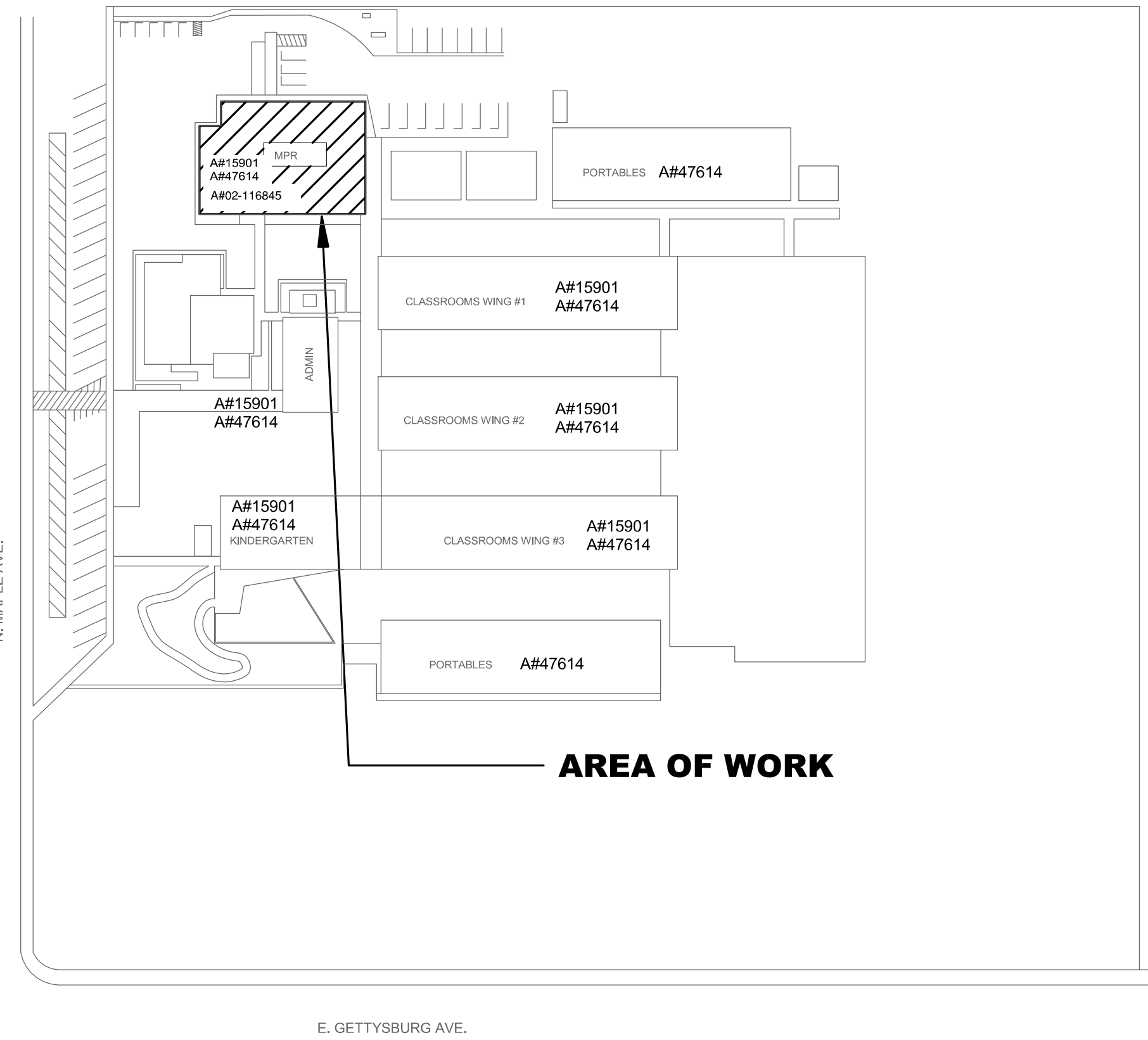


FRESNO UNIFIED SCHOOL DISTRICT VINLAND ELEMENTARY SCHOOL MULTIPURPOSE BUILDING HVAC REPLACEMENT

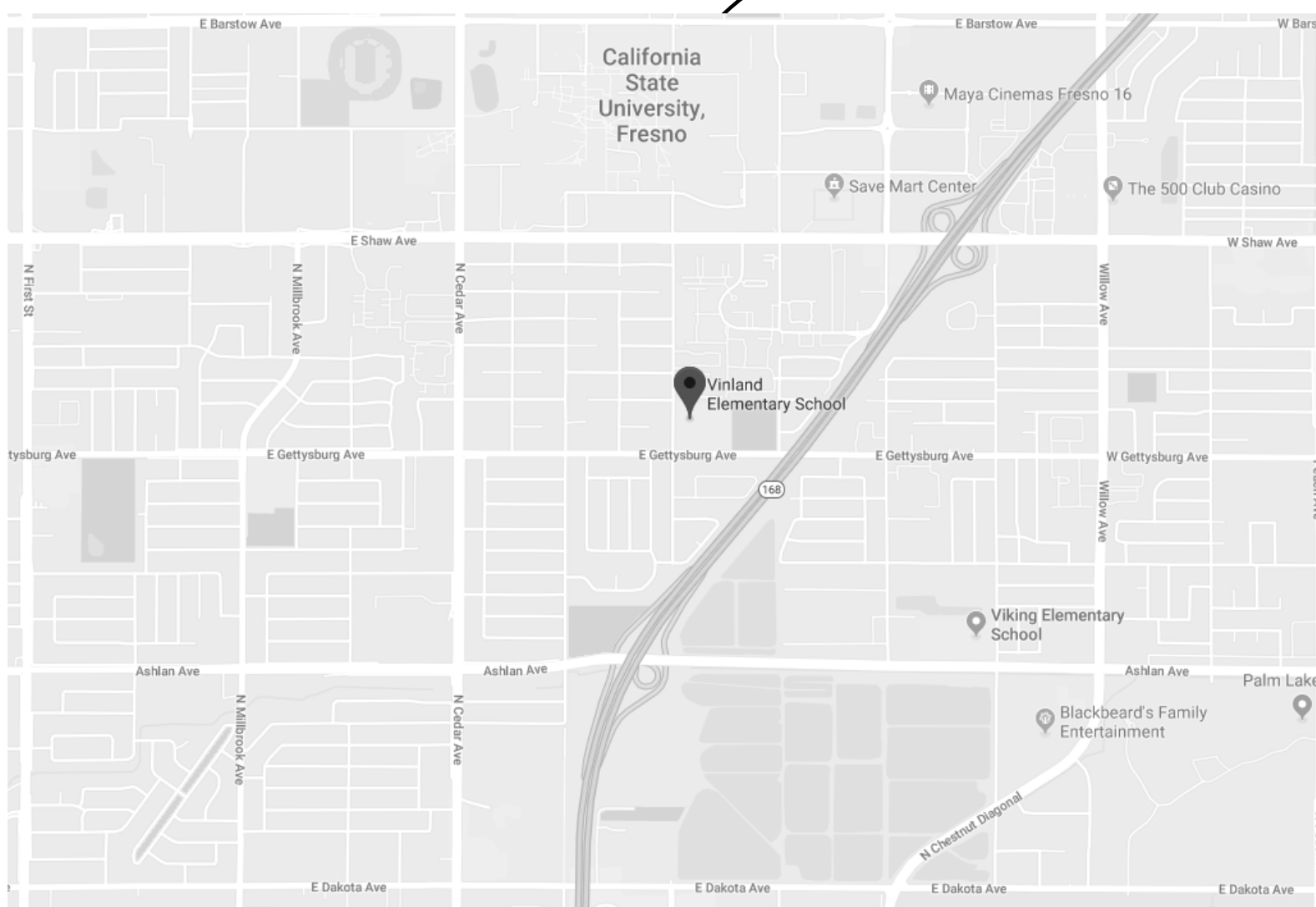
4666 N MAPLE AVE,
FRESNO, CA 93726



OVERALL SITE PLAN

N.T.S

2



VICINITY MAP

N.T.S

1

OWNER

CLIENT
FRESNO UNIFIED SCHOOL DISTRICT
FACILITIES MANAGEMENT & PLANNING
4600 N. BRAWLEY AVE.
FRESNO, CA 93722
tel: (559) 994-6526

PROJECT MANAGER: RONIKA BARNES

ENGINEER

STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL

IMEG CORP.
901 VIA PIEMONTE, SUITE 400
ONTARIO, CA 91764
tel: (909) 477-9615
fax: (909) 477-6916

PROJECT MANAGER: KERRY PARKER
STRUCTURAL ENGINEER: EDWIN NAJARIAN
MECHANICAL ENGINEER: ERIC DESPLINTER
ELECTRICAL ENGINEER: NESTOR IGNACIO

CODE REFERENCES

- 2019 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 1
- 2019 CALIFORNIA BUILDING CODE (CBC)
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 2
2018 INTERNATIONAL BUILDING CODE
- 2019 CALIFORNIA ELECTRICAL CODE (CEC)
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 3
(2017 NATIONAL ELECTRICAL CODE (NEC))
- 2019 CALIFORNIA MECHANICAL CODE
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 4
(2018 UNIFORM MECHANICAL CODE (UMC))
- 2019 CALIFORNIA PLUMBING CODE
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 5
(2018 UNIFORM PLUMBING CODE (UPC))
- 2019 CALIFORNIA ENERGY CODE (CEC)
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 6
- 2019 CALIFORNIA FIRE CODE (CFC)
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 9
(2018 INTERNATIONAL FIRE CODE (IFC) AND 2018 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 11
- 2019 CALIFORNIA REFERENCED STANDARDS CODE
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 12
- AMERICANS WITH DISABILITIES ACT (ADA)
TITLE II - ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES (ADAG)
1990 STATE FIRE MARSHAL REGULATIONS AND AMENDMENTS TO-DATE
- CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, CALIFORNIA STATE
ACCESSIBILITY STANDARDS
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 19
- TITLE 19 CALIFORNIA CODE OF REGULATIONS
PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
- CFC CH 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION

STATEMENT OF GENERAL CONFORMANCE

Statement of General Conformance

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

(Application No. 02-118208 File No. 10-48)

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

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

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

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

I certify that:		<input checked="" type="checkbox"/> All drawings or sheets listed on the cover or index sheet <input type="checkbox"/> This drawing or page	
<input checked="" type="checkbox"/> Is/are in general conformance and Has/have been coordinated	<input type="checkbox"/> Is/are in general conformance and Has/have been coordinated		
Signature: Eric DeSplinter	Date: 08/01/2020	Signature:	Date:
Architect or Engineer designated to be in general responsible charge.		Architect or Engineer delegated responsibility for this portion of the work.	
Print Name: Eric DeSplinter	Print Name:		
License Number: M38688	Exp. Date: 12/31/2021	License Number:	Exp. Date:

Maintenance Plan Review and Inspection Procedures				
FUSD MAINTENANCE PLAN REVIEW				
SHOP	REVIEWER NAME (PRINT)	REVIEW DATE	STATUS	
			APPROVED	FURNISH AS CORRECTED
IRRIGATION			<input type="checkbox"/>	<input type="checkbox"/>
GENERAL MAINTENANCE			<input type="checkbox"/>	<input type="checkbox"/>
METAL TRADES			<input type="checkbox"/>	<input type="checkbox"/>
ROOFING			<input type="checkbox"/>	<input type="checkbox"/>
GLAZING			<input type="checkbox"/>	<input type="checkbox"/>
LOCK SHOP			<input type="checkbox"/>	<input type="checkbox"/>
FLOORING			<input type="checkbox"/>	<input type="checkbox"/>
PLUMBING			<input type="checkbox"/>	<input type="checkbox"/>
HVAC			<input type="checkbox"/>	<input type="checkbox"/>
EMS			<input type="checkbox"/>	<input type="checkbox"/>
ELECTRICAL			<input type="checkbox"/>	<input type="checkbox"/>
TELECOMM			<input type="checkbox"/>	<input type="checkbox"/>
IT - DATA			<input type="checkbox"/>	<input type="checkbox"/>
ELECTRONICS			<input type="checkbox"/>	<input type="checkbox"/>

PLAN REVIEW PROCEDURE

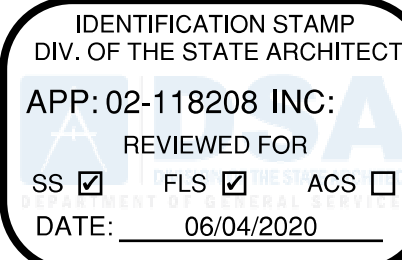
Design Guidelines from Maintenance as well as any project related comments will be offered at conceptual.
Maintenance plan and spec review will take place at 60% Just prior to DSA submission.
Both Plans & Specs will have review block shown above.
Facilities PMs or Assistant PMs will notify Tim Patterson via email with a Cc to Jason Duke when plans are available for review.
There will be a one week review period offered. Review appointments will be scheduled by Tim Patterson
Maintenance Plan Review Calendar is on Facilities SharePoint.
Telecomm & Data Review will be coordinated through Jack Pambukyuan 457-3165 (jack.pambukyuan@fresnounified.org)
Plan Reviewer will meet with either the Facilities PM or Assistant PM.
Plan reviewer will utilize a red sharpie or similar to comment and/or correct.
Architect will scan review set and return original to FUSD.

INSPECTION PROCEDURE - This procedure is to be included in the Pre-Construction Package

Inspections & timing of inspections will be much like those of local municipalities.
Inspections will be requested by contractor via email to the PM, IOR & Tim Patterson
Inspections will take place within 48 hours of request.
IOR will coordinate exact day and time through Tim Patterson, the Shop with Cc to PM.
IOR will walk inspection with shop representative and PM if necessary.
Comments and/or corrections will be noted in IOR daily log and in issues log.
Any discrepancies and/or disagreements will be settled by the PM & Consultants.

SHEET INDEX

T-1	TITLE SHEET
M0.1	GENERAL NOTES, LEGEND, ABBREVIATIONS AND DRAWING LIST
M0.2	SCHEDULES
M0.3	TITLE 24
M2.1	DEMOLITION FLOOR PLAN
M2.2	DEMOLITION ROOF PLAN
M3.1	REMODEL FLOOR PLAN
M3.2	REMODEL ROOF PLAN
M4.1	DETAILS
M4.2	DETAILS
M5.1	CONTROLS
E0.1	GENERAL NOTES, LEGEND, ABBREVIATIONS AND DRAWING LIST
E1.1	OVERALL SITE PLAN
E2.1	DEMOLITION POWER PLAN
E2.2	DEMOLITION ROOF PLAN
E3.1	REMODEL POWER PLAN
E3.2	REMODEL ROOF PLAN
E4.1	DETAILS
Grand total: 18	



VINLAND KITCHEN HVAC ADDITION

4666 N MAPLE AVE,
FRESNO, CA 93726



901 VIA PIEMONTE
SUITE 400
ONTARIO, CA
91764

PH: 909.477.6915
FAX: 909.477.6916
www.imegcorp.com

PROFESSIONAL SEAL



CONSULTANT

PROJECT DESCRIPTION

PROJECT LOCATION:

4666 N MAPLE AVE,
FRESNO, CA 93726

PROJECT CLASSIFICATION: (INSPECTOR CLASSIFICATION #3)

CLASS 3 PROJECT

ARCHITECTURAL SCOPE:

PATCH FLOORS, WALLS, ROOFS, TO MATCH EXISTING.

STRUCTURAL SCOPE:

BUILDINGS: MULTI-PURPOSE

REMOVE AND REPLACE EXISTING ROOF TOP HVAC UNITS.
REVIEW STRUCTURAL MOUNTING DETAIL AND EXISTING ATTACHMENT
TO STRUCTURE CONDITIONS.

MECHANICAL SCOPE:

BUILDINGS: MULTI-PURPOSE

REMOVE EXISTING EVAPORATIVE COOLERS SERVING THE EXISTING KITCHEN
AND REPLACE WITH DX HEAT PUMP SYSTEMS.

PLUMBING SCOPE:

BUILDINGS: MULTI-PURPOSE

INSTALL NEW CONDENSATE PIPING TO SERVICE NEW DX HEAT PUMP SYSTEMS.
EXTENT OF NEW PIPING IS DETERMINED WHERE EXISTING PIPES TERMINATE
EITHER ON THE ROOF OR THE SIDE OF THE BUILDING.

ELECTRICAL SCOPE:

BUILDINGS: MULTI-PURPOSE

REMOVE POWER LINE AND DISCONNECT SERVING EXISTING HVAC EQUIPMENT
BEING REMOVED.

INSTALL NEW POWER LINE AND DISCONNECT TO THE NEW DX HEAT PUMP
SYSTEMS.

ADDITIONAL PROJECT SCOPE:

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

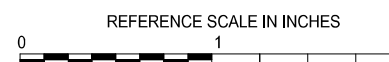
THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE
ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24,
CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING
CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS
WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION
CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING
AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA
BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(c), PART 1, TITLE 24, CCR)

CHANGE TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR
CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION
4-338, PART 1, TITLE 24, CCR.

A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED
BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE
INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.

DISCLAIMER

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THE DATA SHOWN THEREON. S&B DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF
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REVISIONS

No. Date Revision / Issue

SHEET INFORMATION

Issue	BID SET
Date	10/20/2020
Job Number	19000642.00
Drawn	Author
Checked	Checker
Approved	Approver

SHEET TITLE
TITLE SHEET

SCALE

Scale: AS NOTED

SHEET NUMBER

T-1

19000642.00 6/2/2020 8:26:34 AM VINLAND KITCHEN HVAC ADDITION

BLOWER COIL UNIT SCHEDULE

NOTES:

1.COMPLETE WITH INTEGRAL CONDENSATE PUMP, PROGRAMMABLE WALL MOUNTED THERMOSTAT, AND CONTROLLER COMPATIBLE WITH EXISTING JOHNSON CONTROLS EMS SYSTEM.

TAG NAME	AREA SERVED	CONFIGURATION	MAX. CFM	COOLING		HEATING		ELECTRICAL			FILTER	MANUFACTURER	MODEL	WEIGHT	ANCHORAGE DETAIL	NOTES
				TOTAL MBH	TOTAL MBH	HP	VOLTAGE	PHASES	MCA	MOCP						
FC-1	KITCHEN	4 WAY CASSETTE	1095	31.5	39.4	0.16	208	1	0.92	15	MANUFACTURER HIGH EFFICIENCY FILTER	Mitsubishi Electric	TPLFYP036EM140A	70	2/M4.1	1
FC-2	KITCHEN	WALL MOUNT	920	21	26.6	0.1	208	1	0.63	15	INCLUDED WITH UNIT	Mitsubishi Electric	TPKFYP024KM142A	50	5/M4.2	1

CONDENSING UNIT SCHEDULE

NOTES:													
TAG NAME	AREA SERVED	NOMINAL DESIGN TONS	SEER	REFRIGERANT	ELECTRICAL				MANUFACTURER	MODEL	WEIGHT	ANCHORAGE DETAIL	NOTES
					VOLTAGE	PHASES	MCA	MOCP					
CU-1	KITCHEN	5	20	R-410A	208	1	36	45	Mitsubishi Electric	TUMYP0601AK42NA	300	1/M4.1	

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118208 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☐
DATE: 06/04/2020



VINLAND KITCHEN
HVAC ADDITION
4666 N MAPLE AVE,
FRESNO, CA 93726



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ONTARIO, CA
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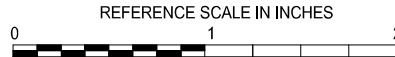
PROFESSIONAL SEAL



CONSULTANT

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REVISIONS

No.	Date	Revision / Issue
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SHEET INFORMATION

Issue	BID SET
Date	10/20/2020
Job Number	19000642.00
Drawn	ZM
Checked	JM
Approved	ED

SHEET TITLE
SCHEDULES

SCALE

Scale:

SHEET NUMBER

M0.2

STATE OF CALIFORNIA
Mechanical Systems
NRC-MCH-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)(2) for alterations.

Project Name: Vinland ES Kitchen Report Page: (Page 1 of 9)
Project Address: 4666 N Maple Ave Date Prepared: 3/25/2020

A. GENERAL INFORMATION			
01 Project Location (City)	Fresno	04 Total Conditioned Floor Area	583
02 Climate Zone	13	05 Total Unconditioned Floor Area	0
03 Occupancy Types Within Project:		06 # of Stories (Habitable Above Grade)	1
<input type="checkbox"/> Office (B)	<input type="checkbox"/> Retail (M)	<input type="checkbox"/> Non-refrigerated Warehouse (S)	
<input type="checkbox"/> Hotel/ Motel Guest Rooms (R-1)	<input type="checkbox"/> School (E)	<input type="checkbox"/> Healthcare Facility (H)	
<input type="checkbox"/> High-Rise Residential (R-2/R-3)	<input type="checkbox"/> Relocatable Class Bldg (E)	<input checked="" type="checkbox"/> Other (write in)	See Table J

B. PROJECT SCOPE This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)(2) for alterations.		
01 Air System(s)	02 Wet System Components	03 Dry System Components
<input checked="" type="checkbox"/> Heating Air System	<input type="checkbox"/> Water Economizer	<input type="checkbox"/> Air Economizer
<input checked="" type="checkbox"/> Cooling Air System	<input type="checkbox"/> Pumps	<input type="checkbox"/> Electric Resistance Heat
<input type="checkbox"/> Mechanical Controls	<input type="checkbox"/>	<input checked="" type="checkbox"/> Fan Systems
<input checked="" type="checkbox"/> Mechanical Controls	<input type="checkbox"/> Cooling Towers	<input type="checkbox"/> Ductwork
	<input type="checkbox"/> Chillers	<input checked="" type="checkbox"/> Ventilation
	<input type="checkbox"/> Boilers	<input type="checkbox"/> Zonal Systems/ Terminal Boxes

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.0.001 Schema Version: rev 20190401
Registration Provider: Energysoft
Report Generated: 2020-03-25 13:28:27

STATE OF CALIFORNIA
Mechanical Systems
NRC-MCH-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-MCH-E
Project Name: Vinland ES Kitchen Report Page: (Page 4 of 9)
Project Address: 4666 N Maple Ave Date Prepared: 3/25/2020

H. FAN SYSTEMS & AIR ECONOMIZERS							
This table is used to demonstrate compliance with prescriptive requirements found in §140.4(c), §140.4(d), and §140.4(m) for fan systems. Fan systems serving healthcare facilities, or those serving only process loads, are exempt from these requirements and do not need to be included in this table.							
System Name:	FC-1&2/CU-1	Economizer ¹	Differential Temperature	Economizer Controls:	Designed per and (m)	System Fan Type:	Fixed Flow
01		02	03	04	05	06	07
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	Device
SF	Supply	1	2015	BHP	0.17		Design Airflow Through Device (CFM)
EF	Exhaust	1	0	BHP	0.25		
Total System Design Supply Airflow (CFM):			2015	Total System Design (BHP):		0.42	Maximum System Fan Power (BHP):
							1.89

¹ FOOTNOTES: Computer room economizers must meet requirements of §140.5(a), and will be documented on the NRCC-PRC-E document.
² If total filter pressure drop (SPa) is greater than 1 in WC, or 245 Pascal then enter it and total fan pressure drop across the fan (SPf) for system.

I. SYSTEM CONTROLS This table is used to demonstrate compliance with mandatory controls in §110.2 and §120.2, and prescriptive controls in §140.4(f), and (n) or requirements in §141.0(b)(2) for altered space conditioning systems.								
01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft ²)	Thermostats §110.2(b), & (c) ¹ , §120.2(a) or §141.0(b)(2)	Shut-Off Controls §120.2(b)	Isolation Zone Controls §120.2(a)	Demand Response §120.2(b)	Supply Air Temp. Reset §140.4(f)	Window Interlocks per §140.4(n)
FC-1&2/CU-1	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided

¹ FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.
² Notes: Controls with a * require a note in the space below explaining how compliance is achieved. EX: system 1: SA Temp Reset: Exempt because zones compliant with §140.4(f); EXCEPTION 1 to §140.4(f)

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.0.001 Schema Version: rev 20190401
Registration Provider: Energysoft
Report Generated: 2020-03-25 13:28:27

STATE OF CALIFORNIA
Mechanical Systems
NRC-MCH-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-MCH-E
Project Name: Vinland ES Kitchen Report Page: (Page 7 of 9)
Project Address: 4666 N Maple Ave Date Prepared: 3/25/2020

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE				
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/				
Yes	No	Form/Title	Field Inspector	
			Pass	Fail
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes". If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-04-A - Air Distribution Duct Leakage	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-05-A - Air Economizer Controls	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to §120.2(a)(3)) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO ₂) concentration setpoints.	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-07-A Supply Fan Variable Flow Controls	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-08-A Valve Leakage Test	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-09-A Supply Water Temperature Reset Controls	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-10-A Hydraulic System Variable Flow Controls	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-11-A Automatic Demand Shed Controls	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance NOTE: This form does not automatically move to "Yes". If Distributed Energy System DX AC Systems are included in the scope permit applicant should move this form to "Yes".	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance NOTE: This form does not automatically move to "Yes". If Chilled water Storage, Ice-on-Coil Internal Melt, Ice-on-Coil External melt, Ice Harvester, Brine, Ice Slurry, Eutectic Salt, Clathrate Hydrate Slurry (CHS), Cryogenic or Encapsulated (Ice Ball) Systems are included in the scope, permit applicant should move this form to "Yes".	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-16-A Supply Air Temperature Reset Controls	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-17-A Condenser Water Temperature Reset Controls	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-18-A Energy Management Control Systems	<input type="checkbox"/>	<input type="checkbox"/>

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.0.001 Schema Version: rev 20190401
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STATE OF CALIFORNIA
Mechanical Systems
NRC-MCH-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-MCH-E
Project Name: Vinland ES Kitchen Report Page: (Page 2 of 9)
Project Address: 4666 N Maple Ave Date Prepared: 3/25/2020

C. COMPLIANCE RESULTS									
Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, or the table indicated as not compliant for guidance.									
01	02	03	04	05	06	07	08	09	
System Summary §110.1, §110.2, §140.4	Pumps §140.4(f)	Fans/Economizers §140.4(f), §140.4(g)	System Controls §110.2, §120.2, §140.4(f)	Ventilation §120.1, §140.4(f)	Terminal Box Controls §140.4(f)	Distribution §120.3, §140.4(f)	Cooling Towers §110.2(a)(2)	Compliance Results	
(See Table F)	(See Table G)	(See Table H)	(See Table I)	(See Table J)	(See Table K)	(See Table L)	(See Table M)		
Mandatory Measures Compliance (See Table Q for Details)									
Yes	AND	AND	Yes	AND	Yes	AND	Yes	AND	COMPLIES

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

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

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS) This table is used to demonstrate compliance for mechanical equipment with mandatory requirements found in §110.1 and §110.2(a), and prescriptive requirements found in §140.4(a), §140.4(b), and §140.4(c), or §141.0(b)(2) for alterations.										
Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters)										
01	02	03	04	05	06	07	08	09	10	11

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.0.001 Schema Version: rev 20190401
Registration Provider: Energysoft
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STATE OF CALIFORNIA
Mechanical Systems
NRC-MCH-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-MCH-E
Project Name: Vinland ES Kitchen Report Page: (Page 5 of 9)
Project Address: 4666 N Maple Ave Date Prepared: 3/25/2020

J. VENTILATION AND INDOOR AIR QUALITY									
This table is used to demonstrate compliance with mandatory ventilation requirements in §120.1, and §120.2(c)(38) for all nonresidential, high-rise residential and hotel/motel occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflow may be shown on the plans or the calculations can be presented in a spreadsheet.									
01	<input type="checkbox"/>	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.							
02	<input type="checkbox"/>	Check this box if the project included new or altered high-rise residential dwelling units.							
03	<input type="checkbox"/>	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per §120.1(c)(2).							
Nonresidential and Hotel/ Motel Ventilation Systems									
04		05		06		07			
System Name	FC-182/CU-1	System Design OA CFM Airflow ¹	87.45	System Design Transfer Air CFM	0	Air Filtration per §120.1(c) and §141.0(b)(2) ²			
						Provided per §120.1(c) (NR and Hotel/Motel)			
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)(3) ¹		Conditioned (A of Shower Floor Area (ft ²))		Required Min OA CFM	Exh. Vent per §120.1(c)(4)	DCV or Sensor Controls per §120.1(d)(3), §120.1(d)(5), and §120.1(e)(3) ⁴		
Occupancy Type ¹				# of people ³	Required Min CFM	Provided per CFM			
Kitchen	All others	583		87.4	408.1	410	DCV NA: Not required per §120.1(e)(3)		
							DCV Sensor		

¹ FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system.
² Air filtration requirements apply to the following three system types per §120.1(c)(16): space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.
³ Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.
⁴ See Standards Tables 120.1.4 and 120.1.6.
⁵ For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.
⁶ §120.2(c)(3) requires systems serving rooms that are required by §130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stock aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by §130.1(c).

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O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE	
<input type="checkbox"/>	NRCA-MCH-19-A Occupancy Sensor Controls
<input type="checkbox"/>	NRCA-MCH-20 Multi-Family Ventilation
<input type="checkbox"/>	NRCA-MCH-21 Multi-Family Envelope Leakage

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be completed by a HERS Rater and provided to the building inspector during construction. The final documents must be created by a HERS Provider registry, but drafts can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCC/

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRVC-MCH-04-H Duct Leakage Test NOTE: Must be completed by a HERS Rater	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRVC-MCH-24 Enclosure Air Leakage Worksheet NOTE: Must be completed by a HERS Rater	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRVC-MCH-27 High-rise Residential NOTE: Must be completed by a HERS Rater	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRVC-MCH-32 Local Mechanical Exhaust NOTE: Must be completed by a HERS Rater	<input type="checkbox"/>	<input type="checkbox"/>

Q. MANDATORY MEASURES DOCUMENTATION LOCATION This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.	
01	02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block ¹	Plan sheet or construction document location
	M-Sheets

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STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE NRCC-MCH-E
Project Name: Vinland ES Kitchen Report Page: (Page 3 of 9)
Project Address: 4666 N Maple Ave Date Prepared: 3/25/2020

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)										
Name or Item Tag	Equipment Category per Tables 110.2	Equipment Type per Tables 110.2 & Title 20	Smallest Size Available ¹ §140.4(a)	Equipment Sizing per Mechanical Schedule (Btu/h) §140.4 (a&b)						
				Heating Output ^{1,2}			Cooling Output ^{1,2}			
				Per Design (kBtu/h)	Rated (kBtu/h)	Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load	Total Sensible Cooling Load	
FC-182/CU-1	Unitary Heat Pumps	Air-cooled, split (3 phase)	Yes	52296	66000	13311	54789	59000	50290	39045

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

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))								
01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode			Cooling Mode			
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
FC-1&2/CU-1	65,000		HSPF	8.2	12	SEER	13.0	20

G. PUMPS
This section does not apply to this project.

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Project Name: Vinland ES Kitchen Report Page: (Page 6 of 9)
Project Address: 4666 N Maple Ave Date Prepared: 3/25/2020

K. TERMINAL BOX CONTROLS
This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK AND PIPING)
This section does not apply to this project.

