



Ventura County Community College District

PURCHASING DEPARTMENT

DATE: September 15, 2023
TO: All Bidders
FROM: Renée Knight, Purchasing Specialist
SUBJECT: Addendum 1 – Bid #658, Oxnard College Campuswide HVAC Project

This addendum is hereby made part of the Contract Documents to the same extent as though it was originally included therein and takes precedence over the original documents. The outdated pages must be replaced with any updated and/or changed pages when submitting your bid. Acknowledge receipt of all addenda on the Bid Form.

The bid opening remains on **Thursday, September 21, 2023**. Bids must be received no later than **4:00 p.m.** at 761 E Daily Drive, Suite 200, Camarillo, CA 93010. Properly mark the outside of the exterior envelope on your submitted bid with the Bid Number and Name according to the requirements stated in the bid packet directions.

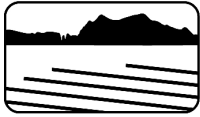
If you choose not to participate in this particular bid, please sign the Bid Proposal stating “no bid” and email it (rknight@vcccd.edu) or fax it back to me at 805-652-7700.

It is the responsibility of the Bidder to verify that their proposal has been received by the VCCCD Purchasing Department prior to the opening date. Verification of receipt can be made through the listed Purchasing Specialist.

No questions were received prior to the deadline of September 11, 2023 3:00pm. No further questions will be accepted.

The following information is offered by the District and the Engineer of Record to add supplemental information.

End of Section



AE Group

Mechanical Engineers

Ventura, California 93001-2925

(805) 653-1722 fax (805) 653-7260

email: hugh@aegroupme.com

Bid#658: Oxnard College Campuswide HVAC Project
Addendum #1

1. See Attached Electrical Plans for Shop HVAC – Sheets E100, E200, E420.
2. Reference sheet M2.0 - Original Child Care mechanical floor plans for duct cleaning and balancing purposes only.
3. Reference Sheet M3.0 - Original Gym mechanical floor plans for duct cleaning and balancing purposes only.
4. Reference M4.0 - Middle High School Duct Sketch for duct cleaning.
5. Reference Sheet M2.0 – Existing Child Care HVAC Unit Replacement.
Remove existing UV Light Systems from existing units and reinstall in new units – typical of 6 package rooftop units.
6. Reference Sheet M3.0 – Existing Gym HVAC unit replacement.
Remove existing UV Light Systems from existing units and reinstall in new units – typical of 4 package rooftop units.
7. Reference Sheet M4.0 – Include UV Lights as a factory option. Typical 16 units.
8. Reference Sheet M5.0 & M6.0– All refrigerant pipe shall be rigid type ACR with brazed fittings. Pipe shall be installed straight, true, level and parallel to building elements. Interior insulation shall have miter glued joints at elbows and tees neatly installed. Exterior jacketing shall be installed in a neat professional manner with proper laps and sealed. Piping shall be properly supported with insulation inserts and shields.
9. Reference Sheets M6.0, M7.0, M8.0, & M9.0. All refrigerant piping at roof and equipment rooms shall be rigid type ACR with brazed fittings. Pipe shall be installed straight, true, level, and parallel to building elements. Interior insulation shall have miter glued joints at elbows and tees neatly installed. Exterior jacketing shall be installed in a neat professional manner with proper laps and sealed. Line sets with proper thickness insulation may be installed at concealed attic locations. Piping shall be properly supported with insulation inserts and shields.
10. Reference Sheet M1.1 & M2.0 – Gym. Revise HP-1& HP-3 to the following schedule –
York XYE06. 5 ton nominal capacity. With factory economizer, single enthalpy control, Pelican Pearl economizer control, power exhaust. Coated condenser and evaporator. Curb adapter for HP-3.
Electrical Data – 208/3/60, MCA 15.1, MOCP 20 Amps.

Revise Sheet M1.1 & M2.0 - Gym. Revise HP-2

York XYE06. 5 ton nominal capacity. With factory economizer, single enthalpy control, Pelican Pearl economizer control, power exhaust. Coated condenser and evaporator.

Electrical Data – 208/3/60, MCA 15.1, MOCP 20 Amps.

11. Contractor shall file any manufacturer's related warranty registration and provide copies and date of registration to owner.

Attachments

E-100, E-200, E-420

Original Gym Mechanical Floor Plan

Original Child Care Mechanical Floor Plan

Middle High School Duct Sketch M4.0

SYMBOLS

SYMBOLS

[illegible]

PROVIDE POWER TO NEW HVAC EQUIPMENT TO SHOP AREA
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LIST OF APPLICABLE CODES

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR	2022 CALIFORNIA GREEN BUILDING CODE (CECB), PART 1, TITLE 24 CCR
2022 CALIFORNIA BUILDING CODE (CBC), PART 1, TITLE 24 CCR	2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR	2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR	TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR	<u>APPLICABLE STANDARDS</u>
2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 CCR	FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS, REFER TO CBC CHAPTER 35 AND CFC CHAPTER 80.
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR	

