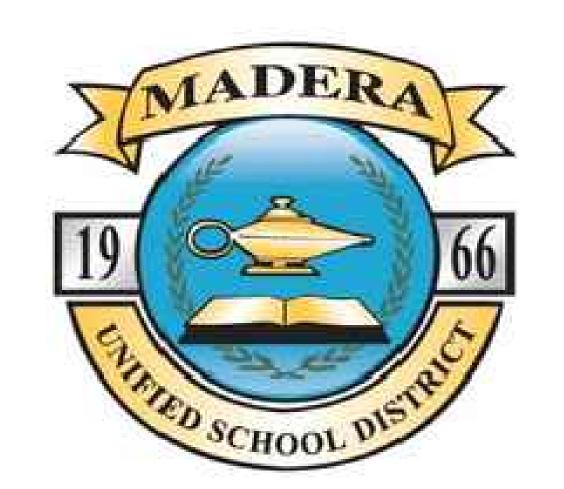


HVAC IMPROVEMENTS

MADERA SOUTH HIGH SCHOOL MADERA UNIFIED SCHOOL DISTRICT

705 W PECAN AVE, MADERA, CA 93637

PTN: 65243-160



DSA FILE NO: 20-H3

GENERAL

705 W PECAN AVE, MADERA, CA 93637

PROJECT ADDRESS:

PROJECT DESCRIPTION

INSTALLATION, DUCTWORK, GAS PIPING, HYDRONIC PIPING ELECTRICAL PANELS, ELECTRICAL POWER, AND CONTROLS.

ENFORCING AGENCY

DIVISION OF THE STATE ARCHITECT / OFFICE OF REGULATION SERVICES (DSA / ORS), SACRAMENTO OFFICE AMERICAN WITH DISABILITIES ACT AND THE CALIFORNIA TITLE 24 ACCESSIBILITY GUIDELINES

FLOOD ZONE INFORMATION

FLOOD ZONE DESIGNATION: ZONE X AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE OF FLOOD. FLOOD INSURANCE RATE MAP (FIRM) PANEL DESIGNATION: 06029C1817E EFFECTIVE DATE OF (FIRM): SEPTEMBER 26, 2008 BASE FLOOD ELEVATION (BFE): NOT REQUIRED APPLICABLE COMMUNITY ORDINANCE SECTION: NOT REQUIRED

DEFERRED SUBMITTALS

MADERA UNIFIED SCHOOL DISTRICT

EMAIL: ROSALINDCOX@MADERAUSD.ORG

NET POSITIVE CONSULTING ENGINEERS

CONTACT: JONATHAN SCHLUNDT, PE EMAIL: JSCHLUNDT@NPCENG.COM

PROJECT INFORMATION

1902 HOWARD RD,

MADERA, CA 93637 (559) 675-4548

CONTACT: ROSALIND COX

MECHANICAL ENGINEER

CLOVIS, CA 93611 (559) 940-7293

LICENSE #: M35955

7535 N. PALM. SUITE 201

CONTACT: AYA SHITANISHI

ELECTRICAL ENGINEER REFIK ELECTRICAL ENGINEERS

CONTACT: STEFFAN KIFER, PE

EMAIL: STEFFANKIFER@REFIKENGINEERING.COM

PROVOST & PRITCHARD CONSULTING GROUP

EMAIL: AYA.SHITANISHI@TETERAE.COM

FRESNO, CA 93711 (559) 437-0887

LICENSE #: C34089

1500 SHAW AVE.

CLOVIS, CA, 93611 (559) 242-6477

LICENSE #: E23239

STRUCTURAL ENGINEER

286 W. CROMWELL AVE., FRESNO, CA 93711 (559) 449-2700

CONTACT: ROBBY GOTTSELIG, SE EMAIL: RGOTTSELIG@PPENG.COM

TETER, INC.

1446 TOLLHOUSE RD, SUITE 102

NONE.

GOVERNING CODES

WATER-BASED FIRE PROTECTION SYSTEMS NFPA 72-22 NATIONAL FIRE ALARM AND SIGNALING CODE (AS AMENDED

FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT: HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE. THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE

OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION

GENERAL NOTES

- 3. ALL TESTS TO CONFORM TO THE REQUIREMENTS OF TITLE 24 SECTION 4-335, PART 1, AND APPROVED T & I SHEE
- 5. DSA SHALL BE NOTIFIED AT THE START OF CONSTRUCTION AND PRIOR TO THE PLACEMENT OF THE CONCRETE PER TITLE 24 SECTION 4-331, PART

- 9. THE ARCHITECT AND THE STRUCTURAL ENGINEER SHALL PERFORM THEIR DUTIES IN ACCORDANCE WITH TITLE 24 SECTION 4-333(a) AND 4-341, PART I
- 10. THE CONTRACTOR SHALL PERFORM HIS DUTIES IN ACCORDANCE WITH TITLE 24 SECTION 4-343, PART
- 11. SUBSTITUTIONS AND REQUESTS FOR INFORMATION AFFECTING STRUCTURAL SAFETY, FIRE AND LIFE SAFETY OR ACCESS COMPLIANCE SHALL BE APPROVED BY DSA PRIOR TO FABRICATION OR USE.
- 12. ADDENDA MUST BE SIGNED BY ARCHITECT AND APPROVED BY DSA.
- 13. NO CHANGES OR REVISIONS SHALL BE MADE FOLLOWING WRITTEN APPROVAL WHICH AFFECTS ACCESS COMPLIANCE ITEMS UNLESS SUCH CHANGES OR REVISIONS ARE SUBMITTED TO THE DSA FOR APPROVAL.
- 14. SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE SUBMITTED AS A CONSTRUCTION CHANGE DOCUMENT OR ADDENDA, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION.
- 15. CONSTRUCTION CHANGE DOCUMENTS MUST BE SIGNED BY THE FOLLOWING: ARCHITECT OR ENGINEER OF RECORD STRUCTURAL ENGINEER (WHEN APPLICABLE) DELEGATED PROFESSIONAL ENGINEER.
- 16. MATERIALS AND THEIR INSTALLATION SHALL COMPLY WITH APPLICABLE CODES, STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
- 17. THESE PLANS AND SPECIFICATIONS WILL COMPLY WITH CFC CHAPTER 33-FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION. THE CONTRACTOR SHALL COMPLY W/ CFC CHAPTER-33 FIRE SAFETY DURING CONSTRUCTION AND DEMO.
- 18. DSA IS NOT SUBJECT TO ARBITRATION.

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

THE DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED

1. DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24,

2. COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR

MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE

CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY

THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF

IS/ARE IN GENERAL CONFORMANCE AND HAVE BEEN COORDINATED WITH THE PROJECT PLANS

05/13/2024

1.31.2025

EXPIRATION DATE

TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

EDUCATION CODE AND SECTIONS 4-336, 4-341, AND 4-344" OF TITLE 24, PART I.

☑ ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX

APPLICATION NO.: 02-122086 FILE NO.: 20-H3

☐ THIS DRAWING OR PAGE

ARCHITECT'S SIGNATURE

<u>C34089</u> LICENSE NUMBER

19. THIS PROJECT IS A HVAC ONLY PROJECT AND IS EXEMPT FROM ACCESSIBILITY UPGRADES UNDER 11B-202.4 EXCEPTION 7

20. WHERE PAINT WORK IS INDICATED ON PLANS, COMPLETE PAINT WORK IN ACCORDANCE WITH PAINT SPECIFICATIONS

21. 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 SPECIFICATION, 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).

PROJECT SITE

LOCATION

22. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES

DSA APP. NO. 02-122086

GENERAL

COVER SHEET

MECHANICAL

MECHANICAL LEGEND & NOTES

MECHANICAL SCHEDULES

MECHANICAL SITE PLAN

MECHANICAL DEMOLITION ROOF PLAN - EAST GYM

MECHANICAL ROOF PLAN - EAST GYM

MECHANICAL DEMOLITION ROOF PLAN - WEST GYM

MECHANICAL ROOF PLAN - WEST GYM

MECHANICAL ROOF PLAN - LOCKER ROOMS

MECHANICAL DETAILS

TITLE 24 DOCUMENTATION

\sim **ARCHITECTURAL**

TULLING THE TENT OF THE TENT O STRUCTURAL

GENERAL NOTES

PARTIAL ROOF FRAMING PLAN - EAST GYM

PARTIAL ROOF FRAMING PLAN - WEST GYM

PARTIAL ROOF FRAMING PLAN - LOCKER ROOMS

ELECTRICAL

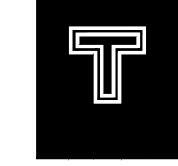
NOTES & SPECIFICATIONS

OVERALL SITE PLAN

SITE POWER PLAN

ROOF DEMOLITION PLAN - EAST GYM

ROOF POWER PLAN - EAST GYM



ARCHITECTS ENGINEERS CONNECTED

TETER, INC. VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO

PROJECT DIRECTORY

ARCHITECT'S STATEMENT

VICINITY MAP



NET POSITIVE

www.NPCeng.com

Positive Consulting Engineers, Inc

Symbol Description

Symbol Description

ROOF DEMOLITION PLAN - WEST GYM ROOF POWER PLAN - WEST GYM mmmmmmm, ROOF POWER PLAN - LOCKER ROOMS -E3.0 DETAILS & SCHEDULES NUMBER OF SHEETS = 2 SHEET INDEX

COVER SHEET

G001 AD01-01

DATE: 05/13/2024

SHEET TITLE:

SHEET NO:

MECHANICAL SCHEDULES

DESIG	NATION	HC-1A	HC-1B	HC-2A	HC-2B	HC-3A	HC-3B
REFRIC	GERANT	R454B	R454B	R454B	R454B	R410	R410
VOLTS	/ PHASE	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3
F.L.A.						44	44
MCA / I	MOCP (AMPS)	76 / 90	76 / 90	89 / 110	89 / 110	42.4 / 50	42.4 / 50
IEER / I	EER @ ARI	14.3 / 9.8	14.3 / 9.8	13.4 / 9.8	13.4 / 9.8	16.4 / 11.4	16.4 / 11.4
	SUPPLY AIR (CFM)	12000	12000	14000	14000	8000	8000
	EXT. S P (IN. WC)	2.0	2.0	2.0	2.0	1.0	1.0
~	MIN. O.S.A. (CFM)	2125	2125	4075	4075	4475	4475
BLOWER	DCV MIN. O.S.A. (CFM)	925	925	1255	1255	-	-
LO'	HP / BHP	15 / 10.2	15 / 10.2	20 / 14.57	20 / 14.57	7.5 / 3.95	7.5 / 3.95
ш	RPM	1021	1021	1103	1103	1768	1768
	DRIVE	VFD	VFD	VFD	VFD	AXIAL	AXIAL
	NOMINAL TONS	30	30	35	35	20	20
(D	SENSIBLE (MBH)	237.8	237.8	286.6	286.6	167.05	167.05
COOLING	TOTAL (MBH)	289.4	289.4	354.0	354.0	225.28	225.28
8	EADB / EAWB (oF)	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67
O	AMBIENT AIR (oF)	105	105	105	105	105	105
	INPUT CAP. (MBH)	262.5 / 350	262.5 / 350	262.5 / 350	262.5 / 350	176 / 220	176 / 220
JNG ING	OUTPUT CAP. (MBH)	283.5	283.5	283.5	283.5	142 / 178	142 / 178
Α	FUEL	GAS	GAS	GAS	GAS	GAS	GAS
뽀	HEATING CONTROL	2 STAGE	2 STAGE				
FILTER	TYPE	MERV 13	MERV 13				
MANUF	ACTURER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER
TYPE		SAV	SAV	SAV	SAV	SAV	SAV
MODEL	NUMBER	48K3AF30-2E6A0B6A0	48K3AF30-2E6A0B6A0	48K3AF34-3E6A0B6A0	48K3AF34-3E6A0B6A0	48GCDM24A2M6-0A0A0	48GCDM24A2M6-0A0
SERVI	CE	EAST GYM	EAST GYM	WEST GYM	WEST GYM	LOCKER ROOMS	LOCKER ROOMS
MOUN	TING DETAIL	5	5	5	5	5	5
OPER.	WT (LBS)	4050	4050	4150	4150	2970	2970
(E) UNI	T OPER. WT. (LBS)	9090	9090	9500	9500	7500	7500
ACCES	SSORIES	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4

^{1.} MANUFACTURER'S ULTRA-LOW LEAK ECONOMIZER WITH BAROMETRIC RELIEF & FAULT DETECTION DIAGNOSTICS.

^{5.} MOUNT PER DETAIL 1/M800.

EXHAUST FAN SCHED	JLE							
DESIGNATION	EF-1A	EF-1B	EF-3A	EF-3B	EF-8A	EF-8B	EF-8C	EF-8D
CFM	8000	8000	12000	12000	7000	7000	7000	7000
EXT. S P (IN. WC)	1.75	1.75	0.50	0.50	1.75	1.75	1.75	1.75
(E) HP/ (E) BHP	7 / 5.83	7 / 5.83	2 / 1.9	2 / 1.9	1/-	1/-	1/-	1/-
HP/ BHP	5 / 4.2	5 / 4.2	2 / 1.92	2 / 1.92	5 / 3.7	5 / 3.7	5 / 3.7	5 / 3.7
(E) VOLTS/ (E) PHASE	460/3	460/3	460/3	460/3	208 /1	208 /1	208 /1	208 /1
VOLTS/ PHASE	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3
RPM	850	850	319	319	1121	1121	1121	1121
TIP SPEED (FT/MIN) / SONES	1616 / 18.9	1616 / 18.9	3716 / 10.5	3716 / 10.5	1837 / 31	1837 / 31	1837 / 31	1837 / 31
DRIVE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
MOUNTING	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF
MANUFACTURER	GREENHECK	GREENHECK	соок	соок	GREENHECK	GREENHECK	GREENHECK	GREENHECK
TYPE	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL
MODEL NUMBER	G-300-C-VGD	G-300-C-VGD	445HLC-B	445HLC-B	G-240-VG	G-240-VG	G-240-VG	G-240-VG
CONTROL	INTL. W/ CAH-1A	INTL. W/ CAH-1A	INTL. W/ MUA-1A	INTL. W/ MUA-1A	2	2	2	2
LOCATION	LOCKER ROOMS	LOCKER ROOMS	EAST GYM	EAST GYM	WEST GYM	WEST GYM	WEST GYM	WEST GYM
OPER. WT. (LBS)	320	320	333	333	223	223	223	223
EXISTING OPER. WT. (LBS)	1750	1750	700	700	500	500	500	500

4. MOUNT PER DETAIL 4/M800.

APPROVED DIV. OF THE STATE ARCHITECT APP: 02-122086 INC: REVIEWED FOR
SS FLS ACS
DATE: 01/08/2025



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REVISI	ONS:
Symbol	Description
11/27/2024	CCD 001
Symbol	Description
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Symbol	Description
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DATE: 05/13/2024 SHEET TITLE:

> MECHANICAL SCHEDULES

SHEET NO: M002

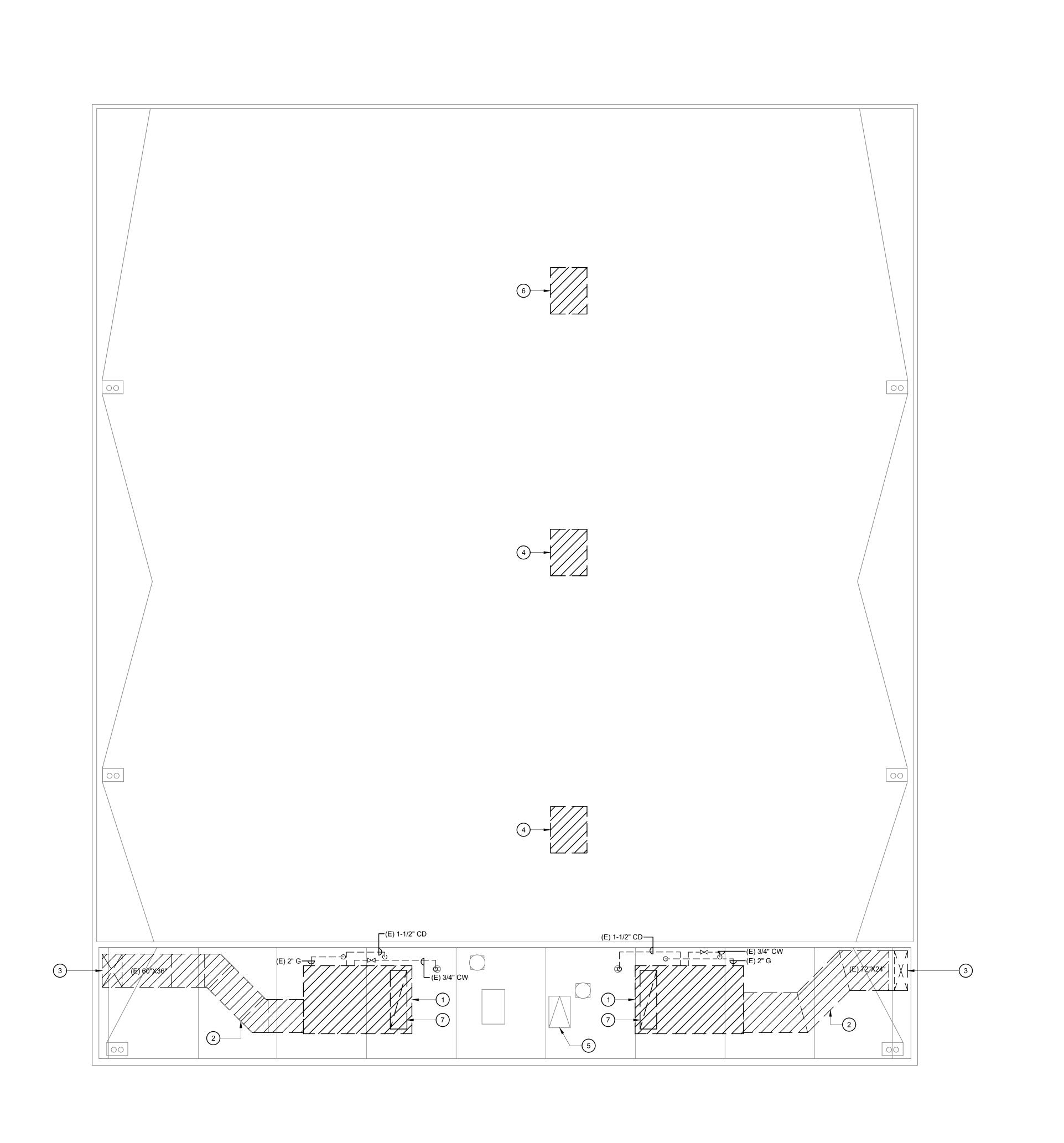
^{2.} MANUFACTURER'S HAIL GUARD.