M. COOLING TOWERS
This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION							
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCCI/							
Yes	No	Form/Title	Field Inspector				
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCCI-MCH-01-E - Must be submitted for all buildings	<table><tr><td>Pass</td><td>Fail</td></tr><tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr></table>	Pass	Fail	<input type="checkbox"/>	<input type="checkbox"/>
Pass	Fail						
<input type="checkbox"/>	<input type="checkbox"/>						

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.0.001 Schema Version: rev 20190401
Registration Provider: Energysoft
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STATE OF CALIFORNIA
Mechanical Systems
NRC-MCH-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-MCH-E
Project Name: Vinland ES Kitchen Report Page: (Page 9 of 9)
Project Address: 4666 N Maple Ave Date Prepared: 3/25/2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Zachary Mueller
Company: IMEG Corp
Address: 901 Via Piemonte Suite 400
City/State/Zip: Ontario CA 91764

Signature Date: 03/25/2020
C24 HERS Certification Identification (if applicable):
Phone:

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 the 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: Eric DeSplinter
Date Signed: 2020-03-25
Company: IMEG Corp
Address: 901 Via Piemonte
City/State/Zip: Ontario CA 91764

Responsible Designer Signature: Eric DeSplinter
License: M38688
Phone:

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
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VINLAND KITCHEN
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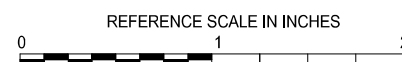
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SHEET INFORMATION

Issue	BID SET
Date	10/20/2020
Job Number	19000642.00
Drawn	ZM
Checked	JM
Approved	ED

SHEET TITLE
TITLE 24

SCALE

SHEET NUMBER

M0.3

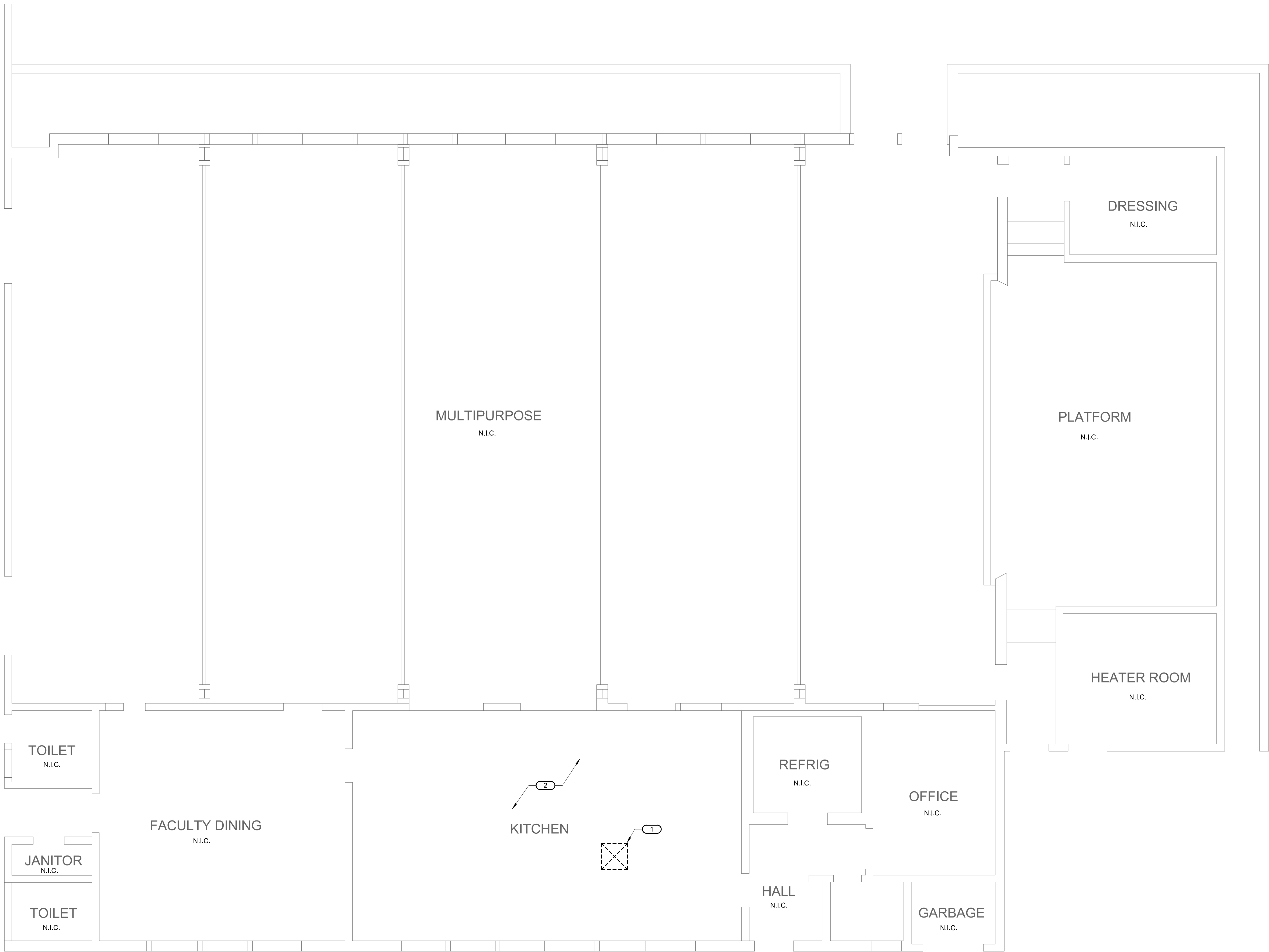
19000642.00 6/2/2020 8:26:40 AM VINLAND KITCHEN HVAC ADDITION



1

DEMOLITION FLOOR PLAN

1/4" = 1'-0"



DEMOLITION KEYNOTES: (#)

1. EXISTING SUPPLY DUCT AND DIFFUSER FOR EXISTING EVAPORATIVE COOLER TO BE DEMOLISHED. PREPARE OPENING FOR NEW CEILING CASSETTE FAN COIL BEING INSTALLED IN THIS LOCATION.
2. FIELD LOCATE ELECTRICAL CONTROLS/SWITCHES ASSOCIATED WITH EXISTING EVAPORATIVE COOLER BEING DEMOLISHED AND COORDINATE WITH DISTRICT M&O DEPARTMENT FOR EITHER REMOVAL OR PROTECT IN PLACE.

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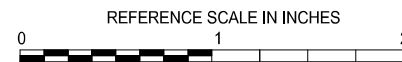
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Issue	BID SET
Date	10/20/2020
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Drawn	ZM
Checked	JM
Approved	ED

SHEET TITLE

DEMOLITION FLOOR PLAN

SCALE

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

SHEET NUMBER

M2.1

19000642.00 6/2/2020 8:26:43 AM VINLAND KITCHEN HVAC ADDITION

DEMOLITION KEYNOTES: (C#)

1. EXISTING EVAPORATIVE COOLER TO BE DEMOLISHED, ASSOCIATED CURB AND BLOCKING TO BE DEMOLISHED.
2. EXISTING MECHANICAL EQUIPMENT TO REMAIN AND BE PROTECTED IN PLACE. CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGES CAUSED DURING DEMOLITION.

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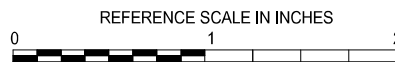
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SHEET TITLE

DEMOLITION ROOF PLAN

SCALE

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

SHEET NUMBER

M2.2

EXHIBIT B



1

DEMOLITION ROOF PLAN

1/4" = 1'-0"

19000642.00 6/2/2020 8:26:46 AM VINLAND KITCHEN HVAC ADDITION



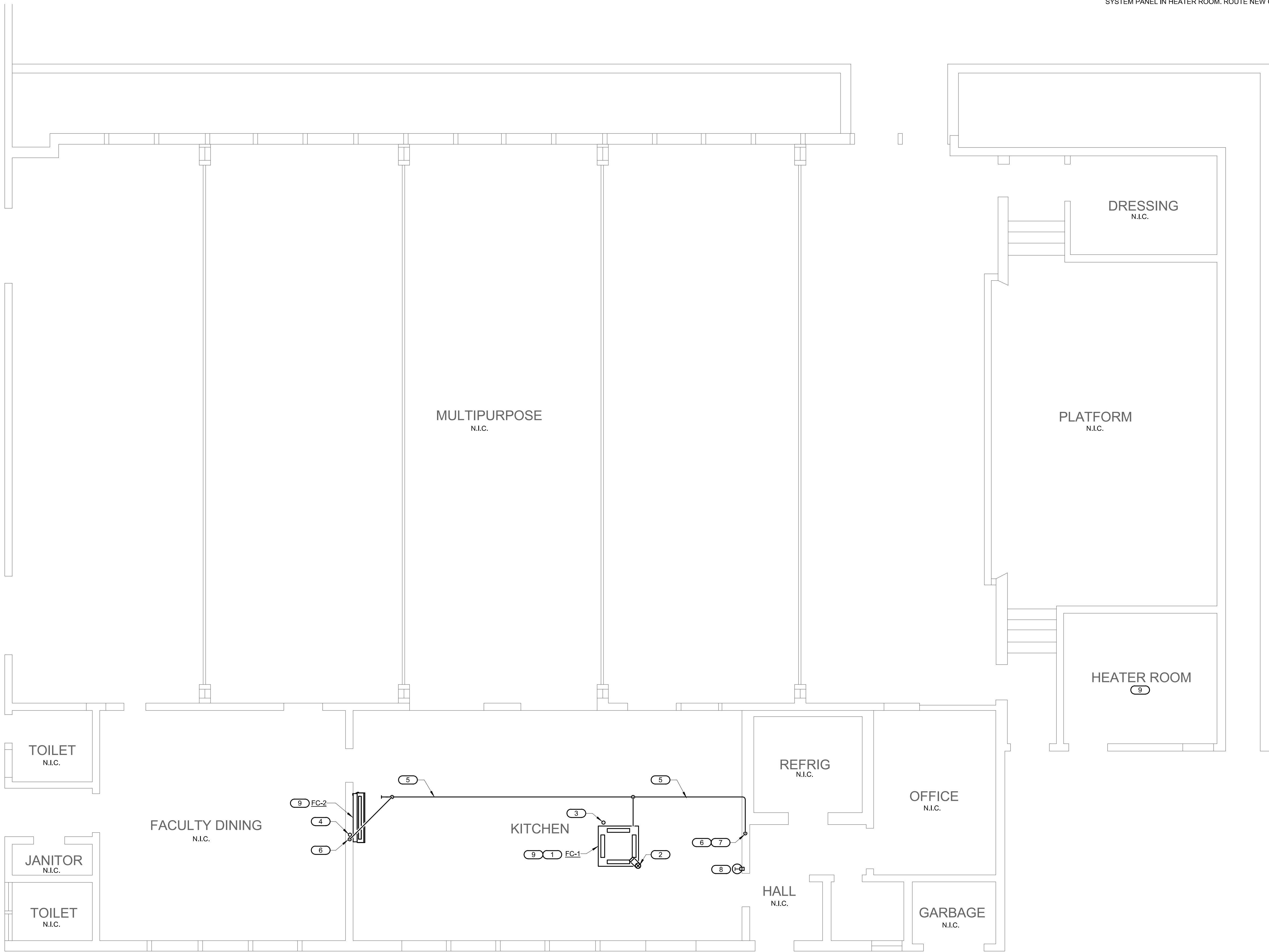
1

REMODEL FLOOR PLAN

1/4" = 1'-0"

REMODEL KEYNOTES: (#

1. NEW FAN COIL TO BE INSTALLED IN EXISTING OPENING IN CEILING.
2. NEW 4" OSA DUCT UTR TO NEW ROOF CAP. REFER TO DETAIL 5M4.1. BALANCE OSA TO MIN 85 CFM.
3. REFRIGERANT LINES IN CEILING SPACE TO FC-1.
4. REFRIGERANT LINES IN (E)WALL TO FC-2.
5. 3/4" CONDENSATE LINE IN CEILING SPACE.
6. 3/4" CONDENSATE LINE IN (E)WALL. REMOVE DRYWALL BETWEEN STUDS IN ORDER TO INSTALL PIPE IN WALL. PATCH AND PAINT WALL TO MATCH EXISTING AFTER PIPE INSTALLATION.
7. CONNECT CONDENSATE LINE INTO (E)SINK TRAP. INSTALL NEW TRAP WITH CONDENSATE LINE CONNECTION IF NECESSARY. REFER TO DETAIL 6/M4.2.
8. INSTALL NEW DDC THERMOSTAT AND TIE INTO BOTH FAN COIL UNITS.
9. CONNECT NEW FAN COIL CONTROLLERS TO EXISTING JOHNSON CONTROLS EMS SYSTEM PANEL IN HEATER ROOM. ROUTE NEW CONDUIT AS NEEDED.



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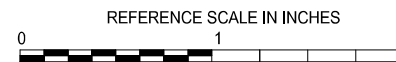
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REMODEL FLOOR PLAN

SCALE

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

SHEET NUMBER

M3.1

EXHIBIT B

19000642.00 6/2/2020 8:26:49 AM VINLAND KITCHEN HVAC ADDITION



1

REMODEL ROOF PLAN

1/4" = 1'-0"

REMODEL KEYNOTES: (E) #

1. NEW OSA INTAKE CAP TO BE INSTALLED IN EXISTING ROOF OPENING.
2. FOR REFRIGERANT LINE THROUGH ROOF REFER TO 1/M4.2
3. EXISTING MECHANICAL EQUIPMENT TO REMAIN AND BE PROTECTED IN PLACE. CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGES CAUSED DURING CONSTRUCTION.
4. EXISTING ROOF OPENING TO BE PATCHED TO MATCH EXISTING FINISH, RATING, AND CONSTRUCTION TYPE. PATCHING MUST ADHEAR TO ANY AND ALL REQUIREMENTS NECESSARY TO MAINTAIN EXISTING WARRANTY. COORDINATE WITH DISTRICT PRIOR TO STARTING CONSTRUCTION.
5. BALANCE EXISTING KITCHEN EXHAUST FAN TO MIN 410 CFM PER TITLE 24 REQUIREMENTS.

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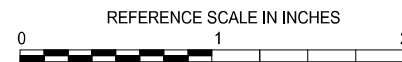
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REMODEL ROOF PLAN

SCALE

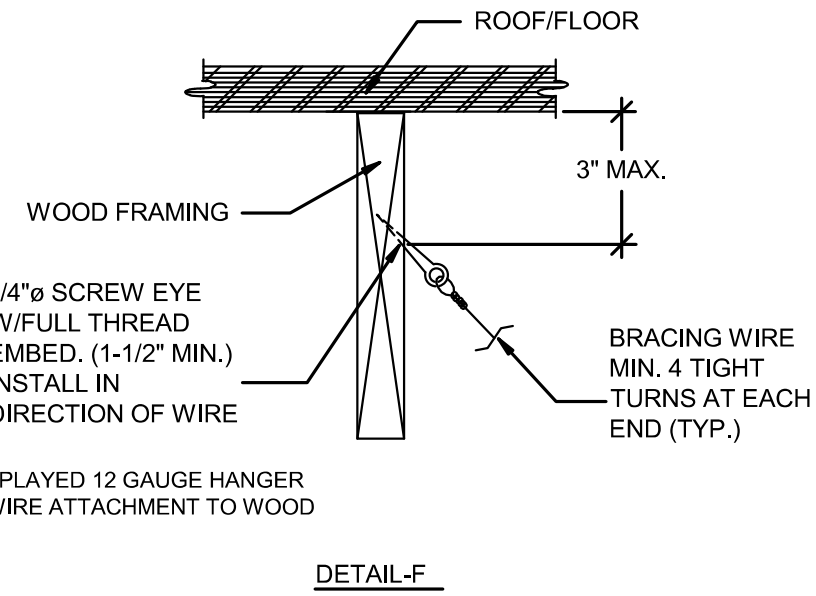
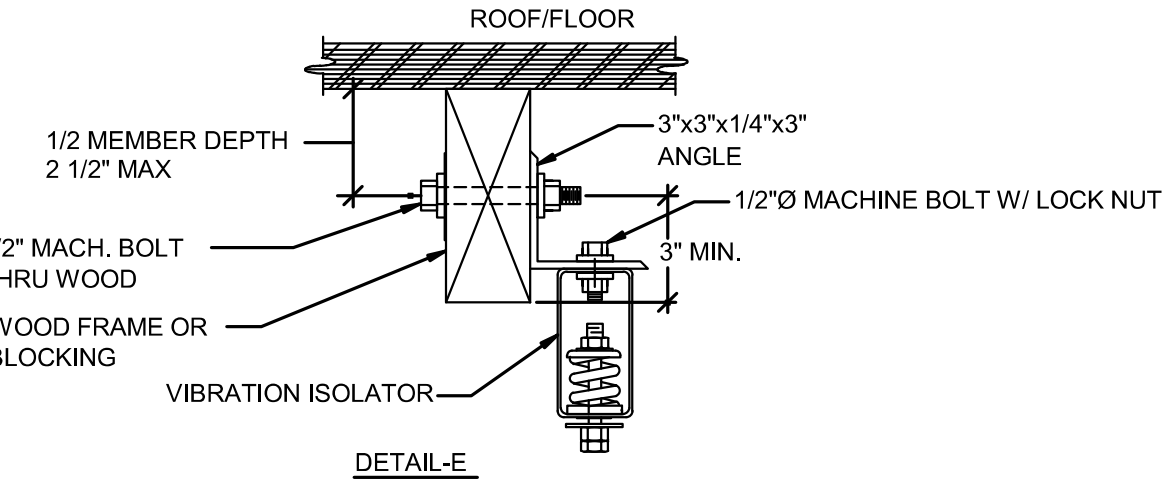
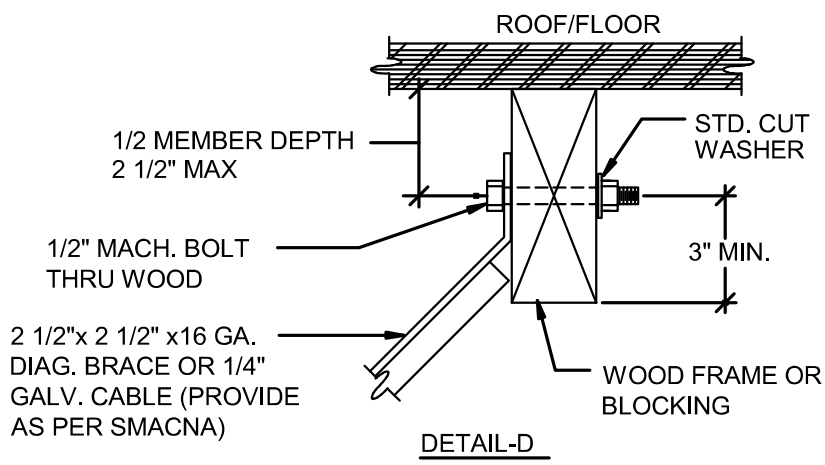
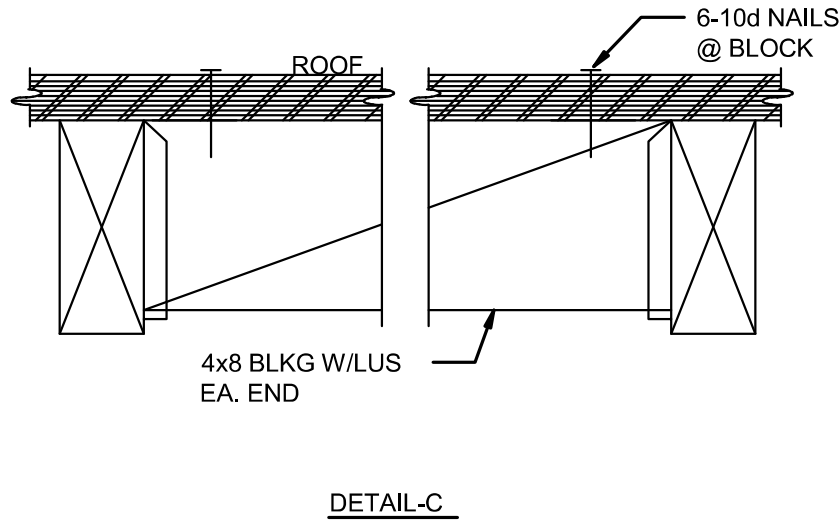
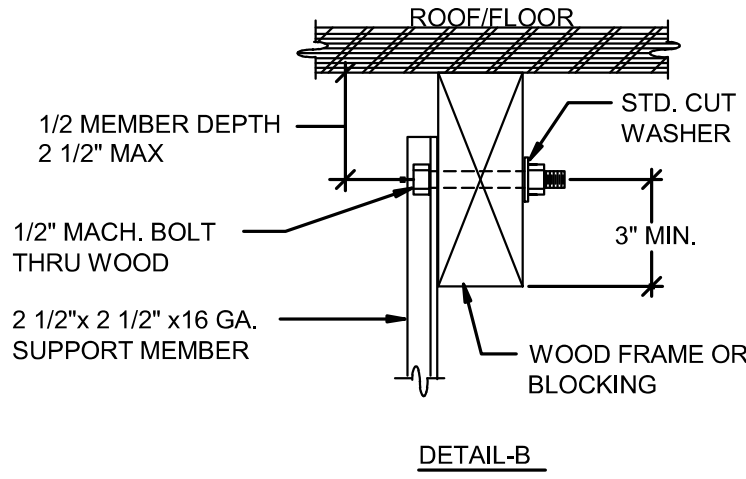
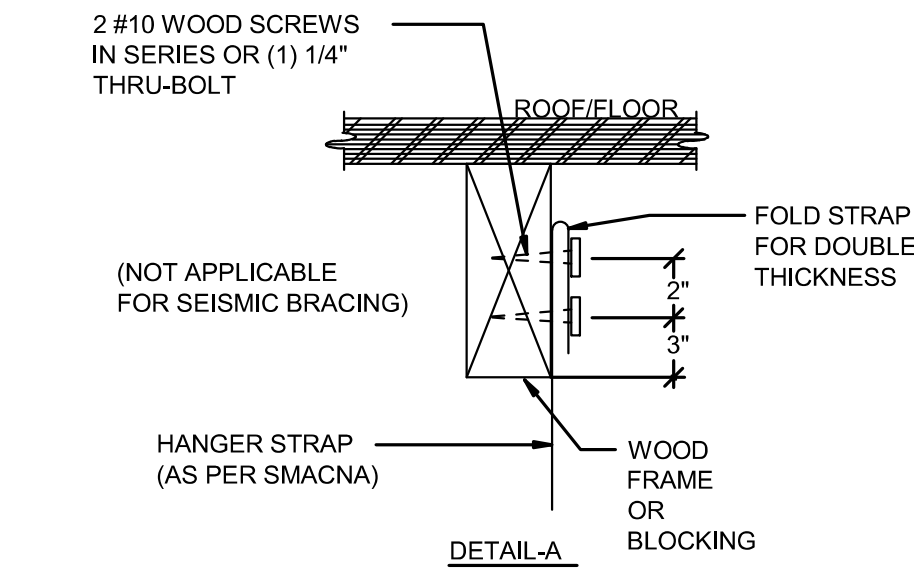
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SHEET NUMBER

M3.2

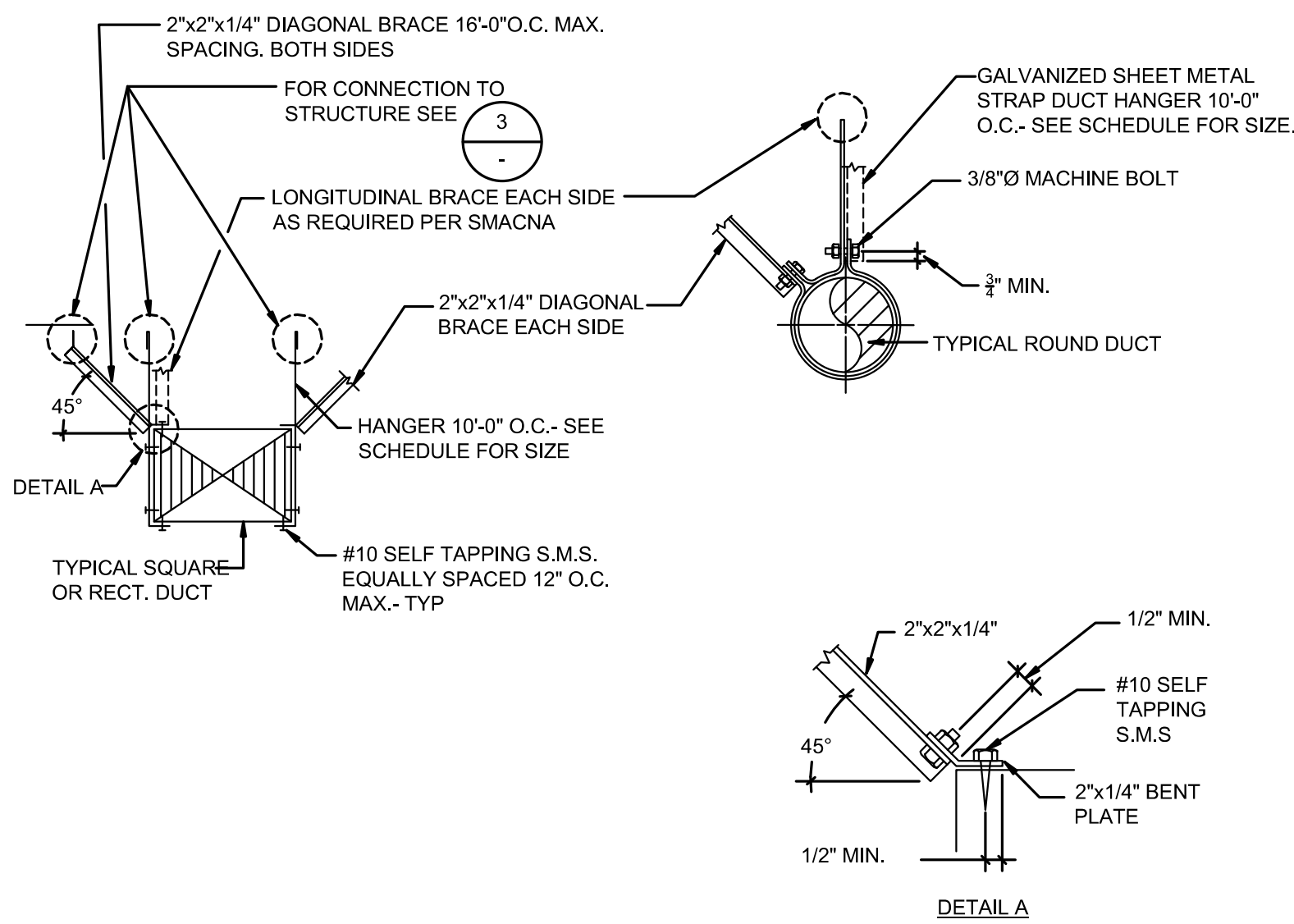
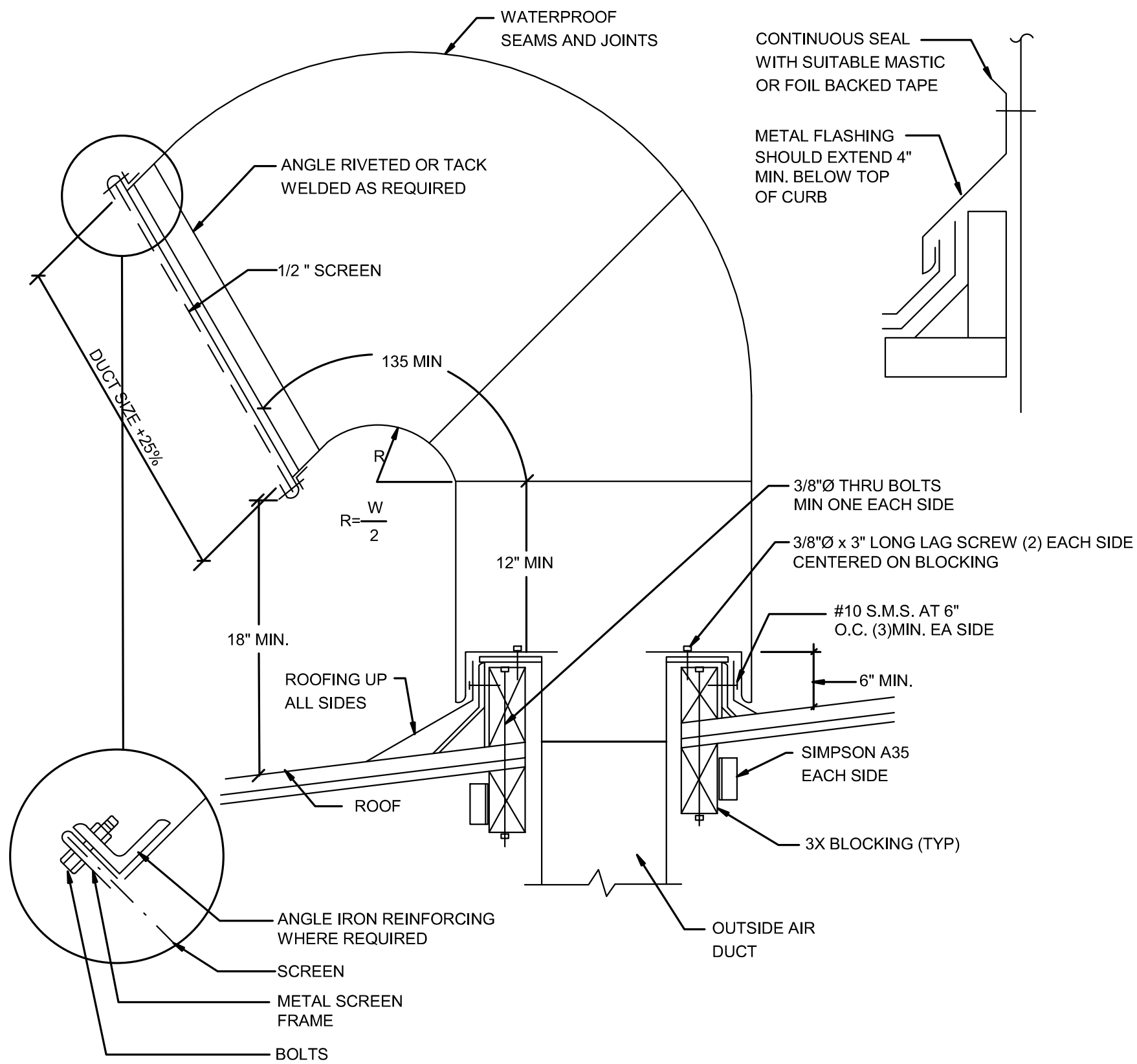
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DUCT, PIPE, AND EQUIPMENT SUPPORT CONNECTION TO STRUCTURE

NTS 3



RECTANGULAR DUCT			ROUND DUCT		
MAX. OF DUCT PER METER IN.	STRAP	MAX. LOAD EACH HANGER/LBS.	DIAMETER / INCHES	STRAP	MAX. LOAD EACH HANGER/LBS.
P/2 = 72	1\"X 20 GA.	20	UP TO 20"	1\"X 20 GA.	20
P/2 = 96	1\"X 18 GA.	30	21" TO 36"	1\"X 18 GA.	30

- NOTE:
- NO BRACING REQUIRED IF DUCT IS SUSPENDED 12 INCHES OR LESS IN LENGTH.
 - FOR TRANSVERSE AND LONGITUDINAL BRACING FOLLOW "SMACNA" GUIDELINES FOR SEISMIC HAZARD LEVEL "A".

GOOSENECK INSTALLATION

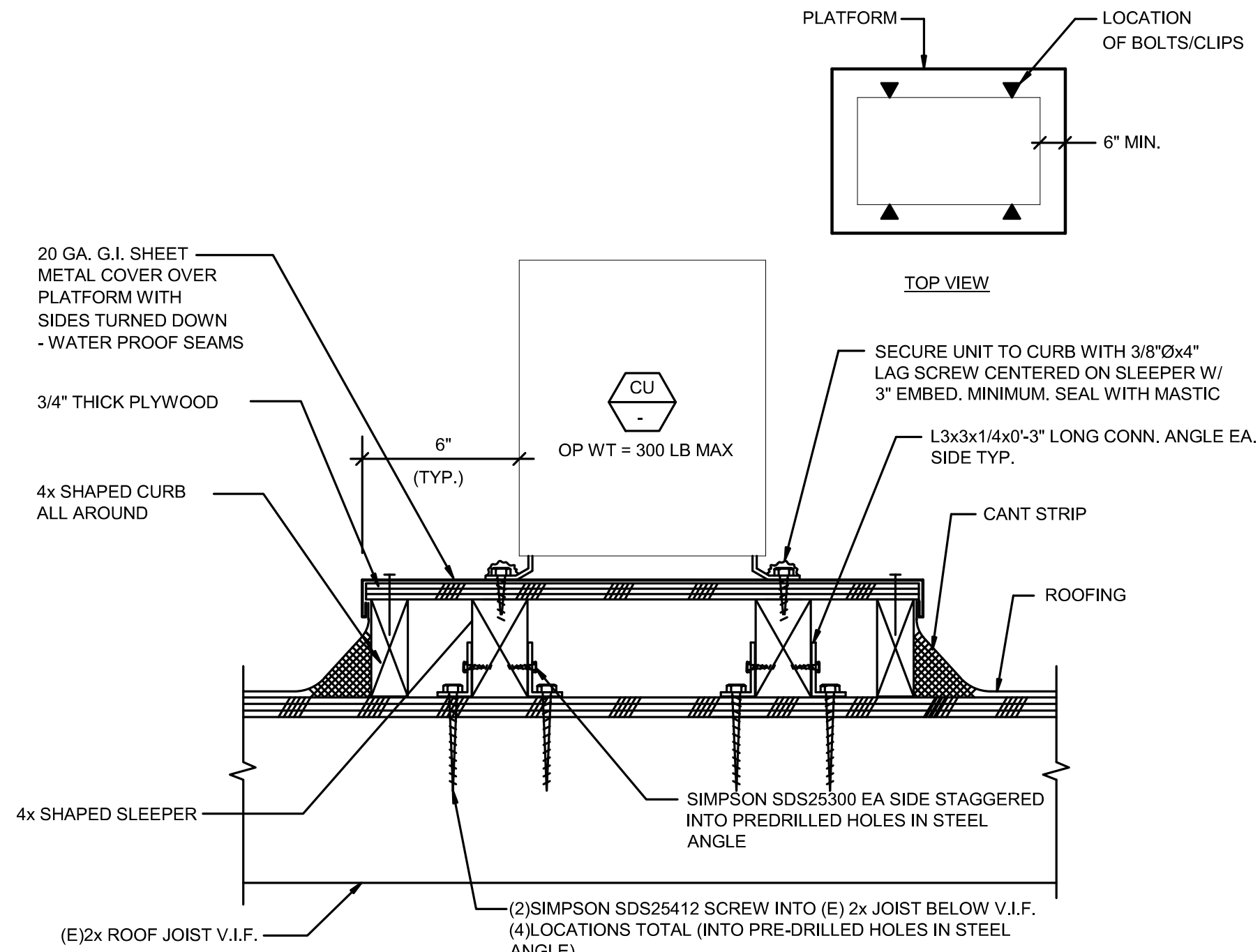
NTS 5

DUCT SUPPORT DETAIL

NTS 4

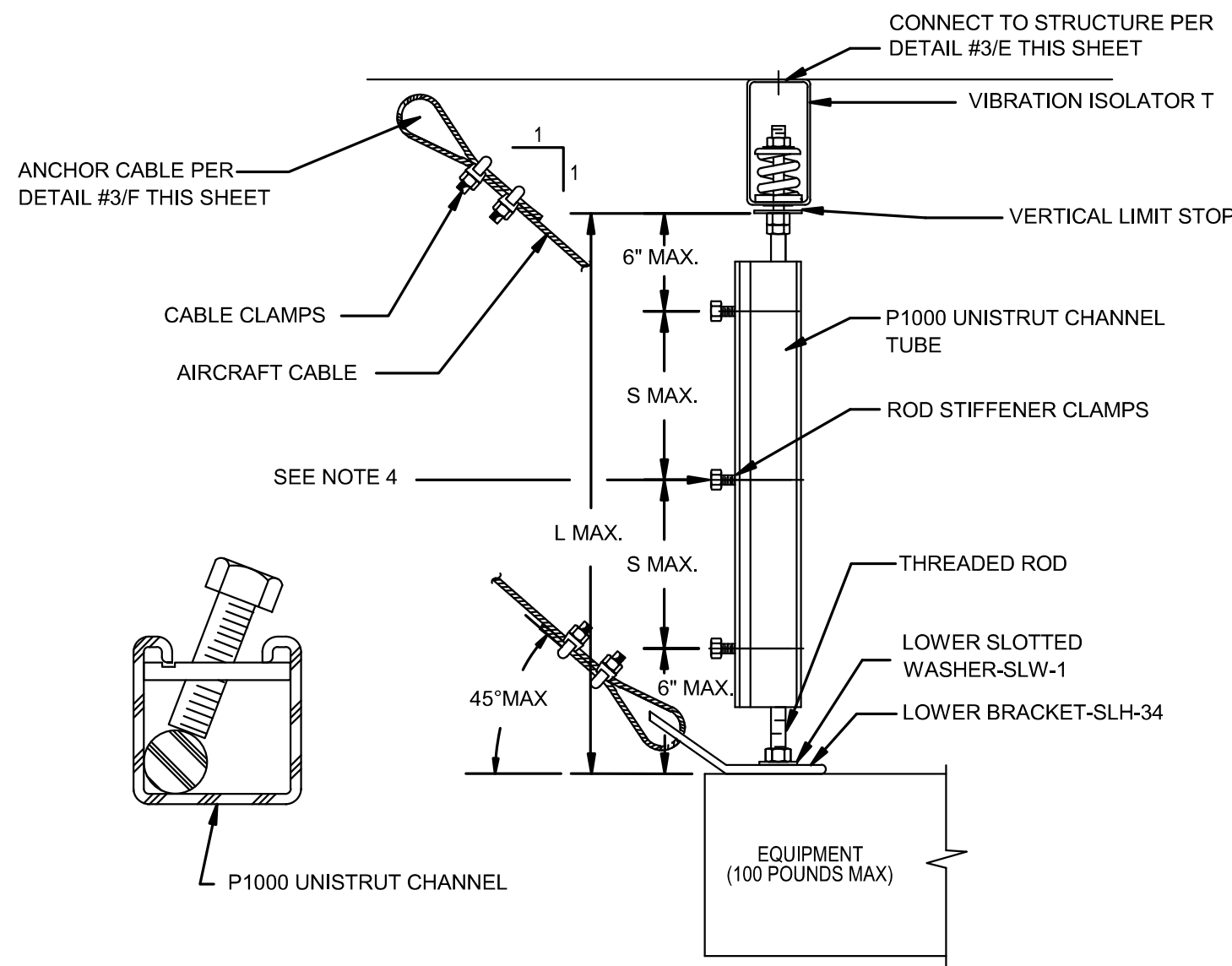
CEILING MOUNTED EQUIPMENT MOUNTING

NTS 2



CONDENSING UNIT ON ROOF

NTS 1



- NOTES:
- SEE TABLE 1 FOR MAXIMUM LENGTH OF 3/8" THRU 7/8" DIAMETER RODS WITHOUT ROD STIFFENER.
 - SEE TABLE 2 FOR MAXIMUM LENGTH OF 3/8" THRU 7/8" DIAMETER RODS WITH ROD STIFFENER.
 - SEE TABLE 3 TO DETERMINE NUMBER OF ROD STIFFENER CLIPS REQUIRED.
 - (6) ROD STIFFENER CLAMPS PROVIDED IN A KIT. IF ADDITIONAL CLIPS ARE REQUIRED, CONTACT M. W. SAUSSE' & CO., INC.