MOUNTING HEIGHT OVER OBSTRUCTION

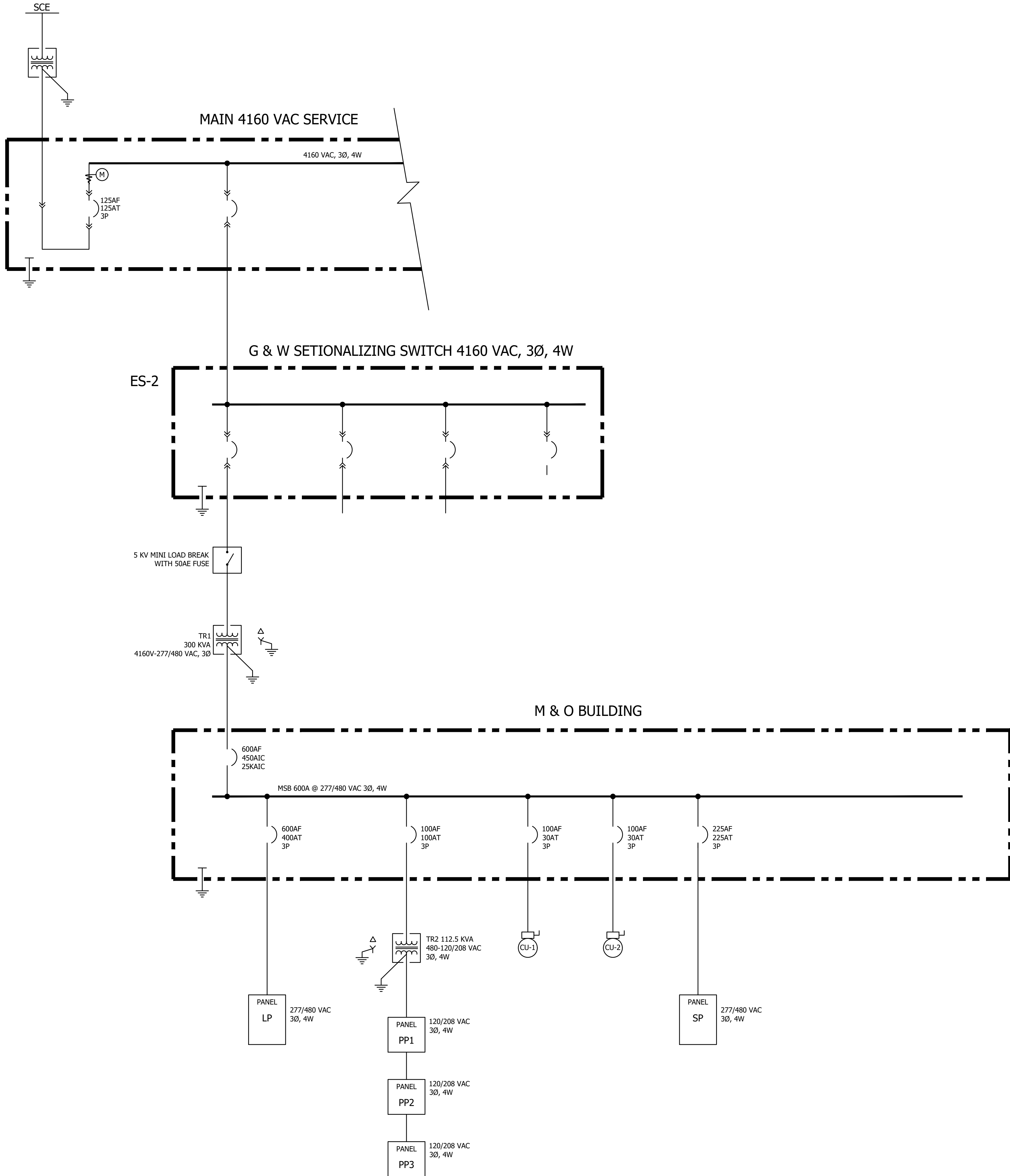
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SAFARA COUNTY COMMUNITY COLLEGE DISTRICT
OXNARD COLLEGE
HVAC RETROFIT
 4000 SOUTH ROSE AVENUE - OXNARD, CALIFORNIA

DRAWN: D.S.	CHECKED: K.L.
DATE: 8-2-2023	SCALE: AS NOTED
PROJECT NUMBER: 23-756	

GENERAL NOTES, ABBREVIATIONS, SYMBOLS & DRAWING LIST

DRAWING NUMBER : **E100**



EXISTING ELECTRICAL SINGLE LINE

SCALE: NONE

1
- E420

LUCCI & ASSOCIATES, INC.
CONSULTING ELECTRICAL ENGINEERS
3251 CORTI MALPASO, #511
CAMARILLO, CA 93012-8094
(805) 389-6500 FAX (805) 389-6519
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**VENTURA COUNTY COMMUNITY COLLEGE DISTRICT
OXNARD COLLEGE**
HVAC RETROFIT
4000 SOUTH ROSE AVENUE - OXNARD, CALIFORNIA

				REVISIONS	
NO	DATE	BY	DESCRIPTION		
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

DRAWN: D.S. CHECKED: K.L.
DATE: 8-2-2023 SCALE: AS NOTED
PROJECT NUMBER: 23-756

EXISTING ELECTRICAL
SINGLE LINE & PANEL
SCHEDULE

DRAWING
NUMBER : **E200**

TIME: 4:31 pm

DATE: 3 August 2023

PATHNAME: D:\ACASUP\TEMP\publish_17968

DRAWING FILENAME: 23-756 E420

DRAFTER: CM02

08/01/2023 12:12
Author: CM02, Title: Electrical Plan for Mechanical Equipment
Date: 08/01/2023, Time: 12:12
Path: D:\ACASUP\TEMP\publish_17968
File: 23-756 E420.dwg
Plot: 08/01/2023 12:12

