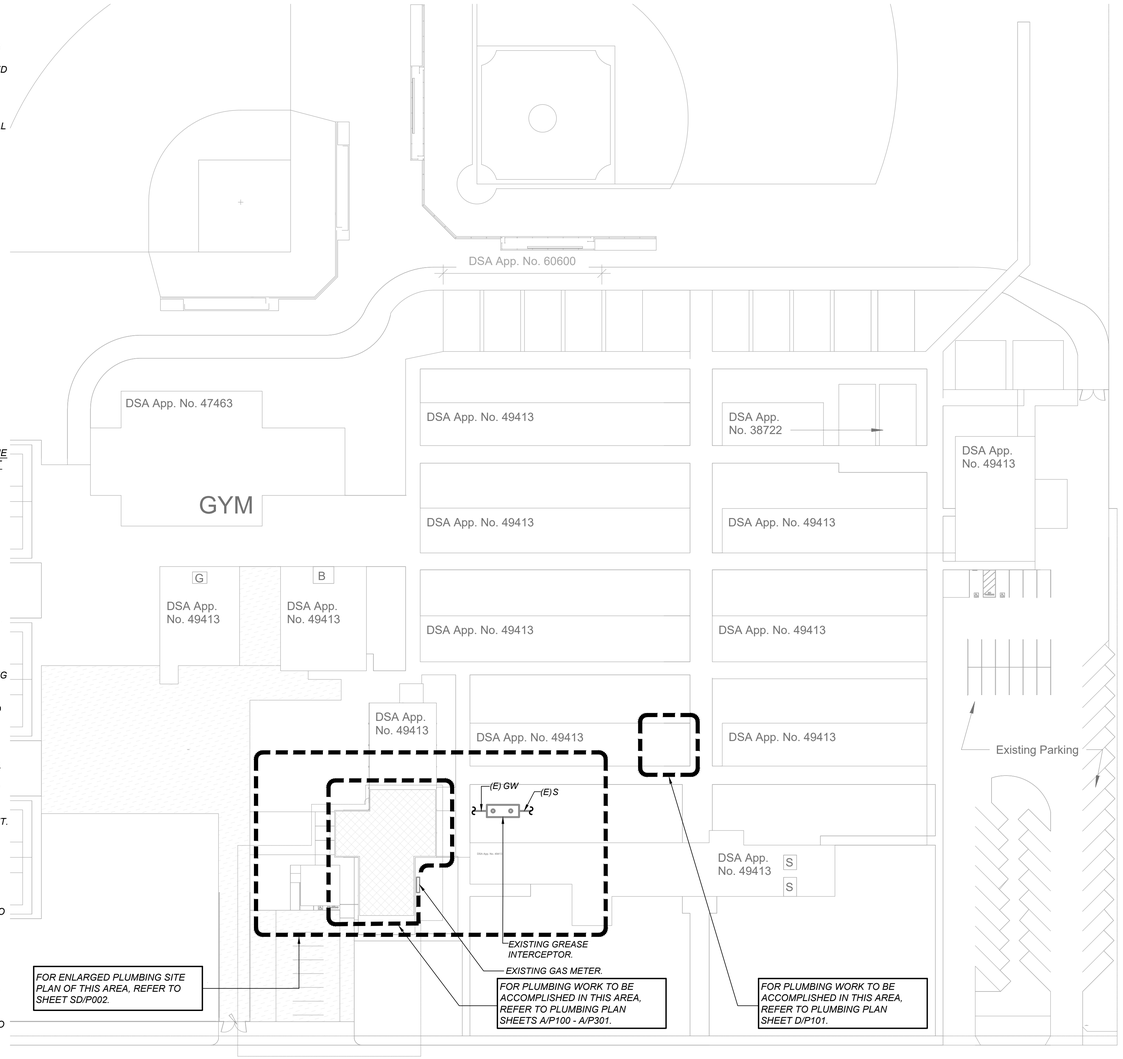
1. *ALL SEISMIC DESIGNS, INCLUDING DESIGNS USING MASON WEST OPM-0043-13 7TH EDITION, 2020 HCAI (OSHPD) PRE-APPROVALS, SHALL BE SUBMITTED AS PROJECT SPECIFIC ENGINEERED DESIGNS SEALED AND SIGNED BY A LICENSED CALIFORNIA PROFESSIONAL ENGINEER AS DESCRIBED IN 2019 CALIFORNIA ADMINISTRATIVE CODE SECTION. ALL SEISMIC DESIGNS SHALL INCLUDE PROJECT / APPLICATION SPECIFIC SEISMIC DESIGN DEMAND CALCULATIONS. SAID SEISMIC DESIGN DEMAND CALCULATIONS SHALL ACCOUNT FOR SEISMIC FORCES IN ALL APPLICABLE DIRECTIONS INCLUDING AXIAL, LATERAL, VERTICAL TENSION, VERTICAL COMPRESSION, ETC. DESIGNS SHALL ACCOUNT FOR PRYING, ECCENTRICITY, UNEVEN LOADING, WEAK AXIS BENDING, ETC.*
2. *SEISMIC RESTRAINT LAYOUTS FOR PIPING SHALL BE FURNISHED ON SHOP DRAWINGS OR ADDED TO THE CONTRACTOR'S SHOP DRAWINGS AND SHALL INCLUDE:*
   a. *THE NUMBER, SIZE AND LOCATION OF SEISMIC BRACES INCLUDING CUSTOM BRACE LOCATIONS.*
   b. *MAXIMUM SUPPORT LOADS AND SEISMIC LOADS AT THE SEISMIC BRACE LOCATIONS.*
   c. *REFERENCE TO SPECIFIC DETAILS OR PAGES FROM THE HCAI (OSHPD) PRE-APPROVED SYSTEM (OPM).*
3. *POINT LOADS APPLIED TO THE OVERHEAD STRUCTURE DUE TO COMPONENT HANGERS AND SEISMIC BRACING SHALL BE PREPARED BY THE ENGINEERING FIRM IN RESPONSIBLE CHARGE OF DESIGNING THE SEISMIC BRACING MENTIONED ABOVE WHEN REQUIRED BY THE PROJECT OWNER. POINT LOADS SHALL INCLUDE ALL APPLICABLE FORCES INCLUDING BUT NOT LIMITED TO GRAVITY, VERTICAL AND HORIZONTAL SEISMIC, AND THERMAL REACTIONS.*
4. *INSTALLATIONS NOT ADDRESSED BY THE OPM APPROVAL SHALL BE DESIGNED, DETAILED AND SUBMITTED ALONG WITH THE SHOP DRAWINGS.*
5. *ADDITIONAL SECONDARY STEEL SHALL BE PROVIDED WHERE REQUIRED FOR THE SUPPORT OF PIPING AND AT ALL SEISMIC BRACING LOCATIONS WITHIN THE BUILDING. REFER TO THE STRUCTURAL DRAWINGS FOR ADDITIONAL SUPPORT REQUIREMENTS.*
6. *SUBMIT SEISMIC RESTRAINT LAYOUT DRAWINGS AND CUSTOM DETAILS FOR APPROVAL OF THE PROJECT STRUCTURAL ENGINEER PER THE REQUIREMENTS LISTED IN THE HCAI (OSHPD) PRE-APPROVAL (OPM).*
7. *SEISMIC RESTRAINT LAYOUT DRAWINGS SHALL BEAR THE STAMP AND SIGNATURE OF THE REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF CALIFORNIA WHO DESIGNED THE LAYOUT OF THE BRACES.*

TYPICAL KITCHEN EQUIPMENT PLUMBING NOTES:

1. *REFER TO KITCHEN LAYOUT PLANS FOR EXACT LOCATIONS AND HEIGHTS OF ALL PLUMBING CONNECTIONS TO EQUIPMENT AND FOR ADDITIONAL PLUMBING REQUIREMENTS.*
2. *ALL FAUCETS, STRAINERS AND TAILPIECES FOR KITCHEN SINKS SHALL BE FURNISHED BY THE KITCHEN EQUIPMENT SUPPLIER, INSTALLED BY THE PLUMBING CONT'R.*
3. *PLUMBING CONT'R. TO CONNECT ALL INDIRECT WASTE (I.W.) PIPING FULL SIZE TO KITCHEN EQUIPMENT AS REQUIRED AND PIPE TO THE NEAREST FLOOR SINK. INSULATE ALL DRAIN LINES FROM ICE BINS, ICE MACHINES, REFRIGERATED OR FREEZER EQUIPMENT, ETC.*
4. *ALL FINAL CONNECTIONS TO EQUIPMENT TO BE DONE BY THE PLUMBING CONT'R.*
5. *INSTALL J.R. SMITH #5005 SHOCK ABSORBER IN CW LINE TO GARBAGE DISPOSER AND IN CW & HW LINES TO PRERINSE FAUCET.*
6. *PROVIDE S.O.V.'S AT ALL WATER AND GAS CONNECTIONS TO KITCHEN EQUIPMENT. S.O.V.'S SHALL BE IN A READILY ACCESSIBLE LOCATION.*
7. *PROVIDE CW & HW STOPS FOR ALL FAUCET CONNECTIONS.*
8. *EACH PLUMBING FIXTURE DISCHARGING INTO GREASE INTERCEPTOR SHALL BE INDIVIDUALLY TRAPPED AND VENTED. 2019 CPC SECTION 1014.1.1.*
9. *ALL KITCHEN EQUIPMENT AND SINKS HAVING INDIRECT WASTES DISCHARGING TO A FLOOR SINK SHALL HAVE MINIMUM 1" AIR GAP. REFER TO DETAIL F/X/P101.*
10. *ALL PLUMBING, CONDUITS AND GAS LINES SHALL BE CONCEALED WITHIN THE BUILDING STRUCTURE TO AS GREAT AN EXTENT AS POSSIBLE. OTHERWISE INSTALL AT LEAST 6" OFF FLOOR AND 1/2" FROM WALLS USING STANDOFF BRACKETS AND NOT ACROSS ANY AISLE, TRAFFIC AREA OR DOOR OPENING. MULTIPLE RUNS OR CLUSTERS INCLUDING BEVERAGE LINES SHALL BE ENCASED IN AN APPROVED SEALED ENCLOSURE.*
11. *ALL LIQUID WASTE SHALL BE DRAINED BY MEANS OF INDIRECT WASTE PIPES INTO A FLOOR SINK. FLOOR SINKS ARE TO BE INSTALLED FLUSH WITH THE FINISHED FLOOR SURFACE AND HAVE SUITABLE EASILY REMOVABLE SAFETY COVER GRATES. FLOOR SINK TO BE 50% EXPOSED WHEN NO ACCESS IS PROVIDED FOR CLEANING OR BE IN LINE WITH THE FRONT FACE OF ELEVATED FREESTANDING EQUIPMENT.*
12. *APPROVED BACKFLOW PREVENTION DEVICES SHALL BE PROPERLY INSTALLED UPSTREAM OF ANY POTENTIAL HAZARD BETWEEN THE POTABLE WATER SUPPLY AND A SOURCE OF CONTAMINATION. HOSES SHALL NOT BE ATTACHED TO A FAUCET OR HOSE BIB UNLESS AN APPROVED BACKFLOW PREVENTER IS PROVIDED.*
13. *AUTOMATIC GAS SHUT-OFF VALVE FOR ANSUL SYSTEM FURNISHED BY KITCHEN EQUIPMENT SUPPLIER, LOCATED AND INSTALLED BY PLUMBING IN AN ACCESSIBLE LOCATION. PLUG VALVE AND GAS STRAINER SHALL BE INSTALLED UPSTREAM OF AUTOMATIC SHUT-OFF VALVE.*

PLUMBING DEMOLITION NOTES:

1. *ALL PLUMBING SYSTEMS SHOWN ON THE PLUMBING DEMOLITION SHEET ARE EXISTING.*
2. *ALL EXISTING RISERS, DROPS, MAINS AND BRANCHES FOR EACH UTILITY TO REMAIN, UNLESS OTHERWISE NOTED.*
3. *ALL PLUMBING UTILITIES TO REMAIN IN SERVICE DURING DEMOLITION. COORDINATE ALL SHUT-DOWNS WITH MAINTENANCE STAFF TO MINIMIZE INTERRUPTION OF SERVICES.*
4. *ALL REMOVED PLUMBING FIXTURES ARE TO BE PROTECTED AND STORED FOR POSSIBLE FUTURE USE.*
5. *DISCONNECT, REMOVE, AND/OR CAP SOIL, WASTE, VENT, COLD WATER AND HOT WATER, CONDENSATE DRAIN, AND GAS PIPING BELOW FLOOR OR ABOVE CEILING AS INDICATED ON THE DRAWINGS.*
6. *REFER TO PLUMBING DRAWINGS SHOWING NEW WORK FOR POINTS OF CONNECTION.*
7. *REFER TO ARCHITECTURAL DEMOLITION PLANS FOR FURTHER DETAILS AND NOTES.*



PLUMBING LEGEND

SYMBOL	ITEM	ABBR
———	SOIL or WASTE	S or W
- - - - -	VENT	V
	VENT RISER	VR
	VENT THRU ROOF	VTR
—GW—	GREASE WASTE	GW
---GV---	GREASE VENT	GV
	GREASE VENT THRU ROOF	GVTR
—·—·—	DOMESTIC COLD WATER	CW
———	DOMESTIC HOT WATER	HW
———	DOMESTIC HOT WATER RETURN	HWR
—G—	LOW PRESSURE NATURAL GAS	G
—2#G—	2 PSI GAS	2#G
—5#G—	5 PSI GAS	5#G
--GSM--	GAS SERVICE MAIN BY THE LOCAL GAS UTILITY	GSM
—C—	CONDENSATE DRAIN	CD
—RWL—	RAIN WATER LEADER	RWL
—OD—	OVERFLOW DRAIN	OD
—SD—	STORM DRAIN	SD
—IW—	INDIRECT WASTE	IW
—F—	FIRE PROTECTION LINE	F
	EXISTING PIPING	(E)
(E)	EXISTING	
(N)	NEW	
	ABOVE CEILING	ABV CLG
	BELOW FLOOR	BEL FLR
	BELOW GRADE	BEL GR
	TYPICAL	TYP
	CONTINUATION	CONT.
	BOTTOM OF PIPE	BOP

PLUMBING LEGEND

SYMBOL	ITEM	ABBR
	DOWN	DN
	WATER COLUMN	W.C.
	DRAINAGE FIXTURE UNITS	DFU
	WATER SUPPLY FIXTURE UNITS	WSFU
	FLOOR CLEANOUT	FCO
	CLEANOUT TO GRADE	COTG
	WALL CLEANOUT	WCO
	PIPING TURN UP	
	PIPING TURN DOWN	
	POINT OF CONNECTION	POC
	SHUT-OFF VALVE IN BOX	SOV
	SHUT-OFF VALVE	SOV
	SHUT-OFF VALVE IN RISER	-
	SHUT-OFF VALVE IN DROP	-
	GATE VALVE	-
	BUTTERFLY VALVE	-
	GLOBE VALVE	-
	CHECK VALVE	-
	PLUG VALVE	-
	BALL VALVE	-
	BALANCE COCK	-
	REDUCER	-
	MANHOLE	MH
	FLOW LINE	FL
	UNION	-
	RELIEF VALVE	-
	BALANCING VALVE	-
	PRESSURE GAUGE	-
	THERMOMETER	-

WALL LEGEND

(E) Concrete Masonry Unit Wall. 8" wide unless otherwise noted.

Stud Wall. Studs and Interior Wall materials continuous from floor to underside of floor or roof deck. Studs at 16" o.c. unless otherwise noted. Interior Wall material shall include Batt Insulation, Sound Deadening Board, Plywood Sheathing, Gypsum Board, and Cement Plaster/ Ceramic Tile setting bed where occurs.

Stud Wall. Studs and finish material continuous from floor to minimum 6" above ceiling. Studs to be braced to underside of roof framing or deck if not required to be continuous to roof framing or deck. Studs at 16"o.c. Unless Otherwise Noted. See Structural for bracing and extent of Structural Sheathing.

1 Hr. Corridor Wall - Fire Partition (1 Hr. Fire Resistive Construction, 20 Min. Door Assemblies, 45 Min. Window Assemblies)

(PB) *SYMBOL DENOTES FOODSERVICE FURNISHED EQUIPMENT, U.O.N. FOR KITCHEN EQUIPMENT PLUMBING SCHEDULE AND INTERCONNECTIONS BETWEEN FOODSERVICE EQUIPMENT AND PLUMBING, REFER TO SHEET X/P103. REFER TO KITCHEN DESIGN PLANS, FOODSERVICE SHEETS AND SPECIFICATION SECTION 11 40 00 FOR ADDITIONAL PLUMBING REQUIREMENTS, AND EQUIPMENT DETAILS.*

NOTE:
FOR ABOVE FINISH FLOOR PIPING, REFER TO SHEET A/P201.
FOR UNDERGROUND PIPING, REFER TO SHEET A/P201U.

N

DSA File No.: *20-30*

DSA Application No.: *02-120517*

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120517 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

Agency Approval

General Notes

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4910 E. Clinton Way, Suite 101 Fresno, CA 93727
(559) 431-0101 21188 FAX (559) 431-1342

REGISTERED PROFESSIONAL ENGINEER BRIAN W. FAIRLEY No. M34846 Exp. 6-30-24 MECHANICAL STATE OF CALIFORNIA

Consultant

THOMAS JEFFERSON MIDDLE SCHOOL KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
Madera, CA

Project

SITE DEVELOPMENT
PLUMBING SITE PLAN, LEGEND, AND NOTES

Drawing

darden architects
ARCHITECTURE PLANNING INTERIORS
www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

LICENSED ARCHITECT ANTONIO J. AVILA No. C26235 Renewal 10-31-2024 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

		Designed By: D.M.	Copyright 2023 Darden Architects
Scale:	As Indicated	Drawn By: LEG	
Project Number:	2123	Checked By: D.M.	
Date:	03/31/2023	Reviewed By: R.C.	

SD/P001

A1
1"=40'-0"
Plumbing Site Plan, Legend & Notes

26 January 2023 2:12 PM p:\2021\21188 madera usd thomas jefferson ms kitchen remodel\4-drawings\S P\SP001 - PLUMBING SITE PLAN, LEGEND & NOTES.dwg anthony o

DISCONNECT AND REMOVE EXISTING WATER PIPING ON ROOF TO EXISTING HOSE BIB. DISCONNECT AND REMOVE (E) HOSE BIB.

KITCHEN REMODEL AREA. REFER TO SHEETS A/P100, A/P201, A/P201U, AND A/P301 FOR ADDITIONAL PLUMBING WORK.

EXISTING STORAGE

PARKING

E(3) A/P102

E(2) A/P102

E(1) A/P102

(E)GW

(E)CW

EV-1

3"G

EXISTING CW VALVE IN YARD BOX.

EXISTING SEWER CLEANOUT TO GRADE.

EXISTING GREASE INTERCEPTOR.

4"

GW

2% SLOPE

ELECT POWER

A SD/P002

(E)4"GW INLET. INVERT ELEV. APPROX. 33" BEL. GREASE INTER. LID.

POINT OF CONNECTION 4"GW TO INLET SIDE OF EXISTING GREASE INTERCEPTOR. PROVIDE 4" TWO-WAY COTG, PER DETAIL B/X/P101.

BORE UNDER OR SAWCUT AND PATCH BACK EXISTING WALKWAY AS REQUIRED.

4"GW BELOW GRADE. REFER TO SHEET A/P201U FOR CONTINUATION.

B SD/P002

DSA App. No. 49413

DISCONNECT AND REMOVE EXISTING AIR COMPRESSOR AND ASSOCIATED PIPING. REFER TO B/SD/P002.

DISCONNECT AND REMOVE EXISTING COMPRESSED AIR PIPING ON AND DOWN THRU ROOF. PATCH BACK ROOF PENETRATION. REFER TO PLUMBING DEMOLITION PLAN A/P100 FOR CONTINUATION.

(N) 3" GAS RISER IMMEDIATELY ADJACENT TO BUILDING SLAB FROM BELOW GRADE AT BUILDING EXTERIOR. GAS PIPING SHALL NOT ROUTE BELOW BUILDING SLAB OR FOUNDATION. PROVIDE PLUG VALVE AND EARTHQUAKE VALVE. EV-1 IN RISER AND ELBOW INTO BUILDING AT ±24" ABOVE FIN. FLOOR. SEAL PIPE ANNULAR SPACE AT WALL. INSTALL GAS PIPING IN COMPLIANCE WITH 2019 CPC SECTIONS 1210 AND 1211. REFER TO SHEET C/P201 FOR CONTINUATION.

BUILDING GAS S.O.V. SIGN. REFER TO DETAIL G/XP101.

C SD/P002

P.O.C. 3" GAS TO EXISTING GAS HEADER. PROVIDE PLUG VALVE AND TURN DOWN BELOW GRADE.

EXISTING GAS METER.

N

H1 Enlarged Plumbing Site Plan

1/8" = 1'-0"



POINT OF CONNECTION 3" GAS TO EXISTING GAS METER OUTLET HEADER. PROVIDE PLUG VALVE AND OFFSET DOWN BELOW GRADE. REFER TO SHEET H1/SD/P002 FOR CONTINUATION.



EXISTING GAS METER SET.

EXISTING GAS METER

SCALE: NONE

C SD/P002

DISCONNECT AND REMOVE EXISTING VERTICAL TANK AIR COMPRESSOR, AND ASSOCIATED COMPRESSED AIR PIPING, VALVES, AND FITTINGS. REMOVE PIPING AT BLDG. EXTERIOR AND INTERIOR TO AND FROM ALL OUTLETS. COORDINATE WITH DISTRICT FOR COMPRESSOR EQUIPMENT FUTURE USE, STORAGE, OR DISPOSAL.



EXISTING AIR COMPRESSOR

SCALE: NONE

B SD/P002

EXISTING GREASE INTERCEPTOR.



EXISTING GREASE INTERCEPTOR

SCALE: NONE

A SD/P002

DSA File No.: 20-30

DSA Application No.: 02-120517

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120517 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

Agency Approval

DENOTES PHOTO OF AREA, TYP.

NOTE:
PICTURES SUPPLEMENT PLUMBING PLAN AND ARE FOR ILLUSTRATIVE PURPOSES. PICTURES DO NOT INDICATE ALL DEMOLITION OR EXISTING PIPING , FIXTURES, OR PLUMBING EQUIPMENT FOR THIS PROJECT. REFER TO SHEETS SD/P002 AND A/P100 FOR ADDITIONAL PLUMBING WORK.

General Notes

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(559) 431-0101 21188 FAX (559) 431-1342

REGISTERED PROFESSIONAL ENGINEER
RYAN W. EARLSON
No. M34846
Exp. 6-30-24
MECHANICAL
STATE OF CALIFORNIA

Consultant

THOMAS JEFFERSON MIDDLE SCHOOL KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
Madera, CA

Project

SITE DEVELOPMENT
ENLARGED PLUMBING SITE PLAN

Drawing

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LICENSED ARCHITECT
LEONG J. LEE
No. C26230
REN. 10-31-24
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: D.M. Copyright 2023 Darden Architects

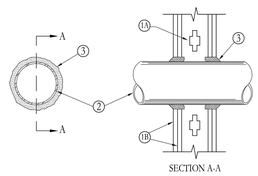
Scale: AS INDICATED | Drawn By: LEG

Project Number: 2123 | Checked By: D.M.

Date: 03/31/2023 | Reviewed By: R.C.

SD/P002

26 January 2023 2:12 PM p:\2021\21188 madera usd thomas jefferson ms kitchen remodel\4-drawings\5 PA\SD/P002 - ENLG-SITE.dwg anthony o



SECTION A-A

1. **Wall Assembly** – The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Studs** – Wall framing may consist of either wood studs (nom 2 hr fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be nom 3-5/8 in. (92 mm) wide by 1-5/8 in. (25 mm) deep channels spaced max 24 in. (610 mm) OC.
   B. **Gypsum Board*** – Nom 1/2 or 5/8 in. (13 or 16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Designs in the UL Fire Resistance Directory. Max diam of opening is 24-in. (600 mm).
2. **Through Penetrant** – One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (0 mm) (point contact) to max 2 in. (51 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. **Steel Pipe** – Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. **Iron Pipe** – Nom 24 in. (610 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.
   C. **Conduit** – Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing
   D. **Copper Tubing** – Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing
   E. **Copper Pipe** – Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
   F. **Through Penetrating Product*** – **Flexible Metal Piping** – The following types of steel flexible metal gas piping may be used:
      1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
         OMEGA FLEX INC
      2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
         TITEFLEX CORP
         A BUNDY CO
      3. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
         WARD MFG INC

This material was extracted and drawn by 3M Fire Protection Products from the 2007 edition of the UL Fire Resistance Directory. cULus

3M Fire Protection Products
www.3m.com/firestop

W-L-1001 • 1 of 2

Product Support Line: 1-800-328-1687
Choose option 4 for fill DS 550400

97

Through Penetrations | Metallic Pipes | 1000 Series | Gypsum | WL

System No. W-L-1001 *continued*

3. **Fill,Void or Cavity Material*** – **Caulk or Sealant** – Min 5/8, 1-1/4,1-7/8 and 2-1/2 in. (16, 32, 48 and 64 mm) thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly F Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

Max Pipe or Conduit Diam In. (mm)	F Rating Hr	T Rating Hr
1 (25)	1 or 2	0+, 1 or 2
1 (25)	3 or 4	3 or 4
4 (102)	1 or 2	0
6 (152)	3 or 4	0
12 (305)	1 or 2	0

+When copper pipe is used, T Rating is 0 hr.
3M COMPANY – CP 25WB+ caulk or FB-3000 WT sealant,
*Bearing the UL Classification Marking

Through Penetrations | Metallic Pipes | 1000 Series | Gypsum | WL

This material was extracted and drawn by 3M Fire Protection Products from the 2007 edition of the UL Fire Resistance Directory. cULus

98

3M Fire Protection Products
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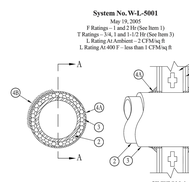
W-L-1001 • 2 of 2

Product Support Line: 1-800-328-1687
Choose option 4 for fill DS 550400

PIPE FIRE STOP DETAIL

SCALE: NONE

K X/P101



SECTION A-A

1. **Wall Assembly** – The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U306, U408 or V400 Series Wall or Partition Design 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 in. by 4 in. (25 mm by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-5/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.
   B. **Gypsum Board*** – Nom 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 U306 or U408 Series Designs in the UL Fire Resistance Directory. Max diam of opening is 14-1/2 in (368 mm) for wood stud walls and 18 in. (457 mm) for steel stud walls.

   The hourly F Rating of the firestop system is 1 hr when installed in a 1 hr fire rated wall and 2 hr when installed in a 2 hr fire rated wall.
2. **Through Penetrants** – One metallic pipe or tubing to be centered within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:
   A. **Steel Pipe** – Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. **Copper Tubing** – Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
   C. **Copper Pipe** – Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
3. **Pipe Covering*** – Nom 1 in. or 2 in. (25 mm or 51 mm) thick hollow cylindrical heavy density glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints sealed with self-sealing lap tape. Annular space between pipe and wall to be min 0 in. (0 mm) to max 1-1/2 in. (38 mm). Annular space between the pipe covering and the circular cutout in the gypsum board layers on each side of the wall shall be min 1/4 in. to max 3/8 in. (6 mm to max 10 mm). When nom 2 in. (51 mm) thick pipe covering is used, the annular space between the pipe covering and the circular cutout in the gypsum board layers on each side of the wall shall be min 1/2 in. to max 3/4 in. (13 mm to max 19 mm).

   See **Pipe and Equipment Covering – Materials** (BRGU) category in Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

   The hourly T Rating of the firestop system is 3/4 hr when nom 1 in. (25 mm) thick pipe covering is used. The hourly T Rating of the firestop system is 1 hr and 1-1/2 hr when nom 2 in. (51 mm) thick pipe covering is used with 1 hr and 2 hr fire rated walls, respectively.
4. **Firestop System** – Installed symmetrically on both sides of wall assembly. The details of the firestop system shall be as follows:
   A. **Fill, Void or Cavity Materials* – Wrap Strip** – Nom 1/4 in. (6 mm) thick intumescent elastomeric material faced on one side with aluminum foil, supplied in 2 in. (51 mm) wide strips. Nom 2 in. (51 mm) wide strip tightly wrapped around pipe covering (foil side out) with seam butted. Wrap strip layer securely bound with steel wire or aluminum foil tape and slid into annular space approx 1-1/4 in. (32 mm) such that approx 3/4 in. (19 mm) of the wrap strip width protrudes from the wall surface. One layer of wrap strip is required when nom 1 in. (25 mm) thick pipe covering is used. Two layers of wrap strip are required when nom 2 in. (51 mm) thick pipe covering is used.

      3M COMPANY – FS-195+
   B. **Fill, Void or Cavity Materials* – Caulk or Sealant** – Min 1/4 in. (6 mm) diam continuous bead applied to the wrap strip/wall interface and to the exposed edge of the wrap strip layer approx 3/4 in. (19 mm) from the wall surface.

      3M COMPANY – CP 25WB+, IC 15WB+, FireDam 150+ caulk or FB-3000 WT sealant

*Bearing the UL Classification Marking

This material was extracted and drawn by 3M Fire Protection Products from the 2007 edition of the UL Fire Resistance Directory. cULus

3M Fire Protection Products
www.3m.com/firestop

W-L-5001 • 1 of 1

Product Support Line: 1-800-328-1687
Choose option 4 for fill DS 550400

507

Through Penetrations | Insulated Pipes | 5000 Series | Gypsum | WL

PIPE FIRE STOP DETAIL

SCALE: NONE

L X/P101

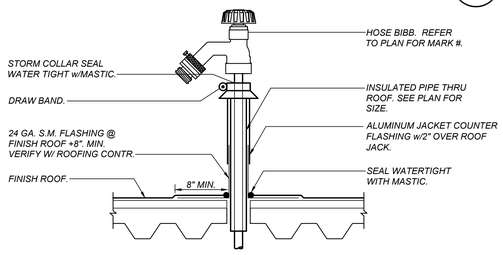


NOTE:
SIGN TO BE CONSPICUOUSLY LOCATED ON EXTERIOR WALL ABOVE BUILDING GAS SHUT-OFF VALVE AS INDICATED ON FLOOR PLAN.

GAS VALVE SIGN DETAIL

SCALE: NONE

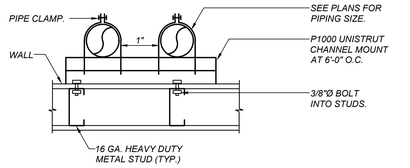
G X/P101

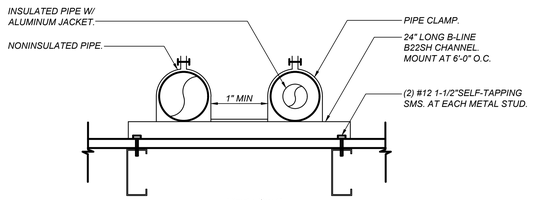


PIPE THRU ROOF DETAIL - INSULATED

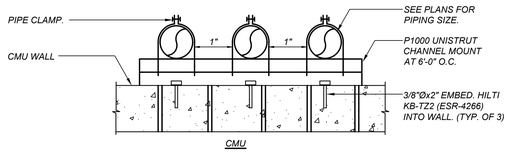
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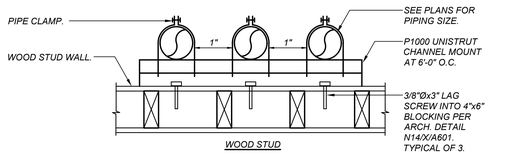




METAL STUD



CMU



WOOD STUD

PIPE SUPPORT ON WALL

SCALE: NONE

J X/P101

REFER TO ARCHITECTURAL SHEET N14/X/A601 FOR BACKING DETAIL.

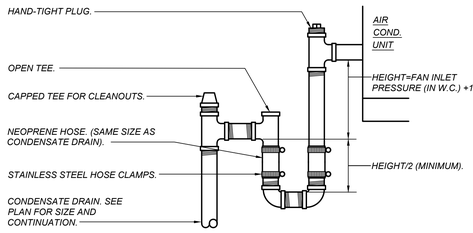
NOTES:
1. *PROVIDE JAY R. SMITH CONCEALED ARMS MOUNTED TO BLOCKING WITH 1/4 X 2-1/2" LAG SCREWS (TYP OF 2 PER ARM) FOR LAVATORY INSTALLATION.*

WOOD STUD WALL

FIXTURE SUPPORT BACKING DETAIL

SCALE: NONE

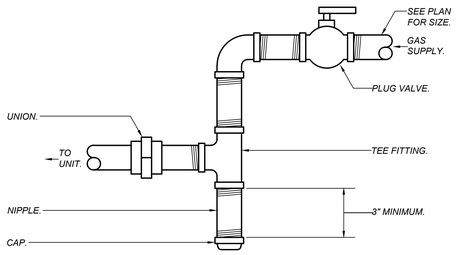
C X/P101



CONDENSATE DRAIN CONNECTION DETAIL

SCALE: NONE

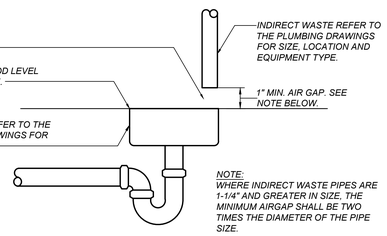
D X/P101



GAS PIPING DIRT LEG DETAIL

SCALE: NONE

E X/P101

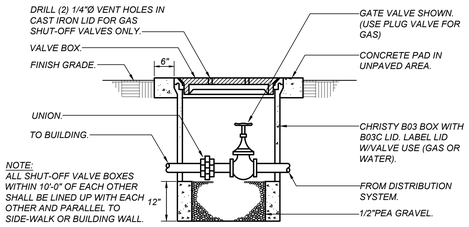


NOTE:
WHERE INDIRECT WASTE PIPES ARE 1-1/4" AND GREATER IN SIZE, THE MINIMUM AIRGAP SHALL BE TWO TIMES THE DIAMETER OF THE PIPE SIZE.

INDIRECT WASTE AIR GAP DRAIN DETAIL

SCALE: NONE

F X/P101

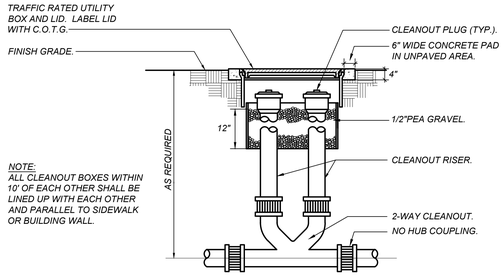


NOTE:
ALL SHUT-OFF VALVE BOXES WITHIN 10'-0" OF EACH OTHER SHALL BE LINED UP WITH EACH OTHER AND PARALLEL TO SIDE-WALK OR BUILDING WALL.

SHUT-OFF VALVE IN BOX DETAIL

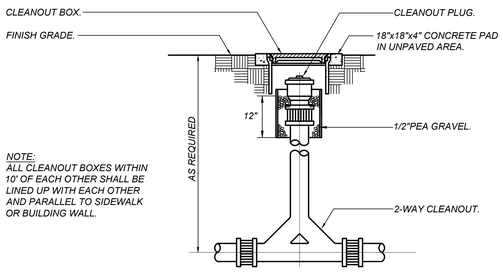
SCALE: NONE

A X/P101



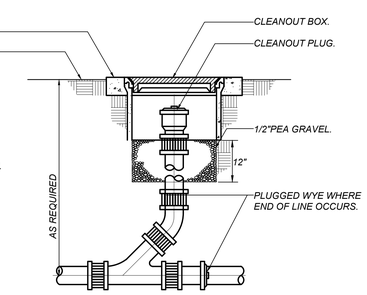
NOTE:
ALL CLEANOUT BOXES WITHIN 10' OF EACH OTHER SHALL BE LINED UP WITH EACH OTHER AND PARALLEL TO SIDEWALK OR BUILDING WALL.

2-WAY SURFACE CLEANOUT DETAIL (OPTION 1)



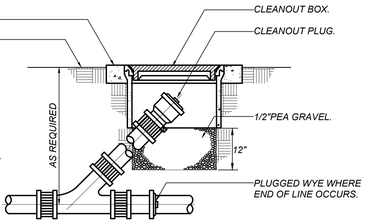
NOTE:
ALL CLEANOUT BOXES WITHIN 10' OF EACH OTHER SHALL BE LINED UP WITH EACH OTHER AND PARALLEL TO SIDEWALK OR BUILDING WALL.

2-WAY SURFACE CLEANOUT DETAIL (OPTION 2)



NOTE:
ALL CLEANOUT BOXES WITHIN 10' OF EACH OTHER SHALL BE LINED UP WITH EACH OTHER AND PARALLEL TO SIDEWALK OR BUILDING WALL.

CLEANOUT TO GRADE DETAIL (OPTION 1)



NOTE:
ALL CLEANOUT BOXES WITHIN 10' OF EACH OTHER SHALL BE LINED UP WITH EACH OTHER AND PARALLEL TO SIDEWALK OR BUILDING WALL.

CLEANOUT TO GRADE DETAIL (OPTION 2)

CLEANOUT TO GRADE DETAILS

SCALE: NONE

B X/P101

DSA File No.: *20-30*

DSA Application No.: *02-120517*

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120517 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

Agency Approval

General Notes

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4910 E. Clinton Way, Suite 101 Fresno, CA 93727
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REGISTERED PROFESSIONAL ENGINEER
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No. M34846
Exp. 6-30-24
MECHANICAL
STATE OF CALIFORNIA

Consultant

THOMAS JEFFERSON MIDDLE SCHOOL KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
Madera, CA

Project

TYPICAL INFORMATION
PLUMBING DETAILS

Drawing

darden architects
ARCHITECTURE PLANNING INTERIORS
www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

LICENSED ARCHITECT
LAWRENCE J. ANTA
No. C26235
Exp. 10-31-24
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: D.M.
Drawn By: LEG
Checked By: D.M.
Reviewed By: R.C.

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Scale: None
Project Number: 2123
Date: 03/31/2023

X/P101

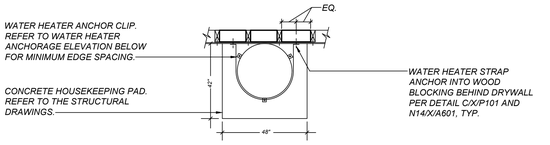
26 January 2023 2:12 PM g:\2021\21188 madera usd thomas jefferson ms kitchen remodel\4-drawings\5. PLANS\P101 – DETAILS.dwg anthony a

PLUMBING FIXTURE AND EQUIPMENT SCHEDULE

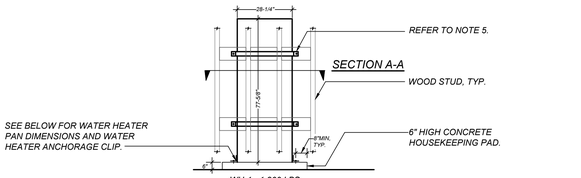
MARK	FIXTURE	CONNECTION SIZES				DESCRIPTION
		S or W	V	CW	HW	
WH-1	GAS WATER HEATER (ELECTRIC REQ'D)	-	4"/4"	1-1/2"	1-1/2"	BRADFORD WHITE "eF SERIES" ULTRA HIGH EFFICIENCY GAS WATER HEATER MODEL #EF-100T-250E-3NA, 100 GALLON STORAGE CAPACITY, 250,000 BTU/Hr. INPUT, ASME CONSTRUCTION, RECOVERY OF 364 GPH AT 80°F TEMPERATURE RISE, FULL SIZE T&P RELIEF VALVE, AND A THERMAL EFFICIENCY RATING OF 96%. 28-1/4" DIAMETER, 77-5/8" TALL WITH SIDE CONNECTIONS. SET SUPPLY TEMP. TO MASTER MIXING VALVE AT 140°F. PROVIDE 4" CPVC AIR INTAKE AND FLUE EXHAUST THRU THE ROOF. IT IS ACCEPTABLE TO USE A COMBINED SCHEDULE 40 CPVC CONCENTRIC THRU THE ROOF KIT. BRADFORD WHITE #A2123601 CONDENSATE NEUTRALIZATION KIT (OR EQUAL). SIZED PER EQUIPMENT CAPACITY. FOR ANCHORAGE AND WATER HEATER ASSEMBLY, REFER TO DETAIL A/X/P102. GAS: 250,000 BTU/Hr. INPUT, 7.0"W.C. MIN. RUNNING, 14.0"W.C. MAX. STATIC. ELECT: 115V AC WEIGHT: 1,800 LBS.
CP-1	DOMESTIC HOT WATER CIRCULATING PUMP (ELECTRIC REQ'D)	-	-	-	-	B&G/XYLEM LEAD-FREE WET ROTOR CIRCULATOR #NBF-25, LEAD FREE BRONZE OR STAINLESS STEEL, (OR GRUNDFOS OR TACO EQUAL) THREE SPEED IN-LINE CENTRIFUGAL PUMP WITH B&G/XYLEM FLANGED IPS CONNECTIONS WITH INTEGRAL BALL AND CHECK VALVES. 3/4" FLANGE, SPEED 1, 3.81 GPM, 11.3 FT HEAD. PROVIDE WITH AQUASTAT, WITH MINIMUM TEMP AT 120°. REFER TO DETAIL A/X/P102. WEIGHT = 11 LBS. ELECTRICAL: 115V, SINGLE PHASE 125 WATTS, 2,950 RPM, 1.1 FLA.
TP-1	TRAP PRIMER (ELECT. REQ'D)	-	-	3/4"	-	PRECISION PLUMBING PRODUCTS MODEL #MPB-500-115V-DU FOR 1 TO 4 TRAPS WITH DISTRIBUTION UNIT. PROVIDE A LOCKING FIRE-RATED ACCESS DOOR WHERE REQUIRED. PT-6, PT-8, PT-10, PT-12 (OR MIFAB EQUAL) FOR MORE THAN FOUR TRAPS TO BE PRIMED. RECESSED MOUNT CABINET WITH ACCESS DOOR AND CYLINDER LOCK. PROVIDE STAINLESS STEEL DOOR IN AREAS WITH CERAMIC TILE WALL FINISH. TRAP PRIMER IS FACTORY ASSEMBLED AND PRE-PIPED WITH COPPER MANIFOLD, INLET BALL VALVE, ELECTRIC SOLENOID VALVE, TIMER, AND VACUUM BREAKER. REFER TO DRAWINGS FOR NUMBER OF DRAINS SERVED. PROVIDE SHUT-OFF VALVE AND SHOCK ABSORBER SA-1 IMMEDIATELY UPSTREAM OF TRAP PRIMER. ELECTRICAL: 120 VOLT/1Ø.
TP-2	TRAP PRIMER	-	-	1/2"	-	J.R. SMITH #2694 "TRAP-DEFENDER" PRESSURE DROP ACTIVATED TRAP SEAL PRIMER (OR MIFAB EQUAL). OPERATES AT PRESSURES FROM 20-80 PSI WITH A MINIMUM DROP OF 3 PSI. DISTRIBUTION UNIT #2694DA AS REQUIRED FOR 2 TO 4 TRAPPED DRAINS. INSTALL WITH SHUT-OFF VALVE FOR SERVICING ON THE INLET SIDE. LOCATE BEHIND STAINLESS STEEL ACCESS DOOR WITH SCREWDRIVER CAM LATCH (NO KEYS)
PVB-1	BACKFLOW PREVENTER (DISHWASHER)	-	-	-	-	WATTS #LF009PCQT-S-SC-3/4" LEAD FREE SPILL-RESISTANT ANTI-SIPHON VACUUM BREAKER BACKFLOW PREVENTER, QUARTER TURN SHUTOFF, WITH "S" STRAINER AND "SC" SATIN CHROME FINISH. CERTIFIED TO ASSE 1056. LOCATE MINIMUM 12" ABOVE ALL DOWNSTREAM PIPING AND FLOOR-LEVEL RIM OF EQUIPMENT, AND IN COMPLIANCE WITH MANUFACTURER'S INSTALLATION GUIDELINES.
BFP-1	REDUCED PRESSURE BACKFLOW PREVENTER (COMBI UNIT)	-	-	-	-	WATTS #U-LF009-QT-S 3/4" LEAD FREE REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY W/ QUARTER-TURN BALL VALVES, STRAINER, UNION CONNECTIONS AND AIR GAP DRAIN. SATIN CHROME FINISH. PIPE FULL SIZE DRAIN LINE FROM AIR GAP TO NEAREST RECEPTACLE, PER DETAIL F/X/P101.
HT-1	HEAT TRACE (ELECT. REQ'D)	-	-	-	-	RAYCHEM SELF-REGULATING XL-TRACE EDGE HEATING CABLE #5XLE1-CR, 5W/FT FOR PIPE FREEZE PROTECTION AND FLOW MAINTENANCE. RACHEM #RAYCLIC-PC POWER CONNECTION AND END SEAL. RAYCHEM #ECW-GF WALL MOUNTED DIGITAL ELEC. CONTROLLER W/25' TEMP SENSOR. RAYCHEM #GT66 GLASS TAPE ROLL. RAYCHEM #ETL ELECTRIC-TRACED LABELS. MAINTAIN TEMP. AT 40°F. AND PROVIDE 1" MIN. THICK FIBERGLASS PIPE INSULATION. ELECT.120V, 15 AMP BREAKER INQUIRES/CONTACT: PPG-PLUMBING PRODUCTS GROUP. PH#:408-513-5531
EV-1	SEISMIC SHUT-OFF EARTHQUAKE VALVE	-	-	-	-	PACIFIC SEISMIC PRODUCTS #VB-315F(60) (OR EQUAL) VERTICAL BOTTOM-IN, FLANGED EARTHQUAKE VALVE. 60 PSI MAXIMUM PRESSURE, NATURAL GAS, CA-DSA NO. #60-02.

PLUMBING FIXTURE AND EQUIPMENT SCHEDULE

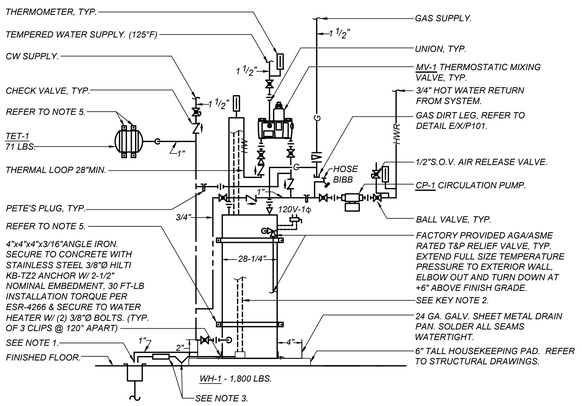
MARK	FIXTURE	CONNECTION SIZES				DESCRIPTION
		S or W	V	CW	HW	
L-1	LAVATORY	2"	2"	1/2"	1/2"	ZURN #Z5344 WALL HUNG LAVATORY (OR KOHLER EQUAL) CBC ACCESS COMPLIANT, 21-1/2"x18-1/4", VIT. CHINA WITH 4" CENTERS, McGUIRE #155A GRID DRAIN. ZURN #Z7440-XL-FC, AQUASPEC SIERRA FAUCET, (OR CHICAGO, T&S BRASS EQUAL) 0.5 GPM VANDAL RESISTANT AERATOR, SINGLE LEVER FAUCET. LEONARD #170A-LF-STSTL-REC-BP THERMOSTATIC MIXING VALVE MOUNTED BEHIND RECESSED WALL ACCESS PANEL BOX BELOW LAV WITH COLD WATER BYPASS. ASSE 1070 CERTIFIED. PIPING FROM THE ANGLE STOPS TO THE THERMOSTATIC MIXING VALVE SHALL BE RIGID TUBING. SET TEMPERATURE TO 105°F. JAY R. SMITH #0723 CONCEALED ARMS, AND SUPPORT BLOCKING FOR MOUNTING FIXTURE PER DETAIL C/X/P101. REFER TO ARCH DWGS FOR MOUNTING HEIGHT.
SS-1	MOP SINK	3"	2"	3/4"	3/4"	KOHLER "WHITBY" #K-6710, 28" x 28" FLOOR MOUNT, CORNER STYLE ENAMELED CAST IRON MOP SINK. KOHLER #K-8940 RIM GUARD. KOHLER #K-9146 SERVICE SINK STRAINER. CHICAGO #897-CCP (OR T&S BRASS EQUAL) WALL MOUNT POLISHED CHROME FAUCET WITH VACUUM BREAKER, INTEGRAL CHECK VALVES, STOPS, & WALL BRACE. FLORESTONE #MR-370 60" HOSE WITH WALL BRACKET. FLORESTONE #MR-372 MOP HANGER. PROVIDE 3" WALL CLEANOUT.
FD-1	FLOOR DRAIN	-	2"	1/2"	-	MIFAB F1100-C-S5-3-HP (OR JR SMITH EQUAL) LAQUERED CAST IRON BODY WITH 5" SQUARE "STAINLESS STEEL" HEEL PROOF STRAINER AND TRAP PRIMER CONNECTION. REFER TO DRAWINGS FOR OUTLET SIZE.
FS-1	FLOOR SINK	-	2"	1/2"	-	MIFAB FS1730-FL-C-3-150 (OR JR SMITH EQUAL) 12"x12"x6" DEEP WITH ANCHOR FLANGE, DOME BOTTOM STRAINER & STAINLESS STEEL RIM WITH 1/2 GRATE. INSTALL FLUSH WITH FINISH FLOOR PROVIDE TRAP PRIMER CONNECTION. REFER TO DRAWINGS FOR OUTLET SIZE.
FS-2	FLOOR SINK	-	2"	1/2"	-	MIFAB FS1770-FL-C-3-150 (OR JR SMITH EQUAL) 16"x16"x9" DEEP WITH ANCHOR FLANGE, FLASHING CLAMP, DOME BOTTOM STRAINER & "STAINLESS STEEL" RIM WITH 1/2 GRATE. INSTALL FLUSH WITH FINISH FLOOR. PROVIDE TRAP PRIMER CONNECTION, REFER TO DRAWINGS FOR OUTLET SIZE.
FS-3	FLOOR SINK	-	2"	1/2"	-	MIFAB FS1750-FL-C-3-150 (OR JR SMITH EQUAL) 8" ROUND x 6" DEEP WITH ANCHOR FLANGE, DOME BOTTOM STRAINER & STAINLESS STEEL RIM WITH 1/2 GRATE. INSTALL FLUSH WITH FINISH FLOOR. PROVIDE TRAP PRIMER CONNECTION. REFER TO DRAWINGS FOR OUTLET SIZE.
HB-1	HOSE BIB (INTERIOR)	-	-	3/4"	-	WOODFORD #24PC (OR MIFAB EQUAL) OPTIONAL POLISHED CHROME WALL HOSE VALVE WITH LOCKSHIELD, "NON-REMOVABLE" VACUUM BREAKER, AND OPTIONAL LOOSE TEE KEY HANDLE WITH MODEL 34HD. 3/4" INLET REQUIRED AT ALL HOSE BIBBS.
HB-2	HOSE BIB (ROOF)	-	-	3/4"	-	WOODFORD #Y24-BR ROUGH BRONZE VERTICAL HOSE VALVE WITH LOCKSHIELD, NON-REMOVABLE VACUUM BREAKER, & LOOSE TEE KEY HANDLE WITH MODEL 34HD. REFER TO DETAIL H/X/P101.
SB-1	SUPPLY BOX	-	-	1/2"	-	SPECIALTY PRODUCTS #OB-509, METAL RECESSED REFRIGERATOR WATER SUPPLY BOX WITH WHITE FINISH, INTEGRAL SHUT-OFF VALVE AND MINI-WATER HAMMER ARRESTER.
SA-1	SHOCK ABSORBER	-	-	3/4"	-	JAY R. SMITH #5005, (OR MIFAB EQUAL) STAINLESS STEEL CONSTRUCTION, P.D.I. SYMBOL "A" FOR UP TO 11 FIXTURE UNITS. INSTALL IN UPWARD POSITION.
SA-2	SHOCK ABSORBER	-	-	1"	-	JAY R. SMITH #5020, (OR ZURN EQUAL) STAINLESS STEEL CONSTRUCTION, P.D.I. SYMBOL "C" FOR UP TO 60 FIXTURE UNITS. INSTALL IN UPWARD POSITION.
SA-3	SHOCK ABSORBER	-	-	3/4"	-	JAY R. SMITH #5210, (OR MIFAB EQUAL) SPUN COPPER CASING, P.D.I. SYMBOL "B" FOR UP TO 32 FIXTURE UNITS. INSTALL IN UPWARD POSITION. CERTIFIED TO ASSE 1010.
TET-1	THERMAL EXPANSION TANK	-	-	3/4"	-	WESSELS TTA-12 (OR EQUAL), 5 GALLON TANK VOLUME, 3.3 GALLON ACCEPTANCE, ASME RATED WITH IN-LINE CONNECTIONS AND WITH FDA APPROVED BLADDER FOR POTABLE WATER USE. REQUEST WITH CALIF. CODE SIGHT GLASS OPERATING WEIGHT - 71 LBS. REFER TO DETAIL A/X/P102.
MV-1	THERMOSTATIC MIXING VALVE (WATER HEATER)	-	-	1"	1"/ 1-1/4"	BRADLEY #S59-3080-HL80-R-H-B-P THERMOSTATIC HIGH-LOW MIXING VALVE WITH 1" CW/HW INLETS AND 1-1/4" TEMPERED OUTLET. 26 GPM @ 5 PSI PD, PIPED ASSEMBLY WITH INLET AND OUTLET SHUT-OFF VALVES AND WALL BRACKET. SET OUTLET TEMP @ 125°F.
MV-2	THERMOSTATIC MIXING VALVE (POINT OF USE)	-	-	-	-	LEONARD #170A-LF-STSTL-REC-BP THERMOSTATIC MIXING VALVE MOUNTED BEHIND RECESSED WALL ACCESS PANEL BOX BELOW FIXTURE WITH COLD WATER BYPASS. ASSE 1070 CERTIFIED. PIPING FROM THE ANGLE STOPS TO THE THERMOSTATIC MIXING VALVE SHALL BE RIGID TUBING. SET TEMPERATURE TO 105°F.



SECTION A-A (WOOD STUD CONDITION)
SCALE: NONE



WATER HEATER ANCHORAGE ELEV.
SCALE: NONE



NOTE:
1. DISCHARGE 1" WATER HEATER PAN DRAIN AND CONDENSATE DRAIN TO ADJACENT FLOOR SINK WITH AIR GAP PER DETAIL F/X/P101. SEAL PENETRATION AT PAN WITH G.E. SILICONE.
2. EXTEND 4" SCH. 40 CPVC COMBUSTION AIR INTAKE AND EXHAUST UP THRU ROOF. TERMINATE IN COMPLIANCE WITH THE MANUFACTURER'S INSTALLATION GUIDELINES. IT IS ACCEPTABLE TO USE A COMBINED SCHEDULE 40 CPVC CONCENTRIC THRU THE ROOF KIT.
3. PROVIDE TRAP AND INSTALL MANUFACTURER RECOMMENDED ACID NEUTRALIZATION KIT. DISCHARGE FULL SIZE FLUE CONDENSATE TO FLOOR SINK WITH AIR GAP.
4. MAINTAIN MINIMUM DISTANCE FROM ANCHOR BOLT TO SIDE OF HOUSEKEEPING PAD.
5. 18 GA.x1-1/2"WIDE GALV. STEEL STRAP AROUND WATER HEATER AND/OR EXPANSION TANK. SECURE BOTH ENDS WITH (1) 3/8" DIA. x 1-1/2" LAG SCREW CENTERED ON WOOD BLOCKING IN WALL, (TYP. OF 2 STRAPS). REFER TO DETAIL C/X/P101 AND N14/X/A601 FOR WOOD BLOCKING, TYP. STRAPS SHALL BE LOCATED WITHIN THE UPPER AND LOWER 1/3 OF THE WATER HEATER. PROVIDE STANDARD CUT WASHER AT STRAP SCREW.

WATER HEATER (WH-1) DETAIL

SCALE: NONE

A / X/P102

PLUMBING FIXTURE AND EQUIPMENT SCHEDULE

MARK	FIXTURE	CONNECTION SIZES				DESCRIPTION
		S or W	V	CW	HW	
WC-1	WATER CLOSET	4"	2"	1"	-	ZURN #Z5615-BWL (OR KOHLER OR SLOAN EQUAL) HET ELONGATED WALL-HUNG ECOVANTAGE FLUSH VALVE TOILET. ZURN #Z6000PL-HET (OR SLOAN EQUAL) MANUAL DIAPHRAGM FLUSH VALVE, 1.28 GPF, WITH VANDAL RESISTANT STOP CAP. ZURN #Z5956SS-EL-STS ELONGATED, EXTRA HEAVY DUTY, PREMIUM WHITE, OPEN FRONT TOILET SEAT, LESS COVER, WITH SELF-SUSTAINING STAINLESS STEEL CHECK HINGE. JAY R. SMITH #0410Y VERTICAL SUPPORT CARRIER ADJUSTED FOR +17" TO TOP OF SEAT. FLUSH VALVE CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET STALL.
WC-2	WATER CLOSET	4"	2"	1"	-	EXISTING AMERICAN STANDARD ELONGATED WALL-HUNG FLUSH VALVE TOILET. EXISTING SLOAN ROYAL MANUAL FLUSH VALVE. EXISTING ELONGATED, OPEN FRONT TOILET SEAT, LESS COVER, WITH SELF-SUSTAINING STAINLESS STEEL CHECK HINGE. JAY R. SMITH #0542FY, COMPACT FIXTURE VERTICAL SUPPORT CARRIER, 4" NO-HUB W/2" VENT. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT FIXTURE LOCATION AND MOUNTING HEIGHT. FLUSH VALVE CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET STALL.

DSA File No.: 20-30

DSA Application No.: 02-120517

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DIV. OF THE STATE ARCHITECT
APP: 02-120517 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

Agency Approval

General Notes

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(559) 431-0101 21188 FAX (559) 431-1342
REGISTERED PROFESSIONAL ENGINEER BRIAN W. KAMPS No. M34846 Exp. 6-30-24 MECHANICAL STATE OF CALIFORNIA
Consultant

THOMAS JEFFERSON MIDDLE SCHOOL
KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
Madera, CA
Project

TYPICAL INFORMATION
PLUMBING SCHEDULES & DETAILS
Drawing

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Architect

No.	Revision/Submission	Date

Revision

		Designed By: D.M.	Copyright 2023 Darden Architects
Scale:	None	Drawn By: LEG	X/P102
Project Number:	2123	Checked By: D.M.	
Date:	03/31/2023	Reviewed By: R.C.	

