GENERAL INFORMATION

ARCHITECTURAL

SITE DEVELOPMENT

TYPICAL INFORMATION

BUILDING A

STRUCTURAL

MECHANICAL

PLUMBING

ELECTRICAL

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)

2022 California Building Code, Volumes 1 and 2 (Part 2, Title 24, CCR)

2022 California Electrical Code (Part 3, Title 24, CCR)

2022 California Mechanical Code (Part 4, Title 24, CCR)

2022 California Plumbing Code (Part 5, Title 24, CCR)

2022 California Energy Code (Part 6, Title 24, CCR)

2022 California Elevator Safety Construction Code (Part 7, Title 24, CCR)

2022 California Fire Code, Part 9, Title 24, CCR)

2022 California Referenced Standards Code (Part 12, Title 24, CCR)

2022 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

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

PROJECT DATA

Project Location:	726 South Pine St. Madera, CA 93637
Owner:	Madera Unified School district 1902 Howard Dr. Madera, CA 92637
Occupancy:	Group F-1
Construction Type:	Type IIA, Fully Automatic Fire Sprinklered
Actual Building Area:	1st Floor = 16,710 SF 2nd Floor = 11,310 SF Total = 28,020 SF
Basic Allowable Area:	Per Floor = 75,000 SF Maximum Bldg. Height = 5 Stories Total Building = 375,000 SF
Allowable Area Increase:	200% due to Fully Automatic Fire Sprinklered System Per Floor: 58,290 SF Maximum Bldg. Height = 5 Stories, 85'-0" Total Building = 291,450 SF

PROJECT SCOPE

This project will consist of the demolition of existing office spaces and a conference room. New construction will include new office spaces, an addition to the existing production kitchen and related PG&E site upgrades.

B14 Project Description

ELECTRICAL
Borrelli And Associates, Inc.
2032 N. Gateway Blvd.
Fresno, CA 93727
(559) 252-4138

MECHANICAL / PLUMBING
Net Positive Consulting Engineers
5 River Park Pl. East
Fresno, CA 93720
(559) 840-7203

STRUCTURAL
Brooks Ransom Associates
7415 N Palm Ave Ste 100
Fresno, CA 93711
T (559) 449-8444
F (559) 449-8404

ARCHITECTURAL
Darden Architects, Inc.
6790 N. West Avenue
Fresno, CA 93711
T (559) 448-8051
F (559) 446-1765

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637

Darden Project Number: *2310*

Date: *xx/xx/xx*

OSHPD No.:
OSHPD Agency Approval

Project Information

darden architects
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PLANNING
INTERIORS
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LICENSED ARCHITECT MATTHEW R. HEISS No. C35878 Ren. 08-31-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

G000

darden architects, inc.
ARCHITECTURE ▪ PLANNING ▪ INTERIORS

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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
1 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

N18 — Exit Width Schedule

No Scale

SYMBOLS

1 Hr Corridor Wall
1 Hr Partition
1 Hr Fire Barrier Occ Sep
1 Hr Fire Barrier
2 Hr Fire Barrier
3 Hr Fire Barrier
2 Hr. Fire Wall
3 Hr. Fire Wall
S—S—S Smoke Barrier Wall
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
1 Hr. Horizontal Assembly
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.

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

BUILDING INFORMATION

Building Id. & Use: Building x - xxxxx
Occupancy Classification: Group ?
Construction Type: Type ?, Fully Automatic Fire Sprinklered
Actual Building Area: 1st Floor = xx,xxx SF
2nd Floor = xx,xxx SF
Total = xx,xxx SF
Basic Allowable Area: Per Floor = xx,xxx SF
Maximum Bldg. Height = x Floors
Total Building = xx,xxx SF
Allowable Area Increase: 200% due to Fully Automatic Fire Sprinklered System
Per Floor: xx,xxx SF
Maximum Bldg. Height = x Floors
Total Building = xx,xxx SF

G18 — Regulatory Compliance Floor Plan Legend

No Scale

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637
Project

GENERAL INFORMATION
REGULATORY FLOOR PLAN
Drawing

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LICENSED ARCHITECT MATTHEW R. REED No. C35878 Exp. 06-31-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed Designer

Scale: 1/8" = 1'-0"
Drawn By: Author
Project Number: 2310
Checked Checker
Date: xx/xx/xx
Reviewed Approver

G102

A1 — Regulatory Compliance Floor Plan

1/8" = 1'-0"

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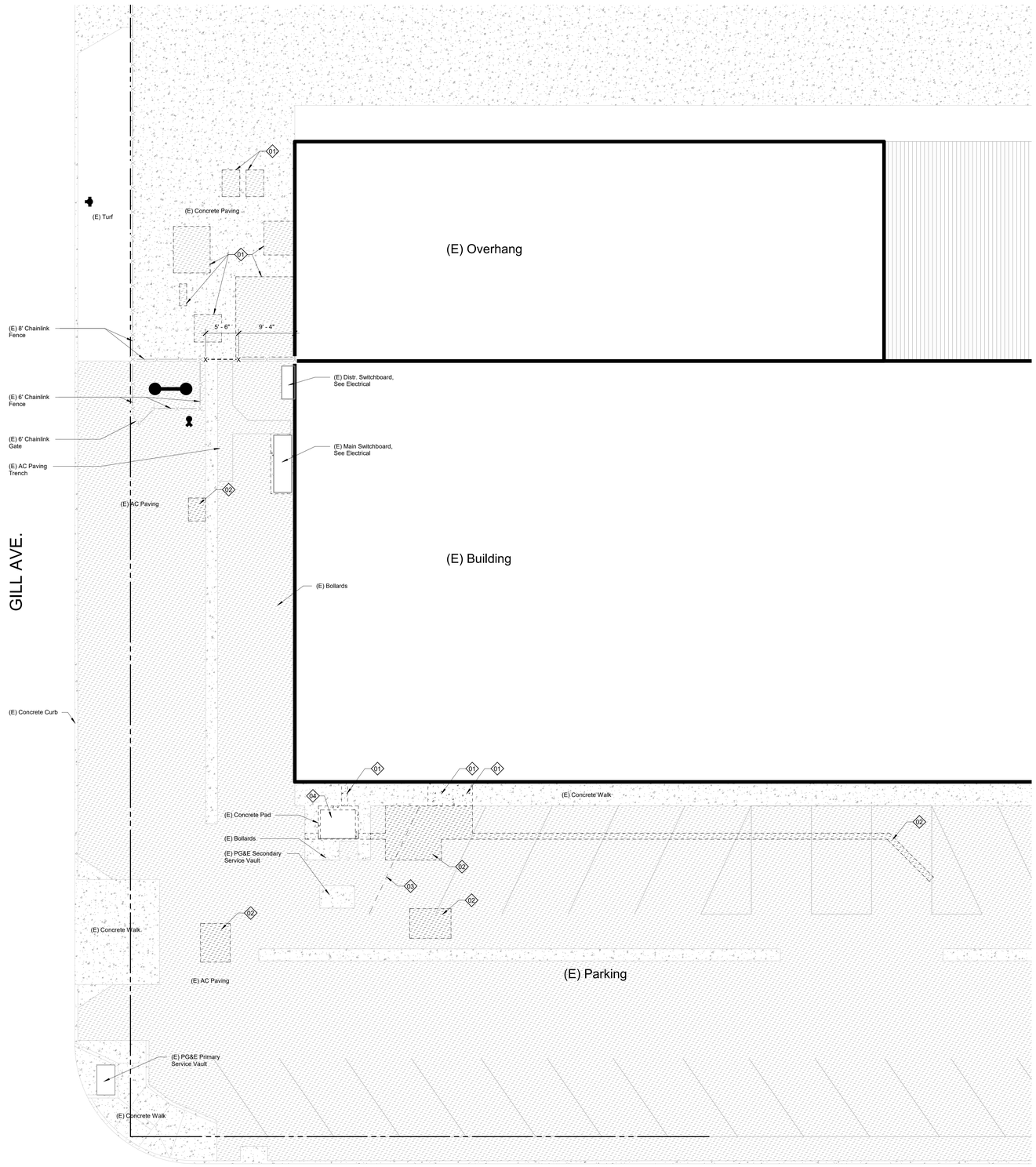

SYMBOLS

- 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 Concrete Paving
- SELECTIVE DEMOLITION, Remove and Dispose of Existing Asphalt Concrete Paving (See Demolition Notes)
- Existing Asphalt Concrete Paving
- SELECTIVE DEMOLITION, Remove and Dispose of Existing Underground Hydronic Piping, See Mechanical Drawings, Typical
- Existing Chain Link Fence
- Existing Tree
- SELECTIVE DEMOLITION, Remove Existing Tree (See Demolition Notes)
- Demolition Note Symbol
- Building Designation
- Existing Building

DEMOLITION NOTES

- 01 CLEARING AND DEMOLITION: Sawcut Existing Concrete as required for new Improvements, Typical
- 02 CLEARING AND DEMOLITION: Sawcut Existing Asphalt as required for new Improvements, Typical
- 03 CLEARING AND DEMOLITION: Remove Existing Parking Stripe
- 04 CLEARING AND DEMOLITION: Existing Transformer to be removed, See Electrical

GENERAL NOTES

1. Refer to Mechanical 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. Refer to Mechanical Drawings to Verify the Mechanical Demolition Work Required within the Existing Mechanical Yard including Mechanical equipment, Overhead piping and all other related items.

H18 — Demolition Partial Site Plan Legend

No Scale

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637

Project

SITE DEVELOPMENT
DEMOLITION SITE PLAN

Drawing

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LICENSED ARCHITECT
MATTHEW R. HEID
No. C35878
Exp. 05-31-25
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed Designer

Scale: As indicated
Drawn By: Author
Project Number: 2310
Checked IChecker
Date: xx/xx/xx
ReviewedApprover

SD/A101

A1 — Demolition Site Plan

1/8" = 1'-0"

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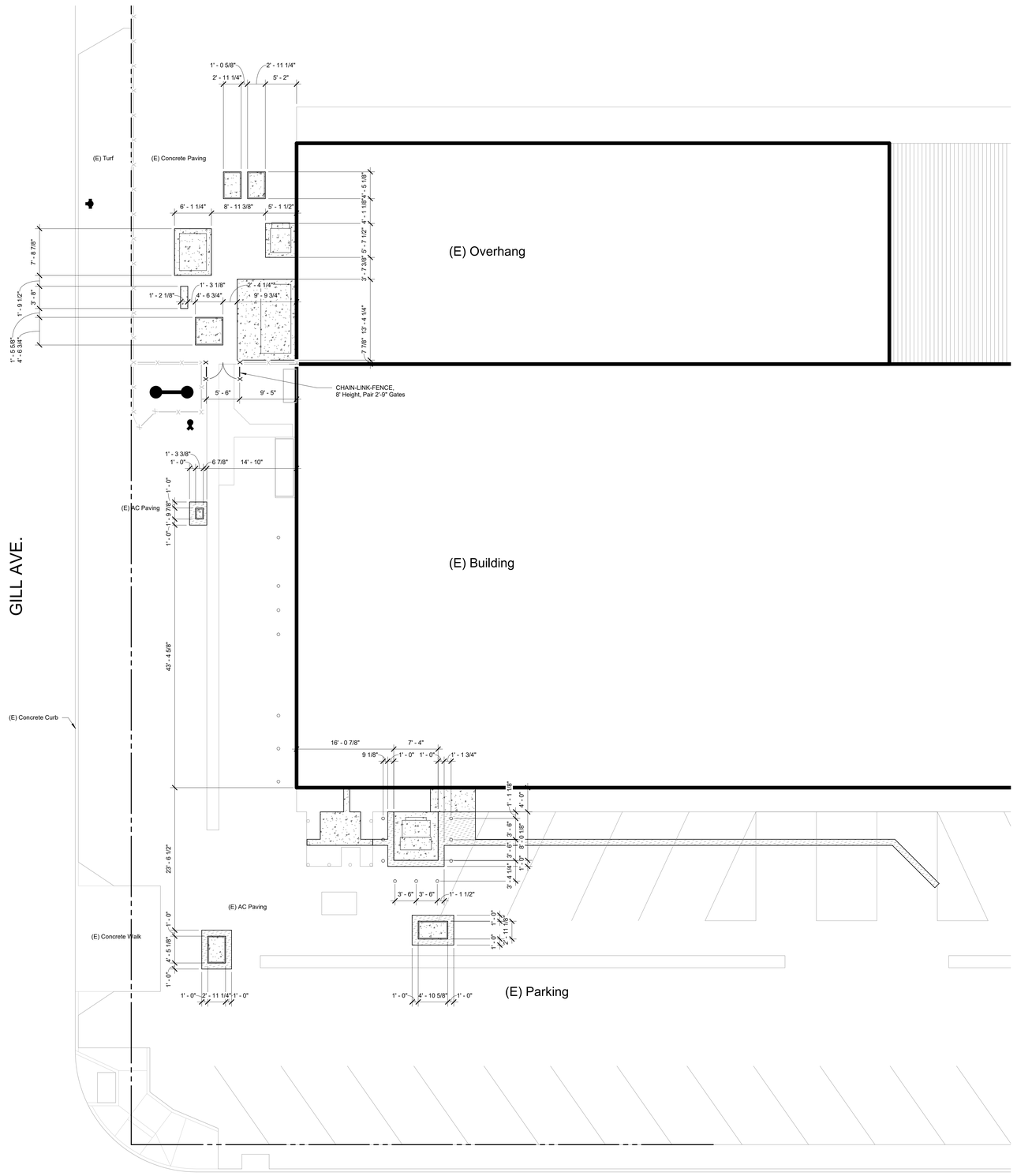

SYMBOLS

- PAVEMENT, Typical Paving Section, 2-1/2" Asphalt Concrete over 6" Aggregate Base over 12" 85% Compacted Fill.
- PAVEMENT, Heavy Paving Section, 4" Asphalt Concrete over 12" Aggregate Base over 95% Compacted Fill.
- CAST-IN-PLACE CONCRETE, 4" Concrete Walk over 6" 90% Compacted Fill.
- CAST-IN-PLACE CONCRETE, 6" Concrete Walk over 12" 90% Compacted Fill.
- CAST-IN-PLACE CONCRETE, Indicates Colored Concrete
- Building Outline
- Property Line
- Limits of Construction (Project Area)
- Staging Fence (Project Area)
- Pipe/Utility
- Covered Area
- PVC Irrigation Sleeve
- Grade Break
- Existing
- Drainage Swale
- Slope (DN) — General Direction of Slope
- ELECTRICAL, Existing Light Pole
- 386 — Finish Grade Contour
- CB — STORM DRAINAGE, Catch Basin or Drain Box
- DB — STORM DRAINAGE, Drain Box
- DI — STORM DRAINAGE, Drain Inlet
- TD — STORM DRAINAGE, Trench Drain
- FH — PLUMBING, Fire Hydrant
- FDC — PLUMBING, Fire Department Connection (Siamese)
- PIV — PLUMBING, Post Indicator Valve
- CO — PLUMBING, Clean Out,
- CO — CIVIL, Sewer Clean Out,
- SOV — PLUMBING, Shut Off Valve,
- ELECTRICAL, Pole Light Fixture,
- ELECTRICAL, Bollard Light Fixture,
- ELECTRICAL, Light Fixture, Directional
- ELECTRICAL & MECHANICAL, Utility Box

ABBREVIATIONS

(E)	Existing	FF	Finish Floor	PL	Planter
AC	Air Conditioning System	FG	Finish Grade	R	Radius
AD	Area Drain, (See Plumbing)	FL	Flow Line	RWL	Rain Water Leader
BW	Back of Walk	FMFCD	Fresno Metropolitan Flood Control District	SD	Storm Drain
C	Concrete	FS	Floor Sink	SL	Site Lighting
CB	Catch Basin	G	Gas	S	Signal
CJ	Control Joint	GT	Gutter	SS	Sanitary Sewer
CM	Communications	GB	Grade Break	TB	Top of Bench
COB	Clean Out Box	RG	Rough Grade	TC	Top of Curb
CW	Cold Water	HPG	High Pressure Gas	TD	Trench Drain
DB	Drain Box	HL	Hydronics Line	TG	Top of Grate
DI	Drain Inlet	INV N	Invert North	TF	Top of Fence
DS	Drainage Swale	INV NE	Invert Northeast	TL	Top of Lid
EMS	Energy Management System	MH	Manhole	TLB	Top of Light Base
E	Electrical Power	MS	Mow Strip	TW	Top of Wall
EJ	Expansion Joint, 1/2"	OC	On Center	Typ.	Typical
F	Fire Protection	P	Pavement	UNO	Unless Noted Otherwise
FD	Floor Drain	P1-P4	Electrical Utility Box	VG	Valley Gutter
FDC	Fire Dept Connection	PIV	Post Indicator Valve	W	Waste

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) STORM DRAINAGE, PVC IRRIGATION SLEEVE Schedule, See XX-XXXX
3) PLUMBING, See Plumbing Drawings
4) ELECTRICAL, See Electrical Drawings
5) LANDSCAPING, See Landscape and Irrigation Drawings
6) Refer to XX-XXXX for Vertical Controls and Grading

G18 — Site Plan Legend

No Scale

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637
Project

PROPOSED SITE PLAN
Drawing

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Architect

No.	Revision/Submission	Date

Revision

	Designed Designer	
Scale: As indicated	Drawn By: Author	SD/A102
Project Number: 2310	Checked IChecker	
Date: xx/xx/xx	Reviewed Approver	

A1 — Proposed Site Plan

1/8" = 1'-0"

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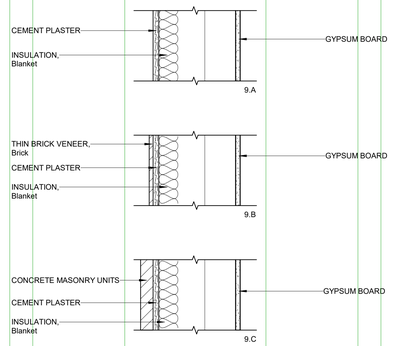
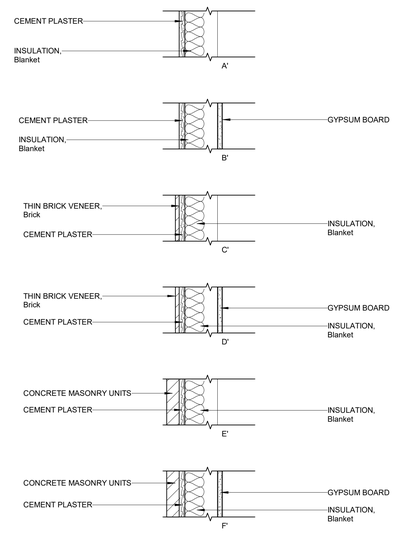
BUBBLES
DIMENSIONS
TEXT

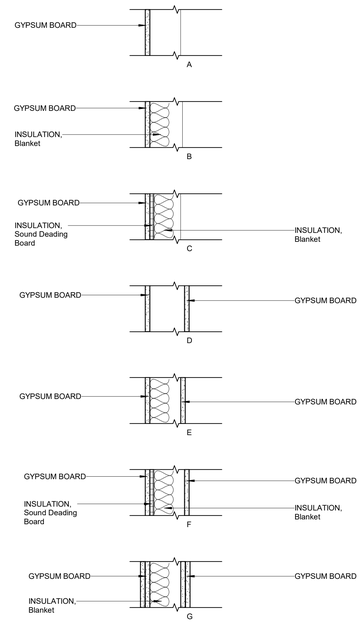
SPECIAL WALL ASSEMBLY



EXTERIOR



INTERIOR



When designated to be [#] Hour, Assemby = CBC Design XX-X.X (Table 720)

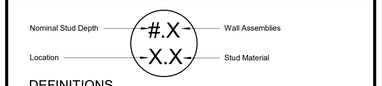
NOTES

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 Systems 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 maximum 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
1	=	1 5/8"	1 1/2"
3	=	3 5/8"	2 1/2"
4	=	4"	3 1/2"
6	=	6"	5 1/2"
8	=	8"	7 1/4"
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

G18 — Typical Wall Assemblies Legend
No scale

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637
Project

TYPICAL INFORMATION
WALL ASSEMBLIES
Drawing

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Architect

No.	Revision/Submission	Date

Revision

Designed Designer
Drawn By: Author
Checked tChecker
Reviewed Approver

Scale: As indicated
Project Number: 2310
Date: xx/xx/xx

X/A101

A11 — Exterior Wall Assembly
1 1/2" = 1'-0"

A14 — Interior Wall Assembly
1 1/2" = 1'-0"

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Interior Finish Schedule

Room Number	Room Name	Floor Finishes						Wall Finishes						Ceiling Finishes				Miscellanous Finishes				Remarks
		CAST-IN-PLACE CONCRETE, Concrete Slab		RESINOUS FLOORING, Epoxy, Type 1		RESILIENT BASE AND ACCESSORIES, Rubber Wall Base, 4"	RESINOUS FLOORING, Base		GYPSUM BOARD, Wallboard, (Texture GB-2)	TILE, Ceramic Tile, SYS-IWD (WR Gyp Bd - Thin Set)	FRP Panels over Gypsum Board, Water Resistant (GB-3)	(E) Gypsum Board		ACOUSTICAL CEILINGS, Suspension System	GYPSUM BOARD, Wallboard (Texture GB-2),	(E) Acoustical Ceiling		METAL DOORS AND FRAMES, Doors, Panels and Frames	WALL AND CORNER GUARDS, Impact Resistant Wall Covering	(E) Metal Doors and Frames		
101	Entry	GL-5, GGL-II	-		FF	-		DW-2	-	-	DW-2			-	-	(E)		M-2	-	-		
102	Open Office	GL-5, GGL-II	-		FF	-		DW-2	-	-	DW-2			FF	-	-		M-2	-	M-2		
103	Office	GL-5, GGL-II	-		FF	-		DW-2	-	-	DW-2			FF	-	-		M-2	-	-		
104	Break Room	GL-5, GGL-II	-		FF	-		DW-2	CT-1	-	DW-2			-	-	(E)		M-2	-	-		
105	Dry Storage	-		FF	-	FF		-	-	FF	-			FF	-	-		M-2	-	-		
106	Kitchen	-		FF	-	FF		-	CT-1	FF	-			FF	DW-2	-		M-2	FF	M-2		
117	Production	-		-	-	-		DW-2	-	-	-			-	-	-		-	-	-		1
119	Open Office	GL-5, GGL-II	-		FF	-		DW-2	-	-	DW-2			FF	-	(E)		M-2	-	-		
120	Reception	GL-5, GGL-II	-		FF	-		DW-2	-	-	DW-2			-	-	(E)		M-2	-	M-2		

J11	Interior Finish Schedule
No Scale	Refer to J18 for Notes

ABBREVIATIONS

CFS	=	Clear Floor Sealer
CFH	=	Clear Floor Hardener
CT#	=	Ceramic Tile Type
FF	=	Factory Finish
GL	=	Gloss Level
GGL	=	Grind Grade Level
RF#	=	Resinous Floor Type
*	=	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 E7/XA603
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 application.
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. Only finish work to occur in Production 117 is paint.

J18	Interior Finish Schedule Legend
No Scale	

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637
Project

TYPICAL INFORMATION
INTERIOR FINISH SCHEDULE
Drawing

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LICENSED ARCHITECT MATTHEW R. REED No. C35878 Exp. 05-31-09 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

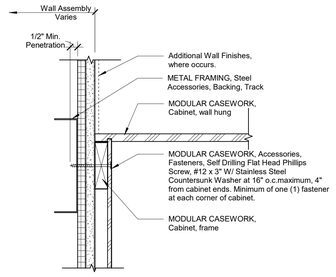
Scale:	1/8" = 1'-0"	Designed By:	-
		Drawn By:	-
Project Number:	2310	Checked By:	-
Date:	xx/xx/xx	Reviewed By:	-

X/A201

Casework Schedule

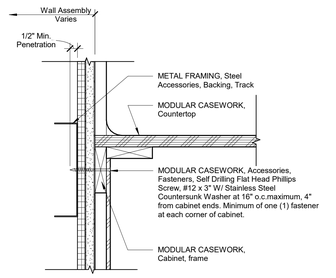
Room No	Group No.	Description	Catalog No.	No Req'd	Length	Height	Depth	Accessories	Remarks
102	a 102	Base Cabinet w/ Drawers	223	1	3' - 0"	2' - 10 1/2"	2' - 0"		
102	a 102	Base Cabinet w/ Drawers	254	1	1' - 3"	2' - 10 1/2"	2' - 0"		
102	a 102	Wall Hung Cabinet	301	1	1' - 3"	2' - 6"	1' - 2"		
102	a 102	Wall Hung Cabinet	312	2	3' - 0"	2' - 6"	1' - 2"		
102	a 102	Counter Top	-	1		2' - 10"	2' - 1"		
104	a 104	Base Cabinet w/ADA Plumbing Cover	157	1	3' - 0"	2' - 10 1/2"	2' - 0"		
104	a 104	Base Cabinet w/ Drawers	212	1	3' - 0"	2' - 10 1/2"	2' - 0"		
104	a 104	Wall Hung Cabinet	312	1	3' - 0"	1' - 3"	1' - 2"		
104	a 104	Wall Hung Cabinet	326	1	2' - 6"	2' - 2"	1' - 2"		
104	a 104	Wall Hung Cabinet	326	2	3' - 0"	2' - 2"	1' - 2"		
104	a 104	Counter Top	-	1		2' - 10"	2' - 1"		3
104	a 104	Microwave Lower Cabinet	Custom	1	2' - 6"	2' - 10 1/2"	2' - 0"		
106	a 106	Base Cabinet w/o Drawers	100	1	3' - 6"	2' - 8 1/2"	2' - 0"		
106	a 106	Base Cabinet w/o Drawers	100	2	3' - 6"	2' - 8 1/2"	1' - 2"		
106	a 106	Base Cabinet w/ Drawers	223	1	2' - 6"	2' - 8 1/2"	2' - 0"		
106	a 106	Base Cabinet w/ Drawers	223	1	2' - 0"	2' - 8 1/2"	2' - 0"		
106	a 106	Base Cabinet w/ Drawers	254	2	2' - 0"	2' - 8 1/2"	2' - 0"		
106	a 106	Counter Top	-	1		2' - 10"	5' - 0"		2
106	a 106	Counter Top	-	1		3' - 3"	5' - 0"		1
117	a 117	Custom Casework	Custom	1	24' - 0"	3' - 7"	4' - 3"		4

M1 — Modular Casework Schedule
No Scale



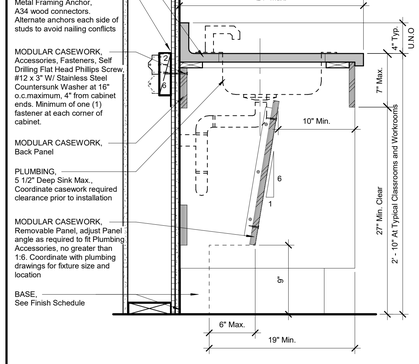
CONDITION @ METAL STUD WALL

E1 — MODULAR CASEWORK, Cabinet Wall Hung Anchorage
3" = 1'-0"

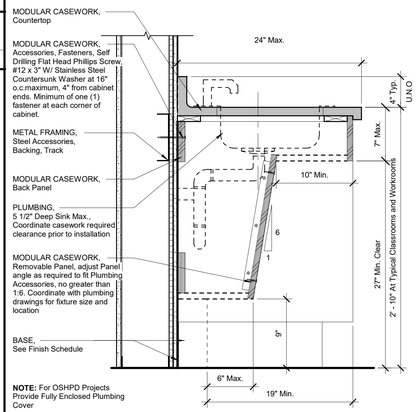


CONDITION @ METAL STUD WALL

A1 — MODULAR CASEWORK, Cabinet Base Anchorage
3" = 1'-0"



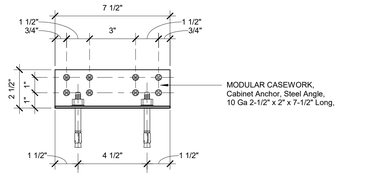
Condition at Wood Stud Wall



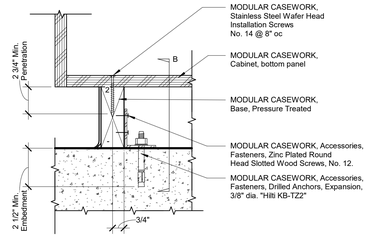
NOTE: For OSHPD Projects Provide Fully Enclosed Plumbing Cover

Condition at Metal Stud Wall

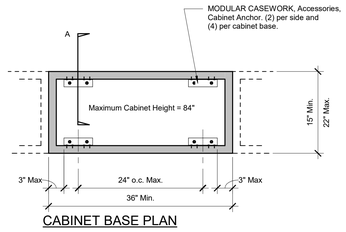
A4 — MODULAR CASEWORK, Cabinet Door, Accessible Sink Base
1 1/2" = 1'-0"



SECTION "B"



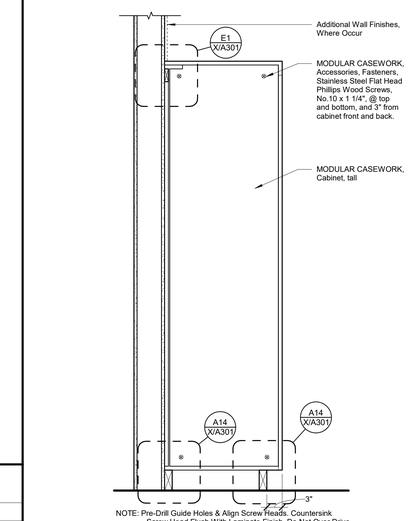
SECTION "A"



CABINET BASE PLAN

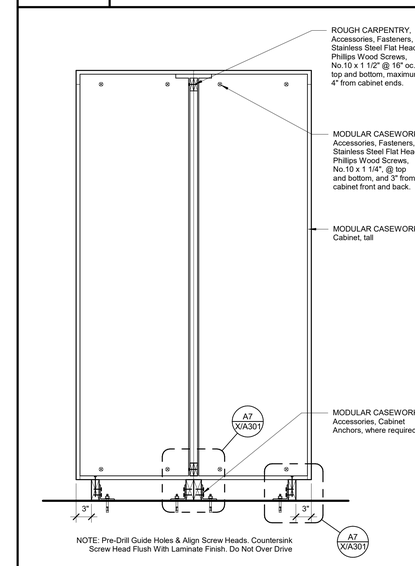
NOTE: Pre-Drill Guide Holes & Align Screw Heads. Countersink Screw Head Flush With Laminate Finish. Do Not Over Drive

A7 — MODULAR CASEWORK, Cabinet Base Anchorage
3" = 1'-0"



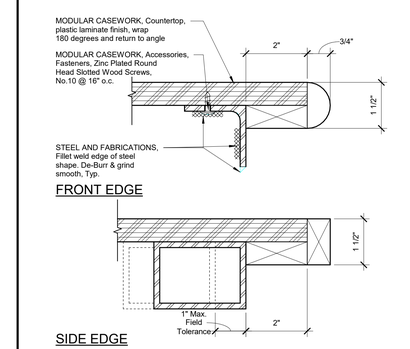
NOTE: Pre-Drill Guide Holes & Align Screw Heads. Countersink Screw Head Flush With Laminate Finish. Do Not Over Drive

L11 — MODULAR CASEWORK, Cabinet, Tall
1" = 1'-0"

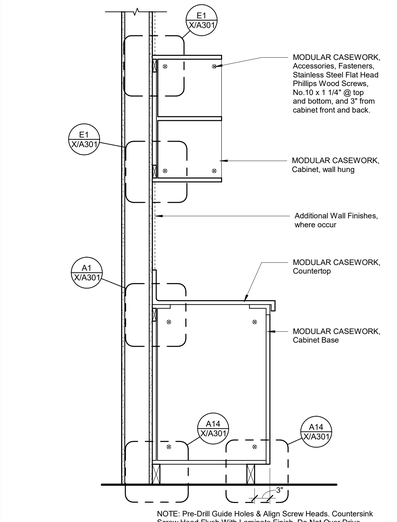


NOTE: Pre-Drill Guide Holes & Align Screw Heads. Countersink Screw Head Flush With Laminate Finish. Do Not Over Drive

E11 — MODULAR CASEWORK, Cabinet, Free Standing, Tall
1" = 1'-0"

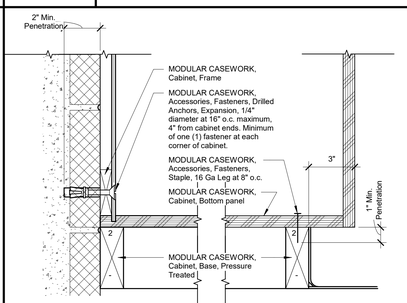


A11 — MODULAR CASEWORK, Countertop, Solid Stock Edges
6" = 1'-0"

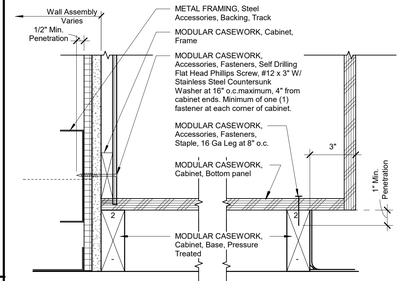


NOTE: Pre-Drill Guide Holes & Align Screw Heads. Countersink Screw Head Flush With Laminate Finish. Do Not Over Drive

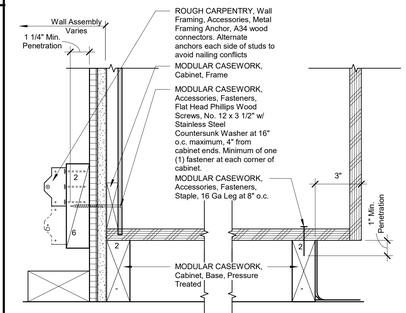
L14 — MODULAR CASEWORK, Cabinet, Wall Hung & Base
1" = 1'-0"



CONDITION AT CONCRETE MASONRY WALL



CONDITION AT METAL STUD WALL



CONDITION AT WOOD STUD WALL

NOTE: Pre-Drill Guide Holes & Align Screws Heads. Do Not Over Drive

A14 — MODULAR CASEWORK, Cabinet Base Anchorage
3" = 1'-0"

TYPICAL NOTES

1. This schedule is provided for the convenience of the contractor. field verify all conditions and dimensions prior any fabrication
2. Schedule dimensions shall be considered nominal
3. See Sheet X/A301 for modular casework attachment and details.
4. All details, materials, and finishes shall be considered typical for all similar conditions unless noted otherwise.
5. W.I. Number cabinet designs with suffix "M" shall be modified as indicated or detailed.
6. Provide all filler pieces, scribe strips, flush panels and closures, matching modular cabinetwork, required to complete cabinetwork assemblies and close the finish surfaces.
7. Provide cabinet door and drawer locks at all cabinets unless noted otherwise.
8. All base cabinets, counters and desks shall have countertops constructed in accordance with the Architectural Woodwork Institute of Architectural Woodwork Standards, Section 11 for custom grade as modified by Specification Section 06 41 23, MODULAR CASEWORK, unless noted otherwise.

   P = premium grade
   E = economy grade
   C = custom grade
9. All cabinets shall be constructed in accordance with the Architectural Woodwork Institute of Architectural Woodwork Standards, Section 10 for custom grade as modified by Specification Section 06 41 23, MODULAR CASEWORK, unless noted otherwise.
10. All countertops shall be have 6" integral self coved Back and End Splashes, unless noted otherwise. Refer to interior elevations for splash heights which may vary in height. Align splashes with other materials, if shown to be aligned.
11. Base cabinet counter heights shall not exceed 34" in height, unless otherwise noted for undercounter equipment which requires at 36" counter height. In the event the interior elevations or cabinet schedule indicate a 36" counter height, the actual height shall be verified prior to and fabrication.
12. See MODULAR CASEWORK specification for shelves, typical.

REMARKS

1. MODULAR CASEWORK, Countertop to be Butcher Block
2. MODULAR CASEWORK, Countertop to be Stainless Steel
3. MODULAR CASEWORK, Countertop to be Solid Surfacing
4. MODULAR CASEWORK, Custom Casework, see sheet X/A311

J18 — MODULAR CASEWORK , Notes
No Scale

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637
Project

TYPICAL INFORMATION
MODULAR CASEWORK SCHEDULE AND DETAILS
Drawing

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LICENSED ARCHITECT MATTHEW R. REISS No. C35878 Rev. 05-31-08 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

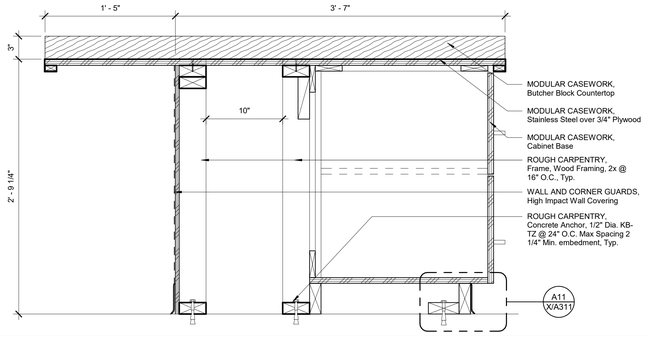
Revision

Designed Designer
Drawn By: Author
Checked Checker
Reviewed Approver

Scale: As indicated
Project Number: 2310
Date: xx/xx/xx

X/A301

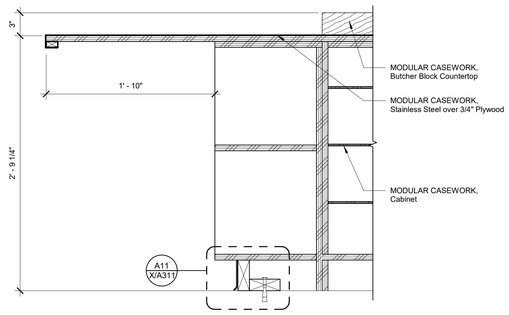
8/28/2024 9:27:49 AM
C:\Users\williamc\Documents\2310 MUSD Child Nutrition Protein Kitchen Remodel_williamcDD5LG.rvt



N1

1 1/2" = 1'-0"

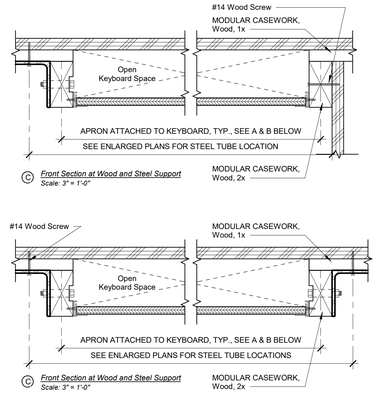
MODULAR CASEWORK, Kitchen Island
Section A



J1

1 1/2" = 1'-0"

MODULAR CASEWORK, Kitchen Island
Section B

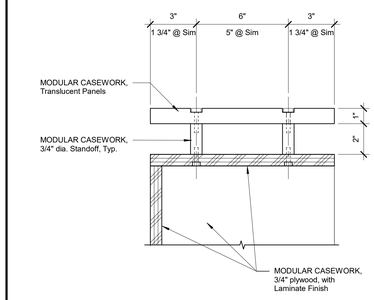


See Elevations on Sheets A/A108, A/A109, and A/A110

J7

3" = 1'-0"

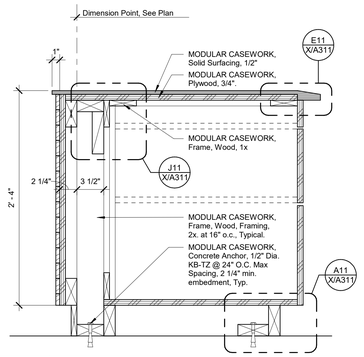
MODULAR CASEWORK, Hardware - Keyboard Tray



N11

3" = 1'-0"

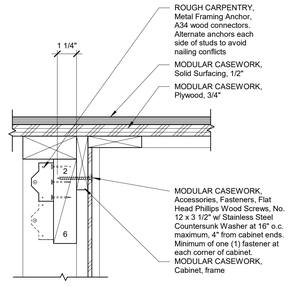
MODULAR CASEWORK, Admin Desktop Stand-offs



N14

1 1/2" = 1'-0"

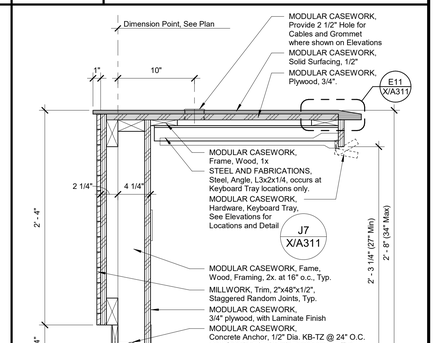
Admin Desk - Section



J11

3" = 1'-0"

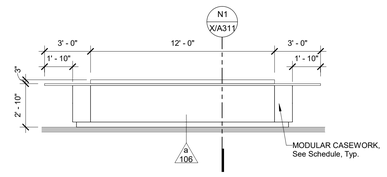
MODULAR CASEWORK, Cabinet Anchorage

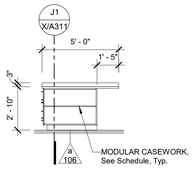


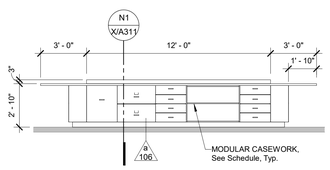
J14

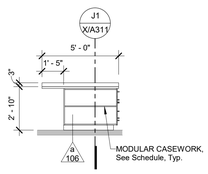
1 1/2" = 1'-0"

Admin Desk - Section





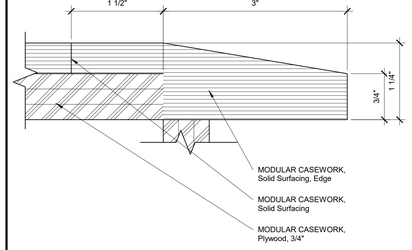




E1

1/4" = 1'-0"

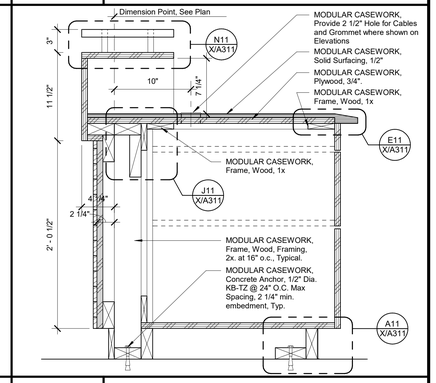
MODULAR CASEWORK, Kitchen Island
Elevations



E11

12" = 1'-0"

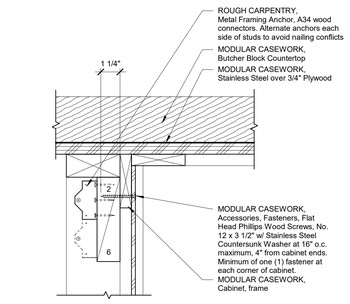
MODULAR CASEWORK, Admin Desk Edge Trim



E14

1 1/2" = 1'-0"

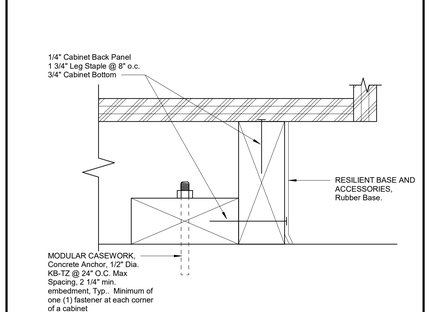
Admin Desk - Section



A7

3" = 1'-0"

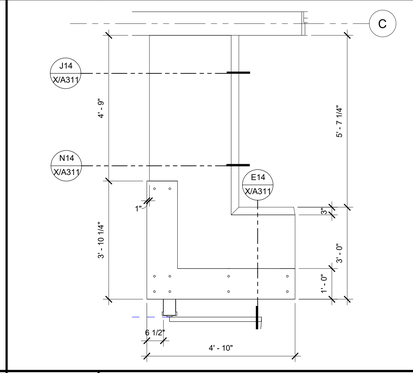
MODULAR CASEWORK, Cabinet Anchorage - Butcher Block



A11

6" = 1'-0"

MODULAR CASEWORK, Casework - Base



A14

1/2" = 1'-0"

Admin Desk - Enlarged Plan

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637
Project

CUSTOM CASEWORK DETAILS
Drawing

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LICENSED ARCHITECT
MATTHEW R. HEID
No. C35878
Exp. 05-31-25
STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

	Designed Designer	Copyright 2022 Darden Architects
Scale: As indicated	Drawn By: Author	X/A311
Project Number: 2310	Checked IChecker	
Date: xx/xx/xx	Reviewed Approver	

8/28/2024 9:27:50 AM
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Opening Schedule Door

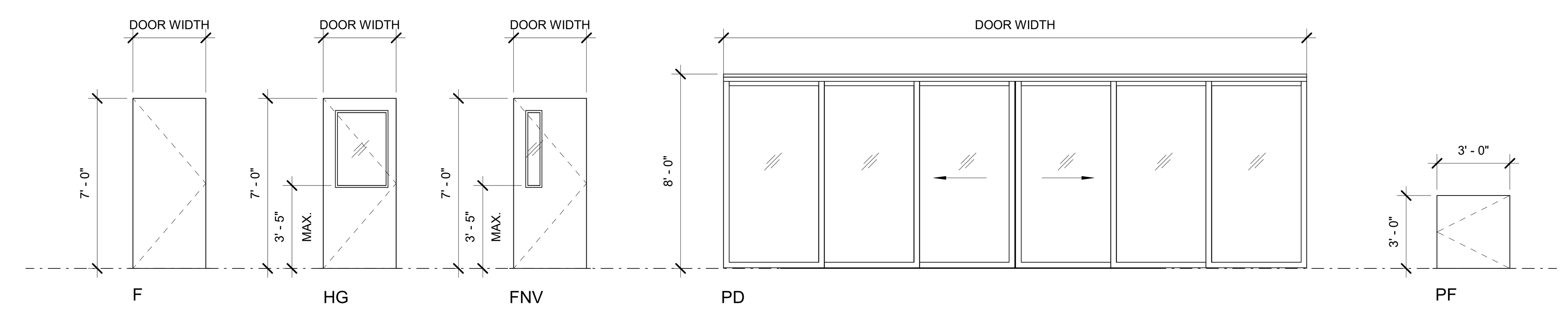
Door No.	Frame Type	Size: Width	Size: Height	Size: Thickness	Door Material	Model No	Door Type	Glass Type	Louver Type	Head	Jamb	Threshold	Hardware: Group	Hardware: Keying Room No	Fire Rating	Comments
102 c	HM-1	3' - 0"	7' - 0"	1 3/4"	HM		F	-	-	N7/X/A603	J7/X/A603	E7/X/A603	78C	101/102		
102 d	HM-2	2' - 8"	7' - 0"	1 3/4"	HM		HG		-	N7/X/A603	J7/X/A603	E7/X/A603	78C	102/106		
103 b	HM-1	3' - 0"	7' - 0"	1 3/4"	HM		FNV		-	N7/X/A603	J7/X/A603	E7/X/A603	73	102		
104 a	HM-3	4' - 0"	7' - 0"	1 3/4"	-		-	-	-	N7/X/A603	J7/X/A603	E7/X/A603	-	-		
106 a	-	24' - 1 7/8"	8' - 1 1/2"	1 3/4"	AL		PD		-	N4/X/A603 & J7/X/A603	E4/X/A603	A4/X/A603	-	-		
118 a	HM-1	3' - 0"	7' - 0"	1 3/4"	HM		F	-	-	N7/X/A603	J7/X/A603	E7/X/A603	-	-		
119 a	HM-4	3' - 0"	3' - 0"	4' - 0"	HM		PF	-	-	-	J7/X/A603	E7/X/A603	10	-		
120 a	HM-1	3' - 0"	7' - 0"	1 3/4"	HM		F	-	-	N7/X/A603	J7/X/A603	E7/X/A603	99C	120		

N9 — Opening Schedule, Doors
N.T.S. — Refer to F18 for Legend Abbreviations, Notes and Comments

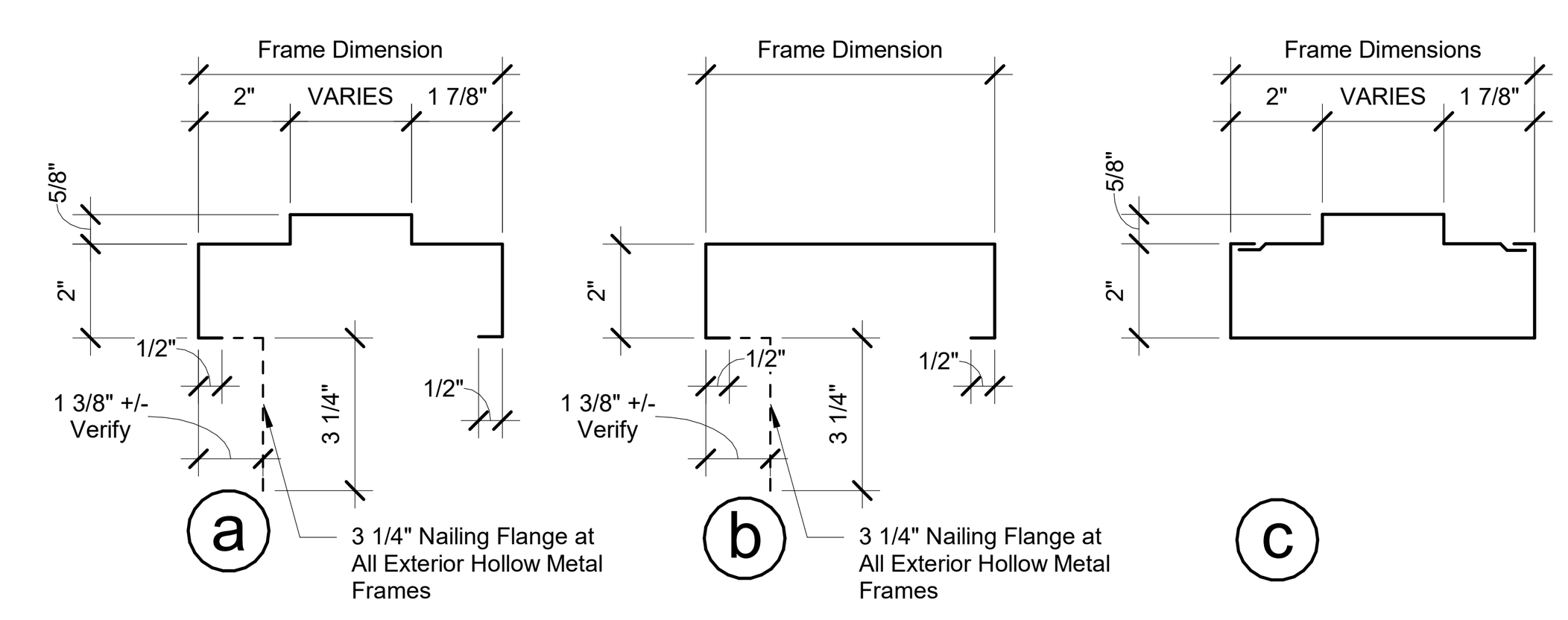
Opening Schedule Window

Window No.	Frame Type	Size: Width	Size: Height	Material	Head	Jamb	Sill	Glazing Type	Fire Rating	Comments
102 a	HM-5	6' - 0"	4' - 0"	HM	N1/X/A603	J1/X/A603	E1/X/A603	G1-1T		
102 b	HM-5	6' - 0"	4' - 0"	HM	N1/X/A603	J1/X/A603	E1/X/A603	G1-1T		
103 a	HM-5	6' - 0"	4' - 0"	HM	N1/X/A603	J1/X/A603	E1/X/A603	G1-1T		

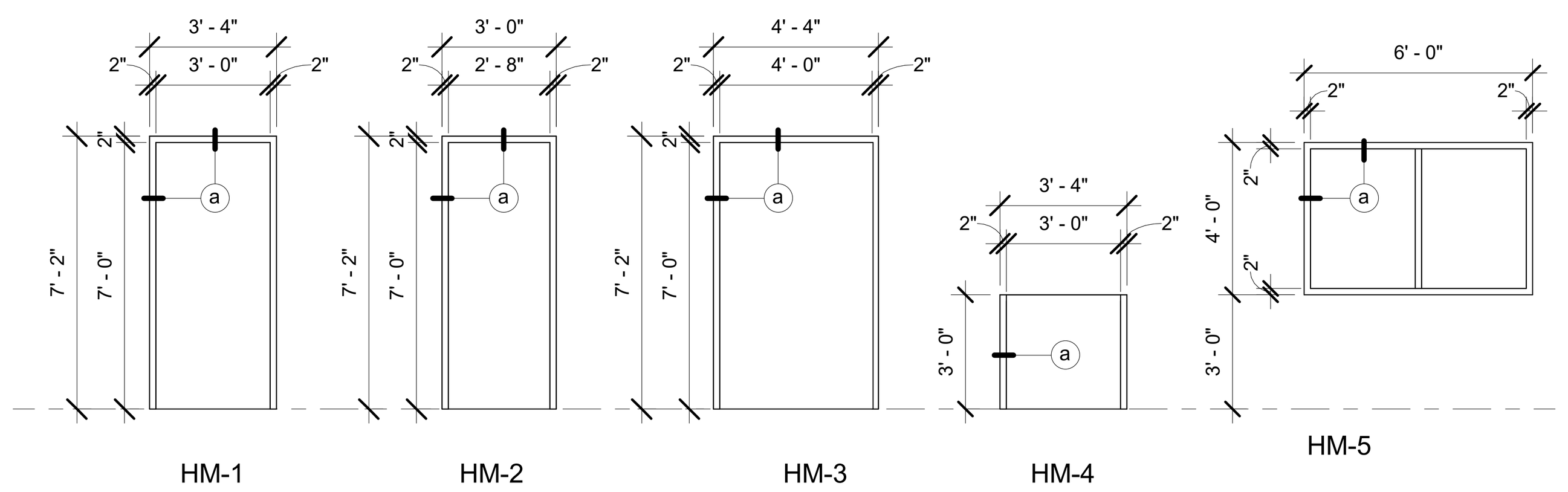
K9 — Opening Schedule, Windows
N.T.S. — Refer to F18 for Legend Abbreviations, Notes and Comments



G9 — Door Types
1/4" = 1'-0"



D9 — Hollow Metal Frame Details
3" = 1'-0"



A9 — Opening Frame Elevations
1/4" = 1'-0"

HARDWARE GROUP NO. 10 – BI-FOLD DOOR

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HW HINGE	1303-3	US26D	HAG

HARDWARE GROUP NO. 73 – CLASSROOM SECURITY LOCK - INTERIOR CLASSROOMS

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HW HINGE	5BB1HW 4.5 X 4.5	652	IVE
1 EA	CLASSROOM SECURITY	ND73TD SPA XN12-035	626	SCH
1 EA	PRIMUS CORE	20-740	626	SCH
1 EA	FLOOR STOP	F18S	626	IVE
3 EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 78C – CLASSROOM SECURITY LOCK - INTERIOR / CLASSROOMS

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HW HINGE	5BB1HW 4.5 X 4.5	652	IVE
1 EA	CLASSROOM SECURITY	ND78TD SPA XN12-035	626	SCH
2 EA	PRIMUS CORE	20-740	626	SCH
1 EA	FLOOR STOP	F18S	626	IVE
3 EA	SILENCER	SR64	GRY	IVE
1 EA	SURFACE CLOSER	4040XP REG OR PA AS REQ	689	LCN

HARDWARE GROUP NO. 99C – INTERIOR DOOR WITH PANIC HARDWARE

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HW HINGE	5BB1HW 4.5 X 4.5	652	IVE
1 EA	PANIC HARDWARE	CD-AX-99-NL-OP-110MD-PA	626	VON
1 EA	RIM CYLINDER	20-057-ICX	626	SCH
1 EA	MORTISE CYLINDER	20-061-ICX XQ11-948 (DOGGING)	626	SCH
2 EA	PRIMUS CORE	20-740	626	SCH
1 EA	DOOR PULL	VR910 NL	630	IVE
1 EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1 EA	FLOOR STOP	F18S	626	IVE
3 EA	SILENCER	SR64	GRY	IVE

A14 — Door Frame Hardware Groups
1/4" = 1'-0"

ABBREVIATIONS

- OSS - STEEL WINDOWS, Frames, Operable Steel Sash, Refer to sheet: X/XXXX.
- SG - Steel Gate
- SW - Service Window
- STL - Steel
- AL - Aluminum
- SF - Storefront
- HM - Hollow Metal
- SG - Site Gate
- SPF - Steel Post Fence
- AC - Acoustical
- SS - Stainless Steel
- CL - Chain Link
- WD - Wood
- CD - COILING DOORS,
- GALV - Galvanized Finish
- S&F - Steel and Fabrications
- RO - Rough Opening

GENERAL NOTES

Legend Must be edited for each project

1. This schedule is provided for the convenience of the General Con… Dimensions indicated are nominal dimensions.
2. The General Contractor is responsible for all coordination a… drawings and verifying all field conditions and dimensions … n. Not all detail references are included in the schedule.
3. Provide metal closure plates for HM Frames at co… Refer to Detail XX-X/A4XX.
4. All details, materials and finishes shall be c… conditions unless noted otherwise.
5. All fire rated doors shall be automati… in Section 716.5.9, 2013 CBC.
6. Fire rated door frames shall b… …nufacturer's instructions. Manufacturer'… to inspecting authorities.
7. Door Types are show…
8. Frame Types ar… …/A4XX.
9. Special Inse…
10. Paint o… …schedule for metal surfaces.
11. Fo… …X/A4XX
12. … …nside without the use of a key or any
13. …ng Head, … …d Sill framing conditions, see Structural Drawings.
14. …erior wall locations, provide flashing as noted in Opening Schedule …mments #1, whether noted in the schedule or not.
15. Doors, and sidelites 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.

Check your doors and Sidelites!!

OPENING SCHEDULE COMMENTS

1. See Detail XX-X/A4XX for flashing at Hollow Metal Doors: Exterior wall locations. See Detail XX-X/A4XX for flashing at Storefront: Exterior wall locations.
2. For "Special Inserts"-Louver at exterior wall locations, See detail XX-X/A4XX.
3. Sound Assembly
4. For toilet partitions - See detail XX-X/A6XX.
5. HARDWARE, Exit/Panic Devices, section HARDWARE, where occurs.
6. HARDWARE, Wall Stop, See detail XX-X/A4XX for wall backing, Typ.
7. HARDWARE, Floor Stop, See detail XX-X/A4XX.
8. Relief Air Louver. See mechanical drawings.
9. Provide two (2) panels of Acoustical Glazing at Acoustical Doors & Frames
10. Door and Frame by Elevator Manufacturer. See Specifications.
11. Floor Stop and Holder - See detail XX-X/A4XX.
12. Dutch Doors - See detail XX-X/A3XX.
13. Toilet Partition Door Stop - See detail XX-X/A6XX.
14. HARDWARE, Removable Mullion - See Detail XX-X/A4XX.
15. 1 Hour Corridor Wall (1 Hour Fire Resistive Construction, 20 min. Door Assemblies, 45 min. Window Assemblies).
16. Refer to Mechanical for Louver Information
17. Speaker Hole through glass
18. Acoustical Assembly
19. 1 Hour Occupancy Separation Fire Barrier (1 Hour Fire Resistive Construction) 45 Min. Door Assemblies, 45 Min. Window Assemblies.
20. 1 Hour Fire Barrier - Shafts, Exit Enclosures (1 Hour Fire Resistive Construction) 60 Min. Door Assemblies
21. 2 Hour Fire Barrier Wall (2 Hour Fire Resistive Construction) 1 1/2 Hr. Door Assemblies

G18 — Opening Schedule Legend
No Scale

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637
Project

TYPICAL INFORMATION
OPENING SCHEDULES
Drawing

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Architect

No.	Revision/Submission	Date

Revision

	Designed Designer	
Scale: As indicated	Drawn By: Author	X/A401
Project Number: 2310	Checked Checker	
Date: xx/xx/xx	Reviewer Approver	

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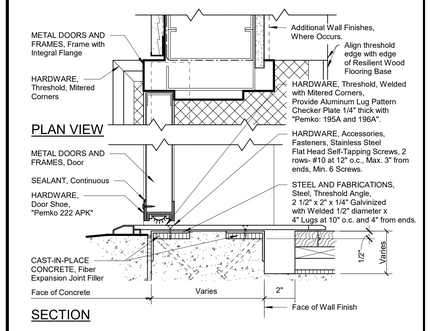

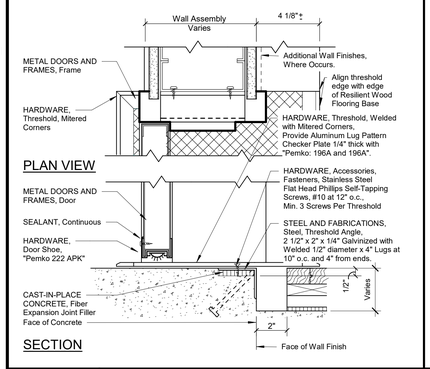

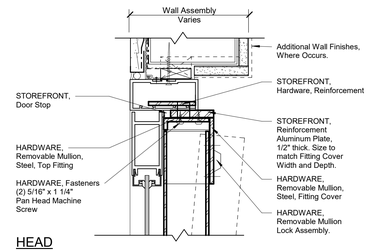

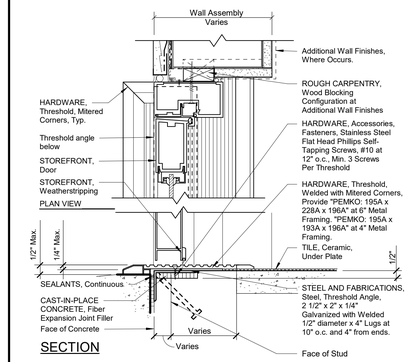

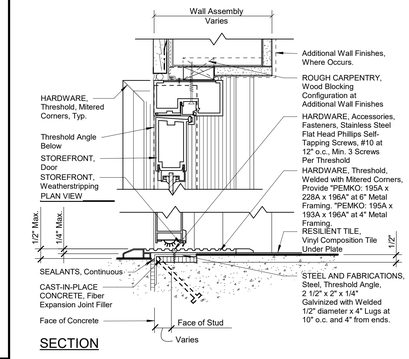

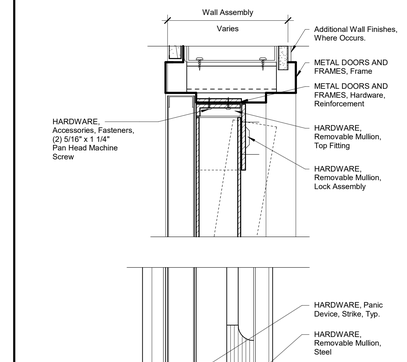

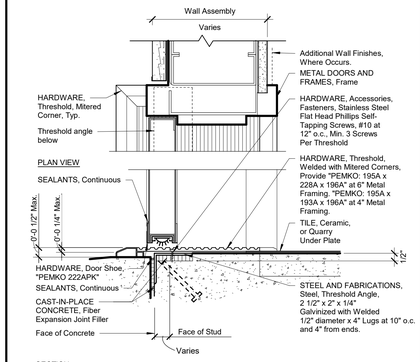

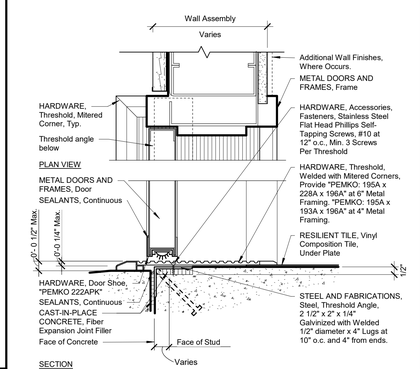

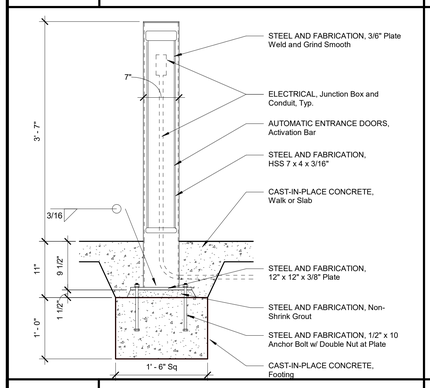

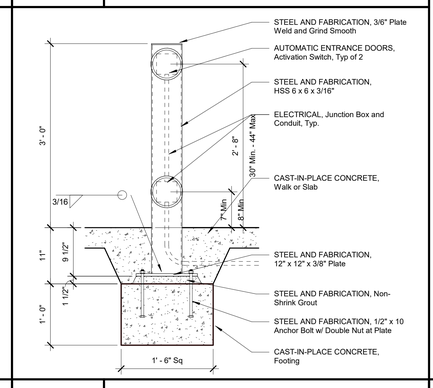

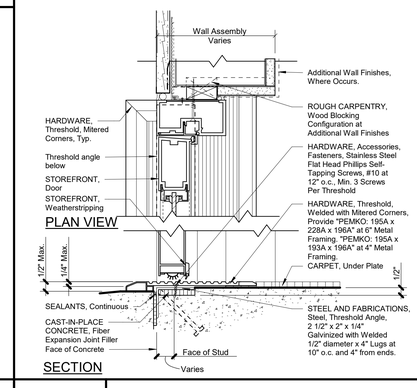

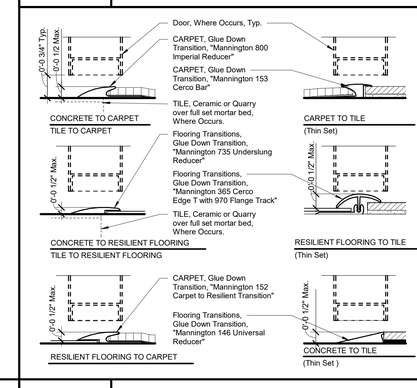

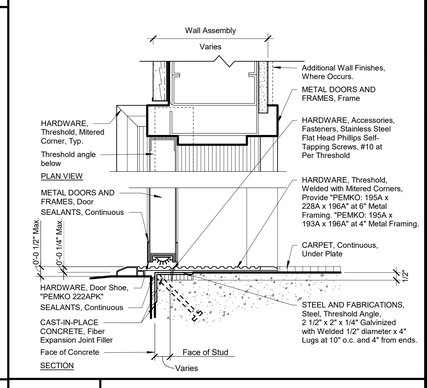

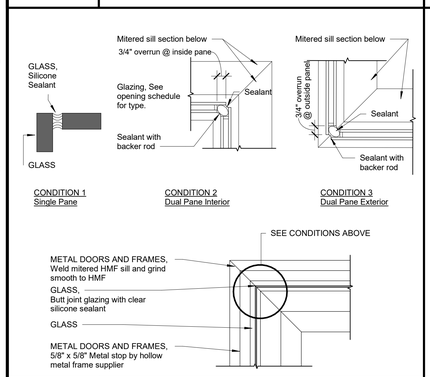

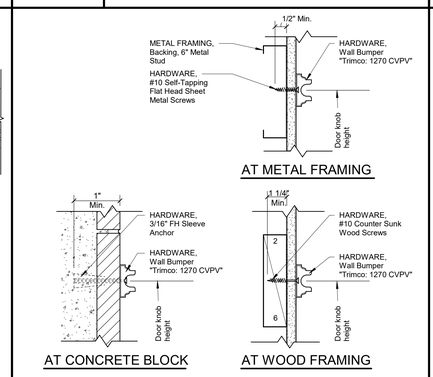

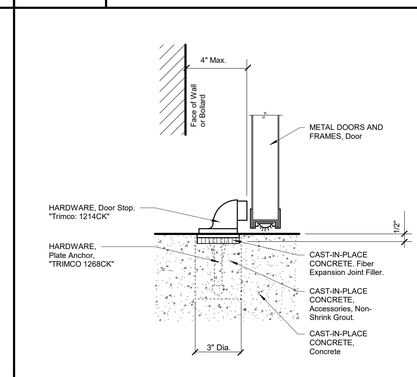

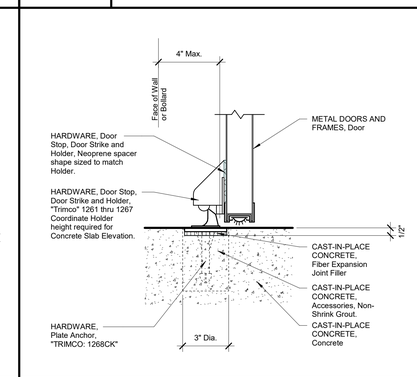

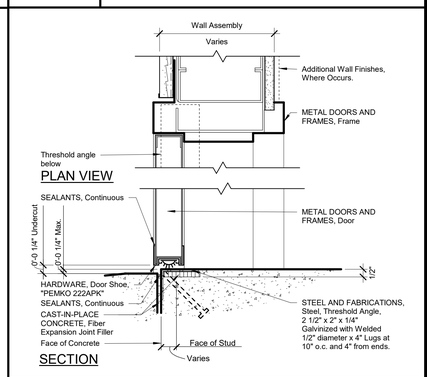

DSA File No.:
DSA File

DSA Application No.:
DSA App

Agency Approval

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 XX-X/AXXX, XX-X/AXXX, XX-X/AXXX
6. DETAIL REFERENCES: All Detail References are to this sheet, unless otherwise noted.