EXISTING PANEL																			
PANEL NUMBER		LP		VOLTAGE		480/277		PHASE		3		WIRE		4		<input type="checkbox"/> NEMA 1 <input type="checkbox"/> COPPER BUSS		<input type="checkbox"/> MAIN CIRCUIT BREAKER <input type="checkbox"/> 100	
SOURCE		MSB-2		A.I.C.		42,000										<input type="checkbox"/> MAIN LUGS ONLY		<input type="checkbox"/> SURFACE MOUNTING	
PANEL LOCATION		ELECTRICAL ROOM		BUS AMPERE RATING		225													
L	C	M	P	W	R	1	2	3	4	5	6	7	8	9	10	11	12	13	14
CIRCUIT DESCRIPTION		LOAD(VA)		BRKR		POLE		AMP		OCT		PHASE A B C		OCT		BRKR		LOAD(VA)	
ELECTRICAL ROOM LIGHTING		720		1		20		1		2		20		1		482		-	
SHOP LIGHTING		3000		1		20		3		4		20		1		-		-	
CANOPY LIGHTING		252		1		20		5		6		20		1		-		-	
FRONT LIGHTS / EXIT SIGN		382		1		20		7		8		20		1		-		-	
MAINTENANCE LIGHTING		350		1		20		9		10		20		1		-		-	
OFFICE / RESTROOM LIGHTING		1000		1		20		11		12		20		1		-		-	
CARPENTER LIGHTING		378		1		20		13		14		20		1		-		-	
ROOM #301 - XXX LIGHTING		1248		1		20		15		16		20		1		-		-	
WAREHOUSE LIGHTING		3000		1		20		17		18		20		1		-		-	
MEZZANINE LIGHTING		3000		1		20		19		20		20		1		-		-	
BUILDING LIGHTING		2340		1		20		21		22		20		1		-		-	
SPACE		-		-		-		-		-		-		-		-		-	
TOTALS		4822		7830		17918										8482		8000	
L.C.L. VOLT AMPS:		5644.3		PHASE A		5221		PHASE B		1584.8		PHASE C		1978.3					
TOTAL VOLT AMPS:		63836		PHASE A		18525		PHASE B		17415		PHASE C		27896					
TOTAL AMPS:		77		PHASE A		67		PHASE B		63		PHASE C		101					

EXISTING PANEL																			
PANEL NUMBER		PP3		VOLTAGE		208/120		PHASE		3		WIRE		4		<input type="checkbox"/> NEMA 1 <input type="checkbox"/> COPPER BUSS		<input type="checkbox"/> MAIN CIRCUIT BREAKER <input type="checkbox"/> 100	
SOURCE		PP2		A.I.C.		22,000										<input type="checkbox"/> MAIN LUGS ONLY		<input type="checkbox"/> SURFACE MOUNTING	
PANEL LOCATION		ELECTRICAL ROOM		BUS AMPERE RATING		225													
L	C	M	P	W	R	1	2	3	4	5	6	7	8	9	10	11	12	13	14
CIRCUIT DESCRIPTION		LOAD(VA)		BRKR		POLE		AMP		OCT		PHASE A B C		OCT		BRKR		LOAD(VA)	
UPS		3000		1		20		1		2		20		1		0		-	
FACP		3000		1		20		3		4		20		1		0		0	
CAN LIGHTS		300		1		20		5		6		20		1		0		0	
ELECTRICAL ROOM OUTLETS		360		1		20		7		8		20		1		0		0	
SPACE		0		1		20		9		10		20		1		0		0	
EXTERIOR RECEPTACLE		0		1		20		11		12		20		1		0		0	
SPACE		0		1		20		13		14		20		1		0		0	
TOTALS		3300		3360		1040										1000		2000	
L.C.L. VOLT AMPS:				PHASE A		4300		PHASE B		5360		PHASE C		3040					
TOTAL VOLT AMPS:		12700		PHASE A		4300		PHASE B		5360		PHASE C		3040					
TOTAL AMPS:		35		PHASE A		36		PHASE B		45		PHASE C		25					

SHEET NOTES:

1. FIELD VERIFY MECHANICAL EQUIPMENT LOCATIONS.
2. SEE ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT FOR ELECTRICAL REQUIREMENTS.
3. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES.
4. THE LOCATION OF ALL ROOF PENETRATIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL, MECHANICAL, AND STRUCTURAL DRAWINGS.
5. PROVIDE ROOF JACKS AND PROPERLY SEAL ALL ROOF PENETRATIONS TO A LEAK FREE CONDITION.
6. THE FINAL CONNECTIONS TO EQUIPMENT SHALL BE LIQUIDTIGHT FLEXIBLE METAL CONDUIT. INSTALL WITH ENOUGH SLACK TO PRECLUDE VIBRATION TRANSMISSION. SUPPORT SHALL BE PER N.E.C. ARTICLE 351-8
7. PROVIDE WEATHERPROOF AND EXTERIOR RATED DEVICES IN ALL EXTERIOR AREAS.
8. PROVIDE ALL DEVICES AS REQUIRED ON MECHANICAL CONTRACTOR SHOP DRAWINGS AND APPROVED SUBMITTALS.
9. NO CONDUIT/FEEEDER SHALL BE PERMITTED ON THE ROOF WITH CRIPPLES. ALL FEEDERS SHALL BE RUN BENEATH THE ROOF.
10. ALL DISCONNECTS SHALL BE MOUNTED ON UNISTRUT ON AH UNIT.
11. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL ELECTRICAL DEVICES PRIOR TO BID, ROUGH-IN & INSTALLATION.
12. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
13. EACH DISCONNECT OR STARTER AND A SPARE SET OF FUSES SHALL BE CONTRACTOR PROVIDED.

KEY NOTES:

- 1 WP GFCI RECEPTACLE FED FROM PP3-23.
- 2 DISCONNECT AND FEEDER PER ATTACHED SCHEDULE.