26 January 2023 2:12 PM p:\2021\21188 madera usd thomas jefferson ms kitchen remodel\4-drawings\5. P\X/P102 – DETS & SCHEDS.dwg anthony o

FIXTURE UNIT SUMMARY

Project No.: 21188
Project: THOMAS JEFFERSON MIDDLE SCHOOL - KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
Date: 01/26/23
Prepared By: D.MUROV
File Name: WATER - DRAIN - SEPTIC SYSTEM CALCS - V1.6

LAWRENCE ENGINEERING GROUP
7084 North Maple Ave - Suite 101, Fresno, California 93720
559.431.0101 FAX (559) 431-1362

NO. OF FIXTURES	TYPE OF FIXTURE [FROM WATER SUPPLY & DRAIN FIXTURE UNIT TABLE - SEE TAB BELOW]	BOTH DOR & DHW AT FIXTURE OR DRAIN	COLD WATER			HOT WATER			SEWER		
			W.S'FU PER FIXTURE	TOTAL W.S'FU	MIN. W.S BRANCH SIZE	W.S'FU PER FIXTURE	TOTAL W.S'FU	MIN. W.S BRANCH SIZE	DSFU PER FIXTURE	TOTAL DSFU	MIN. TRAP SIZE
	PLUMBING FIXTURES										
1	WATER CLOSET, FV, 1.6 GPF	N	5.00	5.00	1"				4.00	4.00	3"
1	LAVATORY	Y	0.75	0.75	1/2"	0.75	0.75	1/2"	1.00	1.00	1-1/4"
1	SERVICE SINK	Y	2.25	2.25	3/4"	2.25	2.25	3/4"	3.00	3.00	2", 3"
14	FLOOR SINK (2")	D							2.00	28.00	2"
2	FLOOR SINK (4")	D							4.00	8.00	4"
	FLOOR DRAIN	D							2.00	0.00	2"
	HOSE BIBB	N	2.50	0.00	3/4"						
	HOSE BIBB, EACH ADDED ON SAME LINE	N	1.00	0.00	3/4"						
	FOOD SERVICE KITCHEN EQUIPMENT										
3	HAND SINK	Y	1.13	3.39	1/2"	1.13	3.39	1/2"	2.00	6.00	1-1/2"
2	PREP SINK FAUCET	Y	2.00	4.00	1/2"	2.00	4.00	1/2"			
1	PRE-RINSE FAUCET	Y	2.00	2.00	1/2"	2.00	2.00	1/2"			
2	POTWASH SINK FAUCET	Y	2.25	4.50	3/4"	2.25	4.50	3/4"			
3	COMBI-OVEN WATER FILTER	Y	2.25	6.75	3/4"						
3	COMBI-OVEN NON-FILTERED	Y	2.25	6.75	3/4"						
2	FLOOR TROUGH	D							4.00	8.00	4"
1	TILT SKILLET	Y	2.25	2.25	3/4"	2.25	2.25	3/4"			
6	HOTCOLD FOOD WELLS	N				1.50	9.00	1/2"			
1	CHEF'S SINK FAUCET	Y	1.50	1.50	1/2"	1.50	1.50	1/2"			
1	HI TEMP WARE WASHER W/BUILT-IN BOOSTER	N	2.25	2.25	3/4"						
1	HI TEMP WARE WASHER - DRAIN TEMPERING	N	1.13	1.13							
	TOTAL FIXTURE UNITS			42.52			29.64			58.00	

DOMESTIC WATER DEMAND AND SIZING

Project No.: 21188
Project: THOMAS JEFFERSON MIDDLE SCHOOL - KITCHEN
MADERA UNIFIED SCHOOL DISTRICT
Date: 01/26/23
Location:
Prepared By: D.MUROV
File Name: WATER - DRAIN - SEPTIC SYSTEM CALCS - V1.6

LAWRENCE ENGINEERING GROUP
7084 North Maple Ave - Suite 101, Fresno, California 93720
559.431.0101 FAX (559) 431-1362

Meter Size: 4"

System Type (1): Predominantly Flushometer Valves — X
Predominantly Flush Tanks

42.52 Water Fixture Units Equal — 47 GPM

Misc. Added Flow - [DESCR.] 0.0 GPM — 0 GPM

Misc. Added Flow - [DESCR.] 0.0 GPM — 0 GPM

Total Flow 47 GPM

Total distance from +5'-0 from bldg ext. to most remote Plumbing Fixture: 225 Ft.
Total rise for Head Loss 0 Ft. x 0.43: 0.0 PSI
PSI required for Water Closet (15 PSI): 25.0 PSI
PSI Flow Loss through Water Meter (1.5 PSI): 1.5 PSI
PSI Flow Loss through Backflow Preventer (10 - 12 PSI): 12.0 PSI
: PSI

Area Minimum PSI: 47.5 PSI — Flow Test (4/13/22):
Total Loss in PSI: 38.5 PSI — **60 PSI Static, 54 PSI Residual**
Total Remaining PSI available: 9.0 PSI

9.0 PSI available divided by 225 Total Feet x 100 = 4.0 PSI / 100'

PIPE SIZING TABLE

6" Pipe will deliver		GPM (2) for		F.V. Fixture Units		F.T. Fixture Units
4" Pipe will deliver		GPM (2) for		F.V. Fixture Units		F.T. Fixture Units
3" Pipe will deliver		GPM (2) for		F.V. Fixture Units		F.T. Fixture Units
2-1/2" Pipe will deliver	87	GPM (2) for	181	F.V. Fixture Units	310	F.T. Fixture Units
2" Pipe will deliver	57	GPM (2) for	66	F.V. Fixture Units	160	F.T. Fixture Units
1-1/2" Pipe will deliver	33	GPM (2) for	16	F.V. Fixture Units	60	F.T. Fixture Units
1-1/4" Pipe will deliver	21	GPM (2) for	4.5	F.V. Fixture Units	32	F.T. Fixture Units
1" Pipe will deliver	13	GPM (2) for	-	F.V. Fixture Units	18	F.T. Fixture Units
3/4" Pipe will deliver	5.8	GPM (2) for	-	F.V. Fixture Units	6	F.T. Fixture Units
1/2" Pipe will deliver	2.2	GPM (2) for	-	F.V. Fixture Units	1.5	F.T. Fixture Units

Notes:
(1) Mark an 'X' in the predominant system type.
(2) Based on 6 FPS maximum velocity [Iron Pipe]
F.V. is Flushometer Valve
F.T. is Flush Tank

KITCHEN EQUIPMENT PLUMBING SCHEDULE

PLUM. NO.	ITEM. NO.	DESCRIPTION	QTY.	WATER CONN. SIZE C.W.	WATER CONN. SIZE H.W.	WATER HGT.@ WALL	WASTE CONN. SIZE DIR.	WASTE CONN. SIZE INDIR.	WASTE HGT.@ WALL	GAS BTU/HR (x1,000)	GAS CONN. SIZE	GAS HGT. @ WALL	REMARKS
P1	-	*FLOOR SINK*	17EA.	-	-	-	-	-	0"	-	-	-	*FLOOR SINKS FS-# PROVIDED BY PLUMBING. REFER TO PLUMBING DRAWINGS FOR FIXTURE MARK #, OUTLET SIZE, AND SCHEDULE. INSTALL FLUSH WITH FINISH FLOOR. REFER TO DETAIL F/X/P101 FOR INDIRECT WASTE DISCHARGE.*
P2	4	*WALL MOUNTED HAND SINK FAUCET W/ 1/2" INLET 4" CENTER*	2EA.	*1/2"*	*1/2"*	*18"*	*1 1/2"*	-	*24"*	-	-	-	*1/2" CW AND 1/2" HW DOWN IN WALL TO THERMOSTATIC MIXING VALVE, MV-2 AND CONNECT TO FAUCET. SET OUTLET TEMP AT 105°F. PROVIDE 2" DIRECT WASTE AND 2" VENT ASSEMBLY WITH WCO.*
P3	8/9	*PREP SINK FAUCET W/ 1/2" INLET 8" CENTER DECK MOUNT*	1EA.	*1/2"*	*1/2"*	*16"*	-	*2"*	-	-	-	-	*1/2" CW AND 1/2" HW DOWN IN WALL, ELBOW OUT AND CONNECT TO FAUCET. EXTEND 2" INDIRECT WASTE FROM EACH COMPARTMENT TO FLOOR SINK WITH AIR GAP (CHROME OR PAINT SILVER). ROTARY WASTE VALVE PROVIDED WITH THE KITCHEN EQUIPMENT.*
P4	12	*PRE-RINSE FAUCET, SPLASH MOUNT FAUCET W/ 1/2" INLET 8" CENTER*	1EA.	*1/2"*	*1/2"*	*16"*	-	-	-	-	-	-	*1/2" CW AND 1/2" HW DOWN IN WALL, ELBOW OUT AND CONNECT TO FAUCET.*
P5	13	*POTWASH SINK FAUCET W/ 3/4" INLET 8" CENTER*	2EA.	*3/4"*	*3/4"*	*16"*	-	*2"*	-	-	-	-	*3/4" CW AND 3/4" HW DOWN IN WALL, ELBOW OUT AND CONNECT TO FAUCET. EXTEND 2" INDIRECT WASTE FROM EACH COMPARTMENT TO FLOOR SINK WITH AIR GAP (CHROME OR PAINT SILVER). ROTARY WASTE VALVE PROVIDED WITH THE KITCHEN EQUIPMENT.*
P6	15	*BLAST CHILLER INDIRECT DRAIN*	1EA.	-	-	-	-	*1 1/4"*	-	-	-	-	*EXTEND 1-1/2" INDIRECT DRAIN FROM BLAST CHILLER TO FLOOR SINK WITH AIR GAP. (CHROME OR PAINT SILVER)*
P7	17	*COMBI OVEN WATER FILTER*	2EA.	*3/4"*	-	*38"*	-	-	-	-	-	-	*PROVIDE S.O.V., INTERCONNECT WITH "P9" AND CONNECT TO COMBI OVEN.*
P8	17	*COMBI OVEN WATER FILTER*	1EA.	*3/4"*	-	*64"*	-	-	-	-	-	-	*PROVIDE S.O.V., INTERCONNECT WITH "P9" AND CONNECT TO COMBI OVEN.*
P9	17	*COMBI OVEN NON-FILTERED WATER CONNECTION*	3EA.	*3/4"*	-	*24"*	-	*2"*	-	-	-	-	*3/4" CW DOWN IN WALL. ELBOW OUT WITH 3/4" CW AND S.O.V. TO EACH BFP-1, BACKFLOW ASSEMBLY MOUNTED ON WALL ABOVE WATER FILTRATION UNIT "P7" AND "P8". OFFSET 3/4" CW BACK IN WALL AND ELBOW OUT AT WATER FILTRATION UNIT "P7" AND "P8" AND INTERCONNECT. OFFSET AND CONNECT TO COMBI UNIT. PROVIDE CHROME PLATED ESCUTCHEON AND UNION AT WALL PENETRATIONS, TYPICAL. PROVIDE BACKING IN WALL FOR BFP-1 AND WATER FILTRATION UNIT PER DETAIL C/X/P101. PROVIDE MANUFACTURER RECOMMENDED WATER AND DRAIN PIPE FOR CONNECTION TO AND FROM COMBI UNIT. EXTEND 2" INDIRECT WASTE WITH CONSTANT SLOPE OF AT LEAST 1.4" / FT OR 5% TO FLOOR SINK WITH AIR GAP. EXTEND FULL SIZE DRAIN LINE FROM BFP-1 TO NEAREST FLOOR SINK AND DISCHARGE WITH AIR GAP. INSTALL SEPARATE BFP-1 AND WATER FILTRATION UNIT FOR EACH COMBI OVEN.*
P10	17	*COMBI OVEN GAS*	3EA.	-	-	-	-	-	-	*304*	*1"*	*12"*	*1-1/2" GAS DOWN IN WALL. ELBOW OUT AND PROVIDE PLUG VALVE AND DIRT LEG PER DETAIL E/X/P101. CONNECT TO COMBI OVEN.*
P11	18	*FLOOR TROUGH*	2EA.	-	-	-	*4"*	-	*-10.25"*	-	-	-	*PROVIDE 4" DIRECT WASTE AND 2" VENT ASSEMBLY, AND 1/2" CW TRAP PRIMER CONNECTION.*
P12	20	*TILT SKILLET*	1EA.	*3/4"*	*3/4"*	*24"*	-	*2"*	-	-	-	-	*3/4" CW AND 3/4" HW DOWN IN WALL. ELBOW OUT TO FILTER PROVIDED WITH THE KITCHEN EQUIPMENT. OFFSET AND CONNECT TO TILT SKILLET. PROVIDE RATIONAL DRAIN CONNECTION KIT #87.00.746 AND EXTEND 2" INDIRECT WASTE TO FLOOR SINK WITH AIR GAP.*
P14	26	*WALL MOUNTED HAND SINK FAUCET W/ 1/2" INLET 4" CENTER*	1EA.	*1/2"*	*1/2"*	*18"*	*1 1/2"*	-	*24"*	-	-	-	*1/2" CW AND 1/2" HW DOWN IN WALL TO THERMOSTATIC MIXING VALVE, MV-2 AND CONNECT TO FAUCET. SET OUTLET TEMP AT 105°F. PROVIDE 2" DIRECT WASTE AND 2" VENT ASSEMBLY WITH WCO.*
P15	38	*PREP SINK FAUCET W/ 1/2" INLET 8" CENTER DECK MOUNT*	1EA.	*1/2"*	*1/2"*	*16"*	-	*2"*	-	-	-	-	*1/2" CW AND 1/2" HW DOWN IN WALL, ELBOW OUT AND CONNECT TO FAUCET. EXTEND 2" INDIRECT WASTE FROM EACH COMPARTMENT TO FLOOR SINK WITH AIR GAP (CHROME OR PAINT SILVER). ROTARY WASTE VALVE PROVIDED WITH THE KITCHEN EQUIPMENT.*
P16	39	*HOT/COLD FOOD WELLS*	6EA.	*1/2"*	-	*16"*	-	*1"*	-	-	-	-	*1/2" CW RISER WITH S.O.V. FROM BELOW FINISH FLOOR TO FOOD WELL AND CONNECT TO FILL FAUCET. EXTEND 1" INDIRECT WASTE TO FLOOR SINK WITH AIR GAP.*
P17	48	*CHEFS SINK FAUCET W/ 1/2" INLET 8" CENTER*	1EA.	*1/2"*	*1/2"*	*16"*	-	*2"*	-	-	-	-	*1/2" CW AND 1/2" HW RISERS WITH S.O.V. FROM BELOW FINISH FLOOR TO SINK FAUCET AND CONNECT. EXTEND 2" INDIRECT WASTE FROM SINK COMPARTMENT TO FLOOR SINK WITH AIR GAP (CHROME OR PAINT SILVER). ROTARY WASTE VALVE PROVIDED WITH THE KITCHEN EQUIPMENT.*
P18	14.2	*HI TEMP WARE WASHER*	1EA.	*3/4"*	-	*18"*	-	*2"*	-	-	-	-	*3/4" CW DOWN IN WALL TO DISHWASHER WITH INTEGRAL BOOSTER HEATER AND DRAIN WATER TEMPERING KIT. PROVIDE PVB-1 UPSTREAM OF THE SHOCK ABSORBER, SA-3 PER ASSE WHA STANDARD AND CONNECT TO DISHWASHER. PROVIDE SHUT-OFF VALVE IN THE WATER SUPPLY LINE AS CLOSE TO THE DISHWASHER AS POSSIBLE FOR SERVICING. WATER PRV IS STANDARD ON MACHINES WITH BOOSTER. INSTALL IN COMPLIANCE WITH DISHWASHER MANUFACTURER INSTALLATION GUIDELINES. PROVIDE 1/2" CW CONNECTION WITH BALL VALVE TO DRAIN WATER TEMPERING KIT. PROVIDE WITH KITCHEN EQUIPMENT AND INTERCONNECT WITH AUTOMATIC DRAIN VALVE. EXTEND 2" INDIRECT DRAIN FROM DISHWASHER TO FLOOR SINK WITH AIR GAP (CHROME OR PAINTED SILVER).*

PLUMBING NOTE(S):

(P#) *KEYNOTE WITH PREFIX "P" DENOTES FOOD SERVICE FURNISHED KITCHEN EQUIPMENT UNLESS OTHERWISE NOTED. REFER TO SPECIFICATION SECTION 11 40 00 AND KITCHEN LAYOUT "FS" PLANS FOR EXACT LOCATIONS, HEIGHTS OF ALL PLUMBING CONNECTIONS TO EQUIPMENT AND ADDITIONAL KITCHEN EQUIPMENT PLUMBING REQUIREMENTS.*

1. *REFER TO "TYPICAL KITCHEN EQUIPMENT PLUMBING NOTES", SHEET SD/P001, TYPICAL.*
2. *INSTALL IN COMPLIANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS, TYPICAL.*

DSA File No.: *20-30*

DSA Application No.: *02-120517*

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DATE: 04/25/2023

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General Notes

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MADERA UNIFIED SCHOOL DISTRICT
Madera, CA

Project

TYPICAL INFORMATION
PLUMBING KITCHEN EQUIPMENT SCHEDULE & CALCULATIONS

Drawing

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Architect

No.	Revision/Submission	Date

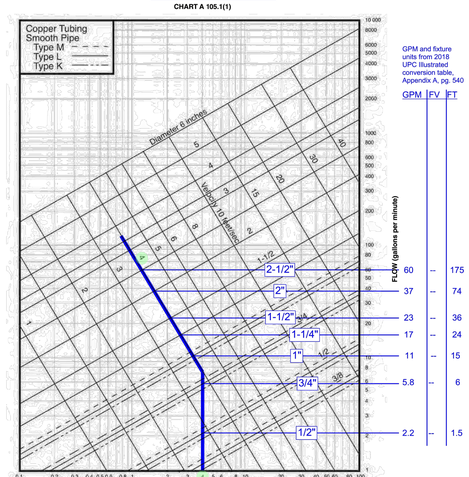
Revision

Designed By: D.M.
Drawn By: LEG
Checked By: D.M.
Reviewed By: R.C.

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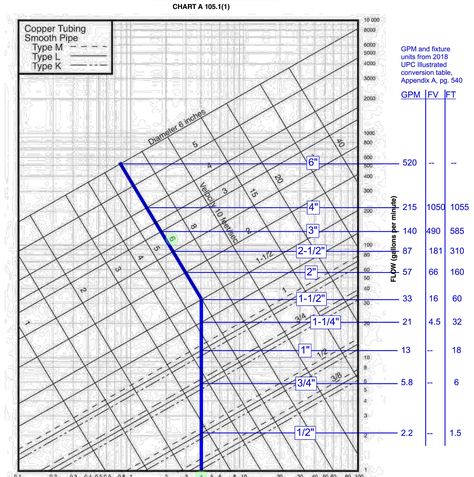
Scale: None
Project Number: 2123
Date: 03/31/2023

X/P103



FRICTION LOSS IN HEAD (pounds-force per square inch) PER 100-FOOT LENGTH

For SI units: 1 inch = 25 mm, 1 gallon per minute = 0.06 L/s, 1 pound-force per square inch = 6.8947 kPa, 1 foot = 304.8 mm, 1 foot per second = 0.3048 m/s



FRICTION LOSS IN HEAD (pounds-force per square inch) PER 100-FOOT LENGTH

For SI units: 1 inch = 25 mm, 1 gallon per minute = 0.06 L/s, 1 pound-force per square inch = 6.8947 kPa, 1 foot = 304.8 mm, 1 foot per second = 0.3048 m/s

GAS DEMAND FORM

Project No.: 21188
Project: Thomas Jefferson Middle School Kitchen Remodel
Madera Unified School District
Date: 09/13/22
Prepared By: D.Murov
File Name: 21188-GAS DEMAND.

LAWRENCE ENGINEERING GROUP

QUANTITY	EQUIPMENT	BTUH EACH	MBH EACH	TOTAL MBH	TOTAL CFH (1)
2	EXISTING H/C UNITS PER M-SHEETS (EST LOAD)	160000	160.0	320.0	320.0
	Mechanical Equipment	0	0.0	0.0	0.0
1	PACKAGE AIR CONDITIONING UNIT (HC-1 - Refer to M-sheets)	200000	200.0	200.0	200.0
1	PACKAGE AIR CONDITIONING UNIT (HC-2 - Refer to M-sheets)	200000	200.0	200.0	200.0
1	PACKAGE AIR CONDITIONING UNIT (HC-3 - Refer to M-sheets) HEAT PUMP (NO GAS)	0	0.0	0.0	0.0
		0	0.0	0.0	0.0
	Food Service Equipment		0.0	0.0	0.0
3	COMBI OVEN - GAS (6.5 - 10 inch W.C.)	303500	303.5	910.5	910.5
		0	0.0	0.0	0.0
	Plumbing Equipment	0	0.0	0.0	0.0
1	WATER HEATER (4.5 - 14"w.c. max, 7.0"w.c.min. recommended)	250000	250.0	250.0	250.0
		0	0.0	0.0	0.0
	TOTAL (EXISTING AND NEW)			1880.5	1880.5

NOTES
(1): BASED ON A NATURAL GAS HEATING VALUE OF 1,000 BTUH/CFH.
(2): TOTAL DEVELOPED LENGTH FROM GAS METER TO REMOTE KITCHEN CONNECTION = **150'** (INC. 50% FOR FTG FRICTION LOSS).
(3): GAS SUPPLY PRESSURE DOWNSTREAM OF GAS METER = 7"W.C. (WATER COLUMN)

TABLE 1215.2(1)
SCHEDULE 40 METALLIC PIPE [NFPA 54: TABLE 6.2(b)][1, 2]

GAS: NATURAL
INLET PRESSURE: LESS THAN 2 psi
PRESSURE DROP: 0.5 in. w.c.
SPECIFIC GRAVITY: 0.60

	PIPE SIZE (inch)												
NOMINAL:	½	¾	1	1¼	1½	2	2½	3	4	5	6	8	10
ACTUAL ID:	0.622	0.824	1.049	1.380	1.610	2.067	2.469	3.068	4.026	5.047	6.065	7.981	10.020
LENGTH (feet)	CAPACITY IN CUBIC FEET OF GAS PER HOUR												
125	44	92	173	355	532	1020	1630	2890	5890	10 600	17 200	35 400	64 300	102 000
150	40	83	157	322	482	928	1480	2610	5330	9650	15 600	32 100	58 300	92 300
175	37	77	144	296	443	854	1360	2410	4910	8880	14 400	29 500	53 600	84 900
200	34	71	134	275	412	794	1270	2240	4560	8260	13 400	27 500	49 900	79 000
250	30	63	119	244	366	704	1120	1980	4050	7320	11 900	24 300	44 200	70 000

HOT WATER DEMAND CALCULATION WORKSHEET

Establishment: Thomas Jefferson Middle School - Kitchen Remodel — Date: 11/7/2022

Make and model number of water heater: *Bradford White #EF-100T-250E-3NA (250,000 BTU/Hr. Input)*

Fill in Applicable Fixtures	# Units	X	Gallons	=	TOTAL GPH
3-Compartment sink (L x W x D) 2'x2'x1' ea. comp.	3 (basins)	x	7.5	=	*90 GPH*
Hand Sink	*3*	x	5	=	*15*
Mop Sink	*1*	x	15	=	*15*
Prep. Sink	*3*	x	5	=	*15*
Hi Temp Ware Washer w/ Built-in Booster	*1*	x	*(W ONLY)*	=	
Pre-Rinse Unit	*1*	x	45	=	*45*
Chefs Sink	*1*	x	*5*	=	*5*
Levatory	*1*	x	*5*	=	*5*
		x		=	
				Total GPH	= *190 GPH*

190 TOTAL GPH x *90* % (See sizing requirements below) = *171* GPH required

COMPUTING THE BTU INPUT (GAS WATER HEATERS)

GPH required x Degree Rise x 11 = *150,480* BTU input of water heater
171 *80*

~~**FORMULA FOR ELECTRIC WATER HEATERS**~~

~~GPH required x Degree Rise x 8.33 lb = KW input~~
~~98 x 3412 BTU/KW =~~

Note: Degree Rise for western county = 60°F. Eastern county = 80°F

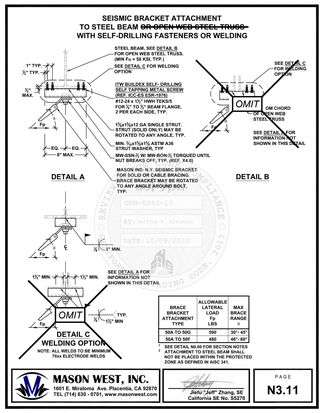
SIZING REQUIREMENTS FOR STORAGE WATER HEATERS (not instantaneous water heaters)

Food facilities with multi service eating utensils, heavy use (serving 3 meals a day)	**100% GPH required**
Food facilities with multi service eating utensils, moderate use	**90% GPH required**
Food facilities with single-service eating utensils, or don't use utensils at all	**80% GPH required**

Food facilities that sell only prepackaged foods. A water heater with a minimum storage capacity of 10 gallons must be provided.

Plan Check Construction Guidelines
Madera County Environmental Health Division
200 W. 4th Street, Suite 3100
Madera CA 93637
Phone (559) 675-7823 Fax (559) 675-7919
www.maderacounty.com

26 January 2023 2:12 PM p:\2021\21188 madera usd thomas jefferson mrs kitchen remodel\4--drawings\5. P\X/P103 -- KITCH EQUIP SCHEDS&CALCS.dwg anthony o



BRACE CONNECTION TYPE	ALLOWABLE LATERAL LOAD LBS	MAX BRACE ANGLE ∠
30A TO 30G	390	30°- 45°
50A TO 50F	480	46°- 60°

* SEE DETAIL M0.00 FOR SECTION NOTES
* ATTACHMENT TO STEEL BEAM SHALL NOT BE PLACED WITHIN THE PROTECTED ZONE AS DEFINED IN AISC 341.

MASON WEST, INC.
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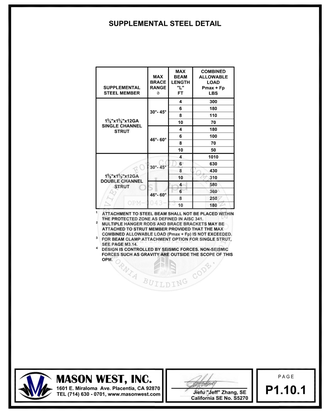
PAGE **N3.11**

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BRACE/BRACKET ATTACHMENT

SCALE: NONE

K X/P104



SUPPLEMENTAL STEEL MEMBER	MAX BRACE RANGE ∠	MAX BEAM LENGTH L FT	COMBINED ALLOWABLE LOAD Pmax + Fp LBS
1⅝"x1⅝"x12GA SINGLE CHANNEL STRUT	30°- 45°	4	300
		6	180
		8	110
		10	75
	46°- 60°	4	180
		6	100
		8	70
		10	50
1⅝"x1⅝"x12GA DOUBLE CHANNEL STRUT	30°- 45°	4	1010
		6	630
		8	430
		10	316
	46°- 60°	4	380
		6	350
		8	200
		10	150

* ATTACHMENT TO STEEL BEAM SHALL NOT BE PLACED WITHIN THE PROTECTED ZONE AS DEFINED IN AISC 341.
* MULTIPLE HANGER RODS AND BRACE BRACKETS MAY BE ATTACHED TO STRUT MEMBER PROVIDED THAT THE MAX COMBINED ALLOWABLE LOAD (Pmax + Fp) IS NOT EXCEEDED. FOR BEAM CLAMP ATTACHMENT OPTION FOR SINGLE STRUT, SEE PAGE M3.14.
* DESIGN IS CONTROLLED BY SEISMIC FORCES. NON-SEISMIC FORCES SUCH AS GRAVITY ARE OUTSIDE THE SCOPE OF THIS OPM.

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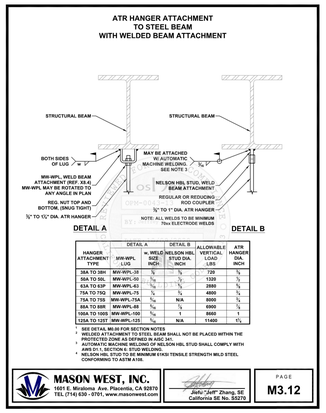
PAGE **P1.10.1**

10/09/2020 OPM-0043-13: Reviewed for Code Compliance by Jeffrey Kiumoto 740 of 846

SUPPLEMENTAL STEEL DETAIL

SCALE: NONE

G X/P104



HANGER ATTACHMENT TYPE	DETAIL A MW-WPL LUG	DETAIL B w. WELD NELSON HBL STUD DIA. INCH	ALLOWABLE VERTICAL LOAD LBS	ATR HANGER DIA. INCH
30A TO 30H	MW-WPL-08	⅝	720	⅝
50A TO 50L	MW-WPL-09	⅝	1320	⅝
63A TO 63F	MW-WPL-63	⅝	2885	⅝
75A TO 75G	MW-WPL-75	⅝	4800	⅝
75A TO 75I	MW-WPL-75A	⅝	8005	⅝
88A TO 88R	MW-WPL-88	⅝	6900	⅝
100A TO 100S	MW-WPL-100	⅝	8005	1
125A TO 125T	MW-WPL-125	⅝	11400	1⅛

* SEE DETAIL M0.00 FOR SECTION NOTES
* WELDED ATTACHMENT TO STEEL BEAM SHALL NOT BE PLACED WITHIN THE PROTECTED ZONE AS DEFINED IN AISC 341.
* AUTOMATIC MACHINE WELDING OF NELSON HBL STUD SHALL COMPLY WITH AWS D1.1, SECTION 9: STUD WELDING.
* NOMINAL WELD STRENGTH AT MINIMUM EXX70 TENSILE STRENGTH MILD STEEL COMPONENTS TO ASTM A108.

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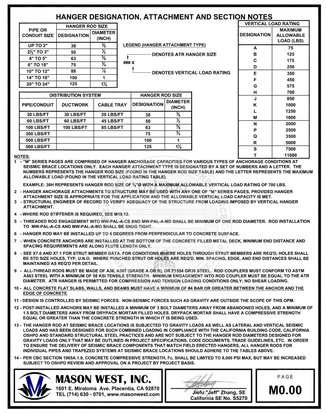
PAGE **M3.12**

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HANGER ATTACHMENT

SCALE: NONE

D X/P104



PIPE OR CONDUIT SIZE	HANGER ROD SIZE DESIGNATION	HANGER ROD SIZE DIAMETER (INCH)
UP TO 2"	38	⅜
2½" TO 3"	50	½
4" TO 5"	63	⅝
6" TO 10"	75	¾
10" TO 12"	88	⅞
14" TO 18"	100	1
20" TO 24"	125	1¼

LEGEND (HANGER ATTACHMENT TYPE)

88R X
- 88R X: DENOTES ATR HANGER SIZE
- 1: DENOTES VERTICAL LOAD RATING

DISTRIBUTION SYSTEM			HANGER ROD SIZE	
PIPE/CONDUIT	DUCTWORK	CABLE TRAY	DESIGNATION	DIAMETER (INCH)
30 LBS/FT	30 LBS/FT	20 LBS/FT	38	⅜
50 LBS/FT	50 LBS/FT	45 LBS/FT	50	½
100 LBS/FT	100 LBS/FT	85 LBS/FT	63	⅝
300 LBS/FT			75	¾
500 LBS/FT			100	1
505 LBS/FT			125	1¼

DESIGNATION	VERTICAL LOAD RATING MAXIMUM ALLOWABLE LOAD (LBS)
A	75
B	125
C	170
D	300
E	350
F	450
G	575
H	730
J	850
K	1000
L	1350
M	1650
N	2000
O	2500
Q	3500
R	5000
S	7500
T	11000

NOTES:
1. "N" SERIES PAGES ARE COMPRISED OF SEISMIC HANGER ANCHORAGE CAPACITIES FOR VARIOUS TYPES OF ANCHORAGE CONDITIONS AT SEISMIC BRACE LOCATIONS ONLY. EACH HANGER ATTACHMENT TYPE IS DESIGNATED BY A SET OF NUMBERS AND A LETTER. THE NUMBERS REPRESENT THE HANGER ROD SIZE DESIGNATION (HANGER ROD SIZE TABLE) AND THE LETTER REPRESENTS THE MAXIMUM ALLOWABLE LOAD (POUND IN THE VERTICAL LOAD RATING TABLE).
   EXAMPLE: 38N REPRESENTS HANGER ROD SIZE OF ⅜"Ø WITH A MAXIMUM ALLOWABLE VERTICAL LOAD RATING OF 700 LBS.
2. HANGER ANCHORAGE ATTACHMENTS TO STRUCTURE MAY BE USED WITH ANY ONE OF "N" SERIES PAGES, PROVIDED HANGER ATTACHMENT SIZE IS APPROPRIATE FOR THE APPLICATION AND THE ALLOWABLE VERTICAL LOAD CAPACITY IS MET.
3. STRUCTURAL ENGINEER OF RECORD TO VERIFY ADEQUACY OF THE STRUCTURE FROM LOADING IMPOSED BY VERTICAL HANGER ATTACHMENTS.
4. WHERE ROD STIFFENER IS REQUIRED, SEE M10.13.
5. THREADED ROD ENGAGEMENT INTO MW-PAL-A-CS AND MW-PAL-A-MO SHALL BE MINIMUM OF 1½ MW-PAL-A-CS AND MW-PAL-A-MO SHALL BE SNUG TIGHT.
6. HANGER ROD MAY BE INSTALLED UP TO 4 DEGREES FROM PERPENDICULAR TO CONCRETE SURFACE.
7. WHEN CONCRETE ANCHORS ARE INSTALLED AT THE BOTTOM OF THE CONCRETE FILLED METAL DECK, MINIMUM END DISTANCE AND SPACING REQUIREMENTS ARE ALONG FLUTE LENGTH ONLY.
8. SEE X1 AND X1.1 FOR STRUT MEMBER DATA. FOR CONDITIONS WHERE HOLES THROUGH STRUT MEMBERS ARE REQ'D, HOLES SHALL BE STD SIZE HOLES, TYP. U.N.O. WHERE PUNCHED STRUT OR HOLES ARE REQ'D, MIN. SPACING, EDGE, AND END DISTANCES SHALL BE AS SHOWN IN THE DETAILS.
9. ALL THREAD RODS MUST BE RANGE OF A36, A307 (GRADE A OR B), OR F1554 GR36 STEEL. ROD COUPLERS MUST CONFORM TO ASTM A563 STEEL WITH A MINIMUM OF 55 KSI TENSILE STRENGTH. MINIMUM ENGAGEMENT INTO ROD COUPLER MUST BE EQUAL TO THE ATR DIAMETER. ATR HANGER IS PERMITTED FOR COMPRESSION AND TENSION LOADING CONDITIONS ONLY; NO SHEAR LOADING.
10. ALL CONCRETE FLAT SLABS, WALLS, AND BEAMS MUST HAVE A MINIMUM OF #4 BAR OR GREATER BETWEEN THE ANCHOR AND THE EDGE OF CONCRETE.
11. DESIGN IS CONTROLLED BY SEISMIC FORCES. NON-SEISMIC FORCES SUCH AS GRAVITY ARE OUTSIDE THE SCOPE OF THIS OPM.
12. POST-INSTALLED ANCHORS MAY BE INSTALLED A MINIMUM OF 3 BOLT DIAMETERS AWAY FROM ABANDONED HOLES, AND A MINIMUM OF 6 BOLT DIAMETERS AWAY FROM ACTIVE HOLES, IF THE GROUT OR CONCRETE HAS A COMPRESSIVE STRENGTH EQUAL OR GREATER THAN THE CONCRETE STRENGTH IN WHICH IT IS BEING USED.
13. THE HANGER ROD AT SEISMIC BRACE LOCATIONS IS SUBJECTED TO GRAVITY LOADS AS WELL AS LATERAL AND VERTICAL SEISMIC LOADS AND HAS BEEN DESIGNED FOR SUCH COMBINED LOADING IN COMPLIANCE WITH THE CALIFORNIA BUILDING CODE, CALIFORNIA OSHPD AND STANDARD STRUCTURAL STEEL PRACTICES AND ARE NOT SUBJECT TO THE HANGER ROD DIAMETERS DESIGNED FOR GRAVITY LOADS ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND THE INSPECTOR OF RECORD (IOR) TO ENSURE THE DELIVERY OF SEISMIC BRACE COMPONENTS THAT MATCH FIELD ERECTED HANGERS. ALL HANGER RODS FOR INDIVIDUAL PIPES AND TRAPEZED SYSTEMS AT SEISMIC BRACE LOCATIONS SHOULD ADHERE TO THE TABLES ABOVE.
14. PER CBC SECTION 1905A.1.9, CONCRETE COMPRESSIVE STRENGTH, f'c, SHALL BE LIMITED TO 8,000 PSI MAX, BUT MAY BE INCREASED SUBJECT TO OSHPD REVIEW AND APPROVAL ON A PROJECT BY PROJECT BASIS.

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PAGE **M0.00**

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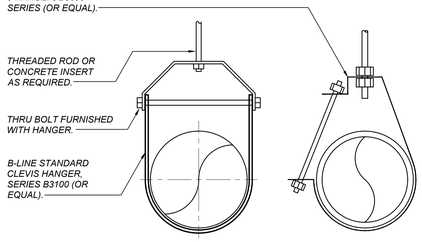
HANGER ATTACHMENT

SCALE: NONE

A X/P104

NOTES:
A. FOR PIPING SUPPORTS AND SPACING REFER TO:
i. PLUMBING DETAIL SHEETS X/P104 & X/P105.
ii. SPECIFICATION 22 00 00, PART 2.1, E.1 "PRODUCTS - PIPING MATERIALS - MISCELLANEOUS PIPING ITEMS - PIPE SUPPORT "AND SECTION 22 00 00, PART 3.1, "EXECUTION - PIPING INSTALLATION."

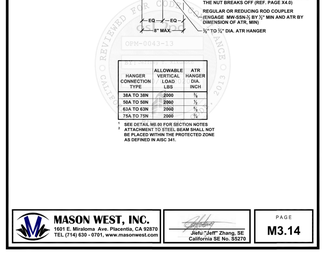
B. FOR SEISMIC PIPE BRACING REFER TO:
i. SHEET SD/P001 GENERAL PLUMBING NOTES, #5 & #6, AND ADDITIONAL SEISMIC BRACING REQUIREMENTS.
ii. PLUMBING DETAIL SHEETS X/P104 & X/P105.
iii. GENERAL MECHANICAL PROVISIONS SPECIFICATION SECTION 23 00 00, 1.21 A & B.



PIPE HANGER DETAIL

SCALE: NONE

H X/P104



HANGER CONNECTION TYPE	ALLOWABLE VERTICAL LOAD LBS	ATR HANGER DIA. INCH
38A TO 38N	2000	⅜
50A TO 50N	2000	½
63A TO 63N	2000	⅝
75A TO 75N	2000	¾

* SEE DETAIL M0.00 FOR SECTION NOTES
* ATTACHMENT TO STEEL BEAM SHALL NOT BE PLACES WITHIN THE PROTECTED ZONE AS DEFINED IN AISC 341.

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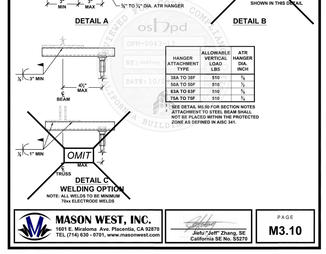
PAGE **M3.14**

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HANGER ATTACHMENT

SCALE: NONE

E X/P104



HANGER ATTACHMENT TYPE	ALLOWABLE VERTICAL LOAD LBS	ATR HANGER DIA. INCH
30A TO 30F	570	⅜
50A TO 50F	516	½
63A TO 63F	516	⅝
75A TO 75F	516	¾

* SEE DETAIL M0.00 FOR SECTION NOTES
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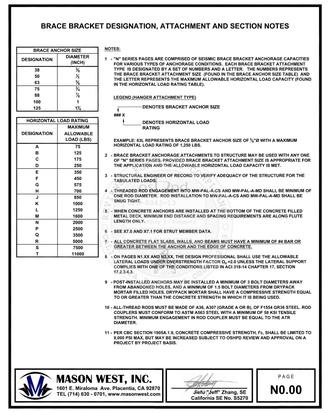
PAGE **M3.10**

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HANGER ATTACHMENT

SCALE: NONE

B X/P104



BRACE ANCHOR SIZE DESIGNATION	DIAMETER (INCH)
38	⅜
50	½
63	⅝
75	¾
88	⅞
100	1
125	1¼

HORIZONTAL LOAD RATING DESIGNATION	MAXIMUM ALLOWABLE LOAD (LBS)
A	75
B	125
C	170
D	250
E	350
F	450
G	575
H	730
J	850
K	1000
L	1350
M	1650
N	2000
P	2500
Q	3500
R	5000
S	7500
T	11000

NOTES:
1. "N" SERIES PAGES ARE COMPRISED OF SEISMIC BRACE BRACKET ANCHORAGE CAPACITIES FOR VARIOUS TYPES OF ANCHORAGE CONDITIONS AT SEISMIC BRACE LOCATIONS ONLY. EACH BRACE BRACKET ATTACHMENT TYPE IS DESIGNATED BY A SET OF NUMBERS AND A LETTER. THE NUMBERS REPRESENT THE BRACE BRACKET ATTACHMENT SIZE (PSUNG IN THE BRACE ANCHOR SIZE TABLE) AND THE LETTER REPRESENTS THE MAXIMUM ALLOWABLE HORIZONTAL LOAD CAPACITY (FOUND IN THE HORIZONTAL LOAD RATING TABLE).
   LEGEND (HANGER ATTACHMENT TYPE)
   88R X
   - 88R X: DENOTES BRACKET ANCHOR SIZE
   - 1: DENOTES HORIZONTAL LOAD RATING
   EXAMPLE: 63L REPRESENTS BRACE BRACKET ANCHOR SIZE OF ⅝"Ø WITH A MAXIMUM HORIZONTAL LOAD RATING OF 1,350 LBS.
2. BRACE BRACKET ANCHORAGE ATTACHMENTS TO STRUCTURE MAY BE USED WITH ANY ONE OF "N" SERIES PAGES, PROVIDED BRACE BRACKET ANCHOR SIZE IS APPROPRIATE FOR THE APPLICATION AND THE ALLOWABLE HORIZONTAL LOAD CAPACITY IS MET.
3. STRUCTURAL ENGINEER OF RECORD TO VERIFY ADEQUACY OF THE STRUCTURE FOR THE TABULATED LOADS.
4. THREADED ROD ENGAGEMENT INTO MW-PAL-A-CS AND MW-PAL-A-MO SHALL BE MINIMUM OF ONE ROD DIAMETER. ROD INSTALLATION TO MW-PAL-A-CS AND MW-PAL-A-MO SHALL BE SNUG TIGHT.
5. WHEN CONCRETE ANCHORS ARE INSTALLED AT THE BOTTOM OF THE CONCRETE FILLED METAL DECK, MINIMUM END DISTANCE AND SPACING REQUIREMENTS ARE ALONG FLUTE LENGTH ONLY.
6. SEE X7.3 AND X7.1 FOR STRUT MEMBER DATA.
7. ALL CONCRETE FLAT SLABS, WALLS, AND BEARS MUST HAVE A MINIMUM OF #4 BAR OR GREATER BETWEEN THE ANCHOR AND THE EDGE OF CONCRETE.
8. ON PAGES N1.XX AND M3.XX, THE DESIGN PROFESSIONAL SHALL USE THE ALLOWABLE LATERAL LOADS UNDER OVERSTRENGTH FACTOR Ω0 =2.5 UNLESS THE LATERAL SUPPORT COMPLIES WITH ONE OF THE CONDITIONS LISTED IN ACI 318-14 CHAPTER 17, SECTION 17.2.3.4.3.
9. POST-INSTALLED ANCHORS MAY BE INSTALLED A MINIMUM OF 3 BOLT DIAMETERS AWAY FROM ABANDONED HOLES, AND A MINIMUM OF 6 BOLT DIAMETERS AWAY FROM ACTIVE HOLES, IF THE GROUT OR CONCRETE HAS A COMPRESSIVE STRENGTH EQUAL TO OR GREATER THAN THE CONCRETE STRENGTH IN WHICH IT IS BEING USED.
10. ALL THREAD RODS MUST BE MADE OF A36, A307 GRADE A OR B), OF F1554 GR36 STEEL. ROD COUPLERS MUST CONFORM TO ASTM A563 STEEL WITH A MINIMUM OF 55 KSI TENSILE STRENGTH. MINIMUM ENGAGEMENT IN ROD COUPLER MUST BE EQUAL TO THE ATR DIAMETER.
11. PER CBC SECTION 1905A.1.9, CONCRETE COMPRESSIVE STRENGTH, f'c, SHALL BE LIMITED TO 8,000 PSI MAX, BUT MAY BE INCREASED SUBJECT TO OSHPD REVIEW AND APPROVAL ON A PROJECT BY PROJECT BASIS.

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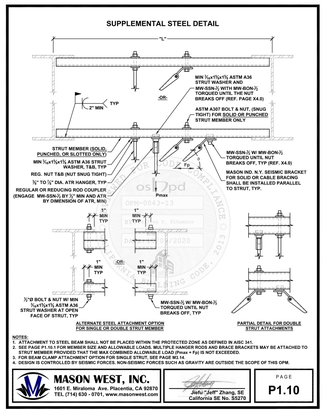
PAGE **N0.00**

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BRACE/BRACKET ATTACHMENT

SCALE: NONE

J X/P104



NOTES:
1. ATTACHMENT TO STEEL BEAM SHALL NOT BE PLACES WITHIN THE PROTECTED ZONE AS DEFINED IN AISC 341.
2. SEE PAGE P1.10.1 FOR MEMBER SIZE AND ALLOWABLE LOADS. MULTIPLE HANGER RODS AND BRACE BRACKETS MAY BE ATTACHED TO STRUT MEMBER PROVIDED THAT THE MAX COMBINED ALLOWABLE LOAD (Pmax + Fp) IS NOT EXCEEDED.
3. FOR BEAM CLAMP ATTACHMENT OPTION FOR SINGLE STRUT SEE M3.14.
4. DESIGN IS CONTROLLED BY SEISMIC FORCES. NON-SEISMIC FORCES SUCH AS GRAVITY ARE OUTSIDE THE SCOPE OF THIS OPM.

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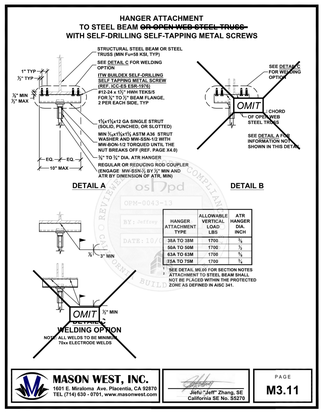
PAGE **P1.10**

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SUPPLEMENTAL STEEL DETAIL

SCALE: NONE

F X/P104



HANGER ATTACHMENT TYPE	ALLOWABLE VERTICAL LOAD LBS	ATR HANGER DIA. INCH
30A TO 30M	1700	⅜
50A TO 50M	1700	½
63A TO 63M	1700	⅝
75A TO 75M	1700	¾

* SEE DETAIL M0.00 FOR SECTION NOTES
* ATTACHMENT TO STEEL BEAM SHALL NOT BE PLACED WITHIN THE PROTECTED ZONE AS DEFINED IN AISC 341.

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HANGER ATTACHMENT

SCALE: NONE

C X/P104

DSA File No.:
20-30

DSA Application No.:
02-120517

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120517 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

Agency Approval

General Notes

LAWRENCE ENGINEERING GROUP
4910 E. Clinton Way, Suite 101 Fresno, CA 93727
(559) 431-0101 21188 FAX (559) 431-1342

REGISTERED PROFESSIONAL ENGINEER
RYAN W. EARLSON
No. M34846
Exp. 6-30-24
MECHANICAL
STATE OF CALIFORNIA

Consultant

THOMAS JEFFERSON MIDDLE SCHOOL KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
Madera, CA

Project

TYPICAL INFORMATION
PLUMBING DETAILS

Drawing

darden architects
ARCHITECTURE PLANNING INTERIORS
www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

LICENSED ARCHITECT
ANTONIO J. ANTE
No. C26230
Exp. 10-31-24
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

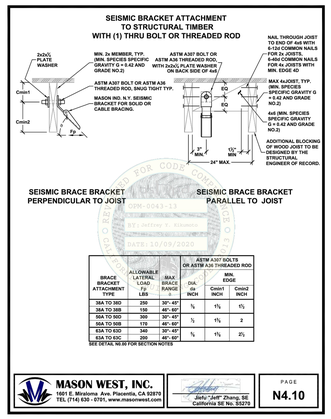
Revision

		Designed By:	D.M.
Scale:	None	Drawn By:	LEG
Project Number:	2123	Checked By:	D.M.
Date:	03/31/2023	Reviewed By:	R.C.

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X/P104

26 January 2023 2:12 PM p:\2021\21188 modera usd thomas jefferson ms kitchen remodel\4 - drawings\5 PLXP104 - DETAILS.dwg anthony o

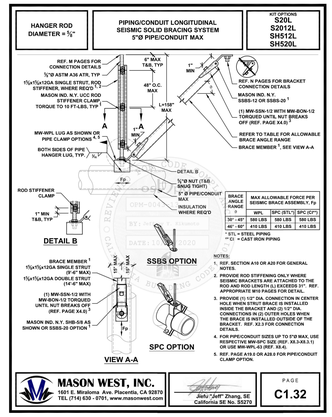


10/09/2020 OPM-0043-13: Reviewed for Code Compliance by Jeffrey Kikumoto 730 of 846

BRACE/BRACKET ATTACHMENT

SCALE: NONE

M X/P105

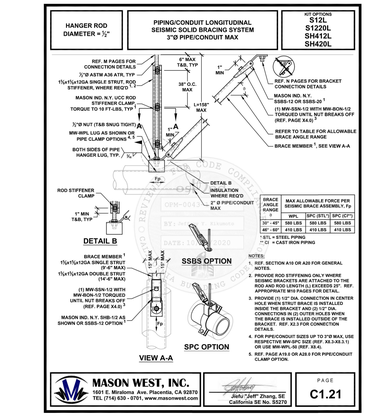


10/09/2020 OPM-0043-13: Reviewed for Code Compliance by Jeffrey Kikumoto 223 of 846

BRACING SYSTEM

SCALE: NONE

J X/P105

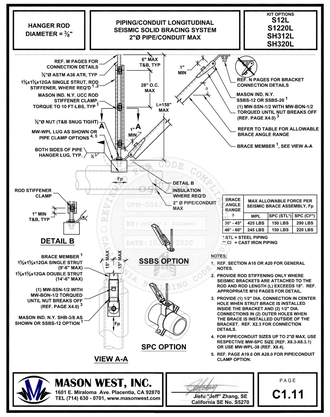


10/09/2020 OPM-0043-13: Reviewed for Code Compliance by Jeffrey Kikumoto 219 of 846

BRACING SYSTEM

SCALE: NONE

F X/P105



10/09/2020 OPM-0043-13: Reviewed for Code Compliance by Jeffrey Kikumoto 215 of 846

BRACING SYSTEM

SCALE: NONE

C X/P105

NOTES:

A. FOR PIPING SUPPORTS AND SPACING REFER TO:
i. PLUMBING DETAIL SHEETS X/P104 & X/P105.
ii. SPECIFICATION 22 00 00, PART 2.1, E.1 "PRODUCTS - PIPING MATERIALS - MISCELLANEOUS PIPING ITEMS - PIPE SUPPORT "AND SECTION 22 00 00, PART 3.1, "EXECUTION - PIPING INSTALLATION."

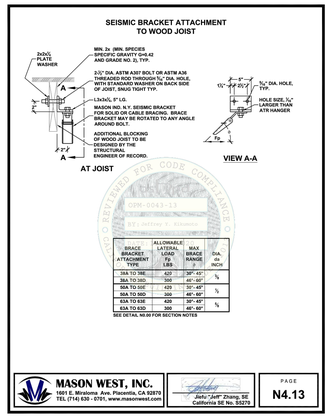
B. FOR SEISMIC PIPE BRACING REFER TO:
i. SHEET SD/P001 GENERAL PLUMBING NOTES, #5 & #6, AND ADDITIONAL SEISMIC BRACING REQUIREMENTS.
ii. PLUMBING DETAIL SHEETS X/P104 & X/P105.
iii. GENERAL MECHANICAL PROVISIONS SPECIFICATION SECTION 23 00 00, 1.21 A & B.

DSA File No.:
20-30

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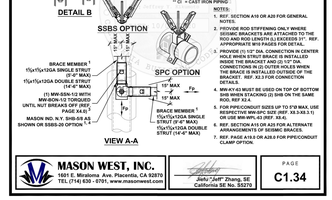


10/09/2020 OPM-0043-13: Reviewed for Code Compliance by Jeffrey Kikumoto 733 of 846

BRACE/BRACKET ATTACHMENT

SCALE: NONE

N X/P105

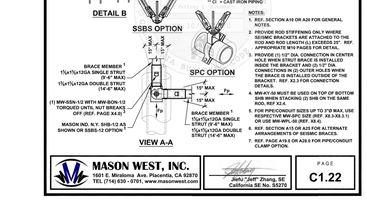


10/09/2020 OPM-0043-13: Reviewed for Code Compliance by Jeffrey Kikumoto 225 of 846

BRACING SYSTEM

SCALE: NONE

K X/P105

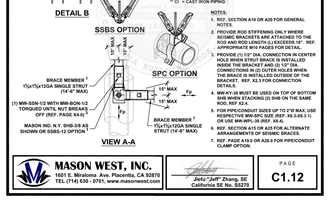


10/09/2020 OPM-0043-13: Reviewed for Code Compliance by Jeffrey Kikumoto 220 of 846

BRACING SYSTEM

SCALE: NONE

G X/P105



10/09/2020 OPM-0043-13: Reviewed for Code Compliance by Jeffrey Kikumoto 217 of 846

BRACING SYSTEM

SCALE: NONE

D X/P105

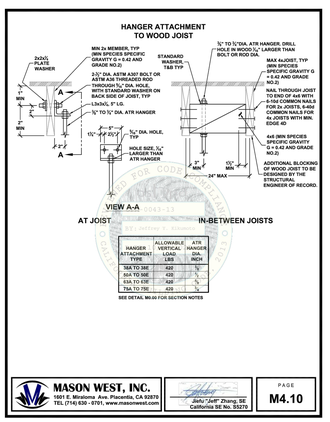


10/09/2020 OPM-0043-13: Reviewed for Code Compliance by Jeffrey Kikumoto 724 of 846

BRACE/BRACKET ATTACHMENT

SCALE: NONE

A X/P105

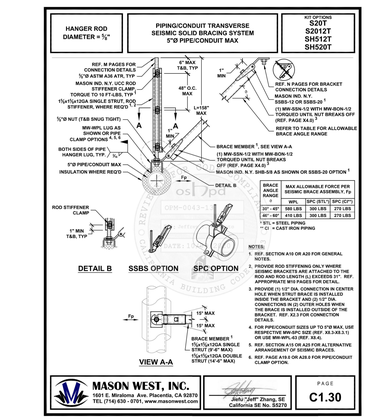


10/09/2020 OPM-0043-13: Reviewed for Code Compliance by Jeffrey Kikumoto 581 of 846

HANGER ATTACHMENT

SCALE: NONE

L X/P105

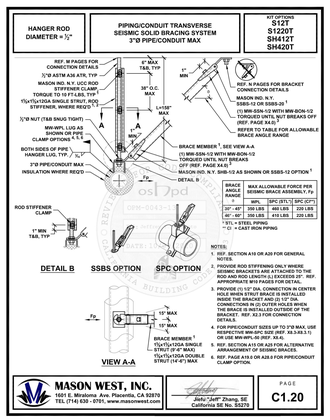


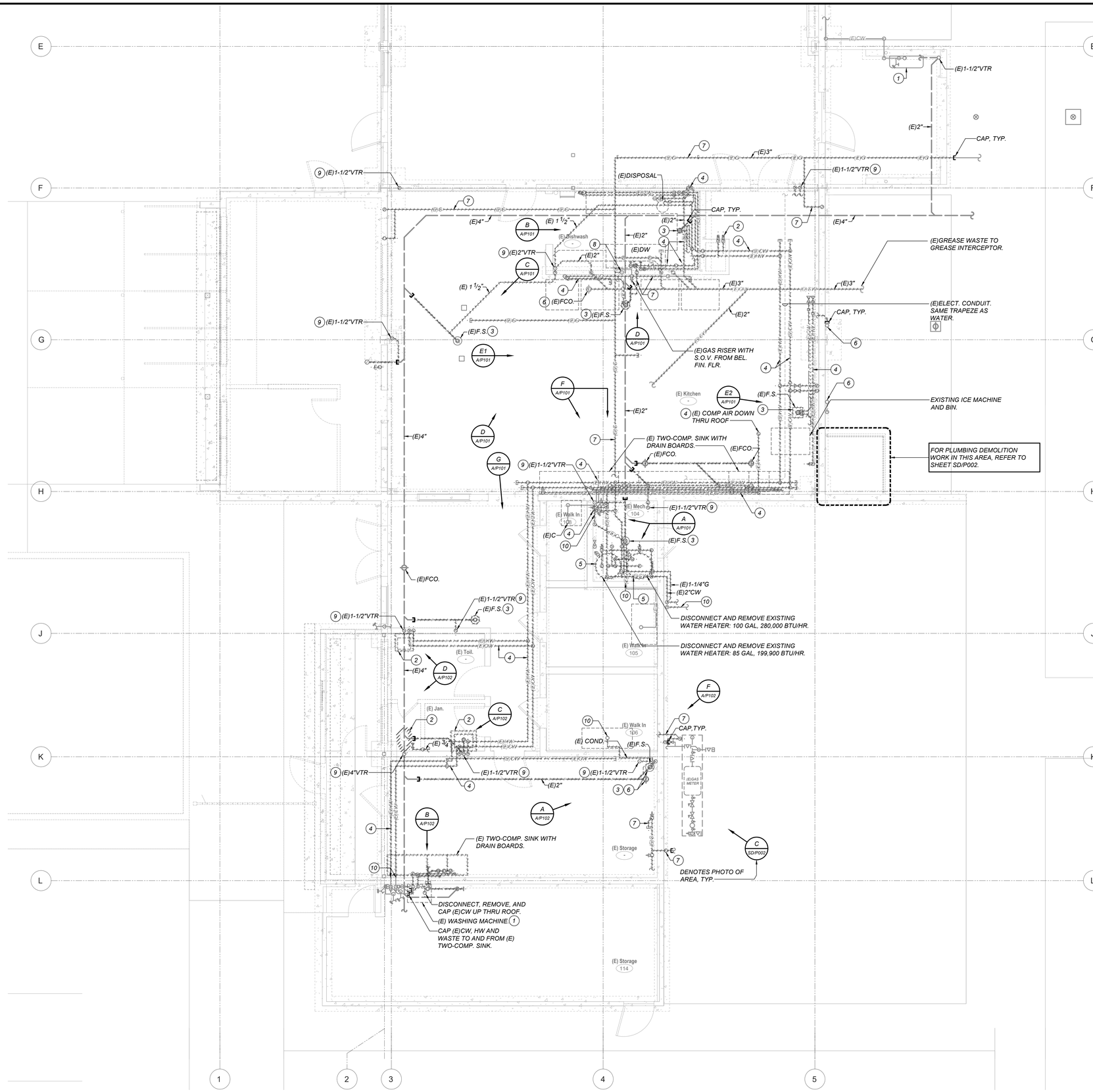
10/09/2020 OPM-0043-13: Reviewed for Code Compliance by Jeffrey Kikumoto 221 of 846

BRACING SYSTEM

SCALE: NONE

H X/P105


HANGER ROD DIAMETER = ⅝"
PIPING/CONDUIT TRANSVERSE SEISMIC SOLID BRACING SYSTEM 3"Ø PIPE/CONDUIT MAX
KIT OPTIONS S12T S1220T SH412T SH420T
REF. M PAGES FOR CONNECTION DETAILS
⅜"Ø ASTM A36 ATR, TYP
MASON IND. N.Y. UCC ROD STIFFENER CLAMP, TORQUE TO 10 FT-LB



PLUMBING DEMOLITION KEYNOTES: (THIS SHEET ONLY)

1. *EXISTING PLUMBING FIXTURE AND ASSOCIATED PIPING TO REMAIN.*
2. *DISCONNECT AND REMOVE EXISTING PLUMBING FIXTURE AND/OR PIPING TO EQUIPMENT. REMOVE STOPS, SUPPLIES, TRIM, AND FIXTURE SUPPORT CARRIER ASSEMBLY (AS REQ'D). REMOVE PIPING IN WALL, ABOVE CEILING, BELOW FLOOR TO NEAREST MAIN AND CAP. REFER TO ARCHITECTURAL PLANS FOR EQUIPMENT REMOVAL.*
3. *DISCONNECT AND REMOVE EXISTING FLOOR DRAIN, FLOOR SINK, AND/OR FLOOR CLEANOUT. SAWCUT, REMOVE, AND PATCH BACK FLOOR AS REQUIRED.*
4. *DISCONNECT AND REMOVE EXISTING PIPING, IN WALL, ABOVE CEILING, BELOW FLOOR OR EXPOSED ON WALL. DEAD-END WATER PIPING, RISERS WITH NO FLOW, BRANCHES WITH NO FIXTURE ARE NOT PERMITTED AND SHALL BE REMOVED TO ACTIVE BRANCH MAIN. NO CAPPED WATER TEES ARE ALLOWED TO REMAIN IN PIPING. CAP (E) VENT PIPING ABOVE CEILING AND WASTE PIPING BELOW FLOOR WHERE INDICATED. REFER TO SHEET A/P201 AND A/P201U FOR NEW WORK AND POINTS OF CONNECTION.*
5. *DISCONNECT AND REMOVE EXISTING WATER HEATER AND ASSOCIATED PIPING. REMOVE EXISTING 6" AND 10" GAS VENT/FLUE THROUGH ROOF AS REQUIRED AND PATCH BACK. PROVIDE NEW PLUMBING EQUIPMENT ROUGH FOR NEW WATER HEATER PLACEMENT PER SHEET A/P201 AND A/P201U.*
6. *FIELD VERIFY (E) PIPING, TERMINATION, AND/OR FIXTURE.*
7. *DISCONNECT, REMOVE AND CAP EXISTING GAS PIPING. EXISTING GAS PIPING BELOW FIN. FLOOR NOT VERIFIED. EXISTING LAYOUT INDICATES SEVERAL LATERALS NO LONGER IN USE, BUT NOT KNOWN IF GAS LINE IS STILL ACTIVE. RELOCATED / REROUTED, ABANDONED IN PLACE, AND/OR CAPPED. CONFIRM WITH DISTRICT FOR (E) EQUIPMENT TO REMAIN ACTIVE AND IN SERVICE, PRIOR TO DEMOLITION.*
8. *EXISTING GAS TO H/C UNITS ABOVE. REFER TO SHEET A/P201 FOR POINT OF CONNECTION.*
9. *DISCONNECT AND REMOVE (E) VENT THRU ROOF. PATCH BACK ROOF.*
10. *REFER TO SHEET A/P201 AND/OR A/P201U FOR POINT OF CONNECTION.*

NOTES:

1. AS RECORD DRAWING & AS-BUILT AVAILABILITY ARE LIMITED, PROJECT REQUIRES FIELD INVESTIGATION TO VERIFY, LOCATE AND IDENTIFY SYSTEMS AND SIZES PRIMARILY BELOW FINISH FLOOR FOR ALL POINTS OF CONNECTION (EXAMPLE: GREASE WASTE, SANITARY SEWER). ADDITIONAL SAWCUTTING, REMOVAL AND PATCHING BACK MAY BE REQUIRED. PROCEED WITH CAUTION FOR POTENTIAL ACTIVE GAS LINES LOCATED BELOW FINISH FLOOR. COORDINATE ALL SHUT-DOWNS WITH MAINTENANCE AND DISTRICT STAFF TO MINIMIZE INTERRUPTION OF SERVICES.

2. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL REMOVAL AND DEMOLITION OF KITCHEN EQUIPMENT, CASEWORK, CABINETRY AND INTEGRAL SINKS. COORDINATE WITH DISTRICT FOR DISPOSAL, RE-USE, AND/OR FUTURE STORAGE.

3. EXISTING PIPE ROUTING AND SIZES ARE DIAGRAMMATIC PER RECORD DRAWINGS AND MAY VARY. VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING DEMOLITION AND POINTS OF CONNECTION FOR NEW WORK.

/ ### DENOTES PHOTO OF AREA, TYP.

NOTE:
PICTURES SUPPLEMENT PLUMBING PLAN AND ARE FOR ILLUSTRATIVE PURPOSES. PICTURES DO NOT INDICATE ALL DEMOLITION OR EXISTING PIPING , FIXTURES, OR PLUMBING EQUIPMENT FOR THIS PROJECT. REFER TO SHEETS SD/P002 AND A/P100 FOR ADDITIONAL PLUMBING WORK.

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(559) 431-0101 21188 FAX (559) 431-1343

Consultant

THOMAS JEFFERSON MIDDLE SCHOOL KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
Madera, CA

Project

BUILDING C
PLUMBING DEMOLITION PLAN

Drawing

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Architect

No.	Revision/Submission	Date

Revision

Designed By: D.M. Copyright 2023 Darden Architects

Scale:	As Noted	Drawn By:	LEG
Project Number:	2123	Checked By:	D.M.
Date:	03/31/2023	Reviewed By:	R.C.

C/P100

A1
1/4"=1'-0"

Plumbing Demolition Plan

26 January 2023 2:13 PM p:\2021\21188 madera usd thomas jefferson ms kitchen remodel\4-drawings\5 PLAN100-AP102 - PLUMBING DEMOLITION PLAN.dwg anthony a



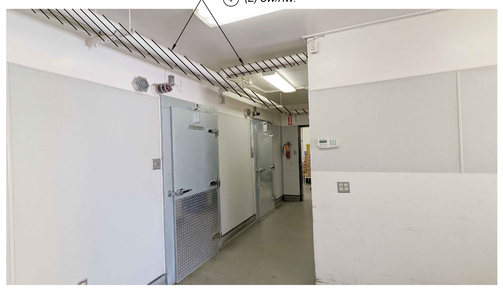


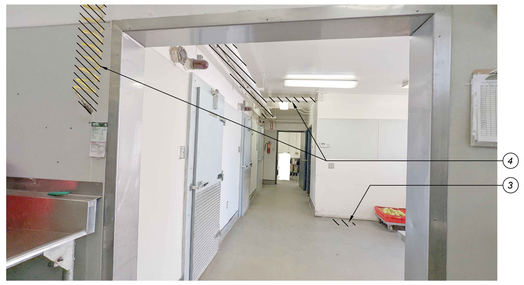


EXISTING KITCHEN - SOUTH WALL

SCALE: NONE

F A/P101



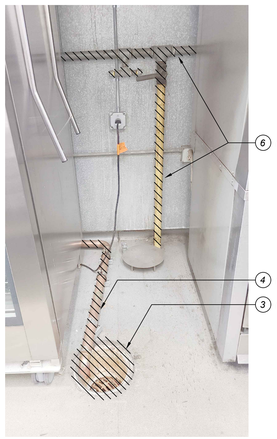


EXISTING HALLWAY - SOUTH

SCALE: NONE

G A/P101





EXISTING KITCHEN - NORTH WALL

SCALE: NONE

D A/P101



E1

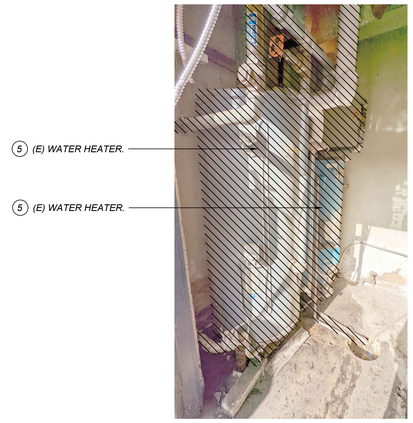


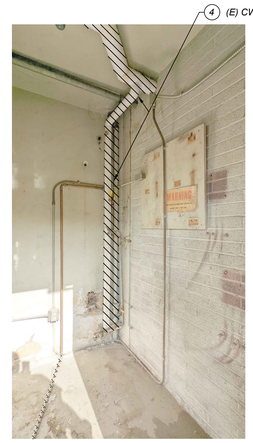
E2

EXISTING KITCHEN - EAST WALL

SCALE: NONE

E A/P101





EXISTING WATER HEATER ROOM

SCALE: NONE

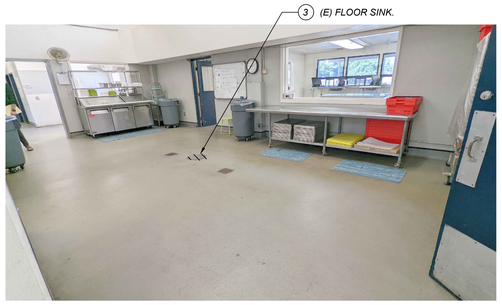
A A/P101



EXISTING DISHWASHER ROOM

SCALE: NONE

B A/P101



EXISTING KITCHEN - SOUTH / WEST WALL

SCALE: NONE

C A/P101

DSA File No.: *20-30*

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General Notes

LAWRENCE ENGINEERING GROUP
4910 E. Clinton Way, Suite 101 Fresno, CA 93727
(559) 431-0101 21188 FAX (559) 431-1362

REGISTERED PROFESSIONAL ENGINEER JONATHAN W. EARLY No. M34846 Exp. 6-30-24 MECHANICAL STATE OF CALIFORNIA

Consultant

THOMAS JEFFERSON MIDDLE SCHOOL KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
Madera, CA

Project

BUILDING C

PLUMBING DEMOLITION REFERENCE PHOTOS

Drawing

darden architects
ARCHITECTURE PLANNING INTERIORS
www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

LICENSED ARCHITECT ANTONIO J. AVILA No. C-29230 REG. 10-31-24 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: D.M.	Copyright 2023 Darden Architects
Scale: As Noted	Drawn By: LEG	C/P101
Project Number: 2123	Checked By: D.M.	
Date: 03/31/2023	Reviewed By: R.C.	

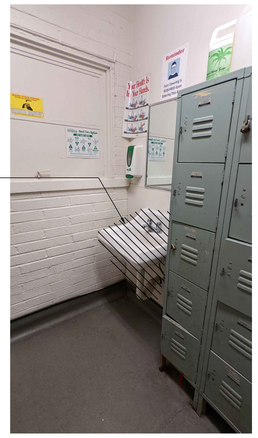
26 January 2023 2:13 PM p:\2021\21188 madera usd thomas jefferson ms kitchen remodel\4-drawings\5 PLAN\100-AP102 – PLUMBING DEMOLITION PLAN.dwg anthony o



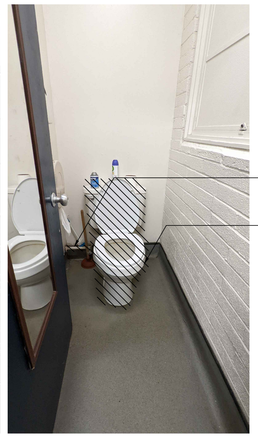
6 (E) GAS.

EXISTING GAS METER — F — A/P102

SCALE: NONE



2 (E) LAVATORY.

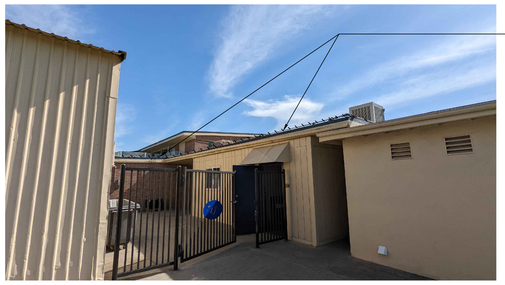


4 (E)CW.

2 (E)WATER CLOSET.

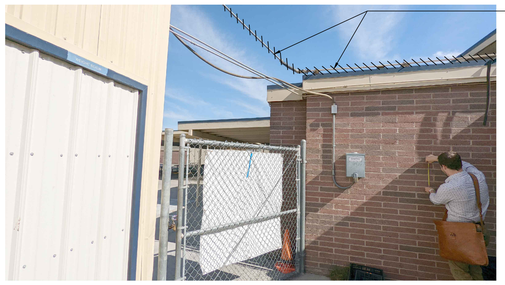
EXISTING TOILET ROOM — D — A/P102

SCALE: NONE



4 (E)CW.

E(1)



4 (E)CW.

E(2)



4 (E)CW.

EXISTING CW TO STORAGE BLDG — E — A/P102

SCALE: NONE



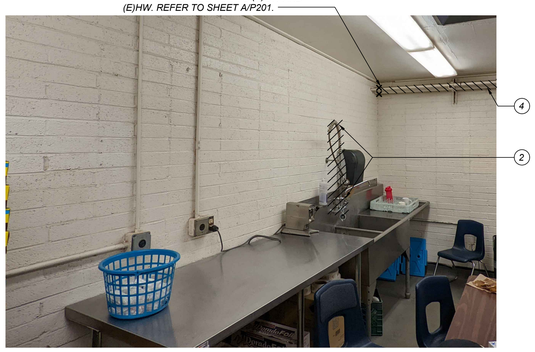
4 (E)CW.