^{3.} MANUFACTURER'S PHASE MONITOR.

^{4.} MANUFACTURER'S DIGITAL COMPRESSOR.

^{2.} INTERLOCKED WITH CAH-2A (HIGH SPEED ONLY).

^{3.} PROVIDE SPEED CONTROLLER.



KEYNOTES #

- 1. REMOVE (E) MUA UNIT, CURB, AND CW LINE. PRESERVE GAS AND CONDENSATE FOR CONNECTION TO (N) HC UNIT.
- 2. REMOVE (E) DUCTWORK WHERE SHOWN HATCHED.

 3. REMOVE SUPPLY DUCTWORK DOWN THRU ROOF. PATCH BACK AND WATERPROOF ROOF TO MATCH EXISTING CONDITIONS PER DETAIL 3/A800. PRESERVE SUPPLY AIR DUCTWORK BELOW ROOF FOR CONNECTION TO (N) SUPPLY AIR DUCTWORK EPOM (N) HC
 - FOR CONNECTION TO (N) SUPPLY AIR DUCTWORK FROM (N) HC UNIT.

 4. REMOVE (E) EF. PRESERVE (E) CURB FOR INSTALLATION OF (N) EF.
- 5. (E) ROOF ACCESS HATCH.6. REMOVE (E) EF. PATCH CURB WATERTIGHT AND ABANDON IN
- PLACE PER DETAIL 5/A800.
- 7. REMOVE RETURN DUCTWORK DOWN THRU ROOF. PATCH BACK AND WATERPROOF ROOF TO MATCH EXISTING CONDITIONS PER DETAIL 3/A800.

NET POSITIV

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 02-122086 INC:

REVIEWED FOR

DATE: 01/08/2025

consulting engineers www.NPCeng.com 559.940.7293

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REVISIONS:

Symbol Description

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Symbol Description

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Symbol Description

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GENERAL NOTES

1. ALL PARAPETS ARE NOT LESS THAN 42" ABOVE THE ROOF SURFACE.

EMENTS AT
HIGH SCHOOL
CHOOL DISTRICT
DERA, CA 93637
PROJECT NO: 1337

HVAC IMPROVEMENT
MADERA SOUTH HIGH S
MADERA UNIFIED SCHOOL

DATE: 05/13/2024
SHEET TITLE:

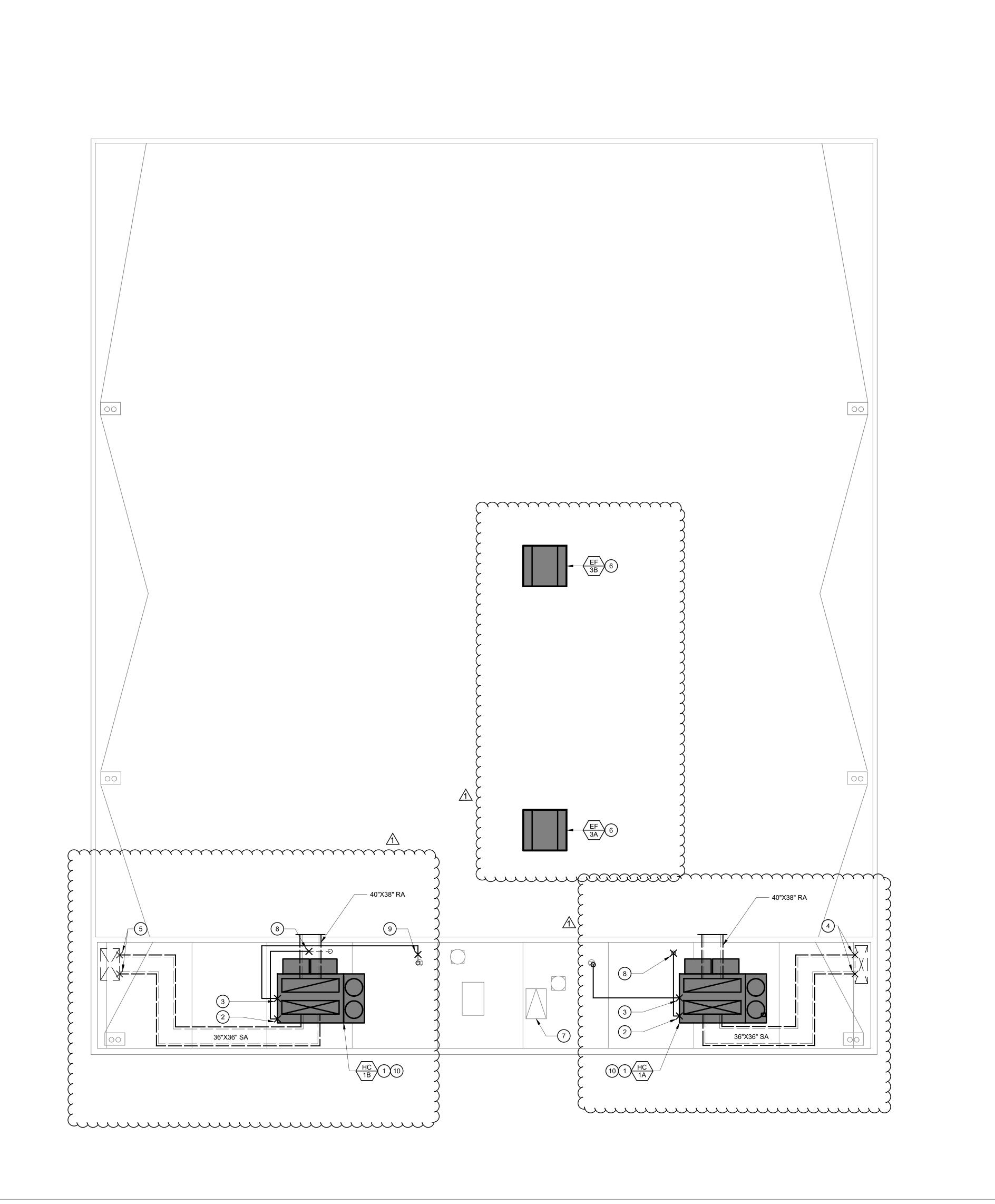
MECHANICAL
ROOF PLAN -

SHEET NO: M500

AD01-03

EAST GYM

NORTH



KEYNOTES #

- 1. INSTALL (N) HC UNIT ON (N) CURB PER DETAIL 1/M800. NEW CURB
- PER DETAIL 1/A800.
- 2. POC OF (N) 2" G TO (N) HC UNIT PER DETAIL 2/M800. 3. POC OF (N) 1-1/2" CD TO (N) HC UNIT PER DETAIL 3/M800.
- 4. POC OF (E) 72" X 24" SA DUCT TO (N) 36" X 36" SA DUCT, BELOW
- 5. POC OF (E) 60 X 36" SA DUCT TO (N) 36" X 36" SA DUCT BELOW
- 6. MOUNT (N) EF ON (E) CURB PER DETAIL 4/M800.
- 7. (E) ROOF ACCESS HATCH.
- 8. POC OF (N) 2" G TO (E) 2" G. 9. POC OF (N) 1-1/2" CD TO (E) 1-1/2" CD.
- 10. (N) SA AND RA DUCTWORK FROM (N) UNIT TO DROP DOWN THROUGH ROOF. REFER TO DETAIL 2/S500 FOR (N) ROOF PENETRATION.

Cumming

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consulting

APP: 02-122086 INC:

REVIEWED FOR SS ☑ FLS ☑ ACS □

DATE: 01/08/2025



	REVISI	ONS:
	Symbol	Description
	11/27/2024	CCD 001
_	Symbol	Description
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GENERAL NOTES

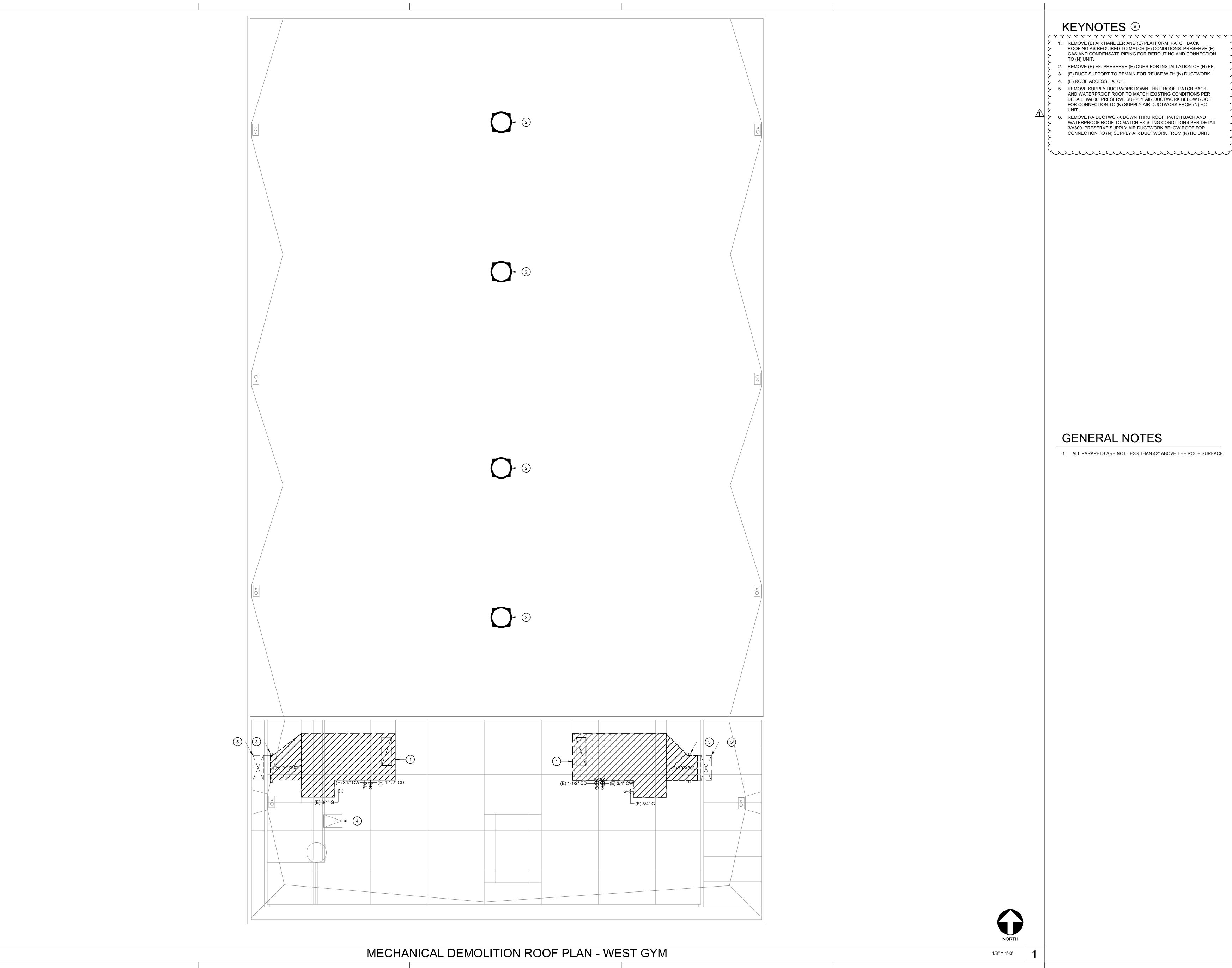
1. ALL PARAPETS ARE NOT LESS THAN 42" ABOVE THE ROOF SURFACE.

DATE: 05/13/2024 MECHANICAL **ROOF PLAN -EAST GYM** SHEET NO:

M501 AD01-04

MECHANICAL ROOF PLAN - EAST GYM

1/8" = 1'-0"





. REMOVE (E) AIR HANDLER AND (E) PLATFORM. PATCH BACK ROOFING AS REQUIRED TO MATCH (E) CONDITIONS. PRESERVE (E) GAS AND CONDENSATE PIPING FOR REROUTING AND CONNECTION

- 2. REMOVE (E) EF. PRESERVE (E) CURB FOR INSTALLATION OF (N) EF.
- 3. (E) DUCT SUPPORT TO REMAIN FOR REUSE WITH (N) DUCTWORK.
- 5. REMOVE SUPPLY DUCTWORK DOWN THRU ROOF. PATCH BACK AND WATERPROOF ROOF TO MATCH EXISTING CONDITIONS PER
- DETAIL 3/A800. PRESERVE SUPPLY AIR DUCTWORK BELOW ROOF FOR CONNECTION TO (N) SUPPLY AIR DUCTWORK FROM (N) HC
- 6. REMOVE RA DUCTWORK DOWN THRU ROOF. PATCH BACK AND WATERPROOF ROOF TO MATCH EXISTING CONDITIONS PER DETAIL 3/A800. PRESERVE SUPPLY AIR DUCTWORK BELOW ROOF FOR CONNECTION TO (N) SUPPLY AIR DUCTWORK FROM (N) HC UNIT.

APP: 02-122086 INC:

REVIEWED FOR SS FLS ACS

DATE: 01/08/2025

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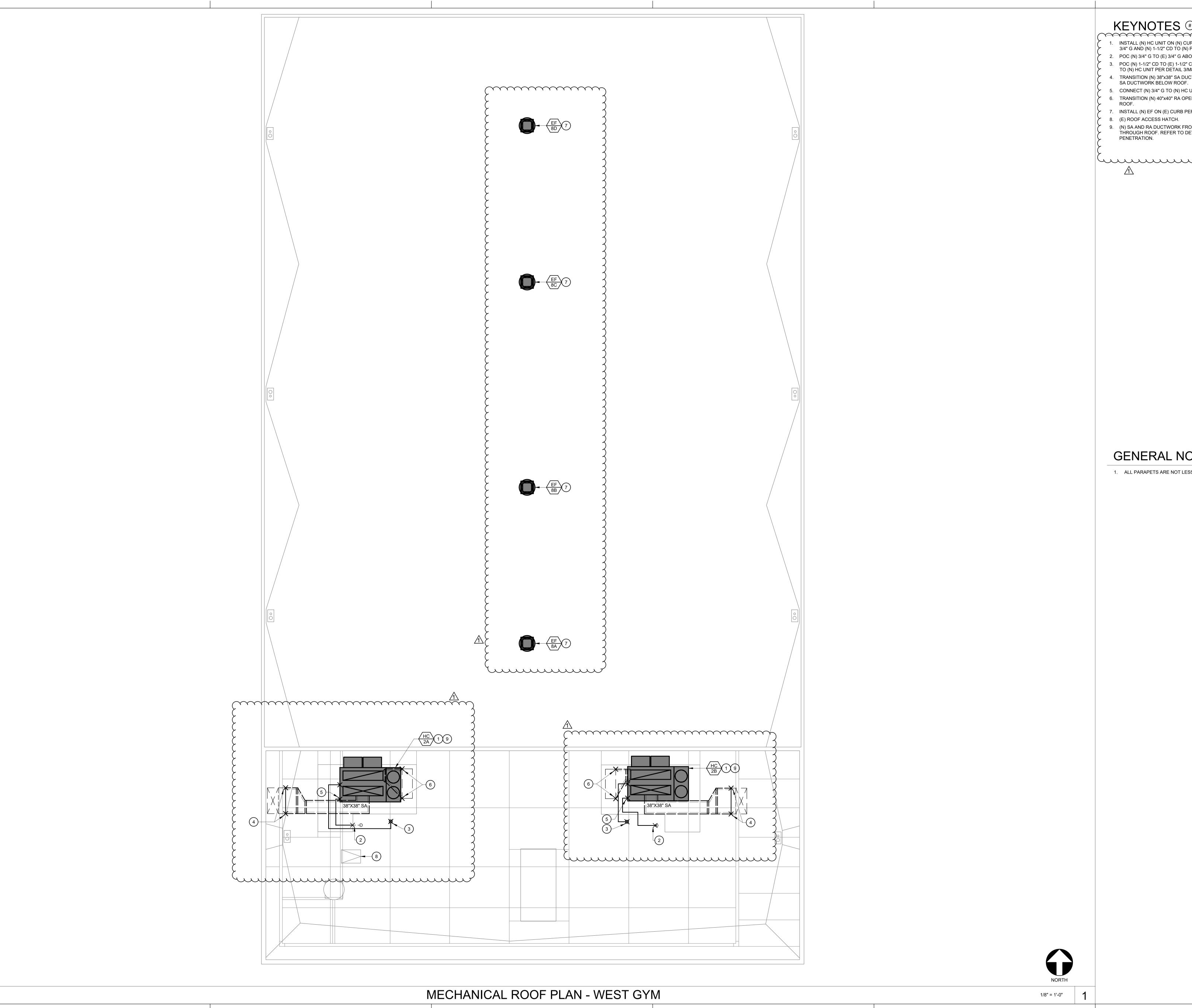
REVISIONS: Symbol Description CCD 001 Symbol Description