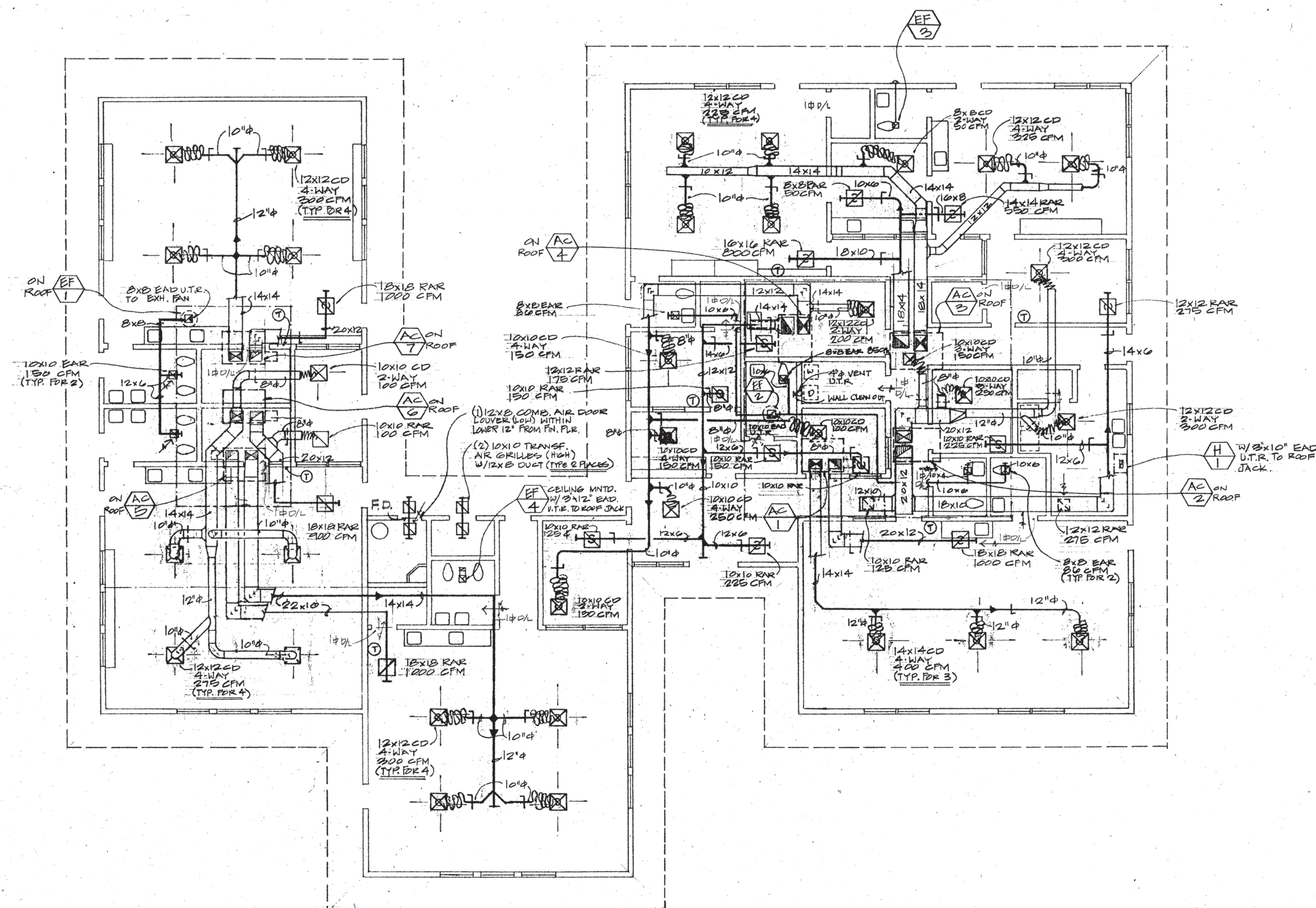
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VENTURA COUNTY COMMUNITY COLLEGE DISTRICT
OXNARD COLLEGE

HVAC RETROFIT
4000 SOUTH ROSE AVENUE - OXNARD, CALIFORNIA

ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT (NEMA 3R FOR OUTDOOR EQUIPMENT)									
TAG #	DESCRIPTION	MCA (A)	MOCP (A)	VOLTAGE	DISCONNECT	FUSE SIZE/TYPE	PANEL/CIRCUIT NO.	FEEDER	REMARKS
OU1	OUTDOOR UNIT 1	18	20	480V/3Ø	480V/20A/3P	NON FUSED	LD-38-40-42	3/4"C - 3#12 & 1#12 GND	WIRING PER MECH MFG
IU1A	SPLIT INDOOR UNIT 1A	.54	15	208V/1Ø	240V/15A/2P	NON FUSED	PP3-32-34	3/4"C - 2#12 & 1#12 GND	WIRING PER MECH MFG
IU1B	SPLIT INDOOR UNIT 1B	.54	15	208V/1Ø	240V/15A/2P	NON FUSED	PP3-32-34	3/4"C - 2#12 & 1#12 GND	WIRING PER MECH MFG
IU2	SPLIT INDOOR UNIT 2	.7	15	208V/1Ø	240V/15A/2P	NON FUSED	PP3-32-34	3/4"C - 2#12 & 1#12 GND	WIRING PER MECH MFG
OU2	OUTDOOR UNIT 2	19.4	25	480V/3Ø	480V/20A/3P	25A FRS-RK	LP-32-34-36	3/4"C - 2#12 & 1#12 GND	WIRING PER MECH MFG
IU3A	INDOOR UNIT 3A	.54	15	208V/1Ø	240V/15A/2P.	NON FUSED	PP3-36-38	3/4"C - 2#12 & 1#12 GND	WIRING PER MECH MFG
IU3B	INDOOR UNIT 3B	.54	15	208V/1Ø	240V/15A/2P.	NON FUSED	PP3-36-38	3/4"C - 2#12 & 1#12 GND	WIRING PER MECH MFG
IU4A	INDOOR UNIT 4A	.7	25	208V/1Ø	240V/15A/2P.	NON FUSED	PP3-36-38	3/4"C - 2#12 & 1#12 GND	WIRING PER MECH MFG
IU4B	INDOOR UNIT 4B	.7	25	208V/1Ø	240V/15A/2P.	NON FUSED	PP3-36-38	3/4"C - 2#12 & 1#12 GND	WIRING PER MECH MFG
OU3	OUTDOOR UNIT 3	13.5	15	208V/1Ø	240V/15A/2P.	NON FUSED	PP3-40-42	3/4"C - 2#12 & 1#12 GND	WIRING PER MECH MFG
IU5	INDOOR UNIT 5	FED FROM OU3	FED FROM OU3	FED FROM OU3	FED FROM OU3	FED FROM OU3	FED FROM OU3	FED FROM OU3	(FED FROM OU3) WIRING PER MECH MFG
* ALL FUSES BY BUSSMAN AND SHALL BE SIZED PER MANUFACTURERS RECOMMENDATION.									