M.W. SAUSSE' SEISMIC CABLE BRACING EQUIPMENT KIT NO: 316C4-12R1-4R1	
(4) UPPER BRACKET - SLH-34	
(4) UPPER SLOTTED WASHER - SLW-3	
(4) LOWER BRACKET - SLH-34	
(4) LOWER SLOTTED WASHER - SLW-1	
(8) ROD STIFFENER CLAMPS - RS-18	
(4) CABLE - 3/16" - 10 FT.	
(24) CABLE CLAMPS - 3/16"	

TABLE 1. (L MAX. W/O ROD STIFFENER)

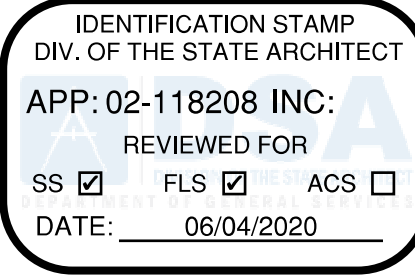
ROD DIA.	3/8"	1/2"	5/8"	3/4"	7/8"
L MAX.	18"	25"	31"	37"	43"

TABLE 2. (L MAX. W/ ROD STIFFENER)

ROD STIFFENER	12GA. X 1-5/8" X 1-5/8 STRUT CHANNEL
L MAX.	116"

TABLE 3. (S MAX. W/ ROD STIFFENER)

ROD DIA.	3/8"	1/2"	5/8"	3/4"	7/8"
S MAX.	18"	25"	31"	37"	43"



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FAX: 909.477.6916
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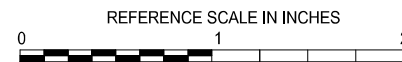


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REVISIONS

No. Date Revision / Issue

SHEET INFORMATION

Issue BID SET
Date 10/20/2020
Job Number 19000642.00
Drawn ZM
Checked JM
Approved ED

SHEET TITLE

DETAILS

SCALE

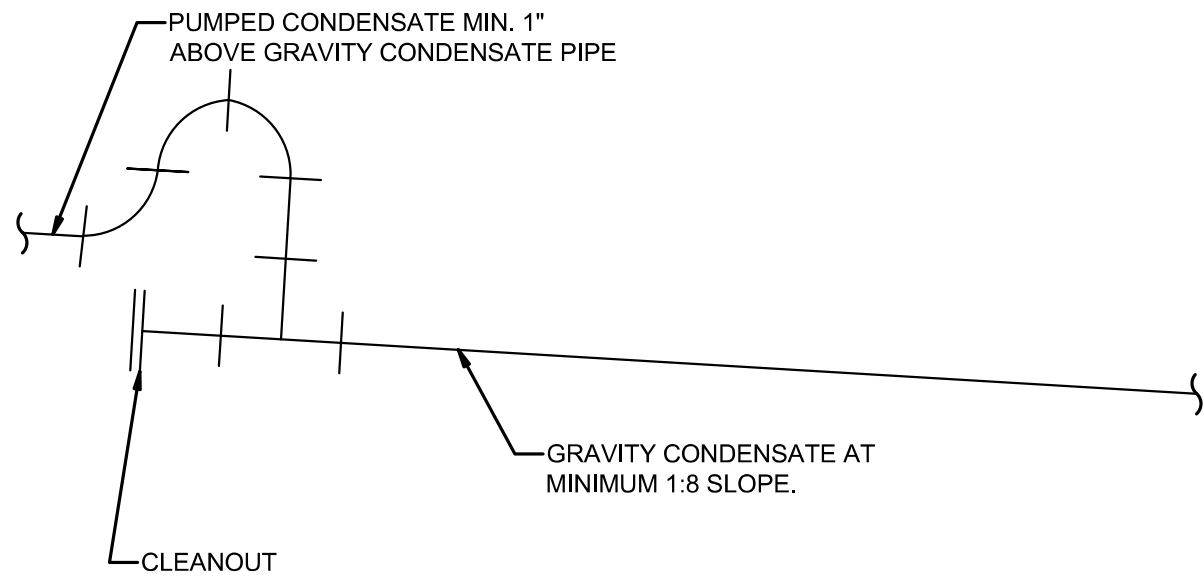
Scale:

SHEET NUMBER

M4.1

EXHIBIT B

19000642.00 6/2/2020 8:26:55 AM VINLAND KITCHEN HVAC ADDITION

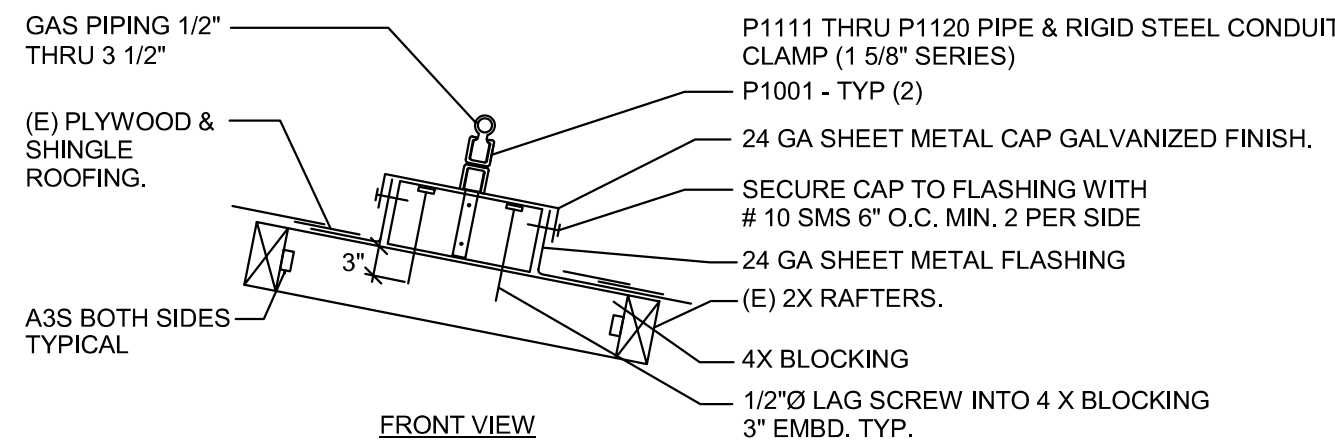


PUMPED TO GRAVITY CONDENSATE CONNECTION

NTS 7

NOTE:

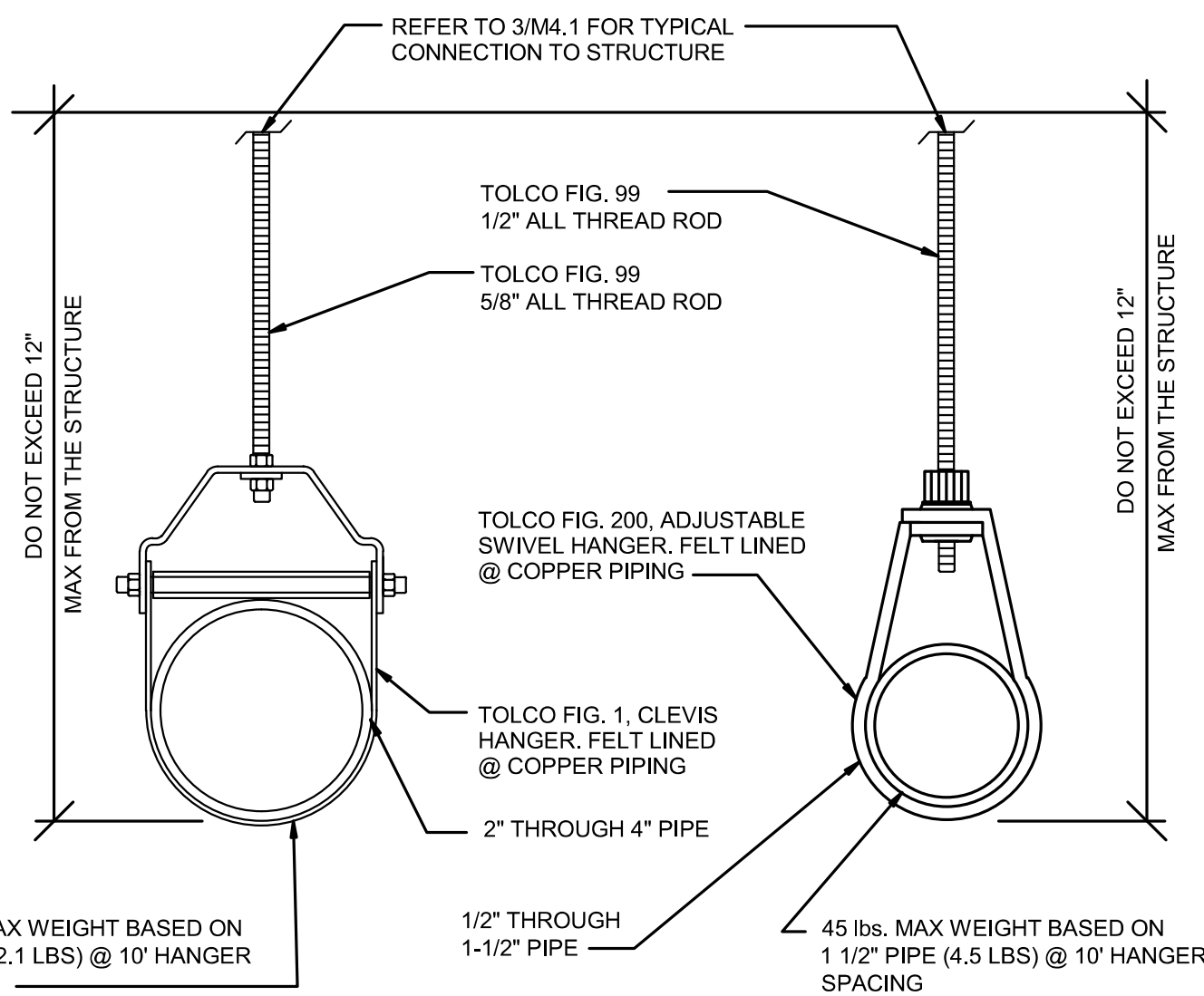
- REMOVE EXISTING ROOFING AND PLYWOOD SHEATHING AS REQUIRED TO INSTALL NEW BLOCKING BETWEEN STRUCTURE. REPAIR ROOF SHEATHING TO MATCH EXISTING AND REPAIR ROOF PER DISTRICT STANDARDS TO MATCH EXISTING.
- PROVIDE PIPE SUPPORTS PER PIPE SIZING TABLE BELOW AND AT EVERY CHANGE OF DIRECTION.



PIPE SIZING AND SELECTION TABLE	
PPP SIZE	SPACING
1 1/4" & UNDER	7'-0"
1 1/2"	9'-0"
2"	10'-0"
3"	12'-0"

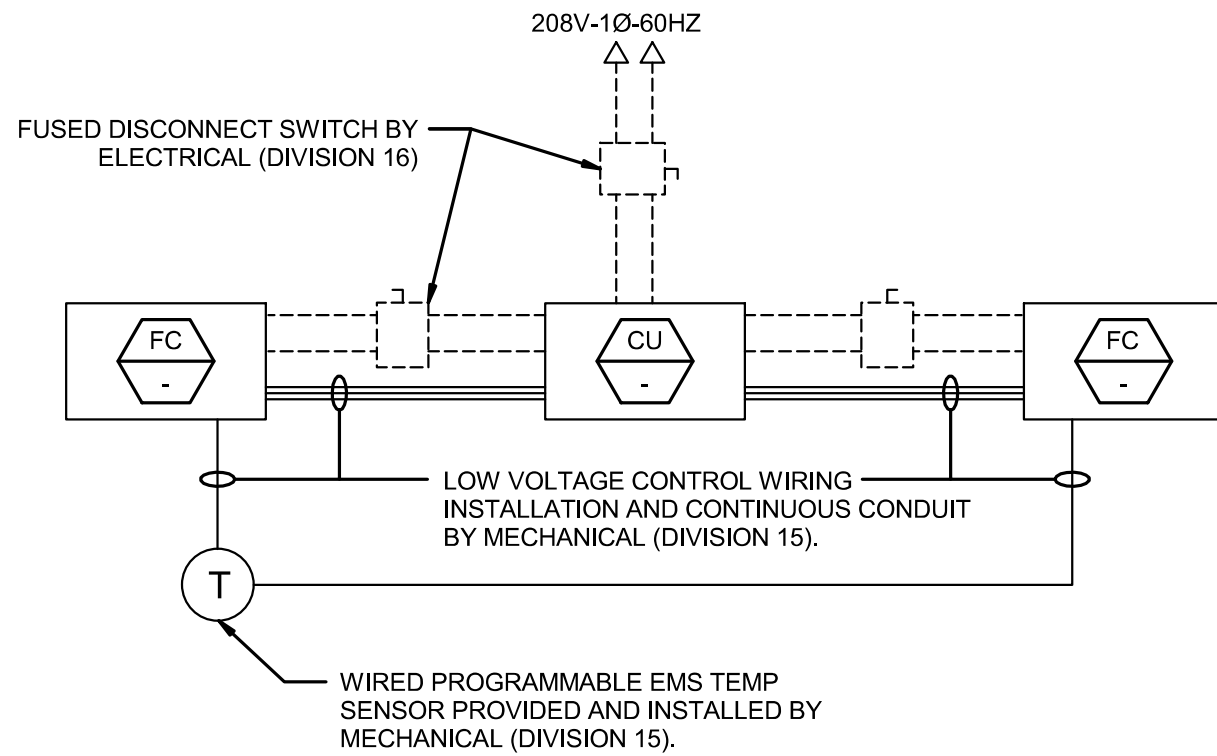
PIPE SUPPORT TO ROOF STRUCTURE DETAIL

NTS 8



PIPE HANGER

NTS 9

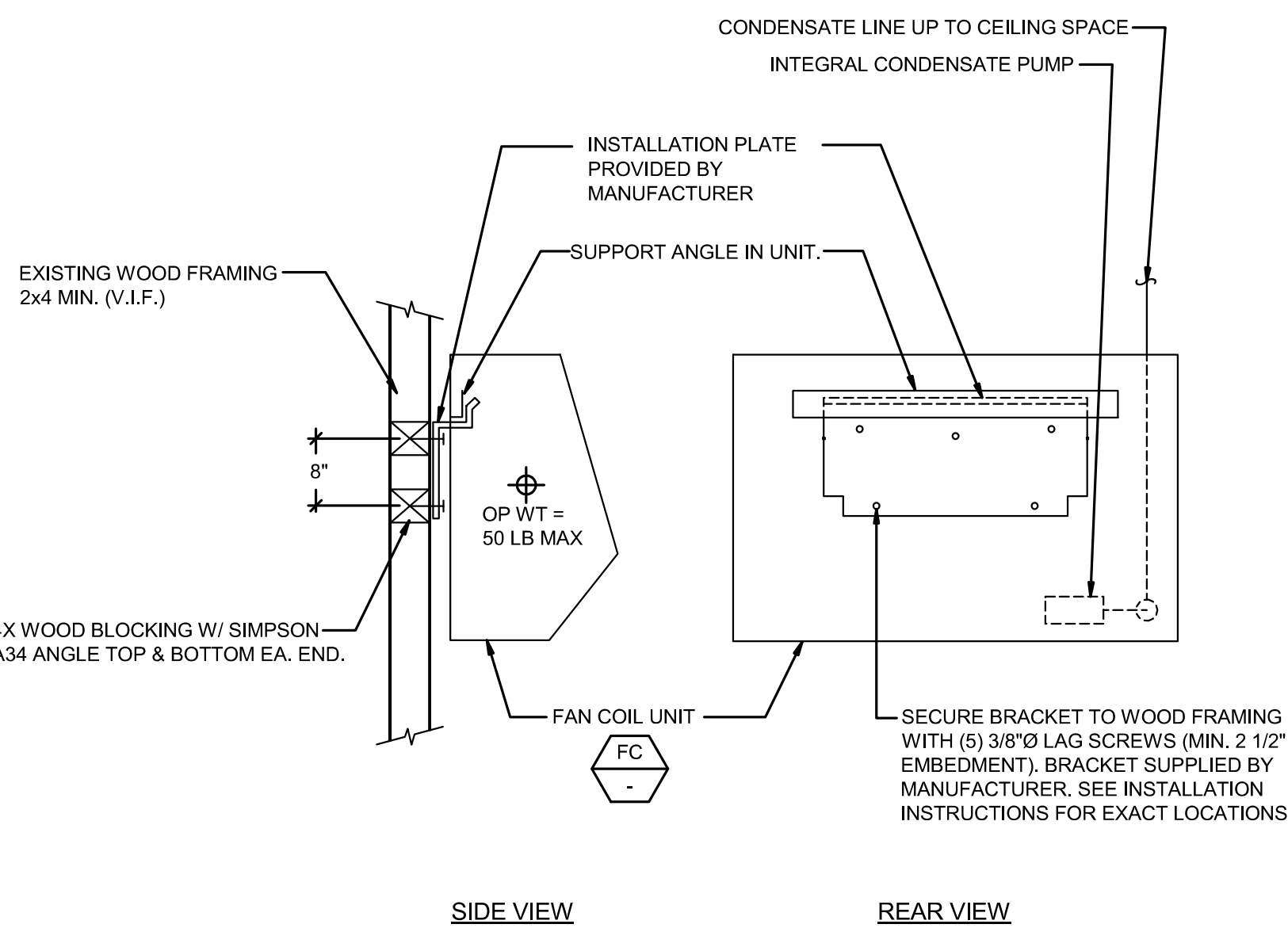


NOTES:

- FOR WIRING NOTES, REFER TO DETAIL 3 THIS SHEET

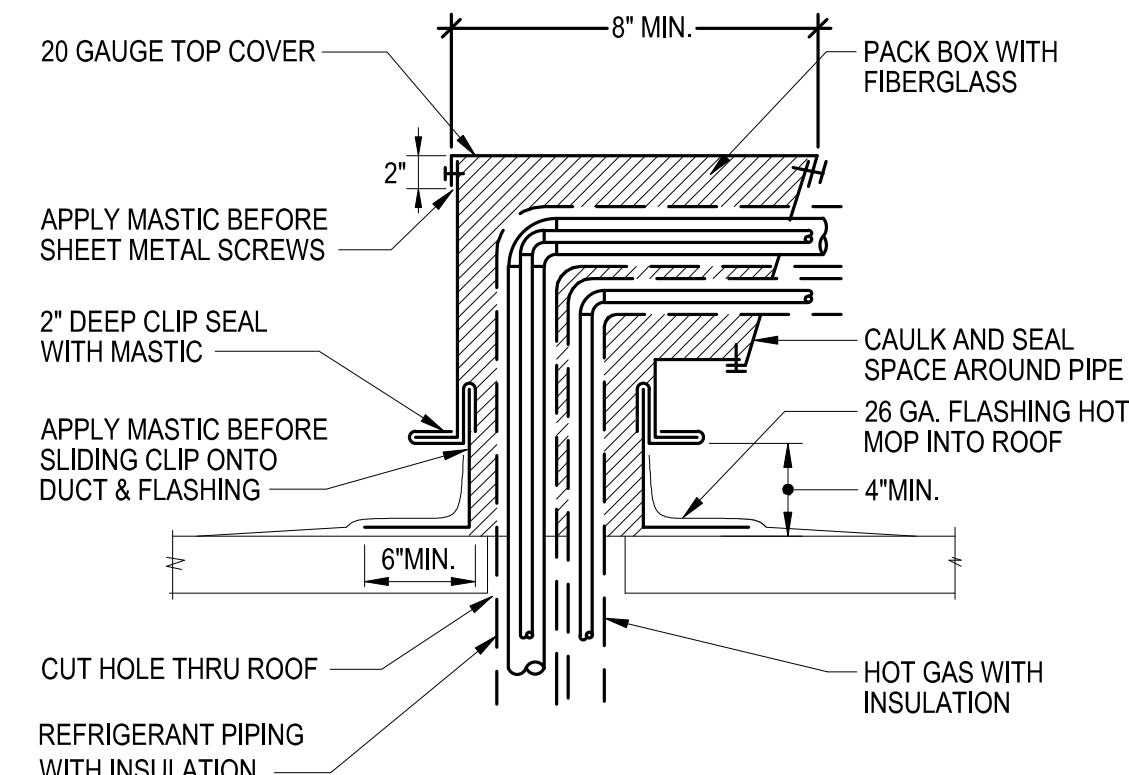
SPLIT SYSTEM WIRING DIAGRAM

NTS 4



WALL MOUNTED FAN COIL

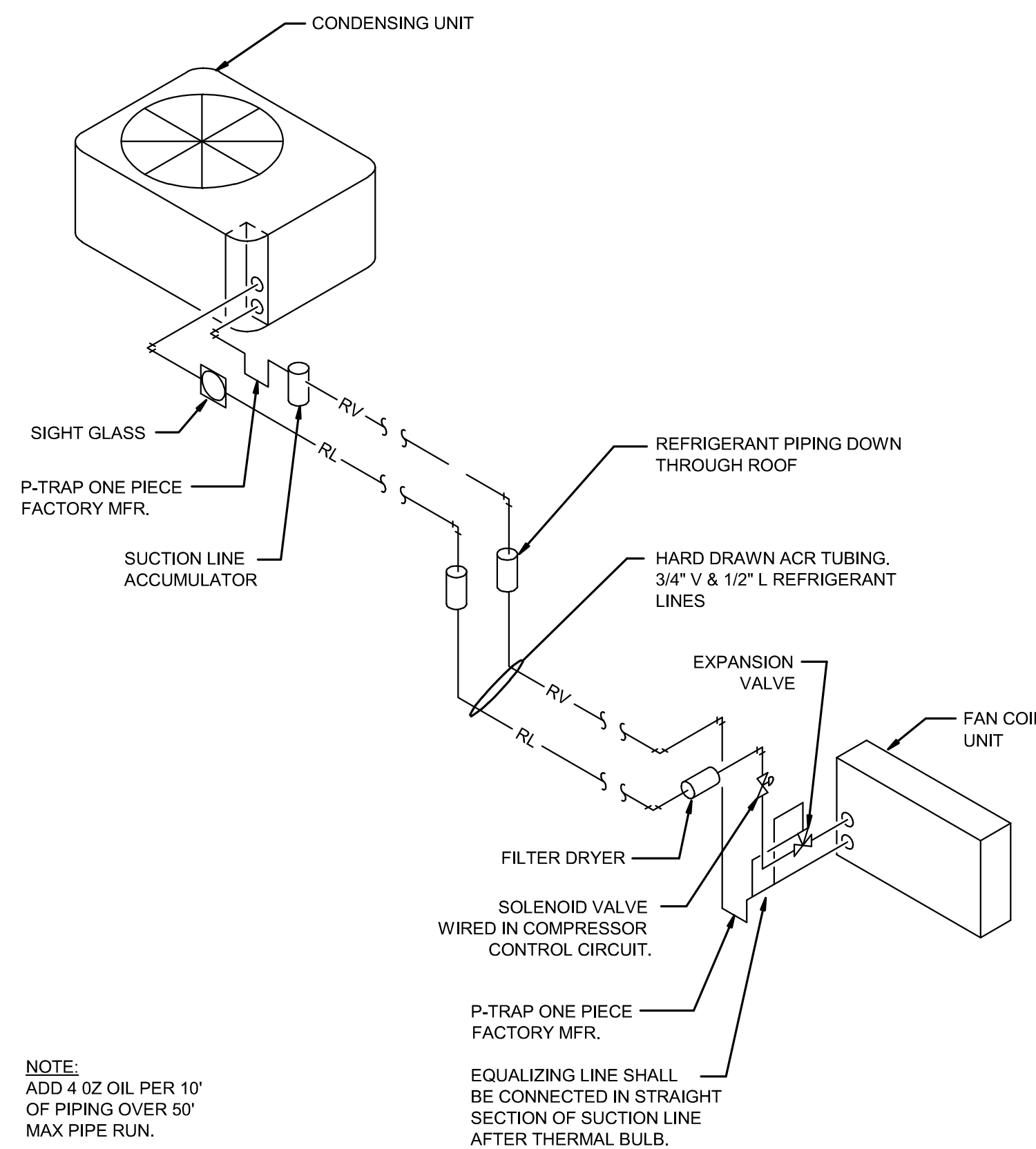
NTS 5



NOTE: 1. PAINT ALL EXPOSED SHEET METAL PARTS WITH WEATHER RESISTANT PAINT.

REFRIGERANT PIPE THRU ROOF

NTS 1



REFRIGERANT PIPING DIAGRAM

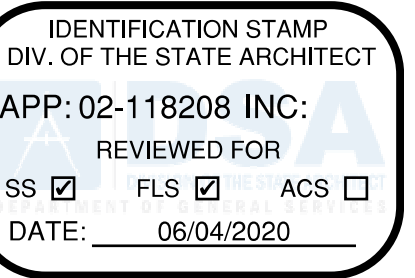
NTS 2

WIRING NOTES:

- EQUIPMENT FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR (DIVISION 16).
- EQUIPMENT FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR (DIVISION 15).
- LINE VOLTAGE WIRING AND CONDUIT FURNISHED BY ELECTRICAL CONTRACTOR.
- LOW VOLTAGE WIRING FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. LOW VOLTAGE CONDUIT FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR.
- DISC. DISCONNECT SWITCH
- C.B. CIRCUIT BREAKER
- Ⓣ THERMOSTAT FURNISHED AND INSTALLED BY DIVISION 15.

CONTROL WIRING LEGEND

NTS 3



Fresno Unified School District
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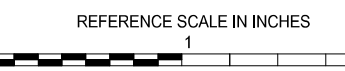


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No. Date Revision / Issue

SHEET INFORMATION

Issue BID SET
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Job Number 19000642.00
Drawn ZM
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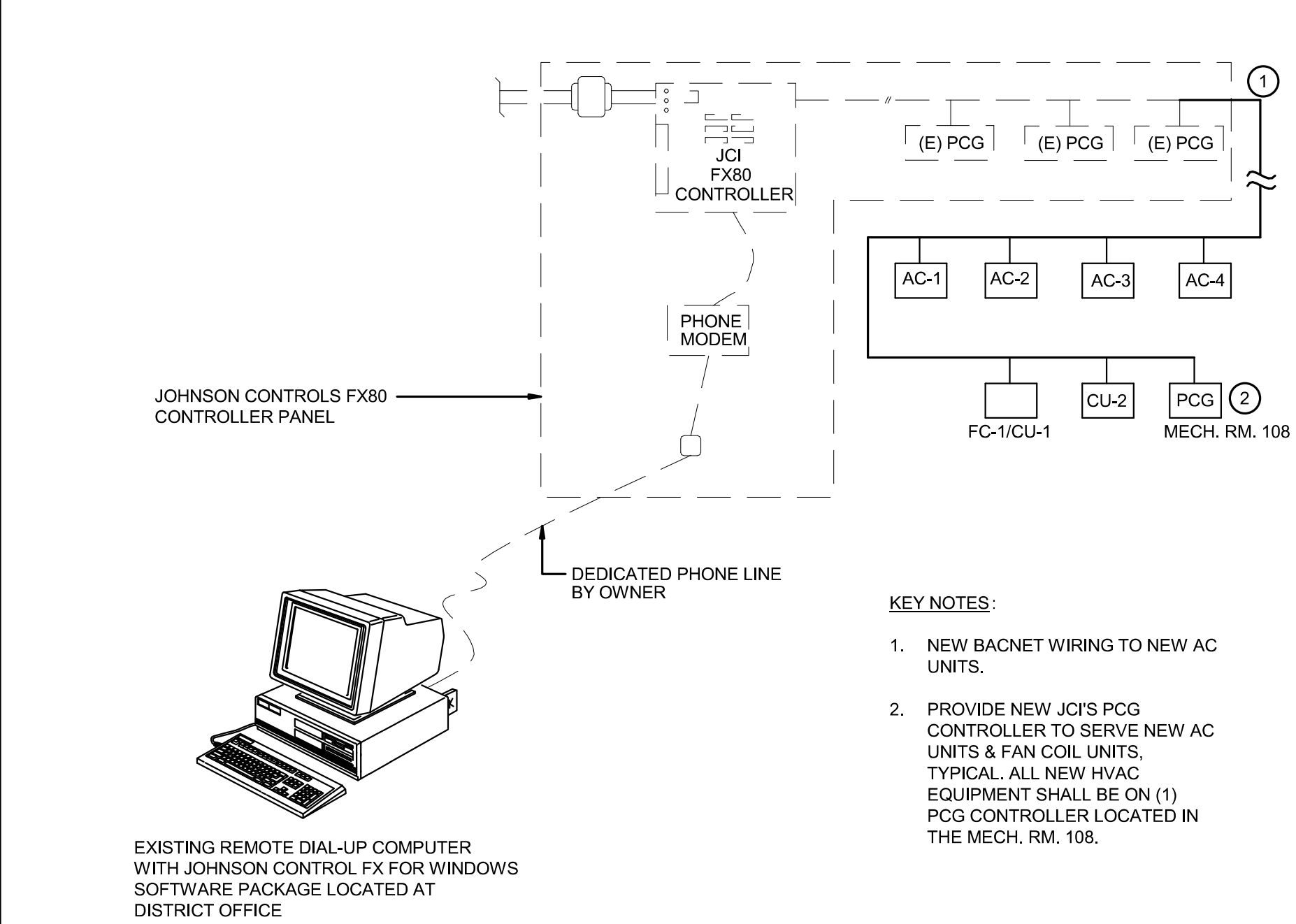
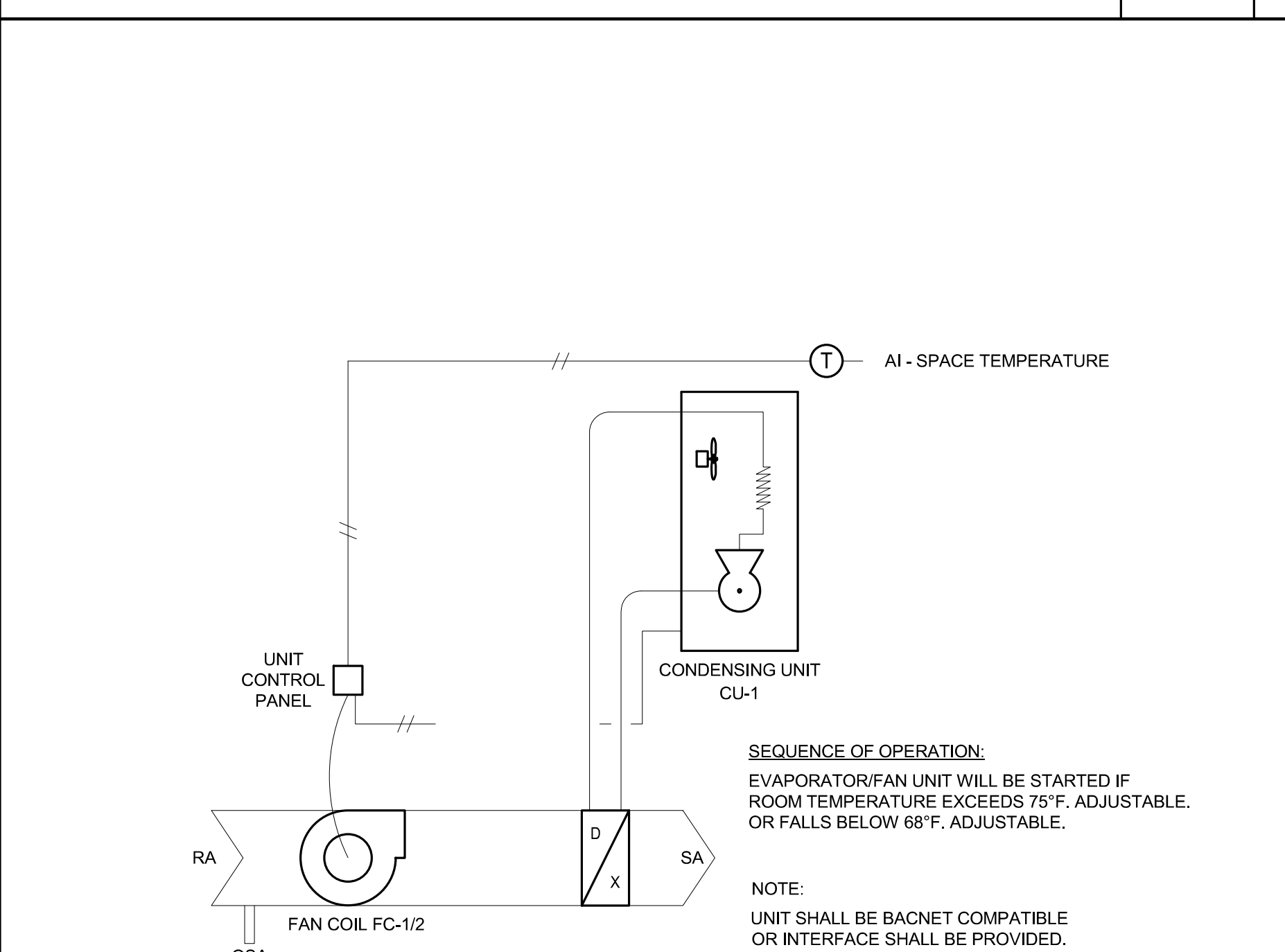
DETAILS