H18

OPENING NOTES, THRESHOLD

No Scale

General Notes

Consultant

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637

Project

HARDWARE

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Architect

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Revision

Designed Designer

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Drawn By: Author
Project Number: 2310
Checked fChecker
Date: xx/xx/xx
ReviewedApprover

X/A410

Sheet: _____ of: _____

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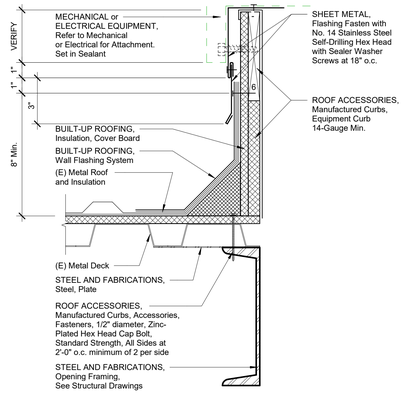
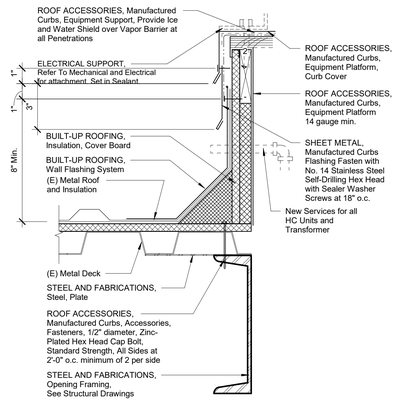


M1

3" = 1'-0"

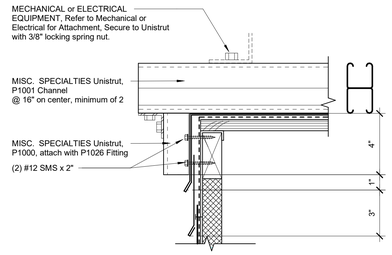
ROOF ACCESSORIES, Manufactured Curbs, Equipment



G1

3" = 1'-0"

ROOF ACCESSORIES,
Manufactured Curbs, Equipment Platform



A1

3" = 1'-0"

MISCELLANEOUS SPECIALTIES,
Attachment Detail to Equipment Platform

Child Nutrition Kitchen
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EXTERIOR DETAILS

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LICENSED ARCHITECT
MATTHEW R. REED
No. C35878
Exp. 06-30-25
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed Designer	Copyright 2022 Darden Architects
Scale: 3" = 1'-0"	Drawn By: Author	X/A501
Project Number: 2310	Checked Checker	
Date: xx/xx/xx	Reviewed Approver	

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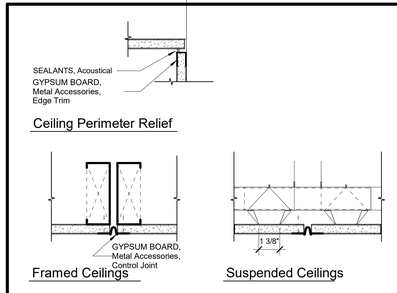
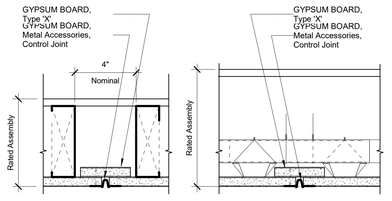
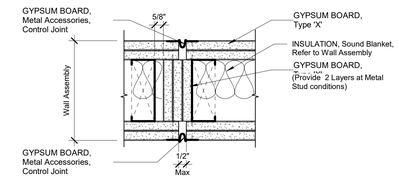


NOTE:
1. Unless Otherwise indicated Control Joint shall be provided at continuous Interior Partitions with uninterrupted planes that exceed 30'-0" in length or 900 sf in area.
2. Unless Otherwise indicated Control Joint shall be provided at continuous Ceilings with uninterrupted planes that exceed 50' in length or 2500 sf in area with perimeter relief, or Ceilings exceeding 30'-0" in length or 900 sf in area without perimeter relief.

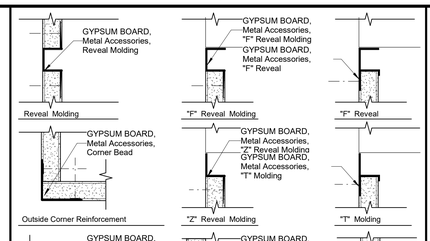
J1 — GYPSUM BOARD, Metal Accessories, Control Joints, Non-Rated Wall and Ceilings
3" = 1'-0"





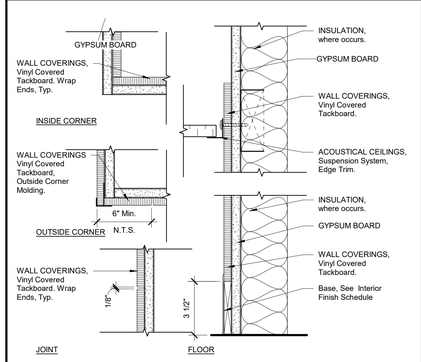
NOTE:
1. Unless otherwise indicated Control Joints shall be provided at continuous Interior Walls or Partitions with uninterrupted planes that exceed 30'-0" in length or 900 sf in Area.
2. Unless otherwise indicated Control Joints shall be provided at continuous Interior Ceilings with uninterrupted planes exceeding 30' in length or 900 sf in Area.
3. Fire Resistive Conditions shall take precedence over Sound or Acoustical Wall Construction

J4 — GYPSUM BOARD, Metal Accessories, Control Joints, Fire Resistive Construction
3" = 1'-0"

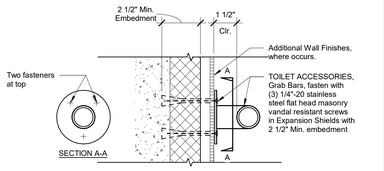


NOTE:
1. Details Shall apply at Similar GYPSUM BOARD Accessories and Trim not specifically shown.
2. Reveals and Moldings shall be provided with Factory Fabricated Intersections, Inside Corners, Outside Corners and End Caps

N7 — GYPSUM BOARD, Metal Accessories
6" = 1'-0"

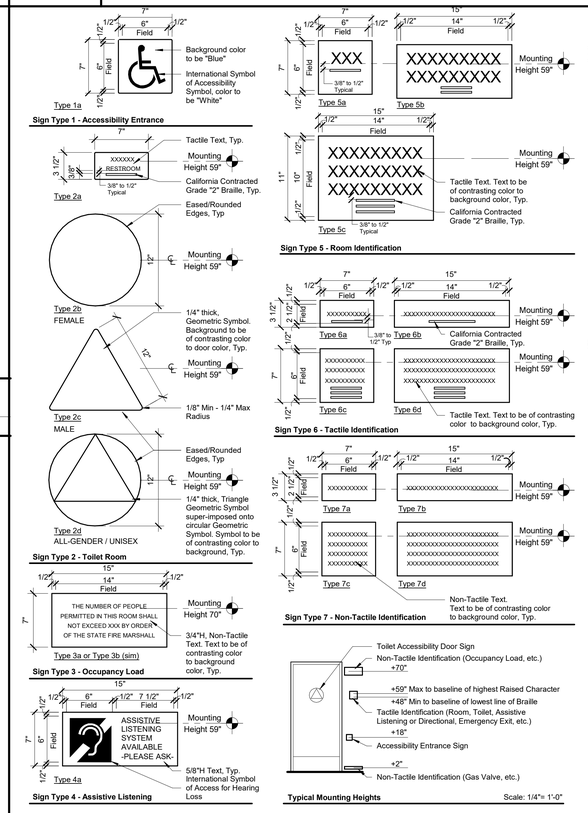


J7 — WALL COVERINGS, Vinyl Covered Tackboard
3" = 1'-0"

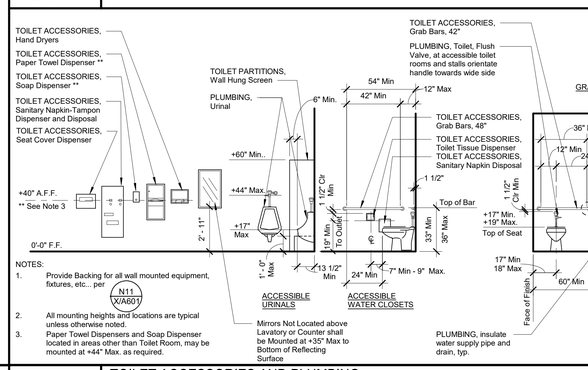


A7 — TOILET ACCESSORIES, Grab Bars
3" = 1'-0"

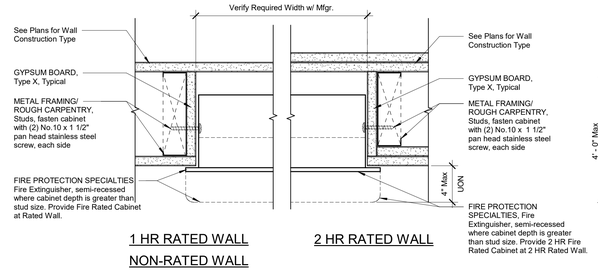
N11 — METAL FRAMING / ROUGH CARPENTRY , Backing Detail
1" = 1'-0"



E11 — IDENTIFYING DEVICES, Signage Locations and Dimensions
1 1/2" = 1'-0"

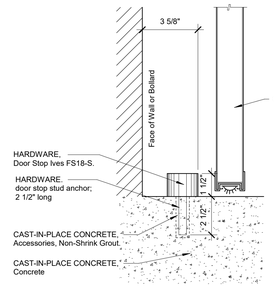


A11 — TOILET ACCESSORIES AND PLUMBING FIXTURES,
1/4" = 1'-0"



A1 — FIRE PROTECTION SPECIALITIES, Fire Extinguisher Cabinets
3" = 1'-0"

E4 — HARDWARE, Door Stop at Exterior & Interior
3" = 1'-0"



NOTES

1. GYPSUM BOARD, Metal Accessories, Refer to Detail N7/X601

N18 — Interior Detail Notes
No Scale

Child Nutrition Kitchen
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TYPICAL INFORMATION
INTERIOR DETAILS
Drawing

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Architect

No.	Revision/Submission	Date

Revision

	Designed	Designer	Copyright 2022 Darden Architects
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Project Number:	2310	Checked IChecker	
Date:	xx/xx/xx	ReviewedApprover	

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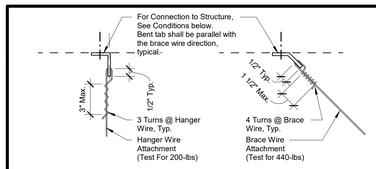
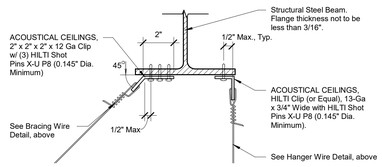


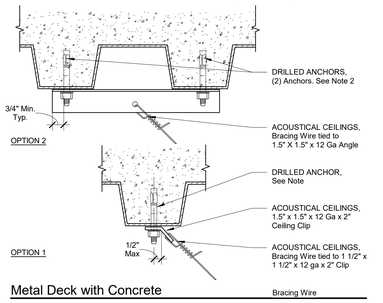
Hanger Wire - Typical

Bracing Wire - Typical



Structural Steel

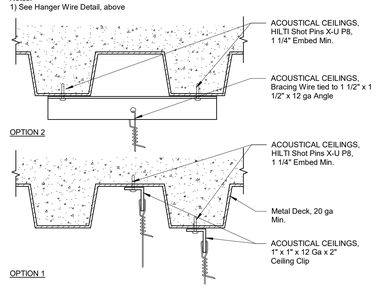
Notes:
1) See Bracing Wire Detail, above
2) DRILLED ANCHORS, Expansion Anchors. 3/8" Diameter Hilti KB-TZ22 with 2" min. embedment. See Structural General Notes for Post-Installed Anchors; ICC ESR reports and testing criteria.



Metal Deck with Concrete

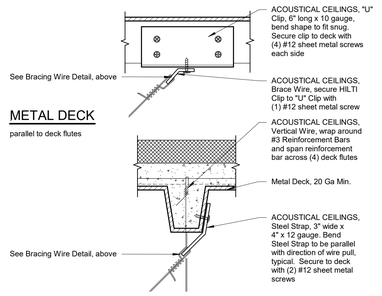
Bracing Wire

Notes:
1) See Hanger Wire Detail, above



Metal Deck with Concrete

Hanger Wire

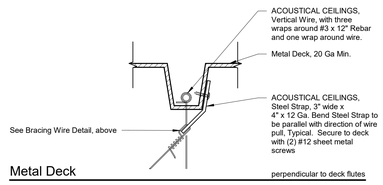


METAL DECK

parallel to deck flutes

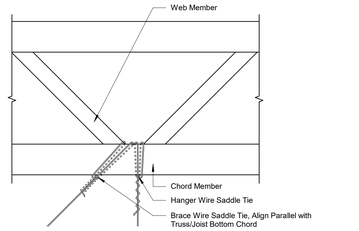
Metal Deck with Non-Structural Insulated Concrete

perpendicular to deck flutes

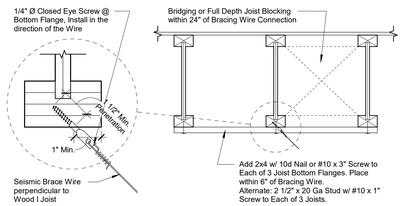


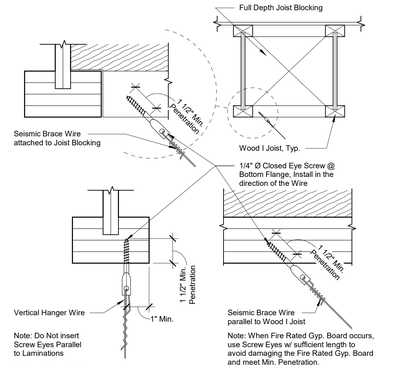
Metal Deck

perpendicular to deck flutes

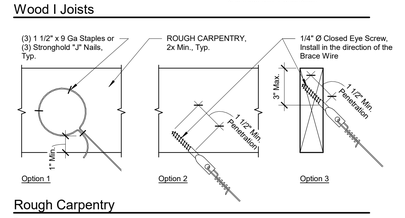


Wood Chord Truss and Open Web Steel Joist



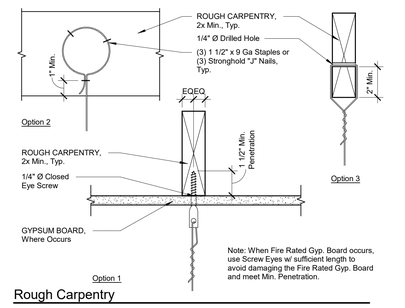


Wood I Joists



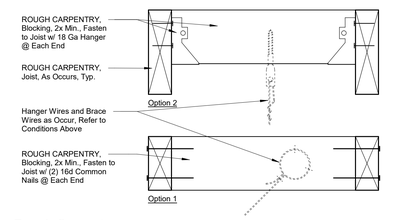
Rough Carpentry

Brace Wire



Rough Carpentry

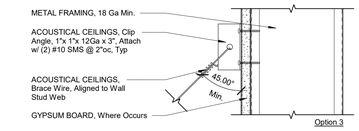
Hanger Wire

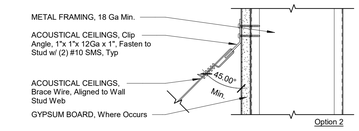


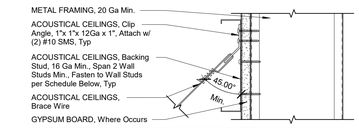
Rough Carpentry

Typical Min. Blocking for Wire Attachments, For Blocking Requirements refer to STRUCTURAL

A1	ACOUSTICAL CEILINGS, Suspension System, Hanger & Bracing (Splay) Wire Attachments
3" = 1'-0"	



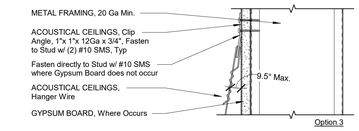


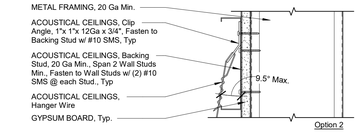


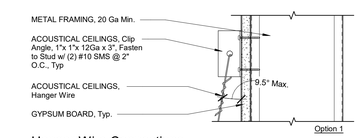
Wall Stud Gauge	Connection to Wall Stud (w/ Gyp. Board)	Connection to Wall Stud (w/out Gyp. Board)
20 Gauge	(5) #10 x 1 1/4" SMS	(3) #10 x 1 1/4" SMS
18 Gauge	(4) #10 x 1 1/4" SMS	(2) #10 x 1 1/4" SMS

Option 1

Brace Wire Connections





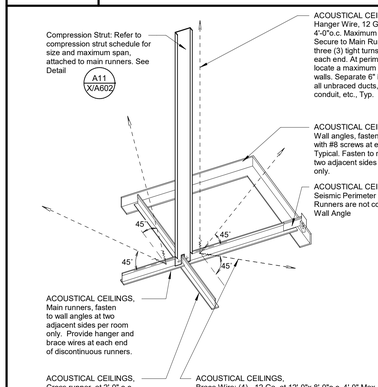


Hanger Wire Connections

ACOUSTICAL CEILINGS, Suspension System, See A7 X/A602

For Typical Wire Turns, See A1 X/A602

G7	ACOUSTICAL CEILINGS, Wire Connections to Metal Stud Wall Detail
3" = 1'-0"	

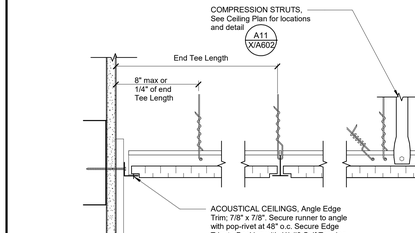


Notes:

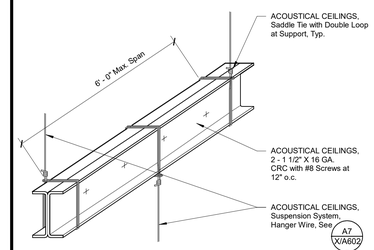
1. Splices in Slotted Wall Angles shall be with minimum 12" lap and fasten with (2) #8 screws at each flange.
2. FIRE RATED CEILINGS: Wire Brace and Compression Strut Assemblies are required for each 96 square feet and the first assembly shall be located maximum 4'-0" from each wall.
3. Refer to the 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 1617A.1.21, the design and installation to be in compliance with ASTM C635, C636, and E580, Section 5, as amended by 2019 CBC Section 1617A.1.21 .
5. For attachement of hanger and bracing wire to roof structure, See A1 X/A602 For attachement of hanger wire to adjacent wall, See G7 X/A602

Lay-In Tile Condition

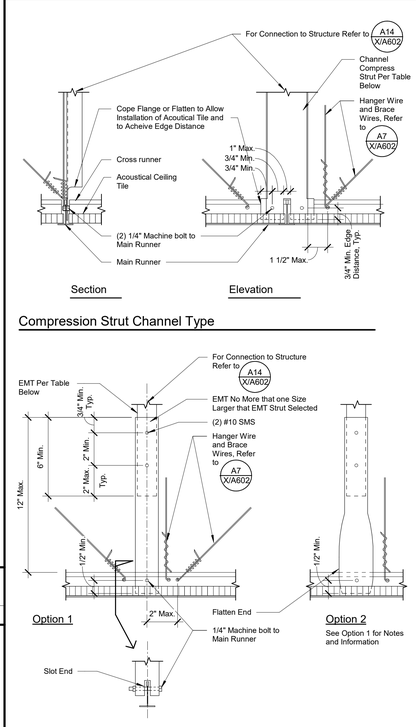
A7	ACOUSTICAL CEILINGS, Suspension System
3" = 1'-0"	



N11	ACOUSTICAL CEILINGS, Perimeter Ceiling Detail
3" = 1'-0"	



N18	ACOUSTICAL CEILINGS, Suspended Ceiling Trapeze Support
3" = 1'-0"	



Compression Strut Channel Type

Compression Strut EMT Type

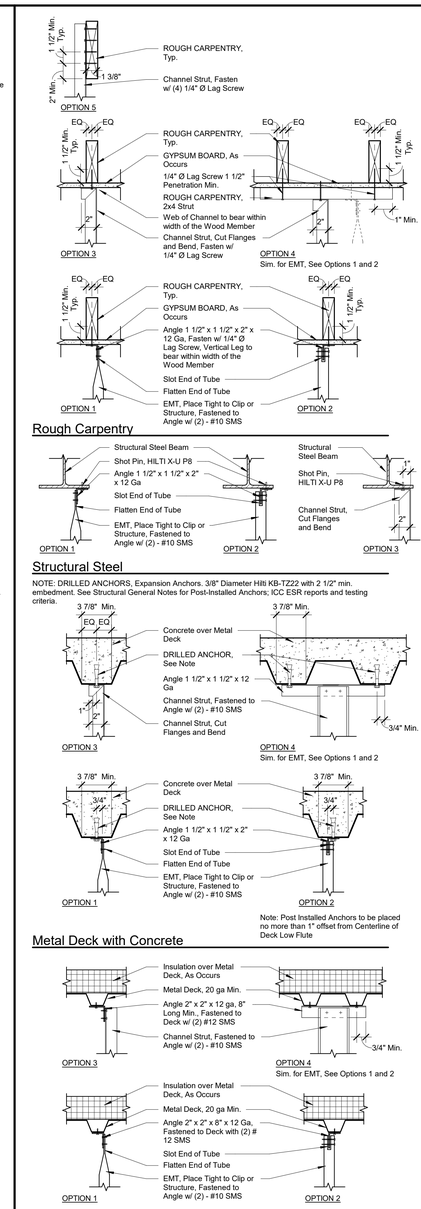
Electrical Metallic Tubing (EMT)	Max. Length
1/2" Diameter EMT (0.042" Wall Thickness)	3'-11"
3/4" Diameter EMT (0.049" Wall Thickness)	6'-4"
1" Diameter EMT (0.057" Wall Thickness)	9'-9"
1 1/4" Diameter EMT (0.065" Wall Thickness)	12'-9"
1 1/2" Diameter EMT (0.065" Wall Thickness)	14'-9"
2" Diameter EMT (0.065" Wall Thickness)	18'-10"
Channel Type Strut	
250S125-33	5'-0"
250S137-33	6'-10"
362S137-33	8'-0"
250S137-43	8'-10"
400S137-43	10'-10"

Notes:

1. This detail shall be used for ACOUSTICAL CEILINGS, Lay-In Tiles
2. The Strut Table comports with DSA IR 25-2.13, Sheet 3.21
3. Material Used Shall not be less than the Minimum Shown in the Above Tables.
4. Compression Strut and Bracing Wire conditions shall be located on a grid not exceeding 12'-0" x 12'-0". The "Datum" point for starting the strut/bracing grid shall be 6'-0" from one wall (half of 12'-0") and 6'-0"from an adjacent perpendicular wall (half of 12'-0").
5. The "Datum" point for starting the strut/bracing grid shall be 6'-0" from one wall (half of 12'-0") and 4'-0" from an adjacent perpendicular wall (half of 8'-0").
6. Compression Strut shall not replace the vertical Hanger Wires. See for Hanger and Bracing Wire information, detail A7 X/A602

Strut Schedule

A11	GYP. BD. & ACOUSTICAL CEILING SUSP. SYSTEM, COMP. STRUT SCHEDULE
3" = 1'-0"	



Rough Carpentry

Structural Steel

NOTE: DRILLED ANCHORS, Expansion Anchors. 3/8" Diameter Hilti KB-TZ22 with 2 1/2" min. embedment. See Structural General Notes for Post-Installed Anchors; ICC ESR reports and testing criteria.

Metal Deck with Concrete

Metal Deck

A14	ACOUSTICAL CEILINGS, Strut To Structure
1 1/2" = 1'-0"	

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637
Project

TYPICAL INFORMATION
INTERIOR DETAILS
Drawing

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ARCHITECTURE PLANNING INTERIORS
www.dardenarchitects.com
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LICENSED ARCHITECT MATTHEW R. REED No. C35878 Exp. 06-31-09 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

	Designed Designer	Copyright 2022 Darden Architects
Scale: As indicated	Drawn By: Author	X/A602
Project Number: 2310	Checked IChecker	
Date: xx/xx/xx	ReviewedApprover	

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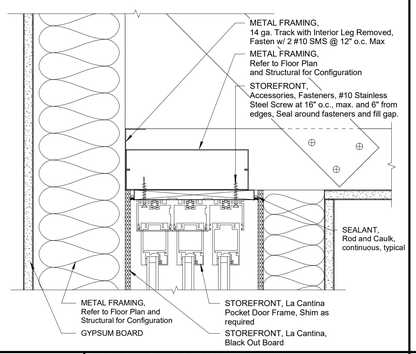
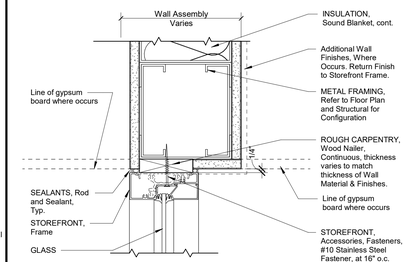


N1

3" = 1'-0"

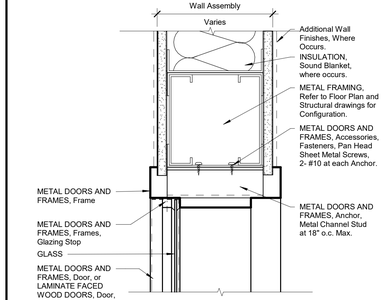
FOLDING DOOR SYSTEM,
Head Section A



N4

3" = 1'-0"

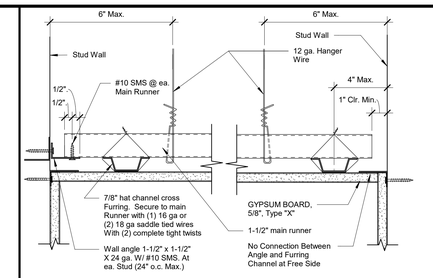
STOREFRONT, Head at Interior Window

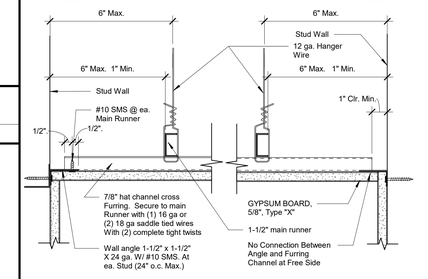


N7

3" = 1'-0"

METAL DOORS AND FRAMES, Head and Interior



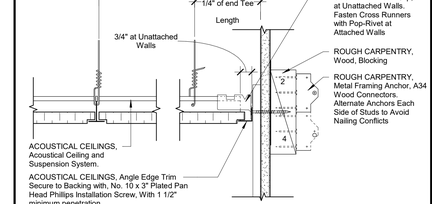


L11

3" = 1'-0"

GYPSUM BOARD,
Ceiling Edge Detail

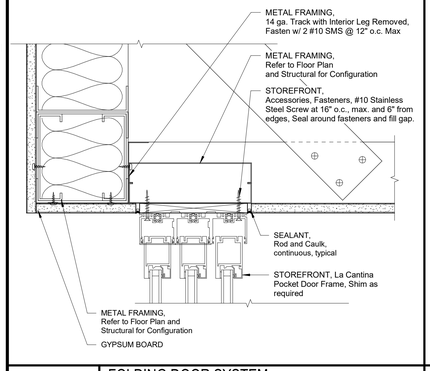
OSHPD, OPD, CG2.30



P14

3" = 1'-0"

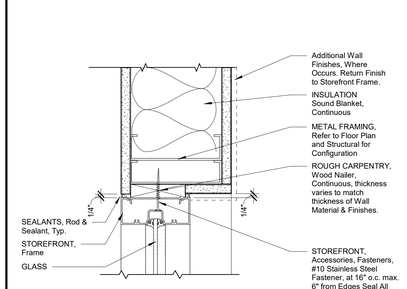
ACOUSTICAL CEILINGS,
Perimeter Ceiling Detail



J1

3" = 1'-0"

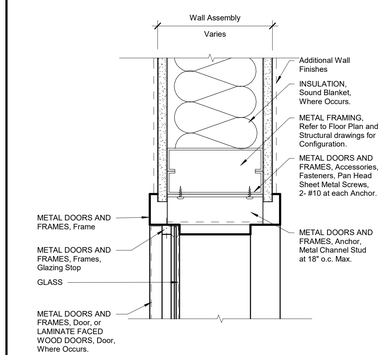
FOLDING DOOR SYSTEM,
Head Section B



J4

3" = 1'-0"

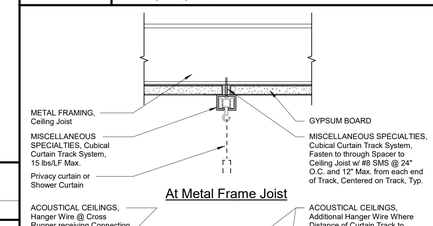
STOREFRONT, Jamb at Interior Window



J7

3" = 1'-0"

METAL DOORS AND FRAMES,
Jamb at Interior

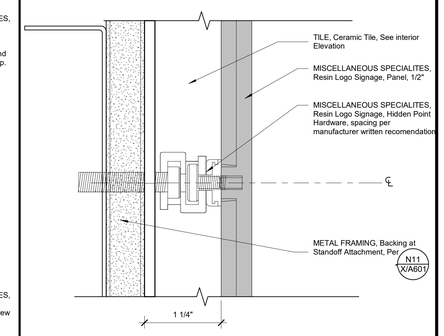


L11

3" = 1'-0"

GYPSUM BOARD,
Ceiling Edge Detail

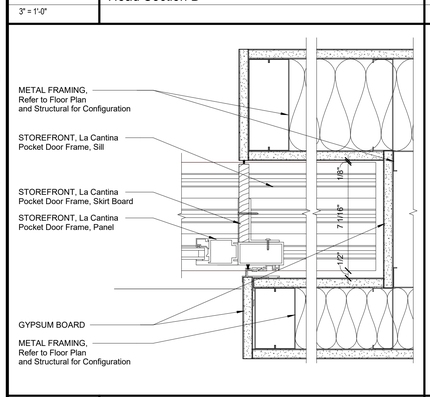
OSHPD, OPD, CG2.30



E14

1/2" = 1'-0"

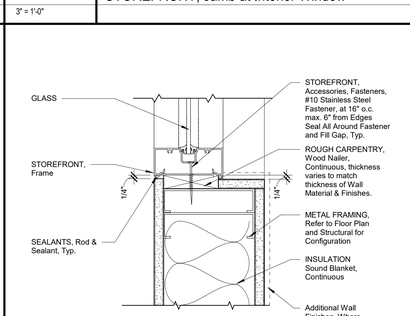
MISCELLANEOUS SPECIALTIES,
Resin Logo Signage, Attachment



E1

3" = 1'-0"

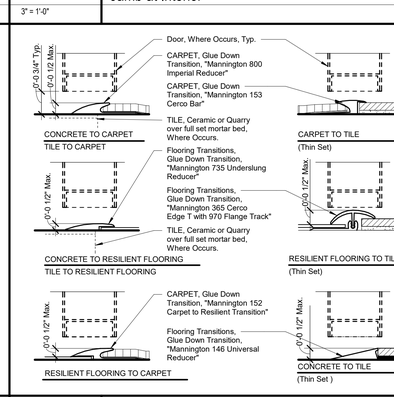
FOLDING DOOR SYSTEM,
Jamb Section



E4

3" = 1'-0"

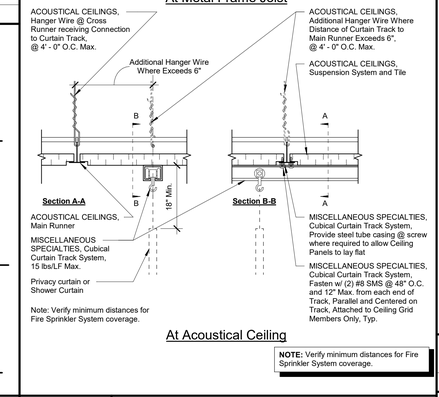
STOREFRONT, Sill at Interior Window



E7

3" = 1'-0"

Flooring Transitions, at Interior



E11

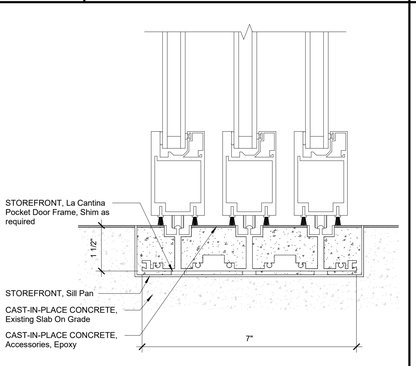
3" = 1'-0"

MISCELLANEOUS SPECIALTIES, Cubicle Curtain Track @ Ceiling

A14

3" = 1'-0"

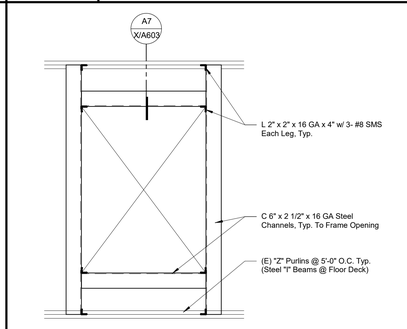
METAL FRAMING, 1 Hour Rated Wall at Metal Deck



A1

6" = 1'-0"

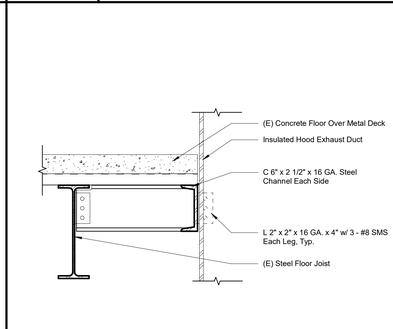
FOLDING DOOR SYSTEM,
Threshold Section



A4

1/2" = 1'-0"

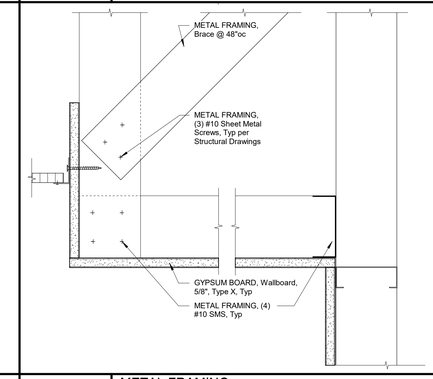
METAL FRAMING,
Mechanical Duct Opening Plan



A7

1 1/2" = 1'-0"

METAL FRAMING,
Mechanical Duct Floor Deck Opening



A11

3" = 1'-0"

METAL FRAMING,
Soffit Framing

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637

Project

INTERIOR DETAILS

Drawing

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Architect

No.	Revision/Submission	Date

Revision

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Scale: As indicated	Drawn By: Author	X/A603
Project Number: 2310	Checked IChecker	
Date: xx/xx/xx	Reviewed Approver	

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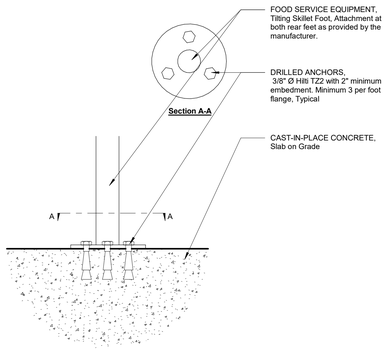
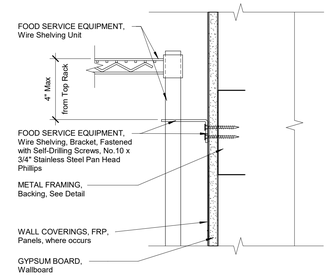


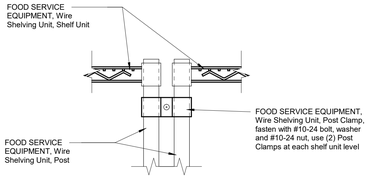
N7 — FOOD SERVICE EQUIPMENT, Tilting Skillet Foot Attachement

3" = 1'-0"



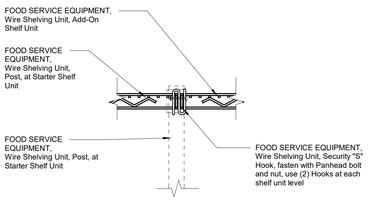
Wall Bracket

At Post to Wall Connection



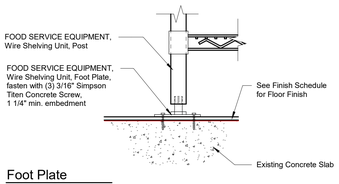
Post Clamps

At Post to Post Connection, where no wall to unit attachment is possible



Security "S" Hook

At Shelf to Shelf Connection



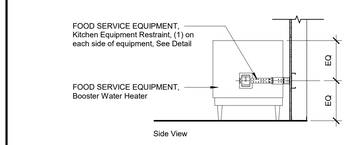
Foot Plate

At Non-Wall Bracketed Locations

Note:
Refere to the west interior elevation at Room 10- Dry Storage, Sheet B/A601 for typical Secutity connection layout

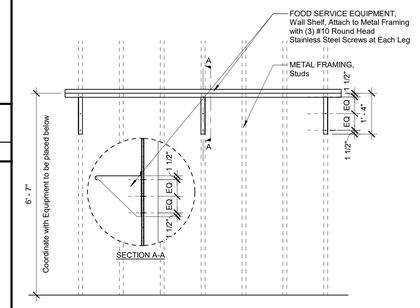
A7 — FOOD SERVICE EQUIPMENT, Wire Shelving Unit, Security Connectors

3" = 1'-0"



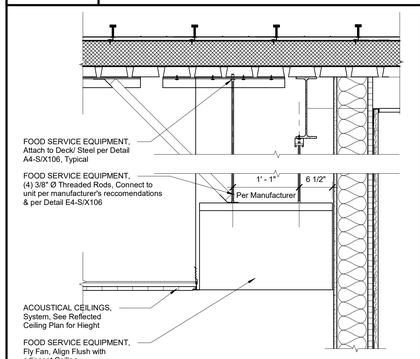
P11 — FOOD SERVICE EQUIPMENT, Kitchen Equipment Restraint Elevation

1/2" = 1'-0"



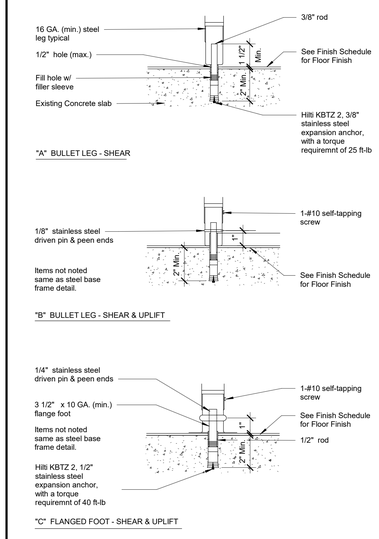
L11 — FOOD SERVICE EQUIPMENT, Wall Shelf Attachment

1/2" = 1'-0"



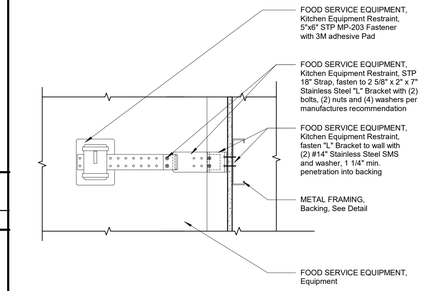
G11 — FOOD SERVICE EQUIPMENT, Fly Fan Attachment

1" = 1'-0"



A11 — FOOD SERVICE EQUIPMENT, Guidelines for Seismic Restraint

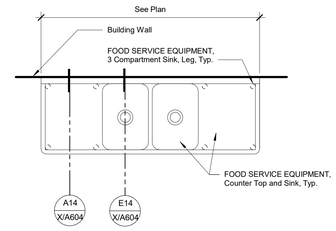
3" = 1'-0"



NOTE: at Full size Self Cooking Center provide (2) STP MP-203 per side.

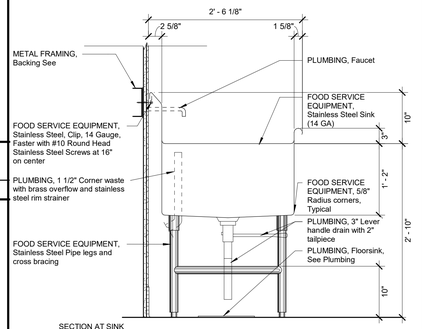
N14 — FOOD SERVICE EQUIPMENT, Kitchen Equipment Restraint

1 1/2" = 1'-0"



J14 — FOOD SERVICE EQUIPMENT, 3 Compartment Dish Sink

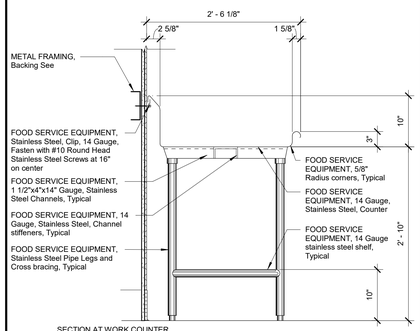
1/2" = 1'-0"



SECTION AT SINK

E14 — FOOD SERVICE EQUIPMENT, Three Compartment Sink

1" = 1'-0"



SECTION AT WORK COUNTER

A14 — FOOD SERVICE EQUIPMENT, Three Compartment Sink

1" = 1'-0" — Similar at Dish Washing

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637

Project

KITCHEN EQUIPMENT DETAILS

Drawing

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LICENSED ARCHITECT — MATTHEW R. DARDEN — No. C35878 — Exp. 06-31-09 — STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed Designer — Copyright 2022 Darden Architects
Scale: As indicated — Drawn By: Author
Project Number: 2310 — Checked tChecker
Date: xx/xx/xx — ReviewedApprover

X/A604

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SYMBOLS

- Existing Wall
- Remove Existing Wall
- Remove Existing Building Item (See Demolition Note, Plumbing, Mechanical, and Electrical Drawings)
- Room name 101 — Room Designation
- 01 — Demolition Note Symbol
- Area not within the architectural scope of the Project.

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.
10. Contractor to field verify all dimensions and existing floor and wall finishes prior to the commencement of work.
11. Refer to Hazerdous Materials Report prior to the commencment of work.

DEMOLITION NOTES

- 01 SELECTIVE DEMOLITION, Remove wall or portion of wall, Refer to floor plan for extent
- 02 SELECTIVE DEMOLITION, Remove Door and Frame
- 03 SELECTIVE DEMOLITION, Remove Window and Frame
- 04 SELECTIVE DEMOLITION, Remove Casework
- 05 SELECTIVE DEMOLITION, Remove Flooring and base
- 06 SELECTIVE DEMOLITION, Remove Floor and framing
- 07 SELECTIVE DEMOLITION, Remove Stairs and framing
- 08 SELECTIVE DEMOLITION, Remove Plumbing. See PLUMBING for more information
- 09 SELECTIVE DEMOLITION, Remove and Reinstall equipment
- 10 SELECTIVE DEMOLITION, Remove and Reinstall Microwave
- 11 SELECTIVE DEMOLITION, Sawcut Existing Concrete as required for new Improvements, Typical

Child Nutrition Kitchen
Madera Unified School District
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Project

DEMOLITION FLOOR PLAN
Drawing

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LICENSED ARCHITECT MATTHEW R. REED No. C35878 Exp. 05-31-09 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

	Designed Designer	Copyright 2022 Darden Architects
Scale: 1/8" = 1'-0"	Drawn By: Author	A/A100
Project Number: 2310	Checked tChecker	
Date: xx/xx/xx	ReviewevApprover	

A1
1/8" = 1'-0"
Demolition Floor Plan

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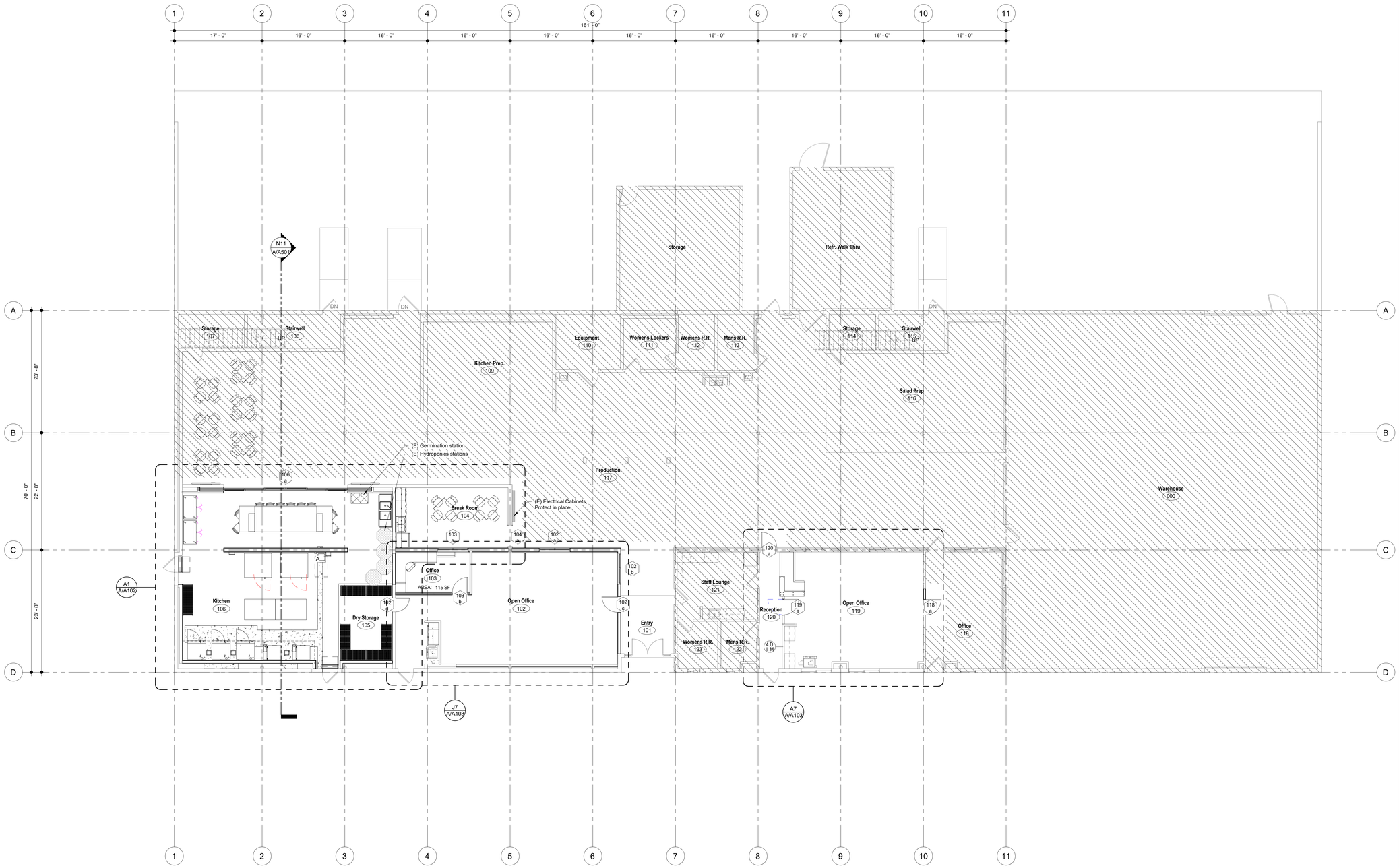

SYMBOLS

- Concrete Masonry Unit Wall. 8" wide unless otherwise noted.
- Concrete Wall, or Column. Size as indicated.
- 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.
- CAST-IN-PLACE CONCRETE, 4" Concrete Walk over 6" 90% Compacted Fill.
- 1 Hr. Corridor Wall - Fire Partition (1 Hr. Fire Resistive Construction, 20 Min. Door Assemblies, 45 Min. Window Assemblies)
- 1 Hr. Fire Barrier - (1 Hr. Fire Resistive Construction, 60 Min. Door Assemblies)
- 1 Hr. Occupancy Separation / Fire Barrier - (1 Hr. Fire Resistive Construction, 45 Min. Door Assemblies, 45 Min. Window Assemblies)
- 2 Hr. Fire Wall (2 Hr. Fire Resistive Construction, 1-1/2 Hr. Door Assemblies)
- 2 Hr. Fire Barrier (2 Hr. Fire Resistive Construction, 1-1/2 Hr. Door Assemblies)
- 0 — Reference Grid
- 101 / a — Opening Group No. Refer to Door or Window Opening Schedules
- Eq Mark — Equipment Item No. Refer to Equipment Schedule
- Room name / 101 — Room Designation
- # # / # — Wall Assembly Symbols. Refer to Sheet X/A101
- Reference Point

ABBREVIATIONS

FEBC FIRE PROTECTION SPECIALTIES, Fire Extinguisher/Blanket Cabinet, Type FEBC-1, 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, See A1 / X/A601

FEC FIRE PROTECTION SPECIALTIES, Fire Extinguisher Cabinet, Type FEC-1, Unless Noted Otherwise. Provide Fire Rated Cabinet at Rated Walls, See A1 / X/A601

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
VCT	RESILIENT FLOORING, Vinyl Composition Tile
Typ.	Typical
Sim.	Similar
OH	Opposite Hand

NOTES

1. All Exterior Walls shall be Wall Assembly Type 6.B / E.M Unless Noted Otherwise.
2. All Interior Walls shall be Wall Assembly Type 6.B / I.M 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.
6. Floor Drains (FD) and Floor Sinks (FS) shall be set -3/4" and a min. of 3'-0" from nearest wall, Unless Noted Otherwise.
7. IDENTIFYING DEVICES, For Room Signage refer E11 / X/A601 to and Specifications
8. FIRE RESISTIVE ASSEMBLIES:
   a. All Through Penetrations and Wall Membrane Penetrations through Walls of Fire Resistive Construction shall be protected in accordance with their Fire Resistive Ratings.

   b. All Walls of Fire and/or Smoke Resistive Construction Shall Be Permanently Identified with Signs or Stenciling in lettering not less than 3 inches (76 mm) in. height with a minimum 3/8 inch (9.5 mm) stroke in a contrasting color incorporating the following wording: FIRE AND/OR SMOKE BARRIER "#" HOUR RATED. PROTECT ALL OPENINGS, Signs or Stenciling shall be located above ceilings on both sides of the wall, located 15'-0" from ends of wall and at intervals not to exceed 30'-0" horizontally along the wall or partition. Note: "#" indicates the hourly rating of the wall or partition.

G18 — Floor Plan Legend

No Scale

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637
Project

FLOOR PLAN
Drawing

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LICENSED ARCHITECT MATTHEW R. REISS No. C35878 Exp. 05-31-08 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

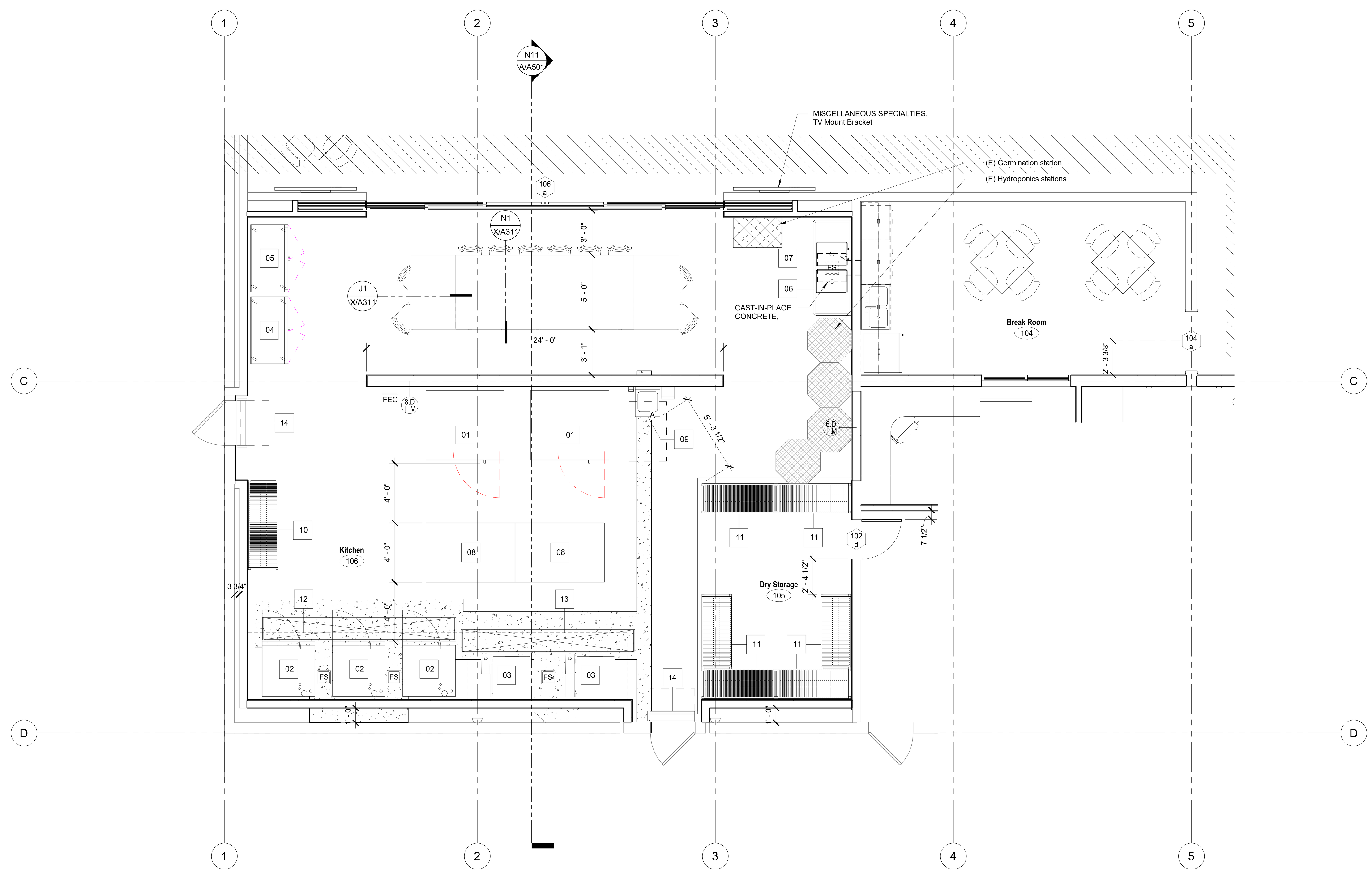
Revision

	Designed Designer	
Scale: 1/8" = 1'-0"	Drawn By: Author	A/A101
Project Number: 2310	Checked Checker	
Date: xx/xx/xx	Reviewed Approver	

A1 — FLOOR PLAN - OPTION 1
1/8" = 1'-0"
Refer to F18 for Legend Symbols, Abbreviations and Notes

Equipment Schedule

Eq Mark	Description	Manufacturer	Model	Quantity	CFCI	OFCI	OFOI	OFVI	New	Relocate	Equip-Location	Depth	Width	Height	Weight	ELECTRICAL: Volts	ELECTRICAL: Load	ELECTRICAL: HP	ELECTRICAL: Phase	ELECTRICAL: Conn	WASTE: Waste Conn	WASTE: Waste Size	WATER: Water Cold	WATER: Water Hot	WATER: Water Stub Ht	Detail Ref	Remarks
01	Roll In Blast Chiller and Shock Freezer	Irinox North America	MF 250.2	2	X	-	-	-	X	-		4' - 8 1/8"	5' - 3"	7' - 10 5/16"	1345	208 V	2787.20 W		3								
02	Combination Steamer & Convection Oven	RATIONAL AG	iCombi Pro 20-full size E	3	-	X	-	-	X	-		3' - 8"	3' - 6 5/8"	6' - 1 3/4"	842	208 V / 240 V	67.9 kW		3								
03	Combination Steamer & Convection Oven	RATIONAL AG	iVario Pro L	2	-	X	-	-	X	-		2' - 11 3/16"	3' - 4 9/16"	1' - 11 15/16"	425	208 V	23000 W		3								
04	Reach-In Freezer	TRUE	T-49FG-HC~FGD01	1	-	X	-	-	X	-		2' - 5 13/16"	4' - 6 5/32"	6' - 11 3/8"	605	115 V	1265 W	.5	1	NEMA-5-20P							
05	Reach-In Refrigerator	TRUE	T-49G-4-HC~FGD01	1	-	X	-	-	X	-		2' - 5 13/16"	4' - 6 5/32"	6' - 11 3/8"	605	115 V	621 W	.5	1	NEMA 5-15P							
06	Food Prep 2 Compartment Sink	Advanced Tabco	94-62-36-18RL	1	X	-	-	-	X	-		2' - 7"	6' - 5"	3' - 1"	206	-	-	-	-	-	-	-	-	-	-	X#-X/A###	-
07	Kitchen Faucet	Chicago	4445-DJ13	1	X	-	-	-	X	-		10"	10"	5"	4.25	-	-	-	-	-	-	-	X	X	-	X#-X/A###	-
08	Stainless Steel Work Counter	Advance Tabco	MS-366	2	X	-	-	-	X	-		4' - 0"	6' - 0"	2' - 11 1/2"	138	-	-	-	-	-							
09	Hand Sink	Advanced Tabco	7-PS-46	1	X	-	-	-	X	-		2' - 0"	1' - 8"	3' - 1"	65	-	-	-	-	-	-	-	-	-	-	X#-X/A###	-
10	Camshelving with Vented Shelves	CAMBRO	CPU244872V4480	1	-	X	-	-	X	-		2' - 0"	4' - 0"	6' - 0"	102.5	-	-	-	-	-							
11	Camshelving with Vented Shelves	CAMBRO	CPU246072V4480	6	-	X	-	-	X	-		2' - 0"	5' - 0"	6' - 0"	118.6	-	-	-	-	-							
12	Grease Hood	Grease Master	6024 GSN-2-PSP-F	1	X	-	-	-	X	-		6' - 2"	11' - 0"	2' - 0"	663												
13	Grease Hood	Grease Master	6024 GSN-2-PSP-F	1	X	-	-	-	X	-		6' - 2"	14' - 10"	2' - 0"	804												
14	Fly Fan	Mars Air	Unheated LPV2	2	X	-	-	-	X	-		8 7/8"	3' - 0"	8"	32	208 V	-	.17	3	-							



A1 KITCHEN EQUIPMENT PLAN - OPTION 1

1/4" = 1'-0"

SYMBOLS

Concrete Masonry Unit Wall. 8" wide unless otherwise noted.

Concrete Wall, or Column. Size as indicated.

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.

CAST-IN-PLACE CONCRETE, 4" Concrete Walk over 6" 90% Compacted Fill.

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

1 Hr. Fire Barrier - (1 Hr. Fire Resistive Construction, 60 Min. Door Assemblies)

1 Hr. Occupancy Separation / Fire Barrier - (1 Hr. Fire Resistive Construction, 45 Min. Door Assemblies, 45 Min. Window Assemblies)

2 Hr. Fire Wall (2 Hr. Fire Resistive Construction, 1-1/2 Hr. Door Assemblies)

2 Hr. Fire Barrier (2 Hr. Fire Resistive Construction, 1-1/2 Hr. Door Assemblies)

0 — Reference Grid

101 a — Opening Group No. Refer to Door or Window Opening Schedules

Eq Mark — Equipment Item No. Refer to Equipment Schedule

Room name 101 — Room Designation

#.# -.# — Wall Assembly Symbols. Refer to Sheet X/A101

Reference Point

ABBREVIATIONS

- FEBC — FIRE PROTECTION SPECIALTIES, Fire Extinguisher/Blanket Cabinet, Type FEBC-1, 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, See A1 X/A601
- FEC — FIRE PROTECTION SPECIALTIES, Fire Extinguisher Cabinet, Type FEC-1, Unless Noted Otherwise. Provide Fire Rated Cabinet at Rated Walls, See A1 X/A601
- 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
- VCT — RESILIENT FLOORING, Vinyl Composition Tile
- Typ. — Typical
- Sim. — Similar
- OH — Opposite Hand

NOTES

1. All Exterior Walls shall be Wall Assembly Type 6.B' E.M Unless Noted Otherwise.
2. All Interior Walls shall be Wall Assembly Type 6.B I.M 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.
6. Floor Drains (FD) and Floor Sinks (FS) shall be set -3/4" and a min. of 3'-0" from nearest wall, Unless Noted Otherwise.
7. IDENTIFYING DEVICES, For Room Signage refer E11 X/A601 to and Specifications
8. FIRE RESISTIVE ASSEMBLIES:
   a. All Through Penetrations and Wall Membrane Penetrations through Walls of Fire Resistive Construction shall be protected in accordance with their Fire Resistive Ratings.

   b. All Walls of Fire and/or Smoke Resistive Construction Shall Be Permanently Identified with Signs or Stenciling in lettering not less than 3 inches (76 mm) in. height with a minimum 3/8 inch (9.5 mm) stroke in a contrasting color incorporating the following wording: FIRE AND/OR SMOKE BARRIER "#" HOUR RATED, PROTECT ALL OPENINGS, Signs or Stenciling shall be located above ceilings on both sides of the wall, located 15'-0" from ends of wall and at intervals not to exceed 30'-0" horizontally along the wall or partition. Note: "#" indicates the hourly rating of the wall or partition.

G18 Floor Plan Legend

No Scale

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637

Project

KITCHEN EQUIPMENT PLAN

Drawing

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LICENSED ARCHITECT MATTHEW A. HEISS No. C35878 Ren. 05-31-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed: Designer	
Scale: As indicated	Drawn By: Author	A/A102
Project Number: 2310	Checked By: Checker	
Date: xx/xx/xx	Reviewer: Approver	

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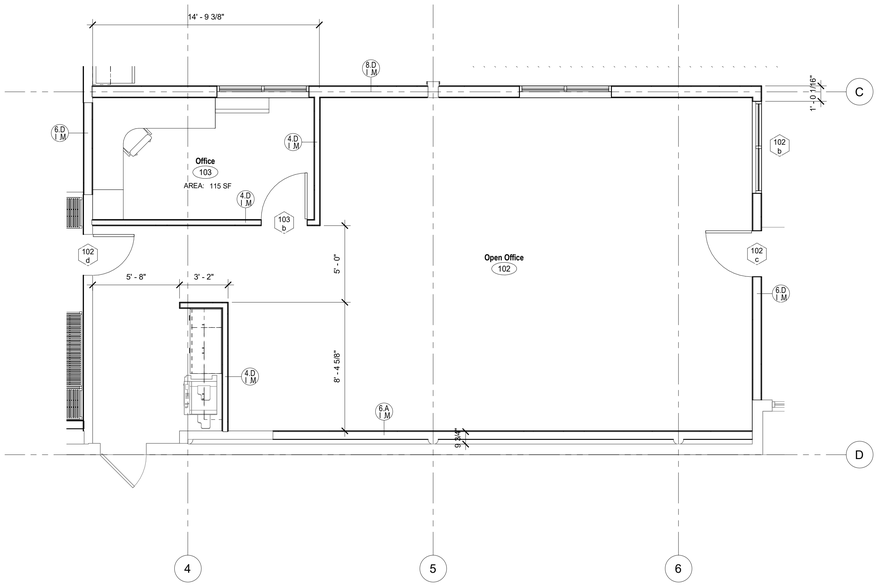
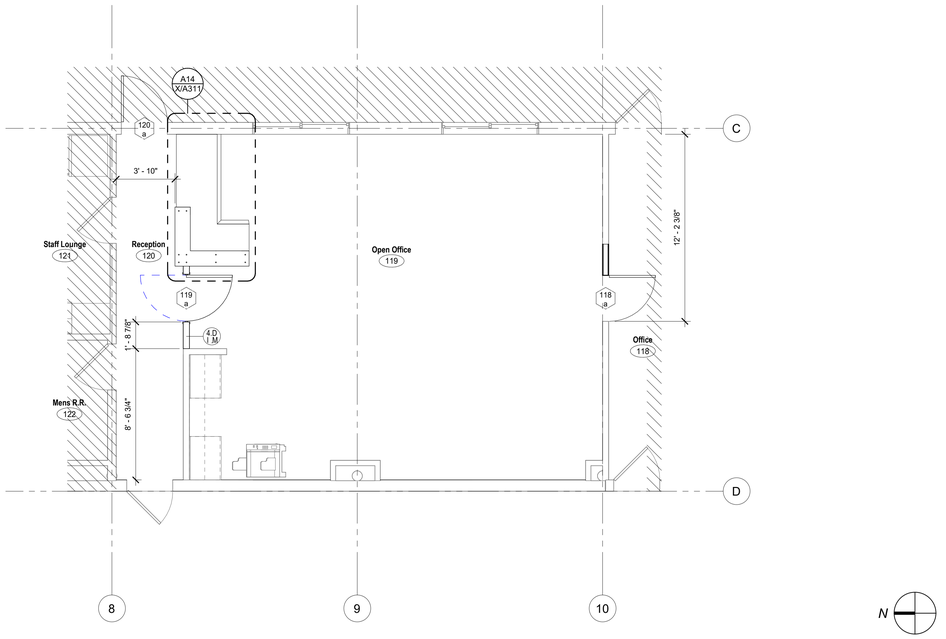


J7
1/4" = 1'-0"

ENLARGED PLAN - KITCHEN OFFICE



A7
1/4" = 1'-0"

ENLARGED PLAN - ADMIN OFFICE

SYMBOLS

- Concrete Masonry Unit Wall. 8" wide unless otherwise noted.
- Concrete Wall, or Column. Size as indicated.
- 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.
- CAST-IN-PLACE CONCRETE, 4" Concrete Walk over 6" 90% Compacted Fill.
- 1 Hr. Corridor Wall - Fire Partition (1 Hr. Fire Resistive Construction, 20 Min. Door Assemblies, 45 Min. Window Assemblies)
- 1 Hr. Fire Barrier - (1 Hr. Fire Resistive Construction, 60 Min. Door Assemblies)
- 1 Hr. Occupancy Separation / Fire Barrier - (1 Hr. Fire Resistive Construction, 45 Min. Door Assemblies, 45 Min. Window Assemblies)
- 2 Hr. Fire Wall (2 Hr. Fire Resistive Construction, 1-1/2 Hr. Door Assemblies)
- 2 Hr. Fire Barrier (2 Hr. Fire Resistive Construction, 1-1/2 Hr. Door Assemblies)
- 0 — Reference Grid
- 101 / a — Opening Group No. Refer to Door or Window Opening Schedules
- Eq Mark — Equipment Item No. Refer to Equipment Schedule
- Room name 101 — Room Designation
- ## / # — Wall Assembly Symbols. Refer to Sheet X/A101
- Reference Point

ABBREVIATIONS

FEBC	FIRE PROTECTION SPECIALTIES, Fire Extinguisher/Blanket Cabinet, Type FEBC-1, 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, See A1 / X/A601
FEC	FIRE PROTECTION SPECIALTIES, Fire Extinguisher Cabinet, Type FEC-1, Unless Noted Otherwise. Provide Fire Rated Cabinet at Rated Walls, See A1 / X/A601
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
VCT	RESILIENT FLOORING, Vinyl Composition Tile
Typ.	Typical
Sim.	Similar
OH	Opposite Hand

NOTES

1. All Exterior Walls shall be Wall Assembly Type 6.B* / E,M Unless Noted Otherwise.
2. All Interior Walls shall be Wall Assembly Type 6.B / I,M 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.
6. Floor Drains (FD) and Floor Sinks (FS) shall be set -3/4" and a min. of 3'-0" from nearest wall, Unless Noted Otherwise.
7. IDENTIFYING DEVICES, For Room Signage refer E11 / X/A601 to and Specifications
8. FIRE RESISTIVE ASSEMBLIES:
   a. All Through Penetrations and Wall Membrane Penetrations through Walls of Fire Resistive Construction shall be protected in accordance with their Fire Resistive Ratings.

   b. All Walls of Fire and/or Smoke Resistive Construction Shall Be Permanently Identified with Signs or Stenciling in lettering not less than 3 inches (76 mm) in. height with a minimum 3/8 inch (9.5 mm) stroke in a contrasting color incorporating the following wording: FIRE AND/OR SMOKE BARRIER "#" HOUR RATED. PROTECT ALL OPENINGS, Signs or Stenciling shall be located above ceilings on both sides of the wall, located 15'-0" from ends of wall and at intervals not to exceed 30'-0" horizontally along the wall or partition. Note: "#" indicates the hourly rating of the wall or partition.