7 4 (E)VENT AND CONDENSATE.

EXISTING STORAGE - NORTH/EAST WALL — A — A/P102

SCALE: NONE

POINT OF CONNECTION TO (E)CW AND (E)HW. REFER TO SHEET A/P201.



4

2



2 4 (E)CW/HW, WASTE.

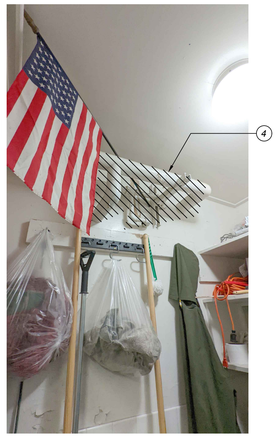
EXISTING STORAGE - SOUTH WALL — B — A/P102

SCALE: NONE



4 (E)CW/HW.

4 2 (E)MOP SINK.



4

EXISTING JANITOR ROOM — C — A/P102

SCALE: NONE

DSA File No.: 20-30

DSA Application No.: 02-120517

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120517 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

Agency Approval

PLUMBING DEMOLITION KEYNOTES: (THIS SHEET ONLY)

1. EXISTING PLUMBING FIXTURE AND ASSOCIATED PIPING TO REMAIN.
2. DISCONNECT AND REMOVE EXISTING PLUMBING FIXTURE AND/OR PIPING TO EQUIPMENT. REMOVE STOPS, SUPPLIES, TRIM, AND FIXTURE SUPPORT CARRIER ASSEMBLY (AS REQ'D). REMOVE PIPING IN WALL, ABOVE CEILING, BELOW FLOOR TO NEAREST MAIN AND CAP. REFER TO ARCHITECTURAL PLANS FOR EQUIPMENT REMOVAL.
3. DISCONNECT AND REMOVE EXISTING FLOOR DRAIN, FLOOR SINK, AND/OR FLOOR CLEANOUT. SAWCUT, REMOVE, AND PATCH BACK FLOOR AS REQUIRED.
4. DISCONNECT AND REMOVE EXISTING PIPING, IN WALL, ABOVE CEILING, BELOW FLOOR OR EXPOSED ON WALL. DEAD-END WATER PIPING, RISERS WITH NO FLOW, BRANCHES WITH NO FIXTURE ARE NOT PERMITTED AND SHALL BE REMOVED TO ACTIVE BRANCH MAIN. NO CAPPED WATER TEES ARE ALLOWED TO REMAIN IN PIPING. CAP (E) VENT PIPING ABOVE CEILING AND WASTE PIPING BELOW FLOOR WHERE INDICATED. REFER TO SHEET A/P201 AND A/P201U FOR NEW WORK AND POINTS OF CONNECTION.
5. DISCONNECT AND REMOVE EXISTING WATER HEATER AND ASSOCIATED PIPING. REMOVE EXISTING 6" AND 10" GAS VENT/FLUE THROUGH ROOF AS REQUIRED. PROVIDE NEW PLUMBING EQUIPMENT ROUGH FOR NEW WATER HEATER PLACEMENT PER SHEET A/P201 AND A/P201U.
6. DISCONNECT, REMOVE AND CAP EXISTING GAS PIPING. EXISTING GAS PIPING BELOW FIN. FLOOR NOT VERIFIED. EXISTING LAYOUT INDICATES SEVERAL LATERALS NO LONGER IN USE, BUT NOT KNOWN IF GAS LINE IS STILL ACTIVE, RELOCATED / REROUTED, ABANDONED IN PLACE, AND/OR CAPPED. CONFIRM WITH DISTRICT FOR (E) EQUIPMENT TO REMAIN ACTIVE AND IN SERVICE, PRIOR TO DEMOLITION.
7. DISCONNECT AND REMOVE (E) CONDENSATE PIPING, AND (E) VENT THRU ROOF. PATCH BACK ROOF.

NOTES:
PICTURES SUPPLEMENT PLUMBING DEMOLITION PLAN AND ARE FOR ILLUSTRATIVE PURPOSES. PICTURES DO NOT INDICATE ALL DEMOLITION OR EXISTING PIPING, FIXTURES, OR PLUMBING EQUIPMENT FOR THIS PROJECT. REFER TO SHEETS SD/P002 AND A/P100 FOR ADDITIONAL PLUMBING DEMOLITION.

General Notes

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4910 E. Clinton Way, Suite 101 (559) 431-0101 21188 Fresno, CA 93727 FAX (559) 431-1342
REGISTERED PROFESSIONAL ENGINEER KEVIN W. EARLEY No. M34846 Exp. 6-30-24 MECHANICAL STATE OF CALIFORNIA
Consultant

THOMAS JEFFERSON MIDDLE SCHOOL KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
Madera, CA
Project

BUILDING C
PLUMBING DEMOLITION REFERENCE PHOTOS
Drawing

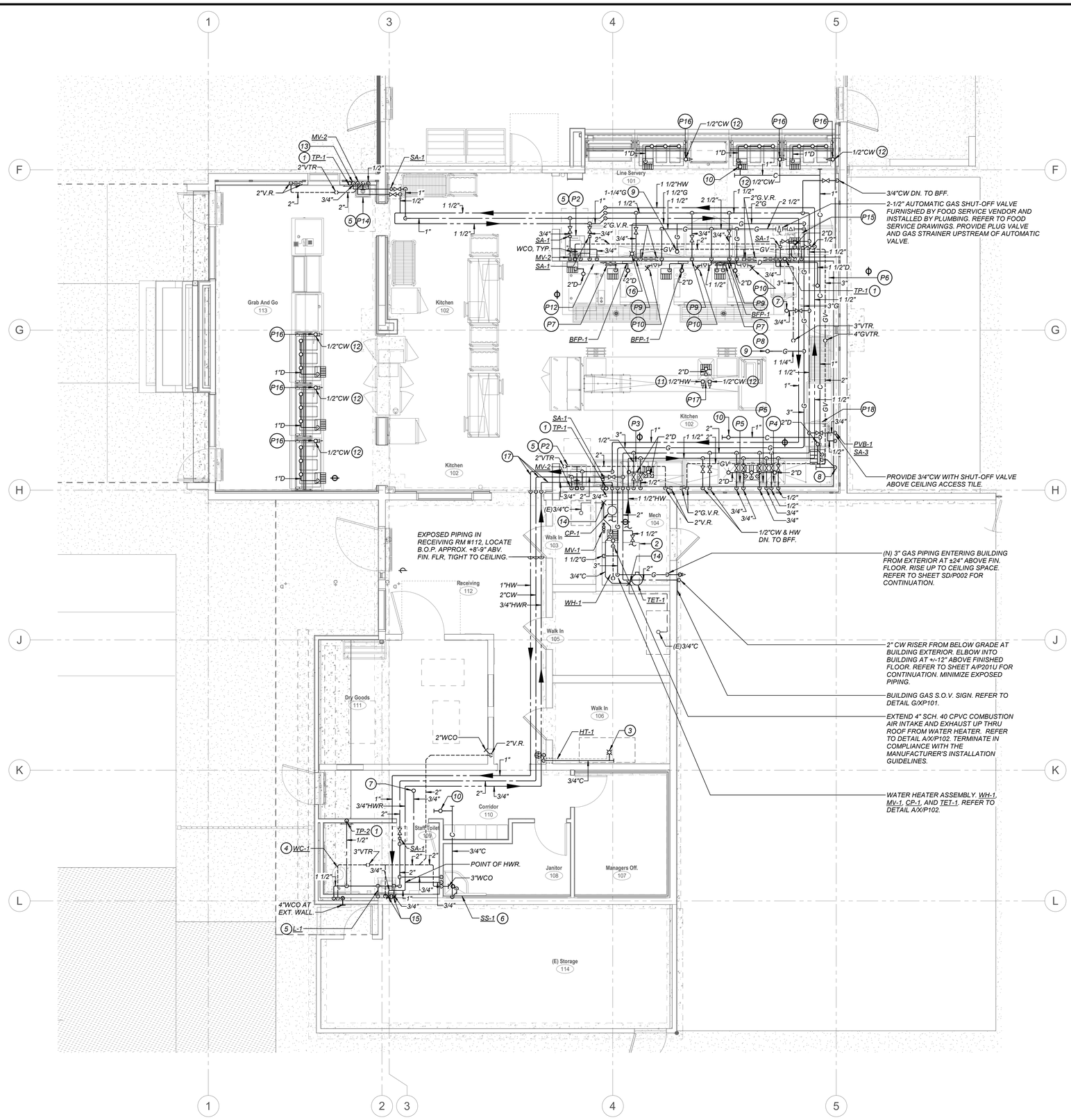
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LICENSED ARCHITECT ANTONIO J. AVILA No. C26230 Exp. 10-31-24 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

		Designed By: D.M.	Copyright 2023 Darden Architects
Scale:	As Noted	Drawn By: LEG	C/P102
Project Number:	2123	Checked By: D.M.	
Date:	03/31/2023	Reviewed By: R.C.	

26 January 2023 2:13 PM p:\2021\21188 madera usd thomas jefferson ms kitchen remodel\4-drawings\5 PLAN100-AP102 - PLUMBING DEMOLITION PLAN.dwg anthony o



PLUMBING KEYNOTES: (THIS SHEET ONLY)

1. 3/4"CW DOWN U.O.N IN WALL TO TRAP PRIMER LOCATED BEHIND ACCESS DOOR AT MINIMUM +12" ABOVE FINISH FLOOR. PROVIDE SOV FOR SERVICING ON THE INLET SIDE. ALLOW +1'-0" OF ELEVATION FOR EVERY 20'-0" OF DISTANCE RAN FOR 1/2"CW PRIMER MAKE-UP LINE. THE MAKE-UP LINE FROM THE TRAP PRIMER TO FIXTURE SHALL HAVE CONTINUOUS SLOPE.
2. WATER HEATER LOCATED ON HOUSEKEEPING PAD. REFER TO STRUCTURAL DRAWINGS.
3. CONNECT INSULATED CONDENSATE PIPING TO (E) EVAP. COIL. PROVIDE HEAT TRACING CABLE PER HT-1. SLOPE PIPING 1/4"/FT, MOUNTED ON WALL. PROVIDE COND. TRAP AT EXTERIOR OF WALK-IN COOLER AND DISCHARGE TO FLOOR SINK WITH FULL AIR GAP. REFER TO DETAIL D/X/P101 AND F/X/P101.
4. 1-1/2"CW, 4"S DN., 2"V.R. TO AND FROM FLUSH VALVE WATER CLOSET.
5. 1/2"CW, 1/2"HW, 2"W, 2"V.R. TO AND FROM LAVATORY OR HAND WASH SINK. TYP.
6. 3/4"CW, 3/4"HW, 3"W DN. PROVIDE WCO, 2"V.R. TO AND FROM SERVICE SINK. OFFSET 3/4" CONDENSATE DOWN IN WALL. ELBOW OUT AND TURN DOWN AT +6" ABOVE RIM OF SERVICE SINK.
7. 3/4"CW UP THRU ROOF TO HB-2 @+6"ABV. FIN. ROOF. REFER TO DETAIL H/X/P101 FOR INSULATED PIPE PENETRATION THRU ROOF.
8. CONDENSATE DRAIN PIPING DOWN IN WALL, ELBOW OUT AND OFFSET FOR DISCHARGE TO FLOOR SINK PER DETAIL F/X/P101.
9. GAS PIPING UP TO ROOF MOUNTED HVAC UNIT FROM SPACE ABOVE CEILING. REFER TO MECHANICAL DRAWINGS FOR CONNECTION LOCATION. REFER TO PLUMBING ROOF PLAN A/P301 FOR CONT.
10. CONDENSATE PIPING DOWN FROM ROOF MOUNTED HVAC UNIT TO SPACE ABOVE CEILING. REFER TO MECHANICAL DRAWINGS. PROVIDE CLEANOUTS AT ALL CHANGE OF DIRECTIONS, TYPICAL. REFER TO PLUMBING ROOF PLAN A/P301 FOR CONT.
11. HW RISER WITH S.O.V. FROM BELOW FINISH FLOOR. CONNECT TO FOOD SERVICE EQUIPMENT.
12. CW RISER WITH S.O.V. FROM BELOW FINISH FLOOR. CONNECT TO FOOD SERVICE EQUIPMENT.
13. 3/4"CW DOWN IN WALL. BRANCH 3/4"CW TO TRAP PRIMER. EXTEND 3/4"CW DOWN BELOW FINISH FLOOR AND OFFSET TO FOOD SERVICE EQUIPMENT.
14. P.O.C 3/4"CONDENSATE TO EXISTING 3/4"COND. OFFSET TO FLOOR SINK AND DISCHARGE PER DETAIL F/X/P101.
15. P.O.C 3/4"CW AND 3/4"HW TO EXISTING CW AND HW PIPING IN WALL.
16. P.O.C 1-1/2"G TO (E) GAS RISER TO (E) H/C MECH UNIT. REFER TO M-SHEETS. VERIFY IF EQUIPMENT IS ACTIVE, AND NOTIFY MEOR.
17. CW, HW, & HWR PIPING CONCEALED WITHIN ARCHITECTURAL SOFFIT.

(P#) KEYNOTE WITH PREFIX "P" DENOTES FOOD SERVICE FURNISHED KITCHEN EQUIPMENT U.O.N. REFER TO "KITCHEN EQUIPMENT PLUMBING SCHEDULE", SHEET X/P103, FOR PLUMBING COMMENTS, ROUGH-IN AND/OR REQUIRED TRIM FOR SPECIFIC EQUIPMENT. REFER TO SPECIFICATION SECTION 11 40 00 AND KITCHEN LAYOUT "FS" PLANS FOR EXACT LOCATIONS, HEIGHTS OF ALL PLUMBING CONNECTIONS TO EQUIPMENT AND FOR ADDITIONAL KITCHEN EQUIPMENT PLUMBING REQUIREMENTS.

NOTES:

1. AS RECORD DRAWING & AS-BUILT AVAILABILITY ARE LIMITED, PROJECT REQUIRES FIELD INVESTIGATION TO VERIFY, LOCATE AND IDENTIFY SYSTEMS AND SIZES PRIMARILY BELOW FINISH FLOOR FOR ALL POINTS OF CONNECTION (EXAMPLE: GREASE WASTE, SANITARY SEWER). ADDITIONAL SAWCUTTING, REMOVAL AND PATCHING BACK MAY BE REQUIRED. PROCEED WITH CAUTION FOR POTENTIAL ACTIVE GAS LINES LOCATED BELOW FINISH FLOOR. COORDINATE ALL SHUT-DOWNS WITH MAINTENANCE AND DISTRICT STAFF TO MINIMIZE INTERRUPTION OF SERVICES.
2. PROVIDE ACCESS PANELS OR ACCESS DOORS WHERE THERE IS NO ACCESS ABOVE CEILING OR IN-WALL FOR PLUMBING ACCESSORIES SUCH AS WATER HAMMER ARRESTORS AND VALVES. TYPICAL.
3. FOR PIPING SUPPORTS AND SPACING REFER TO:
   i. PLUMBING DETAIL SHEETS X/P104 & X/P105.
   ii. SPECIFICATION 22 00 00, PART 2.1, E.1 "PRODUCTS - PIPING MATERIALS -MISCELLANEOUS PIPING ITEMS - PIPE SUPPORT" AND SECTION 22 00 00, PART 3.1, "EXECUTION - PIPING INSTALLATION."
4. FOR SEISMIC PIPE BRACING REFER TO:
   i. SHEET SD/P001 GENERAL PLUMBING NOTES, #5 & #6, AND ADDITIONAL SEISMIC BRACING REQUIREMENTS.
   ii. PLUMBING DETAIL SHEETS X/P104 & X/P105.
   iii. GENERAL MECHANICAL PROVISIONS SPECIFICATION SECTION 23 00 00, 1.21A & B.

DSA File No.: *20-30*

DSA Application No.: *02-120517*

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120517 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

Agency Approval

General Notes

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Consultant

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MADERA UNIFIED SCHOOL DISTRICT
Madera, CA

Project

BUILDING C
PLUMBING FLOOR PLAN

Drawing

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LICENSED ARCHITECT — ANTONIO J. ANTONA — No. C26235 — Ren. 10-31-23 — STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: D.M.
Drawn By: LEG
Checked By: D.M.
Reviewed By:R.C.

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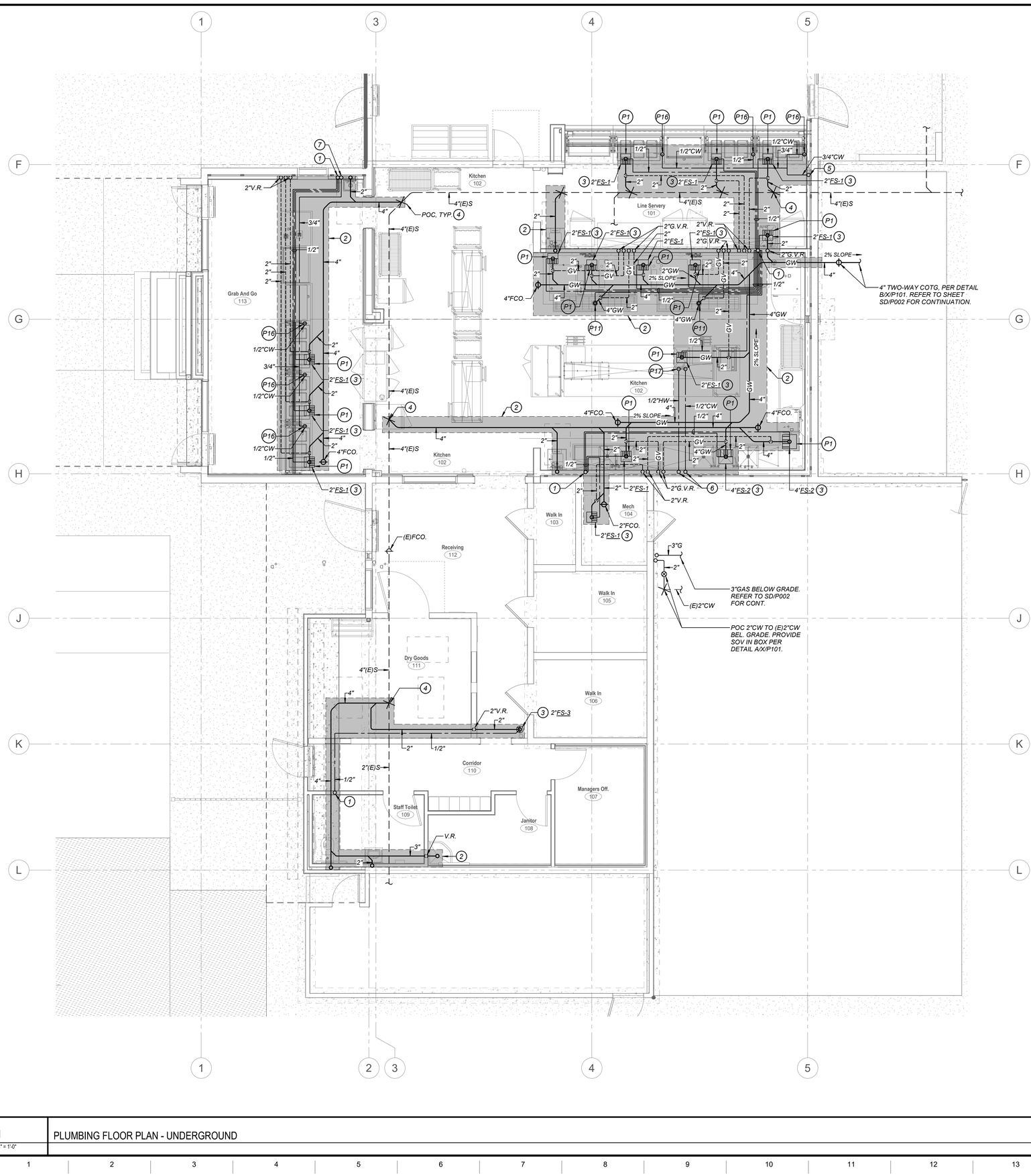
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Project Number: 2123
Date: 03/31/2023

C/P201

A1
1/4" = 1'-0"

PLUMBING FLOOR PLAN

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PLUMBING KEYNOTES: (THIS SHEET ONLY)

1. *1/2"CW DOWN FROM TRAP PRIMER BEHIND ACCESS PANEL TO BELOW FINISH FLOOR. 1/2"CW MAKE-UP LINE FROM THE TRAP PRIMER TO FIXTURE SHALL HAVE CONTINUOUS SLOPE.*
2. *DASHED LINE DENOTES TO SAWCUT, REMOVE AND PATCH BACK FLOOR AS REQUIRED. TYPICAL.*
3. *WASTE, 2"VENT AND 1/2"CW TRAP PRIMER TO AND FROM FLOOR SINK OR FLOOR DRAIN. REFER TO PLAN FOR OUTLET SIZE. TYPICAL.*
4. *POINT OF CONNECTION TO EXISTING SOIL PIPING BELOW FINISH FLOOR.*
5. *CW DOWN IN WALL TO BELOW FINISH FLOOR.*
6. *HW AND CW DOWN IN WALL TO BELOW FINISH FLOOR.*
7. *3/4"CW DOWN IN WALL TO BELOW FINISH FLOOR. OFFSET TO FOOD SERVICE EQUIPMENT.*

(P#) KEYNOTE WITH PREFIX "P" DENOTES FOOD SERVICE FURNISHED KITCHEN EQUIPMENT, U.O.N. REFER TO "KITCHEN EQUIPMENT PLUMBING SCHEDULE", SHEET X/P103, FOR PLUMBING COMMENTS, ROUGH-IN AND/OR REQUIRED TRIM FOR SPECIFIC EQUIPMENT. REFER TO SPECIFICATION SECTION 11 40 00 AND KITCHEN LAYOUT "FS" PLANS FOR EXACT LOCATIONS, HEIGHTS OF ALL PLUMBING CONNECTIONS TO EQUIPMENT AND ADDITIONAL KITCHEN EQUIPMENT PLUMBING REQUIREMENTS.

NOTES:

1. *AS RECORD DRAWING & AS-BUILT AVAILABILITY ARE LIMITED. PROJECT REQUIRES FIELD INVESTIGATION TO VERIFY, LOCATE AND IDENTIFY SYSTEMS AND SIZES PRIMARILY BELOW FINISH FLOOR FOR ALL POINTS OF CONNECTION (EXAMPLE: GREASE WASTE, SANITARY SEWER). ADDITIONAL SAWCUTTING, REMOVAL AND PATCHING BACK MAY BE REQUIRED. PROCEED WITH CAUTION FOR POTENTIAL ACTIVE GAS LINES LOCATED BELOW FINISH FLOOR. COORDINATE ALL SHUT-DOWNS WITH MAINTENANCE AND DISTRICT STAFF TO MINIMIZE INTERRUPTION OF SERVICES.*

DSA File No.: *20-30*

DSA Application No.: *02-120517*

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DIV. OF THE STATE ARCHITECT
APP: 02-120517 INC:
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DATE: 04/25/2023

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Madera, CA

Project

BUILDING C
PLUMBING FLOOR PLAN - UNDERGROUND

Drawing

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LICENSED ARCHITECT — ANTONIO J. AVILA — No. C26235 — REG. 10-31-2024 — STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: D.M.
Drawn By: LEG
Checked By: D.M.
Reviewed By:R.C.

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Scale: 1/4" = 1'-0"
Project Number: 2123
Date: 03/31/2023

C/P201U

A1
1/4" = 1'-0"

PLUMBING FLOOR PLAN - UNDERGROUND

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PLUMBING KEYNOTES: (THIS SHEET ONLY)

1. *3/4"CW UP THRU ROOF TO HOSE BIB, HB-2 AT +12" ABV. FIN. ROOF. REFER TO DETAIL H/X/P101, TYP.*
2. *EXTEND 4" SCH. 40 CPVC COMBUSTION AIR INTAKE AND EXHAUST UP THRU ROOF. TERMINATE IN COMPLIANCE WITH THE MANUFACTURER'S INSTALLATION GUIDELINES. IT IS ACCEPTABLE TO USE A COMBINED SCHEDULE 40 CPVC CONCENTRIC THRU THE ROOF KIT. REFER TO DETAIL A/X/P102.*
3. *GAS PIPING UP FROM SPACE BELOW ROOF, IMMEDIATELY ADJACENT TO ROOF MOUNTED MECHANICAL UNIT. REFER TO SHEET A/P201 FOR CONTINUATION. REFER TO MECHANICAL DRAWINGS FOR CONNECTION LOCATION. PROVIDE PLUG VALVE, DIRT LEG, FLEXIBLE GAS COUPLING AND CONNECT TO UNIT. REFER TO DETAIL E/X/P101 FOR DIRT LEG. TYPICAL.*
4. *CONNECT CONDENSATE DRAIN PIPING TO ROOF MOUNTED MECH. UNIT. REFER TO MECHANICAL DRAWINGS FOR CONNECTION LOCATION. DROP DOWN THRU ROOF. REFER TO SHEET A/P201 FOR CONTINUATION. REFER TO DETAIL D/X/P101 FOR CONDENSATE DRAIN CONNECTION. TYPICAL.*
5. *VENT THRU ROOF. MAINTAIN MINIMUM 10'-0" CLEARANCE FROM OUTSIDE AIR INTAKE. +1'-0" FROM VERTICAL SURFACES. TYPICAL ALL VENT RISERS.*

DSA File No.:
20-30

DSA Application No.:
02-120517

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DATE: 04/25/2023

Agency Approval

General Notes

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M34846
Exp. 6-30-24
MECHANICAL
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Consultant

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Madera, CA

Project

BUILDING C
PLUMBING ROOF PLAN

Drawing

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LICENSED ARCHITECT
ANTONIO J. AVILA
No. C26235
Ren. 10-31-24
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

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Designed By: D.M.
Drawn By: LEG
Checked By: D.M.
Reviewed By:R.C.

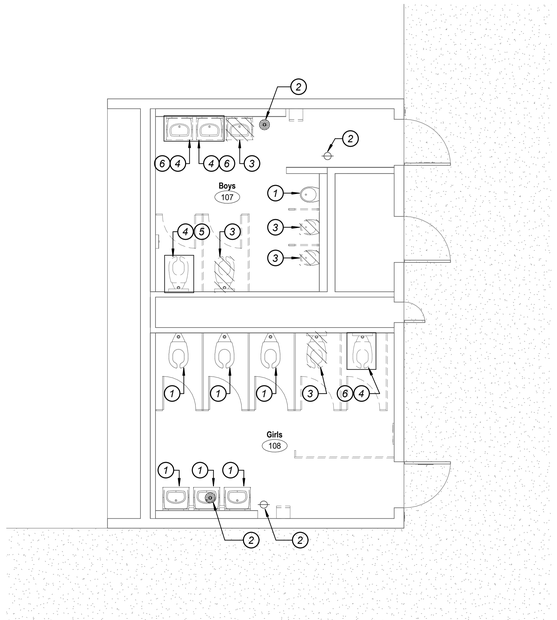
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Project Number: 2123
Date: 03/31/2023

C/P301

A1
1/4" = 1'-0"

PLUMBING ROOF PLAN

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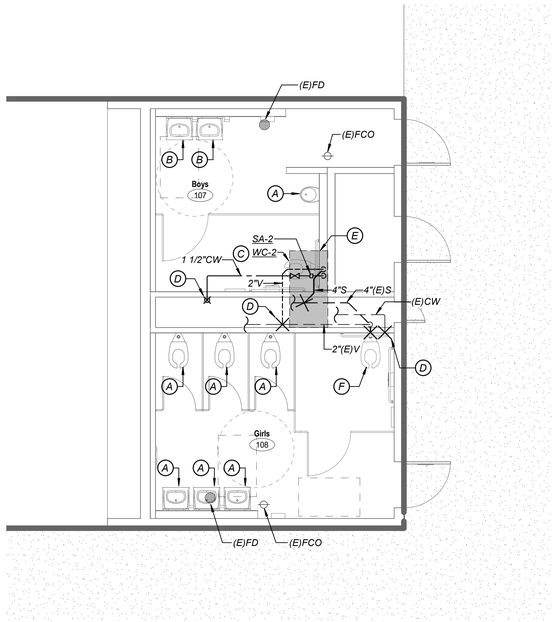
PLUMBING DEMOLITION KEYNOTES: (THIS DETAIL ONLY)

1. *EXISTING PLUMBING FIXTURE TO REMAIN AS-IS.*
2. *EXISTING FLOOR DRAIN OR CLEANOUT TO REMAIN AS-IS.*
3. *DISCONNECT AND REMOVE EXISTING PLUMBING FIXTURE AND TRIM. REMOVE PIPING IN WALL, ABOVE CEILING, BELOW FLOOR TO NEAREST MAIN AND CAP BEHIND FINISHED SURFACES.*
4. *DISCONNECT AND REMOVE EXISTING PLUMBING FIXTURE. PROTECT AND PREPARE FOR REINSTALLATION PER A10/D/P101 AND ARCHITECTURAL SHEET D/A101.*
5. *REMOVE PIPING IN WALL, ABOVE CEILING, BELOW FLOOR TO NEAREST MAIN AND CAP BEHIND FINISHED SURFACES.*
6. *MODIFY AND PREPARE EXISTING PLUMBING ROUGH AS NECESSARY FOR REINSTALLATION.*

N

J10 — 1/4" = 1'-0"

BUILDING D - ENLARGED PLUMBING DEMOLITION PLAN



PLUMBING KEYNOTES: (THIS SHEET ONLY)

- A. *EXISTING PLUMBING FIXTURE TO REMAIN AS-IS.*
- B. *REINSTALL EXISTING LAVATORY, METERED FAUCET, AND GRID DRAIN. PROVIDE NEW P-TRAP, ANGLE STOP, AND SUPPLY/RISER TUBE AS NECESSARY. PROVIDE BACKING PER DETAIL C/XP101 AS NECESSARY. AND OFFSET 1/2"CW, 2"WASTE AND 1-1/2"VENT TO NEW LOCATION AND RECONNECT. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT FIXTURE LOCATION AND MOUNTING HEIGHT.*
- C. *REINSTALL EXISTING WATER CLOSET, FLUSH VALVE, AND SEAT. FLUSH VALVE CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET STALL. INSTALL NEW SUPPORT CARRIER AND OFFSET 1-1/2" CW, 4"SOIL AND 2"VENT TO NEW LOCATION AND CONNECT. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT FIXTURE LOCATION AND MOUNTING HEIGHT.*
- D. *APPROX. POINT OF CONNECTION, TYP.*
- E. *SAWCUT, REMOVE, AND PATCH BACK CONCRETE FLOOR AS NECESSARY.*
- F. *REINSTALL EXISTING WATER CLOSET, FLUSH VALVE, AND SEAT. FLUSH VALVE CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET STALL. MODIFY EXISTING SUPPORT CARRIER FOR CBC ACCESS COMPLIANCE. PROVIDE NEW SUPPORT CARRIER AS NECESSARY. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT FIXTURE LOCATION AND MOUNTING HEIGHT. MODIFY EXISTING PLUMBING ROUGH AS NECESSARY FOR REINSTALLATION.*

N

A10 — 1/4" = 1'-0"

BUILDING D - ENLARGED PLUMBING PLAN

DSA File No.: *20-30*

DSA Application No.: *02-120517*

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APP: 02-120517 INC:
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DATE: 04/25/2023

Agency Approval

NOTES:

1. *AS RECORD DRAWING & AS-BUILT AVAILABILITY ARE LIMITED. PROJECT REQUIRES FIELD INVESTIGATION TO VERIFY, LOCATE AND IDENTIFY SYSTEMS AND SIZES PRIMARILY BELOW FINISH FLOOR FOR ALL POINTS OF CONNECTION (EXAMPLE: GREASE WASTE, SANITARY SEWER). ADDITIONAL SAWCUTTING, REMOVAL AND PATCHING BACK MAY BE REQUIRED. PROCEED WITH CAUTION FOR POTENTIAL ACTIVE GAS LINES LOCATED BELOW FINISH FLOOR. COORDINATE ALL SHUT-DOWNS WITH MAINTENANCE AND DISTRICT STAFF TO MINIMIZE INTERRUPTION OF SERVICES.*
2. *PROVIDE ACCESS PANELS OR ACCESS DOORS WHERE THERE IS NO ACCESS ABOVE CEILING OR IN-WALL FOR PLUMBING ACCESSORIES SUCH AS WATER HAMMER ARRESTORS AND VALVES. TYPICAL.*
3. *FOR PIPING SUPPORTS AND SPACING REFER TO:*
   i. PLUMBING DETAIL SHEETS X/P104 & X/P105.
   ii. SPECIFICATION 22 00 00, PART 2.1, E.1 "PRODUCTS - PIPING MATERIALS -MISCELLANEOUS PIPING ITEMS - PIPE SUPPORT" AND SECTION 22 00 00, PART 3.1, "EXECUTION - PIPING INSTALLATION."
4. *FOR SEISMIC PIPE BRACING REFER TO:*
   i. SHEET SD/P001 GENERAL PLUMBING NOTES, #5 & #6, AND ADDITIONAL SEISMIC BRACING REQUIREMENTS.
   ii. PLUMBING DETAIL SHEETS X/P104 & X/P105.
   iii. GENERAL MECHANICAL PROVISIONS SPECIFICATION SECTION 23 00 00, 1.21A & B.

General Notes

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Consultant

THOMAS JEFFERSON MIDDLE SCHOOL KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
Madera, CA

Project

BUILDING D
PLUMBING DEMOLITION AND FLOOR PLAN

Drawing

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LICENSED ARCHITECT — ANTONIO J. AVILA — No. C26235 — Exp. 10-31-25 — STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

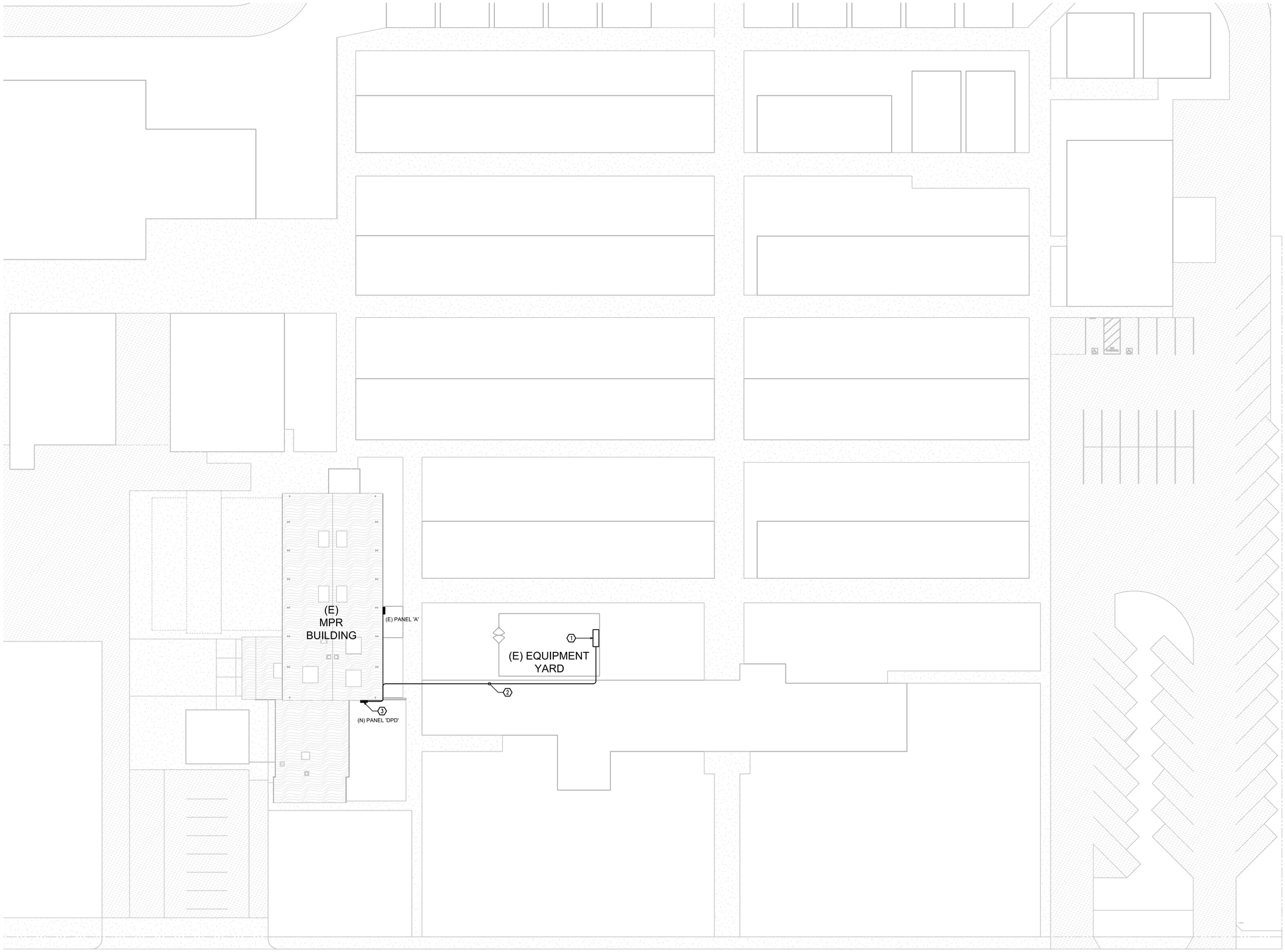
Designed By: D.M.
Drawn By: LEG
Checked By: D.M.
Reviewed By:R.C.

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Scale: 1/4" = 1'-0"
Project Number: 2123
Date: 03/31/2023

D/P101

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DSA File No.:
20-30

DSA Application No.:
02-120517

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120517 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

Agency Approval

KEYNOTES

1. EXISTING 1600A, 277/480V, 3Ø, NEMA 3R MAIN SWITCHBOARD TO REMAIN. PROVIDE (N) 200A/3P CIRCUIT BREAKER WITH ALL REQUIRED HARDWARE. DEAD FRONT, ETC. CIRCUIT BREAKER TO MATCH EXISTING SWITCHBOARD MANUFACTURER, TYPE AND AIC RATING.
2. 2"C. - 4#3/0 CU, 1#6 CU GRD.
3. PROVIDE 200A, 277/480V, 3Ø, 4W, NEMA 3R DISTRIBUTION PANELBOARD.

NOTE TO CONTRACTOR:

EXISTING AS-BUILT RECORD DRAWINGS ARE NOT COMPLETE. A BEST EFFORT HAS BEEN TAKEN TO DOCUMENT THE EXISTING CONDITIONS. NOT ALL CONDITIONS, EQUIPMENT, ETC. MAY BE SHOWN ON THE DRAWINGS. ANY ITEMS NOT SHOWN TO BE REMOVED SHALL BE RECONNECTED TO THE CLOSEST ELECTRICAL PANEL. PROVIDE ANY REQUIRED FEED THROUGH WIRING.

THE CONTRACTOR SHALL VISIT THE SITE AND MAKE THEMSELVES FAMILIAR WITH THE EXISTING CONDITIONS AND TAKE THOSE INTO ACCOUNT WHEN PROVIDING A BID FOR THE PERFORMANCE OF THE WORK SHOWN IN THE DRAWINGS.

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REGISTERED PROFESSIONAL ENGINEER C. SCOTT DAVIDSON E17850 ELECTRICAL STATE OF CALIFORNIA

Consultant

THOMAS JEFFERSON MIDDLE SCHOOL KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA

Project

SITE DEVELOPEMENT
SITE ELECTRICAL PLAN

Drawing

darden architects
ARCHITECTURE
PLANNING
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LICENSED ARCHITECT ANTONIO J. PINTO No. C26235 Ren. 10-31-2024 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

N

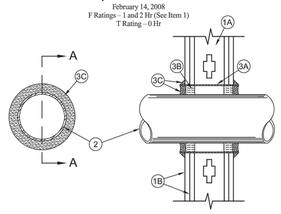
A1
1" = 20'-0"

Partial Site Electrical Plan

	Designed By: SD	Copyright 2023 Darden Architects
Scale: As indicated	Drawn By: EN	
Project Number: 2123	Checked By: SD	SD/E101
Date: 03/31/2023	Reviewed By: SD	

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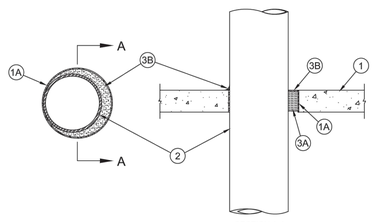
System No. W-L-1003
February 14, 2008
F Ratings – 1 and 2 Hr (See Item 1)
T Rating – 0 Hr



1. **Wall Assembly** – The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400 or V400 Series Wall and Partition Design 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 with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-1/2 in. (89 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.
   B. **Gypsum Board*** – Nom 5/8 in. (16 mm) thick, 4 ft (1.2 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400 or V400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 15 in. (381 mm).
   The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. **Through Penetrant** – One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The space between pipes, conduits or tubing and the steel sleeve (Item 3A) shall be min of 0 in. (point contact) to max 2-3/8 in. (60 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. **Steel Pipe** – Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. **Iron Pipe** – Nom 12 in. (305 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.
   C. **Conduit** – Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.
   D. **Copper Tubing** – Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. **Copper Pipe** – Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
3. **Firestop System** – Installed symmetrically on both sides of wall assembly. The details of the firestop system shall be as follows.
   A. **Steel Sleeve** – Cylindrical sleeve fabricated from min 0.019 in. thick (0.48 mm) galv sheet steel and having a min 2 in. (51 mm) lap along the longitudinal seam. Length of steel sleeve to be equal to thickness of wall plus 1 to 4 in. (25 to 102 mm) such that, when installed, the ends of the sleeve will project approx 1/2 to 2 in. (13 to 51 mm) beyond the surface of the wall on both sides of the wall assembly.
      Sleeve installed by coiling the sheet steel to a diam smaller than the through opening, inserting the coil through the openings and releasing the coil to let it uncoil against the circular cutouts in the gypsum board layers.
   B. **Packing Material** – Min 1 in. (25 mm) thickness of mineral wool batt insulation firmly packed into steel sleeve on both sides of the wall assembly as permanent forms. Packing material to be recessed min 1/2 in. (13 mm) from end of steel sleeve (flush with or recessed into gypsum board surface) on both sides of wall assembly.
   B1. **Packing Material** – (Not shown) – As an alternate to Item B, nom 1 in. (25 mm) thick polyethylene backer rod may be used. The backer rod is to be recessed within the steel sleeve a min of 1 in. (25 mm) from each surface of wall.
   C. **Fill,Void or Cavity Materials*** – **Caulk or Sealant** – When mineral wool batt insulation is used, caulk or sealant applied to fill the steel sleeve to a min depth of 1/2 in. (13 mm) on both sides of wall assembly. When backer rod is used, a min thickness of 1 in. (25 mm) of caulk or sealant is required flush with both sides of wall. A nom 1/4 in. (6 mm) diam continuous bead of caulk or sealant shall be applied around the circumference of the steel sleeve at its egress from the gypsum board layers on both sides of the wall assembly.
   3M COMPANY – CP 25WB+, IC 15WB+ or FB-3000 WT

*Bearing the UL Classification Mark

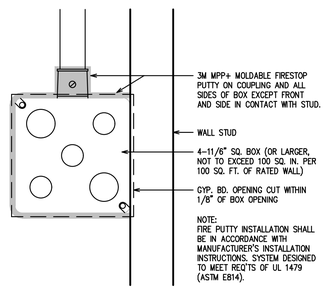
System No. C-AJ-1366
December 04, 2008
F Rating – 2 Hr
T Rating – 0 Hr
L Rating At Ambient – Less Than 1 CFM/sq ft
L Rating At 400 F – 2 CFM/sq ft



1. **Floor or Wall Assembly** – Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) concrete floor or min 3 in. (76 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) concrete wall. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 10 in. (254 mm).
   See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.
1A. **Steel Sleeve** (Optional) – Nom 10 in. (254 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe sleeve cast into concrete floor or wall. Sleeve to be flush with top and bottom surfaces of floor or both surfaces of wall.
2. **Through Penetrants** – One metallic pipe, tubing or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between tube and periphery of opening shall be min 0 in. to max 7/8 in. (22 mm). Penetrants to be rigidly supported on both sides of floor assembly. The following types and sizes of metallic pipes, tubing or conduit may be used:
   A. **Steel Pipe** – Nom 8 in. (203 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. **Iron Pipe** – Nom 8 in. (203 mm) diam (or smaller) cast or ductile iron pipe.
   C. **Conduit** – Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit.
   D. **Conduit** – Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.
   E. **Copper Tubing** – Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tube.
   F. **Copper Pipe** – Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
3. **Firestop System** – The details of the firestop system shall be as follows:
   A. **Packing Material** – Min 2 in. (51 mm) thickness of min 4 pcf (64 kg/m^3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or both surfaces of wall to accommodate the required thickness of fill material.
   B. **Fill,Void or Cavity Materials*** – **Caulk** – Min 1/2 in. (13 mm) thickness of caulk applied within the annulus, flush with top surface of floor or both surfaces of wall. Min 1/2 in. (13 mm) diam bead of caulk applied to the penetrant/concrete interface at the point contact location on the top surface of floor or both surfaces of wall.
   3M COMPANY – FireDam 150+

*Bearing the UL Classification Mark

E1	Conduit Penetration Fire Stop Detail
No Scale	



A1	Electrical Box Fire Stop Detail
No Scale	

ELECTRICAL GENERAL NOTES:

1. ALL WORK SHALL MEET THE LATEST ADOPTED ADDITIONS OF THE CALIFORNIA CODE OF REGULATIONS, TITLE 24 AND ALL OTHER APPLICABLE REGULATIONS, WHICH INCLUDE:

CALIFORNIA BUILDING CODE	2019
CALIFORNIA ELECTRICAL CODE	2019
NON RESIDENTIAL CEC ENERGY STANDARDS	2019

2. NOTHING IN THE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.
3. IT IS THE INTENTION OF THESE PLANS AND SPECIFICATIONS TO COVER EVERYTHING REQUIRED TO PROVIDE FOR COMPLETE AND OPERATIVE SYSTEMS. THE CONTRACTOR IS TO FURNISH LABOR, MATERIAL, TRANSPORTATION, EQUIPMENT, MISCELLANEOUS SERVICES, ETC. REQUIRED TO ACCOMPLISH THIS RESULT. ANYTHING WHICH MAY BE REASONABLY CONSTRUED AS A NECESSARY PART OF THE INSTALLATION IS TO BE INCLUDED, WHETHER OR NOT SPECIFICALLY SHOWN OR MENTIONED.
4. THE CONTRACTOR SHALL EXAMINE THE SITE AND EXISTING CONDITIONS AND MAKE ALLOWANCES IN THE BID FOR ANY CONDITIONS NOT SHOWN ON THE ELECTRICAL DOCUMENTS.
5. THE PLANS AND SPECIFICATIONS ARE INTENDED TO BE USED AS CONSTRUCTION GUIDELINES AND ARE NOT THE TOTAL INSTRUMENT OF CONTRACT DOCUMENTS. IT IS NOT THE INTENTION OF ANY CONSTRUCTION PLANS TO DIVIDE WORK AMONG DIFFERENT TRADES. VERIFY THE SCOPE OF WORK WITH THE ARCHITECT AND THE GENERAL CONTRACTOR.
6. ELECTRICAL ROUTING IS DIAGRAMMATIC ONLY. ACTUAL ROUTING & PHYSICAL CONDITIONS MAY VARY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL ROUTING, CONNECTIONS, & PROVISION OF ALL APPURTENANCES NECESSARY FOR A COMPLETE & OPERATING SYSTEM.
7. ELECTRICAL EQUIPMENT SHALL HAVE AN APPROVED TESTING LABORATORY LABEL ATTACHED (UL, CSA ETC.) PER CEC 110.2.
8. PROVIDE LABELING AND DIRECTORIES FOR ALL SWITCHBOARDS AND PANELBOARDS PER CEC 408.4.
9. ELECTRICAL EQUIPMENT SHALL HAVE A SHORT CIRCUIT CURRENT RATING CAPABLE OF WITHSTANDING THE AVAILABLE SHORT CIRCUIT CURRENT PER CEC 110.9.
10. PROVIDE MINIMUM 30" WIDE x 78" HIGH x 36" DEEP [42" DEEP] WORK CLEARANCES IN FRONT OF PANELS, SERVICE OR EQUIPMENT RATED AT 120/208V 3Ø 4W [277/480V 3Ø 4W] PER CEC 110.26.
11. ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUIT OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL BE MOUNTED BETWEEN 15" AFF AND 48" AFF AND SHALL COMPLY WITH CBC SECTION 11B-308. THE LOW REACH SHALL BE MEASURED TO THE BOTTOM OF THE OUTLET BOX AND THE HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX. IF THE REACH IS OBSTRUCTED (E.G. BY CASEWORK, COUNTERS, ETC.), RECEPTACLES SHALL BE LOCATED WITHIN THE REACH RANGES SPECIFIED IN CBC 11B-308.2.2 AND 11B-308.3.2.
12. CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF A ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES, OR COOLING, HEATING AND VENTILATING EQUIPMENT SHALL BE MOUNTED BETWEEN 15" AFF AND 48" AFF AND SHALL COMPLY WITH CBC SECTION 11B-308. THE LOW REACH SHALL BE MEASURED TO THE BOTTOM OF THE OUTLET BOX AND THE HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX. IF THE REACH IS OBSTRUCTED (E.G. BY CASEWORK, COUNTERS, ETC.), SWITCHES AND CONTROLS SHALL BE LOCATED WITHIN THE REACH RANGES SPECIFIED IN CBC 11B-308.2.2 AND 11B-308.3.2.
13. ALL WALL AND SURFACE MOUNTED FIXTURES PROTRUDING IN THE PATH OF TRAVEL (POT) OR COMMON PEDESTRIAN WAYS SHALL COMPLY WITH CBC 11B-307.2, OR SHALL BE MOUNTED LESS THAN 27" AFF OR GREATER THAN 80" AFF, OR SHALL BE PROVIDED WITH A BARRIER CONFORMING TO CBC 11B-307.4.
14. EMERGENCY EGRESS LIGHTING SHALL PROVIDE A MINIMUM LUMINANCE OF 1 FOOTCANDLE AT THE WALKING SURFACE FOR A MINIMUM OF 90 MINUTES.
15. FIRE ALARM EQUIPMENT SHALL BE SERVED BY DEDICATED FIRE ALARM BRANCH CIRCUITS PER NFPA 72 10.6.5.1.2. THE CIRCUIT NUMBER SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM EQUIPMENT PER NFPA 10.6.5.2.1. THE CIRCUIT BREAKER SHALL BE EQUIPPED WITH RED HANDLE AND LOCK-ON DEVICE, AND PERMANENTLY IDENTIFIED AS "FIRE ALARM CIRCUIT" PER NFPA 72 10.6.5.2.2, 10.6.5.2.3, 10.6.5.2.4, AND 10.6.5.4.
16. WIRING FOR 120/208V AND 277/480V SYSTEMS SHALL BE MIN. #12 AWG THHN/THWN-2 COPPER.
17. FEEDERS SIZE #4 AND LARGER SHALL BE MEGGER TESTED. TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER.
18. COLORS/FINISHES/MATERIALS FOR ALL ELECTRICAL DEVICES, PLATES, LIGHT FIXTURES, ETC. SHALL BE CHOSEN BY THE ARCHITECT.
19. PROVIDE PERMANENT LOCK-OPEN DEVICES ON CIRCUIT BREAKERS SERVING ELECTRIC WATER HEATERS TO MEET THE REQUIREMENTS OF CEC 422.31.
20. CONTRACTOR SHALL EXTEND ALL SIGNAL AND FIRE ALARM SYSTEMS AS REQUIRED. MODIFY HEAD-IN EQUIPMENT TO ACCOMMODATE NEW DEVICES AS REQUIRED. VERIFY THE CONDITION AND EXPANDABILITY OF ALL HEAD-IN EQUIPMENT PRIOR TO BID AND MODIFY ACCORDINGLY.
21. CALL USA UNDERGROUND ALERT AND VERIFY WITH DISTRICT THE DESIRED ROUTING AND LOCATIONS OF UNDERGROUND CONDUITS AND STRUCTURES PRIOR TO TRENCHING.
22. EXISTING EQUIPMENT TO BE REMOVED AND/OR REPLACED SHALL BE DELIVERED TO THE DISTRICT MAINTENANCE DEPARTMENT OR DISPOSED OF, AT THE DISCRETION OF THE DISTRICT.
23. INSTALL GALVANIZED RIGID STEEL RISERS & ELBOWS WHERE CONDUITS RISE FROM UNDERGROUND UP THROUGH GRADE. WRAP GALVANIZED RIGID STEEL BELOW GRADE. PVC SHALL NOT BE INSTALLED ABOVE GRADE.
24. CONDUIT INSTALLED ABOVE GRADE SHALL BE MIN. 3/4" TRADE SIZE. CONDUIT BELOW GRADE SHALL BE MIN. 1" TRADE SIZE.
25. PROVIDE (4) 1" CONDUIT STUBS FROM NEW ELECTRICAL PANEL TO ACCESSIBLE ATTIC SPACE FOR FUTURE USE.
26. CIRCUIT BREAKERS SERVING FIRE ALARM EQUIPMENT SHALL HAVE A RED HANDLE AND LOCK-ON DEVICE.
27. HOLES ARE NOT ALLOWED THROUGH TOP PLATES OF BEARING WALLS AND SHEAR WALLS.
28. INCLUDE FIRE STOP SYSTEMS REQUIRED FOR ALL WORK AFFECTED BY FIRE RATED ASSEMBLIES.
29. INCLUDE ALL WORK REQUIRED TO INVESTIGATE, DEMOLISH, & RECONNECT EXISTING ITEMS.
30. ALL LOW VOLTAGE EQUIPMENT SHALL BE DE-ENERGIZED PRIOR TO DEMO WORK. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO LIVE EQUIPMENT.

LIGHTING GENERAL NOTES:

1. THE CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM OF LIGHT FIXTURES AND CONTROLS THAT COMPLY WITH THE REQUIREMENTS OF CALIFORNIA ENERGY COMMISSION TITLE 24.
2. PROVIDE A COMPLETE AND OPERATIONAL ACUITY CONTROLS nLIGHT CONTROLS PACKAGE IN LIGHTING AREAS. PROVIDE WALL SWITCHES, SENSORS, POWER PACKS, MISCELLANEOUS APPURTENANCES, FACTORY CABLING, AND FACTORY COMMISSIONING.
3. THE PLANS GENERALLY SHOW THE LOCATION OF SWITCHES, SENSORS, CONTROL MODULES ETC. ACTUAL LOCATIONS AND INSTALLATION REQUIREMENTS SHALL BE DETERMINED BY THE MANUFACTURER'S SHOP DRAWINGS. SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL.
4. PROVIDE FACTORY COMMISSIONING, TO INCLUDE COMPLETE CONTROL WIRING/ CALIBRATION/ PROGRAMMING OF LIGHTING CONTROL COMPONENTS.
5. LIGHTING FIXTURE COLORS, WHEN SHOWN TO BE SELECTED BY ARCHITECT OR NOT OTHERWISE SPECIFIED, SHALL BE SUBMITTED TO AND SELECTED BY THE ARCHITECT'S OFFICE. DO NOT SUBMIT COLORS THAT HAVE NOT BEEN APPROVED BY THE ARCHITECT.
6. LIGHTING SYSTEM ACCEPTANCE TESTING IS REQUIRED AS PER TITLE 24. THE CONTRACTOR SHALL INCLUDE ACCEPTANCE TESTING COSTS IN BID. THE CONTRACTOR IS RESPONSIBLE TO MAKE ANY ADJUSTMENTS NECESSARY TO ACHIEVE ACCEPTANCE.
7. AN EQUAL SUBSTITUTE PACKAGE BY ANOTHER MANUFACTURER MAY BE ACCEPTABLE; HOWEVER, THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL REQUIRED COMPONENTS, ADDITIONAL WIRING FOR DIMMING OPERATION OF LIGHT FIXTURES, AND ANYTHING ELSE NEEDED FOR A COMPLETE AND OPERATIONAL SYSTEM. SUBMIT A PROPOSED SUBSTITUTE PACKAGE, COMPLETE WITH ALL FIXTURE CUT SHEETS AND LIGHTING CONTROLS SHOP DRAWINGS, TO THE ENGINEER FOR REVIEW AND APPROVAL. FAILURE TO COMPLY WITH THIS REQUIREMENT WILL RESULT IN REJECTION OF THE SUBSTITUTE PACKAGE.

LOW VOLTAGE GENERAL NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL CONTACT EACH SIGNAL SYSTEM VENDOR AND THOROUGHLY INVESTIGATE THE EXPANDABILITY OF ALL EXISTING SYSTEMS. THE CONTRACTOR'S BID SHALL INCLUDE ALL REQUIRED COMPONENTS, CONFIGURATION, PROGRAMMING, LABOR, ETC. TO INTEGRATE THE NEW SYSTEMS AND WORK SHOWN IN THE ELECTRICAL DRAWINGS AND PROVIDE FOR FULLY FUNCTIONAL LOW VOLTAGE SYSTEMS.
2. EXISTING PULL BOX LOCATIONS ARE DIAGRAMMATIC. VERIFY EXACT LOCATIONS WITH FUSD PROJECT MANAGER. ADD CONDUITS TO EXISTING PULL BOXES WHERE INDICATED. REPAIR ANY DAMAGE INCURRED.
3. LABEL, DISCONNECT, REMOVE, REPULL, AND RETERMINATE EXISTING CABLES AS REQUIRED TO INSTALL NEW CABLING IN EXISTING CONDUITS.
4. FIRE ALARM SYSTEM CABLING SHALL BE RUN IN CONDUIT AS PER FUSD STANDARDS. CABLING FOR OTHER LOW VOLTAGE SYSTEMS INSTALLED IN ACCESSIBLE ATTIC SPACES SHALL BE RUN ON J-HOOKS. WHEREVER CABLING IS TO RUN IN ACCESSIBLE SPACES OR OVER HARD LID CEILINGS, THOSE CABLES SHALL BE RUN IN CONDUIT.
5. TERMINAL CABINETS TO BE WIEGMANN RHC SERIES, OR EQUAL, W/ MOUNTING PANELS / PLYWOOD BACK BOARD. INSTALL ALL REQUIRED TERMINAL STRIPS, PUNCH DOWN BLOCKS, BARRIERS, CABLE ORGANIZERS, LABELING, ETC. FOR A PROFESSIONAL, CODE COMPLIANT INSTALLATION.
6. INSTALL NYLON PULL LINE WITH ALL CABLE RUNS IN UNDERGROUND CONDUITS.