1. ALL PARAPETS ARE NOT LESS THAN 42" ABOVE THE ROOF SURFACE.

DATE: 05/13/2024

MECHANICAL DEMOLITION ROOF PLAN -WEST GYM

SHEET NO: M510



KEYNOTES

- 1. INSTALL (N) HC UNIT ON (N) CURB PER DETAIL 1/M800. CONNECT (N)
- 3/4" G AND (N) 1-1/2" CD TO (N) PACKAGE UNIT. 2. POC (N) 3/4" G TO (E) 3/4" G ABOVE ROOF.
- 3. POC (N) 1-1/2" CD TO (E) 1-1/2" CD RISER ABOVE ROOF AND ROUTE TO (N) HC UNIT PER DETAIL 3/M800.
 - 4. TRANSITION (N) 38"x38" SA DUCT FROM (N) HC UNIT TO (E) 70" X 30"
- 5. CONNECT (N) 3/4" G TO (N) HC UNIT PER DETAIL 2/M800. 6. TRANSITION (N) 40"x40" RA OPENING TO (E) 80"x16" RA DUCT BELOW
- 7. INSTALL (N) EF ON (E) CURB PER DETAIL 4/M800.
- 8. (E) ROOF ACCESS HATCH.
- 9. (N) SA AND RA DUCTWORK FROM (N) UNIT TO DROP DOWN THROUGH ROOF. REFER TO DETAIL 1/S510 FOR (N) ROOF

Commence of the commence of th

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The ideas, drawings, designs and

consulting

engineers

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APP: 02-122086 INC:

REVIEWED FOR

DATE: 01/08/2025



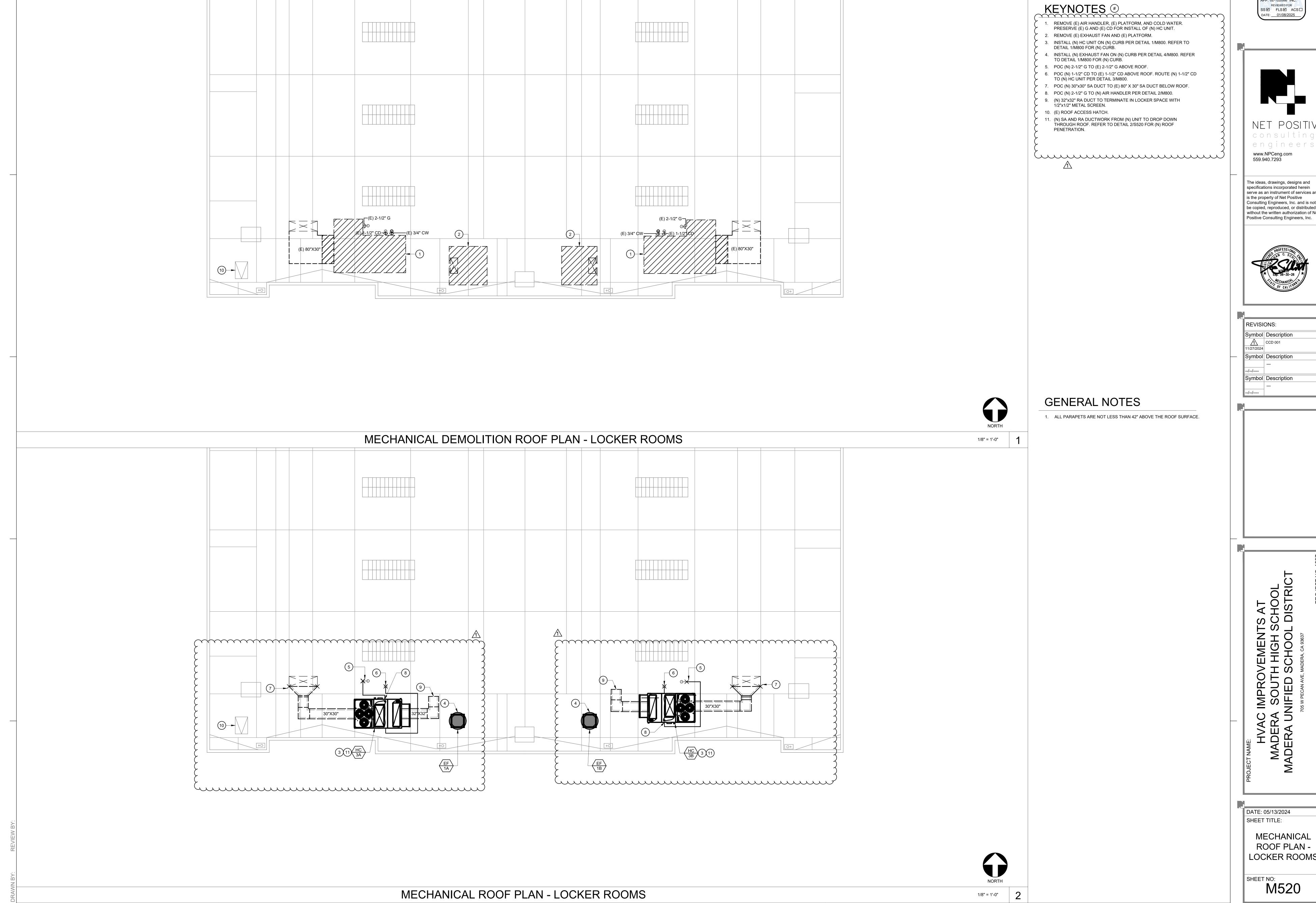
REVISIONS: Symbol Description Symbol Description Symbol Description

GENERAL NOTES

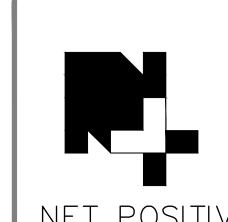
1. ALL PARAPETS ARE NOT LESS THAN 42" ABOVE THE ROOF SURFACE.

DATE: 05/13/2024 SHEET TITLE: MECHANICAL ROOF PLAN -WEST GYM

SHEET NO: M511



APPROVED DIV. OF THE STATE ARCHITE APP: 02-122086 INC:

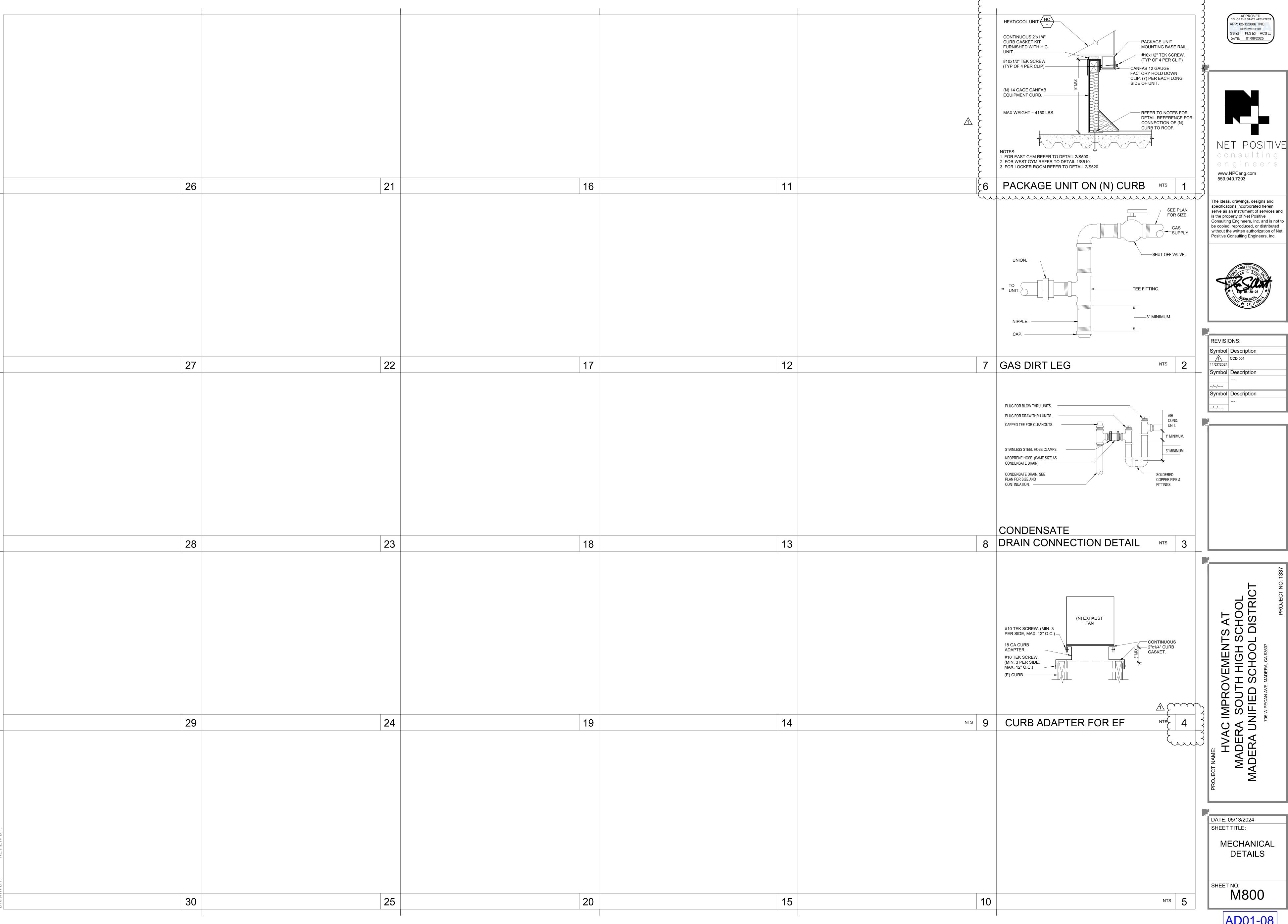


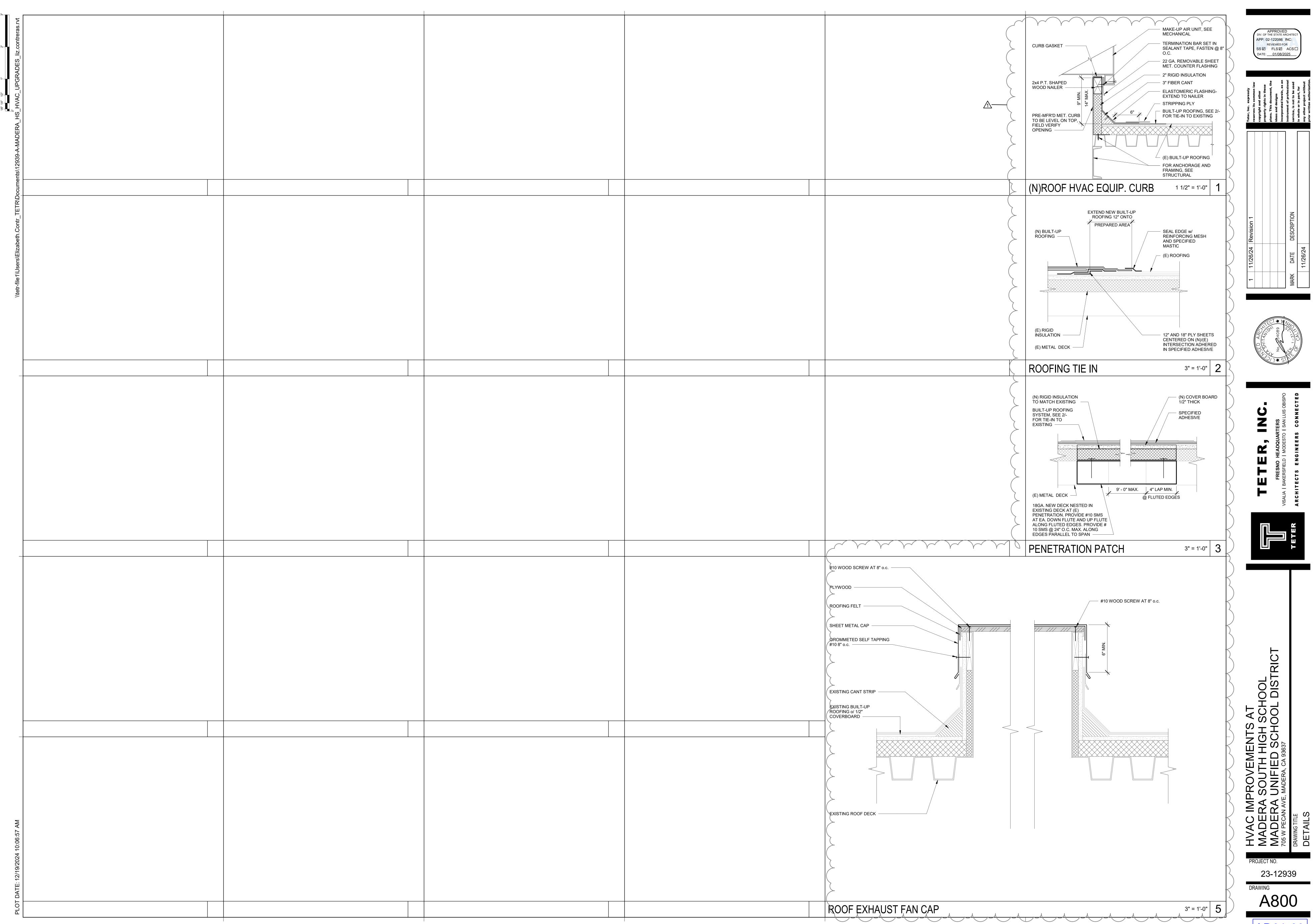
engineers

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ROOF PLAN -LOCKER ROOMS





4. STRUCTURAL STEEL AND OF THE A.I.S.C. WELDS USED IN MEMBERS AND CONNECTIONS OF THE SEISMIC FORCE RESISTING SYSTEM AND ARE DESIGNATED AS "DEMAND CRITICAL" SHALL BE MADE WITH FILLER METALS MEETING THE REQUIREMENTS SPECIFIED IN CLAUSE 6.1, 6.2, AND 6.3 OF AND APPROVED ALL WELDING PROCEDURES. WELDERS CERTIFICATES SHALL BE SUBMITTED TO THE PROJECT INSPECTOR PRIOR THE TYPE OF WORK TO BE DONE. 6. ALL WELDING SHALL BE SUBJECT TO SPECIAL INSPECTION. OVERSIZE U.N.O. 8. FIELD WELDING IS SUBJECT TO SPECIAL INSPECTION. FABRICATION PRIOR TO SHOP DRAWING RETURN SHALL BE AT CONTRACTORS RISK, UNLESS OTHERWISE APPROVED. B. MATERIALS: 1. STRUCTURAL STEEL 2. MISC. METALS - ASTM A36

MISCELLANEOUS METALS

- 1. FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH ACCEPTED PRACTICES
- STEEL TO BE TESTED WILL BE INDICATED IN THE SPECIFICATIONS AND THE DSA-103. IDENTIFICATION BT MILL CERT. IS ACCEPTED UNLESS NOTED. WELDING OF STRUCTURAL STEEL SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE A.W.S. "STRUCTURAL WELDING CODE" (AWS D1. 1:2020). ALL
- STRUCTURAL WELDING CODE SEISMIC SUPPLEMENT (AWS D1.8:2016). WELDING PROCEDURE SPECIFICATIONS "WPS" SHALL BE SUBMITTED TO THE SPECIAL INSPECTOR FOR ALL WELD TYPES USED ON THE PROJECT. SPECIAL INSPECTOR SHALL PROVIDE A LETTER TO THE SEOR INDICATING THEIR OFFICE HAS REVIEWED
- TO STARTING WORK. WELDERS SHALL BE QUALIFIED BY AWS CERTIFICATION FOR
- 7. BOLT HOLE SIZES SHALL COMPLY WITH THE AISC. BOLT HOLES SHALL BE MAX V_{16} "
- 9. FABRICATION SHALL NOT TAKE PLACE UNTIL SHOP DRAWINGS HAVE BEEN RECEIVED, RETURNED, AND ISSUES IN QUESTION HAVE BEEN RESOLVED. REFER TO SECTION C.
- a. CHANNELS, ANGLES & BASE PLATES ASTM A36, Gr. A
- 3. STANDARD BOLTS ASTM A307. Gr. A TYPICAL UNLESS NOTED OTHERWISE. STANDARD NUTS - ASTM A563 - TYPICAL UNLESS NOTED OTHERWISE.
- WASHERS AS REQUIRED BY THE AISC, RCSC, SECTION 6 USE OF WASHERS. WELDING ROD - HEAVILY COATED, CONFORMING WITH A.W.S. "SPECIFICATIONS FOR ARC WELDING". ELECTRODES OF CLASSIFICATION NUMBERS SUITABLE FOR THE WORK TO BE DONE.
- C. SHOP DRAWING SUBMITTALS:

RE-SUBMITTAL WILL BE REQUIRED.