MECHANICAL FLOOR PLAN

SCALE 1/8:1-0

TITLE 24 & 1988 US

Department of Civil Service
Office of the Staff Assistant

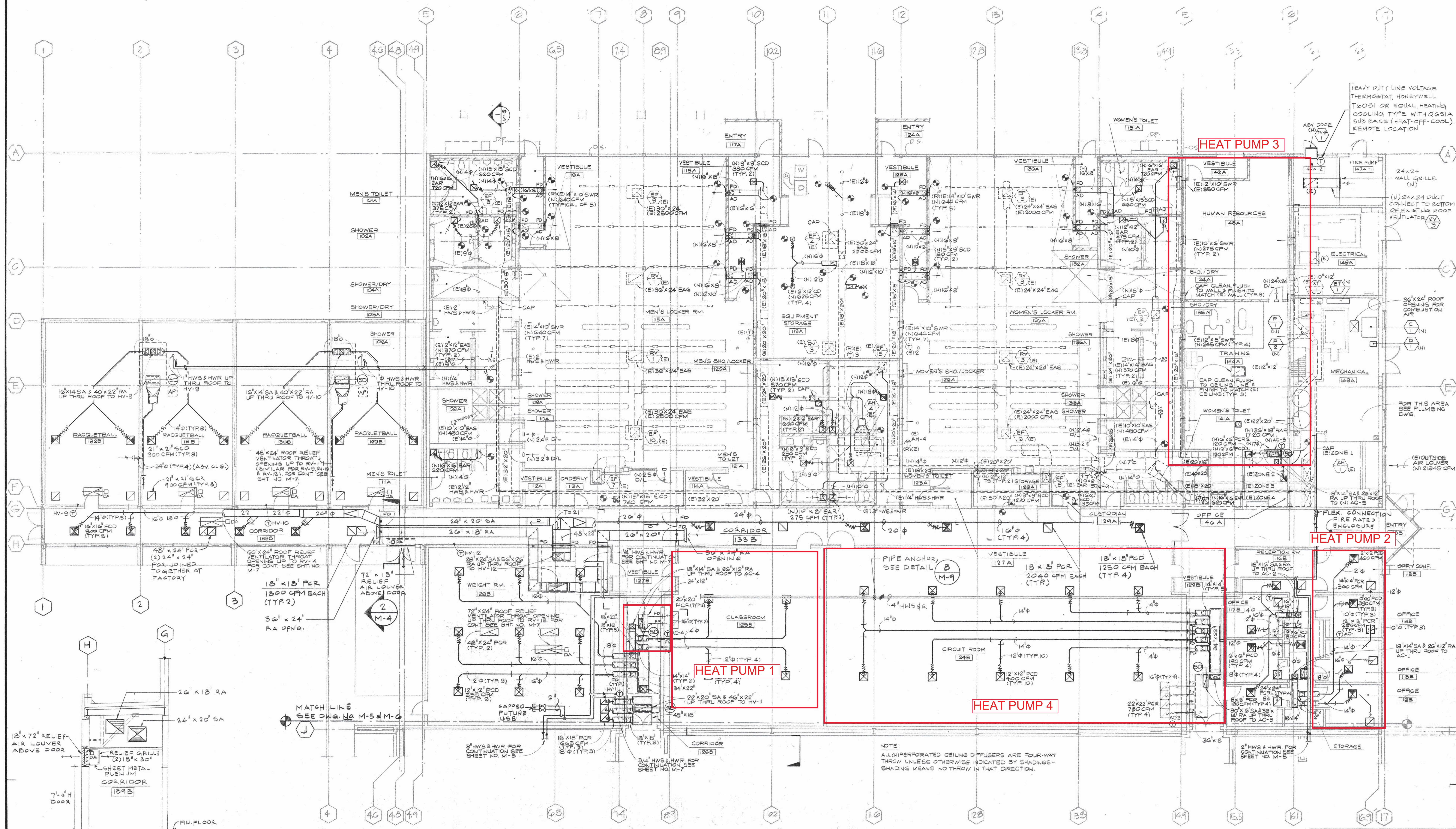
OCT 15 1990

Structural Safety Section
Appl. # A 539564
Backchecked By J.P./L.A.

