1/8" = 1'-0"

GRAPHIC SCALES:

# SAN RAFAEL HIGH SCHOOL BLDG LA HVAC UPGRADES

150 3RD STREET, SAN RAFAEL, CA 94901

FILE: 21-H1 APPL: 116479

1 1/2" = 1'-0"



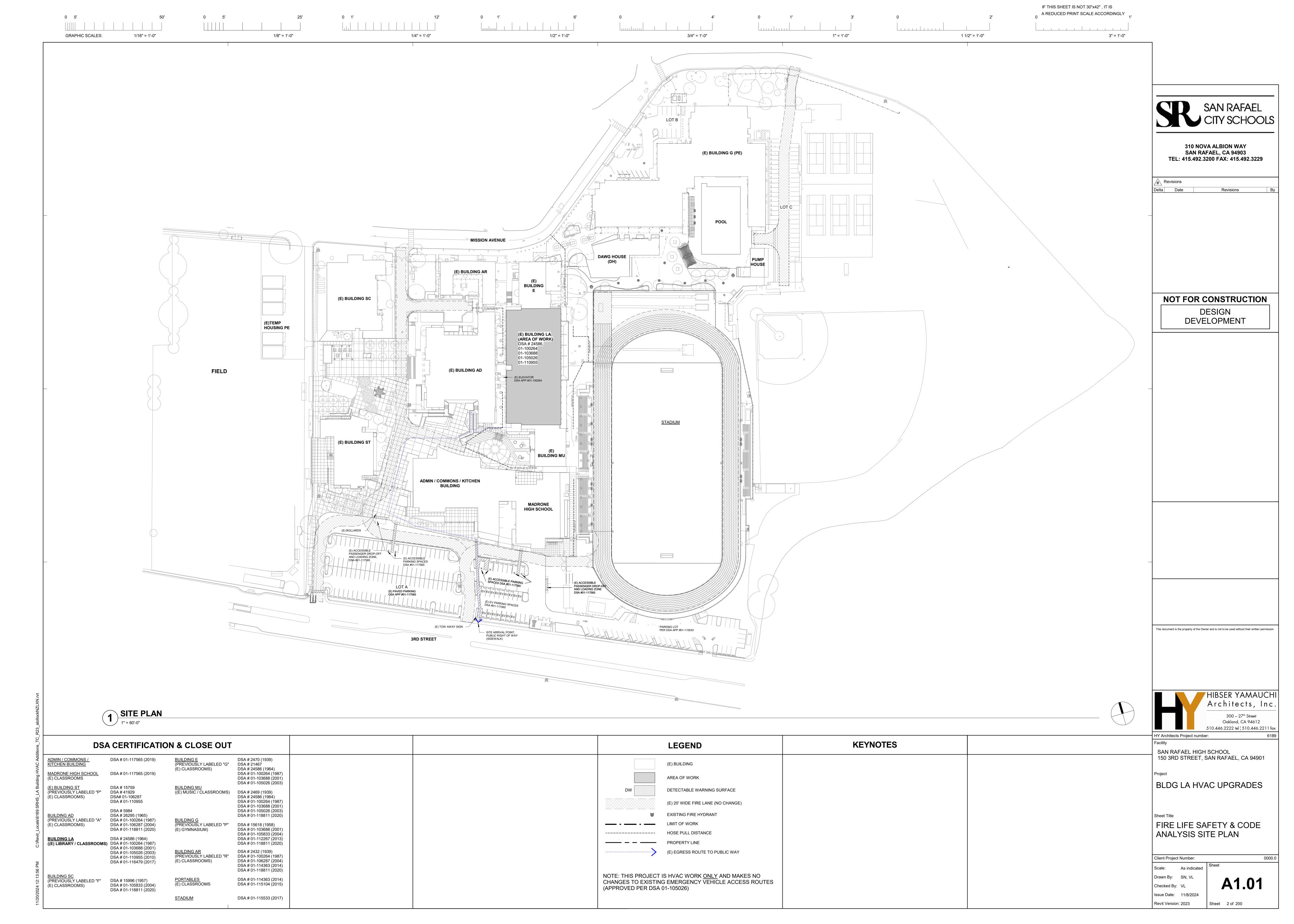
310 NOVA ALBION WAY SAN RAFAEL, CA 94903 TEL: 415.492.3200 FAX: 415.492.3229