ELECTRICAL SYMBOLS SCHEDULE:

SYMBOL	DESCRIPTION	NOTES
	LIGHTING	
	POLE WITH POST TOP AREA LUMINAIRE	
	POLE WITH SINGLE AREA LUMINAIRE	
	POLE WITH DOUBLE AREA LUMINAIRES	
	LAY-IN LIGHT FIXTURE	
	SURFACE CEILING LIGHT	
	RECESSED DOWN LIGHT	
	WALL LIGHT	
	EXIT SIGN, CEILING	ARROWS INDICATE CHEVRON DIRECTIONS
	EXIT SIGN, WALL	ARROWS INDICATE CHEVRON DIRECTIONS
EL	EXIT SIGN, WALL, LOW LEVEL PER CBC 1013.7	ARROWS INDICATE CHEVRON DIRECTIONS
(A)	FIXTURE TYPE "A"	REFER TO FIXTURE SCHEDULE
	FIXTURE ON EMERGENCY POWER	PROVIDE UNSWITCHED HOT CONDUCTOR
INV	INVERTER	
D	LOW VOLTAGE DRIVER	
$	SWITCH AT +48" AFF TO TOP OF BOX	20A 277V QUIET TOGGLE
	WALL MOUNTED DUAL TECH OCCUPANCY SENSOR SWITCH, 0-10V DIMMING, AT +48" AFF TO TOP OF BOX	ROUGH IN WITH 1G BOX PER SWITCH W/ RING, 1"C. TO ACCESSIBLE ATTIC SPACE
F	WALL MOUNTED ULTRASONIC OCCUPANCY SENSOR SWITCH, W/ SEPARATE EXHAUST FAN RELAY, AT +48" AFF TO TOP OF BOX	ROUGH IN WITH 1G BOX PER SWITCH W/ RING, 1"C. TO ACCESSIBLE ATTIC SPACE
R	UL924 EMERGENCY CONTROL RELAY, 20A, DIMMING OVERRIDE, FUNCTIONAL DEVICES INC #ESRN	MOUNT IN ACCESSIBLE ATTIC OR INCONSPICUOUS LOCATION, HIGH ON WALL, WHEN NO CEILING
S	WIRELESS DIGITAL ON/OFF SWITCH, AT +48" AFF TO TOP OF BOX	nLIGHT AIR SYSTEM, 277V CONSTANT HOT REQUIRED
D	WIRELESS DIGITAL DIMMER SWITCH, AT +48" AFF TO TOP OF BOX	nLIGHT AIR SYSTEM, 277V CONSTANT HOT REQUIRED
DOS	WIRELESS DIGITAL DIMMER SWITCH W/ INTEGRAL OCCUPANCY SENSOR AND PHOTOSENSOR AT +48" AFF TO TOP OF BOX	nLIGHT AIR SYSTEM, 277V CONSTANT HOT REQUIRED
C	DIGITAL "FRESCO" GRAPHICAL TOUCHSCREEN DIMMING, CONTROLLER AT +48" AFF TO TOP OF BOX	nLIGHT SYSTEM, ROUGH IN WITH 1G BOX & RING, 1"C. TO ACCESSIBLE ATTIC
OS	WIRELESS DIGITAL OCCUPANCY SENSOR W/ PHOTOSENSOR, DUAL-TECHNOLOGY, CEILING MOUNT	nLIGHT AIR SYSTEM, 277V CONSTANT HOT REQUIRED
VOS	WIRELESS DIGITAL OCCUPANCY SENSOR W/ PHOTOSENSOR, DUAL-TECHNOLOGY, WALL MOUNT	nLIGHT AIR SYSTEM, 277V CONSTANT HOT REQUIRED
GW	DIGITAL GATEWAY	nLIGHT SYSTEM, PROVIDE (1) GATEWAY AT EACH BUILDING AND CONNECT TO LAN. PROVIDE BOX/OUTLET AT GATEWAY LOCATION FOR GATEWAY POWER SUPPLY.
BR	DIGITAL BRIDGE	nLIGHT SYSTEM, PROVIDE (1) BRIDGE FOR EACH (6) nLIGHT ZONES. PROVIDE OUTLET IN CEILING FOR BRIDGE POWER SUPPLY.
PP	WIRELESS DIMMING POWER PACK VERIFY 0-10V, 2- OR 3-WIRE, MLV, OR ELV BY FIXTURE	nLIGHT AIR SYSTEM, MOUNT IN ACCESSIBLE ATTIC OR INCONSPICUOUS, HIGH ON WALL, WHEN NO CEILING
PPE	WIRELESS DIMMING POWER PACK W/ EMERGENCY CONTROL RELAY. VERIFY 0-10V, 2- OR 3-WIRE, MLV, OR ELV BY FIXTURE	nLIGHT AIR SYSTEM, MOUNT IN ACCESSIBLE ATTIC OR INCONSPICUOUS, HIGH ON WALL, WHEN NO CEILING
XP	DMX CONTROLLER PACK	nLIGHT SYSTEM, MOUNT IN ACCESSIBLE ATTIC OR INCONSPICUOUS, HIGH ON WALL, WHEN NO CEILING
RR	WIRELESS RECEPTACLE RELAY CONTROLLED BY OCCUPANCY SENSOR	nLIGHT AIR SYSTEM, MOUNT IN ACCESSIBLE ATTIC OR INCONSPICUOUS, HIGH ON WALL, WHEN NO CEILING. (1) RELAY PER CIRCUIT IN EACH CONTROLLED AREA.
	PRIMARY DAYLIGHT ZONE BOUNDARY	
	SECONDARY DAYLIGHT ZONE BOUNDARY	
	TEL/DATACOM	
	TERMINAL CABINET	
	DATA OUTLET (RJ-45 CAT6) WITH 2 JACKS AT +18" AFF, U.O.N. (2) DATA JACKS U.O.N.	4-11/16 SQ. BOX, 1G RING, MODULAR PLATE, & 1"C. TO ACCESSIBLE ATTIC. PULL CABLING TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END. REFER TO SPECIFICATIONS.
	(1) DATA JACKS (RJ-45 CAT6) FOR WIRELESS ACCESS POINT	
	WALL MOUNT ANALOG TELEPHONE OUTLET AT +45" AFF, U.O.N. (1) TELEPHONE JACK (CAT6) U.O.N.	1G BOX, 1G RING, MODULAR PLATE, & 3/4"C. TO ACCESSIBLE ATTIC SPACE. PULL CABLING TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END. REFER TO SPECIFICATIONS.
	WALL MOUNT DATA/TELEPHONE OUTLET AT +18" AFF, U.O.N. (1) DATA JACK AND (1) TELEPHONE JACK U.O.N.	4-11/16 SQ. BOX, 1G RING, MODULAR PLATE, & 1 1/4"C. TO ACCESSIBLE ATTIC SPACE. PULL CABLING TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END. REFER TO SPECIFICATIONS.
MDF/MC	"MAIN DISTRIBUTION FRAME"/"MAIN CROSS-CONNECT"	
IDF/HC	"INTERMEDIATE DISTRIBUTION FRAME"/ "HORIZONTAL CROSS-CONNECT"	
TEL	"TEL. SYSTEM HEAD END"	
TT	"TEL. SYSTEM TERMINAL BLOCK"	INSTALL AT BACK OF IDF CABINET
	SECURITY	
	INTRUSION DOOR/WINDOW CONTACT	PROVIDE 1/2"C TO ACCESSIBLE ATTIC SPACE ACCESSIBLE ATTIC SPACE
M	INTRUSION PIR MOTION SENSOR AT CEILING	ROUGH IN WITH 1G BOX & 1/2"C. TO ACCESSIBLE ATTIC SPACE
M	INTRUSION LONG RANGE MOTION SENSOR AT CEILING	ROUGH IN WITH 1G BOX & 1/2"C. TO ACCESSIBLE ATTIC SPACE
GB	INTRUSION GLASS BREAK SENSOR AT CEILING	ROUGH IN WITH 1G BOX & 1/2"C. TO ACCESSIBLE ATTIC SPACE
P	INTRUSION STAFF PANIC BUTTON	ROUGH IN WITH 1G BOX & 1/2"C. TO ACCESSIBLE ATTIC SPACE
K	INTRUSION KEY PAD AT +48" AFF TO TOP OF BOX	ROUGH IN WITH 1G BOX & 1/2"C. TO ACCESSIBLE ATTIC SPACE
	INTRUSION 4-ZONE ADDRESSABLE MODULE IN ACCESSIBLE ATTIC SPACE	
	SURVEILLANCE (CCTV) CAMERA REFER TO SPECIFICATIONS	REFER TO SPECIFICATIONS
MON	SURVEILLANCE (CCTV) TV MONITOR RUN HDMI EXTENDER AND CABLING TO DVR	REFER TO SPECIFICATIONS
DVR	SURVEILLANCE (CCTV) DVR	REFER TO SPECIFICATIONS
SSC	"INTRUSION SYSTEM MAIN PANEL"	
INT	"INTRUSION SYSTEM TERMINAL BLOCK"	

SYMBOL	DESCRIPTION	NOTES
	POWER	
	SWITCHBOARD	REFER TO POWER SINGLE LINE DIAGRAM
	POWER PANEL	REFER TO LS/XE103 AND PANEL SCHEDULE.
	JUNCTION BOX	4-11/16" SQUARE BOX & COVER PLATE MIN.
	DISCONNECT SWITCH, FUSIBLE	DISCONNECT FUSING TO BE PER NAMEPLATE DATA.
	COMBINATION STARTER/DISCONNECT SWITCH	REFER TO MECH. PLANS & SPECS.
	MOTOR	REFER TO MECH. PLANS & SPECS.
	EXHAUST FAN, CEILING MOUNTED	REFER TO MECH. PLANS & SPECS.
	SINGLE CONVENIENCE OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, NEMA GROUNDED TAMPER RESISTANT
	DUPLEX CONVENIENCE OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, NEMA GROUNDED TAMPER RESISTANT, LEVITON #TDR20-W
	QUADPLEX CONVENIENCE OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, NEMA GROUNDED TAMPER RESISTANT, LEVITON #TDR20-W
	GFI DUPLEX OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, NEMA GROUNDED TAMPER RESISTANT, LEVITON #GFTR2-W
	WEATHERPROOF, GFI DUPLEX OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N. W/ WEATHERPROOF IN-USE, METAL, LOCKABLE TYPE COVER	20A SPEC. GRADE, NEMA GROUNDED TAMPER RESISTANT, LEVITON #GFTR2-W
	DUPLEX CONVENIENCE OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N. SPLIT-WIRED WITH UNSWITCHED AND SWITCHED BY OCCUPANCY SENSOR	20A SPEC. GRADE, NEMA GROUNDED TAMPER RESISTANT, LEVITON #TDR2O-S1W CODE COMPLIANT MARKING REQUIRED
	QUADPLEX CONVENIENCE OUTLET, CONTROLLED AT +15" AFF TO BOTTOM OF BOX, U.O.N. ONE UNSWITCHED AND ONE SWITCHED BY OCCUPANCY SENSOR	20A SPEC. GRADE, NEMA GROUNDED TAMPER RESISTANT, LEVITON #TDR20-W AND LEVITON #TDR20-S2W CODE COMPLIANT MARKING REQUIRED
	SPECIAL EQUIPMENT OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N.	VERIFY REQTS W/ EQUIPMENT VENDOR TAMPER RESISTANT
	POWER POLE, 2-COMPARTMENT	
	FLOOR BOX	4-GANG BOX WITH CAST ALUMINUM TRIM PLATES
	12" CU GROUND BUS BAR	WITH #6 GREEN GROUND WIRE TO G.E.C.
	PA/CLK/AV	
	PUBLIC ADDRESS SPEAKER, CEILING MOUNTED	HOMERUN SPEAKER CABLE TO PA TERMINAL BLOCK
	PUBLIC ADDRESS SPEAKER, WALL MOUNTED	HOMERUN SPEAKER CABLE TO PA TERMINAL BLOCK
WP	WP OUTDOOR PUBLIC ADDRESS SPEAKER	HOMERUN SPEAKER CABLE TO PA TERMINAL BLOCK
CK	PUBLIC ADDRESS SPEAKER & WIRELESS CLOCK COMBINATION, WALL MOUNTED	HOMERUN SPEAKER CABLE TO PA TERMINAL BLOCK
	WIRELESS WALL CLOCK	REFER TO SPECIFICATIONS
	MISC.	
	FIRE/SMOKE DAMPER	PROVIDE 120V F.A. CIRCUIT TO DAMPER VIA DEDICATED F.A. RELAY
	SPRINKLER RISER BELL	PROVIDE 120V F.A. CIRCUIT
	WIREMOLD 5400 SURFACE WIREWAY	RISERS WHERE INDICATED ON DRAWINGS
EMS	"ENERGY MANAGEMENT SYSTEM PUNCH BLOCK"	
	DEVICES TO BE REMOVED	
	EXISTING CONDUIT/WIRING TO BE DEMOLISHED	
	EXISTING DEVICES	
	EXISTING CONDUIT/WIRING	
	GENERAL	
	WIRING IN CONDUIT, BELOW GRADE	1" CONDUIT MIN.
	WIRING IN CONDUIT, IN WALL OR CEILING	3/4" CONDUIT MIN.; EMT CONCEALED AND ABV. 96" EXPOSED; GRS BELOW 96" EXPOSED.
LV	LOW VOLTAGE WIRING IN ATTIC SPACE	TYPE PER EQUIPMENT MANUFACTURER
	CONDUIT RISER	3/4" CONDUIT MIN.
	FLEXIBLE CONDUIT	3/4" CONDUIT MIN.
	CONDUIT STUB AND CAP	3/4" CONDUIT MIN.
	CROSS HATCHES INDICATE NUMBER OF #12 AWG. CONDUCTORS IN CONDUIT, WHEN MORE THAN TWO. WIRE SIZE INDICATED ON PLANS WHEN OTHER #12 AWG. PROVIDE GROUND PER CEC 250. PROVIDE DEDICATED NEUTRAL FOR EACH CIRCUIT.	3/4" CON

TYPE OF SPACE	MANUAL ON/OFF/OVERRIDE	DIMMING SWITCH	AUTOMATIC DAYLIGHT DIMMING WHEN AVAILABLE	OCCUPANCY SENSOR ON	OCCUPANCY SENSOR REDUCE TO 70%	OCCUPANCY SENSOR REDUCE TO 50% AFTER 10 MIN.	OCCUPANCY SENSOR OFF AFTER 20 MIN.	GATEWAY OPEN HOURS SCHEDULE ON	GATEWAY CLOSED & HOLIDAY HOURS SCHEDULE OFF	GATEWAY SHADOWS SWITCHES DURING OPEN HOURS	CLOCK TIMER SWITCH WITH 1 HOUR OVERRIDE	REMOTE ON/OFF CONTROL OR KEY SWITCH	CONTROLLED POWER RECEPTACLES	DEMAND RESPONSE CAPABLE	ASTRONOMIC TIMECLOCK ON/OFF	ASTRONOMIC TIMECLOCK W/ OVERRIDE	ASTRONOMIC TIMECLOCK W/ RELAYS
ENTRY / LOBBY	X	X	X	X		X		X	X	X	X		X				
CORRIDOR	X			X	X		X		X	X	X						
OFFICE	X	X	X			X		X						X			
CLASSROOM	X	X	X			X		X									
CONFERENCE ROOM	X	X	X			X		X						X			
MULTI-PURPOSE	X	X	X			X		X				X					
GYMNASIUM	X	X	X			X		X				X					
CAFETERIA	X	X	X			X		X				X					
KITCHEN	X	X	X			X		X									
KITCHENETTES IN OFFICES	X	X	X			X		X									
COPY ROOMS	X	X	X			X		X						X			
LARGE RESTROOM				X		X		X					X				
STAIRWELLS				X		X		X									
STORAGE <100 S.F.	X							X									
ELECTRICAL ROOM	X																
OTHER	X	X	X			X		X									
BUILDING >10,000 S.F.														X			
BUILDING EXTERIOR															X	X	
PEDESTRIAN WALKS															X		
PARKING LOT															X		X

L7 — Lighting Control Matrix

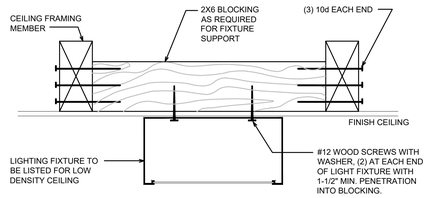
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LUMINAIRE SCHEDULE

TYPE	MANUFACT	CATALOG#	LAMP	WATTS	VOLT	DESCRIPTION	MOUNTING	DETAIL	WEIGHT	REMARKS
A1	ABL - LITHONIA	EPANL 2X4 6000LM 80CRI 35K MIN1 ZT MVOLT NLTAIR2	LED	50	MVOLT	2X4 TROFFER	T-BAR	E14/X/E102	15.1	
A1E	ABL - LITHONIA	EPANL 2X4 6000LM 80CRI 35K MIN1 ZT MVOLT E10WCP NLTAIR2	LED	50	MVOLT	2X4 TROFFER	T-BAR	E14/X/E102	15.1	W/EMERGENCY BATTERY
A2	ABL - LITHONIA	EPANL 2X4 4000LM 80CRI 35K MIN1 ZT MVOLT NLTAIR2	LED	38	MVOLT	2X4 TROFFER	T-BAR	E14/X/E102	15.1	
A2E	ABL - LITHONIA	EPANL 2X4 4000LM 80CRI 35K MIN1 ZT MVOLT E10WCP NLTAIR2	LED	38	MVOLT	2X4 TROFFER	T-BAR	E14/X/E102	15.1	W/EMERGENCY BATTERY
B	ABL - LITHONIA	EPANL 2X2 3400LM 80CRI 35K MIN1 ZT MVOLT NLTAIR2	LED	30	MVOLT	2X2 TROFFER	T-BAR	E14/X/E102	7.4	
C	ABL - LITHONIA	STL4 40L EZ1 LP835	LED	35	MVOLT	1X4 SURFACE	SURFACE	E10/X/E102	13	PROVIDE NLIGHT AIR DIM PACK
CE	ABL - LITHONIA	STL4 40L EZ1 LP835 E10LWCP	LED	35	MVOLT	1X4 SURFACE	SURFACE	E10/X/E102	13	PROVIDE NLIGHT AIR DIM PACK
D	ABL - LITHONIA	LDN4 35/15 LO4AR LSS MVOLT GZ1 NLTAIR2	LED	17.5	MVOLT	4" DOWNLIGHT	RECESSED	A14/X/E102	5.38	
DE	ABL - LITHONIA	LDN4 35/15 LO4AR LSS MVOLT GZ1 NLTAIREM2	LED	17.5	MVOLT	4" DOWNLIGHT	RECESSED	A14/X/E102	5.38	W/EMERGENCY BATTERY
X	ABL - LITHONIA	LHQM LED R HO RO SD	LED	4.3	MVOLT	EXIT	SURFACE	E10BA10/X/E102	3.6	
XR	ABL - LITHONIA	ELMRE LP220L SGL WPVS SML W	LED	1.2	DC	REMOTE HEAD	SURFACE	E10/X/E102	0.75	POWERED FROM FIXTURE 'X'

J10 — Light Fixture Schedule

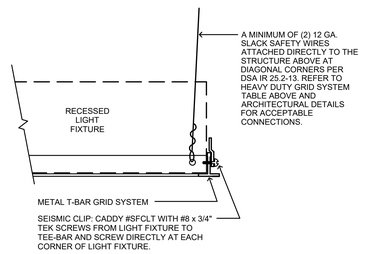
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E10 — Surface Fixture Surface Mounting Detail

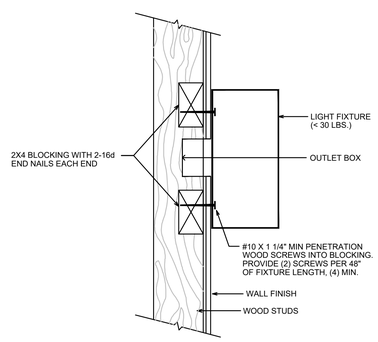
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HEAVY DUTY GRID SYSTEM			
LIGHT FIXTURE DIMENSION	WEIGHT	NO. OF HANGER WIRES	TYPE
< 24" x 48"	< 56 LBS	2	SLACK
> 24" x 48"	> 56 LBS	4	TAUT



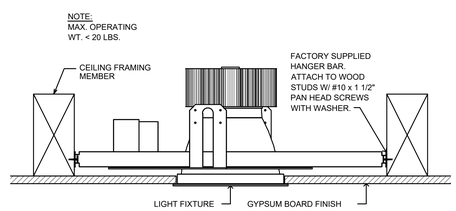
E14 — Lay-in Fixture Grid Mounting Detail

No Scale



A10 — Wall Fixture Surface Mounting Detail

No Scale



A14 — Downlight Fixture Recessed Mounting Detail

No Scale

DSA File No.: *20-30*

DSA Application No.: *02-120517*

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DIV. OF THE STATE ARCHITECT
APP: 02-120517 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

Agency Approval

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REGISTERED PROFESSIONAL ENGINEER C. SCOTT DAVIDSON E17850 ELECTRICAL STATE OF CALIFORNIA

Consultant

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MADERA, CA

Project

TYPICAL INFORMATION
LIGHTING SYSTEMS - FIXTURE SCHEDULE AND DETAILS

Drawing

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LICENSED ARCHITECT ANTONIO J. AVILA No. C26235 Ren. 10-31-24 STATE OF CALIFORNIA

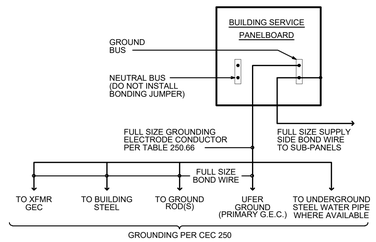
Architect

No.	Revision/Submission	Date

Revision

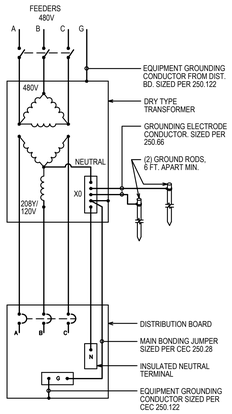
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Scale: As indicated	Drawn By: EN		X/E102
Project Number: 2123	Checked By: SD		
Date: 03/31/2023	Reviewed By: SD		

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N1 — Panelboard Grounding Detail

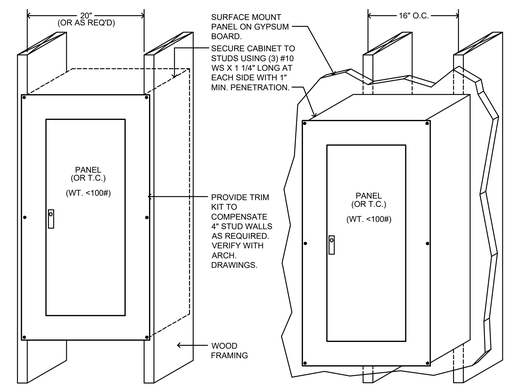
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A GROUNDING ARRANGEMENT FOR A SEPARATELY DERIVED SYSTEM WHERE THE GROUNDING ELECTRODE CONDUCTOR CONNECTION IS MADE AT THE TRANSFORMER.

G1 — Transformer Grounding Detail

No Scale



RECESSED MOUNT

THIS DETAIL APPLIES TO NEW WALL CONSTRUCTION WHERE STUD SPACING CAN BE ADJUSTED. PANEL SHOULD NOT RECESSED TO FIRE RESISTANCE RATED WALL.

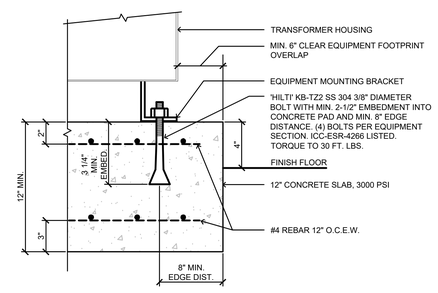
SURFACE MOUNT (ELEC. ROOMS ONLY)

THIS DETAIL APPLIES TO EITHER NEW OR EXISTING WALL CONSTRUCTION. PANEL SHALL BE CENTERED OVER EXISTING STUD FRAMING. WHERE THIS IS NOT POSSIBLE, METALLIC HORIZONTAL BRACING SHALL BE ATTACHED ACROSS (3) WALL STUDS AND LINED UP WITH TOP, CENTER, AND BOTTOM OF PANEL.

PROVIDE LABEL PER G10/X/E103.

L5 — Panelboard Mounting Detail

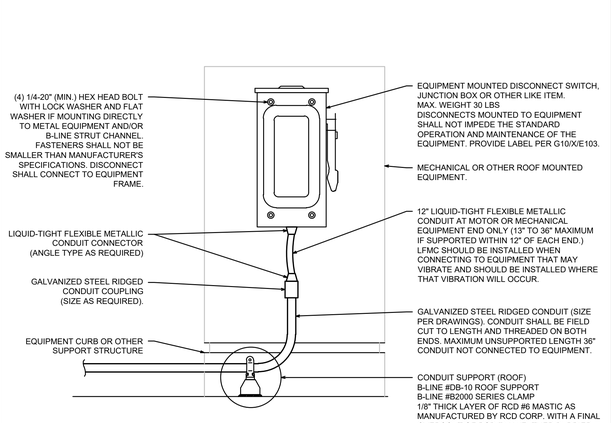
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PROVIDE LABEL PER G10/X/E103.

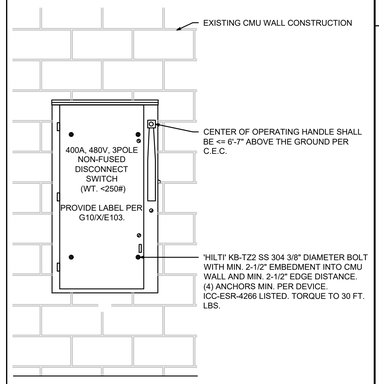
G5 — Transformer Concrete Pad Mounted Detail

No Scale



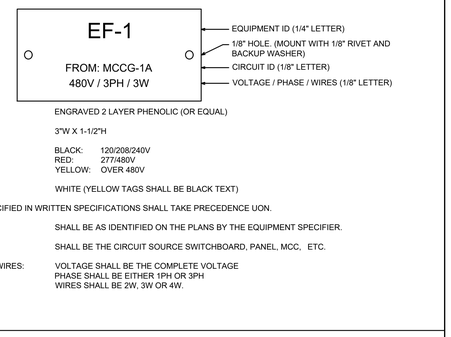
L10 — Equipment Mounted Disconnect Connection Detail (Roof)

No Scale



L15 — Large Disconnect Mounting Detail (CMU)

No Scale



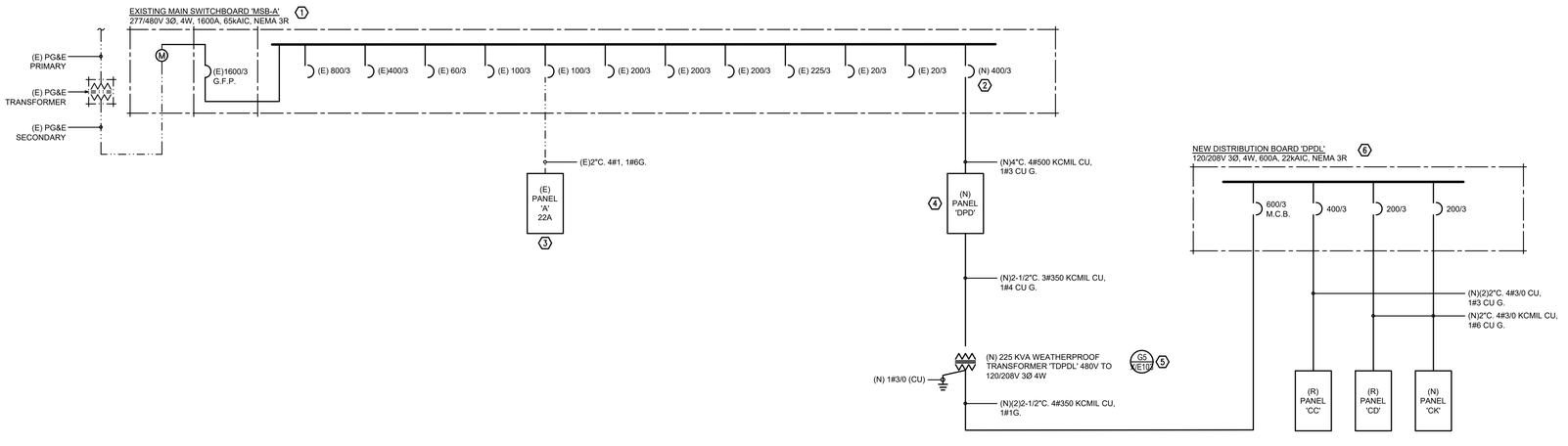
LABEL TYPE:	ENGRAVED 2 LAYER PHENOLIC (OR EQUAL)
LABEL SIZE:	3"W X 1-1/2"H
LABEL COLOR:	BLACK: 120/208/240V RED: 277/480V YELLOW: OVER 480V
TEXT COLOR:	WHITE (YELLOW TAGS SHALL BE BLACK TEXT)

LABEL COLORS SPECIFIED IN WRITTEN SPECIFICATIONS SHALL TAKE PRECEDENCE UON.

EQUIPMENT ID:	SHALL BE AS IDENTIFIED ON THE PLANS BY THE EQUIPMENT SPECIFIER.
CIRCUIT ID:	SHALL BE THE CIRCUIT SOURCE SWITCHBOARD, PANEL, MCC, ETC.
VOLTAGE / PHASE / WIRES:	VOLTAGE SHALL BE THE COMPLETE VOLTAGE PHASE SHALL BE EITHER 1PH OR 3PH WIRES SHALL BE 2W, 3W OR 4W.

G10 — Equipment & Disconnect Label

No Scale



A1 — Power Single Line Diagram

No Scale

DSA File No.: *20-30*

DSA Application No.: *02-120517*

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DIV. OF THE STATE ARCHITECT
APP: 02-120517 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

Agency Approval

KEYNOTES

1. EXISTING 'MSB-A'. SQUARE D QED SWITCHBOARD. 1600A, 277/480V, 3Ø, 4W, NEMA 3R TO REMAIN.
2. PROVIDE (N) 400A/3P CIRCUIT BREAKER WITH ALL REQUIRED HARDWARE, DEAD FRONT, ETC. CIRCUIT BREAKER TO MATCH EXISTING SWITCHBOARD MANUFACTURER, TYPE AND AIC RATING.
3. (E) 100A, 277/480V, 3Ø, 4W, NEMA 3R PANELBOARD 'A' INSTALLED UNDER DSA #02-118068. VERIFY EXACT LOCATION. PROVIDE NEW ENGRAVED PLACARD (RED WITH WHITE TEXT) TO READ:

   "THIS BUILDING SERVED BY TWO SOURCES OF POWER. THIS PANEL IS SOURCE #1. THE SECOND SOURCE OF POWER, PANEL 'DPD', IS LOCATED APPROXIMATELY 55' SOUTH OF THIS PANEL."
4. PROVIDE NEW 200A, 277/480V, 3PH, 4W, NEMA 3R, 42KAIC DISTRIBITION PANEL 'DPD'. PROVIDE NEW ENGRAVED PLACARD (RED WITH WHITE TEXT) TO READ:

   "THIS BUILDING SERVED BY TWO SOURCES OF POWER. THIS PANEL IS SOURCE #2. THE SECOND SOURCE OF POWER, PANEL 'A', IS LOCATED APPROXIMATELY 55' NORTH OF THIS PANEL."
5. PROVIDE 225KVA, 480-120/208V, 3PH, 4W, NEMA 3R DRY-TYPE TRANSFORMER, 115° RISE, CU COIL. 1847 LBS. GE# 9T10C1007G31 OR EQUAL. PROVIDE HOUSEKEEPING PAD PER DETAIL G5/X/E103. 39"x33"x48".
6. PROVIDE NEW 600A, 120/208V, 3PH, 4W, NEMA 3R, 22KAIC DISTRIBUTION PANEL 'DPDL'.

Hardin-Davidson Engineering
356 Pollasky Ave., Suite 200, Clovis, CA 93612
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C. SCOTT DAVIDSON — REGISTERED PROFESSIONAL ENGINEER — E17850 — ELECTRICAL — STATE OF CALIFORNIA
Consultant

THOMAS JEFFERSON MIDDLE SCHOOL KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA
Project

TYPICAL INFORMATION
POWER SYSTEMS - SINGLE LINE DIAGRAMS AND DETAILS
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Architect

No.	Revision/Submission	Date

Revision

		Designed By: SD	Copyright 2023 Darden Architects
Scale:	As indicated	Drawn By: EN	X/E103
Project Number:	2123	Checked By: SD	
Date:	03/31/2023	Reviewed By: SD	

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(N) PANEL "DPD" SCHEDULE

277/480V 3Φ 4W — OUTDOOR / SURFACE

CKT. NO.	DESCRIPTION	BREAKER AMPS	BREAKER POLE(S)	VA	Φ	VA	BREAKER AMPS	BREAKER POLE(S)	DESCRIPTION	CKT. NO.
1	HC-1	30	3	5044	A	51165	300	3	TRANFSORMER 'TDPDL'	2
3	--	--	--	5044	B	55347	--	--	--	4
5	--	--	--	5044	C	45441	--	--	--	6
7	HC-2	40	3	5681	A					8
9	--	--	--	5681	B					10
11	--	--	--	5681	C					12
13					A					14
15					B					16
17					C					18

LOAD SUMMARY:
Φ A 51890 VA
Φ B 66072 VA
Φ C 56165 VA
CONNECTED LOAD: 184.1 kVA
MAX CURRENT: 239 A

BUSING: 400A CU
MAIN: 400A M.C.B.

(R) PANEL "CC" SCHEDULE

120/208V 3Φ 4W — INDOOR / FLUSH

CKT. NO.	DESCRIPTION	BREAKER AMPS	BREAKER POLE(S)	VA	Φ	VA	BREAKER AMPS	BREAKER POLE(S)	DESCRIPTION	CKT. NO.
1	RECEP - ROOF MAINTENANCE**	20	1	180	A	872	20	1	LTS - KITCHEN, LINE SERVERY, GRAB AND GO**	2
3	SPARE**	20	1	0	B	3653	60	2	LINE SERVER PANEL BOX 'B'**	4
5	RECEP - KITCHEN CONV**	20	1	360	C	3653	--	--	--	6
7	(E) CAFETERIA LIGHTS (ALWAYS ON)*	20	1	1200	A	180	20	1	RECEP - LINE SERVERY**	8
9	(E) CAFETERIA LIGHTS (ALWAYS ON)*	20	1	1200	B	1000	30	1	(E) PLUGS*	10
11	(E) CAFETERIA LIGHTS*	20	1	1200	C	1440	20	1	RECEP - MOBILE WARM. CAB. LINE SERVERY**	12
13	(E) CAFETERIA LIGHTS*	20	1	1200	A	1000	20	1	(E) PLUGS*	14
15	(E) CAFETERIA LIGHTS*	20	1	1200	B	715	20	1	RECEP - LINE SERVERY REACH IN REFRIGERATOR**	16
17	(E) CAFETERIA LIGHTS*	20	1	1200	C	1000	20	1	(E) PLUGS*	18
19	GRAB AND GO LINE PANEL BOX 'A'**	60	2	3856	A	1000	20	1	(E) PLUGS*	20
21	--	--	--	3856	B	1000	20	1	(E) FAN*	22
23	RECEP - GRAB AND GO**	20	1	360	C	1920	20	1	RECEP - VACUUM SEALER**	24
25	(E) CAFETERIA PLUGS*	20	1	500	A	1612	20	2	HEATED PASSTHROUGH**	26
27	(E) CAFETERIA PLUGS (AD PLUG)*	20	1	500	B	1612	--	--	--	28
29	(E) CAFETERIA PLUGS*	20	1	500	C	996	20	1	RECEP - REFRIGERATED PASSTHROUGH**	30
31	FLY FANS - GRAB AND GO**	20	1	816	A	1440	20	1	RECEP - MOBILE WARM. CAB. LINE SERVERY**	32
33	FLY FANS - CAFETARIA**	20	1	816	B	500	20	1	KITCHEN HOOD CONTROL**	34
35	EF-2A**	20	2	1373	C	500	20	1	KITCHEN HOOD ANSUL SYSTEM** ***	36
37	--	--	--	1373	A	3218	40	3	BLAST CHILLER**	38
39	EF-2B**	20	2	1373	B	3218	--	--	--	40
41	--	--	--	1373	C	3218	--	--	--	42
43	WARE WASHER**	60	3	5524	A	1440	20	1	RECEP - MOBILE WARM. CAB. KITCHEN NORTH**	44
45	--	--	--	5524	B	1800	20	1	RECEP - CHEFS COUNTER**	46
47	--	--	--	5524	C	1800	20	1	RECEP - CHEFS COUNTER**	48
49	RECEP - GRAB AND GO REGISTER**	20	1	180	A	1800	20	1	RECEP - CHEFS COUNTER**	50
51	RECEP - MOBILE WARM. CAB. KITCHEN WEST**	20	1	1440	B	1800	20	1	RECEP - CHEFS COUNTER**	52
53	RECEP - MOBILE WARM. CAB. KITCHEN WEST**	20	1	1440	C	468	20	1	RECEP - PIZZA/SANDWICH PREP STATION**	54
55	REFRIGERATED DISPLAY CASE**	40	1	3000	A	68	20	1	TRAP PRIMERS**	56
57	REFRIGERATED DISPLAY CASE**	40	1	3000	B	0	20	1	SPARE**	58
59	FIRE ALARM BOOSTER** ***	20	1	500	C	0	20	1	SPARE**	60
61	SPARE**	20	1	0	A	0	20	1	SPARE**	62
63	SPARE**	20	1	0	B	0	20	1	SPARE**	64
65	SPARE**	20	1	0	C	0	20	1	SPARE**	66
67	SPARE**	20	1	0	A	0	20	1	SPARE**	68
69	SPARE**	20	1	0	B	0	20	1	SPARE**	70
71	SPARE**	20	1	0	C	0	20	1	SPARE**	72

LOAD SUMMARY:
Φ A 30459 VA
Φ B 34707 VA
Φ C 28824 VA
CONNECTED LOAD: 93.5 kVA
MAX CURRENT: 285 A

BUSING: 400A CU / 22 KAIC
MAIN: 400A
NOTES: * RECONNECT EXISTING LOAD TO NEW PANEL
** NEW LOAD UNDER THIS PROJECT
*** PROVIDE RED HANDLE LOCK-ON DEVICE

(R) PANEL "CD" SCHEDULE

120/208V 3Φ 4W — INDOOR / FLUSH

CKT. NO.	DESCRIPTION	BREAKER AMPS	BREAKER POLE(S)	VA	Φ	VA	BREAKER AMPS	BREAKER POLE(S)	DESCRIPTION	CKT. NO.
1	(E) FOOS PREP LIGHTS (LIGHTS HALL)*	20	1	500	A	1500	20	1	(E) COOLER* (BR-19)	2
3	LTS - RM 107, 108, 109, 110, 111, 112**	20	1	394	B	500	20	1	(E) REFER. BOX LIGHTS*	4
5	(E) HALLWAY LIGHTS(LIGHTS HALL)*	20	1	500	C	500	30	1	(E) REFER. ALARMS*	6
7	SPARE**	20	1	0	A	2000	30	2	(E) WALK-IN FREEZER* (BR-29/31)	8
9	(E) LOADING DOCK LITS*	20	1	500	B	2000	--	--	--	10
11	RECEP - MGR OFFICE 109**	20	1	1080	C	1800	20	1	(E) DEFROST* (BR-33)	12
13	RECEP - CUSTODIAL**	20	1	180	A	0	20	1	SPARE*	14
15	RECEP - CORR, LOCKERS, STAFF R.R., DRY GOODS**	20	1	720	B	500	30	1	(E) HALL PLUG (FAN BACKROOM)*	16
17	RECEP - ROOF MAINTENANCE**	20	1	180	C	32	20	1	EF-1A, EF-1B**	18
19	SPARE**	20	1	0	A	4410	70	2	HC-3**	20
21	SPARE**	20	1	0	B	4410	--	--	--	22
23	SPARE**	20	1	0	C	408	20	1	FLY FAN - RECEIVING**	24
25	SPARE**	20	1	0	A	1500	20	1	WATER HEATER WH-1**	26
27	SPARE**	20	1	0	B	125	20	1	HOT WATER CIRC PUMP CP-1**	28
29	SPARE**	20	1	0	C	1800	20	1	WALK IN HEAT TRACE**	30
31	SPARE**	20	1	0	A	0	20	1	SPACE	32
33	SPARE**	20	1	0	B	0	20	1	SPACE	34
35	SPARE**	20	1	0	C	0	20	1	SPACE	36
37	SPARE**	20	1	0	A	0	20	1	SPACE	38
39	SPARE**	20	1	0	B	0	20	1	SPACE	40
41	SPARE**	20	1	0	C	0	20	1	SPACE	42

LOAD SUMMARY:
Φ A 8590 VA
Φ B 9024 VA
Φ C 4500 VA
CONNECTED LOAD: 22.1 kVA
MAX CURRENT: 75 A

BUSING: 225A CU / 22 KAIC
MAIN: 200A
NOTES: * RECONNECT EXISTING LOAD TO NEW PANEL
** NEW LOAD UNDER THIS PROJECT

(N) PANEL "CK" SCHEDULE

120/208V 3Φ 4W — INDOOR / FLUSH

CKT. NO.	DESCRIPTION	BREAKER AMPS	BREAKER POLE(S)	VA	Φ	VA	BREAKER AMPS	BREAKER POLE(S)	DESCRIPTION	CKT. NO.
1	COMBI OVEN #1	20	3	1237	A					2
3	--	--	--	1237	B					4
5	--	--	--	1237	C					6
7	COMBI OVEN #2	20	3	1237	A					8
9	--	--	--	1237	B					10
11	--	--	--	1237	C					12
13	COMBI OVEN #3	20	3	1237	A					14
15	--	--	--	1237	B					16
17	--	--	--	1237	C					18
19	ELECTRIC TILT SKILLET	100	3	8406	A					20
21	--	--	--	8406	B					22
23	--	--	--	8406	C					24
25					A					26
27					B					28
29					C					30

LOAD SUMMARY:
Φ A 12117 VA
Φ B 12117 VA
Φ C 12117 VA
CONNECTED LOAD: 36.3 kVA
MAX CURRENT: 101 A

BUSING: 225A CU / 22 KAIC
MAIN: 200A M.C.B. W/120V SHUNT TRIP
NOTES: SHUNT TRIP ON HOOD FIRE SYSTEM DISCHARGE

DSA File No.: *20-30*

DSA Application No.: *02-120517*

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120517 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023
Agency Approval

Hardin-Davidson Engineering
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Consultant

REGISTERED PROFESSIONAL ENGINEER C. SCOTT DAVIDSON E17850 ELECTRICAL STATE OF CALIFORNIA

THOMAS JEFFERSON MIDDLE SCHOOL
KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA
Project

TYPICAL INFORMATION
POWER SYSTEMS - PANEL SCHEDULES
Drawing

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LICENSED ARCHITECT ANTONIO J. AVILA No. C26235 Rev. 10-31-24 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

Designed By: SD
Drawn By: EN
Checked By: SD
Reviewed By: SD
Scale: As indicated
Project Number: 2123
Date: 03/31/2023

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X/E104

A1 Panel Schedules
No Scale

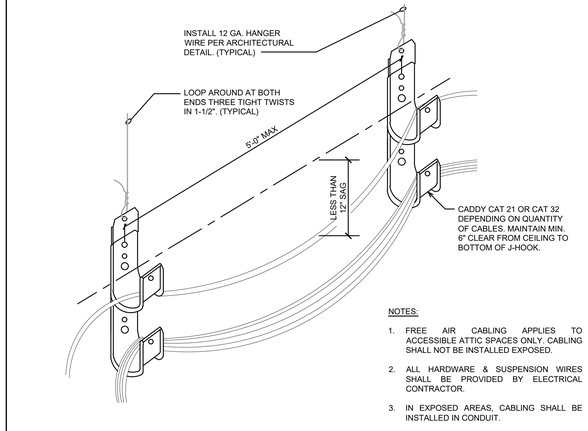
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DSA File No.:
20-30

DSA Application No.:
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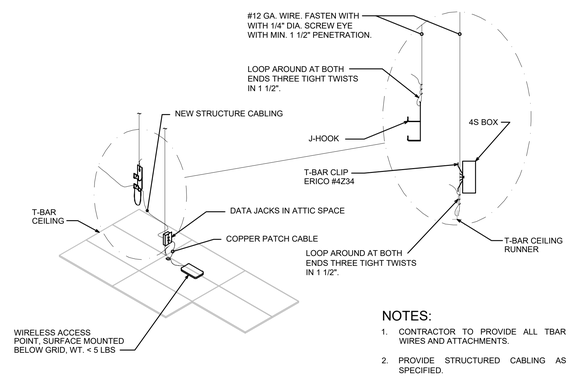
Agency Approval



NOTES:

1. FREE AIR CABLING APPLIES TO ACCESSIBLE ATTIC SPACES ONLY. CABLING SHALL NOT BE INSTALLED EXPOSED.
2. ALL HARDWARE & SUSPENSION WIRES SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR.
3. IN EXPOSED AREAS, CABLING SHALL BE INSTALLED IN CONDUIT.

A8 — J-Hook Cable Support Detail (Concealed Attic Spaces Only)
No Scale



NOTES:

1. CONTRACTOR TO PROVIDE ALL TBAR WIRES AND ATTACHMENTS.
2. PROVIDE STRUCTURED CABLING AS SPECIFIED.
3. REPLACE ANY BROKEN TILES. ALERT OWNER TO ANY DAMAGE PRIOR TO INSTALLATION.

A13 — Wireless Access Point At T-Bar Ceiling Detail
No Scale

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THOMAS JEFFERSON MIDDLE SCHOOL KITCHEN REMODEL

MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA

Project

TYPICAL INFORMATION

LOW VOLTAGE SYSTEMS - DETAILS

Drawing

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LICENSED ARCHITECT ANTONIO J. AVILA No. C26235 Ren. 10-31-24 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

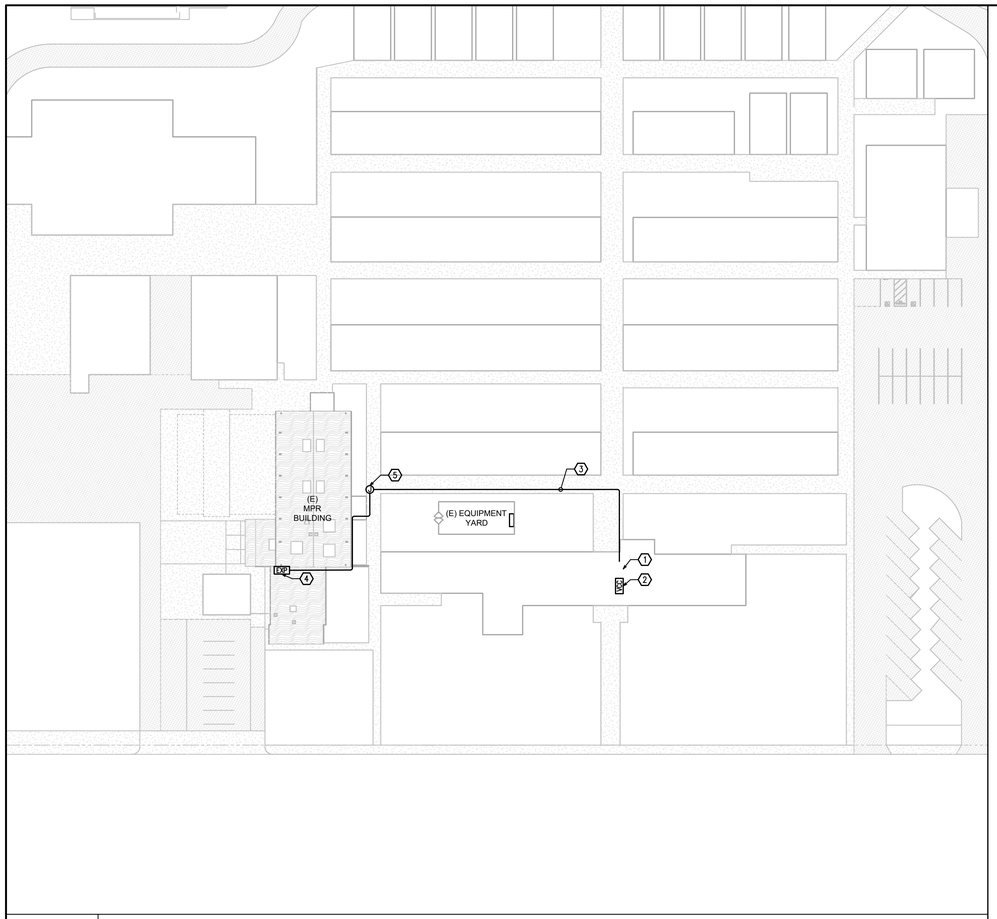
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Drawn By: EN
Checked By: SD
Reviewed By: SD

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Scale: As indicated
Project Number: 2123
Date: 03/31/2023

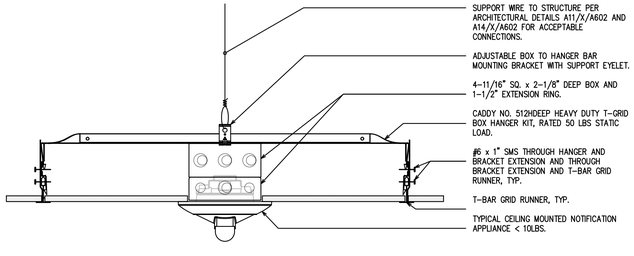
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H1 | Fire Alarm System Reference Site Plan

1" = 60' - 0"



A1 | NOTIFICATION APPLIANCE T-BAR CEILING MOUNTING DETAIL

No Scale

FIRE ALARM GENERAL NOTES:

1. FIRE ALARM SYSTEM: ADDRESSABLE, CLASS B, AUTOMATIC.
2. ALL WORK SHALL CONFORM TO THE 2016 EDITION OF NFPA 72, AND THE 2019 EDITION OF CBC, CEC, AND CFC.
3. INSTALLATION OF THE FIRE ALARM SYSTEM (FAS) SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATIONS, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY DSA.
4. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR. (THE LOCAL FIRE AUTHORITY MAY WITNESS THE TEST).
5. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR THE INSTALLATION.
6. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF THE PROJECT.
7. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.
8. ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL, OR OTHER LAB TESTING CRITERIA. APPROVED TYPE OF MATERIALS SHALL BE IDENTIFIED WITHIN THE SPECIFICATION WITHIN THE FIRE ALARM SECTION.
9. MICROPHONE ASSOCIATED WITH EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVAC) SHALL BE ACCESSIBLE FOR USE, INSTALLED IN COMPLIANCE WITH CBC SECTIONS 11B-305 AND 11B-308.
10. WALL MOUNTED VISUAL NOTIFICATION DEVICES SHALL HAVE THEIR ENTIRE LENS WITHIN AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.
11. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THAN 6" TO A HORIZONTAL STRUCTURE.
12. AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBELS (dBA) ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR 5 dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, IN EVERY SPACE WITHIN A BUILDING THAT MAY BE OCCUPIED AND BE INTELLIGIBLE.
13. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN, PRIOR TO "EVAC" ANNOUNCEMENT. THE CARBON MONOXIDE SIGNAL SHALL SOUND A FOUR-PULSE TEMPORAL PATTERN PER NFPA 720, 5.8.6.5.1.
14. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
15. VISUAL DEVICES SHALL NOT EXCEED 2 FLASHES PER SECOND AND SHALL NOT BE SLOWER THAN 1 FLASH PER SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. VISUAL DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.
16. UNDERGROUND AND EXTERIOR CONDUITS SHALL HAVE WATERTIGHT FITTINGS AND WIRE APPROVED FOR WET LOCATIONS.
17. ALL FIRE ALARM WIRING SHALL BE FLP OR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE THHN OR THWN.
18. PER CEC STANDARDS, ALL WIRING SHALL BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE WIRE. ANY CONNECTION SHALL BE BY LUG CONNECTION AT A DEVICE OR AT A FATC TERMINAL BLOCK ONLY. ALL BOXES TO BE SIZED PER CEC.
19. SMOKE DETECTORS SHALL NOT BE CLOSER THAN 12" FROM FIRE SPRINKLERS NOR 36" FROM SUPPLY AIR DIFFUSERS. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION, NEWLY INSTALLED FIRE ALARM DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
20. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY, OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS, AND IN WALLS IN A NEAT AND PROTECTED MANOR AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS. OWNER STANDARDS MAY BE MORE STRINGENT.
21. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS' SPECIFICATIONS. ANY SINGLE DEVICE SHALL NOT EXCEED THE WEIGHT OF 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
22. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A LOCKING DEVICE WITH RED MARKING PER NFPA 72, SECTION 10.6.5.4 AND 10.6.5.2.3 TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL". CIRCUIT ID TO BE LABELED AT THE FIRE PANEL/EXTENDERS.
23. THE INSTALLING CONTRACTOR SHALL PROVIDE A RECORD OF COMPLETION IN COMPLIANCE WITH NFPA 72, SECTION 7.5.6.
24. CONTROL PANELS AND REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48".
25. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC 901.6.2.
26. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTIONS WITH FINAL TEST. FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. THE SUPERVISING STATIONS SHALL BE LISTED AS EITHER UUFX (CENTRAL STATION) OR UUJS (REMOTE AND PROPRIETARY) BY UNDERWRITERS LABORATORY (UL) OR SHALL COMPLY WITH THE REQUIREMENTS OF STANDARD FM 3011. A COPY OF ALL DEVICES REPORTED TO THE CENTRAL STATION SHALL BE PROVIDED TO THE OWNER'S ELECTRONICS DEPARTMENT.
27. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.
28. ALL WIRING IS SHOWN DIAGRAMMATICALLY. SUBJECT TO DSA APPROVAL, CONTRACTOR MAY VARY SEQUENCE OF CIRCUITRY; HOWEVER, ALL CIRCUITS SHALL BE CONTINUOUS AND SUPERVISED.
29. ALL CONNECTIONS SHALL BE PROPERLY LABELED BY CONDUCTOR AND SHALL HAVE STA-KON LUG CONNECTORS. PANDUIT TAG (TIE WRAP) SEPARATELY.
30. FIRE ALARM TERMINAL CABINETS SHALL HAVE SUFFICIENT SPACE, TERMINAL BOARDS AND SCREW TERMINAL CONNECTORS TO ALLOW CONNECTION OF ALL CONDUCTORS SHOWN. PROVIDE BARRIER TO SEPARATE FIRE ALARM SYSTEM WHEN TERMINAL CABINET IS SHARED WITH NON-FIRE ALARM SYSTEMS. CONTRACTOR SHALL BE REQUIRED TO SUBMIT WITH HIS OTHER SHOP DRAWINGS DETAILED DRAWINGS OF HIS PROPOSED CONNECTIONS AT EACH FIRE ALARM TERMINAL CABINET PRIOR TO COMMENCING ANY WORK.
31. ALL NAC CIRCUIT CONDUCTORS SHALL BE #12 AWG, STRANDED (19 STRANDS OR LESS) COPPER, UNLESS OTHERWISE NOTED.
32. SET END-OF-LINE RESISTORS IN DISTRIBUTION TERMINAL CABINETS.
33. BATTERIES SHALL BE STAMPED WITH DATE OF MANUFACTURE.
34. INSTALLATION OF FAS EQUIPMENT SHALL BE BY AN AUTHORIZED ENGINEERED SYSTEM DISTRIBUTOR FOR THE EQUIPMENT SPECIFIED BY THE MANUFACTURER FOR SALES, SERVICE, INSTALLATION AND MAINTENANCE. PROVIDE CERTIFICATIONS WITH EQUIPMENT SUBMITTALS. SUBMITTALS BY FIRMS NOT FULFILLING THIS REQUIREMENT WILL BE AUTOMATICALLY REJECTED.
35. THE FAS INSTALLER SHALL BE NICET LEVEL 2 CERTIFIED.
36. THE FAS INSTALLER SHALL PROVIDE ALL FACTORY WARRANTIES TO THE OWNER AT THE CLOSE UP OF THE PROJECT.
37. THE FAS INSTALLER SHALL PROVIDE WRITTEN CERTIFICATION USING NFPA 72 INSPECTION AND TESTING FORMS AND SHALL CERTIFY THAT THE INSTALLATION, TESTING, AND OPERATION CONFORM IN ALL RESPECTS TO THE REQUIREMENTS AS SET FORTH IN TITLE 19 OF THE CALIFORNIA CODE OF REGULATIONS AND PART 3, ARTICLE 760 OF TITLE 24 OF THE C.C.R. AND C.B.C. SECTION 907. THE CONTRACTOR SHALL SUBMIT THE COMPLETED FAS CERTIFICATION AND DESCRIPTION FORM TO DIVISION OF STATE ARCHITECT.
38. INCLUDE ALL DEMOLITION OF EXISTING FIRE ALARM SYSTEM WHETHER SPECIFICALLY SHOWN OR NOT. REMOVE ALL CABLING & UNUSED EXPOSED RACEWAY & OUTLETS. BLANK OFF ALL UNUSED WALL & HARD CEILING OUTLETS. REMOVE ALL UNUSED OUTLETS IN TEE-BAR CEILING & REPLACE ACOUSTIC TILES. RETURN ALL DEVICES, APPLIANCES, & CONTROL PANELS TO OWNER IF REQUESTED BY OWNER DURING CONSTRUCTION.
39. WHEN FIRE ALARM WORK WILL DISABLE PORTIONS OF THE EXISTING FAS, PROVIDE ALL REQUIRED OVERTIME AND FIRE WATCH IN SCOPE OF WORK.
40. WHERE FIRE ALARM DEVICES ARE BEING INSTALLED IN OTHERWISE INACCESSIBLE AREAS, PROVIDE AN ALLOWANCE FOR THE INSTALLATION OF ACCESS PANELS AND ALL WORK ASSOCIATED WITH THE INSTALLATION. THE CONTRACTOR SHALL CUT ALL THE OPENINGS. THE SIZE OF THE ACCESS PANEL SHALL BE DETERMINED BY THE MAN ACCESS REQUIREMENTS. PROVIDE PAINT GRADE ACCESS DOORS AND PAINT TO MATCH THE COLOR & SHEEN OF THE EXISTING CEILING.
41. FIRE ALARM SYSTEM INSPECTION, TESTING, AND MAINTENANCE SHALL COMPLY WITH NFPA 72, CHAPTER 14.
42. PROVIDE FIRE ALARM RECORD DOCUMENTS CABINET NFPA 72, 7.7.2

- EVERY NEW FIRE ALARM SYSTEM SHALL PROVIDE A DOCUMENTATION CABINET, INSTALLED AT THE SYSTEM CONTROL PANEL OR OTHER APPROVED LOCATION.
- THE DOCUMENTATION CABINET SHALL BE PROMINENTLY LABELED, "FIRE ALARM SYSTEM RECORD DOCUMENTS".
- ALL RECORD AND TESTING DOCUMENTATION SHALL BE STORED IN THE CABINET.
- CONTENTS SHALL BE ACCESSIBLE BY AUTHORIZED PERSONNEL ONLY.
- WHERE CABINET IS INSTALLED IN A LOCATION OTHER THAN THE SYSTEM CONTROL UNIT, ITS LOCATION SHALL BE IDENTIFIED AT THE SYSTEM CONTROL UNIT.

PROVIDE SYSTEM DOCUMENTS AS APPLICABLE:

- RECORD DRAWINGS/AS-BUILTS
- EQUIPMENT CUT SHEETS & CA SFM LISTINGS
- ALTERNATIVE MEANS AND METHODS
- PERFORMANCE BASED DESIGN DOCUMENTATION (NFPA 72, 7.3.7)
- SYSTEM RECORD OF COMPLETION & ANY SUPPLEMENTAL INSPECTION AND TESTING DOCUMENTATION (NFPA 72, 7.8.2)
- EMERGENCY RESPONSE PLAN (NFPA 72, 7.3.8)
- EVALUATION DOCUMENTATION (NFPA 72, 7.3.9)
- RISK ANALYSIS DOCUMENTATION (NFPA 72, 7.3.6)
- SOFTWARE & FIRMWARE CONTROL DOCUMENTATION (NFPA 72, 23.2.2)

FIRE ALARM SYMBOLS SCHEDULE:

SYMBOL	NAME	DESCRIPTION	CSFM
FCP	(E) FIRE ALARM EVAC PANEL	GAMEWELL/FCI # E3 SERIES	7165-1703:0125
EXP	(E) NAC SIGNAL AND AUDIO BOOSTER PNL	WHEELOCK #SPB-80/4	6911-0785:0157
	SMOKE DETECTOR, PHOTOELECTRIC DETECTOR BASE	GAMEWELL/FCI # ASD-PL3 GAMEWELL/FCI # B501	7272-1703:0501 7300-1653:0109
	CEILING HEAT DETECTOR, 135°F DETECTOR BASE	GAMEWELL/FCI # ATD-L3 GAMEWELL/FCI # B501	7270-1703:0502 7300-1653:0109
	ATTIC HEAT DETECTOR, 190°F DETECTOR BASE	GAMEWELL/FCI # ATD-L3H GAMEWELL/FCI # B501	7270-1703:0502 7300-1653:0109
	MULTI-CRITERIA, PHOTOELECTRIC & CO DETECTOR SOUNDER BASE (TEMPORAL 4)	GAMEWELL/FCI # MCS-COP3 GAMEWELL/FCI # B200S	7275-1703:0510 7300-1653:0213
	DUCT SMOKE DETECTOR W/REMOTE TEST SWITCH	SYSTEM SENSOR # D4120 SYSTEM SENSOR # RTS151KEY	3242-1653:0207
M	MONITOR MODULE	GAMEWELL/FCI # AMM-2F	7300-1703:0102
R	RELAY MODULE	GAMEWELL/FCI # AOM-2SF	7300-1703:0102
SXW	SPEAKER/VISIBLE NAC DEVICE, WALL MT'D (WATTS & cd INDICATED ON PLANS)	EATON/WHEELOCK # ELSPSTW	7320-0785:0505
SXX	VISIBLE NAC DEVICE, WALL MT'D (cd INDICATED ON PLANS)	EATON/WHEELOCK # ELSTW	7135-0785:0504
SXW	(E) EXTERIOR SPEAKER, W.P., WALL MT'D (WATTS INDICATED ON PLANS)	EATON/WHEELOCK # ET-1010-W	7320-0785:0105
SXW	SPEAKER/VISIBLE NAC DEVICE, CEIL. MT'D (WATTS & cd INDICATED ON PLANS) SEE DETAIL A1/X/E201	EATON/WHEELOCK # ELSPSTWC	7320-0785:0505
SXX H	(E) HORN/VISIBLE NAC DEVICE, WALL MT'D (cd INDICATED ON PLANS)		
M	(E) NAC ZOME MODULE	EATON/WHEELOCK # 12/24-R	7300-0755:0132

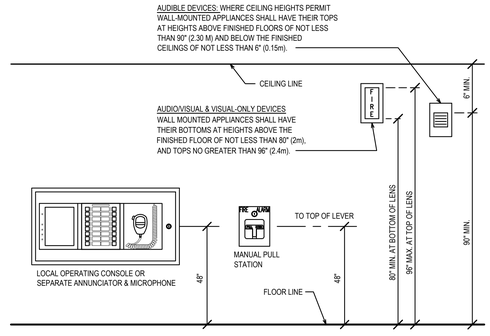
FIRE ALARM CABLE SCHEDULE:

SYMBOL	NAME	DESCRIPTION
A	SIGNALING LINE CIRCUIT (SLC) CABLE WEST PENN #D990	16/2 TWISTED PAIR, STRANDED, LOW CAPACITANCE FA POWER LIMITED, RISER CABLE (FPLR)
B	NOTIFICATION APPLIANCE CKT (NAC) CABLE WEST PENN #998S	12/2 TWISTED PAIR, STRANDED FA POWER LIMITED, RISER CABLE (FPLR)
C	EM. VOICE/ALARM COMM. (EV/AC) CABLE WEST PENN #HF995	14/2 SHIELDED TWISTED PAIR, STRANDED FA POWER LIMITED CABLE (FPL)
G	POWER CABLE WEST PENN #998S	12/2, TWISTED PAIR, STRANDED FA POWER LIMITED, RISER CABLE (FPLR)
R	REMOTE TEST SWITCH	4#14 THHN

INITIATION CONDITION / ACTION	FIRE SPRINKLER TAMPER SWITCH, POST INDICATOR VALVE	CARBON-MONOXIDE (CO) DETECTOR END OF LIFE	CARBON-MONOXIDE (CO) DETECTOR ALARM	SMOKE, HEAT DETECTOR, FIRE SPRINKER FLOW SWITCH	POWER LOSS, SHORT CIRCUIT, GROUND FAULT
ANNUNCIATE TROUBLE					●
ANNUNCIATE ALARM				●	
ANNUNCIATE CO ALARM			●		
ANNUNCIATE SUPERVISORY	●	●			
INITIATE NOTIFICATION APPLICANCES				●	
INITIATE EVAC APPLICANCES				●	
TRANSMIT TO CENTRAL STATION	●		●	●	●
SHUTDOWN HVAC UNITS				●	
DOOR RELEASE				●	●

E13 | Fire Alarm Sequence of Operations Matrix

No Scale



A13 | Fire Alarm Wall Mounted Devices Elevation

No Scale

DSA File No.: *20-30*

DSA Application No.: *02-120517*

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120517 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

Agency Approval

KEYNOTES

1. EXISTING FIRE ALARM CONTROL PANEL IN ADMINISTRATION OFFICE TO REMAIN. VERIFY EXISTING CONDITIONS.
2. EXISTING FIRE ALARM VOICE COMMAND CENTER IN ADMINISTRATION OFFICE TO REMAIN. VERIFY EXISTING CONDITIONS. INSTALLED PER DSA #02-118068.
3. (E) 1"C ON ROOF OF WALKWAY. REPLACE EXISTING AUX-1 POWER FOR CO DETECTORS (DSA #02-118068) IN MPR WITH NEW (1)G CABLE IN EXISTING CONDUIT. PATHWAY IS SHOWN DIAGRAMMATICALLY. VERIFY EXISTING CONDITIONS IN FIELD PRIOR TO BIDDING AND COMMENCING WORK.
4. EXISTING FIRE ALARM BOOSTER/AMPLIFIER PANEL TO REMAIN. VERIFY EXISTING LOCATION PRIOR TO BIDDING. INSTALLED PER DSA #02-118068.
5. EXISTING FIRE ALARM SYSTEM JUNCTION BOX ON ROOF OF WALKWAY. VERIFY EXISTING LOCATION PRIOR TO BIDDING. INSTALLED PER DSA #02-118068.
6. EXISTING 1600A, 277/480V, 3Ø, NEMA 3R MAIN SWITCHBOARD TO REMAIN. PROVIDE (N) 200A/3P CIRCUIT BREAKER WITH ALL REQUIRED HARDWARE, DEAD FRONT, ETC. CIRCUIT BREAKER TO MATCH EXISTING SWITCHBOARD MANUFACTURER, TYPE AND AIC RATING.
7. 2"C. - 4#3/0 CU, 1#6 CU GRD.

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E17850
REGISTERED PROFESSIONAL ENGINEER C. SCOTT DAVIDSON ELECTRICAL STATE OF CALIFORNIA
Consultant

THOMAS JEFFERSON MIDDLE SCHOOL KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA
Project

TYPICAL INFORMATION
FIRE ALARM SYSTEM - SYMBOLS, NOTES, AND DETAILS
Drawing

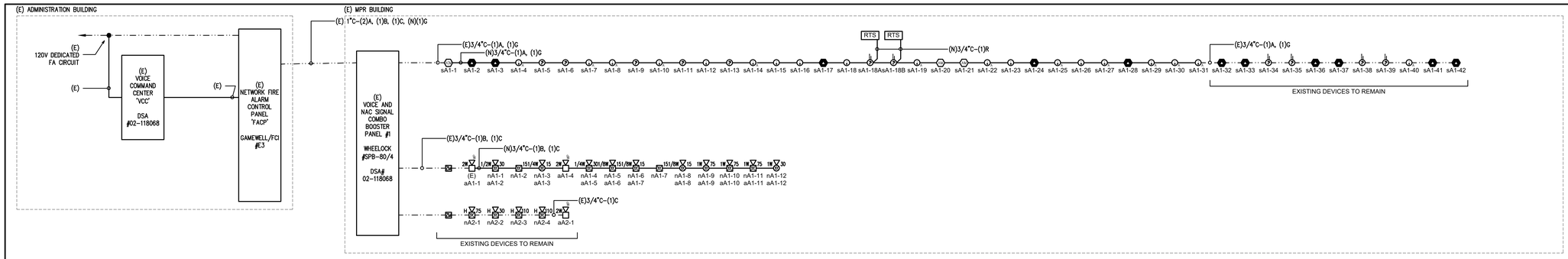
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LICENSED ARCHITECT ANTONIO J. AVILA No. C26235 REN. 10-31-24 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

	Designed By: SD	Copyright 2023 Darden Architects	
Scale: As indicated	Drawn By: EN		X/E201
Project Number: 2123	Checked By: SD		
Date: 03/31/2023	Reviewed By: SD		

3/6/2023 9:46:52 AM
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J1 Fire Alarm System Single Line Diagram

No Scale

BATTERY CALCULATION

F.A. Control Panel '(E) FACP'

POWER REQUIREMENTS

	CURRENT [A] SUPERVISORY	ALARM
EXISTING LOAD	0.3840	4.0490
REMOVED LOAD (5X CO DETECTOR)	-0.0028	-0.2110
24VDC Auxiliary (CO Sounder Bases)	0.0061	0.4642
24VDC Auxiliary (Beam Smoke Detectors)	0.0000	0.0000
TOTALS	0.3873	4.3022

BATTERY CAPACITY

SUPERVISORY POWER (24 HOURS)	= 24 Hr * .387A	=	9.295 AHr
ALARM POWER (15 MINUTES)	= 0.25 Hr * 4.3022A	=	1.076 AHr
	TOTAL POWER REQUIREMENT =		10.371 AHr
	MINIMUM BATTERY CAPACITY (includes 25% safety factor) =		13 AHr

VOLTAGE DROP CALCULATION

CO Sounder Base Circuit 'AUX1'

VD = Voltage Drop [V]
I = Current [A] (0.4642A)
K = 12.9 (Copper Constant)
L = Distance to Load [ft.] (800')
CM = Circular Mils (#12 AWG = 6530)
V = Voltage [V] (24VDC)

$VD = \frac{K * I * 2L}{CM} = \frac{12.9 * 0.4642 * 2 * 800}{6530} = 1.467\ V$

$VD\% = \frac{VD}{24} = 6.1\%$

BATTERY CALCULATION

NAC Expander 'BP-1'

POWER REQUIREMENTS

	CURRENT [A] SUPERVISORY	ALARM
EXISTING LOAD	0.0750	1.7040
Removed Load	0.0000	-0.8366
NAC Circuit n1	-	0.4020
TOTALS	0.0750	1.2694

BATTERY CAPACITY

SUPERVISORY POWER (24 HOURS)	= 24 Hr * 0.075A	=	1.8000 AHr
ALARM POWER (15 MINUTES)	= 0.25 Hr * 1.2694A	=	0.3174 AHr
	TOTAL POWER REQUIREMENT =		2.1174 AHr
	MINIMUM BATTERY CAPACITY (includes 25% safety factor) =		7 AHr

VOLTAGE DROP CALCULATION

NAC Circuit 'n1'

VD = Voltage Drop [V]
I = Current [A] (0.402A)
K = 12.9 (Copper Constant)
L = Distance to Load [ft.] (155')
CM = Circular Mils (#12 AWG = 6530)
V = Voltage [V] (24VDC)

$VD = \frac{K * I * 2L}{CM} = \frac{12.9 * 0.402 * 2 * 155'}{6530} = 0.246\ V$

$VD\% = \frac{VD}{24} = 1.0\%$

VOICE EVACUATION VOLTAGE DROP

Volt Drop Common Parameters

Volts 70.7 Volts
Wire Size 14 AWG
Wire Resistance 3.26 ohm/Kft

	INDOOR Wattage Tap						OUTDOOR Wattage Tap					CIRCUIT LENGTH		
Type												Total	Max	Actual
Wattage Tap	1/8 W	1/4 W	1/2W	1W	2W	4W	1/4W	1/2W	1W	2W	4W	8W	Watts	Length	Length
aA1	3	2	1	4					2				9.375	9690	155

A1 Fire Alarm System Calculations

No Scale

DSA File No.: *20-30*

DSA Application No.: *02-120517*

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120517 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

Agency Approval

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Consultant

THOMAS JEFFERSON MIDDLE SCHOOL KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA
Project

TYPICAL INFORMATION
FIRE ALARM SYSTEM - SINGLE LINE DIAGRAM AND CALCULATIONS
Drawing

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ANTONIO J. AVILA LICENSED ARCHITECT No. C26235 Exp. 10-31-23 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

	Designed By: SD	Copyright 2023 Darden Architects	
Scale: As indicated	Drawn By: EN		X/E202
Project Number: 2123	Checked By: SD		
Date: 03/31/2023	Reviewed By: SD		

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STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-ELC-E**

This document is used to demonstrate compliance with mandatory requirements in §130.5, for electrical systems in newly constructed nonresidential, high-rise residential and hotel/motel occupancies. Additions and alterations to electrical service systems in these occupancies will also use this document to demonstrate compliance per §141.0(a) or §141.0(b)2P for alterations..