- 1. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION. SEE SPECIFICATIONS FOR SUBMITTALS REQUIRED. 2. SHOP DRAWINGS SHALL NOT BE PREPARED UNTIL ALL CONDITIONS HAVE BEEN
- VFRIFIFD 3. DETAILER SHALL SUBMIT RFI'S FOR ISSUES REQUIRING RESOLUTION FOR COMPLETION OF SHOP DRAWINGS. MINOR ISSUES MAY BE CLOUDED IN THE SHOP
- FABRICATOR SHALL SUBMIT SHOP DRAWINGS IN MULTIPLE SUBMITTALS OF SIZES TO ALLOW FOR ARCHITECT/ENGINEER REVIEW IN THE SPECIFIED ALLOTTED TIME (SEE SPECIFICATIONS).
- 5. FABRICATOR SHALL BE RESPONSIBLE FOR DETERMINING THE SIZE AND ORDER OF SHOP DRAWINGS TO ALLOW FOR INCREMENTING THE WORK WITHIN THE
- FABRICATION SCHEDULES. SHOP DRAWING PREPARATION SHALL INCLUDE A CONTINGENCY TO ALLOW FOR MINOR REVISIONS RESULTING FROM ARCHITECTS' AND ENGINEERS' REVIEW. IF SUBMITTALS ARE IN SIZES TOO LARGE TO REVIEW IN THE TIME ALLOTTED PER THE SPECIFICATIONS, SUBMITTAL WILL BE RETURNED FOR CORRECTIONS AND
- THE QUANTITY, TYPES AND LOCATIONS OF ROOF AND FLOOR MOUNTED EQUIPMENT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE VERIFIED.
- FRAMING AND DETAILS SHOWN IN THESE DRAWINGS FOR THE SUPPORT OF ROOF AND/OR FLOOR MOUNTED EQUIPMENT AND OPENINGS IN ROOF AND/OR FLOOR DECKS ARE TYPICAL CONDITIONS. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL. MECHANICAL. PLUMBING ELECTRICAL AND OTHER CONTRACT DOCUMENTS FOR EQUIPMENT AND OPENING LOCATIONS, SIZES AND MOUNTING REQUIREMENTS.
- LOCATIONS OF ROOF AND FLOOR EQUIPMENT AND ASSOCIATED OPENINGS IN THE FRAMING SHALL BE COORDINATED AND VERIFIED WITH ALL RELATED DOCUMENTS. LOCATIONS OF EQUIPMENT SHOWN ON THE STRUCTURAL DRAWINGS ARE GENERAL REPRESENTATIONS FOR REQUIRED FRAMING.
- CONTRACTOR SHALL VERIFY AND ACCEPT ALL STEEL BEAM CAMBERS PRIOR TO INSTALLATION. VERIFICATION OF CAMBER SHALL BE WITH THE BEAM ON ITS SIDE IN AN UNLOADED CONDITION.

2. STRUCTURAL WOOD

A. MATERIALS: (UNLESS OTHERWISE NOTED ON DRAWINGS)

- 1. ALL DIMENSIONED LUMBER: DOUGLAS FIR #1 2. L.V.L. MATERIAL: 1.9E-DF/LP/WH LAMINATED VENEER LUMBER PER ICC ESR-1387
- 3. L.S.L. MATERIAL: 1.7E LAMINATED STRAND LUMBER PER ICC ESR-1387. 4. WOOD STRUCTURAL PANELS (PLYWOOD OR ORIENTED STRAND BOARD (OSB)): EACH PANEL SHALL BE IDENTIFIED WITH THE GRADE TRADEMARK OF THE APA. INSTALL ROOF PLYWOOD w/ FACE-GRAIN PERPENDICULAR TO SUPPORT FRAMING.
- B. MACHINE BOLTS & LAG SCREWS: 1. BOLTS AND NUTS: ASTM A307
- 2. WASHERS: STANDARD CUT WASHERS SHALL BE FURNISHED AT EACH BOLT HEAD AND NUT PLACED NEXT TO WOOD.
- 3. BOLT HOLES: MINIMUM 1/32" TO MAXIMUM 1/16" LARGER THAN BOLTS, ACCURATELY LOCATED. OVERSIZE OR SLOTTED HOLES NOT PERMITTED UNLESS SPECIFICALLY DETAILED ON DRAWINGS.
- 4. LAG SCREWS: LEAD HOLE FOR THREADED PORTION SHALL BE 70% OF SHANK DIAMETER WITH A DEPTH EQUAL TO THE LENGTH OF SCREW AND CLEARANCE HOLE FOR UNTHREADED PORTION SHALL EQUAL THE DIAMETER AND LENGTH OF THE SCREW SHANK.
- WOOD SCREWS: ANSI/ASME STANDARD B18.6.1 1. CONNECTION WOOD TO WOOD: WOOD SCREWS MAY BE PRE-DRILLED. THE LEAD HOLE RECEIVING THE SHANK SHALL BE NO MORE THAN 1/8 OF THE SHANK
- DIAMETER. THE LEAD HOLE RECEIVING THE THREADED PORTION SHALL BE NO MORE THAN 7/8 DIAMETER OF THE SHANK AT THE THREADED PORTION. 2. WOOD SCREWS SHALL NOT HAVE UPSET THREADS. DECKING SCREWS ARE NOT
- ALLOWED. SOAP OR OTHER LUBRICANT SHALL BE USED ON WOOD SCREWS TO FACILITATE INSERTION.
- HEAD, ZINC-PLATED STEEL SCREWS. 4. CONNECTING PLYWOOD TO STEEL SHAPES: USE THREAD CUTTING, FLAT PHILLIPS HEAD, ZINC-PLATED STEEL SCREWS.

3. CONNECTING PLYWOOD TO LIGHT GAUGE STEEL: USE SELF-DRILLING, FLAT PHILLIPS

- D. FASTENERS, INCLUDING ANCHOR BOLTS, IN CONTACT WITH PRESSURE TREATED MATERIAL: FASTENERS SHALL BE OF HOT DIPPED ZINC-COATED GALVANIZED STEEL (ASTM A 153). FASTENERS OTHER THAN NAILS, WOOD SCREWS AND LAG SCREWS SHALL BE PERMITTED TO BE OF MECHANICALLY DEPOSITED ZINC COATED STEEL (ASTM B 695, CLASS 55 MIN.)
- NAILED JOINTS: USE ONLY COMMON WIRE NAILS OR SPIKES. FOR MINIMUM REQUIREMENTS, REFER TO THE TYPICAL FASTENING SCHEDULE. (SINKERS AND BOX NAILS ARE NOT ALLOWED). PRE-DRILL HOLES WHERE WOOD TENDS TO SPLIT.
- MISC. METAL CONNECTORS: ALL SHEET METAL CONNECTORS USED FOR CONNECTING STRUCTURAL WOOD MEMBERS SHALL HAVE C.B.C. APPROVAL AND CONNECTORS SHALL BE GALVANIZED.
- G. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR MISC. BLOCKING, FURRING, SHIMS, ETC. FOR ATTACHMENT OF FINISHES AND ORNAMENTAL ITEMS.
- H. ALL SOLID SAWN LUMBER SHALL BE SEASONED LUMBER WITH A 19% MAX. MOISTURE CONTENT AT TIME OF INSTALLATION. WOOD PIECES EXCESSIVELY SPLIT, BENT OR DISTORTED SHALL BE REJECTED.

3. LIGHT-GAUGE STEEL FRAMING

1. DESIGN OF LIGHT-GAUGE STEEL HAS BEEN BASED ON THE 2022 CBC, CHAPTER 22A - DIVISION V. ALL WORK SHALL CONFORM TO THE CALIFORNIA BUILDING CODE AND THE AISI NAS.

ALL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE MECHANICAL, ELECTRICAL, AND ALL

- OTHER CONTRACT DRAWINGS AND SPECIFICATIONS. DIMENSIONS SHOWN SHALL TAKE PRECEDENCE OVER SCALE ON PLANS, SECTIONS, AND
- DETAILS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER IN RESPONSIBLE CHARGE OF THE PROJECT IMMEDIATELY.
- 4. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FLOOR OR ROOF FRAMING MEMBERS. LOAD SHALL NOT EXCEED DESIGN LIVE LOAD.
- 5. ALL STUD, JOIST AND MISCELLANEOUS MATERIAL SHALL HAVE STIFFENED FLANGES WITH 90° RETURNS AND SHALL BE MANUFACTURED IN ACCORDANCE WITH THE LATEST AISI SPECIFICATION. MATERIAL SHALL CONFORM TO THE FOLLOWING:

MATERIAL STRENGTH:

➤ 16 GAUGE AND HEAVIER - 50 KSI MIN. YIELD ASTM A653 SS CASE 1 OR 3 (GALV.)

MATERIAL THICKNESS: 12 GA. = .1017"

18 GA. = .0451" - 14 GA. = .0713" 20 GA. = .0346" . 16 GA. = .0566"

6. FASTENERS" METAL-TO-METAL: SELF TAPPING SHEET METAL SCREWS.

ALL COMPONENTS SHALL BE CUT SQUARELY OR AS REQUIRED FOR AN ANGULAR FIT TO RECEIVING MEMBERS. BENT, DISTORTED OR OTHERWISE DAMAGED COMPONENTS SHALL NOT BE

ALL BOLTS INSTALLED IN LIGHT-GAUGE STEEL SHALL BE ASTM A-309 W/ STANDARD BOLT HOLES = BOLT DIA.+1/16"

MANUFACTURER SHALL BE A MEMBER OF THE MSMA - METAL STUD MANUFACTURERS ASSOC. SECTIONS OF METAL COMPONENTS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES. IN COMPLIANCE WITH ICC ESR-3064P.

1. GENERAL NOTES

BE REPORTED TO THE ARCHITECT.

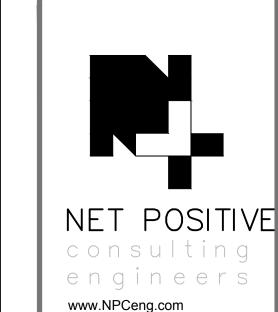
- A. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE CALIFORNIA BUILDING CODE (CBC), 2022 EDITION, AND ALL OTHER PUBLICATIONS AND STANDARDS LISTED HEREIN.
- B. ALL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND ALL OTHER CONTRACT DRAWINGS AND SPECIFICATIONS.
- C. DETAILS SHOWN ON STRUCTURAL DRAWINGS ARE TYPICAL. SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS. CONDITIONS NOT COMPATIBLE TO THE DETAILS PROVIDED SHALL
- D. DIMENSIONS SHOWN SHALL TAKE PRECEDENCE OVER SCALE ON PLANS, SECTIONS AND DETAILS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT
- E. NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
- F. FRAMING AND DETAIL CONDITIONS SPECIFIED BY THESE DRAWINGS SHALL NOT BE MODIFIED WITHOUT APPROVED WRITTEN DOCUMENTATION FROM THE ENGINEER AND ARCHITECT. CONTRACTOR SHALL NOT PROCEED WITH CONSTRUCTION OF CONDITIONS NOT APPROVED.
- G. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FLOOR OR ROOF FRAMING MEMBERS. LOAD SHALL NOT EXCEED DESIGN LIVE LOAD.

H. DESIGN LOADING: PER CBC, 2022 EDITION.

- I. CONSTRUCTION DOCUMENTS SHALL CONSIST OF THE "APPROVED" DRAWINGS, SPECIFICATIONS AND ADDENDUM BEARING THE STAMP AND SIGNATURE OF THE ARCHITECT AND THE APPROVAL STAMP OF THE JURISDICTIONAL BUILDING DEPARTMENT. STRUCTURAL CALCULATIONS ARE NOT PART OF THE CONSTRUCTION DOCUMENTS AND SHALL NOT BE USED FOR CONSTRUCTION PURPOSES.
- J. ALL WORK SHALL BE PERFORMED FROM THE "APPROVED" DOCUMENTS ONLY. A FULL SET OF APPROVED DOCUMENTS SHALL BE KEPT ON SITE DURING ALL CONSTRUCTION
- K. CONTRACTOR TO NOTIFY E.O.R. PRIOR TO MODIFYING ANY EXISTING FRAMING BEYOND REMOVAL OF EXISTING UNIT BLOCKING.
- L. DESIGN DATA CONDITIONS AS LISTED BELOW.

WIND DESIGN DATA		SEISMIC DESIGN DATA	
ULTIMATE WIND SPEED (3 SECOND GUST)	100 mph	SEISMIC IMPORTANCE FACTOR (1)	1.25
WIND EXPOSURE CATEGORY	С	RISK CATEGORY	///
RISK CATEGORY	///	MAPPED SPECTRAL RESPONSE	S _s = 0.608 S ₁ = 0.237
		SITE CLASS	D (DEFAULT)
		SPECTRAL RESPONSE COEFFICIENTS	S DS = 0.533
		SEISMIC DESIGN CATEGORY	D

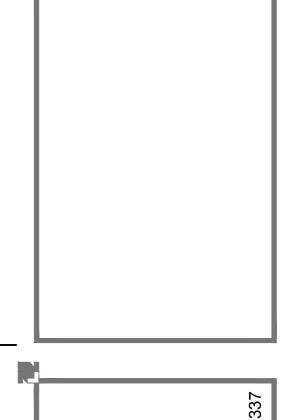




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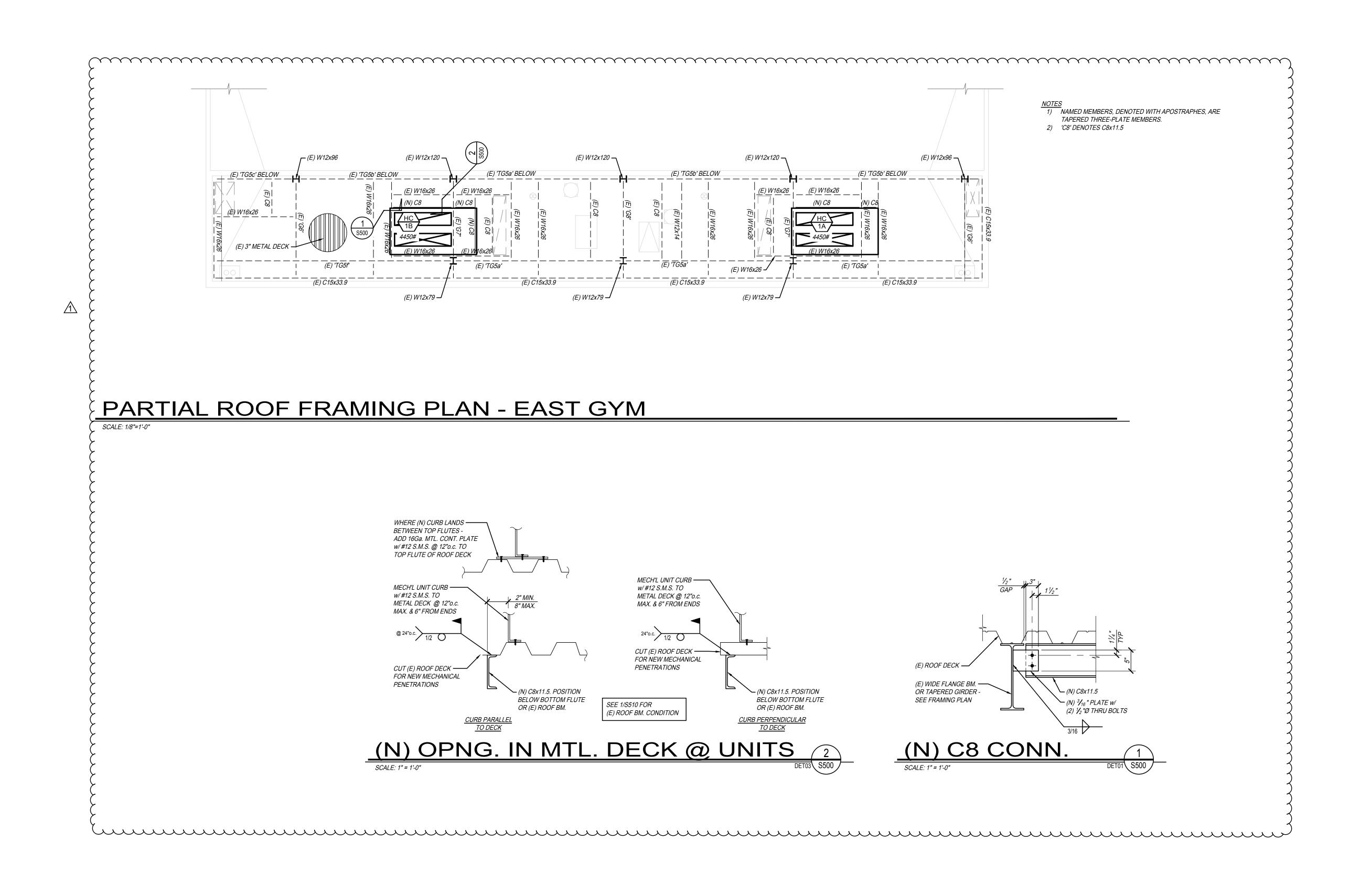
GENERAL NOTES

DATE: 04/26/2024

SHEET TITLE:

SHEET NO:

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PROJECT NO: 1337

HVAC IMPROVEMENTS AT
MADERA SOUTH HIGH SCHOOL
MADERA UNIFIED SCHOOL DISTRI

DATE: 04/26/2024 SHEET TITLE:

PROVOST& PRITCHARD

PARRISH HANSEN

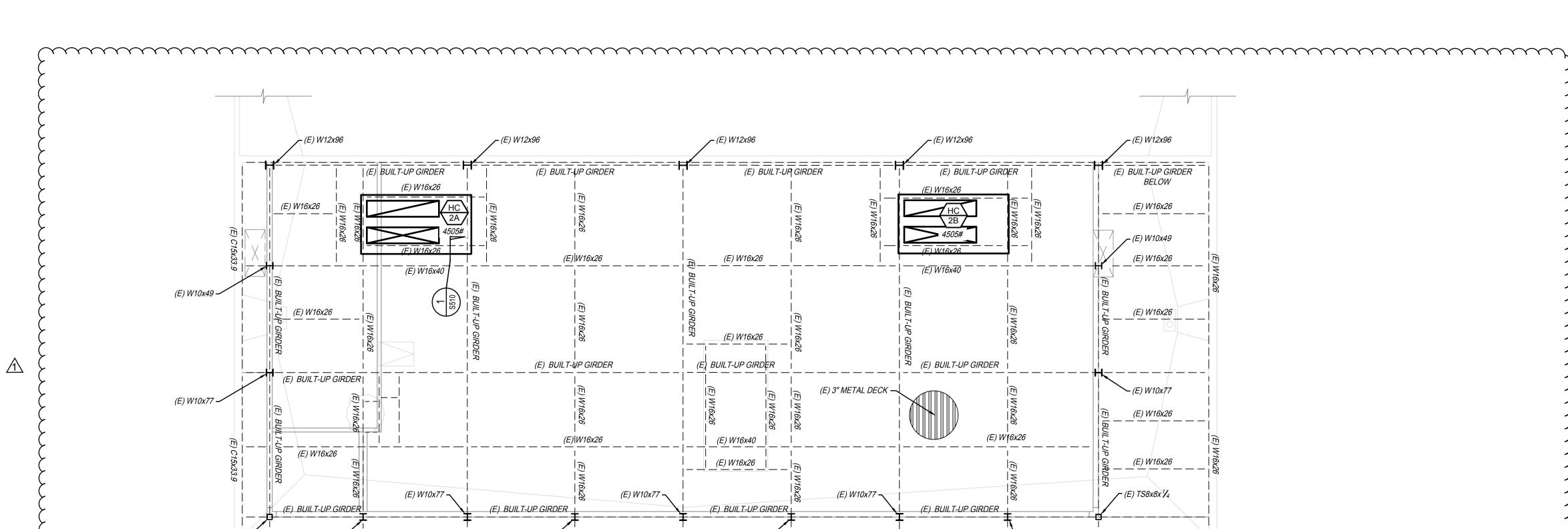
> CLOVIS, CALIFORNIA 93611 559/449-2700 FAX 559/449-2715

https://provostandpritchard.com/

PARTIAL ROOF FRAMING PLAN -EAST GYM

SHEET NO: **\$500**

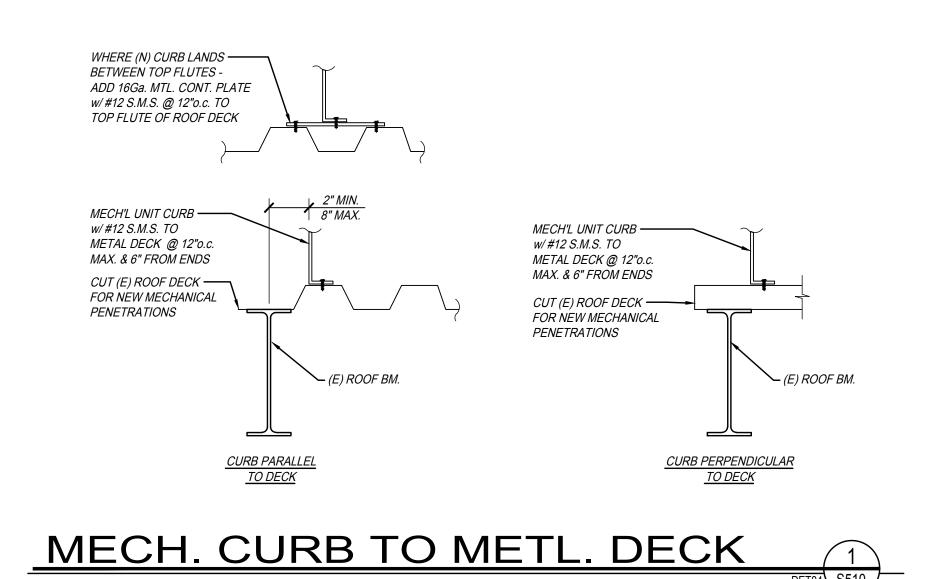
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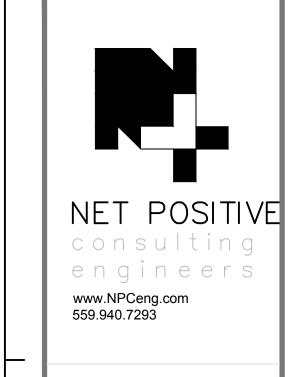
PARTIAL ROOF FRAMING PLAN - WEST GYM

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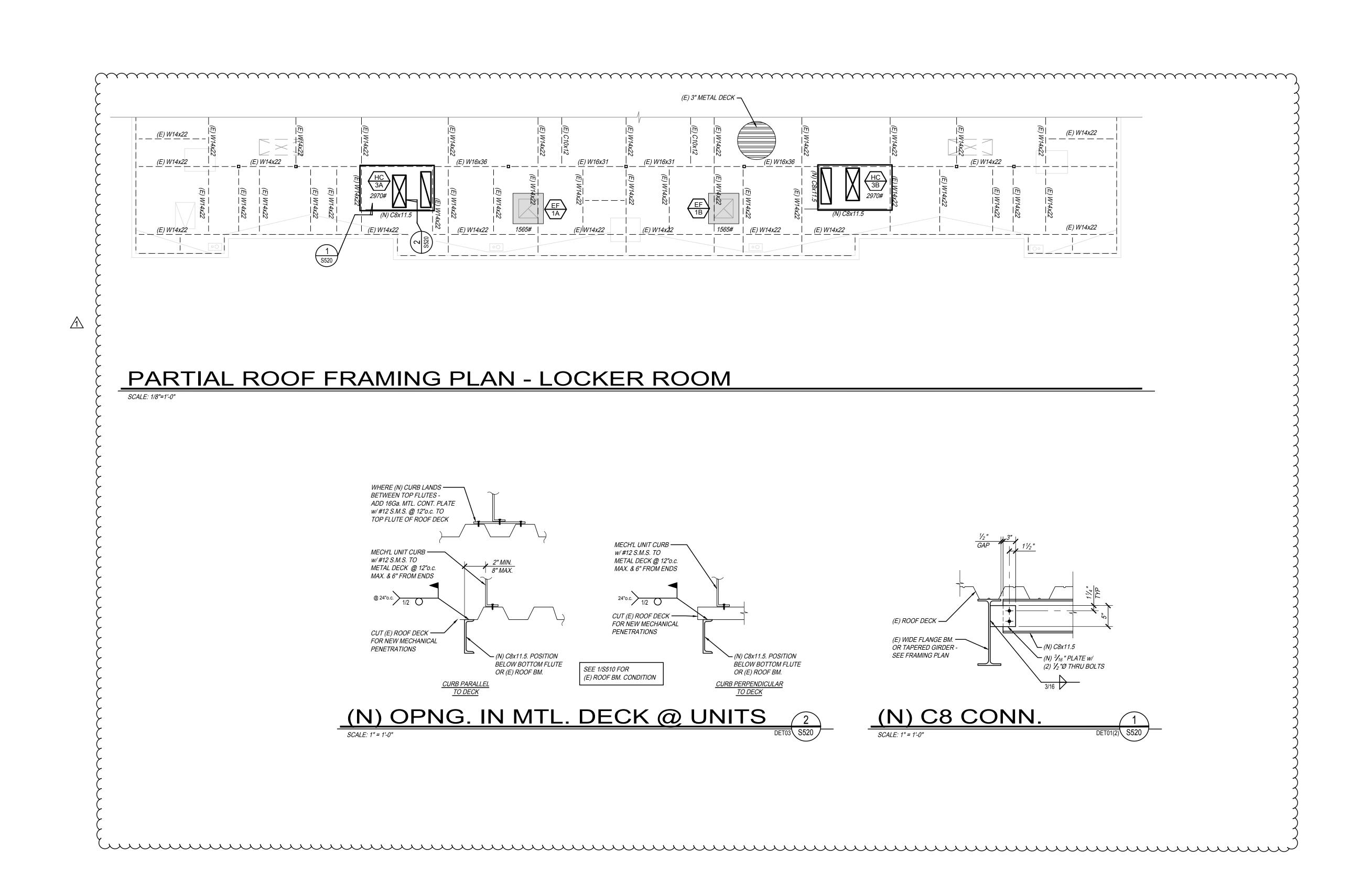
HVAC IMPROVEMENTS AT
MADERA SOUTH HIGH SCHOOL
MADERA UNIFIED SCHOOL DISTRICT

DATE: 04/26/2024
SHEET TITLE:

PARTIAL ROOF FRAMING PLAN -WEST GYM

SHEET NO: **\$510**

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HVAC IMPROVEMENTS AT
MADERA SOUTH HIGH SCHOOL
MADERA UNIFIED SCHOOL DISTRICT
705 W PECAN AVE, MADERA, CA 93637

DATE: 04/26/2024 SHEET TITLE:

PROVOST& PRITCHARD

PARRISH HANSEN

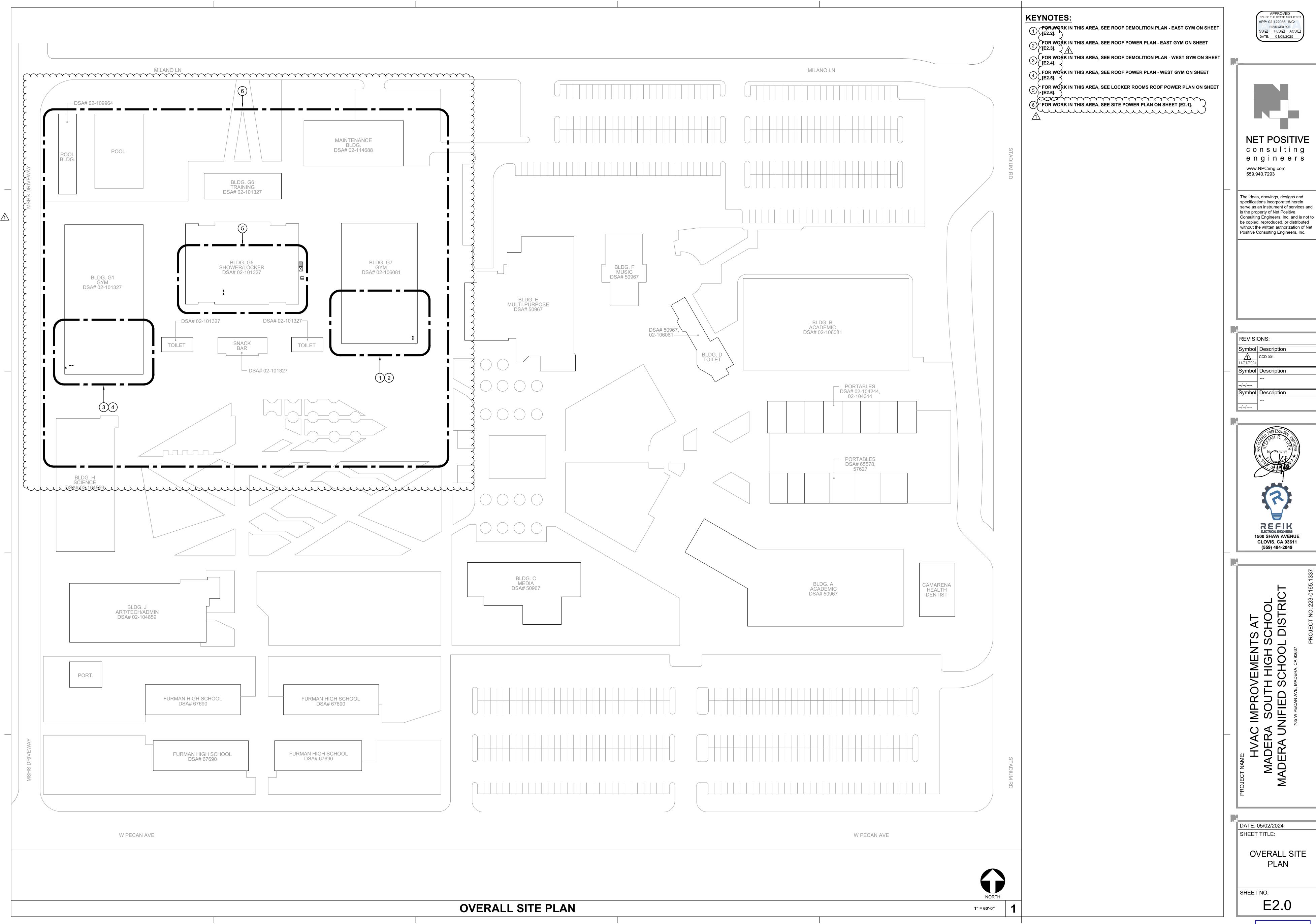
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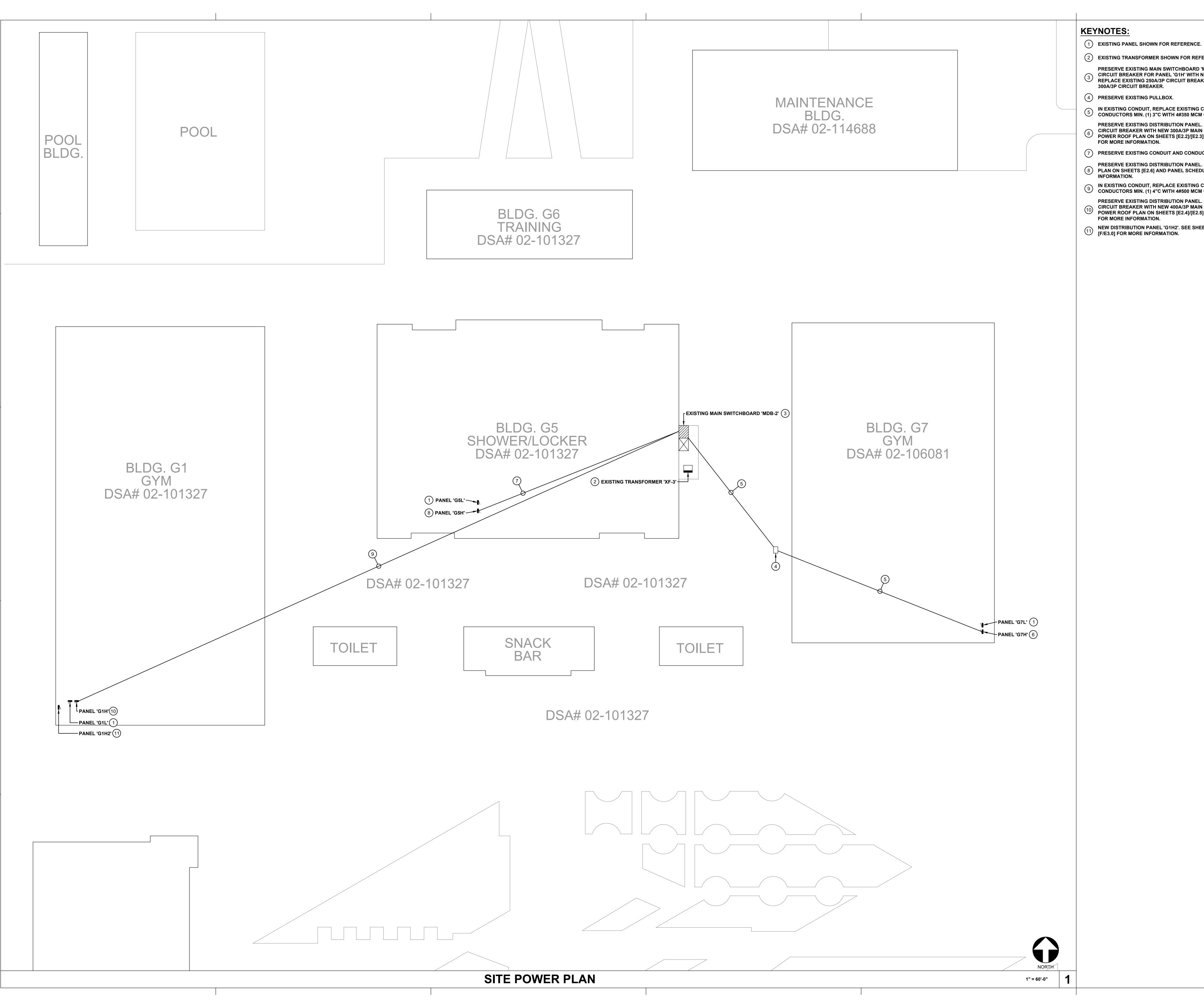
https://provostandpritchard.com/

PARTIAL ROOF FRAMING PLAN -LOCKER ROOMS

SHEET NO: **\$520**

D04.40





(2) EXISTING TRANSFORMER SHOWN FOR REFERENCE.

PRESERVE EXISTING MAIN SWITCHBOARD 'MDB-2'. REPLACE EXISTING 300A/3P 3 CIRCUIT BREAKER FOR PANEL 'G1H' WITH NEW 400A/3P CIRCUIT BREAKER. REPLACE EXISTING 250A/3P CIRCUIT BREAKER FOR PANEL 'G7H' WITH NEW

5 IN EXISTING CONDUIT, REPLACE EXISTING CONDUCTORS WITH NEW CONDUCTORS MIN. (1) 3"C WITH 4#350 MCM CU AND 1#4 CU GND.

PRESERVE EXISTING DISTRIBUTION PANEL. REPLACE EXISTING 225A/3P MAIN CIRCUIT BREAKER WITH NEW 300A/3P MAIN CIRCUIT BREAKER. SEE DEMO AND POWER ROOF PLAN ON SHEETS [E2.2]/[E2.3] AND PANEL SCHEDULE ON [E/E3.0]

7) PRESERVE EXISTING CONDUIT AND CONDUCTORS. (NO CHANGES)

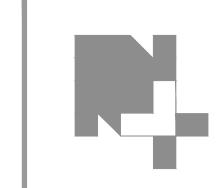
PRESERVE EXISTING DISTRIBUTION PANEL. SEE DEMO AND POWER ROOF (8) PLAN ON SHEETS [E2.6] AND PANEL SCHEDULE ON [D/E3.0] FOR MORE

9 IN EXISTING CONDUIT, REPLACE EXISTING CONDUCTORS WITH NEW CONDUCTORS MIN. (1) 4"C WITH 4#500 MCM CU AND 1#4 CU GND.

PRESERVE EXISTING DISTRIBUTION PANEL. REPLACE EXISTING 300A/3P MAIN CIRCUIT BREAKER WITH NEW 400A/3P MAIN CIRCUIT BREAKER. SEE DEMO AND POWER ROOF PLAN ON SHEETS [E2.4]/[E2.5] AND PANEL SCHEDULE ON [C/E3.0]

NEW DISTRIBUTION PANEL 'G1H2'. SEE SHEET [E2.5] AND PANEL SCHEDULE ON [F/E3.0] FOR MORE INFORMATION.

