

NEW HVAC AND REROOFING FOOTHILL HIGH SCHOOL 4375 FOOTHILL ROAD, PLEASANTON, CA 94588 PLEASANTON UNIFIED SCHOOL DISTRICT

GENERAL NOTES

PRE-BID SITE VISIT

CONTRACTOR SHALL VISIT THE PROJECT AREA IN ORDER TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND THE REQUIREMENTS OF THE PROJECT. THE CONTRACTOR MAY CONTACT THE ARCHITECT DURING THE BIDDING PHASE REGARDING CLARIFICATIONS AND PROJECT REQUIREMENTS.

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

AMAGE TO STRUCTURE OR SYSTEMS TO REMA CONTRACTOR SHALL REIMBURSE THE OWNER FOR REPAIR AND REPLACEMENT, INCLUDING ARCHITECT'S FEES, FOR ANY DAMAGE CAUSED TO STRUCTURES, LANDSCAPE, SITE WORK, OR EXISTING SYSTEMS TO REMAIN, AS THE RESULT OF CONSTRUCTION OPERATIONS.

EXISTING CONDITIONS

ALL EXISTING CONDITIONS ARE SHOWN BASED ON THE BEST INFORMATION AVAILABLE AT THE TIME, BUT WITHOUT GUARANTEE OF ACCURACY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND BUILDING DATA AT THE JOB SITE. ANY DISCREPANCIES REQUIRING MODIFICATION TO THE CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY. NO MODIFICATIONS SHALL BE MADE BY THE CONTRACTOR WITHOUT PRIOR APPROVAL FROM THE ARCHITECT

CONTRACTOR'S EQUIPMEN

COORDINATE WITH OWNER'S REPRESENTATIVE FOR APPROVED LOCATION OF JOB SITE ACCESS, PARKING, AND LOCATION OF CONTRACTOR'S EQUIPMENT AND MATERIAL STORAGE AREA. SEE SITE PLAN FOR ADDITIONAL NOTES.

UTILITY SHUT-DOWNS AND CONNECTION

ALL REQUIRED UTILITY SHUT DOWNS SHALL HAVE PRIOR APPROVAL FROM THE OWNER'S REPRESENTATIVE. REQUEST SHALL BE SUBMITTED WITH ADEQUATE ADVANCE NOTICE PER PROJECT REQUIREMENTS.

SBESTOS AND ASBESTOS PRODUCT

THE OWNER/OPERATOR AND CONTRACTOR SHALL BE AWARE THAT BUILDINGS CONSTRUCTED PRIOR TO 1978 (OR THERE ABOUT) POSSIBILITY CONTAIN ASBESTOS IN SOME EXISTING CONSTRUCTION MATERIALS, AND WILL LIKELY BE ENCOUNTERED DURING ALTERATIONS OR REMODELING.

UNDER CALIFORNIA TITLE 8, THE OWNER AND CONTRACTOR BOTH HAVE RESPONSIBILITIES TO DETERMINE THE EXISTENCE OF ASBESTOS CONTAINING MATERIALS IN AREAS TO BE ALTERED OR REMODELED PRIOR TO COMMENCEMENT OF WORK AND TO TAKE APPROPRIATE MEASURES TO PROTECT PERSONNEL. CAL-OSHA HAS JURISDICTION OVER ASBESTOS RELATED WORK. ASBESTOS RELATED WORK SHALL BE DONE IN ACCORDANCE WITH CALIFORNIA GENERAL INDUSTRIAL SAFETY ORDERS, TITLE 8, SECTION 341.6 THROUGH 341.14. ASBESTOS IN THE WORK ENVIRONMENT IS REGULATED BY TITLE 8, SECTION 5208.

THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT AND DISTRICT REGULATION 11-2-401.3 REQUIRES EVERY RENOVATION INVOLVING THE REMOVAL OF 100 SQ.FT., LN.FT, OR GREATER OF REGULATED ASBESTOS CONTAINING MATERIAL AND FOR EVERY DEMOLITION (EVEN WHEN NO ASBESTOS IS PRESENT), A NOTIFICATION MUST BE SENT TO THE BAAQMD AT LEAST 10 WORKING DAYS PRIOR TO COMMENCEMENT OF DEMOLITION / RENOVATION.

ALL BUILDING MATERIALS MUST BE ASBESTOS FREE.

THESE DOCUMENTS DO NOT ADDRESS CONTAINMENT FOR EXISTING AREAS OF ASBESTOS WHICH MAY BE DISCOVERED DURING CONSTRUCTION. THE OWNER'S ABATEMENT SUBCONTRACTOR IS SOLELY RESPONSIBLE FOR THE DETECTION, REMOVAL, AND THE DISPOSAL OF ANY EXISTING ASBESTOS MATERIAL. ARCHITECTURAL AND ENGINEERING FEES FOR ADDITIONAL DESIGN EFFORT TO OBTAIN STATE APPROVALS, AS WELL AS THE COST OF ANY REPAIRS, FOR DAMAGE CAUSED OR REPLACEMENT OF EXISTING SYSTEMS TO REMAIN, DUE TO WORK PERFORMED BY THE ASBESTOS ABATEMENT SUBCONTRACTOR, SHALL BE THE RESPONSIBILITY OF SAID SUBCONTRACTOR.

CONSTRUCTION SCHEDULING

CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH OWNER'S REPRESENTATIVE PRIOR TO SCHEDULING AND START OF THE WORK. CONTRACTOR SHALL PROVIDE PROTECTION TO ALL EXISTING SPACES AND SYSTEMS WHICH ARE IN USE, ADJOINING THE PROJECT, AND NOT PART OF THE PROJECT.

INTERIOR FINISHES

INTERIOR FINISHES AND ALL WALL COVERING MATERIAL SHALL CONFORM TO CCR TITLE 24, PART 2, CHAPTER 8.

PIPES, DUCTS AND CONDUIT - SUPPORT AND BRACING

PIPES, DUCTS, AND CONDUITS SHALL BE SUPPORTED AND BRACED PER THE SMACNA "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS", OPM 0052-13 SEISMIC BRACING AND SUPPORT SYSTEMS.

DRILLED-IN EXPANSION ANCHORS

WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER DRIVEN PINS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. WHEN INSTALLING THEM INTO EXISTING PRESTRESSED CONCRETE (PRE- OR POST-TENSIONED), LOCATE THE PRESTRESSED TENDONS BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. EXERCISE EXTREME CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN.

TITLE 24 COMPLIANCE

THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION. REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS (2019 CBC). SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK, SHALL BE SUBMITTED TO AND APPROVED BY THE DSA BEFORE PROCEEDING WITH THE WORK.

ADMINISTRATIVE REQUIREMENTS FROM PART 1., TITLE 24, C.C.R.

- CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT, AND APPROVED BY DSA, AS PER SECTION 4-338 - A DSA CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE DISTRICT AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF WORK, PER SECTION 4-342.

- A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT SHALL CONDUCT ALL REQUIRED TEST AND INSPECTIONS FOR THE PROJECT. - SPECIAL INSPECTION PER SECTION 4-333 (C)

- CONTRACTOR SHALL SUBMIT VERIFIED REPORT OR SECTION 4-336 & 4-343 - ADMINISTRATION OR CONSTRUCTION PER PART 1, TITLE 24, C.C.R.