G18
No Scale

Floor Plan Legend

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637
Project

ENLARGED OFFICE PLANS
Drawing

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LICENSED ARCHITECT MATTHEW R. REED No. C35878 Exp. 06-31-09 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

Designed Designer

Scale: As indicated
Drawn By: Author
Project Number: 2310
Checked fChecker
Date: xx/xx/xx
ReviewevApprover

A/A103

SYMBOLS

- Existing Wall
- Remove Existing Wall
- Remove Existing Building Item (See Demolition Note, Plumbing, Mechanical, and Electrical Drawings)
- Room name 101 — Room Designation
- 01 — Demolition Note Symbol
- Demolished ACT, see keynotes
- Area not within the architectural scope of the Project.

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.
10. Coordinate demolition with MECHANICAL AND ELECTRICAL.

DEMOLITION NOTES

- 01 SELECTIVE DEMOLITION, Remove Light Fixture, Refer to Electrical Drawings
- 02 SELECTIVE DEMOLITION, Remove HVAC Grilles, Refer to Mechanical
- 03 SELECTIVE DEMOLITION, Remove Suspended Ceiling System and Accessories
- 04 SELECTIVE DEMOLITION, Remove Gypsum board ceiling system and accessories
- 05 SELECTIVE DEMOLITION, Remove Suspended Ceiling System and Accessories, Salvage For Re-Use

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637
Project

DEMOLITION REFLECTED CEILING PLAN
Drawing

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A1
1/8" = 1'-0"
Demolition Reflected Ceiling Plan

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SYMBOLS

- MECHANICAL, Air Supply Grill
- MECHANICAL, Air Return Grill
- MECHANICAL, Strip Grill
- MECHANICAL, Exhaust Fan
- FIRE PROTECTION, Fire Sprinkler Head
- OD — PLUMBING, Overflow Drain
- ACOUSTICAL CEILINGS, Suspended Ceiling Compression Strut/ Splay Wire location
- (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
- C — ELECTRICAL, Camera
- CEMENT PLASTER, Cement Plaster System
- GYPSUM BOARD, Refer to Interior Finish Schedule
- ACOUSTICAL CEILINGS, Refer to Plan for Type.
- ACOUSTICAL CEILINGS, Refer to Plan for Type.
- Metal Deck
- PLUMBING, Roof Drain, Refer to Plumbing.
- ACCESS DOORS AND FRAMES, Access Doors, Ceiling (20" X 30"), UNO
- 1 Hr. Corridor Wall - (1 Hr. Fire Resistive Construction, 20 Min. Door Assembles, 45 Min. Window Assemblies)
- 1 Hr. Fire Barrier - (1 Hr. Fire Resistive Construction, 60 Min. Door Assembles)
- 1 Hr. Occupancy Separation / Fire Partition - (1 Hr. Fire Resistive Construction, 45 Min. Door Assemblies, 45 Min. Window Assemblies)
- 2 Hr. Fire Wall (2 Hr. Fire Resistive Construction, 1-1/2 Hr. Opening Assemblies)
- 2 Hr. Fire Barrier (2 Hr. Fire Resistive Construction, 1-1/2 Hr. Opening Assemblies)
- 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.
GLB	GLUE-LAMINATED CONSTRUCTION, Beam
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 A7 X/A602
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. Where Fire Sprinklers occur at Acoustic Tile, Sprinkler Heads shall be centered in the Tile.
5. Not all fire Sprinkler Head locations are shown to provide code required coverage. But locations shown are intended to convey design intent. Coordinate with FIRE PROTECTION.
6. See Structural for framing of soffits and ceilings
7. Single Lights or Single Rows of Lights at Soffits/ Ceilings shall be centered, UNO.

F18 — Reflected Ceiling Legend

No Scale

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637
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REFLECTED CEILING PLAN
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A1 — Reflected Ceiling Plan

1/8" = 1'-0"

Refer to F18 for Legend Symbols, Abbreviations and Notes

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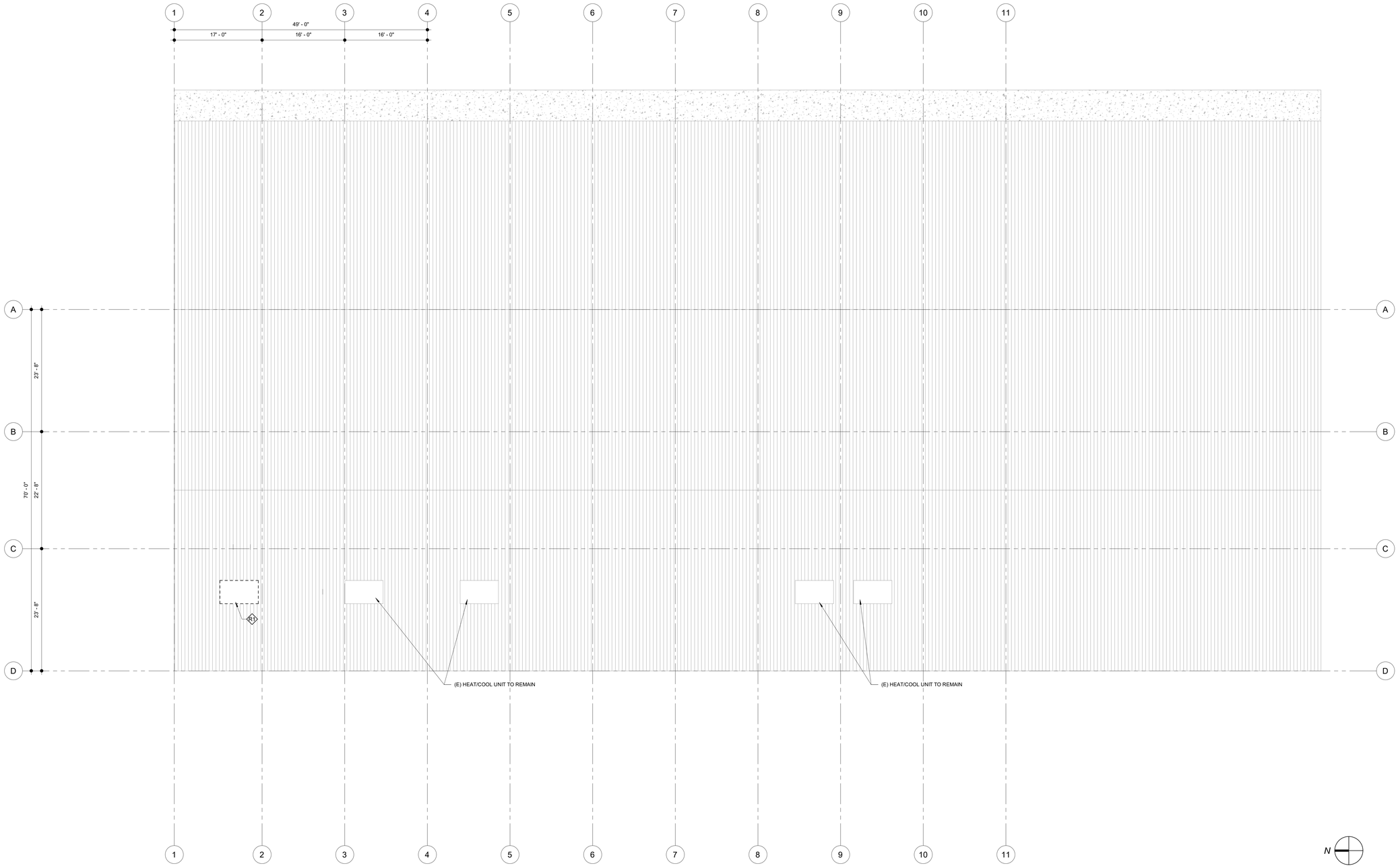

SYMBOLS

Remove Existing Building Item
(See Demolition Note, Plumbing, Mechanical, and Electrical Drawings)

D1 Demolition Note Symbol

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
TOS	Top of Steel
Sim.	Similar
Typ.	Typical

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.
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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.
8. Coordinate demolition with MECHANICAL AND ELECTRICAL.

DEMOLITION NOTES

R1 SELECTIVE DEMOLITION,
Remove And Protect Existing Heat/Col Unit for Relocation, See Mechanical

G18 — Roof Plan Legend
No Scale

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Madera Unified School District
769 S. Pine St. Madera, CA 93637
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DEMOLITION ROOF PLAN
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	Designed Designer	
Scale: 1/8" = 1'-0"	Drawn By: Author	A/A300
Project Number: 2310	Checked IChecker	
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A1 — Demolition Roof Plan
1/8" = 1'-0"

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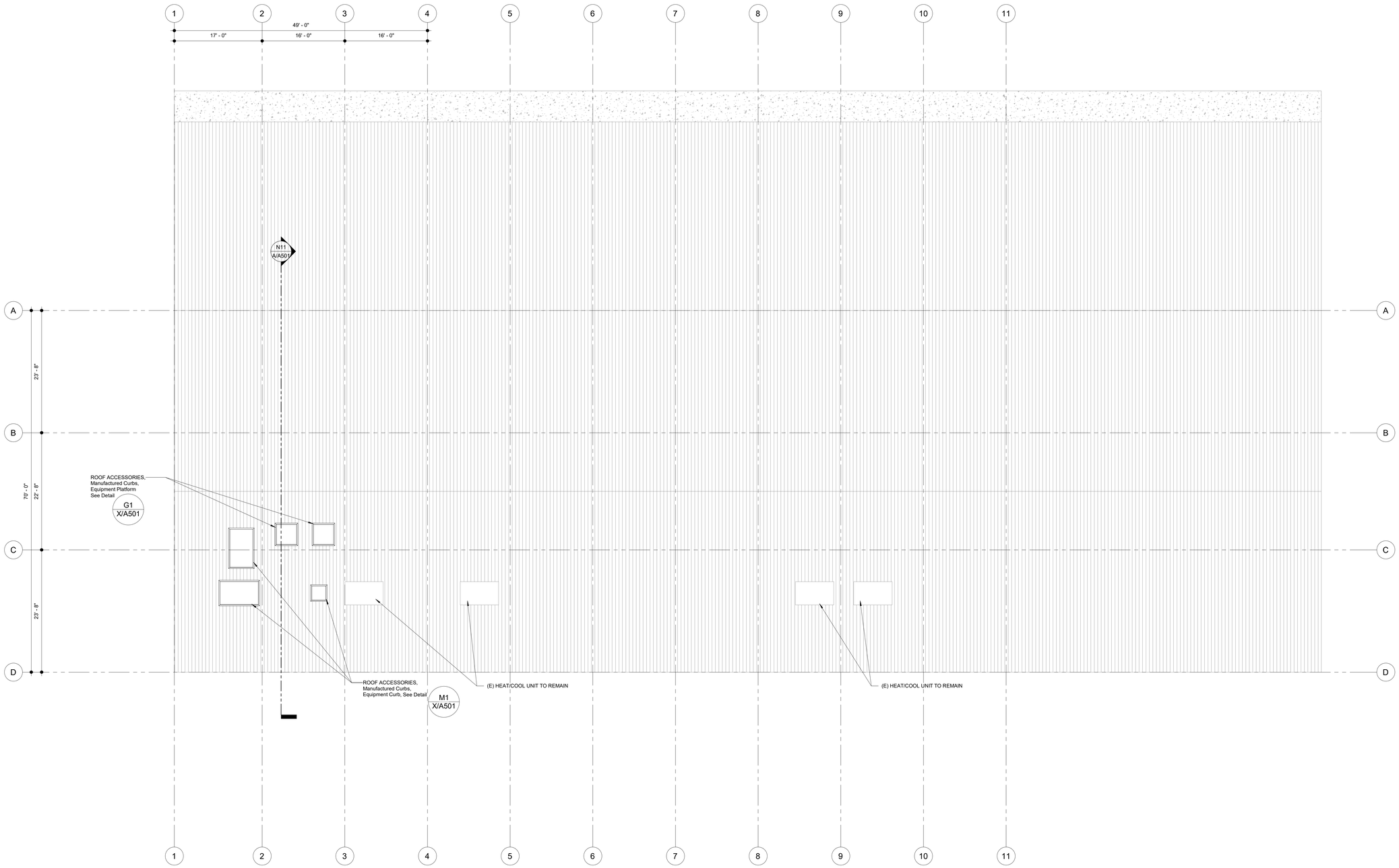

SYMBOLS

- PLUMBING, Roof Drain and Overflow
- 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
- LOUVERS

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
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 Unless Otherwise Noted. Details are Roof Deck Dependent
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.
4. SHEET METAL, Counter Flashing Boots shall be installed at all intersecting parapets that have different parapet heights. for conditions requiring such boots, refer to Details A14 2X/A501, E14 2X/A501, J14 2X/A501, N14 2X/A501

G18 — Roof Plan Legend
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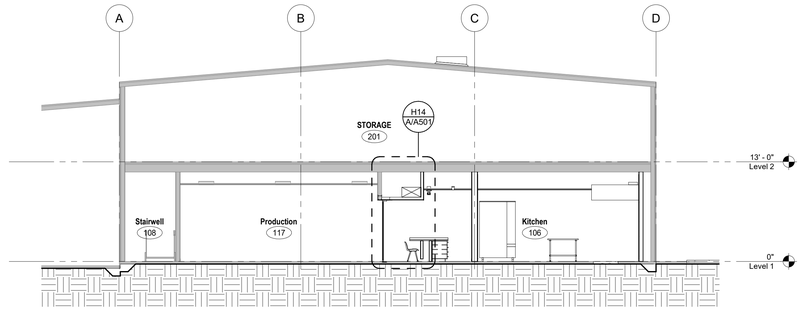
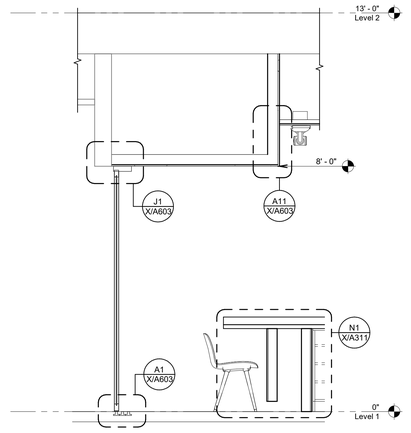
A1 — Roof Plan
1/8" = 1'-0"
Refer to F18 for Legend Symbols, Abbreviations and Notes



N11
1/8" = 1'-0"

BUILDING SECTION



H14
1/2" = 1'-0"

WALL SECTION

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637

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SECTIONS

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A/A501

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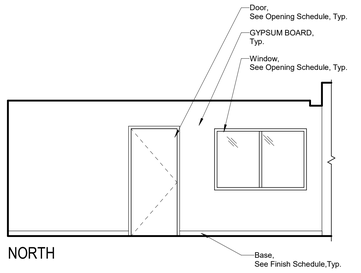

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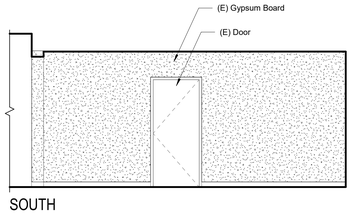

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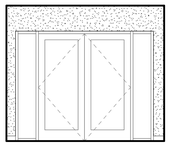
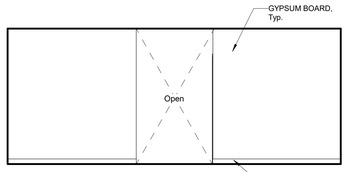


WEST

101 Entry



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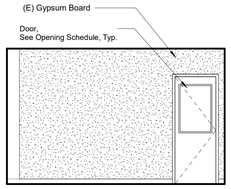
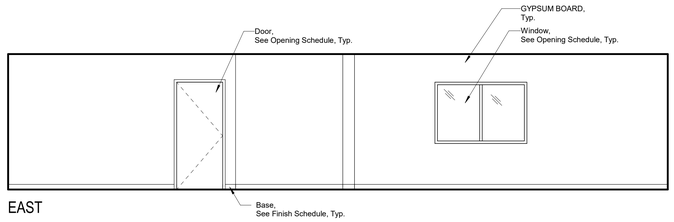


NORTH

102 Open Office



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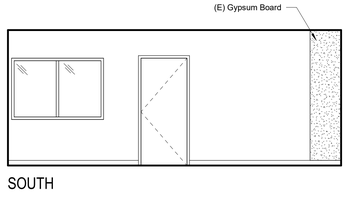

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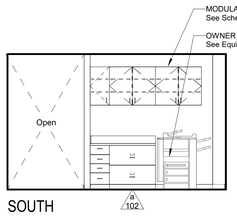

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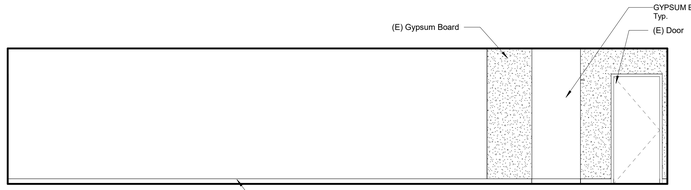

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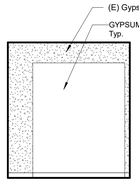

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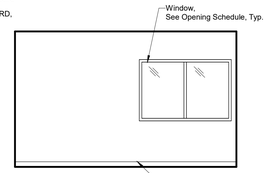

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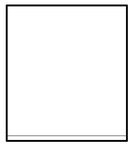

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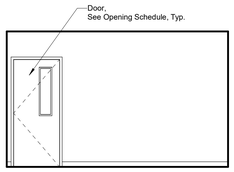
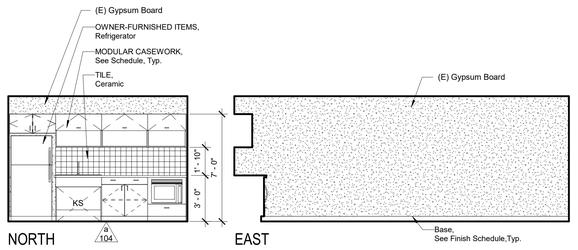


WEST

102 Open Office
(Continued)

103 Office



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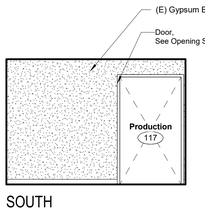

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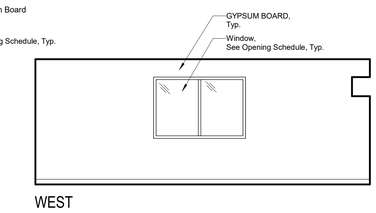

WEST

104 Break Room

SYMBOLS

- Cabinet Group No. Refer to Modular Casework Schedule and Lab Casework Schedule.
- 10 — Equipment Item No. Refer to Equipment 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
- (E) 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 Unless Noted Otherwise.
4. Provide backing at all TOILET ACCESSORIES, TOILET PARTITIONS, and IDENTIFYING DEVICES per detail N11 / X/A601 Unless Noted Otherwise.
5. Provide Backing for TOILET ACCESSORIES, Grab Bars per detail A7 / X/A601
6. Locate and mount IDENTIFYING DEVICES per detail E11 / X/A601 Unless Noted Otherwise.
7. Provide backing at all MODULAR CASEWORK and/or LAB CASEWORK AND EQUIPMENT per detail N11 / X/A601
8. Attach all MODULAR CASEWORK and/or LAB CASEWORK AND EQUIPMENT per details L14 / X/A301, L11 / X/A301
9. WALL COVERINGS, Vinyl Covered Tackboard, See detail J7 / X/A601
10. WALL COVERINGS, FRP Panels, See detail XX-X/A60X
11. GYPSUM BOARD, Control Joints, see details XX-X/A60X and XX-X/A60X

G18 — Interior Elevation legend

No Scale

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637
Project

BUILDING A
INTERIOR ELEVATIONS- ROOMS 101-104
Drawing

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Architect

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Project Number: 2310 | Checked IChecker
Date: xx/xx/xx | ReviewedApprover

A/A601

A1 — Interior Elevations
1/4" = 1'-0"
Refer to F18 for Legend Symbols, Abbreviations and Notes

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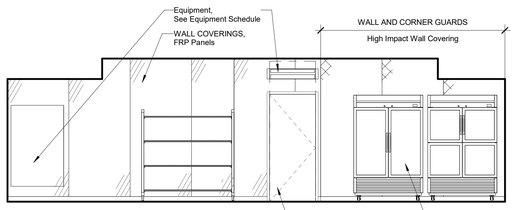

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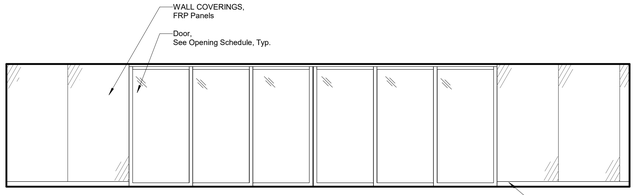

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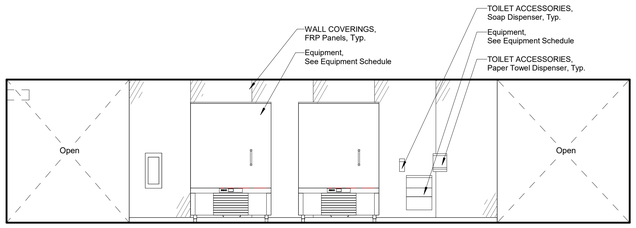
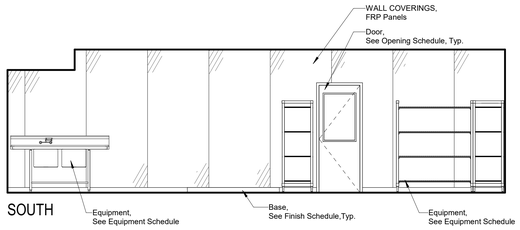


EAST

106 Kitchen



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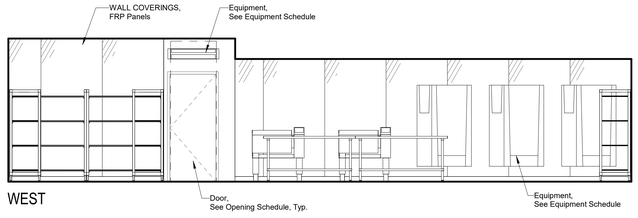

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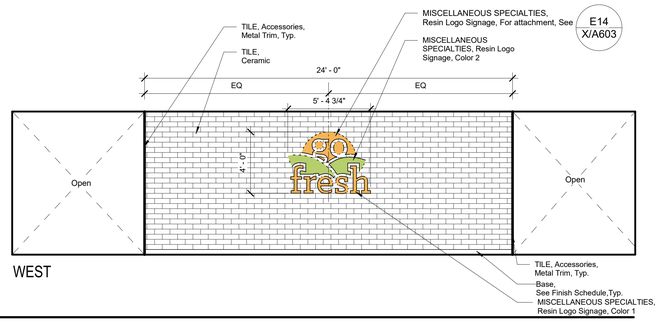
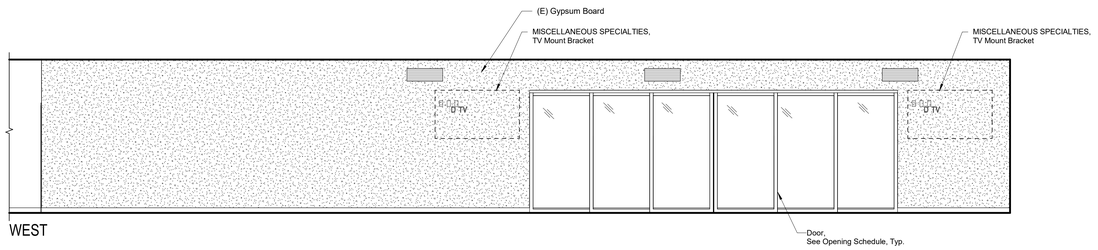


WEST

106 Kitchen
(Continued)

105 Dry Storage



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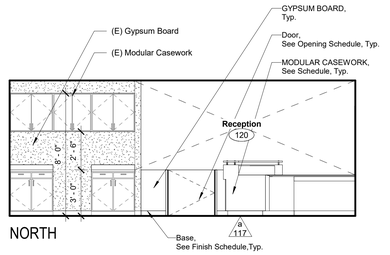
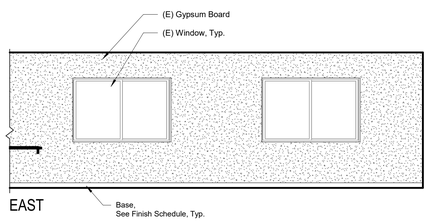


NORTH

117 Production

119 Open Office



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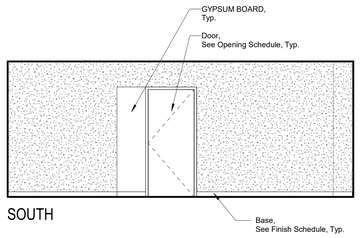

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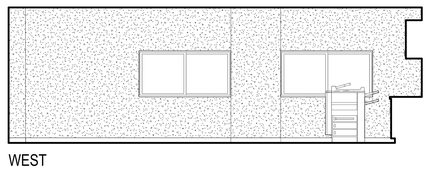
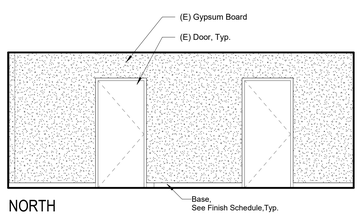


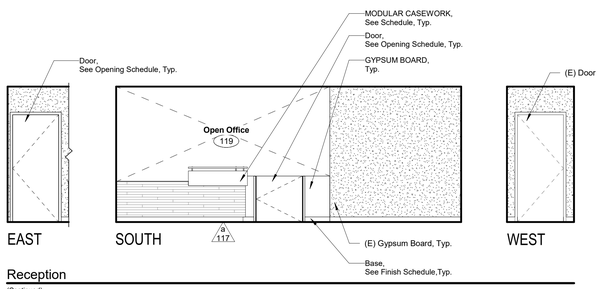
WEST

119 Open Office



NORTH

120 Reception



EAST SOUTH WEST

120 Reception
(Continued)

SYMBOLS

- Cabinet Group No. Refer to Modular Casework Schedule and Lab Casework Schedule.
- 10 — Equipment Item No. Refer to Equipment 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
- (E) 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 Unless Noted Otherwise.
4. Provide backing at all TOILET ACCESSORIES, TOILET PARTITIONS, and IDENTIFYING DEVICES per detail N11 X/A601 Unless Noted Otherwise.
5. Provide Backing for TOILET ACCESSORIES, Grab Bars per detail A7 X/A601
6. Locate and mount IDENTIFYING DEVICES per detail E11 X/A601 Unless Noted Otherwise.
7. Provide backing at all MODULAR CASEWORK and/or LAB CASEWORK AND EQUIPMENT per detail N11 X/A601
8. Attach all MODULAR CASEWORK and/or LAB CASEWORK AND EQUIPMENT per details L14 X/A301 L11 X/A301
9. WALL COVERINGS, Vinyl Covered Tackboard, See detail J7 X/A601
10. WALL COVERINGS, FRP Panels, See detail XX-X/A60X
11. GYPSUM BOARD, Control Joints, see details XX-X/A60X and XX-X/A60X

G18 — Interior Elevation legend

No Scale

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637
Project

BUILDING A
INTERIOR ELEVATIONS- ROOMS 117-120
Drawing

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

LICENSED ARCHITECT — MATTHEW R. HEISS — No. C35878 — Exp. 05-31-25 — STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed Designer	Copyright 2022 Darden Architects
Scale: 1/4" = 1'-0"	Drawn By: Author	A/A602
Project Number: 2310	Checked By Checker	
Date: xx/xx/xx	Reviewed Approver	

A1 — Interior Elevations

1/4" = 1'-0"

Refer to F18 for Legend Symbols, Abbreviations and Notes

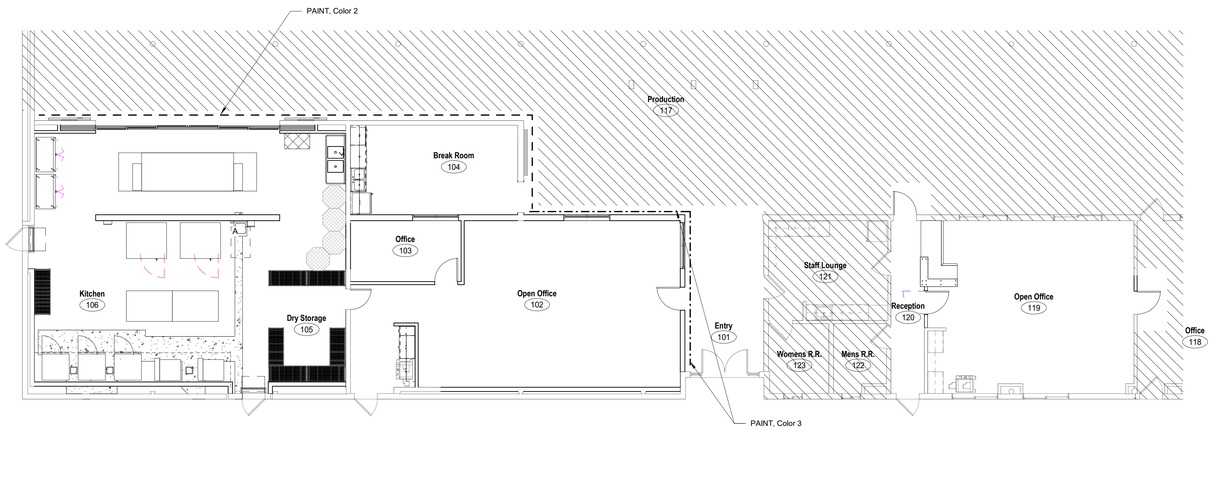
8/28/2024 9:27:21 AM
C:\Users\williamc\Documents\2310 MUSD Child Nutrition Protein Kitchen Remodel_williamcDD5LG.rvt

ACCENT PAINT

All New and Existing Gypsum Board within the scope of the project to be PAINT, Color 1.

PAINT, Color 2

PAINT, Color 3



M18 — Interior Design Legend

No Scale

A1 — Accent Paint Plan

1/8" = 1'-0"

Refer to M18 for Interior Design Legend

8/28/2024 9:27:21 AM
C:\Users\williamc\Documents\2310 MUSD Child Nutrition Protein Kitchen Remodel_williamcDD5LG.rvt

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637

Project

BUILDING A
INTERIOR DESIGN- ACCENT PAINT PLAN

Drawing

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LICENSED ARCHITECT
MATTHEW R. REED
No. C35878
Exp. 05-31-06
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed Designer

Scale: 1/8" = 1'-0"
Drawn By: Author
Project Number: 2310
Checked Checker
Date: xx/xx/xx
Reviewed Approver

A/A801

N7 "SHOT PIN" NOTES FOR HILTI X-U

X/S101 NOT TO SCALE

1. THESE NOTES GOVERN ALL CONDITIONS CALLED OUT ON THE PLANS AS 'SHOT PINS' UNLESS SPECIFICALLY NOTED OTHERWISE.
2. ALL SHOT PINS SHALL BE AS MANUFACTURED BY HILTI, INCORP. REFERENCE SHALL BE MADE TO THE LATEST EDITION OF THE HILTI 'PRODUCT TECHNICAL GUIDE' AND THE ICC-ES ESR-2269 REPORT FOR ADDITIONAL INFORMATION.
3. SHOT PINS DRIVEN INTO STEEL BASE MATERIAL SHALL BE X-U TYPE WITH P8 WASHERS. LENGTH OF PIN SHALL BE AS REQUIRED TO PENETRATE THROUGH THE STEEL BASE MATERIAL. MINIMUM EDGE DISTANCE TO ANY CONNECTED PART SHALL BE 1/2" AND MINIMUM FASTENER SPACING SHALL BE 2". ENTIRE POINTED END OF PIN MUST PENETRATE THROUGH STEEL LESS THAN 1/2" THICK OR PENETRATE A MINIMUM OF 1/2" INTO STEEL 1/2" THICK OR GREATER. PINS IN STEEL SUBJECT TO WITHDRAW LOADS ARE REQUIRED TO HAVE KNURLED SHANK.
4. SHOT PINS DRIVEN INTO CONCRETE BASE MATERIAL SHALL BE X-U TYPE WITH P8 WASHERS. LENGTH OF PIN SHALL BE AS REQUIRED TO PENETRATE 1 1/2" INTO THE CONCRETE BASE MATERIAL. MINIMUM EDGE DISTANCE TO ANY CONCRETE MATERIAL SHALL BE 3" AND MINIMUM FASTENER SPACING SHALL BE 4".
5. SHOT PINS DRIVEN INTO CONCRETE BASE MATERIAL THROUGH METAL DECK SHALL BE X-U TYPE WITH P8 WASHERS. LENGTH OF PIN SHALL BE AS REQUIRED TO PENETRATE 1" INTO THE CONCRETE THROUGH THE LOW FLUTE. PIN SHALL BE CENTERED IN THE LOW FLUTE AND MINIMUM FASTENER SPACING SHALL BE 4".
6. WHERE STEEL WASHERS ARE INDICATED ON THE DRAWINGS, PINS SHALL BE X-U WITH PREMOUNTED STEEL WASHERS WITH A MINIMUM DIAMETER OF 38mm (1 1/16").

N11 LEGENDS AND SYMBOLS

X/S101 NOT TO SCALE

-STEEL
-NATIVE SOIL
-MASONRY
-ENGINEERED FILL
-AGGREGATE
-GROUT
-WOOD BLOCK
-CONCRETE
-CONTINUOUS WOOD MEMBER

DETAIL NUMBER / SHEET NUMBER — X / XX — -DETAIL

SECTION NUMBER / SHEET NUMBER — X / XX — -SECTION

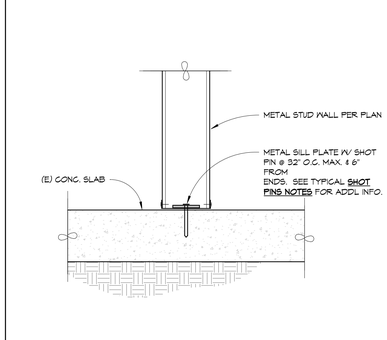
ELEVATION NUMBER / SHEET NUMBER — X / XX — -ELEVATION

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.

DSA File No.:

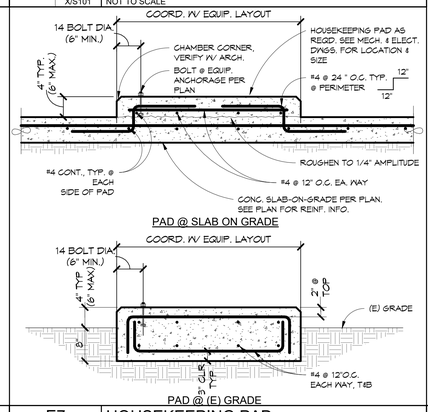
DSA Application No.:

Agency Approval



J7 SAW CUTTING IN CONCRETE

X/S101 NOT TO SCALE



J11 GENERAL PROJECT NOTES

X/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
EA.	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.A.	WELDED WIRE MESH
W.W.P.A.	WESTERN WOOD PRODUCTS ASSOCIATION

General Notes

BrooksRansom ASSOCIATES 24134
1405 N PALM AVE. STE 103 | FRESNO, CA 93728
(559) 449-8444 OFFICE | (559) 449-8404 FAX

REGISTERED PROFESSIONAL ENGINEER — TAYLORD R. RANSOM — No. 52386 — EXPIRES 12/31/25 — STATE OF CALIFORNIA

CHILD NUTRITION KITCHEN
MADERA UNIFIED SCHOOL DISTRICT
769 S. PINE. ST. MADERA, CA 93637
Project

TYPICAL PROJECT NOTES & DETAILS
Drawing

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LICENSED ARCHITECT — ARSHID J. AYUB — No. C26235 — Exp. 10-31-25 — STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

		Designed Designer	Copyright Darden Architects
Scale:	As indicated	Drawn By: Author	X/S101
Project Number:	2310	Checked IChecker	
Date:	2024-07-25	Reviewed Approver	

A7 RETRO. NON-BEARING WALL CONN.

X/S101 NOT TO SCALE

A11 SPECIAL INSPECTION NOTES

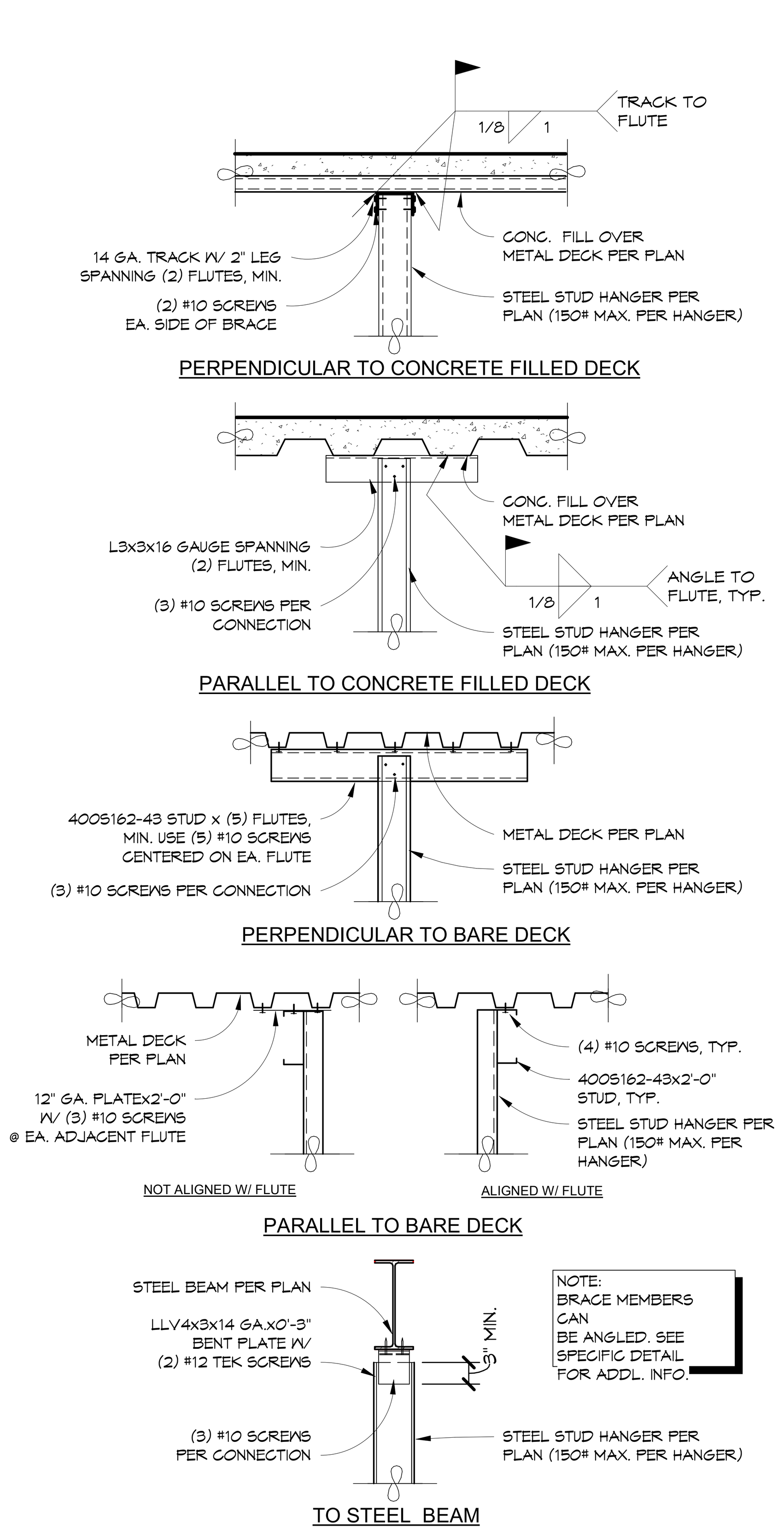
X/S101 NOT TO SCALE

A SPECIAL INSPECTOR EMPLOYED BY THE OWNER IN ACCORDANCE WITH THE REQUIREMENTS OF THE CALIFORNIA CODE OF REGULATIONS, TITLE 24 AND SECTION 1704.2 OF THE 2022 C.B.C. SHALL BE REQUIRED TO INSPECT THE PORTIONS OF THE PROJECT LISTED BELOW. THE SPECIAL INSPECTOR'S DUTIES ARE SPECIFICALLY DEFINED BY TITLE 24. THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF INSPECTIONS AS REQUIRED IN SECTION 1704.2.4 OF THE 2022 C.B.C. AND SUBMIT THEIR REPORTS DIRECTLY TO THE BUILDING DEPARTMENT.

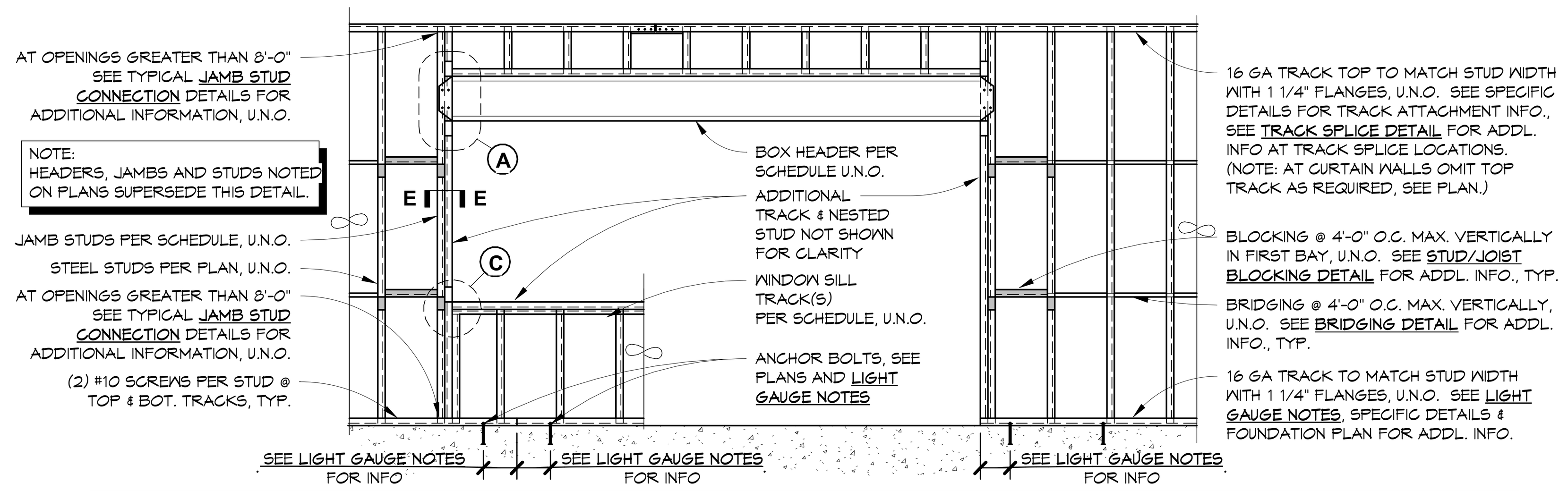
REQUIRED AREAS OF INSPECTION	2022 C.B.C. REFERENCES
- STEEL	SECTIONS 1705.2.1 AND 1705.12.1 AND TABLE 1705.2.3
- CONCRETE	SECTION 1705.3 AND TABLE 1705.3
- MASONRY	SECTION 1705.4
-RISK CATEGORY I, II OR III	TMS 402/ACI 530/ASCE 5
-RISK CATEGORY IV	TMS 602/ACI 530.1/ASCE 6
- WOOD	SECTIONS 1705.5 AND 1705.11.1/1705.12.2
- SOILS	SECTION 1705.6 AND TABLE 1705.6
- DRIVEN FOUNDATIONS	SECTION 1705.7 AND TABLE 1705.7
- CAST-IN-PLACE DEEP FOUNDATIONS	SECTIONS 1705.8 AND TABLE 1705.8
- POST-INSTALLED ANCHORS	SECTION 1909.2.7 AND I.C.C. E.S.R. EPORTS
- EPOXY ADHESIVES	SECTION 1909.2.7 AND I.C.C. E.S.R. REPORTS

A14 ABBREVIATIONS

X/S101 NOT TO SCALE

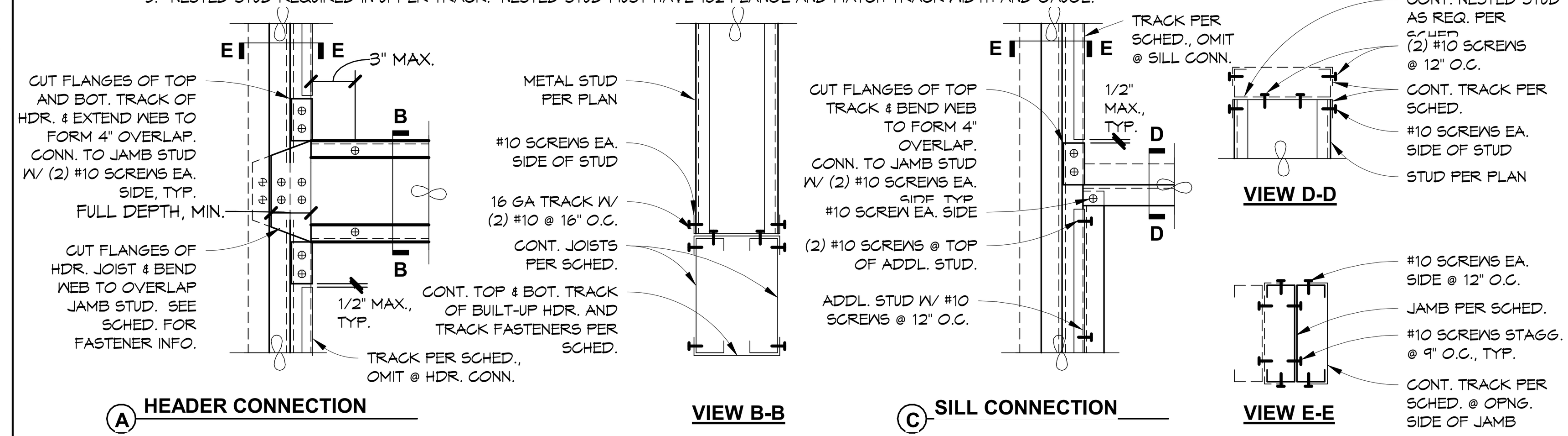


J1 HANGER/BRACE ATTACHMENTS
X/S102 NOT TO SCALE

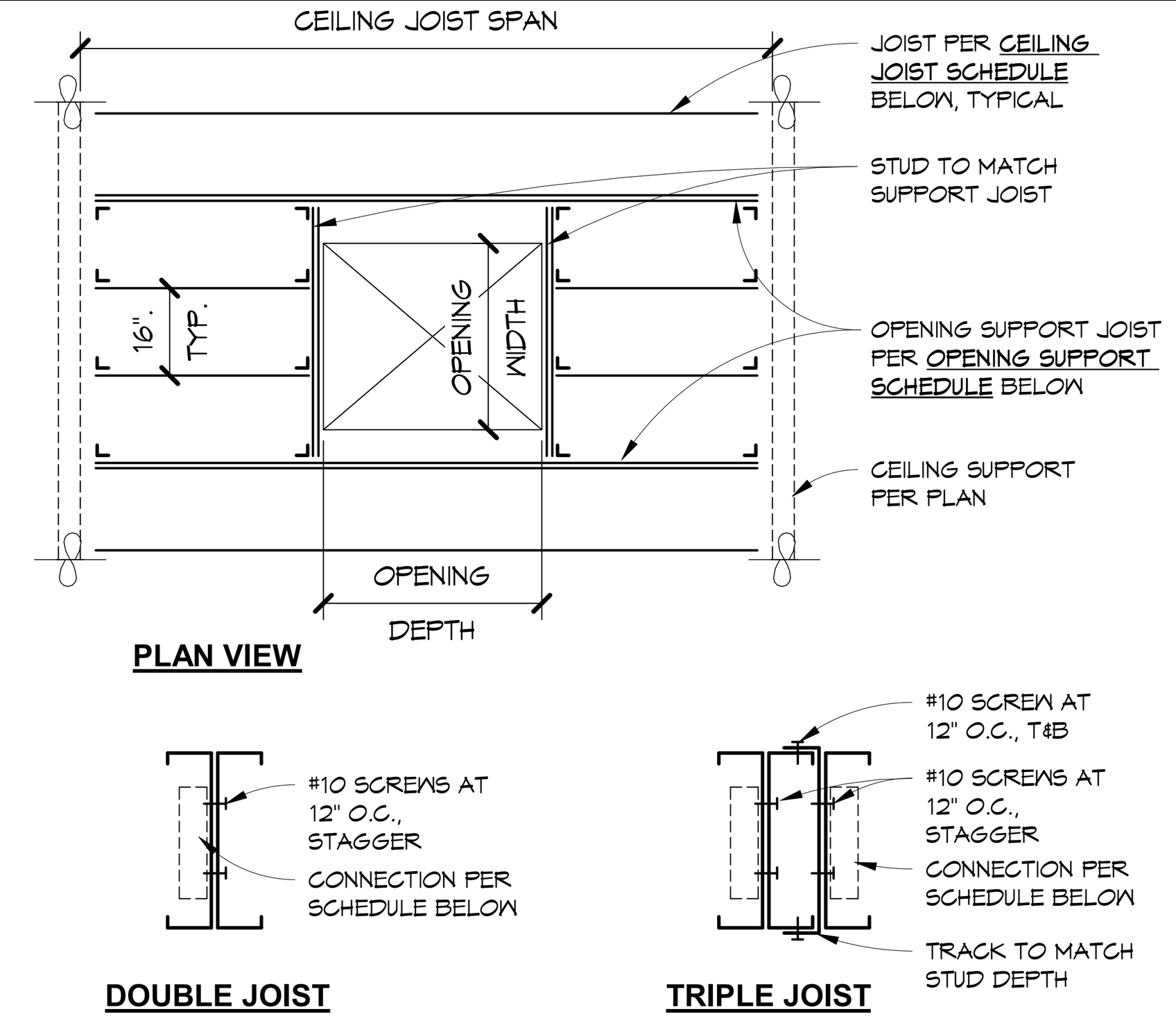


LIGHT GAUGE FRAMING SCHEDULE							
WALL TYPE	SPAN LENGTH	BOX HEADER		JAMB STUDS	WINDOW SILL TRACK(S)	NO. OF #10 SCREWS @ HDR. JST. TO JAMB	SPACING OF #10 SCREWS @ EA. HDR. TRK. TO EA. HDR. JST.
		DBL. JOISTS	T&B TRACKS				
3 5/8" STUDS	0'-0" TO 8'-0"	600S162-54	362T125-54	(3)362S162-68 [3]	362T125-54	3	12" O.C.
	8'-1" TO 10'-0"	800S162-54	362T125-54	(3)362S162-68 [3]	(2)362T125-54 [5]	4	10" O.C.
6" STUDS	0'-0" TO 8'-0"	600S162-54	600T125-54	(2)600S162-54 [4]	600T125-43	3	12" O.C.
	8'-1" TO 10'-0"	800S162-54	600T125-54	(2)600S162-54 [4]	600T125-54	4	10" O.C.
	10'-1" TO 12'-0"	1000S162-54	600T125-54	(2)600S162-54 [4]	600T125-54	5	8" O.C.
	12'-1" TO 14'-0"	1000S162-97	600T125-97	(2)600S162-68 [4]	(2)600T125-54 [5]	5	6" O.C.
	14'-1" TO 24'-0"	1200S250-97	600T125-97	(2)600S162-68 [4]	(2)600T125-68 [5]	6	6" O.C.
8" STUDS	0'-0" TO 8'-0"	600S162-54	800T125-54	(2)800S162-54 [4]	800T125-43	3	12" O.C.
	8'-1" TO 10'-0"	800S162-54	800T125-54	(2)800S162-54 [4]	800T125-43	4	10" O.C.
	10'-1" TO 12'-0"	1000S162-54	800T125-54	(2)800S162-54 [4]	800T125-54	5	8" O.C.
	12'-1" TO 14'-0"	1000S162-97	800T125-97	(2)800S162-54 [4]	800T125-54	5	6" O.C.
	14'-1" TO 18'-0"	1200S250-97	800T125-97	(2)800S162-54 [4]	(2)800T125-54 [5]	6	6" O.C.

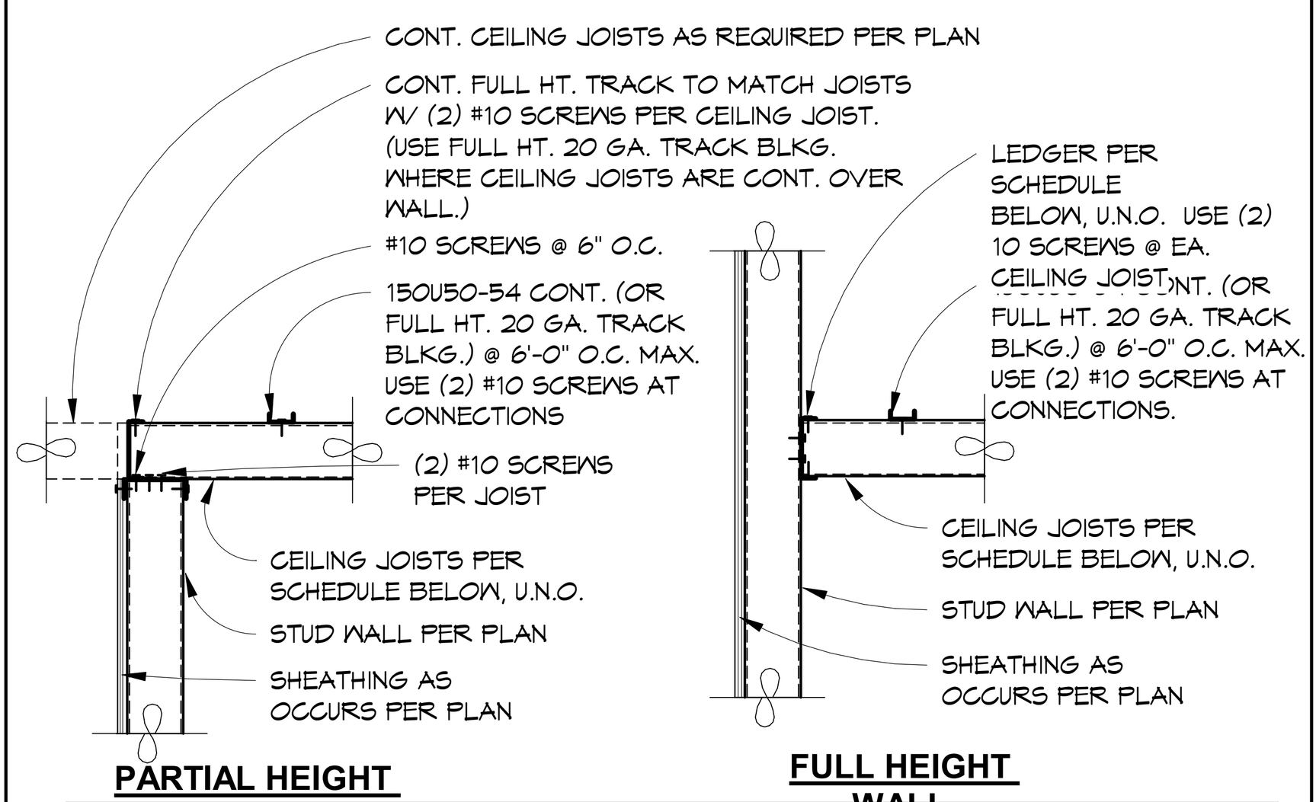
1. LIMITATIONS: 1) 450 PLF MAX. VERTICAL LOAD (ASD) TO HDR. 2) 20 PSF MAX. OUT-OF-PLANE LOAD (ASD) TO HDR, JAMB AND SILL. 3) 14'-0" MAX WALL HT.
2. DEFLECTION LIMITATIONS: 1) L/360 VERTICAL. 2) L/240 OUT-OF-PLANE.
3. TWO TRACKS REQUIRED. TRACKS MUST HAVE 125 FLANGE AND MATCH STUD WIDTH AND GAUGE. SEE DETAILS FOR PLACEMENT.
4. ONE TRACK REQUIRED. TRACK MUST HAVE 125 FLANGE AND MATCH STUD WIDTH AND GAUGE. SEE DETAILS FOR PLACEMENT.
5. NESTED STUD REQUIRED IN UPPER TRACK. NESTED STUD MUST HAVE 162 FLANGE AND MATCH TRACK WIDTH AND GAUGE.



J4 BEARING AND EXTERIOR WALL FRAMING
X/S102 NOT TO SCALE



OPENING SUPPORT SCHEDULE		
OPENING WIDTH	JOIST TYPE	CONNECTION TYPE
16" MAX.	SINGLE JOIST	(1) SIMPSON L50
32" MAX.	DOUBLE JOIST	(1) SIMPSON L50
48" MAX.	TRIPLE JOIST	(2) SIMPSON L50



CEILING JOIST SCHEDULE		
MAX SPAN	SIZE/SPACING	LEDGER SIZE / ATTACHMENT
UP TO 10'-0"	400S162-33 @ 16" O.C.	400T125-33 W/(2) #10 SCREWS PER STUD
10'-1" TO 12'-0"	600S162-33 @ 16" O.C.	600T125-33 W/(3) #10 SCREWS PER STUD
12'-1" TO 16'-0"	600S162-43 @ 16" O.C.	600T125-43 W/(3) #10 SCREWS PER STUD

NOTES:
1. DEFLECTION LIMIT IS L/360 WITH 13 PSF D.L. AND 10 PSF L.L.
2. JOISTS SPAN AND SPACING PER ICBO 4943P TABLES.

J11 CEILING JOIST SCHEDULE
X/S102 NOT TO SCALE

1. ALL MEMBERS SHALL BE MANUFACTURED BY A CURRENT MEMBER OF THE STEEL STUD MANUFACTURER'S ASSOCIATION, IN ACCORDANCE WITH THE LATEST AMERICAN IRON AND STEEL INSTITUTE - NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS INCLUDING THE LATEST SUPPLEMENTS (A.I.S.I.-N.A.S.).
2. ALL GALVANIZED STUDS, TRACKS AND JOISTS SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE MINIMUM REQUIREMENTS OF THE LATEST A.I.S.I.-N.A.S. STANDARD.
3. ALL STEEL MEMBERS SHALL HAVE PHYSICAL MARKING AND IDENTIFICATION NUMBERS AS REQUIRED BY A.S.T.M. C645 AND A.S.T.M. C955. THESE MARKINGS MUST INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING INFORMATION: DEPTH, FLANGE WIDTH, MINIMUM STEEL THICKNESS, MANUFACTURER DESIGNATION, STEEL YIELD STRENGTH AND PROTECTIVE COATING WEIGHT.
4. STRUCTURAL STEEL FRAMING MEMBERS MUST MEET THE PHYSICAL REQUIREMENTS OF A.S.T.M. C955, THE INSTALLATION REQUIREMENTS OF A.S.T.M. C1007 AND THE MINIMUM COATING REQUIREMENTS OF A.S.T.M. A653 COATING DESIGNATION G-60.
5. NON-STRUCTURAL STEEL FRAMING MEMBERS MUST MEET THE PHYSICAL REQUIREMENTS OF A.S.T.M. C645, THE INSTALLATION REQUIREMENTS OF A.S.T.M. C754 AND THE MINIMUM COATING REQUIREMENTS OF A.S.T.M. A653 COATING DESIGNATION G-40.
6. STEEL SHALL BE A.S.T.M. A1003, GRADE 50 FOR 12, 14, AND 16 GAUGE SECTIONS, AND A.S.T.M. A1003, GRADE 33 FOR 18 AND HIGHER GAUGE SECTIONS.
7. PROVIDE STEEL MEMBERS WITH SECTION PROPERTIES EQUAL TO OR GREATER THAN THOSE SPECIFIED BY THE "STEEL STUD MANUFACTURER'S ASSOCIATION" (S.S.M.A.) CATALOG, ICC ESR-3064P, FOR THE MEMBER SIZES DESIGNATED ON THE PLANS.
8. THE CONTRACTOR MUST PROVIDE A MATERIAL SUBMITTAL INDICATING THE SIZE, GAUGE, SECTIONAL PROPERTIES AND MATERIALS TO BE USED TO THE ARCHITECT AND ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION ACCORDANCE WITH THE SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AGENCY APPROVAL FOR ANY SUBSTITUTIONS.
9. BENT, KINKED, DISTORTED, CORRODED OR DAMAGED SECTIONS SHALL NOT BE USED.
10. STUDS MAY HAVE CUTOUTS (OR KNOCKOUTS). CUTOUTS MAY BE A MAXIMUM DIMENSION OF 1 1/2" WIDE x 4" LONG AND HAVE A MINIMUM SPACING OF 24" O.C. EXCEPT CUTOUTS FOR 1 5/8" AND 2 1/2" MUST NOT EXCEED A WIDTH OF 3/4". CUTOUTS SHALL NOT BE CLOSER THAN 12" FROM MEMBER ENDS.
11. ALL WELDING TO BE PERFORMED BY LIGHT GAUGE WELDERS CERTIFIED FOR ALL APPROPRIATE DIRECTIONS COMPLYING WITH A.W.S. D1.3. WELDING RODS SHALL CONFORM TO THE FOLLOWING:
    - 18 GA. AND LIGHTER: E60XX
    - 16 GA. AND HEAVIER: E70XX OR E6013
    - LIGHT GAUGE TO STRUCTURAL STEEL: E70XX LOW HYDROGEN
12. ALL WELDS OF GALVANIZED STEEL SHALL BE TOUCHED UP WITH A ZINC-RICH PAINT. ALL WELDS OF CARBON SHEET STEEL SHALL BE TOUCHED UP WITH PAINT.
13. WIRE TYING OF COMPONENTS SHALL NOT BE PERMITTED.
14. LATERAL BRIDGING FOR STEEL STUD IS REQUIRED WHEN WALL BOARD, INSTALLED IN ACCORDANCE WITH A.I.S.I.-N.A.S. REQUIREMENTS, DOES NOT CONTINUE FULL HEIGHT ON BOTH SIDES. BRIDGING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND TYPICAL BRIDGING DETAILS. ALL EXTERIOR WALLS SHALL HAVE BRIDGING PER TYPICAL BRIDGING DETAILS.
15. SCREWS SHALL BE SELF-DRILLING/SELF-TAPPING STEEL SCREWS INSTALLED IN ACCORDANCE WITH THE A.I.S.I.-N.A.S. SCREWS SHALL HAVE SUFFICIENT LENGTH TO ENSURE A MINIMUM OF 3 FULL THREADS SHOWING AFTER PENETRATION OF JOINED LIGHT GAUGE MATERIALS. SCREWS SHALL HAVE A MINIMUM OF 1" EDGE/SPACING DISTANCE. THE MINIMUM SCREW HEAD DIAMETER SHALL BE 5/16", AND SCREW SIZES SHALL CONFORM TO THE FOLLOWING, U.N.O. :

METAL TO METAL FASTENER SIZE	
METAL THICKNESS 'T'	SCREW TYPE
T < 12 GA.	#10 W/ #3 POINT
12 GA. < T < 3/16"	#12 W/ #3 POINT
3/16" < T < 5/16"	1/4" DIA. W/ #4 POINT

16. LIGHT GAUGE STEEL CONTRACTOR SHALL PROVIDE ALL ACCESSORIES INCLUDING, BUT NOT LIMITED TO, TRACKS, CLIPS, WEB STIFFENERS, ANCHORS, FASTENING DEVICES, RESILIENT CLIPS AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE AND PROPER INSTALLATION, AND AS RECOMMENDED BY THE MANUFACTURER FOR THE STEEL MEMBERS BEING USED.
17. STEEL TRACKS THAT OCCUR UNDER ALL EXTERIOR CURTAIN WALLS, BEARING WALLS AND SHEAR WALLS SHALL BE BOLTED TO MASONRY OR CONCRETE WITH 5/8"Φ x 12" BOLTS SPACED NOT MORE THAN 5'-0" ON CENTER, WITH A MIN. OF 2 BOLTS FOR EACH PIECE OF TRACK, U.N.O. USE STANDARD STEEL PLATE WASHERS AT EACH BOLT LOCATION.
18. ALL ANCHOR BOLTS IN STEEL TRACKS SHALL BE 4 INCH MINIMUM AND 12 INCH MAXIMUM FROM THE END OF THE TRACK, AND HAVE 7 INCH MINIMUM EMBEDMENT INTO CONCRETE OR MASONRY. ANY LOCATION WHERE A HOLE OR NOTCH OCCURS THROUGH A TRACK FLANGE, TRACK SHALL HAVE AN ADDITIONAL ANCHOR BOLT PLACED 4 INCHES TO 12 INCHES ON EACH SIDE OF THE HOLE OR NOTCH.
19. ALL ANCHOR BOLTS SHALL BE MACHINE MADE TYPE F1554 GRADE 36 U.N.O. BOLTS WITH UPSET THREADS ARE NOT PERMITTED.
20. ALL STEEL FRAMING MEMBERS SHALL BE DESIGNATED ON PLANS WITH THE S.S.M.A. STUD AND TRACK SECTION NOMENCLATURE AS DESCRIBED BELOW:

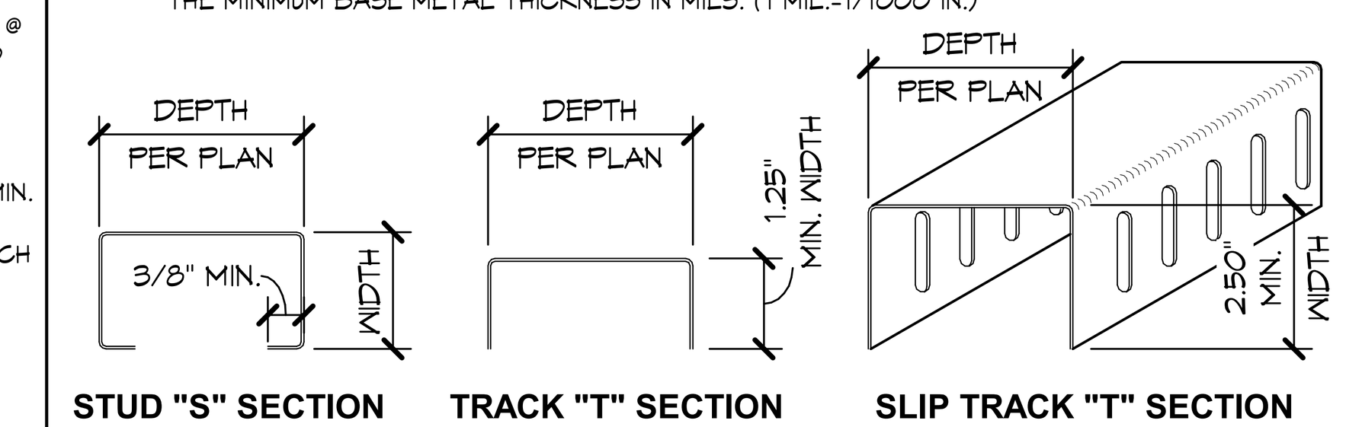
600 S 162 - 54

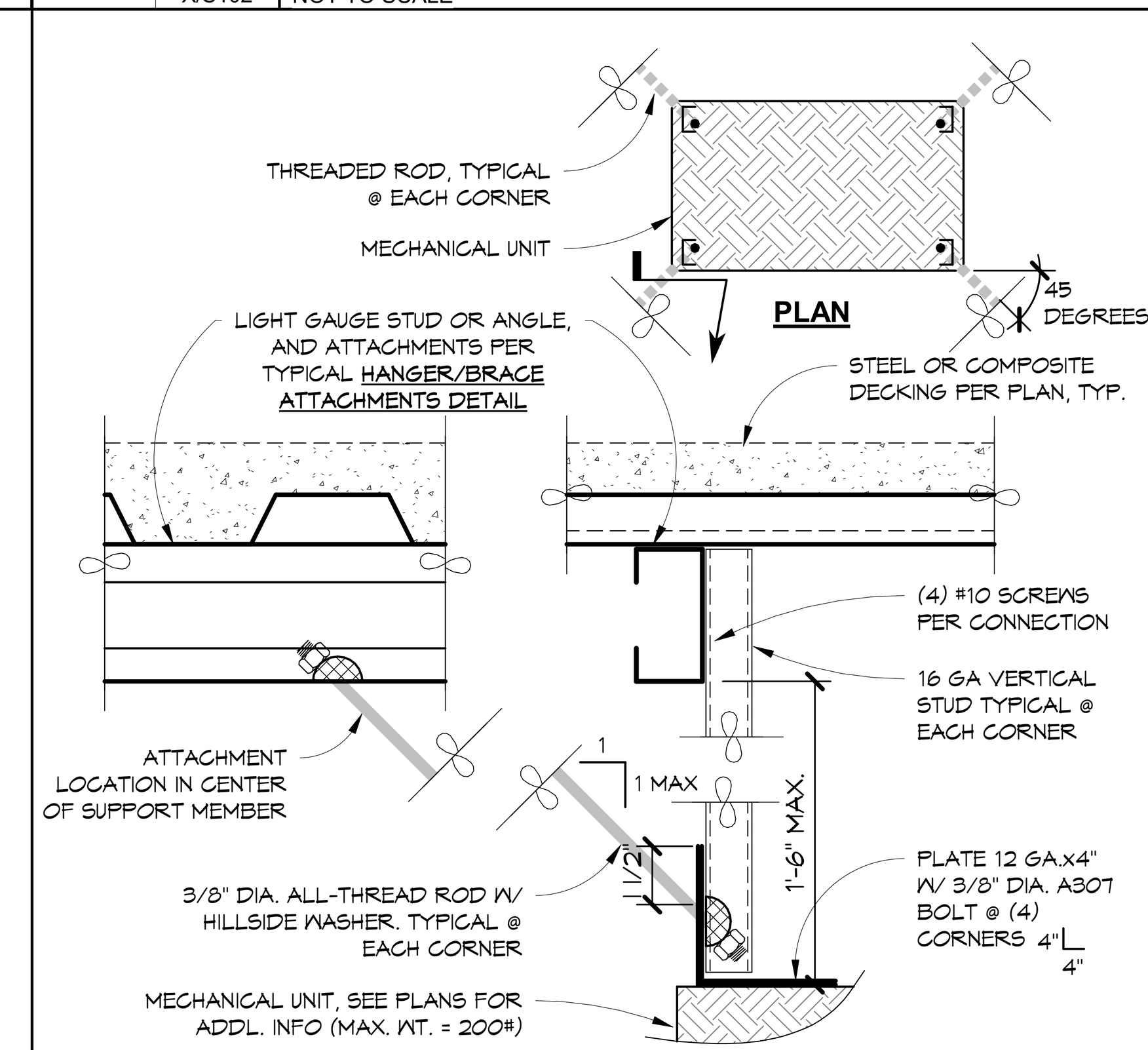
MEMBER DEPTH: (EXAMPLE: 6" = 600 X 1/100 INCHES) FOR ALL "T" SECTIONS MEMBER DEPTH IS THE INSIDE TO INSIDE DIMENSION.