Project Name:	Kitchen Remodel	**Report Page:**	**(Page 1 of 5)**
Project Address:	1407 Sunset Ave	**Date Prepared:**	9/19/2022

A. GENERAL INFORMATION

01 Project Location (city)	Madera	02 Occupancy Types Within Project:				
☐ Office	☐ Retail	☐ Warehouse	☐ Hotel/Motel	☐ School	☐ Support Areas	
☐ Parking Garage	☐ High-Rise Residential	☐ Relocatable	☐ Healthcare Facilities	☒ Other (write in)	See Table I	

B. PROJECT SCOPE

This table includes electrical systems that are within the scope of the permit application.

01	02	03	04	05
Electrical Service Designation/Description	Scope of Work[1]	Rating (kVA)	Utility Provided Metering System Exception to §130.5(a) [2]	System subject to CA Elec Code Article 517 Exception to §130.5(a)and (b)
DPC	New electrical service equipment and meter	166	☐	☐
06 Demand Response Controls	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections §120.2, §130.1 and §130.3 and compliance documents NRCC-MCH, NRCC-LTI and NRCC-LTS will indicate when demand response controls are required.			

[1] *FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c), no other requirements from 130.5 are required.*
[2] *Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.*

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

01		02		03		04	05
Service Electrical Metering §130.5(a) (See Table F)	AND	Separation for Monitoring §130.5(b) (See Table G)	AND	Voltage Drop §130.5(c) (See Table H)	AND	Controlled Receptacles §130.5(d) (See Table I)	
Yes	AND	Yes	AND	Yes	AND	Yes	COMPLIES

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
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STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-ELC-E**

Project Name:	Kitchen Remodel	**Report Page:**	**(Page 2 of 5)**
Project Address:	1407 Sunset Ave	**Date Prepared:**	9/19/2022

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

F. SERVICE ELECTRICAL METERING

This table includes new or replacement electrical service systems OR equipment to demonstrate compliance with §130.5(a)

01	02	03				04	05	
		Required Metering Capabilities per Table 130.5-A					Field Inspector	
Electrical Service Designation/Description	Rating (kVA)	Instantaneous Demand (kW)	Historical Peak Demand (kW)	Tracking kWh for user-defined period	kWh per rate period	Location of Requirements in Construction Documents	Pass	Fail
DPC	166	☐	☒	☒	☐	X/E103	☐	☐

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STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-ELC-E**

Project Name:	Kitchen Remodel	**Report Page:**	**(Page 3 of 5)**
Project Address:	1407 Sunset Ave	**Date Prepared:**	9/19/2022

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(b). Any load types that are not included in the service do not need to be shown.

01	02	03	04	05	
Load Type per Table 130.5-B [1]	Minimum Required Separation of Load per Table 130.5-B	Compliance Method[2]	Location of Requirements in Construction Documents	Field Inspector	
				Pass	Fail
DPC					
Lighting including exit, egress and exterior	All lighting in aggregate	Method 1	X/E104	☐	☐
HVAC systems and components	All HVAC in aggregate	Method 1	X/E104	☐	☐
Plug Loads and appliances less than 25kVA	All plug loads in aggregate Groups of plug loads exceeding 25 kVA connected load in an area less than 5000 sf	Method 1	X/E104	☐	☐
Lighting including exit, egress and exterior	All lighting in aggregate	Method 1	X/E104	☐	☐

** NOTES: If "Other*" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.*

[1] *FOOTNOTES: For each separate load type, up to 10% of the connected load may be of any type.*
[2] *Method 1: Switchboards/ motor control centers/ panelboard loads disaggregated for each load type.*
Method 2: Switchboards/ motor control centers/ panelboard supply other distribution equipment with loads disaggregated for each load type.
Method 3: Branch circuits serve load types individually and provisions for adding future branch circuit monitoring.
Method 4: Complete metering system measures and reports loads by type.
See Chapter 8 of the Nonresidential Compliance Manual for more detail on Compliance Methods.

H. VOLTAGE DROP

This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with §130.5(c). For alterations, only the altered circuits must demonstrate compliance per §141.0(b)2Pii

01	02			03	04	05	
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method			Location of Voltage Drop Calculations[1]	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector	
						Pass	Fail
DPC	☒ Voltage drop less than 5%	☐	Permitted by CA Elec Code (Exception to 130.5(c))*	Attached	X/E103	☐	☐

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
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STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-ELC-E**

Project Name:	Kitchen Remodel	**Report Page:**	**(Page 4 of 5)**
Project Address:	1407 Sunset Ave	**Date Prepared:**	9/19/2022

H. VOLTAGE DROP

** NOTES: If "Permitted by CA Elec Code *" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.*

[1] *FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".*

I. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(d). Both controlled and uncontrolled receptacles must be provided in office areas, lobbies, conference rooms, kitchen areas in office spaces, copy rooms and hotel/motel guest rooms.

01	02	03	04	05	06	
Room name or Description	Location/ Type of Controlled Receptacles	Shut-Off Controls	Permanent Durable Marking Will be Used	Location of Requirements in Construction Documents	Field Inspector	
					Pass	Fail
DPC	Within 6ft of uncontrolled receptacle	Occupancy Sensor	☒	A/E201	☐	☐

** NOTES: If "Other*" is selected under Shut-Off Controls above, please indicate how compliance has been achieved in the space provided below.*

J. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCI-ELC-01-E - Must be submitted for all buildings	☐	☐

K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to electrical power distribution requirements.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
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STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-ELC-E**

Project Name:	Kitchen Remodel	**Report Page:**	**(Page 5 of 5)**
Project Address:	1407 Sunset Ave	**Date Prepared:**	9/19/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: C. Scott Davidson, PE	Documentation Author Signature: C. Scott Davidson
Company: Hardin-Davidson Engineering	Signature Date: 2022-09-19
Address: 356 Pollasky Ave, Ste 200	CEA/ HERS Certification Identification (if applicable): E17850
City/State/Zip: Clovis CA 93612	Phone: 559.323.4995

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

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

Responsible Designer Name: C. Scott Davidson	Responsible Designer Signature: C. Scott Davidson
Company: Hardin-Davidson Engineering	Date Signed: 2022-09-19
Address: 356 Pollasky Ave	License: E17850
City/State/Zip: Clovis CA 93612	Phone: 559-323-4995

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
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STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-LTI-E**

Project Name:	Kitchen Remodel	**Report Page:**	**(Page 1 of 8)**
Project Address:	1407 Sunset Ave	**Date Prepared:**	9/19/2022

A. GENERAL INFORMATION

01	Project Location (city)	Madera	04	Total Conditioned Floor Area (ft²)	2,683
02	Climate Zone	13	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

☐ Office	☐ Retail	☐ Warehouse	☐ Hotel/Motel	☒ School	☐ Support Areas		
☐ Parking Garage	☐ High-Rise Residential	☐ Relocatable	☐ Healthcare	☐ Other (Write in)			

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☐ New Lighting System				
☐ New Lighting System - Parking Garage				
☒ Altered Lighting System	Complete Building Method	2683	Complete Building Method	0
Total Area of Work (ft²)	2683		0	

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-09-19 20:34:43

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-LTI-E**

Project Name:	Kitchen Remodel	**Report Page:**	**(Page 2 of 8)**
Project Address:	1407 Sunset Ave	**Date Prepared:**	9/19/2022

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1	Allowed Lighting Power per §140.6(b) (Watts)					Adjusted Lighting Power per §140.6(a) (Watts)					Compliance Results
	01	02	03	04	05	06	07		08		09
	Complete Building §140.6(c)1 (See Table I)	Area Category §140.6(c)2 (See Table I)	Area Category Additional §140.6(c)2G (+) (See Table J)	Tailored §140.6(c)3 (+) (See Table K)	**Total Allowed** (Watts)	Total Designed (Watts) (See Table F)	Adjustments PAF Lighting Control Credits §140.6(a)2 (-) (See Table P)		**Total Adjusted** (Watts) *Includes Adjustments		**05 must be >= 08 §140.6**
Conditioned	1,744				1,744	1,240.5	0	=	1240.5		COMPLIES
Unconditioned											
Controls Compliance (See Table H for Details)											COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)											

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all permanent designed lighting and all portable lighting in offices.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)3	Design Watts	Field Inspector	
									Pass	Fail
A1	50W LED	No	No	50	Mfr. Spec	6	No	300	☐	☐
A2	38W LED	No	No	38	Mfr. Spec	6	No	228	☐	☐

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
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STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-LTI-E**

Project Name:	Kitchen Remodel	**Report Page:**	**(Page 3 of 8)**
Project Address:	1407 Sunset Ave	**Date Prepared:**	9/19/2022

F. INDOOR LIGHTING FIXTURE SCHEDULE

B	30W LED	No	No	30	Mfr. Spec	1	No	30	☐	☐
C	35W LED	No	No	35	Mfr. Spec	8	No	280	☐	☐
D	17.5W LED	No	No	17.5	Mfr. Spec	23	No	402.5	☐	☐
					Total Designed Watts: CONDITIONED SPACES			1,240.5		

[1] *FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4B is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*
[2] *Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

*This table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Building Level Controls

01	02	03	
		Field Inspector	
Mandatory Demand Response §110.12(c)	Shut-off controls §130.1(c)	Pass	Fail
Required > 10,000 SF	See Area/Space Level Controls	☐	☐

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
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STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-LTI-E**

Project Name:	Kitchen Remodel	**Report Page:**	**(Page 4 of 8)**
Project Address:	1407 Sunset Ave	**Date Prepared:**	9/19/2022

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Sky lit Daylighting§ §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field Inspector	
								Pass	Fail
100	All Others Buildings	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
101	All Others Buildings	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	Included	No	☐	☐
102	All Others Buildings	Manual ON/OFF	Dimmer	Occupancy Sensor	Exempt*	Exempt*	No	☐	☐
107	All Others Buildings	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	Included	No	☐	☐
108	All Others Buildings	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
109	All Others Buildings	Manual ON/OFF	Dimmer	Occupancy Sensor	Exempt*	Exempt*	No	☐	☐
110	All Others Buildings	Manual ON/OFF	Exempt*	Occupancy Sensor	N/A	N/A	No	☐	☐
111	All Others Buildings	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
112	All Others Buildings	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐

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DSA File No.: *20-30*

DSA Application No.: *02-120517*

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APP: 02-120517 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

Agency Approval

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Consultant

REGISTERED PROFESSIONAL ENGINEER — C. SCOTT DAVIDSON — E17850 — ELECTRICAL — STATE OF CALIFORNIA

THOMAS JEFFERSON MIDDLE SCHOOL KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA
Project

TYPICAL INFORMATION
TITLE 24 COMPLIANCE FORMS - INDOOR LIGHTING
Drawing

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LICENSED ARCHITECT — ANTONIO J. AVILA — No. C26235 — Reg. 10-31-23 — STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

	Designed By: SD	Copyright 2023 Darden Architects
Scale: As indicated	Drawn By: EN	*X/E301*
Project Number: 2123	Checked By: SD	
Date: 03/31/2023	Reviewed By: SD	

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STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Kitchen Remodel	**Report Page:**	**(Page 5 of 8)**
Project Address:	1407 Sunset Ave	**Date Prepared:**	9/19/2022

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved. 13

EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2 — Plan Sheet Showing Daylit Zones:

102	EXCEPTION 3 to Section 130.1(d)
109	EXCEPTION 3 to Section 130.1(d)
110	EXCEPTION 1 to Section 130.1(b)

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
Whole Building	School Building	0.65	2,683	1,744	No	No
		TOTALS:	2,683	1,744	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE
This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
This section does not apply to this project.

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M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS
This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))
This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS
This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS
This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)
This section does not apply to this project.

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Project Name:	Kitchen Remodel	**Report Page:**	**(Page 7 of 8)**
Project Address:	1407 Sunset Ave	**Date Prepared:**	9/19/2022

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector Pass	Field Inspector Fail
●	○	NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐
○	●	NRCI-LTI-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room or a theater to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-05-E- Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-06-E- Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐	☐

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Yes	No	Form/Title	Field Inspector Pass	Field Inspector Fail
●	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐
●	○	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐	☐
●	○	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐	☐
○	●	NRCA-LTI-05-A. - Must be submitted for institutional tuning power adjustment factor (PAF)	☐	☐

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Project Name:	Kitchen Remodel	**Report Page:**	**(Page 8 of 8)**
Project Address:	1407 Sunset Ave	**Date Prepared:**	9/19/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: C. Scott Davidson, PE	Documentation Author Signature: C. Scott Davidson
Company: Hardin-Davidson Engineering	Signature Date: 2022-09-19
Address: 356 Pollasky Ave, Ste 200	CEA/ HERS Certification Identification (if applicable): E17850
City/State/Zip: Clovis CA 93612	Phone: 559.323.4995

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

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

Responsible Designer Name: C. Scott Davidson	Responsible Designer Signature: C. Scott Davidson
Company: Hardin-Davidson Engineering	Date Signed: 2022-09-19
Address: 356 Pollasky Ave	License: E17850
City/State/Zip: Clovis CA 93612	Phone: 559-323-4995

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

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DSA File No.: *20-30*

DSA Application No.: *02-120517*

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DATE: 04/25/2023

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REGISTERED PROFESSIONAL ENGINEER C. SCOTT DAVIDSON E17850 ELECTRICAL STATE OF CALIFORNIA
Consultant

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TYPICAL INFORMATION
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Architect

No.	Revision/Submission	Date

Revision

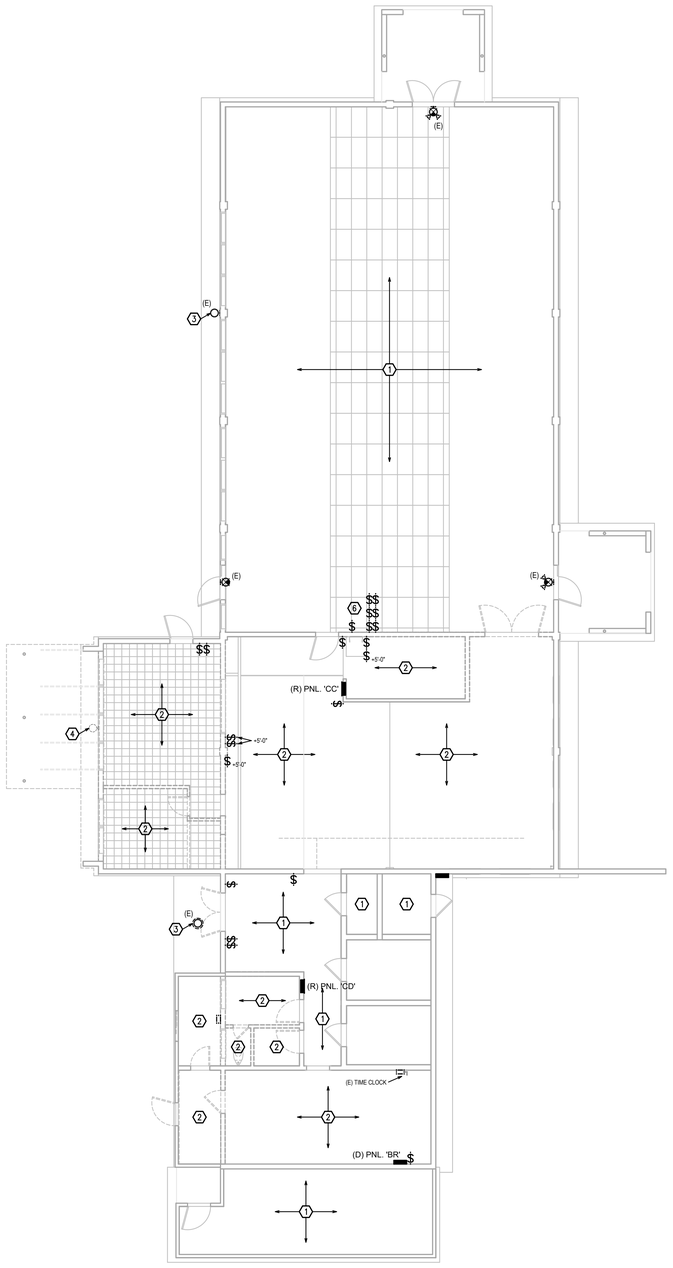
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Drawn By: EN
Checked By: SD
Reviewed By: SD

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Scale: As indicated
Project Number: 2123
Date: 03/31/2023

X/E302

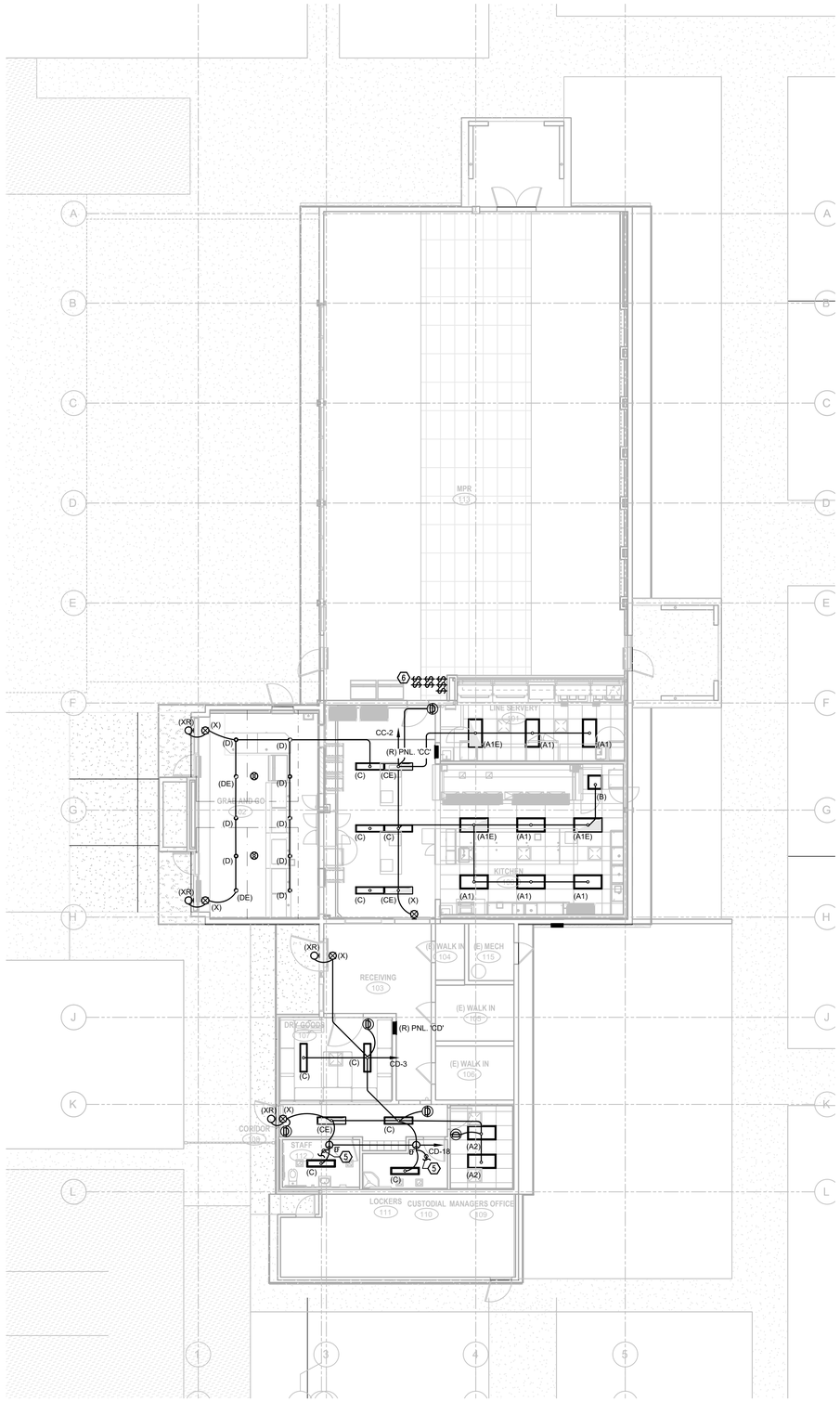
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N

A1 Demolition Lighting Plan

1/8" = 1'-0"



N

A9 Lighting Plan

1/8" = 1'-0"

DSA File No.:
20-30

DSA Application No.:
02-120517

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KEYNOTES

1. EXISTING LIGHTING SYSTEMS TO REMAIN UNLESS OTHERWISE NOTED.
2. COMPLETELY REMOVE EXISTING INTERIOR LIGHTING SYSTEMS AT THIS ROOM. TO INCLUDE LIGHT FIXTURES, CONTROLS, CONDUITS, WIRING, ETC. REROUTE AND RECONNECT ANY FEED THROUGH CIRCUITING AND POINTS OF CONNECTION TO UNSWITCHED POWER SERVING EXISTING LIGHTING SYSTEMS TO REMAIN.
3. EXISTING EXTERIOR LIGHTING SYSTEM TO REMAIN UNLESS OTHERWISE NOTED.
4. REMOVE EXISTING EXTERIOR LIGHT FIXTURE. REMOVE EXISTING CONDUIT AND WIRING TO LIGHT. REROUTE AND RECONNECT ANY FEED THROUGH CONDUIT AND WIRING SERVING EXISTING LIGHT FIXTURE TO REMAIN.
5. CONNECT TO EXHAUST FAN ON ROOF. SEE SHEET A/E203.
6. DISCONNECT EXISTING SWITCHES AND LOCATE IN NEW WALL AT LINE SERVERY. PROVIDE ALL REQUIRED CONDUCTORS, BOXES, SWITCHES, ETC. PROVIDE NEW SWITCHES TO MATCH EXISTING.

NOTE TO CONTRACTOR:

EXISTING AS-BUILT RECORD DRAWINGS ARE NOT COMPLETE. A BEST EFFORT HAS BEEN TAKEN TO DOCUMENT THE EXISTING CONDITIONS. NOT ALL CONDITIONS, EQUIPMENT, ETC. MAY BE SHOWN ON THE DRAWINGS. ANY ITEMS NOT SHOWN TO BE REMOVED SHALL BE RECONNECTED TO THE CLOSEST ELECTRICAL PANEL. PROVIDE ANY REQUIRED FEED THROUGH WIRING.

THE CONTRACTOR SHALL VISIT THE SITE AND MAKE THEMSELVES FAMILIAR WITH THE EXISTING CONDITIONS AND TAKE THOSE INTO ACCOUNT WHEN PROVIDING A BID FOR THE PERFORMANCE OF THE WORK SHOWN IN THE DRAWINGS.

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REGISTERED PROFESSIONAL ENGINEER C. SCOTT DAVIDSON E17850 ELECTRICAL STATE OF CALIFORNIA

Consultant

THOMAS JEFFERSON MIDDLE SCHOOL KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA

Project

BUILDING C
DEMOLITION LIGHTING PLAN, LIGHTING PLAN

Drawing

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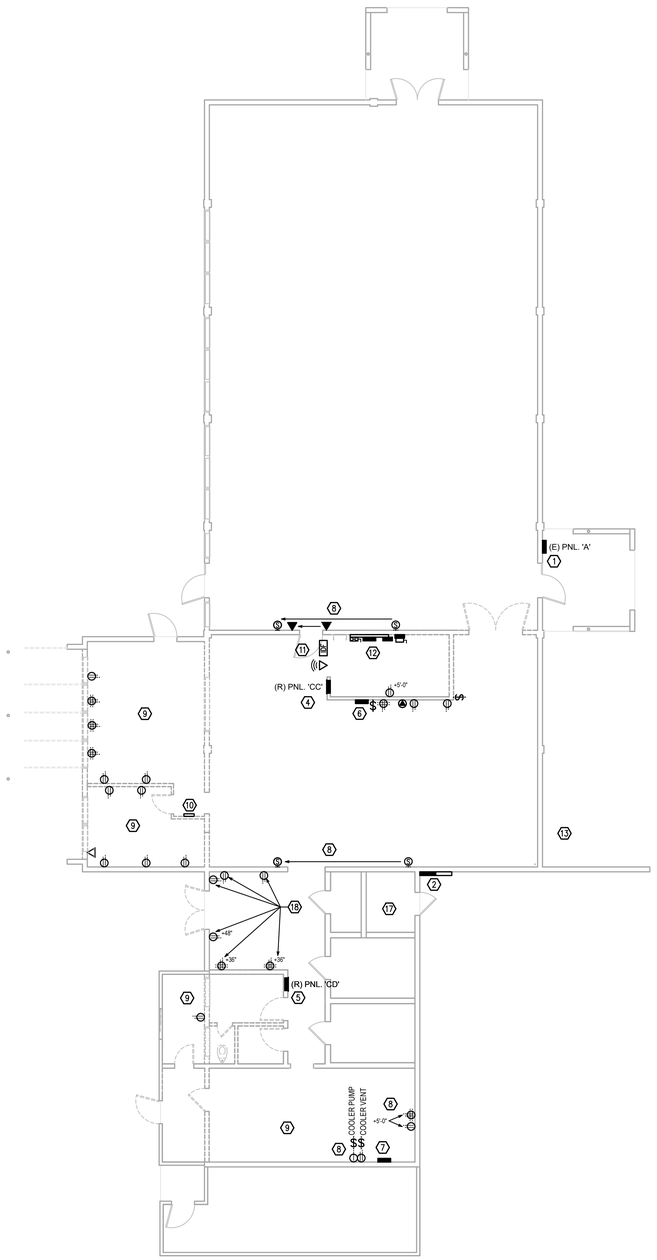
Architect

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Revision

	Designed By: SD	Copyright 2023 Darden Architects
Scale: As indicated	Drawn By: EN	*C/E101*
Project Number: 2123	Checked By: SD	
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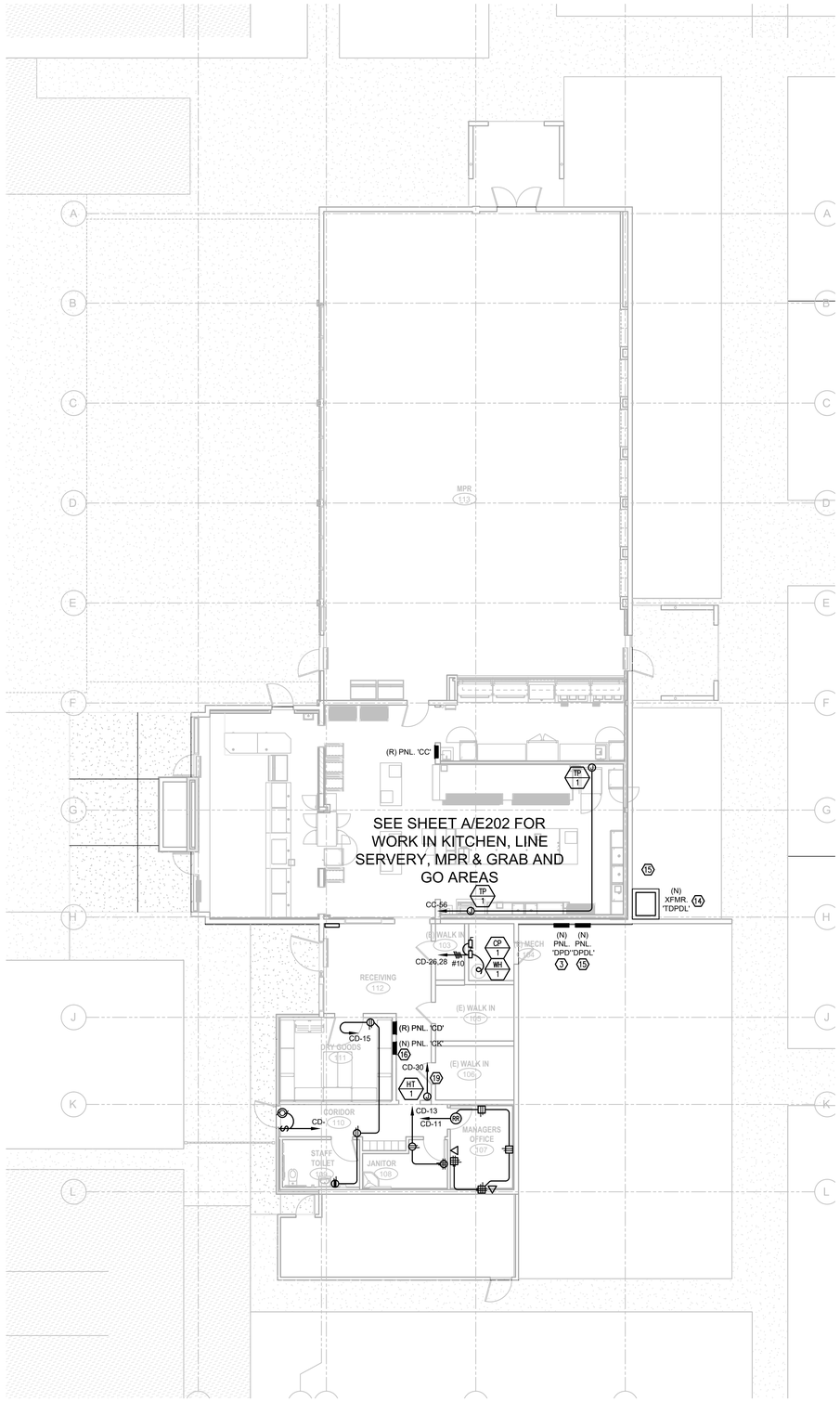
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N

A1 — Demolition Electrical Plan

1/8" = 1'-0"



N

A9 — Power and Datacom Plan

1/8" = 1'-0"

DSA File No.: *20-30*

DSA Application No.: *02-120517*

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KEYNOTES

1. (E) PANEL 'A' INSTALLED UNDER DSA #02-118068. VERIFY EXACT LOCATION IN FIELD. SHOWN FOR REFERENCE.
2. (E) PANEL. VERIFY EXISTING LOADS. IF ALL LOADS HAVE BEEN TRANSFERED FROM PANEL, REMOVE PANEL AND PATCH ANY HOLES PER ARCHITECTURAL SPECIFICATIONS.
3. PROVIDE NEW PANEL 'DPD'. 200A, 277/480V, 3PH, 4W, NEMA 3R.
4. REMOVE EXISTING PANEL 'CC' AND REPLACE WITH NEW PANEL 'CC' PER PANEL SCHEDULE. SEE DETAIL LS/E/103. PROVIDE MANUFACTURER'S TRIM KIT IF WALL DEPTH IS INSUFFICIENT.
5. REMOVE EXISTING PANEL 'CD' AND REPLACE WITH NEW PANEL 'CD' PER PANEL SCHEDULE. SEE DETAIL LS/E/103. PROVIDE MANUFACTURER'S TRIM KIT IF WALL DEPTH IS INSUFFICIENT.
6. EXISTING PANEL LOCATED UNDER HOOD TO BE DEMOLISHED. RECONNECT ANY LOADS NOT REMOVED TO PANEL 'CC'. EXTEND THE CONDUIT AND CONDUCTORS AS REQUIRED WITH LIKE TYPE AND GAUGE.
7. EXISTING PANEL LOCATED IN BACK ROOM TO BE DEMOLISHED. RECONNECT ANY LOADS NOT REMOVED TO PANEL 'CD'. EXTEND THE CONDUIT AND CONDUCTORS AS REQUIRED WITH LIKE TYPE AND GAUGE.
8. REMOVE AND RELOCATE EXISTING DEVICE AS SHOWN. COORDINATE WITH DISTRICT REPRESENTATIVE. WHERE POSSIBLE CONDUIT AND WIRING SHALL BE INSTALLED CONCEALED IN WALLS.
9. COMPLETELY REMOVE EXISTING POWER, DATA AND LOW VOLTAGE AT THIS ROOM. TO INCLUDE RECEPTACLE, TELEPHONE, DATA, SECURITY DEVICES, SURFACE CONDUITS, WIRING, ETC. REROUTE AND RECONNECT ANY FEED THROUGH CIRCUITING AND POINTS OF CONNECTION. NOT ALL DEVICES, EQUIPMENT, ETC. MAY BE SHOWN ON THESE PLANS. CONTRACTOR SHALL OBSERVE THE EXISTING CONDITIONS PRIOR TO BIDDING AND MAKE THE NECESSARY ALLOWANCES.
10. EXISTING SECURITY CONTROL PANEL TO BE RELOCATED BY SECURITY COMPANY. COORDINATE WITH SECURITY COMPANY AND DISTRICT REPRESENTATIVE AS REQUIRED. PROVIDE DEDICATED 20A, 120V CIRCUIT AT NEW CONTROL PANEL LOCATION.
11. EXISTING IDF AND WIRELESS ACCESS POINT TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION. IF REQUIRED, REMOVE ACCESS POINT AND DELIVER TO DISTRICT REPRESENTATIVE. REINSTALL ACCESS POINT AFTER WORK.
12. DEMO EXISTING ELECTRICAL PANELS, DISCONNECT SWITCHES, ETC. IN MEZZANINE. RECONNECT REMAINING FEED-THROUGH WIRING TO NEW PANELS AS REQUIRED.
13. DISCONNECT EXISTING AIR COMPRESSOR AND REMOVE WIRE, ACCESSIBLE CONDUIT, ETC. BACK TO SOURCE.
14. INSTALL NEW TRANSFORMER 'TDPDL'. MOUNT TRANSFORMER PER DETAIL GS/X/E103. CONNECT PER DETAIL G1/X/E103.
15. PROVIDE 400A, 480V, 3 POLE, NON-FUSED NEMA 3R DISCONNECT SWITCH ON TRANSFORMER PRIMARY. PROVIDE FEEDERS PER SINGLE LINE DIAGRAM. MOUNT SWITCH PER DETAIL L15/X/E103.
16. INSTALL NEW PANEL 'CK' PER PANEL SCHEDULE IN DOORWAY INFILL. SEE DETAIL LS/X/E103.
17. DISCONNECT EXISTING PLUMBING EQUIPMENT TO BE REMOVED. SEE PLUMBING DEMOLITION PLAN, SHEET A/P100.
18. REPLACE EXISTING 120V RECEPTACLES WITH NEW 20A, 120V RECEPTACLES PER SYMBOL SCHEDULE. PROVIDE NEW FACE PLATE. IF RECEPTACLE IS ABOVE MAXIMUM HEIGHT OF 48" TO THE TOP, LOWER RECEPTACLE. IF EXISTING RECEPTACLE IS BELOW 15" TO THE BOTTOM RAISE RECEPTACLE.
19. CONNECT HEAT TRACE SYSTEM. SEE PLUMBING PLANS, SHEET A/P201. COORDINATE WITH PLUMBING AND DISTRICT AS TO LOCATION OF CONTROLLER. PROVIDE ALL REQUIRED CONNECTIONS.

NOTE TO CONTRACTOR:

EXISTING AS-BUILT RECORD DRAWINGS ARE NOT COMPLETE. A BEST EFFORT HAS BEEN TAKEN TO DOCUMENT THE EXISTING CONDITIONS. NOT ALL CONDITIONS, EQUIPMENT, ETC. MAY BE SHOWN ON THE DRAWINGS. ANY ITEMS NOT SHOWN TO BE REMOVED SHALL BE RECONNECTED TO THE CLOSEST ELECTRICAL PANEL. PROVIDE ANY REQUIRED FEED THROUGH WIRING.

THE CONTRACTOR SHALL VISIT THE SITE AND MAKE THEMSELVES FAMILIAR WITH THE EXISTING CONDITIONS AND TAKE THOSE INTO ACCOUNT WHEN PROVIDING A BID FOR THE PERFORMANCE OF THE WORK SHOWN IN THE DRAWINGS.

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559.323.4995 tel • 559.323.4928 fax
www.hardin-davidson.com

REGISTERED PROFESSIONAL ENGINEER C. SCOTT DAVIDSON E17850 ELECTRICAL STATE OF CALIFORNIA

Consultant

THOMAS JEFFERSON MIDDLE SCHOOL KITCHEN REMODEL
MADDUSD
MADERA, CA

Project

BUILDING C
DEMOLITION ELECTRICAL PLAN, POWER AND DATACOM PLAN

Drawing

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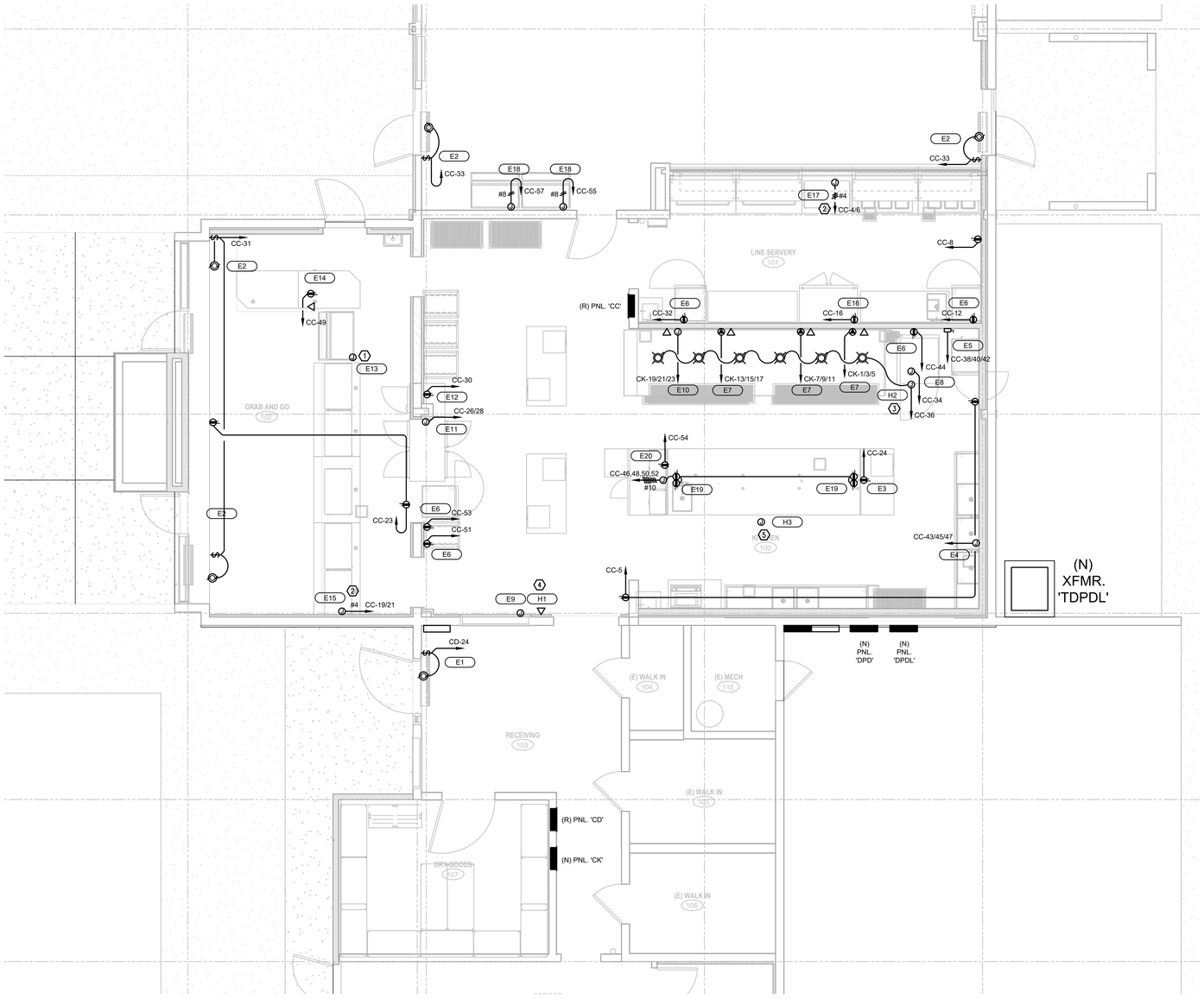
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KEYNOTES

1. PROVIDE J-BOX AT SERVING COUNTER CONNECT TO UNIT CONNECTION INTERCONNECT WITH SERVING LINE LOAD CENTER (E15). SEE FOOD SERVICE DRAWINGS FOR MORE INFORMATION.
2. PROVIDE CONNECTION FOR FOOD SERVICE LINE EQUIPMENT PANEL. COORDINATE EXACT LOCATION WITH EQUIPMENT PROVIDER AND FOOD SERVICE DRAWINGS.
3. CONNECT HOOD CONTROL SYSTEM. COORDINATE WITH ALL FOOD SERVICE DRAWINGS, HOOD FIRE SUPPRESSION SYSTEM ("ANSUL") AS REQUIRED. PROVIDE ALL REQUIRED CONNECTIONS, WHETHER SHOWN ON THE ELECTRICAL AND/OR FOOD SERVICE DRAWINGS.
4. HOOD TOUCH SCREEN USER INTERFACE. MOUNT AT +48" TO THE TOP. CONNECT AS REQUIRED. SEE FOOD SERVICE DRAWINGS.
5. ENERGY MANAGEMENT SYSTEM DCV-2111 ROOM SENSOR. CONNECT AS REQUIRED. SEE FOOD SERVICE DRAWINGS.

(XXX) SEE FOOD SERVICE SHEET FS3.2 FOR EQUIPMENT DESIGNATION AND ELECTRICAL REQUIREMENTS. PROVIDE ALL REQUIRED CONNECTIONS.

NOTE TO CONTRACTOR:

EXISTING AS-BUILT RECORD DRAWINGS ARE NOT COMPLETE. A BEST EFFORT HAS BEEN TAKEN TO DOCUMENT THE EXISTING CONDITIONS. NOT ALL CONDITIONS, EQUIPMENT, ETC. MAY BE SHOWN ON THE DRAWINGS. ANY ITEMS NOT SHOWN TO BE REMOVED SHALL BE RECONNECTED TO THE CLOSEST ELECTRICAL PANEL. PROVIDE ANY REQUIRED FEED THROUGH WIRING.

THE CONTRACTOR SHALL VISIT THE SITE AND MAKE THEMSELVES FAMILIAR WITH THE EXISTING CONDITIONS AND TAKE THOSE INTO ACCOUNT WHEN PROVIDING A BID FOR THE PERFORMANCE OF THE WORK SHOWN IN THE DRAWINGS.

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Architect

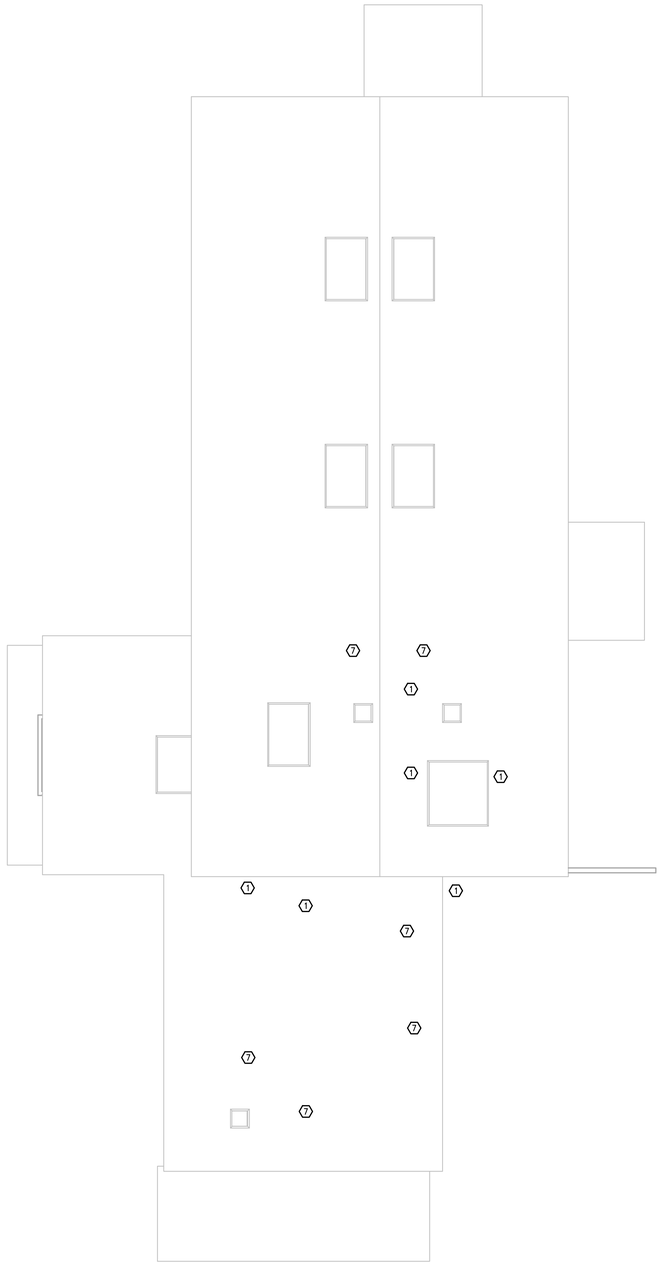
No.	Revision/Submission	Date

Revision

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Project Number: 2123	Checked By: SD		
Date: 03/31/2023	Reviewed By: SD		

A1
1/4" = 1'-0"
Enlarged Power Plan

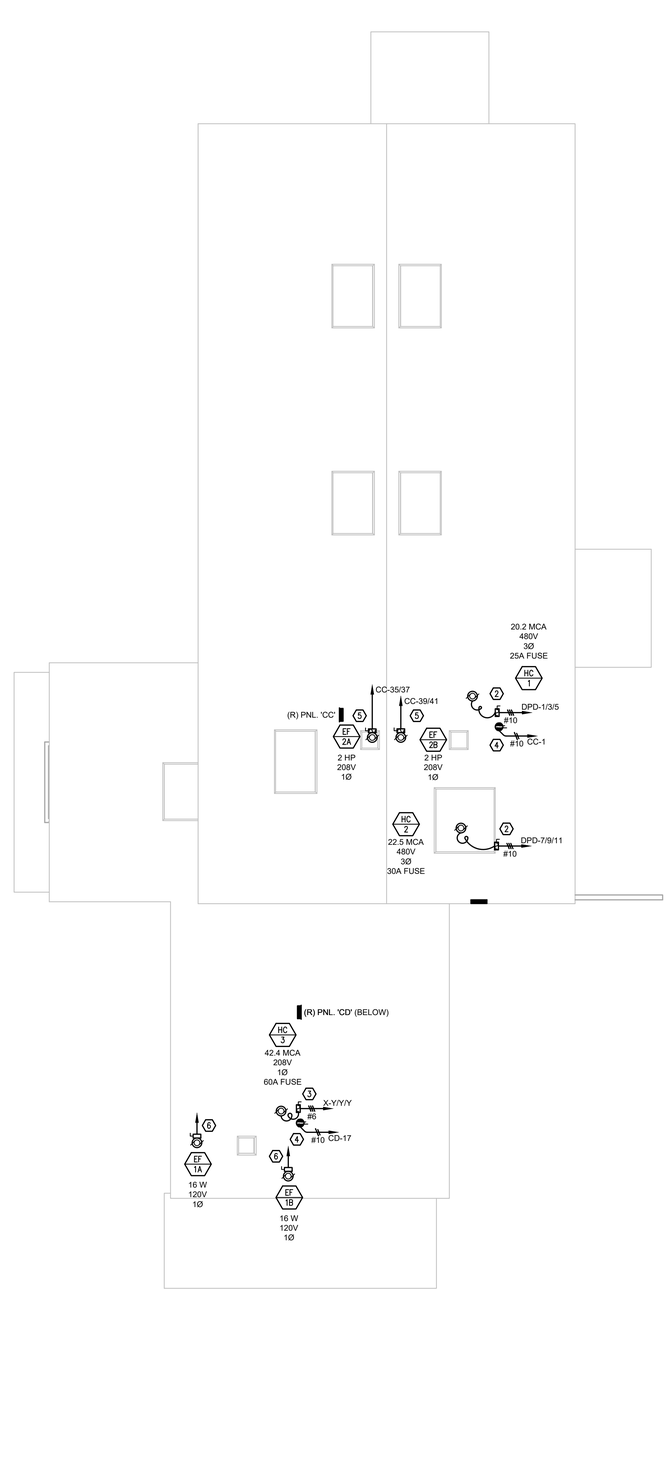
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A1

Roof Demolition Electrical Plan

1/8" = 1'-0"



A9

Roof Electrical Plan

1/8" = 1'-0"

DSA File No.:
20-30

DSA Application No.:
02-120517

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APP: 02-120517 INC:
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DATE: 04/25/2023

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KEYNOTES ⬡

1. DISCONNECT EXISTING ROOF MOUNTED MECHANICAL EQUIPMENT. REMOVE EXISTING EXPOSED WIRING, CONDUIT, ETC. BACK TO SOURCE. RECONNECT ANY EXISTING FEED-THROUGH WIRING IF REQUIRED. SEE A1/M/M/A301.
2. CONNECT NEW HC UNIT WITH POWERED EXHAUST. PROVIDE 3#10CU, 1#10CU GRD. XHHW-2 CONDUCTORS. PROVIDE AND INSTALL NEW 30A, 480V, 3 POLE, NEMA 3R FUSED DISCONNECT SWITCH (FUSES PER MANUFACTURER REQUIREMENTS). HC AND POWERED EXHAUST ARE POWERED FROM THE SAME CIRCUIT. MOUNT DISCONNECT PER DETAIL L10/X/E103.
3. CONNECT NEW HC UNIT. PROVIDE 3#6CU, 1#8CU GRD. XHHW-2 CONDUCTORS. PROVIDE AND INSTALL NEW 60A, 208V, 3 POLE, NEMA 3R FUSED DISCONNECT SWITCH (FUSES PER MANUFACTURER REQUIREMENTS). MOUNT DISCONNECT PER DETAIL L10/X/E103.
4. PROVIDE NEW 20A, 120V RECEPTACLE WITH NEW 20A, 120V, WEATHER RESISTANT RECEPTACLE WITH WEATHER PROOF WHILE-IN-USE COVER IN EXISTING LOCATION. VERIFY EXACT LOCATION IN FIELD. REPLACE & PROVIDE 2#10, 1#10CU GRD. XHHW-2 CONDUCTORS.
5. CONNECT NEW EXHAUST FAN. PROVIDE 2#12CU, 1#12CU GRD. XHHW-2 CONDUCTORS. PROVIDE AND INSTALL NEW 30A, 208V, 2 POLE, NEMA 3R FUSED DISCONNECT SWITCH (FUSES PER MANUFACTURER REQUIREMENTS). MOUNT DISCONNECT PER DETAIL L10/X/E103. CONNECT TO VFD AS SPECIFIED BY EXHAUST FAN SPECIFIER. INTEGRATE WITH KITCHEN HOOD SYSTEM AS REQUIRED. SEE SHEET FS5.3.
6. CONNECT EXHAUST FAN TO RELAY AT SWITCH IN ROOM SERVED BY E.F. SEE SHEET A/E101.
7. EXISTING ROOF MOUNTED EQUIPMENT TO REMAIN. SEE A1/M/M/A301.

NOTE TO CONTRACTOR:

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THE CONTRACTOR SHALL VISIT THE SITE AND MAKE THEMSELVES FAMILIAR WITH THE EXISTING CONDITIONS AND TAKE THOSE INTO ACCOUNT WHEN PROVIDING A BID FOR THE PERFORMANCE OF THE WORK SHOWN IN THE DRAWINGS.

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MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA

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LICENSED ARCHITECT
GREGORY J. AVILA
No. C26235
Exp. 10-31-24
STATE OF CALIFORNIA

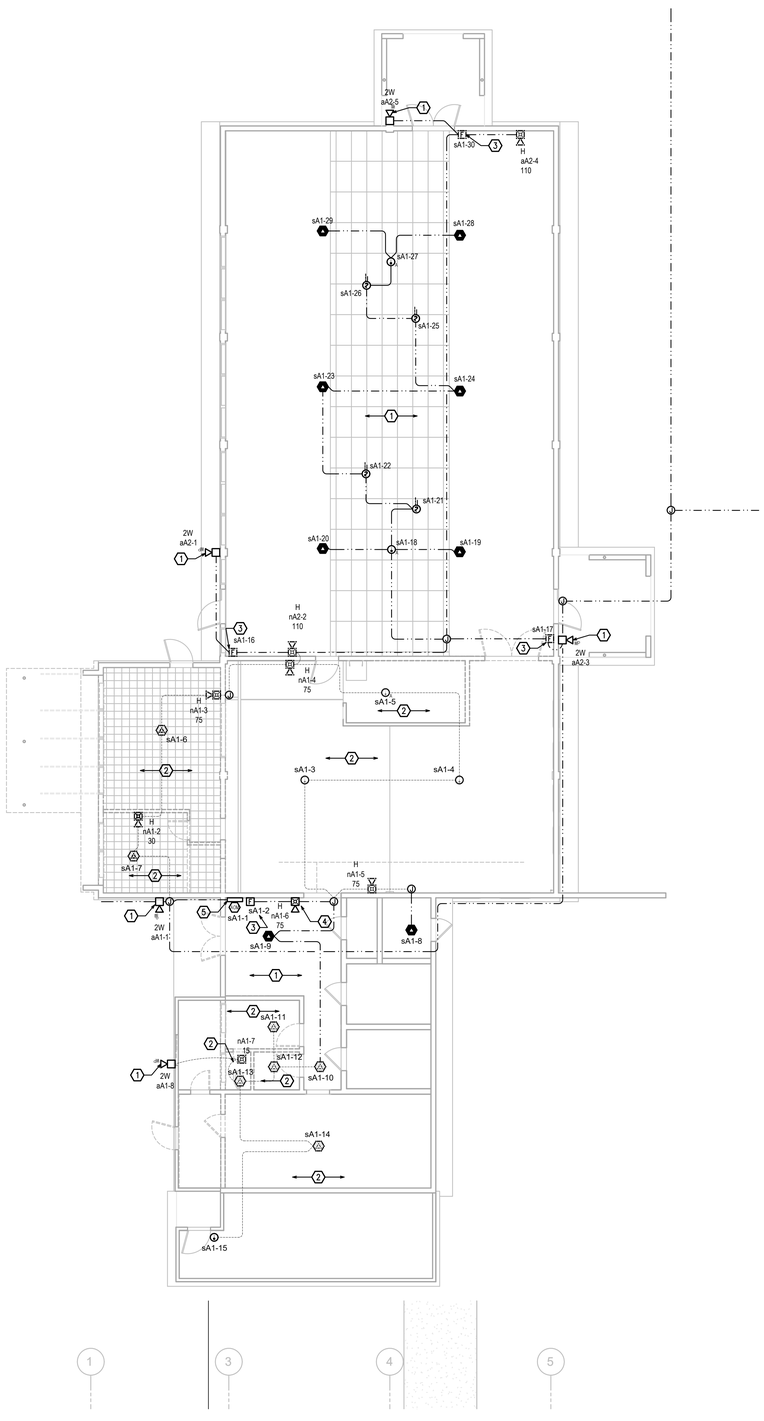
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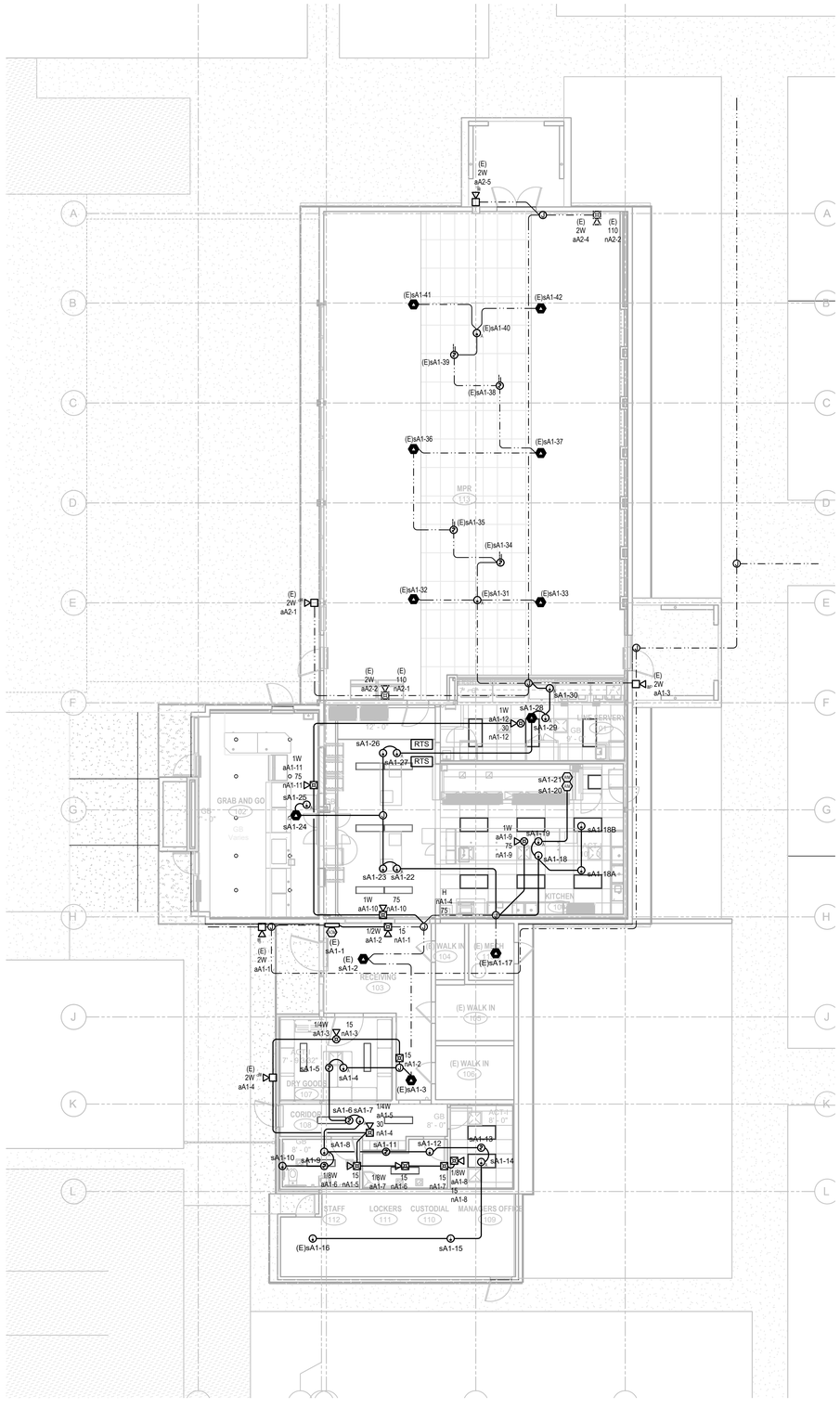
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Revision

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A1	Demolition Fire Alarm Plan	A9	Fire Alarm Plan
1/8" = 1'-0"		1/8" = 1'-0"	

DSA File No.:
20-30

DSA Application No.:
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KEYNOTES

1. EXISTING FIRE ALARM SYSTEMS TO REMAIN UNLESS OTHERWISE NOTED.
2. COMPLETELY REMOVE EXISTING FIRE ALARM SYSTEMS AT THIS ROOM. TO INCLUDE DEVICES, CONDUITS, WIRING, ETC. REROUTE AND RECONNECT ANY FEED THROUGH CIRCUITING AND POINTS OF CONNECTION TO EXISTING DEVICESTO REMAIN.
3. REMOVE EXISTING MANUAL PULL STATION. REROUTE AND RECONNECT ANY FEED THROUGH CIRCUITING AND POINTS OF CONNECTION TO EXISTING DEVICES TO REMAIN.
4. REMOVE EXISTING DEVICE. REROUTE AND RECONNECT ANY FEED THROUGH CIRCUITING AND POINTS OF CONNECTION TO EXISTING DEVICES TO REMAIN.
5. EXISTING BOOSTER AND AMPLIFIER TO REMAIN. TO BE INSTALLED UNDER DSA #02-118068.

NOTE TO CONTRACTOR:

THE EXISTING CONDITIONS SHOWN IN THE DEMOLITION PLAN ARE BASED ON AVAILABLE AS-BUILT DOCUMENTATION AS WELL AS DSA APPROVED PLANS (SEE APPLICATION #02-118068) OF WORK THAT HAS NOT BEEN COMPLETED. THE CONTRACTOR SHALL VERIFY ALL LOCATIONS AND CONDITIONS PRIOR TO BIDDING AND WORK COMMENCING. THE DEVICE ADDRESSING IS REPRESENTATIVE ONLY AND THE CONTRACTOR SHALL COORDINATE ALL EXISTING AND NEW DEVICE ADDRESSING TO INTEGRATE WITH THE EXISTING CAMPUS-WIDE FIRE ALARM SYSTEM. THE CONTRACTOR SHALL PROVIDE ALL NEEDED MATERIALS, INCLUDING SOFTWARE, FIRMWARE, ETC. AND LABOR FOR A FULLY-FUNCTIONING SYSTEM.

CONDUITS ARE SHOWN DIAGRAMMATICALLY. EXISTING CONDUIT ROUTINGS MAY NOT EXACTLY PORTRAY THE EXISTING CONDITIONS. THE CONTRACTOR SHALL MATCH ANY EXISTING SURFACE WIREWAY FOR SIZE AND TYPE IN THE SAME ROOM.

DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER OF RECORD.

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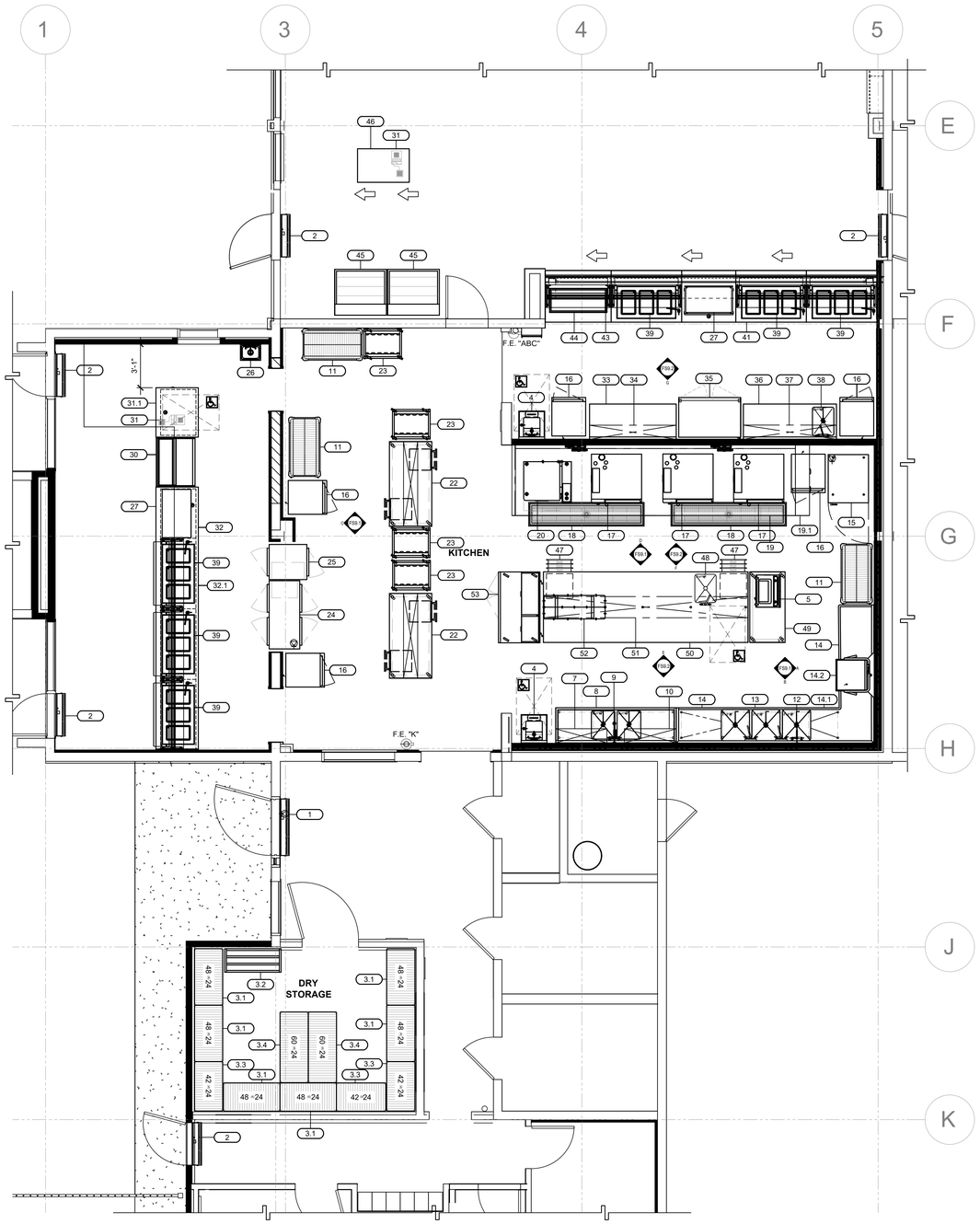
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FOODSERVICE EQUIPMENT FLOOR PLAN

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

1 / FS1.1

APPLICABLE CODE: 2019 CBC 02/05/2020 REVISED: 02/14/2020

FOODSERVICE EQUIPMENT COMPONENT ANCHORAGE NOTE

ALL FOODSERVICE COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THEN 400 POUNDS AND HAVING A CENTER MASS 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTIONS SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☒MD☒PP☒E☒ Option 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐MD☐PP☐E☐ Option 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #_____.