- DUTIES OF ARCHITECT, STRUCTURAL ENGINEER, OR PROFESSIONAL ENGINEER PER SECTION 4-333 (A) AND 4-341 - DUTIES OF CONTRACTOR PER SECTION 4-343 - VERIFIED REPORTS PER SECTION 4-343 AND 4-336

A COPY OF PARTS 1 TO 5 OF TITLE 24 SHALL BE KEPT AND AVAILABLE IN THE FIELD DURING CONSTRUCTION - DSA SHALL BE NOTIFIED AT START OF CONSTRUCTION AND PRIOR TO PLACEMENT OF CONCRETE PER SECTION 4-331 - SUPERVISION BY DSA PER SECTION 4-334

- DSA IS NOT SUBJECT TO ARBITRATION

GENERAL NOTES, cont.

ADMINISTRATIVE REQUIREMENTS

- ADDENDA MUST BE SIGNED BY ARCHITECT AND APPROVED BY DSA NO CHANGES OR REVISIONS SHALL BE MADE FOLLOWING WRITTEN APPROVAL WHICH
- AFFECTS ACCESS COMPLIANCE ITEM UNLESS SUCH CHANGES TO REVISIONS ARE SUBMITTED TO DSA FOR APPROVAL SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE SUBMITTED AS A
- CONSTRUCTION CHANGE DOCUMENT OR ADDENDA, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION CONSTRUCTION CHANGE DOCUMENTS MUST BE SIGNED BY THE FOLLOWING: ARCHITECT OR ENGINEER OF RECORD
- STRUCTURAL ENGINEER (WHEN APPLICABLE DELEGATED PROFESSIONAL ENGINEER
- MATERIALS AND THEIR INSTALLATIONS SHALL COMPLY WITH APPLICABLE CODES. PER CBC 11B-104.1 "ALL DIMENSIONS ARE SUBJECT TO CONVENTIONAL INDUSTRY TOLERANCES EXCEPT WHERE THE REQUIREMENT IS STATED AS A RANGE WITH SPECIFIC MINIMUM AND MAXIMUM END POINTS.

COMPLIANCE WITH LOCAL ORDINANCES

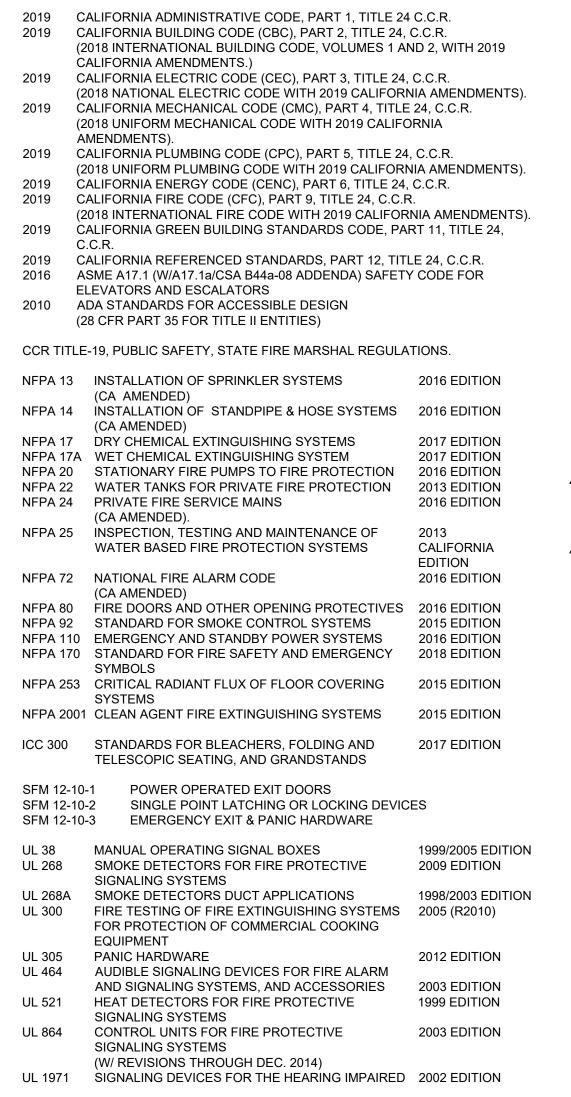
GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

ABBREVIATIONS

	REVIATION		
	CONSULTANT DRAWINGS FOR		,
λ.F.F. λ.Ρ.	ABOVE FINISHED FLOOR ACCESS PANEL	LAM. LAV.	LAMINATE LAVATORY
ACT	ACOUSTIC TILE	M.B.	MACHINE BOLT
ADJ.	ADJUSTABLE	M.S.	MACHINE SCREW
ALUM. A.B.	ALUMINUM ANCHOR BOLT	M.H.	MANHOLE
APPROX.	APPROXIMATELY	MFG. M.B.	MANUFACTURER MARKER BOARD
ARCH. AC	ARCHITECT ASPHALTIC CONCRETE	MATL.	MATERIAL
<u>D</u>	AT	MAX. MECH.	MAXIMUM MECHANICAL
3.M. BLKG.	BENCH MARK BLOCKING	MTL.	METAL
BD.	BOARD	MIN.	MINIMUM
3.W.	BOTH WAYS	MISC. MTD.	MISCELLANEOUS MOUNTED
	BOTTOM BUILDING	(N)	NEW
3.U.R.	BUILT-UP ROOFING	NOM.	NOMINAL
C.B. CLG.	CATCH BASIN CEILING	N.I.C. N.T.S.	NOT IN CONTRACT NOT TO SCALE
CEM.	CEMENT	NO. or #	NUMBER
C.C or O.C.	CENTER TO CENTER	OCC.	OCCUPANT(CY)
CER. TILE	CENTERLINE CERAMIC TILE	O.C. OPNG.	ON CENTER
C.O.	CLEANOUT	OPNG. OPP.	OPENING OPPOSITE
C.O.T.G. CLR.	CLEANOUT TO GRADE CLEAR	O.H.	OPPOSITE HAND
DLR. D.A.H.R.	CLEAR ALL HEART		OUTSIDE FACE OF STUD OVAL HEAD WOOD SCREW
	REDWOOD	0.п.w.з. 0.D.	OVAL HEAD WOOD SCREW OVERFLOW DRAIN and/or
C.W. COL.	COLD WATER COLUMN		OUTSIDE DIAMETER
COM.	COMMON	0.F.C.I.	OWNER FURNISHED and CONTRACTOR INSTALLED
CONC.	CONCRETE	PR.	PAIR
CONST. C.H.	CONSTRUCTION CONSTRUCTION HEART	PART. PL	PARTITION PLATE
C.J.	CONSTRUCTION JOINT	d	PENNY (NAILS)
CONT.	CONTINUOUS	PLAS.	PLASTER
CONTR. CTR.	CONTRACTOR COUNTER	PLYWD.	PLYWOOD POLY VINYL CHLORIDE
CTSK.	COUNTER SUNK		PRESSURE TREATED
DET. DIA. or Ø	DETAIL DIAMETER	P.L.	
DIM.	DIMENSION	R. or RAD. R.W.L.	RADIUS RAIN WATER LEADER
D.A.	DISABLED ACCESS		REDWOOD
DR. D.S.	DOOR DOWNSPOUT	REINF.	REINFORCING
	DRAWING	REQD R.A.G.	REQUIRED RETURN AIR GRILLE
	DRINKING FOUNTAIN	R.E.	RIM ELEVATION
	and/or DOUGLAS FIR EACH		ROOF DRAIN ROOM
	EACH WAY		ROUGH OPENING
ELEC.	ELECTRIC or ELECTRICAL	RND.	ROUND
EL. or EL EV	ELEVATION		ROUND HEAD METAL SCREW ROUND HEAD WOOD SCREW
ENCL.	ENCLOSE and/or ENCLOSURE	SSD.	SEE STRUCTURAL DRAWINGS
<u>-Q</u> .	EQUAL EQUIPMENT	S.T.S.M.S.	SELF TAPPING SHEET
E)	EXISTING	SHEATH	METAL SCREW SHEATHING
X.	EXPANSION EXPANSION JOINT EXPOSED	S.M.	SHEET METAL
E.J. EXP.	EXPANSION JOINT	S.M.S.	SHEET METAL SCREW
EXT.	EXTERIOR		SHUT OFF VALVE SIMILAR
.O.C.	FACE OF CONCRETE		SOLID CORE
O.M. O.S.	FACE OF MASONRY FACE OF STUD	SPEC.	SPECIFICATION
.O.F.	FACE OF FINISH		SQUARE SQUARE FEET
IN. F.F.		STAG	STAGGERED
.г. .S.	FINISHED FLOOR FINISH SLAB FIRE EXTINGUISHER	STD.	STANDARD STAINLESS STEEL
.Е.	FIRE EXTINGUISHER	0.71	
•.Е.С. - Н	FIRE EXTINGUISHER CABINET FIRE HYDRANT	OTOR.	
	FLAT HEAD METAL SCREW	S.A.G.	STRUCTURAL SUPPLY AIR GRILLE
H.W.S.	FLAT HEAD WOOD SCREW	THRES.	THRESHOLD
L. or FLR.	FLOOR FLOOR DRAIN		TONGUE & GROOVE TOOLED JOINT
	FOOTING		TOP OF BEAM
	FOUNDATION	T.O.C.	TOP OF CURB or CONCRETE
GALV. G.I.	GALVANIZED GALVANIZED IRON	T.O.S. T.O.W.	TOP OF STEEL or SHEATHING TOP OF WALK
GA.	GAUGE	TYP.	TYPICAL
GL.	GLASS	U.O.N.	UNLESS OTHERWISE NOTED
GLU-LAM GRD.	GLUE-LAMINATED GRADE	U.O.S. V.T.R.	UNLESS OTHERWISE SHOWN VENT THROUGH ROOF
GYP. BD.	GYPSUM BOARD	VERT.	VERTICAL
HDW. HT.	HARDWARE HEIGHT	V.G. V.I.F.	VERTICAL GRAIN VERIFY IN FIELD
1.C.	HOLLOW CORE	V.C.T.	VINYL COMPOSITION TILE
Н.М.	HOLLOW METAL	V.W.C.	VINYL WALL COVERING
ioriz. I.B.	HORIZONTAL HOSE BIBB	V.O.I.P. W.C.	VOICE OVER INTERNET PROTOCOL WATER CLOSET
.D.	INSIDE DIAMETER	W.C. W.H.	WATER HEATER
NSUL.	INSULATION	WP.	WATERPROOF
NT. NV.	INTERIOR INVERT	W.R. W.W.M.	WATER RESISTANT WELDED WIRE MESH
Т	JOINT	W.D.	WINDOW DIMENSION
I.H. K.D.	JOIST HANGER KILN DRIED	W/	WITH
.υ.		W/O WD.	WITHOUT WOOD