STYLE: (EXAMPLE: STUD OR JOIST SECTION = S)

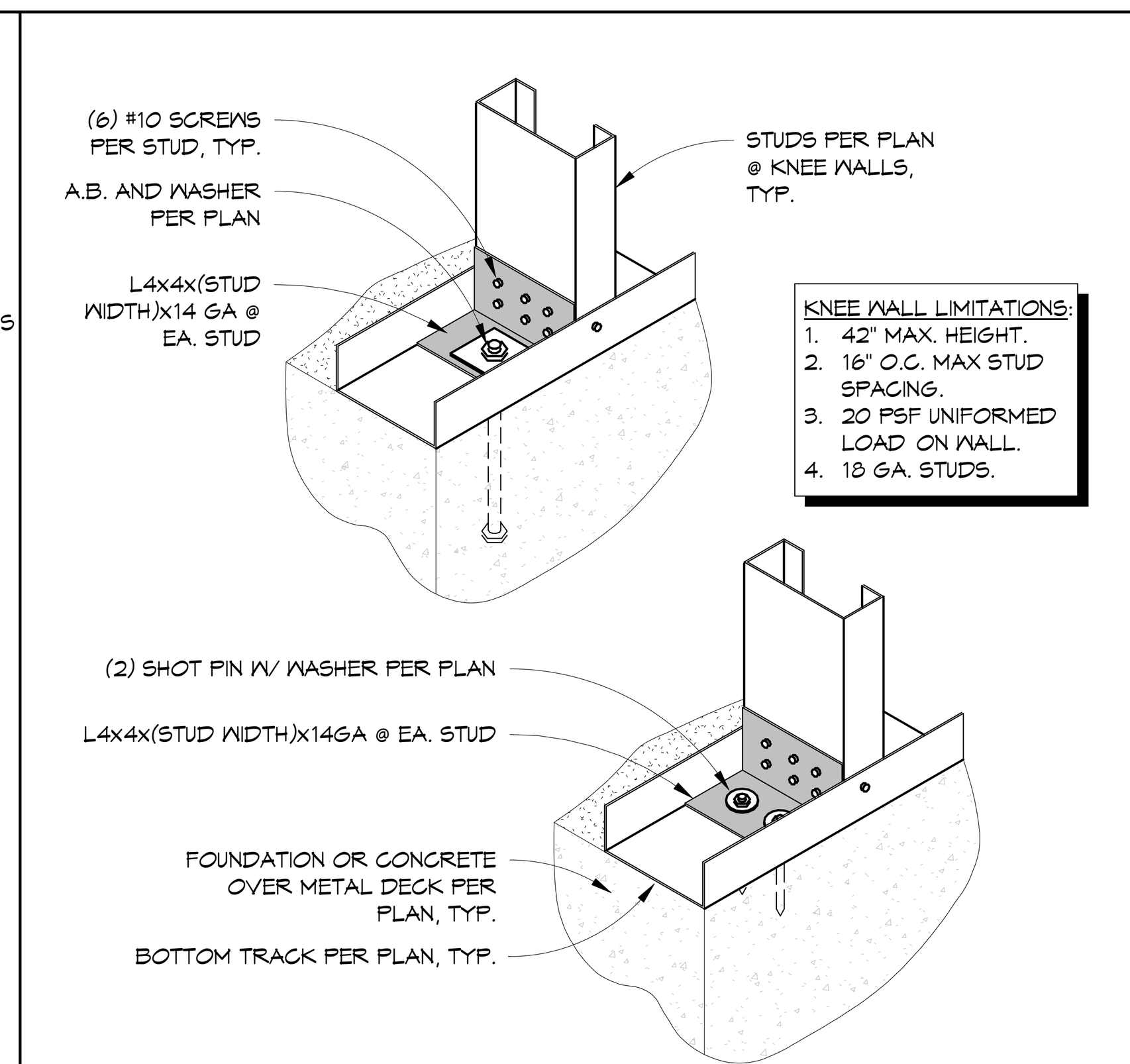
FLANGE WIDTH: (EXAMPLE: 1 5/8" = 1.625" = 162) ALL FLANGE WIDTHS ARE TAKEN IN 1/100 INCHES.

MATERIAL THICKNESS: (EXAMPLE: 18 GA = 0.054 IN. = 54 MILS) THE MINIMUM BASE METAL THICKNESS IN MILS. (1 MIL.=1/1000 IN.)

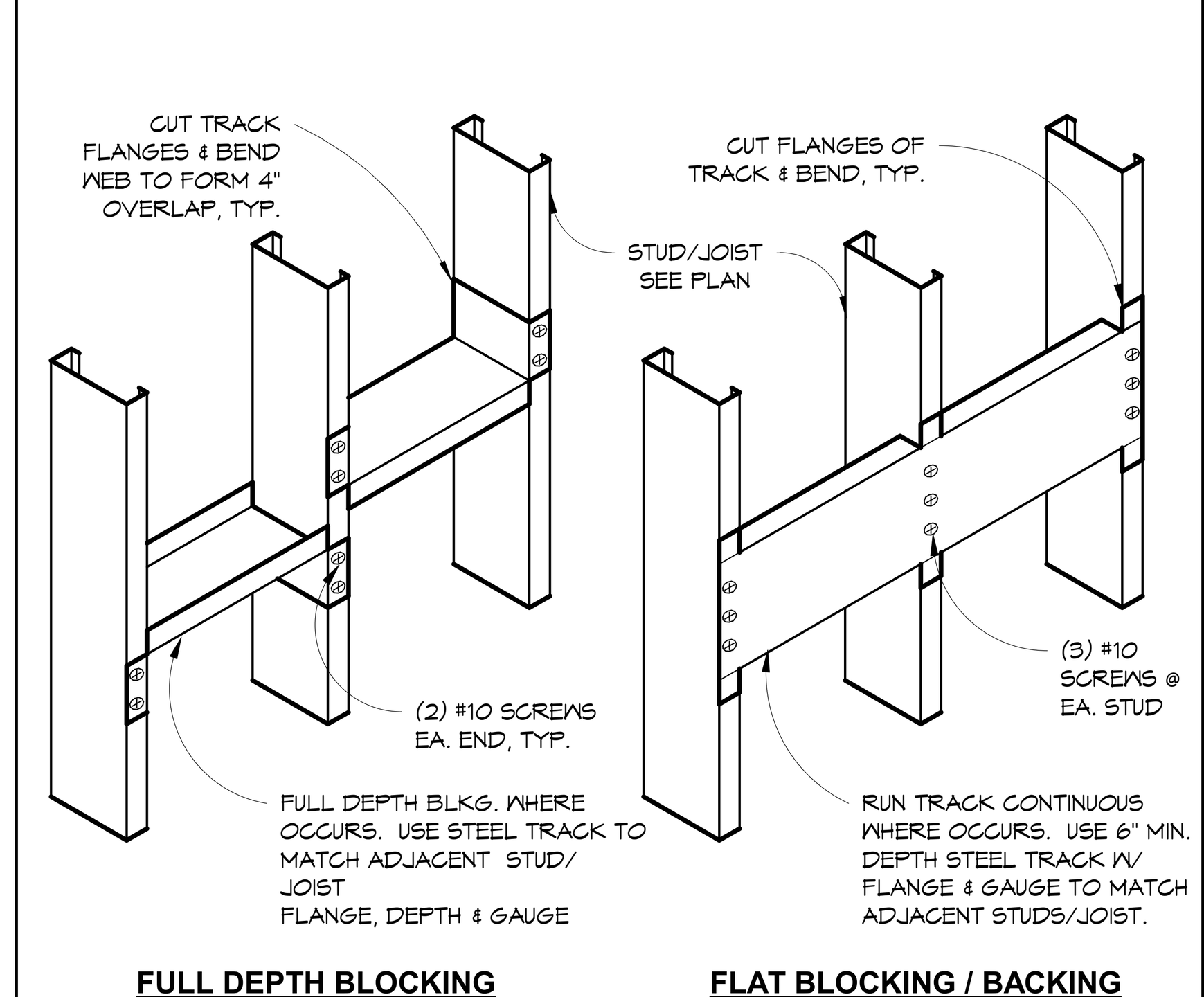




E4 HANGING MECHANICAL SUPPORT
X/S102 NOT TO SCALE

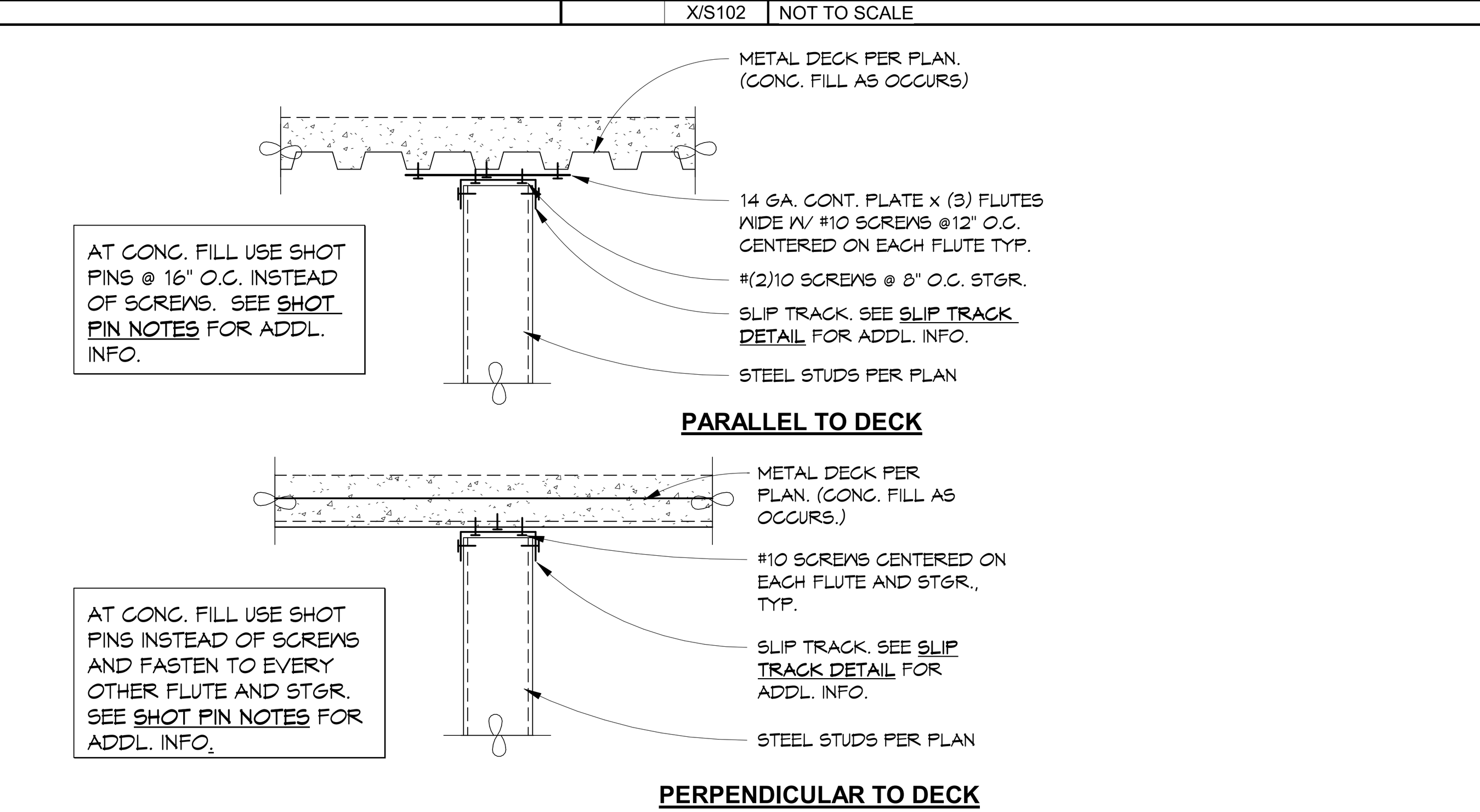


E7 KNEE WALL ATTACHMENT
X/S102 NOT TO SCALE



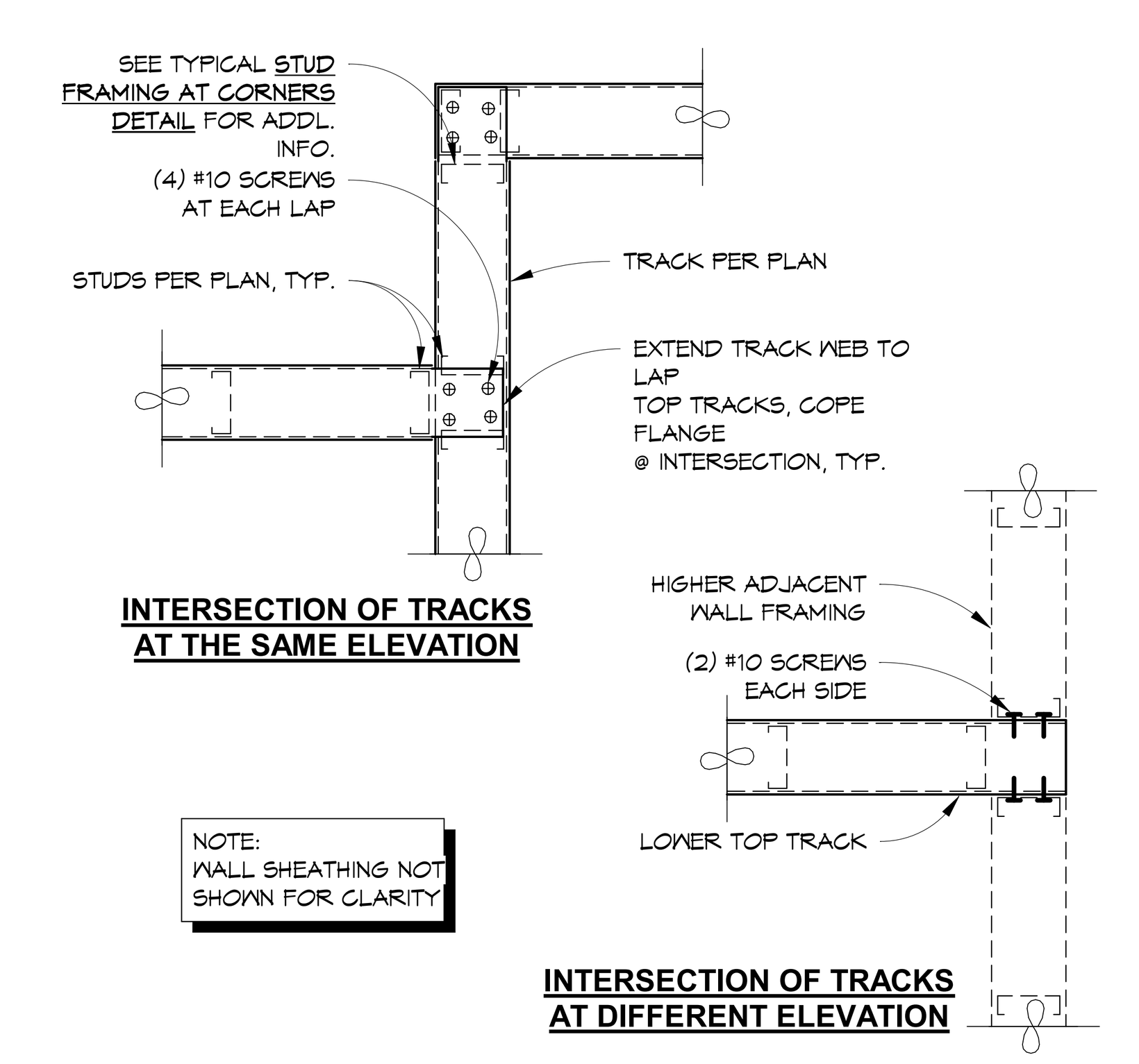
E11 STUD/JOIST BLOCKING
X/S102 NOT TO SCALE

E14 LIGHT GAUGE STEEL NOTES
X/S102 NOT TO SCALE

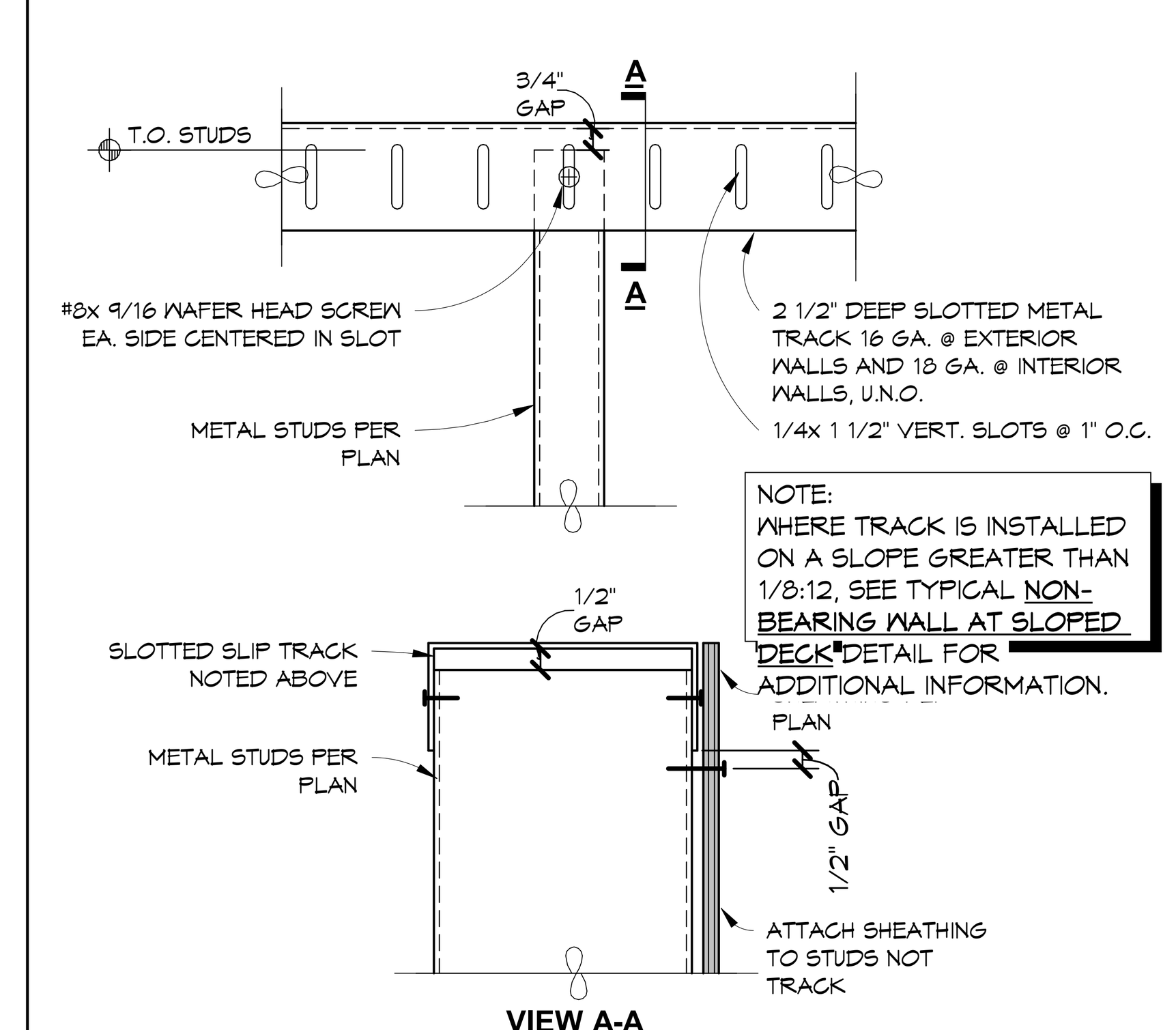


NOTE: INSTALL ALL STUDS ONLY AFTER MAJOR DEAD LOADS FROM FLOOR AND/OR ROOF ABOVE HAVE BEEN APPLIED, SUCH AS CONCRETE FILL AND ROOFING MATERIAL.

A4 NON-BEARING METAL STUD WALL AT MTL. DECK
X/S102 NOT TO SCALE



A11 TOP TRACK FRAMING AT CORNERS
X/S102 NOT TO SCALE



A14 SLIP TRACK FOR NON-BEARING
X/S102 NOT TO SCALE

DSA File No.:

DSA Application No.:

Agency Approval

General Notes

BrooksRansom ASSOCIATES 24134

CHILD NUTRITION KITCHEN
MADERA UNIFIED SCHOOL DISTRICT
769 S. PINE. ST. MADERA, CA 93637
Project

TYPICAL LIGHT GAUGE NOTES & DETAILS
Drawing

darden architects — ARCHITECTURE PLANNING INTERIORS — www.dardenarchitects.com
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Architect

No.	Revision/Submission	Date

Revision

	Designed Designer	Copyright	Darden Architects
Scale: As indicated	Drawn By: Author		
Project Number: 2310	Checked I Checker	X/S102	
Date: 2024-07-25	Reviewe Approver		

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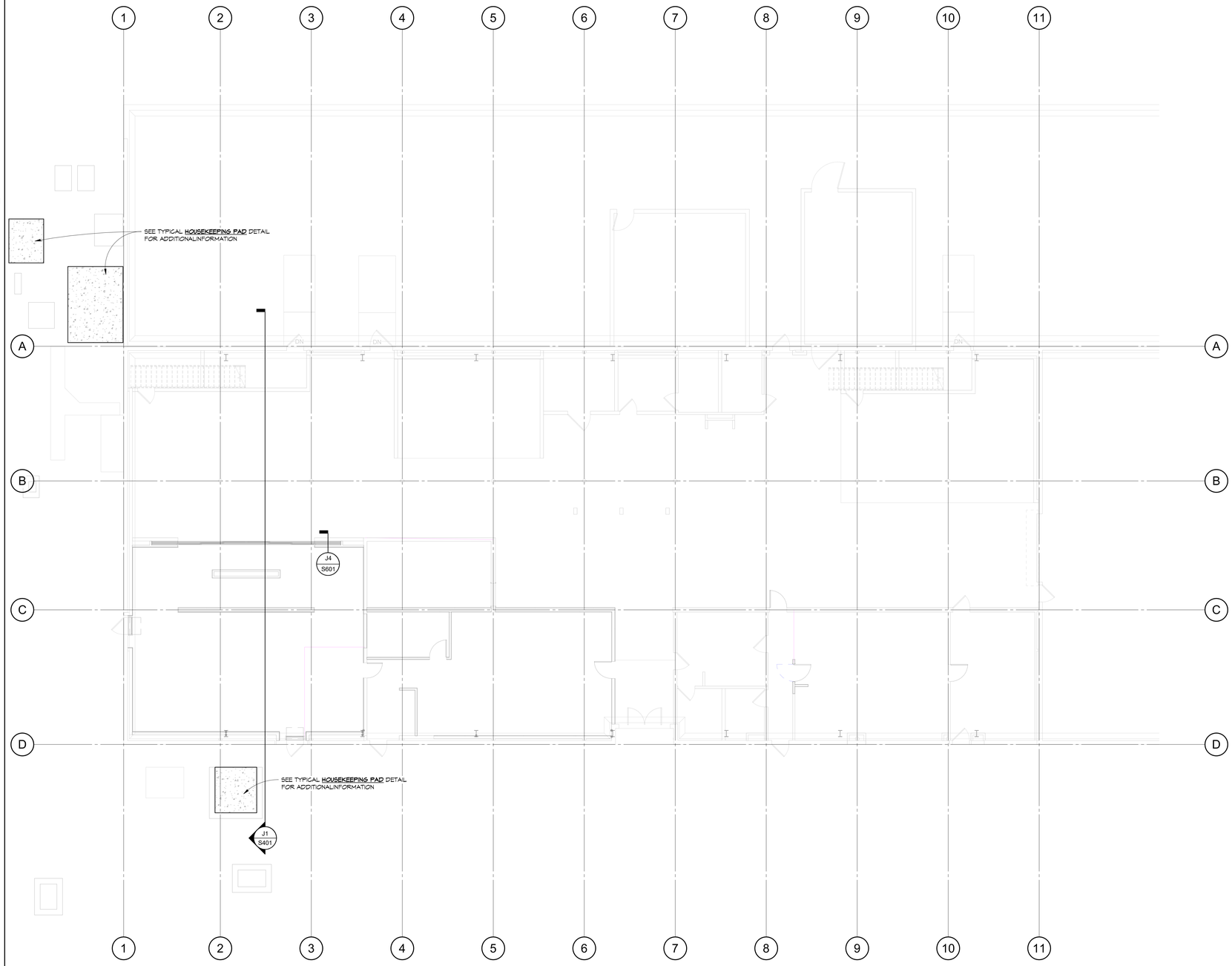

1. SEE TYPICAL SHEETS FOR ALL GENERAL AND MATERIAL NOTES, AND ALL TYPICAL SCHEDULES AND DETAILS. THE INFORMATION ON THE TYPICAL SHEETS APPLY TO THE PROJECT AND ARE NOT SPECIFICALLY REFERENCED ON PLAN WORK, UNLESS NOTED OTHERWISE. IF TYPICAL DETAILS ARE SPECIFIED ON PLANS OR NOTES, THEY WILL BE REFERENCED WITH THE WORD "TYPICAL" FOLLOWED BY **BOLD AND UNDERLINED** TEXT STATING THE TITLE OF THE TYPICAL DETAIL OR NOTE.
2. ALL 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 **LIGHT GAUGE STEEL NOTES**.
9. CONTRACTOR SHALL SUBMIT CONTROL JOINT PLAN FOR APPROVAL PRIOR TO POURING SLAB. SEE TYPICAL **CONTROL JOINT** DETAIL FOR ADDITIONAL INFORMATION.
10. ALL TOP OF FOOTINGS SHALL BE **1'-0"** BELOW FINISH SLAB, UNLESS NOTED OTHERWISE.
11. ALL ITEMS ARE NEW UNLESS NOTED OTHERWISE.

N14 STEEL FOUNDATION NOTES

S201 NOT TO SCALE

STEEL STUDS. AT EXTERIOR WALL LOCATIONS, PROVIDE 600S162-54 @ 16" O.C. U.N.O. SEE TYPICAL **BEARING AND EXTERIOR WALL FRAMING AT OPENINGS FOR LIGHT GAUGE STEEL** DETAIL. AT INTERIOR WALL LOCATIONS, SEE ARCHITECTURAL AND TYPICAL **INTERIOR NON-BEARING WALL FRAMING AT OPENINGS FOR LIGHT GAUGE STEEL** DETAIL.

WALL BELOW. SEE FRAMING PLAN AT LEVEL BELOW.

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

T.O.S. +X'-X" — TOP OF STEEL (T.O.S.) OR BOTTOM OF STEEL (B.O.S.). +X'-X" IS THE DISTANCE FROM FINISHED FIRST FLOOR, UNLESS NOTED OTHERWISE.

SIZE (STUDS) / CAMBER — STEEL BEAM.

STEEL FRAME. SEE ELEVATIONS AS INDICATED FOR FRAMING SIZES AND ORIENTATION.

STEPPED FOOTING. SEE TYPICAL **STEPPED FOOTING** DETAIL.

MOMENT FRAME CONNECTION. SEE TYPICAL **MOMENT FRAME CONNECTION** DETAILS.

COLLECTOR CONNECTION. SEE TYPICAL **COLLECTOR BEAM TO GIRDER CONNECTION SCHEDULE** AND **COLLECTOR BEAM TO COLUMN CONNECTION SCHEDULE**.

BEAM SPLICE. SEE TYPICAL **BEAM SPLICE** DETAIL.

BEAM BOTTOM FLANGE BRACING. ARROW POINTS TOWARDS BOTTOM FLANGE OF BEAM BEING BRACED. SEE TYPICAL **BEAM BOTTOM FLANGE BRACING** DETAIL.

COLUMN DOES NOT EXTEND BEYOND FRAMING LEVEL BEING DEPICTED.

STEEL OR COMPOSITE DECK OPENING. SEE TYPICAL **SMALL/LARGE OPENINGS IN STEEL DECK FOR FLOOR OR ROOF DECK** DETAIL, U.N.O. VERIFY ALL OPENINGS WITH ARCHITECTURAL AND MECHANICAL PLANS.

DEPRESSED SLAB. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

COMPOSITE DECK. INDICATES DIRECTION OF DECKING. SEE TYPICAL **STEEL FLOOR DECK NOTES** AND TYPICAL **DECK ATTACHMENT LAYOUT** DETAILS. WHERE CONSTRUCTION JOINTS OCCUR, SEE TYPICAL **CONSTRUCTION JOINTS IN CONCRETE OVER STEEL DECK** DETAIL.

STEEL DECK. INDICATES DIRECTION OF DECKING. SEE TYPICAL **STEEL ROOF DECK NOTES** AND TYPICAL **DECK ATTACHMENT LAYOUT** DETAILS.

CONCRETE SLAB. PROVIDE 4" THICK MINIMUM SLAB WITH #3 @ 15" O.C. EACH WAY, U.N.O. SEE TYPICAL **FOUNDATION AND CONCRETE NOTES** AND ARCHITECTURAL DRAWINGS FOR SUB-GRADE AND VAPOR BARRIER INFORMATION.

E14 STEEL LEGEND

S201 NOT TO SCALE

DSA File No.:

DSA Application No.:

Agency Approval

General Notes

BrooksRansom ASSOCIATES
7485 N. PALM AVE. STE 100 | FRESNO, CA 93711
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24134

REGISTERED PROFESSIONAL ENGINEER — GAYLORD R. RANSOM — No. S2386 — EXPIRES 12-31-2024 — STRUCTURAL — STATE OF CALIFORNIA

CHILD NUTRITION KITCHEN
MADERA UNIFIED SCHOOL DISTRICT
769 S. PINE. ST. MADERA, CA 93637
Project

FOUNDATION PLAN
Drawing

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

LICENSED ARCHITECT — ANTONIO J. AVILA — No. C26235 — REN. 10-31-25 — STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed Designer	Copyright Darden Architects
Scale: As indicated	Drawn By: Author	S201
Project Number: 2310	Checked IChecker	
Date: 2024-07-25	ReviewedApprover	

A1 FOUNDATION PLAN

S401 S201 1/8" = 1'-0"

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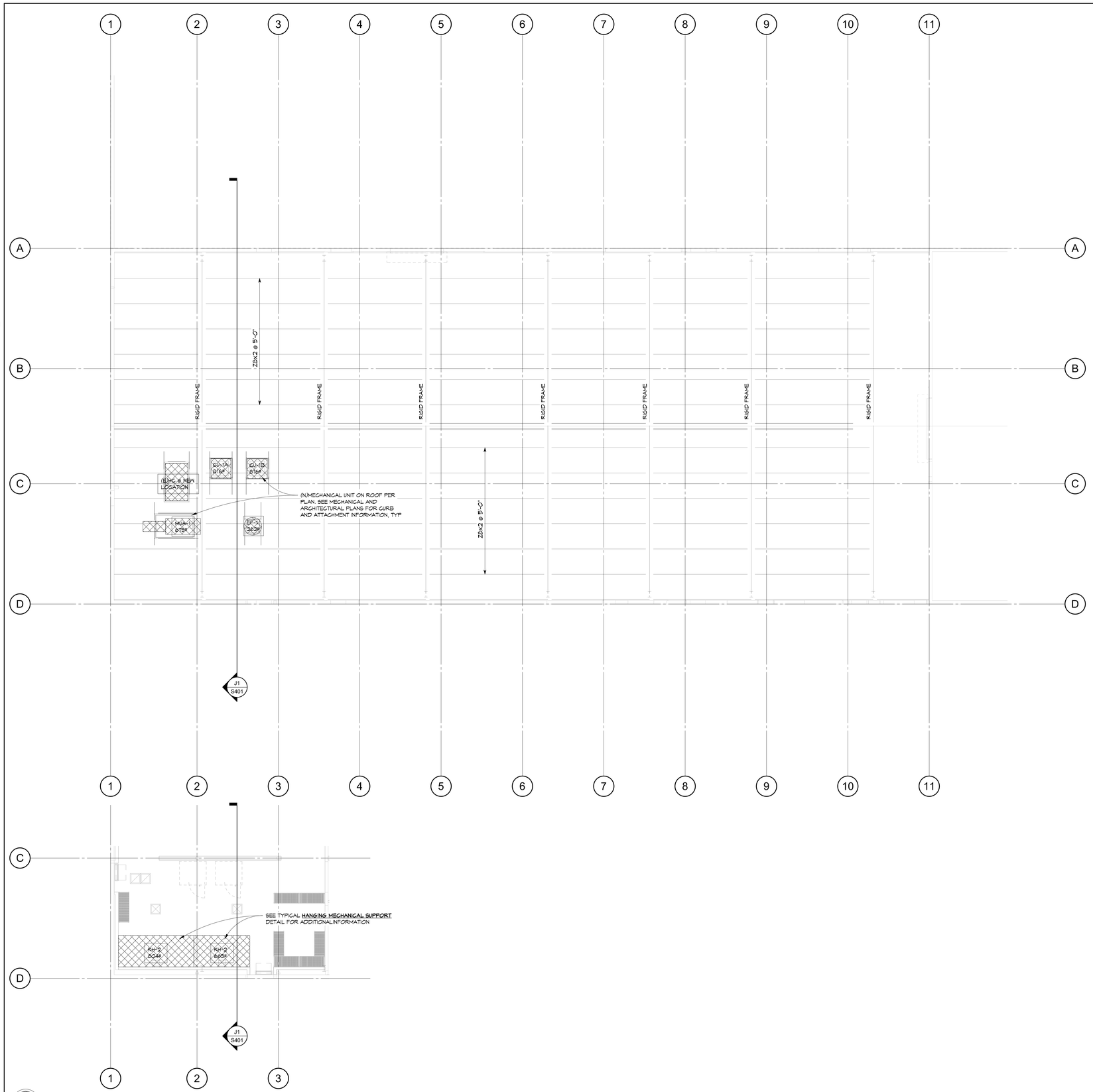

PARTIAL SECOND FLOOR PLAN @ KITCHEN HOODS

A1	ROOF FRAMING PLAN
S401 S301	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 UNCLEAR AND/OR MISSING DETAILS SHALL BE BROUGHT TO THE STRUCTURAL ENGINEER'S ATTENTION BEFORE PROCEEDING WITH CONSTRUCTION.
3. ALL TOP OF FRAMING ABOVE FINISH SLAB VARIES, SEE PLAN FOR INFORMATION.
4. VERIFY ROOF SLOPE(S) WITH ARCHITECTURAL PLANS.
5. SEE TYPICAL **MECHANICAL UNIT ATTACHMENT** 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.
6. AT OPENINGS IN DECKING SEE TYPICAL **OPENINGS IN STEEL DECK** DETAILS FOR INFORMATION, UNLESS NOTED OTHERWISE. VERIFY OPENING SIZE AND LOCATION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
7. FOR FRAMING AT DRAINS, SEE TYPICAL **LARGE OPENINGS IN STEEL DECK** DETAIL AND INFORMATION ON PLANS.
8. FOR ALL STEEL TO STEEL CONNECTIONS SEE TYPICAL **BEAM-TO-COLUMN CONNECTION** AND **BEAM-TO-GIRDER CONNECTION** SCHEDULES.
9. THE FIRST SHEET OF STEEL DECKING ADJACENT AND PARALLEL TO CHORDS, COLLECTORS AND BRACED FRAME LINES (BOTH SIDES IF APPLICABLE) SHALL BE A FULL WIDTH SHEET. PROVIDE 2 ROWS OF PUDDLE WELDS AT ALL INTERIOR LATERAL RESISTING FRAME LINES.
10. ALL CHORD & COLLECTOR BEAMS TO BE INSTALLED PRIOR TO WELDING OF METAL DECKING.
11. BEAMS ARE EQUALLY SPACED BETWEEN MAIN BEAMS OR COLUMNS, U.N.O.
12. ALL ITEMS ARE NEW UNLESS NOTED OTHERWISE.

N14	STEEL FRAMING NOTES
S301	NOT TO SCALE

STEEL STUDS. AT EXTERIOR WALL LOCATIONS, PROVIDE 600S162-54 @ 16" O.C., U.N.O. SEE TYPICAL **BEARING AND EXTERIOR WALL FRAMING AT OPENINGS FOR LIGHT GAUGE STEEL** DETAIL. AT INTERIOR WALL LOCATIONS, SEE ARCHITECTURAL AND TYPICAL **INTERIOR NON-BEARING WALL FRAMING AT OPENINGS FOR LIGHT GAUGE STEEL** DETAIL.

WALL BELOW. SEE FRAMING PLAN AT LEVEL BELOW.

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

T.O.S. +X'-X" — TOP OF STEEL (T.O.S.) OR BOTTOM OF STEEL (B.O.S.). +X'-X" IS THE DISTANCE FROM FINISHED FIRST FLOOR, UNLESS NOTED OTHERWISE.

SIZE (STUDS) / CAMBER — STEEL BEAM.

STEEL FRAME. SEE ELEVATIONS AS INDICATED FOR FRAMING SIZES AND ORIENTATION.

STEPPED FOOTING. SEE TYPICAL **STEPPED FOOTING** DETAIL.

MOMENT FRAME CONNECTION. SEE TYPICAL **MOMENT FRAME CONNECTION** DETAILS.

COLLECTOR CONNECTION. SEE TYPICAL **COLLECTOR BEAM TO GIRDER CONNECTION SCHEDULE** AND **COLLECTOR BEAM TO COLUMN CONNECTION SCHEDULE**.

BEAM SPLICE. SEE TYPICAL **BEAM SPLICE** DETAIL.

BEAM BOTTOM FLANGE BRACING. ARROW POINTS TOWARDS BOTTOM FLANGE OF BEAM BEING BRACED. SEE TYPICAL **BEAM BOTTOM FLANGE BRACING** DETAIL.

COLUMN DOES NOT EXTEND BEYOND FRAMING LEVEL BEING DEPICTED.

STEEL OR COMPOSITE DECK OPENING. SEE TYPICAL **SMALL/LARGE OPENINGS IN STEEL DECK FOR FLOOR OR ROOF DECK** DETAIL, U.N.O. VERIFY ALL OPENINGS WITH ARCHITECTURAL AND MECHANICAL PLANS.

DEPRESSED SLAB. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

COMPOSITE DECK. INDICATES DIRECTION OF DECKING. SEE TYPICAL **STEEL FLOOR DECK NOTES** AND TYPICAL **DECK ATTACHMENT LAYOUT** DETAILS. WHERE CONSTRUCTION JOINTS OCCUR, SEE TYPICAL **CONSTRUCTION JOINTS IN CONCRETE OVER STEEL DECK** DETAIL.

STEEL DECK. INDICATES DIRECTION OF DECKING. SEE TYPICAL **STEEL ROOF DECK NOTES** AND TYPICAL **DECK ATTACHMENT LAYOUT** DETAILS.

CONCRETE SLAB. PROVIDE 4" THICK MINIMUM SLAB WITH #3 @ 18" O.C. EACH WAY, U.N.O. SEE TYPICAL **FOUNDATION AND CONCRETE NOTES** AND ARCHITECTURAL DRAWINGS FOR SUB-GRADE AND VAPOR BARRIER INFORMATION.

E14	STEEL LEGEND
S301	NOT TO SCALE

DSA File No.:

DSA Application No.:

Agency Approval

General Notes

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REGISTERED PROFESSIONAL ENGINEER — STAFFORD R. RANSOM — No. S7386 — EXPIRES 6/30/2026 — CIVIL — STATE OF CALIFORNIA

CHILD NUTRITION KITCHEN
MADERA UNIFIED SCHOOL DISTRICT
769 S. PINE. ST. MADERA, CA 93637
Project

ROOF FRAMING PLAN
Drawing

darden architects
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PLANNING
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6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051
LICENSED ARCHITECT — ANTONIO J. AVILA — No. C26235 — Exp. 10-31-25 — STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

	Designed Designer	Copyright	Darden Architects
Scale: As indicated	Drawn By: Author		
Project Number: 2310	Checked Checker		S301
Date: 2024-07-25	Reviewed Approver		

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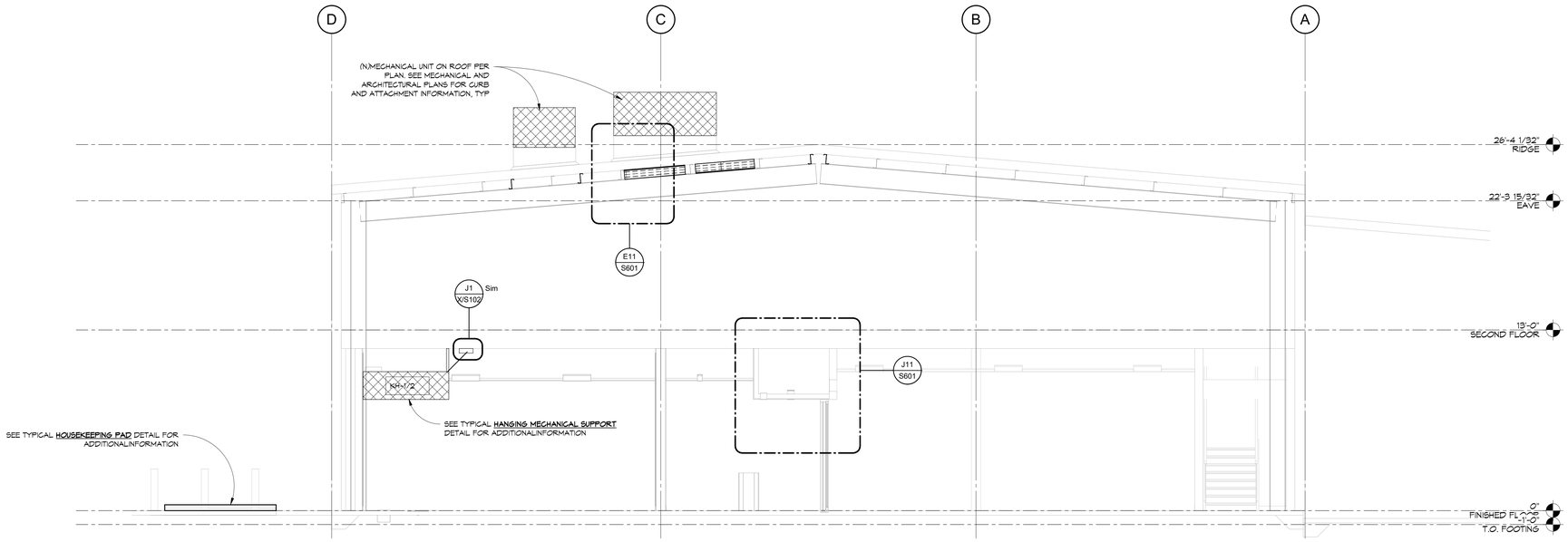

J1 SECTION

S201 | S401

1/4" = 1'-0"

DSA File No.:

DSA Application No.:

Agency Approval

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Project

SECTIONS

Drawing

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STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed Designer	Copyright Darden Architects
Scale: 1/4" = 1'-0"	Drawn By: Author	S401
Project Number: 2310	Checked IChecker	
Date: 2024-07-25	ReviewedApprover	

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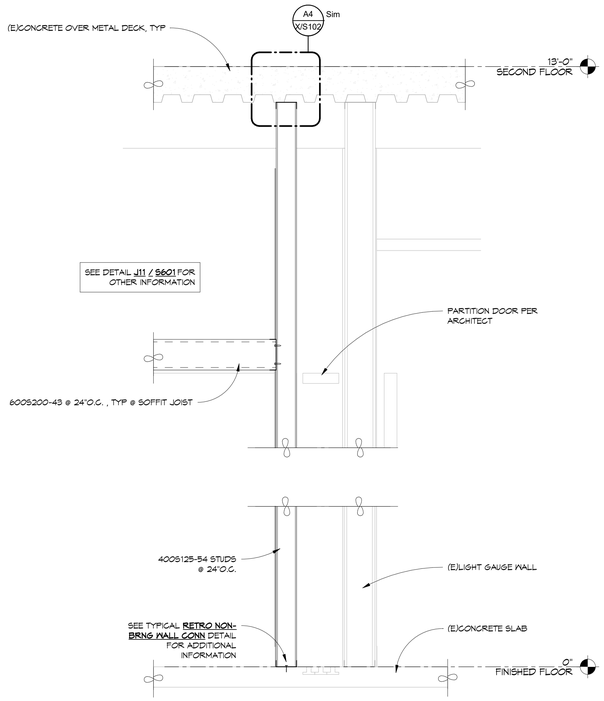
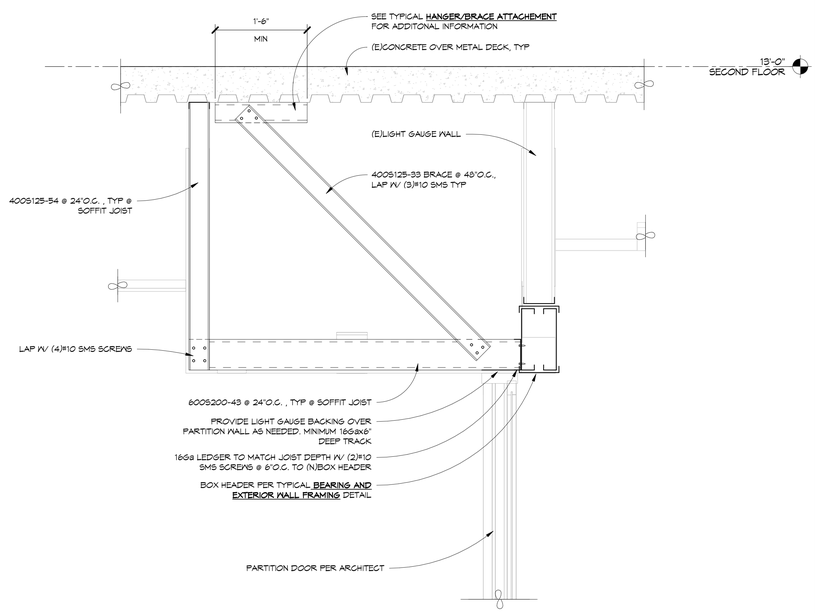


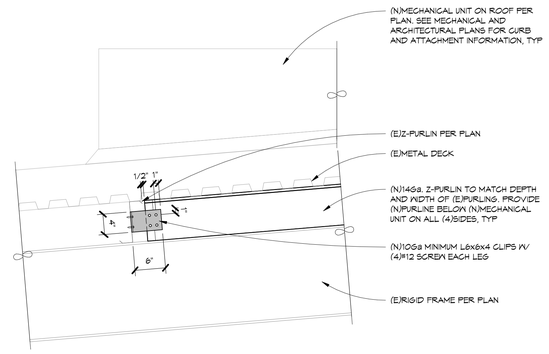
J4 DETAIL

S201 S601 1" = 1'-0"



J11 DETAIL

S401 S601 1" = 1'-0"



E11 DETAIL

S601 NOT TO SCALE

DSA File No.:

DSA Application No.:

Agency Approval

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Architect

No.	Revision/Submission	Date

Revision

	Designed Designer	Copyright Darden Architects
Scale: 1" = 1'-0"	Drawn By: Author	S601
Project Number: 2310	Checked IChecker	
Date: 2024-07-25	ReviewedApprover	

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MECHANICAL SCHEDULES

KITCHEN HOOD SCHEDULE

DESIGNATION	KH-1	KH-2
LENGTH (IN.)	132	178
DEPTH (IN.)	74	74
HEIGHT (IN.)	24	24
TYPE	1	1
CFM	1870	2950
STATIC DROP (IN. WC)	0.9	0.916
DUCT COLLAR QTY / SIZE (IN.)	1 / 14	2 / 12
DUCT COLLAR VELOCITY (FPM)	1749	1878
FILTER FACE VELOCITY (FPM)	----	----
FILTER QTY / SIZE (IN.)	8 / 16"x16"	11 / 16"x16"
FILTER TYPE	CAPTRATE SOLO FILTER	CAPTRATE SOLO FILTER
MATERIAL	----	----
GAUGE	----	----
LIGTHING QTY / TYPE	3 / RECESSED ROUND	3 / RECESSED ROUND
LEFT END	----	----
RIGHT END	----	----
MANUFACTURER	GREASE MASTER	GREASE MASTER
MODEL NUMBER	6024 GSN-2-PSP-F	6024 GSN-2-PSP-F
CONTROL	A	A
LOCATION	KITCHEN	KITCHEN
OPER. WT (LBS)	663	804
ACCESSORIES	1	1

1. STAINLESS STEEL BAFFLE GREASE FILTERS.
2. REMOTE CONTROL PANEL. SEE KITCHEN HOOD CONTROL DIAGRAM.

MAKE-UP AIR UNIT SCHEDULE

DESIGNATION	MAU-1
CFM	3,777
EXT. SP (IN. WC)	0.5
HP / BHP	3 / 1.75
VOLTS / PHASE	208 / 3
MCA / MOCP	11.9 / 20.0
RPM	1446
INPUT (MBH)	179
OUTPUT (MBH)	164
FUEL	NATURAL GAS
MANUFACTURER	GREASEMASTER
TYPE	GAS FIRED
MODEL NUMBER	GM-A2-D.250-20D
CONTROL	NOTE 4
LOCATION	ROOF
OPER. WT. (LBS)	675
ACCESSORIES	1, 2, 3, 4, 5, 6

1. DOWN DISCHARGE.
2. INLET AND MAIFOLD GAUGES.
3. LOW FIRE STAT.
4. AC INTERLOCK RELAY (24VAC). INTERLOCK WITH KITCHEN HOOD CONTROL PANEL.
5. MOTORIZED BACKDRAFT DAMPER.
6. THE UNIT AND ITS COMPONENTS AND ACCESSORIES SHALL BE OUTDOOR RATED. ALL ELECTRICAL AND CONTROL PANELS SHALL BE IN NEMA-4X STEEL ENCLOSURES.

FLY FAN SCHEDULE

DESIGNATION	FF-1
CFM	900
FPM (AT NOZZLE)	1800
MOTOR QTY/HP	1 / 1/6
VOLTS / PHASE	208-230 / 3
FLA / MCA	1.2 / 1.5
DRIVE	BELT
MOUNTING	WALL
MANUFACTURER	MARS
TYPE	UNHEATED
MODEL NUMBER	LPV236-1UD-OB
CONTROL	DOOR SWITCH
SERVICE	KITCHEN
OPER. WT. (LBS)	32
ACCESSORIES	1,5,6

1. PROVIDE UNIT MOUNTED VARIABLE SPEED SWITCH AND DOOR SWITCH.
2. PROVIDE UNIT WITH VARIABLE SPEED SWITCH WITH FLOOR MOUNTED INDUSTRIAL MAGNETIC SWITCH AND RECESSED JUNCTION BOX.
3. PROVIDE WITH MODEL B0041 TRANSOM MOUNTING BRACKET.
4. PROVIDE WITH EXTENDED ADJUSTABLE MOUNTING BRACKET FOR INSTALLATION OVER DRUM-STYLE ROLL-UP DOOR.
5. ETL SANITATION CERTIFIED.
6. PROVIDE WITH 304 SS SEVERE DUTY HOUSING CONSTRUCTION FOR WASH DOWN. ALL ELECTRICAL AND CONTROL PANELS SHALL BE IN NEMA-4X EXCLOSURES.
7. PROVIDE WITH PEARL WHITE COLOR FINISH, OR COLOR AS SELECTED BY ARCHITECT.
8. PROVIDE WITH OBSIDIAN BLACK COLOR FINISH, OR COLOR AS SELECTED BY ARCHITECT.

GRILLE SCHEDULE

MARK	DUTY	DESCRIPTION
A	LAY-IN SUPPLY	TITUS MODEL PMC (TYPE 3) PERFORATED CORE STEEL DIFFUSER FOR LAY-IN TILE CEILING, STANDARD PERFORATED FACE, FIELD REPOSITIONABLE FIXED LOUVER CORES, SQUARE NECK, WHITE FINISH.
B	LAY-IN RETURN	TITUS MODEL PMR (TYPE 3) RETURN FOR LAY-IN TILE CEILING, STANDARD PERFORATED FACE, SQUARE/ROUND NECK, WHITE FINISH.
C	SURFACE MOUNT SUPPLY	TITUS MODEL 1700L SUPPLY FOR SURFACE MOUNTING. 5° DEFLECTION, EXTRUDED ALUMINIUM CONSTRUCTION.

CONDENSING UNIT SCHEDULE

DESIGNATION	CU-1A	CU-1B
VOLTS / PHASE	208 / 3	208 / 3
FLA / RLA	69.30 / 294.00	69.30 / 294.00
EER	--	--
COOLING CAP. (MBH)	10.26	10.26
REFRIGERANT	R404A	R404A
AMBIENT (°F)	108	108
MANUFACTURER	IRINOX	IRINOX
TYPE	-	-
MODEL NUMBER	MF 250.2	MF 250.2
LOCATION	ROOF	ROOF
OPER. WT. (LBS)	815.85	815.85
SERVICE	BLAST CHILLER	BLAST CHILLER

EXHAUST FAN SCHEDULE

DESIGNATION	EF-1
CFM	4820
EXT. SP (IN. WC)	1.25
HP / BHP	5.00 / 2.04
VOLTS / PHASE	208 / 3
FLA	15
RPM	886
TIP SPEED / SONES	--- / 15.4
DRIVE	DIRECT
MOUNTING	CURB
MANUFACTURER	GREASE MASTER
TYPE	UPBLAST
MODEL NUMBER	GMDU240H
CONTROL	----
LOCATION	ROOF
SERVICE	KITCHEN
OPER. WT. (LBS)	262
ACCESSORIES	1, 2, 3

1. PROVIDE BACKDRAFT DAMPER, ROUND DUCT CONNECTOR.
2. PROVIDE WITH GREASE BOX AND GREASE DRAIN.
3. PROVIDE WITH LOOSE VFD, PREMIUM EFFECIENCY.

GENERAL NOTES

1. COORDINATION OF WORK: LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY.
2. THE ACTUAL LOCATION OF ALL MATERIALS, PIPING, DUCTWORK, FIXTURES, EQUIPMENT, SUPPORTS, ETC. SHALL BE CAREFULLY PLANNED, PRIOR TO INSTALLATION OF ANY WORK TO AVOID ALL INTERFERENCES WITH EACH OTHER, OR WITH STRUCTURAL, ELECTRICAL, ARCHITECTURAL OR OTHER ELEMENTS.
3. 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.
4. PROVIDE ALL DUCT TRANSITION PIECES AND FITTINGS REQUIRED TO ACCOMMODATE MECHANICAL EQUIPMENT CONNECTIONS, STRUCTURE, ARCHITECTURAL ELEMENTS, AND CHANGES IN DUCT SIZES.
5. ALL DUCTWORK SHALL BE CONSTRUCTED, ERECTED AND TESTED IN ACCORDANCE WITH THE STANDARDS ADOPTED BY SMACNA AND CHAPTER 6 OF THE 2019 CMC.
6. ALL DUCTWORK AND PIPING SHALL BE INSULATED CONSISTENT WITH THE REQUIREMENTS OF 2019 CMC. INSULATION MATERIALS SHALL MEET THE CALIFORNIA QUALITY STANDARD PER SECTION 110.8, 120.3, AND 120.4 OF THE 2019 CALIFORNIA ENERGY CODE.
7. ALL DUCT SIZES SHOWN ARE NET INSIDE DIMENSIONS.
8. DUCTWORK SHALL BE SHEET METAL CONSTRUCTED IN COMPLETE CONFORMANCE WITH CMC LATEST EDITION, CHAPTER 6 AND THE LATEST SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
9. ALL DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS PRIOR TO ANY CONSTRUCTION, INCLUDING ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENT SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR THE OWNER REPRESENTATIVE.
10. PROVIDE VOLUME DAMPERS IN ALL BRANCH DUCTS (SUPPLY, RETURN, O.S.A. AND EXHAUST) FOR SYSTEM BALANCING.
11. HANDLE, STORE AND INSTALL ALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS AND AS DIRECTED IN THE PROJECT MANUAL.
12. ALL AIR SYSTEMS SHALL BE TESTED, ADJUSTED AND BALANCED TO MEET THE REQUIRED FLOW. TAB METHODOLOGY SHALL BE SUBMITTED TO OWNER REPRESENTATIVE PRIOR TO IMPLEMENTATION AND IN ACCORDANCE WITH PROJECT SEQUENCING.
13. LEAN CONCRETE SHALL BE USED AS BACK FILL WHERE UTILITY TRENCHES EXTEND FROM THE EXTERIOR TO THE INTERIOR LIMITS OF THE BUILDING. LEAN CONCRETE SHALL EXTEND A MINIMUM DISTANCE OF TWO (2) FEET LATERALLY ON EACH SIDE OF THE EXTERIOR BUILDING LINE AND A MINIMUM OF SIX (6) INCHES ABOVE FOOTING PENETRATION.
14. ALL PLUMBING FIXTURES AND PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS ADOPTED BY THE 2022 CPC.

ANCHORAGE & BRACING NOTES

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 DISCPLACEMENT 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 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.

MECHANICA PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MD [X] MP [X] PP [ ] E [ ] - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MD [ ] MP [ ] PP [ ] E [ ] - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) # ______.

LEGEND

SYMBOL	ITEM	ABBR.
	ABOVE	ABV
	ABOVE CEILING	ABV CLG
	ABOVE FINISHED FLOOR	AFF
	ALTERNATE	ALT
	AIR CONDITIONING	AC
	AIR FLOW STATION	AFS
	AIR HANDLER UNIT	AHU
	ANALOG INPUT	AI
	ANALOG OUTPUT	AO
&	AND	
	ARCHITECT / ARCHITECTURAL	ARCH
@	AT	
	BACKDRAFT DAMPER	BDD
	BELOW FINISH CEILING	BFC
	BELOW FLOOR	BEL FLR
	BELOW GRADE	BEL GR
	BLIND FLANGE	BLF
	BRITISH THERMAL UNIT	BTU
	BRITISH THERMAL UNIT PER HOUR	BTUH
	CALIFORNIA MECHANICAL CODE	CMC
	CALIFORNIA PLUMBING CODE	CPC
	CEILING	CLG
℄	CENTER LINE	
	CONTINUATION	CONT
	CUBIC FEET OF AIR PER MINUTE	CFM
	CURRENT SENSOR	CS
Φ	DIAMETER	DIA
	DIFFERENTIAL PRESSURE SWITCH	DPS
	DIGITAL INPUT	DI
	DIGITAL OUTPUT	DO
	DOWN	DN
	DRAWING	DWG
	ELECTRICAL	ELEC
	ELBOW	ELL
	EXHAUST	EXH
	EXHAUST AIR	EA
	EXHAUST FAN	EF
	EXISTING	(E)
	FEET	FT
	FLOOR	FLR
	FLOW LINE	FL
	FLOW SWITCH	FS
	GAUGE	GA
	GALLON	GAL
	GALLONS PER HOUR	GPH
	GALLONS PER MINUTE	GPM
	INSIDE DIAMETER	ID
	MAKE-UP AIR UNIT	MAU
	MAXIMUM	MAX
	MINIMUM	MIN
	NEW	(N)
	NOT IN CONTRACT	NIC
	NOT TO SCALE	NTS
#	NUMBER	NO.
	OUTSIDE AIR	OSA
	OUTSIDE DIAMETER	OD
	POUNDS	LBS
	POUNDS PER SQUARE INCH	PSI
	POUNDS PER SQUARE INCH ABSOLUTE	PSIA
	POUNDS PER SQUARE INCH GAUGE	PSIG
	POLYVINYL CHLORIDE	PVC
	PRESSURE STATION	PS
	RETURN AIR	RA
	ROOM	RM
	SUPPLY AIR	SA
	SPECIFICATION	SPEC
	SQUARE FEET	SQ FT
	STAINLESS STEEL	SS
	TEMPERATURE	TEMP
	TEMPERATURE SENSOR	TS
	THROUGH	THRU
	TYPICAL	(TYP)
	UNDER GROUND	U/G
	VARIABLE AIR VOLUME UNIT	VAV
	WITH	W/
	WITHOUT	W/O
—BD—	BOILER BLOWDOWN	
—BF—	BOILER FEED	
—CF—	CHEMICAL FEED	
—A—	COMPRESSED AIR	A
—CHWS—	CHILLED WATER SUPPLY	CHWS
—CHWR—	CHILLED WATER RETURN	CHWR
—CWS—	CONDENSER WATER SUPPLY	CWS
—CWR—	CONDENSER WATER RETURN	CWR
—CW—	DOMESTIC COLD WATER	
—HWS—	HEATING HOT WATER SUPPLY	HWS
—HWR—	HEATING HOT WATER RETURN	HWR
—RD—	REFRIGERANT DISCHARGE	RD
—RL—	REFRIGERANT LIQUID	RL
—RS—	REFRIGERANT SUCTION	RS
—SCW—	SOFT COLD WATER	
—S—	STEAM SUPPLY	S

SYMBOL	ITEM	ABBR.
—CR—	STEAM CONDENSATE RETURN	CR
—SBD—	SURFACE BLOWDOWN	
—D—	DRAIN	D
	PIPING CAP	
	EXISTING (DESIGNATED)	(E)
	REMOVE / DEMO EXISTING (DESIGNATED)	
	DIRECTION OF FLOW	
	SUPPLY AIR	SA
	RETURN AIR	RA
	EXHAUST AIR	EA
	PIPE/DUCT TURN DOWN	
	PIPE/DUCT TURN UP	
	ROUND DUCT (SMALLER THAN 10") Φ	
	ROUND FLEXIBLE DUCT	
	RECTANGULAR OR ROUND DUCT (10"Φ AND LARGER)	
	EXISTING DUCT (DESIGNATED)	
	REMOVE/ DEMO EXISTING DUCT (DESIGNATED)	
	DUCT WITH ACOUSTIC LINING	
	SUPPLY AIR DUCT DROP	
	SUPPLY AIR DUCT RISE	
	RETURN AIR DUCT DROP	
	RETURN AIR DUCT RISE	
	EXHAUST AIR DUCT DROP	
	EXHAUST AIR DUCT RISE	
	OUTSIDE AIR DUCT DROP	
	OUTSIDE AIR DUCT RISE	
	TURNING VANES	TV
	EXTRACTOR	
CO	CO_2 SENSOR	
DD	DUCT DETECTOR	DD
HD	HEAT DETECTOR	HD
SD	SMOKE DETECTOR	SD
M	MOTORIZED DAMPER	
◆	FIRE DAMPER W/MOTORIZED RESET AND ACCESS DOOR	
	FIRE DAMPER WITH ACCESS PANEL OR SECURITY BARS	
-OR-▲	FIRE DAMPER WITH ACCESS PANEL	FD
-OR-■	FIRE/SMOKE DAMPER WITH ACCESS PANEL	F/SD
	VOLUME CONTROL DAMPER WITH LOCKING QUADRANT	VCD
T AC-1	THERMOSTAT; THERMOSTAT LABEL MOUNT @ +48" AFF TO TOP OF BOX EXAMPLE : THERMOSTAT FOR AC-1	T'STAT
	POINT OF CONNECTION TO EXISTING	POC
	BYPASS TIMER	BPT
	THERMOMETER	
	PRESSURE GAGE	
⬢	SECURITY BARS	
	PETE'S PLUG	
	BALANCING COCK	
	BALL VALVE	
	BUTTERFLY VALVE	
	CHECK VALVE	
	CONCENTRIC REDUCER	
	TWO-WAY CONTROL VALVE	
	FLOW SWITCH	FS
	FLEXIBLE CONNECTION	FLEX
	GATE VALVE	
	GLOBE VALVE	
	INSTRUMENT WELL	
	PLUG VALVE	
	PRESSURE RELIEF VALVE	PRV
	"Y" TYPE STRAINER	
	UNION	
1	KEYNOTE	
A 8"x8" 50 CFM	NEW GRILLE TAG EXAMPLE: MARK A NECK SIZE: 8"x8" / 50 CFM AIRFLOW	
EF 8	NEW EQUIPMENT TAG EXAMPLE: DESCRIPTION EF, MARK NUMBER 8	
2 M202	DETAIL REFERENCE EXAMPLE: DETAIL 2, SHEET M202	
3 M400	SECTION REFERENCE EXAMPLE: SECTION 3, SHEET M400	

MECHANICAL SHEET INDEX

DSA File No.:
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DSA Application No.:
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General Notes

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REGISTERED PROFESSIONAL ENGINEER JONATHAN C. SCHLUNDT M35955 Exp. 06-30-20 MECHANICAL STATE OF CALIFORNIA
Consultant

Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637
Project

MECHANICAL SCHEDULES, LEGENDS, AND NOTES
Drawing

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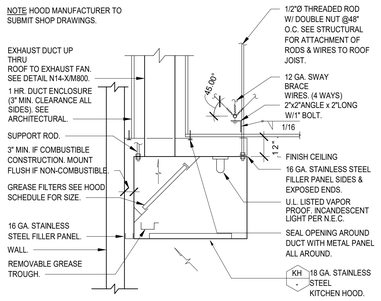
LICENSED ARCHITECT ANTONIO J. AVILA No. C26235 Ren. 10-31-23 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

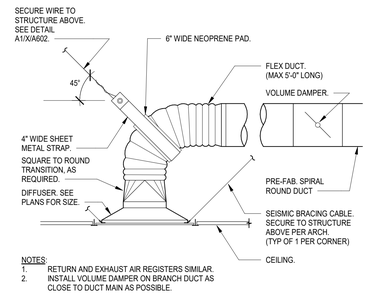
	DesMECHANICAL SHEET INDEX	
Scale: 12" = 1'-0"	Drawn By: Author	X/M001
Project Number: 2310	Checked [Checker	
Date: xx/xx/xx	ReviewerApprover	

NOTE HOOD MANUFACTURER TO SUBMIT SHOP DRAWINGS.