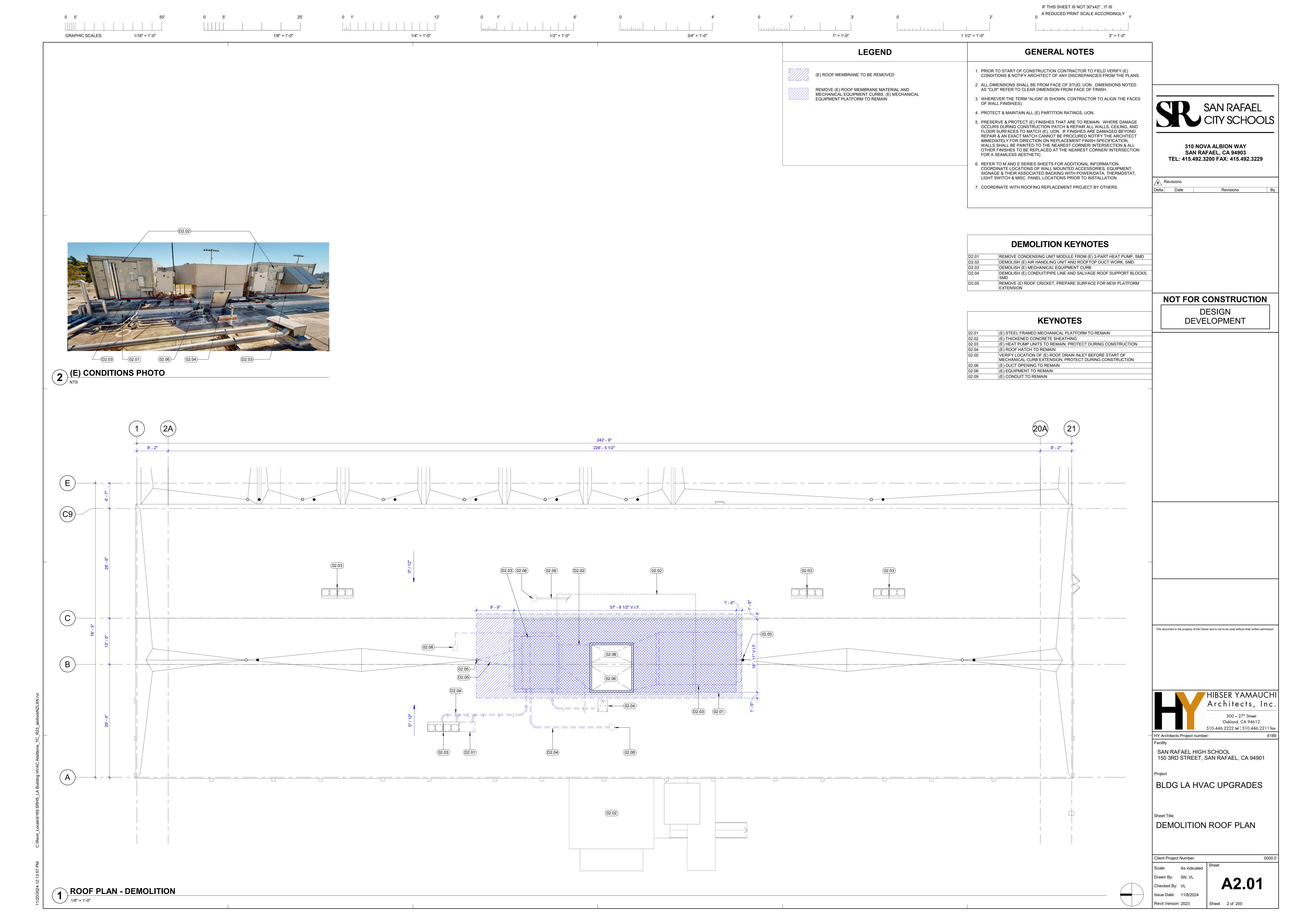
Issue Date: 11/8/2024

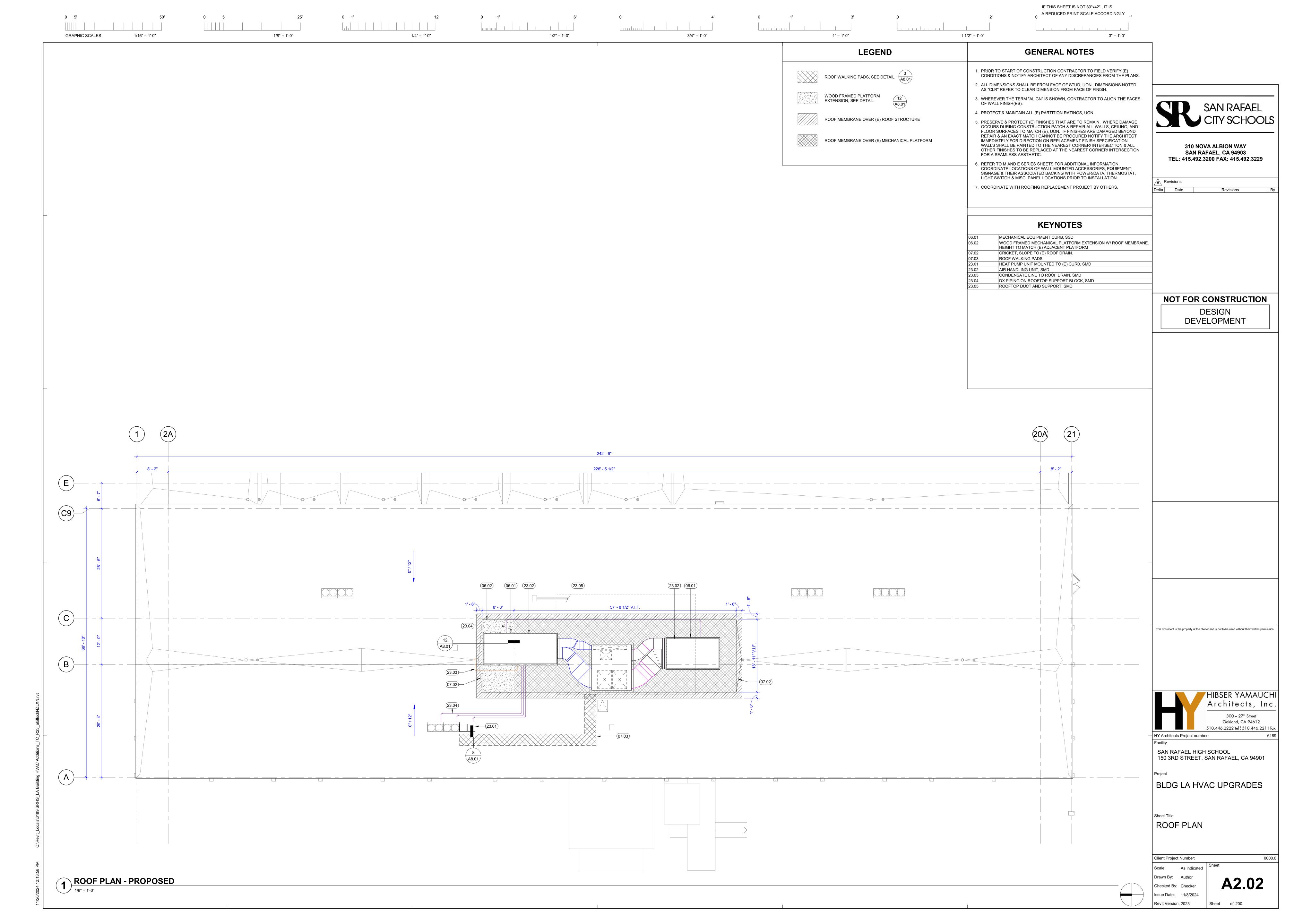
Revit Version: 2023

License Number Expiration Date

					TEL: 415.492.3200 FAX: 415.492.3229
GENERAL NOTES	ABBREVIATIONS	APPLICABLE CODES	OWNER	INDEX OF DRAWINGS	/#\ Revisions
ALL WORK SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF GOVERNING CODES LISTED IN	& AND LAB LABORATORY  @ AT LAM LAMINATE	ALL WORK PERFORMED UNDER THIS CONTRACT IS TO CONFORM TO THE FOLLOWING CODES	SAN RAFAEL CITY SCHOOLS	ARCHITECTURAL A0.01 TITLE SHEET	Delta Date Revisions By
"APPLICABLE CODES" AND ALL GOVERNING LOCAL CODES AND REGULATIONS.  2. THE OWNER / ARCHITECT HAVE OBTAINED APPROVAL OF THE PRIMARY AUTHORITY HAVING	© CENTERLINE LAV LAVATORY Ø DIAMETER LBS POUNDS # POUND OR NUMBER LT LIGHT	AND REGULATIONS:  2022 CALIFORNIA BUILDING ADMINISTRATIVE CODE, PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)	310 NOVA ALBION WAY TEL. (415) 492-3285 SAN RAFAEL, CA 94903 FAX. (415) 492-3229 SENIOR DIRECTOR OF STRATEGIC	A1.01 FIRE LIFE SAFETY & CODE ANALYSIS SITE PLAN A2.01 DEMOLITION ROOF PLAN	
JURISDICTION (DSA, HCAI, CITY BUILDING PERMIT). CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL OTHER REQUIRED PERMITS PRIOR TO COMMENCEMENT OF CONSTRUCTION.	A/C AIR CONDITIONING MAX MAXIMUM AC ASPHALTIC CONCRETE MB MACHINE BOLT	2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, CCR BASED ON THE	FACILITY PLANNING: TIMOTHY RYAN	A2.02 ROOF PLAN A6.01 REFLECTED CEILING PLAN - FIRST LEVEL	
3. UNLESS STATED OTHERWISE IN THE SPECIFICATIONS, SPECIAL INSPECTION IS REQUIRED FOR SHOP AND FIELD STRUCTURAL WELDING.	ACOUS ACOUSTICAL MDF MEDIUM DENSITY FIREBOARD ACT ACOUSTIC CEILING TILE MECH MECHANICAL	2021 INTERNATIONAL BUILDING CODE (IBC) WITH 2021 CALIFORNIA AMENDMENTS)  2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24, CCR BASED ON THE	CONSTRUCTION MANAGER	A6.02 REFLECTED CEILING PLANS - SECOND LEVEL A6.03 REFLECTED CEILING PLANS - THIRD LEVEL A8.01 EXTERIOR DETAILS	
4. WHERE INCORPORATED IN THE CONSTRUCTION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COPIES OF HCAI OR DSA PRE-APPROVALS FOR PRE-APPROVED ITEMS OR SYSTEMS INCORPORATED INTO THE CONSTRUCTION AND DISTRIBUTE TO OWNER'S REPRESENTATIVE,	ADJ ADJACENT MH MANHOLE AFF ABOVE FINISHED FLOOR MIN MINIMUM	2020 NATIONAL ELECTRICAL CODE (NEC) WITH 2020 CALIFORNIA AMENDMENTS)	GREYSTONE WEST COMPANY TEL. (707) 933-0624 621 WEST SPAIN STREET FAX. (707) 996-8390 SONOMA, CA 95476	A9.01 SUSPENDED ACT CEILING DETAILS	
ARCHITECT AND INSPECTOR.  5. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO FURNISH AND AND INSTALL ALL	ALT ALTERNATE MISC MISCELLANEOUS ALUM ALUMINIUM MOD MODULAR ANOD ANODIZED MTD MOUNTED	2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, CCR BASED ON THE 2021 UNIFORM MECHANICAL CODE (UMC) WITH 2021 CALIFORNIA AMENDMENTS)		STRUCTURAL S0.1 GENERAL NOTES AND SPECIFICATIONS S2.1 ROOF FRAMING PLAN	
MATERIALS AND WORK DESCRIBED, DEPICTED OR DETAILED WITHIN THESE DOCUMENTS REGARDLESS OF THE LOCATION OF THAT MATERIAL OR WORK WITHIN THE DOCUMENTS OR	APPROX APPROXIMATE MTG MOUNTING ARCH ARCHITECTURAL MTL METAL MUL MULLION	2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, CCR BASED ON THE 2021 UNIFORM PLUMBING CODE (UPC) WITH 2021 CALIFORNIA AMENDMENTS)	CONSULTANTS	MECHANICAL	
OMISSION (WHETHER DELIBERATE OR ACCIDENTAL) OF THAT MATERIAL OR WORK BY A SUBCONTRACTOR ON HIS/HER BID.	BITUM BITUMINOUS  BD BOARD (N) NEW  BLDG BUILDING N/A NOT APPLICABLE	2022 CALIFORNIA ENERGY EFFICIENCY STANDARDS (ENERGY CODE), PART 6, TITLE 24 CCR 2022 SAFETY CODE FOR ELEVATORS AND ESCALATORS	ARCHITECT	M0.01 MECHANICAL LEGEND AND NOTES M0.02 MECHANICAL SCHEDULES	
6. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL CONSIDER THESE DOCUMENTS IN THEIR ENTIRETY. DISCREPANCIES OR CONTRADICTIONS BETWEEN PORTIONS OF THESE DOCUMENTS MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AT LEAST 72 HOURS PRIOR	BLKG BLOCKING N NORTH BOT BOTTOM NIC NOT IN CONTRACT	(ASME A17.1-2019)	HIBSER YAMAUCHI ARCHITECTS TEL. (510) 446-2222 300 27TH STREET, 2ND FLOOR FAX (510) 446-2211	M2.01 MECHANICAL FLOOR PLAN - FIRST LEVEL M2.02 MECHANICAL FLOOR PLAN - SECOND LEVEL M2.03 MECHANICAL FLOOR PLAN - THIRD LEVEL	NOT FOR CONSTRUCTION
TO BID OPENING FOR CLARIFICATION. OTHERWISE, THE MOST RESTRICTIVE REQUIREMENT SHALL BE IN FORCE AT NO ADDITIONAL COST TO THE OWNER.	BUR BUILT-UP ROOFING NOM NOMINAL NTS NOT TO SCALE	2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, CCR BASED ON THE 2021 INTERNATIONAL FIRE CODE (IFC) WITH 2022 CALIFORNIA AMENDMENTS)  2022 CALIFORNIA EXISTING BUILDING CODE, BART 10, TITLE 24, CCR	OAKLAND, CA 94612 CONTACT: LEE POLLARD	M2.04 MECHANICAL ROOF PLAN M2.04D MECHANICAL DEMOLITION ROOF PLAN	DESIGN
7. THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR THE SAFETY OF ALL PERSONS ON OR ABOUT THE CONSTRUCTION SITE, IN ACCORDANCE WITH APPLICABLE LAWS AND CODES. CONTRACTOR ESTABLISH PROCEDURES TO ASSURE ALL PERSONS ENTERING A POSSIBLY	CAB CABINET CB CATCH BASIN O/ OVER CFCI CONTRACTOR FURNISHED OC ON CENTER CONTRACTOR INSTALLED OFCI OWNER FURNISHED CONTRACTOR	2022 CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24 CCR (2021 IEB CODE AND 2022 CALIFORNIA AMENDMENTS)	STRUCTURAL  ZFA STRUCTURAL ENGINEERS TEL. (415) 243-4091	M5.01 MECHANICAL DETAILS M5.02 MECHANICAL DETAILS	DEVELOPMENT
HAZARDOUS AREA, INCLUDING WORKERS, SUBCONTRACTORS, OTHER CONTRACTORS, VISTORS, AND OTHERS ARE AWARE OF APPROPRIATE / REQUIRED SAFETY PROCEDURES. COMPLY WITH LOCAL, STATE, AND FEDERAL SAFETY STANDARDS, INCLUDING OSHA REQUIREMENTS AND WITH THE SAFETY	CG CORNER GUARD INSTALLED CJ CONTROL JOINT OFOI OWNER FURNISHED OWNER INSTALLE	2022 CALIFORNIA GREEN BUILDING CODE (CALGreen), PART 11, TITLE 24, CCR  2022 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 CCR	ADDRESS CITY, ST ZIP	M6.01 MECHANICAL CONTROL DIAGRAMS  ELECTRICAL	
PROVISIONS OF THE LATEST MANUAL OF ACCIDENT PREVENTION PUBLISHED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA.	CLG CEILING OPP OPPOSITE CLO CLOSET CLR CLEAR PL PLATE	TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS	CONTACT: ANGIE SOMMER  MECHANICAL / PLUMBING	E0.01 ELECTRICAL SYMBOLS, NOTES, AND SCHEDULES E0.02 ELECTRICAL ONE-LINE DIAGRAM	
8. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING TEMPORARY FENCING AND GATES, SIGNAGE, SECURITY LIGHTING OR OTHER SECURITY AND CONTROL MEASURES NECESSARY	CMU CONCRETE MASONRY UNIT PLAM PLASTIC LAMINATE CO CLEAN OUT PLAS PLASTER COL COLUMN PLYWOOD	2010 ADA STANDARDS FOR ACCESSIBLE DESIGN  NFPA 13 INSTALLATION OF SPRINKLER SYSTEMS 2022 EDITION	CAPITAL ENGINEERING TEL. (916) 851-3519 ADDRESS CITY, ST ZIP	E1.01 ELECTRICAL POWER SITE PLAN E2.01 ELECTRICAL POWER PLAN	
TO PROVIDE FOR THE SAFETY OF THE PUBLIC AND FACILITY USERS UNTIL THE COMPLETION OF THE WORK.	COMP COMPOSITION PR PAIR CONC CONCRETE PTD PAPER TOWEL DISPENSER	NFPA 14 INSTALLATION OF STANDPIPE SYSTEMS 2019 EDITION NFPA 17 STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEM 2021 EDITION	CONTACT: RYAN CELAYA		
9. THE CONTRACTOR IS RESPONSIBLE TO FOR PROTECTION OF ADJACENT PROPERTY AND SHALL — REPAIR AND / OR REPLACE ALL PROPERTY DAMAGED DURING THE COURSE ON THE WORK.	CONT CONTINUOUS CORR CORRIDOR (R) RELOCATE	NFPA 20 INSTALLATION OF STATIONARY PUMPS 2019 EDITION NFPA 24 INSTALLATION OF PRIVATE FIRE MAINS 2019 EDITION	ELECTRICAL / COMMUNICATIONS  WKM ELECTRICAL CONSULTANTS INC. TEL. (925) 385-0649		
10. THE CONTRACTOR SHALL LIMIT HIS / HER ACTIVITY TO THE AREA DESCRIBED WITHIN THE DOCUMENTS UNLESS OTHERWISE PERMITTED BY THE OWNER'S REPRESENTATIVE.	CT CERAMIC TILE RB RESILIENT OR RUBBER BASE CUST CUSTODIAN RCP REFLECTED CEILING PLAN RD ROOF DRAIN	NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE 2022 EDITION NFPA 80 FIRE DOORS AND OTHER OPENING PROTECTIVES 2019 EDITION NFPA 92 STANDARD FOR SMOKE CONTROL SYSTEMS 2018 EDITION	3397 MT. DIABLO BLVD., SUITE C LAFAYETTE, CA 94549 CONTACT: TIFFANY KANE		
11. THE CONTRACTOR IS RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF ANY ITEMS DAMAGED OR DISTURBED DURING THE COURSE OF THE WORK. INSTALLATION SHALL MATCH EXISTING IN KIND,	DBL DOUBLE REF REFERENCE DEMO DEMOLITION REFR REFRIGERATOR DEPT DEPARTMENT REINF REINFORCED	NFPA 110 STANDARD FOR EMERGENCY AND STANDBY POWER SYS. 2019 EDITION NFPA 170 STANDARD FOR FIRE SAFETY AND EMERGENCY SYMBOLS 2018 EDITION NFPA 253 CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEM 2019 EDITION			
QUALITY, AND PERFORMANCE.  12. WHERE EXISTING CONSTRUCTION AND FINISHES ARE CUT, DAMAGED, OR REMODELED, PATCH WITH	DF DRINKING FOUNTAIN REQ REQUIRED DI DRAIN OR DROP INLET RF RESILIENT FLOORING DIA DIAMETER RM ROOM	NFPA 2001 CLEAN AGENT FIRE EXTINGUISHING SYSTEM 2018 EDITION ICC 300 STANDARD ON BLEACHER, FOLDING AND TELESCOPIC SEATING 2017 EDITION UL 38 STANDARD FOR SAFETY MANUAL SIGNALING BOXES FOR FA 1999 EDITION			
MATERIALS TO MATCH IN KIND, QUALITY, PERFORMANCE CHARACTERISTICS, AND APPEARANCE.  13. ALL DIMENSIONS ARE TO FACE OF STUD, UNLESS OTHERWISE NOTED. DIMENSIONS NOTED AS "CLR"	DIAG DIAGONAL RO ROUGH OPENING DIM DIMENSION RWL RAIN WATER LEADER DISP DISPENSER	UL 268 SMOKE DETECTORS FOR FIRE ALARM SYSTEMS 2016 EDITION UL 300 FIRE SUPPRESSION STANDARDS 2005 (R2010) EDITION UL 305 STANDARD FOR SAEFTY PANIC HARDWARE 2012 EDITION			
MEAN CLEAR DIMENSION TO FACE OF FINISH. VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND.	DIV DIVISION S SOUTH DN DOWN SC SOLID CORE	REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS - 2022 CBC CHAPTER 35 AND 2022			
14. VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND. VERIFY DIMENSIONS OF ALL OWNER-FURNISHED ITEMS, INCLUDING FURNITURE AND EQUIPMENT, TO ENSURE PROPER COORDINATION WITH CONSTRUCTION.	DTL DETAIL SCHED SCHEDULE DW DISHWASHER SD SOAP DISPENSER	CFC CHAPTER 80  THE ABOVE CODES AND REGULATIONS REFER TO THE LATEST EDITION OR REVISION IN FORCE			
15. ALL ITEMS IN THESE DRAWINGS ARE NEW UNLESS OTHERWISE NOTED.	DWG DRAWING SED SEE ELECTRICAL DRAWINGS SF SQUARE FEET  (E) EXISTING SFPD SEE FIRE PROTECTION DRAWINGS	ON THE DATE OF THE CONTRACT, UNLESS OTHERWISE STATED. NOTHING ON THE DRAWINGS IS TO BE CONSTRUED AS REQUIRING OR PERMITTING WORK THAT IS CONTRARY TO THE LISTED CODES AND REGULATIONS, OR OTHER LOCAL, STATE OR FEDERAL CODES OR REGULATIONS			
16. ALL UTILITIES REQUIRED FOR THE CONTINUOUS OPERATION OF ALL OCCUPIED EXISTING FACILITIES SHALL BE MAINTAINED IN SERVICE AT ALL TIMES. ANY SHUT DOWNS FOR NEW CONNECTIONS MUST	ÈEASTSHTSHEETEAEACHSIMSIMILAREFEXHAUST FANSLDSEE LANDSCAPE DRAWINGS	WHICH MAY BE APPLICABLE.  COMPLIANCE WITH CFC CHAPTER 33, FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION,			
BE COORDINATED WITH THE OWNER'S REPRESENTATIVE TWO WEEKS PRIOR TO THE REQUESTED SHUT DOWN.	EJ EXPANSION JOINT SMD SEE MECHANICAL DRAWINGS EL ELEVATION SMS SHEET METAL SCREW ELEC ELECTRICAL SND SANITARY NAPKIN DISPENSER	AND CBC CHAPTER 33, SAFETY DURING CONSTRUCTION WILL BE ENFORCED.		DEFERRED APPROVALS	
17. COORDINATION WITH OTHER CONTRACTS: IF ANY PART OF THIS CONTRACTOR'S WORK DEPENDS UPON THE WORK OF A SEPARATE CONTRACTOR, THIS CONTRACTOR SHALL INSPECT SUCH OTHER WORK AND PROMPTLY REPORT IN WRITING TO THE OWNER'S REPRESENTATIVE ANY DEFECTS IN	ELEV ELEVATOR SPD SEE PLUMBING DRAWINGS ENCL ENCLOSURE SPEC SPECIFICATION EQ EQUAL SQ SQUARE	ADMINISTRATIVE NOTES		1. NONE	
SUCH OTHER WORK THAT RENDER IT UNSUITABLE TO RECEIVE THE WORK OF THIS CONTRACTOR. FAILURE OF THIS CONTRACTOR TO SO INSPECT AND REPORT SHALL CONSTITUTE AN ACCEPTANCE OF THE OTHER CONTRACTOR'S WORK, EXCEPT AS TO DEFECTS WHICH MAY DEVELOP IN OTHER	EQUIP EQUIPMENT SS STAINLESS STEEL EVA EMERGENCY VEHICLE ACCESS SSD SEE STRUCTURAL DRAWINGS	THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE SCOPE OF THE  OF THE SCOPE OF THE SCOP		1. NONE	
CONTRACTOR'S WORK AFTER EXECUTION OF THIS CONTRACTOR'S WORK.  18. COORDINATION OF SCHEDULE: PORTIONS OF THIS WORK MAY BE REQUIRED TO BE COMPLETED ON	EXP EXPANSION STL STEEL EXT EXTERIOR STORAGE	<b>PROJECT</b> IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS SUCH THAT THE FINISHED WORK WILL NOT COMPLY WITH THE SAID TITLE 24, CALIFORNIA CODE OF REGULATIONS,			
SCHEDULE IN ORDER TO AVOID DELAY TO OTHER CONTRACTORS OR OWNERS OPERATIONS.  CONTRACTOR SHALL STRICTLY ADHER TO ESTABLISHED COMPLETION DATES AS DESIGNATED IN THE SPECIFICATIONS AND COORDINATE WORK SCHEDULE WITH THE OWNER'S REPRESENTATIVE AND	STRUCT STRUCTURAL FA FIRE ALARM SUSP SUSPEND FD FLOOR DRAIN	CONSTRUCTION CHANGE DOCUMENTS DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.			
OTHER CONTRACTORS. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND LIQUIDATED DAMAGES.	FE FIRE EXTINGUISHER TEL TELEPHONE FEC FIRE EXTINGUISHER CABINET TEMP TEMPORARY	<ol> <li>A COPY OF PARTS 1 THROUGH 5, TITLE 24 C.C.R. SHALL BE KEPT ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION.</li> </ol>	SYMBOLS	SCOPE OF WORK	
	FF FINISH FLOOR THK THICK				
19. SCHEDULE ALL WORK WITH THE OWNER'S REPRESENTATIVE, INCLUDING CONSTRUCTION ACCESS AND STORAGE, AND WORK OUTSIDE THE "EXTENT OF WORK" SET FORTH IN THESE DOCUMENTS. THE	FIN FINISH T.O. TOP OF FLR FLOOR TOC TOP OF CURB FO FACE OF TOP TOP OF PARAPET	3. ALL CONSTRUCTION CHANGE DOCUMENT AND ADDENDA TO BE SIGNED BY THE ARCHITECT AND THE OWNER AND APPROVED BY DSA. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT	(A)	BUILDING LA	
AND STORAGE, AND WORK OUTSIDE THE "EXTENT OF WORK" SET FORTH IN THESE DOCUMENTS. THE CONSTRUCTION SCHEDULE SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO THE START OF CONSTRUCTION.	FIN FINISH T.O. TOP OF FLR FLOOR TOC TOP OF CURB	THE OWNER AND APPROVED BY DSA. CHANGES TO THE APPROVED DRAWINGS AND	1 GRID LINE	UPGRADE TWO ROOFTOP AIR HANDLING AND SUPPORTING DUCKWORK IN EXISTING ROOF PENETRATIONS.	
AND STORAGE, AND WORK OUTSIDE THE "EXTENT OF WORK" SET FORTH IN THESE DOCUMENTS. THE CONSTRUCTION SCHEDULE SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO THE START OF CONSTRUCTION.  20. CONSTRUCTION PROCEDURES SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO THE START OF CONSTRUCTION.	FIN FINISH T.O. TOP OF FLR FLOOR TOC TOP OF CURB FO FACE OF TOP TOP OF PARAPET FOC FACE OF CONCRETE TOS TOP OF SLAB FOF FACE OF FINISH TOW TOP OF WALL FOS FACE OF STUD TPD TOILET PAPER DISPENSER FRP FIBERGLASS REINFORCED PANEL TV TELEVISION FT FOOT OR FEET TYP TYPICAL	THE OWNER AND APPROVED BY DSA. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.  4. ALL TESTS TO CONFROM TO THE REQUIREMENTS OF SECTION 4-335, PART 1, TITLE 24.	GRID LINE  BUILDING ELEVATION	<ol> <li>UPGRADE TWO ROOFTOP AIR HANDLING AND SUPPORTING DUCKWORK IN EXISTING ROOF PENETRATIONS.</li> <li>REPLACE ONE HEAT PUMP UNIT IN KIND AND REFRIGERANT CONNECTIONS.</li> <li>REMOVE ALL CLASSROOM HEAT COILS AND PIPING CONNETIONS, REPLACE WITH NEW DUCTWORK.</li> </ol>	
AND STORAGE, AND WORK OUTSIDE THE "EXTENT OF WORK" SET FORTH IN THESE DOCUMENTS. THE CONSTRUCTION SCHEDULE SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO THE START OF CONSTRUCTION.  20. CONSTRUCTION PROCEDURES SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO THE START OF CONSTRUCTION.  21. DEMOLITION IS NOT NECESSARILY LIMITED TO ONLY WHAT IS SHOWN ON THIS OR OTHER DRAWINGS OR AS OUTLINED IN THE SPECIFICATIONS. THE INTENT IS TO INDICATE GENERAL SCOPE OF DEMOLITION REQUIRED. CONTRACTOR SHALL INCLUDE ALL MISCELLANEOUS DEMOLITON, CUTTING	FIN FINISH FLR FLOOR FO FACE OF FO FACE OF FOC FACE OF FOR TOP FOC FACE OF CONCRETE FOF FACE OF FINISH FOS FACE OF STUD FOS FACE OF STUD FRP FIBERGLASS REINFORCED PANEL FT FOOT OR FEET FTG FOOTING  TOP OF TOP OF CURB TOP OF PARAPET TOP OF SLAB TOP OF SLAB TOP OF WALL TOP OF WALL TOP OF SLAB TO	THE OWNER AND APPROVED BY DSA. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.	BUILDING ELEVATION	<ol> <li>UPGRADE TWO ROOFTOP AIR HANDLING AND SUPPORTING DUCKWORK IN EXISTING ROOF PENETRATIONS.</li> <li>REPLACE ONE HEAT PUMP UNIT IN KIND AND REFRIGERANT CONNECTIONS.</li> <li>REMOVE ALL CLASSROOM HEAT COILS AND PIPING CONNETIONS, REPLACE WITH NEW DUCTWORK.</li> <li>CONSTRUCT ROOFTOP MECHANICAL PLATFROM EXTENSION WITH STRUCTURAL SUPPORTS AND REPLACE HOUSEKEEPING PADS.</li> <li>UPGRADE THERMOSTAT CONTROLS.</li> </ol>	This document is the property of the Owner and is not to be used without their written permission
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SUPERVISION OF CONSTRUCTION BY DSA SHALL BE IN ACCORDANCE WITH SECTION 4-334, PART 1, TITLE 24.  9. CONTRACTOR, INSPECTOR, ARCHITECT, AND ENGINEERS SHALL SUBMIT VERIFIED REPORTS (FORM DSA-6 IN ACCORDANCE WITH SECTION 4-336 AND 4-343, PART 1, TITLE 24.  10. THE ARCHITECT AND THE STRUCTURAL ENGINEER SHALL PERFORM THEIR DUTIES IN ACCORDANCE WITH SECTION 4-333, AND 4-341, PART 1, TITLE 24.  11. THE CONTRACTOR SHALL PERFORM HIS DUTIES IN ACCORDANCE WITH SECTION 4-343, PART 1, TITLE 24.  12. THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLYINSTALLED 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 SUBMITTED ON OR AFTER OCTOBER 1,2021.  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Drawing sheets denoted in the sheet index as follows:   Drawing sheets included in the following PC approval(s):   have been prepared by other design professionals or consultants who are licensed and authorized to prepare such drawings (plans) in this state. Then have been examined by me for:  1. Design intent and appear to meet the appropriate requirements of Tille 24. California Code of Regulations and the project specifications prepared by me, and 2. Coordination with my drawings (plans) in this State. Then have been examined by me for:	HIBSER YAMAUCHI Architects, Inc.  300 - 27th Street Oakland, CA 94612 510.446.2222 tell; 510.446.2211 fax HY Architects Project number: 6189 Facility SAN RAFAEL HIGH SCHOOL 150 3RD STREET, SAN RAFAEL, CA 94901 Project BLDG LA HVAC UPGRADES Sheet Title
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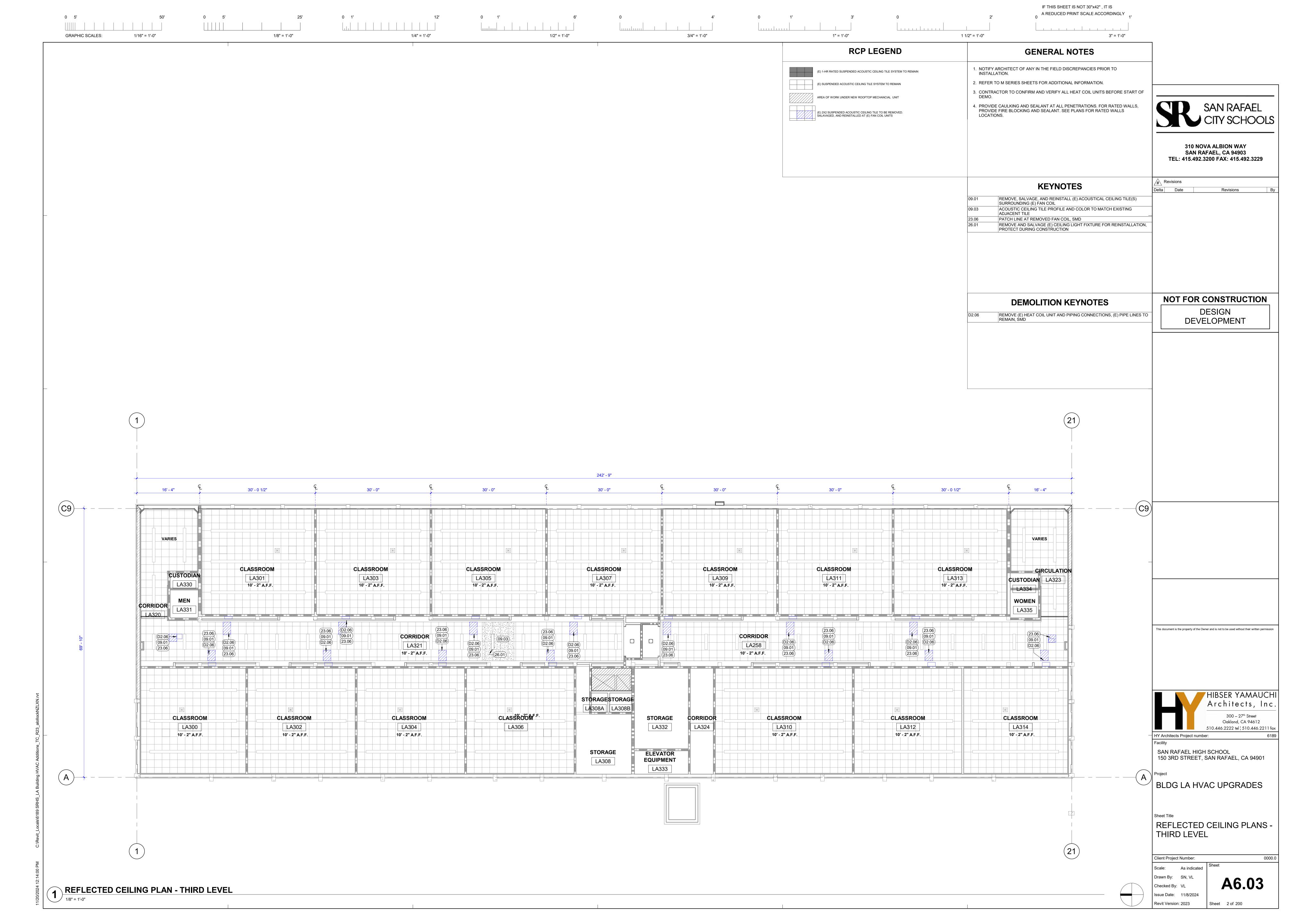


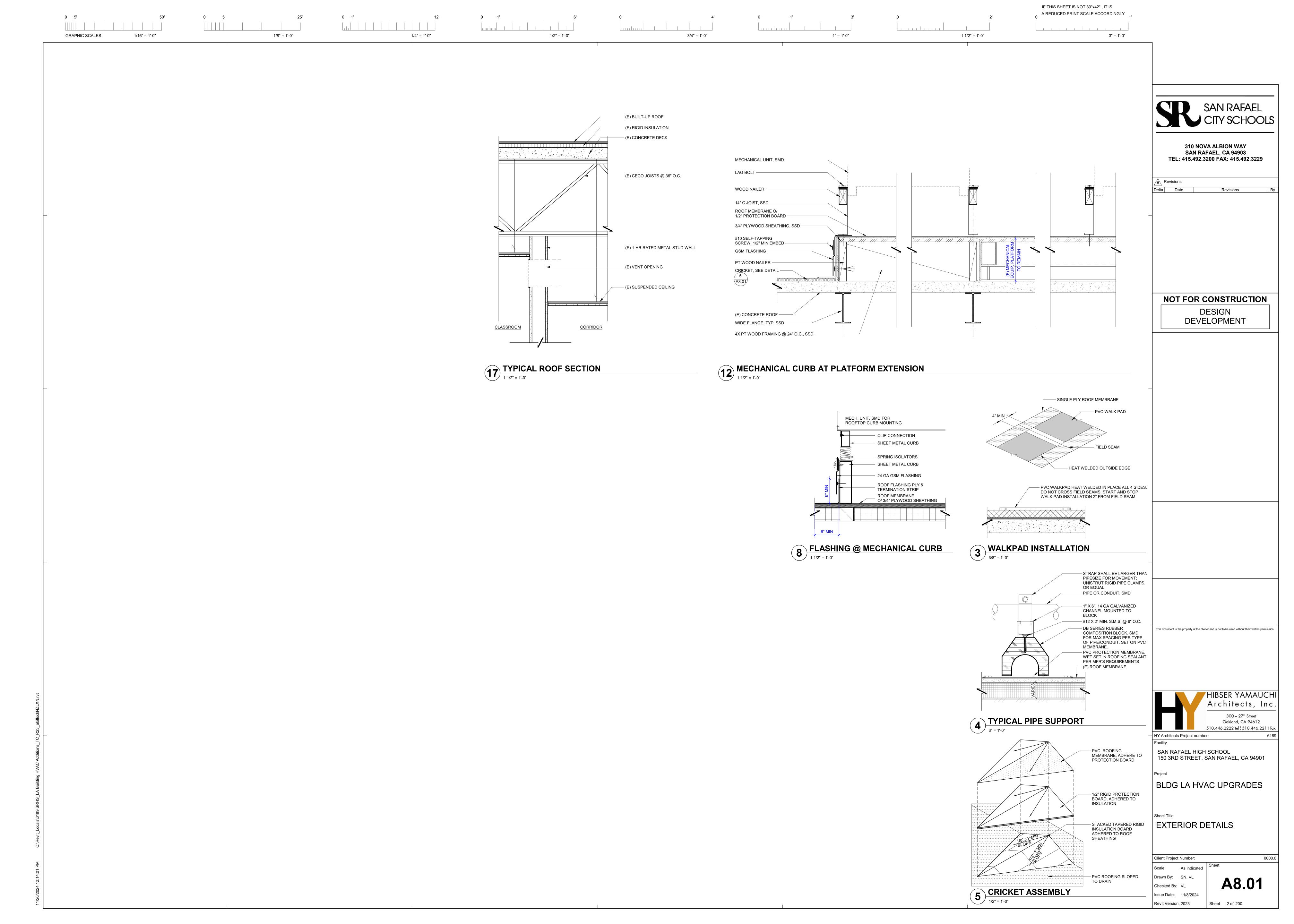


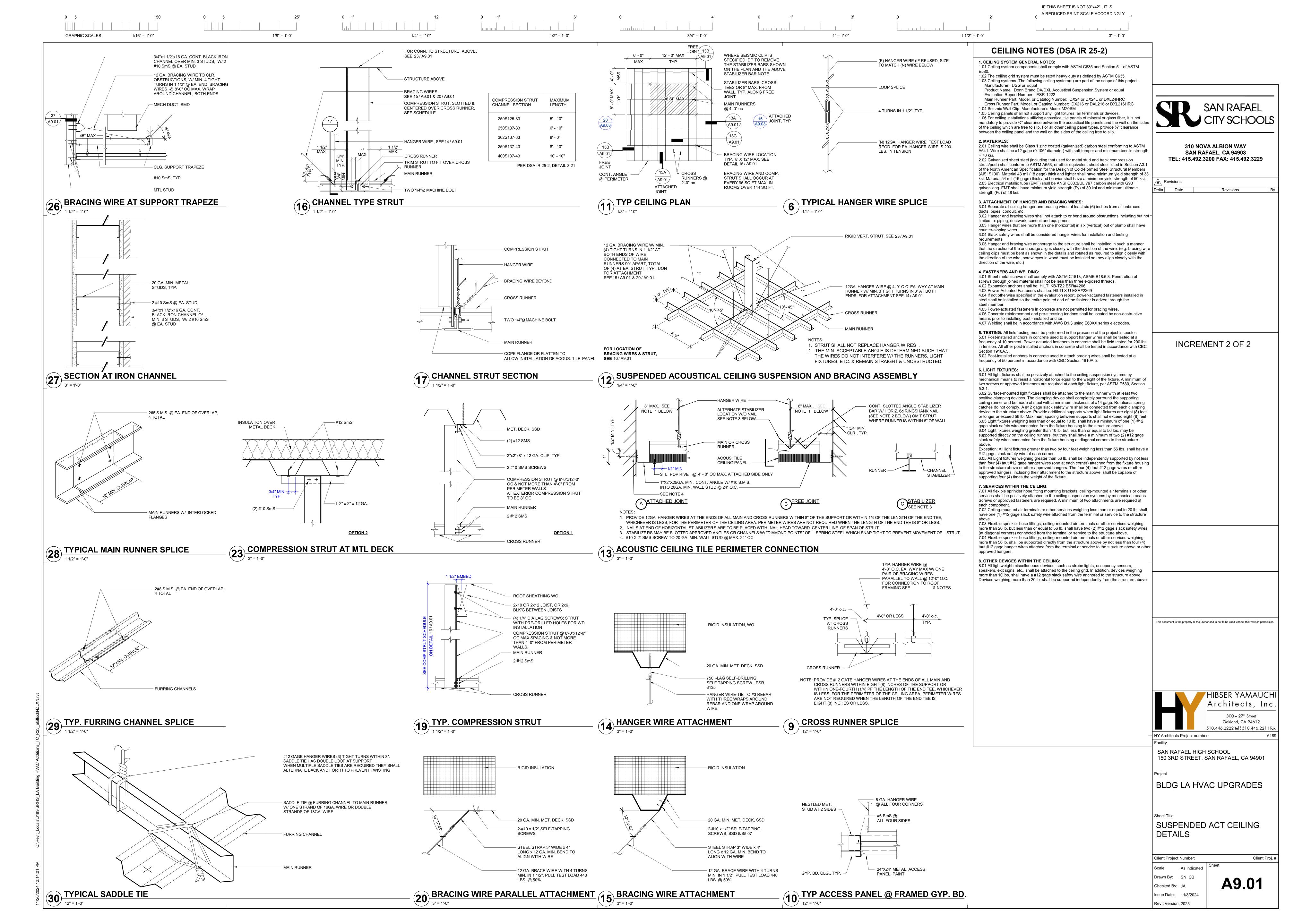


IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT SCALE ACCORDINGLY 0 5' GRAPHIC SCALES: 1/16" = 1'-0" 1/8" = 1'-0" 1/4" = 1'-0" 1 1/2" = 1'-0" 3" = 1'-0" **RCP LEGEND GENERAL NOTES** 1. NOTIFY ARCHITECT OF ANY IN THE FIELD DISCREPANCIES PRIOR TO (E) 1-HR RATED SUSPENDED ACOUSTIC CEILING TILE SYSTEM TO REMAIN INSTALLATION. 2. REFER TO M SERIES SHEETS FOR ADDITIONAL INFORMATION. (E) SUSPENDED ACOUSTIC CEILING TILE SYSTEM TO REMAIN 3. CONTRACTOR TO CONFIRM AND VERIFY ALL HEAT COIL UNITS BEFORE START OF AREA OF WORK UNDER NEW ROOFTOP MECHANCIAL UNIT 4. PROVIDE CAULKING AND SEALANT AT ALL PENETRATIONS. FOR RATED WALLS, PROVIDE FIRE BLOCKING AND SEALANT. SEE PLANS FOR RATED WALLS (E) 2X2 SUSPENDED ACOUSTIC CEILING TILE TO BE REMOVED. SALAVAGED, AND REINSTALLED AT (E) FAN COIL UNITS LOCATIONS. 310 NOVA ALBION WAY SAN RAFAEL, CA 94903 TEL: 415.492.3200 FAX: 415.492.3229 /#\ Revisions **KEYNOTES** Delta Date Revisions PATCH LINE AT REMOVED FAN COIL, SMD NOT FOR CONSTRUCTION **DEMOLITION KEYNOTES** DESIGN REMOVE (E) HEAT COIL UNIT AND PIPING CONNECTIONS, (E) PIPE LINES TO REMAIN, SMD DEVELOPMENT 242' - 9" 226' - 5 1/2" 8' - 2" 8' - 2" This document is the property of the Owner and is not to be used without their written permission HIBSER YAMAUCHI Architects, Inc. CLASSROOM 510.446.2222 tel¦510.446.2211 fax CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM LA103 HY Architects Project number: LA105 LA106 LA100 LA102 LA104 LA101 SAN RAFAEL HIGH SCHOOL 150 3RD STREET, SAN RAFAEL, CA 94901 BLDG LA HVAC UPGRADES STORAGE LA107 LA108 OFFICE CRAWL SPACE LA109 REFLECTED CEILING PLAN -(D2.06) (23.06) FIRST LEVEL (C9) Client Project Number: A6.01 REFLECTED CEILING PLAN - FIRST LEVEL A.F.F. Issue Date: 11/8/2024