BUILDING CODES AND STANDARDS:



COMPLIANCE WITH CFC CHAPTER 33, FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION AND CBC CHAPTER 33, SAFETY DURING CONSTRUCTION WILL BE ENFORCED.

SYMBOLS LEGEND

SECTION / EXTERIOR ELEVATION - SECTION IDENTIFICATION - SHEET WHERE SECTION IS DRAWN

DETAIL A9.1 - SHEET WHERE DETAIL IS DRAWN



∕ 3 |

(102A)

 $\langle A \rangle$

(+8'-0")

ROOM IDENTIFICATION CLASSROOM ROOM NAME 102 ROOM NUMBER

- SPECIFIC NOTE
- DOOR DESIGNATION
- WINDOW DESIGNATION

ADDENDUM REVISION CLOUD AROUND REVISION

- CCD REVISION CLOUD AROUND REVISION
- (127)-----FINISH NUMBER SEE SPECS AND I.E. DWGS.
 - EQUIPMENT LETTER SEE EQUIPMENT SCHEDULE

CEILING HEIGHT

WALL TYPE

MATCH LINE +8'-0" ELEV. HEIGHT

/ CENTER OF

- FACE OF

PROJECT SUMMARY

THERE ARE NO DEFERRED SUBMITTALS FOR THIS PROJECT.

DESIGN TEAM

SUGIMURA FINNEY ARCHITECTS 2155 SOUTH BASCOM AVENUE SUITE 200 CAMPBELL, CALIFORNIA 95008 (408) 879-0600 (408) 377-6066 FAX

MECHANICAL AND PLUMBING ENGINEER CYPRESS ENGINEERING GROUP 8 HARRIS COURT, SUITE A8 MONTEREY, CALIFORNIA 93940 (831) 218-1802

SAN JOSE, CA 95110 (408) 564-7925

THE DEMOLITION OF EXISTING ROOFING AND THE INSTALLATION T1 TITLE SHEET OF NEW BUILD UP ROOFING ON BUILDINGS E, F, AND G. THE REFURBISHMENT OF EXISTING ROOF SCREENS INCLUDING REPAINTING OF EXISTING SUPPORTS, NEW GATES, AND METAL WALL PANELS. ADDITIONALLY, THE HVAC UNITS AND PLATFORMS THAT THEY SIT ON WILL BE REPLACED.

DRAWING INDEX

ECTURAL
SITE PLAN
DEMOLITION ROOF PLAN BUILDING E
NEW ROOF PLAN BUILDING E
DEMOLITION ROOF PLAN BUILDING F

.0	DEMOLITION ROOF FLAN BUILDING I
.4	NEW ROOF PLAN BUILDING F
.5	DEMOLITION AND NEW ROOF PLANS BUILDING G
.1	TYPICAL DETAILS

MECHANICAL / PLUMBING

MP0.1 SYMBOL LEGENDS, ABBREVIATIONS, NOTES - MECHANICAL & PI UMBING MP3.2 BUILDING F - DEMOLITION ROOF PLAN - MECHANICAL & PLUMBING MP3.3 BUILDING G - DEMOLITION ROOF PLAN - MECHANICAL & PLUMBING MP3.5 BUILDING F - NEW ROOF PLAN - MECHANICAL & PLUMBING