SCALE

SHEET NUMBER

M4.2

EXHIBIT B

						<div><p>JOHNSON CONTROLS FX80 CONTROLLER PANEL</p><p>EXISTING REMOTE DIAL-UP COMPUTER WITH JOHNSON CONTROL FX FOR WINDOWS SOFTWARE PACKAGE LOCATED AT DISTRICT OFFICE</p><p>DEDICATED PHONE LINE BY OWNER</p><p>KEY NOTES:</p><ol style="list-style-type: none">1. NEW BACNET WIRING TO NEW AC UNITS.2. PROVIDE NEW JCI'S PCG CONTROLLER TO SERVE NEW AC UNITS & FAN COIL UNITS. TYPICAL. ALL NEW HVAC EQUIPMENT SHALL BE ON (1) PCG CONTROLLER LOCATED IN THE MECH. RM. 108.</div>		
NOT USED	NTS	6	NOT USED	NTS	3	EMS SYSTEM NETWORK	NTS	1
						<div><p>UNIT CONTROL PANEL</p><p>FAN COIL FC-1/2</p><p>CONDENSING UNIT CU-1</p><p>AI - SPACE TEMPERATURE</p><p>RA</p><p>OSA</p><p>SA</p><p>D</p><p>X</p><p>SEQUENCE OF OPERATION: EVAPORATOR/FAN UNIT WILL BE STARTED IF ROOM TEMPERATURE EXCEEDS 75°F. ADJUSTABLE. OR FALLS BELOW 68°F. ADJUSTABLE.</p><p>NOTE: UNIT SHALL BE BACNET COMPATIBLE OR INTERFACE SHALL BE PROVIDED.</p><p>CONTROL NOTES:</p><ol style="list-style-type: none">1. CONTRACTOR SHALL DISCONNECT ALL EXISTING LIGHTING CONTROL CIRCUITS FROM EXISTING NETWORK AREA CONTROLLERS SCHEDULED TO BE REPLACED. CONTRACTOR SHALL RECONNECT EXISTING LIGHTING CONTROL CIRCUITS TO NEW FX80 PANELS AND DEMONSTRATE PROPER OPERATION TO DISTRICT ENERGY MANAGEMENT DEPARTMENT. FIELD VERIFY EXACT NUMBER OF CIRCUITS AND PROGRAMMING.2. CONTRACTOR SHALL DISCONNECT ALL EXISTING PHOTOCELL LIGHTING CONTROLLERS FROM EXISTING NETWORK AREA CONTROLLERS SCHEDULED TO BE REPLACED. CONTRACTOR SHALL RECONNECT ALL EXISTING PHOTOCELL LIGHTING CONTROLLERS TO NEW FX80 PANELS AND DEMONSTRATE PROPER OPERATION TO DISTRICT ENERGY MANAGEMENT DEPARTMENT. FIELD VERIFY EXACT NUMBER AND LOCATION OF EXISTING PHOTOCELLS.3. CONTRACTOR SHALL DISCONNECT ALL EXISTING OUTDOOR AIR SENSORS FROM EXISTING NETWORK AREA CONTROLLERS SCHEDULED TO BE REPLACED. CONTRACTOR SHALL RECONNECT ALL EXISTING OUTDOOR AIR SENSORS TO NEW FX80 PANELS AND DEMONSTRATE PROPER OPERATION TO DISTRICT ENERGY MANAGEMENT DEPARTMENT. FIELD VERIFY EXACT NUMBER AND LOCATION OF EXISTING OUTDOOR AIR SENSORS.4. PROVIDE TWO (2) SPARE PCX CONTROLLERS FOR DISTRICT ENERGY MANAGEMENT DEPARTMENT USE.</div>		
NOT USED	NTS	7	NOT USED	NTS	4			
						<div><p>CONTROL NOTES:</p><ol style="list-style-type: none">1. CONTRACTOR SHALL DISCONNECT ALL EXISTING LIGHTING CONTROL CIRCUITS FROM EXISTING NETWORK AREA CONTROLLERS SCHEDULED TO BE REPLACED. CONTRACTOR SHALL RECONNECT EXISTING LIGHTING CONTROL CIRCUITS TO NEW FX80 PANELS AND DEMONSTRATE PROPER OPERATION TO DISTRICT ENERGY MANAGEMENT DEPARTMENT. FIELD VERIFY EXACT NUMBER OF CIRCUITS AND PROGRAMMING.2. CONTRACTOR SHALL DISCONNECT ALL EXISTING PHOTOCELL LIGHTING CONTROLLERS FROM EXISTING NETWORK AREA CONTROLLERS SCHEDULED TO BE REPLACED. CONTRACTOR SHALL RECONNECT ALL EXISTING PHOTOCELL LIGHTING CONTROLLERS TO NEW FX80 PANELS AND DEMONSTRATE PROPER OPERATION TO DISTRICT ENERGY MANAGEMENT DEPARTMENT. FIELD VERIFY EXACT NUMBER AND LOCATION OF EXISTING PHOTOCELLS.3. CONTRACTOR SHALL DISCONNECT ALL EXISTING OUTDOOR AIR SENSORS FROM EXISTING NETWORK AREA CONTROLLERS SCHEDULED TO BE REPLACED. CONTRACTOR SHALL RECONNECT ALL EXISTING OUTDOOR AIR SENSORS TO NEW FX80 PANELS AND DEMONSTRATE PROPER OPERATION TO DISTRICT ENERGY MANAGEMENT DEPARTMENT. FIELD VERIFY EXACT NUMBER AND LOCATION OF EXISTING OUTDOOR AIR SENSORS.4. PROVIDE TWO (2) SPARE PCX CONTROLLERS FOR DISTRICT ENERGY MANAGEMENT DEPARTMENT USE.</div>		
NOT USED	NTS	8	NOT USED	NTS	5	FC-1/2 AND CU-2 CONTROL DIAGRAM	NTS	2


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APP: 02-118208 INC:

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DATE: 06/04/2020



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REGISTERED PROFESSIONAL ENGINEER
ERIC M. DeSPLINTER
38688
Exp. 12/31/21
MECHANICAL
STATE OF NEW YORK

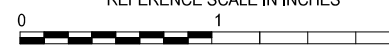


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REFERENCE SCALE IN INCHES



REVISIONS

No.	Date	Revision / Issue
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SHEET INFORMATION

Issue	BID SET
Date	10/20/2020
Job Number	19000642.00
Drawn	ZM
Checked	JM
Approved	ED

SHEET TITLE

CONTROLS

SCALE

Scale:

SHEET NUMBER

M5.1

NAME

10' - 0"

HEIGHT ABOVE PROJECT 0' - 0"

LEVEL NAME

10' - 0"

INDICATES DIRECTION OF TRUE NORTH

PLAN OR DETAIL NUMBER

PLAN OR DETAIL NAME

1

1/8" = 1'-0"

PLAN OR DETAIL SCALE

SIM

1

M101

INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS

DETAIL REFERRED TO BY SECTION CUT

SHEET DETAIL IS LOCATED ON

SIM

4

7

3

1

INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS

DETAIL REFERRED TO BY ELEVATION

SHEET DETAIL IS LOCATED ON

LINE TYPE KEY:

NEW WORK BY THIS CONTRACTOR (DARK SOLID LINE)

NEW WORK UNDERFLOOR OR UNDERGROUND BY THIS CONTRACTOR (DARK LONG DASHED LINE)

NEW WORK BY OTHERS AND/OR EXISTING TO REMAIN (LIGHT SOLID LINE)

EXISTING TO BE REMOVED BY THIS CONTRACTOR (DARK SHORT DASHED LINE)

APPLICABLE CODES

• 2019 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 1

• 2019 CALIFORNIA BUILDING CODE (CBC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 2 (2018 INTERNATIONAL BUILDING CODE (IBC) W/CALIFORNIA AMENDMENTS)

• 2019 CALIFORNIA ELECTRICAL CODE (CEC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 3 (2017 NATIONAL ELECTRICAL CODE (NEC) W/CALIFORNIA AMENDMENTS)

• 2019 CALIFORNIA MECHANICAL CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 4 (2018 UNIFORM MECHANICAL CODE (UMC) W/CALIFORNIA AMENDMENTS)

• 2019 CALIFORNIA PLUMBING CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 5 (2018 UNIFORM PLUMBING CODE (UPC) W/CALIFORNIA AMENDMENTS)

• 2019 CALIFORNIA ENERGY EFFICIENCY STANDARDS CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 6

• 2019 CALIFORNIA FIRE CODE (CFC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 9 (2018 INTERNATIONAL FIRE CODE (IFC) W/CALIFORNIA AMENDMENTS)

• 2019 CALIFORNIA REFERENCED STANDARDS CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 12

• AMERICANS WITH DISABILITIES ACT (ADA) TITLE II - ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES (ADAAG) 1990 STATE FIRE MARSHAL REGULATIONS AND AMENDMENTS TO-DATE

• CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, CALIFORNIA STATE ACCESSIBILITY STANDARDS CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 19

PARTIAL LIST OF APPLICABLE STANDARDS:

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED) 2016 EDITION

NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED) 2016 EDITION

NFPA 17 - STANDARD FOR THE INSTALLATION OF DRY CHEMICAL EXTINGUISHING SYSTEMS 2017 EDITION

NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS 2017 EDITION

NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION 2016 EDITION

NFPA 22 - STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION 2013 EDITION

NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED) 2016 EDITION

NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED) 2016 EDITION

NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES 2016 EDITION

NFPA 92 - STANDARD FOR SMOKE CONTROL SYSTEMS 2018 EDITION

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.

ELECTRICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, LIGHTING, POWER, AND SYSTEMS.

1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.

2. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING. EACH CONTRACTOR SHALL CUT AND PATCH ROOFS, WALLS, AND FLOORS ASSOCIATED WITH HIS/HER WORK.

3. THE **GENERAL CONTRACTOR** IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE **GENERAL CONTRACTOR** OF AFFECTED AREAS PRIOR TO BIDDING.

4. WHERE EXISTING ELECTRICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, CONDUIT, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING ELECTRICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.

ELECTRICAL INSTALLATION NOTES:

1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAIL ON THIS PAGE FOR ADDITIONAL INFORMATION.

2. CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE.

3. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS, REFER TO [27 05 03 AND 28 05 03] [DIVISION 7] [26 05 03] FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.

4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.

5. CONTRACTOR SHALL REMOVE AND REINSTALL ALL CEILING TILES AS REQUIRED FOR THE EXECUTION OF ELECTRICAL WORK. CONTRACTOR SHALL REPLACE CEILING TILES WITH IDENTICAL MATERIAL WHERE DAMAGED BY THIS CONTRACTOR.

6. ELECTRICAL IDENTIFICATION. REFER TO SPECIFICATION SECTION **16195** FOR COLOR/LABEL REQUIREMENTS FOR CONDUIT, BOX, CABLE/WIRE, AND EQUIPMENT.

ELECTRICAL SYMBOL LIST	
SYMBOL:	DESCRIPTION:
	GFI DUPLEX RECEPTACLE, 20A, 115V
	FUSED DISCONNECT

ELECTRICAL ABBREVIATION KEY	
ABBR:	DESCRIPTION:
AFF	ABOVE FINISHED FLOOR
C	CONDUIT
GFI	GROUND FAULT INTERRUPTER
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
SV	SOLENOID VALVE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
WP	WEATHERPROOF

ELECTRICAL SHEET INDEX

E0.1 GENERAL NOTES, LEGEND, ABBREVIATIONS AND DRAWING LIST

E1.1 OVERALL SITE PLAN

E2.1 DEMOLITION POWER PLAN

E2.2 DEMOLITION ROOF PLAN

E3.1 REMODEL POWER PLAN

E3.2 REMODEL ROOF PLAN

E4.1 DETAILS

Total: 7

20" MAX.

48" MAX.

INSTALL ABOVE COUNTER DEVICE AT 44" ABOVE FINISHED FLOOR.

20"-25" MAX.

44" MAX.

INSTALL ABOVE COUNTER DEVICE AT 40" ABOVE FINISHED FLOOR.

15" MIN.

48" MAX.

INSTALL DEVICE AT 18" ABOVE FINISHED FLOOR.

10" MAX.

48" MAX.

INSTALL DEVICE AT 44" ABOVE FINISHED FLOOR.

10"-24" MAX.

48" MAX.

INSTALL DEVICE AT 42" ABOVE FINISHED FLOOR.

ADA GUIDELINES - FRONT ACCESS

ADA GUIDELINES - SIDE ACCESS

ADA STANDARDS FOR ACCESSIBLE DESIGN

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APP: 02-118208 INC:

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DATE: 06/04/2020

Fresno Unified School District

VINLAND KITCHEN HVAC ADDITION

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REGISTERED PROFESSIONAL ENGINEER

NESTOR C. IGUAO

Lic. E16834

Exp. 6-30-2021

Electrical

CONSULTANT

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REVISIONS			
No.	Date	Revision / Issue	

SHEET INFORMATION

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10/20/2020

Date

10/20/2020

Job Number

19000642.00

Drawn

Author

Checked

Checker

Approved

Approver

SHEET TITLE

GENERAL NOTES, LEGEND, ABBREVIATIONS AND DRAWING LIST

SCALE

As indicated

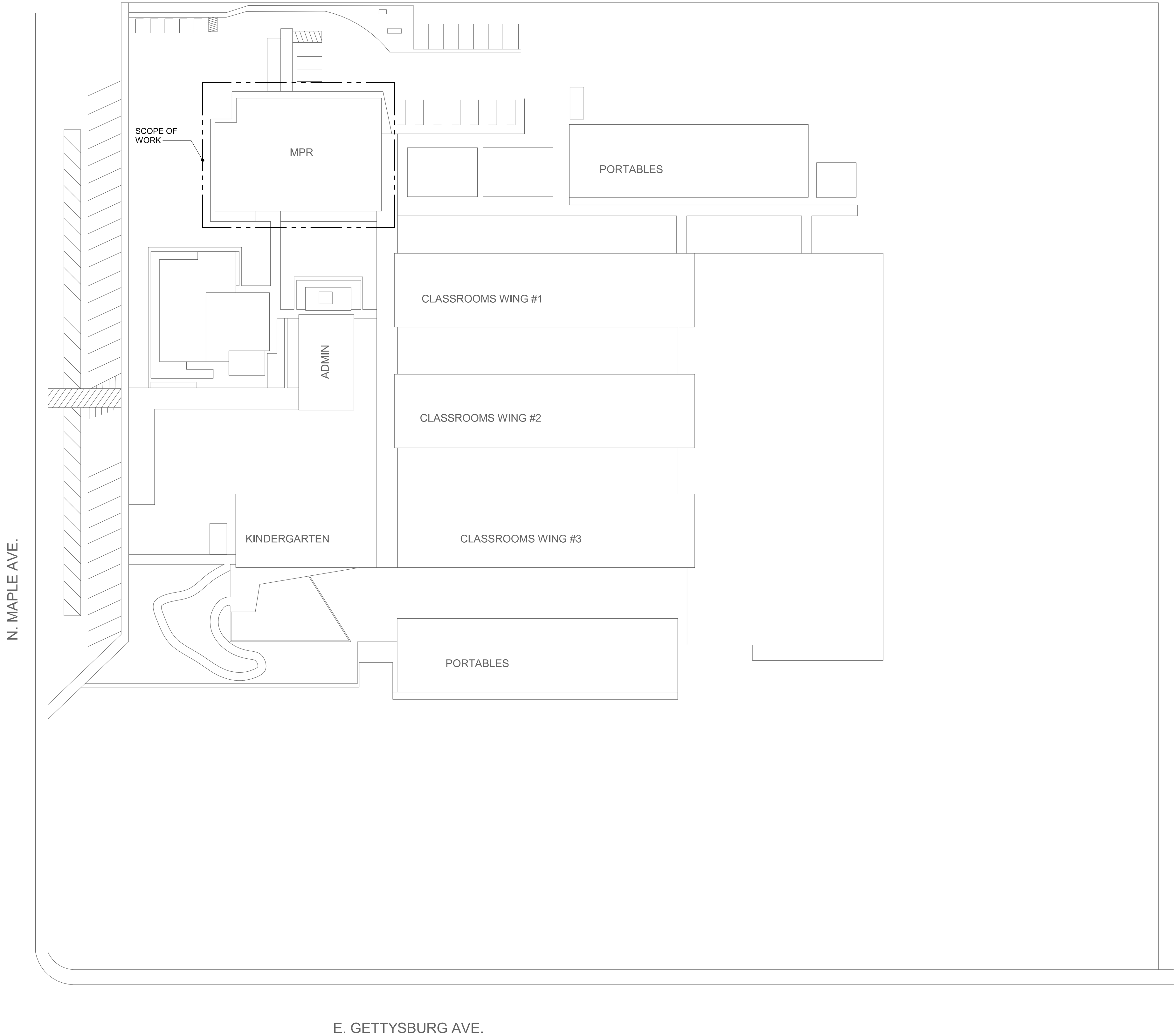
SHEET NUMBER

E0.1

Bid No. 21-43, Viking and Vinland Elementary schools and Cooper Middle School Kitchen HVAC Additions

EXHIBIT B

19000642.00 6/2/2020 8:32:08 AM VINLAND KITCHEN HVAC ADDITION



1

ELECTRICAL OVERALL SITE PLAN

1" = 30'-0"

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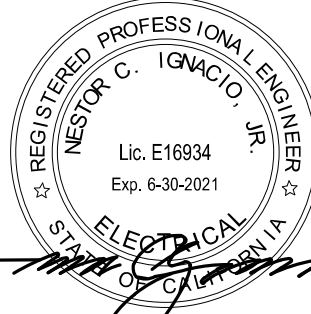


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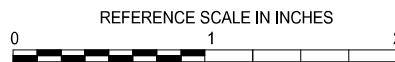
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REVISIONS

No.	Date	Revision / Issue
-----	------	------------------

SHEET INFORMATION

Issue	BID SET
Date	10/20/2020
Job Number	19000642.00
Drawn	Author
Checked	Checker
Approved	Approver

SHEET TITLE

OVERALL SITE PLAN

SCALE

Scale: 1" = 30'-0"

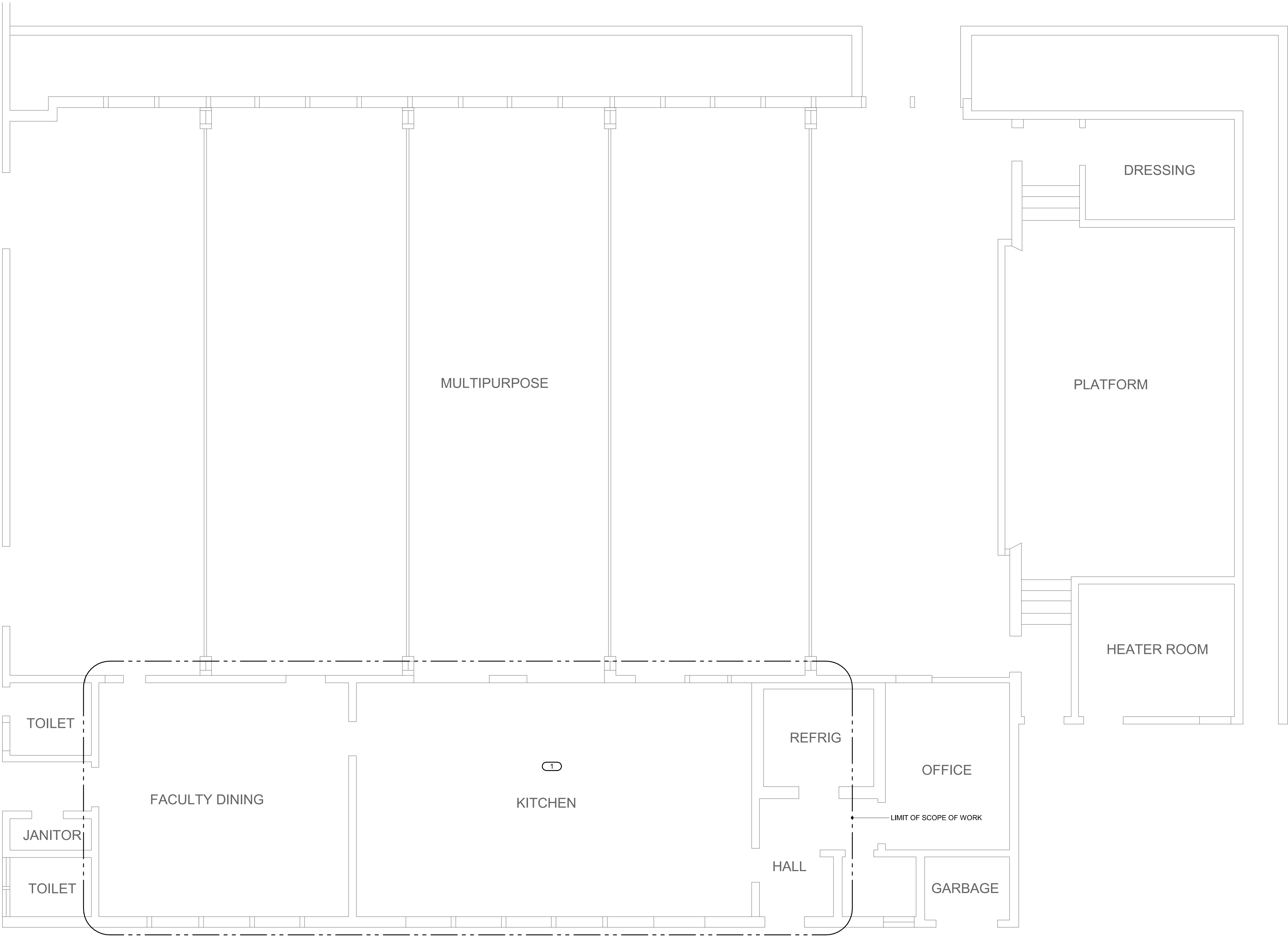
SHEET NUMBER

E1.1

19000642.00 6/2/2020 8:32:11 AM VINLAND KITCHEN HVAC ADDITION

KEYNOTES: 1

1. PROTECT EXISTING CEILING LIGHTING FIXTURE AND DEVICES DURING CONSTRUCTION.



1

KITCHEN DEMOLITION POWER PLAN

1/4" = 1'-0"

IDENTIFICATION STAMP
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APP: 02-118208 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☐
DATE: 06/04/2020

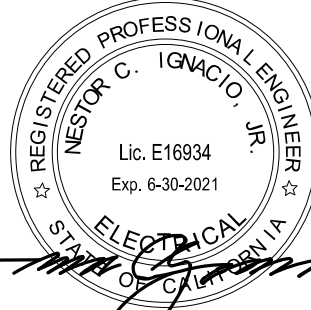


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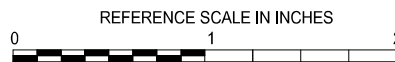
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No.	Date	Revision / Issue
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SHEET INFORMATION

Issue	BID SET
Date	10/20/2020
Job Number	19000642.00
Drawn	Author
Checked	Checker
Approved	Approver

SHEET TITLE

DEMOLITION POWER PLAN

SCALE

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

SHEET NUMBER

E2.1

19000642.00 6/2/2020 8:32:14 AM VINLAND KITCHEN HVAC ADDITION



1

ELECTRICAL ROOF DEMOLITION PLAN

1/4" = 1'-0"

KEYNOTES: #

1. SWAMP COOLER TO BE REMOVED BY MECHANICAL. CIRCUIT TRACE AND REMOVE WIRES. REMOVE CONDUIT UP TO PANEL AND PATCH ROOF OPENINGS.

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DATE: 06/04/2020



VINLAND KITCHEN
HVAC ADDITION

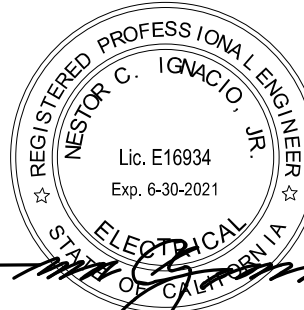
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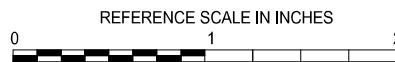
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REVISIONS

No.	Date	Revision / Issue
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SHEET INFORMATION

Issue	BID SET
Date	10/20/2020
Job Number	19000642.00
Drawn	Author
Checked	Checker
Approved	Approver

SHEET TITLE

DEMOLITION ROOF PLAN

SCALE

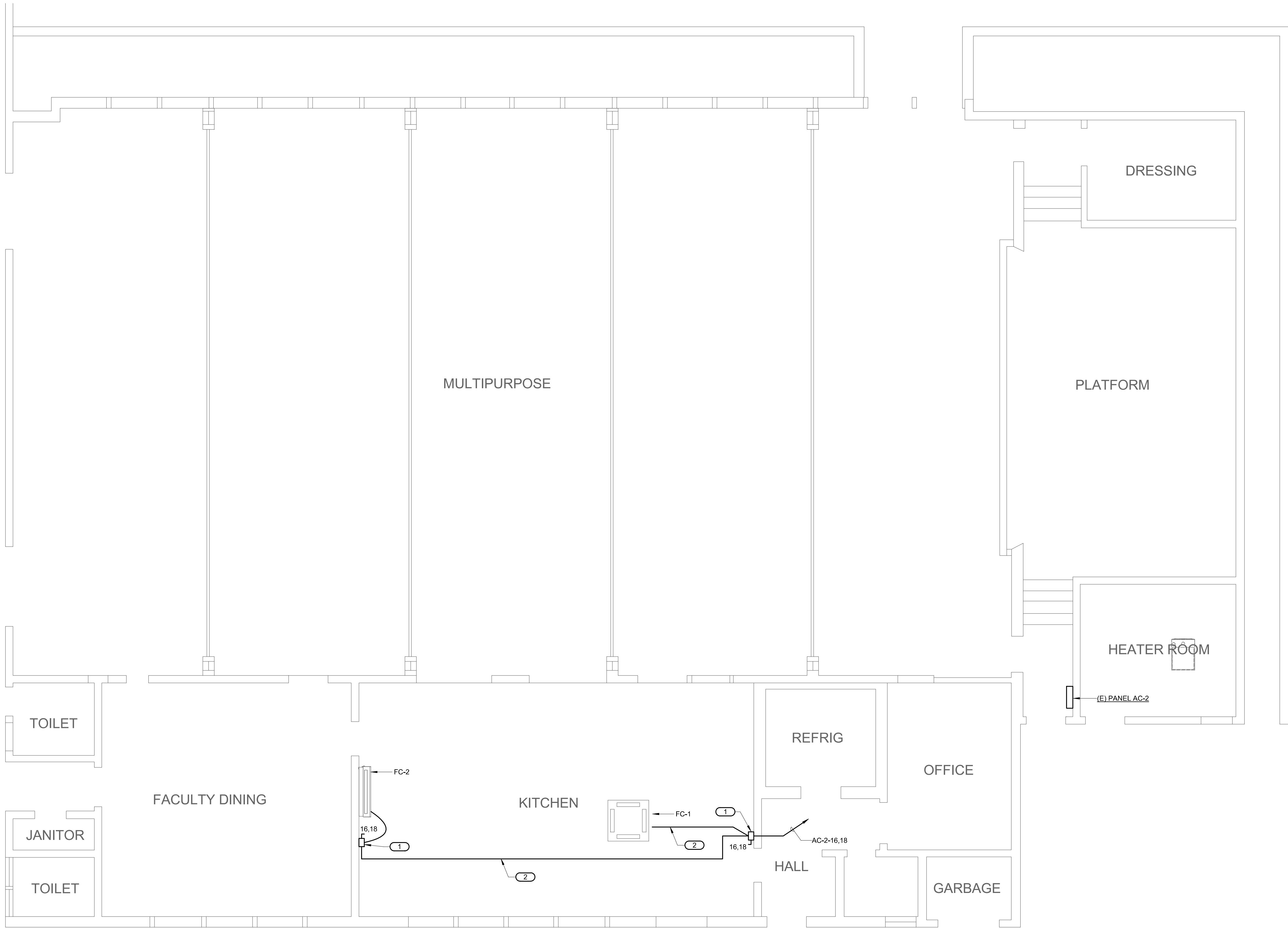
Scale: 1/4" = 1'-0"

SHEET NUMBER

E2.2

EXHIBIT B

19000642.00 6/2/2020 8:32:17 AM VINLAND KITCHEN HVAC ADDITION



- KEYNOTES:**
1. MOUNT FUSED DISCONNECT ON WALL AT 84".
 2. RUN DEVICES ON CEILING.

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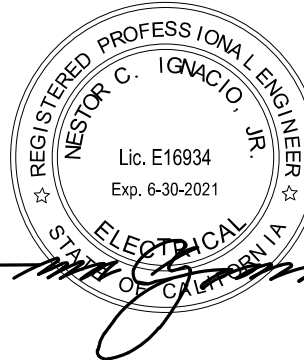


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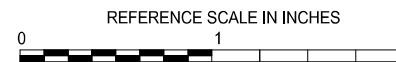
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Issue	BID SET
Date	10/20/2020
Job Number	19000642.00
Drawn	Author
Checked	Checker
Approved	Approver

SHEET TITLE

REMODEL POWER PLAN

SCALE

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

SHEET NUMBER

E3.1

EXHIBIT B



1

KITCHEN POWER PLAN

1/4" = 1'-0"

19000642.00 6/2/2020 8:32:20 AM VINLAND KITCHEN HVAC ADDITION

KEYNOTES: #
1. PROVIDE #10 AWG & #10 GROUND.
2. MOUNT ON UNIT.