APPROVED

SEP 20 1990

STATE FIRE MARSHAL
SOUTHERN REGION



SECTION
1/4" = 1'-0"

2
M-4

AREA 'A' GROUND FLOOR RENOVATION & ADDITION FLOOR PLAN - HVAC

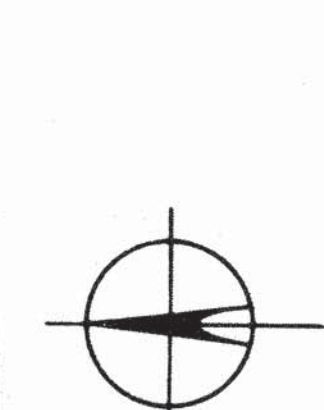
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5 0 10 20
1/8" = 1'-0" GRAPHIC SCALE

ACCESS COMPLIANCE UNIT

STATE FIRE MARSHALL

CONSULTANT / ENGINEER OF RECORDS



KEY PLAN

OFFICE OF THE STATE ARCHITECT

DATE: JUN 1 1988

DESIGNED BY: [Signature]

CHECKED BY: [Signature]

APPROVED BY: [Signature]

DATE: SEP 19 1990

REVISION DATE DESCRIPTION DFTM

8/7/1991 O.S.A./STATE FIRE MARSHALL/ ACCESS COMPLIANCE/ REVIEW COMMENTS

DRAWN BY: J. DEON

CHECKED BY: T. LE

APPROVED BY: [Signature]

DATE: SEP 19 1990

JOB NO. 1081.01

SHEET NO. M-4

Daniel Mann Johnson & Mendenhall
3250 Wilshire Boulevard
Los Angeles, California 90010
Telephone: 213/281-3663