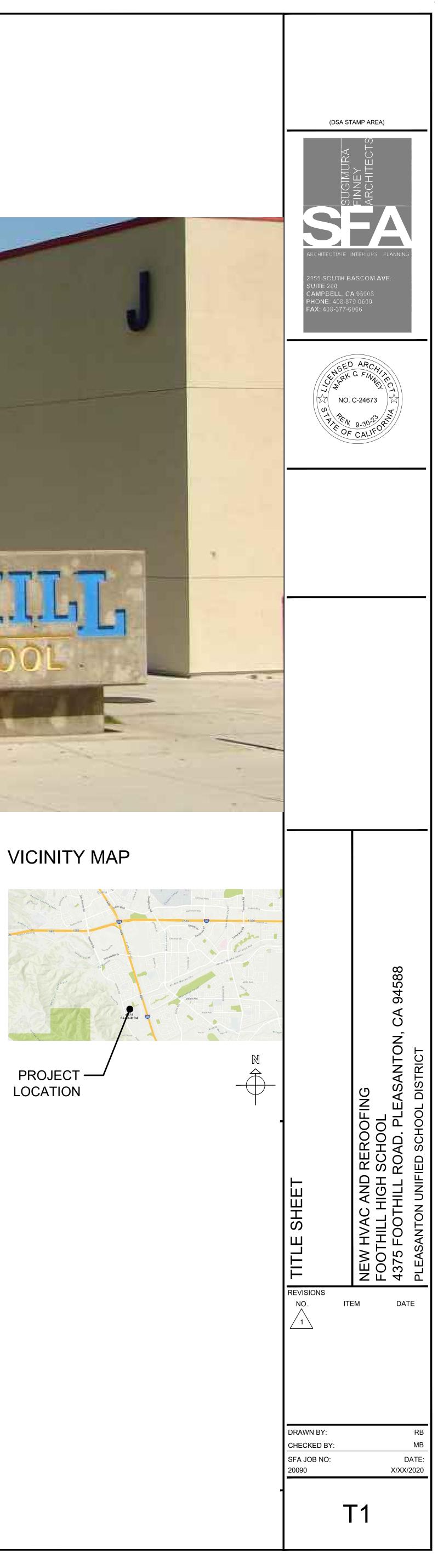
MP3.6 BUILDING G - NEW ROOF PLAN - MECHANICAL & PLUMBING MP6.1 DETAILS - MECHANICAL & PLUMBING MP7.1 BLDG F - EXISTING FLOOR PLANS - MECHANCIAL / TAB WORK MP7.2 BLDG G - EXISTING FLOOR PLANS - MECHANCIAL / TAB WORK MP8.1 TITLE 24 FORMS - MECHANICAL MP8.2 TITLE 24 FORMS - PLUMBING

ELECTRICAL

- E0.1 SYMBOLS, ABBREVIATIONS, CODES, STANDARDS, EQUIPMENT ANCHORAGE, NOTES & SHEET INDEX
- E1.1 ELECTRICAL DETAILS E2.1 ELECTRICAL SITE PLAN
- E3.1 ELECTRICAL DEMOLITION PLANS BUILDINGS F & G E4.1 ELECTRICAL ROOF PLANS - BUILDINGS F & G

E4.2 POWER PLAN - BUILDING F FA0.1 FIRE ALARM SYMBOLS, ABBREVIATIONS, EQUIPMENT LIST, BATTERY CALCULATION, OPERATIONAL MATRIX, NOTES & FIRE ALARM RISER DIAGRAM FA4.1 FIRE ALARM PLAN - BUILDING F

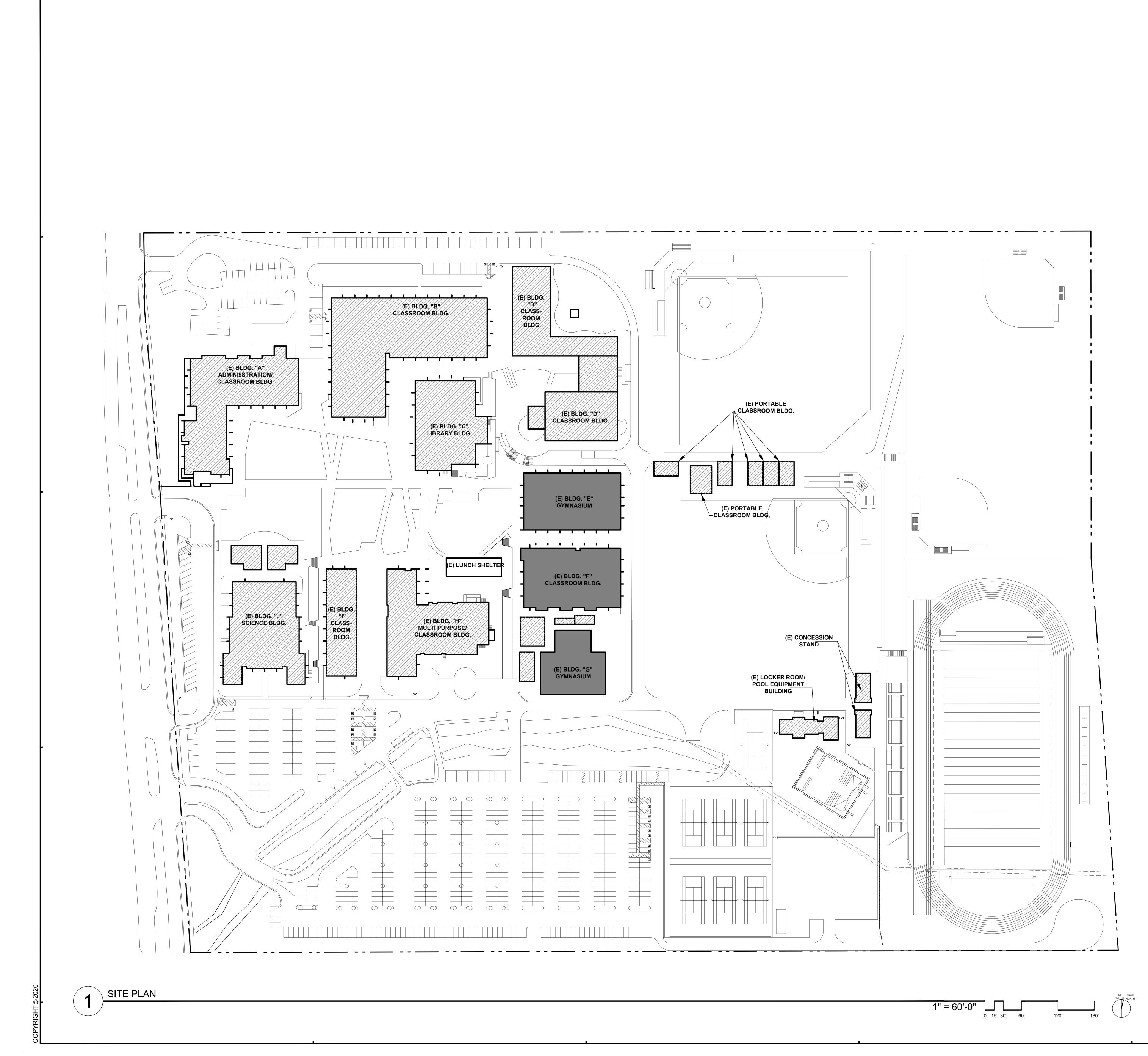
SHEET TOTAL = 27



ATTN: MARK FINNEY MARK@SUGIMURA.COM

ELECTRICAL AND FIRE ALARM ENGINEER AURUM CONSULTING ENGINEERS 1798 TECHNOLOGY DRIVE, SUITE 242

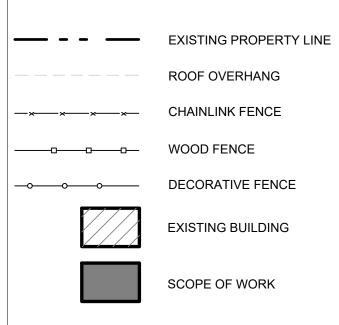




GENERAL NOTES

- A. REFER TO LANDSCAPE, CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, FIRE ALARM, AND FIRE PROTECTION DRAWINGS FOR EXTENT OF OTHER RELATED WORK.
- B. CONTRACTOR TO VERIFY PORTABLE BUILDING NUMBERS WITH THE DISTRICT PRIOR TO SIGNAGE.
- C. CONTRACTOR TO VERIFY ALL BARRIERS IN P.O.T. HAVE BEEN REMOVED.