APPROVED DIV. OF THE STATE ARCHITE APP: 02-122086 INC: REVIEWED FOR SS FLS ACS DATE: 01/08/2025

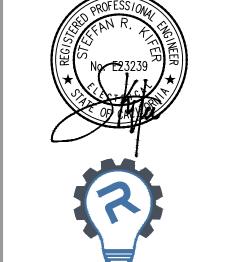


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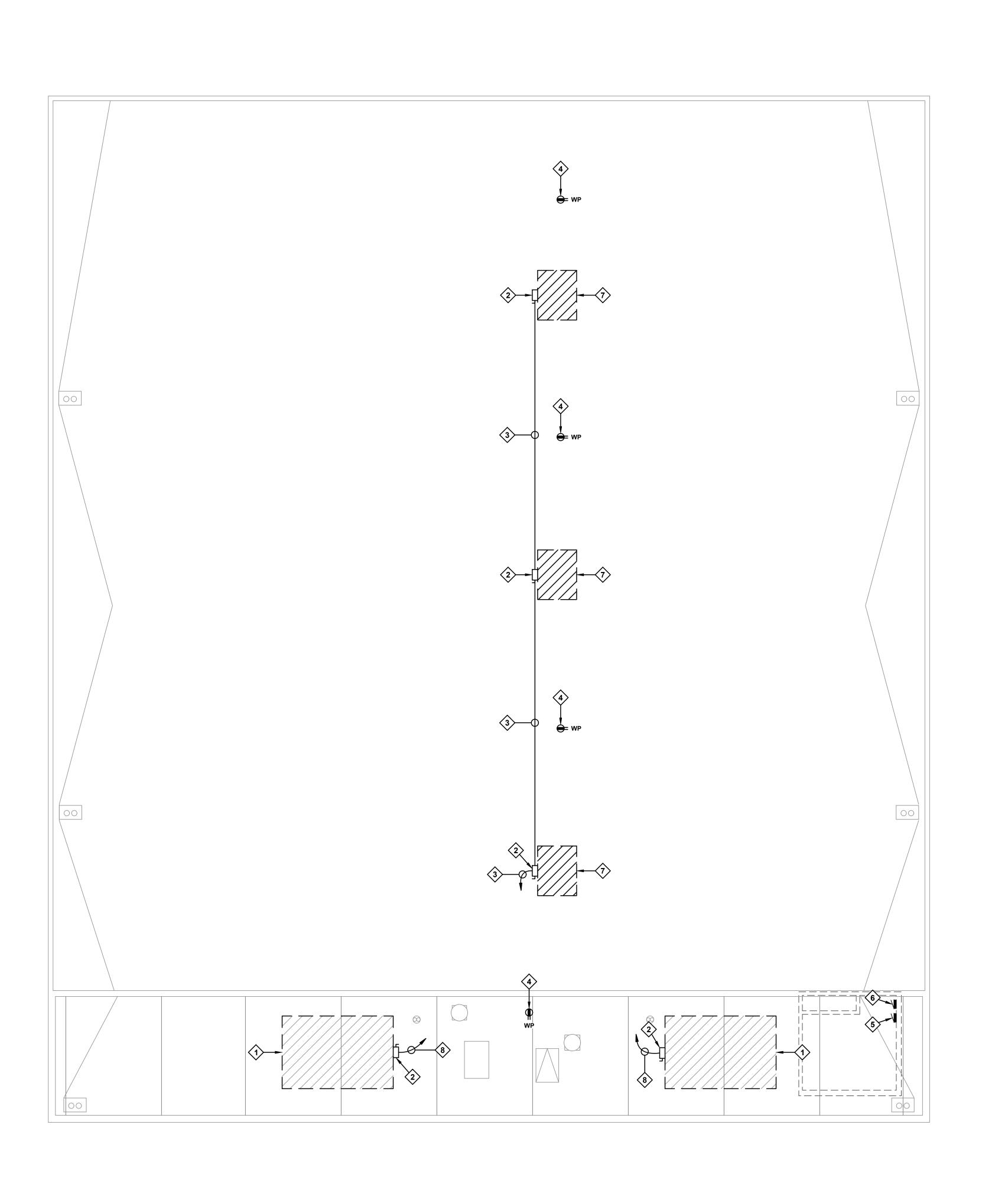
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REFIK ELECTRICAL ENGINEERS 1500 SHAW AVENUE CLOVIS, CA 93611 (559) 484-2049

DATE: 05/02/2024 SHEET TITLE:

SITE POWER PLAN

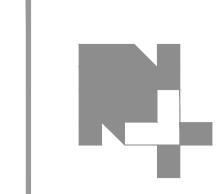




- DISCONNECT EXISTING MAKE UP AIR UNIT FOR DEMOLITION. DEMO EXISTING CONDUIT AND CONDUCTORS BETWEEN DISCONNECT AND MECHANICAL UNIT.
- DEMO EXISTING ROOFTOP MECHANICAL UNIT DISCONNECT.
- PRESERVE EXISTING CONDUIT AND DEMO EXISTING CONDUCTORS.
- PRESERVE EXISTING ROOFTOP WEATHER RESISTANT GFCI RECEPTACLE.
- PRESERVE EXISTING PANEL 'G7H', LOCATED IN ELECTRICAL ROOM. DEMO EXISTING 225A/3P MAIN CIRCUIT BREAKER.
- PRESERVE EXISTING PANEL 'G7L', LOCATED IN ELECTRICAL ROOM.
- DISCONNECT EXISTING EXHAUST FAN FOR DEMOLITION. DEMO EXISTING CONDUIT AND CONDUCTORS BETWEEN DISCONNECT AND MECHANICAL
- S DEMO EXISTING CONDUIT AND CONDUCTORS.

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IMPROVEMENTS AT
SOUTH HIGH SCHOOL
NIFIED SCHOOL DISTRICT

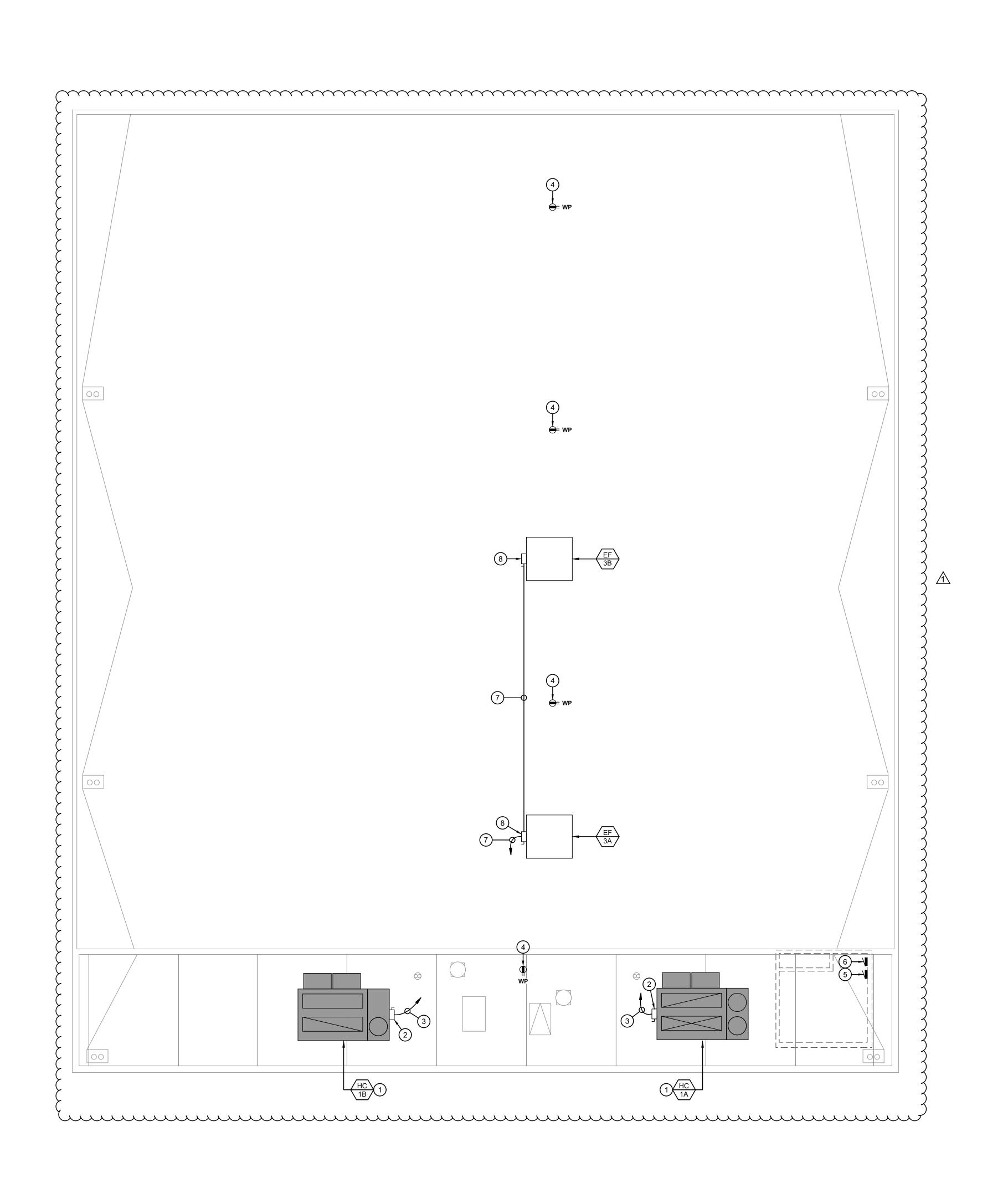
PROJECT NO: 223-0165.137

DATE: 05/02/2024

ROOF DEMOLITION PLAN - EAST GYM

SHEET NO:

E2.2

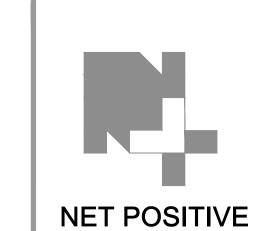


POWER KEYNOTES:

- NEW AIR HANDLER. TERMINATE NEW AIR HANDLER BRANCH CIRCUIT PER MANUFACTURER'S REQUIREMENTS.
- PROVIDE NEW 100A, 600V, 3-POLE, NEMA 3R FUSED DISCONNECT. SIZE
- FUSES PER MECHANICAL UNIT NAMEPLATE. PROVIDE (1) 1" FLEX CONDUIT WITH 3#4 CU AND 1#8 CU GND BETWEEN NEW DISCONNECT AND NEW AIR HANDLER.
- 3 PROVIDE (1) 1"C WITH 3#4 CU AND 1#8 CU GND.
- (4) EXISTING ROOFTOP WEATHER RESISTANT GFCI RECEPTACLE.
- EXISTING PANEL 'G7H', LOCATED IN ELECTRICAL ROOM. REPLACE EXISTING 225A/3P MAIN CIRCUIT BREAKER WITH 300A/3P MAIN CIRCUIT BREAKER. SEE PANEL SCHEDULE ON SHEET [E/E3.0].
- 6 EXISTING PANEL 'G7L', LOCATED IN ELECTRICAL ROOM (NO CHANGES).
- PROVIDE NEW CONDUCTORS IN EXISTING CONDUIT MIN. 3/4"C WITH 3#12 CU AND 1#12 CU GND. FIELD VERIFY EXISTING CONDUIT SIZE. TERMINATE ON EXISTING CIRCUIT BREAKER.
- PROVIDE NEW 30A, 600V, 3-POLE, NEMA 3R FUSED DISCONNECT. SIZE FUSES
 PER MECHANICAL UNIT NAMEPLATE. PROVIDE (1) 3/4" FLEX CONDUIT WITH
 3#12 CU AND 1#12 CU GND BETWEEN NEW DISCONNECT AND NEW EXHAUST
 FAN. INTERLOCK EXHAUST FANS PER MECHANICAL PLANS.

A





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HVAC IMPROVEMENTS AT
DERA SOUTH HIGH SCHOOL
ERA UNIFIED SCHOOL DISTRICT
705 W PECAN AVE, MADERA, CA 93637

DATE: 05/02/2024

ROOF POWER PLAN - EAST GYM

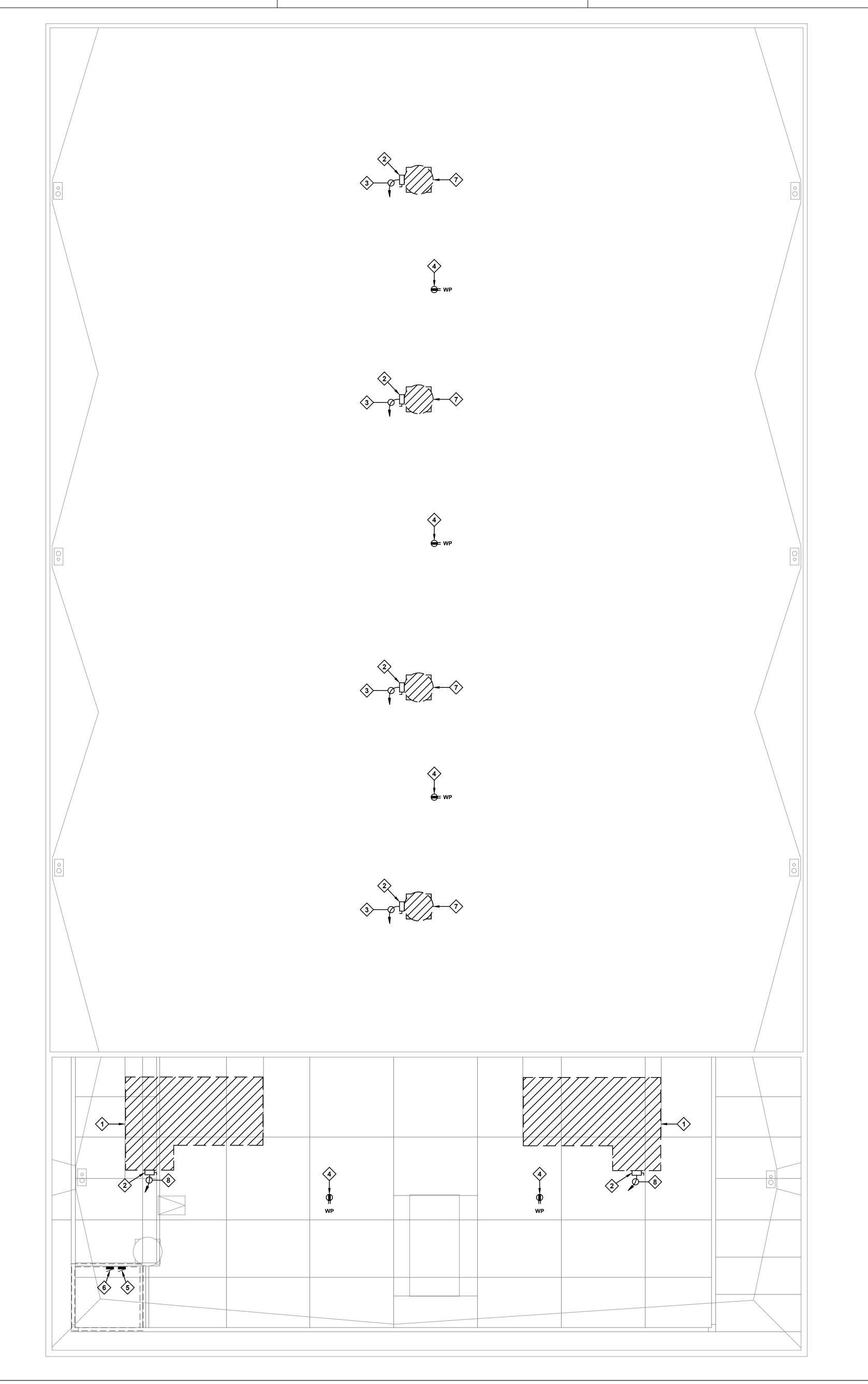
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E2.3

ROOF POWER PLAN - EAST GYM

1/8" = 1'-0"

\D01-17





- DISCONNECT EXISTING AIR HANDLER FOR DEMOLITION. DEMO EXISTING CONDUIT AND CONDUCTORS BETWEEN DISCONNECT AND MECHANICAL UNIT.
- DEMO EXISTING ROOFTOP MECHANICAL UNIT DISCONNECT.
- PRESERVE EXISTING CONDUIT AND DEMO EXISTING CONDUCTORS.
- PRESERVE EXISTING ROOF TOP WEATHER RESISTANT GFCI RECEPTACLE.