N7 KITCHEN HOOD INSTALLATION

N.T.S.

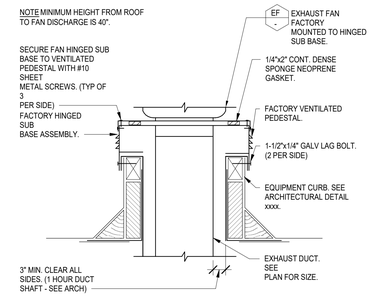


NOTES:
1. RETURN AND EXHAUST AIR REGISTERS SIMILAR.
2. INSTALL VOLUME DAMPER ON BRANCH DUCT AS CLOSE TO DUCT MAIN AS POSSIBLE.

N11 CEILING GRILLE

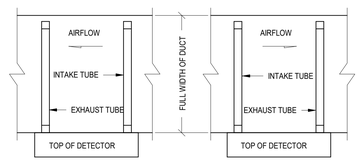
N.T.S.

NOTE MINIMUM HEIGHT FROM ROOF TO FAN DISCHARGE IS 40".

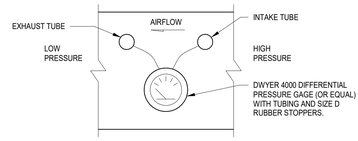


N14 KITCHEN EXHAUST FAN ON VENTED HOOD

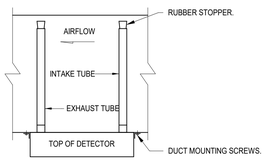
N.T.S.



SAMPLING TUBE ORIENTATION



AIR SAMPLING VERIFICATION

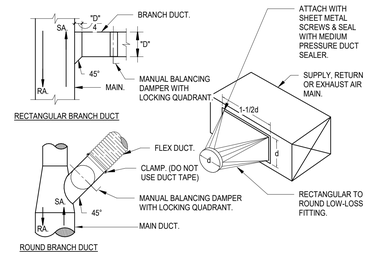


DETECTOR MOUNTING

NOTES:
1. MOUNT DUCT DETECTOR IN SA DUCT UPSTREAM OF BRANCH TAKE-OFFS.
2. UPON DETECTION OF SMOKE UNITS SHALL BE SHUT-DOWN AUTOMATICALLY.
3. PROVIDE INTERLOCKS TO SHUT DOWN UNIT AS REQUIRED.
4. PROVIDE INTERLOCKS TO ACTIVATE ALARM SYSTEM PER CMC 608.

E7 DUCT DETECTOR

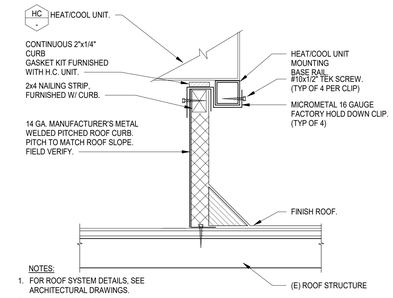
N.T.S.



NOTE: ALL BRANCH TAKE-OFFS SHALL HAVE A LOW LOSS FITTING WHETHER SHOWN ON THE FLOOR PLAN OR NOT.

J11 DUCT BRANCH CONNECTIONS

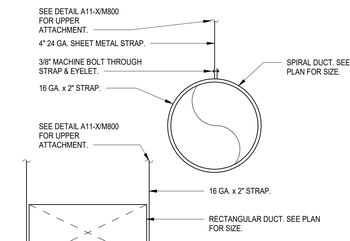
N.T.S.



NOTES:
1. FOR ROOF SYSTEM DETAILS, SEE ARCHITECTURAL DRAWINGS.
2. SEE STRUCTURAL DETAIL xxxxx FOR CURB ATTACHMENT.

J14 PACKAGE UNIT ON METAL CURB

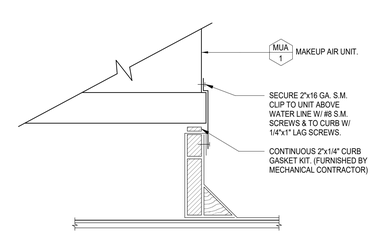
N.T.S.



NOTES:
1. PROVIDE BRACING FOR ROD LENGTHS OVER 12".
2. SEE SPECIFICATIONS FOR REQUIRED SPACING.

E11 DUCT SUPPORTS

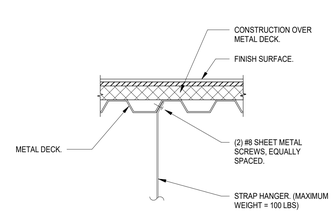
N.T.S.



NOTES:
1. FOR ROOF SYSTEM DETAILS, SEE ARCHITECTURAL DRAWINGS.
2. SEE STRUCTURAL DETAIL xxxxx FOR CURB ATTACHMENT.

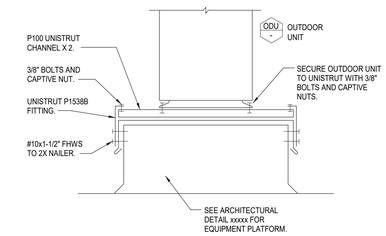
E14 MAKE-UP AIR UNIT ON CURB

N.T.S.



A11 STRAP HANGER ON METAL DECK

N.T.S.



A14 CONDENSING UNIT ON ROOF PLATFORM

N.T.S.

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JONATHAN C. SCHLOEMER — M35955 Exp. 06-30-20 — MECHANICAL — STATE OF CALIFORNIA

Consultant

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Project

MECHANICAL DETAILS

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

Architect

No.	Revision/Submission	Date

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Drawn By:
Checked fChecker
ReviewedApprover

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X/M800

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KEYNOTES

1 TEST 200

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General Notes

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Project

OVERALL MECHANICAL FLOOR PLAN

Drawing

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A1
1/8" = 1'-0"

OVERALL MECHANICAL FLOOR PLAN

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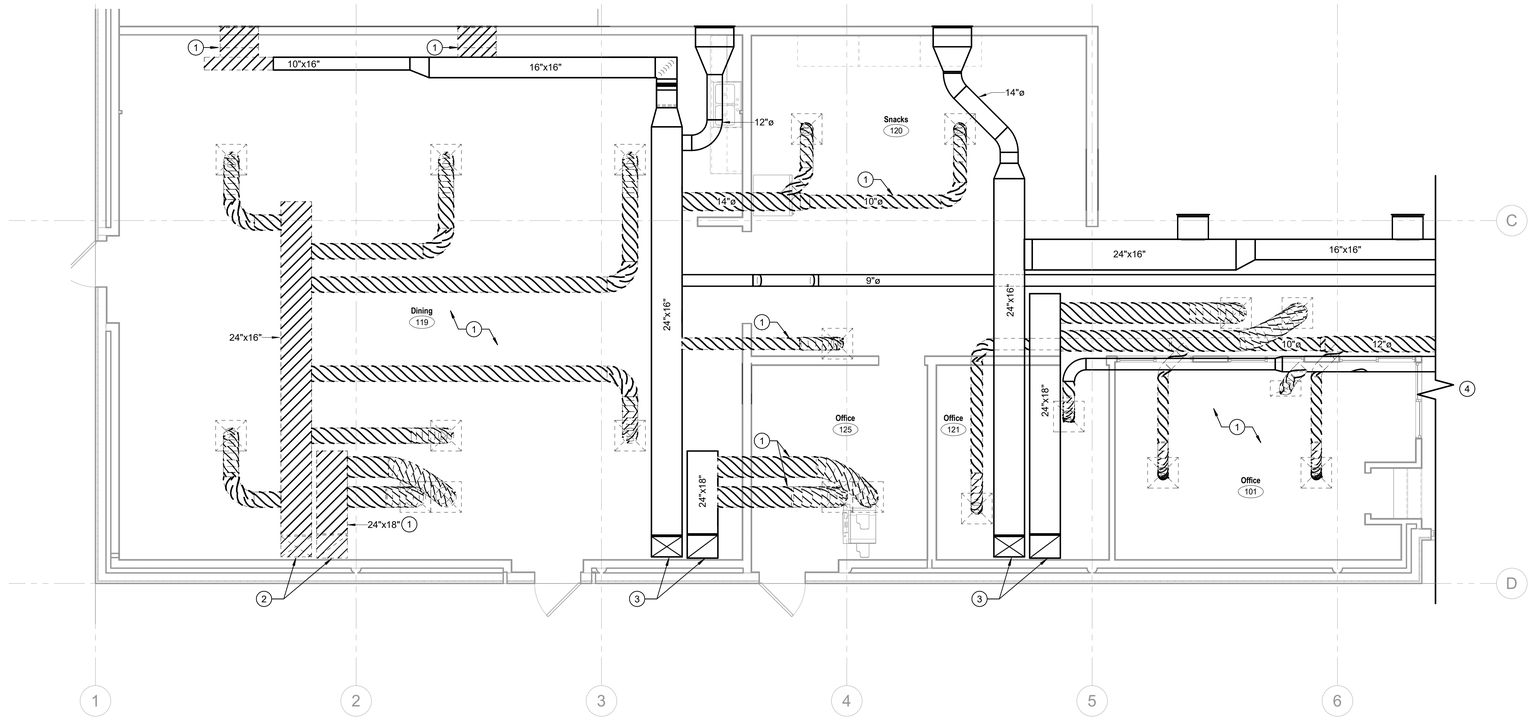
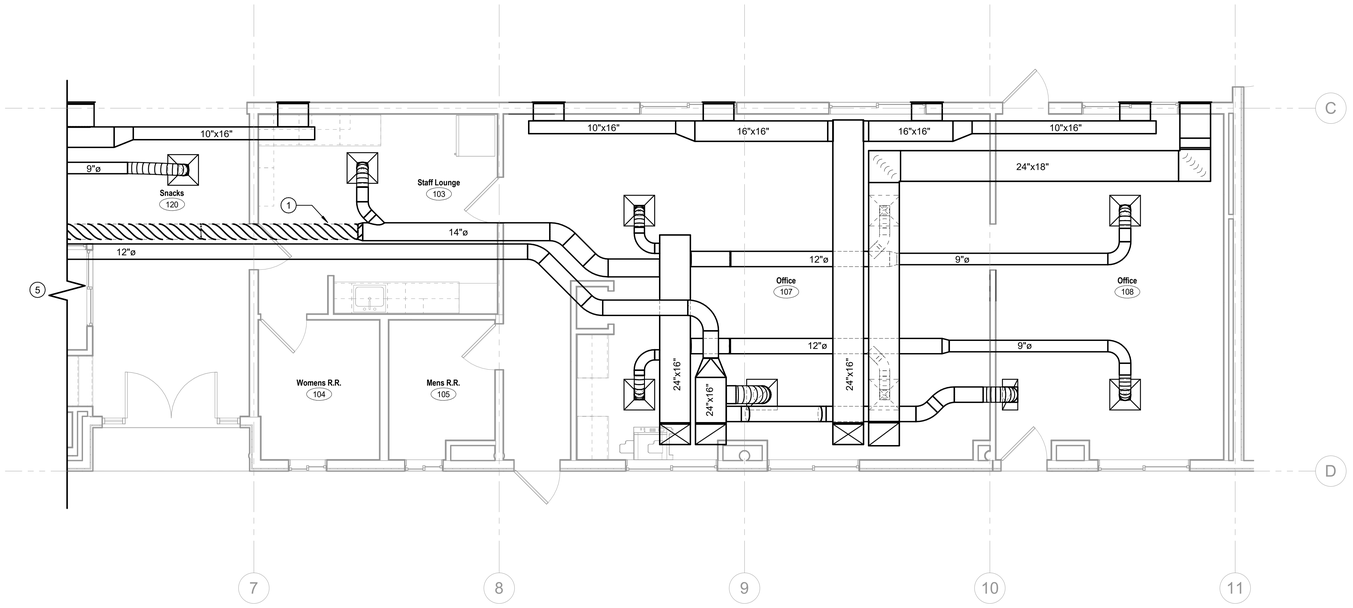


J1

1/4" = 1'-0"

MECHANICAL DEMOLITION FLOOR PLAN - NORTH



A1

1/4" = 1'-0"

MECHANICAL DEMOLITION FLOOR PLAN - SOUTH

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DSA File

DSA Application No.:
DSA App

Agency Approval

KEYNOTES (#)

1 REMOVE (E) GRILLES AND ASSOCIATED DUCTWORK WHERE SHOWN HATCHED. CAP DUCTWORK AT REMAINING CONNECTIONS.
2 DEMO (E) RISERS TO (E) HC ON ROOF. SEE J1-A/M310 FOR MEZZANINE DUCTWORK DEMOLITION PLAN.
3 (E) RISERS TO (E) HC'S ON ROOF TO REMAIN. SEE SHEET A/M500 FOR ROOF LAYOUT.
4 SEE A1-A/M301 FOR CONTINUATION.
5 SEE A1-A/M301 FOR CONTINUATION.

GENERAL NOTES

A. SEE DETAIL N11-X/M800 FOR TYPICAL CEILING GRILLE INSTALLATION.

B. SEE DETAIL J11-X/M800 FOR TYPICAL BRANCH DUCT CONNECTIONS.

C. SEE DETAIL E11-X/M800 FOR TYPICAL DUCT SUPPORTS.

General Notes

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ENLARGED MECHANICAL DEMOLITION FLOOR PLAN
Drawing

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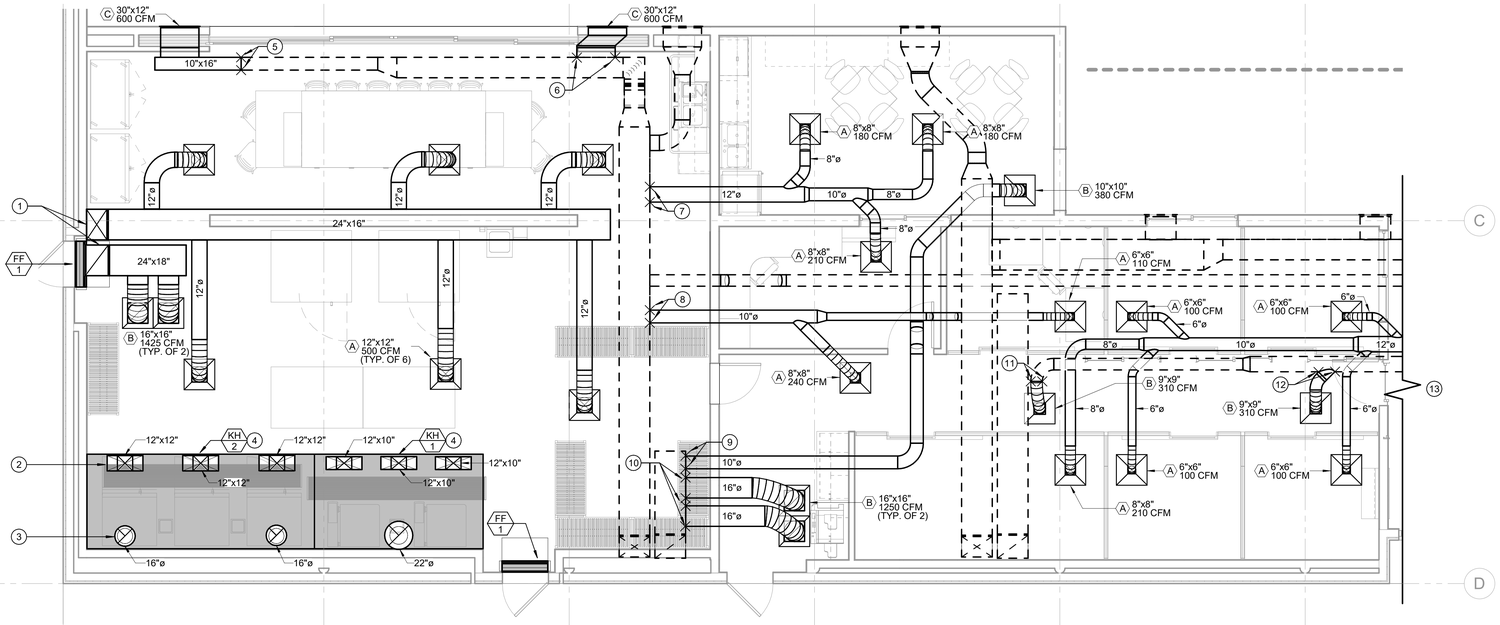
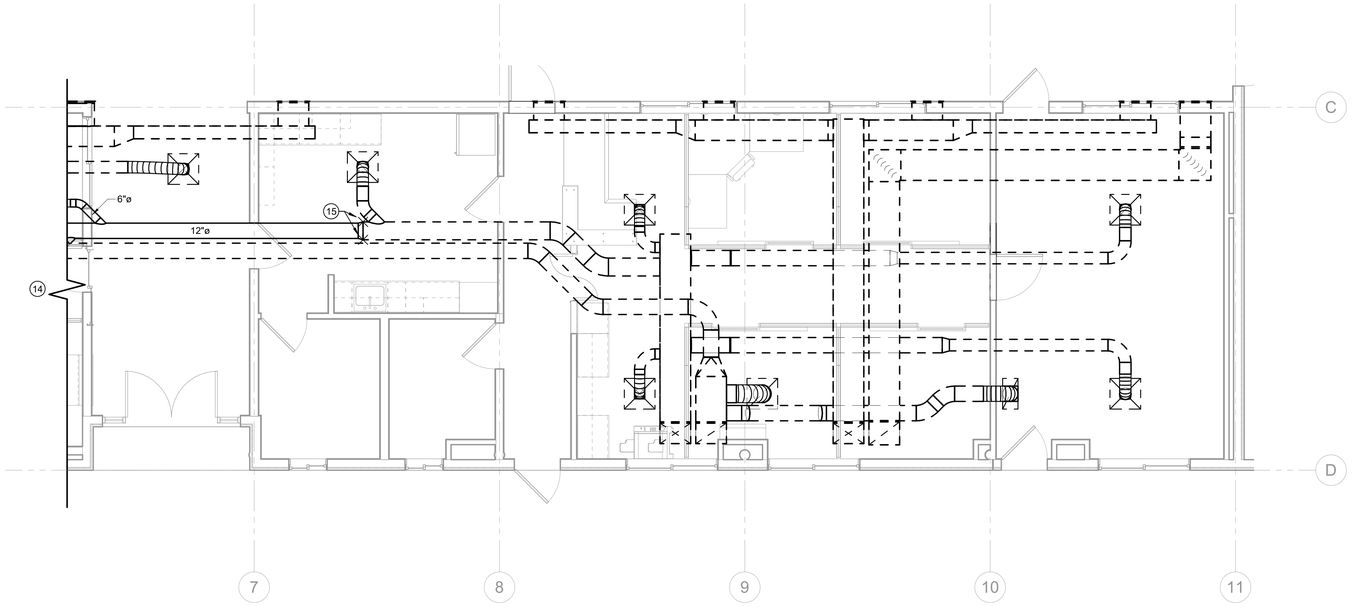
A/M301



J1 — PROPOSED MECHANICAL FLOOR PLAN - NORTH

1/4" = 1'-0"



A1 — PROPOSED MECHANICAL FLOOR PLAN - SOUTH

1/4" = 1'-0"

DSA File No.:
DSA File

DSA Application No.:
DSA App

Agency Approval

KEYNOTES (#)

1 DUCT RISERS TO (RELOCATED) HC ON ROOF. SEE A1-M310 FOR MEZZANINE ROUTING.
2 SUPPLY RISER TO (N) MUA-1 ON ROOF. SEE A1-M310 FOR MEZZANINE ROUTING. (TYP OF 6)
3 EXHAUST RISER TO (N) EF-1 ON ROOF. SEE SHEET A/M310 FOR ROUTING. (TYP OF 3)
4 (N) KITCHEN HOOD. SEE DETAIL N7-X/M800 FOR INSTALLATION.
5 POC OF (N) 10"x16" TO (E) 10"x16".
6 POC OF (N) 30"x12" TO (E) 16"x16".
7 POC OF (N) 12"Ø TO (E) 24"x16"
8 POC OF (N) 10"Ø TO (E) 24"x16"
9 POC OF (N) 10"Ø TO (E) 24"x18"
10 POC OF (N) 16"Ø TO (E) 24"x18"
11 POC OF (N) 9"Ø TO (E) 9"Ø
12 POC OF (N) 9"Ø TO (E) 12"Ø
13 SEE A1-A/M302 FOR CONTINUATION.
14 SEE J1-A/M302 FOR CONTINUATION.
15 TRANSITION (N) 12"Ø TO (E) 14"Ø

GENERAL NOTES

A. SEE DETAIL N11-X/M800 FOR TYPICAL CEILING GRILLE INSTALLATION.

B. SEE DETAIL J11-X/M800 FOR TYPICAL BRANCH DUCT CONNECTIONS.

C. SEE DETAIL E11-X/M800 FOR TYPICAL DUCT SUPPORTS.

General Notes

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Project

ENLARGED PROPOSED MECHANICAL FLOOR PLAN
Drawing

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A/M302

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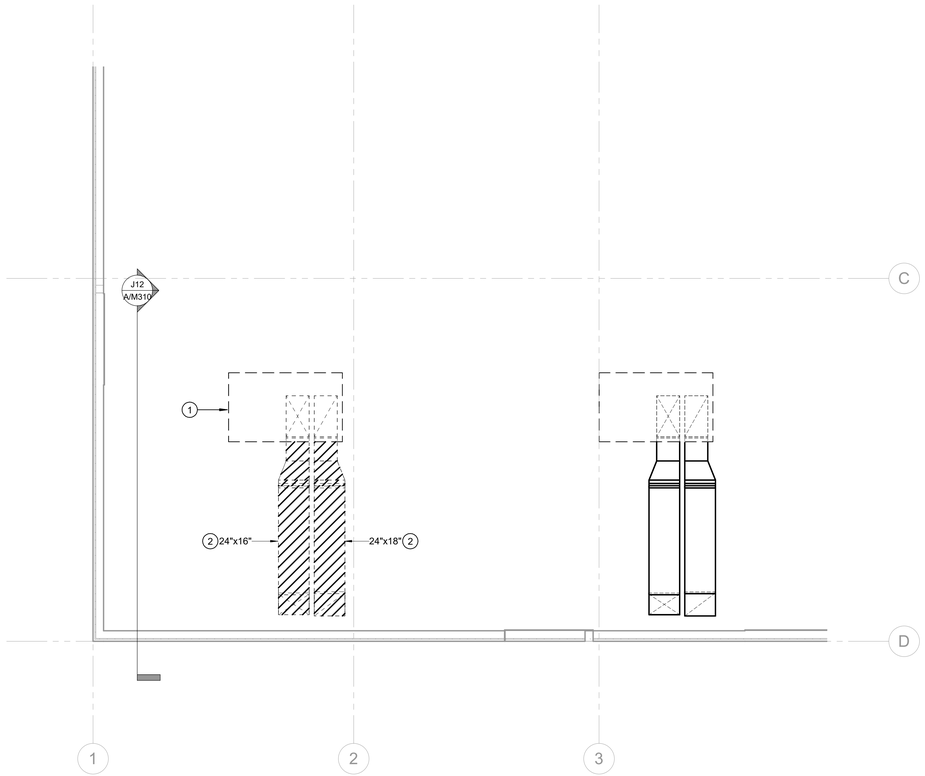
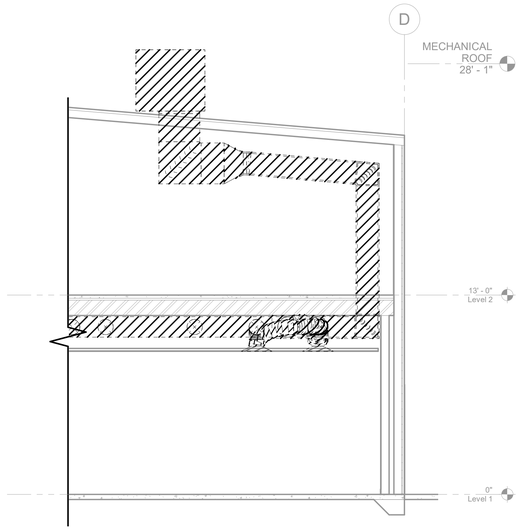


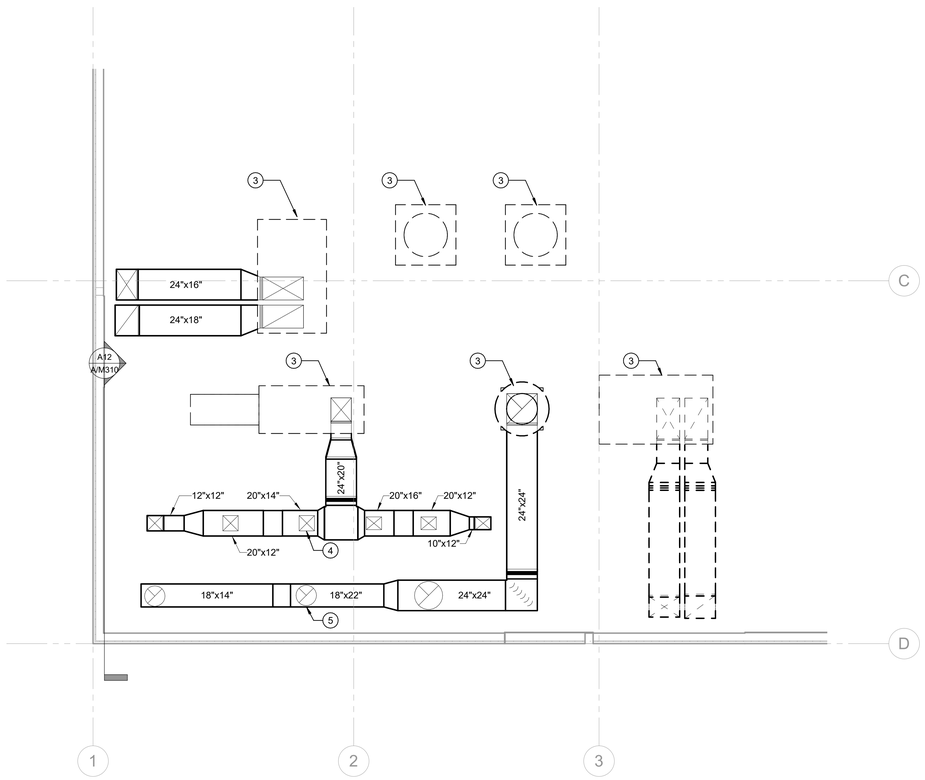
J1 — PARTIAL MECHANICAL DEMOLITION MEZZANINE PLAN

1/4" = 1'-0"



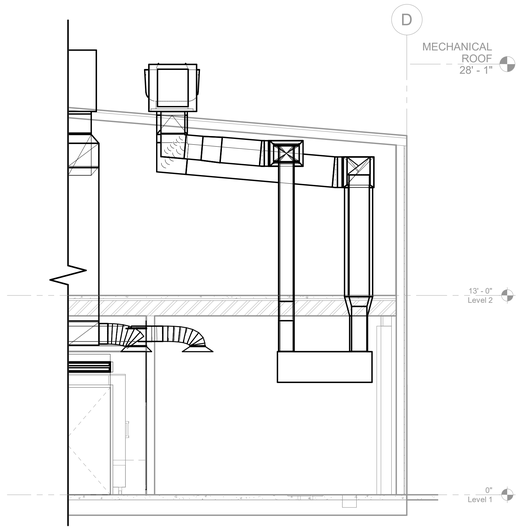
J12 — MEZZANINE DUCT DEMOLITION SECTION

1/4" = 1'-0"



A1 — PARTIAL PROPOSED MECHANICAL MEZZANINE PLAN

1/4" = 1'-0"



A12 — KITCHEN HOOD SECTION

N.T.S.

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KEYNOTES (#)

1 (E) HC ON ROOF TO BE RELOCATED. SEE SHEET A/M500 FOR ROOF LAYOUT.
2 DEMO (E) DUCT WHERE SHOWN HATCHED.
3 MECHANICAL EQUIPMENT ON ROOF. SEE SHEET A/M500 FOR ROOF LAYOUT.
4 SUPPLY DROP TO (N) KH-1 & (N) KH-2 BELOW. SEE SHEET A/M302 FOR SIZING AND LAYOUT. (TYP OF 3)
5 EXHAUST DROP TO (N) KH-1 & (N) KH-2 BELOW. SEE SHEET A/M302 FOR SIZING AND LAYOUT. (TYP OF 3)

GENERAL NOTES

A. SEE DETAIL N11-X/M800 FOR TYPICAL CEILING GRILLE INSTALLATION.

B. SEE DETAIL J11-X/M800 FOR TYPICAL BRANCH DUCT CONNECTIONS.

C. SEE DETAIL E11-X/M800 FOR TYPICAL DUCT SUPPORTS.

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Architect

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Scale: As indicated
Project Number: 2310
Date: xx/xx/xx

A/M310

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DSA Application No.:
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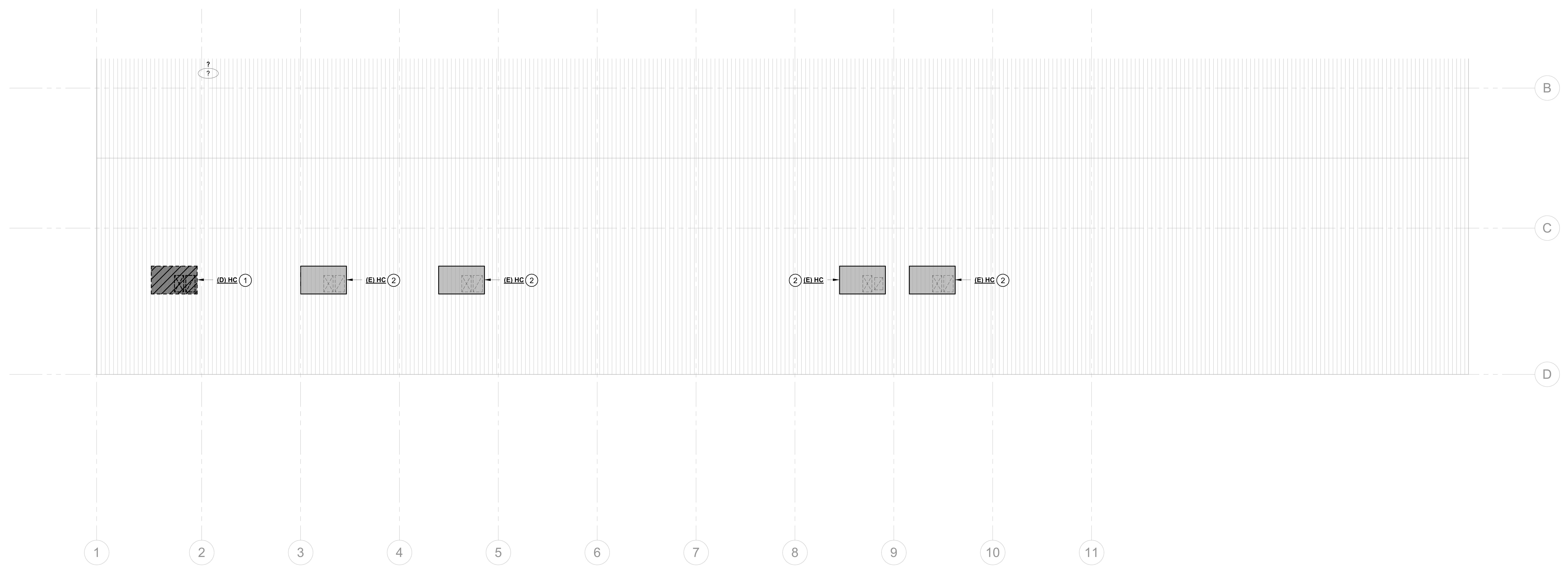
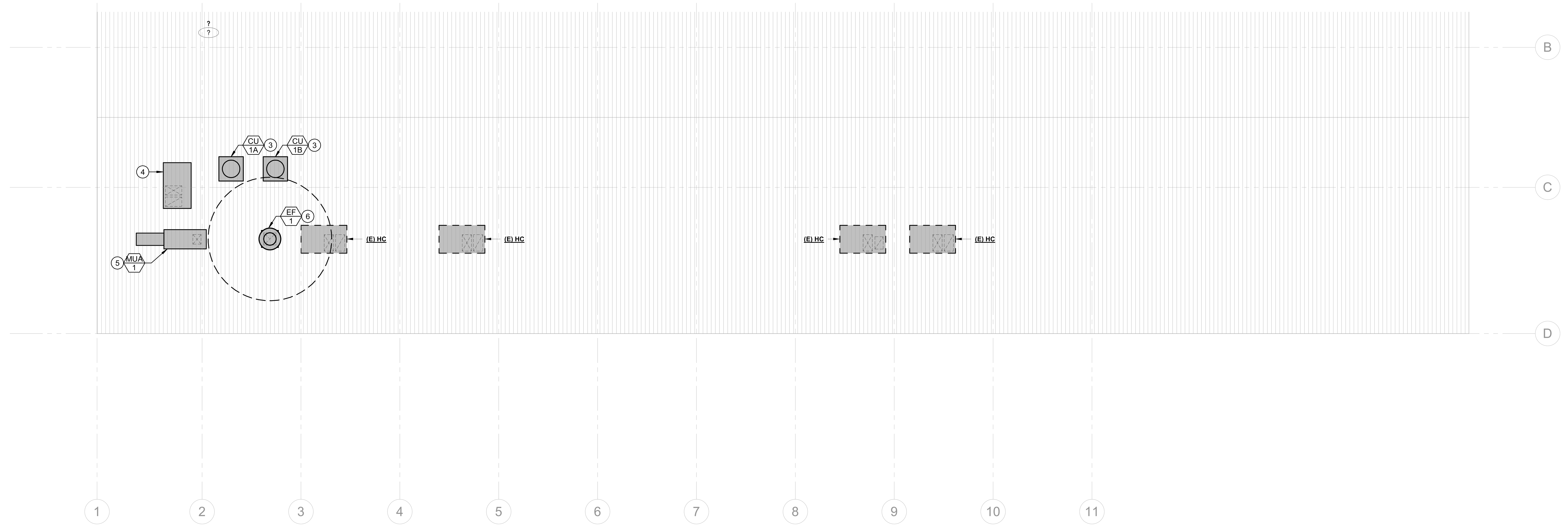
KEYNOTES (#)

1. REMOVE AND PROTECT (E) HC FOR RELOCATION. SEE A1-A/M500.
2. (E) HC TO REMAIN.
3. (N) CONDENSING UNIT SERVING BLAST CHILLER. SEE DETAIL A14-X/M800 FOR INSTALLATION.
4. RELOCATED (E) HC. SEE DETAIL J14-X/M800 FOR MOUNTING.
5. (N) MUA-1 SEE DETAIL E14-X/M800 FOR INSTALLATION.
6. (N) EF-1. SEE DETAIL N14-X/M800 FOR INSTALLATION.



J1 MECHANICAL DEMOLITION ROOF PLAN
1/8" = 1'-0"



A1 PROPOSED MECHANICAL ROOF PLAN
1/8" = 1'-0"

General Notes

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Child Nutrition Kitchen
Madera Unified School District
769 S. Pine St. Madera, CA 93637

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MECHANICAL PARTIAL ROOF PLAN

Drawing

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PLUMBING SCHEDULE

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	S OR W	V	CW	HW	DESCRIPTION
S-1	2-COMPARTMENT SINK	2"	1-1/2"	1/2"	1/2"	ADVANCE TABCO 94-62-36-18RL. PROVIDE CHICAGO FAUCET 4445-DJ13.
S-2	HANDWASH SINK	2"	1-1/2"	1/2"	1/2"	ADVANCE TARCO MODEL #7-PS-46 WALL HUNG, 20"x24" SINK, 18 GAUGE TYPE 304 STAINLESS STEEL WITH BACKSPLASH AND WALL BRACKET, STAINLESS STEEL GRID DRAIN, BACKSPLASH MOUNTED GOOSENECK FAUCET WITH WRIST BLADE HANDLES, DECK MOUNT SOAP DISPENSER, AND FRONT LOADING PAPER TOWEL DISPENSER. PROVIDE WILKINS #ZW3870XLT-4P POINT-OF-USE THERMOSTATIC MIXING VALVE BELOW SINK. PROVIDE A STEEL SUPPORT PLATE FOR MOUNTING FIXTURE PER DETAIL ON DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR ACCESSIBLE MOUNTING HEIGHT.
FS-1	FLOOR SINK	2"	1-1/2"	TP	_"	J.R SMITH MODEL #3150-Y, COATED CAST IRON, ACID RESISTANT PAINTED INTERIOR, 12-1/2" SQUARE TOP, 8" DEEP, DOUBLE DRAINAGE FLANGE, NO HUB OUTLET & DOME STRAINER.
TD-1	TRENCH DRAIN	3"	1-1/2"	TP	_"	KUSEL TD4V18ZC-034 TRENCH DRAIN. MADE OF 12 GA TYPE 304 SS, STANDARD INDUSTRIAL FINISH BODY WITH LEVELING TABS AND V SHAPED BOTTOM. 18" WIDE (GRATE WIDTH: 15-1/2" TROUGH WIDTH: 12-1/4"). 1/4" PITCH TO 3" SCH 40 CENTER OUTLET. 3-5/8" STARTING DEPTH. OPEN BAR GRATE WITH 8 GA SIDE BANDING BARS AND 10 GA CONTINUOUSLY WELDED BEARING BARS ON 1-1/2" CENTERS.
TP-1	TRAP PRIMER	_"	_"	3/4"	_"	PRECISION PLUMBING PRODUCTS MODEL PST-10, ELECTRIC TRAP PRIMER, METAL CABINET 12"x12"x4" WITH COVER PLATE. ATMOSPHERIC VACUUM BREAKER, MANUAL OVER RIDE SWITCH/ TEST BUTTON, AND PRE-SET 24 HOUR ADJUSTABLE TIMER. WITH #DU-U DISTRIBUTION FOR UP TO (10) FLOOR DRAINS. CONFIRM WITH ELECTRICAL CONTRACTOR.
GI-1	GREASE INTERCEPTOR	3"	_"	_"	_"	ZURN Z1170-HD ACID RESISTANT COATED INTERIOR AND EXTERIOR FABRICATED STEEL GREASE INTERCEPTOR w/ HEAVY DUTY COVER, PDI, RATED AT 10GPM AND 30LBS. GREASE CAPACITY, WITH INTERNAL AIR RELIEF BY-PASS, BRONZE CLEANOUT PLUG, REMOVABLE PRESSURE EQUALIZING/FLOW DIFFUSING INLET BAFFLE, FIXED BOTTOM OUTLET BAFFLE, AND VISIBLE DOUBLE WALL TRAP SEAL, GASKETED NON-SKID SECURED COVER COMPLETE WITH CENTER TIE DOWN ASSEMBLY, WITH Z1108 FLOW CONTROL FITTING. REGULARLY FURNISHED WITH A HIGH INLET AND OUTLET CONNECTION.

ANCHORAGE & BRACING NOTES

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 DISCPLACEMENT 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 HAVE 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 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 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.

MECHANICA PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

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

MD ☐ MP ☐ PP ☐ E ☐ - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) # _____.

PLUMBING LEGEND

SYMBOL	ITEM	ABBR.
	ABOVE	ABV
	ABOVE CEILING	ABV CLG
	ABOVE FINISHED FLOOR	AFF
	ALTERNATE	ALT
&	AND	
	ARCHITECT / ARCHITECTURAL	ARCH
@	AT	
	BELOW FLOOR	BEL FLR
	BELOW GRADE	BEL GR
	CALIFORNIA MECHANICAL CODE	CMC
	CALIFORNIA PLUMBING CODE	CPC
	CEILING	CLG
℄	CENTER LINE	
⟅	CONTINUATION	CONT
	CUBIC FEET PER HOUR	CFH
∅	DIAMETER	DIA
	DOWN	DN
	DRAWING	DWG
	ELBOW	ELL
	ELECTRICAL	ELEC
	EXISTING	(E)
	FEET	FT
	FLOOR	FLR
	FLOW LINE	FL
	GALLON	GAL
	GALLONS PER HOUR	GPH
	GALLONS PER MINUTE	GPM
	GAUGE	GA
	INSIDE DIAMETER	ID
	INVERT ELEVATION	I.E.
	MAXIMUM	MAX
	MINIMUM	MIN
	NEW	(N)
	NOT IN CONTRACT	NIC
	NOT TO SCALE	NTS
#	NUMBER	NO.
	OUTSIDE DIAMETER	OD
	POUNDS	LBS
	POUNDS PER SQUARE INCH	PSI
	POUNDS PER SQUARE INCH ABSOLUTE	PSIA
	POUNDS PER SQUARE INCH GAUGE	PSIG
	POLYVINYL CHLORIDE	PVC
	ROOM	RM
	SPECIFICATION	SPEC
	SQUARE FEET	SQ FT
	STAINLESS STEEL	SS
	TEMPERATURE	TEMP
	THROUGH	THRU
	TYPICAL	(TYP)
	WATER COLUMN	WC
	WITH	W/
—A—	COMPRESSED AIR	A
—AV—	ACID VENT	AV
—AW—	ACID WASTE	AW
	ACID VENT RISER	AVR
	ACID VENT THRU ROOF	AVTR
—CD—	CONDENSATE DRAIN	CD
	DOMESTIC COLD WATER	CW
	DOMESTIC HOT WATER	HW
	DOMESTIC HOT WATER RETURN	HWR
—G—	LOW PRESSURE NATURAL GAS	G
—HPG—	HIGH PRESSURE GAS	HPG
—ICW—	INDUSTRIAL COLD WATER	ICW
—LPG—	LIQUIFIED PETROLEUM GAS	LPG
—F—	FIRE PROTECTION LINE	
—RWL—	RAIN WATER LEADER	RWL
—OD—	OVERFLOW DRAIN	OD
—SD—	STORM DRAIN	SD
	SOIL or WASTE	S or W
—MA—	MEDICAL AIR	MA
—O_2—	OXYGEN	O_2
—VAC—	VACUUM	VAC
	VENT	V
	VENT RISER	VR
	VENT THRU ROOF	VTR
	CLEANOUT TO GRADE	COTG
	DEMOLITION	DEMO
	EXISTING PIPING	
	FLOOR CLEANOUT	FCO
	HOSE BIBB	
	PIPING TURN UP	
	PIPING TURN DOWN	
	PIPING CAP	
	POINT OF CONNECTION TO EXISTING	POC
	ANGLE VALVE	
	BALANCE VALVE	
	BALL VALVE	
	CHECK VALVE	

SYMBOL	ITEM	ABBR.
	CONCENTRIC REDUCER	
	TWO-WAY CONTROL VALVE	
	PLUG VALVE	
	PRESSURE REDUCING VALVE	
	SHUT-OFF VALVE IN BOX	SOV
	SHUT-OFF VALVE	SOV
	THERMOSTATIC MIXING VALVE	
	TEMPERATURE / PRESSURE RELIEF VALVE	PRV
	UNION	
	WALL CLEANOUT	WCO
	"Y" TYPE STRAINER	
(P)	PRESSURE GAUGE	
(T)	TEMPERATURE GAUGE	
(1)	KEYNOTE	
WC-1	NEW FIXTURE TAG EXAMPLE: WATER CLOSET - TYPE 1 (REFER TO PLUMBING SCHEDULE)	
2 / P800	DETAIL REFERENCE EXAMPLE: DETAIL 2, SHEET P800	
3 / P400	SECTION REFERENCE EXAMPLE: SECTION 3, SHEET P400	

GENERAL NOTES

1. COORDINATION OF WORK: LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY.
2. THE ACTUAL LOCATION OF ALL MATERIALS, PIPING, DUCTWORK, FIXTURES, EQUIPMENT, SUPPORTS, ETC. SHALL BE CAREFULLY PLANNED, PRIOR TO INSTALLATION OF ANY WORK TO AVOID ALL INTERFERENCES WITH EACH OTHER, OR WITH STRUCTURAL, ELECTRICAL, ARCHITECTURAL OR OTHER ELEMENTS.
3. VERIFY THE PROPER VOLTAGE AND PHASE OF ALL EQUIPMENT WITH THE ELECTRICAL PLANS. ALL CONFLICTS SHALL BE CALLED TO THE ATTEN TION OF THE ARCHITECT AND THE ENGINEER PRIOR TO THE INSTALLATION OF ANY WORK OR THE ORDERING OF ANY EQUIPMENT.
4. ALL DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS PRIOR TO ANY CONSTRUCTION, INCLUDING ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENT SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR THE OWNER REPRESENTATIVE.
5. MINIMUM SLOPE FOR SEWER IS 1/4" PER FT, UNLESS OTHERWISE NOTED.
6. ALL ROOF PENETRATIONS SHALL BE COMPATIBLE WITH ROOF SYSTEM WITH AS FEW PENETRATIONS AS POSSIBLE.
7. MINIMUM DOMESTIC WATER PIPE SIZE TO BE 3/4" UNLESS OTHERWISE NOTED. USE A REDUCING ELL AT FIXTURE, IF NECESSARY.
8. ALL PLUMBING FIXTURES, VALVES, FAUCETS, FIXTURE STOPS, ETC. WHICH PROVIDE WATER FOR HUMAN CONSUMPTION MUST MEET THE "LEAD FREE" REQUIREMENT FOR THE STATE OF CALIFORNIA.
9. MAXIMUM ALLOWABLE DISTANCE FOR HOT WATER LATERALS TO FIXTURES OFF OF THE CIRCULATING MAIN SHALL BE 10'-0" FOR HAND WASH SINKS AND LAVS, AND 15'-0" FOR OTHER SINKS.

PLUMBING SHEET INDEX

DSA File No.:
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General Notes

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PLUMBING SCHEDULES, LEGENDS, AND NOTES
Drawing

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Architect

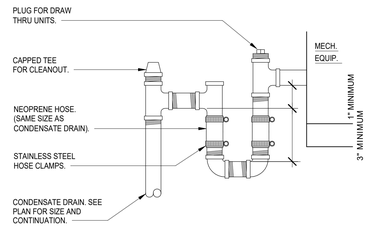
No.	Revision/Submission	Date

Revision

DesignPLUMBING

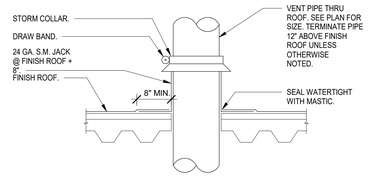
Scale: 12" = 1'-0"
Drawn By: Author
Project Number: 2310
Checked tChecker
Date: xx/xx/xx
ReviewerApprover

X/P001



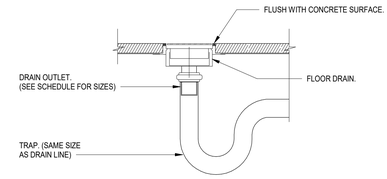
N7 CONDENSATE DRAIN CONNECTION

N.T.S.



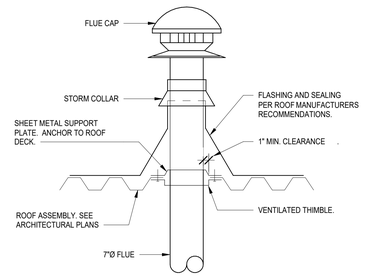
N11 PIPE THRU ROOF

N.T.S.



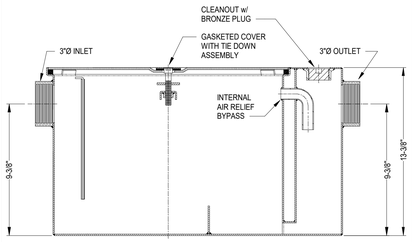
N14 FLOOR SINK/DRAIN CONN.

N.T.S.



J11 FLUE THRU ROOF

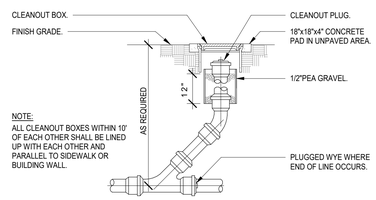
N.T.S.



NOTES:
- BODY DIMENSIONS: 27-1/8"L x 16-3/4"W
- APPROX. WGT.: 83 LBS.
- ADD EXTENSIONS AS NEEDED TO MAKE COVER FLUSH WITH SIDEWALK

J14 GREASE TRAP DETAIL

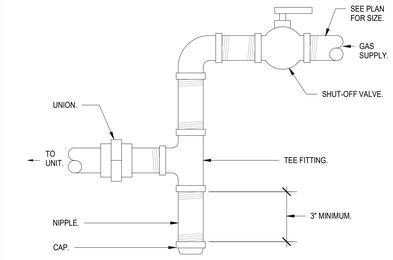
N.T.S.



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

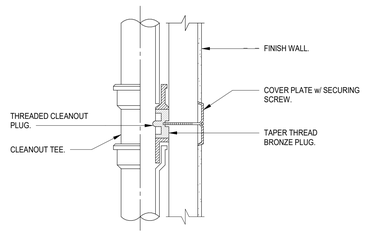
E11 CLEANOUT TO GRADE

N.T.S.



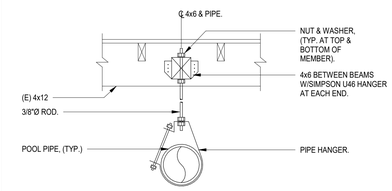
E14 GAS SOV & DIRT LEG

N.T.S.



A11 WALL CLEANOUT

N.T.S.



A14 PIPE SUPPORT HANGER

N.T.S.

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General Notes

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PLUMBING DETAILS

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Architect

No.	Revision/Submission	Date

Revision

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Project Number: 2310 | Checked fChecker

Date: xx/xx/xx | ReviewevApprover

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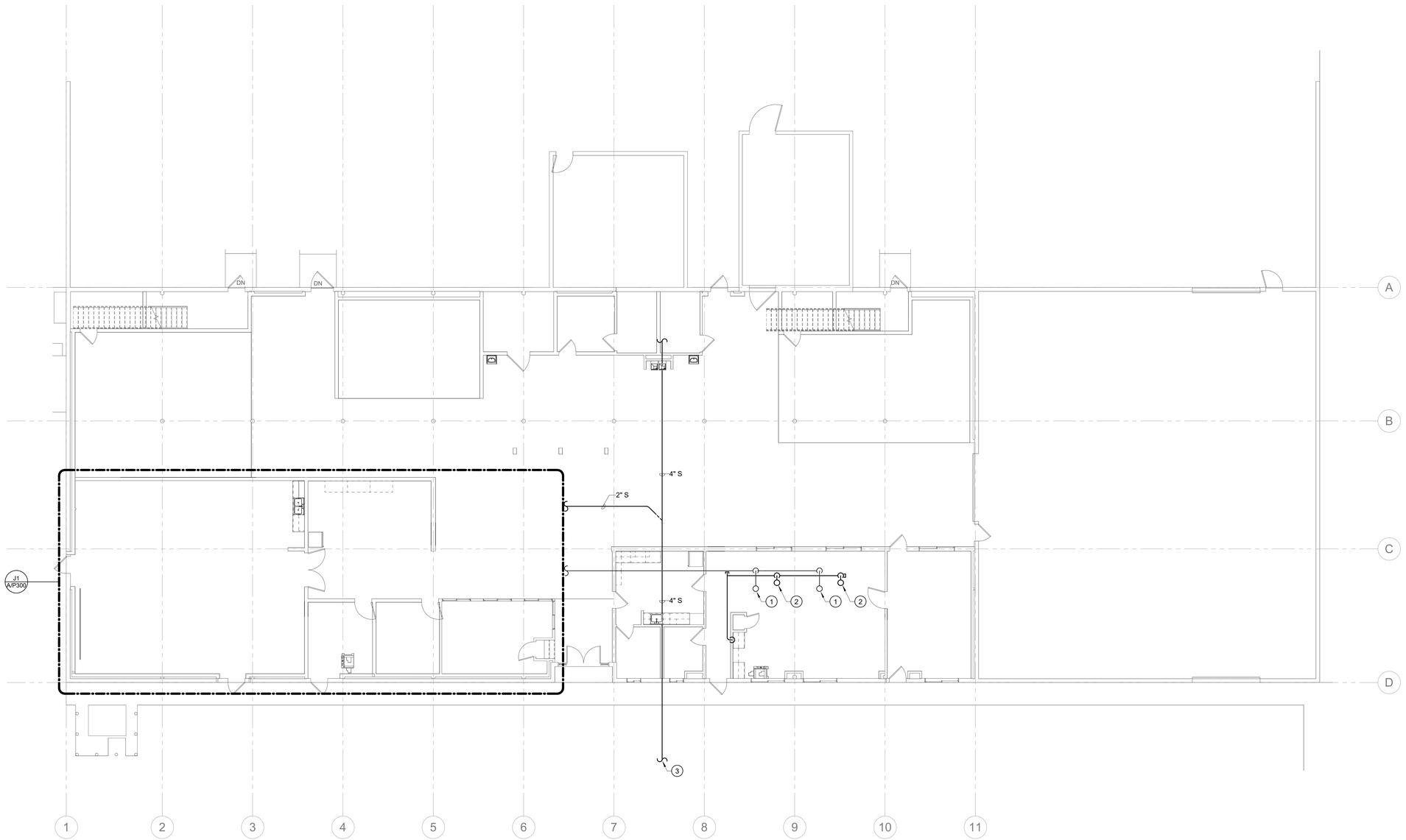

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DSA File

DSA Application No.:
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KEYNOTES (#)

1 (E) GAS RISER TO (E) HC ON ROOF.
2 (E) CONDENSATE RISER TO (E) HC ON ROOF.
3 (E) S TO (E) S MAIN BELOW GRADE.

General Notes

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OVERALL PLUMBING DEMOLITION PLAN

Drawing

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No.	Revision/Submission	Date

Revision

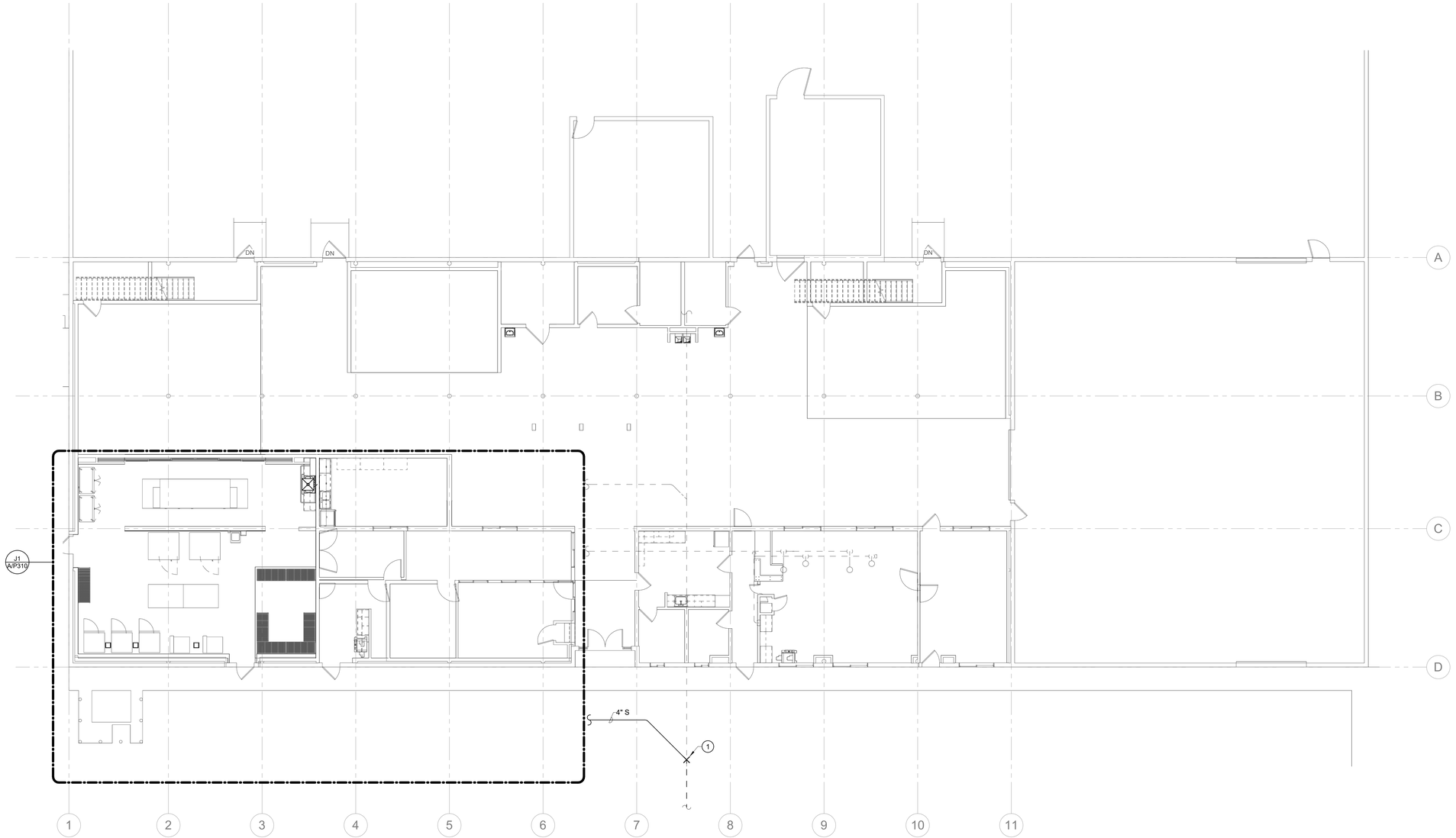
Designed Designer
Drawn By: Author
Checked Checker
Reviewed Approver

Scale: As indicated
Project Number: 2310
Date: xx/xx/xx

A/P100

A1
1/8" = 1'-0"

OVERALL PLUMBING DEMO PLAN



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KEYNOTES

1 POC OF (N) 4" S TO (E) 3" S.

General Notes

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OVERALL PROPOSED PLUMBING PLAN

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No.	Revision/Submission	Date

Revision

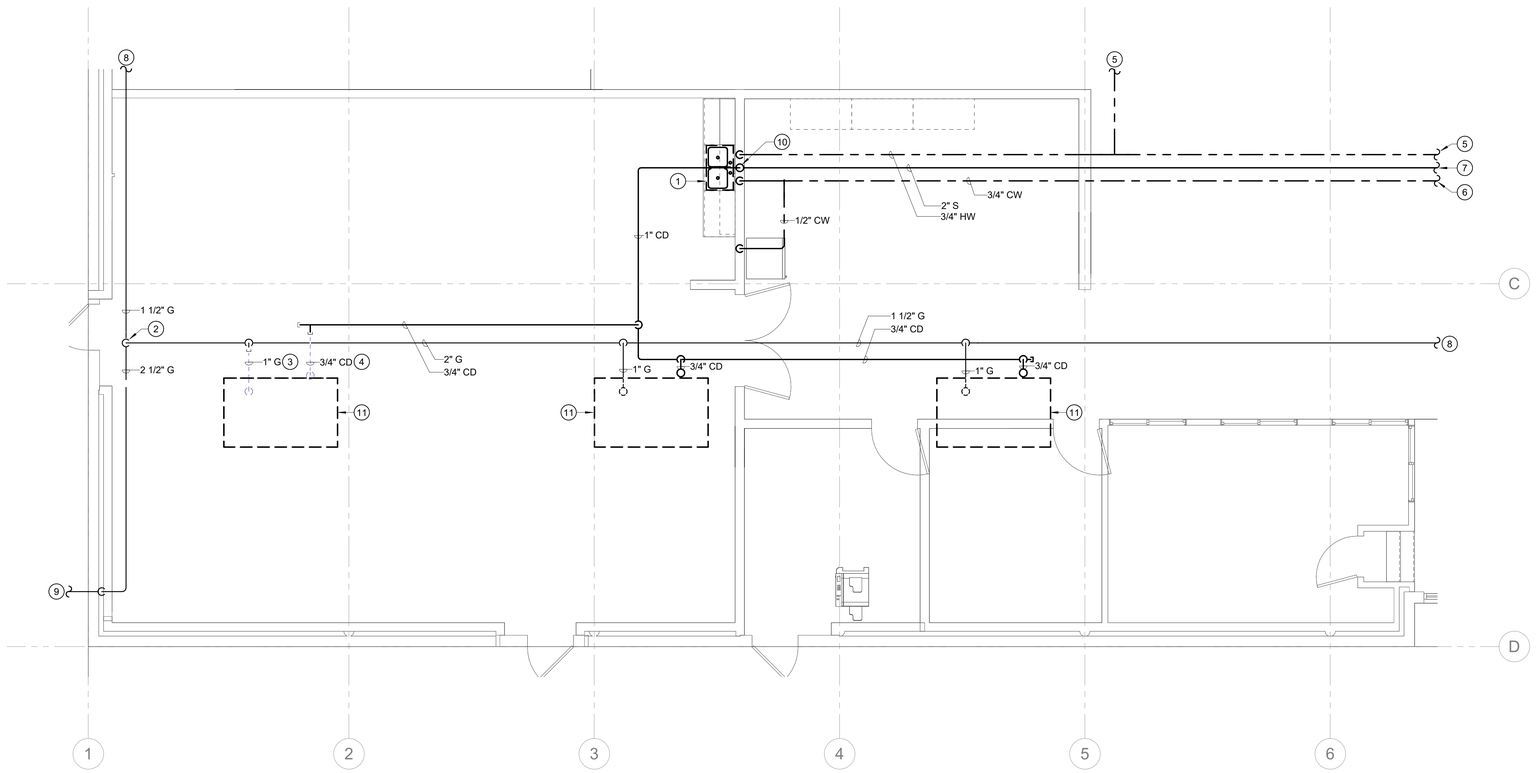
Designed Designer
Drawn By: Author
Checked Checker
Reviewed Approver

Scale: As indicated
Project Number: 2310
Date: xx/xx/xx

A/P110

A1
1/8" = 1'-0"

OVERALL PROPOSED PLUMBING PLAN



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KEYNOTES (#)

1	DEMO (E) KITCHEN SINK. PRESERVE CONNECTIONS FOR NEW.
2	(E) GAS RISER TO MEZZANINE ABOVE.
3	DEMO (E) 1" GAS RISER TO (E) HC ON ROOF. CAP AT CONNECTION AT MAIN. PATCH PENETRATIONS AND MATCH EXISTING FINISHES.
4	DEMO (E) 3/4" CD RISER TO (E) HC ON ROOF. CAP AT CONNECTION TO MAIN. PATCH PENETRATIONS AND MATCH EXISTING FINISHES.
5	(E) HW TO (E) HW LOOP IN BUILDING.
6	(E) CW TO (E) CW LINE IN BUILDING.
7	(E) S TO (E) S MAIN BELOW GRADE.
8	(E) 1-1/2" G to (E) GAS LINE IN BUILDING.
9	(E) 2-1/2" G FROM (E) METER.
10	(E) CONDENSATE DRAIN AT SINK TAILPIECE TO REMAIN.
11	MECHANICAL EQUPMENT ON ROOF. SEE MECHANICAL.

General Notes

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ENLARGED PLUMBING KITCHEN DEMOLITION PLAN

Drawing

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No.	Revision/Submission	Date

Revision

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Project Number: 2310	Checked Checker	A/P300
Date: xx/xx/xx	Reviewed Approver	

J1
1/4" = 1'-0"

PLUMBING DEMO PLAN - KITCHEN

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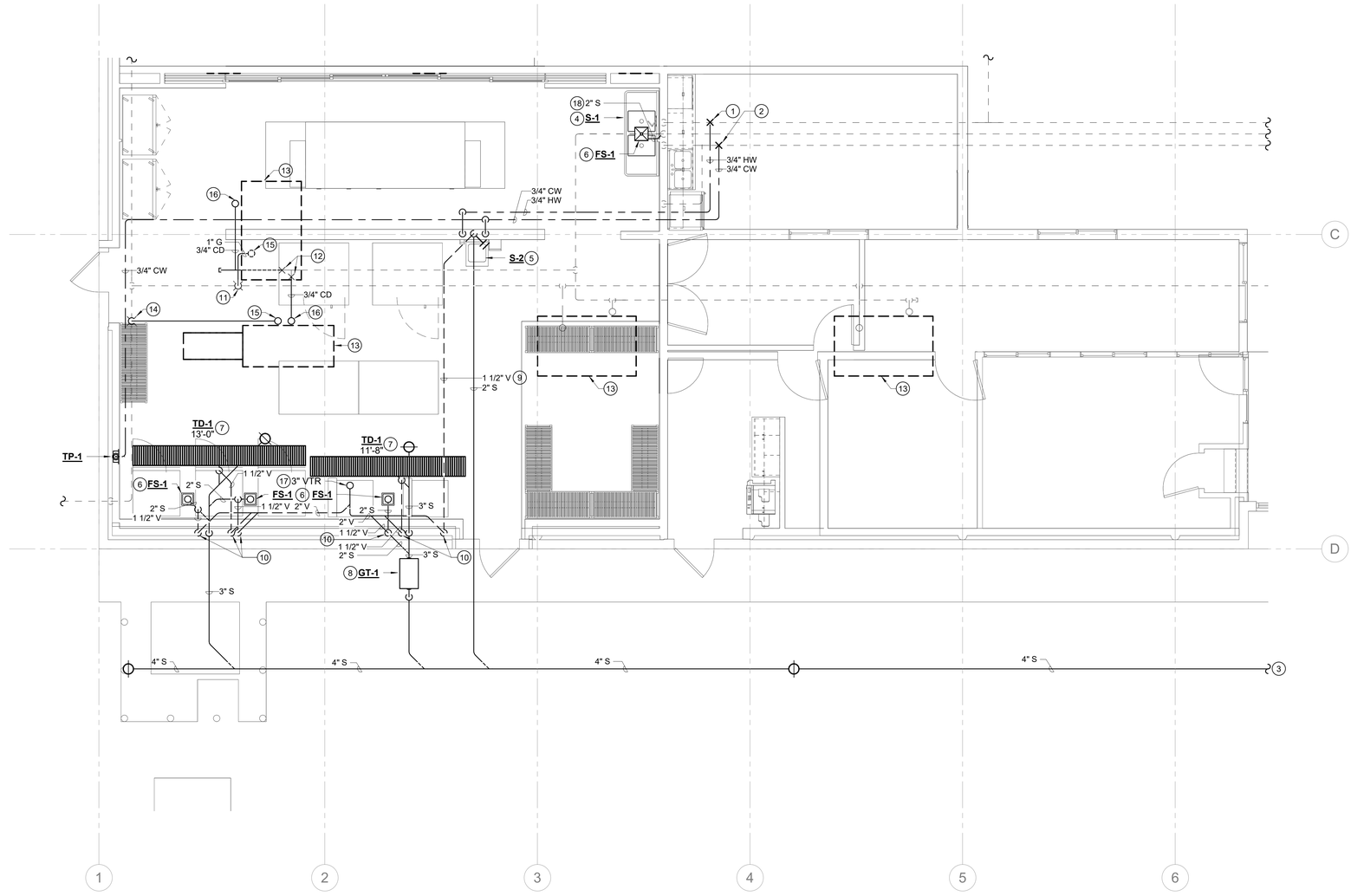

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KEYNOTES (#)

1 POC OF (N) 3/4" HW TO (E) 3/4" HW.
2 POC OF (N) 3/4" CW TO (E) 3/4" CW.
3 (N) 4" S TO (E) SEWER MAIN. SEE SHEET A/P110 FOR CONTINUATION.
4 1-1/2" V, 1/2" CW, 1/2" HW TO (N) TWO-COMPARTMENT SINK. DRAIN TO FLOOR SINK w/ 2" S. PROVIDE 1" AIR GAP.
5 2" S, 1-1/2" V, 1/2" CW, 1/2" HW TO (N) HANDWASH SINK.
6 2" S, 1-1/2" V, 1/2" TRAP PRIMER TO (N) FLOOR SINK. SEE DETAIL N14/X/M800 FOR INSTALLATION.
7 3" S, 1-1/2" V, 1/2" TRAP PRIMER TO (N) TRENCH DRAIN.
8 3" S TO GREASE INTERCEPTOR. SEE DETAIL J14/X/M800 FOR INSTALLATION.
9 (N) VENT ROUTED THRU GROUND FLOOR ATTIC.
10 (N) VENT RISER TO MEZZANINE ABOVE.
11 POC OF (N) 1" G TO (E) 2" G.
12 POC OF (N) 3/4" CD TO (E) 3/4" CD.
13 MECHANICAL EQUIPMENT ON ROOF. SEE MECHANICAL.
14 POC OF (N) 1" G TO (E) 2-1/2" G.
15 (N) GAS CONNECTION AT UNIT PER E14/X/P800.
16 (N) CONDENSATE CONNECTION AT UNIT PER N7/X/P800.
17 3" VTR INSTALLED PER DETAIL J11/X/P800.
18 DEMO (E) WALL FOR INSTALLATION OF (N) 2" S TO SERVE (N) FLOOR SINK. PATCH BACK WALL TO MATCH FINISH CONDITIONS.