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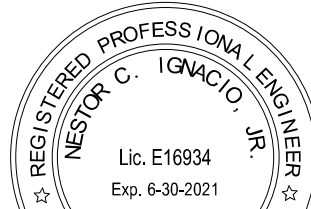


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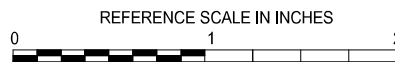
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Issue	BID SET
Date	10/20/2020
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Checked	Checker
Approved	Approver

SHEET TITLE

REMODEL ROOF PLAN

SCALE

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

SHEET NUMBER

E3.2

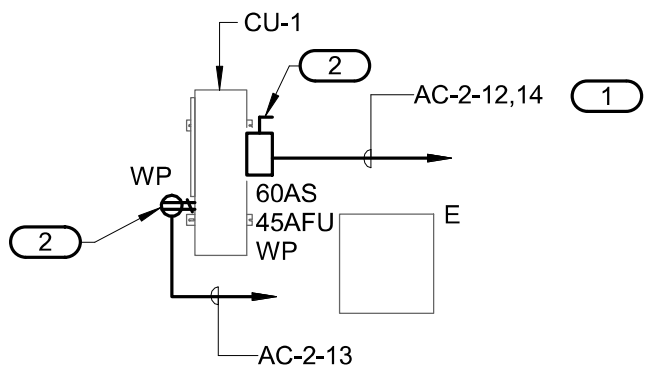
EXHIBIT B



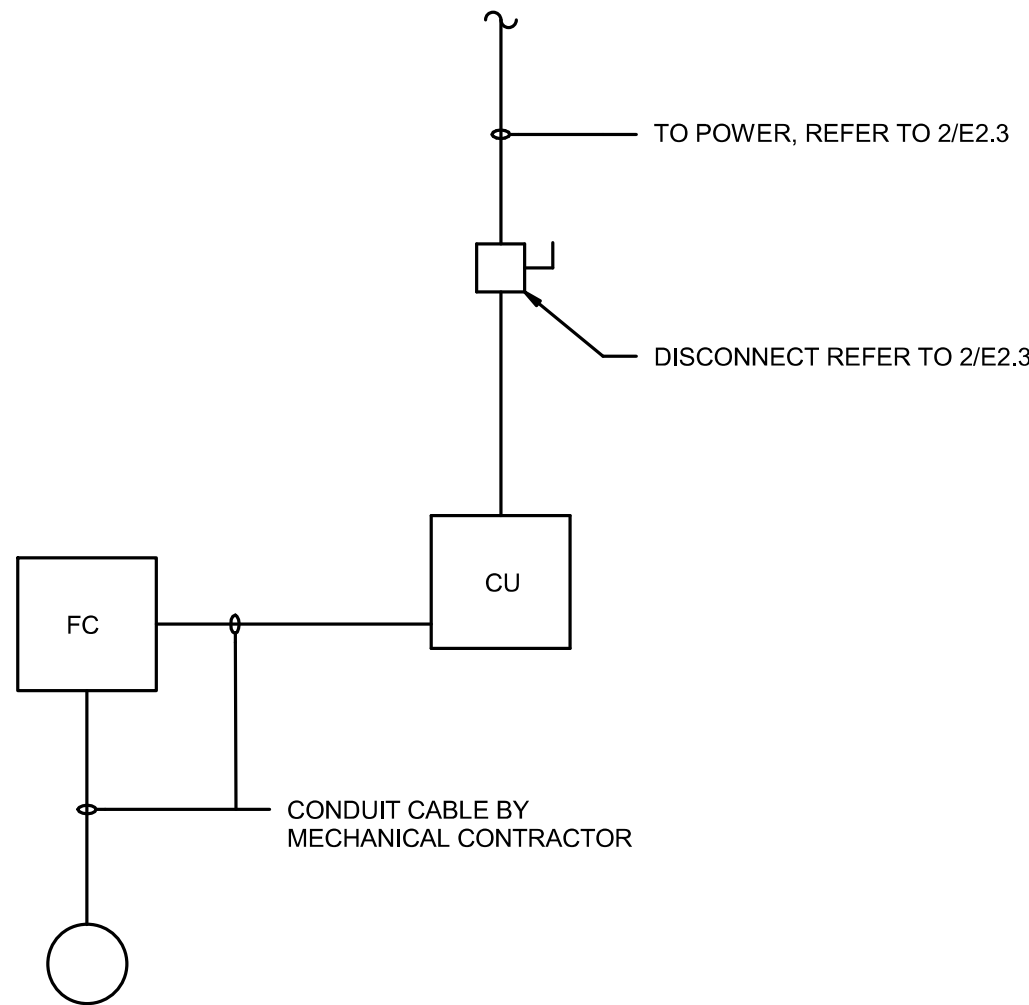
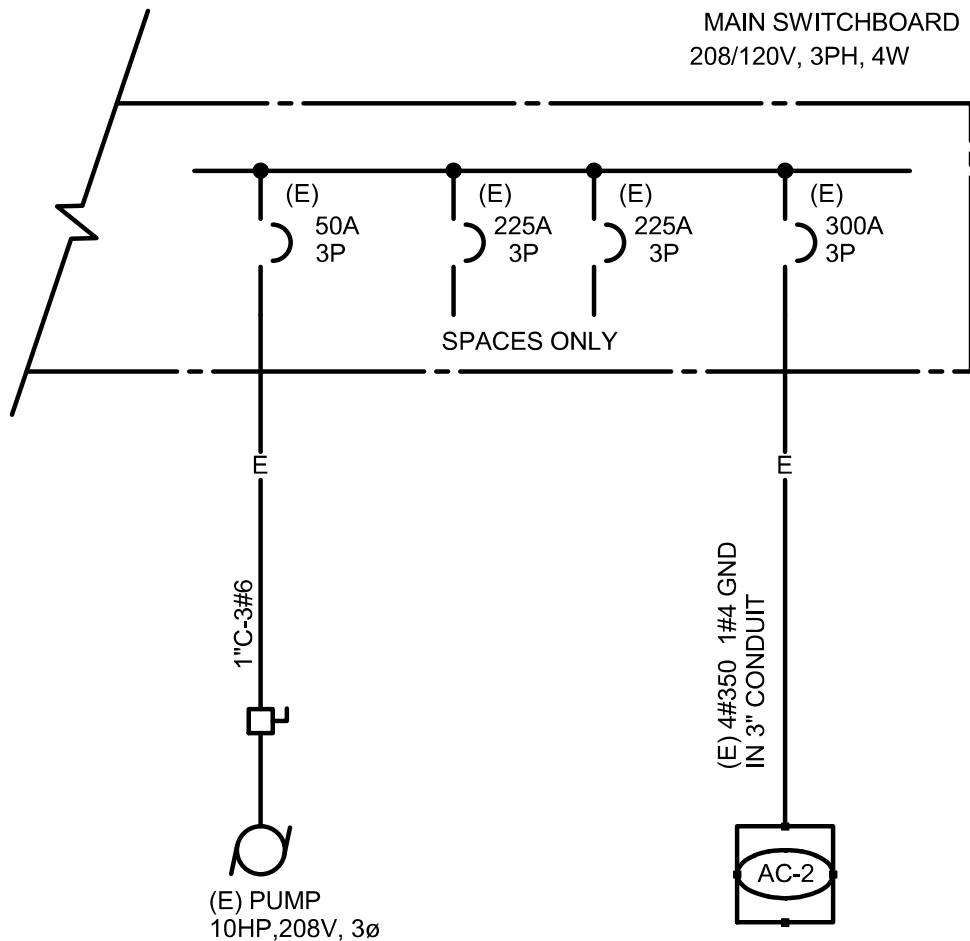
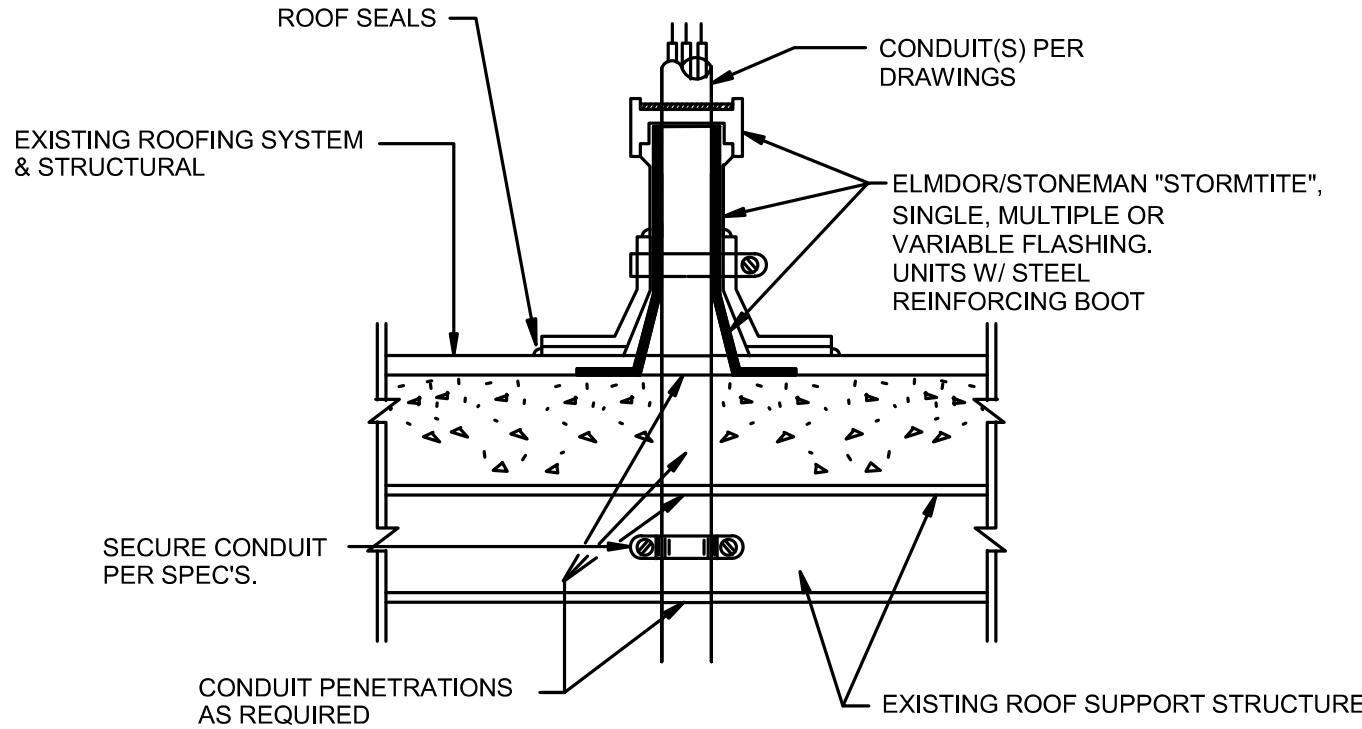
1

1/4" = 1'-0"

ELECTRICAL KITCHEN ROOF PLAN



19000642.00 6/2/2020 8:32:23 AM VINLAND KITCHEN HVAC ADDITION



CONDUIT ROOF PENETRATION DETAIL

NTS

4

PARTIAL SINGLE LINE DIAGRAM

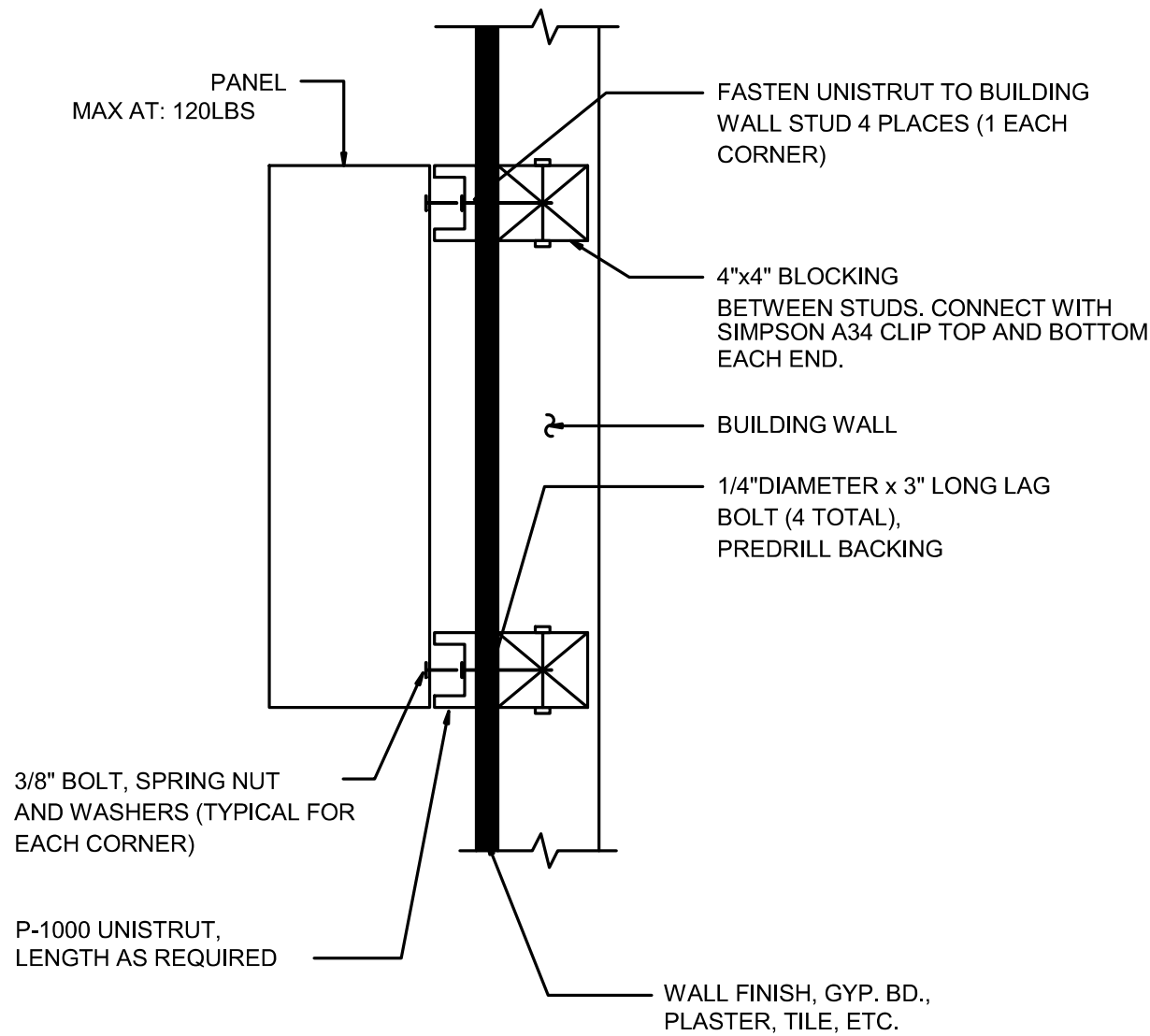
NTS

2

FAN-COIL/CONDENSING UNIT DIAGRAM

NTS

1



SURFACE MOUNTED PANEL/CABINET WOOD FRAMING

NTS

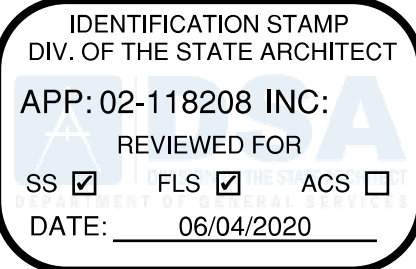
5

Branch Panel: AC-2													
Location:				Volts: 120/208 Wye				A.I.C. Rating: 42,000					
Supply From:				Phases: 3				Mains Type: MCB					
Mounting: SURFACE				Wires: 4				Mains Rating: 300 A					
Enclosure: BOLT-ON								MCB Rating: 400 A					
Notes:													
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	HC-3 (E)	150 A	3	14000 VA	3000 VA					3	50 A	EXHAUST FAN FOR HC-3 (E)	2
3	--	--	--			14000 VA	3000 VA			--	--	--	4
5	--	--	--					14000 VA	3000 VA	--	--	--	6
7	CU-1 (E)	20 A	2	800 VA	200 VA					1	20 A	SUCT DAMPER (E)	8
9	--	--	--			800 VA	200 VA			1	20 A	CONDENSING PUMP (E)	10
11	WP RECEPTACLE(E)	20 A	1					800 VA	3744 VA	2	45 A	CU-1	12
13	Roof Receptacles	20 A	1	180 VA	3744 VA					--	--	--	14
15	SPACE	--	--			0 VA	161 VA			2	15 A	FC-1 AND FC-2	16
17	SPACE	--	--					0 VA	161 VA	--	--	--	18
19	SPACE	--	--	0 VA	0 VA					--	--	SPACE	20
21	SPACE	--	--			0 VA	0 VA			--	--	SPACE	22
23	SPACE	--	--					0 VA	0 VA	--	--	SPACE	24
Total Load:				21924 VA		18161 VA		21705 VA					
Total Amps:				187.2 A		151.3 A		185.4 A					
Legend:													
Load Classification				Connected Load		Demand Factor		Estimated Demand		Panel Totals			
Power				7810 VA		100.00%		7810 VA					
Receptacles				180 VA		100.00%		180 VA					
										Total Conn. Load: 61790 VA			
										Total Est. Demand: 51030 VA			
										Total Conn. Current: 171.5 A			
										Total Est. Demand Current: 141.6 A			
Notes:													
1 PROVIDE MATCHING BREAKER AND UPDATE PANEL DIRECTORY.													

EXISTING PANEL SCHEDULE

NTS

3



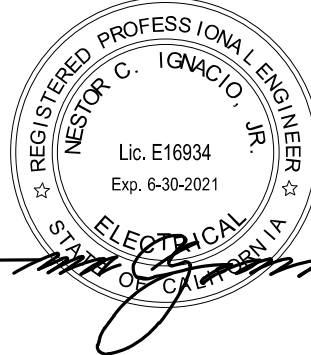
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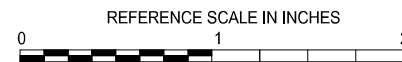
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REVISIONS

No. Date Revision / Issue

SHEET INFORMATION

Issue BID SET
Date 10/20/2020
Job Number 19000642.00
Drawn Author
Checked Checker
Approved Approver

SHEET TITLE

DETAILS

SCALE

Scale:

SHEET NUMBER


E4.1

EXHIBIT B

APPLICATION FOR SUBMITTAL OF POST-APPROVAL DOCUMENT

This application is for submittal of documents, after the initial approval of the project (post-approval documents), that require Division of the State Architect (DSA) review and approval. This form shall be completed by the Design Professional in General Responsible Charge of the project, in accordance with California Code of Regulations, Title 24, Part 1, Sections 4-317, 4-323 and 4-338 and in compliance with DSA IR A-6: Construction Change Document Submittal and Approval Process.

DSA documents referenced within this form are available on the [DSA Forms](#) or [DSA Publications](#) webpages.

1. SUBMITTAL TYPE: (Is this a resubmittal? Yes <input type="checkbox"/> No <input type="checkbox"/>)			
Deferred Submittal <input type="checkbox"/>	Addendum Number:	Revision Number:	CCD Number: Category A <input type="checkbox"/> or B <input type="checkbox"/>
2. PROJECT INFORMATION:			
School District/Owner:		DSA File Number:	
Project Name/School:		DSA Application Number:	
3. APPLICANT INFORMATION:			
Date Submitted:		Attached Pages? No <input type="checkbox"/> Yes <input type="checkbox"/> Number of pages?	
Firm Name:		Contact Name:	
Work Email:		Work Phone:	
Firm Address:	City:	State:	Zip Code:
4. REASON FOR SUBMITTAL: (Check applicable boxes)			
<input type="checkbox"/> For revision or addendum prior to construction.		<input type="checkbox"/> For a project currently under construction.	
<input type="checkbox"/> For a project that has a form DSA 301-N: Notification of Requirement for Certification, DSA 301-P: Posted Notification of Requirement for Certification or a 90-Day Letter issued.			
<input type="checkbox"/> To obtain DSA approval of an existing uncertified building or buildings.			
<input type="checkbox"/> For Category B CCD this is: <input type="checkbox"/> a voluntary submittal, <input type="checkbox"/> a DSA required submittal (attach DSA notice requiring submission).			
5. DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE:			
Name of the Design Professional In General Responsible Charge:			
Professional License Number:		Discipline:	
Design Professional in General Responsible Charge Statement: The attached post-approval documents have been examined by me for design intent and appear to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications. They are acceptable for incorporation into the construction of the project.			
Signature:  _____ <div style="text-align: center; font-size: small;">DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE</div>			
6. CONFIRMATION, DESCRIPTION AND LISTING OF DOCUMENTS:			
For addenda, revisions, or CCDs: CHECK THIS BOX <input type="checkbox"/> to confirm that <i>all</i> post-approval documents have been stamped and signed by the Responsible Design Professional listed on form DSA 1: Application for Approval of Plans and Specifications for this project. (For Deferred Submittals, refer to IR A-18: Use of Construction Documents Prepared by Other Professionals, and IR A-19: Design Professional's Signature and Seal (Stamp) on Construction Documents, when applicable, for signature and seal requirements.)			
Provide a brief description of construction scope for this post-approval document (attach additional sheets if needed):			
List of DSA-approved drawings affected by this post-approval document:			

DSA USE ONLY		
SSS RBH Date 11/05/20 <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved <input type="checkbox"/> Not Required Comments: _____ FLS _____ Date _____ <input type="checkbox"/> Approved <input type="checkbox"/> Disapproved <input checked="" type="checkbox"/> Not Required Comments: _____ ACS _____ Date _____ <input type="checkbox"/> Approved <input type="checkbox"/> Disapproved <input checked="" type="checkbox"/> Not Required Comments: _____	<div style="border: 1px solid black; padding: 5px; text-align: center;"> Returned Date: _____ By: _____ </div>	<div style="border: 1px solid black; padding: 10px; text-align: center;"> DSA STAMP APPROVED DIV. OF THE STATE ARCHITECT APP: 02-118208 INC: REVIEWED FOR SS <input checked="" type="checkbox"/> FLS <input type="checkbox"/> ACS <input type="checkbox"/> DATE: 11/05/2020 </div>



ADDENDUM #1

To: DSA, SACRAMENTO **A#:** 02-118208
From: IMEG Corp. **FILE #:** 10-48
Project FUSD Vinland ES Kitchen
IMEG #: 19000642.00
Date: October 20, 2020

Please see the following addendum for Mechanical systems.
All revisions to drawings are indicated by cloud and delta No.1

MECHANICAL

- 1.1 SHEET M2.1
 - A. Added patch and paint general note.
 - B. Modified keynote 2 stating to remove existing power and controls wiring.
- 1.2 SHEET M2.2
 - A. Modified demolition keynotes.
- 1.3 SHEET M3.1
 - A. Modified keynotes.
 - B. Added general note.
- 1.4 SHEET M3.2
 - A. Added keynote 6.
- 1.5 SHEET M4.1
 - A. Modified detail 1 "Condensing Unit On Roof" to FUSD approved detail.
- 1.6 SHEET M4.2
 - A. Relocated detail 3 to Sheet M5.1.
 - B. Modified detail 4. Added FUSD approved detail "Shingles, Wood Mechanical Curb/Platform."
 - C. Modified detail 6 "Condensate Connection To Lavatory."
 - D. Modified detail 8 "Shingles, Conduit Support" to FUSD approved detail.
- 1.7 SHEET M5.1
 - A. Relocated "Split System Wiring Diagram" from Sheet M4.2 Detail 4 to Sheet M5.1 Detail 3.
 - B. Relocated "Control Wiring Legend" from Sheet M4.2 Detail 3 to Sheet M5.1 Detail 4.

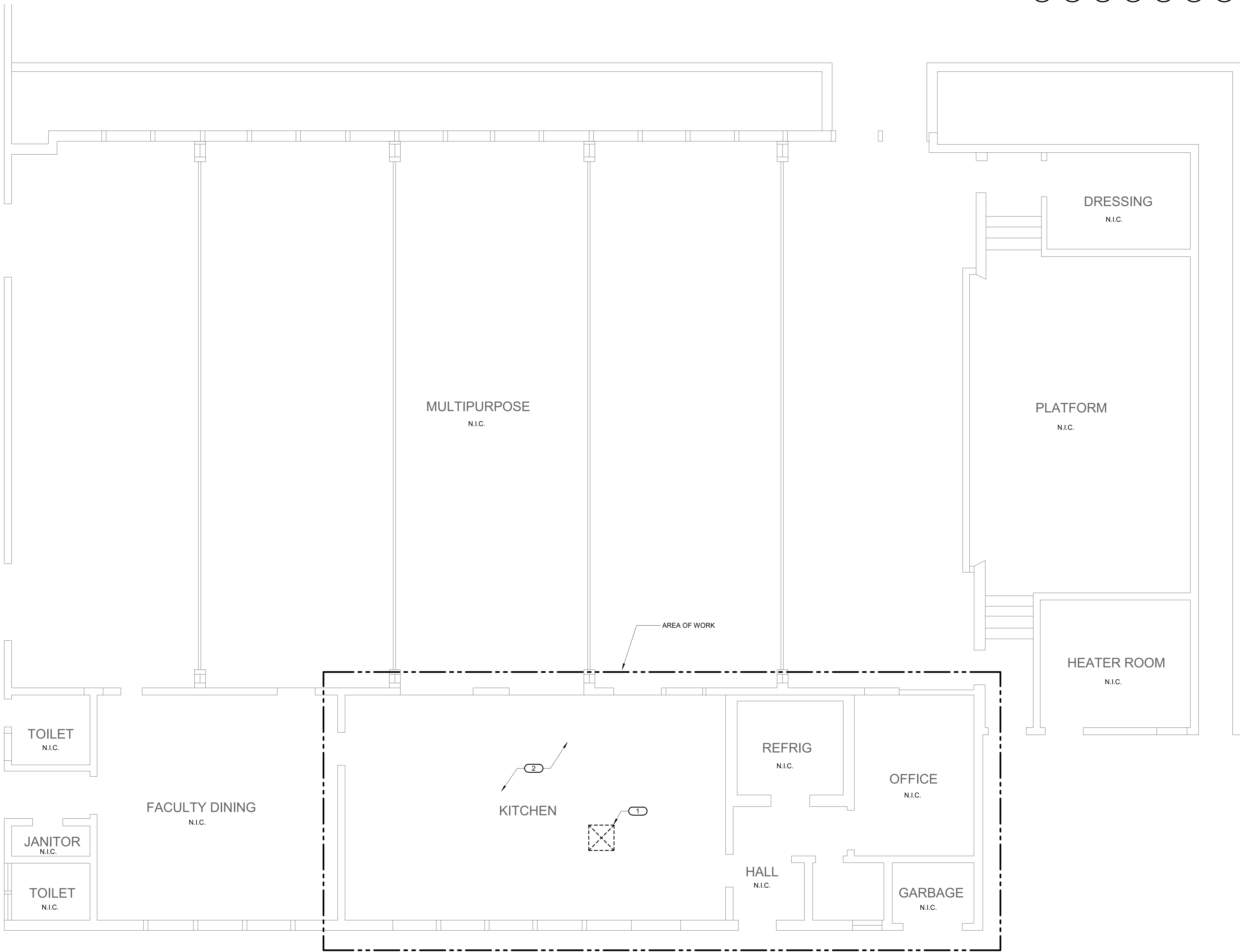
19000642.00 11/3/2020 2:39:24 PM VINLAND KITCHEN HVAC ADDITION



1

DEMOLITION FLOOR PLAN

1/4" = 1'-0"

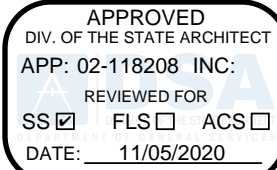


DEMOLITION KEYNOTES: #

1. EXISTING SUPPLY DUCT AND DIFFUSER FOR EXISTING EVAPORATIVE COOLER TO BE DEMOLISHED.
2. FIELD LOCATE ELECTRICAL CONTROLS/SWITCHES ASSOCIATED WITH EXISTING EVAPORATIVE COOLER BEING DEMOLISHED AND REMOVE EXSISTING POWER AND CONTROLS WIRING, CONDUITS AND SWITCHES. PATCH AND PAINT WALLS AND CEILING TO MATCH EXISTING.

GENERAL NOTES:

1. WHERE ANY DEMOLITION REQUIRES PATCH AND PAINT OF EXISTING WALLS AND CEILINGS. THE PAINTING SHALL BE CORNER TO CORNER FOR COMPLETE COVERAGE.



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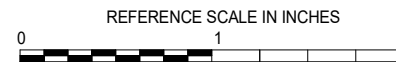
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REVISIONS

No.	Date	Revision / Issue
1	10/19/2020	REVISION 1

SHEET INFORMATION

Issue	BID SET - ADDENDUM 1
Date	10.20.2020
Job Number	19000642.00
Drawn	ZM
Checked	JM
Approved	ED

SHEET TITLE

DEMOLITION FLOOR PLAN

SCALE

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

SHEET NUMBER

M2.1

EXHIBIT B

19000642.00 11/3/2020 2:39:26 PM VINLAND KITCHEN HVAC ADDITION



1

DEMOLITION ROOF PLAN

1/4" = 1'-0"

DEMOLITION KEYNOTES: (#

1. EXISTING EVAPORATIVE COOLER TO BE DEMOLISHED. ASSOCIATED CURB AND BLOCKING TO BE DEMOLISHED. REPAIR ROOF TO MATCH EXISTING.
2. EXISTING MECHANICAL EQUIPMENT TO REMAIN AND BE PROTECTED IN PLACE. CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGES CAUSED DURING DEMOLITION.

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DIV. OF THE STATE ARCHITECT
APP: 02-118208 INC:
REVIEWED FOR
SS ☒ FLS ☐ ACS ☐
DATE: 11/05/2020



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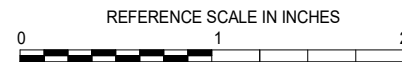
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REVISIONS

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1	10/19/2020	REVISION 1

SHEET INFORMATION

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Date	10.20.2020
Job Number	19000642.00
Drawn	ZM
Checked	JM
Approved	ED

SHEET TITLE

DEMOLITION ROOF PLAN

SCALE

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

SHEET NUMBER

M2.2

EXHIBIT B

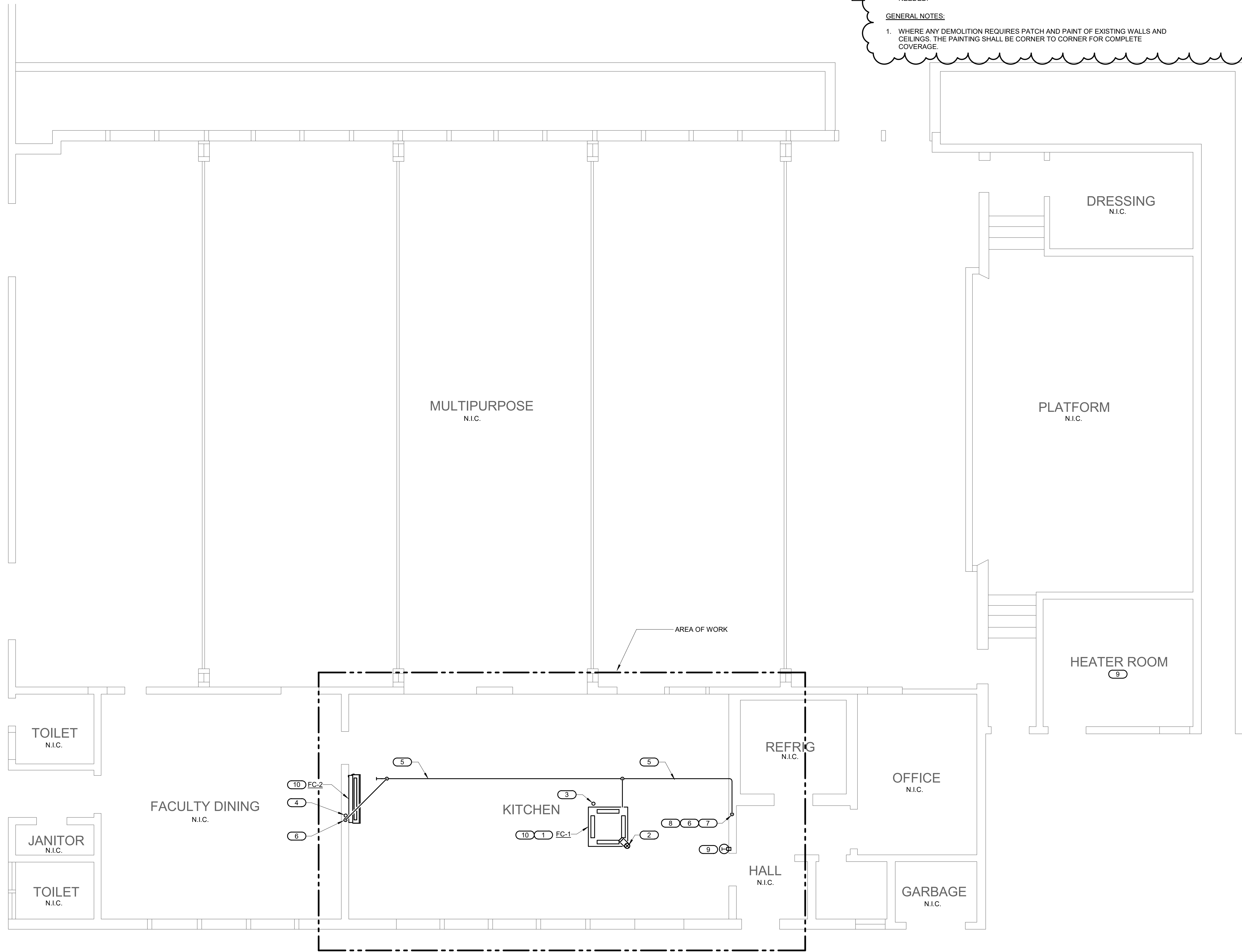
19000642.00 11/3/2020 2:39:27 PM VINLAND KITCHEN HVAC ADDITION



1

REMODEL FLOOR PLAN

1/4" = 1'-0"

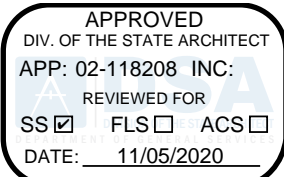


REMODEL KEYNOTES:

1. NEW FAN COIL UNITS TO BE INSTALLED IN EXISTING OPENING IN CEILING.
2. NEW 4"Ø OSA DUCT UTR TO NEW ROOF CAP. REFER TO DETAIL 5/M4.1. BALANCE OSA TO MIN 85 CFM.
3. REFRIGERANT LINES IN CEILING SPACE TO FC-1.
4. REFRIGERANT LINES IN (E)WALL TO FC-2.
5. 3/4" INSULATED CONDENSATE LINE IN CEILING SPACE.
6. 3/4" INSULATED CONDENSATE LINE IN WALL. REMOVE DRYWALL BETWEEN STUDS IN ORDER TO INSTALL PIPE IN WALL. PATCH AND PAINT WALL TO MATCH EXISTING AFTER PIPE INSTALLATION.
7. CONNECT CONDENSATE LINE INTO (E)SINK TRAP. INSTALL NEW TRAP WITH CONDENSATE LINE CONNECTION IF NECESSARY. REFER TO DETAIL 6/M4.2.
8. RUN NEW CONDENSATE LINE IN (E)CASEWORK TO (E)SINK. FIELD COORDINATE EXACT ROUTING OF PIPING WITHIN CASE WORK TO MINIMIZE DISRUPTION AND SPACE CONSIDERATION.
9. INSTALL NEW DDC THERMOSTAT AND TIE INTO BOTH FAN COIL UNITS.
10. CONNECT NEW FAN COIL CONTROLLERS TO EXISTING JOHNSON CONTROLS EMS SYSTEM PANEL IN HEATER ROOM. ROUTE NEW CONDUIT AS NEEDED.

GENERAL NOTES:

1. WHERE ANY DEMOLITION REQUIRES PATCH AND PAINT OF EXISTING WALLS AND CEILINGS. THE PAINTING SHALL BE CORNER TO CORNER FOR COMPLETE COVERAGE.