 PRESERVE EXISTING PANEL 'G1H', LOCATED IN ELECTRICAL ROOM. VERIFY

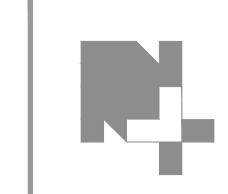
 EXISTING 'CAH' CIRCUITS 25/27/29 AND 31/33/35 SERVE EXISTING 'CAH' UNITS

 BEING REPLACED. DEMO EXISTING 'CAH' BREAKERS. DEMO EXISTING 300A/3P

 MAIN CIRCUIT BREAKER.
- PRESERVE EXISTING PANEL 'G1L', LOCATED IN ELECTRICAL ROOM. VERIFY
 EXISTING 'EF' CIRCUITS 4/6, 8/10, 12/14, AND 16/18 SERVE EXISTING 'EF' UNITS
 BEING REPLACED. DEMO EXISTING 'EF' BREAKERS.
- DISCONNECT EXISTING EXHAUST FAN FOR DEMOLITION. DEMO EXISTING CONDUIT AND CONDUCTORS BETWEEN DISCONNECT AND MECHANICAL UNIT.
- DEMO EXISTING CONDUIT AND CONDUCTORS.

minimi





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REVISIONS:

Symbol Description

CCD 001

11/27/2024

Symbol Description

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Symbol Description
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IMPROVEMENTS AT
SOUTH HIGH SCHOOL
IFIED SCHOOL DISTRICT

SW PECAN AVE, MADERA, CA 93637
PROJECT NO: 223-0165.1337

DATE: 05/02/2024
SHEET TITLE:

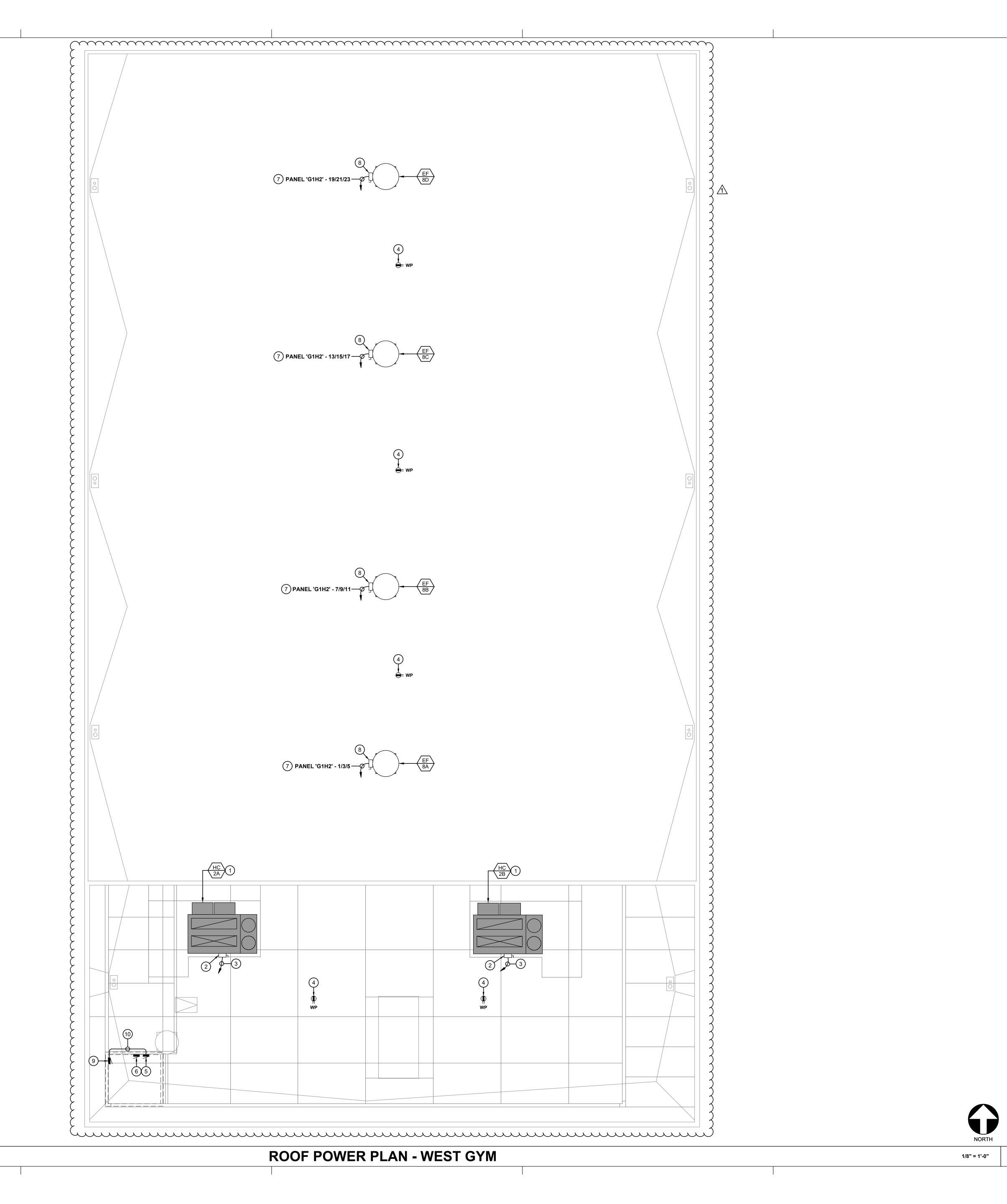
ROOF DEMOLITION PLAN - WEST GYM

SHEET NO:

E2.4

ROOF DEMOLITION PLAN - WEST GYM

1/8" = 1'-0"





PROVIDE NEW 200A, 600V, 3-POLE, NEMA 3R FUSED DISCONNECT. SIZE FUSES PER MECHANICAL UNIT NAMEPLATE. PROVIDE (1) 1-1/4" FLEX CONDUIT WITH

3#2 CU AND 1#6 CU GND BETWEEN NEW DISCONNECT AND NEW AIR HANDLER.

EXISTING PANEL 'G1H', LOCATED IN ELECTRICAL ROOM. REPLACE EXISTING 40A/3P AIR HANDLER BRANCH CIRCUIT BREAKERS WITH 110A/3P CIRCUIT

PROVIDE NEW CONDUCTORS IN EXISTING CONDUIT. FIELD VERIFY EXISTING CONDUIT SIZE PRIOR TO CONSTRUCTION. IN ELECTRICAL ROOM, INTERCEPT AND EXTEND EXISTING CONDUIT TO NEW PANEL 'G1H2'. MIN. 3/4"C WITH 3#12

PROVIDE NEW 30A, 600V, 3-POLE, NEMA 3R FUSED DISCONNECT. SIZE FUSES
PER MECHANICAL UNIT NAMEPLATE. PROVIDE (1) 3/4" FLEX CONDUIT WITH

3#12 CU AND 1#12 CU GND BETWEEN NEW DISCONNECT SWITCH AND NEW

9 PROVIDE 100A MAIN, 100A BUS, 277/480V, 3Ø, NEMA 1 DISTRIBUTION PANEL 'G1H2'. SEE PANEL SCHEDULE ON SHEET [F/E3.0].

Limin Lings of the contract of

40A/3P AIR HANDLER BRANCH CIRCUIT BREAKER WITH BREAKERS. REPLACE EXISTING 300A/3P MAIN CIRCUIT BREAKER WITH 400A/3P CIRCUIT BREAKER. SEE PANEL SCHEDULE ON SHEET [C/E3.0].

CU AND 1#12 CU GND. TERMINATE ON NEW CIRCUIT BREAKER.

(3) PROVIDE (1) 1-1/4"C WITH 3#2 CU AND 1#6 CU GND.

(4) EXISTING ROOFTOP WEATHER RESISTANT GFCI RECEPTACLE.

(6) EXISTING PANEL 'G1L', LOCATED IN ELECTRICAL ROOM.

(10) PROVIDE (1) 1-1/4"C WITH 4#3 CU AND 1#8 CU GND.

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PROFESS/ONAL PROFE

REFIK ELECTRICAL ENGINEERS 1500 SHAW AVENUE CLOVIS, CA 93611 (559) 484-2049

UTH HIGH SCHOOL

ED SCHOOL DISTRICT

ANAVE, MADERA, CA 93637

PROJECT NO: 223-0165.1337

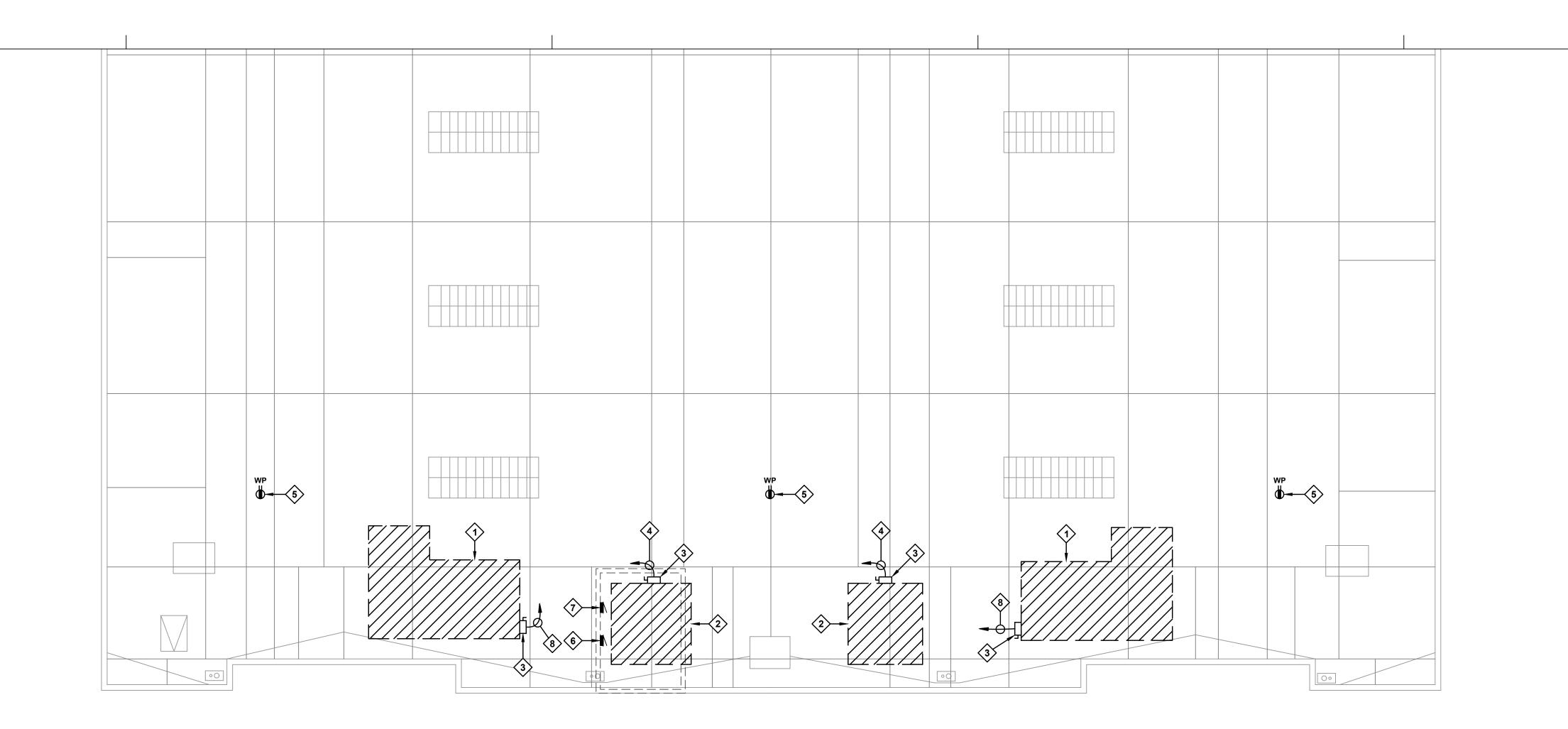
DATE: 05/02/2024

ROOF POWER PLAN - WEST GYM

SHEET NO:

SHEET TITLE:

E2.5



DEMOLITION KEYNOTES:

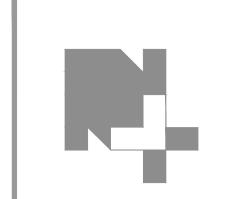
- DISCONNECT EXISTING AIR HANDLER FOR DEMOLITION. DEMO EXISTING CONDUIT AND CONDUCTORS BETWEEN DISCONNECT AND MECHANICAL UNIT.
- DISCONNECT EXISTING AIR HANDLER EXHAUST FAN FOR DEMOLITION. DEMO

 (2) EXISTING CONDUIT AND CONDUCTORS BETWEEN DISCONNECT AND MECHANICAL UNIT.
- 3 DEMO EXISTING ROOFTOP MECHANICAL UNIT DISCONNECT.
- PRESERVE EXISTING CONDUIT AND DEMO EXISTING CONDUCTOR.
- 5 PRESERVE EXISTING ROOFTOP WEATHER RESISTANT GFCI RECEPTACLE.
- 6 PRESERVE EXISTING PANEL 'G5H', LOCATED IN ELECTRICAL ROOM. DEMO EXISTING 40A/3P AIR HANDLER CIRCUIT BREAKERS.
- 7 PRESERVE EXISTING PANEL 'G5L', LOCATED IN ELECTRICAL ROOM.
- **8** DEMO EXISTING CONDUIT AND CONDUCTORS.

- POWER KEYNOTES: NEW AIR HANDLER. TERMINATE NEW AIR HANDLER BRANCH CIRCUIT PER MANUFACTURER'S REQUIREMENTS.
- NEW AIR HANDLER EXHAUST FAN. TERMINATE NEW AIR HANDLER EXHAUST FAN BRANCH CIRCUIT PER MANUFACTURER'S REQUIREMENTS.
- PROVIDE NEW 30A, 600V, 3-POLE, NEMA 3R FUSED DISCONNECT. SIZE FUSES PER MECHANICAL UNIT NAMEPLATE. PROVIDE (1) 3/4" FLEX CONDUIT WITH NEW CONDUCTORS BETWEEN NEW DISCONNECT AND NEW EXHAUST FAN, MI NEW CONDUCTORS BETWEEN NEW DISCONNECT AND NEW EXHAUST FAN, MIN. \downarrow 3#12 CU AND 1#12 CU GND.
- PROVIDE NEW 60A, 600V, 3-POLE, NEMA 3R FUSED DISCONNECT. SIZE FUSES PER MECHANICAL UNIT NAMEPLATE. PROVIDE (1) 3/4" FLEX CONDUIT WITH NEW CONDUCTORS BETWEEN NEW DISCONNECT AND NEW AIR HANDLER MIN. 3#8 CU AND 1#10 CU GND.
- IN EXISTING CONDUIT, PROVIDE NEW CONDUCTORS FROM EXHAUST FAN TO DISTRIBUTION PANEL 'G5H', MIN. 3/4"C WITH 3#12 CU AND 1#12 CU GND. TERMINATE ON EXISTING CIRCUIT BREAKER. SEE DETAILS [A/E3.0] & [B/E3.0].
- (6) EXISTING ROOFTOP WEATHER RESISTANT GFCI RECEPTACLE.
- PRESERVE EXISTING PANEL 'G5H', LOCATED IN ELECTRICAL ROOM. RING-OUT & PROVIDE PANEL REGISTER FOR EXISTING CIRCUITS.
- 8 PRESERVE EXISTING PANEL 'G5L', LOCATED IN ELECTRICAL ROOM. (NO CHANGES)
- 9 PROVIDE NEW 3/4"C WITH 3#8 CU AND 1#10 CU GND FROM AIR HANDLER UNIT TO DISTRIBUTION PANEL 'G5H'. SEE DETAILS [A/E3.0] & [B/E3.0].