GENERAL NOTES

A. SEE DETAIL A14/X/P800 FOR TYPICAL PIPE SUPPORTS.

B. SEE DETAIL E11/X/P800 FOR TYPICAL CLEANOUT TO GRADE.

C. SEE DETAIL A11/X/P800 FOR TYPICAL WALL CLEANOUT.

D. SEE DETAIL N11/X/P800 FOR PIPE PENETRATIONS THRU ROOF.

General Notes

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ENLARGED PROPOSED KITCHEN PLUMBING PLAN
Drawing

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LICENSED ARCHITECT
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Architect

No.	Revision/Submission	Date

Revision

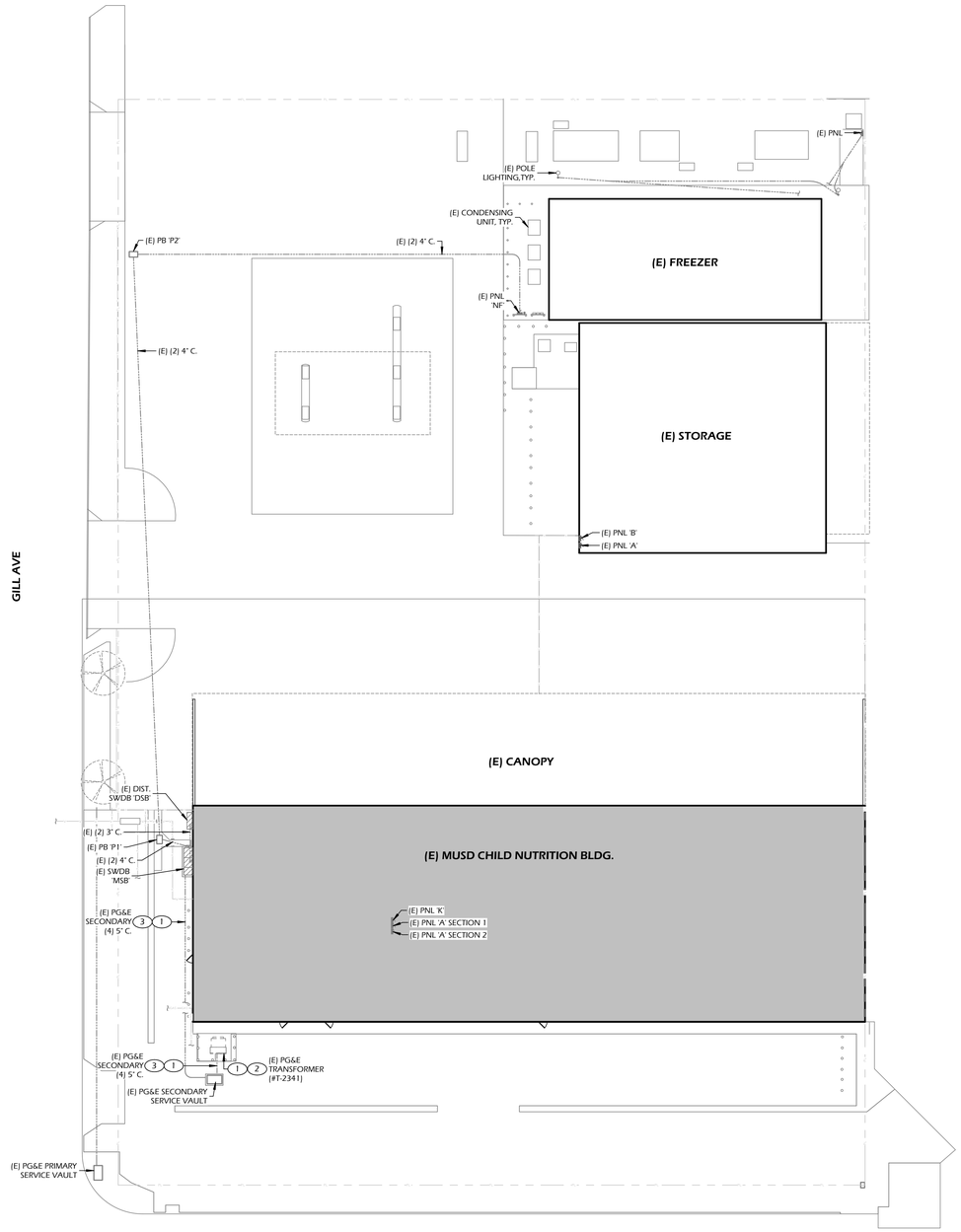
Designed Designer
Drawn By: Author
Checked Checker
Reviewed Approver

Scale: As indicated
Project Number: 2310
Date: xx/xx/xx

A/P310

J1
1/4" = 1'-0"

ENLARGED PROPOSED PLUMBING PLAN - KITCHEN



1 **DEMOLITION ELECTRICAL SITE PLAN**
1" = 20'-0"

SHEET NOTES 4

1. WORK TO BE DONE ONCE (N) MAIN SWITCHBOARD 'MSB1', ELECTRICAL DISTRIBUTION BOARD, AND NEW PG&E TRANSFORMERS HAS BEEN INSTALLED.
2. COORDINATE WITH PG&E FOR DISCONNECTING AND REMOVING THE EXISTING PG&E TRANSFORMER AND PRIMARY FEED. COORDINATE WITH CAMPUS/DISTRICT FOR PG&E SHUT OFF DISCONNECTION SO CAMPUS IS AWARE AT LEAST TWO MONTHS IN ADVANCED TO PREPARE FOR THE SWITCHOVER.
3. COORDINATE WITH PG&E TO DISCONNECT AND REMOVE THE EXISTING UNDERGROUND SECONDARY FEED. COORDINATE WITH DISTRICT AS TO WHEN THE POWER CUTOVER IS TO OCCUR AT LEAST TWO MONTHS IN ADVANCED TO PREPARE FOR THE SWITCHOVER.

DSA File No.:

DSA Application No.:

Agency Approval

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SCAN ME

Child Nutrition Kitchen Remodel

Madera Unified School District
769 S. Pine St, Madera, CA 93637
Project

Site Development-Demolition Electrical Site Plan
Drawing

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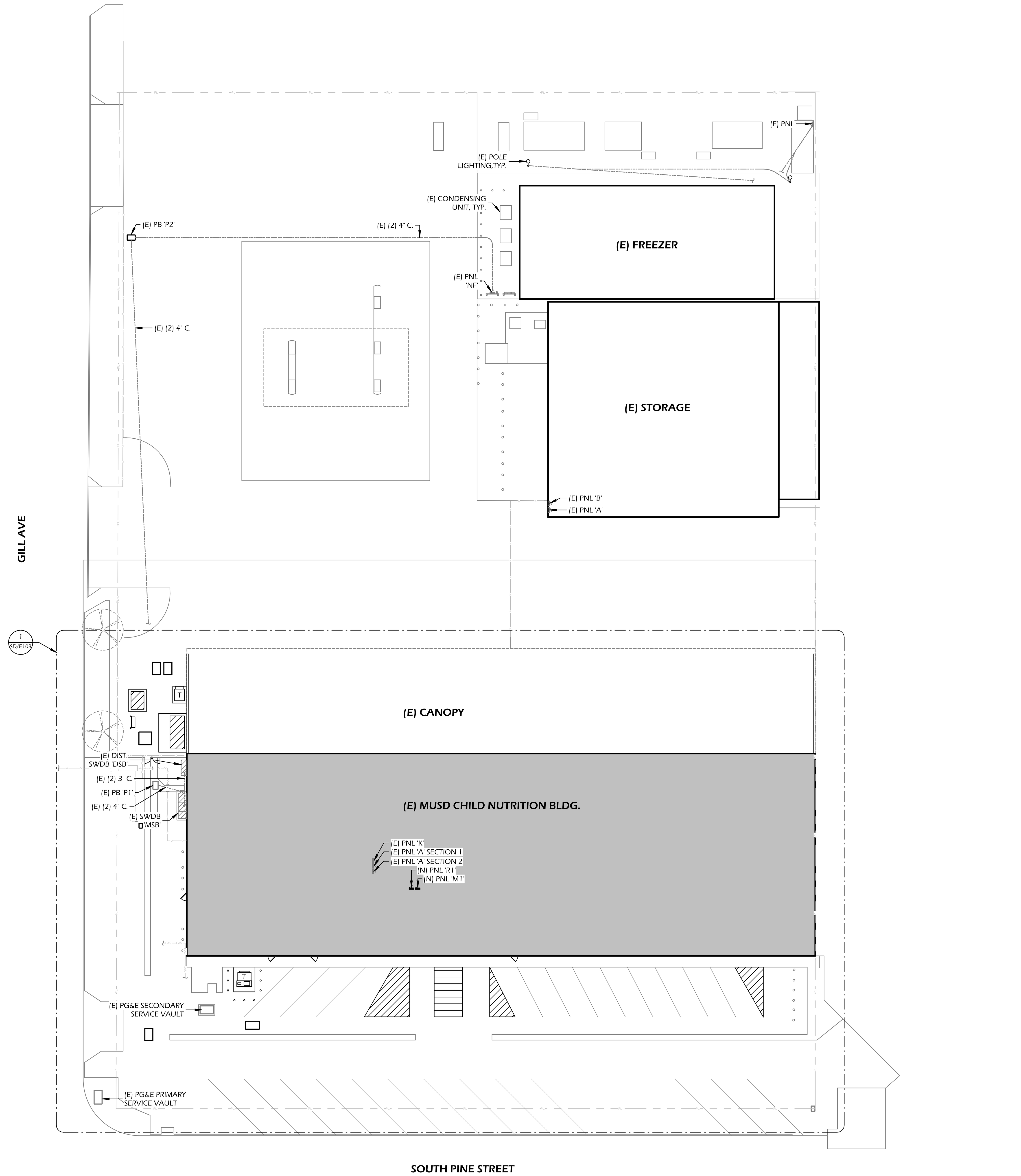

1 **ELECTRICAL SITE PLAN**
1" = 20'-0"

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REGISTERED PROFESSIONAL ENGINEER — JOHN BORRELLI — No.E16390 — EXP.6/30/25 — ELECTRICAL — CALIFORNIA

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Child Nutrition Kitchen Remodel

Madera Unified School District
769 S. Pine St, Madera, CA 93637
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Site Development-Electrical Site Plan
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Architect

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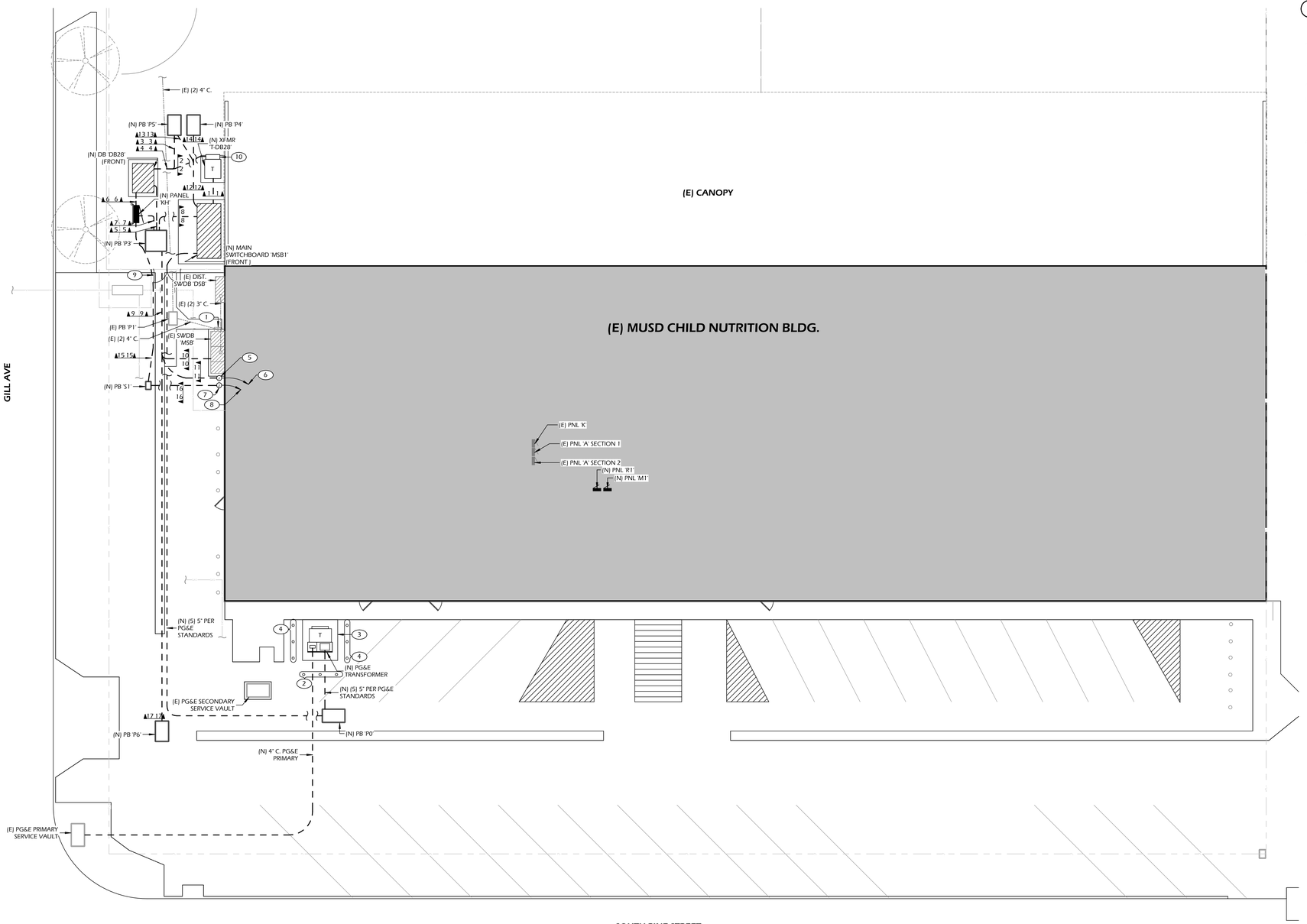

1 PARTIAL ELECTRICAL SITE PLAN

1" = 10'-0"

SHEET NOTES (4)

1. EXISTING 18x18x10-INCH CAN FOR THE FEEDER SUPPLY FOR THE EXISTING LARGE FREEZER COLD BOX BUILT IN 2024.
2. PROVIDE AND INSTALL REMOVABLE BARRIER POST PER PG&E STANDARDS.
3. PROVIDE AND INSTALL 90x106-INCH TRANSFORMER CONCRETE PAD PER PG&E STANDATDS.
4. PROVIDE AND INSTALL FIXED BARRIER POST PER PG&E STANDARDS.
5. PROVIDE AND INSTALL NEW WALL MOUNTED HINGED NEMA 3R 30x30x16(HxWxD)-INCH JUNCTION BOX AT FIRST FLOOR ATTIC SPACE LEVEL. NIPPLE THROUGH THE ATTIC SPACE WITH NIPPLE CHASE CONDUIT AND SIZE PER DUCT BANK SCHEDULE DESIGNATOR 11. PROVIDE AND INSTALL UL LISTED WATERPROOF SEALANT.
6. RUN THE NEW CONDUIT FOR THE NEW PANEL 'R1' AND 'M1' WITHIN THE ATTIC SPACE, REFER TO THE SINGLE LINE DIAGRAM FOR CONDUIT AND CONDUCTOR SIZE. RUN THE NEW CONDUIT FOR THE NEW ICOMBI AND IVARIO KITCHEN EQUIPMENT IN ROOM #111 WITHIN THE ATTIC SPACE, REFER TO THE TEST KITCHEN - EQUIPMENT SCHEDULE FOR CONDUIT AND CONDUCTOR SIZE ON SHEET X/E114.
7. PROVIDE AND INSTALL NEW WALL MOUNTED HINGED NEMA 3R 10x10x6(HxWxD)-INCH JUNCTION BOX AT FIRST FLOOR ATTIC SPACE LEVEL. NIPPLE THROUGH THE ATTICE SPACE WITH NIPPLE CHASE CONDUIT AND SIZE PER DUCT BANK SCHEDULE DESIGNATOR 16. PROVIDE AND INSTALL UL LISTED WATERPROOF SEALANT.
8. RUN THE NEW CONDUIT WITHIN THE ATTIC SPACE BACK TO THE FIRE ALARM RELAY MODULE ADJACENT TO THE KITCHEN HOOD, ROOM # 111, REFER TO SHEET X/E110.
9. DOUBLE DOOR, REFER TO ARCHITECTURAL DRAWINGS.
10. PROVIDE AND INSTALL A 36x36x12(HxWxD)-INCH JUNCTION BOX AND BOLT TO THE TRANSFORMER WITH 3/8-INCH BOLTS. INSTALL BOLTS WITHIN 18 INCHES OF EACH OTHER. INSTALL THE JUNCTION BOX AT THE SIDE CABLE ENTRY AREA AND TERMINATE THE SECONDARY CONDUIT.

HYDRO EXCAVATION GENERAL NOTES

1. CONTRACTOR SHALL UTILIZE HYDRO EXCAVATION IN ALL AREAS WHERE EXCAVATION NEEDS TO OCCUR SUCH AS BUT NOT LIMITED TO THE FINAL CONNECTION TO THE EXISTING PULL BOXES AND SIMILAR AREAS. IF CONTRACTOR COMES ACROSS AN UNIDENTIFIED UNDERGROUND CONDUIT OR PIPING, CONTRACTOR SHALL HAND EXCAVATE THOSE AREAS.

DUCT BANK SCHEDULE

###	POWER	SPARE	SIGNAL
1	(4) 3-1/2"		
2	(6) 4"		
3		(2) 3"	
4	(6) 4"	(2) 3"	
5	(2)3" & (4) 3-1/2"	(2) 3"	
6	(3) 3-1/2"		
7	(3) 2" & (2) 1-1/4"	2"	
8		(2) 4"	
9	(2)3", (4) 3-1/2", (3) 2" & (2) 1-1/4"	(4) 4" & 2"	
10	(4) 3-1/2"		
11	(2)3", (3) 2" & (2) 1-1/4"	(2) 4" & 2"	
12		(6) 4"	
13		(2) 4"	
14		(4) 4"	
15			1"
16			1"
17		(2) 4"	

PULL BOX SCHEDULE

	DESIGNATION	MINIMUM SIZE	LXW (IN)	LID TYPE	SYSTEMS
POWER	PB 'P0'	NOTE 5	NOTE 5	NOTE 5	POWER
	PB 'P3'	R27	56x56	H/20	POWER
	PB 'P4'	B3048	36.125x54.375	H/20	POWER
	PB 'P5'	B3048	36.125x54.375	H/20	POWER
	PB 'P6'	B3048	36.125x54.375	H/20	POWER
SIGNAL	PB 'S1'	B1017	15.75x22.375	H/20	SIGNAL

NOTES:
1. ALL PULL BOXES SHALL BE EITHER BROOKS, CHRISTY, OR EQUIVALENT.
2. ALL PULL BOXES SHALL BE PROVIDED WITH EXTENSION RINGS AND BOLT DOWN COVERS AS REQUIRED TO SUIT THE APPLICATION. ALL PULL BOXES TO BE TRAFFIC RATED.
3. LABEL PULL BOXES ``ELECTRICAL,' `SIGNAL' OR ` COMMUNICATIONS' AS REQUIRED.
4. THE PULL BOXES/PITS/VAULTS HAVE AREAS ON THE SIDES THAT ALLOW FOR THE CONDUIT ENTRY. INCLUDE ADDITIONAL AREAS AROUND THE PERIMETER OF THE PULL BOXES/PITS/VAULTS PRIOR TO ORDERING SO THE CONDUIT ENTERS FROM THE SIDES AT 45 DEGREES PER THE TYPICAL DETAILS.
5. NEW 3'x5' PULL BOX PER 'PG&E' STANDARDS WITH 'H20' TRAFFIC COVER.

DSA File No.:

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Agency Approval

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BAI # 23165

REGISTERED PROFESSIONAL ENGINEER — JOHN BORRELLI — No. E16390 — EXP 9/30/25 — ELECTRICAL — STATE OF CALIFORNIA

SCAN ME

Child Nutrition Kitchen Remodel

Madera Unified School District
769 S. Pine St, Madera, CA 93637

Project

Site Development-Partial Electrical Site Plan

Drawing

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Architect

No.	Revision/Submission	Date

Revision

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MEP COMPONENT ANCHORAGE NOTE

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 2022 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 HAVE 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 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8 AND 2022 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. WHAT BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAi OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOB SITE 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 SYSTEM (E):

MP [ ] MD [ ] PP [ ] E [x] OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS

MP [ ] MD [ ] PP [ ] E [ ] OPTION 2: SHALL COMPLY WITH THE APPLICABLE HCAI PRE-APPROVAL (OPM#)

GENERAL NOTES

1. ALL WORK AND MATERIAL SHALL CONFORM TO LATEST CODES AND ORDINANCES. IT IS THE INTENTION OF THESE PLANS AND SPECIFICATIONS TO COVER ALL THINGS REQUIRED TO PROVIDE COMPLETE AND OPERATIVE SYSTEMS. THE CONTRACTOR SHALL 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 SHALL BE INCLUDED. NOTHING IN THESE PLANS OR SPECIFICATIONS MAY BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO ANY CONSTRUCTION CODES.
2. ALL EQUIPMENT SHALL HAVE TESTING LABORATORY LABEL ATTACHED (U.L. C.S.A. ETC.) AS PER C.E.C. 110. PROOF OF TESTING LABELS REQUIRED WITH ALL SUBMITTALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL THESE REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PURCHASING, IF ANY OF THE SPECIFIED MATERIAL FAILED THESE REQUIREMENTS. WHERE A FIELD CERTIFIED PRODUCT MAY BE REQUIRED FOR FIELD ASSEMBLED COMPONENT, PROVIDE CERTIFIED REPORT BY AN APPROVED TESTING AGENCY ACCEPTABLE TO THE AUTHORITIES HAVING JURISDICTION. INCLUDE ALL TESTING FEES IN BID.
3. THE ENGINEERING SERVICE ARE LIMITED TO PREPARATION OF PLANS AND SPECIFICATIONS. THE PLANS AND SPECIFICATIONS ARE INTENDED TO BE USED AS CONSTRUCTION GUIDELINES ONLY AND NOT THE TOTAL INSTRUMENT OF CONTRACT DOCUMENTS. IT IS NOT THE INTENTION OF ANY CONSTRUCTION PLANS TO DIVIDE WORK AMONG DIFFERENT TRADES. VERIFY SCOPE OF WORK WITH GENERAL CONTRACTOR/OWNER SINCE THE ENGINEER IS NOT SUPERVISING THE JOB. THE ENGINEER WILL PROVIDE INTERPRETATION OF THE CONSTRUCTION DOCUMENTS, BUT SUPERVISION IS UNDER THE RESPONSIBILITY OF THE OWNER OR HIS APPOINTEE.
4. WORKING CLEARANCE SHALL BE MAINTAINED AS PER C.E.C FOR ALL PANEL(S), SERVICE EQUIPMENT, DISCONNECT SWITCH, ETC. LOCAL UTILITY COMPANY WORKING CLEARANCE REQUIREMENT SHALL ALSO BE OBSERVED. POWER EQUIPMENT MANUFACTURER'S PRODUCT MAY VARY IN DIMENSION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF WORKING CLEARANCE REQUIREMENT WHEN LAYING OUT THE ELECTRICAL EQUIPMENT.
5. ARC FLASH WARNING LABELS SHALL BE PLACED ON ALL ELECTRICAL DISTRIBUTION BOARDS, MAIN SWITCHBOARDS, TRANSFORMERS, PANELS, PANELBOARDS, DISCONNECTS ETC. PER CEC 110.16. LABELS SHALL BE PER ANSI Z535.4 GUIDELINES. REFER TO THE ARC FLASH REQUIREMENTS PER THE TYPICAL DETAILS.
6. THE CONTRACTOR SHALL VERIFY EXACT LOCATION OF TERMINAL BOXES AND CONDUIT ENTRANCES OF ALL EQUIPMENT AGAINST SHOP DRAWINGS BEFORE STUBBING UP CONDUITS OR PENETRATING EXTERIOR WALL(S) OF BUILDING(S).
7. IN CASE OF INTERFERENCE BETWEEN ELECTRICAL EQUIPMENT SHOWN ON THE DRAWINGS AND OTHER EQUIPMENT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING BEFORE PROCEEDING.
8. ALL OUTDOOR DEVICES SHALL BE WEATHERPROOF.
9. ONLY MAJOR PULL BOXES ARE SHOWN. CONTRACTOR SHALL PROVIDE ADDITIONAL PULL BOXES WHERE THEY ARE REQUIRED TO MAKE A WORKABLE INSTALLATION. ALL PULL BOXES ABOVE GROUND SHALL BE PAD LOCKABLE. ALL PULL BOXES UNDERGROUND SHALL HAVE HOLD DOWN BOLTS AND BE TRAFFIC RATED.
10. MARK ALL PANELS WITH LAMANOID TAGS RIVETED TO THE EQUIPMENT. PROVIDE TYPE WRITTEN PANEL SCHEDULE AT ALL PANELS.
11. ALL FLOOR/GROUND MOUNTED EQUIPMENT SHALL SIT ON A CONCRETE PAD 3" HIGHER THAN SURROUNDING SURFACE FOR INTERIOR EQUIPMENT AND 6" FOR EXTERIOR EQUIPMENT.
12. CONTRACTOR SHALL FURNISH ALL MATERIALS, TOOLS, LABOR, EQUIPMENT AND SUPERVISION NECESSARY TO COMPLETE INSTALLATION, CHECKOUT AND INITIAL OPERATION.
13. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GENERAL ARRANGEMENT OF EQUIPMENT SHOWN AND SHALL SUBMIT SHOP DRAWINGS FOR ALL EQUIPMENT PRIOR TO PURCHASE.
14. CAUTION SHOULD BE USED WHEN EXCAVATING OR TRENCHING TO LOCATE EXISTING UNDERGROUND CONDUITS. COORDINATE WITH AGENCIES SUCH AS UNDERGROUND SERVICE ALERT PRIOR TO EXCAVATION.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING VISITED THE SITE AND SATISFIED HIMSELF AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. THE CONTRACTOR SHALL CHECK ALL OF THE CONDITIONS WHICH MAY AFFECT HIS WORK. THE SITE VISIT SHALL BE MADE PRIOR TO SUBMITTING THE BID. BIDDERS SHALL PREARRANGE A SITE VISIT WITH THE OWNER/ARCHITECT.
16. THE CONTRACTOR SHALL OBTAIN A FULL SET OF PLANS WHEN BIDDING THE JOB.
17. ALL PHASE CONDUCTORS SHALL HAVE THEIR OWN NEUTRALS. NO SHARING OF NEUTRALS ALLOWED.
18. ISOLATED GROUNDING CONDUCTORS SHALL BE SIZED TO MATCH THE EQUIPMENT GROUNDING CONDUCTOR SIZE AND INSTALLED AND CONNECTED ONLY TO THE RECEPTACLES REQUIRED TO BE CONNECTED TO THE ISOLATED GROUNDING SYSTEM AND GROUNDED AT THE MAIN GROUNDING BUS WITHIN THE THE PANEL OF CIRCUIT ORIGIN. THE ISOLATED GROUNDING CONDUCTOR SHALL NOT BE CONNECTED TO ANY OTHER GROUNDING SYSTEM ALONG IT'S PATH.
19. A CERTIFIED ELECTRICIAN SHALL BE PRESENT ON THE PROJECT WHENEVER ELECTRICAL WORK IS IN PROGRESS. AN ELECTRICAL CONTRACTOR IS NOT EXEMPT FROM THIS REQUIREMENT AND SHALL ALSO BE CERTIFIED IF HE IS WORKING AS THE RESPONSIBLE PROJECT ELECTRICIAN . VIOLATION OF THIS REQUIREMENT BY EITHER ELECTRICIANS OR WORKING CONTRACTORS SHALL BE REPORTED TO THE STATE LICENSE CONTRACTOR BOARD AS REQUIRED UNDER THE EXISTING LABOR CODE SECTION 108.2. NO VOLUNTEERS ARE ALLOWED TO PERFORM WORK ON THIS PROJECT AND ALL CITY INSURANCE REQUIREMENTS MUST BE MET PRIOR TO PERFORMING ANY WORK.
20. ALL CONDUIT SHALL BE CONCEALED WITHIN ATTIC SPACE AND WALLS.
21. ALL FASTENERS USED SHALL BE STAINLESS STEEL GRADE 316.
22. ALL EXTERIOR RECEPTACLES SHALL BE GFCI TYPE WITH A LOCKING, WEATHERPROOF IN-USE COVER.
23. ALL DISCONNECTS SHALL BE READILY ACCESSIBLE AND IN SIGHT OF THE EQUIPMENT, PER THE CALIFORNIA ELECTRICAL CODE. IF THE DISCONNECTING MEANS CANNOT BE LOCATED WITHIN SIGHT OF THE EQUIPMENT SERVED, IT SHALL HAVE THE CAPABILITY OF BEING LOCKED IN THE OPEN POSITION.
24. ALL CONDUCTORS INSTALLED IN UNDERGROUND OR WET LOCATIONS SHALL BE LISTED FOR WET LOCATIONS AND MARKED WITH "W" PER CEC.
25. SPLICES AND TERMINALS SHALL BE COMPRESSION TYPE OF SEAMLESS PURE COPPER, TIN PLATED, LONG BARREL (TERMINALS WITH TWO-HOLE PAD AND INSPECTION WINDOW WITH NEMA DRILLING), AS MANUFACTURED BY BURNDY TYPE YS, YAZ-2N OR EQUAL. CLEAN ALL SURFACES AND INSTALL WITH OXIDE INHIBITING COMPOUND, BURNDY PENETROX-E OR EQUAL. INSTALL COMPRESSION CONNECTORS WITH 360° CIRCUMFERENTIAL COMPRESSION DYE, BURNDY HYPRESS OR EQUAL. THE INDENTER OR OTHER TYPE TOOLS WILL NOT BE ACCEPTABLE.
26. INSTALL 'MECHANICALLY FASTENED PHENOLIC NAMEPLATE WITH WHITE LETTERING ON BLACK BACKGROUND ON ALL EQUIPMENT, INCLUDING PULL BOXES, WITH DESCRIPTION INDICATED ON DRAWINGS. NAMEPLATES SHALL READ EXACTLY AS DESCRIBED ON THE DRAWINGS. IN GENERAL NAMEPLATE LETTERING SIZE SHALL BE 3/16-INCH HIGH FOR ALL NAMEPLATES SERVING FEEDER AND BRANCH CIRCUIT BREAKERS. ON MAIN SERVICE PANELS AND ALL OTHER NAMEPLATES LETTERING SHALL BE 1/4-INCH HIGH.
    - 26.1 ALL SWITCHBOARDS, SWITCHGEAR, PANELBOARDS, VFD'S, MOTORS, JUNCTION BOXES, PULL BOXES, DISCONNECT SWITCHES, ETC., SHALL BE MARKED TO INDICATE EACH DEVICE OR EQUIPMENT WHERE THE POWER ORIGINATES PER CEC 408.4, FIELD IDENTIFICATION REQUIRED, (B) SOURCE OF SUPPLY.
27. COORDINATE EQUIPMENT LOCATIONS, CONTROL AND POWER WIRING REQUIREMENTS AND CONNECT POINTS WITH ALL APPLICABLE DISCIPLINES.
28. PROVIDE AND INSTALL FUSES PER UNIT NAMEPLATE DATA ON THE EQUIPMENT PROVIDED.
29. REINSTALL EXISTING ELECTRICAL INSTALLATIONS DISTURBED. CERTAIN EXISTING ELECTRICAL INSTALLATIONS MAY BE LOCATED IN WALL, CEILINGS OR FLOORS THAT ARE TO BE REMOVED AND ARE ESSENTIAL FOR THE OPERATION OF OTHER REMAINING INSTALLATIONS. WHERE THIS CONDITIONS OCCURS, PROVIDE A NEW EXTENSION OF ORIGINAL CIRCUITS, RACEWAYS, EQUIPMENT AND OUTLETS TO RETAIN SERVICE CONTINUITY. INSTALLATIONS SHALL BE CONCEALED IN FINISHED AREAS.
30. ONLY RIGID OR IMC CONDUIT SHALL BE USED WHEN TRANSITIONING FROM UNDERGROUND PVC CONDUIT TO ABOVE GROUND, PVC NOT ALLOWED.
31. ALL NEW METAL STRUCTURES AND THE ELECTRICAL SYSTEMS SHALL BE GROUNDED AND BONDED. REFER TO ELECTRICAL SPECIFICATIONS AND TYPICAL DETAILS.
32. ALL TRANSFORMER DISCONNECTS SHALL HAVE LOCKOUT CAPABILITY TO LOCK THE DISCONNECT IN THE OPEN AS WELL AS IN THE CLOSED POSITION.
33. ALL BUSES, CONDUCTORS, AND WINDINGS SHALL BE COPPER.
34. ALL INTERRUPT AND SHORT CIRCUIT RATINGS SHALL BE FULLY RATED.
35. ALL TRANSFORMER WINDING SHALL BE COPPER AND THEY SHALL BE K-13 RATED.
36. ALL OUTDOOR ENCLOSURES SHALL BE WEATHERPROOF RATED AND HAVE LOCKING HASP. INCLUDING, BUT NOT LIMITED TO SWITCHBOARDS, DISCONNECTS, ENCLOSURES, ETC. THE DISTRICT WILL PROVIDE THEIR OWN KEYED LOCKS. OUTDOOR PANELS SHALL HAVE KEYED LOCKING MECHANISM, KEYED PER DISTRICT'S STANDARD.
37. ALL LIGHTING CONTROL EQUIPMENT INDICATED ON THESE PLANS SHALL BE MANUFACTURED BY WATTSTOPPER.
38. ALL NEW 208/120V PANELS SHALL HAVE INTEGRAL SURGE PROTECTION WITH 102K JOULE CAPABILITY AND SHALL HAVE ALL MODES OF PROTECTION.
39. NEW RECEPTACLES IN OFFICES SHALL INCLUDE USB CHARGERS.
40. ALL NEW FACEPLATES SHALL BE FLUSH WITH THE WALL. PROVIDE EXTENSION RINGS WHERE NECESSARY.
41. ALL NEW RECEPTACLES SHALL BE TAMPERPROOF.
42. PATCH AND REPAIRED ALL REMOVED CONCRETE TO MATCH ADJACENT SURFACES.

STANDARD SYMBOL LEGEND

⟨#⟩	FIXTURE DESIGNATOR - '#' INDICATES FIXTURE TYPE.
▭	LIGHT FIXTURE - APPROXIMATELY TO SCALE
◩	FIXTURE WITH 90 MINUTE EMERGENCY BATTERY BACK-UP UNIT - SEE TYPICAL WIRING DETAIL
○ ○ 3 a	LIGHT FIXTURE - WALL OR CEILING MOUNTED. '3' INDICATES CIRCUIT, 'a' INDICATES SWITCH CONTROL.
⊗	EXIT LIGHTS- CEILING OR WALL MOUNTED, ARROW(S) INDICATES DIRECTION.
✕	EXISTING POLE LIGHTING
S1	WATTSTOPPER LMRC-101 ON/OFF, 1 SWITCH LEG LIGHTING CONTROLLER
S2	WATTSTOPPER LMRC-102 ON/OFF, 2 SWITCH LEG LIGHTING CONTROLLER
D1	WATTSTOPPER LMRC-211 DIMMING, 1 SWITCH LEG LIGHTING CONTROLLER
D2	WATTSTOPPER LMRC-212 DIMMING, 2 SWITCH LEG LIGHTING CONTROLLER
D3	WATTSTOPPER LMRC-213 DIMMING, 3 SWITCH LEG LIGHTING CONTROLLER
●	WATTSTOPPER LMDC-100 DUAL TECHNOLOGY MOTION SENSOR
●	WATTSTOPPER LMDX-100 DUAL TECHNOLOGY OCCUPANCY SENSOR
LV a	WATTSTOPPER LMSW-101 SWITCH, 'a' INDICATES SWITCH LEG CONTROL. 2 LETTERS NEXT TO EACHOTHER WITHOUT A COMMA INDICATES 1 SWITCH LEG
D a	WATTSTOPPER LMDM-101 DIMMER, 'a' INDICATES SWITCH LEG CONTROL. 2 LETTERS NEXT TO EACHOTHER WITHOUT A COMMA INDICATES 1 SWITCH LEG
M a	WATTSTOPPER DW-311 DUAL TECHNOLOGY 0-10V DIMMING WALL SWITCH OCCUPANCY SENSOR, 'a' INDICATES SWITCH LEG CONTROL.
PS	WATTSTOPPER LMLS-400 PHOTOSENSOR
R2	WATTSTOPPER LMPL-201 RECEPTACLE CONTROLLER
'PNL'-#a D#	PANEL IDENTIFICATION CIRCUIT IDENTIFICATION SWITCH-LEG IDENTIFICATION LIGHTING AND RECEPTACLE ROOM CONTROLLERS SHALL BE LOCATED ABOVE THE T-BAR CEILING FOR THE ROOMS THEY ARE CONTROLLING. IF THE ROOM WITH THE CONTROLLED DEVICES HAS A HARD CEILING THEN LOCATE THE ROOM CONTROLLERS AT THE NEAREST ADJACENT ROOM WITH A T-BAR CEILING. IF NO T-BAR CEILINGS EXISTS LOCATE THE ROOM CONTROLLERS IN THE ELECTRICAL ROOM. LABEL ALL ROOM LIGHTING AND RECEPTACLE CONTROLLERS WITH THE ROOM NAME, ROOM NUMBER, AND CIRCUIT(S) THEY CONTROL.
▨	SKYLIT OR PRIMARY SIDE DAYLIT ZONE
▧	SECONDARY SIDE DAYLIT ZONE
$a	SPST TOGGLE WALL SWITCH - 20A, 120/277V, `a' INDICATES CONTROL
$2	DPST TOGGLE WALL SWITCH - 20A, 120/277V
$3	3-WAY TOGGLE WALL SWITCH - 20A, 120/277V
$OC	OCCUPANCY SENSOR COMBO WALL SWITCH - 20A, 120/277V RATED
Ⓙ Ⓙ	CEILING OR WALL MOUNTED JUNCTION BOX
▭	PULLBOX(S) - SIZE AND NUMBER AS INDICATED
⦶	RECEPTACLE, DUPLEX - 20A, 120V & GROUND
⦵	RECEPTACLE, DUPLEX CEILING MOUNTED
◑	RECEPTACLE, DUPLEX - WITH ONE-HALF SWITCHED/CONTROLLED
◐	RECEPTACLE, DUPLEX- WITH GFCI PROTECTION
◐ WP	RECEPTACLE, DUPLEX - WITH GFCI PROTECTION IN WEATHERPROOF HOUSING
Ⓤ	20A, 120V RECEPTACLE, DUPLEX- WITH TWO USB PORTS
⊕	RECEPTACLE, DOUBLE DUPLEX - (2) 20A, 120V & GROUND
⊕	RECEPTACLE, DOUBLE DUPLEX CEILING MOUNTED
⊕	RECEPTACLE, DOUBLE DUPLEX WITH GFCI PROTECTION
⊕	RECEPTACLE, DOUBLE DUPLEX - WITH ONE-HALF SWITCHED/CONTROLLED
⊕	RECEPTACLE, DOUBLE DUPLEX - WITH ONE-HALF SWITCHED/CONTROLLED, FLUSH FLOOR BOX - CARPET PLATE WHERE REQUIRED.
⊙ ⊗	RECEPTACLE, SPECIAL - REFER TO FLOOR PLAN FOR RECEPTACLE SIZE.
▼	TELEPHONE OUTLET: PROVIDE & INSTALL 2-GANG BOX WITH 1" CONDUIT. STUB-UP INTO T-BAR CEILING. FOR HARD CEILINGS, RUN THE CONDUIT TO THE CABLE TERMINATION LOCATION INDICATED PER THE RISER DIAGRAM. PROVIDE A SINGLE 1" CONDUIT FOR UP TO CABLES.
# ▽	DATA OUTLET: PROVIDE & INSTALL 2-GANG BOX, FACEPLATE, AND QUANTITY OF CAT-6A DATA PORTS INDICATED WITH 1" CONDUIT TO THE CABLE TERMINATION LOCATION INDICATED PER THE RISER DIAGRAM OR IDF LOCATION INDICATED. PROVIDE A SINGLE 1" CONDUIT FOR UP TO 4 CABLES. LABEL ALL DATA PORTS PER THE OWNER'S REQUIREMENTS.
⊙	RECEPTACLE, FLUSH FLOOR BOX - CARPET PLATE WHERE REQUIRED.
◑	RECEPTACLE WITH ONE-HALF SWITCHED/CONTROLLED, FLUSH FLOOR BOX - CARPET PLATE WHERE REQUIRED.
⊚	TELEPHONE OUTLET, FLUSH FLOOR BOX - CARPET PLATE WHERE REQUIRED.
⊚	DATA OUTLET, FLUSH FLOOR BOX - CARPET PLATE WHERE REQUIRED.
●	INTERCOM OUTLET, FLUSH FLOOR BOX - CARPET PLATE WHERE REQUIRED.
⊙⊙⊙	FLUSH, FLOOR MOUNTED DUPLEX RECEPTACLE, DATA JACK, AND TELEPHONE JACK.
▽	DATA OUTLET, CEILING MOUNTED
((•))	CEILING OR WALL MOUNTED WIRELESS ACCESS POINT PROVISIONS. PROVIDE AND INSTALL TWO DATA CABLE FROM EACH ACCESS POINT TO IDF. FOR HARD CEILINGS TERMINATE THE CABLES INTO A BOX WITH COVER PLATE. FOR T-BAR CEILINGS TERMINATE THE CABLES INTO A CUBE CAT-6 PORT AND CURL UP THE CABLE WITH 10-FEET OF SLACK. LEAVE ABOVE THE T-BAR CEILING. PROVIDE A LABEL BENEATH THE T-BAR CEILING TO INDICATE DATA PORTS ABOVE.
—◗◖⊣	SURGE SUPPRESSION DEVICE
✱	DOME CAMERA-CEILING MOUNTED. OWNER FURNISHED OWNER INSTALL SURVEILLANCE CAMERA. CONTRACTOR TO PROVIDE AND INSTALL 4-INCH OCTAGONAL JUNCTION BOX IN CEILING SPACE AT CAMERA LOCATION INDICATED ON PLANS. CONTRACTOR TO PROVIDE AND INSTALL TWO DATA CABLE FROM EACH CAMERA LOCATION BACK TO THE IDF.
━━	3/4" THICK x 96" TALL FIRE RETARDANT PLYWOOD BACKBOARD, PROVIDE QUANTITY OF PLYWOOD SHEETS TO ENCOMPASS ENTIRE LENGTH INDICATED ON PLANS.
▭	TERMINAL CABINET - SURFACE OR FLUSH MOUNTED WITH FLAME RETARDANT PLYWOOD BACKBOARD
▬	PANELBOARD - SURFACE OR FLUSH MOUNTED
▨	DISTRIBUTION OR SWITCHBOARD
■—■	NEUTRAL LINK
≋	TRANSFORMER
T ☒	TRANSFORMER
☒ #A/#B/#C	FUSED DISCONNECT - MOTOR RATED. FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. DISCONNECTS TO BE FURNISHED WITH DUAL ELEMENT FUSES SIZED ACCORDING TO NAME PLATE DATA ON EQUIPMENT INSTALLED. SIZE AS : #A = AMPERE RATING OF DISCONNECT, #B = POLES, #C = FUSE SIZE REQUIRED. ALSO REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR DISCONNECT REQUIREMENTS. IF NO AMPERE RATING IS INDICATED ON PLAN SIZE DISCONNECT PER NAMEPLATE RATING AND CEC.
☐ #A/#B	UNFUSED DISCONNECT - MOTOR RATED, FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR: #1 = AMPERE RATING OF DISCONNECT, #2 = POLES REQUIRED. ALSO REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR DISCONNECT REQUIREMENTS. IF NO AMPERE RATING IS INDICATED ON PLAN SIZE DISCONNECT PER NAMEPLATE RATING AND CEC.
☒	MAGNETIC MOTOR STARTER FURNISHED, INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
Ⓜ	MOTOR - FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR AND CONNECTED BY ELECTRICAL CONTRACTOR.
—Ⓜ	METER
⊞	INTRUSION ALARM DOOR CONTACT
#	INTRUSION ALARM KEYPAD
⊐◆	WALL OR CEILING MOUNTED INTRUSION ALARM MOTION SENSOR.
Ⓖ Ⓖ	WALL OR CEILING MOUNTED GLASS BREAK DETECTOR.
⏚	GROUND
⌒	CIRCUIT BREAKER
K	KEY INTERLOCKED CIRCUIT BREAKER. DASHED LINE INDICATES WHICH BREAKERS ARE KEY INTERLOCKED WITH EACH OTHER.
— — —	EXISTING ABOVE GROUND CONDUIT
—··—	EXISTING UNDERGROUND CONDUIT
━ ━ ━	WIREMOLD 5400 SERIES DUAL CHANNEL IVORY RACEWAY. PROVIDE ALL ACCESSORIES, FITTINGS, DIVIDERS, ETC FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
☒	WIREMOLD RACEWAY VERTICAL RUNS. PROVIDE ALL ELBOWS, FITTINGS, AND CONNECTORS AS NECESSARY FOR A COMPLETE RACEWAY SYSTEM.
▨ ⦶	NEW ELECTRICAL EQUIPMENT
▨ ⦶	EXISTING ELECTRICAL EQUIPMENT TO REMAIN
▨ ⦶	EXISTING ELECTRICAL EQUIPMENT TO BE DEMOLISHED
—┼—	GROUND WIRE WITH GREEN INSULATION SIZE PER N.E.C., U.O.N.
━━	CONDUIT CONCEALED IN WALL OR CEILINGS. PROVIDE NUMBER OF WIRES NECESSARY FOR BRANCH CIRCUIT, SWITCH LEGS, ETC. PROVIDE SEPARATE NEUTRALS FOR EACH PHASE WIRE. SIZE SHALL BE DETERMINED BY OCPD CONNECTED TO THE PHASE CONDUCTORS AND VOLTAGE DROP CONSIDERATIONS. ALL CONDUITS SHALL HAVE GROUND CONDUCTOR(S). SIZE CONDUIT PER NEC.
— — —	CONDUIT CONCEALED UNDERGROUND OR BELOW FLOOR, MINIMUM SIZE IS 3/4". PROVIDE NUMBER OF WIRES NECESSARY FOR BRANCH CIRCUIT, SWITCH LEGS, ETC. PROVIDE SEPARATE NEUTRALS FOR EACH PHASE WIRE. SIZE SHALL BE DETERMINED BY OCPD CONNECTED TO THE PHASE CONDUCTORS AND VOLTAGE DROP CONSIDERATIONS. ALL CONDUITS SHALL HAVE GROUND CONDUCTOR(S). SIZE CONDUIT PER NEC.
—○	CONDUIT- UP
—●	CONDUIT-DOWN
(#)	SHEET NOTE NUMBER - #, SEE NOTE DESCRIPTION ON SAME SHEET.
◇#	GENERAL NOTE NUMBER - #, SEE NOTE DESCRIPTION ON SAME SHEET.
#/#	REFERENCE TO PLAN/DETAIL/DIAGRAM
XX X	DESIGNATES SIZE AND QUANTITY OF FEEDERS SEE FEEDER SCHEDULE
TV TV	PROVIDE AND INSTALL TWO MALE F-TYPE CONNECTORS AND TV FACEPLATE. PROVIDE AND INSTALL RG-6 COAXIAL CABLE FROM EACH CONNECTOR TO THE CABLE TV HEADEND & TERMINATE WITH A MALE F-TYPE CONNECTOR.
TV	TELEVISION OUTLET IN FLUSH FLOOR BOX - CARPET PLATE WHERE REQUIRED, SEE TELEVISION SYMBOL.
(5) (4) (2)	NUMBER IN PARENTHESIS INDICATES QUANTITY OF DEVICES. TYPICAL FOR ALL TYPES OF DEVICES.
Ⓢ Ⓢ	SPEAKER - WALL OR CEILING MOUNTED, REFER TO RISER DIAGRAM AND/OR NOTES ON PLANS AND SPECIFICATIONS.
Ⓒ	CLOCK, REFER TO RISER DIAGRAM AND/OR NOTES ON PLANS AND SPECIFICATIONS.
CS	COMBINATION CLOCK & SPEAKER, REFER TO RISER DIAGRAM AND/OR NOTES ON PLANS AND SPECIFICATIONS.
— · —	1 HR - RATED WALL (REFER TO ARCHITECTS DRAWINGS)
— ··· —	2 HR - RATED WALL (REFER TO ARCHITECTS DRAWINGS)
MS	ENERGY-REDUCING MAINTENANCE SWITCH WITH LOCAL STATUS INDICATOR: PROVIDE A DEDICATED 120V CIRCUIT. FROM THE NEAREST 120VOLT SOURCE OR HAVE BOARD MANUFACTURER PROVIDE A SMALL STEP DOWN TRANSFORMER IN BOARD FOR 120V POWER.

ELECTRICAL SHEET INDEX

SITE DEVELOPMENT

SD/E101	SITE DEVELOPMENT - DEMOLITION ELECTRICAL SITE PLAN
SD/E102	SITE DEVELOPMENT - ELECTRICAL SITE PLAN
SD/E103	SITE DEVELOPMENT - PARTIAL ELECTRICAL SITE PLAN

TYPICAL INFORMATION

X/E101	ELECTRICAL SYSTEMS - SYMBOLS LEGEND, ABBREVIATIONS, AND NOTES
X/E102	ELECTRICAL SYSTEMS - SYMBOLS LEGEND, ABBREVIATIONS, AND NOTES CONTINUED
X/E103	ELECTRICAL SYSTEMS - LIGHTING FIXTURE SCHEDULE
X/E104	ELECTRICAL SYSTEMS - ELECTRICAL SINGLE LINE DIAGRAM
X/E105	ELECTRICAL SYSTEMS - ELECTRICAL MECHANICAL SCHEDULES AND RISER DIAGRAMS
X/E106	ELECTRICAL SYSTEMS - PANEL SCHEDULES
X/E107	ELECTRICAL SYSTEMS - TYPICAL ELECTRICAL DETAILS
X/E108	ELECTRICAL SYSTEMS - TYPICAL ELECTRICAL DETAILS
X/E109	ELECTRICAL SYSTEMS - TYPICAL FIRE ALARM SYMBOL LEGEND, NOTES, AND DETAILS
X/E110	FIRE ALARM SYSTEM - FIRE ALARM FLOOR PLANS - FIRST FLOOR
X/E111	TITLE 24 COMPLIANCE FORMS - POWER
X/E112	TITLE 24 COMPLIANCE FORMS - INDOOR LIGHTING
X/E113	ELECTRICAL SYSTEMS - DEMOLITION POWER AND SIGNAL FLOOR PLAN - FIRST FLOOR
X/E114	ELECTRICAL SYSTEMS - POWER AND SIGNAL FLOOR PLAN - FIRST FLOOR
X/E115	ELECTRICAL SYSTEMS - POWER AND SIGNAL FLOOR PLAN - SECOND FLOOR
X/E116	ELECTRICAL SYSTEMS - DEMOLITION LIGHTING FLOOR PLAN - FIRST FLOOR
X/E117	ELECTRICAL SYSTEMS - LIGHTING FLOOR PLAN - FIRST FLOOR
X/E118	ELECTRICAL SYSTEMS - EMERGENCY PHOTOMETRIC LIGHTING PLAN - FIRST FLOOR
X/E119	ELECTRICAL SYSTEMS - DEMOLITION ELECTRICAL ROOF PLAN
X/E120	ELECTRICAL SYSTEMS - ELECTRICAL ROOF PLAN

ELECTRICAL EQUIPMENT NOTES

1. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF ELECTRICAL EQUIPMENT, DEVICES AND WIRING. SEE SECTION 260000 OF THE SPECIFICATIONS.
2. FOR THE EXACT LOCATION OF ELECTRICAL EQUIPMENT AND DEVICES SEE THE ARCHITECTURAL ELEVATIONS, DETAILS AND DIMENSIONS SHOWN ON THE DRAWINGS.

DEMOLITION AND CLEANUP NOTES

1. REMOVE ALL MATERIAL CAUSED BY THE DEMOLITION WORK FROM THE SITE AND LEAVE THE PREMISES CLEAN AND FREE OF DEBRIS.
2. PATCH HOLES WHERE FASTENERS, DEVICES OR EQUIPMENT HAS BEEN REMOVED. PAINT PATCH TO MATCH SURROUNDING AREA.
3. ALL DEMOLITION SHALL COMPLY WITH CH. 33 CBC AND CHAPTER 33 CFC.

ARC FLASH WARNING LABEL REQUIREMENTS

CONDITION 1:
EXISTING EQUIPMENT WITHIN SCOPE OF THE PROJECT AND ALL NEW EQUIPMENT

DANGER

ELECTRICAL ARC FLASH HAZARD

Will cause severe injury or death.
Turn OFF ALL power before opening. Follow ALL requirements in NFPA 70E for safe work practices and for Personal Protective Equipment.

1. ARC FLASH HAZARD HAZARD WARNING LABELS SHALL BE FIELD MARKED/PLACED ON ALL NEW AND EXISTING ELECTRICAL DISTRIBUTION BOARDS, SWITCHBOARDS, TRANSFORMERS, PANELS, PANELBOARDS, DISCONNECTS, & MOTOR CONTROL CENTERS THAT ARE WITHIN THE SCOPE OF THIS PROJECT PER CEC 110.16. LABELS SHALL BE APPLIED TO EXISTING EQUIPMENT WHERE NEW CONNECTIONS ARE MADE. THE LABELS SHALL MEET THE REQUIREMENTS OF 110.21(B) AND ANSI Z535.4-2011 GUIDELINES BY USING EFFECTIVE COLORS, SYMBOLS OR ANY COMBINATION THEREOF.

CONDITION 2:
COMPLETELY NEW DISTRIBUTION SYSTEMS ONLY

DANGER

Arc Flash and Shock Hazard

Nominal System Voltage ______
Arc Flash Boundary ______
Restricted Approach ______
Limited Approach ______
Incident Energy (cal/cm²) ______
Working Distance ______
OR
PPE Hazard Category ______
Arc Rating of Clothing ______

Arc-rated PPE: ☐ Face shield ☐ Coverall ☐ Long-sleeve shirt ☐ Balaclava ☐ Hard hat liner ☐ Flash suit jacket ☐ Gloves ☐ ☐ Flash suit pants ☐ Jacket ☐ ☐ Flash suit hood ☐ Parka ☐ ☐ Pants ☐ Rainwear ☐

Additional PPE: ☐ Leather footwear ☐ Hard hat ☐ ☐ Safety goggles ☐ ☐ Safety glasses ☐ ☐ Hearing protection ☐ ☐ Heavy duty leather gloves ☐

Equipment ID:

1. ARC FLASH HAZARD WARNING LABELS FOR AN ENTIRELY NEW ELECTRICAL SERVICE AND DISTRIBUTION SYSTEMS SHALL BE UTILIZED AND ALL ELECTRICAL COMPONENTS OF THE DISTRIBUTION EQUIPMENT SHALL HAVE AN ARC FLASH WARNING LABEL WITH THE FOLLOWING INFORMATION:
    - 1.1. NOMINAL SYSTEM VOLTAGE
    - 1.2. ARC FLASH BOUNDARY
    - 1.3. MINIMAL ARC RATING OF CLOTHING
    - 1.4. EXACTLY ONE OF THE FOLLOWING:
        - 1.4.1. INCIDENT ENERGY & CORRESPONDING WORKING DISTANCE
        - 1.4.2. THE ARC FLASH PPE CATEGORY
2. THE LABELS SHALL MEET THE REQUIREMENTS OF CEC 110.21(B) AND ANSI Z535.4-2011 GUIDELINES BY USING EFFECTIVE COLORS, SYMBOLS OR ANY COMBINATION THEREOF.
3. THE CONTRACTOR SHALL HAVE THE EQUIPMENT MANUFACTURER PROVIDE THE REQUIRED LABELING OR OBTAIN THE SERVICES OF A THIRD PARTY OR THE ELECTRICAL ENGINEER OF RECORD.

CONDITION 3:
NEW SERVICES

1. ARC FLASH HAZARD WARNING LABELS SHALL BE FIELD MARKED/PLACED ON ALL NEW SERVICE EQUIPMENT WITH THE FOLLOWING INFORMATION.
    - 1.1. NOMINAL SYSTEM VOLTAGE
    - 1.2. AVAILABLE FAULT CURRENT AT THE SERVICE OVERCURRENT PROTECTIVE DEVICES
    - 1.3. CLEARING TIME OF THE SERVICE OVERCURRENT PROTECTIVE DEVICES BASED ON THE AVAILABLE FAULT CURRENT AT THE SERVICE EQUIPMENT
    - 1.4. THE DATE THE LABEL WAS APPLIED
2. THE LABELS SHALL MEET THE REQUIREMENTS OF CEC 110.21(B) AND ANSI Z535.4-2011 GUIDELINES BY USING EFFECTIVE COLORS, SYMBOLS OR ANY COMBINATION THEREOF.

UTILITY COMPANY SERVICE NOTES

1. PRIOR TO ORDERING THE MAIN SWITCH BOARD SERVICE EQUIPMENT, THE CONTRACTOR SHALL PROVIDE A COPY OF THE REVIEWED BOARD SUBMITTAL TO THE UTILITY COMPANY WHERE THIS WORK IS BEING PERFORMED. ALL UTILITY SERVICE WORK SHALL BE DONE IN ACCORDANCE WITH THE UTILITY COMPANY RULE-15/16 DRAWINGS.

DSA File No.:

DSA Application No.:

Agency Approval

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SCAN ME

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Child Nutrition Kitchen Remodel

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Project

Electrical Systems-Symbol Legend, Abbreviations, and Notes
Drawing

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MICHAEL K. FENNACY No. C23724 Ren. 4-30-23

Architect

No.	Revision/Submission	Date

Revision

Designed By: Designer
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Scale:
Drawn By: Author
Project Number: 2310
Checked By: Checker
Date: Issue Date
Reviewed By: Approver

X/E101

CALIFORNIA CODE OF REGULATIONS

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR (2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR (2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR (2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR(2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR (2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2019 ASME A17.1/CSA B44-2019 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2022 CBC PART 2 CH 35)NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION.

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED) - 2022 EDITION
NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED) - 2019 EDITION
NFPA 17 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS - 2021 EDITION
NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS - 2021 EDITION
NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION - 2019 EDITION
NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED) - 2019 EDITION
NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED) - 2022 EDITION
NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES - 2019 EDITION
NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED) - 2018 EDITION
UL 300 - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT - 2005 (R2010)
UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES - 2003 EDITION
UL 521 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS - 1999 EDITION
ICC 300 - STANDARD ON BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS - 2017 EDITION

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.

TRENCHING AND EXCAVATION NOTES

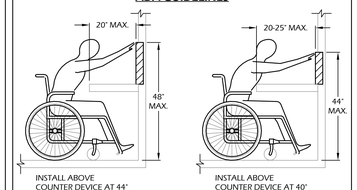
1. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CALL UNDERGROUND SERVICE ALERT "USA" BEFORE THE COMMENCEMENT OF ANY EXCAVATION. EACH CONTRACTOR SHALL HAVE THEIR OWN USA TICKET NUMBER FOR EACH PROJECT LOCATION AND SHALL NOT RIDE ON ANY OTHER CONTRACTORS TICKET. CONTRACTOR SHALL NOTIFY THE OWNER 72 HOURS PRIOR TO EXCAVATION.
2. THIS CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING NECESSARY FOR THE INSTALLATION OF EQUIPMENT AND MATERIALS. ALL PATCHING SHALL ACCURATELY MATCH THE ADJOINING WORK.
3. THIS CONTRACTOR SHALL DO EXCAVATING REQUIRED FOR THE INSTALLATION OF THE WORK. UNDERGROUND LINES OUTSIDE THE BUILDINGS SHALL BE INSTALLED WITH A MINIMUM OF 24" OF COVER, EXCEPT DEPTH OF UTILITY SERVICES SHALL COMPLY WITH RESPECTIVE UTILITY COMPANY REQUIREMENTS.
4. BEFORE COMPACTION, MOISTEN OR AERATE EACH LAYER AS NECESSARY TO PROVIDE OPTIMUM MOISTURE CONTENT. COMPACT EACH LAYER TO REQUIRED PERCENTAGE OF MAXIMUM DRY DENSITY OR RELATIVE DRY DENSITY FOR EACH AREA CLASSIFICATION. DO NOT PLACE BACKFILL OR FILL MATERIAL ONSURFACES THAT ARE MUDDY, FROZEN, OR CONTAIN FROST OR ICE.
5. STRUCTURES, BUILDING SLABS, WALKWAYS, AND STEPS: COMPACT TOP 6" OF SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MATERIAL AT 92% MAXIMUM RELATIVE COMPACTION.
6. COMPACT TOP 6" OF SUBGRADE MATERIAL AT 85% RELATIVE COMPACTION.
7. COMPACT TOP 6" OF SUBGRADE IMMEDIATELY BENEATH THE BASE COURSE AT 95% MINIMUM RELATIVE COMPACTION.
8. ANY SURPLUS EXCAVATION RESULTING FROM THESE EXCAVATIONS SHALL BE HAULED OFF.
9. AFTER ALL TRENCHES HAVE BEEN TAMPED IN, RAKE OUT ALL HIGH AND LOWAREAS ALONG THE TRENCH LINE. ALL CLODS AND SOLID ROCKS EXPOSED ONTHE SURFACE AS A RESULT OF THE EXCAVATION SHALL BE BROKEN DOWN AND OR CLEANED UP. ALL TRENCH LINES SHALL BE RAKED LEVEL WITH EXISTING GRADE.
10. ELECTRICAL CONDUIT SHALL NOT BE RUN IN EXCAVATIONS PROVIDED FOR PLUMBING OR HEATING PIPES, UNLESS SEPARATED BY A MINIMUM OF 12 INCHES.
11. PATCH ALL TRENCHED AREAS TO MATCH EXISTING.
12. HAND EXCAVATE IN AREAS WHERE TRENCHING IS DIFFICULT DUE TO STRUCTURAL OBSTRUCTIONS OR EXISTING UNDERGROUND CONDUIT.
13. THE CONTRACTOR SHALL WALK THE SITE WITH THE DISTRICT TO IDENTIFY ALL EXISTING CONDUITS AND PIPES.
14. CONTRACTOR SHALL RETAIN AND PAY FOR THE SERVICES OF A SOILS LAB TO TEST FOR THE COMPACTION OF THE BACKFILL. A SOILS PROFILE SHALL BE DONE OF THE EXCAVATED NATIVE TRENCHED DIRT SO THE COMPACTION TEST CAN BE COMPARED WITH THE NATIVE DIRT PROFILE. THE CONTRACTOR SHALL PROVIDE ALL COMPACTION TEST OF THE TRENCH REQUIRED TO MEET 95% COMPACTION REQUIREMENT. AN INSPECTED AND SIGNED OFF COMPACTION TESTING REPORT SHALL BE PROVIDED BY THE SOILS TESTING LAB AND COPY OF THE COMPACTION TEST SHALL BE PROVIDED TO THE ENGINEER OF RECORD/PROJECT COORDINATOR PRIOR TO INSTALLING THE HARDSCAPE. THE CONTRACTOR SHALL/WILL BE REQUIRED TO PAY FOR ALL TEST UNTIL THE COMPACTION RESULTS MEETS OR EXCEED THE COMPACTION TEST.
15. CONTRACTOR TO CONDUCT GROUND PENETRATING RADAR STUDY AND IT SHALL BE PERFORMED ALONG THE ENTIRE TRENCHING PRIOR TO ANY TRENCHING WORK.