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ADHESIVE ANCHOR IN 2500 PSI MIN CONCRETE  ANCHOR MIN LINES OF LINE OF														
ADHESIVE		HOR	PILOT	MIN EMBED	MIN EDGE	MIN	MIN CONC							
TYPE	THRD ROD	REBAR	HOLE	UNO H <sub>ef</sub>	DISTANCE C <sub>min</sub>	SPCG S <sub>min</sub>	DEPTH H <sub>min</sub>							
	-	#3	½ <b>"ø</b>	3"	1¾"	3"	H <sub>ef</sub> + 11/4"							
	-	#4	%" <b>Ø</b>	4"	1¾"	3"	H <sub>ef</sub> + 11/4"							
	-	#5	¾ <b>"Ø</b>	5"	1¾"	3"	H <sub>ef</sub> + 1½"							
SIMPSON	¾" <b>ø</b>	-	⅓6 <b>"Ø</b>	3"	1¾"	3"	H <sub>ef</sub> + 11/4"							
SET-3G	½" <b>ø</b>	-	%₁6 <b>"Ø</b>	4"	1¾"	3"	H <sub>ef</sub> + 11/4"							
(ICC-ESR	%" <b>ø</b>	-	<sup>1</sup> / <sub>16</sub> <b>"Ø</b>	5"	1¾"	3"	H <sub>ef</sub> + 1%"							
4057)	¾ <b>"Ø</b>	#6	% <b>"∅</b>	6"	1¾"	3"	H <sub>ef</sub> + 1¾"							
	7∕8 <b>"Ø</b>	#7	1"Ø	7"	1¾"	3"	H <sub>ef</sub> + 2"							
	1"Ø	#8	11/8 <b>"Ø</b>	8"	1¾"	3"	H <sub>ef</sub> + 21/4"							
	1¼"ø	#10	1% <b>"ø</b>	10"	2¾"	6"	H <sub>ef</sub> + 2 <sup>3</sup> / <sub>4</sub> "							
	3∕8 <b>"Ø</b>	N/A	7∕16 <b>"Ø</b>	3"	1¾"	1%"								
	N/A	#3	½ <b>"ø</b>	3"	1¾"	1%"	11 1 41/"							
	½ <b>"ø</b>	N/A	%16 <b>"Ø</b>	4"	1¾"	2½"	H <sub>ef</sub> + 11/4"							
	N/A	#4	5∕8 <b>"Ø</b>	4"	1¾"	2½"								
HILTI HIT-HY	5% <b>"ø</b>	#5	³⁄4 <b>"Ø</b>	5"	1¾"	31/8"	H <sub>ef</sub> + 1½"							
200R V3 (ICC-ESR	¾ <b>"Ø</b>	#6	7∕8 <b>"Ø</b>	6"	1¾"	3¾"	H <sub>ef</sub> + 1¾"							
4868)	7∕8 <b>"ø</b>	#7	1"Ø	7"	1¾"	43/8"	H <sub>ef</sub> + 2"							
•	1"Ø	#8	11/8 <b>"Ø</b>	8"	1¾"	5"	H <sub>ef</sub> + 21/4"							
	N/A	#9	1¾ <b>"Ø</b>	9"	1¾"	5%"	11 . 03/"							
-	1¼"ø	N/A	1¾"Ø	10"	1¾"	61/4"	H <sub>ef</sub> + 2 <sup>3</sup> / <sub>4</sub> "							
	N/A	#10	1½"ø	10"	13/4"	61/4"	H <sub>ef</sub> + 3"							

**ANCHOR PER** PLAN & DETAILS -TOP OF CONC -

- 1. INSTALL ADHESIVE ANCHORS PER MANUFACTURER'S INFORMATION AND ICC
- 2. CONTRACTOR TO VERIFY MINIMUM EDGE DISTANCES, SPACING, AND THICKNESS ARE IN ACCORDANCE W/ SCHEDULE PRIOR TO INSTALLING ANCHOR.
- 3. HOLES TO BE DRILLED W/ ROTARY DRILL ONLY. WHEN DRILLING HOLES IN EXISTING CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN 1" CLEARANCE BETWEEN REINFORCEMENT AND THE DRILLED-IN ANCHOR. FILL ABANDONED HOLES W/ HIGH STRENGTH GROUT.

- EDGE OF CONC AS OCCURS

4. SPECIAL INSPECTION IS REQUIRED PER SECTION 1705A AND THE REQUIREMENTS OF THE ICC REPORTS. THE SPECIAL INSPECTOR SHALL PERFORM PERIODIC/CONTINUOUS INSPECTION IN ACCORDANCE WITH TABLE 1705A.3. THE SPECIAL INSPECTOR SHALL INSPECT ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE CLEANLINESS, EMBEDMENT DEPTH, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, DRILL BIT DIAMETER, HOLE DEPTH, EDGE DISTANCE(S), ANCHOR SPACING(S), CONCRETE THICKNESS, AND ADHESIVE INJECTION. TEST ANCHORS IN ACCORDANCE W/ CBC SECTION 1910A.5. SEE DRAWINGS FOR SPECIFIC TENSION TEST LOADS FOR ANCHORS.

DHESIVE ANCHOR IN CONCRET

CARBON	STEEL E	XPANSION	ANCHOR	S IN 2500	PSI MIN C	CONC
ANCHOR TYPE	ANCHOR & PILOT HOLE DIA	MIN NOMINAL EMBED H <sub>nom</sub>	MIN EDGE DISTANCE C <sub>min</sub>	MIN SPCG S <sub>min</sub>	MIN CONC THICKNESS H <sub>min</sub>	INSTALL & TEST TORQUE (FT-LB)
	3/8"	11/8"	6"	3"	31/4"	30
SIMPSON STRONG-BOLT	1/2"	23/4"	6"	6"	4"	60
2	5/8"	3¾"	6½"	5"	5½"	90
(ICC-ESR 3037)	3/4"	41/8"	41/4"	10"	6"	150
,	1"	5¼"	8"	8"	9"	230
	3/8"	11%"	8"	8"	3%"	20
HILTI KB1	1/2"	2 % "	4"	81/2"	4"	40
(IAPMO-ER 678)	5/8"	31/4"	5½"	8"	5"	60
	3/4"	4"	9½"	5"	5½"	110
STAINLES	SS STL E	XPANSION	ANCHOR	S IN 2500	PSI MIN C	CONC
SIMPSON	3/8"	1%"	6"	10"	31/4"	30
STRONG-BOLT	1/2"	2¾"	6½"	8"	4½"	65
2	5/8"	3¾"	4"	8"	5½"	80
(ICC-ESR 3037)	3/4"	41/8"	6"	6½"	6¾"	150
	3/8"	1%"	5"	8"	31/4"	30
HILTI KB-TZ2	1/2"	2½"	2¾"	5½"	4"	40
(ICC-ESR 4266)	5/8"	31/4"	4"	7"	5"	60
-	3/4"	4"	5"	11"	5½"	

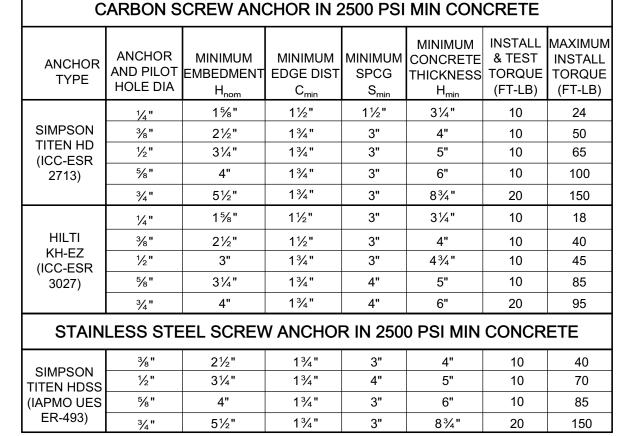
AT FIXTURES 1/16 "Ø OVS HOLE TYP - ANCHOR PER PLAN & DETAILS EXCEPT 1/8 "Ø OVS AT 3/4 "Ø AND 1 "Ø BASE P SIMPSON STRONG-BOLT 2 PILOT HOLE DEPTH PER MFR EDGE OF CONC

AS OCCURS

Cmin Smin

- . EXCEPT AT EXTERIOR EXPOSURE CONDITIONS, PROVIDE CARBON STEEL ANCHORS UNO. INSTALL EXPANSION ANCHORS PER MANUFACTURER'S INFORMATION AND ICC REPORT INSTRUCTIONS. SPECIAL INSPECTION IS REQUIRED PER SECTION 1705A AND THE REQUIREMENTS OF THE ICC REPORTS.
- 2. CONTRACTOR TO VERIFY MINIMUM EDGE DISTANCES, SPACING AND THICKNESS ARE IN ACCORDANCE W/ SCHEDULE PRIOR TO INSTALLING ANCHOR.
- 3. NO CORE DRILLING PERMITTED. USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN 1" CLEARANCE BETWEEN REINFORCEMENT AND THE DRILLED-IN ANCHOR. FILL ABANDONED HOLES W/ HIGH STRENGTH GROUT.
- 4. THE SPECIAL INSPECTOR SHALL PERFORM PERIODIC/CONTINUOUS INSPECTION IN ACCORDANCE WITH TABLE 1705A.3. THE SPECIAL INSPECTOR SHALL INSPECT ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE CLEANLINESS, EMBEDMENT DEPTH, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, DRILL BIT DIAMETER, HOLE DEPTH, EDGE DISTANCE(S), ANCHOR SPACING(S), CONCRETE THICKNESS. AND TIGHTENING TORQUE.
- 5. TEST ANCHORS IN ACCORDANCE W/ CBC SECTION 1910A.5.

EXPANSION ANCHOR IN CONCRETE



- 3/16 "Ø OVS HOLE AT STL THICKER ANCHOR PER PLAN THAN 12GA (1/8") MAX 1/16 "Ø OVS & DETAILS -HOLES OTHERWISE HOLE DEPTH TOP OF CONC -PER MFR EDGE OF CONC AS OCCURS —

- 1. EXCEPT AT EXTERIOR EXPOSURE CONDITIONS, PROVIDE CARBON STEEL ANCHORS UNO. INSTALL SCREW ANCHORS PER MANUFACTURER'S INFORMATION AND ICC REPORT INSTRUCTIONS. SPECIAL INSPECTION IS REQUIRED PER SECTION 1705A OF THE CBC AND THE REQUIREMENTS OF THE ICC REPORTS. INSTALLED ANCHORS SHALL BRING CONNECTED PLIES INTO FIRM CONTACT, MEETING THE INSTALL
- 2. CONTRACTOR TO VERIFY MINIMUM EDGE DISTANCES, SPACING AND THICKNESS ARE IN ACCORDANCE W/ SCHEDULE PRIOR TO INSTALLING ANCHOR.

TORQUE BUT NOT EXCEEDING THE MAXIMUM INSTALL TORQUE.

- 3. HOLES TO BE DRILLED W/ ROTARY DRILL ONLY. WHEN INSTALLING DRILLED-IN ANCHORS IN EXISTING REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN 1" CLEARANCE BETWEEN REINFORCEMENT AND THE DRILLED-IN ANCHOR. FILL ABANDONED HOLES W/ HIGH STRENGTH GROUT.
- 4. THE SPECIAL INSPECTOR SHALL PERFORM PERIODIC/CONTINUOUS INSPECTION IN ACCORDANCE WITH TABLE 1705A.3. THE SPECIAL INSPECTOR SHALL INSPECT ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE CLEANLINESS, EMBEDMENT DEPTH, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, DRILL BIT DIAMETER, HOLE DEPTH, EDGE DISTANCE(S), ANCHOR SPACING(S), CONCRETE THICKNESS, AND TIGHTENING TORQUE.
- 5. TEST ANCHORS IN ACCORDANCE W/ CBC SECTION 1910A.5.

**SCREW ANCHOR IN CONCRET** 

SHEET INDEX

S0.1 GENERAL NOTES AND SPECIFICATIONS S2.1 ROOF FRAMING PLAN

ABBREVIATIONS GAGE or GAUGE GALVANIZED GRADE BEAM POUNDS PER SQUARE INCH ADDITIONAL GL
ALTERNATE GLB
ALUMINUM GR
ARCHITECT HD
ALASKAN YELLOW CEDAR HDR
AT HDR
BRACED FRAME HGR PRESSURE TREATED DOUGLAS FIR GRADE HOLD DOWN HOT-DIP GALVANIZED REDUCED BEAM SECTION RAFTER HEADER HANGER HOOK HORIZONTAL REINFORCING BLOCK/BLOCKING BELOW REQUIRED RETAINING REVISION ROOF HIGH STRENGTH BOLT HORIZONTAL SLOTTED HOLLOW STRUCTURAL AMERICAN STANDARD BEAM SEE ARCHITECTURAL HEIGHT INSIDE DIAMETER SOLID BLOCK I SHAPED WOOD BUILT SEE CIVIL DRAWINGS CALIFORNIA CANTILEVER SEE ELECTRICAL DRAWING CARRIAGE BOLT COLD FORMED STEEL CAST IN PLACE
CERTIFIED GLUED LUMBER Lb or # SEISMIC FORCE RESISTING POUND(s) LIGHT GAGE METAL LIGHT GAGE METAL SEE LANDSCAPE DRAWINGS CEILING
CLEAR
COLUMN
CONCRETE
CONNECTION
CONTINUOUS
COORDINATE/
COORDINATION SHEET METAL SCREW SEE MECHANICAL DRAWINGS LONG LEG HORIZONTAL LONG LEG VERTICAL SLAB ON GROUND SEE PLUMBING DRAWINGS LIGHTWEIGHT CONCRETE SELECT STRUCTURAL ONCRETE MASONRY UNIT MAX COUNTERSINK CUT WASHER DEFORMED BAR ANCHOR DOUBLE MC
DEMAND CRITICAL WELD MECH MISCELLANEOUS CHANNEL STL SHEAR WALL SYMMETRICAL MANUFACTURER
MINIMUM
MISCELLANEOUS
MALLEABLE IRON WASHER TONGUE AND GROOVE METAL MECH UNIT NEW NOT APPLICABLE TOTAL LOAD
TOE NAIL
TOP OF CONCRETE
TOP OF FRAMING NON-SHRINK GROUT NOT TO SCALE TOP OF STEEL TOTAL TILT UP NOT TO SCALE
NORMAL-WEIGHT CONCRETE TOT OVER
ON CENTER
OUTSIDE DIAMETER
OPPOSITE HAND ELEVATOR/ELEVATION
EMBEDMENT
EQUAL
EQUIPMENT
EACH SIDE
EACH WAY
EXISTING
EXPANSION
EXTERIOR
FOUNDATION
FINISH
FINISH GRADE
FLOOR
FACE NAIL
FACE OF CONCRETE
FACE OF MASONRY TYPICAL UNLESS NOTED OTHERWISE VERTICAL VERIFY IN FIELD WITH
WITHOUT
WOOD
WELDED HEADED STUD OPEN WEB TRUSS
PLATE OF PROPERTY LINE
POST ABOVE
POWER ACTUATED WELDED WORK POINT/WATERPROOF PANEL EDGE NAIL
PERPENDICULAR
PANEL EDGE SCREWS
PARTIAL JOINT PENETRATION
POUNDS PER LINEAR FOOT WOOD SCREW

The Design Criteria

ROOF LIVE LOAD: RISK CATEGORY: <u>WIND DATA:</u>

2022 CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2 (CBC) 20 PSF (REDUCIBLE)

ULTIMATE WIND SPEED (3 SEC GUST) IN MPH: 98 WIND EXPOSURE: C INTERNAL WIND PRESSURE COEFFICIENT (GCPI) = ±0.18 COMPONENTS AND CLADDING DESIGN PRESSURES FOR SYSTEMS DESIGNED BY OTHERS SHALL COMPLY WITH THE "ASCE 7-16"

DESIGN STANDARD EARTHQUAKE DATA: SEISMIC IMPORTANCE FACTOR, I<sub>e</sub>: 1.0 MAPPED SPECTRAL RESPONSE ACCELERATIONS: S<sub>S</sub> = 1.50; S<sub>1</sub> = 0.60 SITE CLASS: D (BY DEFAULT) SPECTRAL RESPONSE COEFFICIENTS:  $S_{DS} = 1.20$ ;  $S_{D1} = 0.68$ SEISMIC DESIGN CATEGORY: D (BY DEFAULT)

THE PROJECT IS LOCATED IN SAN RAFAEL, CA, AND CONSISTS OF REPLACING EXISTING ROOFTOP UNITS WITH SIMILARLY SIZED NEW ROOFTOP UNITS. LOADING DOES NOT INCREASE BY MORE THAN 5%. THEREFORE, PER CEBC 503.3, THE EXISTING FRAMING IS PERMITTED TO REMAIN UNALTERED.

B GENERAL NOTES

- 1. REFER TO SHEETS **S1.1** FOR STANDARD DETAILS OF CONSTRUCTION. REFER TO THE PROJECT SPECIFICATIONS FOR MATERIALS AND METHODS.
- 2. BUILDING DIMENSIONS SHOWN ARE FOR GENERAL REFERENCE ONLY. SEE ARCHITECTURAL DRAWINGS (SAD) FOR ALL ACTUAL BUILDING DIMENSIONS. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER SO CLARIFICATION CAN BE MADE PRIOR TO COMMENCING
- 3. STRUCTURAL DRAWINGS SHALL NOT BE SCALED. ALL DIMENSIONS AND FIT SHALL BE DETERMINED AND VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING
- 4. DETAILS NOT FULLY OR SPECIFICALLY SHOWN SHALL BE OF SAME NATURE AS OTHER SIMILAR CONDITIONS.
- 5. COORDINATION OF MECHANICAL, ELECTRICAL, PLUMBING, AND SITE UTILITY SYSTEMS WITH THE STRUCTURAL SYSTEM IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. USE DETAILS ON SHEET <u>\$1.1</u>. AT CONDITIONS WHERE THESE DETAILS DO NOT APPEAR TO APPLY, NOTIFY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION. AT CONDITIONS WHERE FIELD MODIFICATIONS OF MECHANICAL, ELECTRICAL, PLUMBING, OR SITE UTILITIES AFFECT STRUCTURAL SYSTEMS, NOTIFY STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
- 6. VERIFY WEIGHTS AND LOCATIONS OF MECHANICAL UNITS WITH MECHANICAL ENGINEER PRIOR TO PLACEMENT. UNITS EXCEEDING WEIGHT NOTED ON PLANS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION. CONTRACTOR TO VERIFY MECHANICAL UNIT SIZES AND WEIGHTS AS INSTALLED PRIOR TO INSTALLATION OF ADDITIONAL FRAMING TO ENSURE CORRECT PLACEMENT UNDER CURBS, ETC. SEE 8/S1.3.
- 7. SHORING, SCAFFOLDING, AND BRACING DESIGN, MATERIALS AND INSTALLATION SHALL BE PROVIDED BY THE GENERAL CONTRACTOR, AND SHALL BE ADEQUATE FOR ALL LOADS. LEAVE IN PLACE AS LONG AS MAY BE REQUIRED FOR SAFETY AND UNTIL FINAL STRUCTURAL CONSTRUCTION IS COMPLETED. THE CONTRACTOR SHALL ENGAGE A LICENSED CIVIL OR STRUCTURAL ENGINEER TO PROVIDE

EXISTING CONSTRUCTION NOTES

- 1. IN PREPARING THE PROJECT PLANS, THE SOURCE OF INFORMATION WAS BASED ON THE EXISTING BUILDING PLANS PREPARED BY, H. M. EENGLE CIVIL & STRUCTURAL ENGINEER, DATED 03/19/1964. THE CONTRACTOR SHALL VERIFY ALL EXISTING JOB CONDITIONS, REVIEW THE PLANS AND VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ALL DISCREPANCIES AND EXCEPTIONS BEFORE PROCEEDING WITH ANY WORK. DRAWINGS FOR THE EXISTING CONSTRUCTION ARE AVAILABLE FOR REVIEW.
- 2. ALL WORK NOT INDICATED AS EXISTING (E) SHALL BE ASSUMED TO BE NEW (N).
- 3. ANY REMOVAL, CUTTING, DRILLING, ETC OF EXISTING WORK SHALL BE PERFORMED WITH GREAT CARE. SMALL TOOLS SHALL BE USED IN ORDER NOT TO JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE STRUCTURE. IF STRUCTURAL MEMBERS OR MECHANICAL, ELECTRICAL, OR ARCHITECTURAL ELEMENTS NOT INDICATED FOR REMOVAL INTERFERE WITH THE NEW WORK, THE ARCHITECT/ENGINEER SHALL BE IMMEDIATELY NOTIFIED AND PRIOR APPROVAL SHALL BE OBTAINED BEFORE REMOVAL OF THE MEMBERS.
- 4. DO NOT OVER CUT EXISTING WOOD, CONCRETE, MASONRY OR OTHER WORK TO REMAIN. CUTS SHALL BE MADE NEATLY TO A CORNER, THEN ALTERNATE MEANS SHALL BE USED TO REMOVE REMAINING MATERIAL. CONTRACTOR IS RESPONSIBLE FOR REPAIR/REPLACEMENT OF OVER CUT MATERIAL AS DIRECTED BY THE ARCHITECT AND/OR ENGINEER.
- 5. EXISTING DAMAGED STRUCTURAL MEMBERS WHICH ARE UNCOVERED SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND REPAIR.
- 6. EXISTING CONCRETE SURFACE ABUTTING NEW CONCRETE SHALL BE ROUGHENED TO ¼" AMPLITUDE AND THOROUGHLY CLEANED OF DUST, LOOSE AGGREGATE, LAITANCE, ETC.
- 7. EXISTING REINFORCING AND/OR STEEL EMBEDS THAT ARE EXPOSED DURING DEMOLITION SHALL BE WIRE-BRUSHED AND FOREIGN MATERIAL REMOVED PRIOR TO PLACEMENT OF NEW CONCRETE.
- 8. ALTERATIONS REQUIRE ASSUMPTIONS BE MADE REGARDING EXISTING CONDITIONS WHICH MAY NOT BE VERIFIABLE WITHOUT DESTROYING OTHERWISE ADEQUATE OR SERVICEABLE PORTIONS OF THE STRUCTURE. THIS ANALYSIS DOES NOT MAKE ANY GUARANTEE TO THE ADEQUACY OF THE STRUCTURAL DESIGN OF THE EXISTING BUILDING NOT SPECIFICALLY ADDRESSED IN THE STRUCTURAL CALCULATIONS. ZFA SHALL NOT BE RESPONSIBLE FOR UNSATISFACTORY PERFORMANCE OF EXISTING PORTIONS OF THE STRUCTURE NOT SPECIFICALLY ADDRESSED IN THE CONSTRUCTION DOCUMENTS.

MATERIAL DATA

(INFORMATION SHOWN IS FOR STRUCTURAL DESIGN REFERENCE ONLY. SEE THE PROJECT SPECIFICATIONS FOR ALL MATERIAL SPECIFICATIONS.)

STRUCTURAL STEEL (UNO):

ANCHOR RODS - ASTM F1554 GR 36 UNC

W SHAPES - ASTM A992 (Fy = 50,000 PSI) ANGLES, CHANNELS, AND PLATES - ASTM A36 (Fy = 36,000 PSI)

HIGH STRENGTH BOLTS - ASTM F3125 GRADE A325 OR F1852 UNO

FASTENERS: MACHINE BOLTS - ASTM A307 GRADE A

WOOD BASE DESIGN STRESSES (UNO):

ARC-WELDING ELECTRODES - E70

SAWN LUMBER MEMBER	SPECIES AND MINIMUM GRADE, UNO	F <sub>b</sub> (PSI)	F <sub>v</sub> (PSI)	E (PSI)
6x POSTS	DOUGLAS FIR - #1	1200	170	1.6x10 <sup>6</sup>
6x BEAMS	DOUGLAS FIR - #1	1350	170	1.6x10 <sup>6</sup>
4x POSTS & BEAMS	DOUGLAS FIR - #1	1000	180	1.7x10 <sup>6</sup>
2x JOISTS, RAFTERS	DOUGLAS FIR - #1	1000	180	1.7x10 <sup>6</sup>
P MATERIAL	DOUGLAS FIR - #1	1000	180	1.7x10 <sup>6</sup>
2x STUDS	DOUGLAS FIR - #1	1000	180	1.7x10 <sup>6</sup>

FOR METAL CONNECTOR DESIGNATION REFER TO SIMPSON STRONG-TIE PER SPECIFICATIONS.