VINLAND KITCHEN HVAC ADDITION

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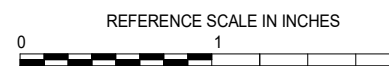
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SHEET TITLE

REMODEL FLOOR PLAN

SCALE

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

SHEET NUMBER

M3.1

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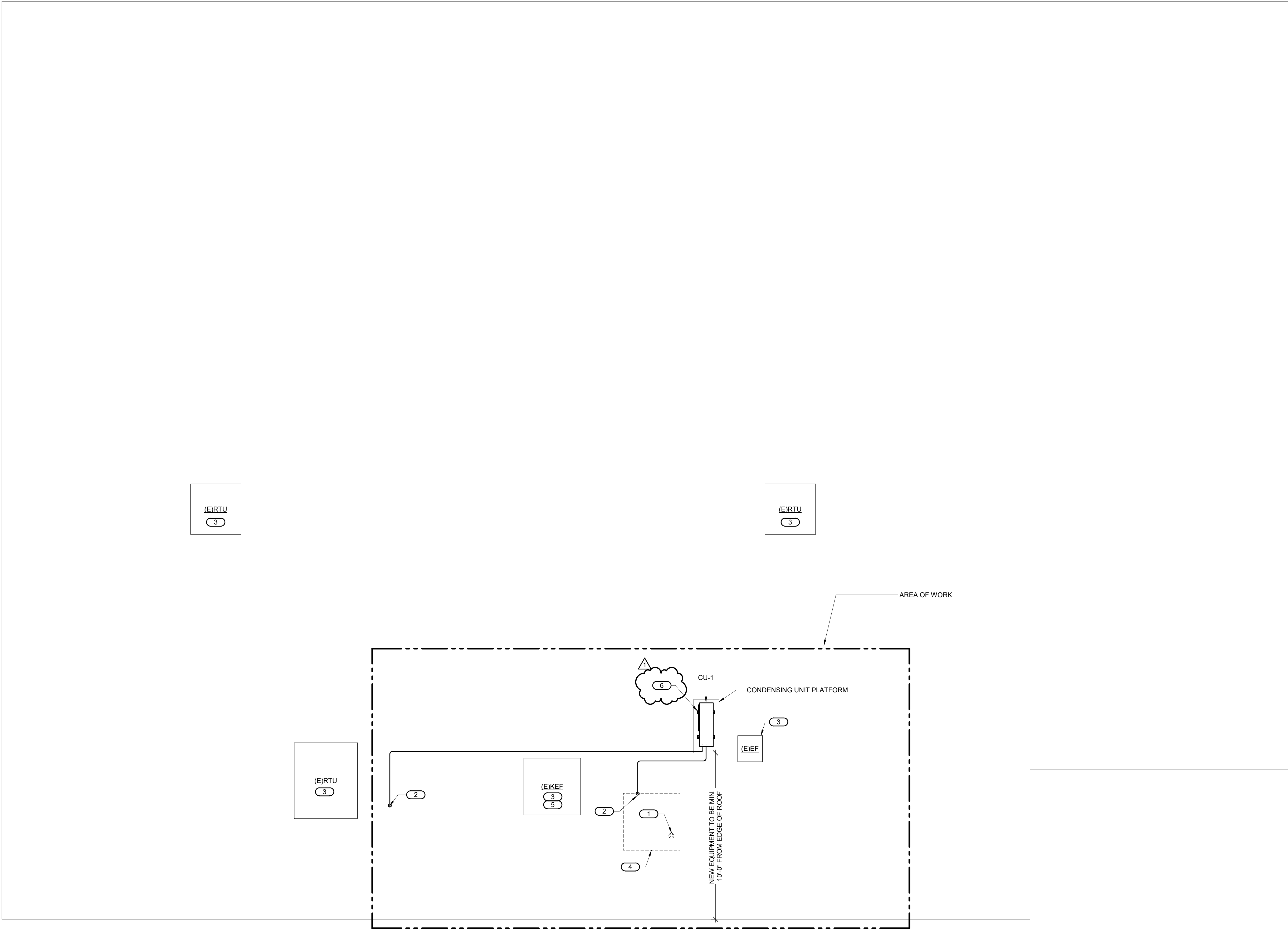
1

REMODEL ROOF PLAN

1/4" = 1'-0"

REMODEL KEYNOTES:

1. NEW OSA INTAKE CAP TO BE INSTALLED IN EXISTING ROOF OPENING.
2. FOR REFRIGERANT LINE THROUGH ROOF REFER TO 1/M4.2.
3. EXISTING MECHANICAL EQUIPMENT TO REMAIN AND BE PROTECTED IN PLACE. CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGES CAUSED DURING CONSTRUCTION.
4. EXISTING ROOF OPENING TO BE PATCHED TO MATCH EXISTING FINISH, RATING, AND CONSTRUCTION TYPE. PATCHING MUST ADHERE TO ANY AND ALL REQUIREMENTS NECESSARY TO MAINTAIN EXISTING WARRANTY. COORDINATE WITH DISTRICT PRIOR TO STARTING CONSTRUCTION.
5. BALANCE EXISTING KITCHEN EXHAUST FAN TO MIN 400 CFM PER TITLE 24 REQUIREMENTS.
6. FOR CONDENSING UNIT MOUNTING TO ROOF REFER TO 1/M4.1.



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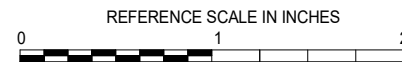
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REMODEL ROOF PLAN

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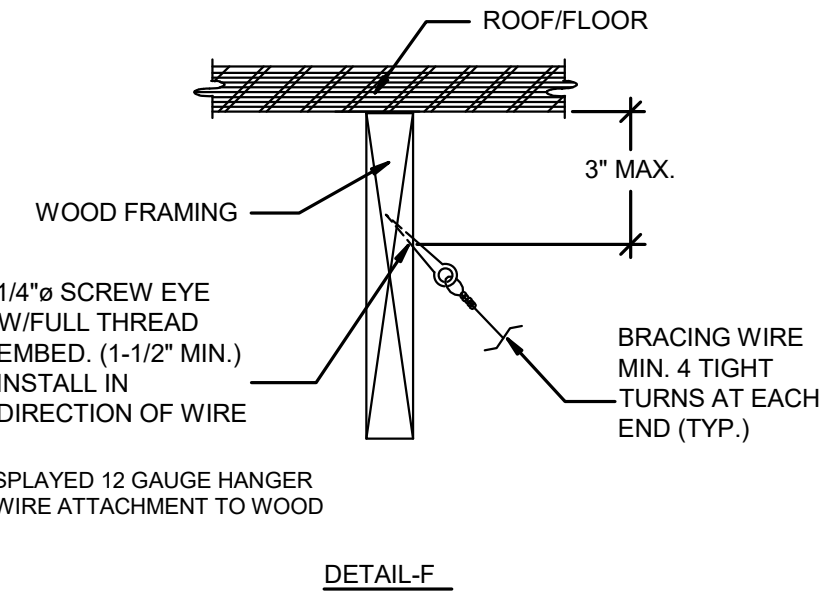
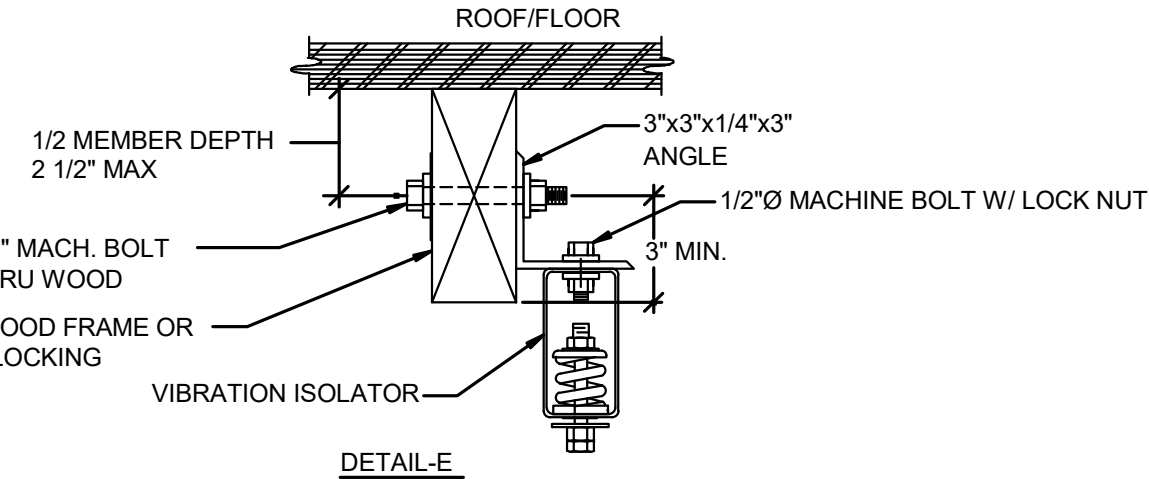
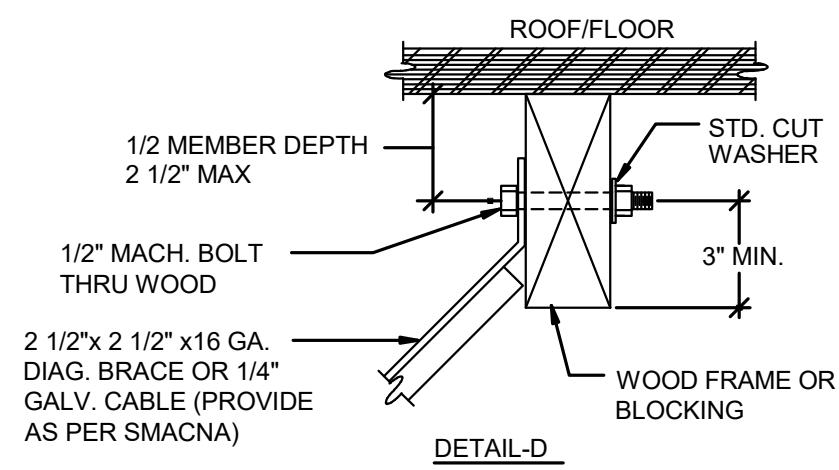
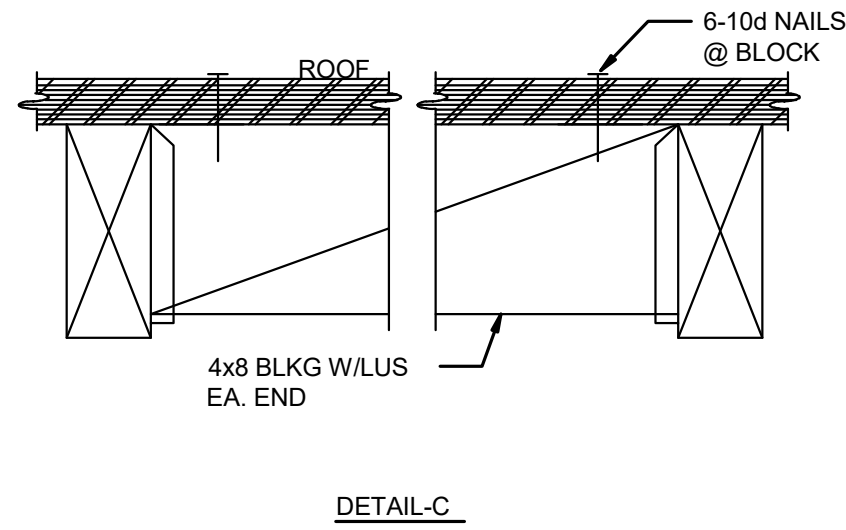
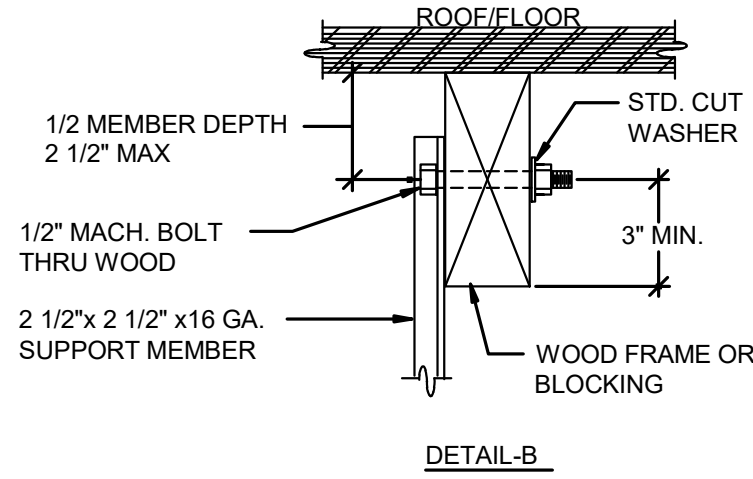
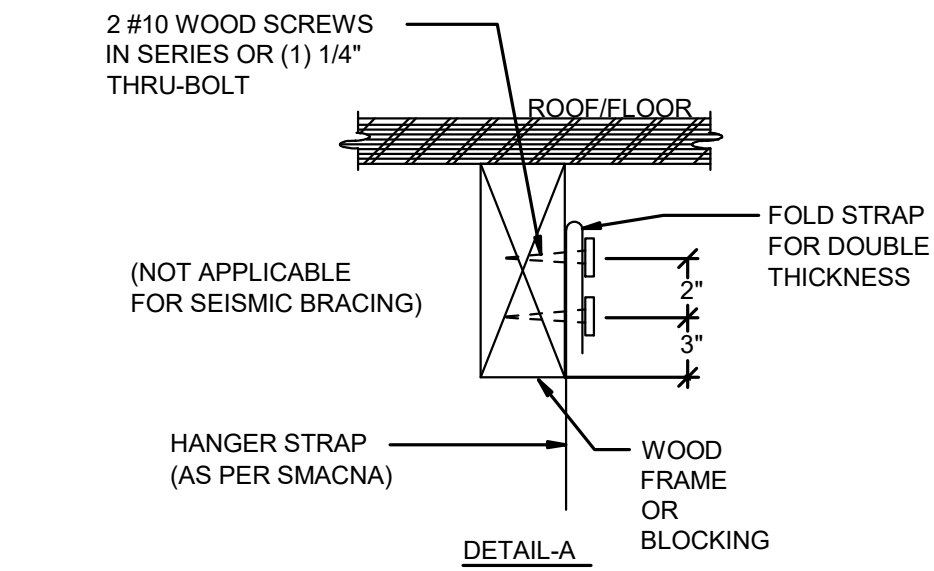
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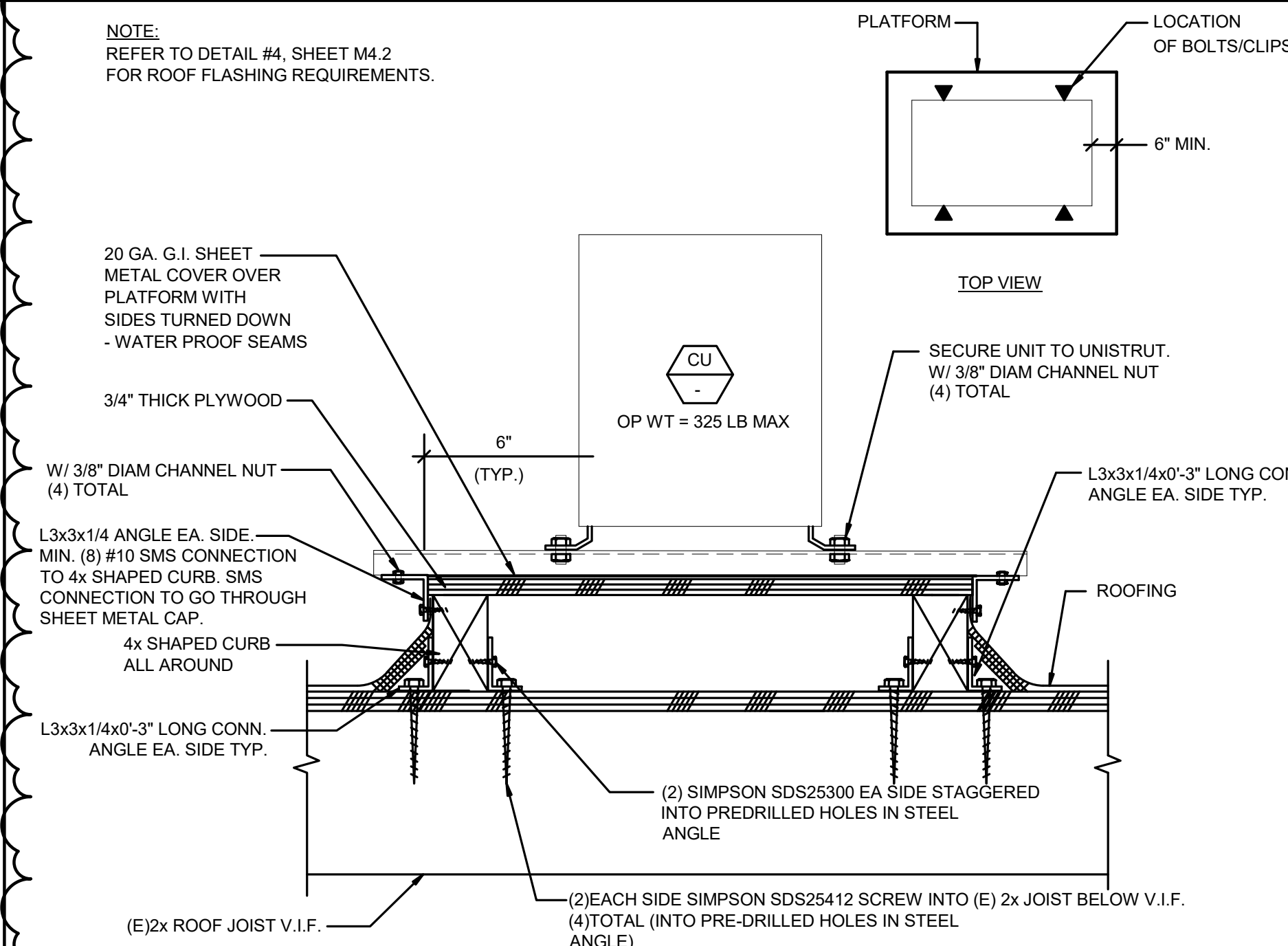
M3.2

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NOTE:
REFER TO DETAIL #4, SHEET M4.2
FOR ROOF FLASHING REQUIREMENTS.



CONDENSING UNIT ON ROOF

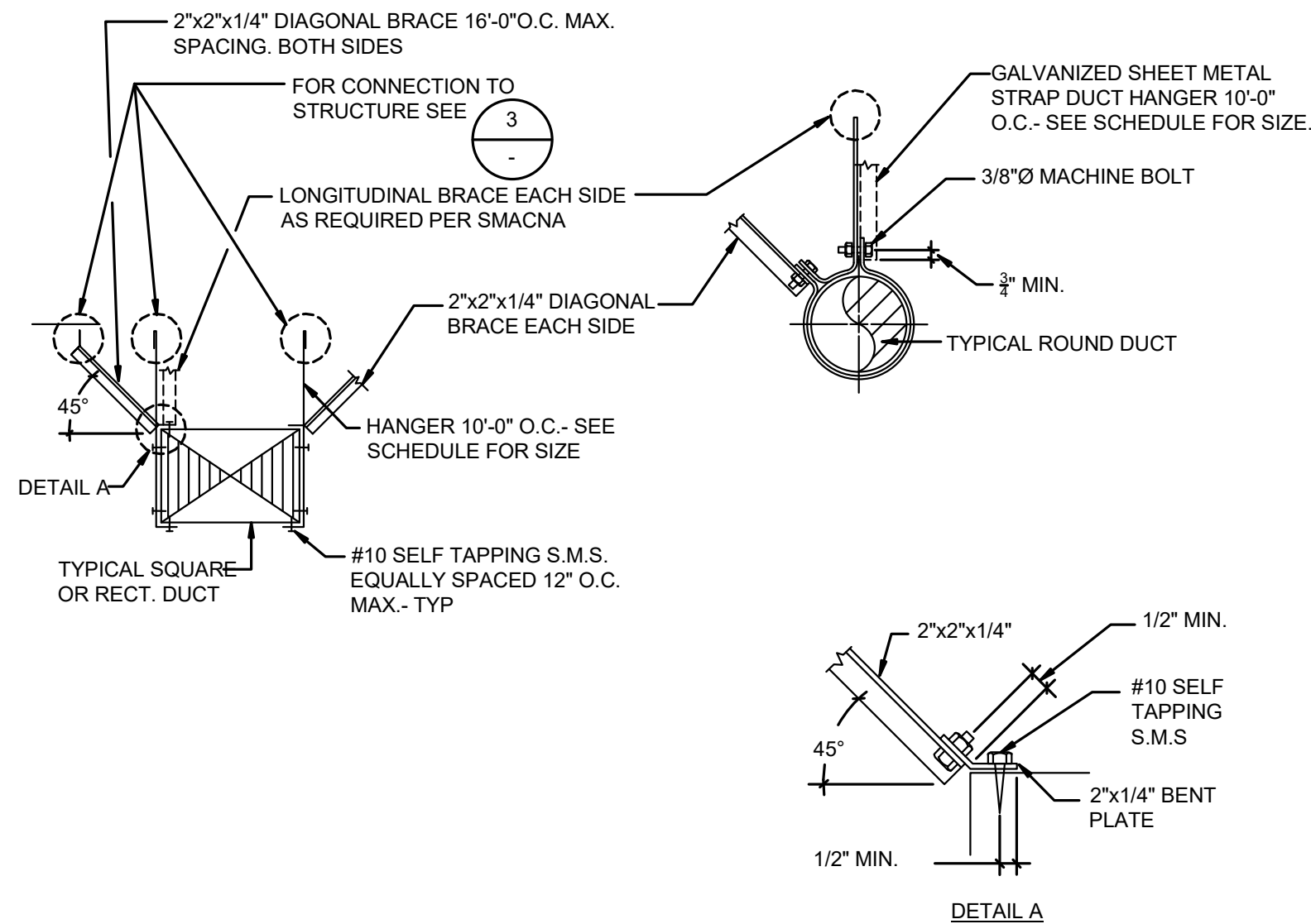
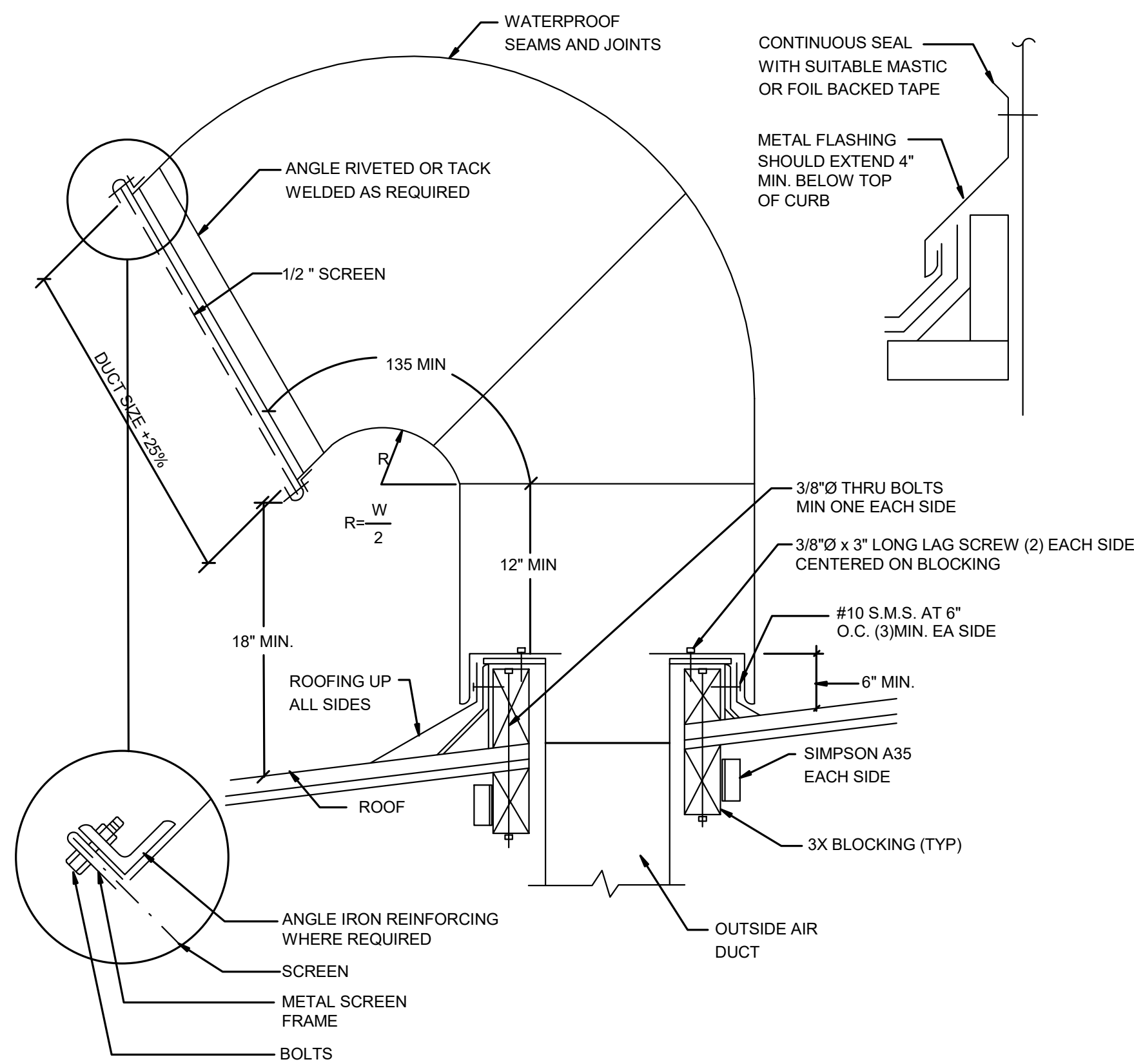
NTS

1

DUCT, PIPE, AND EQUIPMENT SUPPORT CONNECTION TO STRUCTURE

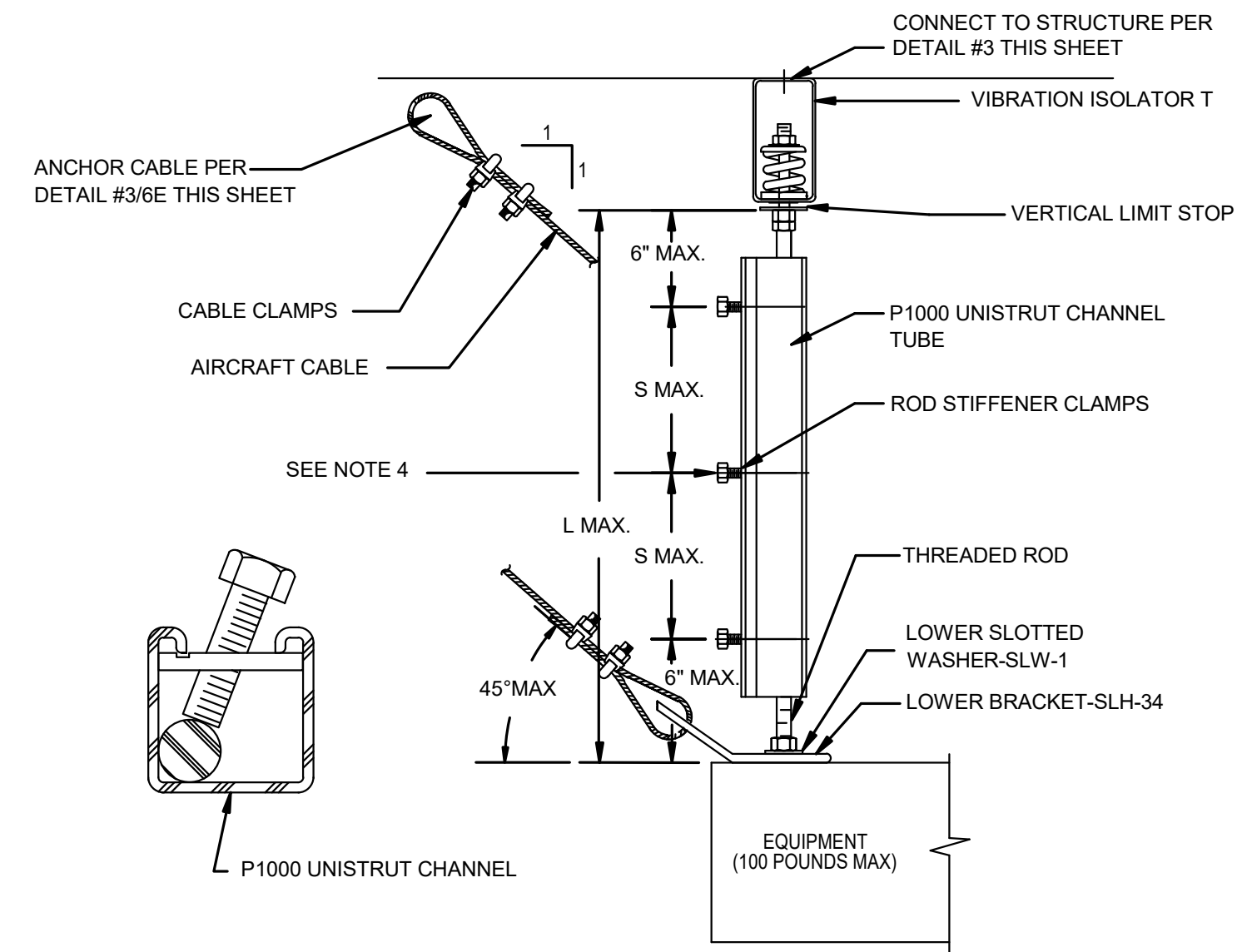
NTS

3



RECTANGULAR DUCT			ROUND DUCT		
MAX. OF DUCT PERMETER/IN.	STRAP	MAX. LOAD EACH HANGER/LBS.	DIAMETER /INCHES	STRAP	MAX. LOAD EACH HANGER/LBS.
P/2 =72	1\"X 20 GA.	20	UP TO 20"	1\"X 20 GA.	20
P/2 =96	1\"X 18 GA.	30	21\" TO 36"	1\"X 18 GA.	30

- NOTE:
- NO BRACING REQUIRED IF DUCT IS SUSPENDED 12 INCHES OR LESS IN LENGTH.
 - FOR TRANSVERSE AND LONGITUDINAL BRACING FOLLOW "SMACNA" GUIDELINES FOR SEISMIC HAZARD LEVEL "A".



- NOTES:
- SEE TABLE 1 FOR MAXIMUM LENGTH OF 3/8" THRU 7/8" DIAMETER RODS WITHOUT ROD STIFFENER.
 - SEE TABLE 2 FOR MAXIMUM LENGTH OF 3/8" THRU 7/8" DIAMETER RODS WITH ROD STIFFENER.
 - SEE TABLE 3 TO DETERMINE NUMBER OF ROD STIFFENER CLIPS REQUIRED.
 - (6) ROD STIFFENER CLAMPS PROVIDED IN A KIT. IF ADDITIONAL CLIPS ARE REQUIRED, CONTACT M. W. SAUSSE' & CO., INC.