ABBREVIATIONS

A	AMPERES
ABVC	ABOVE COUNTER
AF	AMP FRAME
A.F.F.	ABOVE FINISHED FLOOR
AL	ALUMINUM CONDUCTOR OR BUS
AT	AMP TRIP
BESS	BATTERY ENERGY STORAGE SYSTEM
BD	BOARD
C	CONDUIT
CAB	CABINET
CAN	CODE APPLICATION NOTICE
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
C-C	CENTER TO CENTER
CKT	CIRCUIT
CNDO	CONDUIT WITH PULL WIRE
COM	COMMUNICATIONS
CPB	COMMUNICATIONS PULL BOX
CU	COPPER CONDUCTOR OR BUS
DB	DISTRIBUTION BOARD
DIST	DISTRIBUTION
(E)	EXISTING
EMER	EMERGENCY
EMERPO	EMERGENCY POWER-OFF
EMT	ELECTRIC METALLIC TUBING
EOL	END-OF-LINE
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
F	FUSE
FA/F.A.	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
F.B.O.	FURNISHED BY OTHER/FURNISHED BY OWNER
FLA	FULL LOAD AMPS
FS	FLOW SWITCH
G	GREEN GROUND WIRE
GFCI	GROUND FAULT CIRCUIT INTERRUPT
GND	GROUND
GRS	GALVANIZED RIGID STEEL
HCAI	DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION (FORMERLY OSHPD)
HID	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
IBE	INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR
IBO	INSTALLED BY OTHER
IG	ISOLATED GROUND
J/JB	JUNCTION BOX
KV	KILOVOLTS
KVA	KILOVOLTS-AMPERES
KW	KILOWATT
LCP	LIGHTING CONTROL PANEL
LTG	LIGHTING
LV	LOW VOLTAGE
MCC	MOTOR CONTROL CENTER
MTD	MOUNTED
MTG	MOUNTING
MLO	MAIN LUG ONLY
MSB	MAIN SWITCHBOARD
MPOE	MINIMUM POINT OF ENTRY
N	NEUTRAL
(N)	NEW
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NOTC	NOMINAL OPERATING CELL TEMPERATURE
NTS	NOT TO SCALE
OCPD	OVER CURRENT PROTECTION DEVICE
OFOI	OWNER FURNISHED/ OWNER INSTALLED
OSHPD	OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
P	POLE
PA/P.A.	PUBLIC ADDRESS SYSTEM
PB	PULL BOX
PILC	PAPER INSULATED, LEAD CLAD
PIV	POST INDICATOR VALVE
PNL	PANEL
PTC	PHOTOVOLTAICS FOR UTILITY SCALE APPLICATIONS TEST CONDITIONS
PWR	POWER
REC.	RECEPTACLE
REF.	REFRIGERATOR
RM	ROOM
RS	RAPID START
SCTB	SIGNAL AND COMMUNICATION TERMINAL BOARD
SIG	SIGNAL
SL	SECURITY LIGHT
STC	SIGNAL TERMINAL CABINET
SW	SWITCH
TEL	TELEPHONE
TERM	TERMINAL
TPB	TELEPHONE PULL BOX
TS	TAMPER SWITCH
TTB	TELEPHONE TERMINAL BOARD
TTC	TELEPHONE TERMINAL CABINET
TYP	TYPICAL
U.C.	UNDER COUNTER
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VOLTS/VOLTAGE
VOIP	VOICE OVER INTERNET PROTOCOL
W	WATTS
WAP	WIRELESS ACCESS POINT
WM	WIREMOLD
WP	WEATHERPROOF
XMFR	TRANSFORMER
∅	PHASE

TYPICAL WALL DEVICE MOUNTING HEIGHTS

ADA GUIDELINES



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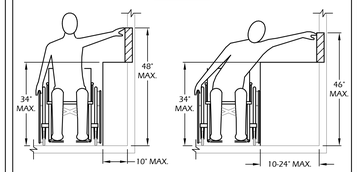

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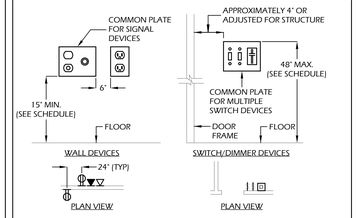

DEVICE TYPE	MOUNTING HEIGHT
SWITCHES	NO MORE THAN 48" A.F.F. TO TOP OF DEVICE
DIMMERS	NO MORE THAN 48" A.F.F. TO TOP OF DEVICE
RECEPTACLES	NO LESS THAN 15" A.F.F. TO BOTTOM OF DEVICE
TEL. OUTLETS (OFFICE)	NO LESS THAN 15" A.F.F. TO BOTTOM OF DEVICE
TEL. OUTLETS (CLASSROOMS)	NO MORE THAN 48" A.F.F. TO TOP OF DEVICE
DATA OUTLETS	NO LESS THAN 15" A.F.F. TO BOTTOM OF DEVICE
INTERCOM OUTLETS	NO LESS THAN 15" A.F.F. TO BOTTOM OF DEVICE
TELEVISION OUTLETS	NO LESS THAN 15" A.F.F. TO BOTTOM OF DEVICE
MICROPHONE OUTLETS	NO LESS THAN 15" A.F.F. TO BOTTOM OF DEVICE
RECEPTACLES, OUTLETS, SWITCHES, ETC. MOUNTED ABOVE COUNTERS	WITHIN THE REACH RANGE SPECIFIED IN SECTION 11B-308 OF THE CALIFORNIA BUILDING CODE.
CLOCKS	AS SHOWN ON DRAWINGS
SPEAKERS	AS SHOWN ON DRAWINGS
HAND DRYERS	REFER TO ARCHITECTURAL PLANS
HAIR DRYERS	REFER TO ARCHITECTURAL PLANS
WALL SCONCES	ABOVE 80" FOR PROJECTIONS INTO CORRIDORS OF MORE THAN 4" OR AS SHOWN ON DRAWING
EXIT LIGHTS	SEE DETAILS
EXIT MARKERS	SEE DETAILS
EMERGENCY LIGHTING WALL PACK	AS SHOWN ON DRAWINGS
KEYPADS	NO MORE THAN 48" A.F.F. TO TOP OF DEVICE
WIREMOLD	MOUNTING HEIGHT SHALL BE SUCH THAT THE LOWEST DEVICE MOUNTED ON WIREMOLD IS AT 15" A.F.F. TO BOTTOM OF DEVICE, U.O.N.

NOTES:
1. ALL VERTICAL MEASUREMENTS ARE 'ABOVE FINISHED FLOOR' - (A.F.F.).
2. SEE DRAWINGS FOR NON-TYPICAL MOUNTING HEIGHTS.
3. WHERE MOUNTING HEIGHTS ARE NOT SHOWN, REFER TO ARCHITECTURAL PLANS.
4. RECEPTACLES, LIGHT SWITCHES, TELEPHONE-DATA OUTLETS AND OTHER RECESSED ELECTRICAL DEVICES THAT ARE SHOWN BACK-TO-BACK ON WALLS SEPARATING CORRIDORS, ROOMS AND OPEN AREAS SHALL BE SEPARATED HORIZONTALLY BY AT LEAST 24 INCHES. THIS REQUIREMENT IS TO SATISFY BOTH THE CONDITIONS AT FIRE RATED CORRIDORS AND SOUND TRANSMISSION FACTOR BETWEEN ALL CORRIDORS, ROOMS AND OPEN AREAS INCLUDING EXTERIOR WALLS.

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REGISTERED PROFESSIONAL ENGINEER — JOHN BORRELLI — No.E16390 — ELECTRICAL — STATE OF CALIFORNIA

SCAN ME

Child Nutrition Kitchen Remodel

Madera Unified School District
769 S. Pine St, Madera, CA 93637

Project

Electrical Systems-Symbol Legend, Abbreviations, and Notes Continued

Drawing

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LICENSED ARCHITECT — BRADLEY K. FERNANDES — No. C23724 — Rev. 4-30-25 — STATE OF CALIFORNIA

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LIGHTING FIXTURE SCHEDULE (#)

TYPE	LIGHTS	MANUFACTURER AND MODEL	LAMPS	REMARKS	WATTS	LBS
A1		DAY-BRITE # 2EVG38LH840-4-D-UNV-DIM-TAP	LED	2-FT. x 4-FT., 3,800 LUMENS (NOMINAL) LED FIXTURE RECESS MOUNTED IN T-BAR CEILING. FIXTURE SHALL HAVE CONTINOUS 0-10V DIMMING DRIVER.	27	22
A2		DAY-BRITE # 2EVG43LH840-4-D-UNV-DIM-TAP	LED	2-FT. x 4-FT., 4,300 LUMENS (NOMINAL) LED FIXTURE RECESS MOUNTED IN T-BAR CEILING. FIXTURE SHALL HAVE CONTINOUS 0-10V DIMMING DRIVER.	32	22
A3		DAY-BRITE # 2EVG48LH840-4-D-UNV-DIM-TAP	LED	2-FT. x 4-FT., 4,800 LUMENS (NOMINAL) LED FIXTURE RECESS MOUNTED IN T-BAR CEILING. FIXTURE SHALL HAVE CONTINOUS 0-10V DIMMING DRIVER.	36	22
B1		DAY-BRITE # 2EVG30L840-2-D-UNV-DIM-TAP	LED	2-FT. x 2-FT., 3,000 LUMENS (NOMINAL) LED FIXTURE RECESS MOUNTED IN A T-BAR CEILING. FIXTURE SHALL HAVE 0-10V, CONTINUOUS DIMMING DRIVER.	25	14
C1		H.E. WILLIAMS #6DR-TL-L20/840-DIM-UNV-SW-OF-WH-F1	LED	6" DIAMETER, 2,000 LUMEN (NOMINAL) LED CAN LIGHT RECESS MOUNTED IN A T-BAR CEILING. FIXTURE SHALL HAVE 0-10V CONTINUOUS DIMMING.	19.5	10
D1		H.E. WILLIAMS #LRX4-G-4-L8/840-DMA-DIM-UNV	LED	4-IN. x 4-FT., 3,260 LUMEN(NOMINAL) LED FIXTURE, RECESS MOUNTED IN T-BAR CEILING. FIXTURE SHALL HAVE CONTINOUS 0-10V DIMMING DRIVER.	26.8	20
E1		EVENLITE #WLEM-BZ	LED	EXTERIOR EMERGENCY LIGHT MOUNTED ABOVE DOOR; ONLY ON DURING POWER OUTAGE.	15	10
K1		KENALL #CSEDO-24-45LD-40K8-DIM1-DV-5F-4H-SYM-FN	LED	2-FT. x 4-FT., 6,709 LUMEN, SEALED, LED, FOOD ZONE FIXTURE, RECESS MOUNTED IN A SUSPENDED ACOUSTICAL CEILING. FIXTURE SHALL HAVE CONTINOUS 0-10V DIMMING DRIVER.	46	15
X		CHLORIDE #CN6GCA1ICTA	LED	UNIVERSAL MOUNTED, EDGE LIT EXIT SIGN WITH CLEAR AND GREEN LETTERS. PROVIDE INDICATING ECHELON ARROWS REQUIRED PER DIRECTION INDICATED. PROVIDE TEST SWITCH, INDICATING LEDS, AND BATTERY PACK WITH INTEGRAL CHARGER. REFER TO FLOOR PLANS FOR WALL OR CEILING MOUNTING LOCATIONS.	5	10

SCHEDULES NOTES

1. COORDINATE ALL COLORS WITH OWNER/ARCHITECT PRIOR TO ORDERING. CONTRACTOR SHALL PROVIDE COLOR SAMPLES DURING SUBMITTAL STAGE
2. ALL CLEAR, ACRYLIC, PRISMATIC LENSES ARE TO BE MINIMUM 0.125" PATTERN K12, U.O.N
3. ALL LEDS SHALL HAVE A CRI OF 0.8 AND COLOR TEMPERATURE OF 4000K.
4. ALL HALF SHADED FIXTURES SHALL HAVE AN EMERGENCY DRIVER WITH BATTERY BACKUP OR LIGHTING INVERTER (COORDINATE WITH LIGHTING FLOOR PLAN) IN ORDER TO PROVIDE A MINIMUM OF 90 MINUTES OF BACKUP IN THE EVENT OF POWER OUTAGE WITH MINIMUM 1100 LUMEN OUTPUT. THE BATTERY CHARGER SHALL BE CONNECTED TO THE UNSWITCHED SOURCE.
5. ALL EXIT LIGHT FIXTURES SHALL BE CONNECTED TO AN UNSWITCHED SOURCE.
6. ALL RECESS MOUNTED FIXTURES SHALL COME WITH BAR HANGERS. THE CONTRACTOR SHALL VERIFY CEILING TYPE PRIOR TO ORDERING.
7. ALL DRIVERS SHALL HAVE LESS THAN 10% THD.
8. FIXTURE TYPE IS SHOWN WITHIN MOST FIXTURES.
9. PRIOR TO ORDERING FIXTURES REFER TO THE LIGHTING PLAN FOR THE CORRECT VOLTAGES TO BE UTILIZED FOR THE FIXTURES.

LIGHTING INVERTER UNIT SPECIFICATIONS

1. ALL EMERGENCY SOURCE CIRCUITS SHALL BE INSTALLED IN SEPERATE RACEWAYS (FROM NORMAL POWER), PER 2020 NEC 700.10(B), OR APPLICABLE CODE AT THE TIME OF PERMITTING.
2. INPUT SHALL BE EQUIPPED WITH UL294 SURGE PROTECTION AND 1HZ NOMINAL SYNCHRONIZING SLEW RATE.
3. OUTPUT VOLTAGE STATIC REGULATION SHALL BE +/- 5% FOR 100% RESISTIVE LOAD.
4. OUTPUT DISTORTION SHALL BE 5% THD MAXIMUM.
5. OVERLOAD RATING: 150% MOMENTARY; 115% FOR 10 MINUTES.
6. TRANSFER TIME: LESS THAN 2 MILLISECONDS
7. BATTERY SHALL BE SEALED LEAD CALCIUM, 10 YEAR LIFE, 90 MINUTE RUN TIME, WITH AUTO-DISCONNECT FOR LOW BATTERY VOLTAGE.
8. PROVIDE RS232 PORT AND RJ-45 ETHERNET PORT FOR EXTERNAL COMMUNICATIONS.
9. INVERTER SHALL BE PWM TYPE.
10. PROVIDE INTERNAL MAINTENANCE BYPASS.
11. PROVIDE IN NEMA 1 ENCLOSURE, FRONT ACCESS ONLY.
12. PROVIDE FACTORY STARTUP AND TEST OF UNIT TO THE SATISFACTION OF BUILDING INSPECTION AUTHORITIES AND WITH MAXIMUM 4 HOURS OF PERSONNEL TRAINING FOLLOWING STARTUP.
13. AUTO SELF TESTING.
14. PROVIDE OUTPUT CIRCUIT BREAKERS RATED 20AMPS EACH WITH DEDICATED CIRCUITS FOR EACH OF THE EMERGENCY LIGHTING LOADS. MINIMUM 5 OUTPUT BREAKERS
15. SEISMIC QUALIFIED MOUNTING.

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REGISTERED PROFESSIONAL ENGINEER — No.E16390 — ELECTRICAL — STATE OF CALIFORNIA

SCAN ME

Child Nutrition Kitchen Remodel

Madera Unified School District
769 S. Pine St, Madera, CA 93637

Project

Electrical Systems-Lighting Fixture Schedule

Drawing

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LICENSED ARCHITECT — MICHAEL K. FENNELL — No. C23724 — Exp. 4-30-25 — STATE OF CALIFORNIA

Architect

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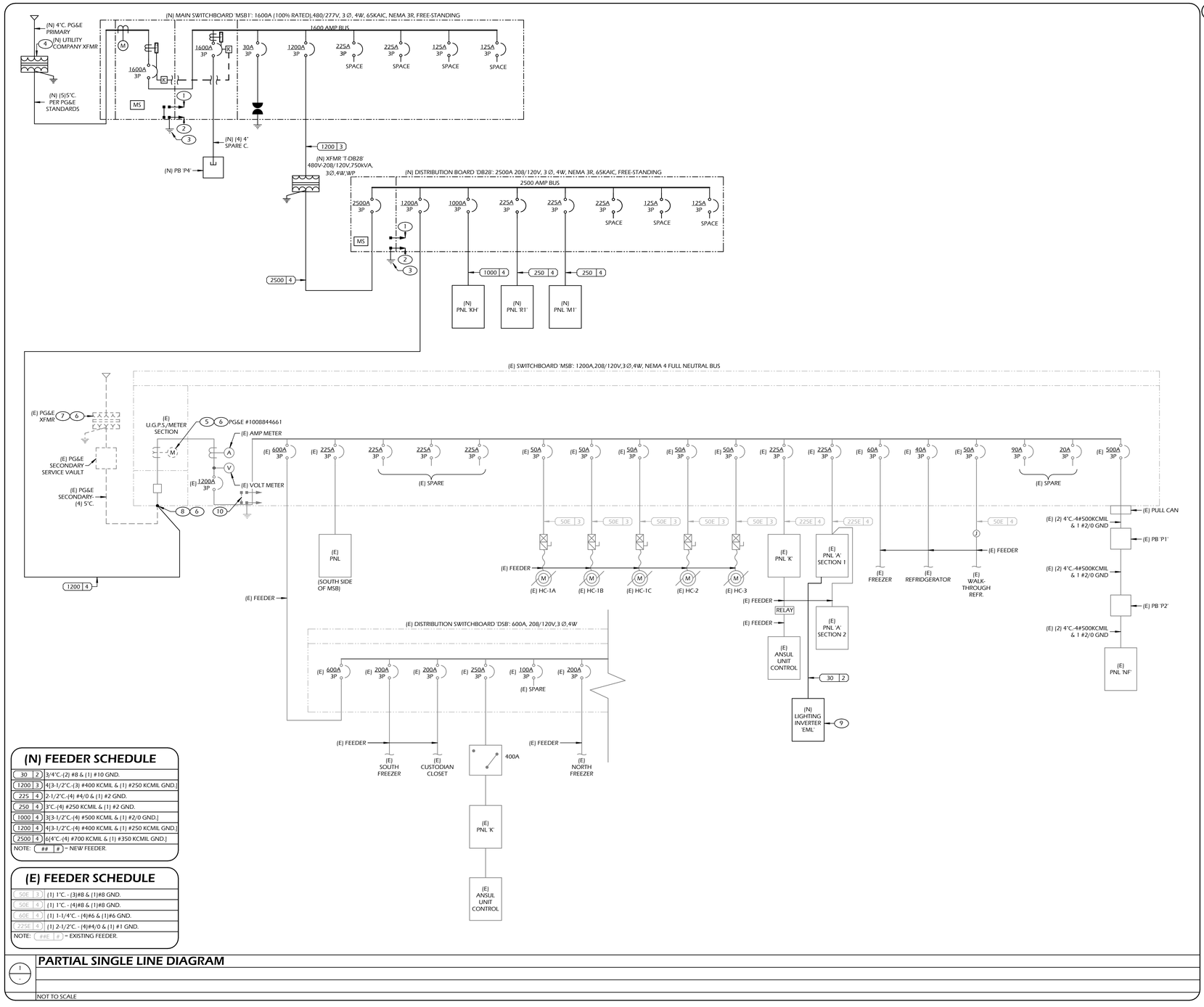

(N) FEEDER SCHEDULE

30 | 2	3/4"C.-(2) #8 & (1) #10 GND.
1200 | 3	4[3-1/2"C.-(3) #400 KCMIL & (1) #250 KCMIL GND.]
225 | 4	2-1/2"C.-(4) #4/0 & (1) #2 GND.
250 | 4	3"C.-(4) #250 KCMIL & (1) #2 GND.
1000 | 4	3[3-1/2"C.-(4) #500 KCMIL & (1) #2/0 GND.]
1200 | 4	4[3-1/2"C.-(4) #400 KCMIL & (1) #250 KCMIL GND.]
2500 | 4	6[4"C.-(4) #700 KCMIL & (1) #350 KCMIL GND.]

NOTE: (## | #) = NEW FEEDER.

(E) FEEDER SCHEDULE

50E | 3	(1) 1"C. - (3)#8 & (1)#8 GND.
50E | 4	(1) 1"C. - (4)#8 & (1)#8 GND.
60E | 4	(1) 1-1/4"C. - (4)#6 & (1)#6 GND.
225E | 4	(1) 2-1/2"C. - (4)#4/0 & (1) #1 GND.

NOTE: (##E | #) = EXISTING FEEDER.

1/1 **PARTIAL SINGLE LINE DIAGRAM**

NOT TO SCALE

SHEET NOTES (#)

1. BOARD SHALL HAVE FULL NEUTRAL BUS.
2. BOARD SHALL HAVE LENGTH GROUND BUS.
3. PROVIDE GROUNDING ELECTRODE PER SPECIFICATIONS. PROVIDE SIZE #3/0 COPPER CONDUCTOR FOR THE GROUND CONNECTION FROM THE SERVICE MAIN GROUND BUS TO THE GROUND ROD. GROUND BOND TO COLD WATER PIPE GROUND CONDUCTOR.
4. NEW PG&E TRANSFORMER AND NEW CONCRETE PAD PER PG&E STANDARDS.
5. COORDINATE WITH PG&E FOR THE REMOVAL OF THE EXISTING METER CURRENT COILS. PROVIDE BLANK METER COVER PLATE.
6. WORK TO BE DONE ONCE (N) MAIN SWITCHBOARD 'MSB1', ELECTRICAL DISTRIBUTION BOARD, AND NEW PG&E TRANSFORMER HAS BEEN INSTALLED.
7. COORDINATE WITH PG&E FOR DISCONNECTING AND REMOVING THE EXISTING PG&E TRANSFORMER. REFER TO ELECTRICAL SITE PLAN. COORDINATE WITH CAMPUS/DISTRICT FOR PG&E SHUT OFF DISCONNECTION SO CAMPUS IS AWARE AT LEAST TWO MONTHS IN ADVANCED TO PREPARE FOR THE SWITCHOVER.
8. COORDINATE THE DISCONNECTION OF EXISTING SERVICE WITH THE UTILITY COMPANY. CUT AND INTERCEPT THE EXISTING FEEDERS AND CONDUIT. PROVIDE AND INSTALL NEW FEEDER AND CONDUIT TO CONNECT THE EXISTING MSB TO THE NEW 'MSB1'.
9. PROVIDE AND INSTALL 1kVA, 1 PHASE, 120V-INPUT TO 120V-OUTPUT MYERS #1-EM-1-S-BA2005-BTM-M-IOT-2YWT-5YP-5YW EMERGENCY LIGHTING INVERTER WITH 90 MINUTES OF RUN TIME (27.5" TALL x 24.5" WIDE x 10.5" DEEP 281 POUNDS TOTAL SYSTEM WEIGHT) OR APPROVED EQUAL. PROVIDE AND INSTALL A CAT6A DATA CABLE BACK TO THE IDF. PROVIDE MANUFACTURER FLOOR MOUNTING BRACKETS FOR FLOOR MOUNTING.
10. CONTRACTOR TO REMOVE THE EXISTING MAIN BONDING JUMPER. SO, NEUTRAL BUS AND GROUND BUS ARE NOT BONDED.

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Child Nutrition Kitchen Remodel

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Project

Electrical Systems-Electrical Single Line Diagram
Drawing

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LICENSED ARCHITECT — MICHAEL K. FERNANDES — No. C23724 — Exp. 4-30-25 — STATE OF CALIFORNIA

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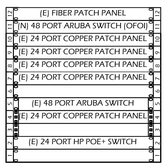
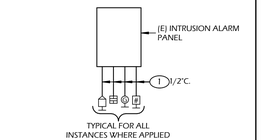


NOTES:
1. NEW NETWORK SWITCHES PROVIDED & INSTALLED BY OWNER.
2. PROVIDE ALL MOUNTING HARDWARE, SQUARE CAGE NUTS, SWITCH MOUNTING BRACKETS AND SHELVES FOR A FULLY FUNCTIONAL SYSTEM.

3 - **(E) IDF ELEVATION**

NOT TO SCALE



GENERAL NOTES:
1. PROVIDE AND INSTALL CONDUIT PROVISIONS AND INTRUSION ALARM PUNCHDOWN BLOCK AND FIRE RETARDANT PLYWOOD BACKBOARD ADJACENT TO THE EXISTING INTRUSION ALARM PANEL.
2. ALL WIRING INTRUSION ALARM DEVICES AND SENSORS, POWER SUPPLY, INTRUSION ALARM SYSTEM CONNECTIONS, AND PROGRAMMING BE DONE BY SCHOOL DISTRICT'S INTRUSION ALARM CONTRACTOR.
3. CONTRACTOR SHALL COORDINATE WITH THE SCHOOL DISTRICT INTRUSION ALARM VENDOR PRIOR TO CONDUIT INSTALLATION.

1 - **SECURITY RISER DIAGRAM**

NOT TO SCALE

4 - **TELEPHONE RISER DIAGRAM**

NOT TO SCALE

2 - **NETWORK RISER DIAGRAM**

NOT TO SCALE

MECHANICAL EQUIPMENT SCHEDULE

DESIG. # / #	DESCRIPTION	FLA/MCA/HP/W	STARTER/FUSES	VOLT	PHASE	MAX OCPD SIZE	CON DUIT SIZE	CONDUCTOR #	CONDUCTOR SIZE	GND.
EF-1	EXHAUST FAN	15 FLA	FUSE/DISC.	208V	3	NOTE 2	3/4"	4	#12	NOTE 3
FF-1A	FLY FAN	1.2 FLA								
FF-1B	FLY FAN	↓								
MAU-1	MAKE-UP AIR UNIT	11.9 MCA					↓		↓	
CU-1A	CONDENSING UNIT	69.3 FLA					1-1/4"		#2	
CU-1B	CONDENSING UNIT	↓	↓	↓	↓	↓	↓	↓	↓	↓

NOTES:
1. *=THERMAL RATED SWITCH FOR FRACTIONAL HORSEPOWER MOTORS.
2. REFER TO THE PANEL SCHEDULEA ND SINGLE LINE DIAGRAM FOR THE CIRCUIT BREAKER AND CONDUIT SIZES, IF NOT INDICATED WITHIN THE SCHEDULE.
3. GROUNDING CONDUCTOR SIZE TO MATCH CONDUCTOR SIZE.

GENERAL NOTES:
1. COORDINATE LOCATIONS AND POWER REQUIREMENT FOR MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR.
2. PROVIDE DISCONNECT PER NAME PLATE RATING OF MECHANICAL UNITS.

SHEET NOTES (#)

1. PROVIDE AND INSTALL CONDUIT PROVISIONS BACK TO THE INTRUSION ALARM PANEL LOCATION. COORDINATE CONDUIT PROVISION LOCATION WITH DISTRICT INTRUSION ALARM CONTRACTOR PRIOR TO CONDUIT ROUGH IN.

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Date: Issue Date	Reviewed By: Approver	

(N) PANEL 'M1'

VOLTAGE: 208/120V, 3Ø, 4W | BUS: 225A | MAIN BREAKER: 225A/3P
BREAKER AIC: 35,000 | MOUNTING: SURFACE | NEMA 1 ENCLOSURE

CIR #	BKR	LOAD (VA) PHASE A	PHASE B	PHASE C	DESCRIPTION	DESCRIPTION	LOAD (VA) PHASE C	PHASE B	PHASE A	BKR	CIR #
1		1801.3							0		2
3	30A/3P		1801.3		EXHAUST FAN EF-1	SPARE		0		15A/3P	4
5				1801.3			0				6
7		144.11							144.11		8
9	15A/3P		144.11		FLY FAN FF-1A	FLY FAN FF-1B		144.1		15A/3P	10
11				144.11			144.11				12
13		1429.1				SPARE			0	20A/1P	14
15	20A/3P		1429.1		MAKE-UP AIR UNIT MAU-1	↓		0		↓	16
17				1429.1		↓	0			↓	18
19		0			SPACE				8322.2		20
21	↓		0		↓	CONDENSING UNIT CU-1A		8322		90A/3P	22
23	↓			0	↓		8322.2				24
25	↓	0			↓				8322.2		26
27	↓		0		↓	CONDENSING UNIT CU-1B		8322		90A/3P	28
29	↓			0	↓		8322.2				30
31	↓	0			↓	SPACE			0		32
33	↓		0		↓	↓		0		↓	34
35	↓			0	↓	↓	0			↓	36
37	↓	0			↓	↓			0	↓	38
39	↓		0		↓	↓		0		↓	40
41	↓			0	↓	↓	0			↓	42

TOTAL Ø LOADS (VA):	PHASE A = 20163	PHASE B = 20163	PHASE C = 20163
TOTAL Ø LOADS (A):	PHASE A = 146	PHASE B = 146	PHASE C = 146
SUB TOTAL LOAD:	60489 VA	146 A	
25% OF LARGEST MOTOR:	6242 VA	15 A	
TOTAL LOAD:	66731 VA	161 A	

(E) PANEL 'A' - SECTION 1
NEW CONFIGURATION

VOLTAGE: 208/120V, 3Ø, 4W | BUS: 225A | MAIN BREAKER: 225A/3P
BREAKER AIC: 22,000 | MOUNTING: SURFACE | NEMA 1 ENCLOSURE

CIR #	BKR	LOAD (VA) PHASE A	PHASE B	PHASE C	DESCRIPTION	DESCRIPTION	LOAD (VA) PHASE C	PHASE B	PHASE A	BKR	CIR #
1	20A/1P	570			(E) EXIT LIGHTING	(E) LTG - FOOD PREP.			803	20A/1P	2
3	↓		715		RM#110 &111	↓		1752		↓	4
5	↓			774	RM#101 -109, 112	(E) LTG - KITCHEN, SALAD	1881			↓	6
7	↓	876			(E) LTG - OFFICES	(E) LTG - RACK STORAGE			1216	↓	8
9	↓		801		(E) SPARE	EXHAUST FAN		800		↓	10
11	↓			800	↓	FACP	800			↓	12
13	↓	800			(E) REC - MISC	(E) PWR POLE - FOOD PREP.			800	↓	14
15	↓		800		↓	↓		800		↓	16
17	↓			800	↓	↓	800			↓	18
19	↓	800			(E) REC - SALAD PREP	↓			800	↓	20
21	↓		800		↓	(E) REC - RACK STRGE		800		↓	22
23	↓			800	(E) SPARE	↓	800			↓	24
25	↓	800			(E) REC - FOOD PREP	↓			800	↓	26
27	↓		800		↓	↓		800		↓	28
29	↓			800	(E) REC - KTN. RFG.	↓	800			↓	30
31	↓	1000			(E) REC - GRBG. DISP.	LIGHTING INVERTER 'EML'			670.6	15A/1P	32
33	↓		1000		(E) REC - MICRO-W	EXTERIOR EMERGENCY LIGHT		25		20A/1P	34
35	↓			1000	(E) REC - COUNTER	SPARE	0			↓	36
37	↓	800			(E) SPARE	↓			0	↓	38
39	↓		800		↓	↓		0		↓	40
41	↓			800	↓	↓	0			↓	42

TOTAL Ø LOADS (VA):	PHASE A = 10736	PHASE B = 10693	PHASE C = 10855
TOTAL Ø LOADS (A):	PHASE A = 89	PHASE B = 89	PHASE C = 90
TOTAL LOAD:	32284 VA	90 A	

NOTE:
1. REFER WITHIN PANEL SCHEDULE FOR NEW LIGHTING INVERTER CIRCUIT BREAKER. CIRCUIT BREAKER PROTECTING THE LIGHTING INVERTER MUST BE A "MOTOR START", DELAYED TRIP TYPE.

(E) PANEL 'A' - SECTION 1
EXISTING CONFIGURATION

VOLTAGE: 120/208V, 3Ø, 4W | BUS: 225A | MAIN BREAKER: 225A/3P
BREAKER AIC: 22,000 | MOUNTING: SURFACE | NEMA 1 ENCLOSURE

CIR #	BKR	LOAD (VA) PHASE A	PHASE B	PHASE C	DESCRIPTION	DESCRIPTION	LOAD (VA) PHASE C	PHASE B	PHASE A	BKR	CIR #
1	20A/1P	500			(E) EXIT LIGHTING	(E) LTG - FOOD PREP.			803	20A/1P	2
3	↓		1387		(E) LTG - DINING	↓		1752		↓	4
5	↓			1460	(E) LTG - ENTRY, SNACKS	(E) LTG - KITCHEN, SALAD	1881			↓	6
7	↓	1626			(E) LTG - OFFICES	(E) LTG - RACK STORAGE			1216	↓	8
9	↓		800		(E) SPARE	EXHAUST FAN		800		↓	10
11	↓			800	↓	FACP	800			↓	12
13	↓	800			(E) REC - MISC	(E) PWR POLE - FOOD PREP.			800	↓	14
15	↓		800		↓	↓		800		↓	16
17	↓			800	↓	↓	800			↓	18
19	↓	800			(E) REC - SALAD PREP	↓			800	↓	20
21	↓		800		↓	(E) REC - RACK STRGE		800		↓	22
23	↓			800	(E) SPARE	↓	800			↓	24
25	↓	800			(E) REC - FOOD PREP	↓			800	↓	26
27	↓		800		↓	↓		800		↓	28
29	↓			800	(E) REC - KTN. RFG.	↓	800			↓	30
31	↓	1000			(E) REC - GRBG. DISP.	(E) VENDING MACHINE			1500	↓	32
33	↓		1000		(E) REC - MICRO-W	SPARE		0		↓	34
35	↓			1000	(E) REC - COUNTER	(E) VENDING MACHINE	1500			↓	36
37	↓	800			(E) SPARE	SPARE			0	↓	38
39	↓		800		↓	(E) VENDING MACHINE		1500		↓	40
41	↓			800	↓	SPARE	0			↓	42

TOTAL Ø LOADS (VA):	PHASE A = 12245	PHASE B = 12839	PHASE C = 13041
TOTAL Ø LOADS (A):	PHASE A = 102	PHASE B = 107	PHASE C = 109
TOTAL LOAD:	38125 VA	106 A	

ELECTRICAL DISTRIBUTION WEIGHT & DIMENSIONS SCHEDULE

NAME	CB	WEIGHT(Lb)	W	D	H	MOUNTING	MANUFACTURER
MSB 'MSB1'	1600A	4502	140"	61"	91"	FREE-STANDING	ABB OR EQUAL
DB 'DB28'	2500A	2560	75"	55"	91"	FREE-STANDING	ABB OR EQUAL
PANEL 'KH'	1000A	735	45"	14.5"	72"	SURFACE MOUNTED	ABB OR EQUAL
PANEL 'R1'	225A	230	20"	5.75"	64".5	SURFACE MOUNTED	ABB OR EQUAL
PANEL 'M1'	225A	288	20"	5.75"	64".5	SURFACE MOUNTED	ABB OR EQUAL

TRANSFORMER WEIGHT & DIMENSIONS SCHEDULE

NAME	kVA	WEIGHT(Lb)	W	D	H	LOCATION	MANUFACTURER
XFMR 'T-DB28'	750 kVA	5405	49"	41.5"	64"	ONSITE	HAMMOND P.S. OR EQUAL

(N) PANEL 'R1'

VOLTAGE: 208/120V, 3Ø, 4W | BUS: 125A | MAIN BREAKER: 125A/3P
BREAKER AIC: 35,000 | MOUNTING: SURFACE | NEMA 1 ENCLOSURE

CIR #	BKR	LOAD (VA) PHASE A	PHASE B	PHASE C	DESCRIPTION	DESCRIPTION	LOAD (VA) PHASE C	PHASE B	PHASE A	BKR	CIR #
1	20A/1P	360			RM# 106 REC.	RM# 104 REF. REC.			800	20A/1P	2
3	↓		540		RM# 106 REC.	RM# 104 MW. REC.		1200		↓	4
5	↓			720	RM# 106 REC.	RM# 104 REC.	540			↓	6
7	↓	540			RM# 102 REC.	RM# 104 REC.			1200	↓	8
9	↓		720		RM# 103 REC.	RM# 102 REC. N. SIDE		180		↓	10
11	↓			600	RM# 102 PRINTER REC.	RM# 102 REC. N. SIDE	360			↓	12
13	↓	720			RM# 102 REC. N. SIDE W	RM# 102 REC. N. SIDE			360	↓	14
15	↓		360		RM# 119 N. SIDE REC.	RM# 102 REC. S. SIDE		180		↓	16
17	↓			540	RM# 119 N. SIDE REC.	RM# 102 REC. S. SIDE	360			↓	18
19	↓	180			RM# 119 N. SIDE REC.	RM# 102 REC. S. SIDE			540	↓	20
21	↓		360		RM# 119 N. SIDE REC. W	RM# 102 REC. S. SIDE W		540		↓	22
23	↓			200	ANSUL PANEL	RM# 102 REC. S. SIDE W	540			↓	24
25	↓	400			GREASE KITCHEN HOOD	RM# 119 S. SIDE REC.			180	↓	26
27	↓		180		ROOF HVAC REC.	RM# 119 S. SIDE REC.		540		↓	28
29	↓			1560	GARBAGE DISPOSAL	RM# 119 S. SIDE REC.	180			↓	30
31	↓	400			GREASE KITCHEN HOOD	RM# 119 N. SIDE REC. W			360	↓	32
33	↓		1320		FREEZER	SPARE		0		↓	34
35	15A/1P			648	REFRIGERATOR	RM# 106 REC.	360			↓	36
37	20A/1P	0			SPARE	SPACE			0		38
39	↓		0		↓	↓		0		↓	40
41	↓			0	↓	↓	0			↓	42
43		0			SPACE	↓			0	↓	44
45	↓		0		↓	↓		0		↓	46
47	↓			0	↓	↓	0			↓	48
49		3770.8							3770.8		50
51	40A/3P		3770.8		CHILLER AND SHOCK FREEZER	CHILLER AND SHOCK FREEZER		3771		40A/3P	52
53				3770.8			3770.8				54

TOTAL Ø LOADS (VA):	PHASE A = 13582	PHASE B = 13662	PHASE C = 14150
TOTAL Ø LOADS (A):	PHASE A = 113	PHASE B = 114	PHASE C = 118
SUB TOTAL LOAD:	41394 VA	115 A	

(N) PANEL 'KH'

VOLTAGE: 208/120V, 3Ø, 4W | BUS: 1000A | MAIN BREAKER: 1000A/3P
BREAKER AIC: 35,000 | MOUNTING: SURFACE | NEMA 1 ENCLOSURE

CIR #	BKR	LOAD (VA) PHASE A	PHASE B	PHASE C	DESCRIPTION	DESCRIPTION	LOAD (VA) PHASE C	PHASE B	PHASE A	BKR	CIR #
1		22633				SPACE			0		2
3	200A/3P		22633		ICOMBI STEAMER & OVEN	↓		0		↓	4
5				22633		↓	0			↓	6
7		22633				↓			0	↓	8
9	200A/3P		22633		ICOMBI STEAMER & OVEN	↓		0		↓	10
11				22633		↓	0			↓	12
13		22633				↓			0	↓	14
15	200A/3P		22633		ICOMBI STEAMER & OVEN	↓		0		↓	16
17				22633		↓	0			↓	18
19		0			SPACE				7666.7		20
21	↓		0		↓	IVARIO TILTING SKILLET		7667		70A/3P	22
23	↓			0	↓		7666.7				24
25	↓	0			↓				7666.7		26
27	↓		0		↓	IVARIO TILTING SKILLET		7667		70A/3P	28
29	↓			0	↓		7666.7				30
31	↓	0			↓	SPACE			0		32
33	↓		0		↓	↓		0		↓	34
35	↓			0	↓	↓	0			↓	36
37	↓	0			↓	↓			0	↓	38
39	↓		0		↓	↓		0		↓	40
41	↓			0	↓	↓	0			↓	42

TOTAL Ø LOADS (VA):	PHASE A = 83233	PHASE B = 83233	PHASE C = 83233
TOTAL Ø LOADS (A):	PHASE A = 693	PHASE B = 693	PHASE C = 693
SUB TOTAL LOAD:	249699 VA	693 A	

NOTE:
1. MAIN CIRCUIT BREAKER SHALL HAVE SHUNT TRIP ACCESSORY WITH 24DC VOLT ACTIVATION FOR INTERFACE TO FIRE ALARM RELAY MODULE.

DSA File No.:

DSA Application No.:

Agency Approval

Borrelli & Associates, Inc.
Consulting Electrical Engineers
2032 N. Gateway Blvd., Fresno, CA, 93727
Phone: 559-233-4138, Fax: 559-233-4147
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BAI # 23165

REGISTERED PROFESSIONAL ENGINEER JOHN BORRELLI No.E16390 EXP.6/30/25 ELECTRICAL CALIFORNIA

SCAN ME

Child Nutrition Kitchen Remodel

Madera Unified School District
769 S. Pine St, Madera, CA 93637
Project

Electrical Systems-Panel Schedules
Drawing

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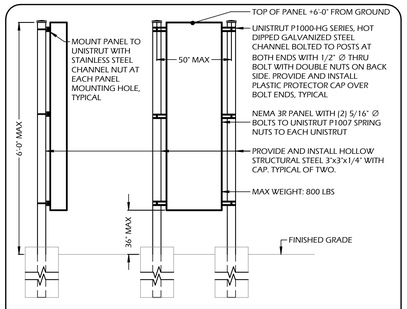
LICENSED ARCHITECT MICHAEL K. FERRANTE No. C23724 Ren. 4-30-25 STATE OF CALIFORNIA

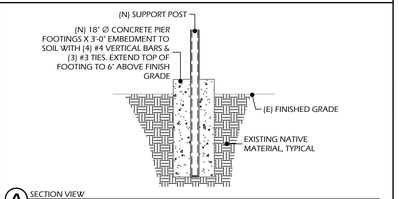
Architect

No.	Revision/Submission	Date

Revision

	Designed By: Designer	Copyright	Darden Architects
Scale: 1/8" = 1'-0"	Drawn By: Author	X/E106	
Project Number: 2310	Checked By: Checker		
Date: Issue Date	Reviewed By: Approver		

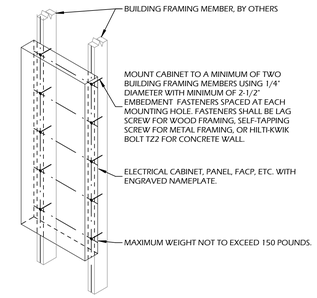




A SECTION VIEW
NO SCALE

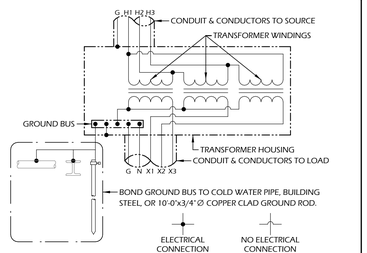
13 TYPICAL POST MOUNTED PANEL MOUNTING DETAIL

NOT TO SCALE



10 TYPICAL TERMINAL CABINET/PANEL ATTACHMENT TO WALL

NOT TO SCALE



NOTES:
1. SIZE CONDUITS AND CONDUCTORS PER THE SINGLE LINE DIAGRAM.

7 TRANSFORMER GROUNDING & CONNECTION DETAIL

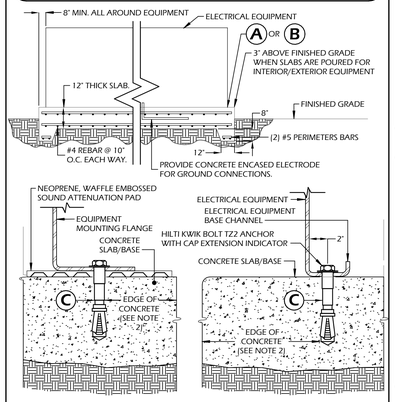
NOT TO SCALE

HILTI KWIK BOLT TZ2 STAINLESS STEEL NOTES

1. EXPANSION ANCHORS SHALL BE STAINLESS STEEL HILTI KWIK BOLT KB-TZ2 AS MANUFACTURED BY HILTI, INC., 5400 SOUTH 122ND EAST AVENUE, TULSA, OKLAHOMA 74146. 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	EFF. EMBED	EDGE DISTANCE	SPACING	CONC. THKS.	TORQUE INSTALLATION
3/8"	2-1/2"	5"	5"	5"	30 # FT
1/2"	3-1/4"	6"	6"	5-1/2"	40 # FT
5/8"	4"	6"	7"	6"	60 # FT
3/4"	4 - 3/4"	6"	8"	8"	125# FT

3. *PLACEMENT GUIDELINES FOR ABOVE VALUES IN ITEM 2 REQUIRE THE FOLLOWING CONDITIONS:*
3.1. TABLE VALUES ARE BASED ON F'C = 2500 PSI MIN.
3.2. HOLES DRILLED WITH A HAMMER DRILL AND CARBIDE BIT COMPLYING W/ ANSI B212.15-1994.
3.3. BIT DIAMETER EQUALS THE SIZE OF THE ANCHOR BEING INSTALLED.
3.4. HOLE DEPTH MUST EXCEED EFF. EMBED PER ICC REPORT.
3.5. *ANY SEISMIC DESIGN CATEGORY PER 2022 C.B.C.*
3.6. A.C.I. "CRACKED" CONCRETE CONDITION IS SUFFICIENT.
3.7. *FOR STAINLESS STEEL BOLTS UNLESS SPECIFIED OTHERWISE.*
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. KWIK BOLT TZ2 EXPANSION ANCHORS SHALL BE INSTALLED IN HOLES DRILLED WITH HILTI CARBIDE TIPPED DRILL BITS. ANCHORS SHALL BE INSTALLED AND TORQUED PER MANUFACTURERS RECOMMENDATIONS.
6. ANCHOR SIZES, QUANTITIES, AND TORQUES SHALL BE PER TABLES.
7. REFER TO ESR-4266 REPORT FOR FURTHER REQUIREMENTS.
8. POST-INSTALLED ANCHORS SHALL BE INSTALLED PER THE TORQUE LISTED WITH SPECIAL INSPECTION.
9. CONTRACTOR TO OBTAIN SPECIAL INSPECTIONS TESTING TO VERIFY BOLTS ARE TORQUED PROPERLY AND A REPORT SHALL BE PROVIDED TO THE ENGINEER OF RECORD AND THE PROJECT INSPECTOR.

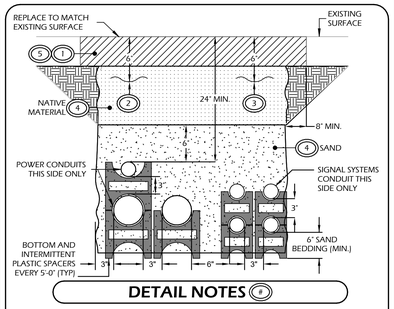


A MOUNTING WITH SOUND PAD DETAIL TRANSFORMER INSTALLATIONS
B MOUNTING WITHOUT SOUND PAD DETAIL DIST.BOARD, MAIN SWITCHBOARDS, ETC.

C ANCHOR DETAIL
D TYPICAL ANCHOR BOLT LAYOUT

5 FREESTANDING ELECTRICAL EQUIPMENT TYPICAL FOR ALL GROUND MOUNTED EQUIPMENT

NOT TO SCALE

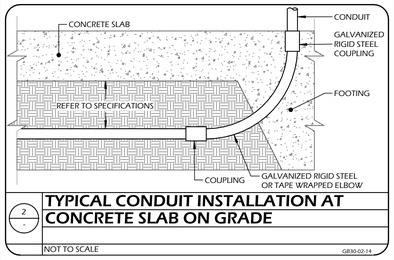


DETAIL NOTES

1. SAWCUT ALL EDGES NEATLY.
2. PROVIDE AND INSTALL DETECTABLE WARNING TAPE MARKED "POWER" ABOVE POWER CONDUITS.
3. PROVIDE AND INSTALL DETECTABLE WARNING TAPE MARKED " COMMUNICATIONS" ABOVE COMMUNICATIONS CONDUIT.
4. THE CONTRACTOR SHALL RETAIN AND PAY FOR THE SERVICES OF A SOILS LAB TEST FOR THE COMPACTION OF THE BACKFILL. A SOILS PROFILE SHALL BE DONE OF THE SAND SO THE COMPACTION TEST CAN BE PERFORMED. THE CONTRACTOR SHALL PROVIDE ALL COMPACTION OF THE TRENCH REQUIRED TO MEET A 95% COMPACTION REQUIREMENT. AN INSPECTED AND SIGNED COMPACTION TESTING REPORT SHALL BE PROVIDED BY THE SOILS TESTING LAB AND COPY OF THE COMPACTION TEST SHALL BE PROVIDED TO THE ENGINEER OF RECORD/PROJECT COORDINATOR PRIOR INSTALLING THE HARDSCAPE. THE CONTRACTOR SHALL BE REQUIRED TO PAY FOR ALL TESTS UNTIL THE COMPACTION RESULTS MEET OR EXCEED THE COMPACTION REQUIREMENTS.
5. PROVIDE 12-INCH BY 1/2-INCH REBAR STEEL DOWELS INSTALLED AT 12-INCHES ON-CENTER ALONG ENTIRE PATH OF TRENCH. DOWELS SHALL BE INSERTED 6-INCHES WITHINI THE EXISTING ADJACENT SURFACE. PREPARE EXISTING SURFACE BY DRILLING HOLES WITHIN AND PROVIDING EPOXY TO HOLD THE DOWEL IN PLACE.

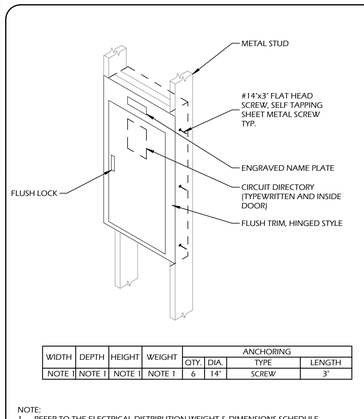
1 TYPICAL TRENCH DETAIL

NOT TO SCALE



2 TYPICAL CONDUIT INSTALLATION AT CONCRETE SLAB ON GRADE

NOT TO SCALE GB30-02-14

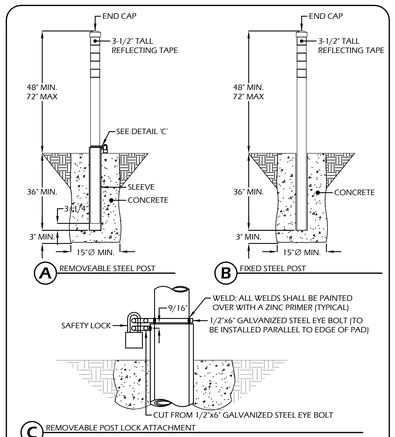


WIDTH	DEPTH	HEIGHT	WEIGHT	ANCHORING			
				QTY.	DIA.	TYPE	LENGTH
NOTE 1	NOTE 1	NOTE 1	NOTE 1	6	14"	SCREW	3"

NOTE:
1. REFER TO THE ELECTRICAL DISTRIBUTION WEIGHT & DIMENSIONS SCHEDULE.

11 TYPICAL FLUSH MOUNTED PANEL DETAIL

NOT TO SCALE



A REMOVEABLE STEEL POST
B FIXED STEEL POST

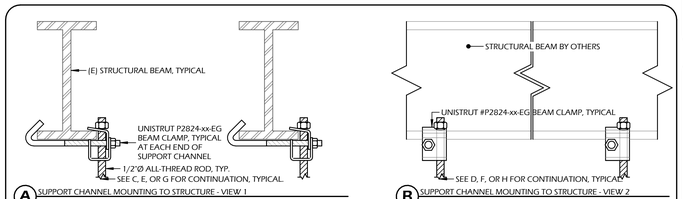
C REMOVEABLE POST LOCK ATTACHMENT

ITEM	MATERIAL
POST	4" GALVANIZED, STEEL PIPE, STANDARD, SCHEDULE NO. 80
SLEEVE	5" GALVANIZED, STEEL PIPE 36" LONG, STANDARD, SCHEDULE NO. 80
END CAP	4" GALVANIZED, MALLEABLE IRON, THREADED (SCREWED)

CONCRETE SHALL BE MIN 3000 LBS. IN 28 DAYS.

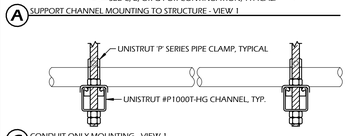
8 BARRIER POST DETAIL

NOT TO SCALE



A SUPPORT CHANNEL MOUNTING TO STRUCTURE - VIEW 1

B SUPPORT CHANNEL MOUNTING TO STRUCTURE - VIEW 2



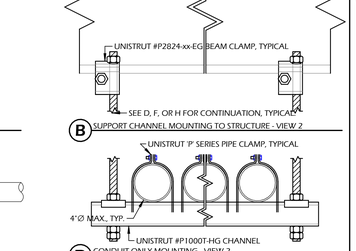
C CONDUIT ONLY MOUNTING - VIEW 1

D CONDUIT ONLY MOUNTING - VIEW 2

DETAIL NOTES:
1. REFER TO PLAN FOR QUANTITY OF CONDUIT.

12 CONDUIT TRAPEZE SUPPORT DETAIL

NOT TO SCALE

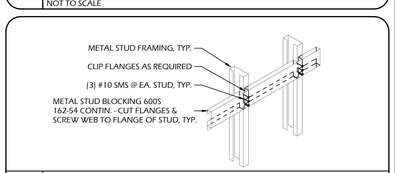


STANDING SEAM ROOF

NOTES:
1. THE DEKTITE CONDUIT FLASHING MUST BE FASTENED TO THE PANEL ONLY AND NOT INTO THE ROOF SUBSTRATE TO ALLOW THE PANEL TO MOVE THERMALLY.
2. ADEQUATE CLEARANCE MUST BE LEFT BETWEEN THE CONDUIT AND THE PANEL TO ALLOW FOR THERMAL MOVEMENT WITHOUT INTERFERENCE.
3. THE CONDUIT MUST BE CENTERED IN THE PANEL TO ALLOW ADEQUATE CLEARANCE FOR INSTALLATION OF THE DEKITE WITHOUT INTERFERENCE WITH THE PANEL RIBS.
4. FOR REGIONS WITH SNOW & ICE, A ROW OF SNOW GUARDS MUST BE INSTALLED NO GREATER THAN 3' IN FRONT OF THE CONDUIT PENETRATION FOR PROTECTION.
5. CONDUITS LARGER THAN 6" IN DIAMETER MAY REQUIRE A CURB DEPENDING ON THE PANEL WIDTH & CONDUIT LOCATION. THIS IS TO BE VERIFIED IN FIELD.

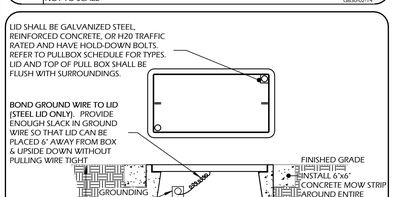
9 TYPICAL CONDUIT ROOF PENETRATIONS

NOT TO SCALE GB160-01-05



6 TYPICAL METAL BACKING

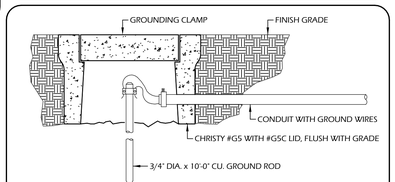
NOT TO SCALE



NOTES:
1. SEAL AROUND CONDUIT, BOX, AND JUNCTION OF EXTENSION(S) WITH GROUT.
2. ALL GROUT SHALL BE PORTLAND CEMENT WITH MAXIMUM OF 4 GALLONS OF WATER PER 94 POUNDS OF CEMENT.

3 PULL BOX DETAIL

NOT TO SCALE GB30-01-01



4 TYPICAL GROUND ROD DETAIL

NOT TO SCALE GB30-01-06

DSA File No.:

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BAI # 23165

REGISTERED PROFESSIONAL ENGINEER — ROBERT BORRELLI — No.E16390 — ELECTRICAL — CALIFORNIA

SCAN ME

Child Nutrition Kitchen Remodel

Madera Unified School District
769 S. Pine St, Madera, CA 93637
Project

Electrical Systems-Typical Electrical Details
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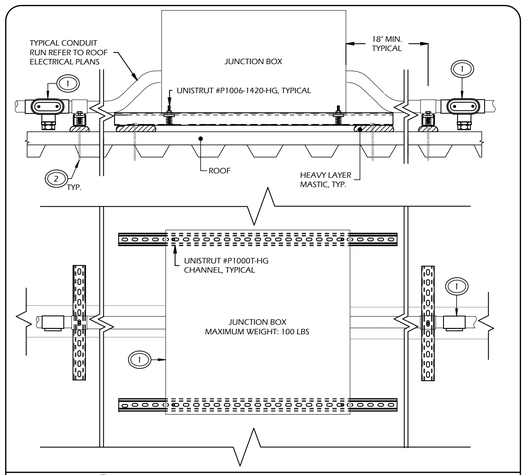
LICENSED ARCHITECT — RANDALL K. FERNO — No. C23724 — Ren. 4-30-25 — STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: Designer	Copyright Darden Architects
Scale:	Drawn By: Author	
Project Number: 2310	Checked By: Checker	X/E107
Date: Issue Date	Reviewed By: Approver	



DETAIL NOTES: (#)

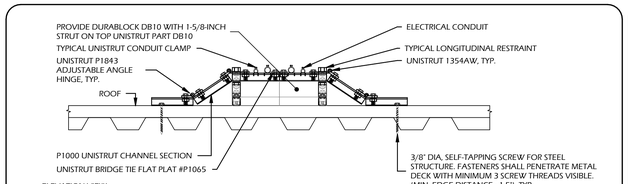
1. PROVIDE AND INSTALL CONDENSATE DRAIN RELIEF WITH T-CONDULET FITTING. PROVIDE AND INSTALL AT ALL CONDUIT LOCATIONS PRIOR TO CONDUIT ENTERING INTO THE BUILDING, ALL JUNCTION BOX LOCATIONS, AND ALL ROOF MOUNTED LARGE JUNCTION BOXES. CONDENSATE DRAIN TO BE POINTING DOWN.
2. PROVIDE AND INSTALL 3/8" DIA. SELF-TAPPING SCREW FOR STEEL STRUCTURE. FASTENERS SHALL PENETRATE METAL DECK WITH MINIMUM 3 SCREW THREADS VISIBLE.

DETAIL GENERAL NOTES:

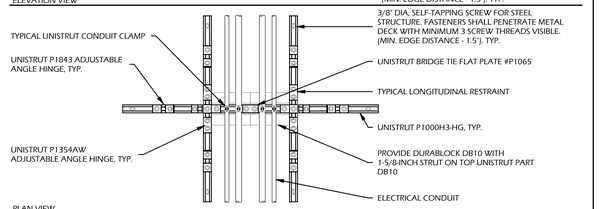
1. CONDUIT RUNS AND SUPPORTS SHALL NOT IMPEDE THE FLOW OF WATER. CONTRACTOR SHALL NOTIFY THE DESIGN TEAM PRIOR TO INSTALLING THE CONDUIT IF ANY PORTION OF THE CONDUIT RUN LIES IN A VALLEY.
2. ALL MASTIC USED SHALL BE APPROVED FOR THE TYPE OF ROOF.

9 - **TYPICAL ROOF JUNCTION BOX SUPPORT DETAIL**

NOT TO SCALE



ELEVATION VIEW



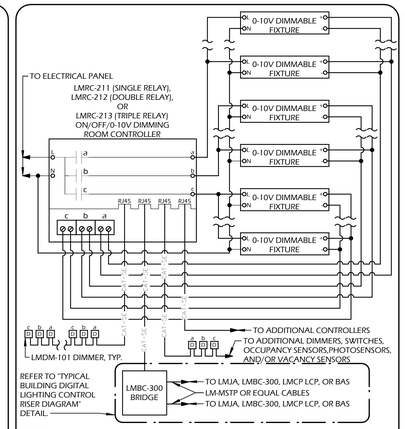
PLAN VIEW

NOTES:

1. ALL HARDWARE: NUTS AND WASHERS SHALL BE HOT DIP GALVANIZED.
2. CONDUIT SHALL BE SUPPORTED EVERY 8-FEET. A CONDUIT SUPPORT SHALL BE PROVIDED WITHIN 18-INCHES FOR EVERY CHANGE IN HORIZONTAL DIRECTION ON BOTH SIDES.
3. CONDUIT SHALL BE SUPPORTED PER THIS DETAIL JUST PRIOR TO THE POINT OF CONNECTION TO THE UTILIZATION EQUIPMENT. CONDUIT SUPPORT SHALL BE SUPPORTED WITHIN 36-INCHES OF THE UTILIZATION EQUIPMENT.
4. ANY CHANGE IN VERTICAL DIRECTION OF THE CONDUIT REQUIRES A SEISMIC RESTRAINT JUST PRIOR TO THE ELEVATION CHANGE. PROVIDE ADDITIONAL CONDUIT SLEEPER FASTENED IN PLACE PER THIS DETAIL FOR THE RESTRAINT.
5. CONTRACTOR SHALL UTILIZE A LICENSED ROOFER TO SEAL ALL ROOF PENETRATIONS.
6. PROVIDE AND INSTALL CONDUIT SLEEPERS ON EACH SIDE OF EVERY 90-DEGREE CONDUIT CHANGE IN DIRECTION EXCLUDING 45-DEGREE OR LESS OFFSET.
7. UTILIZE ALL CHANNEL SPRING NUTS AND BOLTS FOR FASTENING THE STRUT PARTS.
8. DURABLOCK TO BE FASTENED IN PLACE FOR EVERY OTHER SLEEPER SUPPORT.
9. LONGITUDINAL RESTRAINT TO BE PROVIDED FOR EVERY OTHER PIPE SUPPORT BLOCKING. LONGITUDINAL RESTRAINT IS STILL REQUIRED FOR EVERY CHANGE IN HORIZONTAL DIRECTION ON BOTH SIDES.

8 - **CONDUIT ROOF SUPPORT DETAIL**

NOT TO SCALE

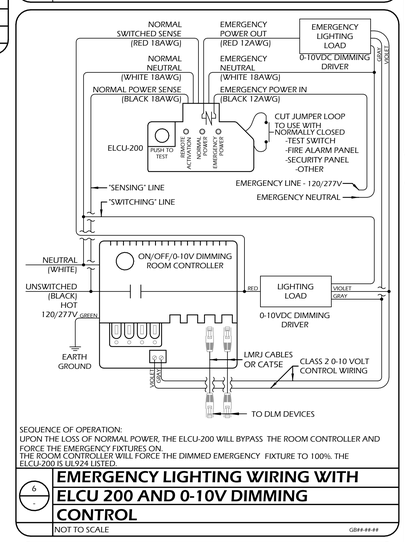


NOTES:

1. ALL CATALOG NUMBERS ARE FOR WATTSTOPPER PRODUCTS, U.O.N.
2. ALL CONDUCTORS ARE #12 AWG, U.O.N.
3. CABLES BETWEEN DIMMERS AND BETWEEN DIMMER AND CONTROLLER ARE CAT-5E WITH RJ-45 CONNECTORS.
4. PROVIDE ALL PROGRAMMING FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.

5 - **TYPICAL 0-10VDC LOCAL ROOM DIGITAL DIMMING CONTROL**

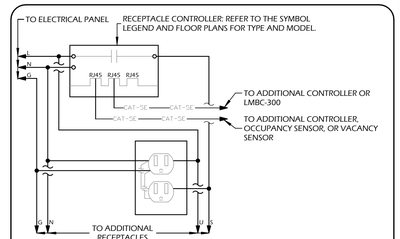
NOT TO SCALE



SEQUENCE OF OPERATION:
UPON THE LOSS OF NORMAL POWER, THE ELCU-200 WILL BYPASS THE ROOM CONTROLLER AND FORCE THE EMERGENCY FIXTURES ON.
THE ROOM CONTROLLER WILL FORCE THE DIMMED EMERGENCY FIXTURE TO 100%. THE ELCU-200 IS UL924 LISTED.

6 - **EMERGENCY LIGHTING WIRING WITH ELCU 200 AND 0-10V DIMMING CONTROL**

NOT TO SCALE GBP#-##-##

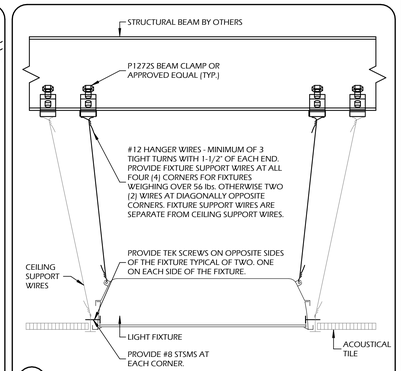


NOTES:

1. ALL CATALOG NUMBERS ARE FOR WATTSTOPPER PRODUCTS, U.O.N.
2. ALL CONDUCTORS ARE #12 AWG, U.O.N.
3. CABLES BETWEEN CONTROLLERS, BRIDGE, OCCUPANCY SENSORS, AND VACANCY SENSORS ARE CAT-5E WITH RJ-45 CONNECTORS.
4. PROGRAM RECEPTACLE CONTROLLER TO TURN OFF SWITCHED RECEPTACLES ONLY WHEN SENSORS DEDECT THE ROOM IS EMPTY. RECEPTACLES SHALL NOT BE SWITCHED BY LIGHT SWITCHES OR DIMMERS. RECEPTACLES SHALL BE SWITCHED OFF 1 MINUTE AFTER LIGHTS.
5. ROOMS REQUIRING SWITCH RECEPTACLES ARE OFFICES, LOBBIES, CONFERENCE ROOMS, KITCHENS, AND COPY ROOMS. RECEPTACLES SUPPLYING EQUIPMENT TO REMAIN ON WHEN ROOM IS VACANT, SUCH AS REFRIGERATORS, NETWORK PRINTERS, NETWORK EQUIPMENT, ETC., ARE EXEMPT.

7 - **TYPICAL SWITCHED RECEPTACLE CONTROL**

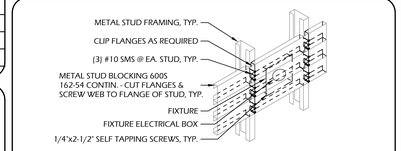
NOT TO SCALE



A LIGHT FIXTURE IN T-BAR CEILING

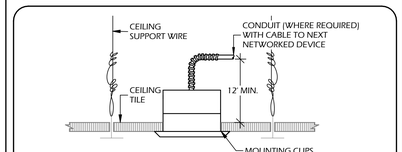
1 - **LIGHT FIXTURE IN T-BAR CEILING**

NOT TO SCALE

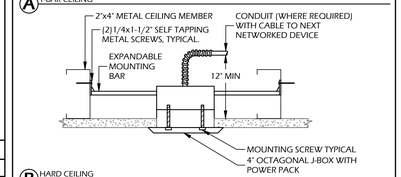


2 - **METAL STUD WALL MOUNTED LIGHT FIXTURE**

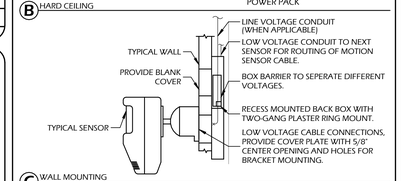
NOT TO SCALE GB4-1-02



A T-BAR CEILING



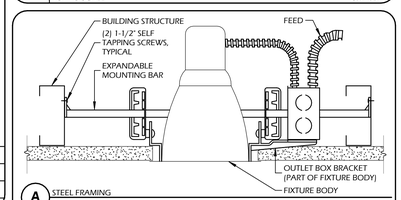
B HARD CEILING



C WALL MOUNTING

3 - **INTERIOR LIGHTING OCCUPANCY SENSOR MOUNTING**

NOT TO SCALE GB9-1-02A



A STEEL FRAMING

4 - **DOWNLIGHT IN HARD CEILING**

NOT TO SCALE

DSA File No.:

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SCAN ME

Child Nutrition Kitchen Remodel

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Electrical Systems-Typical Electrical Details

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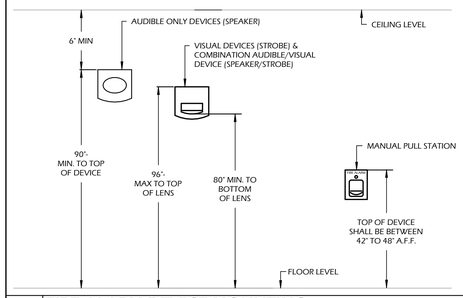
Architect

No.	Revision/Submission	Date

Revision

	Designed By: Designer	Copyright Darden Architects
Scale: 1/8" = 1'-0"	Drawn By: Author	
Project Number: 2310	Checked By: Checker	X/E108
Date: Issue Date	Reviewed By: Approver	

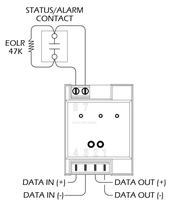


5 — **FIRE ALARM DEVICE MOUNTING HEIGHTS DETAIL**

NOT TO SCALE

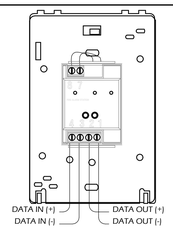
FIRE ALARM OPERATION MATRIX

INPUT	OUTPUT					
	ACTIVATE VISUAL NOTIFICATION DEVICES	SHUT DOWN HVAC UNITS	ANNUNCIATE ALARM AT FACP	ANNUNCIATE SUPERVISORY AT FACP	ANNUNCIATE TROUBLE AT FACP	TRANSMIT SIGNAL TO CENTRAL STATION
DUCT SMOKE DETECTORS		•			•	•
MANUAL PULL STATION	•		•	•		•
ANNUNCIATOR TROUBLE					•	•
POWER FAILURE				•	•	•
GENERAL SYSTEM TROUBLE					•	•



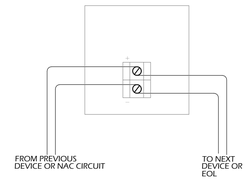
A — INPUT MODULE

SCALE: NONE



B — MANUAL PULL STATION

SCALE: NONE

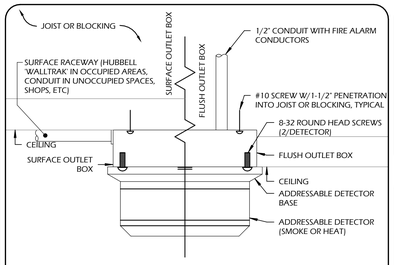


C — WIRING: NOTIFICATION DEVICE

SCALE: NONE

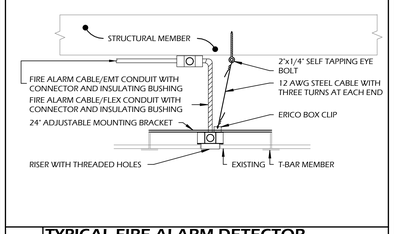
4 — **FIRE ALARM DEVICE WIRING TYPICAL CONNECTION DETAILS**

NOT TO SCALE



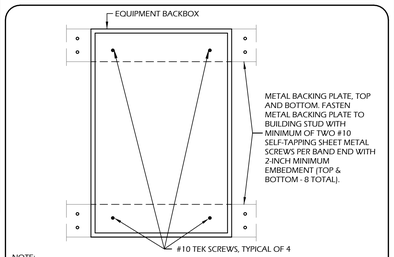
1 — **TYPICAL DETECTOR MOUNTING**

NOT TO SCALE GB70-01-01



2 — **TYPICAL FIRE ALARM DETECTOR MOUNTING AT T-BAR CEILING**

NOT TO SCALE



NOTE:
FACP MAXIMUM WEIGHT NOT TO EXCEED 50 POUNDS.