Planning
Architecture
Engineering
Systems
Economics

DMJM

PREPARED FOR

OXNARD COLLEGE
VENTURA COUNTY COMMUNITY COLLEGE DISTRICT

JOB TITLE

PHYSICAL EDUCATION COMPLEX

SHEET TITLE

AREA 'A' GROUND FLOOR RENOVATION AND ADDITION FLOOR PLAN - HVAC

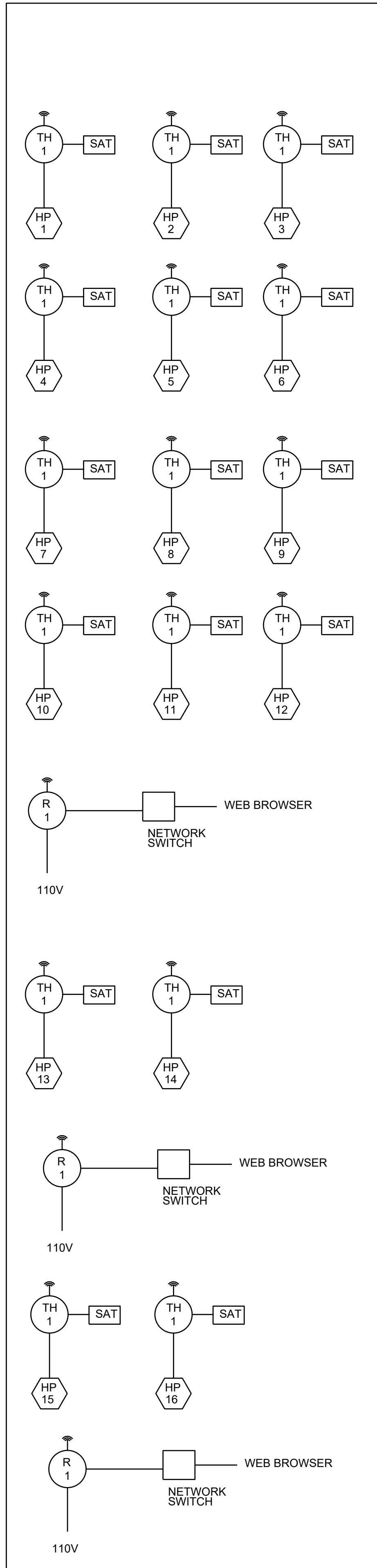
DATE

3-31-1993

NO. 117894

DATE OF ISSUE

SEP 19 1990



HP 13

HP 14

HP 15

HP 16

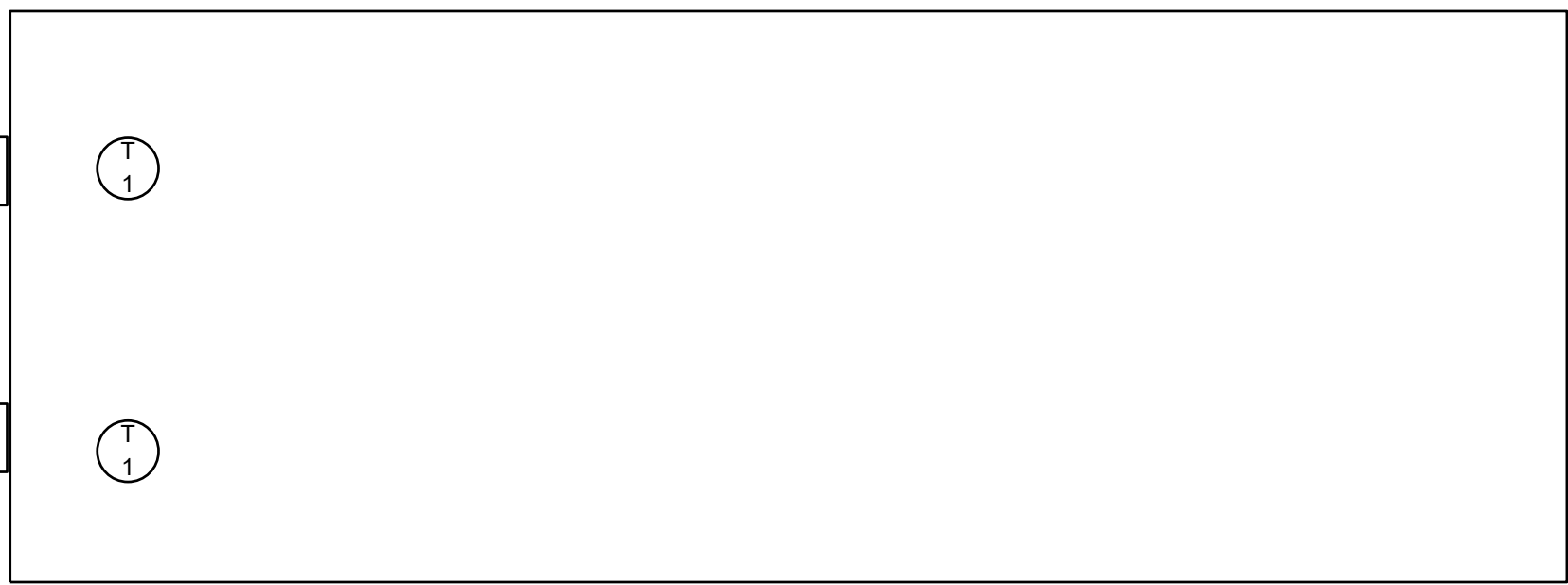
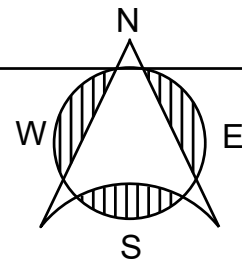
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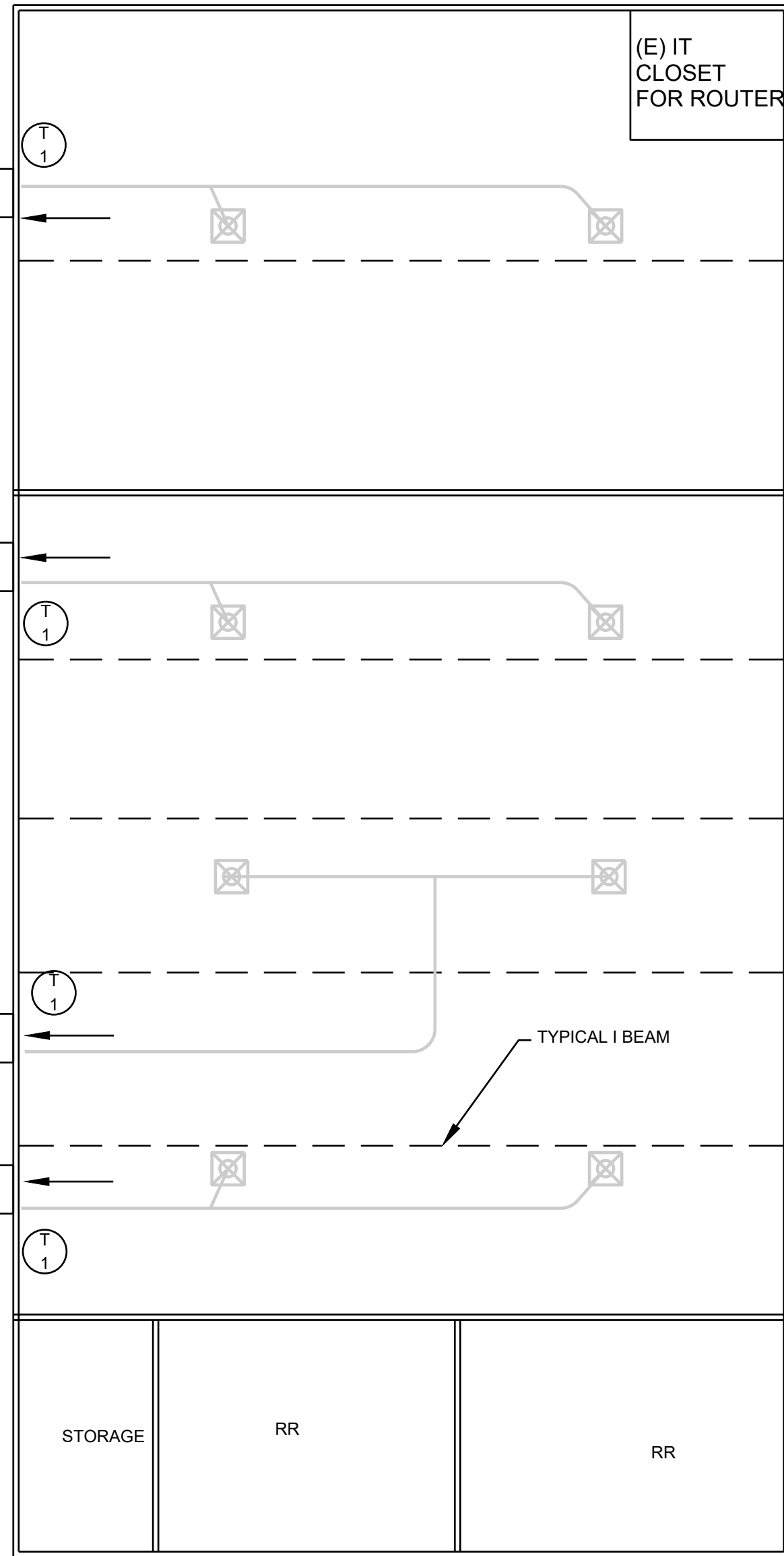
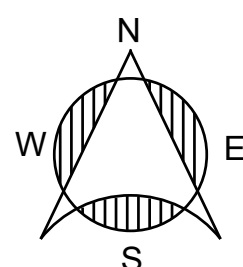
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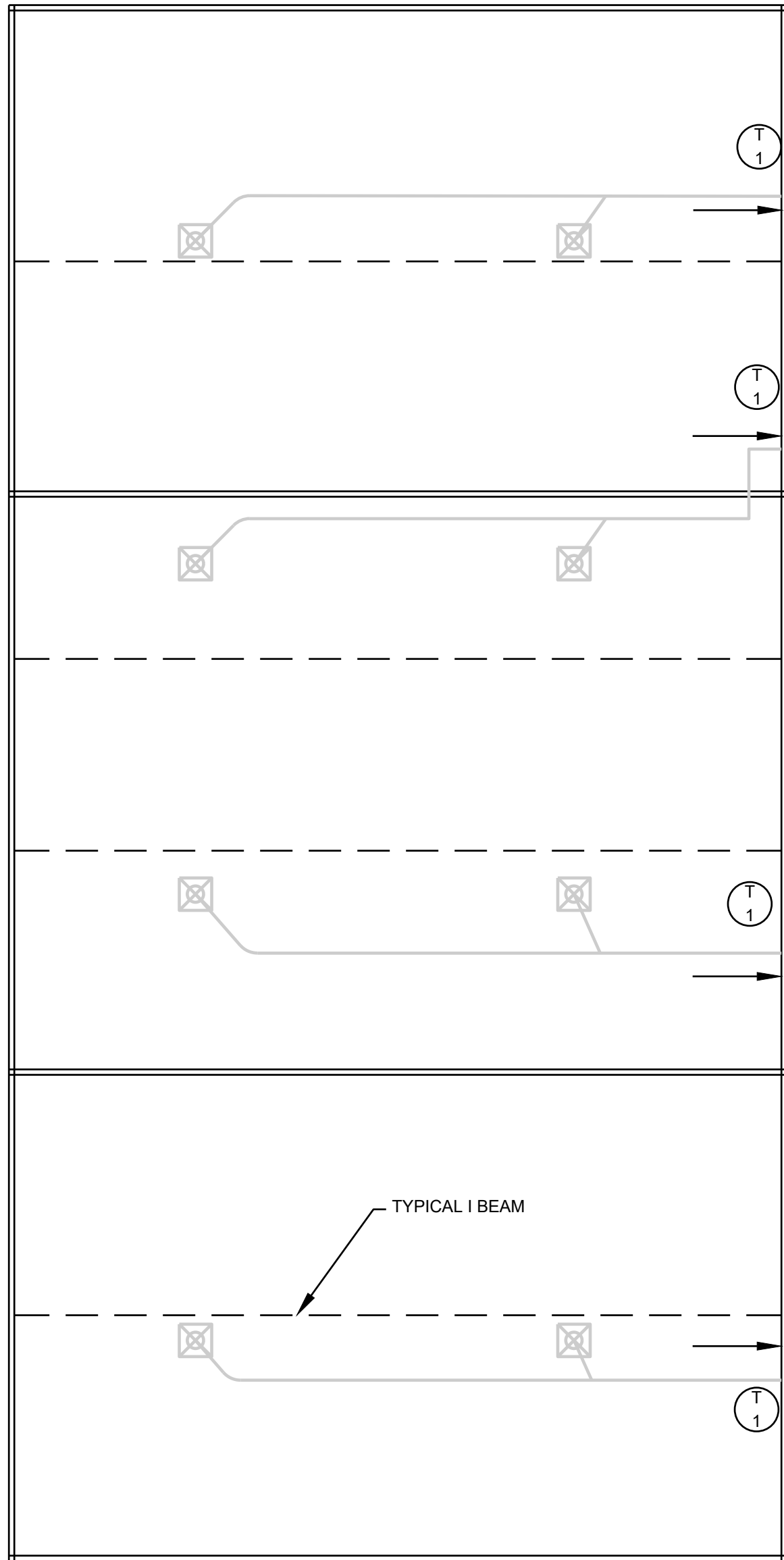
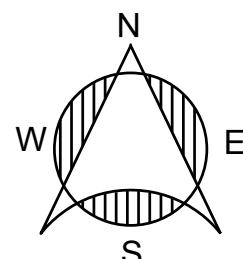
2 M3.0 AUTO TECH BUILDING
SCALE: 1"=8'0"