M.W. SAUSSE' SEISMIC CABLE BRACING
EQUIPMENT KIT NO: 316C4-12R1-4R1

(4) UPPER BRACKET - SLH-34
(4) UPPER SLOTTED WASHER -SLW-3
(4) LOWER BRACKET - SLH-34
(4) LOWER SLOTTED WASHER -SLW-1
(8) ROD STIFFENER CLAMPS - RS-18
(4) CABLE - 3/16" - 10 FT.
(24) CABLE CLAMPS - 3/16"

TABLE 1. (L MAX. W/O ROD STIFFENER)

ROD DIA.	3/8"	1/2"	5/8"	3/4"	7/8"
L MAX.	18"	25"	31"	37"	43"

TABLE 2. (L MAX. W/ ROD STIFFENER)

ROD STIFFENER	12GA. X 1-5/8" X 1-5/8 STRUT CHANNEL
L MAX.	116"

TABLE 3. (S MAX. W/ ROD STIFFENER)

ROD DIA.	3/8"	1/2"	5/8"	3/4"	7/8"
S MAX.	18"	25"	31"	37"	43"

CEILING MOUNTED EQUIPMENT MOUNTING

NTS

2

GOOSENECK INSTALLATION

NTS

5

DUCT SUPPORT DETAIL

NTS

4

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School District
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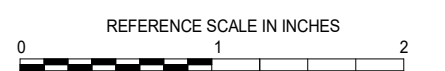
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DETAILS

SCALE

Scale:

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M4.1

EXHIBIT B



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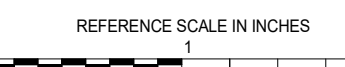
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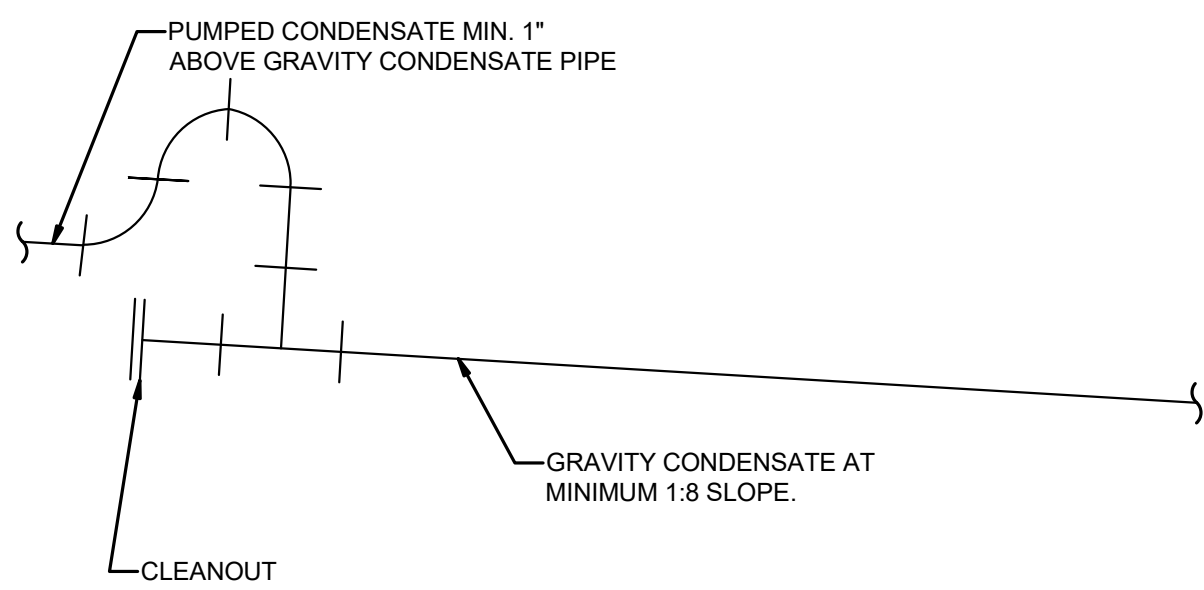
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SHEET NUMBER

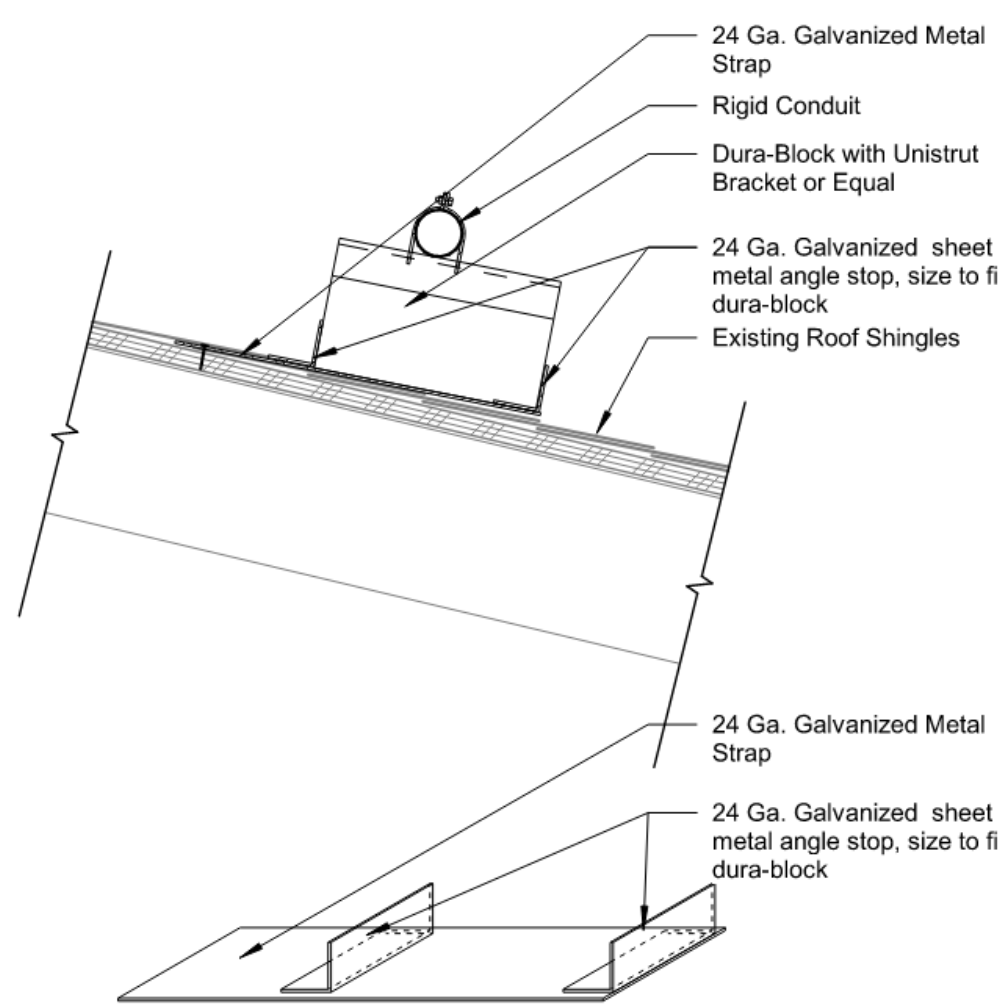
M4.2

EXHIBIT B



PUMPED TO GRAVITY CONDENSATE CONNECTION

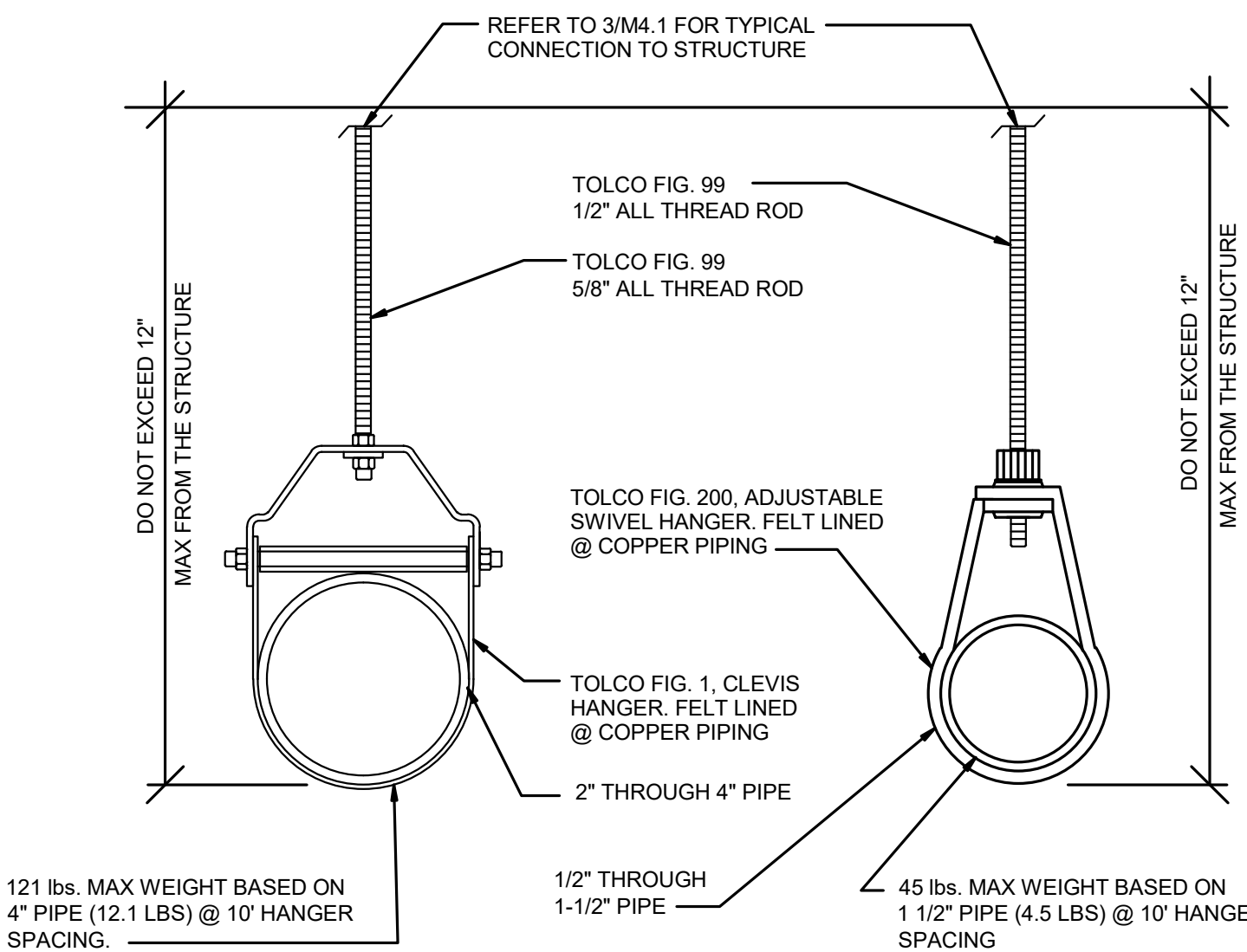
NTS 7



- NOTES:
1. Dura-Block Size: Job Specific
 2. 24 Ga Galvanized Metal Strap
a. Size to fit Dura-block
b. Friction fit retaining angles to side of dura-block
c. Attach to deck with shingle nails under shingle tab.
 3. Spacing: not to exceed 60" o.c. or 24" from Conduit joint.

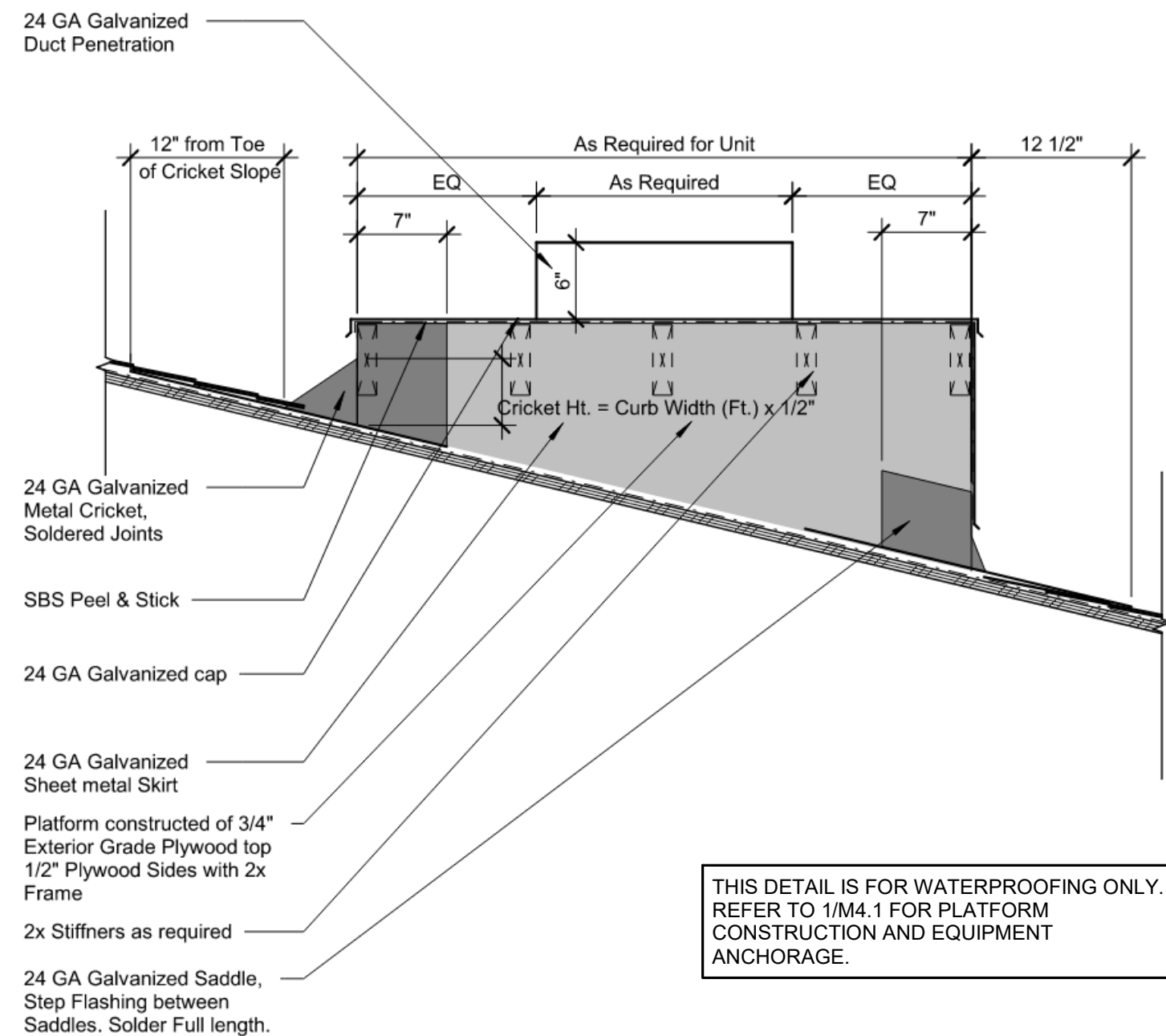
SHINGLES, CONDUIT SUPPORT

NTS 8



PIPE HANGER

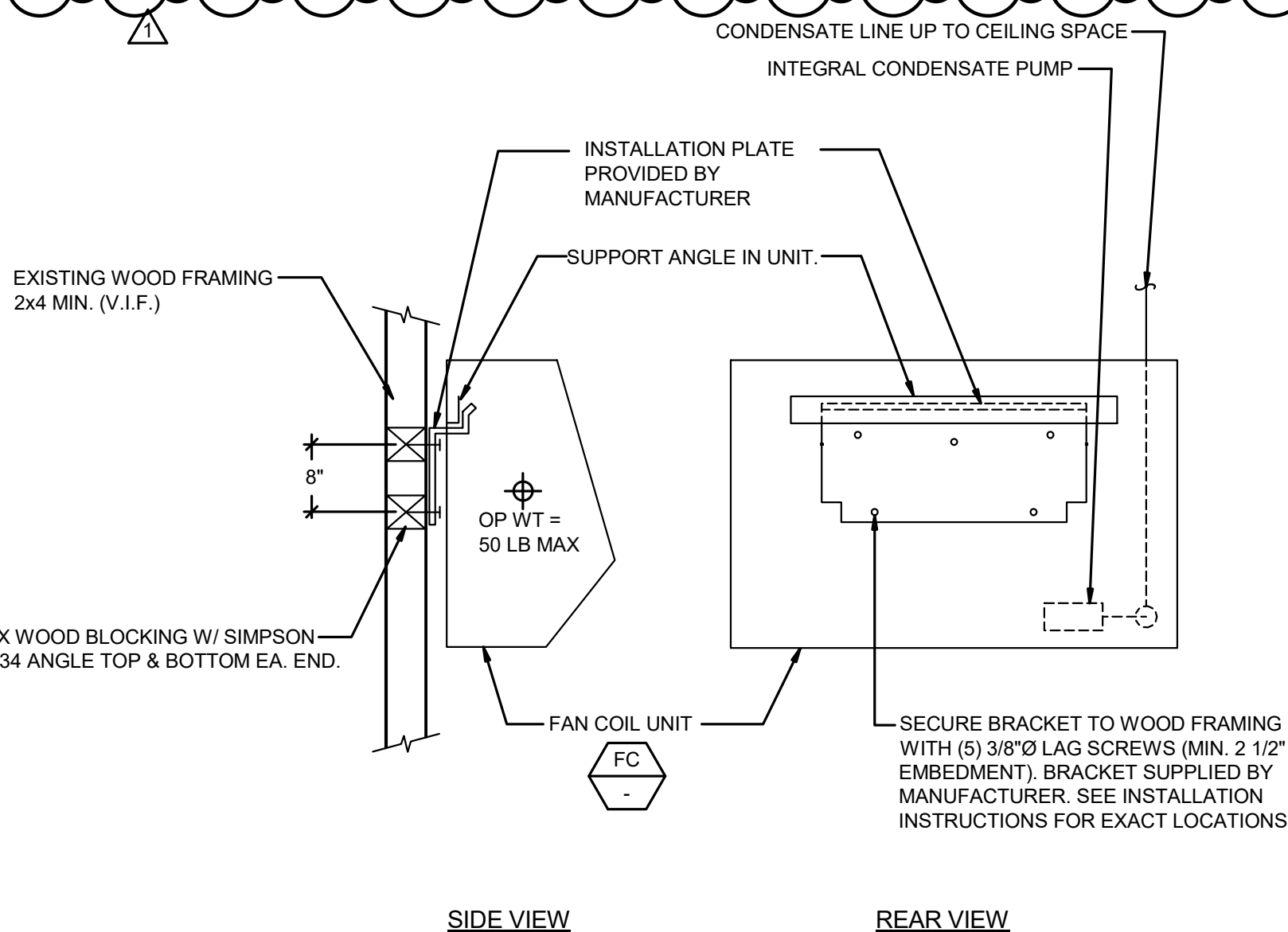
NTS 9



THIS DETAIL IS FOR WATERPROOFING ONLY. REFER TO 1/M4.1 FOR PLATFORM CONSTRUCTION AND EQUIPMENT ANCHORAGE.

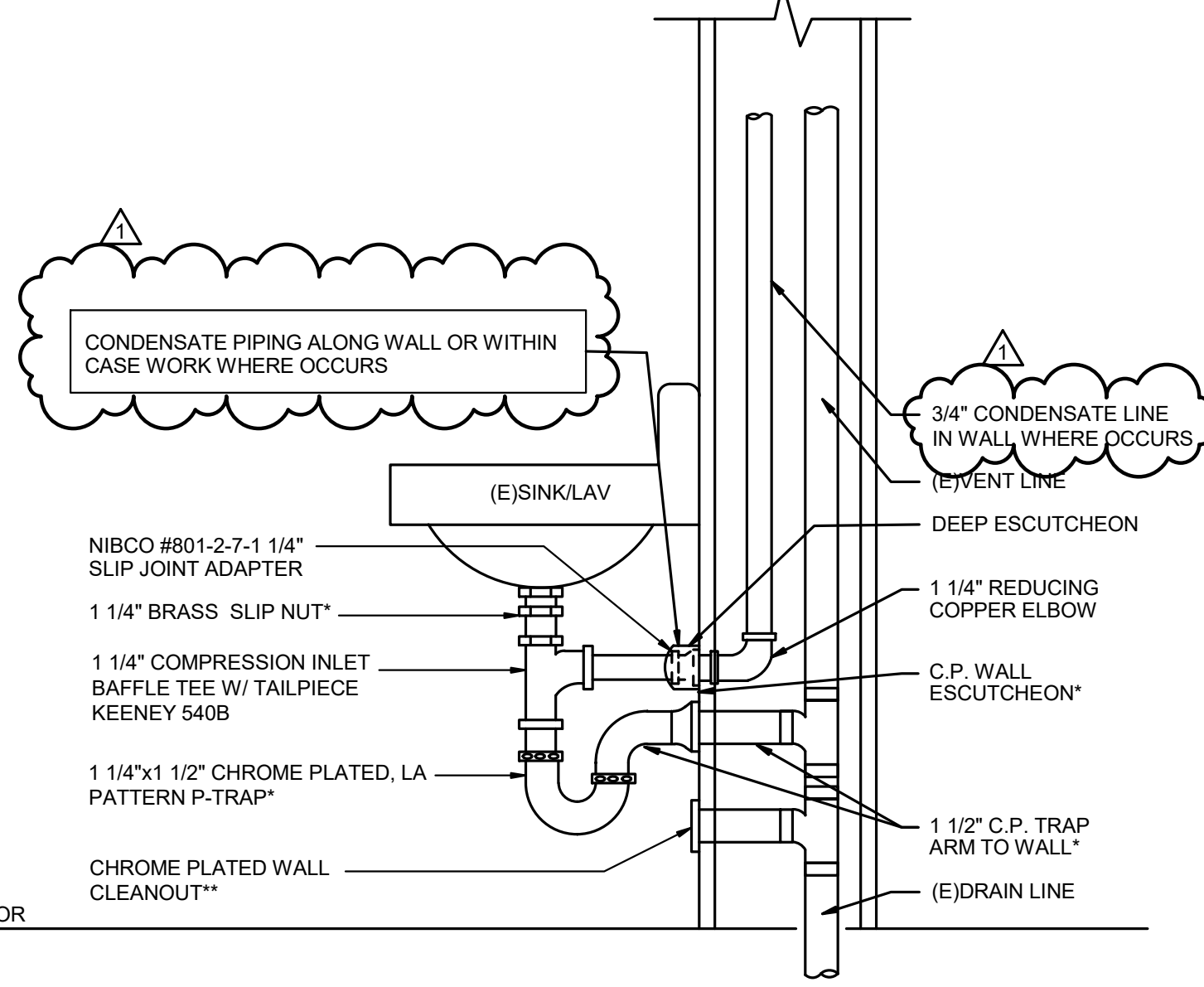
EQUIPMENT CURB/PLATFORM FLASHING

NTS 4



WALL MOUNTED FAN COIL

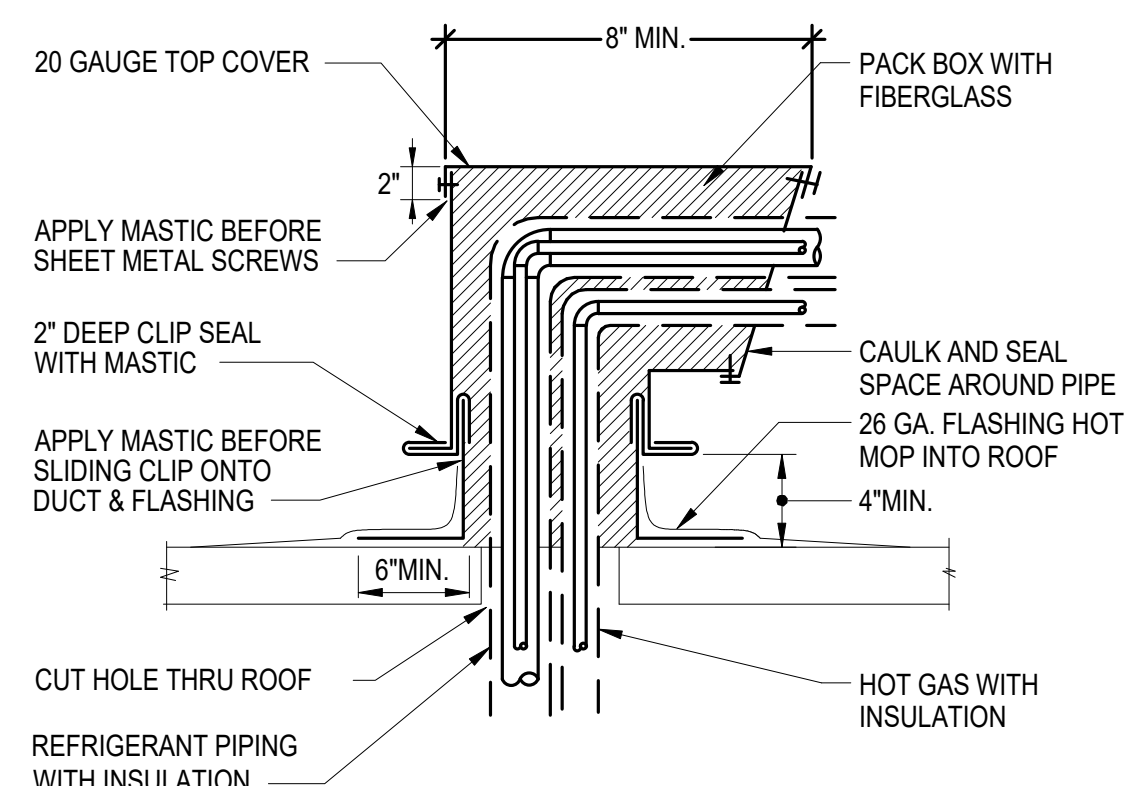
NTS 5



CONDENSATE CONNECTION TO LAVATORY

NTS 6

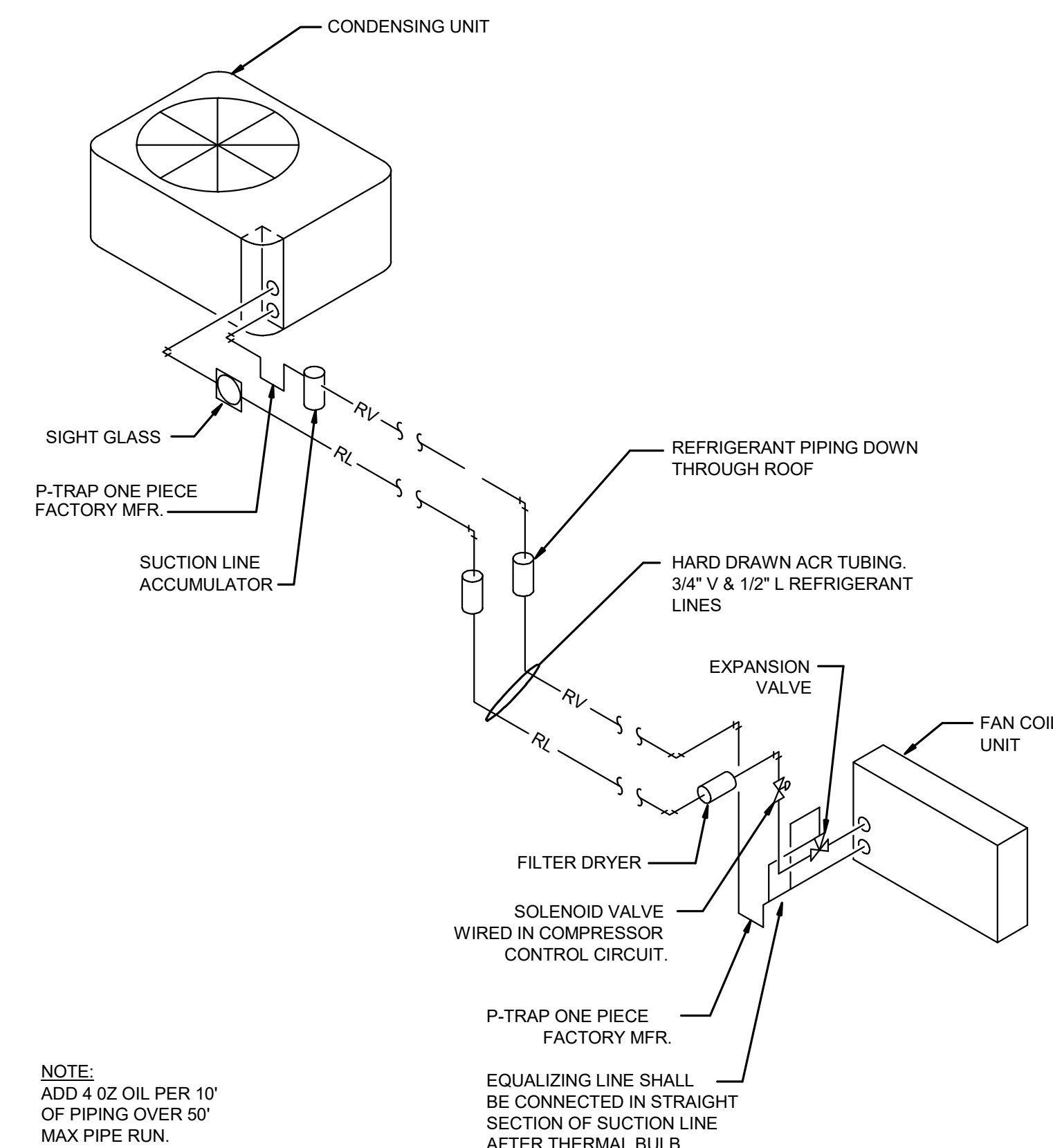
*THE EXISTING COMPONENTS MAY BE REUSED IF NO DAMAGE OR LEAKS ARE PRESENT. NEW COMPONENTS LISTED IN THIS DETAIL ARE TO BE USED IF EXISTING COMPONENTS ARE DAMAGED AND/OR NOT COMPATIBLE WITH CONDENSATE DRAIN CONNECTION.
**CLEANOUT AND ACCESSIBLE CLEANOUT COVER WILL BE REQUIRED IF NO EXISTING CLEAN OUT IS PRESENT. VERIFY IN FIELD.



NOTE: 1. PAINT ALL EXPOSED SHEET METAL PARTS WITH WEATHER RESISTANT PAINT.

REFRIGERANT PIPE THRU ROOF

NTS 1



NOTE:
ADD 4 OZ OIL PER 10'
OF PIPING OVER 50'
MAX PIPE RUN.

EQUALIZING LINE SHALL
BE CONNECTED IN STRAIGHT
SECTION OF SUCTION LINE
AFTER THERMAL BULB.

REFRIGERANT PIPING DIAGRAM

NTS 2

NOT IN USE

NTS 3

19000642.00 11/3/2020 2:39:33 PM VINLAND KITCHEN HVAC ADDITION

			<div></div> <div>NOTES: 1. FOR WIRING NOTES, REFER TO DETAIL 3 THIS SHEET</div>					
NOT USED	NTS	6	SPLIT SYSTEM WIRING DIAGRAM	NTS	3	EMS SYSTEM NETWORK	NTS	1
			<div><p>WIRING NOTES:</p><ul style="list-style-type: none">[] EQUIPMENT FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR (DIVISION 16).[] EQUIPMENT FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR (DIVISION 15).- - - LINE VOLTAGE WIRING AND CONDUIT FURNISHED BY ELECTRICAL CONTRACTOR.- - - LOW VOLTAGE WIRING FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR, LOW VOLTAGE CONDUIT FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR.DISC. DISCONNECT SWITCHC.B. CIRCUIT BREAKERⓉ THERMOSTAT FURNISHED AND INSTALLED BY DIVISION 15.</div>	<div></div> <div>SEQUENCE OF OPERATION: EVAPORATOR/FAN UNIT WILL BE STARTED IF ROOM TEMPERATURE EXCEEDS 75°F. ADJUSTABLE. OR FALLS BELOW 68°F. ADJUSTABLE.</div> <div>NOTE: UNIT SHALL BE BACNET COMPATIBLE OR INTERFACE SHALL BE PROVIDED.</div>	<div>CONTROL NOTES:</div> <div>1. CONTRACTOR SHALL DISCONNECT ALL EXISTING LIGHTING CONTROL CIRCUITS FROM EXISTING NETWORK AREA CONTROLLERS SCHEDULED TO BE REPLACED. CONTRACTOR SHALL RECONNECT EXISTING LIGHTING CONTROL CIRCUITS TO NEW FX80 PANELS AND DEMONSTRATE PROPER OPERATION TO DISTRICT ENERGY MANAGEMENT DEPARTMENT. FIELD VERIFY EXACT NUMBER OF CIRCUITS AND PROGRAMMING.</div> <div>2. CONTRACTOR SHALL DISCONNECT ALL EXISTING PHOTOCELL LIGHTING CONTROLLERS FROM EXISTING NETWORK AREA CONTROLLERS SCHEDULED TO BE REPLACED. CONTRACTOR SHALL RECONNECT ALL EXISTING PHOTOCELL LIGHTING CONTROLLERS TO NEW FX80 PANELS AND DEMONSTRATE PROPER OPERATION TO DISTRICT ENERGY MANAGEMENT DEPARTMENT. FIELD VERIFY EXACT NUMBER AND LOCATION OF EXISTING PHOTOCELLS.</div> <div>3. CONTRACTOR SHALL DISCONNECT ALL EXISTING OUTDOOR AIR SENSORS FROM EXISTING NETWORK AREA CONTROLLERS SCHEDULED TO BE REPLACED. CONTRACTOR SHALL RECONNECT ALL EXISTING OUTDOOR AIR SENSORS TO NEW FX80 PANELS AND DEMONSTRATE PROPER OPERATION TO DISTRICT ENERGY MANAGEMENT DEPARTMENT. FIELD VERIFY EXACT NUMBER AND LOCATION OF EXISTING OUTDOOR AIR SENSORS.</div> <div>4. PROVIDE TWO (2) SPARE PCX CONTROLLERS FOR DISTRICT ENERGY MANAGEMENT DEPARTMENT USE.</div>			
NOT USED	NTS	7	CONTROL WIRING LEGEND	NTS	4			
						<div></div> <div>KEY NOTES:</div> <div>1. NEW BACNET WIRING TO NEW AC UNITS.</div> <div>2. PROVIDE NEW JOI'S PCG CONTROLLER TO SERVE NEW AC UNITS & FAN COIL UNITS. TYPICAL. ALL NEW HVAC EQUIPMENT SHALL BE ON (1) PCG CONTROLLER LOCATED IN THE MECH. RM. 108.</div>	NTS	2
NOT USED	NTS	8	NOT USED	NTS	5	FC-1/2 AND CU-2 CONTROL DIAGRAM	NTS	2

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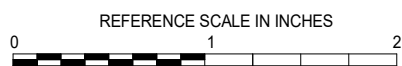
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SHEET TITLE
CONTROLS

SCALE

Scale:

SHEET NUMBER

M5.1

EXHIBIT B



November 19, 2020

Asbestos and Lead Survey Report

**Vinland Elementary School
Kitchen HVAC Upgrade Project
4666 North Maple Avenue
Fresno, California 93726**

Prepared for:

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FACS Project #PJ60931

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Executive Summary	2
Introduction.....	3
Scope of Work	3
Site Characterization	3
Survey Methods	3
Findings and Recommendations	5
Limitations.....	7

Appendix A: Asbestos Survey Summary, Asbestos Bulk Sample Chain-of-Custody Form and Laboratory Results Report	
Appendix B: Lead Survey Summary, Bulk Sample Chain-of-Custody, Laboratory Results Report, and CDPH Form 8552	
Appendix C: Sample Location Drawing	
Appendix D: Certifications of Personnel and Laboratory	

List of Acronyms

ACCM	Asbestos Containing Construction Material
ACM	Asbestos Containing Material
AHERA	Asbestos Hazard Emergency Response Act
AIHA	American Industrial Hygiene Association
CAC	California - Certified Asbestos Consultant
Cal/OSHA	California Occupational Safety and Health Association
CCR	Code of California Regulations
CFR	Code of Federal Regulation
DOSH	Department of Occupational Safety and Health
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency (EPA)
FACS	Forensic Analytical Consulting Services, Inc.
FALI	Forensic Analytical Laboratories, Inc.
ND	None Detected
NESHAP	National Emissions Standard Hazardous Air Pollutants
NIOSH	National Institute for Occupational Safety and Health
NIST	National Institute of Science and Technology
NVLAP	National Voluntary Laboratory Accreditation Program
PLM	Polarized Light Microscopy
TEM	Transmission Electron Microscopy
TTLC	Total Threshold Limit Concentration

Executive Summary

Forensic Analytical Consulting Services, Inc. (FACS) was retained by Fresno Unified School District to perform a limited asbestos and lead paint survey of Vinland Elementary School, located at 4666 North Maple Avenue in Fresno, California. The survey included suspect asbestos-containing materials (ACM) and lead-containing paints in the Multi-Purpose Room Building's Kitchen, which may be disturbed as part of an upcoming HVAC upgrade project. A summary list of suspect asbestos-containing materials and lead-containing paints / coatings which were identified and sampled are included in Appendix A and Appendix B of this report. The survey was performed on November 4, 2020.