FOODSERVICE DRAWINGS SHEET LIST

FS1.1	- FOODSERVICE EQUIPMENT FLOOR PLAN
FS1.2	- FOODSERVICE EQUIPMENT SCHEDULE
FS2.1	- FOODSERVICE PLUMBING FLOOR PLAN
FS3.1	- FOODSERVICE ELECTRICAL FLOOR PLAN
FS3.2	- FOODSERVICE ELECTRICAL SCHEDULE
FS4.1	- FOODSERVICE MECHANICAL FLOOR PLAN
FS5.1	- FOODSERVICE EQUIPMENT EXHAUST HOOD
FS5.2	- FOODSERVICE EQUIPMENT EXHAUST HOOD
FS5.3	- FOODSERVICE EQUIPMENT EXHAUST HOOD
FS5.4	- FOODSERVICE EQUIPMENT EXHAUST HOOD
FS5.5	- FOODSERVICE EQUIPMENT EXHAUST HOOD
FS5.6	- FOODSERVICE EQUIPMENT EXHAUST HOOD
FS5.7	- FOODSERVICE EQUIPMENT EXHAUST HOOD
FS8.1	- FOODSERVICE EQUIPMENT ANCHORAGE DETAILS
FS8.2	- FOODSERVICE EQUIPMENT ANCHORAGE DETAILS
FS8.3	- FOODSERVICE EQUIPMENT ANCHORAGE DETAILS
FS9.1	- FOODSERVICE EQUIPMENT ELEVATIONS
FS9.2	- FOODSERVICE EQUIPMENT ELEVATIONS
FS9.3	- FOODSERVICE SERVING LINE DETAILS
FS9.4	- FOODSERVICE SERVING LINE DETAILS
FS9.5	- FOODSERVICE SERVING LINE DETAILS
FS9.6	- FOODSERVICE SERVING LINE DETAILS
FS9.7	- FOODSERVICE SERVING LINE DETAILS
FS9.8	- FOODSERVICE SERVING LINE DETAILS

NOTE

FOR FOODSERVICE EQUIPMENT SCHEDULE & SHEET NOTES SEE FS1.2

FLOOR LEGEND

SYMBOL/ABBREVIATION	DESCRIPTION	SYMBOL	DESCRIPTION
OFCI	OWNER FURNISH / CONTRACTOR INSTALLED	30" CLR. / 48" CLR.	ACCESSIBLE CLEARANCES AND SYMBOL 30"x48" MIN CLEARANCE
OFOI	OWNER FURNISH / OWNER INSTALLED		OUTLINE OF FOODSERVICE EQUIPMENT
FSEC	FOODSERVICE EQUIPMENT CONTRACTOR		FOODSERVICE EQUIPMENT BELOW EQUIPMENT TOP
VFVI	VENDER FURNISH / VENDER INSTALLED		FOODSERVICE EQUIPMENT ABOVE EQUIPMENT TOP
(E), EXIST	EXISTING FOODSERVICE EQUIPMENT		MOBILE FOODSERVICE EQUIPMENT
(F)	FUTURE FOODSERVICE EQUIPMENT	F.E. "K"	FIRE EXTINGUISHER & CABINET REFER TO ARCH. DRAWINGS FOR FIRE EXTINGUISHER LOCATIONS
	BUILDING WALLS (SEE ARCH. DWGS.)	FS.1	SHEET NUMBER
	WALK-IN COOLER/ FREEZER INSULATED WALLS	W.H.	WATER HEATER (SEE PLUMBING ENG. DWG.)
1 1	KEY / SHEET NOTE	A FS0.1 B	ELEVATION INDICATOR SYMBOL
1	ITEM NUMBER SYMBOL (SEE EQUIPMENT SCHEDULE FOR DESCRIPTION)		
KITCHEN 1	ROOM/ AREA NAME AND ROOM NUMBER		
C	COLUMN GRIDS WITH COLUMN INDICATORS		
48"x"18	STORAGE SHELVING SIZES (Width x Length)		

DSA File No.: *20-30*

DSA Application No.: *02-120517*

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EQUIPMENT SCHEDULE

ITEM NO	QTY	EQUIPMENT CATEGORY	MANUFACTURER	MODEL NUMBER	EQUIPMENT REMARKS	EQUIPMENT WT.	ANCHORAGE DETAIL
1	1	AIR CURTAIN, UNHEATED	BERNER	SLC07-1048A		54	K/FS8.1
2	5	AIR CURTAIN, UNHEATED	BERNER	SLC07-1036A		45	K/FS8.1
3.1	6	DRY STORAGE SHELVING	CAMBRO	CPU244864VS4480		99	D/FS8.1
3.2	1	RACK, DUNNAGE	CAMBRO	DRS480480		34	
3.3	3	DRY STORAGE SHELVING	CAMBRO	CPU244264V5480		107	D/FS8.1
3.4	2	DRY STORAGE SHELVING	CAMBRO	CPU246064VS4480		121	D/FS8.1
4	2	SINK, HAND, WALL MOUNT	EAGLE GROUP/METAL MASTERS	HSAP-14-ADA-FW		56	C/FS8.1
5	1	VACUUM PACKAGING MACHINE	HENKELMAN USA	BOXER 52II COMBIVAC		207	
6		SPARE					
7	1	DOUBLE WALL SHELF	CUSTOM	FABRICATED ITEM		150	G/FS8.1
8	1	PREP SINK	CUSTOM	FABRICATED ITEM		380	B/FS8.2
9	1	PRE-RINSE & FILL FAUCET	FISHER	34452		15.75	
10	1	DOUBLE WALL SHELF	CUSTOM	FABRICATED ITEM		150	G/FS8.1
11	2	MOBILE POT AND PAN STORAGE SHELVING	CAMBRO	EMU244878V5580		101.5	
12	1	PRE-RINSE SPRAY UNIT	FISHER	13390		12	
13	1	THREE COMPARTMENT POT WASH SINK	CUSTOM	FABRICATED ITEM		265	B/FS8.2
14	2	CLEAN DISHTABLE	CUSTOM	FABRICATED ITEM		170	B/FS8.2
14.1	1	SOILED DISHTABLE	CUSTOM	FABRICATED ITEM		134	B/FS8.2
14.2	1	DISHWASHER, VENTLESS, DOOR TYPE	CHAMPION	DH-6000T-VHR		319	K/FS8.3
15	1	BLAST CHILLER / SHOCK FREEZER, ROLL-IN	IRINOX NORTH AMERICA	MF 70.1L		900	B/FS8.3
16	5	MOBILE WARMING & HOLDING CABINET	CRES COR	H137SUA9D		297	L/FS8.1
17	3	COMBI OVEN -ROLL-IN	RATIONAL USA	ICOMBI PRO 20-FULL SIZE G (ICP 20-FULL NG)	VERIFY GAS TYPE	936	L/FS8.3
18	2	FLOOR TROUGH	EAGLE GROUP	FT-1896-SG-ADA	W/ADA GRATE	230	G/FS8.2
19	1	EXHAUST HOOD	CAPTIVE AIR	6024ND-2-PSP-F		1409	K/FS8.2
19.1	1	FIRE SYSTEM	CAPTIVE AIRE / ANSUL	R-102			K/FS8.2
20	1	TILT SKILLET, ELECTRIC, POWER TILT	RATIONAL USA	IVARIO PRO L W/ STANDARD FEET (208/240V)	W/FLANGED FEET	225	I/FS8.3
21		SPARE					
22	2	MOBILE WORK TABLE WITH UTENSIL DRAWERS	CUSTOM	FABRICATED ITEM	W/12" OVER SHELF	185	
23	3	RACK, PAN, FULL SIZE	CAMBRO	UPR1826FA40580		94.5	
24	1	CABINET, HEATED, PASS-THRU	TRAULSEN	RHF232WP-HHG		965	H/FS8.3
25	1	REFRIGERATOR, PASS-THRU	TRAULSEN	RHT132WP-FHG		455	D/FS8.3
26	1	HAND SINK, WALL MOUNT	ADVANCE TABCO	7-PS-68		28	C/FS8.2
27	2	DISPLAY CASE, HEATED	HATCO	GRSDS-36D		180	
28		SPARE					
29		SPARE					
30	1	REFRIGERATED SELF-SERVICE CASE	HYDRA KOOL	KGL-RS-60-S		750	
31	2	P.O.S			OFCI		
31.1		SERVING COUNTER	DUKE	FABRICATED ITEM		450	B/FS8.2
32	1	SERVING COUNTER	DUKE	FABRICATED ITEM		450	B/FS8.2
32.1	1	SERVING COUNTER	DUKE	FABRICATED ITEM		450	B/FS8.2
33	1	WORK COUNTER	CUSTOM	FABRICATED ITEM		290	B/FS8.2
34	1	WALL MOUNTED SHELF	CUSTOM	FABRICATED ITEM		75	G/FS8.1
35	1	REFRIGERATOR, REACH-IN	TRUE MANUFACTURING CO., INC.	STG2R-2G-HC		710	C/FS8.3
36	1	WORK COUNTER	CUSTOM	FABRICATED ITEM		290	B/FS8.2
37	1	WALL MOUNTED SHELF	CUSTOM	FABRICATED ITEM		75	G/FS8.1
38	1	PREP SINK	CUSTOM	FABRICATED ITEM		65	B/FS8.2
39	6	DROP-IN, HOT/COLD/FREEZE UNIT	LTI	DI-QSCHP-3		435	
40	1	SNEEZE GUARD W/ LIGHTS	DUKE	FABRICATED ITEM			
41	1	SERVING COUNTER	DUKE	FABRICATED ITEM		1100	B/FS8.2
42		SPARE				92	
43	1	HEAT LAMP/INFRARED STRIP	DUKE			20	
44	1	DROP-IN, HEATED GLASS SHELF	HATCO	HBGB-4818		50	
45	2	REFRIGERATED SELF-SERVICE CASE	HYDRA KOOL	KGL-RS-60-S		750	B/FS8.2
46	1	POS COUNTER	SERVE SMART	DF-21		250	MOBILE
47	2	3 TIER UTENSIL DRAWER	CUSTOM	FABRICATED ITEM		90	B/FS8.2
48	1	CHEFS SINK	CUSTOM	FABRICATED ITEM		65	B/FS8.2
49	1	MOBILE WORK TABLE WITH UTENSIL DRAWER	CUSTOM	FABRICATED ITEM	W/U SHAPED CROSS BRACING	185	B/FS8.2
50	1	CHEFS COUNTER	CUSTOM	FABRICATED ITEM		1250	E/FS8.1
51	1	DOUBLE OVERSHELF	CUSTOM	FABRICATED ITEM		145	E/FS8.1
52	1	TABLE MOUNTED POT RACK	EAGLE GROUP/METAL MASTERS	TM60PR		64.2	E/FS8.1
53	1	PIZZA/ SANDWICH PREP TABLE	TRUE MANUFACTURING CO., INC.	TPP-AT-60-HC	OFCI	410	B/FS8.2

KITCHEN EQUIPMENT ANCHORAGE NOTE

1. ALL "HARDWRE AND GAS" KITCHEN EQUIPMENT SHALL BE INSTALLED WITH SIESMIC RESTRAINTS PER GUIDELINES FOR SEISMIC RESTRAINTS OF KITCHEN EQUIPMENT AS PUBLISHED BY SMACNA AND THE DSA FIELD ENGINEER.
2. WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON DRAWINGS OR IN GUIDELINES,THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT AND THE DSA FIELD ENGINEER.
3. A COPY OF THE "GUIDELINES" SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB SITE AT ALL TIMES.

SHEET NOTES

1. ALL PENETRATIONS 12"OR LARGER TO BE CAST AT THE PRE-CAST MANUFACTURER'S PLANT AND WILL BE COORDINATED WITH THE ENGINEER OF RECORD AND THE PRE-CAST CONCRETE ENGINEER PRIOR TO CASTING.
2. ALL PENETRATIONS SMALLER THAN 12"SHALL BE CORED IN THE FIELD AND COORDINATED WITH THE ENGINEER OF RECORD AND THE PRE-CAST CONCRETE ENGINEER. PRIOR TO CORING, PRE-CAST ENGINEER TO REVIEW LOCATIONS TO ENSURE THE PENETRATIONS ARE NOT GOING THROUGH FLEXURAL REINFORCEMENT.
3. REFER TO ARCH. DRAWINGS FOR FIRE EXTINGUISHER LOCATIONS. FIRE EXTINGUISHER FOR KITCHENS TO BY TYPE K
4. "ALL WORK SHALL CONFORM TO THE CALIFORNIA BUILDING CODE, CALIFORNIA ELECTRICAL CODE, CALIFORNIA MECHANICAL AND PLUMBING CODES, CALIFORNIA HEALTH AND SAFETY CODE. ALL FOOD SERVICES EQUIPMENT SHALL MEET AND BE INSTALLED PER THE REQUIREMENTS OF THE CALIFORNIA HEALTH AND SAFETY CODE DIVISION 22 AND ALL LOCAL CODES AND ORDINANCES."

KITCHEN EQUIPMENT BRACING NOTE

ALL KITCHEN EQUIPMENT SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY" ATTACHED SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING KITCHEN EQUIPMENT SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

B. COMPONENTS WEIGHTING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF AL KITCHEN EQUIPMENT SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

KITCHEN EQUIPMENT HOOD AND FIRE SYSTEM

1. THE KITCHEN HOOD FIRE SUPPRESSION SYSTEM SHALL CONFORM TO THE REQUIREMENTS OF THE 2017 EDITION OF THE NFPA 17A. (UL 300 SYSTEM)
2. INSTALLATION OF THE FIRE SUPPRESSION SYSTEM SHALL NOT BE STARTED UNTIL COMPLETE PLANS AND SPECIFICATIONS HAVE BEEN APPROVED BY DEPT. OF STATE ARCHITECT.
3. UPON COMPLETION OF THE SYSTEM IT SHALL BE TESTED IN THE PRESENCE OF THE STATE FIRE MARSHAL.

NOTE

FOR FOODSERVICE EQUIPMENT FLOOR PLAN SHEET FS1.1

HEALTH DEPARTMENT NOTES:

1. PROVIDE THERMOMETER IN ALL REFRIGERATION UNITS CONTAINING PERISHABLE FOODS.
2. PROVIDE PROBE THERMOMETER FOR CHECKING HOT AND COLD FOODS.
3. FOOD STORAGE SHELVES SHALL BE MINIMUM SIZE (6) INCHES ABOVE FLOOR.
4. ALL EQUIPMENT SHALL MEET OR BE EQUIVALENT TO "NSF" STANDARDS.
5. PROVIDE GARMENT STORAGE AREA: LOCKER, CABINET OR HANGERS FOR EMPLOYEE GARMENTS.
6. RODENT AND INSECT-PROOF ALL EXTERIOR DOORS AND WINDOWS. PROVIDE HEAVY-DUTY SELF-CLOSERS ON ALL EXTERIOR DOORS AND RESTROOM DOORS. SEAL ALL HOLES OR GAPS AROUND PIPES ENTERING BUILDING.
7. EXTERIOR DOORS SHALL BE RODENT PROOF WITH NO OPENINGS GREATER THAN 1/4 INCH.
8. PROVIDE HARDWOOD, METAL, FORMICA OR OTHER APPROVED MATERIALS, SMOOTH WITH SEALER ON ALL TABLE, COUNTERS, SHELVES, AND OTHER FOOD CONTACT SURFACES.
9. PROVIDE HAZARDOUS SUBSTANCE LOCATION: SEPARATE CABINET, ROOM OR DESIGNATED AREA FOR STORAGE OF PESTICIDE AND CLEANING COMPOUNDS.
10. INSTALL EQUIPMENT TO FACILITATE CLEANING. PLACE FLOOR MOUNTED UNITS ON CASTERS, MINIMUM SIX (6) INCHES HIGH, ROUND, METAL LEGS, OR SEAL IN POSITION ON MINIMUM FOUR (4) INCH CURB.
11. UNPACKAGED PROCESSED FOODS ON DISPLAY SHALL BE EFFECTIVELY SHIELDED OR COVERED.
12. PROVIDE SOAP AND TOWEL DISPENSERS AT ALL HAND WASHING SINKS.
13. FLOOR SINKS SHALL BE INSTALLED FLUSH WITH FLOOR AND READILY ACCESSIBLE FOR CLEANING.
14. GREASE INTERCEPTORS SHALL BE INSTALLED READILY ACCESSIBLE FOR CLEANING.
15. PROVIDE PROTECTIVE COVERS ON ALL LIGHTS IN FOOD PREPARATION, OPENED FOOD STORAGE ROOM(S), UTENSIL WASH AREAS, OR USE SHATTERPROOF BULBS.
16. LIGHTING REQUIREMENTS:
    - -MINIMUM 50FT. CANDLES REQUIRED IN FOOD PREP AREA
    - -MINIMUM 20FT. CANDLES REQUIRED IN RESTROOMS AND BARS
    - -MINIMUM 10FT. CANDLES REQUIRED IN REFRIGERATORS
    - -MINIMUM 10FT. CANDLES REQUIRED IN STORAGE AREAS
    - -LIGHTING SHALL BE SHATTERPROOF OR SHIELDED
17. EXISTING FIXTURES, FINISHES, AND EQUIPMENT SHALL BE IN OPERABLE CONDITION AND SUBJECT TO FIELD APPROVAL.
18. WALLS & CEILING IN THE RESTROOMS, PREPARATION, STORAGE, AND JANITORIAL AREAS SHALL BE CONSTRUCTED OF APPROVED MATERIALS SO AS TO BE SMOOTH, WASHABLE, AND EASY TO CLEAN.

DSA File No.: *20-30*

DSA Application No.: *02-120517*

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APP: 02-120517 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

Agency Approval

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THOMAS JEFFERSON M. S. KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
Madera, CA
Project

BUILDING C
FOODSERVICE EQUIPMENT SCHEDULE
Drawing

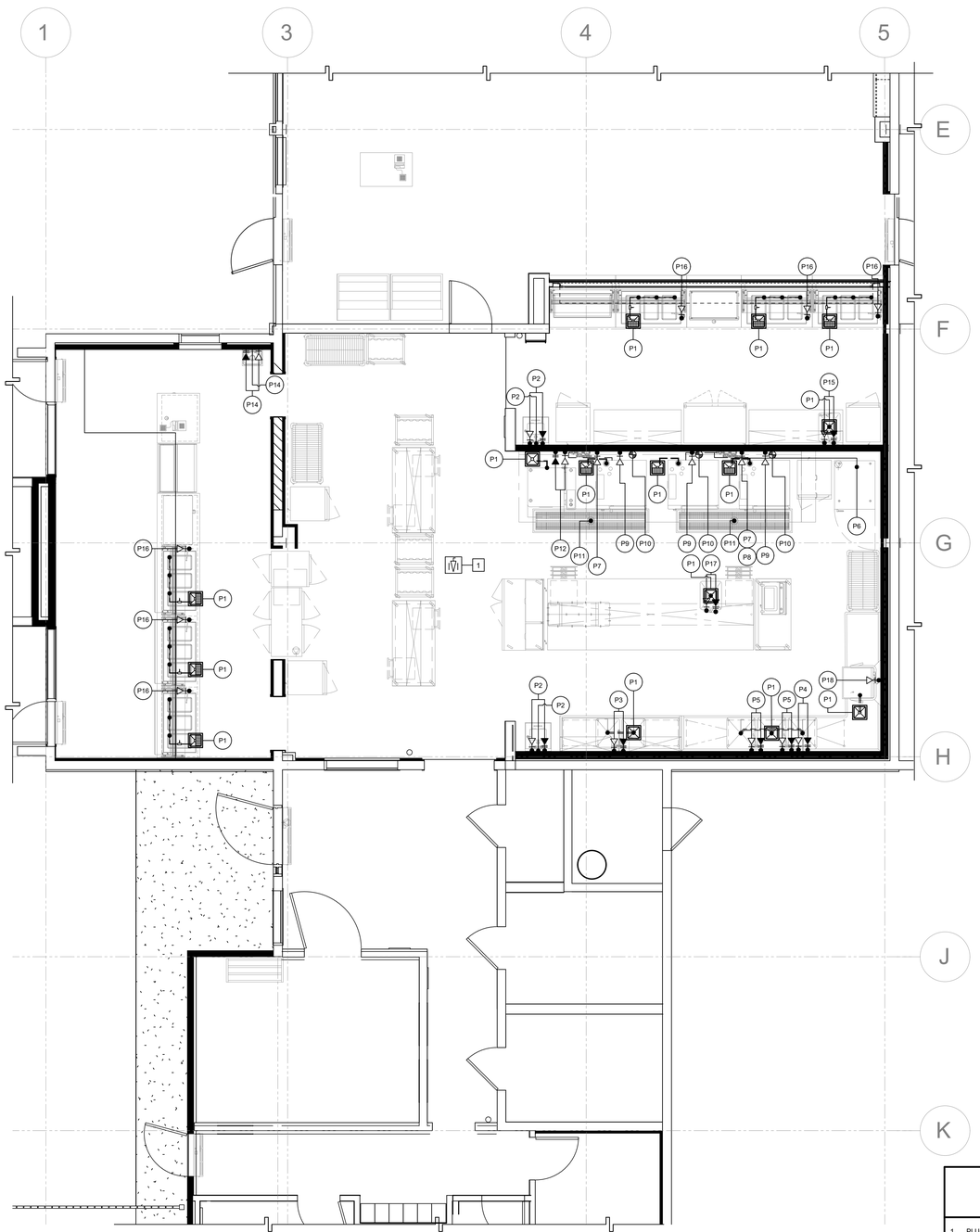
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LICENSED ARCHITECT ANTONIO J. ALVAREZ No. C-29235 Exp. 10-31-23 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: -	Copyright 2023 Darden Architects
Scale: As indicated	Drawn By: -	
Project Number: 2123	Checked By: -	*FS1.2*
Date: 03/31/2023	Reviewed By: -	



FOODSERVICE EQUIPMENT PLUMBING PLAN

1 FS2.1

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

PLUMBING SCHEDULE

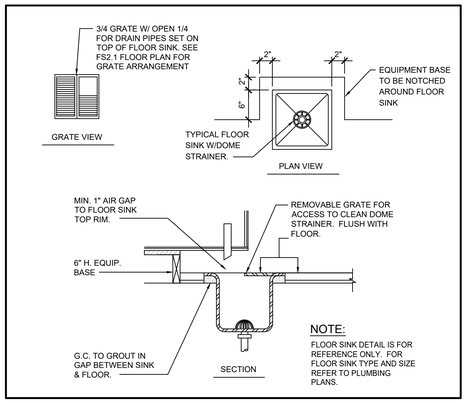
PLUM NO.	ITEM NO.	DESCRIPTION	QTY.	WATER CONN. SIZE C.W.	WATER CONN. SIZE H.W.	WATER HGT.@ WALL	WASTE CONN. SIZE DIR.	WASTE CONN. SIZE INDIR.	WASTE HGT.@ WALL	GAS BTU/HR (x1,000)	GAS CONN. SIZE	GAS HGT.@ WALL	REMARKS	NOTE(S)
P1	-	FLOOR SINK	12EA.	-	-	-	-	-	0"	-	-	-	INSTALL FLUSH WITH FINISH FLOOR, PROVIDE GRATE COVER W/ DOME STRAINER, SIZE 12" x 12" x 8"	
P2	4	WALL MOUNTED HAND SINK FAUCET W/ 1/2" INLET 4" CENTER	2EA.	1/2"	1/2"	18"	1 1/2"	-	24"	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. RUN DIRECT WASTE WITH P-TRAP.	
P3	8/9	PREP SINK FAUCET W/ 1/2" INLET 8" CENTER DECK MOUNT	1EA.	1/2"	1/2"	16"	-	2"	-	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. PROVIDE 2" INDIRECT DRAIN TO F.S. P1. (CHROME OR PAINT SILVER)	
P4	12	PRE-RINSE FAUCET, SPLASH MOUNT FAUCET W/ 1/2" INLET 8" CENTER	1EA.	1/2"	1/2"	16"	-	-	-	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION.	
P5	13	POTWASH SINK FAUCET W/ 3/4" INLET 8" CENTER	2EA.	3/4"	3/4"	16"	-	2"	-	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. PROVIDE 2" INDIRECT DRAIN TO F.S. P1. (CHROME OR PAINT SILVER)	
P6	15	BLAST CHILLER INDIRECT DRAIN	1EA.	-	-	-	-	1 1/4"	-	-	-	-	PROVIDE 1 1/4" INDIRECT DRAIN TO F.S. P1. (CHROME OR PAINT SILVER)	
P7	17	COMBI OVEN WATER FILTER	2EA.	3/4"	-	38"	-	-	-	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION.	1 2
P8	17	COMBI OVEN WATER FILTER	1EA.	3/4"	-	64"	-	-	-	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION.	1 2
P9	17	COMBI OVEN NON-FILTERED WATER CONNECTION	3EA.	3/4"	-	24"	-	2"	-	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. PROVIDE 2" INDIRECT DRAIN TO F.S. P1. (CHROME OR PAINT SILVER)	1
P10	17	COMBI OVEN GAS	3EA.	-	-	-	-	-	-	303	3/4"	12"	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION.	
P11	18	FLOOR TROUGH	2EA.	-	-	-	4"	-	-10.25"	-	-	-	RUN DIRECT WASTE WITH P-TRAP.	4
P12	20	TILT SKILLET	1EA.	3/4"	3/4"	24"	-	2"	-	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. PROVIDE 1" INDIRECT DRAIN TO F.S. P1.	
P13		SPARE												
P14	26	WALL MOUNTED HAND SINK FAUCET W/ 1/2" INLET 4" CENTER	1EA.	1/2"	1/2"	18"	1 1/2"	-	24"	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. RUN DIRECT WASTE WITH P-TRAP.	
P15	38	PREP SINK FAUCET W/ 1/2" INLET 8" CENTER DECK MOUNT	1EA.	1/2"	1/2"	16"	-	2"	-	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. PROVIDE 2" INDIRECT DRAIN TO F.S. P1. (CHROME OR PAINT SILVER)	
P16	39	HOT/COLD FOOD WELLS	6EA.	1/2"	-	16"	-	1"	-	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. PROVIDE 1" INDIRECT DRAIN TO F.S. P1.	
P17	48	CHEFS SINK FAUCET W/ 1/2" INLET 8" CENTER	1EA.	1/2"	1/2"	16"	-	2"	-	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. PROVIDE 2" INDIRECT DRAIN TO F.S. P1. (CHROME OR PAINT SILVER)	
P18	14.2	HI TEMP WARE WASHER	1EA.	3/4"	-	18"	-	1/2"	-	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. PROVIDE 2" INDIRECT DRAIN TO F.S. P1. (CHROME OR PAINT SILVER)	3

PLUMBING KEY NOTE(S):

1. VERIFY WATER QUALITY MEETS MANUFACTURERS STANDARD MINIMUM REQUIREMENTS
2. CONNECT OUTLET FROM WATER FILTER TO FILTERED WATER CONNECTION 17
3. PROVIDE WATER TEMPERING KIT IF LOCAL CODE REQUIRES
4. VERIFY LOCATION WITH EQUIPMENT POOR PATTERN

FIRE SYSTEM NOTE:

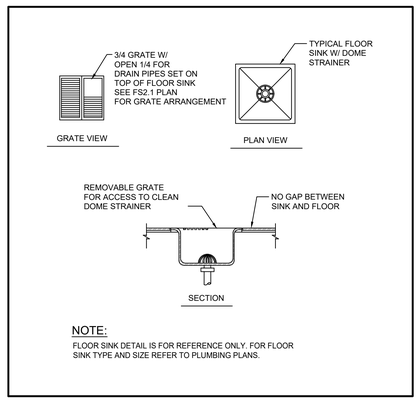
1. FURNISH AUTOMATIC GAS SHUT-OFF VALVE INCLUDING ANY NECESSARY ACCESS PANEL. CONTRACTOR SHALL INSTALL THE AUTOMATIC SHUT-OFF VALVE IN AN ACCESSIBLE LOCATION. REFER TO PLUMBING DRAWINGS FOR GAS VALVE LOCATION.



FLUSH FLOOR SINK DETAIL

2 FS2.1

SCALE : NONE LOCATED UNDER WORK COUNTERS



FLUSH FLOOR SINK DETAIL

3 FS2.1

SCALE : NONE

FOODSERVICE PLUMBING LEGEND

ABREV./SYMB.	DESCRIPTION	SYMBOL	DESCRIPTION
C.W.	COLD WATER	P1	PLUMBING SCHEDULE REFERENCE, REFER TO FS2.1 FOR SCHEDULE
H.W.	HOT WATER	1 1	SHEET AND/OR KEY NOTE
DIR.	WASTE (DIRECT CONNECTION)		COLD WATER INLET
INDIR.	INDIRECT WASTE (AIR GAP)		HOT WATER INLET
LAV.	LAVATORY		WATER CONNECTION TO EQUIPMENT
W.C.	WATER CLOSET		SHUT OFF VALVE (S.O.V.)
F.S.	FLOOR SINK		COLD WATER SHUT OFF VALVE
P.C.	PLUMBING CONTRACTOR		GAS SHUT-OFF VALVE
G.C.	GENERAL CONTRACTOR		FLOOR SINK
K.E.C.	KITCHEN EQUIPMENT CONTRACTOR		FLOOR DRAIN
S.O.V.	SHUT OFF VALVE		WASTE DOWN
GPH	GALLONS PER HOUR		GAS INLET
PSI	POUNDS PER SQUARE INCH		I.D. DRAIN LINE
(F)	DEGREES FAHRENHEIT		
CONN.	CONNECT		
LOC.	LOCATE		

PLUMBING NOTES

(MINIMUM REQUIREMENTS UNLESS NOTED OTHERWISE)

1. PLUMBING CONTRACTOR TO VERIFY ALL INCOMING SERVICE AND MAKE FINAL HOOK-UPS TO ALL APPLICABLE EQUIPMENT AND TO PROVIDE ALL PIPING, TEES, ELLS, TRAPS, FILTERS, REGULATORS, FAUCETS, ETC., UNLESS SPECIFICALLY STATED OTHERWISE.
2. ALL HORIZONTAL DIMENSIONS SHOWN ON PLAN ARE FROM FINISHED FACE OF WALL TO CENTERLINE OF STUB-OUT OR FROM CENTERLINE OF STUB-OUT TO CENTERLINE OF STUB-OUT, UNLESS NOTED OTHERWISE ON PLAN OR DETAILS. (VERIFY ALL DIMENSIONS)
3. SYMBOLS NOTED +24", +48", ETC., INDICATES TO STUB-OUT OF WALL AT HEIGHT INDICATED. HEIGHT IS GIVEN FROM FINISHED FLOOR (NOT FINISHED CURB) TO CENTERLINE OF STUB-OUT. SYMBOLS INDICATED "STUB-UP" AND "STUB-DOWN" ARE TO EXTEND ABOVE FINISHED FLOOR AND/OR BELOW FINISHED CEILING AT LOCATION SHOWN.
4. PLUMBING STUBS AND CONNECTIONS SHOWN ON PLANS ARE FOR EQUIPMENT FURNISHED BY THE FOOD SERVICE EQUIPMENT CONTRACTOR.
5. FLOOR SINKS SHOWN ARE TO BE SET FLUSHED WITH TOP OF FINISHED FLOOR. FLOOR SINKS INDICATED HALF-IN AND HALF-OUT OF EQUIPMENT TO BE SET FLUSHED WITH TOP OF FINISHED FLOOR. FLOOR SINKS LOCATED COMPLETELY WITHIN EQUIPMENT AREA TO BE SET FLUSHED WITH TOP OF FINISHED FLOOR.
6. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL REMOVABLE COVERS OR GRATES FOR ALL FULLY OR PARTIALLY EXPOSED FLOOR SINKS. GRATES TO HAVE 1/2" MAX OPENGS WHERE DRAIN IS EXPOSED TO P.O.T OR TO PEDESTRIAN WAYS TYP.
7. PLUMBING CONTRACTOR SHALL SEAL ALL PLUMBING PENETRATIONS THROUGH WALLS, FLOORS, AND CEILINGS. WATERTIGHT AND VERMIN-PROOF.
8. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL SHUT-OFF VALVES ON ALL WATER AND GAS LINES, INCLUDING VALVES IN FIXTURES, LOCATED IN SUCH A WAY AS TO BE ACCESSIBLE WITHOUT USE OF TOOLS.
9. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL FOR ALL APPLICABLE EQUIPMENT, A TRAPPED FLOOR SINK WITH A LEGAL AIR GAP DRAIN LINE (INDIRECT WASTE) TO FLOOR SINK. INSULATE ALL DRAIN LINES FROM ICE BINS, ICE MACHINES, REFRIG. EQUIP., ETC..

PLUMBING PLAN SHEET NOTES

1 GAS SHUT-OFF VALVE FOR ANSUL SYSTEM WITH ACCESS DOOR. REFER TO PLUMBING PLANS FOR LOCATION.

DSA File No.: *20-30*

DSA Application No.: *02-120517*

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APP: 02-120517 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

Agency Approval

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BUILDING C
FOODSERVICE EQUIPMENT PLUMBING PLAN
Drawing

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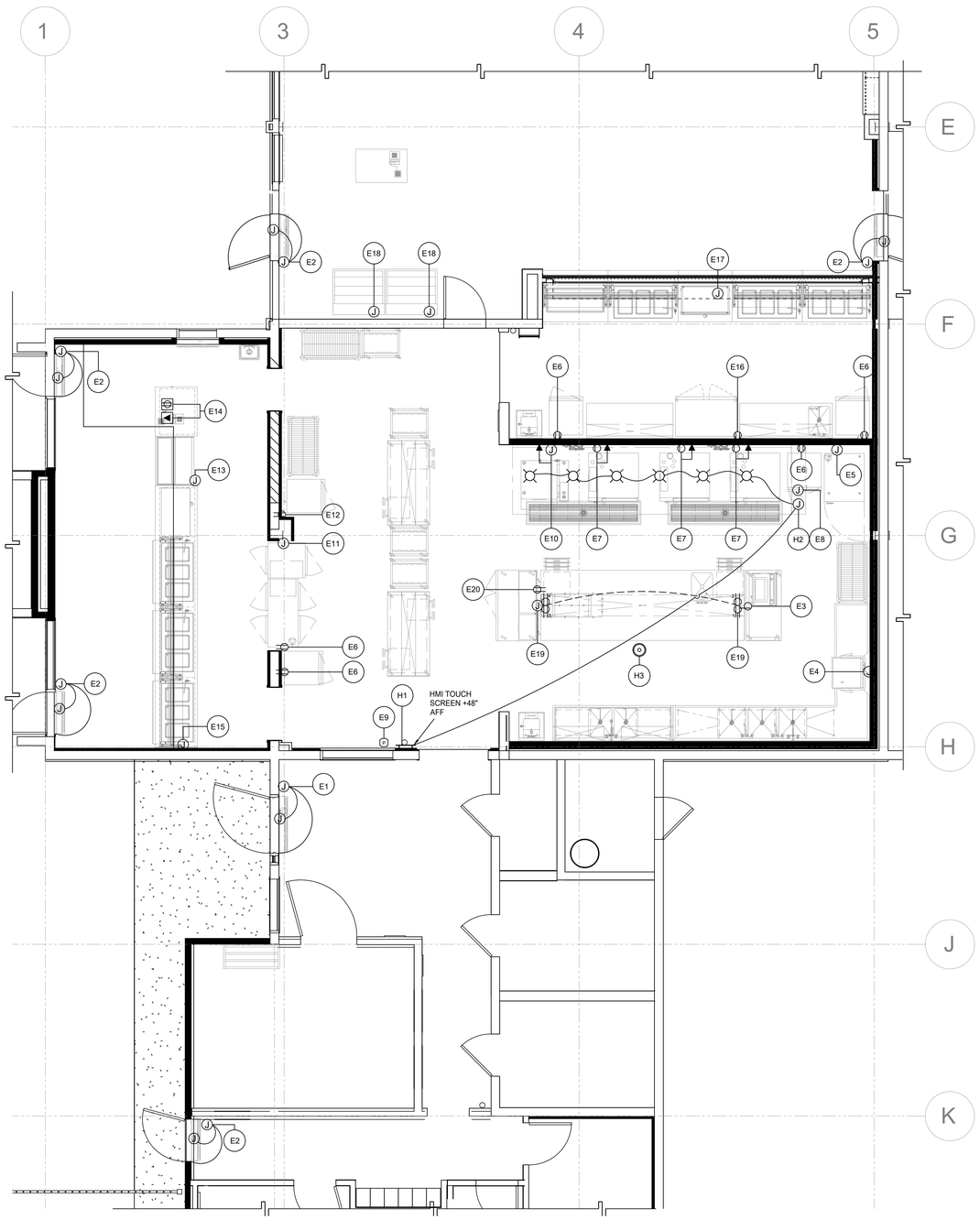
LICENSED ARCHITECT JEFFREY J. AUSTIN No. C26235 Ren. 10-31-24 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: -	Copyright 2023 Darden Architects
Scale: As indicated	Drawn By: -	
Project Number: 2123	Checked By: -	FS2.1
Date: 03/31/2023	Reviewed By: -	



FOODSERVICE EQUIPMENT ELECTRICAL PLAN

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

1 / FS3.1

ELECTRICAL NOTES

1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL ROUGH-INS, FINAL CONNECTIONS AND INTER- CONNECTIONS TO THE FOOD SERVICE EQUIPMENT
2. CONNECTIONS SHOWN ARE FOR THE FOOD SERVICE EQUIPMENT ONLY. REFER TO ELECTRICAL DRAWINGS FOR CONVENIENCE OUTLETS AND ADDITIONAL REQUIREMENTS.
3. RECEPTACLES SHALL BE MOUNTED VERTICALLY.
4. RECEPTACLES, JUNCTION/HANDY BOXES INDICATED AT WALLS SHALL BE CONCEALED IN THE WALL AT THE HEIGHT INDICATED.
5. VERTICAL DIMENSIONS ARE GIVEN FROM FINISHED FLOOR TO CENTER LINE OF ROUGH-IN LOCATION.
6. UTILITIES WHEREVER POSSIBLE SHALL BE BROUGHT IN FROM ABOVE,
7. VERIFY THE UTILITY REQUIREMENTS OF OWNER FURNISHED AND/OR EXISTING EQUIPMENT.
8. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND/OR INSTALL ALL JUNCTION/HANDY BOXES, EXTENSION RINGS, DISCONNECT SWITCHES AS SHOWN, CONVENIENCE OUTLETS WITH STAINLESS STEEL COVERS, SWITCHES, CONNECTORS, CONTROLS AND OTHER ACCESSORIES THAT ARE NOT AN INTEGRAL PART OF THE FOOD SERVICE EQUIPMENT AS REQUIRED TO MAKE FINAL CONNECTIONS TO THE EQUIPMENT FOR A COMPLETE AND OPERABLE OPERATION MEETING ALL APPLICABLE CODES AND ORDINANCES.
9. JUNCTION/HANDY BOXES, CONVENIENCE OUTLETS AND SPECIAL PURPOSE OUTLETS SHOWN IN FABRICATED WORK TABLES AND COUNTERS SHALL BE FURNISHED BY FABRICATOR. ELECTRICAL CONTRACTOR TO PROVED ALL WIRING & RECEPTACLES.

ELECTRICAL PLAN LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AFF	ABOVE FINISHED FLOOR	J	JUNCTION BOX
CLG.	CEILING	▲	DATA OUTLET
CONN.	CONNECT	P	EMPTY OCTAGONAL BOX W/ CONDUIT TO +2" ABOVE CEILING BY E.C
E.C.	ELECTRICAL CONTRACTOR		VAPOR-PROOF LIGHT FIXTURE AT EXHAUST HOOD (PROVIDED BY F.S.E.C. INSTALLED BY E.C.)
FSEC	FOOD SERVICE EQUIPMENT CONTRACTOR	J	STUBBED-UP JUNCTION BOX
G.C.	GENERAL CONTRACTOR		STUBBED-UP CONVENIENCE OUTLET
P.R.P.	PRESSURE RELIEF PORT		STUBBED-UP SIMPLEX OUTLET
S.F.	STAINLESS STEEL FABRICATOR	▲	STUBBED-UP DATA OUTLET
M.C.	MECHANICAL CONTRACTOR		ROOM TEMPERTURE SENSOR
LOC.	LOCATE		
E1	ELECTRICAL SCHEDULE REFERENCE, REFER TO FS3.2 FOR SCHEDULE		
1 1	SHEET AND/OR KEY NOTE		
	DUPLEX CONVENIENCE OUTLET 115V/1Ø UNLESS OTHERWISE NOTED		
	SIMPLEX OUTLET SEE SCHEDULE FOR VOLTAGE		
	CEILING MOUNTED, VAPOR-PROOF LIGHT FIXTURE W/ JUNCTION BOX, 115V/1Ø UNLESS OTHERWISE NOTED (WALK-IN REFRIGERATOR)		

NOTE

FOR FOODSERVICE EQUIPMENT ELECTRICAL SCHEDULE SEE SHEET FS3.2

DSA File No.: *20-30*

DSA Application No.: *02-120517*

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THOMAS JEFFERSON M. S. KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
Madera, CA
Project

BUILDING C
FOODSERVICE EQUIPMENT ELECTRICAL PLAN
Drawing

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LICENSED ARCHITECT ANTONIO J. ALVES No. C26235 Exp. 10-31-23 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

	Designed By: -	Copyright 2023 Darden Architects
Scale: As indicated	Drawn By: -	
Project Number: 2123	Checked By: -	*FS3.1*
Date: 03/31/2023	Reviewed By: -	

ELECTRICAL SCHEDULE

ELEC. NO.	ITEM NO.	DESCRIPTION	QTY.	VOLT.	PH	DIRECT	PLUG	NEMA	LOAD WATT	LOAD AMPS. DRAW	LOAD HP	OUTLET HEIGHT	REMARKS	NOTE(S)
E1	1	AIR CURTAIN	1EA.	120	1	X	-	-	-	3.4	1/2	+86"	PROVIDE J-BOX IN WALL INSTALL DOOR LIMIT SWITCH FOR INSTANT ON/OFF SWITCH BY F.S.E.C SEE DETAIL B/FS8.2	
E2	2	AIR CURTAIN	6EA.	120	1	X	-	-	-	3.4	1/2	+86"	PROVIDE J-BOX IN WALL INSTALL DOOR LIMIT SWITCH FOR INSTANT ON/OFF SWITCH BY F.S.E.C SEE DETAIL B/FS8.2	
E3	5	VACUUM SEALER	1EA.	120	1	-	X	5-20P	-	16	-	+28"	PROVIDE SIMPLEX RECEPTACLE AT END OF CHEFS COUNTER SEE E/FS8.1 UNIT PROVIDED WITH CORD AND PLUG	1
E4	14.2	HIGH TEMP WARE WASHER W/ BUILT-IN BOOSTER	1EA.	208	3	X	-	-	-	46	-	+18"	PROVIDE J-BOX IN WALL CONNECT TO UNIT ELECTRICAL CONNECTION	
E5	15	BLAST CHILLER	1EA.	208	3	X	-	-	-	26.8	-	+18"	PROVIDE J-BOX IN WALL CONNECT TO UNIT ELECTRICAL CONNECTION	
E6	16	MOBILE WARMING & HOLDING CABINET	5EA.	120	1	-	X	5-15P	-	12	-	+48"	PROVIDE DUPLEX RECEPTACLE IN WALL UNIT PROVIDED WITH CORD AND PLUG SET	4
E7	17	COMBI OVENS (ROLL-IN) POWER AND DATA	3EA.	208	1	X	-	-	-	10.3	-	+18"	PROVIDE SIMPLEX RECEPTACLE PROVIDE DATA OUTLET IN WALL	4
E8	19.1	FIRE SYSTEM AT ANSUL CONTROL AUTOMAN PANEL	1EA.	120	1	X	-	-	-	20	-	+104"	120V/1-20AMP @ ANSUL CONTROL	
E9	19.1	FIRE SYSTEM (REMOTE PULL STATION)	1EA.	-	-	X	-	-	-	-	-	+48"	EMPTY FLUSH MT'D. OCTAGONAL BOX (REMOTE PULL) SEE FS5.4	3
E10	20	ELECTRIC TILT SKILLET /MULTI COOKER POWER AND DATA	1EA.	208	3	X	-	-	-	70	-	+18"	PROVIDE J-BOX IN WALL CONNECT TO UNIT ELECTRICAL CONNECTION PROVIDE DATA OUTLET IN WALL	4
E11	24	HEATED PASS THROUGH CABINET	1EA.	208	1	X	-	-	-	15.5	-	+86"	PROVIDE J-BOX IN WALL CONNECT TO UNIT ELECTRICAL CONNECTION	
E12	25	REFRIGERATED PASS THROUGH CABINET	1EA.	120	1	-	X	5-15P	-	8.3	-	+86"	PROVIDE DUPLEX RECEPTACLE IN WALL UNIT PROVIDED WITH CORD AND PLUG SET	
E13	30	REFRIGERATED DISPLAY CASE	1EA.	120	1	X	-	-	-	25	-	+18"	PROVIDE J-BOX AT SERVING COUNTER CONNECT TO UNIT CONNECTION INTERCONNECT WITH SERVING LINE LOAD CENTER	2
E14	-	SPARE	-	-	-	-	-	-	-	-	-	-		
E15	32.1	SERVING LINE LOAD CENTER (PANEL BOX -A)	1EA.	120/208	1	X	-	-	7712	37.08	-	+18"	PROVIDE J-BOX IN WALL CONNECT TO UNIT ELECTRICAL CONNECTION INTERCONNECT WITH SERVING LINE LOAD CENTER	
E16	35	REACH-IN REFRIGERATOR	1EA	120	1	-	X	5-15P	-	5.9	-	+88"	PROVIDE DUPLEX RECEPTACLE IN WALL UNIT PROVIDED WITH CORD AND PLUG SET	
E17	41	SERVING LINE LOAD CENTER (PANEL BOX -B)	1EA	120/208	1	X	-	-	10517	29.19		+18"	PROVIDE J-BOX IN WALL CONNECT TO UNIT ELECTRICAL CONNECTION INTERCONNECT TO LOAD CENTER	
E18	45	REFRIGERATED DISPLAY CASE	1EA.	120	1	X	-	-	-	25	-	+12"	PROVIDE J-BOX IN WALL CONNECT TO UNIT ELECTRICAL CONNECTION	
E19	45	CHEFS COUNTER	4EA.	120	1	X	-	-	-	15EA.	-	+34"	PROVIDE (2) DOUBLE FACED PEDISTAL DUPLEX RECEPTACLE MT'D. ON COUNTER TOP (COMPONENT HARDWARE NO. RS8-1020)[R71-0721) (TOTAL OF 4 DCO OUTLETS)	5
E20	53	PIZZA/SANDWICH PREP STATION	1EA.	120	1	X	-	-	-	3.9	-	+28"	PROVIDE DUPLEX RECEPTACLE AT END OF CHEFS COUNTER SEE E/FS8.1 UNIT PROVIDED WITH CORD AND PLUG	1

WALK-IN REFRIGERATION ELECTRICAL (MINIMUM REQUIREMENTS UNLESS NOTED OTHERWISE)

1. - THE ELECTRICAL CONTRACTOR SHALL INSTALL AND INTER WIRE LIGHT SWITCHES AND FIXTURES REQUIRED FOR THE FOOD SERVICE EQUIPMENT AND MAKE FINAL CONNECTIONS.
2. - THE FOOD SERVICE EQUIPMENT CONTRACTOR SHALL INSTALL THE PRESSURE RELIEF PORT, DOOR HEATERS, DRAIN LINE HEATERS AND TEMPETURE ALARM SYSTEM. INTER WIRING AND FINAL CONNECTIONS BY THE ELECTRICAL CONTRACTOR.
3. - THE ELECTRICAL CONTRACTOR SHALL INTER WIRE THE TIME CLOCK ON THE CONDENSING UNIT TO THE DEFROST RELAY ON THE UNIT EVAPORATOR LOCATED IN THE FREEZER COMPARTMENT.
4. - THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT AND WIRING NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM WITH ALL CONDUIT IN SO FAR AS POSSIBLE MOUNTED ON THE EXTERIOR CEILING OF THE WALK-IN ASSEMBLY. PENETRATIONS AND ESCUTCHEON PLATES SHALL BE FURNISHED AND INSTALLED BY THE FOOD SERVICE CONTRACTOR. FOOD SERVICE EQUIPMENT CONTRACTOR IS RESPONSIBLE FOR SEALING THE INSIDE OF CONDUITS WHICH PENETRATE THE CEILING OR WALL.

ELECTRICAL KEYNOTES:

1. SIMPLEX RECEPTACLE AT THE END OF CHEFS COUNTER
2. PROVIDE J-BOX AT END OF SERVING COUNTER INTERCONNECT TO SERVING COUNTER LOAD CENTER
3. ELECTRICAL CONTRACTOR TO PROVIDE EMPTY FLUSH MT'D. OCTAGONAL BOX @ +48" AFF. W/ EMPTY CONDUIT TO +2" ABOVE CEILING.
4. ELECTRICAL CONTRACTOR TO PROVIDE INTERLOCK WIRING FROM FIRE PROTECTION SYSTEMS TO ELEC. SHUNT TRIP BREAKERS.
5. INTERCONNECT J-BOX TO DUPLEX OUTLETS IN COUNTER

EXHAUST HOOD ELECTRICAL SCHEDULE

ELEC. NO.	ITEM NO.	DESCRIPTION	QTY.	VOLT.	PH	DIRECT	PLUG	NEMA	LOAD WATT	LOAD AMPS. DRAW	LOAD HP	OUTLET HEIGHT	REMARKS	NOTE(S)
H1	19	TOUCH SCREEN USER INTERFACE MOUNT +48" AFF. RECESSED IN WALL	1EA.	-	-	-	-	-	-	-	-	-	CONNECT TO ENERGY MANAGEMENT SYSTEM IN UTILITY CABINET AT END OF HOOD ITEM 19 WITH CAT-5 CABLE (NO POWER REQUIRED AT THIS LOCATION)	1 2 5
H2	19	EXHAUST HOOD (LIGHTS) & SMART CONTROLS DCV-2111	1EA.	120	1	X	-	-	-	20	-	+104"	EC TO PROVIDE CONNECTION	4 5 6
H3	19	ENERGY MANGEMNT SYSTEM DCV-2111 (ROOM SENSOR)	-	-	-	-	-	-	-	-	-	-	CONNECT TO ENERGY MANAGEMENT SYSTEM IN UTILITY CABINET AT END OF HOOD ITEM 19 LOW VOLTAGE WIRING (ROOM TEMPERATURE SENSOR CLG. MOUNTED)	5

ELECTRICAL KEYNOTES:

1. E.C. TO INTERCONNECT DCV-2111 TO MECHANICAL EQUIPMENT ON ROOF (REFER TO MECHANICAL DRAWINGS)
2. E.C. TO INTERCONNECT POWER FROM HOOD TOUCH SCREEN USER INTERFACE LOCATED ON WALL WITH DCV-2111 SMART CONTROLS
4. 120V/1 PHASE FOR LIGHTS TO ONE PRE-WIRED CONN. POINT ON HOOD FOR LIGHTS PRE-WIRED BY FACTORY.
5. REFER TO HOOD DRAWING FS5.3 FOR ELECTRICAL CONNECTIONS
6. DCV-2111 SENDS A 0-10V VDC SIGNAL (SEE FS5.3 FOR SCHEMATIC)

NOTE

FOR FOODSERVICE EQUIPMENT ELECTRICAL PLAN
SEE SHEET FS3.1

DSA File No.:
20-30

DSA Application No.:
02-120517

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120517 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

Agency Approval

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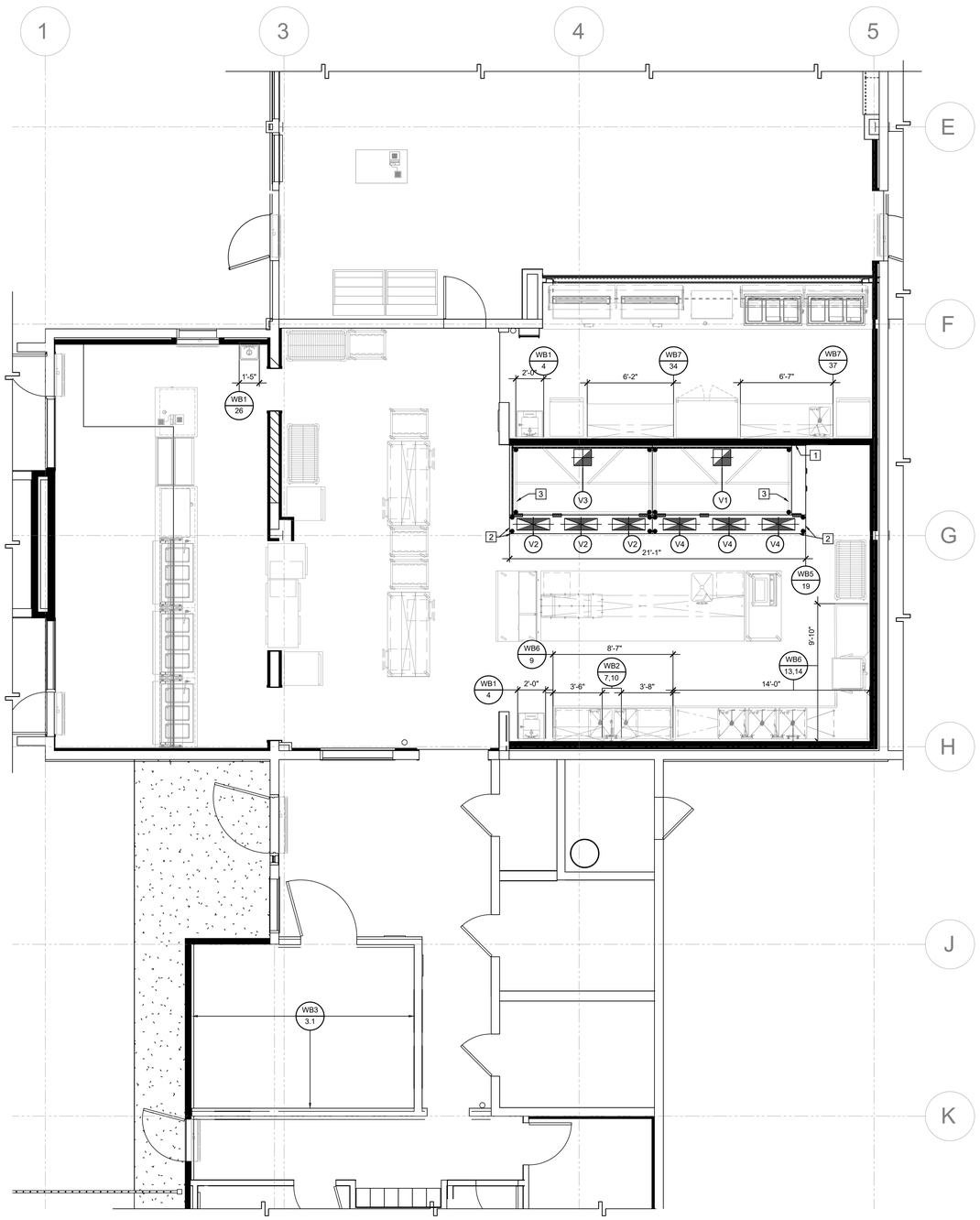
Revision

Designed By: -
Drawn By: -
Checked By: -
Reviewed By: -

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Scale: As indicated
Project Number: 2123
Date: 03/31/2023

FS3.2



FOODSERVICE EQUIPMENT MECHANICAL PLAN

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

1 / FS4.1

VENTILATING REQUIREMENTS

DUCT NO.	ITEM NO.	DESCRIPTION	ITEM QTY.	RISER SIZE HEIGHT	RISER SIZE WIDTH	RISER SIZE LENG.	CFM	S.P.-WC*	OUTLET HEIGHT	REMARKS
V1	19	EXHAUST DUCT EXHAUST HOOD	1EA.	4"	14"	15"	2220	-0.714"	108"	MAKE DUCT CONNECTION AT HOOD COLLAR REFER TO FS5.1 FOR EXHAUST HOOD DETAILS
V2	19	SUPPLY DUCT EXHAUST HOOD	3EA.	6"	10"	28"	569	0.151"	108"	MAKE DUCT CONNECTION AT HOOD COLLAR REFER TO FS5.1 FOR EXHAUST HOOD DETAILS
				6"	10"	28"	569	0.151"	108"	
				6"	10"	28"	569	0.151"	108"	
V3	19	EXHAUST DUCT EXHAUST HOOD	1EA.	4"	14"	15"	2220	-0.714"	108"	MAKE DUCT CONNECTION AT HOOD COLLAR REFER TO FS5.1 FOR EXHAUST HOOD DETAILS
V4	19	SUPPLY DUCT EXHAUST HOOD	3EA.	6"	10"	28"	569	0.151"	108"	MAKE DUCT CONNECTION AT HOOD COLLAR REFER TO FS5.1 FOR EXHAUST HOOD DETAILS
				6"	10"	28"	569	0.151"	108"	
				6"	10"	28"	569	0.151"	108"	

COOKING EXHAUST HOOD NOTES

1. - EACH AREA CONTAINING COOKING EXHAUST HOOD(S) WILL HAVE 80% MECHANICAL MAKE-UP AIR PROVIDED IN THE VOLUME OF THE AIR BEING EXHAUSTED.
2. - MAKE-UP AIR SHALL BE DELIVERED IN THE PROXIMITY OF THE EXHAUST HOOD(S) IN A MANNER NOT TO CREATE UNDUE AIR TURBULENCE IN THE WORKING AREAS.
3. - COOKING HOOD(S) EXHAUST AND MAKE-UP AIR SYSTEM(S) WILL BE CONNECTED BY AN ELECTRICAL INTER-LOCKING SWITCH.
4. - MAKE-UP AIR INTAKE MUST CLEAR AIR EXHAUST DISCHARGE BY A MINIMUM OF TEN (10) FEET, OR AS REQUIRED BY CODE(S).
5. - LOCATION OF COOKING HOOD EXHAUST DUCT(S) AND MAKE-UP AIR SYSTEM DUCT(S) ARE TO BE VERIFIED AT THE JOB SITE.
6. - IF REQUIRED BY LOCAL CODE(S), MAKE-UP AIR SYSTEM(S) SHALL BE CAPABLE OF DELIVERING TEMPERED AIR AT 70 DEGREES F..
7. - CONNECTING DUCTS FROM THE EXHAUST VENTILATORS TO THE EXHAUST AND/OR MAKE-UP AIR FANS SHALL BE SUPPLIED AND INSTALLED WITH ALL FINAL CONNECTIONS.
8. - PERFORMANCE TESTING FOR THE OPERATION OF THE TYPE 1 EXHAUST HOOD PER U.M.C. IS REQUIRED
9. - EXTRACTOR HOODS SHALL COMPLY TO THE C.M.C 2019, NFPA-96, U.L, N.S.F, AND ALL LOCAL CODES AN ORDINANCES.

WALL BACKING NOTES

1. - SEE N14/XA601FRO WALL BACKING TYPE, LENGTH AND HEIGHT AS SHOWN ON DRAWINGS.
2. - ALL WALL BACKING TO BE IN FURNISHED AND INSTALLED BY CONTRACTOR
3. - FOOD SERVICE EQUIPMENT CONTRACTOR IS TO FURNISH CONTRACTOR WITH DETAILED DRAWINGS SHOWING ALL WALL BACKING LOCATION AND SIZE.

WALL BACKING SCHEDULE

	APPLICATION	BOTTOM OF BACKING	BACKING HGT.	FASTENERS PER STUD	ANCHORAGE DETAIL
WB1 4,26	HAND SINK	+16" AFF	8" HIGH	4	C/FS8.2
WB2 7,10	DOUBLE WALL SHELF	+52" AFF / +62" AFF	8" HIGH	3	G/FS8.1
WB3 3,1	DRY STO. SHELVING	+60"AFF	8" HIGH	2	D/FS8.2
WB5 19	INSULATED WALL LINING	+76"AFF, +53"AFF, +29"AFF, +6"AFF	8" HIGH	2	I/FS8.1
WB6 9,13,14	WALL SPLASH	+80"AFF / +48"AFF	8" HIGH	2	J/FS8.1
WB8 34,37	WALL SHELF	+52" AFF	8" HIGH	3	G/FS8.1

NOTES:
1. SEE N14/XA601 FOR BACKING TYPE
2. REFER TO 1/FS4.1 FOR WALL BACKING LOCATIONS
3. DRY STO. SHELVING, FASTEN SHELVING TO BACKING WITH #14 WS.

MECHANICAL SHEET NOTES

1. 18 GA. STAINLESS STEEL WALL LINING PANELS (MINIMUM WIDTH TO BE 36") WITH 1" MINERAL WOOL BLANKET AND WIRE MESH BACKING OR CERAMIC FIBER BLANKET AND WIRE MESH BACKING SPACES OUT 1" ON NON-COMBUSTIBLE SPACERS WALL LINING TO MEET THE REQUIREMENTS OF NFPA-96 AND LOCAL CODES. WALL LINING SHALL BE FABRICATED WITH VERTICAL FLUTES EVERY 6" AS SHOWN, AND THE WIDTH OF THE EXHAUST HOOD INCLUDING FIRE SYSTEM CABINET
2. PROVIDE STAINLESS STEEL CLOSURE SKIRTING, REFER TO 3/FS5.2
3. HORIZONTAL UNISTRUT BRACING REFER TO K/FS8.2

FOODSERVICE MECHANICAL LEGEND

ABREV./SYMB.	DESCRIPTION	ABREV./SYMB.	DESCRIPTION
F.S.E.C	FOODSERVICE EQUIPMENT CONTRACTOR	1	KEYNOTE SYMBOL (SEE SHEET NOTES FS4.1)
M.C.	MECHANICAL CONTRACTOR	# / #	TYPE / ITEM — BLOCKING TYPE REFER TO FS4.1
S.F.	STAINLESS STEEL FABRICATOR		
G.C.	GENERAL CONTRACTOR		VENT TO ROOF
E.C.	ELECTRICAL CONTRACTOR		
CFM	CUBIC FEET PER MINUTE		INSULATED S/S WALL LINING 1/FS4.1 FOR LOC.
SP	STATIC PRESSURE		
	EXHAUST DUCT CONNECTION		UNISTRUT BRACING
	SUPPLY DUCT CONNECTION		HOOD HANGER ROD
V#	VENTILATING SCHEDULE REFERENCE REFER TO FS4.1 FOR SCHEDULE		

DSA File No.: *20-30*

DSA Application No.: *02-120517*

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APP: 02-120517 INC:
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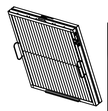
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Scale: As indicated
Project Number: 2123
Date: 03/31/2023

FS4.1

CAPTRATE SOLO FILTERS

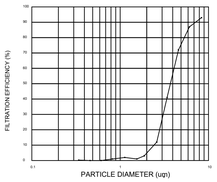




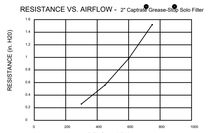
CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH

NFPA #96
NSF STANDARD #2
UL STANDARD #1046
INT. MECH. CODE (IMC)

FILTER COLLECTION EFFICIENCY



RESISTANCE VS. AIRFLOW - 2" Captrate Grease-Stop Solo Filter



SPECIFICATION: CAPTRATE GREASE-STOP SOLO FILTER

THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

FILTER IS CONSTRUCTED OF 430 STAINLESS STEEL, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

***GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 90% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

FILTER INFORMATION - CAPTRATE GREASE-STOP SOLO

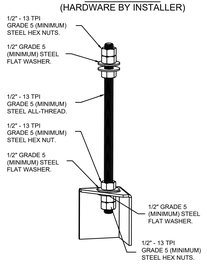
NOMINAL SIZE (H x W)	ACTUAL DIMENSIONS (H x W x D)	FREE AREA (SQ. FEET)	WEIGHT (POUNDS)	VELOCITY (FEET PER MINUTE)	STATIC PRESSURE (WATER GAUGE)
20 x 20	19-5/8" x 19-5/8" x 1-7/8"	2.28	11	100	0.25
20 x 16	19-5/8" x 15-5/8" x 1-7/8"	1.78	8.9	125	0.35
16 x 20	15-5/8" x 19-5/8" x 1-7/8"	1.78	9.1	150	0.45
16 x 16	15-5/8" x 15-5/8" x 1-7/8"	1.39	7.4	175	0.75
12 x 20	11-5/8" x 19-5/8" x 1-7/8"	1.23	6.8	200	0.90
12 x 16	11-5/8" x 15-5/8" x 1-7/8"	0.96	5.6	225	1.00
10 x 20	9-5/8" x 19-5/8" x 1-7/8"	1.00	5.6	250	1.30
10 x 16	9-5/8" x 15-5/8" x 1-7/8"	0.78	4.6	275	1.50

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH:

- NFPA #96
- NSF
- ETL Listed
- CALIFORNIA MECHANICAL CODE
- INTERNATIONAL MECHANCIAL CODE

BUILDING CODES

HOOD CORNER HANGING ANGLE (HARDWARE BY INSTALLER)



ASSEMBLY INSTRUCTIONS

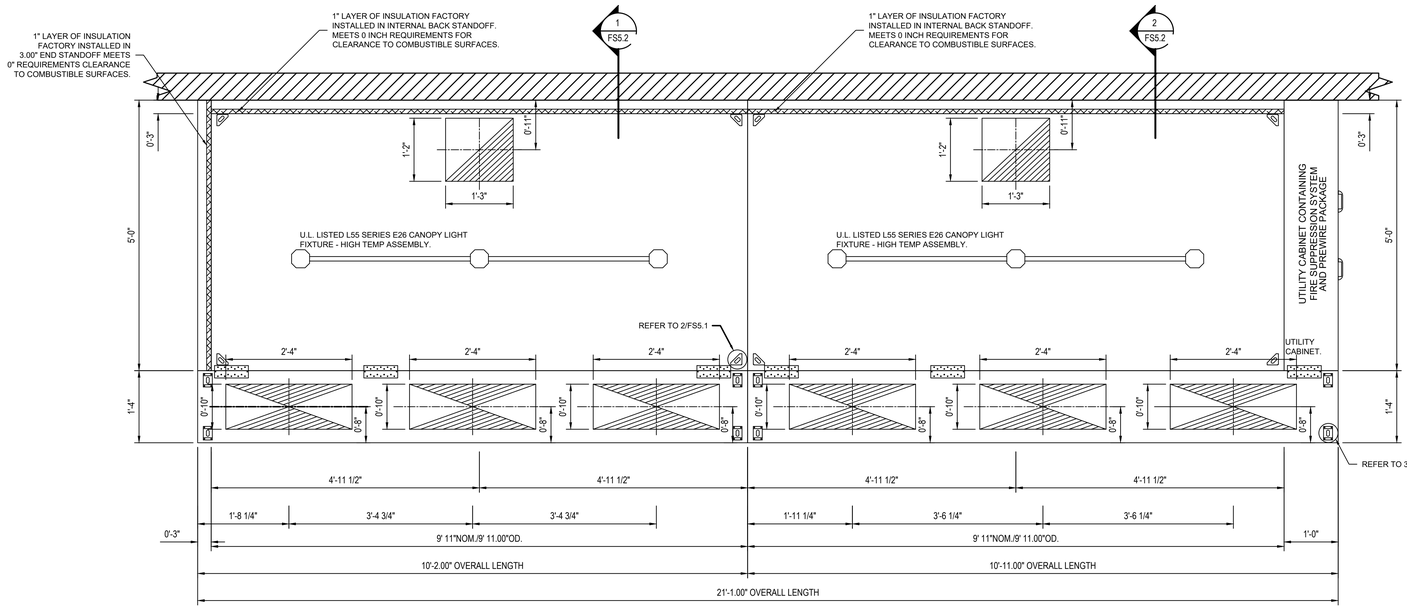
HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

ND-2 HANGING ANGLE DETAIL

HANGING ANGLES WILL BE LOCATED IN THE FOLLOWING LOCATIONS FOR WALL CANOPIES

HOOD STYLE	DIM FROM REAR	DIM FROM FRONT (24" High Hood)	DIM FROM SIDES (24" High Hood)
ND-2 (-WI) Exhaust only	4.125"	2.25"	2.25"

HANGING ANGLE LOCATIONS

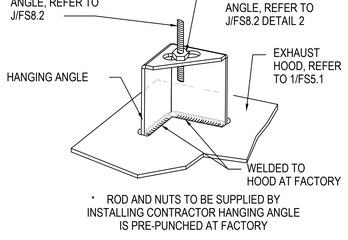


PLAN VIEW - HOOD #1 (19L)
9' 11.00" LONG 6024ND-2-PSP-F

PLAN VIEW - HOOD #2 (19R)
9' 11.00" LONG 6024ND-2-PSP-F

EXHAUST HOOD PLAN VEIW

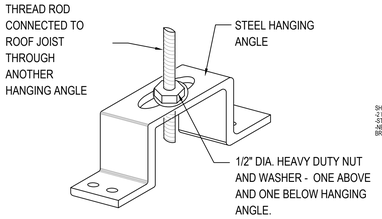
1 FS5.1



* ROD AND NUTS TO BE SUPPLIED BY INSTALLING CONTRACTOR HANGING ANGLE IS PRE-PUNCHED AT FACTORY

ND-2 HANGING ANGLE DETAIL

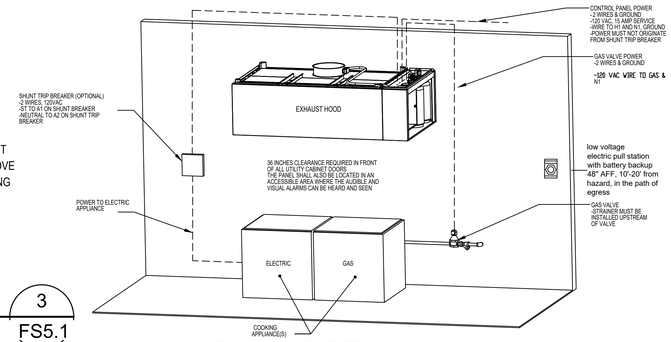
2 FS5.1



NOTE: ROD AND NUTS TO BE SUPPLIED BY INSTALLING CONTRACTOR. HANGING ANGLE IS PRE-PUNCHED AT FACTORY

HANGING ANGLE

3 FS5.1



Typical UL300 "Tank" system layout

Captive Aire UL300 "Tank" system with battery backup and electronic detection will monitor and turn off appliances and gas valve if the system's Fenwal sensor or push station is disabled.