**310 NOVA ALBION WAY** SAN RAFAEL, CA 94903 TEL: 415.492.3200 FAX: 415.492.3229

Revisions Revisions

NOT FOR CONSTRUCTION

DESIGN **DEVELOPMENT** 

**ZFA** STRUCTURAL ENGINEERS 601 montgomery street | suite 1450 zfa.com san francisco ca 94111 415.243.4091

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zfa job no. 24552

Architects, Inc 4602 2nd Street, Suite 3 Davis, CA 95618

530.758.1270 tel | 530.758.4789 fax HY Architects Project number:

SAN RAFAEL HIGH SCHOOL 150 3RD STREET, SAN RAFAEL, CA 94901

**BLDG LA HVAC UPGRADES** 

**GENERAL NOTES AND SPECIFICATIONS** 

Client Project Number: As indicated Drawn By:

NOV 1,

Checked By:

Issue Date: NOV ., 2024

Revit Version: 2023

**S0.1** 

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT SCALE ACCORDINGLY 0 5' GRAPHIC SCALES: 1/16" = 1'-0" 1/8" = 1'-0" 1/4" = 1'-0" 1 1/2" = 1'-0" 3" = 1'-0" SAN RAFAEL 310 NOVA ALBION WAY SAN RAFAEL, CA 94903 TEL: 415.492.3200 FAX: 415.492.3229 /#\ Revisions Revisions NOT FOR CONSTRUCTION DESIGN DEVELOPMENT <u>C9</u> (E) STEEL OPEN WEB TRUSSES @ 36"oc TYP UNO (E) UNIT TO BE REMOVED AND REPLACED W/ MECH UNIT 3,465# MAX EXTEND (E) PAD (E) STEEL COL BLW HEIGHT TO MATCH (E) EMBEDDED INTO (E) CONC WALL PTDF 4x @ 24"oc RAISED PAD FRAMING **ZFA** STRUCTURAL ENGINEERS — (E) 10" CONC WALL BLW TYP (E) CONC PLATFORM 601 montgomery street | suite 1450 zfa.com san francisco ca 94111 415.243.4091 (E) UNIT TO BE REMOVED AND +TO REMAIN REPLACED W/ MECH UNIT (E) W12 copyright © 2024 761# MAX (E) UNIT TO BE REMOVED AND zfa job no. 24552 RÉPLACED W/ MECH UNIT 4,613# MAX (E) UNIT AT 34" PLY SHTG PLATFORM TO REMAIN UNO — (E) 3" CONC SLAB W/ #3 @ 18"oc TOP AND 6x6 W4x4 MESH BOT TYP ENTIRE ROOF (E) WOOD PLATFORM TO REMAIN (2A) HY Architects Project number: SAN RAFAEL HIGH SCHOOL 150 3RD STREET, SAN RAFAEL, CA 94901 BLDG LA HVAC UPGRADES ROOF FRAMING PLAN ROOF FRAMING PLAN

1/8" = 1'-0" Client Project Number:

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Architects, Inc 4602 2nd Street, Suite 3 530.758.1270 tel¦530.758.4789 fax

Checked By: -Issue Date: NOV 1, 2024

Revit Version: 2023

**S2.1** 

## **MECHANICAL GENERAL NOTES**

- 1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES, AND INDUSTRY STANDARDS.
- 2. VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS, AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN (E) SYSTEMS AND DRAWINGS.
- 3. COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS, AND WALLS WITH ARCHITECTURAL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
- 4. COORDINATE EXACT SIZE AND ROUTING OF DUCTWORK WITH ARCHITECTURAL PLANS, STRUCTURE, AND EQUIPMENT PRIOR TO
- 5. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES. 6. FURNISH AND INSTALL MANUAL AIR DAMPERS AT ALL DUCT BRANCH TAKEOFFS TO A SINGLE DIFFUSER, GRILLE, OR REGISTER.
- 7. FLEXIBLE DUCTWORK CONNECTIONS TO CEILING DIFFUSERS ARE LIMITED TO 5' MAXIMUM LENGTH.
- 8. ALL DUCTWORK, CEILING DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING, ETC. ARE NEW U.O.N. (SHOWN HEAVY). (E) DUCTWORK, PIPING, ETC. IS SHOWN LIGHT. SEE LEGEND.
- 9. (E) DUCTWORK AND ITEMS TO BE REMOVED ARE SHOWN CROSSED ("X") OUT, SEE LEGEND. COORDINATE CLOSELY WITH (N) DÚCTWORK AND P.O.C.'S SHOWN. ALL OTHER (E) DUCTWORK, ETC. TO REMAIN.
- 10. WHERE INLET DUCT DIAMETER AND DIFFUSER NECK SIZE ARE THE SAME (I.E. 9"ø AND 9x9) CONTRACTOR SHALL OVERSIZE THE SHEET METAL PLENUM TO ACCOMMODATE THE ROUND DUCT CONNECTION.
- 11. THERMOSTATS AND ROOM TEMPERATURE SENSORS SHALL BE INSTALLED AT +46" ABOVE FINISHED FLOOR (TO TOP OF DEVICE). DO NOT INSTALL THERMOSTATS AND ROOM TEMPERATURE SENSORS ABOVE CASEWORK, SHELVING OR OTHER OBSTRUCTIONS OVER 24" IN DEPTH AND 34" IN HEIGHT.

#### MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

- 1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
- 2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
- 3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

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

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

# MEP DISTRIBUTION SYSTEM BRACING NOTE FOR PIPING, DUCTWORK, & ELECTRICAL CONDUIT

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.126.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. THE MEP DESIGN PROFESSIONAL ENGINEER RESPONSIBLE FOR CONTENT ON THESE SHEETS HAS VERIFIED THAT THE DESIGN METHODS IDENTIFIED BELOW ARE IN ACCORDANCE WITH DSA IR 16-13.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E): MP ⋈ MD ⋈ PP ⋈ E □ OPTION 1: PROJECT SPECIFIC DESIGN.

MP □ MD □ PP □ E □ OPTION 2: DESIGN BASED ON OSHPD OPM, WITHIN PROJECT SUBMITTAL.

IN COMPLIANCE WITH THE ENERGY CODE.

MP □ MD □ PP □ E □ OPTION 3: DESIGN BASED ON OSHPD OPM, DEFERRED SUBMITTAL.

# CALIFORNIA ENERGY CODE - ACCEPTANCE TESTING

. 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

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST

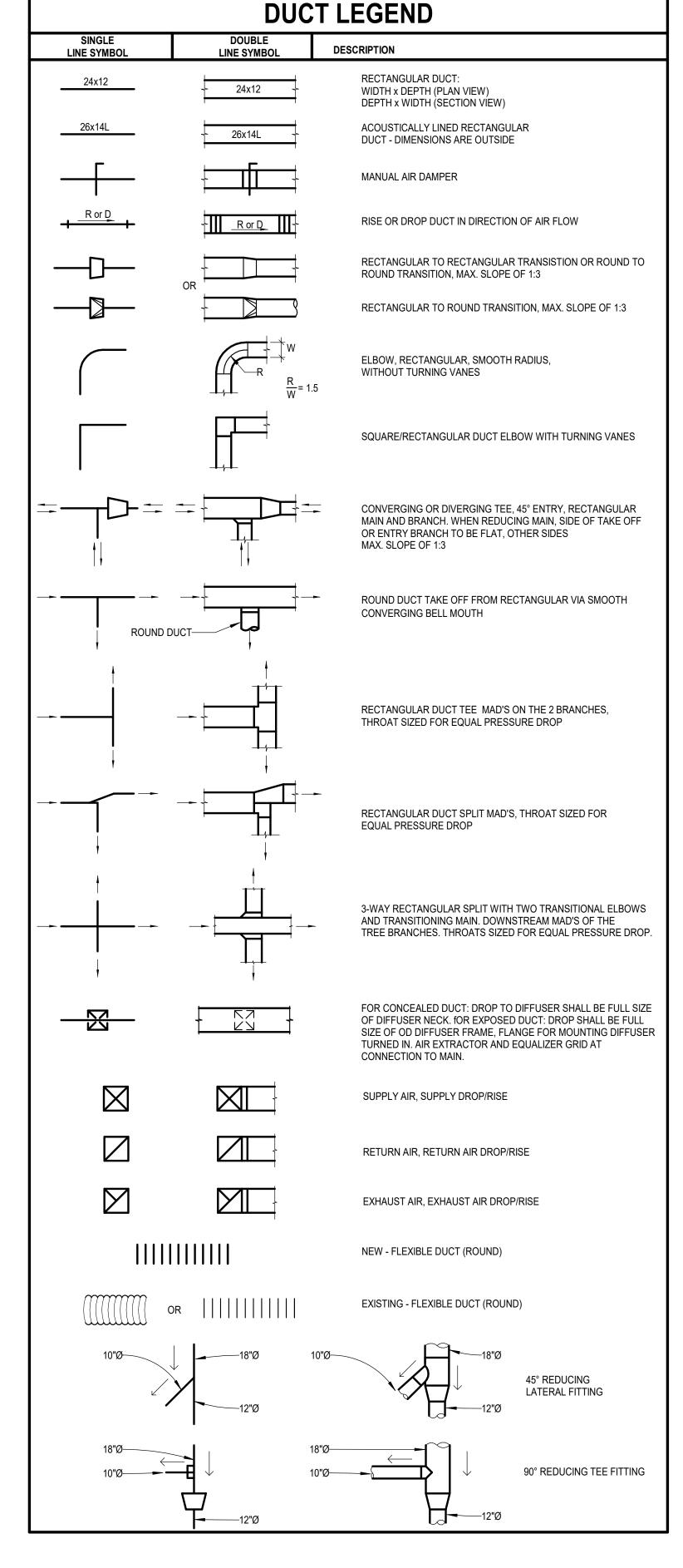
MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR

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-THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

YMBOL	HVAC ABE	SYMBOL	DESCRIPTION
D\C	2230M HOH	O I MIDOL	
ABC ABV	ABOVE CEILING ABOVE	KEF	KITCHEN EXHAUST FAN
ACC DR	ACCESS DOOR	KW	KILOWATTS
ACC P	ACCESS PANEL	LAV	LAVATORY
ACU AFF	AIR CONDITIONING UNIT ABOVE FINISHED FLOOR	LAT LBS	LEAVING AIR TEMPERATURE POUNDS
AHU	AIR HANDLING UNIT	LDS	LOUVERED DOOR
APD	AIR PRESSURE DROP, INCHES WATER COLUMN	LDB	LEAVING DRY BULB
APPROX ARCH	APPROXIMATE ARCHITECTURAL	LPS	LOW PRESSURE STEAM
ATTEN	ATTENUATORS	LRA LTCP	LOCKED ROTOR AMPS  LOCAL TEMPERATURE CONTROL PANEL
ATV	ACOUSTIC TURNING VANE	LVR	LOUVER
		LWB LWT	LEAVING WET BULB LEAVING WATER TEMPERATURE
BD	BALANCE DAMPER		
BDD	BACK DRAFT DAMPER BRAKE HORSE POWER	MAT MAU	MIXED AIR TEMPERATURE  MAKE-UP AIR UNIT
BHP BLDG	BUILDING	MAV	MANUAL AIR VENT
BOD	BOTTOM OF DUCT	MAX	MAXIMUM
BOR BTUH	BOTTOM OF REGISTER BRITISH THERMAL UNITS PER HOUR	MBH MCA	THOUSAND BTUs PER HOUR MINIMUM CIRCUIT AMPACITY
БТОП	BRITISH THERIVIAL UNITS FER HOUR	MCC	MOTOR CONTROL CENTER
		MD	MOTORIZED
CAP CD	CAPACITY CONDENSATE DRAIN	MECH MFR	MECHANICAL MANUFACTURER
CEF	CEILING EXHAUST FAN	MIN	MINIMUM
CFH	CUBIC FEET OF GAS PER HOUR	MOCP	MAXIMUM OVERCURRENT PROTECTION
CHV/	CUBIC FEET OF AIR FLOW PER MINUTE		
CHV CLG	CHECK VALVE CEILING	OA	OUTSIDE AIR
CLR	CLEAR	OAD	OUTSIDE AIR DAMPER
CONC	CONCRETE	OC	ON CENTER
COND	CONDENSER CONNECT/CONNECTION	OD OH	OUTSIDE DIAMETER OVERHEAD
CONT	CONTINUATION	ON	OUTLET VELOCITY
CONTR	CONTRACTOR	D05	DIMBED COMPENSATE -
		PCR PD	PUMPED CONDENSATE RETURN PRESSURE DROP
D	DAMPER	PRV	PRESSURE REDUCING VALVE/
DGP	DATA GATHERING PANEL	DOL/OV (1)	PRESSURE REGULATING VALVE
DIA DL	DIAMETER DOOR LOUVER	PSI (G) (A)	POUNDS PER SQUARE INCH (GAUGE) (ABSOLUTE)
DN	DOWN	RA	RETURN AIR
DSP	DRY STAND PIPE	RAD	RETURN AIR DAMPER
DB	DRY BULB	REF	ROOF EXHAUST FAN
DTR	DOWN THROUGH ROOF	RF	RETURN FAN
DWG	DRAWING	RPM RLA	REVOLUTIONS PER MINUTE RATED LOAD AMPS
EA	EXHAUST AIR	RLA RV	RELIEF VENTILATOR
EAD	EXHAUST AIR DAMPER		
EC	EVAPORATIVE COOLER	S&R	SUPPLY AND RETURN
EDB EER	ENTERING DRY BULB ENERGY EFFICIENCY RATING	SA	SUPPLY AIR
EF	EXHAUST FAN	SAD SB	SEE ARCHITECTURAL DRAWINGS SECURITY BARS
EFF	EFFICIENCY ENGLISHED	SD	SPLITTER DAMPER
EH EL	EXHAUST HOOD ELEVATION	SEER	SEASONAL ENERGY EFFICIENCY RATING
ELEC	ELECTRIC/ELECTRICAL	SF SG	SUPPLY FAN STEAM GENERATOR
ENT	ENTERING	SK	SINK
EQUIP ESP	EQUIPMENT EXTERNAL STATIC PRESSURE	SM	SHEET METAL
EVAP	EVAPORATOR	SOV SP	SHUT OFF VALVE STATIC PRESSURE
EW	ENTERING WATER	SPD	STATIC PRESSURE DROP
EWB EWC	ENTERING WET BULB ELECTRIC WATER COOLER	SQ FT	SQUARE FEET
EWT	ENTERING WATER TEMPERATURE	SQ IN SS	SQUARE INCHES STAINLESS STEEL
EXH	EXHAUST	STR	STRAINER
EXT f	EXPANSION TANK  CUBIC FEET OF AIR FLOW PER MINUTE	STRUC	STRUCTURAL
F	DEGREES FAHRENHEIT		
FA	FROM ABOVE	T TA	THERMOSTAT TO ABOVE
FB FC	FROM BELOW FLEXIBLE CONNECTION	TA TB	TO ABOVE TO BELOW
FCV FCV	FLOW CONTROL VALVE	T.C.C.	TEMPERATURE CONTROL CONTRACTOR
FD	FIRE DAMPER	TCP	TEMPERATURE CONTROL VALVE
FF EIN	FLY FAN	TCV TEMP	TEMPERATURE CONTROL VALVE TEMPERATURE
FIN FLA	FINISH FULL LOAD AMPS	TFH	THERMAL FLUID HEATER
FLR	FLOOR	THK	THICK
FPM ESD	FEET PER MINUTE	TP TS	TOTAL PRESSURE TEMPERATURE SENSOR
FSD FT (')	FIRE AND SMOKE DAMPER FOOT OR FEET	TSP	TOTAL STATIC PRESSURE
FT 2	SQUARE FEET	TYP	TYPICAL
FV	FACE VELOCITY	UCD	UNDERCUT DOOR
		UF	UNDERFLOOR
GA	GAUGE	UG	UNDERGROUND
GALV GI	GALVANIZED GALVANIZED IRON	UON	UNLESS OTHERWISE NOTED
GPH	GALLONS PER HOUR	UTR	UP THROUGH ROOF
GPM	GALLONS PER MINUTE	V (VTR)	VENT (VENT THROUGH ROOF)
		VAC	VACUUM
HC	HEATING COIL	VD VE	VOLUME DAMPER
HDG	HEAVY DUTY GRILLE	VF VFC	VENTILATION FAN  VARIABLE FREQUENCY CONTROLLER
HP HPS	HORSE POWER HIGH PRESSURE STEAM	VLV	VALVE VALVE
HTG	HEATING	VRF	VARIABLE REFRIGERANT FLOW
HV	HAND VALVE	VSD VV	VARIABLE SPEED DRIVE VARIABLE AIR VOLUME CONTROLLER
HW HWR	HOT WATER HOT WATER RETURN	VV VVRH	VARIABLE AIR VOLUME CONTROLLER  VARIABLE AIR VOLUME CONTROLLER WITH REHEA
HWS	HOT WATER RETURN HOT WATER SUPPLY		
		W	WATTS
ICF	INSTANTENEOUS CURRENT FLOW	WALL MTD (R) WB	WALL MOUNTED (RECESSED) WET BULB
ΙE	INVERT ELEVATION	WC	WATER CLOSET
IN, (")	INCH SOLIABE INCHES	WMS	WIRE MESH SCREEN
IN <sup>2</sup>	SQUARE INCHES	WP WPD	WORKING PRESSURE WATER PRESSURE DROP FEET OF WATER COLUM
		v v = 1 /	WATER I DESCURE DRUP FEET OF WATER COLUN



MECHANICAL SHEET LIST

MECHANICAL LEGEND AND NOTES

M2.01 MECHANICAL FLOOR PLAN - FIRST LEVEL M2.02 MECHANICAL FLOOR PLAN - SECOND LEVEL

M2.03 MECHANICAL FLOOR PLAN - THIRD LEVEL

M2.04D MECHANICAL DEMOLITION ROOF PLAN

M6.01 MECHANICAL CONTROL DIAGRAMS
M7.01 MECHANICAL TITLE 24 DOCUMENTATION

M0.02 MECHANICAL SCHEDULES

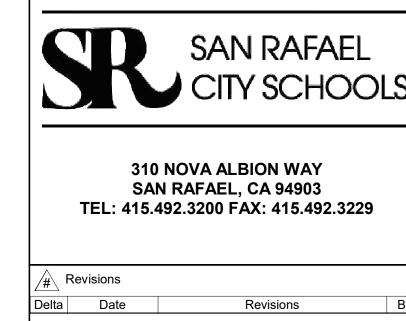
M2.04 MECHANICAL ROOF PLAN

M5.01 MECHANICAL DETAILS M5.02 MECHANICAL DETAILS

Sheet Name

Number

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**DEVELOPMENT** 

RC - CS/EG

PM - DESIGN TEAM PROJECT NO

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Architects, Inc 510.446.2222 tel | 510.446.2211 fax

HY Architects Project number:

SAN RAFAEL HIGH SCHOOL 150 3RD STREET, SAN RAFAEL, CA 94901

BLDG LA HVAC UPGRADES

MECHANICAL LEGEND AND

Client Project Number: 1" = 1'-0" Drawn By: Author Checked By: Checker Issue Date: 11/01/24 Revit Version: 2023

																,					<b>.</b>																		
					FILTE	ERS			HEAT RE	COVERY CO	OIL		ELEC HEAT	ΓER							DX COIL								FAN				ELECT	RICAL	OPER. WT.				
UNIT	LOCATION SERVED	"DAIKIN" MODEL	CFM							FH FI	FACE	APD					FH	FI on	FACE	APD SE	ENS.	TOTAL OOLING C	CLG. CLG.	CLG.	TOTAL HEATING HI	TG. HT	G.								(LBS.)	MOUI DE		CONTROL DIAGRAM	NOTES
	SERVED	MODEL		EFFICIENCY	MAX FACE VEL. FPM	SIZE (QTY.)	DEPTH	FLUID QT	Y. ROWS	(IN.) (IN	· VEL. ·) FPM	(IN. VOL WG)	7PH KW	FLA	FLUID QT	Y. ROWS	FPI (IN.)	(IN.)	FPM	(IN. COC WG) C	AP.	OOLING CAP. (MBH)	EDB EWB	CLG. LDB (°F)	HEATING EI CAP. (°	DB LD F) (°F	B QTY. H	Р ВНР	CFM (II	P TSP F I. (IN. F G.) W.G.)	FAN M. RPM R	AX. PM VOLT/	/PH M	MCA MOCP	JNIT ROOF CURB T	OTAL			
															CKT A 1	4	6 22	73 5,640	505	0.29		144.1 9	96.0 71.0	74.0	138.0 50	0.0 70.													
AHU 1S	BUILDING LA	OAH039GVCM	18,830	MERV 13	370	24x24 (15)	4	R410A 2	10	36 73	520	1.0 48	/3 71.6	86.4	CKT B 1	4	6 22	73 5,640	505	0.29		144.1 9	96.0 71.0	74.0	138.0 50	0.0 70.		.6 4.95 A. EA.		0 4.44 2	2,410 2, FA. F	600 A. 208/	/3 6	87.2 80 4	4,615 420	5,035 M	$\frac{4}{5.02}$	$\left(\frac{3}{M6.01}\right)$	1 2 3
															CKT C 1	4	6 22	73 7,520	530	0.32		168.0 9	96.0 71.0	74.0	145.7 50	0.0 70.												M6.01	
AHU 1R	BUILDING LA	OAH039GVCM	17,750	MERV 13	370	24x24 (15)	4	R410A 2	10	36 73	490	1.0 N	A N/A	N/A	N/A N/	A N/A	N/A N/A	N/A N/A	N/A	N/A N	N/A	N/A	N/A N/A	N/A	N/A N	I/A N/	A 3 6	.6 4.65 A. EA.	5,917 EA.	5 2.89 2	2,390 2, EA. E	600 A. 208/	/3 5	51.4 60	3,465 340	3,805 MS	5.02	4 M6.01	1 3

0 5'

- 1) UNITS SELECTED AT 96 F DB / 71 F WB SUMMER AMBIENT, 30 F DB WINTER AMBIENT AIR TEMPERATURES. COOLING CAPACITIES SCHEDULED ARE NET SENSIBLE & NET TOTAL CAPACITIES.
- 2 PROVIDE SEPARATE 480V/3PH POWER CONNECTION FOR ELECTRIC HEATER, 208V/3PH CONNECTION FOR FANS.
- (3) HEAT RECOVERY COIL SHALL HAVE SHUTDOWN CAPABILITY FOR ECONOMIZER OPERATION, BY BMS.

	HEAT PUMP UNIT SCHEDULE													
LINUT	LOCATION	"DAIKIN" MODEL	COOL	HEAT	ELECT	RICAL DAT	A	EER	COD	OPER. WT.	MOUNTING	CONTROL	NOTES	
UNIT	LOCATION	NO.	(BTUH)	(BTUH)	VOLT/PH	MCA	MOCP	(IEER)	COP	(LBS.)	DETAIL	DIAGRAM	NOTES	
HP 4B	ROOF	RXYQ144AAYDB	144,000	162,000	460/3	21.3	25	11.0 (21.8)	3.3	765	1 M5.02	2 M6.01	1	

### NOTES:

#### 1 R410 REFRIGERANT.

- (2) COOLING CAPACITY RATED AT 80 DEG. F DB / 67 DEG. F WB INDOOR AIR AND 95 DEG. F DB OUTDOOR AIR.
- 3 HEATING CAPACITY IS RATED AT 70 DEG. F DB / 60 DEG. F WB INDOOR AIR AND 47 DEG. F DB OUTDOOR AIR.