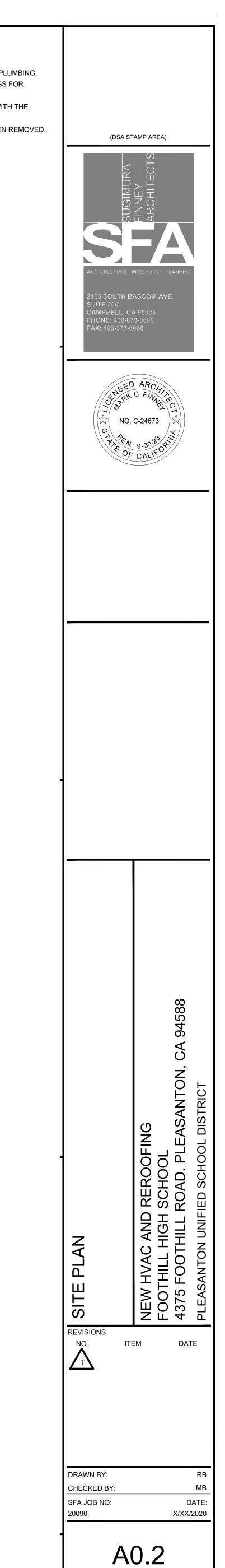
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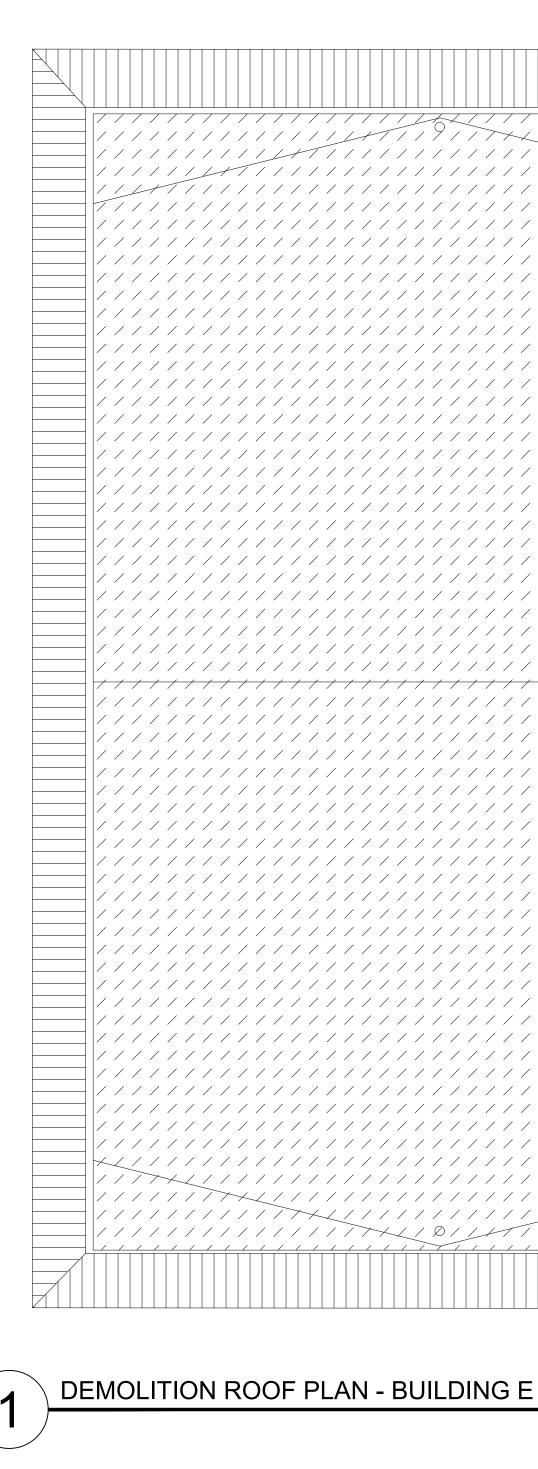


- EXISTING BUILDING

ROOF OVERHANG

SCOPE OF WORK





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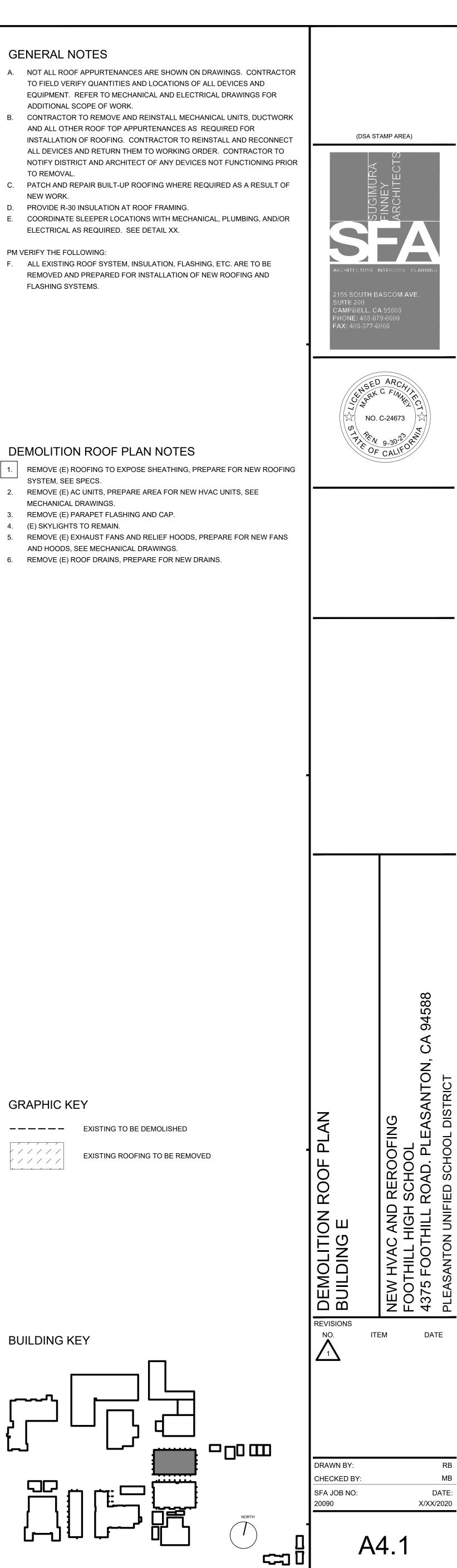
- TO REMOVAL.
- NEW WORK.

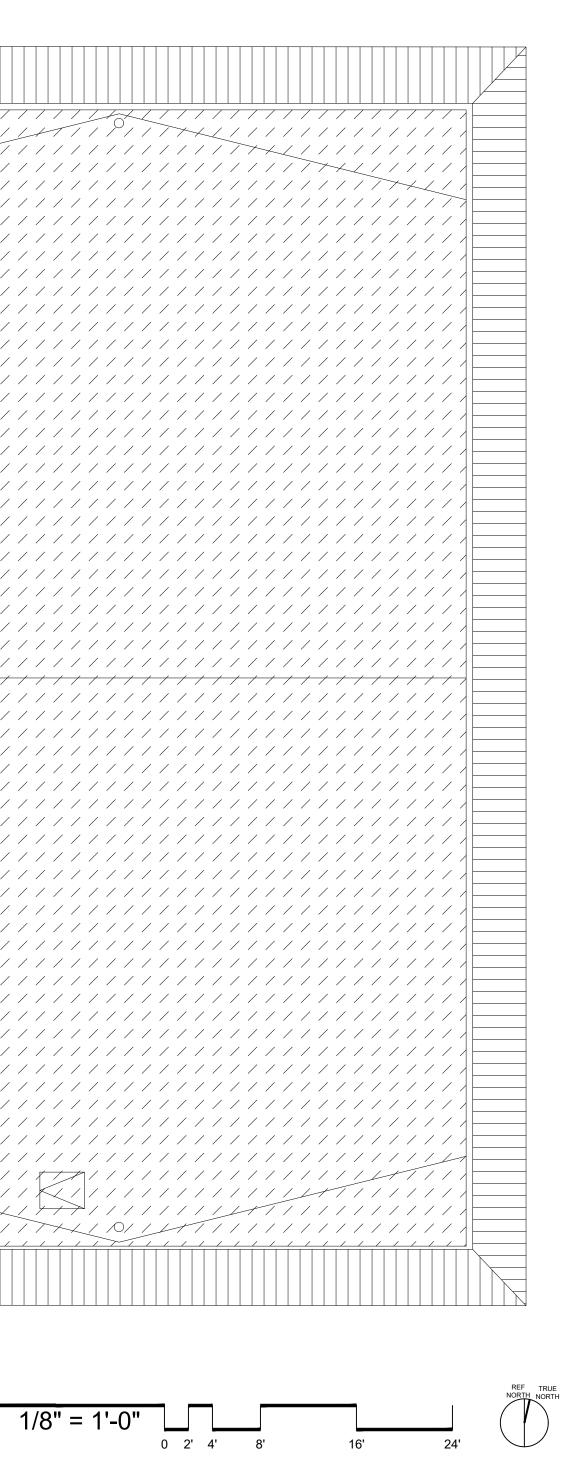
FLASHING SYSTEMS.