3 — **ANCHORAGE FOR EQUIPMENT WEIGHING OVER 20 LBS AND LESS THAN 50 LBS**

NOT TO SCALE

FIRE ALARM SYMBOL LIST

SYMBOL	DEVICE TYPE
	(E) FIRE ALARM CONTROL PANEL (FACP) (FC) #7100
H	MANUAL PULL STATION
HF	WALL MOUNTED STROBE
HF	WALL MOUNTED HORN STROBE

NOTES:
1. PROVIDE DUCT DETECTORS AT HVAC UNITS FOR UNIT SHUT DOWN. DETECTOR TO BE TIED INTO THE EXISTING FIRE ALARM SYSTEM.

FIRE ALARM SYSTEM NOTES

1. THE FIRE ALARM SYSTEM IS A DEFERRED APPROVED SYSTEM.
2. ALL WORK AND MATERIALS SHALL COMPLY WITH THE LATEST REGULATIONS OF THE STATE FIRE MARSHALL, CALIFORNIA CODE OF REGULATIONS, SERVING UTILITY COMPANIES AND OTHER APPLICABLE STATE ORDINANCES. NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED AS TO PERMIT WORK NOT CONFORMING TO THESE CODES. WHERE WORK OF A HIGHER DEGREE IS INDICATED IN THE PLANS OR SPECIFICATIONS THIS REQUIREMENT SHALL GOVERN.
3. UPON COMPLETION OF THE INSTALLATION OF THE FIRE PROTECTIVE SIGNALING EQUIPMENT, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING FIRE AGENCY PER CHAPTER 7, NFPA 72, AND A CERTIFICATE OF COMPLETION SHALL BE PROVIDED TO THE OWNER PER CHAPTER 1, NFPA 72 AND THE CALIFORNIA FIRE CODE, SECTION 1007.3.4.
4. ALL FIRE PROTECTION SIGNALING COMPONENTS SHALL BE ONLY THOSE APPROVED AND LISTED IN THE STATE FIRE MARSHAL'S LISTING SERVICE. AN ITEMIZED MATERIALS LIST SHOWING MAKE, MODEL NUMBER AND ITS CORRESPONDING STATE FIRE MARSHAL'S LISTING NUMBER SHALL BE FURNISHED TO THE PROJECT INSPECTOR. UPON COMPLETION OF THE INSTALLATION OF THE FIRE PROTECTIVE SIGNALING EQUIPMENT, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE LOCAL FIRE AUTHORITY WITH I.O.R. INSTALLATION REQUIREMENTS SHALL BE PER NFPA 72, CALIFORNIA BUILDING CODE, AND CALIFORNIA FIRE CODE.
5. THE FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. THE SUPERVISING STATION 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.
6. TEST, INSPECTION, AND MAINTENANCE SHALL COMPLY WITH NFPA 72, CHAPTER 14.
7. ALL EXTERIOR CONNECTIONS, DEVICES, SYSTEMS, ETC. SHALL BE WEATHERPROOF.
8. ALL FIRE ALARM PATHWAYS SHALL COMPLY WITH CEC AND NFPA 71 12.4 AND 24.3.5 LEVEL 0.
9. ALL PENETRATIONS FOR FIRE OR SMOKE RATED ASSEMBLIES SHALL BE SEALED WITH UL APPROVED SYSTEM COMPLYING WITH CEC 300.21 TO PREVENT SPREAD OF FIRE AND SMOKE.
10. AN ORIGINAL, APPROVED SET OF PLANS SHALL BE ON SITE DURING ANY FIRE DEPARTMENT INSPECTIONS.
11. PROVIDE FIRE ALARM RECORD OF COMPLETION TO AUTHORITY HAVING JURISDICTION AT FINAL ACCEPTANCE TESTING.

DEFERRED FIRE ALARM PLAN SUBMITTAL NOTE

THE FIRE ALARM PLANS ARE FOR BIDDING PURPOSES ONLY. THE FIRE ALARM CONTRACTOR SHALL SUBMIT THEIR SET OF FIRE ALARM PLANS TO THE LOCAL FIRE MARSHAL WITH FULL VOLTAGE DROP AND BATTERY CALCULATIONS CSFM LISTING AND DATA SHEETS AS REQUIRED TO OBTAIN APPROVAL WHERE THE PROJECT IS BEING CONTRUCTED. FIRE ALARM CONTRACTOR SHALL MAKE ANY ADJUSTMENTS AS REQUIRED BY THE FIRE MARSHALL. A SEPARATE PERMIT FOR THE FIRE ALARM SYSTEM SHALL BE ISSUED. THE FIRE ALARM SYSTEM PERMIT SHALL NOT RIDE ON THE BUILDING PERMIT.

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BAI # 23165

REGISTERED PROFESSIONAL ENGINEER — JOHN BORRELLI — No. E16390 — EXP 8/31/24 — ELECTRICAL — STATE OF CALIFORNIA

SCAN ME

Child Nutrition Kitchen Remodel

Madera Unified School District
769 S. Pine St, Madera, CA 93637

Project

Electrical Systems-Typical Fire Alarm Symbol Legend, Notes, and Details

Drawing

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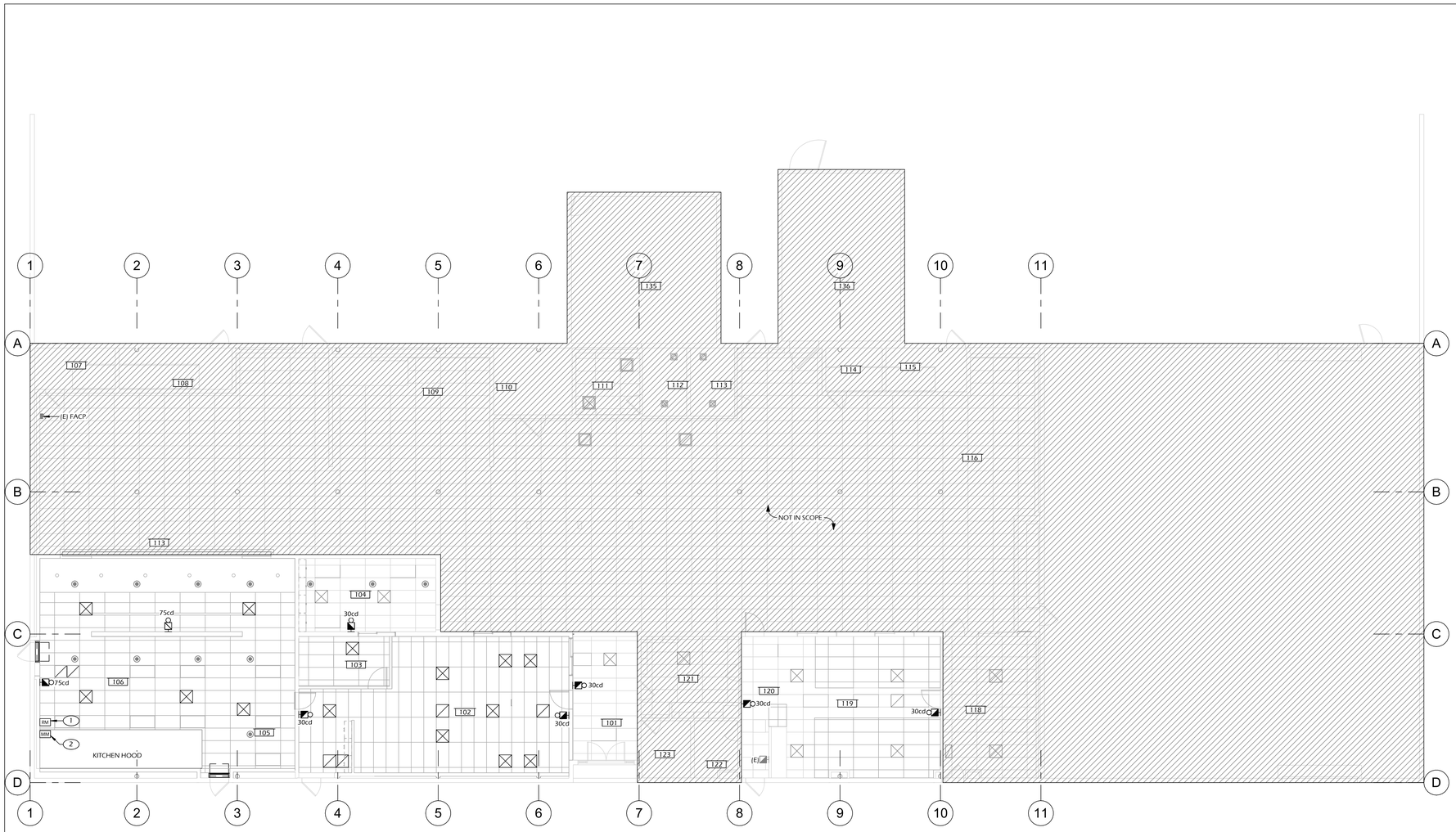
LICENSED ARCHITECT — MICHAEL K. FENWICK — No. C23724 — Exp. 4-30-25 — STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: Designer	Copyright Darden Architects
Scale:	Drawn By: Author	
Project Number: 2310	Checked By: Checker	X/E109
Date: Issue Date	Reviewed By: Approver	



1 FIRE ALARM FLOOR PLAN - FIRST FLOOR

1/8" = 1'-0"

ROOM SCHEDULE

NEW BUILDING ROOMS

###	ROOM NAME	###	ROOM NAME
101	ENTRY	113	MENS R.R.
102	OPEN OFFICE	114	STORAGE
103	OFFICE	115	STAIRWELL
104	BREAK ROOM	116	SALAD PREP.
105	DRY STORAGE	117	WAREHOUSE
106	TEST KITCHEN	118	OFFICE
107	STORAGE	119	OPEN OFFICE
108	STAIRWELL	120	RECEPTION
109	KITCHEN PREP.	121	STAFF LOUNGE
110	EQUIPMENT	122	MENS R.R.
111	WOMENS LOCKERS	123	WOMENS R.R.
112	WOMENS R.R.		

SHEET NOTES (#)

1. PROVIDE AND INSTALL (2) #12 CONDUCTORS TO THE SHUNT TRIP MAIN CIRCUIT BREAKER OF PANEL 'KH' SO, THAT THE ACTUATION OF THE FIRE ALARM RELAY MODULE SHUTS DOWN THE ELECTRICAL POWER SUPPLY TO ALL COOKING EQUIPMENT UNDER THE KITCHEN HOOD.

2. PROVIDE AND INSTALL (4) #12 CONDUCTORS TO THE KITCHEN HOOD FIRE SUPPRESSION SYSTEM PANEL AND MAKE ALL CONNECTIONS FOR THE SYSTEM TO BE MONITORED BY THE FIRE ALARM SYSTEM.

DSA File No.:

DSA Application No.:

Agency Approval

Borrelli & Associates, Inc.
Consulting Electrical Engineers
2032 N. Gateway Blvd., Fresno, CA, 93727
Phone: 559-233-4138, Fax: 559-233-4147
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BAI # 23165

REGISTERED PROFESSIONAL ENGINEER — No.E16390 EXP.6/30/25 — ELECTRICAL — STATE OF CALIFORNIA

SCAN ME

Child Nutrition Kitchen Remodel

Madera Unified School District
769 S. Pine St, Madera, CA 93637
Project

Fire Alarm Systems-Fire Alarm Floor Plan - First Floor
Drawing

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

LICENSED ARCHITECT — RENDEE K. PERRIOT — No. C23724 — Exp. 4-30-25 — STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: Designer	Copyright Darden Architects
Scale: 1/8" = 1'-0"	Drawn By: Author	
Project Number: 2310	Checked By: Checker	X/E110
Date: Issue Date	Reviewed By: Approver	

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: Madera Nutritional Center Remodel	**Report Page:** (Page 4 of 6)
	Date Prepared: 2024-05-07T14:13:20-04:00

H. VOLTAGE DROP

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
(N) MAIN SWITCHBOARD 'MSB1'	☒	Voltage drop less than 5%	☐	Permitted by CA Elec Code (Exception to 130.5(c))*	Contractor Responsible		☐	☐

** 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)/ 160.6(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	07	
Room name or Description	Location/ Type of Controlled Receptacles[1]	Shut-Off Controls	Demand Responsive Controls	Permanent Durable Marking Will be Used	Location of Requirements in Construction Documents	Field Inspector	
						Pass	Fail
OFFICES	Split-wired receptacle	Occupancy Sensor	NA: Building does not require demand responsive lighting controls per 110.12(c)	☒	SHEET X/E117	☐	☐
ENTRY	Split-wired receptacle	Occupancy Sensor	NA: Building does not require demand responsive lighting controls per 110.12(c)	☒	SHEET X/E117	☐	☐

** NOTES: If "Other*" is selected under Shut-Off Controls above, please indicate how compliance has been achieved in the space provided below.*

[1] FOOTNOTES: Receptacles dedicated to refrigerators and water dispensers in kitchens, located a minimum of 6ft above the floor specifically for clocks, network copiers, fax machines, A/V and data equipment other than personal computers in copy rooms, circuits rated more than 20 Amps, or connected to a UPS that are intended to be in continuous use and are marked to differentiate them from other receptacles or circuits are excepted from the requirements. .

STATE OF CALIFORNIA
Electrical Power Distribution
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 and hotel/motel occupancies and 160.6 and 160.9 for electrical systems in newly constructed multifamily occupancies. Additions and alterations to electrical service systems in nonresidential and hotel/motel occupancies will also use this document to demonstrate compliance per 141.0(a) or 141.0(b)2P for alterations. For multifamily addition or alterations compliance will be documented per 180.1(a) or 180.2 (b)4Bvii	
Project Name: Madera Nutritional Center Remodel	**Report Page:** (Page 1 of 6)
Project Address: 769 S. PINE ST , CA 93637	**Date Prepared:** 2024-05-07T14:13:20-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Madera	02	Climate Zone
			03	Occupancy Types Within Project:

13
OfficeWarehouse

B. PROJECT SCOPE

This table includes electrical systems that are within the scope of the permit application.

01	02	03	04	05	06	07
Electrical Service Designation/ Description	Scope of Work[1]	Rating[2] (kVA)	Utility Provided Metering System Exception to 130.5(a)/ 160.6(a)[3]	System subject to CA Elec Code Article 517 Exception to 130.5(a)and (b)	Demand Response Controls	Provides power to dwelling units/common living areas only in multifamily occupancy
(N) MAIN SWITCHBOARD 'MSB1'	New electrical service equipment and meter	1064	☒	☐	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/ 160.3, 130.1/ 160.5, and 130.3/ 160.5, and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents will indicate when demand response controls are required.	☐

[1] FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c)/160.6(c), no other requirements from 130.5/160.6 are required.
[2] If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.
[3] Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: Madera Nutritional Center Remodel	**Report Page:** (Page 5 of 6)
	Date Prepared: 2024-05-07T14:13:20-04:00

K. 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

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

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: Madera Nutritional Center Remodel	**Report Page:** (Page 2 of 6)
	Date Prepared: 2024-05-07T14:13:20-04:00

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	06
Service Electrical Metering 130.5(a)/ 160.6(a) (See Table F)	AND	Separation for Monitoring 130.5(b)/ 160.6(b) (See Table G)	AND	Voltage Drop 130.5(c)/ 160.6(c) (See Table H)	AND	Controlled Receptacles 130.5(d)/ 160.6(d) (See Table I)	Electric Ready 160.9 (See Table J)	**Compliance Results**
	AND	Yes	AND	Yes	AND	Yes		COMPLIES with Exceptional Conditions

D. EXCEPTIONAL CONDITIONS

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

Table B indicates the project is exempt from 130.5(a) Service Electrical Metering requirements because the utility company has provided the project a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

E. ADDITIONAL REMARKS

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

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: Madera Nutritional Center Remodel	**Report Page:** (Page 6 of 6)
Project Address: 769 S. PINE ST , CA 93637	**Date Prepared:** 2024-05-07T14:13:20-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: John Borrelli, PE	Documentation Author Signature:
Company: Borrelli and Associates, Inc.	Signature Date:
Address: 2032 North Gateway Boulevard	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Fresno,CA 93727	Phone: (559) 233-4138

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: John Borrelli, PE	Responsible Designer Signature:
Company: Borrelli and Associates, Inc.	Date Signed:
Address: 2032 North Gateway Boulevard	License: E16390
City/State/Zip: Fresno,CA 93727	Phone: (559) 233-4138

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: Madera Nutritional Center Remodel	**Report Page:** (Page 3 of 6)
	Date Prepared: 2024-05-07T14:13:20-04:00

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)/ 160.6(b). Any load types that are not included in the service do not need to be shown. For multifamily occupancies, submetered systems that provide power to dwelling units do not need to meet these separation requirements and therefore load types on those submetered systems also 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
(N) MAIN SWITCHBOARD 'MSB1'					
Other non-HVAC loads and appliances greater than or equal to 25kVA	All loads in aggregate	Method 1: Switchboards, motor control centers, or panelboard loads disaggregated for each load type	SHEET X/E104	☐	☐
Plug Loads and appliances less than 25kVA	All plug loads separated by floor, type or area Groups of plug loads exceeding 25 kVA connected load in an area less than 5000 sf	Method 1: Switchboards, motor control centers, or panelboard loads disaggregated for each load type	SHEET 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)/ 160.6(c). For alterations, only the altered circuits must demonstrate compliance per 141.0(b)2Pii/ 180.2(b)4Bviic.

01	02	03	04	05

DSA File No.:

DSA Application No.:

Agency Approval

Borrelli & Associates, Inc.
Consulting Electrical Engineers
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BAI # 23165

REGISTERED PROFESSIONAL ENGINEER — JOHN BORRELLI — No.E16390 — EXP 6/30/25 — ELECTRICAL — CALIFORNIA

SCAN ME

Child Nutrition Kitchen Remodel

Madera Unified School District
769 S. Pine St, Madera, CA 93637
Project

Title 24 Compliance Forms-Power
Drawing

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

LICENSED ARCHITECT — MICHAEL K. FENNOY — No. C23724 — Exp. 4-30-25 — STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: Designer	Copyright Darden Architects
Scale:	Drawn By: Author	X/E111
Project Number: 2310	Checked By: Checker	
Date: Issue Date	Reviewed By: Approver	

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.			
Project Name:	Madera Nutritional Center Remodel	Report Page:	(Page 1 of 8)
Project Address:	769 S. PINE ST , CA 93637	Date Prepared:	2024-07-01T19:18:50-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Madera	04	Total Conditioned Floor Area (ft^2)	3,320.66
02	Climate Zone	13	05	Total Unconditioned Floor Area (ft^2)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	2

● Office ● Restaurant

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft^2)	Calculation Method	Area (ft^2)
☐ New Lighting System	N/A	0	N/A	0
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
☒ Altered Lighting System	Area Category Method	3320.66	N/A	0
Total Area of Work (ft^2)	3320.66			

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Madera Nutritional Center Remodel	Report Page:	(Page 2 of 8)
		Date Prepared:	2024-05-30T18:44:48-04:00

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)						≥	Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)				Compliance Results
	01	02	03	04		05		06	07		08	09
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	=	**Total Allowed** (Watts)	≥	Total Designed (Watts)	Adjustments: PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	=	**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 140.6 / 170.2(e)**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)				(See Table F)	(See Table P)			
Conditioned		2,480.74			=	2,480.74	≥	1,977		=	1977	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.

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Madera Nutritional Center Remodel	Report Page:	(Page 3 of 8)
		Date Prepared:	2024-07-01T19:18:50-04:00

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector: Pass	Fail
A1	2-FT. x 4-FT., 3,800 LUMENS	No	NA	27	Mfr. Spec	28	No	756	☐	☐
A2	2-FT. x 4-FT., 4,300 LUMENS	No	NA	32	Mfr. Spec	12	No	384	☐	☐
B1	2-FT. x 2-FT., 3,000 LUMENS	No	NA	25	Mfr. Spec	2	No	50	☐	☐
A3	2-FT. x 4-FT., 4,800 LUMENS	No	NA	36	Mfr. Spec	2	No	72	☐	☐
K1	2-FT. x 4-FT., 6,709 LUMENS	No	NA	46	Mfr. Spec	9	No	414	☐	☐
C1	6" DIAMETER, 2,000 LUMEN	No	NA	19.5	Mfr. Spec	6	No	117	☐	☐
D1	4-IN. x 4-FT., 3,260 LUMEN(NOMINAL) LED FIXTURE	No	NA	26.8	Mfr. Spec	7	No	187.6	☐	☐
Total Designed Watts: CONDITIONED SPACES								1,980.6		

[1]*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2]*Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Madera Nutritional Center Remodel	Report Page:	(Page 4 of 8)
		Date Prepared:	2024-07-01T19:18:50-04:00

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	Field Inspector: Pass	Fail
NA < 4,000W subject to multilevel	See Area/Space Level Controls	☐	☐

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field Inspector: Pass	Fail
101 ENTRY	Main Entry Lobby	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
102 OPEN OFFICE	Office (>250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
103 OFFICE	Office (<=250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
104 BREAKROOM	Lounge	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
105 DRY STORAGE	Commercial Industrial Storage Area	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
106 TEST KITCHEN	Kitchen/ Food Preparation	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
119 OPEN OFFICE	Office (>250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: General Ltg < 120W	NA: General Ltg < 120W	No	☐	☐
120 RECEPTION	Main Entry Lobby	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Madera Nutritional Center Remodel	Report Page:	(Page 5 of 8)
		Date Prepared:	2024-07-01T19:18:50-04:00

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

	13
	Plan Sheet Showing Daylit Zones:

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft^2)	Area (ft^2)	Allowed Wattage (Watts)	Additional Allowance / Adjustment: Area Category	PAF
101 ENTRY	Main Entry Lobby	0.7	210.7	147.49	No	No
102 OPEN OFFICE	Office (>250 square feet)	0.6	812.33	487.4	No	No
103 OFFICE	Office (<=250 square feet)	0.65	114.75	74.59	No	No
104 BREAKROOM	Lounge	0.55	255	140.25	No	No
105 DRY STORAGE	Commercial Industrial Storage Area	0.4	154.4	61.76	No	No
106 TEST KITCHEN	Kitchen/ Food Preparation	0.95	1,197	1,137.15	No	No
119 OPEN OFFICE	Office (>250 square feet)	0.6	603.5	362.1	No	No
120 RECEPTION	Main Entry Lobby	0.7	100	70	No	No
		TOTALS:	3,447.68	2,480.74	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.

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Madera Nutritional Center Remodel	Report Page:	(Page 6 of 8)
		Date Prepared:	2024-07-01T19:18:50-04:00

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Madera Nutritional Center Remodel	Report Page:	(Page 7 of 8)
		Date Prepared:	2024-07-01T19:18:50-04:00

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

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

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selections 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

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	101 ENTRY; 102 OPEN OFFICE; 103 OFFICE; 104 BREAKROOM; 105 DRY STORAGE; 106 TEST KITCHEN; 119 OPEN OFFICE; 120 RECEPTION

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Madera Nutritional Center Remodel	Report Page:	(Page 8 of 8)
Project Address:	769 S. PINE ST , CA 93637	Date Prepared:	2024-07-01T19:18:50-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: John Borrelli, PE	Documentation Author Signature:
Company: Borrelli and Associates, Inc.	Signature Date:
Address: 2032 North Gateway Boulevard	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Fresno,CA 93727	Phone: (559) 233-4138

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: John Borrelli, PE	Responsible Designer Signature:
Company: Borrelli and Associates, Inc.	Date Signed:
Address: 2032 North Gateway Boulevard	License: E16390
City/State/Zip: Fresno,CA 93727	Phone: (559) 233-4138

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REGISTERED PROFESSIONAL ENGINEER JOHN BORRELLI No.E16390 EXP.6/30/25 ELECTRICAL CALIFORNIA

SCAN ME

Child Nutrition Kitchen Remodel

Madera Unified School District

769 S. Pine St, Madera, CA 93637

Project

Title 24 Compliance Forms-Indoor Lighting

Drawing

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LICENSED ARCHITECT MICHAEL K. FENNACY No. C23724 Ren. 4-30-23 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

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Project Number: 2310	Checked By: Checker	
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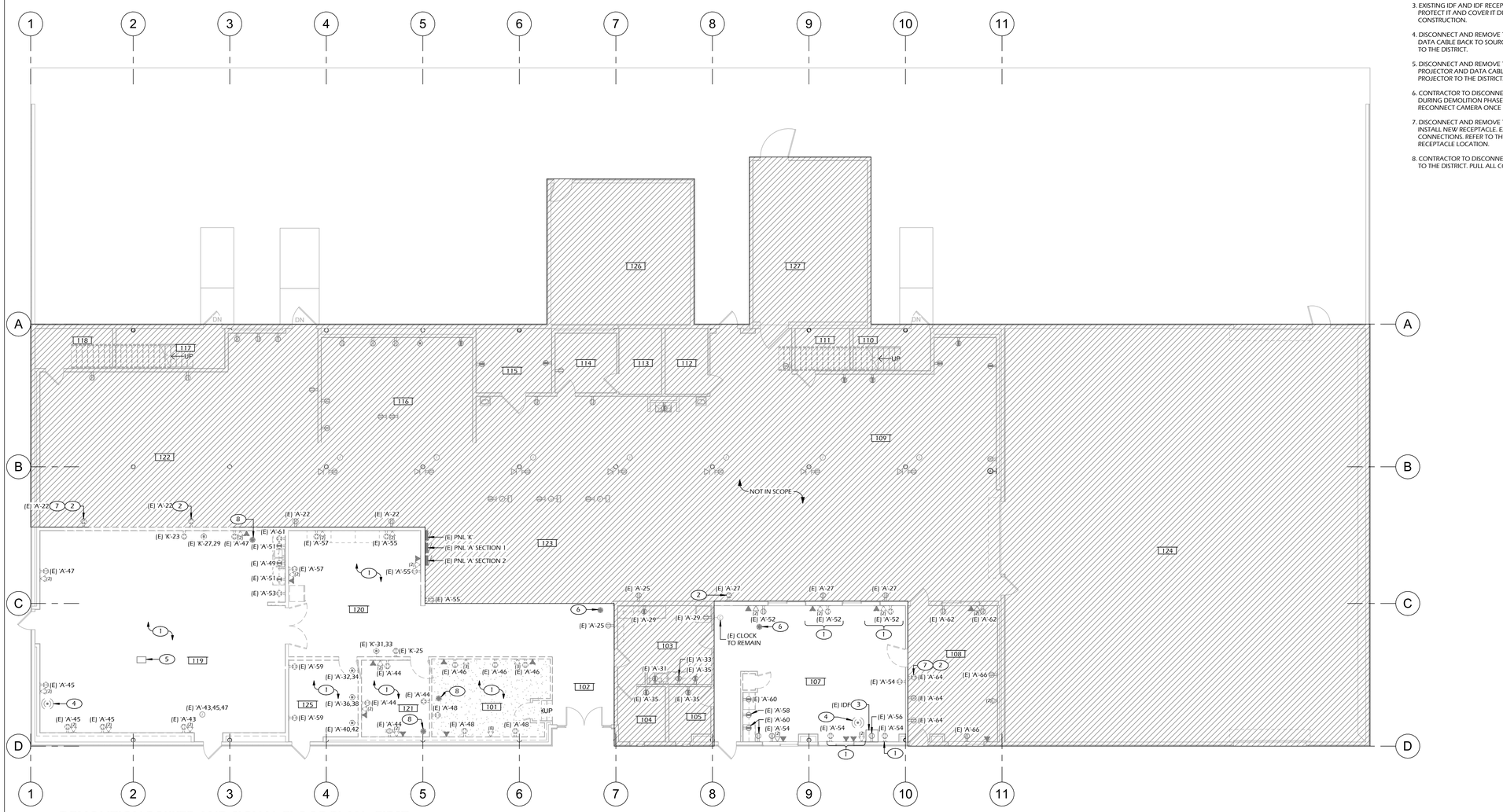

DEMOLITION POWER AND SIGNAL FLOOR PLAN - FIRST FLOOR

1/8" = 1'-0"

ROOM SCHEDULE

NEW BUILDING ROOMS

###	ROOM NAME	###	ROOM NAME
101	OFFICE	114	WOMENS R.R.
102	ENTRY	115	EQUIPMENT
103	STAFF LOUNGE	116	KITCHEN PREP.
104	WOMENS R.R.	117	STAIRWELL
105	MENS R.R.	118	STORAGE
106		119	DINING
107	OFFICE	120	SNACKS
108	OFFICE	121	OFFICE
109	SALAD PREP.	122	RACK STORAGE
110	STAIRWELL	123	FOOD PREPARATION
111	STORAGE	124	WAREHOUSE
112	MENS R.R.	125	STORAGE
113	WOMENS R.R.	126	REFR. WALK THRU

SHEET NOTES (8)

1. DISCONNECT AND DEMO THE EXISTING RECEPTACLES/ELECTRICAL EQUIPMENT POWER AND PULL BACK CONDUCTORS TO THEIR SOURCE. DISCONNECT AND REMOVE THE EXISTING DATA JACKS AND PULL BACK THE DATA CABLING BACK TO THE DATA IDF RACK.
2. DISCONNECT AND REMOVE THE EXISTING RECEPTACLE. PROVIDE AND INSTALL 3/4-INCH CONDUIT AND (3) #12 AWG CONDUCTORS TO REROUTE THE CIRCUIT WITHIN THE ATTIC SPACE SO UPSTREAM AND DOWNSTREAM RECEPTACLES REMAIN FUNCTIONAL.
3. EXISTING IDF AND IDF RECEPTACLE TO REMAIN. CONTRACTOR TO PROTECT IT AND COVER IT DURING DEMOLITION AND REMODEL CONSTRUCTION.
4. DISCONNECT AND REMOVE THE EXISTING WIRELESS ACCESS POINT DATA CABLE BACK TO SOURCE. RETURN THE WIRELESS ACCESS POINT TO THE DISTRICT.
5. DISCONNECT AND REMOVE THE EXISTING CEILING MOUNTED PROJECTOR AND DATA CABLE BACK TO SOURCE. RETURN THE PROJECTOR TO THE DISTRICT.
6. CONTRACTOR TO DISCONNECT THE EXISTING CAMERA AND PROTECT DURING DEMOLITION PHASE. CONTRACTOR TO REINSTALL AND RECONNECT CAMERA ONCE NEW T-BAR HAS BEEN INSTALLED.
7. DISCONNECT AND REMOVE THE EXISTING RECEPTACLE. PROVIDE AND INSTALL NEW RECEPTACLE. EXTEND THE EXISTING FEED AND MAKE ALL CONNECTIONS. REFER TO THE NEW FLOOR PLAN FOR NEW RECEPTACLE LOCATION.
8. CONTRACTOR TO DISCONNECT THE EXISTING CAMERA AND RETURN TO THE DISTRICT. PULL ALL CONDUCTORS BACK TO SOURCE.

DSA File No.:

DSA Application No.:

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Child Nutrition Kitchen Remodel

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769 S. Pine St, Madera, CA 93637
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Electrical Systems-Demolition Power and Signal Floor Plan - First Floor
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Architect

No.	Revision/Submission	Date

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1 **POWER AND SIGNAL FLOOR PLAN - FIRST FLOOR**
1/8" = 1'-0"

TEST KITCHEN - EQUIPMENT SCHEDULE

#	DESCRIPTION	ELECTRICAL VOLT	PH	AMPS	kW	CONNECTIONS	CONDUIT SIZE (IN)	CONDUCTOR #	CONDUCTOR SIZE	REMARKS
01.A & 01.B	ROLL IN BLAST CHILLER AND SHOCK FREEZER	208	3	31.4		HARWIRED	3/4	5	#8	REFER TO PLANS FOR CIRCUIT AND PANEL SCHEDULE FOR CIRCUIT BREAKER
02.A, 02.B, & 02.C	COMBINATION STEAMER & CONVECTION OVEN	208	3		67.9	HARWIRED	2	5	#3/0	〃
03.A & 03.B	TILTING SKILLET	208	3		23	HARWIRED	1-1/4	5	#4	〃
04	REACHIN FREEZER	120	1	11		NEMA 5-20R	3/4	3	#8	〃
05	REACHIN REFRIGERATOR	120	1	5.4		NEMA 5-15R	3/4	3	#8	〃
06	FOOD PREP 2 COMPARTMENT SINK									N/A
07	KITCHEN FAUCET									N/A
08	STAINLESS STEEL WORK COUNTER									N/A
09	HAND SINK									N/A
10	CAMSHELVING WITH VENTED SHELVES									N/A
11	CAMSHELVING WITH VENTED SHELVES									N/A
12	GREASE HOOD	120				HARWIRED	3/4	3	#12	REFER TO PLANS FOR CIRCUIT AND PANEL SCHEDULE FOR CIRCUIT BREAKER
13	GREASE HOOD	120				HARWIRED	3/4	3	#12	〃

GENERAL NOTES:
1. COORDINATE RECEPTACLE TYPE WITH EQUIPMENT PRIOR TO INSTALLATION.
2. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.

ROOM SCHEDULE

NEW BUILDING ROOMS

###	ROOM NAME	###	ROOM NAME
101	ENTRY	113	MENS R.R.
102	OPEN OFFICE	114	STORAGE
103	OFFICE	115	STAIRWELL
104	BREAK ROOM	116	SALAD PREP.
105	DRY STORAGE	117	WAREHOUSE
106	TEST KITCHEN	118	OFFICE
107	STORAGE	119	OPEN OFFICE
108	STAIRWELL	120	RECEPTION
109	KITCHEN PREP.	121	STAFF LOUNGE
110	EQUIPMENT	122	MENS R.R.
111	WOMENS LOCKERS	123	WOMENS R.R.
112	WOMENS R.R.		

SHEET NOTES (1)

1. NOT USED.
2. INSTALL ADJACENT TO GARBAGE DISPOSAL.
3. MOUNT ABOVE COUNTERTOP, COORDINATE WITH ARCHITECTURAL ELEVATIONS.
4. PROVIDE AND INSTALL A 12-INCH BLACK/WHITE BATTERY OPERATED CLOCK TO MATCH EXISTING.
5. PROVIDE AND INSTALL A 3/4" CONDUIT AND CAT6A DATA CABLE PROVISIONS BACK TO THE EXISTING IDF FOR FUTURE CAMERA.
6. PROVIDE AND INSTALL 3/4-INCH CONDUIT AND (3)#12 AWG CONDUCTORS BACK TO PANEL CIRCUIT INDICATED FOR THE ANSUL PANEL AND MAKE ALL CONNECTIONS.
7. PROVIDE AND INSTALL A 10x10x6 (HxWxD)-INCH DATA JUNCTION BOX WITH A 1-1/2-INCH LIQUID TIGHT FLEX CONNECTIONS FROM THE J-BOX TO THE DATA RACEWAY PORTION OF EACH ADJACENT STEELCASE CUBICLE PANEL SYSTEM WALL.
8. PROVIDE AND INSTALL A 10x10x4 (HxWxD)-INCH POWER JUNCTION BOX WITH A 1-1/4-INCH LIQUID TIGHT FLEX CONDUIT FOR ADJACENT STEELCASE CUBICLE PANEL SYSTEM WALL AND MAKE CONNECTIONS TO THE POWER INPUT TERMINAL. PROVIDE AND INSTALL AT LEAST ONE CONTROLLED RECEPTACLE FOR EACH WORKSTATION.
9. PROVIDE DEDICATED NEUTRAL WIRE FOR EACH CIRCUIT. PROVIDE ISOLATED GROUND WIRE. REFER TO MANUFACTURERS WIRING SCHEMATICS FOR SINGLE 3-PHASE CIRCUITS FROM PANEL.
10. CUBICLES CIRCUIT TO BE ROUTED VIA THE PLUG LOAD CONTROLLER. REFER TO TYPICAL ELECTRICAL DETAILS.

DSA File No.:

DSA Application No.:

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Architect

No.	Revision/Submission	Date

Revision

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Drawn By: Author
Checked By: Checker
Reviewed By: Approver

Scale: 1/8" = 1'-0"
Project Number: 2310
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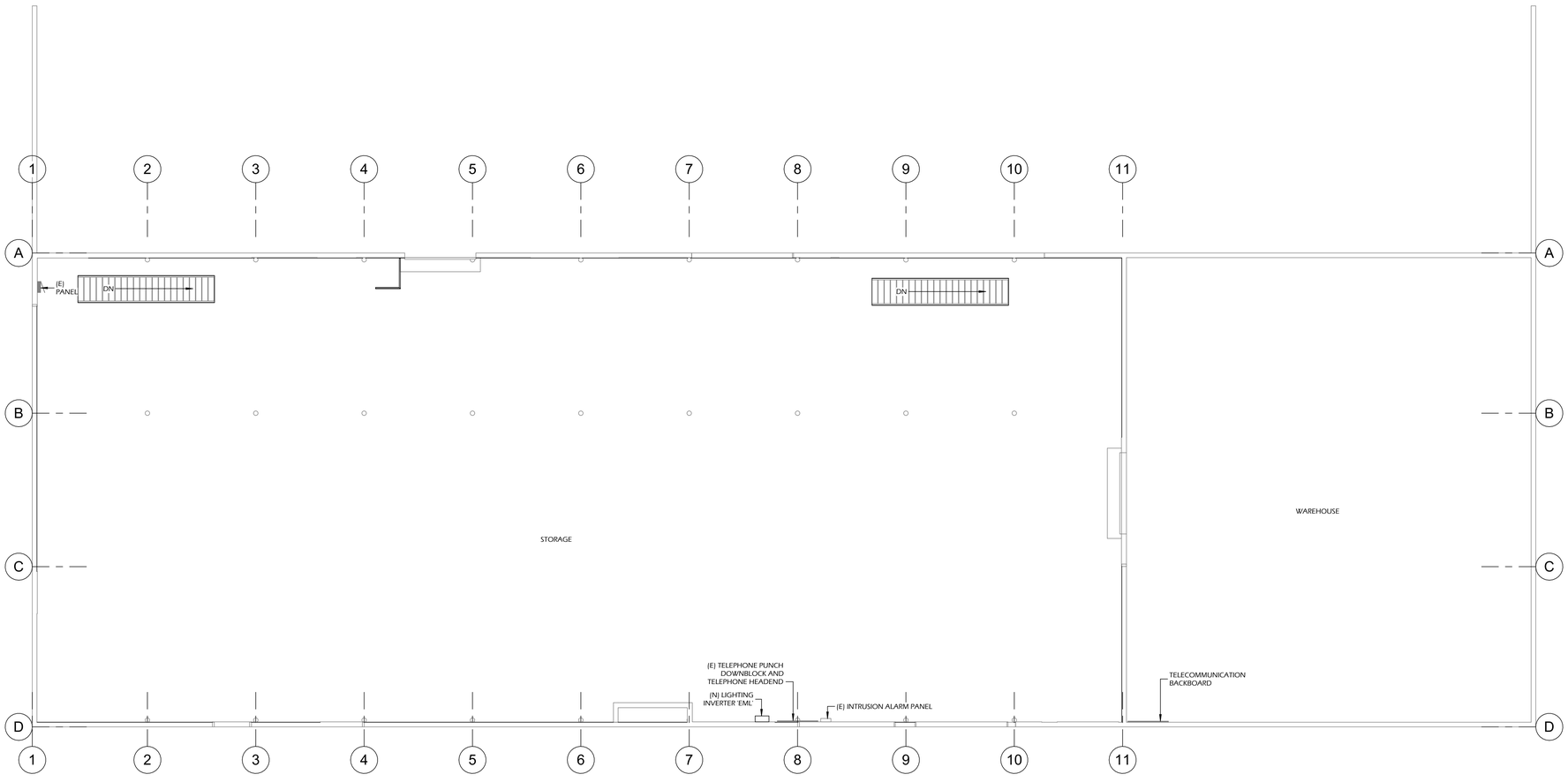

1 **POWER AND SIGNAL FLOOR PLAN - SECOND FLOOR**
1/8" = 1'-0"

DSA File No.:

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REGISTERED PROFESSIONAL ENGINEER — No.E16390 — ELECTRICAL — STATE OF CALIFORNIA

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Architect

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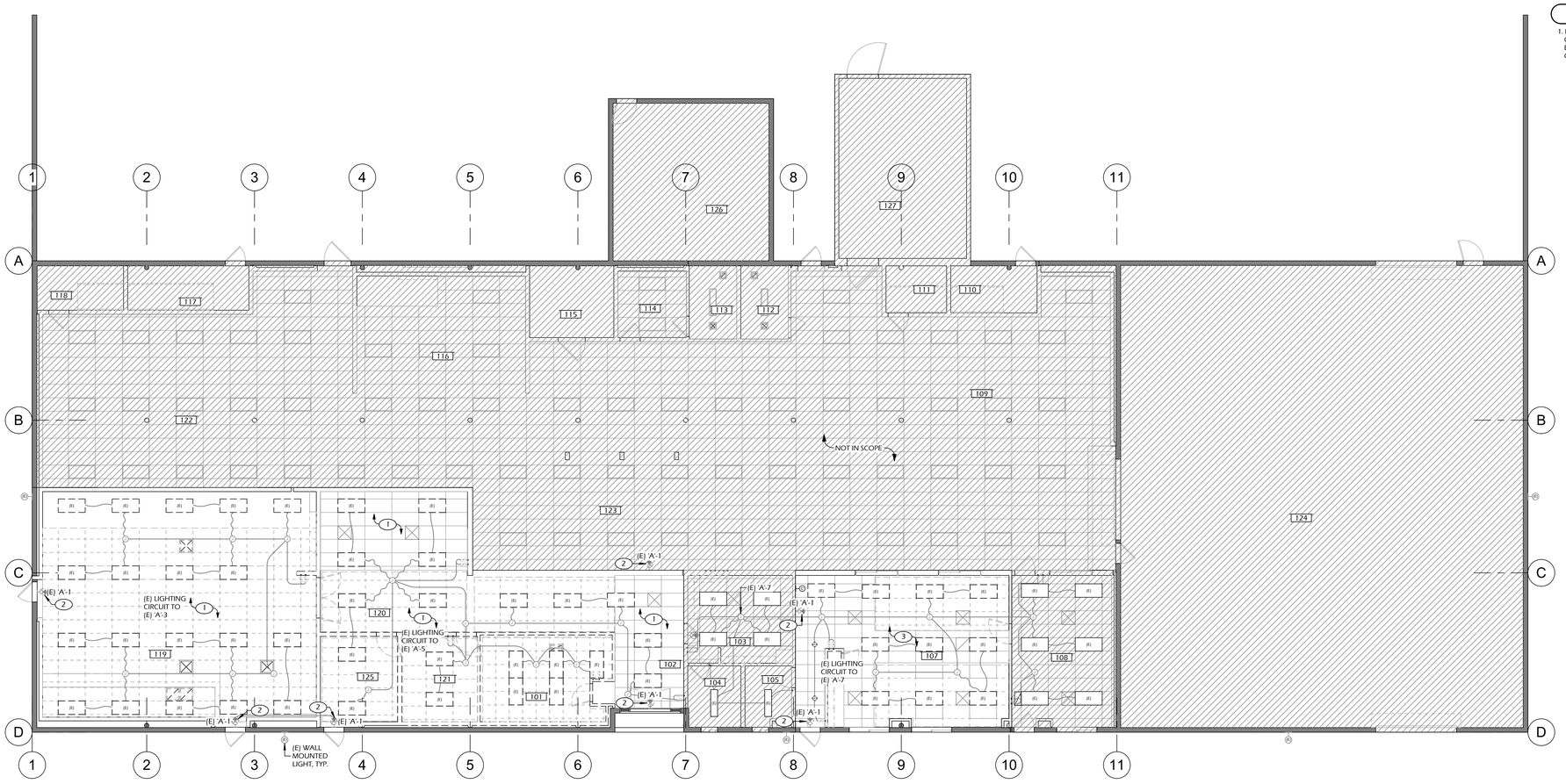

1 **DEMOLITION LIGHTING FLOOR PLAN - FIRST FLOOR**
1/8" = 1'-0"

ROOM SCHEDULE

NEW BUILDING ROOMS

###	ROOM NAME	###	ROOM NAME
101	OFFICE	114	WOMENS R.R.
102	ENTRY	115	EQUIPMENT
103	STAFF LOUNGE	116	KITCHEN PREP.
104	WOMENS R.R.	117	STAIRWELL
105	MENS R.R.	118	STORAGE
106		119	DINING
107	OFFICE	120	SNACKS
108	OFFICE	121	OFFICE
109	SALAD PREP.	122	RACK STORAGE
110	STAIRWELL	123	FOOD PREPARATION
111	STORAGE	124	WAREHOUSE
112	MENS R.R.	125	STORAGE
113	WOMENS R.R.	126	REFR. WALK THRU

SHEET NOTES

1. DISCONNECT AND REMOVE ALL EXISTING LIGHTING, LIGHTING SWITCHES, AND OCCUPANCY SENSORS. DISCONNECT THE EXISTING CIRCUITRY, CONDUIT, AND PULL BACK TO SOURCE.
2. DISCONNECT AND REMOVE THE EXISTING EXIT LIGHT FIXTURE. CONDUIT AND CONDUCTORS TO REMAIN. EXTEND THE EXISTING FEED WITH (3) #12 AWG WITHIN A 3/4-INCH CONDUIT TO FEED THE NEW EXIT LIGHT FIXTURE AND MAKE ALL CONNECTIONS, REFER TO THE NEW LIGHTING FLOOR PLAN.
3. DISCONNECT AND REMOVE ALL EXISTING LIGHTING AND SWITCHES. DISCONNECT THE EXISTING CIRCUITRY, CONDUIT, AND PULL BACK TO THE ADJACENT ROOM, STAFF LOUNGE, SO UPSTREAM LIGHTING LOAD REMAIN FUNCTIONAL.

GENERAL NOTES

1. FOR ALL FIXTURES THAT ARE MARKED FOR DEMO: DISCONNECT CIRCUITRY, PULL BACK TO JUNCTION BOX, AND REMOVE FIXTURES. ENSURE LIGHT FIXTURES THAT WILL REMAIN, BOTH INSIDE AND OUTSIDE THE WORK AREA, REMAIN FUNCTIONAL.

DSA File No.:

DSA Application No.:

Agency Approval

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Madera Unified School District
769 S. Pine St, Madera, CA 93637
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ROOM SCHEDULE

NEW BUILDING ROOMS

###	ROOM NAME	###	ROOM NAME
101	ENTRY	113	MENS R.R.
102	OPEN OFFICE	114	STORAGE
103	OFFICE	115	STAIRWELL
104	BREAK ROOM	116	SALAD PREP.
105	DRY STORAGE	117	WAREHOUSE
106	TEST KITCHEN	118	OFFICE
107	STORAGE	119	OPEN OFFICE
108	STAIRWELL	120	RECEPTION
109	KITCHEN PREP.	121	STAFF LOUNGE
110	EQUIPMENT	122	MENS R.R.
111	WOMENS LOCKERS	123	WOMENS R.R.
112	WOMENS R.R.		

GENERAL NOTES

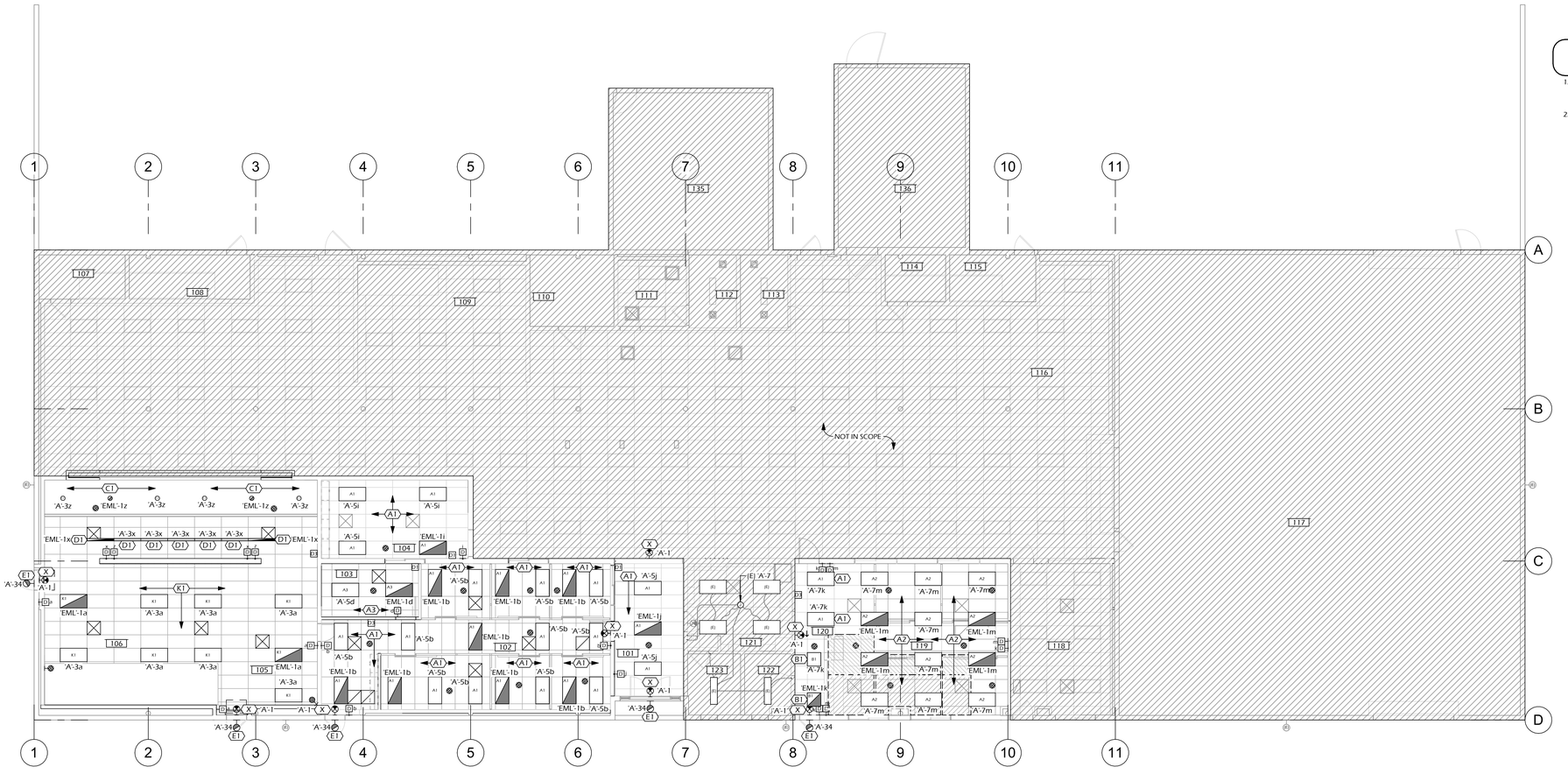
1. OCCUPANCY SENSOR TO BE INSTALLED 4 TO 6 FEET AWAY FROM AIR SUPPLY DUCTS. THE OCCUPANCY SENSOR SHALL BE INSTALLED BETWEEN 8 TO 10 FEET ABOVE FINISHED FLOOR.

2. EMERGENCY LIGHTING TO BE CONNECTED TO THE CIRCUIT INDICATED. PROVIDE AND INSTALL ONE WATTSTOPPER ELCU-200 FOR EACH SWITCH LEG AND CIRCUIT WITH EMERGENCY IN EACH ROOM TO PERMIT THE LIGHTING DIMMER AND/OR SWITCHES TO CONTROL THE EMERGENCY LIGHTING FIXTURES AS WELL AS THE GENERAL LIGHTING. WIRE PER THE MANUFACTURER'S SPECIFICATIONS. MOUNT THE ELCU-200'S ADJACENT TO THE ROOM CONTROLLERS FOR THE ROOM. MAKE ALL CONNETIONS FOR A FULLY FUNCTIONAL SYSTEM. ALL EMERGENCY LIGHTING CONNECTED TO THE LIGHTING INVERTER SHALL HAVE THE NORMAL CIRCUIT WITHIN THE ROOM CONNECTED TO THE EMERGENCY LIGHTING VIA THE ELCU-200. REFER TO THE ELCU-200 WIRING DIAGRAM AND MANUFACTURER REQUIREMENTS FOR CONNECTIONS. IN ROOM WITH MULTIPLE CIRCUITS CONNECT THE SAME NUMBER OF ELCU-200S.

LIGHTING SYSTEM NOTES

1. THE SYSTEM DESIGNED HERE IS A WATTSTOPPER LIGHTING SYSTEM. ALL OCCUPANCY SENSOR, PHOTO SENSORS, ETC. SHALL BE NETWORKED TOGETHER WITH THE ROOM CONTROLLER.

2. OCCUPANCY SENSING CONTROLS INSTALLED IN CORRIDORS AND STAIRWELLS SHALL SEPARATELY REDUCE THE LIGHTING POWER IN EACH SPACE BY AT LEAST 50 PERCENT WHEN THE SPACE IS UNOCCUPIED. WHEN THE SPACE IS OCCUPIED, THE SENSING CONTROLS SHALL BE CAPABLE OF AUTOMATICALLY TURNING THE LIGHTING FULL ON ONLY IN THE SEPARATELY CONTROLLED SPACE REGARDLESS OF ANY OTHER CONTROL.



1 **LIGHTING FLOOR PLAN - FIRST FLOOR**
1/8" = 1'-0"

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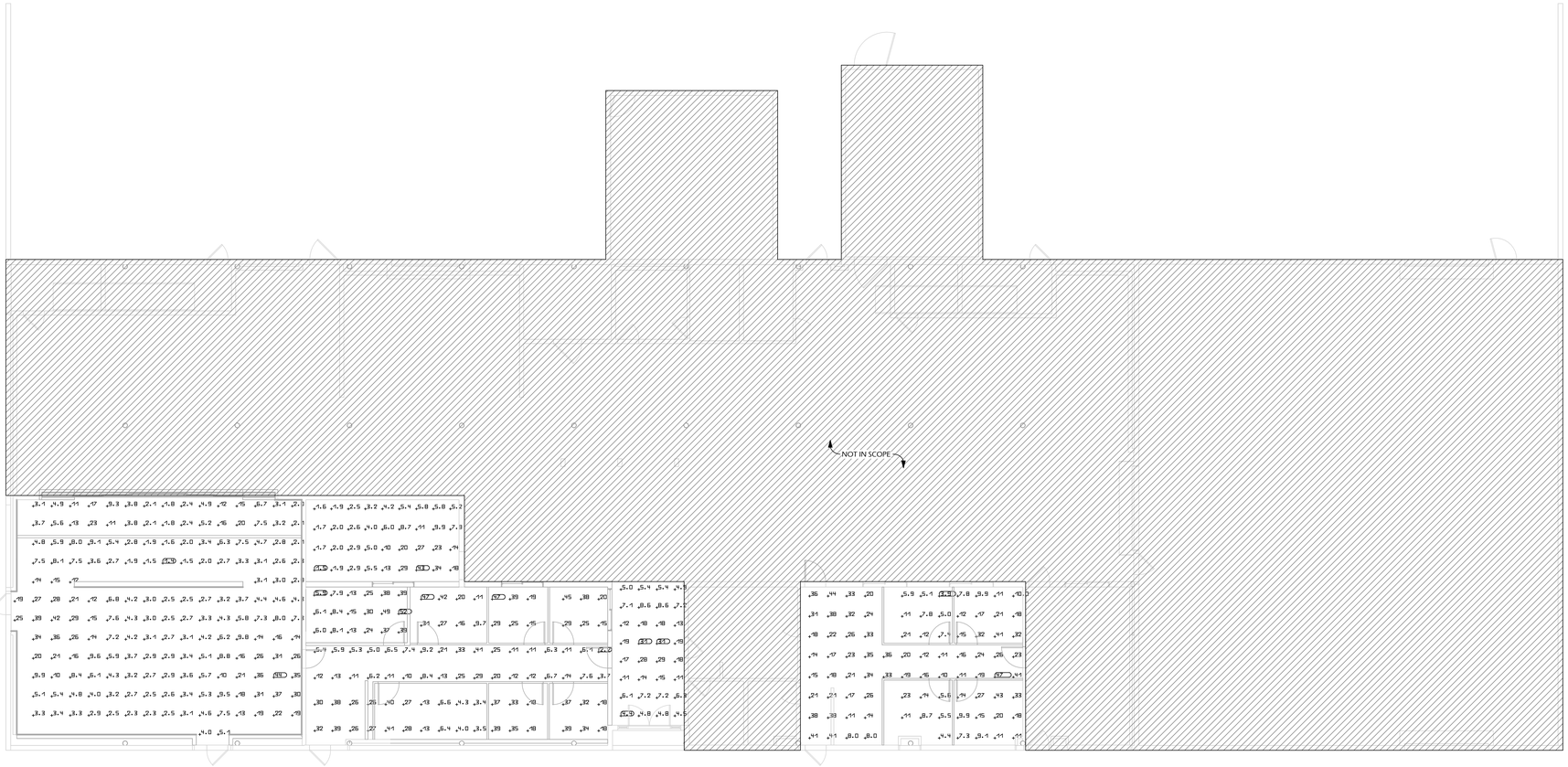

EMERGENCY PHOTOMETRIC LIGHTING PLAN - FIRST FLOOR

1/8" = 1'-0"

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Project

Electrical Systems-Emergency Photometric Lighting Plan - First Floor

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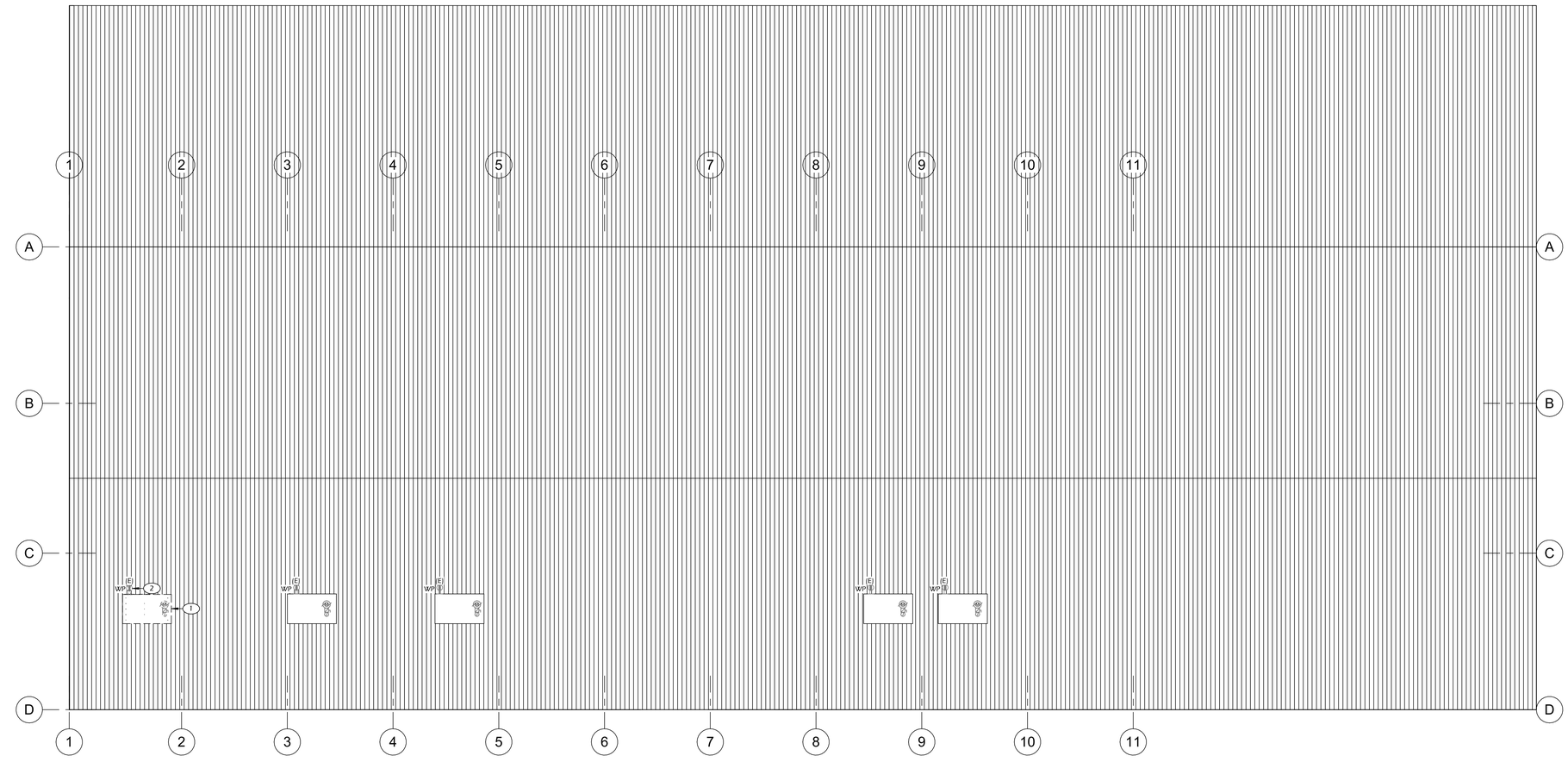

1 **DEMOLITION ELECTRICAL ROOF PLAN**
1/8" = 1'-0"

SHEET NOTES 4

1. DISCONNECT AND REMOVE POWER TO EXISTING HVAC UNIT AND EXTEND THE EXISTING CIRCUIT FEED WITH (3) #8 AWG CONDUCTORS AND (1) #8 AWG GROUND CONDUCTOR WITHIN A 1-INCH CONDUIT TO THE NEW LOCATION OF THE RELOCATED EXISTING MECHANICAL UNIT. PROVIDE AND INSTALL A NEW FUSED DISCONNECT PER MECHANICAL UNIT'S NAME PLATE AND MAKE ALL CONNECTIONS.

2. DISCONNECT AND REMOVE THE EXISTING RECEPTACLE. EXTEND THE EXISTING CIRCUIT FEED WITH (3) #10 AWG CONDUCTORS WITHIN A 3/4-INCH CONDUIT TO THE NEW LOCATION OF THE RELOCATED EXISTING MECHANICAL UNIT. PROVIDE AND INSTALL A NEW GFCI WEATHERPROOF RECEPTACLE AND MAKE ALL CONNECTIONS.

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LICENSED ARCHITECT MICHAEL K. FENNOY No. C23724 Rec. 4-30-25 STATE OF CALIFORNIA

Architect

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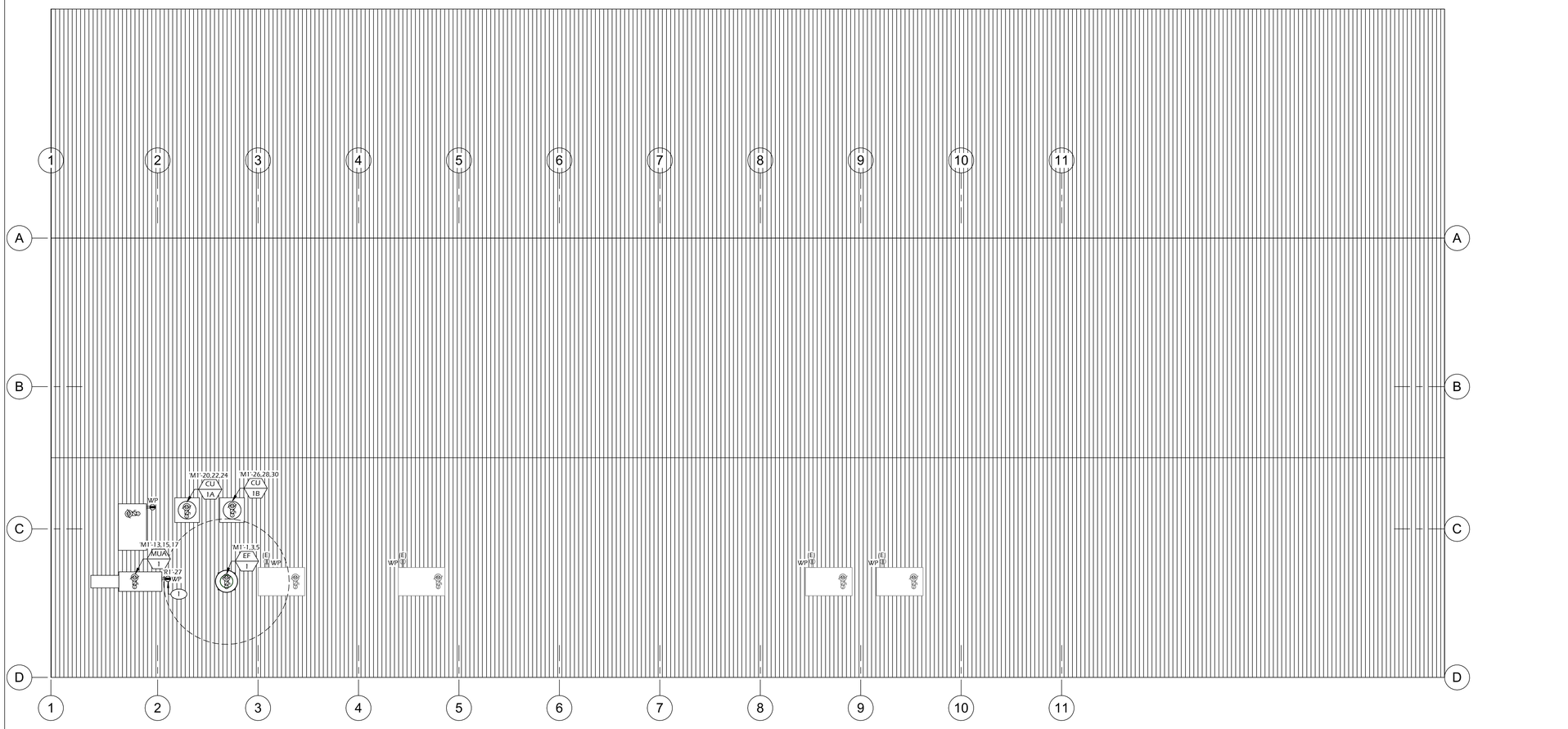
SHEET NOTES (#)

1. PROVIDE AND INSTALL 3/4-INCH CONDUIT AND (3) #10 AWG CONDUCTORS WITHIN BACK TO PANEL CIRCUIT INDICATED.

GENERAL NOTES (!)

1. REFER TO MEHCANICAL DRAWINGS FOR EXACT LOCATION OF MECHANICAL UNITS.



1 **ELECTRICAL ROOF PLAN**
1/8" = 1'-0"

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SCAN ME

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Project

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Architect

No.	Revision/Submission	Date

Revision

	Designed By: Designer	Copyright Darden Architects
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Project Number: 2310	Checked By: Checker	X/E120
Date: Issue Date	Reviewed By: Approver	