**310 NOVA ALBION WAY** SAN RAFAEL, CA 94903 TEL: 415.492.3200 FAX: 415.492.3229

/# Revisions Revisions

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HY Architects Project number:

SAN RAFAEL HIGH SCHOOL 150 3RD STREET, SAN RAFAEL, CA 94901

BLDG LA HVAC UPGRADES

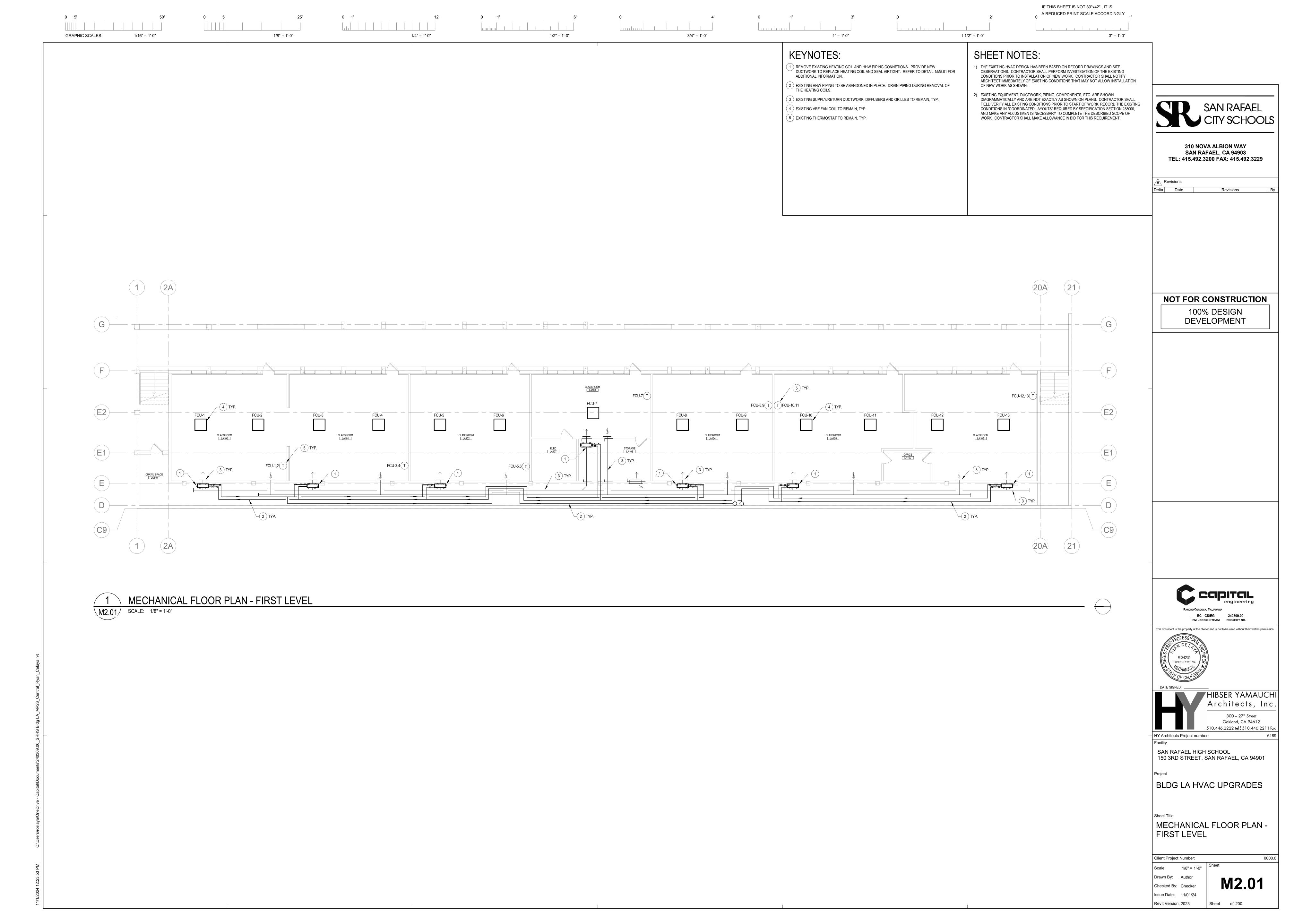
MECHANICAL SCHEDULES

Client Project Number:

Scale: 12" = 1'-0" Sheet Drawn By: Author Checked By: Checker Issue Date: 11/01/24

Revit Version: 2023

M0.02



A REDUCED PRINT SCALE ACCORDINGLY 0 5' **GRAPHIC SCALES:** 1/16" = 1'-0" 1/8" = 1'-0" 1/4" = 1'-0" 1 1/2" = 1'-0" 3" = 1'-0" **KEYNOTES:** SHEET NOTES: REMOVE EXISTING HEATING COIL AND HHW PIPING CONNETIONS. PROVIDE NEW DUCTWORK TO REPLACE HEATING COIL AND SEAL AIRTIGHT. REFER TO DETAIL 1/M5.01 FOR ADDITIONAL INFORMATION. ) THE EXISTING HVAC DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF THE EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION 2 EXISTING HHW PIPING TO BE ABANDONED IN PLACE. DRAIN PIPING DURING REMOVAL OF OF NEW WORK AS SHOWN. ) EXISTING EQUIPMENT, DUCTWORK, PIPING, COMPONENTS, ETC. ARE SHOWN (3) EXISTING SUPPLY/RETURN DUCTWORK, DIFFUSERS AND GRILLES TO REMAIN, TYP. DIAGRAMMATICALLY AND ARE NOT EXACTLY AS SHOWN ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK, RECORD THE EXISTING (4) EXISTING VRF FAN COIL TO REMAIN, TYP. CONDITIONS IN "COORDINATED LAYOUTS" REQUIRED BY SPECIFICATION SECTION 238000, AND MAKE ANY ADJUSTMENTS NECESSARY TO COMPLETE THE DESCRIBED SCOPE OF (5) EXISTING THERMOSTAT TO REMAIN, TYP. WORK. CONTRACTOR SHALL MAKE ALLOWANCE IN BID FOR THIS REQUIREMENT. **310 NOVA ALBION WAY** SAN RAFAEL, CA 94903 TEL: 415.492.3200 FAX: 415.492.3229 /#\ Revisions Delta Date Revisions (2A) NOT FOR CONSTRUCTION 100% DESIGN **DEVELOPMENT** (G) FCU-16,17 T T FCU-18,19 PM - DESIGN TEAM PROJECT NO. This document is the property of the Owner and is not to be used without their written permission FCU-28,29 (T) T) FCU-26,27 T)FCU-24,25 (T)FCU-30,31 HIBSER YAMAUCHI Architects, Inc 510.446.2222 tel ¦ 510.446.2211 fax HY Architects Project number: SAN RAFAEL HIGH SCHOOL 150 3RD STREET, SAN RAFAEL, CA 94901 BLDG LA HVAC UPGRADES 20A 2A MECHANICAL FLOOR PLAN -SECOND LEVEL MECHANICAL FLOOR PLAN - SECOND LEVEL M2.02 | SCALE: 1/8" = 1'-0" Client Project Number: Drawn By: Author M2.02 Checked By: Checker Issue Date: 11/01/24 Revit Version: 2023

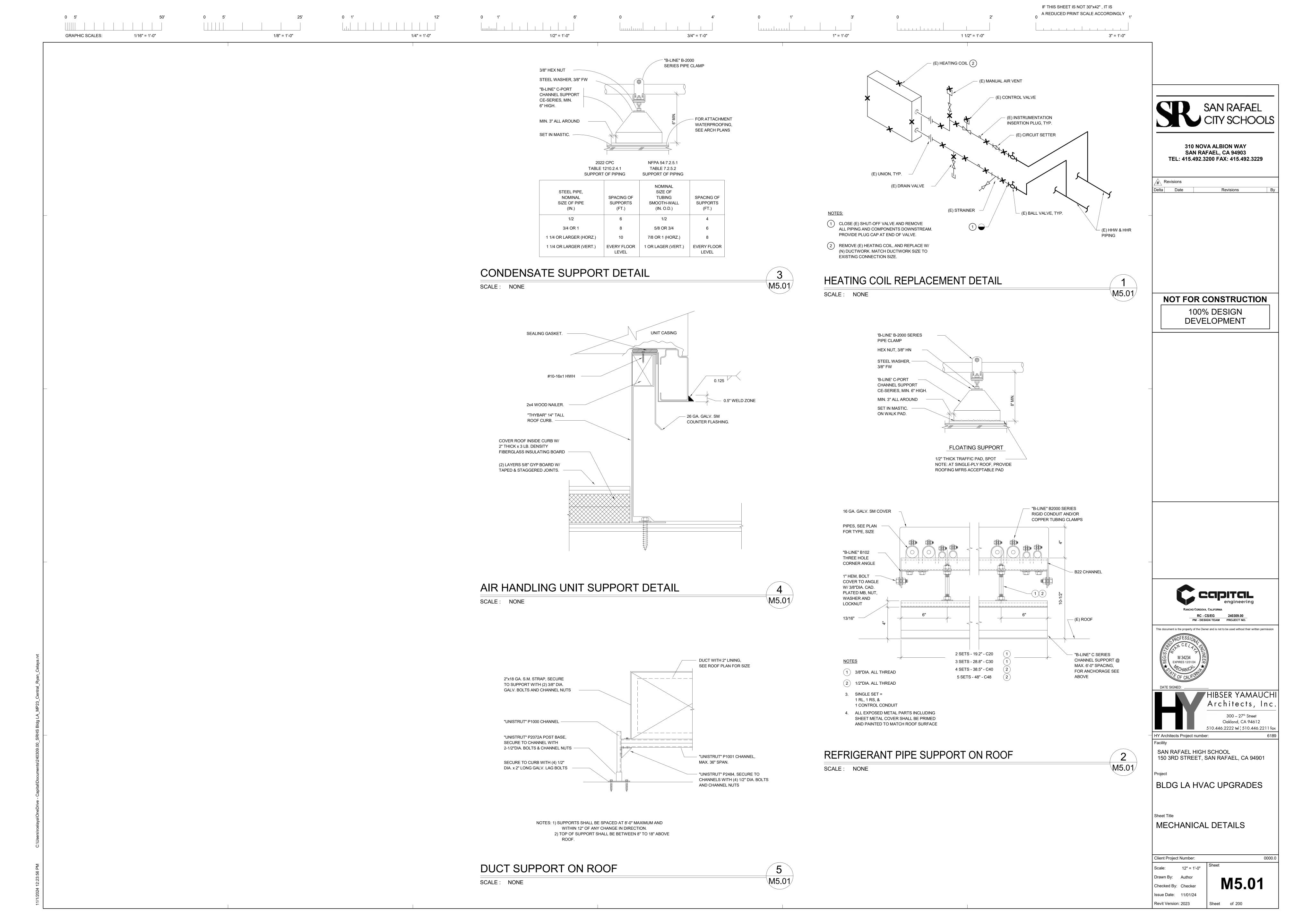
A REDUCED PRINT SCALE ACCORDINGLY 0 5' GRAPHIC SCALES: 1/16" = 1'-0" 1/8" = 1'-0" 1/4" = 1'-0" 1 1/2" = 1'-0" 3" = 1'-0" **KEYNOTES:** SHEET NOTES: ) THE EXISTING HVAC DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE REMOVE EXISTING HEATING COIL AND HHW PIPING CONNETIONS. PROVIDE NEW DUCTWORK TO REPLACE HEATING COIL AND SEAL AIRTIGHT. REFER TO DETAIL 1/M5.01 FOR OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF THE EXISTING ADDITIONAL INFORMATION. CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION 2 ) EXISTING HHW PIPING TO BE ABANDONED IN PLACE. DRAIN PIPING DURING REMOVAL OF OF NEW WORK AS SHOWN. THE HEATING COILS. ) EXISTING EQUIPMENT, DUCTWORK, PIPING, COMPONENTS, ETC. ARE SHOWN (3) EXISTING SUPPLY/RETURN DUCTWORK, DIFFUSERS AND GRILLES TO REMAIN, TYP. DIAGRAMMATICALLY AND ARE NOT EXACTLY AS SHOWN ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK, RECORD THE EXISTING (4) EXISTING VRF FAN COIL TO REMAIN, TYP. CONDITIONS IN "COORDINATED LAYOUTS" REQUIRED BY SPECIFICATION SECTION 238000, AND MAKE ANY ADJUSTMENTS NECESSARY TO COMPLETE THE DESCRIBED SCOPE OF (5) EXISTING THERMOSTAT TO REMAIN, TYP. WORK. CONTRACTOR SHALL MAKE ALLOWANCE IN BID FOR THIS REQUIREMENT. 310 NOVA ALBION WAY SAN RAFAEL, CA 94903 TEL: 415.492.3200 FAX: 415.492.3229 /#\ Revisions Delta Date Revisions NOT FOR CONSTRUCTION 100% DESIGN **DEVELOPMENT** (D) CLASSROOM 157 CLASSROOM 156 PM - DESIGN TEAM PROJECT NO. This document is the property of the Owner and is not to be used without their written permission Architects, Inc 510.446.2222 tel¦510.446.2211 fax HY Architects Project number: STORAGE 169 SAN RAFAEL HIGH SCHOOL 150 3RD STREET, SAN RAFAEL, CA 94901 **EQUIPMENT** BLDG LA HVAC UPGRADES MECHANICAL FLOOR PLAN -THIRD LEVEL Client Project Number: MECHANICAL FLOOR PLAN - THIRD LEVEL M2.03 SCALE: 1/8" = 1'-0" M2.03 Checked By: Checker Issue Date: 11/01/24

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A REDUCED PRINT SCALE ACCORDINGLY 0 5' GRAPHIC SCALES: 1/4" = 1'-0" 1 1/2" = 1'-0" 1/16" = 1'-0" 1/8" = 1'-0" 3" = 1'-0" SHEET NOTES: **KEYNOTES:** 1) THE EXISTING HVAC DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF THE EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION OF NEW WORK AS SHOWN. 2) EXISTING EQUIPMENT, DUCTWORK, PIPING, COMPONENTS, ETC. ARE SHOWN DIAGRAMMATICALLY AND ARE NOT EXACTLY AS SHOWN ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK, RECORD THE EXISTING CONDITIONS IN "COORDINATED LAYOUTS" REQUIRED BY SPECIFICATION SECTION 238000, AND MAKE ANY ADJUSTMENTS NECESSARY TO COMPLETE THE DESCRIBED SCOPE OF WORK. CONTRACTOR SHALL MAKE ALLOWANCE IN BID FOR THIS REQUIREMENT. **310 NOVA ALBION WAY** SAN RAFAEL, CA 94903 TEL: 415.492.3200 FAX: 415.492.3229 /# Revisions Delta Date Revisions NOT FOR CONSTRUCTION 100% DESIGN DEVELOPMENT REMOVE (E) AHU, SUPPORTS, AND DUCTWORK CONNECTIONS. PM - DESIGN TEAM PROJECT NO. This document is the property of the Owner and is not to be used without their written permission REMOVE (E) DUCTWORK AND SUPPORTS, UP TO EXISTING DUCT DROPS DOWN THRU ROOF, TYP. REMOVE (E) REFRIGERANT PIPING AND SUPPORTS. — ROOF TO REMAIN, TYP. 510.446.2222 tel ¦ 510.446.2211 fax HY Architects Project number: — REMOVE (E) 12-TON MODULE OF (E) <u>CU-4</u>. SAN RAFAEL HIGH SCHOOL 150 3RD STREET, SAN RAFAEL, CA 94901 BLDG LA HVAC UPGRADES MECHANICAL DEMOLITION ROOF PLAN Client Project Number: HVAC DEMOLITION ROOF PLAN M2.04D SCALE: 1/8" = 1'-0" M2.04D Checked By: Checker Issue Date: 11/01/24 Revit Version: 2023

A REDUCED PRINT SCALE ACCORDINGLY 0 5' GRAPHIC SCALES: 1/16" = 1'-0" 1/4" = 1'-0" 1 1/2" = 1'-0" 1/8" = 1'-0" 3" = 1'-0" **KEYNOTES:** SHEET NOTES: 1) THE EXISTING HVAC DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF THE EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION OF NEW WORK AS SHOWN. 2) EXISTING EQUIPMENT, DUCTWORK, PIPING, COMPONENTS, ETC. ARE SHOWN DIAGRAMMATICALLY AND ARE NOT EXACTLY AS SHOWN ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK, RECORD THE EXISTING CONDITIONS IN "COORDINATED LAYOUTS" REQUIRED BY SPECIFICATION SECTION 238000, AND MAKE ANY ADJUSTMENTS NECESSARY TO COMPLETE THE DESCRIBED SCOPE OF WORK. CONTRACTOR SHALL MAKE ALLOWANCE IN BID FOR THIS REQUIREMENT. **310 NOVA ALBION WAY** SAN RAFAEL, CA 94903 TEL: 415.492.3200 FAX: 415.492.3229 /# Revisions Delta Date Revisions NOT FOR CONSTRUCTION 100% DESIGN DEVELOPMENT HEAT RECOVERY REFRIGERANT PIPING, MOUNTED ON ROOF — This document is the property of the Owner and is not to be used without their written permission (E) ROOF DRAIN — 510.446.2222 tel¦510.446.2211 fax HY Architects Project number: SAN RAFAEL HIGH SCHOOL 150 3RD STREET, SAN RAFAEL, CA 94901 BLDG LA HVAC UPGRADES MECHANICAL ROOF PLAN Client Project Number: MECHANICAL ROOF PLAN M2.04 | SCALE: 1/8" = 1'-0" M2.04 Checked By: Checker Issue Date: 11/01/24 Revit Version: 2023

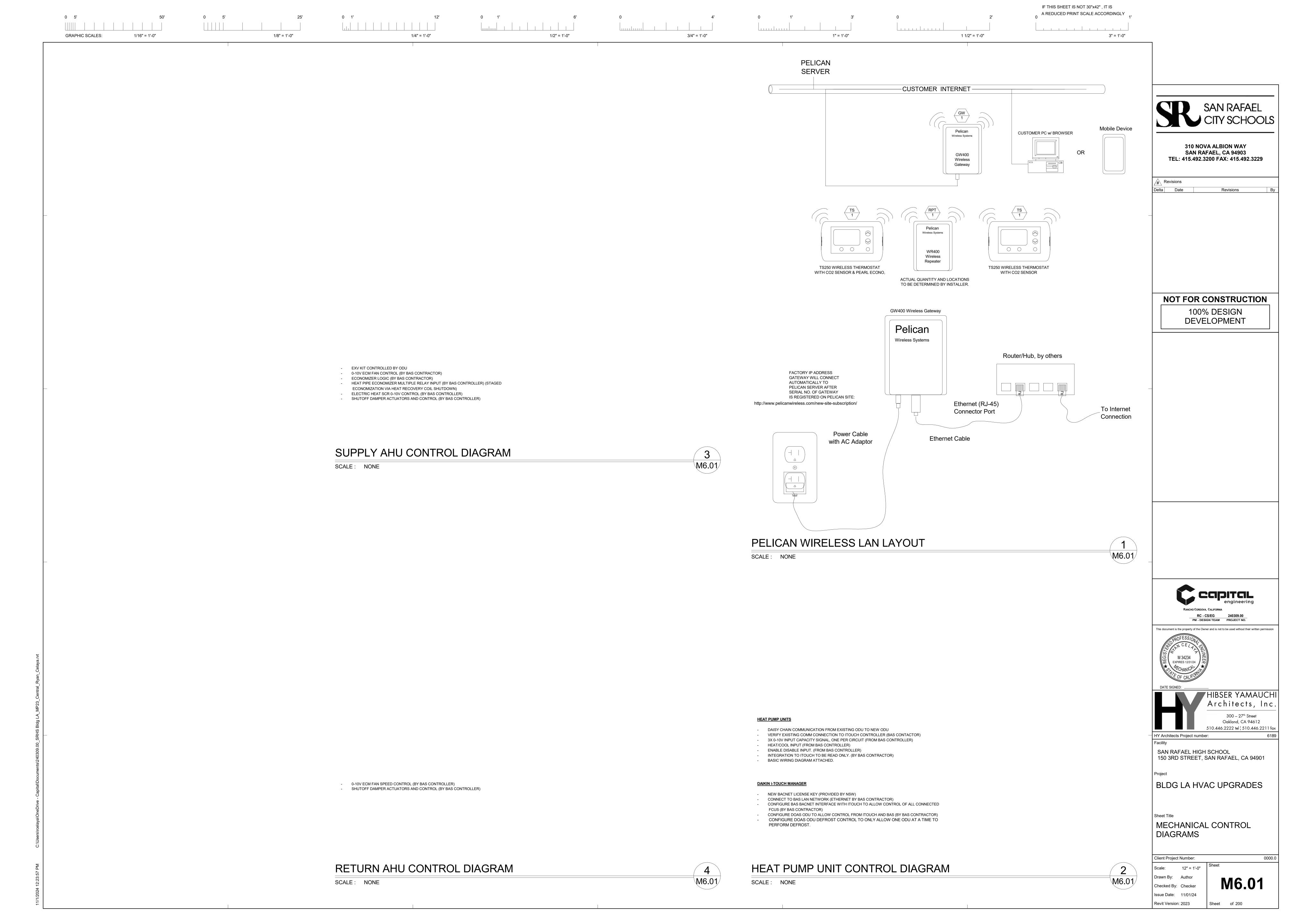


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 BE CENTERED TO
 EQUIPMENT FRAME GC
 TO FIELD VERIFY VIBRATION PAD S.M.D (6) PER SECTION BLDG LA HVAC UPGRADES SLEEPER FOR 2 UNITS \_ 6X8 SHAPED P.T. SLEEPER W/ ½"□ COUNTERSUME THROUGH BOLT THROUGH (E) 3" CONCRETE OVER " FORMDECK \_ (E) 20" OPENWEB STEEL  $\angle \frac{1}{4}$ "X3"X3" 2'-6 1/4" LONG TYP – (E) 20" OPENWEB STEEL BAR JOIST @ 36" O.C. VIF NOTE: ALL FASTENERS AND METAL PLATES SHALL BE HOT-DIPPED GALVANIZED MECHANICAL DETAILS FRONT/BACK ELEVATION SECTION A-A Client Project Number: VRF HEAT PUMP MOUNTING DETAIL Drawn By: Author M5.02 M5.02 SCALE: NONE Checked By: Checker Issue Date: 11/01/24 Revit Version: 2023