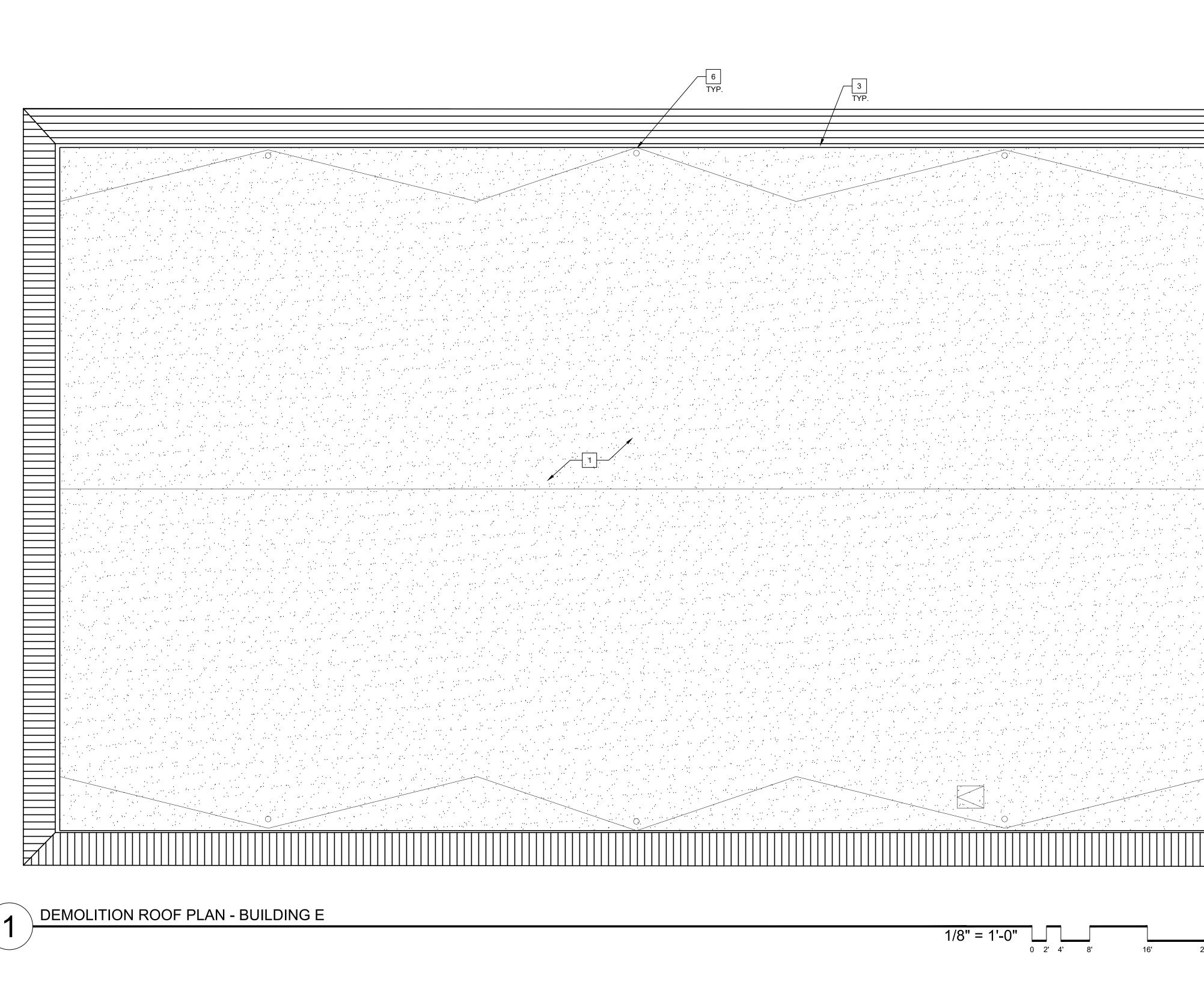
- SYSTEM, SEE SPECS.
- MECHANICAL DRAWINGS.

- AND HOODS, SEE MECHANICAL DRAWINGS.





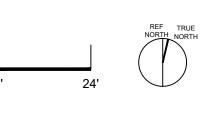




- TO REMOVAL.
- NEW WORK.

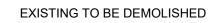
FLASHING SYSTEMS.

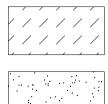
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- WALL. PREPARE FOR NEW ROOFING SYSTEM, SEE SPECS.

- AND HOODS, SEE MECHANICAL DRAWINGS.