Asbestos

Identified suspect materials that were targeted and sampled during the survey were determined to not contain asbestos by laboratory analysis. Please see the survey summary in Appendix A for a listing of suspect materials sampled during this survey.

Any suspect materials not included in this inspection must be assumed to be asbestos-containing materials until tested and proven not to contain asbestos.

Lead

Lead-based paints or coatings have a lead content at or above 1.00 mg/cm², 5,000 parts per million, or 0.5% by weight. One of the two (2) paints or coatings tested in the project areas have been identified as lead-based:

- Grey Paint on HVAC Metal Exhaust

The other paint sampled during this survey, cream paint on plaster, was found to be lead-containing.

Any other paints and coatings not included in this survey must be handled as lead-containing until sampled and proven otherwise.

FACS recommends that the results of this report be incorporated into any renovation plans provided for this project for informational purposes.

Introduction

Forensic Analytical Consulting Services, Inc. (FACS) was retained by Fresno Unified School District to perform an asbestos and lead paint survey of Vinland Elementary School, located at 4666 North Maple Avenue in Fresno, California. The survey included suspect asbestos-containing materials (ACM) and lead-containing paints in the Multi-Purpose Room Building's Kitchen, which may be disturbed as part of an upcoming HVAC upgrade project. The survey was performed on November 4, 2020.

Scope of Work

The purpose of this survey was to identify asbestos-containing materials (ACMs) and lead-containing paints or coating which may be disturbed during the upcoming HVAC upgrade project. The visual inspection, bulk sampling, and survey documentation were performed by Eric Farnsworth and Jeremy Noyola. Mr. Farnsworth is a Division of Occupational Safety and Health (DOSH) Certified Asbestos Consultant (CAC #19-6643) and California Department of Public Health (CDPH) Certified Lead Inspector and Assessor (LRC-00005578) as required by California regulations. Mr. Noyola is an EPA-accredited AHERA Building Inspector and CDPH Certified Lead Sampling Technician (LRC-00005788). Technical oversight of the survey and this report was provided by Chris Chipponeri, who is a DOSH Certified Asbestos Consultant (CAC #10-4633) and CDPH Certified Lead Inspector / Assessor (LRC-00000782). The scope of the survey and the services provided by FACS included:

- Performing a visual inspection of the subject area to identify accessible suspect asbestos-containing materials (ACMs) that will be disturbed during the upcoming project;
- Collection of bulk samples for asbestos analysis by polarized light microscopy (PLM);
- Collection of bulk paint chip samples for lead analysis by flame atomic absorption;
- Ensuring the technical quality of all work by using Asbestos Hazard Emergency Response Act (AHERA) accredited Building Inspectors;
- Ensuring the technical quality of all work by using California Department of Public Health (CDPH) Certified Lead Sampling Technicians and Inspection/Risk Assessors;
- Consolidating data and findings into a written report format.

Site Characterization

Vinland Elementary School is a typical school site located in Fresno, California. The survey was limited to the inspection of the Kitchen located in Multi-Purpose Room Building of the site. Suspect asbestos-containing materials observed to be disturbed within the project area include the following:

- Roof Shingles
- Plaster

Materials suspect for containing lead include all paints and coatings on building materials to be disturbed.

Survey Methods

Visual Inspection

Accessible interior building materials were visually inspected using the methods presented in the Federal AHERA regulations (40 CFR, Part 763). AHERA is required to be used for inspections of K-12 schools and is generally accepted as the industry standard for all ACM inspections regardless of structure or

facility type. Suspect ACMs were also physically assessed for friability, condition and possible disturbance factors.

All specified areas were accessible during this inspection. Other areas and materials found elsewhere at this site are not expected to be disturbed by the project. The inspection is based on the drawings provided by Fresno Unified School District. Review of past inspections found plaster materials to be none-detect within this building and FACS only collected a confirming sample during this survey.

Asbestos Inspection

Bulk Sample Collection

Bulk samples of identified homogeneous materials were collected in building areas that may be impacted by the planned renovation/demolition activities. Samples were collected of each separate homogeneous area (material). A homogeneous area (material) is defined as a surfacing material, thermal system insulation, or miscellaneous material that is uniform in use, color and texture. Examples of homogeneous areas could include:

Roof Shingles
Plaster

The specific number of samples collected was determined by using the methods required by the Federal AHERA regulations (40 CFR, Part 763.86) as noted below:

- 1) For Surfacing Material:
 - 1,000 ft² or less - collect 3 samples
 - 1,001 to 5,000 ft² - collect 5 samples
 - 5,001 ft² or greater - collect 7 samples
- 2) For Thermal System Insulation:
 - "In a randomly distributed manner" - collect 3 samples
 - 6 linear feet of patching or less - collect 1 sample
 - Cementitious pipe fittings - "In a manner sufficient to determine"
- 3) For all Miscellaneous Material:
 - Collect samples "In a manner sufficient to determine whether material is ACM (asbestos-containing material) or not ACM..."

The suspect ACMs were sampled using a knife, chisel, scraper, drill or other similar coring device suitable to the type of material sampled to cut through its entire thickness and to ensure that a cross-section of the material was obtained. The material was then placed in an appropriately labeled container that was sealed and submitted to SGS - Forensic Laboratories for analysis. A unique sample number (e.g. PJ460931-01A) was assigned to each sample.

Bulk samples will be retained by the laboratory for one month unless otherwise instructed. After this period, the samples will be disposed of appropriately.

Bulk Sample Analysis

A total three (3) bulk samples were collected during this survey. All bulk samples were analyzed by SGS-Forensic Laboratories (SGS-FL) in Hayward, California. SGS-FL is accredited by the California Department of Public Health (CDPH) Environmental Laboratory Accreditation Program (ELAP) and the National Institute of Science and Technology's (NIST) National Voluntary Laboratory Accreditation Program (NVLAP). SGS-FL participates in the National Institute for Occupational Safety and Health

(NIOSH) Proficiency Analytical Testing Program and has substantial experience in the analysis of asbestos.

All samples were analyzed using Polarized Light Microscopy with Dispersion Staining (PLM/DS) techniques in accordance with the methodology approved by the U.S. Environmental Protection Agency (EPA). The percentage of asbestos present in the samples was determined based on a visual area estimation. The EPA defines asbestos-containing materials (ACM) as any material containing more than one percent (1%) asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR Part 763, Section 1, Polarized Light Microscopy (PLM). 40 CFR Part 763 identifies the lower limit of reliable quantification for asbestos using the PLM method as approximately one percent (1%) by volume. Regulations in California (CAL/OSHA Title 8 CCR 1529) define asbestos-containing construction materials (ACCM) as those materials having asbestos content of greater than one tenth of one percent (> 0.1%). Therefore, for the purpose of this survey, any amount of asbestos detected will be considered positive. In addition to the percentages, the types of asbestos minerals are also reported. The PLM method is the standard method used to analyze asbestos bulk samples.

When "None Detected" (ND) appears in the laboratory results, it should be interpreted as meaning asbestos was not observed in the sample material.

Lead Inspection

The client-defined lead inspection was conducted in accordance with the CDPH Lead-Related Construction Program and modeled upon the sampling protocol described in "Chapter 7: Lead Based Paint Inspection" of the HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing (1997 Revision.)

Cal/OSHA, in Title 8 California Code of Regulations (CCR) Section 1532.1, Lead in Construction Standard which implements California Labor Code 8716-6717, regulates all construction work where an employee may be occupationally exposed to lead. Paint or materials with any detectable level of lead is considered lead-containing by Cal/OSHA.

Bulk Sampling Methodology

During this survey, FACS personnel collected two bulk lead paint chip samples for laboratory analysis. Samples were collected using a knife, chisel, or similar tool to scrape the paint or coating from the substrate it had been applied to and placed in a leak-tight container. Each sample was given a unique number, identified on a chain of custody and sent via FedEx to SGS-Forensic Laboratories for analysis. SGS-FL is accredited by the American Industrial Hygiene Association's Environmental Lead Laboratory Accreditation Program for the analysis of lead in bulk paint chip samples.

Findings and Recommendations

The survey was limited to the materials to be disturbed per project drawings as part of the upcoming Kitchen HVAC Upgrade Project at Vinland Elementary School. These are the findings of the completed survey by FACS.

Asbestos

Identified suspect materials that were sampled during the survey were determined to not contain asbestos by laboratory analysis. Please see the asbestos survey summary in Appendix A for a listing of materials sampled during this survey.

Any suspect materials not included in this inspection must be assumed to be asbestos-containing materials until tested and proven not to contain asbestos.

Lead

Lead-based paints or coatings have lead content at or above 1.00 mg/cm², 5,000 parts per million, or 0.5% by weight. One of the two (2) paint or coating samples tested in the project areas were identified as lead-based paints:

- Grey Paint on Metal Exhaust

The other paint sampled during this survey, cream paint on plaster, was found to be lead-containing.

Any other paints and coatings not included in this survey must be handled as lead-containing until sampled and proven otherwise.

Cal/OSHA and CDPH Requirements

Any project disturbing paints or coatings with any detectable concentration of lead paint, or presumed lead-containing paint, would be regulated by the Cal/OSHA Lead Construction Standard (8 CCR 1532.1). In addition, CDPH has regulations regarding the safe handling of lead-based paints and prevention of lead hazards being generated in public buildings. The following information is a summary of the requirements only and additional requirements may be required for a project.

Any contractor with workers disturbing any quantity of detectable lead must perform an initial determination regarding worker exposures to lead, which may be based on personal air monitoring at the start of the project, prior employee monitoring from the past 12 months under workplace conditions closely resembling the current project, or objective data demonstrating that exposures will not exceed the Cal/OSHA action level (30 micrograms per cubic meter of air). It is the employer's responsibility to conduct the initial determination and comply with any relevant Cal/OSHA requirements.

Workers disturbing lead must have lead awareness or action level training depending on the initial exposure determination and must use lead-safe work practices. Disturbance of lead-containing paints or coatings must be performed within a contained area to prevent the spread and build-up of lead dust in order to comply with CDPH requirements. HEPA vacuums, dustless tools or shrouds, and/or intact removal of components should be employed to minimize lead dust generation and properly cleanup work areas following disturbance to lead-containing materials during this project. Waste generated during disturbance to lead-containing materials must be profiled in a hazardous waste determination to ascertain proper disposal requirements.

If the initial determination or initial exposure monitoring shows that workers impacting lead can be expected to be or are exposed to lead above the Cal/OSHA permissible exposure level (50 micrograms per cubic meter of air) workers and supervisors must have the requisite training and CDPH certification.

EPA Repair, Renovation and Painting (RRP) rule

The EPA's Renovation, Repair, and Painting (RRP) rule applies to disturbance of lead-based paints at child-occupied facilities constructed before 1978. In the context of the RRP rule, child-occupied facility is defined as being visited by the same child under the age of 6 on two or more days per week for at least 3 hours per visit with a cumulative annual total of 60 hours. In California schools, children may be enrolled in Kindergarten if they are age 5 or older on or before September 1, and they may attend pre-Kindergarten summer programs or Transitional Kindergarten programs before being age-eligible for Kindergarten.

While there was lead-based paint present in the project area, it does not appear that more than 20 square feet of the painted exterior surface will be disturbed on this project. The US EPA RRP rule would not apply to this project as FACS understands for the work to be completed.

Limitations

This investigation is limited to the conditions and practices observed and information made available to FACS. The methods, conclusions and recommendations provided are based on FACS' judgment, expertise and the standard of practice for professional service. They are subject to the limitations and variability inherent in the methodology employed. As with all environmental investigations, this investigation is limited to the defined scope and does not purport to set forth all hazards, nor indicate that other hazards do not exist.

Please do not hesitate to contact our office at 559-436-0277 with any questions or concerns. Thank you for the opportunity to assist Central Unified School District with promoting worker, staff and student safety and a healthy environment.

Respectfully,
FORENSIC ANALYTICAL



Eric Farnsworth
Project Manager
Cal/OSHA CAC #19-6643
CDPH I/A LRC-00005578

Reviewed by:
FORENSIC ANALYTICAL



Chris Chipponeri
Local Director
Cal/OSHA CAC #10-4633
CDPH I/A LRC-00000782

Appendix A

Asbestos Survey Summary, Sample Chain-of-Custody Form and Laboratory Results Report

Asbestos Survey Summary (Lab Report # B310103)
Vinland Elementary School – Kitchen HVAC Upgrade Project, Fresno, CA
Survey Date: November 04, 2020

Sample Numbers	Material Description	Location(s) of Material	Material Number	Asbestos Content (percent)	Asbestos NESHAP Category	Approx. Quantity
01A,01B	Roof Shingle	Multi-Purpose Room: Roof	1	None Detect in Off-White Roof Shingle None Detect in Black Felt	N/A	N/A
02A	Plaster	Multi-Purpose Room: Kitchen Northwest Corner	2	None Detect in Yellow Plaster None Detect in Grey Cementitious Material None Detect in White Non-Fibrous Material None Detect in Paint	N/A	N/A



RECEIVED
NOV 05 2020
L.A. 1 - Around Ceiling
Md 11 11 OL



Bulk Asbestos Analysis

(EPA Method 40CFR, Part 763, Appendix E to Subpart E and EPA 600/R-93-116, Visual Area Estimation)

NVLAP Lab Code: 101459-0

FACS - Fresno
Eric Farnsworth
21228 Cabot Blvd.

Hayward, CA 94545

Client ID: FR09
Report Number: B310103
Date Received: 11/05/20
Date Analyzed: 11/10/20
Date Printed: 11/11/20
First Reported: 11/11/20

Job ID/Site: PJ60931; Fresno Unified School District - Facilities Management & Planning
Vinland Elementary School 4666 N Maple Ave Fresno CA 93726

Date(s) Collected: 11/04/2020

SGSFL Job ID: FR09
Total Samples Submitted: 3
Total Samples Analyzed: 3

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
PJ60931-01A	12353872						
Layer: Off-White Roof Shingle			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)	Fibrous Glass (20 %)						
PJ60931-01B	12353873						
Layer: Off-White Roof Shingle			ND				
Layer: Black Felt			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (5 %)	Fibrous Glass (30 %)						
PJ60931-02A	12353874						
Layer: Yellow Plaster			ND				
Layer: Grey Cementitious Material			ND				
Layer: White Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by SGS Forensic Laboratories (SGSFL) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by SGSFL to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by SGSFL. The client is solely responsible for the use and interpretation of test results and reports requested from SGSFL. SGSFL is not able to assess the degree of hazard resulting from materials analyzed. SGS Forensic Laboratories reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.

Appendix B

Lead Survey Summary Table, Sample Chain-of-Custody, Laboratory Results Report, and CDPH 8552 Form

Asbestos Survey Summary (Lab Report # B310103) Vinland Elementary School – Kitchen HVAC Upgrade Project, Fresno, CA Survey Date: November 04, 2020					
Sample Number	Component Location	Color	Substrate	Component	Analytical Results (weight percent of lead)
01Pb	Kitchen	Cream	Plaster	Pillar	0.42
02Pb	Kitchen	Grey	Metal	HVAC	3.9



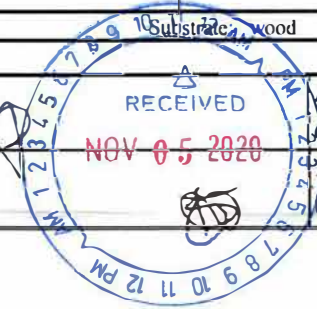
PAINT CHIP SAMPLE REQUEST FORM

Page 1 of 1

Client: FR09 FACS Fresno Fresno Unified School District	Sampled by: Jeremy Noyola PM: Eric Farnsworth Date: 11/4/20						
Contact: Eric Farnsworth Phone: (559) 436-0277	Special Instructions: E-mail results to E-mail results to efarnsworth@forensicanalytical.com and dpyle@forensicanalytical.com and jeremy.noyola@forensicanalytical.com						
Site: FRESNO UNIFIED SCHOOL DISTRICT Vinland Elementary School	Turnaround Time:	1-Day <input type="checkbox"/>	2-Day <input type="checkbox"/>	3-Day <input type="checkbox"/>	5-Day <input checked="" type="checkbox"/>	Other <input type="checkbox"/>	Due Date and Time:
Client No.: C23033 FACS Job #: PJ60931	Analysis: <input checked="" type="checkbox"/> Flame AA (Pb) / <input type="checkbox"/> Other:						

Sample Number	Sample Location	Component	Color	Substrate	Condition
PJ60931-01Pb	Multipurpose Room: Kitchen Southwest Wall	Cream Paint on Plaster Pillar	Cream	Plaster	I
PJ60931-02Pb	Multipurpose Room: Roof Northside East End on HVAC	Grey Paint on HVAC Metal Exhaust	Grey	Metal	I

Shipped via: <input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> Airborne <input type="checkbox"/> UPS <input type="checkbox"/> US Mail <input type="checkbox"/> Courier <input type="checkbox"/> Drop Off <input type="checkbox"/> Other:			
Relinquished by: <i>Jeremy Noyola</i>	Date & Time: <i>1500 11/4/2020</i>	Received by: <i>[Signature]</i>	Date & Time: <i>NOV 05 2020</i>
Relinquished by: <i>[Signature]</i>	Date & Time: <i>1500 11/4/2020</i>	Received by: <i>[Signature]</i>	Date & Time: <i>NOV 05 2020</i>



Metals Analysis of Paints

(AIHA-LAP, LLC Accreditation, Lab ID #101762)

FACS - Fresno
Eric Farnsworth
21228 Cabot Blvd.

Hayward, CA 94545

Client ID: FR09
Report Number: M229713
Date Received: 11/05/20
Date Analyzed: 11/11/20
Date Printed: 11/11/20
First Reported: 11/11/20

Job ID / Site: PJ60931; Fresno Unified School District - Facilities Management & Planning
Vinland Elementary School 4666 N Maple Ave Fresno CA 93726

Date(s) Collected: 11/4/20

SGSFL Job ID: FR09

Total Samples Submitted: 2

Total Samples Analyzed: 2

Sample Number	Lab Number	Analyte	Result	Result Units	Reporting Limit*	Method Reference
PJ60931-01PB	30879060	Pb	0.42	wt%	0.06	EPA 3050B/7000B
PJ60931-02PB	30879061	Pb	3.9	wt%	0.6	EPA 3050B/7000B

* The Reporting Limit represents the lowest amount of analyte that the laboratory can confidently detect in the sample, and is not a regulatory level. The Units for the Reporting Limit are the same as the Units for the Final Results.



Kevin Poon, Laboratory Analyst, Hayward Laboratory

Analytical results and reports are generated by SGS Forensic Laboratories at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by SGS Forensic Laboratories to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by SGS Forensic Laboratories. The client is solely responsible for the use and interpretation of test results and reports requested from SGS Forensic Laboratories. SGS Forensic Laboratories is not able to assess the degree of hazard resulting from materials analyzed. SGS Forensic Laboratories reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. Any modifications that have been made to referenced test methods are documented in SGS Forensic Laboratories' Standard Operating Procedures Manual. Sample results have not been blank corrected. Quality control and sample receipt condition were acceptable unless otherwise noted.

Note* Sampling data used in this report was provided by the client as noted on the associated chain of custody form.

LEAD HAZARD EVALUATION REPORT

Section 1 — Date of Lead Hazard Evaluation November 04, 2020

Section 2 — Type of Lead Hazard Evaluation (Check one box only)
☒ Lead Inspection ☐ Risk assessment ☐ Clearance Inspection ☐ Other (specify) _____

Section 3 — Structure Where Lead Hazard Evaluation Was Conducted

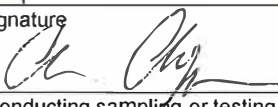
Address [number, street, apartment (if applicable)]		City	County	Zip Code
4666 Norht Maple Avenue		Fresno	Fresno	93726
Construction date (year) of structure	Type of structure		Children living in structure?	
Unknown	<input type="checkbox"/> Multi-unit building <input checked="" type="checkbox"/> School or daycare <input type="checkbox"/> Single family dwelling <input type="checkbox"/> Other _____		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Don't Know	

Section 4 — Owner of Structure (if business/agency, list contact person)

Name		Telephone number	
Fresno Unified School District / Ronika Barnes		559-994-6526	
Address [number, street, apartment (if applicable)]	City	State	Zip Code
4600 North Brawley Avenue	Fresno	CA	93722

Section 5 — Results of Lead Hazard Evaluation (check all that apply)
☐ No lead-based paint detected ☒ Intact lead-based paint detected ☐ Deteriorated lead-based paint detected
☒ No lead hazards detected ☐ Lead-contaminated dust found ☐ Lead-contaminated soil found ☐ Other _____

Section 6 — Individual Conducting Lead Hazard Evaluation

Name		Telephone number	
Chris Chipponeri		559-436-0277	
Address [number, street, apartment (if applicable)]	City	State	Zip Code
371 E. Bullard Avenue	Fresno	CA	93710
CDPH certification number	Signature		Date
LRC-00000782			11/19/2020

Name and CDPH certification number of any other individuals conducting sampling or testing (if applicable)

Eric Farnsworth LRC-00005578 / Jeremy Noyola LRC-00005788

Section 7 — Attachments

- A. A foundation diagram or sketch of the structure indicating the specific locations of each lead hazard or presence of lead-based paint;
- B. Each testing method, device, and sampling procedure used;
- C. All data collected, including quality control data, laboratory results, including laboratory name, address, and phone number.

First copy and attachments retained by inspector

Second copy and attachments retained by owner

Third copy only (no attachments) mailed or faxed to:

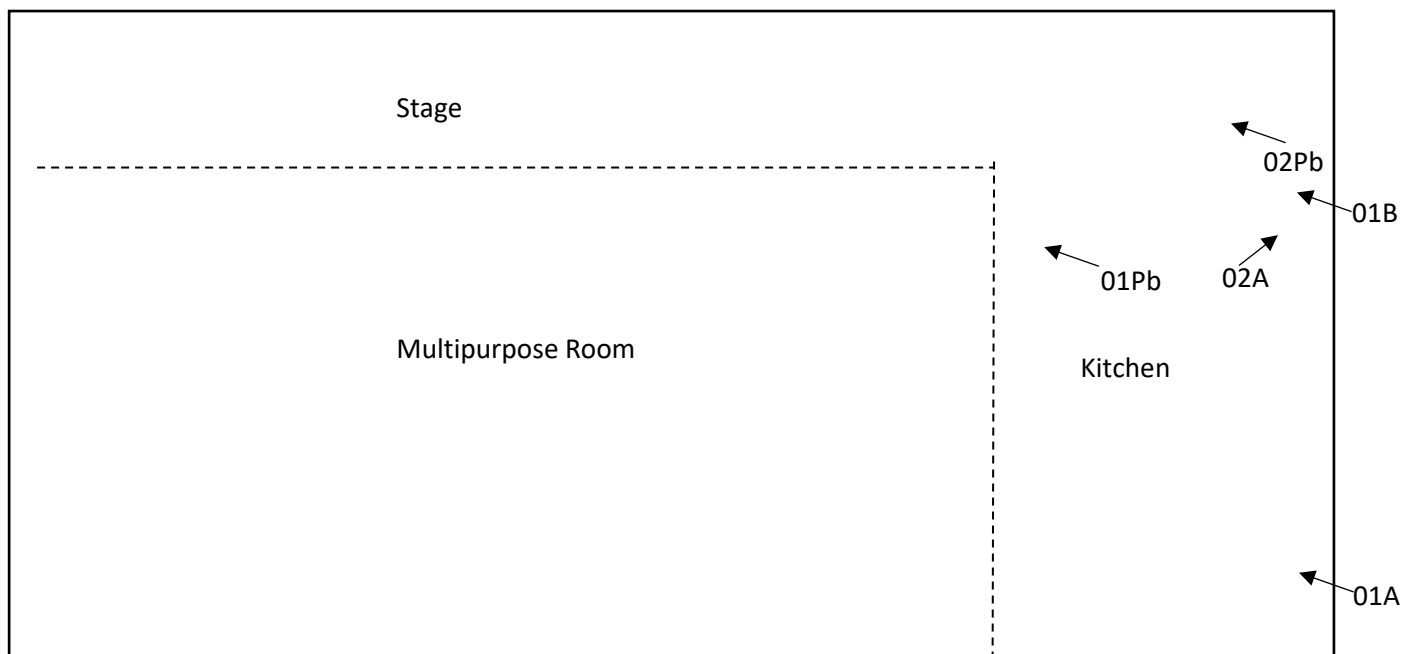
 California Department of Public Health
 Childhood Lead Poisoning Prevention Branch Reports
 850 Marina Bay Parkway, Building P, Third Floor
 Richmond, CA 94804-6403
 Fax: (510) 620-5656

Appendix C

Sample Location Drawing

Site Name:	Vinland Elementary School
Address:	4666 N Maple Ave, Fresno, CA
Date:	November 4, 2020

Not Drawn to Scale



Appendix D

Certifications of Personnel and Laboratories

DEPARTMENT OF INDUSTRIAL RELATIONS
Division of Occupational Safety and Health
Asbestos Certification & Training Unit

1750 Howe Avenue, Suite 460

Sacramento, CA 95825

(916) 574-2993 Office <http://www.dir.ca.gov/dosh/asbestos.html> acru@dir.ca.gov



909166643C

451

Forensic Analytical Consulting Services, Inc.
Eric S Farnsworth
371 E. Bullard Avenue, Suite 109
Fresno CA 93710

September 15, 2020

Dear Certified Asbestos Consultant or Technician:

Enclosed is your certification card. **To maintain your certification, you must abide by the rules printed on the back of the certification card.**

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days before the expiration date shown on your card. [8 CCR 341.15(h)(1)].

Please hold and do not send copies of your required AHERA refresher renewal certificates to our office until you apply for renewal of your certification.

Certificates must be kept current if you are actively working as a CAC or CSST. The grace period is only for those who are not actively working as an asbestos consultant or site surveillance technician.

Please notify our office via U.S. Postal Service or other carrier of any changes in your mailing or work address within 15 days of the change.

Sincerely,

Jeff Ferrell
Senior Safety Engineer

Attachment: Certification Card

cc: File



Renewal – Card Attached (Revised 06/2020)

HMS Training

a division of Forensic Analytical Consulting Services

This is to confirm that

Eric Farnsworth

Has attended the four-hour

AHERA Refresher Course for Asbestos Inspectors

And has completed the requisite training and passed the exam for

asbestos accreditation under TSCA Title II

July 8, 2020

Certificate Number: HMSBIR824

Valid Until: July 8, 2021

Cal/OSHA Approval Number: CA-025-06



A handwritten signature in black ink, appearing to read 'Michael C. Sharp'.

Michael C. Sharp - Training Director
HMS/Forensic Analytical Consulting Services
207 McHenry Ave. Modesto, CA 95354
(800) 677-1483



STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC HEALTH



LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL:



Eric Farnsworth

CERTIFICATE TYPE:

Lead Inspector/Assessor
Lead Sampling Technician

NUMBER:

LRC-00005578
LRC-00000970

EXPIRATION DATE:

2/18/2021
5/22/2020

Disclaimer: This document alone should not be relied upon to confirm certification status. Compare the individual's photo and name to another valid form of government issued photo identification. Verify the individual's certification status by searching for Lead-Related Construction Professionals at www.cdph.ca.gov/programs/clppb or calling (800) 597-LEAD.

HMS Training

a division of Forensic Analytical Consulting Services

This is to confirm that

Jeremy Noyola

Has attended the twenty-four hour

AHERA Course for Asbestos Inspectors

And has completed the requisite training and passed the exam for

asbestos accreditation under TSCA Title II

March 2-4, 2020

Certificate Number: HMSBII173

Valid Until: March 4, 2021

Cal/OSHA Approval Number: CA-025-05



A handwritten signature in black ink, appearing to read 'Michael C. Sharp'.

Michael C. Sharp - Training Director
HMS/Forensic Analytical Consulting Services
207 McHenry Ave. Modesto, CA 95354
(800) 677-1483



STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC HEALTH



LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL:



Jeremy Noyola

CERTIFICATE TYPE:

Lead Sampling Technician

NUMBER:

LRC-00005788

EXPIRATION DATE:

2/28/2021

Disclaimer: This document alone should not be relied upon to confirm certification status. Compare the individual's photo and name to another valid form of government issued photo identification. Verify the individual's certification status by searching for Lead-Related Construction Professionals at www.cdph.ca.gov/programs/clppb or calling (800) 597-LEAD.

DEPARTMENT OF INDUSTRIAL RELATIONS
Division of Occupational Safety and Health
Asbestos Certification & Training Unit

2424 Arden Way, Suite 495

Sacramento, CA 95825-2417

(916) 574-2993 Office <http://www.dir.ca.gov/dosh/asbestos.html> acru@dir.ca.gov



005174633C

339

June 08, 2020

Christopher J Chipponeri
1401 Louise Avenue
Modesto CA 95350

Dear Certified Asbestos Consultant or Technician:

Enclosed is your certification card. **To maintain your certification, you must abide by the rules printed on the back of the certification card.**

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days before the expiration date shown on your card. [8 CCR 341.15(h)(1)].

Please hold and do not send copies of your required AHERA refresher renewal certificates to our office until you apply for renewal of your certification.

Certificates must be kept current if you are actively working as a CAC or CSST. The grace period is only for those who are not actively working as an asbestos consultant or site surveillance technician.

Please notify our office via U.S. Postal Service or other carrier of any changes in your mailing or work address within 15 days of the change.

Sincerely,

Jeff Ferrell
Senior Safety Engineer

Attachment: Certification Card

cc: File

Renewal – Card Attached 08/2019



HMS Training

a division of Forensic Analytical Consulting Services

This is to confirm that

Chris Chipponeri

Has attended the four-hour

AHERA Refresher Course for Asbestos Inspectors

And has completed the requisite training and passed the exam for

asbestos accreditation under TSCA Title II

September 9, 2020

Certificate Number: HMSBIR851

Valid Until: September 9, 2021

Cal/OSHA Approval Number: CA-025-06



A handwritten signature in black ink, appearing to read 'Michael C. Sharp'.

Michael C. Sharp - Training Director
HMS/Forensic Analytical Consulting Services
207 McHenry Ave. Modesto, CA 95354
(800) 677-1483



STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC HEALTH



LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL:



Chris Chipponeri

CERTIFICATE TYPE:

Lead Inspector/Assessor

NUMBER:

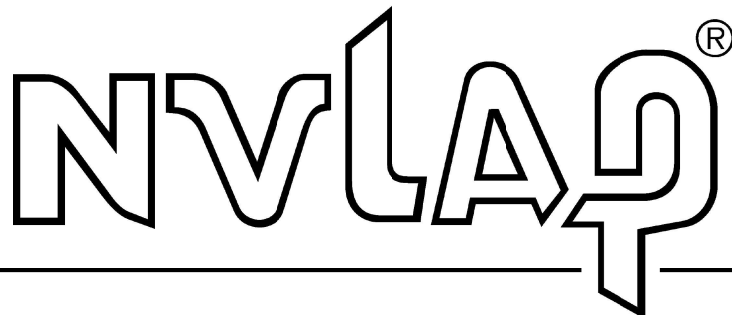
LRC-00000782

EXPIRATION DATE:

6/20/2021

Disclaimer: This document alone should not be relied upon to confirm certification status. Compare the individual's photo and name to another valid form of government issued photo identification. Verify the individual's certification status by searching for Lead-Related Construction Professionals at www.cdph.ca.gov/programs/clppb or calling (800) 597-LEAD.

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 101459-0

SGS Forensic Laboratories

Hayward, CA

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

Asbestos Fiber Analysis

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2020-07-01 through 2021-06-30

Effective Dates



A handwritten signature in blue ink, reading "Dana S. Laman".

For the National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

SGS Forensic Laboratories

3777 Depot Road, Suite 409

Hayward, CA 94545-2761

Mr. Steven Takahashi

Phone: 310-294-4365 Fax: 310-764-1136

Email: steven.takahashi@sgs.com

<http://www.falaboratories.com>

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 101459-0

Bulk Asbestos Analysis

Code

Description

18/A01

EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples

18/A03

EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

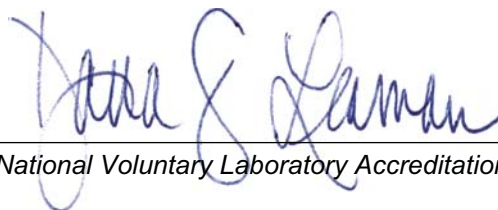
Airborne Asbestos Analysis

Code

Description

18/A02

U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.



For the National Voluntary Laboratory Accreditation Program



AIHA Laboratory Accreditation Programs, LLC

acknowledges that

SGS Forensic Laboratories

3777 Depot Rd, Suite 409, Hayward, CA 94545-2761

Laboratory ID: LAP-101762

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, General Requirements for the Competence of Testing and Calibration Laboratories in the following:

LABORATORY ACCREDITATION PROGRAMS



INDUSTRIAL HYGIENE

Accreditation Expires: December 01, 2020



ENVIRONMENTAL LEAD

Accreditation Expires: December 01, 2020



ENVIRONMENTAL MICROBIOLOGY

Accreditation Expires: December 01, 2020



FOOD

Accreditation Expires:



UNIQUE SCOPES

Accreditation Expires: December 01, 2020

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached Scope of Accreditation. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached Scope of Accreditation. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

Elizabeth Bair

Elizabeth Bair
Chairperson, Analytical Accreditation Board

Cheryl O. Morton

Cheryl O Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC

Revision 17: 09/11/2018

Date Issued: 08/02/2019

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Right Perspective
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