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IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT; SCALE ACCORDINGLY 3" = 1'-0" **GRAPHIC SCALES:** 1/8" = 1'-0" 1/4" = 1'-0" 1/2" = 1'-0" 3/4" = 1'-0" 1" = 1'-0" 1 1/2" = 1'-0" 1/16" = 1'-0" GENERAL ELECTRICAL NOTES **ELECTRICAL SYMBOL LIST** NOTE: DASHED SYMBOLS ON PLANS DENOTE EXISTING DEVICES 1. ELECTRICAL CONTRACTOR IS TO PROVIDE LABOR, MATERIALS, TRANSPORTATION, EQUIPMENT, RELATED HAND TOOLS, SPECIAL AND OCCASIONAL SERVICES TO CONSTRUCT AND INSTALL THE COMPLETE ELECTRICAL SYSTEM AS SPECIFIED AND SHOWN ON THE PLANS. 20A, 125V, 3W GROUNDING TYPE DUPLEX RECEPTACLE, +18" U.O.N. EXISTING 2. MOUNTING HEIGHTS SHALL BE A MAXIMUM +48" TO TOP OF BOX OR MINIMUM 15" TO BOTTOM OF BOX PER CBC 1142A. ALL MOUNTING HEIGHTS SHALL BE AS SHOWN ON SYMBOL LIST UNLESS OTHERWISE NOTED ON DRAWINGS. 20A, 125V DUPLEX GFI RECEPTACLE, +18" U.O.N. 3. BONDING JUMPERS SHALL BE INSTALLED TO INSURE CONTINUITY WHERE CONDUIT CONNECTIONS AT CONCENTRIC KNOCKOUTS ARE TO SERVE AS A GROUND. ALUMINUM JUNCTION BOX, CEILING OR WALL MOUNTED - SIZED PER CODE 4. PROVIDE GREEN THWN COPPER GROUND WIRE FROM PANELBOARD GROUND BUS TO ALL BRANCH CIRCUITS. ANNUNCIATOR DISCONNECT SWITCH - FUSED AS REQUIRED, WEATHERPROOF FOR 5. THE ELECTRICIAN SHALL CHECK THE TIGHTNESS OF ALL PANELBOARD BUSES AND CIRCUIT BREAKER LUGS. COMPLETELY VACUUM AND CLEAN INTERIOR OF OUTDOORS, SIZED PER MANUFACTURER'S REQUIREMENTS CENTERLINE EQUIPMENT PRIOR TO TURN OVER TO THE OWNER. MOTOR CONNECTION CLASSROOM 6. ALL NEW AND EXISTING PANELBOARDS AND SWITCHBOARDS SHALL BE PROVIDED WITH NEW TYPEWRITTEN DIRECTORIES TO IDENTIFY THE LOCATION OF EACH THERMAL OVERLOAD SWITCH COPPER GROUND FAULT INTERRUPTER 7. ALL EQUIPMENT SHALL BE U.L. LISTED AND INSTALLED AS PER LISTING OR LABELING (I.E. MAX. FUSE SIZES MEAN FUSE PROTECTION REQUIRED). MANUAL MOTOR STARTING SWITCH, HORSE POWER RATED WITH OVERLOADS **GROUND FAULT PROTECTION** 8. CONTRACTOR TO COORDINATE ALL NEW WORK WITH ALL OTHER TRADES FOR A SMOOTH FLOW OF INSTALLATION WORK. EXISTING CONDUIT EMPTY CONDUIT WITH PULL CORD 9. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO ALL WALLS, FLOORS AND CEILINGS INCURRED DURING ELECTRICAL CONSTRUCTION. IF BRANCH CIRCUIT CONDUIT CONCEALED IN WALL OR CEILING DAMAGE OCCURS DURING ELECTRICAL CONSTRUCTION, THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR TO PATCH, PAINT AND REPAIR TO MATCH EXISTING CONDITIONS. PULL BOX BRANCH CIRCUIT CONDUIT CONCEALED UNDER FLOOR OR UNDERGROUND HOMERUN TO PANELBOARD OR OTHER TERMINATION POINT SEE ARCHITECTURAL DRAWINGS 10. COORDINATE EQUIPMENT LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT REQUIRING ELECTRICAL HOOK-UP WITH CONTRACTOR RESPONSIBLE FOR PROVIDING EQUIPMENT AND EQUIPMENT MANUFACTURER DATA SHEETS. SIGNAL TERMINAL CABINET STUB CONDUIT TO ACCESSIBLE SPACE 11. ALL CORRIDOR AND EXTERIOR WALL PENETRATIONS FOR PIPES, CONDUITS, ETC., IN WALLS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. FIRE STOP TELECOMMUNICATIONS MAIN MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE CALIFORNIA STATE FIRE MARSHAL. CONDUIT UP **GROUNDING BUS BAR** 12. ELECTRICAL CONTRACTOR SHALL REVIEW MECHANICAL AND PLUMBING CONTRACT DRAWINGS AND VERIFY ALL MECHANICAL EQUIPMENT LOCATIONS. MOTOR CONDUIT DOWN TELEPHONE TERMINAL BOARD SIZES AND CONTROL WIRING REQUIREMENTS WITH MECHANICAL CONTRACTOR AND MECHANICAL EQUIPMENT SUPPLIERS AND MANUFACTURERS PRIOR TO INSTALLATION OF ELECTRICAL CONNECTIONS. ANY BRANCH CIRCUIT CONDUIT SHALL BE MINIMUM 3/4"C - 2#12, 1#12 WEATHERPROOF GREEN GROUND UNLESS OTHERWISE NOTED. FOR A GREATER NUMBER OF UNDERGROUND 13. ALL CONTROL DEVICES TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA SHALL BE INSTALLED AT A MINIMUM OF 36" C/L, TO A MAXIMUM OF 48" TO TOP OF #12 WIRES: (  $\longrightarrow$  + 3/4"C - 3#12, 1#12G) ETC. FOR WIRE SIZES OTHER THAN #12: (  $\frac{}{}$  = 3#8, 1#12G), (GROUND SIZED PER CEC, IN U.O.N. UNLESS OTHERWISE NOTED CODE SIZE CONDUIT) ETC. #8 14. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND ALTHOUGH THE SIZE AND LOCATIONS OF EQUIPMENT IS SHOWN TO SCALE WHEREVER POSSIBLE, CONTRACTOR VERIFY IN FIELD SHALL MAKE USE OF MANUFACTURER'S OR OWNER'S DATA AVAILABLE AND/OR VERIFY DATA IN THE FIELD FOR PROVIDING AND INSTALLING CORRECT CABLE TRANSFORMER 15. ALL EQUIPMENT MUST BE LISTED, LABELED, OR CERTIFIED BY A NATIONAL RECOGNIZED TESTING LABORATORY (NRTL). FIXTURE TAG - LETTER DENOTES TYPE, NUMBERS INDICATE LAMP QUANTITY AND WATTAGE 16. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL TRADES TO KEEP ELECTRICAL ROOMS EXCLUSIVELY DEDICATED TO PANELBOARDS, SIGNAL AND OTHER ELECTRICAL EQUIPMENT. NO PLUMBING, PIPING OR MECHANICAL DUCTS SHALL RUN OVER ELECTRICAL PANEL OR OTHER ELECTRICAL EQUIPMENT PER C.E.C. NUMBERED ELECTRICAL NOTE MECHANICAL TAG - LETTER DENOTES TYPE, 17. ALL SWITCHES AND RECEPTACLES SHALL BE PROVIDED WITH 'BROTHER' LABELING SYSTEM TO IDENTIFY THE PANEL AND CIRCUIT NUMBER OF EACH OUTLET. COLOR NUMBER DENOTES EQUIPMENT NUMBER TO BE 3/8" HIGH BLACK ON TRANSPARENT TAPE. 18. ALL CABINETS, DISCONNECT SWITCHES, PULLBOXES, AND TERMINAL BOXES SHALL BE PROVIDED WITH LABELING SYSTEM TO IDENTIFY THE PANEL AND ITS USE. SEE SPECIFICATIONS FOR REQUIREMENTS. 19. MAINTAIN "AS-BUILT" RECORDS AT ALL TIMES, SHOWING EXACT LOCATION OF ALL UNDERGROUND AND/OR CONCEALED CONDUITS AND SERVICES INSTALLED UNDER THIS CONTRACT, INCLUDING CIRCUIT IDENTIFICATION WHERE APPLICABLE. PROVIDE OWNER WITH "AS-BUILT" DOCUMENTS AS INDICATED IN THE PROJECT 20. DRAWINGS INDICATE THE LOCATION OF DEVICES, FIXTURES AND EQUIPMENT AND THE CIRCUIT NUMBER AND PANEL DESIGNATION WHICH SUPPLIES THEM. THE CONTRACTOR SHALL VERIFY WITH ARCHITECT/VENDORS AND COORDINATE ALL LOCATIONS PRIOR TO INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETELY CONNECTING ALL ELECTRICAL DEVICES TO CIRCUITS INDICATED ON THE DRAWINGS. 21. ALL EQUIPMENT GROUNDING SHALL CONFORM TO ARTICLE 250 OF THE NATIONAL ELECTRIC CODE, LATEST EDITION. 22. ALL EXTERIOR CONDUIT ABOVE GRADE INCLUDING ALL ROOF MOUNTED CONDUIT, SHALL BE RIGID GALVANIZED STEEL, U.O.N. COAT ALL EXPOSED THREADS WITH GALVANIZING PAINT. 23. ALL CONDUIT SHALL BE CONCEALED, UNLESS OTHERWISE NOTED. 24. ALL UNDERGROUND CONDUIT RUNS SHALL BE SEALED TO PREVENT GAS/MOISTURE ENTERING THE PIPE PER ARTICLE 230-8, 300.5 AND 300.50E. 25. PROVIDE EXPANSION FITTINGS AND/OR CONDUIT FLEX TO CONDUITS PASSING THROUGH STRUCTURAL EXPANSION JOINT SYSTEM. VERIFY/COORDINATE WITH ARCHITECT FOR LOCATION. 26. ALL RACEWAY PASSING THROUGH EXPANSION JOINT AREA SHALL BE PROVIDED WITH EXPANSION JOINT FITTINGS AND/OR FLEX CONDUIT AS REQUIRED. 27. ALL EXTERIOR MOUNTED GFI RECEPTACLE OUTLETS TO BE PROVIDED WITH LOCKABLE COVERS, TAYMAC MX3200. 28. ALL EQUIPMENT/COMPONENTS/DEVICES INSTALLED OUTDOOR SHALL BE U.L. LISTED FOR WET LOCATION. 29. THE CONTRACTOR SHALL VERIFY WITH THE ARCHITECTURAL DRAWINGS ALL LOCATIONS AND DIMENSIONS OF DEVICES/EQUIPMENT PRIOR TO ROUGH-IN. 30. ALL DIVISION 23 EQUIPMENT LOW VOLTAGE CONTROL WIRING SHALL BE PROVIDED AND INSTALLED BY DIVISION 23 U.O.N. PROVIDE CONDUIT WHERE REQUIRED 31. ALL CONDUIT STUB OUTS AND CONDUITS TERMINATING TO A J-BOX, CABINET, AND THE LIKE SHALL BE PROVIDED WITH INSULATED THROAT. BOX OR CABINET COVER SHALL BE LABELED AS TO USE. 32. MEP COMPONENT ANCHORAGE NOTES: ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30. ALL PERMANENT EQUIPMENT AND COMPONENTS. 2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. 'PERMANENTLY ATTACHED' SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING FLEXIBLE CABLE. 3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA. THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTARTE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS: A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT. B. COMPONENTS WEIGHING LESS THAN 20 POUNDS OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL. THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS. PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26. THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G. OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS. MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E): MP☐ MD☐ PP ☐ E ☒ - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

**310 NOVA ALBION WAY** SAN RAFAEL, CA 94903 TEL: 415.492.3200 FAX: 415.492.3229

#\ Revisions Revisions Date

NOT FOR CONSTRUCTION

PROGRESS SET

ISSUE DATE: <u>02/29/2024</u> \_\_ BY:\_\_\_<u>JA</u>\_\_

> 3397 Mt. Diablo Blvd., Suite C Lafayette, CA 94549 Tel: 925.385.0649 24-018

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Architect/Engineer Of Record:

Oakland, CA 94612

510.446.2222 tel | 510.446.2211 fax HY ARCHITECTS JOB NUMBER

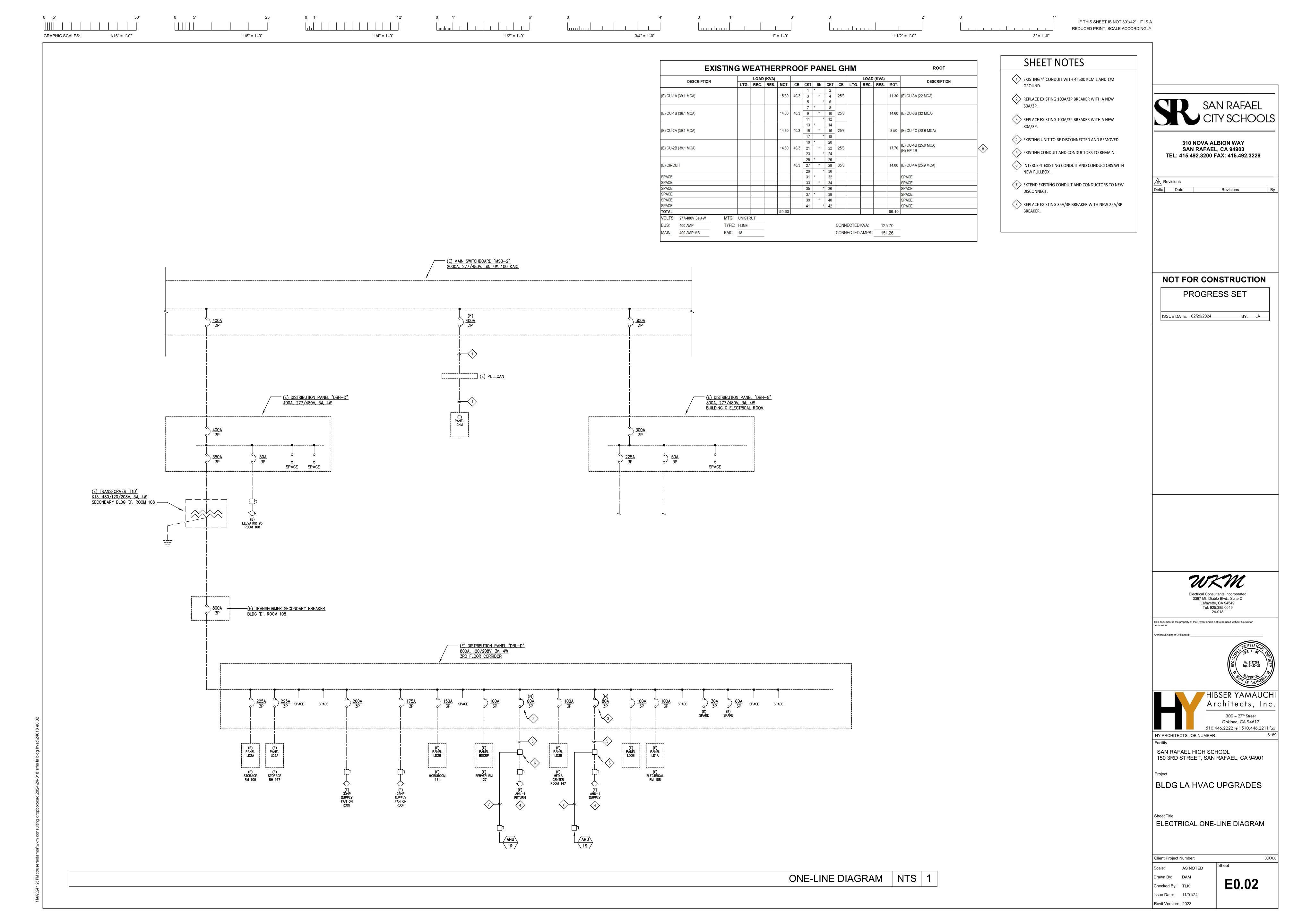
SAN RAFAEL HIGH SCHOOL 150 3RD STREET, SAN RAFAEL, CA 94901

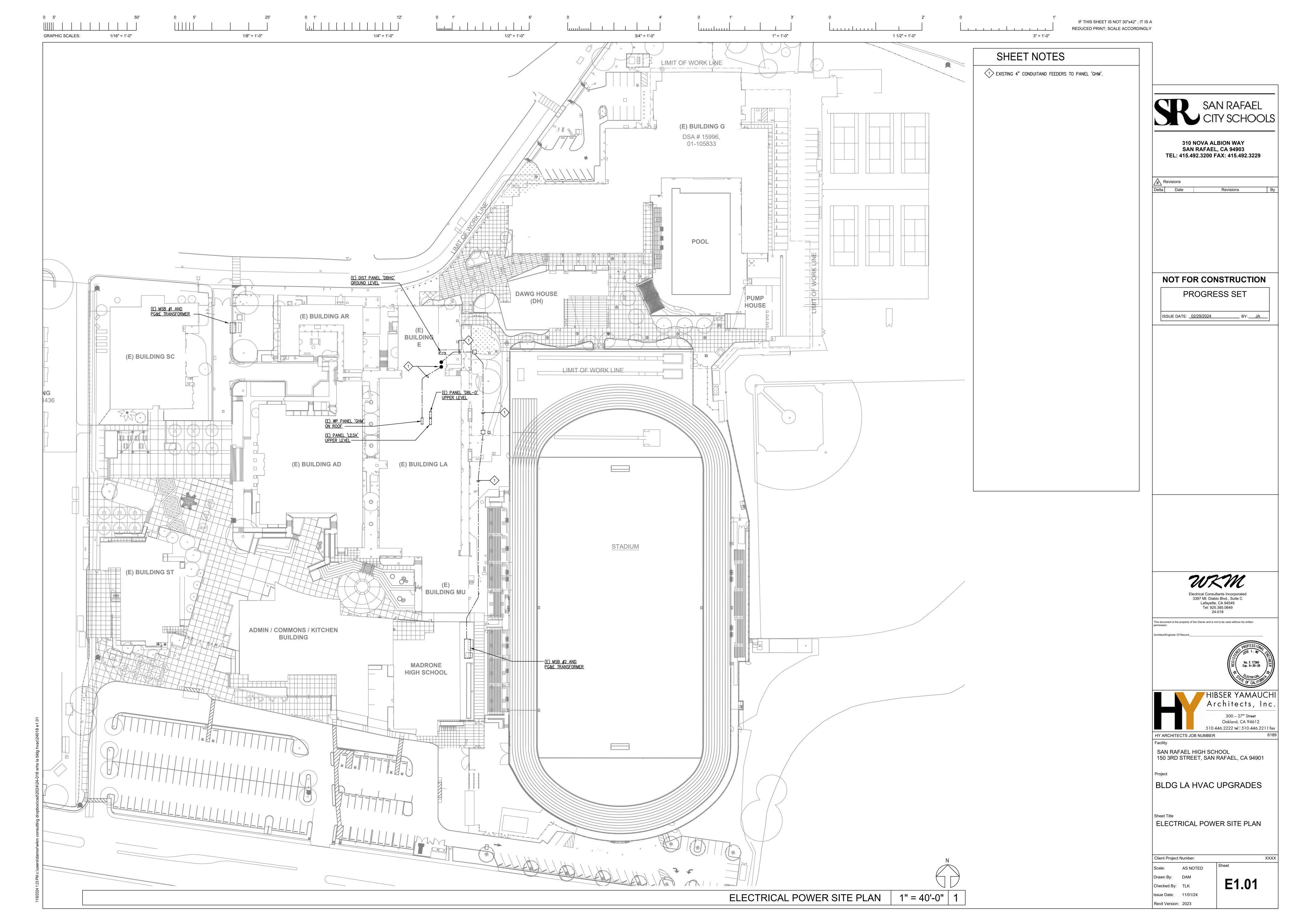
BLDG LA HVAC UPGRADES

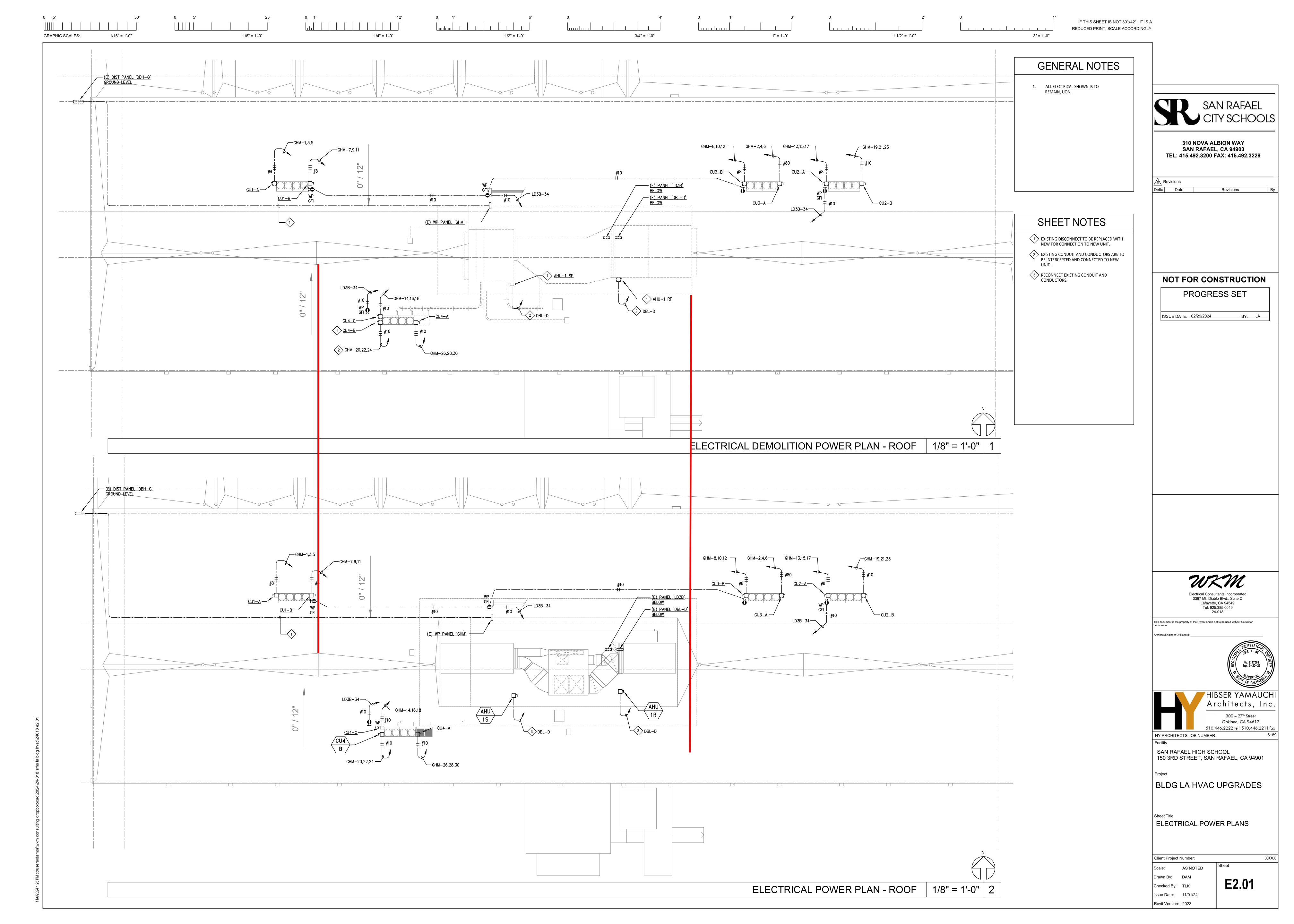
ELECTRICAL SYMBOLS, NOTES AND SCHEDULES

Client Project Number:

E0.01 Checked By: TLK Issue Date: 11/01/24 Revit Version: 2023







IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT SCALE ACCORDINGLY 0 5' GRAPHIC SCALES: 1/16" = 1'-0" 1/8" = 1'-0" 1/4" = 1'-0" 1 1/2" = 1'-0" 3" = 1'-0" 310 NOVA ALBION WAY SAN RAFAEL, CA 94903 TEL: 415.492.3200 FAX: 415.492.3229 # Revisions Revisions NOT FOR CONSTRUCTION PROGRESS SET <u>C9</u> (E) STEEL OPEN WEB TRUSSES @ 36"oc TYP UNO (E) UNIT TO BE REMOVED AND RÉPLACED W/ MECH UNIT 3,500# MAX (E) UNIT TYP EXTEND (E) PAD, HEIGHT TO MATCH (E) (E) STEEL COL BLW EMBEDDED INTO (E) CONC WALL 4x @ 24"oc RAISED PAD FRAMING (E) W8 **ZFA** STRUCTURAL ENGINEERS — (E) 10" CONC WALL BLW TYP (E) CONC PLATFORM 558 brewster avenue | suite 200 redwood city ca 94063 zfa job no. 24552 zfa.com 650.394.8869 (E) UNIT TO BE REMOVED AND TO REMAIN RÉPLACED W/ MECH UNIT (E) W12 copyright © 2024 761# MAX (E) UNIT TO BE REMOVED AND RÉPLACED W/ MECH UNIT 5,000# MAX (E) UNIT AT 3/4" PLYWOOD SHTG This document is the property of the Owner and is not to be used without their written permission PLATFORM TO **REMAIN UNO** — (E) 3" CONC SLAB W/ #3 @ 18"oc TOP (E) WOOD PLATFORM TO REMAIN AND 6x6 W4x4 MESH BOT TYP **ENTIRE ROOF** Davis, CA 95618 (2A) HY Architects Project number: PROJECT ADDRESS (Manage -> Project Information) BLDG LA HVAC UPGRADES ROOF FRAMING PLAN ROOF FRAMING PLAN

1/8" = 1'-0" Client Project Number:

SAN RAFAEL

Architects, Inc 4602 2nd Street, Suite 3 530.758.1270 tel¦530.758.4789 fax

Issue Date: 10/25/24

Revit Version: 2023

**S2.1** 

## **MECHANICAL GENERAL NOTES**

- 1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES, AND INDUSTRY STANDARDS.
- 2. VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS, AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN (E) SYSTEMS AND DRAWINGS.
- 3. COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS, AND WALLS WITH ARCHITECTURAL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
- 4. COORDINATE EXACT SIZE AND ROUTING OF DUCTWORK WITH ARCHITECTURAL PLANS, STRUCTURE, AND EQUIPMENT PRIOR TO
- 5. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES. 6. FURNISH AND INSTALL MANUAL AIR DAMPERS AT ALL DUCT BRANCH TAKEOFFS TO A SINGLE DIFFUSER, GRILLE, OR REGISTER.
- 7. FLEXIBLE DUCTWORK CONNECTIONS TO CEILING DIFFUSERS ARE LIMITED TO 5' MAXIMUM LENGTH.
- 8. ALL DUCTWORK, CEILING DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING, ETC. ARE NEW U.O.N. (SHOWN HEAVY). (E) DUCTWORK, PIPING, ETC. IS SHOWN LIGHT. SEE LEGEND.
- 9. (E) DUCTWORK AND ITEMS TO BE REMOVED ARE SHOWN CROSSED ("X") OUT, SEE LEGEND. COORDINATE CLOSELY WITH (N) DÚCTWORK AND P.O.C.'S SHOWN. ALL OTHER (E) DUCTWORK, ETC. TO REMAIN.
- 10. WHERE INLET DUCT DIAMETER AND DIFFUSER NECK SIZE ARE THE SAME (I.E. 9"ø AND 9x9) CONTRACTOR SHALL OVERSIZE THE SHEET METAL PLENUM TO ACCOMMODATE THE ROUND DUCT CONNECTION.
- 11. THERMOSTATS AND ROOM TEMPERATURE SENSORS SHALL BE INSTALLED AT +46" ABOVE FINISHED FLOOR (TO TOP OF DEVICE). DO NOT INSTALL THERMOSTATS AND ROOM TEMPERATURE SENSORS ABOVE CASEWORK, SHELVING OR OTHER OBSTRUCTIONS OVER 24" IN DEPTH AND 34" IN HEIGHT.

#### MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

- 1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
- 2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
- 3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

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

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

# MEP DISTRIBUTION SYSTEM BRACING NOTE FOR PIPING, DUCTWORK, & ELECTRICAL CONDUIT

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.126.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. THE MEP DESIGN PROFESSIONAL ENGINEER RESPONSIBLE FOR CONTENT ON THESE SHEETS HAS VERIFIED THAT THE DESIGN METHODS IDENTIFIED BELOW ARE IN ACCORDANCE WITH DSA IR 16-13.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E): MP ⋈ MD ⋈ PP ⋈ E □ OPTION 1: PROJECT SPECIFIC DESIGN.

MP □ MD □ PP □ E □ OPTION 2: DESIGN BASED ON OSHPD OPM, WITHIN PROJECT SUBMITTAL.