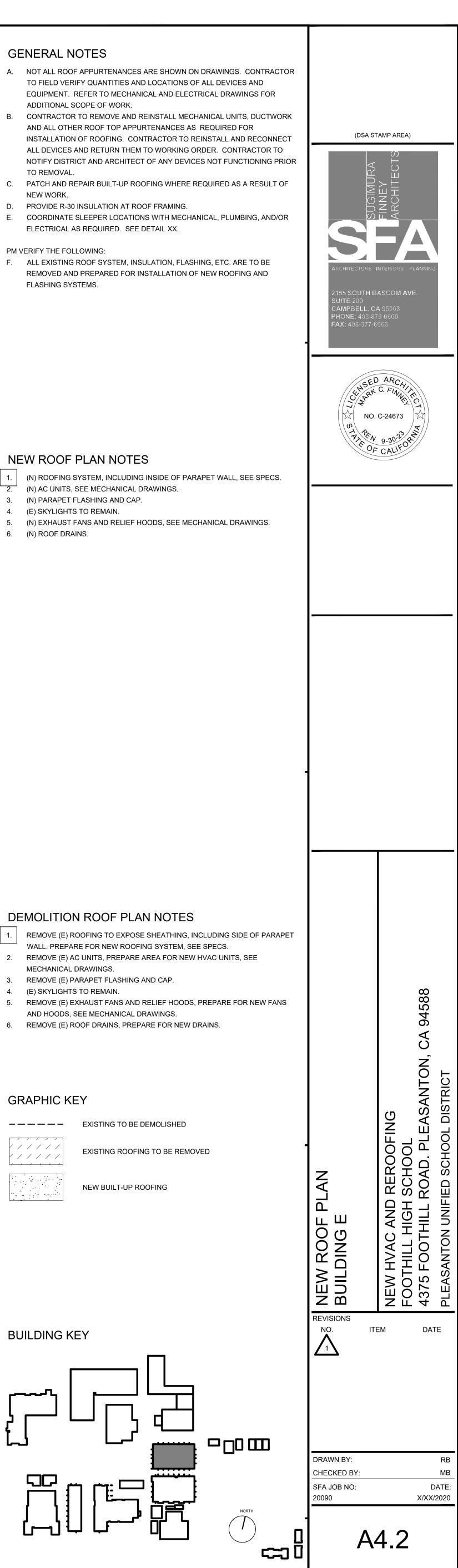


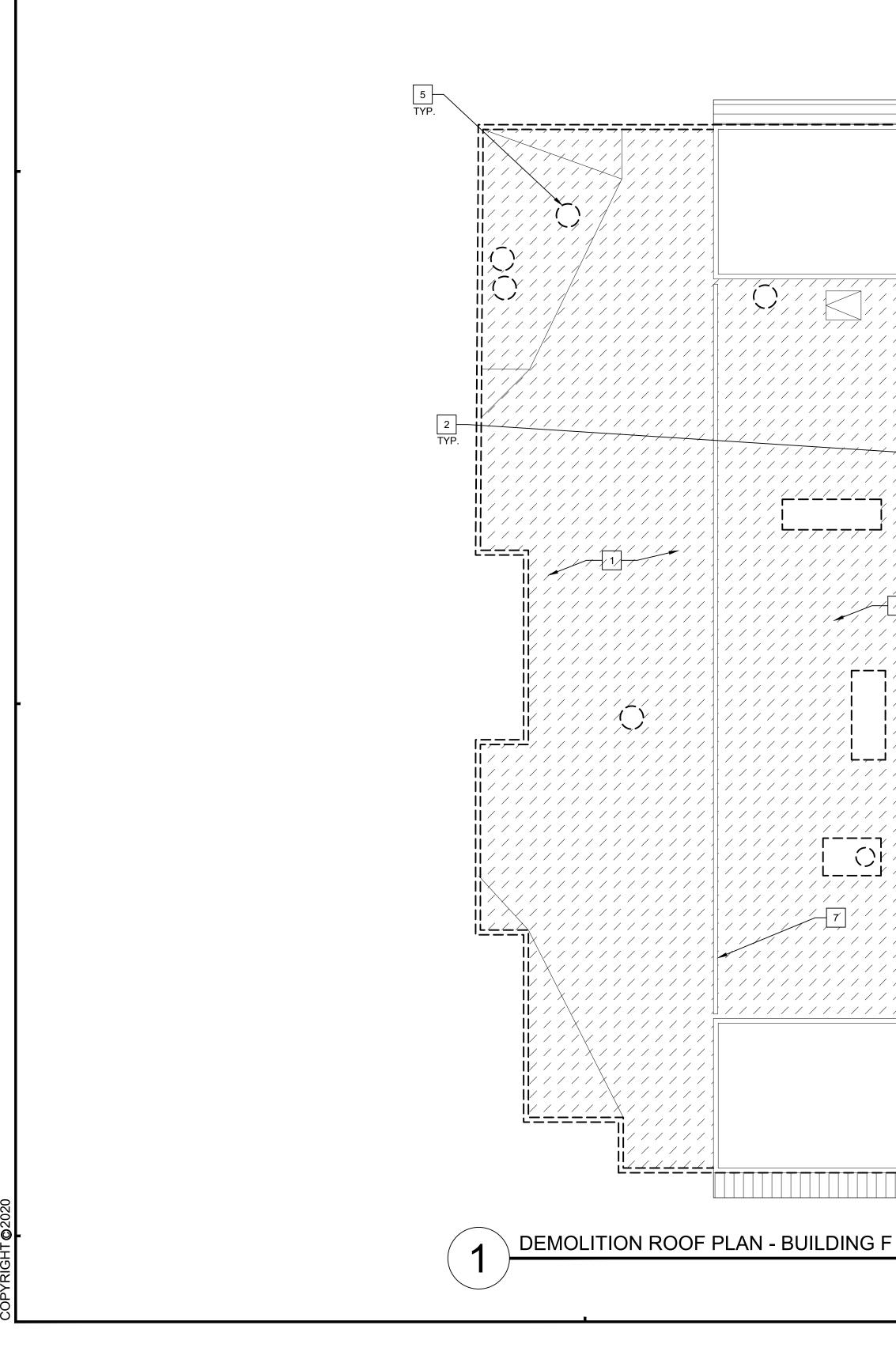






NEW BUILT-UP ROOFING





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1/8" = 1'-0"

GENERAL NOTES

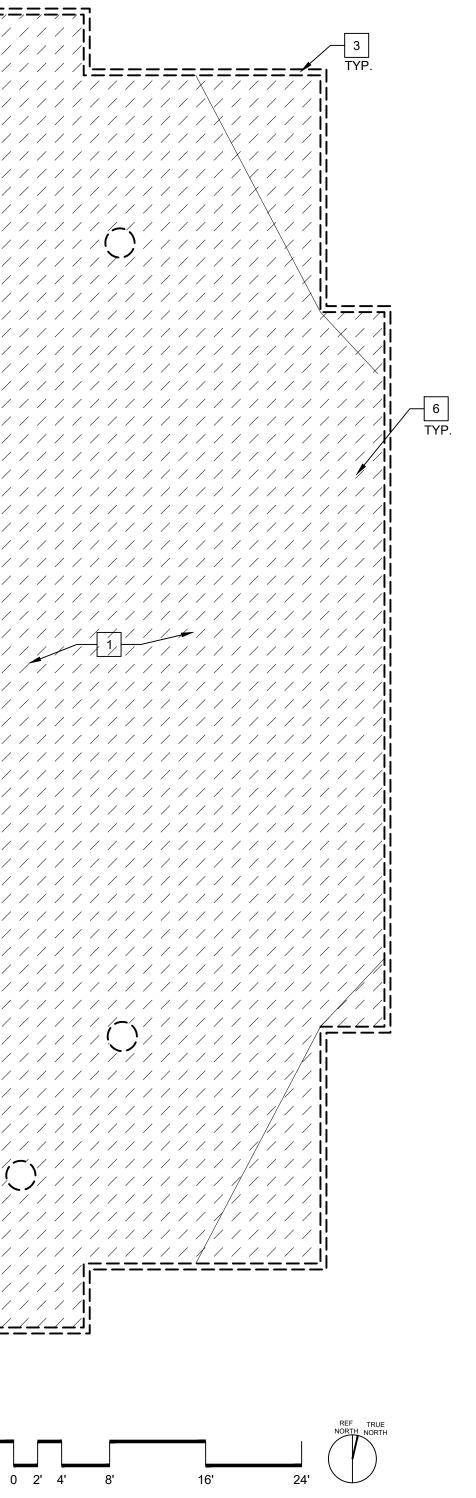
- A. NOT ALL ROOF APPURTENANCES ARE SHOWN ON DRAWINGS. CONTRACTOR TO FIELD VERIFY QUANTITIES AND LOCATIONS OF ALL DEVICES AND EQUIPMENT. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL SCOPE OF WORK.
- B. CONTRACTOR TO REMOVE AND REINSTALL MECHANICAL UNITS, DUCTWORK AND ALL OTHER ROOF TOP APPURTENANCES AS REQUIRED FOR INSTALLATION OF ROOFING. CONTRACTOR TO REINSTALL AND RECONNECT ALL DEVICES AND RETURN THEM TO WORKING ORDER. CONTRACTOR TO NOTIFY DISTRICT AND ARCHITECT OF ANY DEVICES NOT FUNCTIONING PRIOR TO REMOVAL.
- C. PATCH AND REPAIR BUILT-UP ROOFING WHERE REQUIRED AS A RESULT OF NEW WORK.
- D. PROVIDE R-30 INSULATION AT ROOF FRAMING. E. COORDINATE SLEEPER LOCATIONS WITH MECHANICAL, PLUMBING, AND/OR ELECTRICAL AS REQUIRED. SEE DETAIL XX.