3 M3.0 RADIO BUILDING
SCALE: 1"=8'0"



1 M3.0 MIDDLE HIGH SCHOOL
SCALE: 1"=8'0"



- SCOPE OF WORK
1. DEMO (E) WALL UNITS AND RECYCLE REFRIGERANT PER EPA GUIDELINES
 2. DISPOSE OF OLD MARVAIR AND BARD UNITS. RECYCLE TO THE GREATEST EXTENT POSSIBLE.
 3. INSTALL NEW UNITS WITH ALL NEEDED HARDWARE. RECONNECT TO EXISTING ELECTRICAL WITH NEW WEATHER-TIGHT CONDUIT AND WIRE. RE-USE EXISTING DISCONNECTS.
 4. RE-CONNECT TO (E) DUCTING. CLEAN DUCTING AND DIFFUSERS PER SPECIFICATIONS
 5. BALANCE ECONOMIZER TO MINIMUM POSITION OF 230 CFM.
 6. CALIBRATE AND VERIFY FUNCTION OF CO2 SENSOR CONTROL
 7. INSTALL THREE ROUTERS AT IT CONNECTIONS WITH PATCH CABLE AND POWER.
 8. SET-UP PELICAN SYSTEM FOR WEB ACCESS. COORDINATE WITH CAMPUS I.T. DEPT.

AE Group
Mechanical Engineers
838 East Front Street
Ventura, California 93001-2925
(805) 653-1722
hugh@aegroupme.com



VENTURA COUNTY COMMUNITY COLLEGE DISTRICT
OXNARD COLLEGE
HVAC EQUIPMENT RETROFIT
4000 SOUTH ROSE AVENUE - OXNARD, CALIFORNIA

REVISIONS				DESCRIPTION
NO	DATE	BY		

DRAWN: HM CHECKED: PW
DATE: 8-03-2023 SCALE: AS NOTED
PROJECT NUMBER:

WALL MOUNTED
HVAC PLAN

DRAWING
NUMBER : M4.0