In event of a power outage, "Tank" system will use battery backup to monitor max temp of temp sensor, rate of rise of temp sensor, and push station. It will shut down electric and gas under hood and will discharge system if there is a fire.

HOOD INFORMATION - JOB#5583488

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S) WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG END TO END	ROW
1	19L	6024 ND-2-PSP-F	CAPTIVEAIRE	9' 11"	600 DEG	I	HEAVY	224	2220	14"	15"	4"		2220	1522	-0.714"	1709	304 SS 100%	LEFT	ALONE
2	19R	6024 ND-2-PSP-F	CAPTIVEAIRE	9' 11"	600 DEG	I	HEAVY	224	2220	14"	15"	4"		2220	1522	-0.714"	1709	304 SS 100%	RIGHT	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	UTILITY CABINET(S) LOCATION	SIZE	FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1	19L	CAPTRATE SOLO FILTER	7	20"	16"	85% SEE FILTER SPEC	3	L55 SERIES E26	NO							YES	561 LBS
2	19R	CAPTRATE SOLO FILTER	7	20"	16"	85% SEE FILTER SPEC	3	L55 SERIES E26	NO	RIGHT	12"x60"x24"	TANK FS	4.0/4.0			YES	848 LBS

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S) WIDTH	LENG	DIA	CFM	SP
1	19L	Front	122"	16"	6"	MUA	10"	28"		569	0.151"
						MUA	10"	28"		569	0.151"
						MUA	10"	28"		569	0.151"
2	19R	Front	131"	16"	6"	MUA	10"	28"		569	0.151"
						MUA	10"	28"		569	0.151"
						MUA	10"	28"		569	0.151"

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	19L	FIELD WRAPPER 17.00" HIGH FRONT, LEFT.
		LEFT END STANDOFF (FINISHED) 3" WIDE 60" LONG INSULATED.
		INSULATION FOR BACK OF HOOD.
2	19R	FIELD WRAPPER 17.00" HIGH FRONT, RIGHT.
		INSULATION FOR BACK OF HOOD.

REFER TO FS8.2 FOR ALL EXHAUST HOOD ATTACHMENT BRACING DETAILS

DSA File No.: *20-30*

DSA Application No.: *02-120517*

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120517 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

Agency Approval

AMD FOODSERVICE DESIGN
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THOMAS JEFFERSON M. S. KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
Madera, CA
Project

BUILDING C
FOODSERVICE EQUIPMENT EXHAUST HOOD DETAILS
Drawing

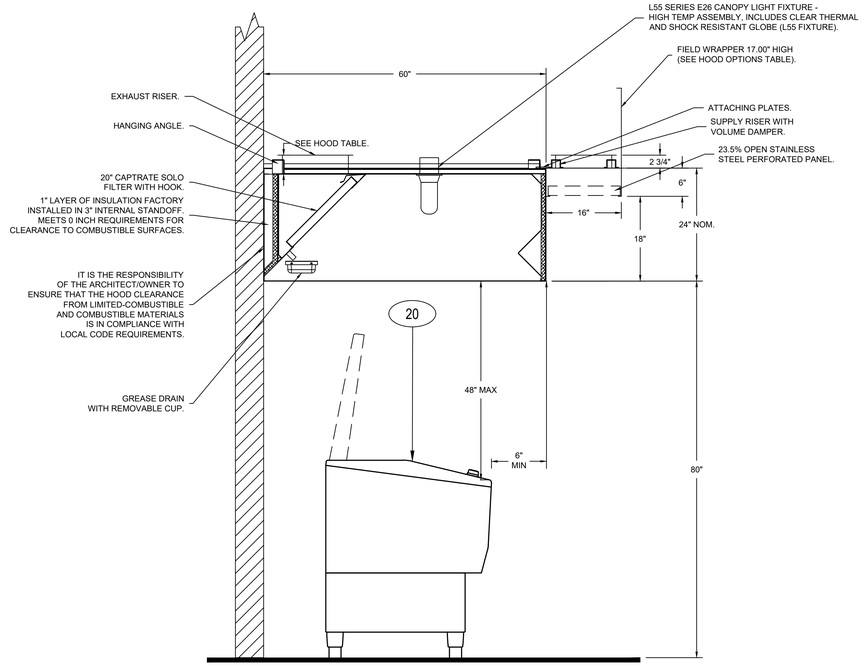
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LICENSED ARCHITECT RICHARD J. AVILA No. C26235 Exp. 10-31-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

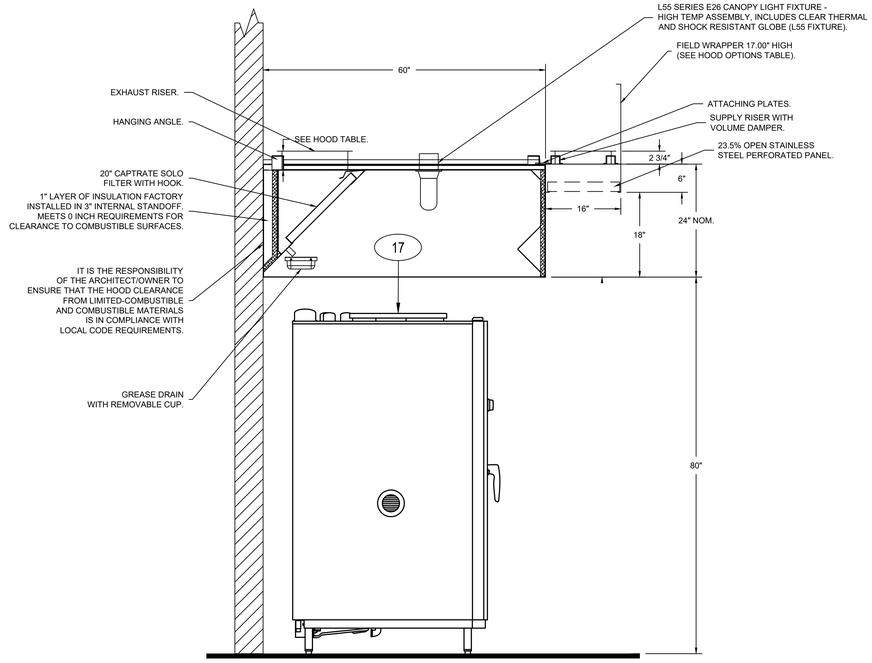
	Designed By: -	Copyright 2023 Darden Architects
Scale: As indicated	Drawn By: -	
Project Number: 2123	Checked By: -	*FS5.1*
Date: 03/31/2023	Reviewed By: -	



SECTION VIEW - MODEL 6024ND-2-PSP-F
HOOD - #1 (19L)

SECTION VEIW — 1 / FS5.2

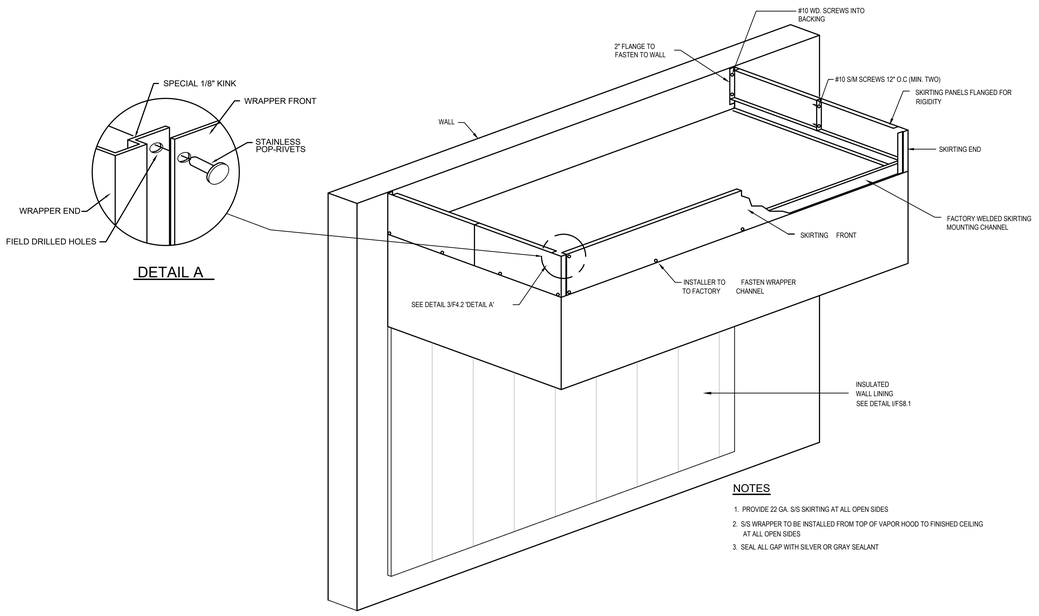
SCALE : NONE



SECTION VIEW - MODEL 6024ND-2-PSP-F
HOOD - #2 (19R)

SECTION VEIW — 2 / FS5.2

SCALE : NONE



NOTES

1. PROVIDE 22 GA. S/S SKIRTING AT ALL OPEN SIDES
2. S/S WRAPPER TO BE INSTALLED FROM TOP OF VAPOR HOOD TO FINISHED CEILING AT ALL OPEN SIDES
3. SEAL ALL GAP WITH SILVER OR GRAY SEALANT

TYP. WALL LINING AND CEILING CLOUSER SKIRTING — 3 / FS5.2

SCALE : NONE

DSA File No.:
20-30

DSA Application No.:
02-120517

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Architect

No.	Revision/Submission	Date

Revision

	Designed By: -	Copyright 2023 Darden Architects
Scale: As indicated	Drawn By: -	
Project Number: 2123	Checked By: -	*FS5.2*
Date: 03/31/2023	Reviewed By: -	

ELECTRICAL PACKAGE - JOB#5583488

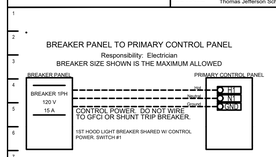
NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		TYPE	Φ	HP	VOLT	FLA
1	19.1	DCV-2111	WALL MOUNT IN SS BOX	08 - SHIP LOOSE W/ PREWIRE	1 LIGHT 1 FAN	SMART CONTROLS DCV					

Controls is only supplying a 0-10v speed signal. VFD for the fans supplied by others.

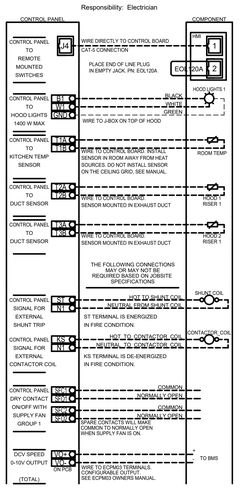
JOB NO 5583488 | MODEL NUMBER DCV-2111 | JOB NAME Thomas Jefferson School | DRAWN BY | DATE 8/3/2022 | SCHEMATIC TYPE INSTALL | DWG NO ECP #1-1

DESCRIPTION OF OPERATION:
Demand Control Ventilation, w/ control for 2 Exhaust Fans, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Fans modulate based on duct temperature. INVERTER DUTY 3 PHASE MOTOR REQUIRED FOR USE WITH VFD. Room temperature sensor shipped loose for field installation.Verify distance between VFD and Motor; additional cost could apply if distance exceeds 50 feet.

BREAKER PANEL TO PRIMARY CONTROL PANEL
Responsibility: Electrician
BREAKER SIZE SHOWN IS THE MAXIMUM ALLOWED

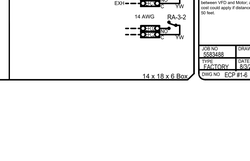


CONTROL PANEL TO ACCESSORY ITEMS
Responsibility: Electrician



CONTROL PANEL TO EXTERNAL SWITCH
H1
N1
SIGNAL SWITCH THROUGH BMS WILL ACTIVATE ZONE1 FANS AND LIGHTS
BMS SWITCH
CONTROL PANEL DRY CONTACT ON/OFF WITH EXHAUST FAN GROUP 1
EF1A/C
EF1B/C
EF1C/C
COMMON TO NORMALLY OPEN
NORMALLY CLOSED
NORMALLY OPEN
GREASE CONTACTS WILL MAKE COMMON TO NORMALLY OPEN WHEN EXHAUST FAN IS ON.
CONTROL PANEL TO GAS VALVE 24V DC ONLY
GV1A/C
GV1B/C
POSITIVE TO GAS VALVE NEGATIVE
ONLY ENERGIZED THROUGH LCD HMI WHEN FIRE SYSTEM ARMED. (NOT NEEDED IF USING 120V GAS VALVE)
GAS SOLENOID
CONTROL PANEL SPARE FIRE SYSTEM DRY CONTACT
SPC
SPA/C
SPB/C
DRY CONTACT CLOSES ON CALL FOR SPARE. GREASE CONTACTS WILL MAKE COMMON TO NORMALLY OPEN WHEN SPARE IS ON.
COMMON
NORMALLY CLOSED
NORMALLY OPEN
CAN BE USED TO DISABLE EQUIPMENT OR PROVIDE SIGNALS. (NOT FOR BUILDING FIRE ALARM WHICH MUST BE WIRED TO THE FIRE ALARM ALARM INITIATING SWITCH LOCATED IN ANSUL AUTOMAN)

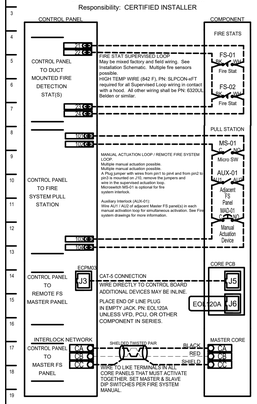
CONTROL PANEL TO FIRE SYSTEM
Responsibility: ALARM CONTRACTOR



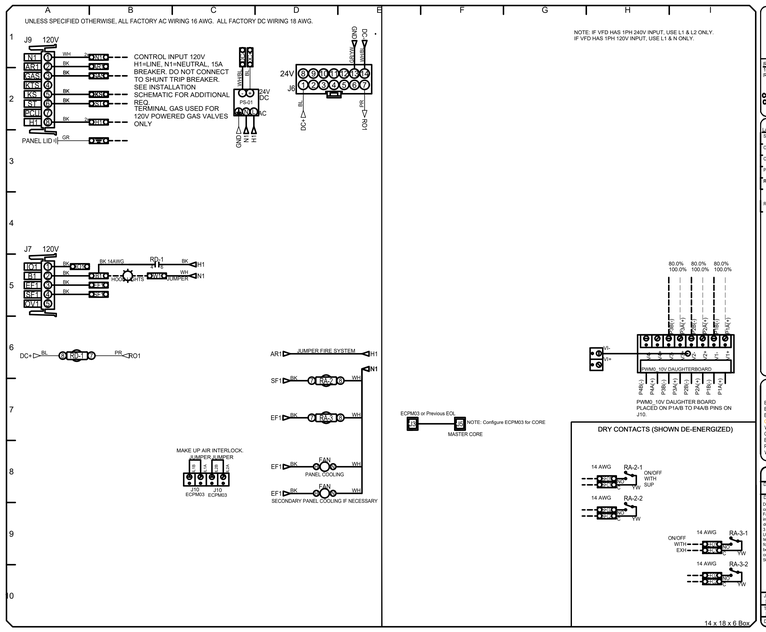
JOB NO 5583488 | MODEL NUMBER DCV-2111 | JOB NAME Thomas Jefferson School | DRAWN BY | DATE 8/3/2022 | SCHEMATIC TYPE INSTALL | DWG NO ECP #1-2

DESCRIPTION OF OPERATION:
Demand Control Ventilation, w/ control for 2 Exhaust Fans, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Fans modulate based on duct temperature. INVERTER DUTY 3 PHASE MOTOR REQUIRED FOR USE WITH VFD. Room temperature sensor shipped loose for field installation.Verify distance between VFD and Motor; additional cost could apply if distance exceeds 50 feet.

CONTROL PANEL TO FIRE SYSTEM
Responsibility: CERTIFIED INSTALLER



These products and others are available for demonstration at the Northern CA display center
--For more information or questions Contact--
Captive Aire Systems
1110 Burnett Ave, Suite G, Concord, CA 94520
Phone: (925)962-1999, Fax (925)566-8565
Email reg92@captiveaire.com



FACTORY WIRING SCHEMATIC
CIRCUIT BOARDS
ECPM03
DCV Rev. 2.14.00
HMI Rev. 2.14.00

COMPONENT LIST

Item	Description
ST-x	Starter wires
OL-X	Overload wires
C-X	Contactor wires
PS-1	Power Sup. 24VDC 120V Prim. 2A DC
RA-x	120V Relay DPDT 24 VDC Coil
RD-x	24VDC Light Relay 24 VDC Coil

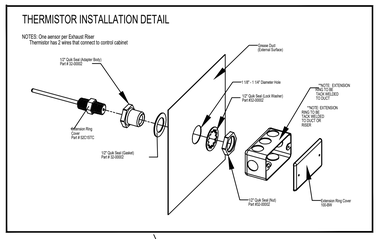
LEGEND
FIELD WIRING
FACTORY WIRING
BK-BLACK YW-YELLOW
BL-BLUE GY-GREY
BR-BROWN PR-PURPLE
OR-ORANGE RD-RED
WH-WHITE GR-GREEN
GN-GREEN/YELLOW
SLRD-SLATE/RED STRIPE
RDGN-RD/GN STRIPE
WHBL-WH/BL STRIPE

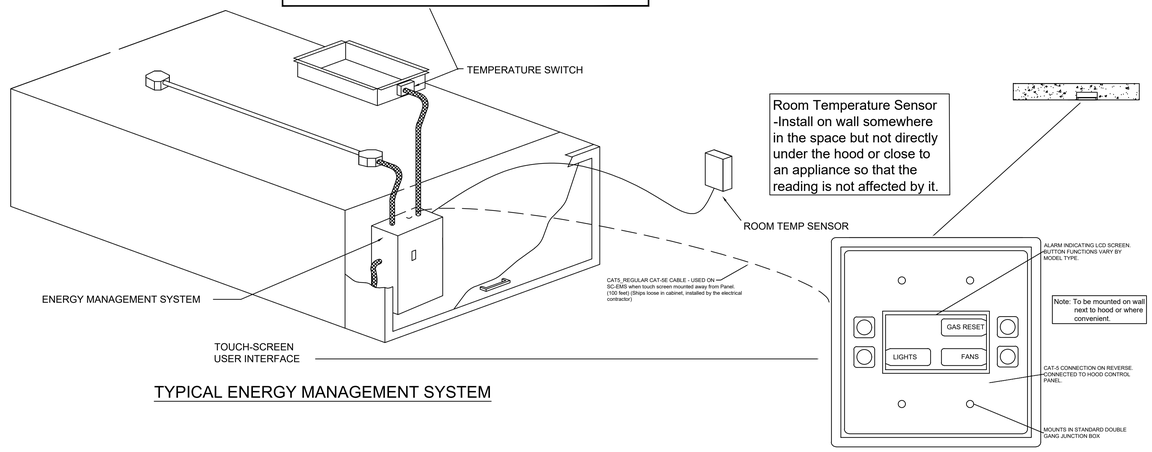
Job Name: Thomas Jefferson
Drawing Title: DCV-2111
DESCRIPTION OF OPERATION
Demand Control Ventilation, w/ control for 2 Exhaust Fans, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Fans modulate based on duct temperature. INVERTER DUTY 3 PHASE MOTOR REQUIRED FOR USE WITH VFD. Room temperature sensor shipped loose for field installation.Verify distance between VFD and Motor; additional cost could apply if distance exceeds 50 feet.

JOB NO	DRAWN BY
5583488	
FACTORY	DATE 8/3/2022
DWG NO ECP #1-3	

CABINET MOUNTED DCV WITH WALL SWITCHING

THERMISTOR INSTALLATION DETAIL





TYPICAL ENERGY MANAGEMENT SYSTEM

DSA File No.: 20-30
DSA Application No.: 02-120517

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LICENSED ARCHITECT ANTONIO J. ALVAREZ No. C26235 Rev. 10-31-23 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: -	Copyright 2023 Darden Architects
Scale: As indicated	Drawn By: -	FS5.3
Project Number: 2123	Checked By: -	
Date: 03/31/2023	Reviewed By: -	

JOB NO	MODEL NUMBER	DRAWN BY	SCHEMATIC TYPE	DESCRIPTION OF OPERATION:
5583488	DCV-2111		INSTALL	Fire System #1 TANK FS - 4.0/4.0. Tank-based Fire Protection System equipped with Electronic Detection utilizing CORE board as a Listed Release Mechanism. Installed in Hood Utility Cabinet with integral hood prewire panel.
	JOB NAME Thomas Jefferson School	DATE 8/2/2022	DWG NO ECP #1-3	

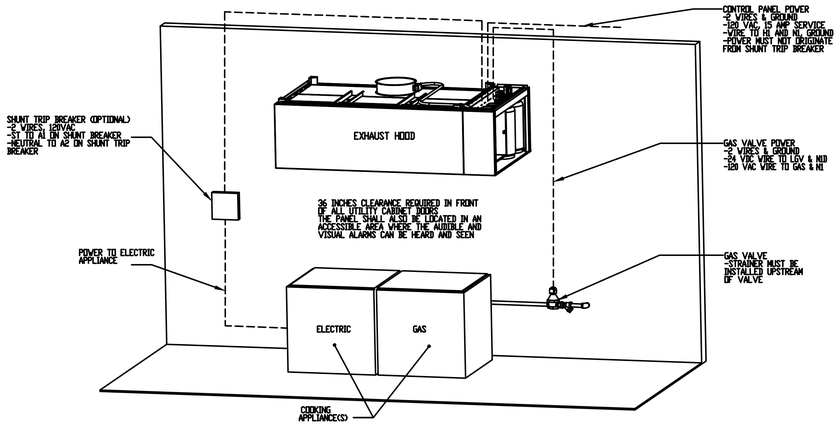
TANK PROTECTION ELECTRICAL DETAIL

02/10/2021 Rev. 2

FS-1: MASTER

ELECTRICIAN
1. WIRE MAIN CONTROL PANEL PER INCLUDED SCHEMATIC
2. WIRE ALL FANS PER INCLUDED SCHEMATIC
3. WIRE SHUNT TRIP BREAKER (OPTIONAL)
4. WIRE UDS APPLIANCE KILL SWITCH, IF EQUIPPED (OPTIONAL)
5. WIRE GAS VALVE

ELECTRICAL CONTRACTOR REQUIREMENT					
ITEM	CONNECTION IN PANEL	CONNECTION IN DEVICE	VOLTAGE	AMPERAGE	COMMENTS
SHUNT TRIP BREAKER (OPTIONAL)	ST & N1	BREAKER COIL (A1 & A2)	120 VAC	< 4 AMPS	ST TO A1 ON SHUNT BREAKER COIL, AND NEUTRAL TO A2 ON SHUNT TRIP BREAKER COIL
CONTROL PANEL POWER	H1 & N1 + GROUND	CIRCUIT BREAKER	120 VAC	15 AMPS	CONTROL PANEL POWER MUST NOT BE RUN THROUGH SHUNT TRIP BREAKER
UDS APPLIANCE KILL SWITCH (OPTIONAL)	KTS & N1	KTS & N1	120 VAC	< 4 AMPS	KILL SWITCH TERMINALS MUST BE IN SERIES WITH OTHER KILL SWITCHES
REMOTE 120VAC ANSUL AUTOMAN (OPTIONAL)	AU1, AU2	SOLENOID	120 VAC	< 6 AMPS	120V TO AU1, AU2 TO ANSUL ELECTRIC AUTOMAN, ANSUL SOLENOID TO NEUTRAL
GAS VALVE	LGV & N1D (IF 24 VDC) GAS & N1 (IF 120 VAC)	RED/RED/GREEN	24 VDC OR 120 VAC	< 1.0 AMPS	IF 24 VDC - 2 WIRES & GROUND, N1D TO RED, LGV TO RED, AND GREEN TO GROUND IF 120 VAC - 2 WIRES & GROUND GAS TO RED, N1 TO RED, AND GREEN TO GROUND



NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

JOB NO	MODEL NUMBER	DRAWN BY	SCHEMATIC TYPE	DESCRIPTION OF OPERATION:
5583488	DCV-2111		INSTALL	Fire System #1 TANK FS - 4.0/4.0. Tank-based Fire Protection System equipped with Electronic Detection utilizing CORE board as a Listed Release Mechanism. Installed in Hood Utility Cabinet with integral hood prewire panel.
	JOB NAME Thomas Jefferson School	DATE 8/2/2022	DWG NO ECP #1-4	

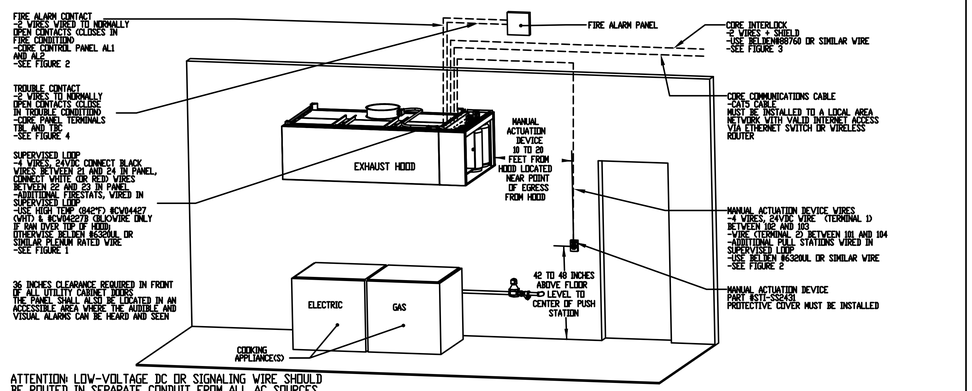
TANK PROTECTION LOW-VOLTAGE DETAIL

02/10/2021 Rev. 2

FS-1: MASTER

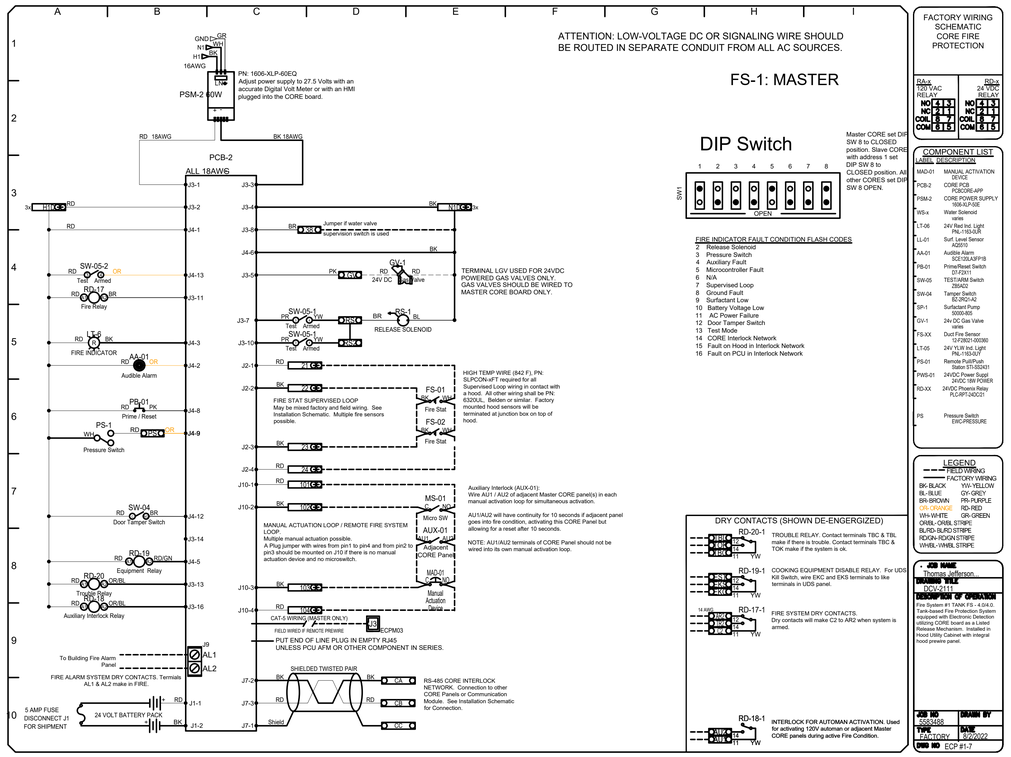
ALARM CONTRACTOR:
1. WIRE MANUAL ACTUATION DEVICE(S), REMOTE FIRESTAT(S), CORE INTERLOCK(S), FIRE SENSOR(S) AND FIRE ALARM CONTACTS
2. COMPLETE FINAL HOOKUP OF SYSTEM
3. VERIFY FINAL FIRE SYSTEM TEST

ALARM CONTRACTOR REQUIREMENT					
ITEM	CONNECTION IN PANEL	CONNECTION ON DEVICE	VOLTAGE	AMPERAGE	COMMENTS
MANUAL ACTUATION DEVICE(S)	101 AND 104 102 AND 103	1 & 2	24 VDC	< 1.0 AMPS	WIRE MANUAL ACTUATION DEVICE TERMINAL 1 BETWEEN CORE PANEL TERMINALS 102 AND 103 WIRE MANUAL ACTUATION DEVICE TERMINAL 2 BETWEEN CORE PANEL TERMINALS 101 AND 104 JUMPER 101 TO 104 AND 102 TO 103 IF NO MANUAL ACTUATION DEVICE IS INSTALLED
MANUAL ACTUATION DEVICE COVER	N/A	N/A	N/A	N/A	MANUAL ACTUATION DEVICE COVER MUST BE INSTALLED IF SURFACE MOUNTED, USE COVER EXTENSION STI-0358B
REMOTE FIRESTAT SENSOR(S)	21 AND 24 22 AND 23	BLACK AND WHITE	24 VDC	< 1.0 AMPS	WIRE FIRE SENSOR WHITE WIRES BETWEEN HOOD CORE PANEL TERMINALS 22 AND 23 WIRE FIRE SENSOR BLACK WIRE BETWEEN HOOD CORE PANEL TERMINALS 21 AND 24 HIGH TEMP (345°F) #CW04427 (WHT) & #CW04278 (BLK) WIRE OR SIMILAR ONLY. IF RAM OVER TOP OF HOOD, OTHERWISE BELDEN #6329UL OR SIMILAR PLENUM RATED WIRE. SEE FIGURE 1
FIRE ALARM CONTACT	AL1, AL2	VARIES	50V MAX (AC/DC)	UP TO 1 AMP	FIRE ALARM RELAY CONTACTS FOR BUILDING FIRE ALARM LOCATED IN THE CORE ELECTRICAL CONTROL PANEL
CORE INTERLOCK(S)	ILA, ILB, ILC	ILA, ILB, ILC	RS-485 COMMUNICATIONS SIGNAL		CORE SYSTEM (1) ILA, TO CORE SYSTEM (2) ILA CORE SYSTEM (1) ILB, TO CORE SYSTEM (2) ILB CORE SYSTEM (1) ILC, TO CORE SYSTEM (2) ILC USE BELDEN® 88760 OR SIMILAR WIRE
TROUBLE CONTACT	TBC, TBL, TOK	VARIES	MAX 120 VAC	UP TO 6 AMPS	WIRE TO TBL & TBC NORMALLY OPEN CONTACT, CLOSES IN TROUBLE CONDITION
CORE COMMUNICATIONS CABLE	RJ-45 Jack	INTERNET CONNECTION	SIGNAL	<1.0 AMPS	TYPICAL CONNECTION CAT5 CABLE TO LOCAL AREA NETWORK VIA ETHERNET SWITCH OR WIRELESS ROUTER WITH VALID INTERNET CONNECTION



ATTENTION: LOW-VOLTAGE DC OR SIGNALING WIRE SHOULD BE ROUTED IN SEPARATE CONDUIT FROM ALL AC SOURCES

NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS



FACTORY WIRING SCHEMATIC
CORE FIRE PROTECTION

RA-x 120 VAC RELAY		RD-x 24 VDC RELAY	
NO	4 3	NO	4 3
NC	2 1	NC	2 1
COIL	6 7	COIL	6 7
COM	8 1 5	COM	8 1 5

COMPONENT LIST

LABEL	DESCRIPTION
MAD-01	MANUAL ACTIVATION DEVICE
PCB-2	CORE PCB PCBCORE-APP
PSM-2	CORE POWER SUPPLY 1606-XLP-50E
WS-x	Water Solenoid varies
LT-06	24V Red Ind. Light PNL-1183-0UR
LL-01	Surf. Level Sensor AQS10
AA-01	Audible Alarm SOT-03UUFP1B
PB-01	Prime/Reset Switch DT-F2011
SW-05	TEST/ARM Switch 2BA22
SW-04	Tamper Switch RI-CNO-A2
SP-1	Surfactant Pump 24V-DC
GV-1	24 VDC Gas Valve AQS10
FS-XX	Duct Fire Sensor 10-F28021-00030
LT-06	24V YLW Ind. Light PNL-1183-0UT
PS-01	Remote Pull/Push Station STI-SS2431
PWS-01	24VDC Power Suppl 24VDC 18W PONER
RD-XX	24VDC Phoenix Relay PLC-RPT-24DC/21
PS	Pressure Switch EWC-PRESSURE

LEGEND
FIELD WIRING
FACTORY WIRING
BK-BLACK YW-YELLOW
BL-BLUE GY-GREY
BR-BROWN PR-PURPLE
OR-ORANGE RD-RED
WH-WHITE GR-GREEN
OR/BL-OR/BL STRIPE
BL/RD- BL/RD STRIPE
RD/GN-RD/GN STRIPE
WH/BL-WH/BL STRIPE

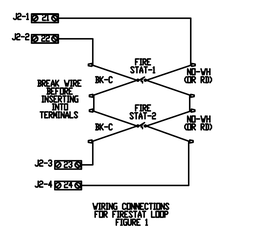
JOB NAME Thomas Jefferson
DRAWING TITLE DCV-2111
SCHEMATIC FOR OPERATION
Fire System #1 TANK FS - 4.0/4.0. Tank-based Fire Protection System equipped with Electronic Detection utilizing CORE board as a Listed Release Mechanism. Installed in Hood Utility Cabinet with integral hood prewire panel.
JOB NO 5583488 | DRAWN BY
TYPE FACTORY | DATE 8/2/2022
DWG NO ECP #1-7

JOB NO	MODEL NUMBER	DRAWN BY	SCHEMATIC TYPE	DESCRIPTION OF OPERATION:
5583488	DCV-2111		INSTALL	Fire System #1 TANK FS - 4.0/4.0. Tank-based Fire Protection System equipped with Electronic Detection utilizing CORE board as a Listed Release Mechanism. Installed in Hood Utility Cabinet with integral hood prewire panel.
	JOB NAME Thomas Jefferson School	DATE 8/2/2022	DWG NO ECP #1-5	

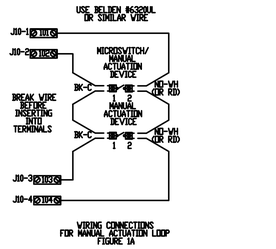
TANK PROTECTION LOW-VOLTAGE FIGURES

02/10/2021 Rev. 17

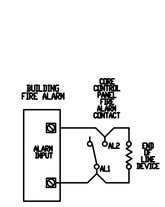
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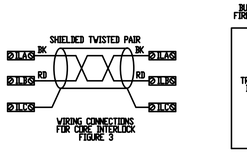
WIRING CONNECTIONS FOR FIRESTAT LOOP
FIGURE 1

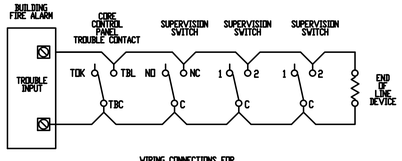


WIRING CONNECTIONS FOR MANUAL ACTUATION LOOP
FIGURE 1A



WIRING CONNECTIONS FOR FIRE ALARM CONTACT
FIGURE 2





WIRING CONNECTIONS FOR TROUBLE CONTACT
FIGURE 4

NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

ATTENTION: LOW-VOLTAGE DC OR SIGNALING WIRE SHOULD BE ROUTED IN SEPARATE CONDUIT FROM ALL AC SOURCES

DSA File No.: 20-30

DSA Application No.: 02-120517

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MADERA UNIFIED SCHOOL DISTRICT
Madera, CA
Project

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FOODSERVICE EQUIPMENT EXHAUST HOOD DETAILS
Drawing

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Architect

No.	Revision/Submission	Date

Revision

	Designed By: -	Copyright 2023 Darden Architects
Scale: As indicated	Drawn By: -	FS5.4
Project Number: 2123	Checked By: -	
Date: 03/31/2023	Reviewed By: -	

FIRE SYSTEM INFORMATION – JOB#5583488

FIRE SYSTEM NO	TAG	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0/4.0	31	FIRE CABINET RIGHT	RIGHT, HOOD 2

FIRE SYSTEM PARTS LIST KEY

FIRE SYSTEM NO	TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
1		0 - 0 - 12-F28021-32144-OT-360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. NO, CLOSE ON TEMP RISE AT 360°F.	2	0
		0 - 0 - 87-120042-001 SECONDARY ACTUATOR VALVE (SVA) - SINGLE ACTUATOR, REQUIRES PRIMARY RELEASE ACTUATOR, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-120045-001 HOSE, SECONDARY ACTUATOR HOSE, 7.5" BRAIDED STAINLESS STEEL, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-300001-001 TANK - PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	2	0
		0 - 0 - 87-300030-001 PRIMARY ACTUATOR KIT (PAK) - ACTUATOR AND RELEASE SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-300033-001 DIN CONNECTOR, CANFIELD PART #5J560-201-EU0A, TANK FIRE SUPPRESSION, SUBMINATURE SOLENOID CONNECTION (CED VENDOR 30377).	1	0
		0 - 0 - 87-300152-001 HARDWARE, SVA BOLTS, TANK FIRE SUPPRESSION.	8	0
		0 - 0 - 98694A115 HARDWARE, DATANKLOCK LOCKING BRACKET SQUARE NUTS 5/16" ZINC, TANK FIRE SUPPRESSION.	4	0
		0 - 0 - A0034332 JUNCTION BOX FOR MANUAL PULL STATION. 1.5" DEEP BACK BOX, RED COLOR.	1	0
		0 - 0 - DATANKLOCK DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - TANK STRAP TANK STRAP - USED FOR TANK FIRE SUPPRESSION.	6	0
		0 - 0 - TFS-UCTANKBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - WK-283952-000 DISCHARGE ADAPTER, TANK FIRE SUPPRESSION.	2	0
		34 - 34 - A0034331 24VDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT. RED COLOR.	1	0

NOTES
- FIELD PIPE DROPS AS SHOWN
  PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
- IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.

- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.

- OL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS

JOB #: 5583488.
JOB NAME: THOMAS JEFFERSON SCHOOL.

SYSTEM SIZE: TANK-SP-2 TOTAL FP REQUIRED: 31.
HOOD # 1 9' 11.00" LONG x 60" WIDE x 24" HIGH.
RISER # 1 SIZE: 14" x 15".
HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.
HOOD # 2 9' 11.00" LONG x 60" WIDE x 24" HIGH.
RISER # 1 SIZE: 14" x 15".
HOOD # 2 METAL BLOW-OFF CAPS INCLUDED.

- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

LEGEND – FIRE CABINET TANK SYSTEM

1 4 GALLON TANK.
2 PRIMARY ACTUATOR RELEASE.
3 SECONDARY ACTUATOR RELEASE.
4 PRESSURE SUPERVISION SWITCH.
5 PRIMARY HOSE ASSEMBLY.
6 SECONDARY HOSE ASSEMBLY.
7 REMOTE MANUAL ACTUATION DEVICE.

NOZZLE CHART			
20FP PER TANK X 2 TANKS = 40FP			
NOZZLE	FP	QTY	TTL FP
3070-3/8-SS10	= 4FP	4	16FP OUT OF 40FP
OL-F	= 5FP	3	15FP OUT OF 40FP
Total			31FP OUT OF 40FP

Coverage Exceptions

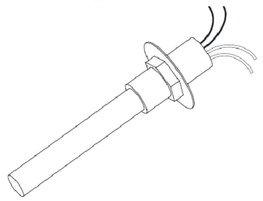
Table 4 - Overlapping Protection 4 nozzles per tank (20 flow points), 30" nozzle spacing

Hazard	Fuel Source	Maximum Depth of Cooking Surfaces	Maximum Length of Cooking Surfaces	Maximum Height of Fuel
Deep Fat/Industrial Fryers (with or w/o Drip-board)	Gas or Electric	34" deep	Unlimited	N/A
Pressure Fryers*	Gas or Electric	34" deep	Unlimited	N/A
Tilt Skillet	Gas or Electric	34" deep	Unlimited	N/A
Wok	Gas or Electric	Greater than 24", up to 30" diameter	30 inch diameter	9-1/2" deep

Firestat (Heat) Detector

The Firestat (Fenwal Detect-a-Fire) is a listed electric thermal detector available in a variety of temperature settings and used to actuate the TANK Fire Suppression extinguishing system automatically. When a Firestat senses a temperature higher than its setpoint, the Firestat contacts will close and energize the TANK Fire Suppression system via the control panel.

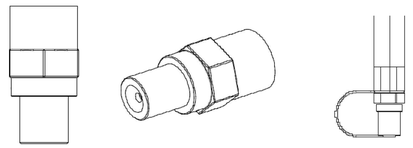
Figure 10 - Firestat



Nozzles

The nozzle (p/n 3070-3/8H-SS10) is a 4 flow nozzle and is used for plenum, duct, and dedicated appliance coverage (e.g., salamanders, upright broilers, chain broilers, and appliance with upright obstructions). The nozzles include a cap (p/n 3074-1-1). The cap prevents contamination from entering the pipe network and is designed to pop-off upon system discharge, allowing the agent to flow to the protected hazard area. Refer to **"Duct and Plenum Protection" on page 14**.

Figure 6 - Fire System Nozzle



FIRE SYSTEM NOTES

GENERAL
CUSTOMER RESPONSIBLE FOR ADDITIONAL LABOR AND PARTS CHANGES AS A RESULT OF COOKING EQUIPMENT LAYOUT CHANGES OR MISINFORMATION AFTER RELEASE OF ORDER.

CUSTOMER RESPONSIBLE FOR ADDITIONAL TRIPS BY FIRE SYSTEM DISTRIBUTOR DUE TO JOB SITE DELAYS.

UNION LABOR CHARGES, IF REQUIRED, ARE EXTRA.

GAS VALVE
ELECTRICAL GAS VALVE IS TO BE INSTALLED BY PLUMBING CONTRACTOR. PLUMBING PERMIT REQUIRED FOR GAS VALVE INSTALLATION.

ELECTRIC SHUT OFF
ELECTRICAL COOKING EQUIPMENT MUST BE SHUT OFF WHEN FIRE SYSTEM IS ACTIVATED. ELECTRICAL CONTRACTOR IS TO PROVIDE SHUT OFF CONTACTS OR SHUNT TRIP BREAKERS. THE DESIGN OF THE FIRE SYSTEM SHALL COMPLY WITH S.M.A.C.N.A. GUIDELINES FOR SEISMIC RESTAINTS OF MECHANICAL SYSTEMS. O.S.H.P.D. APPROVED ANCHORAGE R-0010 SUPPORTS AND BRACING OF PIPE & CONDUIT.

IF APPLICABLE TO LOCAL CODE
EXISTING FIRE ALARM SYSTEM MUST BE INTERCONNECTED TO THE FIRE SYSTEM. SYSTEM HAS AN ALARM POINT AND TROUBLE.

FIRE SUPPRESSION SYSTEM TEST
THE TEST WILL BE CONDUCTED IN FRONT OF A SYSTEM INSPECTOR WITH A NITROGEN CARTRIDGE WITH BALLOONS COVERING THE SYSTEM NOZZLES. THE TEST WILL BE CONDUCTED SIMULATING THE REMOTE AND AUTOMATIC ACTUATION.

REMOTE PULL STATION
DEEP SINGLE GANG BOX WITH 1/2 EMT RUN BACK TO HOOD CONTROLS 48" ABOVE FINISHED FLOOR.

System Designed by
Matt Eidson
Tank Certified Designer
12/14/21 Certificate

General Notes:

1: All Installation procedures are in compliance with manufacturer's specifications and in accordance with NFPA17A (2016) and NFPA96 (2016) standards.

2: Remote pull station is mounted no higher than 48" from finished floor and in path of egress

3: The hood extinguishing system must be interconnected to the building alarm system

4: Automatic fuel shut down device(s) shall shut down all sources of fuel under the hood.

5: All electrical under the hood shall shut down upon activation

6: Exhaust fan is to stay on and make up air must shut down upon system activation

7: A K Class rated fire extinguisher accessible within 30 foot unobstructed path from cooking equipment is required

8: System to be test fired and witnessed by local fire authorities upon completion.

Appliance Coverage

Table 3 illustrates the maximum permitted cooking surface dimensions of each appliance that can be protected within a single overlapping zone. It is important to note that the cooking surface (area requiring protection) is different than the total appliance size.

Table 3 - Standard Overlapping Protection 5 nozzles per tank (20 flow points), 38" nozzle spacing

Hazard	Fuel Source	Maximum Depth of Cooking Surfaces	Maximum Length of Cooking Surfaces	Maximum Height of Fuel
Multi Vat Fryer (3) (with or w/o Drip-board)	Gas or Electric	30" deep	Unlimited	N/A
Split Vat Fryer, (3) (with or w/o Drip-board)	Gas or Electric	30" deep	Unlimited	N/A
Tilt Skillet	Gas or Electric	30" deep	Unlimited	N/A
Griddle	Gas or Electric	30" deep	Unlimited	N/A
Gas/Electric Radiant Charbroiler	Gas or Electric	30" deep	Unlimited	N/A
Upright Charbroiler/ Salamander, Chain*	Gas or Electric	30" deep	Unlimited	N/A
Appliance w/o Shelf/Obstruction*	Gas or Electric	30" deep	Unlimited	N/A
Wok	Gas or Electric	11-24" diameter	11-24" diameter	6-3/4" deep

DSA File No.: *20-30*
DSA Application No.: *02-120517*

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THOMAS JEFFERSON M. S. KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
Madera, CA
Project

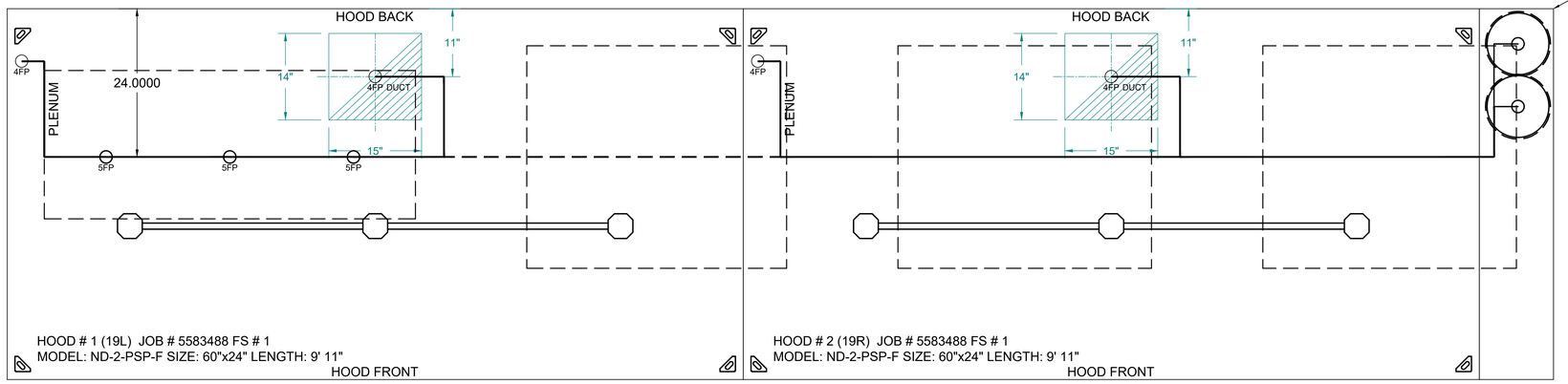
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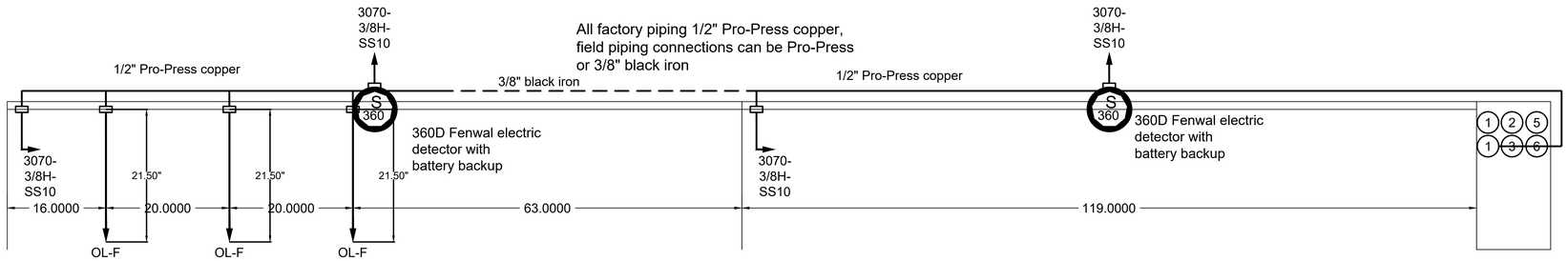
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- SYSTEM REQUIRES A MINIMUM OF 7 FT OF EQUIVALENT PIPE LENGTH BETWEEN TANK AND NEAREST APPLIANCE NOZZLE FOR MOST APPLIANCES. EACH 90 DEGREE ELBOW ADDS 1.3 FT OF EQUIVALENT LENGTH. SEE MANUAL FOR DETAILS



Core system electronic pull station monitored on battery backup

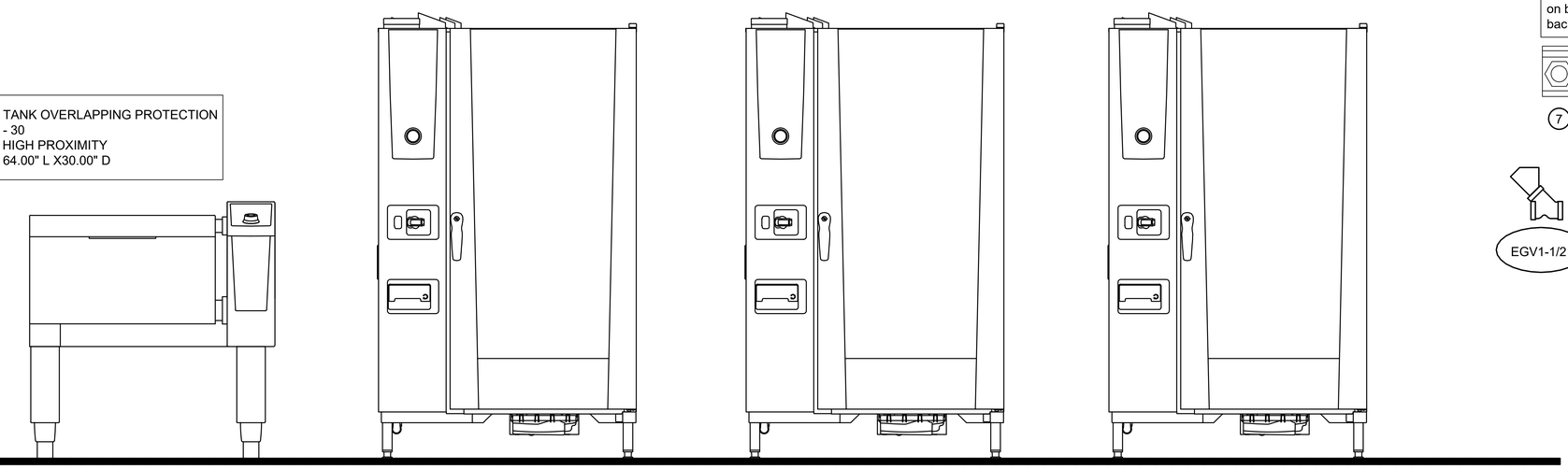
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48" AFF in the path of egress

EGV1-1/2

Electric gas valve controlled by fan controls. Will close in fire condition or if pull station or heat detector are disabled

TANK OVERLAPPING PROTECTION
- 30
HIGH PROXIMITY
64.00" L X30.00" D



TANK OVERLAPPING PROTECTION
- 30
HIGH PROXIMITY
60.00" L X24.00" D

OVEN
HIGH PROXIMITY
42.00" L X36.00" D

OVEN
HIGH PROXIMITY
41.00" L X36.00" D

OVEN
HIGH PROXIMITY
41.00" L X36.00" D

The TANK Fire Suppression system utilizes both overlapping and dedicated nozzle appliance coverage, depending on the type of cooking appliance(s) requiring protection. Dedicated and overlapping nozzles use p/n 3070-3/8H-SS10.

Overlapping appliance coverage allows a given area under the hood, defined as the hazard zone, to be protected by overlapping nozzles. Nozzles are evenly spaced at the same height and alignment (front-to-back) relative to the hazard zone.

DSA File No.:
20-30

DSA Application No.:
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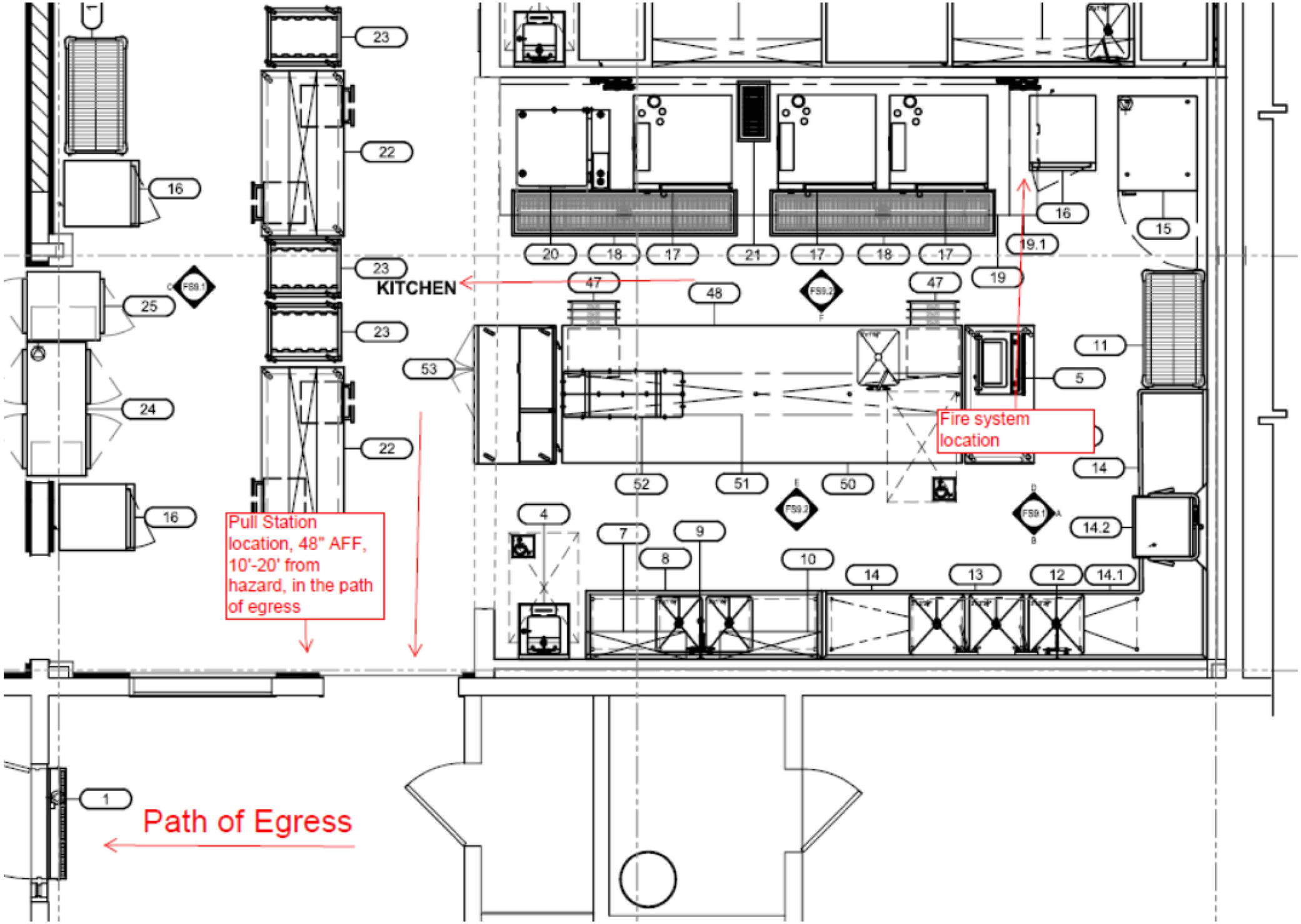
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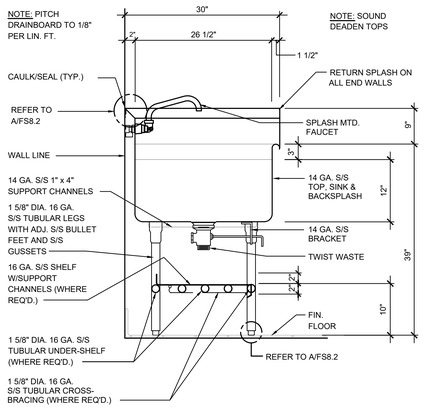
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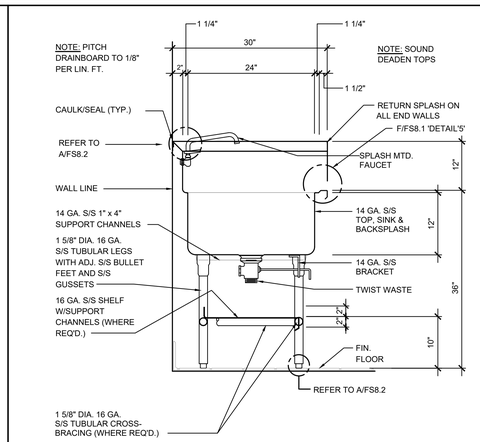
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Revision

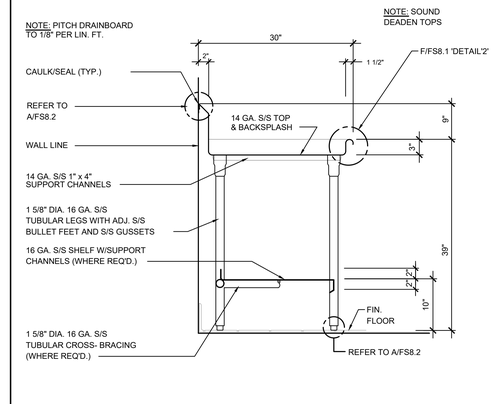
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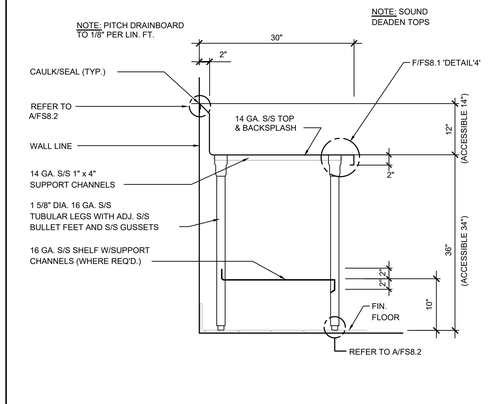
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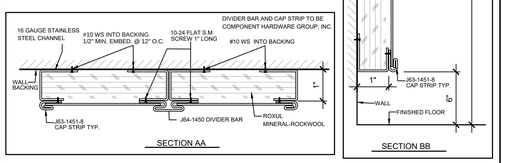
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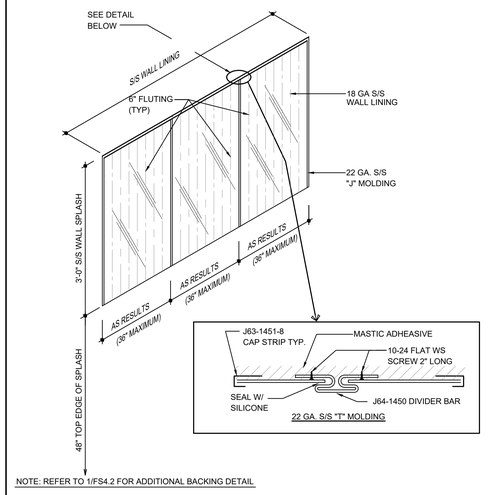
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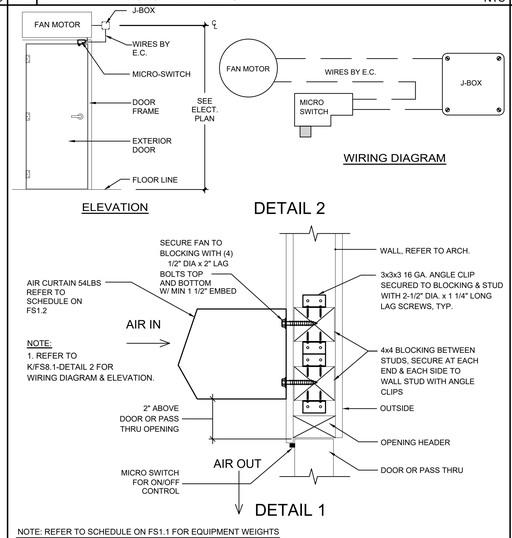
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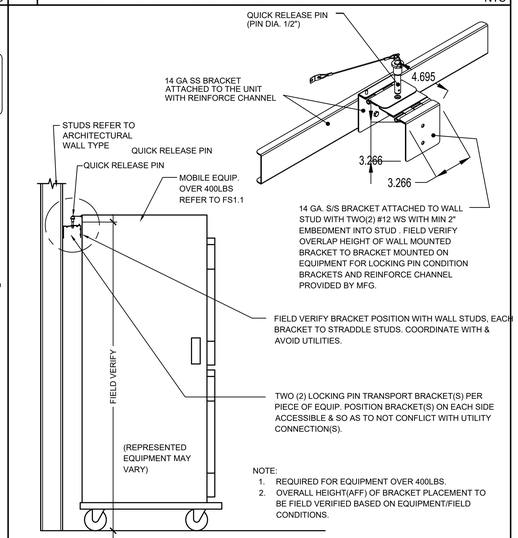
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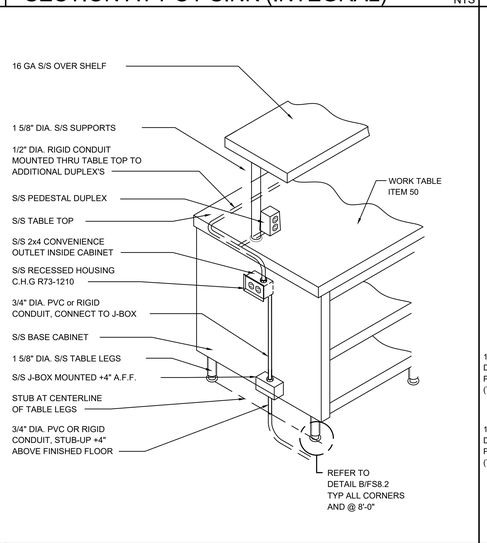
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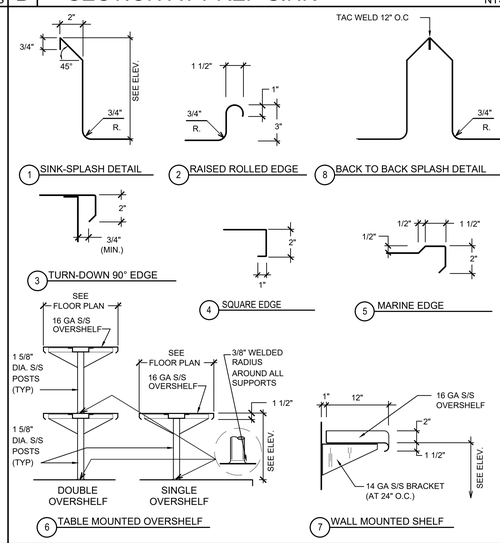
K AIR CURTAIN MTG & MICRO SWITCH DTL NTS



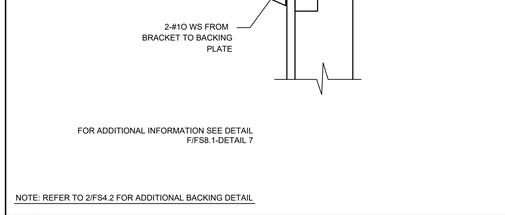
L MOBILE EQUIP. ANCHORAGE BRACKET NTS



E CHEFS COUNTER & ELEC. DETAIL NTS

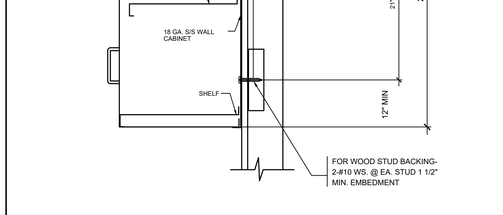


F EDGE/SPLASH/SHELF DETAILS NTS



NOTE: REFER TO 2/FS4.2 FOR ADDITIONAL BACKING DETAIL

G WALL MOUNTED SHELF NTS



H WALL MOUNTED CABINET NTS

DSA File No.: *20-30*

DSA Application No.: *02-120517*

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Drawing

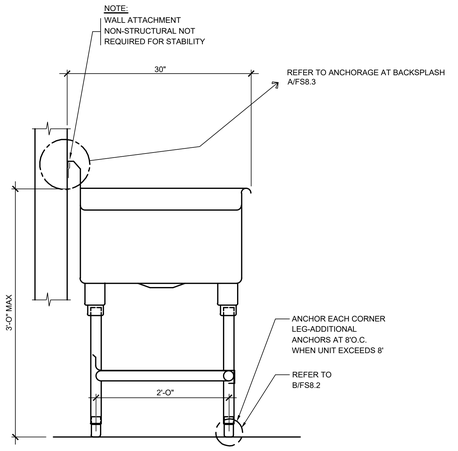
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Architect

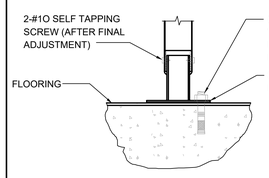
No.	Revision/Submission	Date

Revision

	Designed By: -	Copyright 2023 Darden Architects
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Project Number: 2123	Checked By: -	*FS8.1*
Date: 03/31/2023	Reviewed By: -	



A FLOOR MOUNTED SINK @ WALL NTS



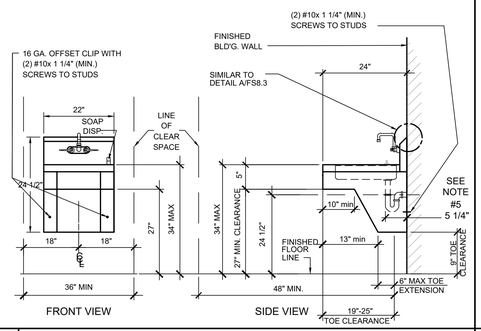
(FLANGED FOOT) SHEAR & UPLIFT

NOTE: INSTALL ANCHOR PER ICC-ES ESR-4266. TORQUE TEST =25 FT.LB

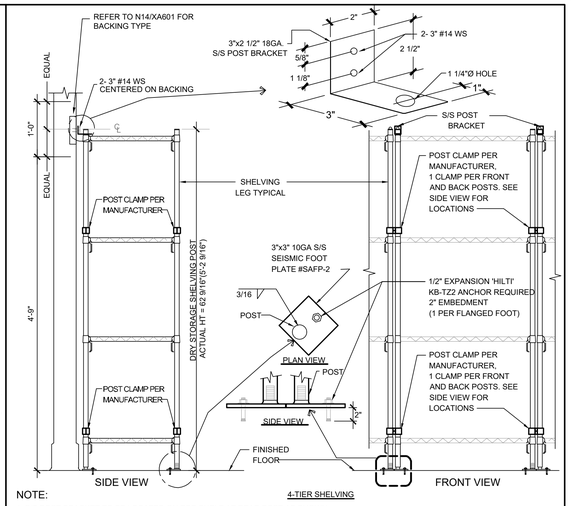
B FOOT ANCHORAGE DETAIL NTS

ACCESSIBLE HAND SINK REQUIREMENT NOTES

1. WATER SUPPLY (11B-606.5)= AND DRAIN PIPES UNDER ACCESSIBLE HAND SINKS SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE OBJECTS OR SURFACES UNDER HAND SINKS.
2. FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBF. LEVER-OPERATED, PUSH-TYPE AND MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS.
3. OPERABLE PARTS OF DISPENSERS AND RECEPTACLES SHALL COMPLY WITH REACH RANGES IN 11B-308
4. ALL DIMENSIONS SHOWN ARE MINIMUM CLEARANCES, UNLESS NOTED.
5. AREA BELOW HAND SINKS SHALL BE ACCESSIBLE AND CLEAR.