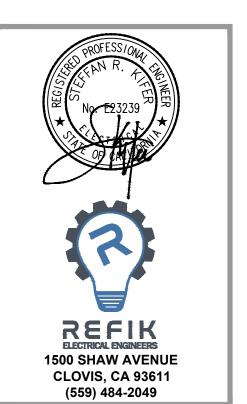




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REVISIONS: CCD 001 Symbol Description

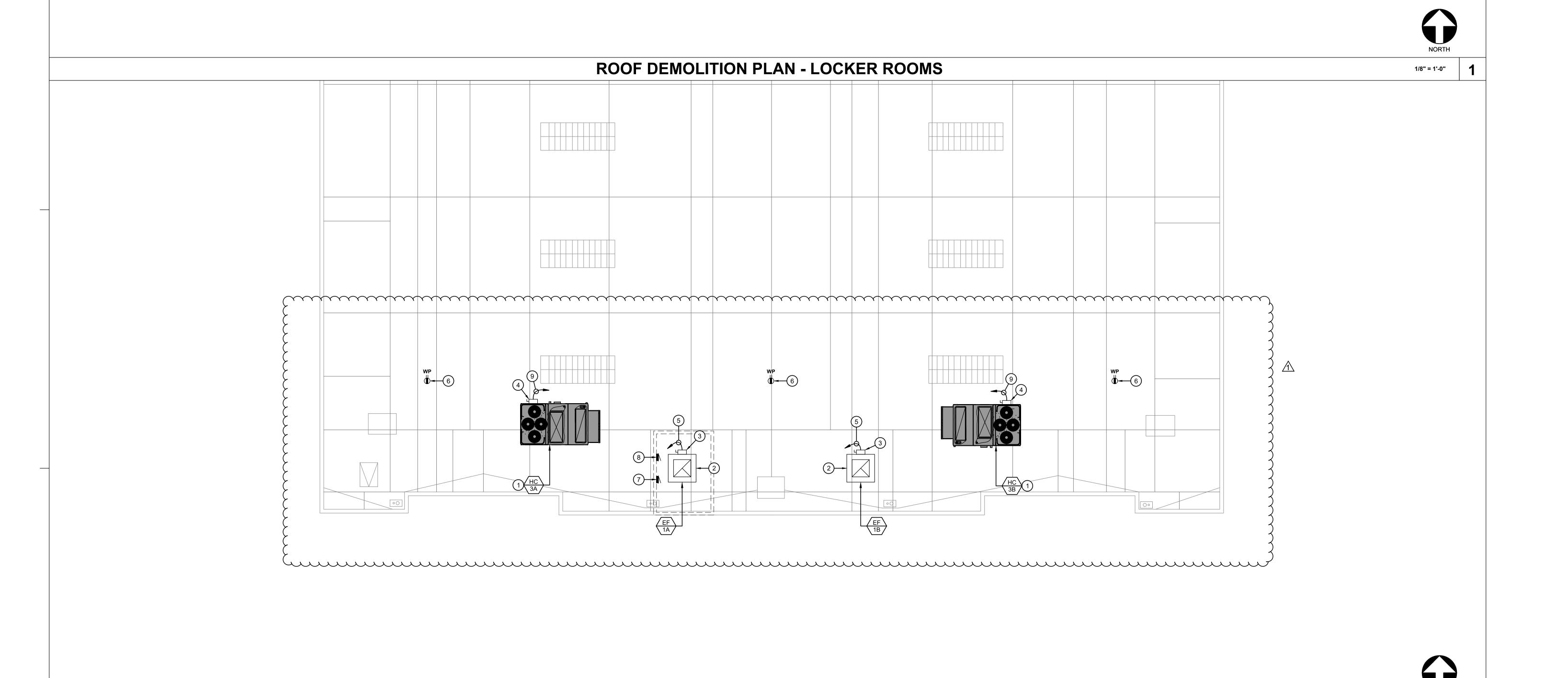


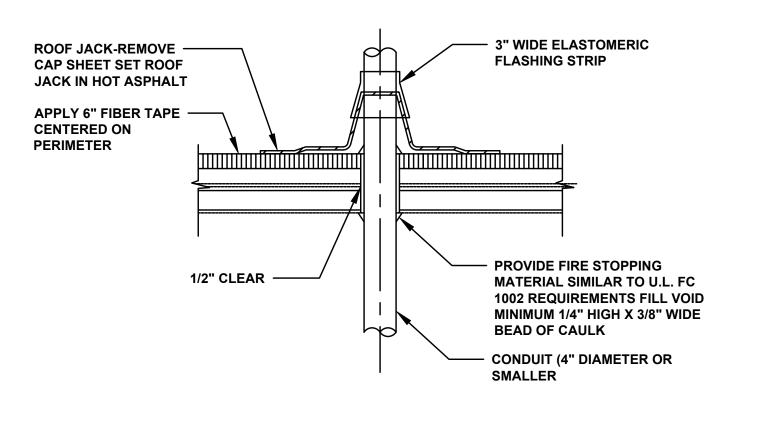
DATE: 05/02/2024

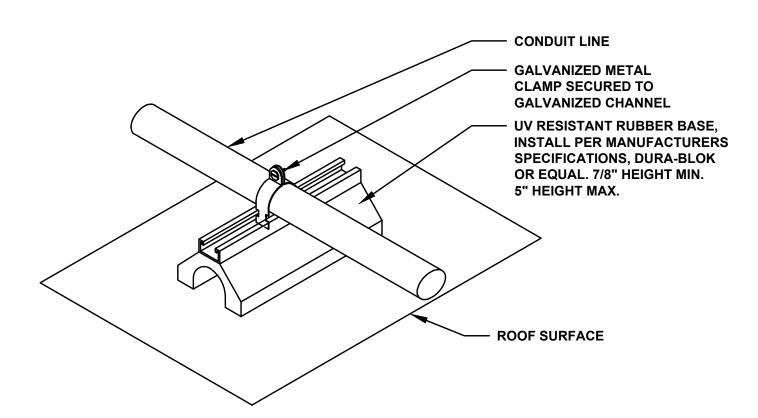
ROOF POWER PLAN - LOCKER ROOMS

SHEET NO:

E2.6







<u>DETAIL NOTE:</u>
SIMILAR TO U.L. FIRE RESISTANCE DIRECTORY SYSTEM F-C-1002

CONDUIT THRU ROOF DETAIL E3.0 NO SCALE

B ROOF PIPE SUPPORT E3.0 NO SCALE

Site Nan	20.	MUSDM	adera Sou	th HS			MANUFA	CTURER.	GE									
Panel Na			auera 30u 31H	ui no		1	PHASE:	CTOKEK.	3				WIRE:			4		
VOLTAGE			480	Volts AC		_	BUS RAT	ING:		AMPS			,					
MAIN BRI			AMPS				KAIC:		22									
MOUNT:		Surface																
ENCLOS		NEM A 1																
PANEL S	TATUS:	Existing	Τ															
СКТ	LOAD DESCRIPTION	BREAKER AMPS	BREAKER POLES	BREAKER STATUS		DEMAND FACTOR	USAGE FACTOR	PHASE A VA	PHASE B VA	PHASE C VA	USAGE FACTOR		SERVICE LOAD VA	BREAKER STATUS	BREAKER POLES	BREAKER AMPS	LOAD DESCRIPTION	СКТ
1	East Gym Lights	20	1	Ex.	2300	1.00	1.00	4600			1.00	1.00	2300	Ex.	1	20	West Gym Lights	2
3	East Gym Lights	20	1	Ex.	2300	1.00	1.00		4600		1.00	1.00	2300	Ex.	1	20	West Gym Lights	4
5	East Gym Lights	20	1	Ex.	2000	1.00	1.00			4000	1.00	1.00	2000	Ex.	1	20	West Gym Lights	6
7	East Gym Lights	20	1	Ex.	2000	1.00	1.00	4000			1.00	1.00	2000	Ex.	1	20	West Gym Lights	8
9	Center Gym Lights	20	1	Ex.	2000	1.00	1.00		4000		1.00	1.00	2000	Ex.	1	20	Center Gym Lights	10
11	Center Gym Lights	20	1	Ex.	2000	1.00	1.00			4000	1.00	1.00	2000	Ex.	1	20	Center Gym Lights	12
13	Center Gym Lights	20	1	Ex.	1500	1.00	1.00	3000			1.00	1.00	1500	Ex.	1	20	Center Gym Lights	14
15	Center Gym Lights	20	1	Ex.	1500	1.00	1.00		3000		1.00	1.00	1500	Ex.	1	20	Center Gym Lights	16
17	Center Gym Lights	20	1	Ex.	2000	1.00	1.00			4000	1.00	1.00	2000	Ex.	1	20	Center Gym Lights	18
19	Center Gym Lights	20	1	Ex.	2000	1.00	1.00	4000			1.00	1.00	2000	Ex.	1	20	Center Gym Lights	20
21	Spare	20	1	Ex.		1.00	1.00		4094		1.00	1.00	4094	Ex.	1	20	East Soffit Gym Lights	22
23	Spare	20	1	Ex.		1.00	1.00			3090	1.00	1.00	3090	Ex.	1	20	Rm. 102, 103, 104 Lights	24
25					24665	1.00	1.00	33089			1.00	1.00	8424					26
27	HC-2A	110	3	New	24665	1.00	1.00		33089		1.00	1.00	8424	New	3	100	Sub Panel 'G1H2	28
29					24665	1.00	1.00			33089	1.00	1.00	8424					30
31					24665	1.00	1.00	24665			1.00	1.00		Ex.	1	20	Spare	32
33	HC-2B	110	3	New	24665	1.00	1.00		24665		1.00	1.00		Ex.	1	20	Spare	34
35					24665	1.00	1.00			29165	1.00	1.00	4500	Ex.	1	40	Lighting Invterter System	36
37					7120	1.00	1.00	16538			1.00	1.00	9418					38
39	Transformer 'TG1"	70	3	Ex.	8220	1.00	1.00		17638		1.00	1.00	9418	Ex.	3	40	Package Air Cond. Unit (HC-4)	40
41					6860	1.00	1.00			16278	1.00	1.00	9418					42
									PHASE B	PHASE C								
								89892	91086	93622								
										TOTAL		274.60 330.29						

C PANEL 'G1H' SCHEDULE
E3.0 NO SCALE

Site Nar		MUCDIA	ladara Car	45 110			MANUFA	CTUDED.	GE									
Panel Na			ladera Sou 37H	ıtn HS			PHASE:	CIURER:	3				WIRE:			4		
VOLTAGI			480	Volts AC			BUS RAT	ING:		AMPS			WIIKE.			7		
MAIN BR			AMPS				KAIC:		22									
MOUNT:		Surface																
	JRE TYPE:	NEMA 1																
PANEL S	TATUS:	New																
СКТ	LOAD DESCRIPTION	BREAKER AMPS	BREAKER POLES	BREAKER STATUS				PHASE A VA	PHASE B VA	PHASE C VA	USAGE FACTOR		SERVICE LOAD VA	BREAKER STATUS	BREAKER POLES	BREAKER AMPS	LOAD DESCRIPTION	СКТ
1	South Gym Lights	20	1	Ex.	2760	1.00	1.00	5520			1.00	1.00	2760	Ex.	1	20	North Gym Lights	2
3	West Gym Lights	20	1	Ex.	2415	1.00	1.00		4830		1.00	1.00	2415	Ex.	1	20	East Gym Lights	4
5	South Center Gym Lights	20	1	Ex.	2150	1.00	1.00			5160	1.00	1.00	3010	Ex.	1	20	East Gym Lights	6
7	South Center Gym Lights	20	1	Ex.	2150	1.00	1.00	3030			1.00	1.00	880	Ex.	1	20	Center Gym Lights	8
9	North Center Gym Lights	20	1	Ex.	2150	1.00	1.00		5160		1.00	1.00	3010	Ex.	1	20	West Center Gym Lights	10
11	North Center Gym Lights	20	1	Ex.	2150	1.00	1.00			2150	1.00	1.00		Ex.	1	20	Spare	12
13	LCP G7	20	1	Ex.	360	1.00	1.00	360			1.00	1.00		Ex.	1	20	Spare	14
15	Spare	20	1	Ex.		1.00	1.00		0		1.00	1.00		Ex.	1	20	Spare	16
17	Spare	20	1	Ex.		1.00	1.00			0	1.00	1.00		Ex.	1	20	Spare	18
19	Spare	20	1	Ex.		1.00	1.00	1035			1.00	1.00	1035	Ex.	1	20	Weight Rm. Lights	20
21	Wrestling & Ele. Rm. Lights	20	1	Ex.	100	1.00	1.00		1636		1.00	1.00	1536	Ex.	1	20	Exterior Lights on TC & PC	22
23	Weight Rm. Exit Lights	20	1	Ex.	150	1.00	1.00			150	1.00	1.00		Ex.	1	20	Spare	24
25					21063	1.00	1.00	42126			1.00	1.00	21063					26
27	HC-1A	90	3	New	21063	1.00	1.00		42126		1.00	1.00	21063	New	3	90	HC-1B	28
29					21063	1.00	1.00			42126	1.00	1.00	21063					30
31					1884	1.00	1.00	1884			1.00	1.00		Ex.	1	20	Spare	32
33	Exhaust Fans (EF-3A, EF-3B)	20	3	Ex.	1884	1.00	1.00		1884		1.00	1.00		Ex.	1	20	Spare	34
35					1884	1.00	1.00			6384	1.00	1.00	4500	Ex.	1	30	Invterter	36
37					8083	1.00	1.00	9413			1.00	1.00	1330					38
39	Transformer 'TG7"	70	3	Ex.	8764	1.00	1.00		10094		1.00	1.00	1330	Ex.	3	15	Ex haust Fan (EF-2)	40
41					7943	1.00	1.00			9273	1.00	1.00	1330					42
								PHASE A	PHASE B									
								63368	65730	65243		404.04	1					
										TOTAL		194.34 233.76						
											AIVIPS	233./6	l					

E PANEL 'G7H' SCHEDULE

E3.0 NO SCALE

Site Nar	ne:		adera Sou	th HS			MANUFA	CTURER:	GE									
Panel Na			5H				PHASE:		3				WIRE:			4		
/OLTAG			480	Volts AC			BUS RAT	TNG:		AMPS								
MAIN BR	EAKER:		AMPS				KAIC:		22									
MOUNT:	IDE TVDE	Surface																
PANEL S	JRE TYPE:	NEMA 1 Existing																
			BREAKER POLES		SERVICE LOAD VA				PHASE B	PHASE C			SERVICE LOAD VA	BREAKER	BREAKER POLES	BREAKER AMPS		CKT
CKT 1	LOAD DESCRIPTION Lights, N.E.	20	1	Ex.	2330	1.00	1.00	VA 4028		VA	1.00	1.00	1698	Ex.	1 1	20	LOAD DESCRIPTION Lights, S.E.	CKT 2
	-		1		1090			4028			1.00		614					
3	Lights, N.W.	20		Ex.		1.00	1.00		1704			1.00		Ex.	1	20	Lights, S.W.	4
5	Lights, S. Shower	20	1	Ex.	3602	1.00	1.00			7204	1.00	1.00	3602	Ex.	1	20	Lights, N. Shower	6
7	Walkway Lights on P.C. & T.C.	20	1	Ex.	815	1.00	1.00	815			1.00	1.00		Ex.	1	20	Spare	8
9	Walkway Lights on P.C. & T.C.	20	1	Ex.	1200	1.00	1.00		1200		1.00	1.00		Ex.	1	20	Spare	10
11	Spare	20	1	Ex.		1.00	1.00			0	1.00	1.00		Ex.	1	20	Spare	12
13	Spare	30	1	Ex.		1.00	1.00	11751			1.00	1.00	11751					14
15	Spare	20	1	Ex.		1.00	1.00		11751		1.00	1.00	11751	New	3	50	HC-3A	16
17	Spare	20	1	Ex.		1.00	1.00			11751	1.00	1.00	11751					18
19	Spare	20	1	Ex.		1.00	1.00	11751			1.00	1.00	11751					20
21	Spare	20	1	Ex.		1.00	1.00		11751		1.00	1.00	11751	New	3	50	HC-3B	22
23	Spare	20	1	Ex.		1.00	1.00			11751	1.00	1.00	11751					24
25					943	1.00	1.00	3049			1.00	1.00	2106					26
27	- EF-6A	15	3	Ex.	943	1.00	1.00		3049		1.00	1.00	2106	New	3	20	EF-1A	28
29	-				943	1.00	1.00			3049	1.00	1.00	2106					30
31					943	1.00	1.00	3049			1.00	1.00	2106					32
33	EF-6A	15	3	Ex.	943	1.00	1.00		3049		1.00	1.00	2106	New	3	20	EF-1B	34
35					943	1.00	1.00			3049	1.00	1.00	2106					36
37					14406	1.00	1.00	14406		30.0	1.00	1.00		Ex.	1	20	Unlabeled	38
39	Transformer 'TG5"	100	3	Ex.	14110	1.00	1.00	14400	14110		1.00	1.00		Ex.	1	20	Unlabeled	40
	Transionner 165	100	3	EX.					14110			115 115						
41					10716	1.00	1.00	PHASE A	PHASE B	10716 PHASE C	1.00	1.00		Ex.	1	20	Unlabeled	42
								48849			VA							
								.0010			KVA	142.98						
										TOTAL		171.98	1					

D PANEL 'G5H' SCHEDULE
E3.0 NO SCALE

ite Nam	ne:	MUSD M	adera Sou	th HS			MANUFA	CTURER:	SQUARE D	OR EQUAL							
anel Naı	ne:		1H2				PHASE:		3			WIRE:			4		
OLTAGE		277/		Volts AC			BUS RAT	ING:		AMPS							
IAIN BRE	AKER:	100	AMPS				KAIC:		22								
IOUNT:		Surface															
	RE TYPE:	NEMA 1															
ANEL ST	TATUS:	New	1														
СКТ	LOAD DESCRIPTION	BREAKER AMPS	BREAKER POLES			DEMAND FACTOR			PHASE B VA	PHASE C VA		DEMAND SERVI FACTOR LOAD		BREAKER POLES	BREAKER AMPS	LOAD DESCRIPTION	ск
1					2106	1.00	1.00	2106			1.00	1.00	_	_	_	_	2
3	EF-8A	15	3	New	2106	1.00	1.00		2106		1.00	1.00	_	_	_	_	4
5					2106	1.00	1.00			2106	1.00	1.00	_	_	_	_	6
7					2106	1.00	1.00	2106			1.00	1.00	_	_	_	_	8
9	EF-8B	15	3	New	2106	1.00	1.00		2106		1.00	1.00	_	_	_	_	10
11					2106	1.00	1.00			2106	1.00	1.00	_	_	_	_	12
13					2106	1.00	1.00	2106			1.00	1.00	_	_	_	_	14
15	EF-8C	15	3	New	2106	1.00	1.00		2106		1.00	1.00	_	_	_	_	10
17					2106	1.00	1.00			2106	1.00	1.00	_	_	_	_	1
19					2106	1.00	1.00	2106			1.00	1.00	_	_	_	_	2
21	EF-8D	15	3	New	2106	1.00	1.00		2106		1.00	1.00	_	_	_	_	22
23					2106	1.00	1.00			2106	1.00	1.00	_	_	_	_	24
25	1	_	_	_		1.00	1.00	0			1.00	1.00	_	_	_	_	2
27	_		_	_		1.00	1.00		0		1.00	1.00		_	_	_	2
29	_		_	_		1.00	1.00			0	1.00	1.00	_	_	_	_	30
31	_	_	_	_		1.00	1.00	0			1.00	1.00	_	_	_	_	32
33	_			_		1.00	1.00		0		1.00	1.00		_	_	_	3
35	_		_	_		1.00	1.00			0	1.00	1.00		_	_	_	30
37	_			_		1.00	1.00	0			1.00	1.00	_	_	_	_	3
39	_	_				1.00	1.00		0		1.00	1.00	_	_	_	_	40
41	_	_				1.00	1.00			0	1.00	1.00	_	_	_	_	42
								8424	8424	8424							
										TOTAL	KVA	25.27					

F PANEL 'G1H2' SCHEDULE
E3.0 NO SCALE



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REVISIONS: Symbol Description Symbol Description Symbol Description



DETAILS &

DATE: 05/02/2024 SHEET TITLE:

SCHEDULES

SHEET NO: E3.0