IN COMPLIANCE WITH THE ENERGY CODE.

MP □ MD □ PP □ E □ OPTION 3: DESIGN BASED ON OSHPD OPM, DEFERRED SUBMITTAL.

# CALIFORNIA ENERGY CODE - ACCEPTANCE TESTING

. 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

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST

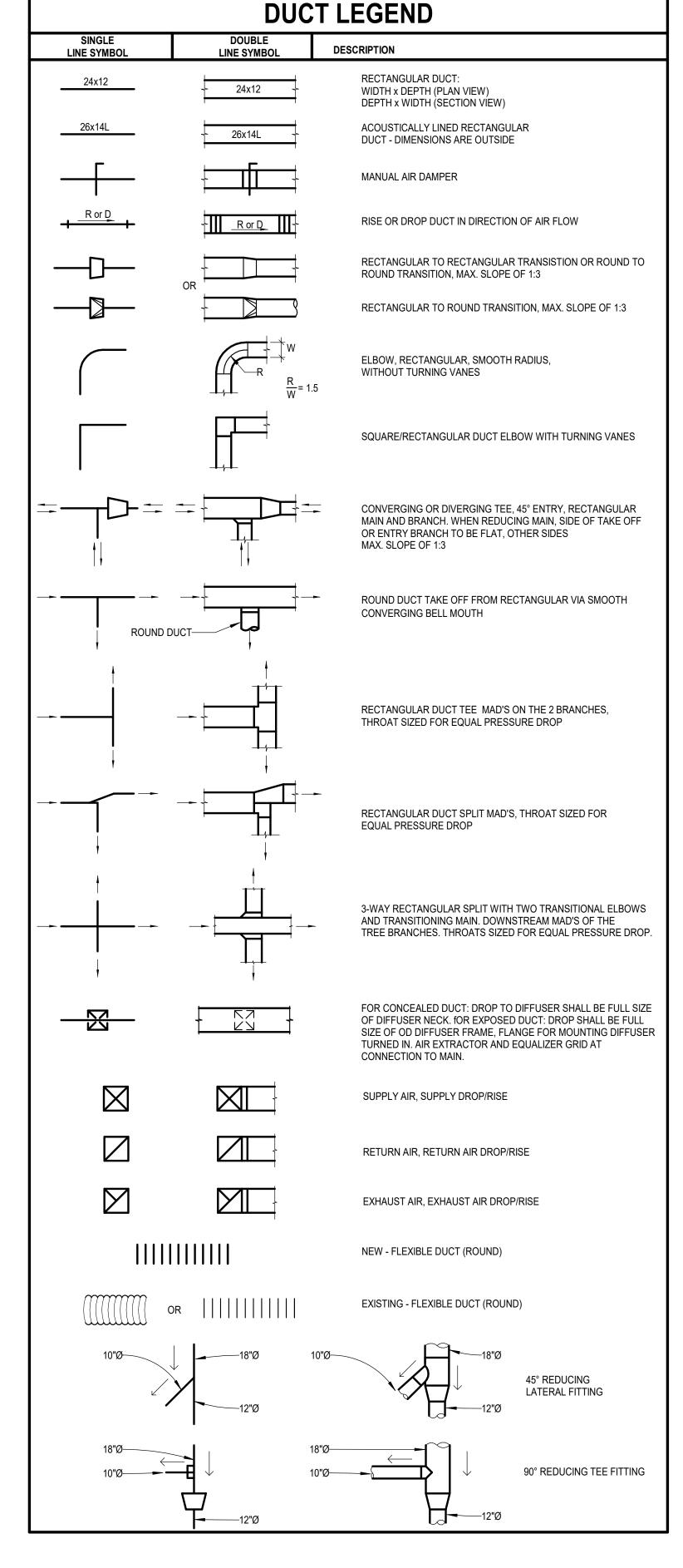
MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR

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-THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

YMBOL	HVAC ABE	SYMBOL	DESCRIPTION
D\C	2230M HOH	O I MIDOL	
ABC ABV	ABOVE CEILING ABOVE	KEF	KITCHEN EXHAUST FAN
ACC DR	ACCESS DOOR	KW	KILOWATTS
ACC P	ACCESS PANEL	LAV	LAVATORY
ACU AFF	AIR CONDITIONING UNIT ABOVE FINISHED FLOOR	LAT LBS	LEAVING AIR TEMPERATURE POUNDS
AHU	AIR HANDLING UNIT	LDS	LOUVERED DOOR
APD	AIR PRESSURE DROP, INCHES WATER COLUMN	LDB	LEAVING DRY BULB
APPROX ARCH	APPROXIMATE ARCHITECTURAL	LPS	LOW PRESSURE STEAM
ATTEN	ATTENUATORS	LRA LTCP	LOCKED ROTOR AMPS  LOCAL TEMPERATURE CONTROL PANEL
ATV	ACOUSTIC TURNING VANE	LVR	LOUVER
		LWB LWT	LEAVING WET BULB LEAVING WATER TEMPERATURE
BD	BALANCE DAMPER		
BDD	BACK DRAFT DAMPER BRAKE HORSE POWER	MAT MAU	MIXED AIR TEMPERATURE  MAKE-UP AIR UNIT
BHP BLDG	BUILDING	MAV	MANUAL AIR VENT
BOD	BOTTOM OF DUCT	MAX	MAXIMUM
BOR BTUH	BOTTOM OF REGISTER BRITISH THERMAL UNITS PER HOUR	MBH MCA	THOUSAND BTUs PER HOUR MINIMUM CIRCUIT AMPACITY
БТОП	BRITISH THERIVIAL UNITS FER HOUR	MCC	MOTOR CONTROL CENTER
		MD	MOTORIZED
CAP CD	CAPACITY CONDENSATE DRAIN	MECH MFR	MECHANICAL MANUFACTURER
CEF	CEILING EXHAUST FAN	MIN	MINIMUM
CFH	CUBIC FEET OF GAS PER HOUR	MOCP	MAXIMUM OVERCURRENT PROTECTION
CHV/	CUBIC FEET OF AIR FLOW PER MINUTE		
CHV CLG	CHECK VALVE CEILING	OA	OUTSIDE AIR
CLR	CLEAR	OAD	OUTSIDE AIR DAMPER
CONC	CONCRETE	OC	ON CENTER
COND	CONDENSER CONNECT/CONNECTION	OD OH	OUTSIDE DIAMETER OVERHEAD
CONT	CONTINUATION	ON	OUTLET VELOCITY
CONTR	CONTRACTOR	D05	DIMBED COMPENSATE -
		PCR PD	PUMPED CONDENSATE RETURN PRESSURE DROP
D	DAMPER	PRV	PRESSURE REDUCING VALVE/
DGP	DATA GATHERING PANEL	DOL/OV (1)	PRESSURE REGULATING VALVE
DIA DL	DIAMETER DOOR LOUVER	PSI (G) (A)	POUNDS PER SQUARE INCH (GAUGE) (ABSOLUTE)
DN	DOWN	RA	RETURN AIR
DSP	DRY STAND PIPE	RAD	RETURN AIR DAMPER
DB	DRY BULB	REF	ROOF EXHAUST FAN
DTR	DOWN THROUGH ROOF	RF	RETURN FAN
DWG	DRAWING	RPM RLA	REVOLUTIONS PER MINUTE RATED LOAD AMPS
EA	EXHAUST AIR	RLA RV	RELIEF VENTILATOR
EAD	EXHAUST AIR DAMPER		
EC	EVAPORATIVE COOLER	S&R	SUPPLY AND RETURN
EDB EER	ENTERING DRY BULB ENERGY EFFICIENCY RATING	SA	SUPPLY AIR
EF	EXHAUST FAN	SAD SB	SEE ARCHITECTURAL DRAWINGS SECURITY BARS
EFF	EFFICIENCY ENGLISHED	SD	SPLITTER DAMPER
EH EL	EXHAUST HOOD ELEVATION	SEER	SEASONAL ENERGY EFFICIENCY RATING
ELEC	ELECTRIC/ELECTRICAL	SF SG	SUPPLY FAN STEAM GENERATOR
ENT	ENTERING	SK	SINK
EQUIP ESP	EQUIPMENT EXTERNAL STATIC PRESSURE	SM	SHEET METAL
EVAP	EVAPORATOR	SOV SP	SHUT OFF VALVE STATIC PRESSURE
EW	ENTERING WATER	SPD	STATIC PRESSURE DROP
EWB EWC	ENTERING WET BULB ELECTRIC WATER COOLER	SQ FT	SQUARE FEET
EWT	ENTERING WATER TEMPERATURE	SQ IN SS	SQUARE INCHES STAINLESS STEEL
EXH	EXHAUST	STR	STRAINER
EXT f	EXPANSION TANK  CUBIC FEET OF AIR FLOW PER MINUTE	STRUC	STRUCTURAL
F	DEGREES FAHRENHEIT		
FA	FROM ABOVE	T TA	THERMOSTAT TO ABOVE
FB FC	FROM BELOW FLEXIBLE CONNECTION	TA TB	TO ABOVE TO BELOW
FCV FCV	FLOW CONTROL VALVE	T.C.C.	TEMPERATURE CONTROL CONTRACTOR
FD	FIRE DAMPER	TCP	TEMPERATURE CONTROL VALVE
FF EIN	FLY FAN	TCV TEMP	TEMPERATURE CONTROL VALVE TEMPERATURE
FIN FLA	FINISH FULL LOAD AMPS	TFH	THERMAL FLUID HEATER
FLR	FLOOR	THK	THICK
FPM ESD	FEET PER MINUTE	TP TS	TOTAL PRESSURE TEMPERATURE SENSOR
FSD FT (')	FIRE AND SMOKE DAMPER FOOT OR FEET	TSP	TOTAL STATIC PRESSURE
FT 2	SQUARE FEET	TYP	TYPICAL
FV	FACE VELOCITY	UCD	UNDERCUT DOOR
		UF	UNDERFLOOR
GA	GAUGE	UG	UNDERGROUND
GALV GI	GALVANIZED GALVANIZED IRON	UON	UNLESS OTHERWISE NOTED
GPH	GALLONS PER HOUR	UTR	UP THROUGH ROOF
GPM	GALLONS PER MINUTE	V (VTR)	VENT (VENT THROUGH ROOF)
		VAC	VACUUM
HC	HEATING COIL	VD VE	VOLUME DAMPER
HDG	HEAVY DUTY GRILLE	VF VFC	VENTILATION FAN  VARIABLE FREQUENCY CONTROLLER
HP HPS	HORSE POWER HIGH PRESSURE STEAM	VLV	VALVE VALVE
HTG	HEATING	VRF	VARIABLE REFRIGERANT FLOW
HV	HAND VALVE	VSD VV	VARIABLE SPEED DRIVE VARIABLE AIR VOLUME CONTROLLER
HW HWR	HOT WATER HOT WATER RETURN	VV VVRH	VARIABLE AIR VOLUME CONTROLLER  VARIABLE AIR VOLUME CONTROLLER WITH REHEA
HWS	HOT WATER RETURN HOT WATER SUPPLY		
		W	WATTS
ICF	INSTANTENEOUS CURRENT FLOW	WALL MTD (R) WB	WALL MOUNTED (RECESSED) WET BULB
ΙE	INVERT ELEVATION	WC	WATER CLOSET
IN, (")	INCH SOLIABE INCHES	WMS	WIRE MESH SCREEN
IN <sup>2</sup>	SQUARE INCHES	WP WPD	WORKING PRESSURE WATER PRESSURE DROP FEET OF WATER COLUM
		v v = 1 /	WATER I DESCURE DRUP FEET OF WATER COLUN



MECHANICAL SHEET LIST

MECHANICAL LEGEND AND NOTES

M2.01 MECHANICAL FLOOR PLAN - FIRST LEVEL M2.02 MECHANICAL FLOOR PLAN - SECOND LEVEL

M2.03 MECHANICAL FLOOR PLAN - THIRD LEVEL

M2.04D MECHANICAL DEMOLITION ROOF PLAN

M6.01 MECHANICAL CONTROL DIAGRAMS
M7.01 MECHANICAL TITLE 24 DOCUMENTATION

M0.02 MECHANICAL SCHEDULES

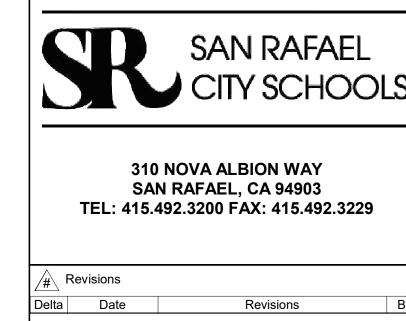
M2.04 MECHANICAL ROOF PLAN

M5.01 MECHANICAL DETAILS M5.02 MECHANICAL DETAILS

Sheet Name

Number

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**DEVELOPMENT** 

RC - CS/EG

PM - DESIGN TEAM PROJECT NO

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Architects, Inc 510.446.2222 tel | 510.446.2211 fax

HY Architects Project number:

SAN RAFAEL HIGH SCHOOL 150 3RD STREET, SAN RAFAEL, CA 94901

BLDG LA HVAC UPGRADES

MECHANICAL LEGEND AND

Client Project Number: 1" = 1'-0" Drawn By: Author Checked By: Checker Issue Date: 11/01/24 Revit Version: 2023

																,					<b>.</b>																		
					FILTE	ERS			HEAT RE	COVERY CO	OIL		ELEC HEAT	ΓER							DX COIL								FAN				ELECT	RICAL	OPER. WT.				
UNIT	LOCATION SERVED	"DAIKIN" MODEL	CFM							FH FI	FACE	APD					FH	FI on	FACE	APD SE	ENS.	TOTAL OOLING C	CLG. CLG.	CLG.	TOTAL HEATING HI	TG. HT	G.								(LBS.)	MOUI DE		CONTROL DIAGRAM	NOTES
	SERVED	MODEL		EFFICIENCY	MAX FACE VEL. FPM	SIZE (QTY.)	DEPTH	FLUID QT	Y. ROWS	(IN.) (IN	· VEL. ·) FPM	(IN. VOL WG)	7PH KW	FLA	FLUID QT	Y. ROWS	FPI (IN.)	(IN.)	FPM	(IN. COC WG) C	AP.	OOLING CAP. (MBH)	EDB EWB	CLG. LDB (°F)	HEATING EI CAP. (°	DB LD F) (°F	B QTY. H	Р ВНР	CFM (II	P TSP F I. (IN. F G.) W.G.)	FAN M. RPM R	AX. PM VOLT/	/PH M	MCA MOCP	JNIT ROOF CURB T	OTAL			
															CKT A 1	4	6 22	73 5,640	505	0.29		144.1 9	96.0 71.0	74.0	138.0 50	0.0 70.													
AHU 1S	BUILDING LA	OAH039GVCM	18,830	MERV 13	370	24x24 (15)	4	R410A 2	10	36 73	520	1.0 48	/3 71.6	86.4	CKT B 1	4	6 22	73 5,640	505	0.29		144.1 9	96.0 71.0	74.0	138.0 50	0.0 70.		.6 4.95 A. EA.		0 4.44 2	2,410 2, FA. F	600 A. 208/	/3 6	87.2 80 4	4,615 420	5,035 M	$\frac{4}{5.02}$	$\left(\frac{3}{M6.01}\right)$	1 2 3
															CKT C 1	4	6 22	73 7,520	530	0.32		168.0 9	96.0 71.0	74.0	145.7 50	0.0 70.												M6.01	
AHU 1R	BUILDING LA	OAH039GVCM	17,750	MERV 13	370	24x24 (15)	4	R410A 2	10	36 73	490	1.0 N	A N/A	N/A	N/A N/	A N/A	N/A N/A	N/A N/A	N/A	N/A N	N/A	N/A	N/A N/A	N/A	N/A N	I/A N/	A 3 6	.6 4.65 A. EA.	5,917 EA.	5 2.89 2	2,390 2, EA. E	600 A. 208/	/3 5	51.4 60	3,465 340	3,805 MS	5.02	4 M6.01	1 3

0 5'

- 1) UNITS SELECTED AT 96 F DB / 71 F WB SUMMER AMBIENT, 30 F DB WINTER AMBIENT AIR TEMPERATURES. COOLING CAPACITIES SCHEDULED ARE NET SENSIBLE & NET TOTAL CAPACITIES.
- 2 PROVIDE SEPARATE 480V/3PH POWER CONNECTION FOR ELECTRIC HEATER, 208V/3PH CONNECTION FOR FANS.
- (3) HEAT RECOVERY COIL SHALL HAVE SHUTDOWN CAPABILITY FOR ECONOMIZER OPERATION, BY BMS.

	HEAT PUMP UNIT SCHEDULE													
LINUT	LOCATION	"DAIKIN" MODEL	COOL	HEAT	ELECT	RICAL DAT	A	EER	COD	OPER. WT.	MOUNTING	CONTROL	NOTES	
UNIT	LOCATION	NO.	(BTUH)	(BTUH)	VOLT/PH	MCA	MOCP	(IEER)	COP	(LBS.)	DETAIL	DIAGRAM	NOTES	
HP 4B	ROOF	RXYQ144AAYDB	144,000	162,000	460/3	21.3	25	11.0 (21.8)	3.3	765	1 M5.02	2 M6.01	1	

### NOTES:

#### 1 R410 REFRIGERANT.

- (2) COOLING CAPACITY RATED AT 80 DEG. F DB / 67 DEG. F WB INDOOR AIR AND 95 DEG. F DB OUTDOOR AIR.
- 3 HEATING CAPACITY IS RATED AT 70 DEG. F DB / 60 DEG. F WB INDOOR AIR AND 47 DEG. F DB OUTDOOR AIR.



**310 NOVA ALBION WAY** SAN RAFAEL, CA 94903 TEL: 415.492.3200 FAX: 415.492.3229

# Revisions Revisions

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HY Architects Project number:

SAN RAFAEL HIGH SCHOOL 150 3RD STREET, SAN RAFAEL, CA 94901

BLDG LA HVAC UPGRADES

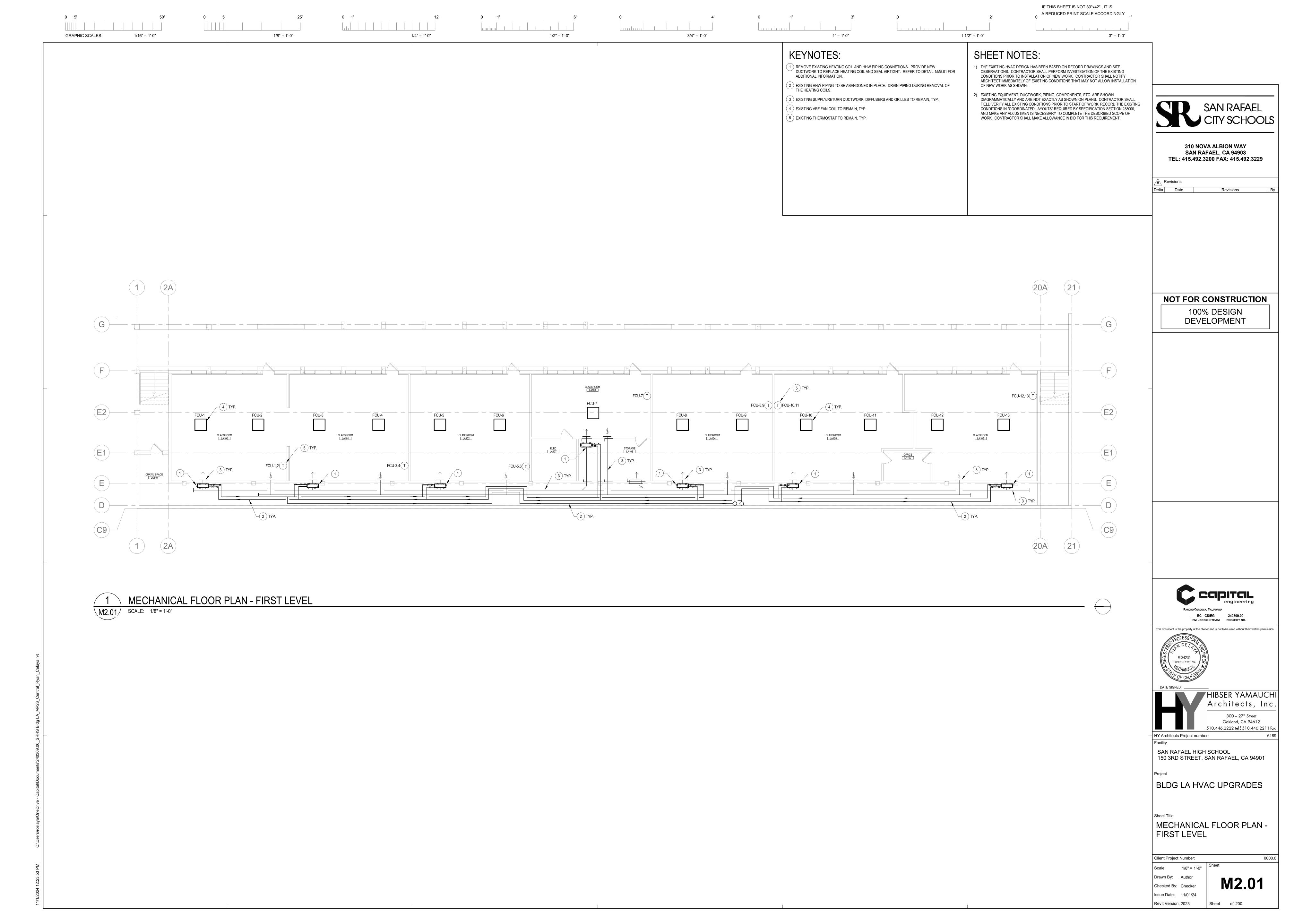
MECHANICAL SCHEDULES

Client Project Number:

Scale: 12" = 1'-0" Sheet Drawn By: Author Checked By: Checker Issue Date: 11/01/24

Revit Version: 2023

M0.02



A REDUCED PRINT SCALE ACCORDINGLY 0 5' **GRAPHIC SCALES:** 1/16" = 1'-0" 1/8" = 1'-0" 1/4" = 1'-0" 1 1/2" = 1'-0" 3" = 1'-0" **KEYNOTES:** SHEET NOTES: REMOVE EXISTING HEATING COIL AND HHW PIPING CONNETIONS. PROVIDE NEW DUCTWORK TO REPLACE HEATING COIL AND SEAL AIRTIGHT. REFER TO DETAIL 1/M5.01 FOR ADDITIONAL INFORMATION. ) THE EXISTING HVAC DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF THE EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION 2 EXISTING HHW PIPING TO BE ABANDONED IN PLACE. DRAIN PIPING DURING REMOVAL OF OF NEW WORK AS SHOWN. ) EXISTING EQUIPMENT, DUCTWORK, PIPING, COMPONENTS, ETC. ARE SHOWN (3) EXISTING SUPPLY/RETURN DUCTWORK, DIFFUSERS AND GRILLES TO REMAIN, TYP. DIAGRAMMATICALLY AND ARE NOT EXACTLY AS SHOWN ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK, RECORD THE EXISTING (4) EXISTING VRF FAN COIL TO REMAIN, TYP. CONDITIONS IN "COORDINATED LAYOUTS" REQUIRED BY SPECIFICATION SECTION 238000, AND MAKE ANY ADJUSTMENTS NECESSARY TO COMPLETE THE DESCRIBED SCOPE OF (5) EXISTING THERMOSTAT TO REMAIN, TYP. WORK. CONTRACTOR SHALL MAKE ALLOWANCE IN BID FOR THIS REQUIREMENT. **310 NOVA ALBION WAY** SAN RAFAEL, CA 94903 TEL: 415.492.3200 FAX: 415.492.3229 /#\ Revisions Delta Date Revisions (2A) NOT FOR CONSTRUCTION 100% DESIGN **DEVELOPMENT** (G) FCU-16,17 T T FCU-18,19 PM - DESIGN TEAM PROJECT NO. This document is the property of the Owner and is not to be used without their written permission FCU-28,29 (T) T) FCU-26,27 T)FCU-24,25 (T)FCU-30,31 HIBSER YAMAUCHI Architects, Inc 510.446.2222 tel ¦ 510.446.2211 fax HY Architects Project number: SAN RAFAEL HIGH SCHOOL 150 3RD STREET, SAN RAFAEL, CA 94901 BLDG LA HVAC UPGRADES 20A 2A MECHANICAL FLOOR PLAN -SECOND LEVEL MECHANICAL FLOOR PLAN - SECOND LEVEL M2.02 | SCALE: 1/8" = 1'-0" Client Project Number: Drawn By: Author M2.02 Checked By: Checker Issue Date: 11/01/24 Revit Version: 2023