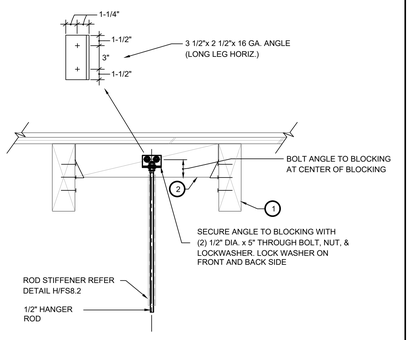


C ACCESSIBLE HAND SINK DETAILS NTS



NOTE:
1. S/S POST BRACKET TO BE LOCATED ON TOP SHELF AT REAR POST AS SHOWN.
2. FOR SIZE AND LOCATION OF DRY STORAGE SHELVING, SEE 1/FS1.1

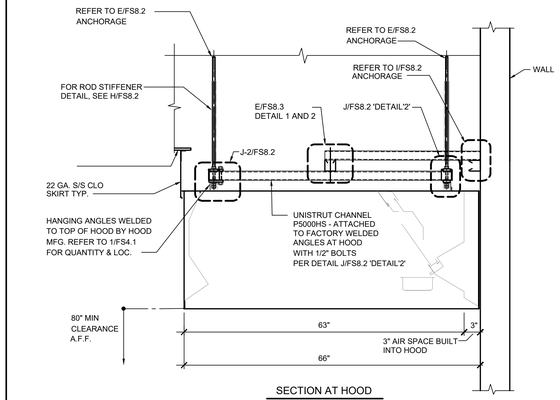
D DRY STORAGE SHELVING ATTACHMENT NTS



HOOD HANGER SUPPORT
REFER TO K/FS8.2 FOR HOOD DETAIL

1. EXISTING 2x JOISTS
2. 4x8 BLOCKING W/ SIMPSON U46 HANGER EACH END TYP

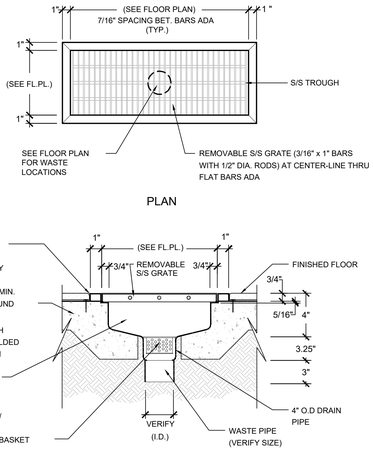
E TYP. UPPER ATTACHMENT NTS



SECTION AT HOOD
HANGER AND BRACING
SIDE/END VIEW

REFER TO FS5.1 FOR EXHAUST HOOD PLAN
REFER TO 1/FS4.1 FOR UNISTRUT PLAN AND CONFIGURATION

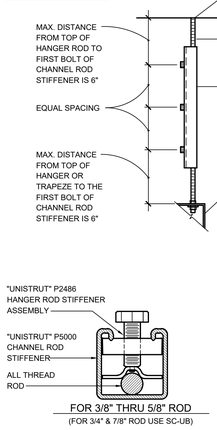
F EXHAUST HOOD ATTACHMENT SECTION NTS



SECTION

G FLOOR TROUGH WITH GRATE NTS

NOTE:
TYPICAL FOR ALL
VERTICAL RODS



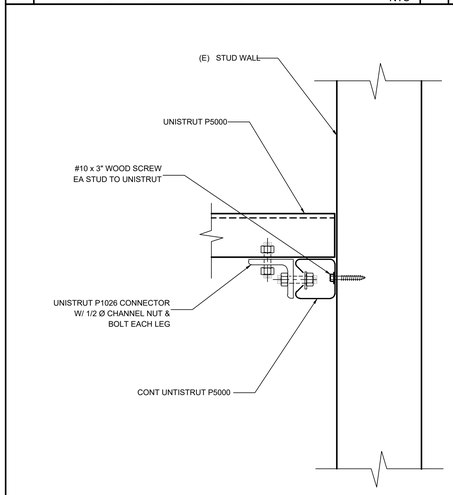
ROD STIFFENER CHART

ATR Size	Max. Rod Length Without Rod Stiffener In.	(mm)
3/8"-16	19"	(482.6)
1/2"-13	25"	(635.0)
5/8"-11	31"	(787.4)
3/4"-10	37"	(939.8)
7/8"-9	43"	(1092.2)

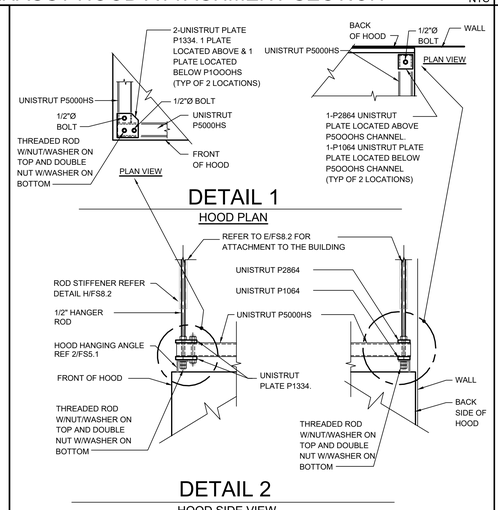
Note: Minimum of (2)-P2486

FOR 3/8" THRU 5/8" ROD
(FOR 3/4" & 7/8" ROD USE SC-UB)

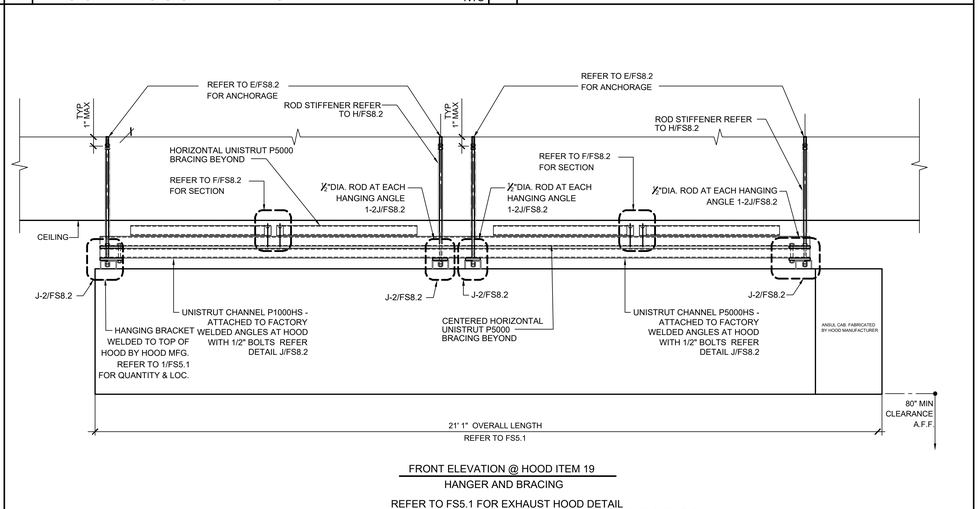
H ROD STIFFENER DETAIL



I DIAGONAL HOOD BRACING NTS



J HOOD HANGING SUPPORT NTS



FRONT ELEVATION @ HOOD ITEM 19
HANGER AND BRACING

REFER TO FS5.1 FOR EXHAUST HOOD DETAIL
REFER TO 1/FS4.1 FOR UNISTRUT PLAN AND CONFIGURATION

K EXHAUST HOOD ATTACHMENT DETAIL NTS

DSA File No.:
20-30

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Architect

No.	Revision/Submission	Date

Revision

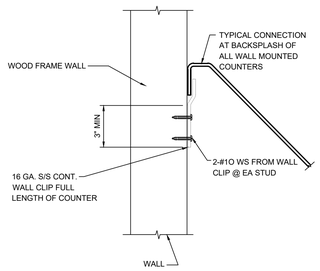
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Reviewed By: -

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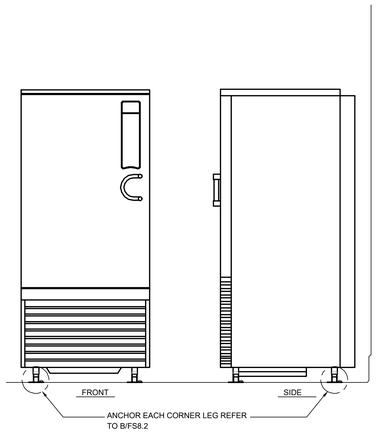
Scale: As indicated
Project Number: 2123
Date: 03/31/2023

FS8.2

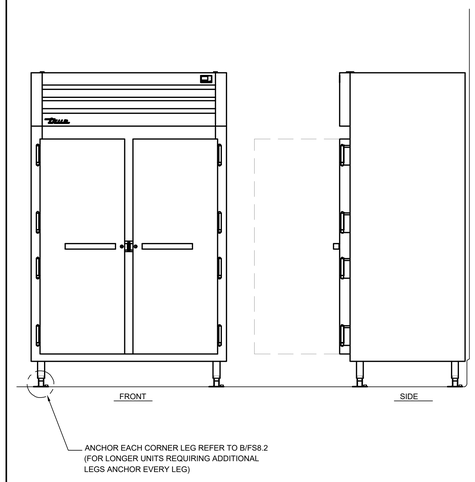
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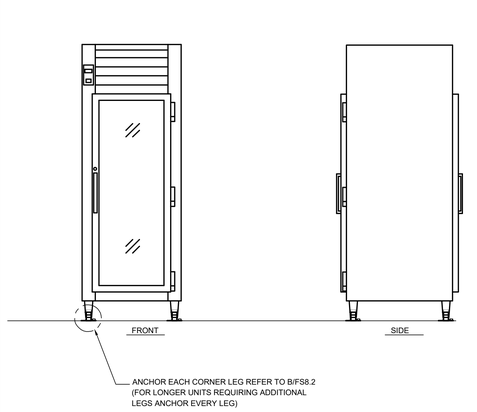
A ANCHORAGE AT BACKSPLASH NTS



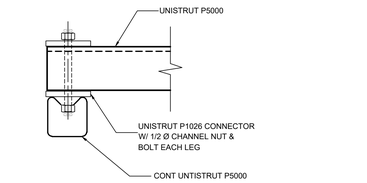
B BLAST CHILLER NTS



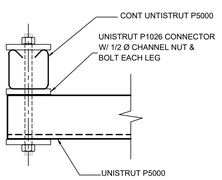
C REACH-IN REFRIG/FREEZER NTS



D REACH THROUGH REFRIGERATOR NTS



DETAIL 1



DETAIL 2

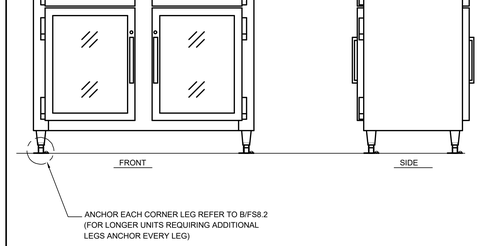
E UNISTRUT CONNECTION DETAIL

SPARE

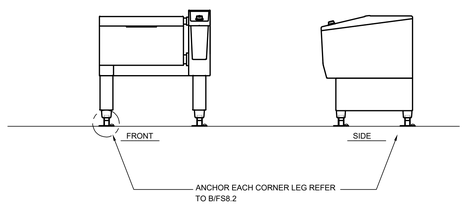
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SPARE

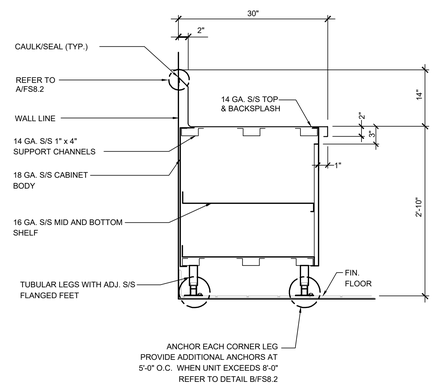
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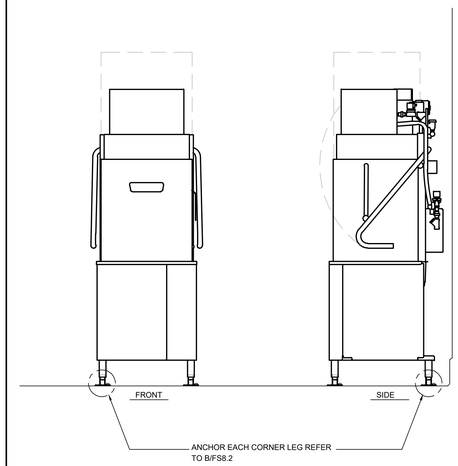
H PASS THROUGH HEATED CABINET



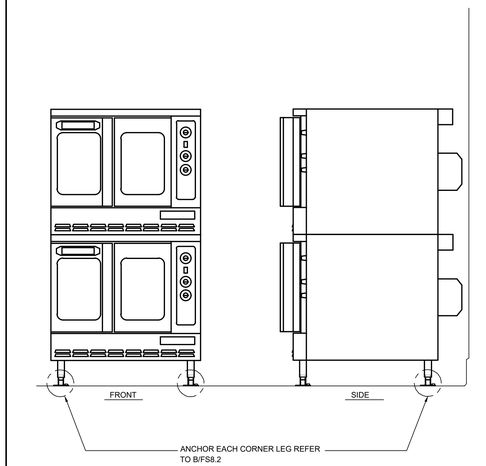
I TILT SKILLET



J BEVERAGE COUNTER



K DISHWASHER



L DOUBLE STACK COMBI OVEN

DSA File No.:
20-30

DSA Application No.:
02-120517

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Architect

No.	Revision/Submission	Date

Revision

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Drawn By: -
Checked By: -
Reviewed By: -

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Scale: As indicated
Project Number: 2123
Date: 03/31/2023

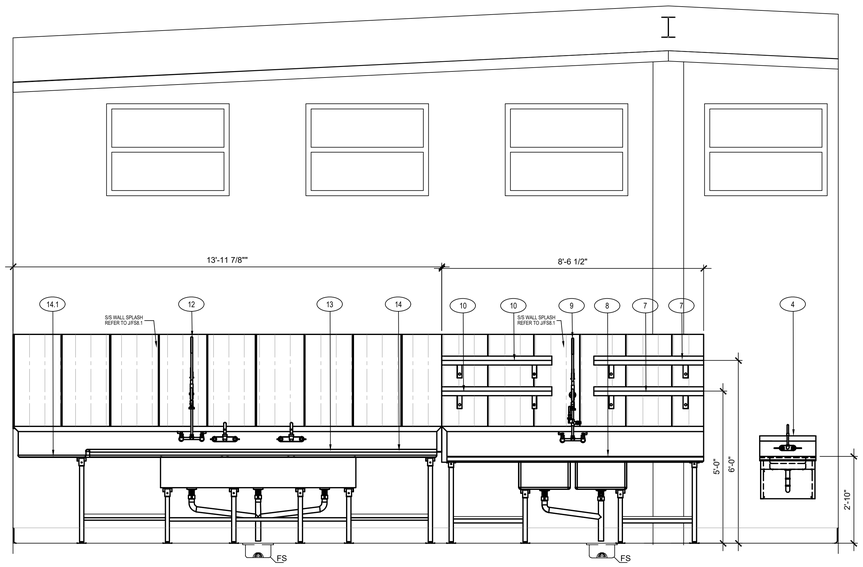
FS8.3



ELEVATION

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

A FS9.1



ELEVATION

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

B FS9.1

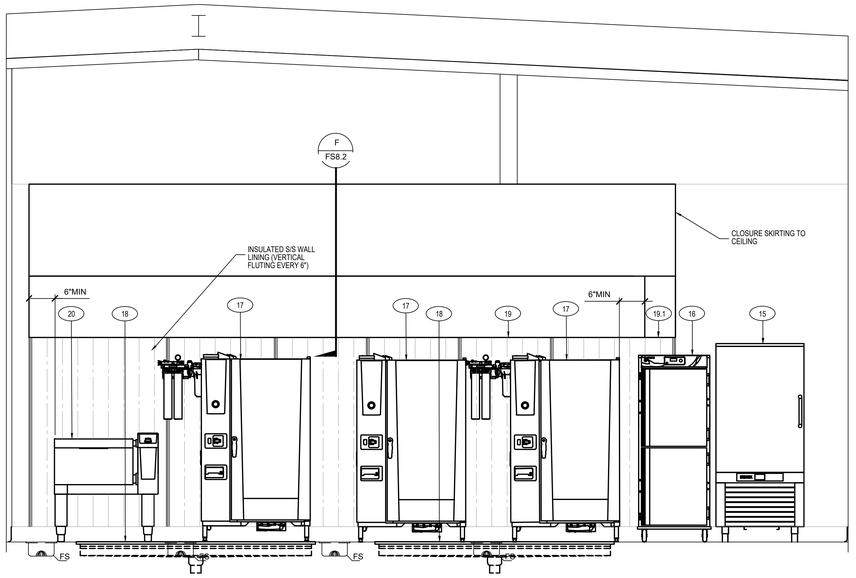
EQUIPMENT SCHEDULE	
ITEM NO	EQUIPMENT CATEGORY
4	SINK, HAND, WALL MOUNT
5	VACUUM PACKAGING MACHINE
6	SPARE
7	DOUBLE WALL SHELF
8	PREP SINK
9	PRE-RINSE & FILL FAUCET
10	DOUBLE WALL SHELF
11	MOBILE POT AND PAN STORAGE
12	PRE-RINSE SPRAY UNIT
13	THREE COMPARTMENT POT SINK
14	CLEAN DISHTABLE
14.1	SOILED DISHTABLE
14.2	DISHWASHER, VENTLESS
15	BLAST CHILLER
16	MOBILE WARMING CABINET
17	COMBI OVEN-ROLL-IN
18	FLOOR TROUGH
19	EXHAUST HOOD
19.1	FIRE SYSTEM
20	TILT SKILLET, ELECTRIC, POWER TILT
24	CABINET, HEATED, PASS-THRU
25	REFRIGERATOR, PASS-THRU
30	REFRIGERATED SELF-SERVICE CASE



ELEVATION

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

C FS9.1



ELEVATION

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

D FS9.1

ELEVATION LEGEND	
SYMBOL	DESCRIPTION
A FS1.1	SECTION VIEW REFER TO CALLED OUT VIEW
FS	FLOOR SINK REFER TO FS2.1 FOR LOCATION
#	ITEM NUMBER REFER TO FS9.1 FOR SCHEDULE

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20-30

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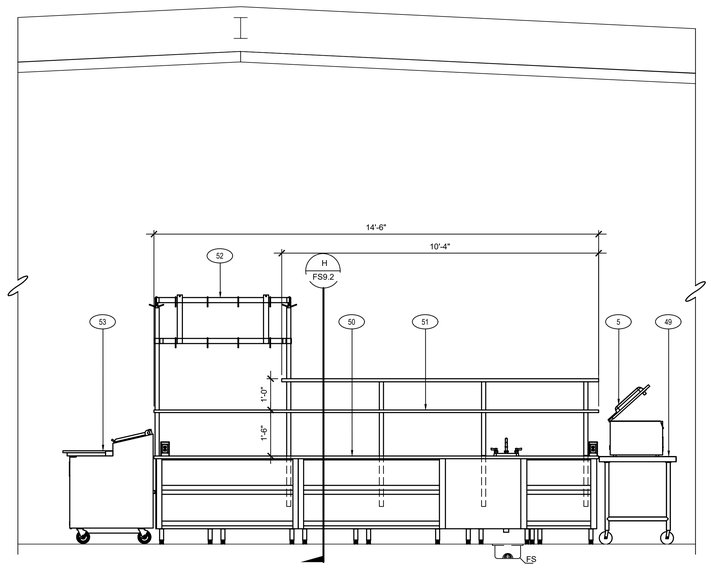
Architect

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Project Number: 2123	Checked By: -	*FS9.1*
Date: 03/31/2023	Reviewed By: -	

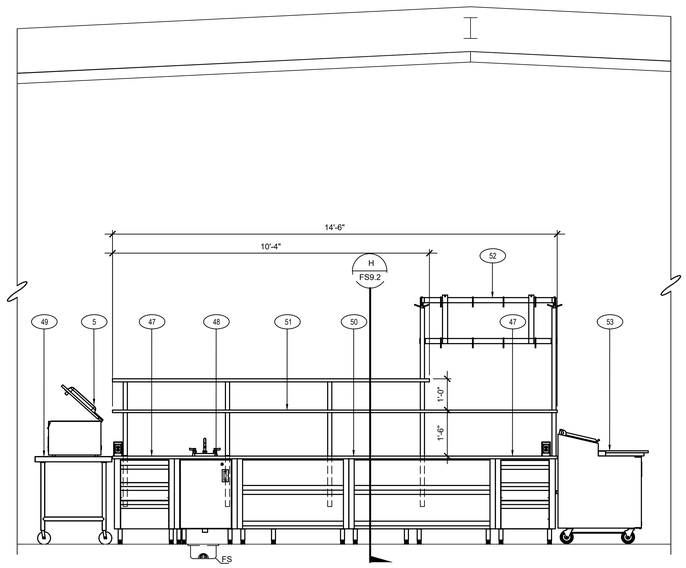
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ELEVATION

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

E FS9.2

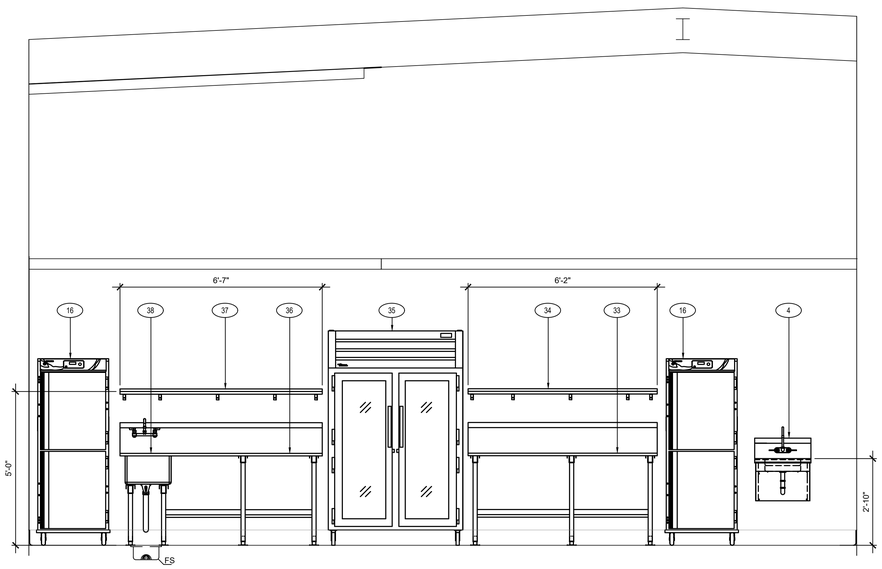


ELEVATION

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

F FS9.2

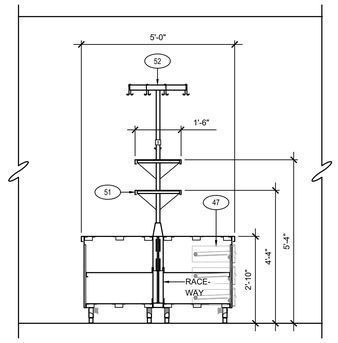
EQUIPMENT SCHEDULE	
ITEM NO	EQUIPMENT CATEGORY
33	WORK COUNTER
34	WALL MOUNTED SHELF
35	REFRIGERATOR, REACH-IN
36	WORK COUNTER
37	WALL MOUNTED SHELF
38	PREP SINK
47	3 TIER UTENSIL DRAWER
48	CHEFS SINK
49	MOBILE WORK TABLE
50	CHEFS COUNTER
51	DOUBLE OVERSHELF
52	TABLE MOUNTED POT RACK
53	PIZZA/ SANDWICH PREP TABLE



ELEVATION

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

G FS9.2



SECTION

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

H FS9.2

ELEVATION LEGEND	
SYMBOL	DESCRIPTION
A / FS1.1	SECTION VIEW REFER TO CALLED OUT VIEW
FS	FLOOR SINK REFER TO FS2.1 FOR LOCATION
#	ITEM NUMBER REFER TO FS9.1 FOR SCHEDULE

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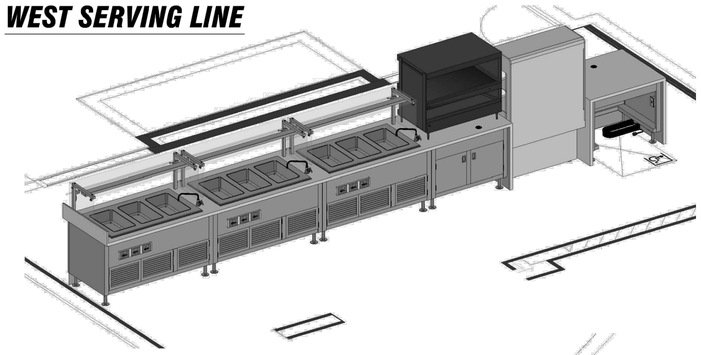
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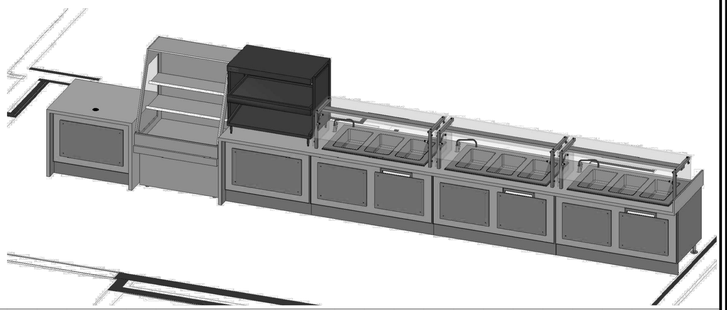
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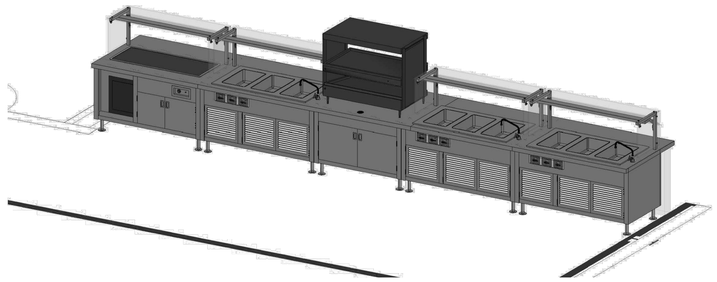
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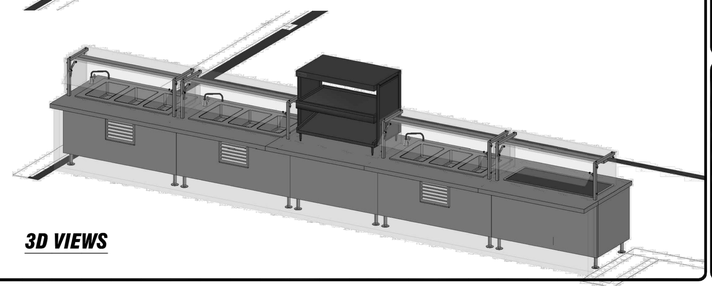
WEST SERVING LINE





NORTH SERVING LINE





3D VIEWS

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STANDARD SERVING SYSTEM PRACTICES

SOLID SURFACE TOPS AND TRAY SLIDES

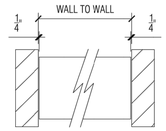
- ALL SOLID SURFACE TOPS AND TRAY SLIDES, WITH FIELD SEAMS, ***WILL SHIP LOOSE***, WHEN SPANNING MORE THAN ONE UNIT.
- SOLID SURFACE TOPS AND TRAY SLIDES SPECIFIC TO SINGLE UNIT WILL SHIP INSTALLED.
- SOLID SURFACE TOPS AND TRAY SLIDES REQUIRE A ***CERTIFIED*** INSTALLER, SPECIFIC TO THE BRAND, TO SEAM THE UNITS IN THE FIELD DURING PRODUCT INSTALLATION.

STAINLESS STEEL TOPS AND TRAY SLIDES

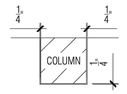
- THE MAXIMUM CONTINUOUS STAINLESS STEEL TOP LENGTH IS 144" [12'-0"], BEFORE REQUIRING A BOLTED OR WELDED FIELD JOINT.
- THE MAXIMUM CONTINUOUS STAINLESS STEEL TRAY SLIDE LENGTH IS 144" [12'-0"], BEFORE REQUIRING A BOLTED OR WELDED FIELD JOINT.
- BOLTED OR WELDED FIELD JOINTS ARE REQUIRED, AT ALL MITERED TRAY SLIDE CORNERS.

ALLOWANCE FOR FIELD CONDITIONS

- FACTORY TO ALLOW ¼" AT ALL WALLS, COLUMNS, AND PASS THROUGH WINDOWS FOR FIT. ***(SEE WALL TO WALL AND COLUMN EXAMPLES)***



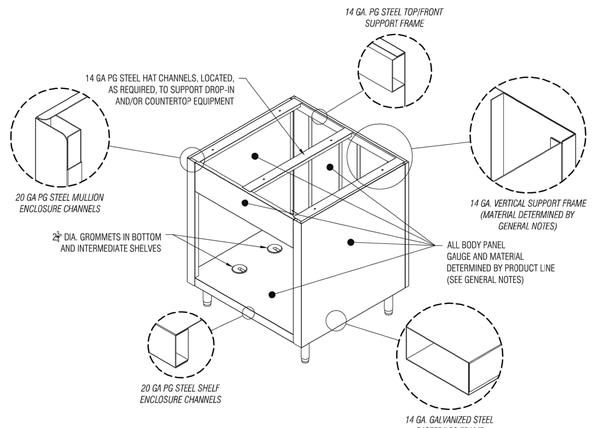
WALL TO WALL EXAMPLE



COLUMN EXAMPLE

ELECTRICAL

- ALL 15 AMP (NEMA #5-15R) AND 20 AMP (NEMA #5-20R) RECEPTACLES SHALL BE GFCI (GROUND FAULT CIRCUIT INTERRUPTER) TYPE RECEPTACLES PER DUKE MANUFACTURING STANDARD. ***UNLESS SPECIFICALLY NOTED OTHERWISE*** ON THE DRAWING. ***(SEE SYMBOL LEGEND)***



STANDARD CHANNEL BODY CONSTRUCTION

SYMBOL LEGEND

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
SIMPLEX RECEPTACLE		DUPLEX GFCI RECEPTACLE (NEMA 5-15R & 5-20R ONLY)		ELEC. CORD AND PLUG	
KICKPLATE LOCATION	K	LAMINATE LOCATION	L	DECOR PANEL LOCATION	DP
EQUIPMENT TAG	#	FIELD JOINT LOCATION	FJ	2½" GROMMET LOCATION	
VIEW TAG	VIEW NUMBER / PAGE NUMBER — 1 PLAN / X SCALE — VIEW NAME / VIEW SCALE			COMPRESSOR WITH REMOVABLE GRILLE	
VIEW ARROWS				VIEW NUMBER / PAGE NUMBER	

DESIGNED FOR: THOMAS JEFFERSON SCHOOL

DESIGNED BY: INFRORM MARKETING GROUP

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I	10/7/2022	PD
J	1/18/2023	GMC

DRAWN BY: MAC
ESTIMATOR: R.TROUTT
PURCHASE ORDER #: N/A
SALES ORDER: N/A
DATE: 11/16/2021
DRAWING NO. : SD-140360
SHEET: OF: 6 1

DSA File No.: *20-30*

DSA Application No.: *02-120517*

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Architect

No.	Revision/Submission	Date

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Drawn By: -
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Reviewed By: -

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THE FOLLOWING MUST BE VERIFIED PRIOR TO CONSTRUCTION

- ANY DECOR COLOR CHOICES INCLUDING LAMINATE, PAINT COLOR, OR CUSTOM DECOR FEATURES, IF APPLICABLE
- ALL ELECTRICAL VOLTAGE AND PHASE OF DUKE HOT FOOD UNITS AND BUYOUT EQUIPMENT IF APPLICABLE
- ALL CRITICAL FIELD DIMENSION IF ANY AS INDICATED IN PLAN VIEW.

THURMADUKE SERVING SYSTEMS

TOPS FOR WEST SERVING LINE

EXTENDED SOLID 2CM SURFACE TOPS, 2 CM QUARTZ ON ¾" WOOD BACKER.TO INCLUDE LED DOWNLIGHTING

ALL DROP-INS TO INCLUDE 16GA. STAINLESS STEEL TRIM RING

*QUARTZ BRAND:..... VERIFY

*QUARTZ COLOR NAME:..... VERIFY

WATERFALL END - ITEM # 31.1 & 32

SOLID SURFACE END PANEL, 2 CM QUARTZ ON 3/4" WOOD BACKER, ALL VISIBLE SURFACES MATCHING QUARTZ, "WATERFALL EDGE" FIT & FINISH.
ITEM 32 AT OPERATOR'S RIGHT SIDE. ITEM 31.1 AT OPERATOR'S LEFT & RIGHT SIDE.

*QUARTZ BRAND:..... VERIFY

*QUARTZ COLOR NAME:..... VERIFY

TOPS FOR NORTH SERVING LINE

14 GA. STAINLESS STEEL TOP.

BODIES & INTERIORS

14 GA. FRAME/SUPPORTS W/20 GA. STAINLESS STEEL ENCLOSURE CHANNELS, BODY PANELS AND INTERIOR SHELVES.

DECOR PANELS

VERTICAL FRONT PANELS SHALL BE 1/2" MDF COVERED WITH PLASTIC LAMINATE. TO INCLUDE STAINLESS STEEL TRIM.

*LAMINATE TO BE:.....VERIFY *****LAMINATE GRAIN (IF ANY) RUNS HORIZONTAL*****

*LAMINATE ID NUMBER:.....VERIFY

*LAMINATE COLOR NAME:.....VERIFY

*LAMINATE TAG:..... (DP)

STAND-OFF DECOR PANELS

VERTICAL DECOR BACKER COVERED WITH PLASTIC LAMINATE MOUNTED ON 1" STAINLESS STEEL BARREL STAND-OFFS.

*****LAMINATE GRAIN (IF ANY) RUNS HORIZONTAL*****

*LAMINATE BRAND:.....VERIFY

*LAMINATE COLOR NAME:.....VRIFY *LAMINATE TAG:..... (SP)

BREATHGUARDS - BGA

1-1/4" SQUARE STAINLESS STEEL TUBING POSTS, MOUNTED THROUGH TOP WITH ⅜", TEMPERED, CLEAR GLASS SHELVES, AND PROTECTORS.
WITH #4 BRUSHED GRAIN FINISH WITH HIGH POLISH, HIGHLIGHTED EDGES

LEGS

6" HIGH, 1 5/8"Ø STAINLESS STEEL TUBULAR LEGS WITH FLANGED ADJUSTABLE FEET.

KICKPLATES

HEAVY GAUGE STAINLESS STEEL KICK PLATES LOCATED/INDICATED BY DRAWING;

DUKE EQUIPMENT

Item Tag	Quantity	Model Number	Description	Voltage	Phase	Watts	Amps	NEMA #'S Intl. Conn. / Final Conn.	Cord length	
31.1	1	TST-46SS	SOLID TOP UNIT	120	1	1800	15	N/A / 5-15P	N/A / 6'	Gas Type / N/A
32	1	TST-46SS	SOLID TOP UNIT *LOAD CENTER - A*	120/208	1	7712	37.08	N/A	N/A	Gas Type / N/A
32.1A	1	TST-60SS	SOLID TOP UNIT	-	-	-	-	N/A	N/A	Gas Type / N/A
32.1A	1	TST-60SS	SOLID TOP UNIT	-	-	-	-	N/A	N/A	Gas Type / N/A
32.1B	1	TST-60SS	SOLID TOP UNIT	-	-	-	-	-	N/A	Gas Type / N/A
40A	1	BGA-1-60	SINGLE-TIER BREATHGUARD WITH LED LIGHT and HEATER	120	1	705	5.88	NEMA# / 5-15P	Cord / -	Gas Type / -
40	6	BGA-1-60	SINGLE-TIER BREATHGUARD WITH LED LIGHT	120	1	30	.25	NEMA# / 5-15P	Cord / -	Gas Type / -
41.1	1	TST-60SS	SOLID TOP UNIT *LOAD CENTER - B*	120/208	1	7305	35.12	N/A	N/A	Gas Type / N/A
41.2	1	TST-60SS	SOLID TOP UNIT	-	-	-	-	N/A	N/A	Gas Type / N/A
41.3	1	TST-46SS	SOLID TOP UNIT	-	-	-	-	N/A	N/A	Gas Type / N/A
41.4	1	TST-60SS	SOLID TOP UNIT	-	-	-	-	N/A	N/A	Gas Type / N/A
41.5	1	TST-60SS	SOLID TOP UNIT	-	-	-	-	N/A	N/A	Gas Type / N/A

DUKE EQUIPMENT

Item Tag	Quantity	Model Number	Description	Voltage	Phase	Watts	Amps	NEMA #'S Intl. Conn. / Final Conn.	Cord Length	

BUY-OUT EQUIPMENT

Item Tag	Quantity	Model Number	Description	Voltage	Phase	Watts	Amps			
27	2	GRSDS-36D	HATCO MERCHANDISER WARMER	120	1	1340	11.2	NEMA# / 5-15P	Provided By / OTHERS	Installed By / OTHERS
30	1	KGL-RM-40-S	HYDRA KOOL REFRIGERATED CASE	115	1	1932	16.8	NEMA# / 5-20P	Provided By / OTHERS	Installed By / OTHERS
39	6	DI-QSCHP-3	LTI HOT/COLD/FREEZE FOOD WELLS	120/208	1	1440	12.1	NEMA# / 14-20P	Provided By / OTHERS	Installed By / DUKE
44	1	HBGB-4818	HATCO HEATED BASE GLASS SHELF	120	1	850	7.1	NEMA# / 5-15P	Provided By / OTHERS	Installed By / DUKE

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DESIGNED BY: INFRORM MARKETING GROUP

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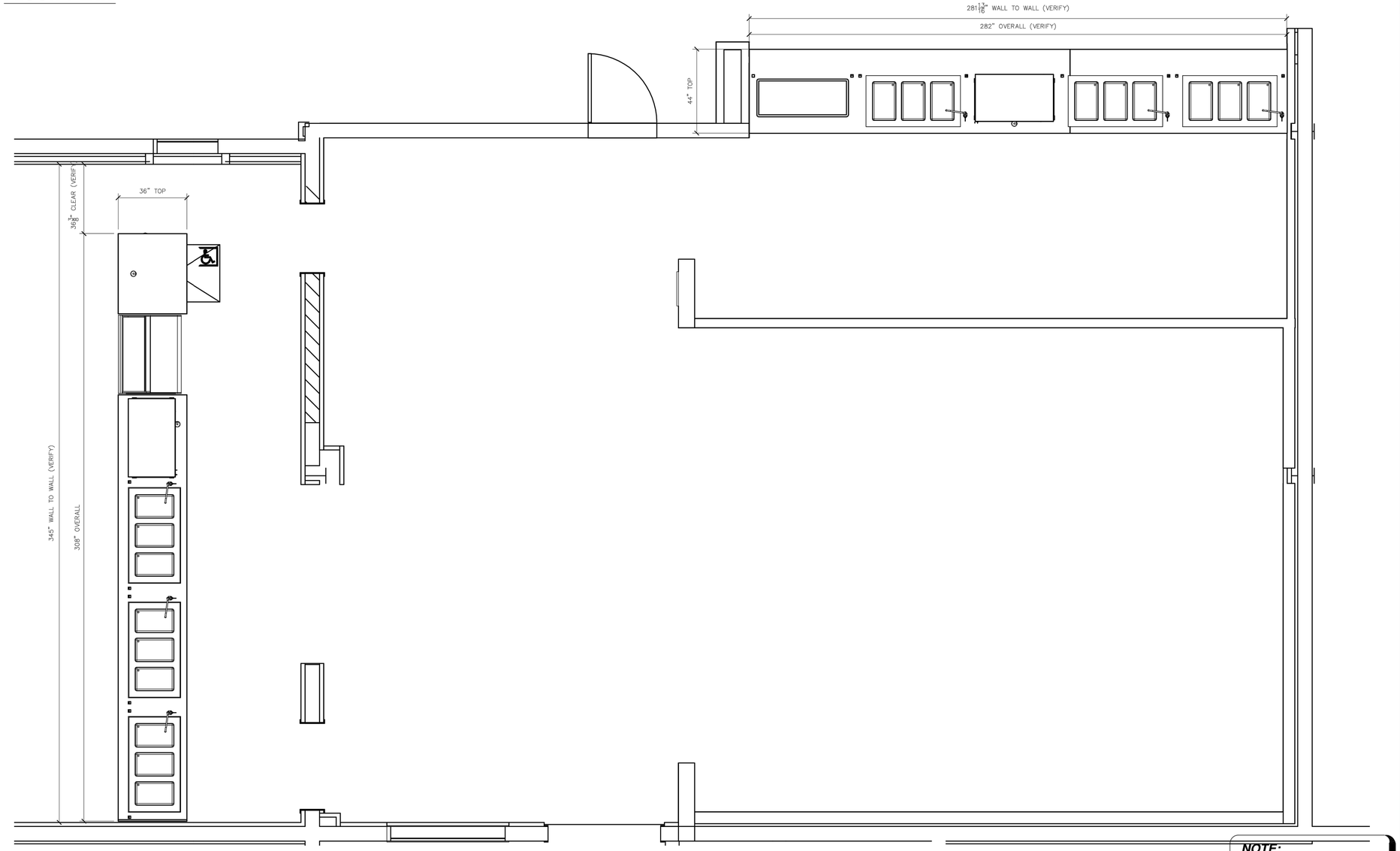
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FLOOR PLAN



1 3 FLOOR PLAN
1/4" = 1'-0"

NOTE:
SNEEZE GUARDS NOT SHOWN IN PLAN VIEW

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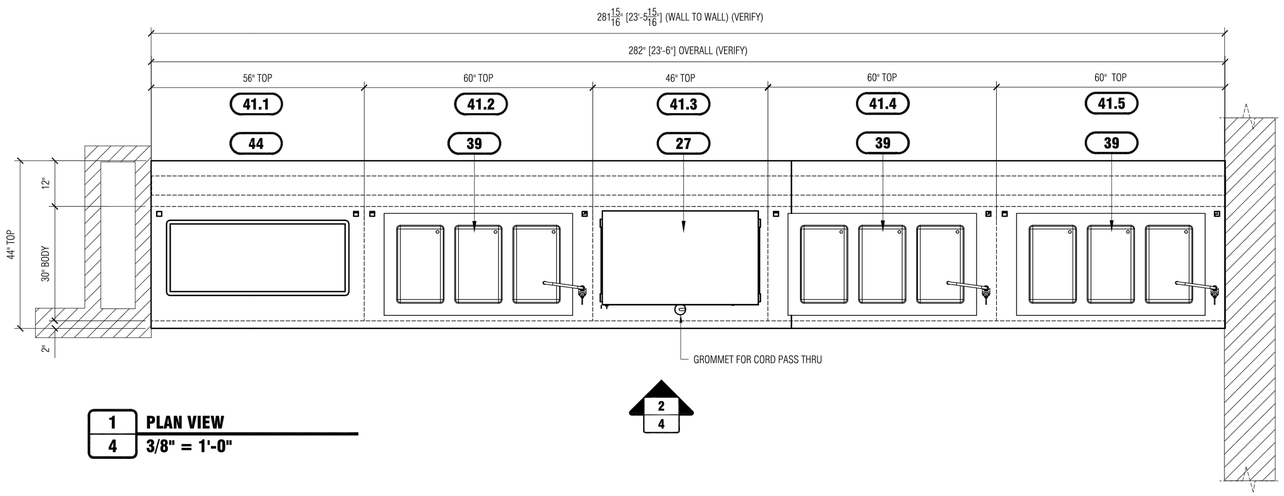
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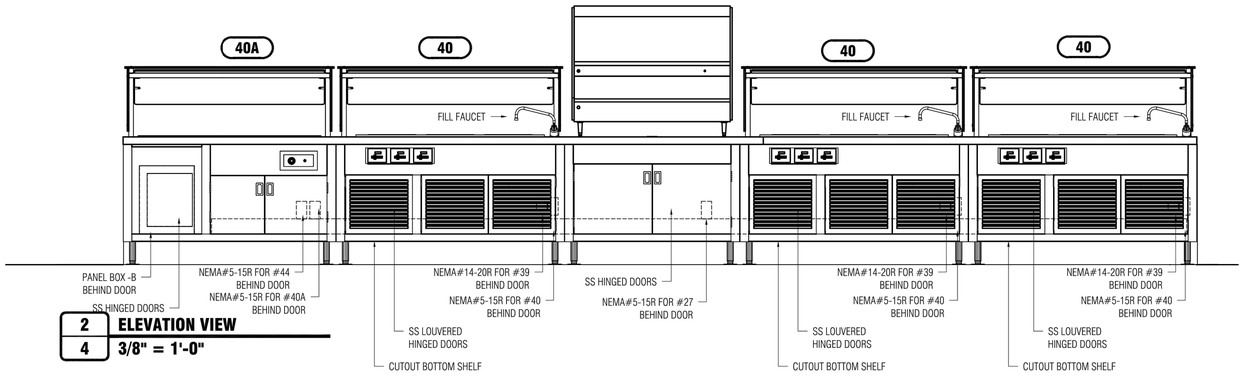
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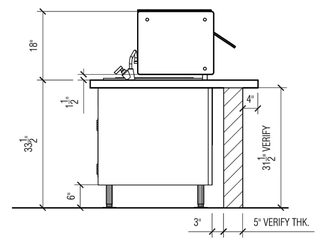


1 / 4 PLAN VIEW
3/8" = 1'-0"

NOTE:
SNEEZE GUARDS NOT SHOWN IN PLAN VIEW



2 / 4 ELEVATION VIEW
3/8" = 1'-0"



3 / 4 END VIEW
3/8" = 1'-0"

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DESIGNED BY: INFORM MARKETING GROUP

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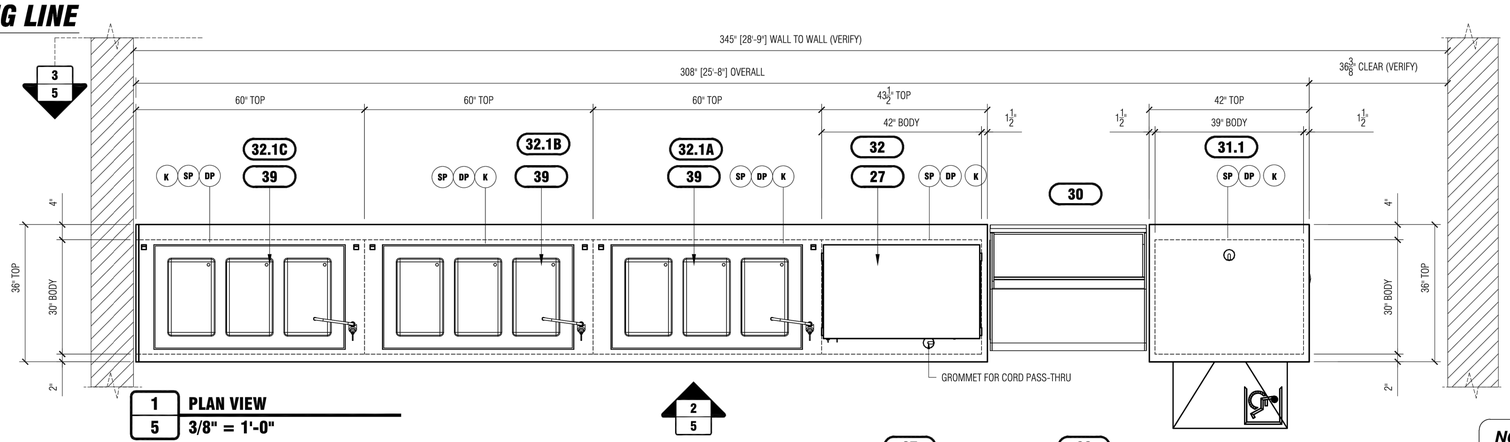
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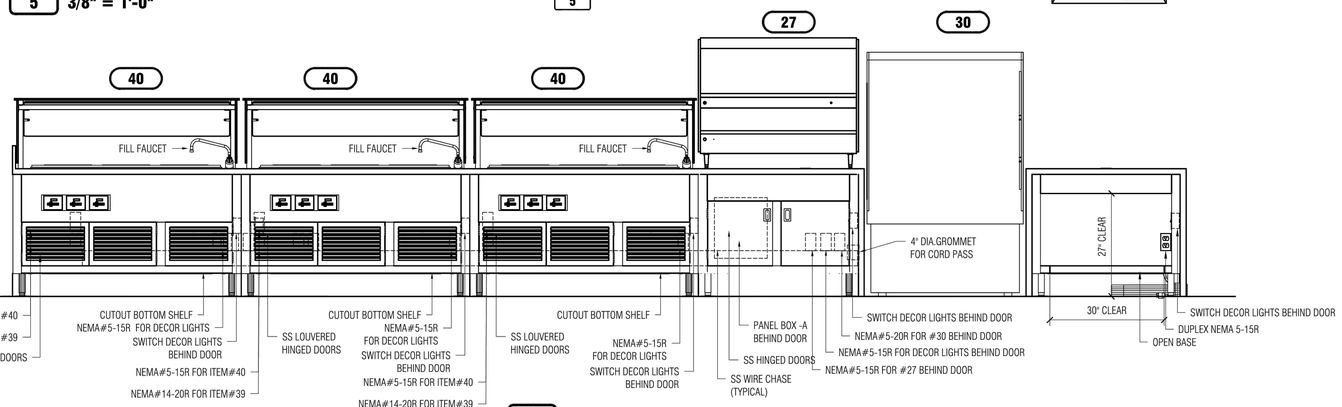
Scale: As indicated
Project Number: 2123
Date: 03/31/2023

FS9.6

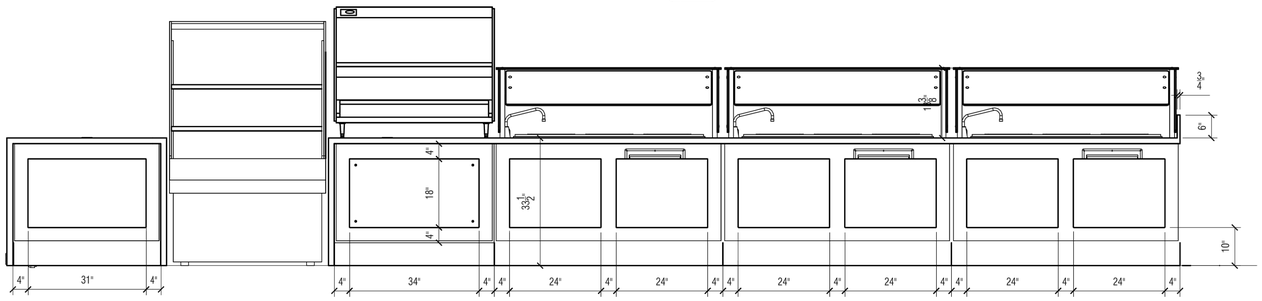
WEST SERVING LINE



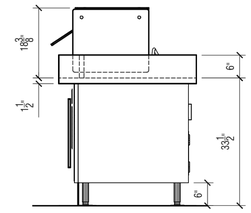
1 / 5 PLAN VIEW
3/8" = 1'-0"



2 / 5 ELEVATION VIEW
3/8" = 1'-0"



3 / 5 CUSTOMER SIDE ELEVATION VIEW
3/8" = 1'-0"



4 / 5 END VIEW
3/8" = 1'-0"

NOTE:
SNEEZE GUARDS NOT SHOWN IN PLAN VIEW

DSA File No.:
20-30

DSA Application No.:
02-120517

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120517 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/25/2023

Agency Approval

AMD FOODSERVICE DESIGN
P.O BOX 163
GARDEN VALLEY, CA
95633
p. 530-333-4606
www.amdfoodservicedesign.com

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Your Solutions Partner
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DUKE MANUFACTURING COMPANY
2305 North Broadway
St. Louis, MO 63102
Ph (314) 231-1130
Fax (314) 231-5074

SUBMITTAL

REV.	DATE	BY
A	2/23/2022	MAC
B	2/28/2022	MAC
C	2/28/2022	MAC
D	3/15/2022	MAC
E	5/13/2022	MAC
F	7/26/2022	CBG
G	7/27/2022	CBG
H	8/18/2022	CBG
I	10/7/2022	PD
J	1/18/2023	GMC

DESIGNED FOR: THOMAS JEFFERSON SCHOOL
DESIGNED BY: INFRORM MARKETING GROUP

DRAWN BY: MAC
ESTIMATOR: R.TROUTT
PURCHASE ORDER #: N/A
SALES ORDER: N/A
DATE: 11/16/2021
DRAWING NO.: SD-140360
SHEET: 5 OF: 6

THOMAS JEFFERSON M. S. KITCHEN REMODEL
MADERA UNIFIED SCHOOL DISTRICT
Madera, CA
Project

BUILDING C
FOODSERVICE EQUIPMENT SERVING LINE DETAILS
Drawing

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ARCHITECTURE
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6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051
LICENSED ARCHITECT ANTONIO J. AVILA No. C26235 Exp. 10-31-23 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: -
Drawn By: -
Checked By: -
Reviewed By: -

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Scale: As indicated
Project Number: 2123
Date: 03/31/2023

FS9.7

ELECTRICAL WORKSHEET

Designed by: KP/EB, Rev. H 12/1/20

New purchase orders requiring an electric panel box MUST have this form completed. A separate worksheet is required for each panel box. Send to Sedalia factory before releasing the sales order and drawing to production.

ORDER ENTRY SECTION — Completed by Project Manager

PANEL/ICB No:	A	DATE:	10/10/2022	DRAWING NO.	SD-140360
JOB NAME		PROJECT MANAGER			
Thomas Jefferson School		Randy Troutt		Clear Schedule	

SERVICE VOLTAGE, PANEL TYPE, AND DOOR SELECTION

PHASE	VOLTAGE	PANEL TYPE	DOOR SELECTION	POLES	
1	120/208	Panel Box	Cabinet Door	12	Create Schedule

CONNECTED EQUIPMENT SCHEDULE

ITEM #	MODEL #	CONNECTION TYPE	PH	VOLTAGE	WATTS	AMPS
39	DI-QSCHP-3	14-20R (Simplex)	1	120/208	1440	6.92
39	DI-QSCHP-3	14-20R (Simplex)	1	120/208	1440	6.92
39	DI-QSCHP-3	14-20R (Simplex)	1	120/208	1440	6.92
40	BGA-1-60	5-15R (Simplex)	1	120	30	0.25
40	BGA-1-60	5-15R (Simplex)	1	120	30	0.25
40	BGA-1-60	5-15R (Simplex)	1	120	30	0.25
27	GRSDS-36D	5-15R (Simplex)	1	120	1340	11.17
30	KGL-RM-40-S	5-20R (Simplex)	1	120	1932	16.10
Décor LED	LED litghts	5-15R (Simplex)	1	120	30	0.25

SINGLE PHASE PANEL BOX SELECTION — **TOTALS**

MODEL #	DUKE #	AMPERAGE	DIMENSIONS	POLES	WATTS	AMPS
Q0124-L125G	212538	125	14.3W x 20.9H x 3.8D	24	7712	37.08

3 PHASE PANEL BOX SELECTION

MODEL #	DUKE #	AMPERAGE	DIMENSIONS	POLES		

ELECTRICAL WORKSHEET

Designed by: KP/EB, Rev. H 12/1/20

New purchase orders requiring an electric panel box MUST have this form completed. A separate worksheet is required for each panel box. Send to Sedalia factory before releasing the sales order and drawing to production.

ORDER ENTRY SECTION — Completed by Project Manager

PANEL/ICB No:	B	DATE:	10/10/2022	DRAWING NO.	SD-140360
JOB NAME		PROJECT MANAGER			
Thomas Jefferson School		Randy Trout		Clear Schedule	

SERVICE VOLTAGE, PANEL TYPE, AND DOOR SELECTION

PHASE	VOLTAGE	PANEL TYPE	DOOR SELECTION	POLES	
1	120/208	Panel Box	Cabinet Door	12	Create Schedule

CONNECTED EQUIPMENT SCHEDULE

ITEM #	MODEL #	CONNECTION TYPE	PH	VOLTAGE	WATTS	AMPS
27	GRSDS-36D	5-15R (Simplex)	1	120	1340	11.17
44	HBGB-4818	5-15R (Simplex)	1	120	850	7.08
39	DI-QSCHP-3	14-20R (Simplex)	1	120/208	1440	6.92
39	DI-QSCHP-3	14-20R (Simplex)	1	120/208	1440	6.92
39	DI-QSCHP-3	14-20R (Simplex)	1	120/208	1440	6.92
40	BGA-1-60	5-15R (Simplex)	1	120	30	0.25
40	BGA-1-60	5-15R (Simplex)	1	120	30	0.25
40	BGA-1-60	5-15R (Simplex)	1	120	30	0.25
40	BGA-1-60	5-15R (Simplex)	1	120	30	0.25
40A	BGA-1-60	5-15R (Simplex)	1	120	705	5.88

SINGLE PHASE PANEL BOX SELECTION — **TOTALS**

MODEL #	DUKE #	AMPERAGE	DIMENSIONS	POLES	WATTS	AMPS
Q0124-L125G	212538	125	14.3W x 20.9H x 3.8D	24	7305	35.12

3 PHASE PANEL BOX SELECTION

MODEL #	DUKE #	AMPERAGE	DIMENSIONS	POLES		

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St. Louis, MO 63102
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SUBMITTAL

APPROVED FOR FABRICATION
APPROVED AS NOTED
REVISE & RESUBMIT

APPROVED AS SUBMITTED FOR PERMITTING
FOR CONSTRUCTION
AS BUILT

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SIGNATURE & DATE

REV.	DATE	BY
A	2/23/2022	MAC
B	2/28/2022	MAC
C	2/28/2022	MAC
D	3/15/2022	MAC
E	5/13/2022	MAC
F	7/26/2022	CBG
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H	8/18/2022	CBG
I	10/7/2022	PD
J	1/18/2023	GMC

DESIGNED FOR: THOMAS JEFFERSON SCHOOL
DESIGNED BY: INFRORM MARKETING GROUP

DRAWN BY: MAC
ESTIMATOR: R.TROUTT
PURCHASE ORDER #: N/A
SALES ORDER: N/A
DATE: 11/16/2021
DRAWING NO. : SD-140360
SHEET: 6
OF: 6

DSA File No.: *20-30*

DSA Application No.: *02-120517*

IDENTIFICATION STAMP
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Project

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Drawing

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LICENSED ARCHITECT — RICHARD J. AUTEN — No. C26235 — Exp. 10-31-24 — STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: -
Drawn By: -
Checked By: -
Reviewed By: -

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Scale: As indicated
Project Number: 2123
Date: 03/31/2023

FS9.8