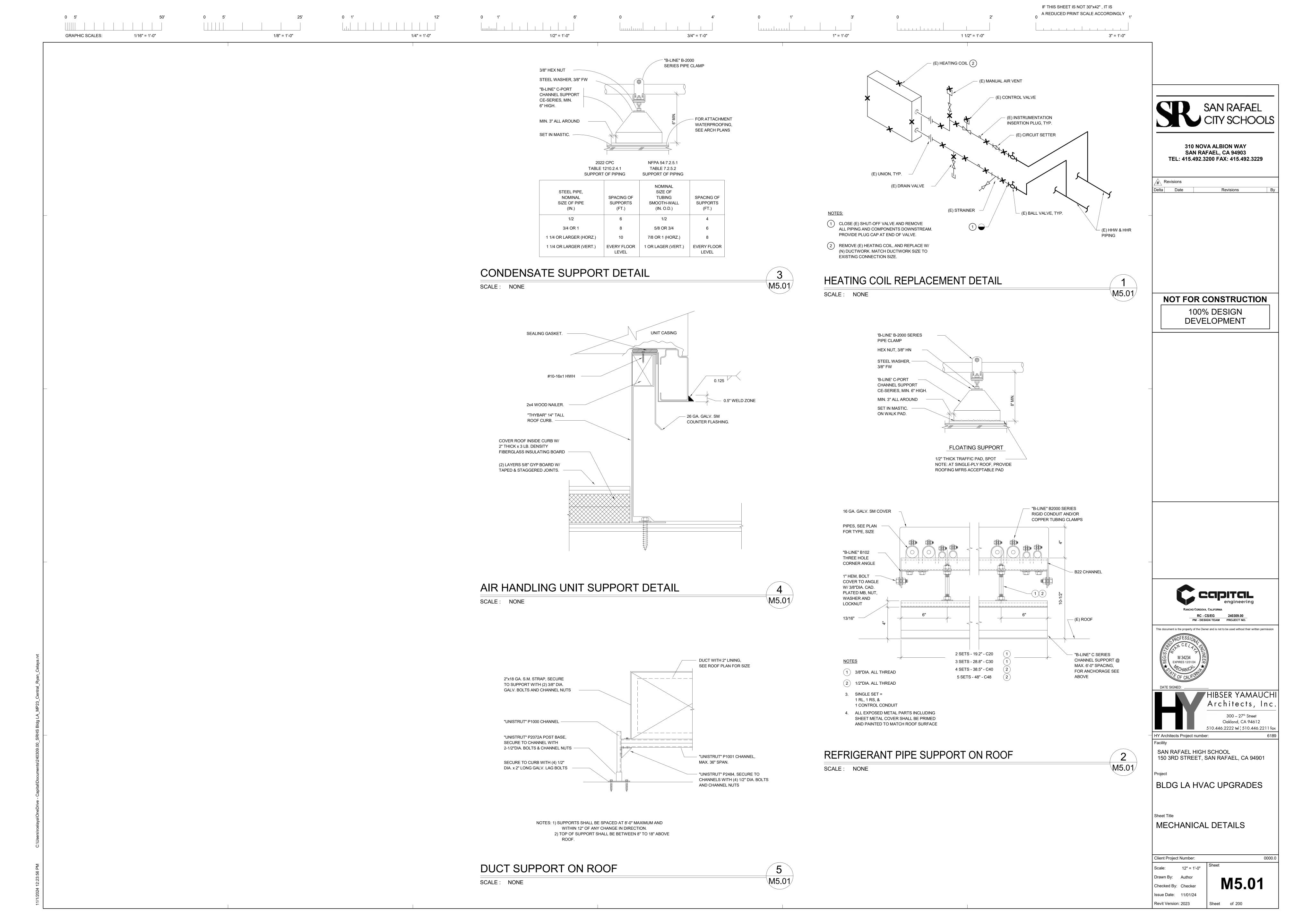
A REDUCED PRINT SCALE ACCORDINGLY 0 5' GRAPHIC SCALES: 1/16" = 1'-0" 1/8" = 1'-0" 1/4" = 1'-0" 1 1/2" = 1'-0" 3" = 1'-0" **KEYNOTES:** SHEET NOTES: ) THE EXISTING HVAC DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE REMOVE EXISTING HEATING COIL AND HHW PIPING CONNETIONS. PROVIDE NEW DUCTWORK TO REPLACE HEATING COIL AND SEAL AIRTIGHT. REFER TO DETAIL 1/M5.01 FOR OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF THE EXISTING ADDITIONAL INFORMATION. CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION 2 ) EXISTING HHW PIPING TO BE ABANDONED IN PLACE. DRAIN PIPING DURING REMOVAL OF OF NEW WORK AS SHOWN. THE HEATING COILS. ) EXISTING EQUIPMENT, DUCTWORK, PIPING, COMPONENTS, ETC. ARE SHOWN (3) EXISTING SUPPLY/RETURN DUCTWORK, DIFFUSERS AND GRILLES TO REMAIN, TYP. DIAGRAMMATICALLY AND ARE NOT EXACTLY AS SHOWN ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK, RECORD THE EXISTING (4) EXISTING VRF FAN COIL TO REMAIN, TYP. CONDITIONS IN "COORDINATED LAYOUTS" REQUIRED BY SPECIFICATION SECTION 238000, AND MAKE ANY ADJUSTMENTS NECESSARY TO COMPLETE THE DESCRIBED SCOPE OF (5) EXISTING THERMOSTAT TO REMAIN, TYP. WORK. CONTRACTOR SHALL MAKE ALLOWANCE IN BID FOR THIS REQUIREMENT. 310 NOVA ALBION WAY SAN RAFAEL, CA 94903 TEL: 415.492.3200 FAX: 415.492.3229 /#\ Revisions Delta Date Revisions NOT FOR CONSTRUCTION 100% DESIGN **DEVELOPMENT** (D) CLASSROOM 157 CLASSROOM 156 PM - DESIGN TEAM PROJECT NO. This document is the property of the Owner and is not to be used without their written permission Architects, Inc 510.446.2222 tel¦510.446.2211 fax HY Architects Project number: STORAGE 169 SAN RAFAEL HIGH SCHOOL 150 3RD STREET, SAN RAFAEL, CA 94901 **EQUIPMENT** BLDG LA HVAC UPGRADES MECHANICAL FLOOR PLAN -THIRD LEVEL Client Project Number: MECHANICAL FLOOR PLAN - THIRD LEVEL M2.03 SCALE: 1/8" = 1'-0" M2.03 Checked By: Checker Issue Date: 11/01/24

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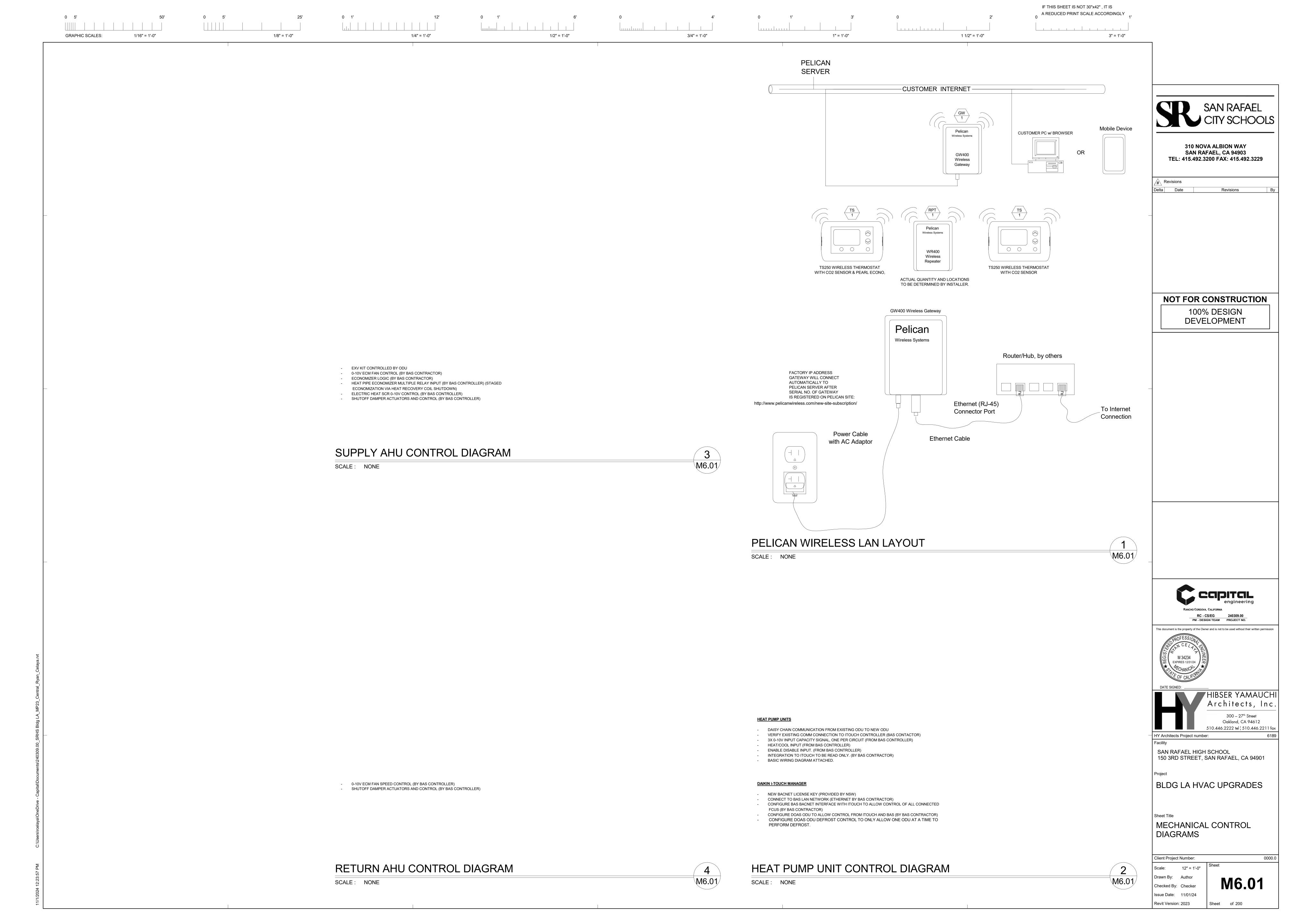
A REDUCED PRINT SCALE ACCORDINGLY 0 5' GRAPHIC SCALES: 1/16" = 1'-0" 1/4" = 1'-0" 1 1/2" = 1'-0" 1/8" = 1'-0" 3" = 1'-0" **KEYNOTES:** SHEET NOTES: 1) THE EXISTING HVAC DESIGN HAS BEEN BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL PERFORM INVESTIGATION OF THE EXISTING CONDITIONS PRIOR TO INSTALLATION OF NEW WORK. CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT MAY NOT ALLOW INSTALLATION OF NEW WORK AS SHOWN. 2) EXISTING EQUIPMENT, DUCTWORK, PIPING, COMPONENTS, ETC. ARE SHOWN DIAGRAMMATICALLY AND ARE NOT EXACTLY AS SHOWN ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK, RECORD THE EXISTING CONDITIONS IN "COORDINATED LAYOUTS" REQUIRED BY SPECIFICATION SECTION 238000, AND MAKE ANY ADJUSTMENTS NECESSARY TO COMPLETE THE DESCRIBED SCOPE OF WORK. CONTRACTOR SHALL MAKE ALLOWANCE IN BID FOR THIS REQUIREMENT. **310 NOVA ALBION WAY** SAN RAFAEL, CA 94903 TEL: 415.492.3200 FAX: 415.492.3229 /# Revisions Delta Date Revisions NOT FOR CONSTRUCTION 100% DESIGN DEVELOPMENT HEAT RECOVERY REFRIGERANT PIPING, MOUNTED ON ROOF — This document is the property of the Owner and is not to be used without their written permission (E) ROOF DRAIN — 510.446.2222 tel¦510.446.2211 fax HY Architects Project number: SAN RAFAEL HIGH SCHOOL 150 3RD STREET, SAN RAFAEL, CA 94901 BLDG LA HVAC UPGRADES MECHANICAL ROOF PLAN Client Project Number: MECHANICAL ROOF PLAN M2.04 | SCALE: 1/8" = 1'-0" M2.04 Checked By: Checker Issue Date: 11/01/24 Revit Version: 2023



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 BE CENTERED TO
 EQUIPMENT FRAME GC
 TO FIELD VERIFY VIBRATION PAD S.M.D (6) PER SECTION BLDG LA HVAC UPGRADES SLEEPER FOR 2 UNITS \_ 6X8 SHAPED P.T. SLEEPER W/ ½"□ COUNTERSUME THROUGH BOLT THROUGH (E) 3" CONCRETE OVER " FORMDECK \_ (E) 20" OPENWEB STEEL  $\angle \frac{1}{4}$ "X3"X3" 2'-6 1/4" LONG TYP – (E) 20" OPENWEB STEEL BAR JOIST @ 36" O.C. VIF NOTE: ALL FASTENERS AND METAL PLATES SHALL BE HOT-DIPPED GALVANIZED MECHANICAL DETAILS FRONT/BACK ELEVATION SECTION A-A Client Project Number: VRF HEAT PUMP MOUNTING DETAIL Drawn By: Author M5.02 M5.02 SCALE: NONE Checked By: Checker Issue Date: 11/01/24 Revit Version: 2023

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IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT; SCALE ACCORDINGLY 3" = 1'-0" **GRAPHIC SCALES:** 1/8" = 1'-0" 1/4" = 1'-0" 1/2" = 1'-0" 3/4" = 1'-0" 1" = 1'-0" 1 1/2" = 1'-0" 1/16" = 1'-0" GENERAL ELECTRICAL NOTES **ELECTRICAL SYMBOL LIST** NOTE: DASHED SYMBOLS ON PLANS DENOTE EXISTING DEVICES 1. ELECTRICAL CONTRACTOR IS TO PROVIDE LABOR, MATERIALS, TRANSPORTATION, EQUIPMENT, RELATED HAND TOOLS, SPECIAL AND OCCASIONAL SERVICES TO CONSTRUCT AND INSTALL THE COMPLETE ELECTRICAL SYSTEM AS SPECIFIED AND SHOWN ON THE PLANS. 20A, 125V, 3W GROUNDING TYPE DUPLEX RECEPTACLE, +18" U.O.N. EXISTING 2. MOUNTING HEIGHTS SHALL BE A MAXIMUM +48" TO TOP OF BOX OR MINIMUM 15" TO BOTTOM OF BOX PER CBC 1142A. ALL MOUNTING HEIGHTS SHALL BE AS SHOWN ON SYMBOL LIST UNLESS OTHERWISE NOTED ON DRAWINGS. 20A, 125V DUPLEX GFI RECEPTACLE, +18" U.O.N. 3. BONDING JUMPERS SHALL BE INSTALLED TO INSURE CONTINUITY WHERE CONDUIT CONNECTIONS AT CONCENTRIC KNOCKOUTS ARE TO SERVE AS A GROUND. ALUMINUM JUNCTION BOX, CEILING OR WALL MOUNTED - SIZED PER CODE 4. PROVIDE GREEN THWN COPPER GROUND WIRE FROM PANELBOARD GROUND BUS TO ALL BRANCH CIRCUITS. ANNUNCIATOR DISCONNECT SWITCH - FUSED AS REQUIRED, WEATHERPROOF FOR 5. THE ELECTRICIAN SHALL CHECK THE TIGHTNESS OF ALL PANELBOARD BUSES AND CIRCUIT BREAKER LUGS. COMPLETELY VACUUM AND CLEAN INTERIOR OF OUTDOORS, SIZED PER MANUFACTURER'S REQUIREMENTS CENTERLINE EQUIPMENT PRIOR TO TURN OVER TO THE OWNER. MOTOR CONNECTION CLASSROOM 6. ALL NEW AND EXISTING PANELBOARDS AND SWITCHBOARDS SHALL BE PROVIDED WITH NEW TYPEWRITTEN DIRECTORIES TO IDENTIFY THE LOCATION OF EACH THERMAL OVERLOAD SWITCH COPPER GROUND FAULT INTERRUPTER 7. ALL EQUIPMENT SHALL BE U.L. LISTED AND INSTALLED AS PER LISTING OR LABELING (I.E. MAX. FUSE SIZES MEAN FUSE PROTECTION REQUIRED). MANUAL MOTOR STARTING SWITCH, HORSE POWER RATED WITH OVERLOADS **GROUND FAULT PROTECTION** 8. CONTRACTOR TO COORDINATE ALL NEW WORK WITH ALL OTHER TRADES FOR A SMOOTH FLOW OF INSTALLATION WORK. EXISTING CONDUIT EMPTY CONDUIT WITH PULL CORD 9. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO ALL WALLS, FLOORS AND CEILINGS INCURRED DURING ELECTRICAL CONSTRUCTION. IF BRANCH CIRCUIT CONDUIT CONCEALED IN WALL OR CEILING DAMAGE OCCURS DURING ELECTRICAL CONSTRUCTION, THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR TO PATCH, PAINT AND REPAIR TO MATCH EXISTING CONDITIONS. PULL BOX BRANCH CIRCUIT CONDUIT CONCEALED UNDER FLOOR OR UNDERGROUND HOMERUN TO PANELBOARD OR OTHER TERMINATION POINT SEE ARCHITECTURAL DRAWINGS 10. COORDINATE EQUIPMENT LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT REQUIRING ELECTRICAL HOOK-UP WITH CONTRACTOR RESPONSIBLE FOR PROVIDING EQUIPMENT AND EQUIPMENT MANUFACTURER DATA SHEETS. SIGNAL TERMINAL CABINET STUB CONDUIT TO ACCESSIBLE SPACE 11. ALL CORRIDOR AND EXTERIOR WALL PENETRATIONS FOR PIPES, CONDUITS, ETC., IN WALLS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. FIRE STOP TELECOMMUNICATIONS MAIN MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE CALIFORNIA STATE FIRE MARSHAL. CONDUIT UP **GROUNDING BUS BAR** 12. ELECTRICAL CONTRACTOR SHALL REVIEW MECHANICAL AND PLUMBING CONTRACT DRAWINGS AND VERIFY ALL MECHANICAL EQUIPMENT LOCATIONS. MOTOR CONDUIT DOWN TELEPHONE TERMINAL BOARD SIZES AND CONTROL WIRING REQUIREMENTS WITH MECHANICAL CONTRACTOR AND MECHANICAL EQUIPMENT SUPPLIERS AND MANUFACTURERS PRIOR TO INSTALLATION OF ELECTRICAL CONNECTIONS. ANY BRANCH CIRCUIT CONDUIT SHALL BE MINIMUM 3/4"C - 2#12, 1#12 WEATHERPROOF GREEN GROUND UNLESS OTHERWISE NOTED. FOR A GREATER NUMBER OF UNDERGROUND 13. ALL CONTROL DEVICES TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA SHALL BE INSTALLED AT A MINIMUM OF 36" C/L, TO A MAXIMUM OF 48" TO TOP OF #12 WIRES: (  $\longrightarrow$  + 3/4"C - 3#12, 1#12G) ETC. FOR WIRE SIZES OTHER THAN #12: (  $\frac{}{}$  = 3#8, 1#12G), (GROUND SIZED PER CEC, IN U.O.N. UNLESS OTHERWISE NOTED CODE SIZE CONDUIT) ETC. #8 14. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND ALTHOUGH THE SIZE AND LOCATIONS OF EQUIPMENT IS SHOWN TO SCALE WHEREVER POSSIBLE, CONTRACTOR VERIFY IN FIELD SHALL MAKE USE OF MANUFACTURER'S OR OWNER'S DATA AVAILABLE AND/OR VERIFY DATA IN THE FIELD FOR PROVIDING AND INSTALLING CORRECT CABLE TRANSFORMER 15. ALL EQUIPMENT MUST BE LISTED, LABELED, OR CERTIFIED BY A NATIONAL RECOGNIZED TESTING LABORATORY (NRTL). FIXTURE TAG - LETTER DENOTES TYPE, NUMBERS INDICATE LAMP QUANTITY AND WATTAGE 16. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL TRADES TO KEEP ELECTRICAL ROOMS EXCLUSIVELY DEDICATED TO PANELBOARDS, SIGNAL AND OTHER ELECTRICAL EQUIPMENT. NO PLUMBING, PIPING OR MECHANICAL DUCTS SHALL RUN OVER ELECTRICAL PANEL OR OTHER ELECTRICAL EQUIPMENT PER C.E.C. NUMBERED ELECTRICAL NOTE MECHANICAL TAG - LETTER DENOTES TYPE, 17. ALL SWITCHES AND RECEPTACLES SHALL BE PROVIDED WITH 'BROTHER' LABELING SYSTEM TO IDENTIFY THE PANEL AND CIRCUIT NUMBER OF EACH OUTLET. COLOR NUMBER DENOTES EQUIPMENT NUMBER TO BE 3/8" HIGH BLACK ON TRANSPARENT TAPE. 18. ALL CABINETS, DISCONNECT SWITCHES, PULLBOXES, AND TERMINAL BOXES SHALL BE PROVIDED WITH LABELING SYSTEM TO IDENTIFY THE PANEL AND ITS USE. SEE SPECIFICATIONS FOR REQUIREMENTS. 19. MAINTAIN "AS-BUILT" RECORDS AT ALL TIMES, SHOWING EXACT LOCATION OF ALL UNDERGROUND AND/OR CONCEALED CONDUITS AND SERVICES INSTALLED UNDER THIS CONTRACT, INCLUDING CIRCUIT IDENTIFICATION WHERE APPLICABLE. PROVIDE OWNER WITH "AS-BUILT" DOCUMENTS AS INDICATED IN THE PROJECT 20. DRAWINGS INDICATE THE LOCATION OF DEVICES, FIXTURES AND EQUIPMENT AND THE CIRCUIT NUMBER AND PANEL DESIGNATION WHICH SUPPLIES THEM. THE CONTRACTOR SHALL VERIFY WITH ARCHITECT/VENDORS AND COORDINATE ALL LOCATIONS PRIOR TO INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETELY CONNECTING ALL ELECTRICAL DEVICES TO CIRCUITS INDICATED ON THE DRAWINGS. 21. ALL EQUIPMENT GROUNDING SHALL CONFORM TO ARTICLE 250 OF THE NATIONAL ELECTRIC CODE, LATEST EDITION. 22. ALL EXTERIOR CONDUIT ABOVE GRADE INCLUDING ALL ROOF MOUNTED CONDUIT, SHALL BE RIGID GALVANIZED STEEL, U.O.N. COAT ALL EXPOSED THREADS WITH GALVANIZING PAINT. 23. ALL CONDUIT SHALL BE CONCEALED, UNLESS OTHERWISE NOTED. 24. ALL UNDERGROUND CONDUIT RUNS SHALL BE SEALED TO PREVENT GAS/MOISTURE ENTERING THE PIPE PER ARTICLE 230-8, 300.5 AND 300.50E. 25. PROVIDE EXPANSION FITTINGS AND/OR CONDUIT FLEX TO CONDUITS PASSING THROUGH STRUCTURAL EXPANSION JOINT SYSTEM. VERIFY/COORDINATE WITH ARCHITECT FOR LOCATION. 26. ALL RACEWAY PASSING THROUGH EXPANSION JOINT AREA SHALL BE PROVIDED WITH EXPANSION JOINT FITTINGS AND/OR FLEX CONDUIT AS REQUIRED. 27. ALL EXTERIOR MOUNTED GFI RECEPTACLE OUTLETS TO BE PROVIDED WITH LOCKABLE COVERS, TAYMAC MX3200. 28. ALL EQUIPMENT/COMPONENTS/DEVICES INSTALLED OUTDOOR SHALL BE U.L. LISTED FOR WET LOCATION. 29. THE CONTRACTOR SHALL VERIFY WITH THE ARCHITECTURAL DRAWINGS ALL LOCATIONS AND DIMENSIONS OF DEVICES/EQUIPMENT PRIOR TO ROUGH-IN. 30. ALL DIVISION 23 EQUIPMENT LOW VOLTAGE CONTROL WIRING SHALL BE PROVIDED AND INSTALLED BY DIVISION 23 U.O.N. PROVIDE CONDUIT WHERE REQUIRED 31. ALL CONDUIT STUB OUTS AND CONDUITS TERMINATING TO A J-BOX, CABINET, AND THE LIKE SHALL BE PROVIDED WITH INSULATED THROAT. BOX OR CABINET COVER SHALL BE LABELED AS TO USE. 32. MEP COMPONENT ANCHORAGE NOTES: ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30. ALL PERMANENT EQUIPMENT AND COMPONENTS. 2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. 'PERMANENTLY ATTACHED' SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING FLEXIBLE CABLE. 3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA. THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTARTE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS: A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT. B. COMPONENTS WEIGHING LESS THAN 20 POUNDS OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL. THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS. PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26. THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G. OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS. MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E): MP☐ MD☐ PP ☐ E ☒ - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

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#\ Revisions Revisions Date

NOT FOR CONSTRUCTION

PROGRESS SET

ISSUE DATE: <u>02/29/2024</u> \_\_ BY:\_\_\_<u>JA</u>\_\_

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BLDG LA HVAC UPGRADES

ELECTRICAL SYMBOLS, NOTES AND SCHEDULES

Client Project Number:

E0.01 Checked By: TLK Issue Date: 11/01/24 Revit Version: 2023