PM VERIFY THE FOLLOWING:

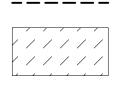
F. ALL EXISTING ROOF SYSTEM, INSULATION, FLASHING, ETC. ARE TO BE REMOVED AND PREPARED FOR INSTALLATION OF NEW ROOFING AND FLASHING SYSTEMS.

DEMOLITION ROOF PLAN NOTES

- REMOVE (E) ROOFING TO EXPOSE SHEATHING, INCLUDING SIDE OF PARAPET WALL. PREPARE FOR NEW ROOFING SYSTEM, SEE SPECS. 2. REMOVE (E) AC UNITS, PREPARE AREA FOR NEW HVAC UNITS, SEE
- MECHANICAL DRAWINGS. 3. REMOVE (E) PARAPET FLASHING AND CAP.
- 4. (E) SKYLIGHTS TO REMAIN.
- 5. REMOVE (E) EXHAUST FANS AND RELIEF HOODS, PREPARE FOR NEW FANS AND HOODS, SEE MECHANICAL DRAWINGS. 6. REMOVE (E) ROOF DRAINS, PREPARE FOR NEW DRAINS.
- 7. PRESSURE WASHER INNER EQUIPMENT SCREEN WALL. PREPARE FOR PAINT.



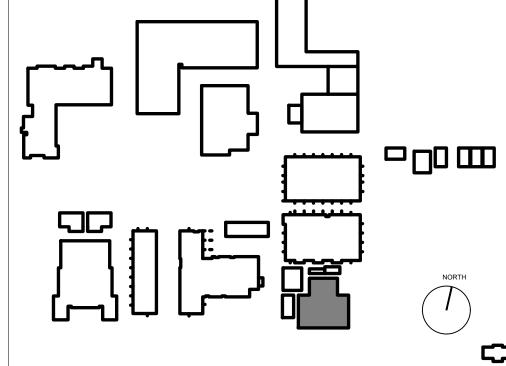
GRAPHIC KEY

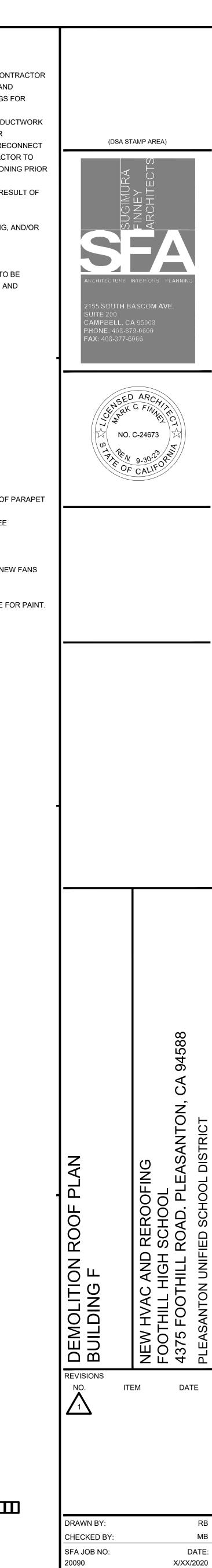


---- EXISTING TO BE DEMOLISHED

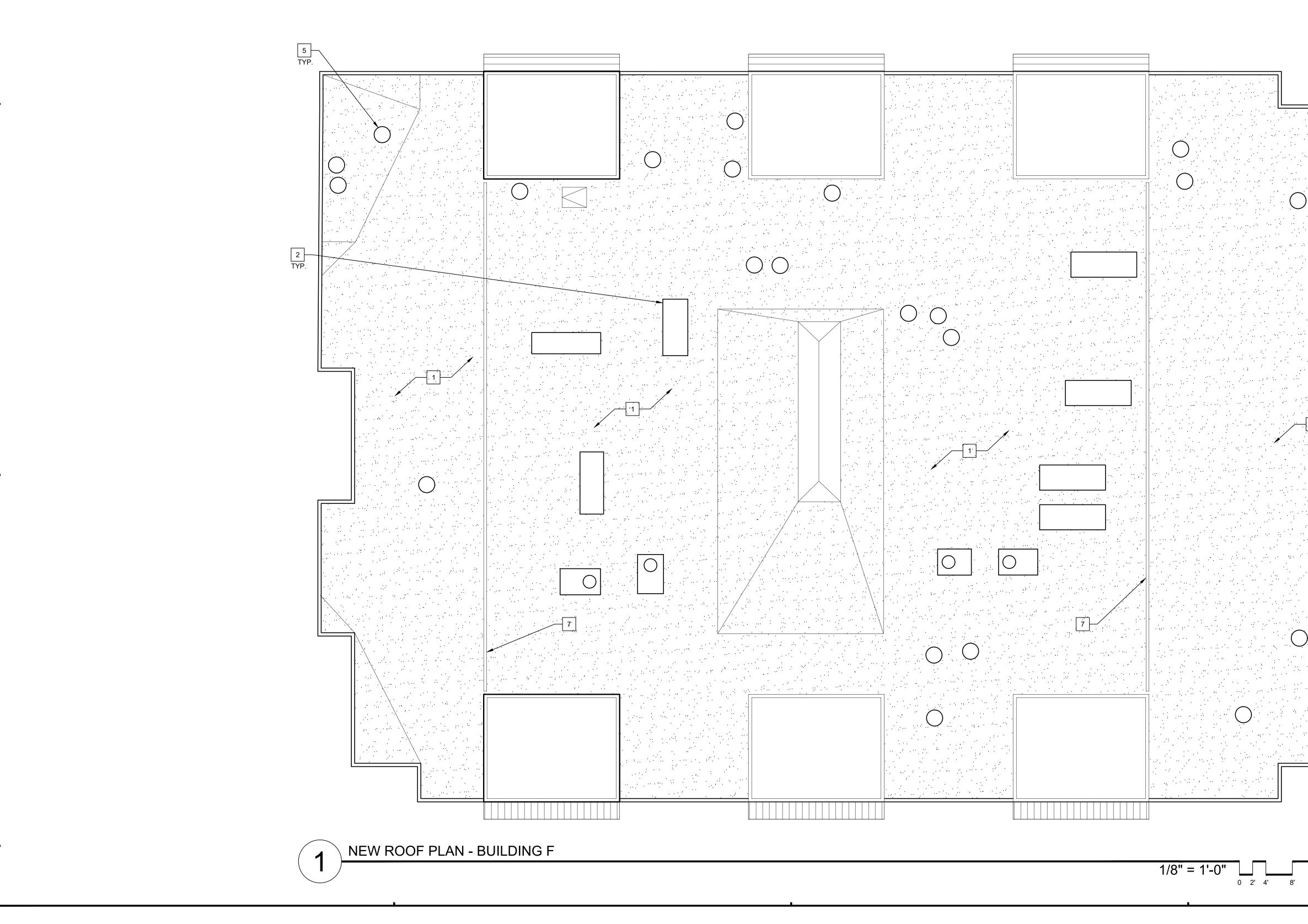
EXISTING ROOFING TO BE REMOVED

BUILDING KEY





A4.3



GENERAL NOTES

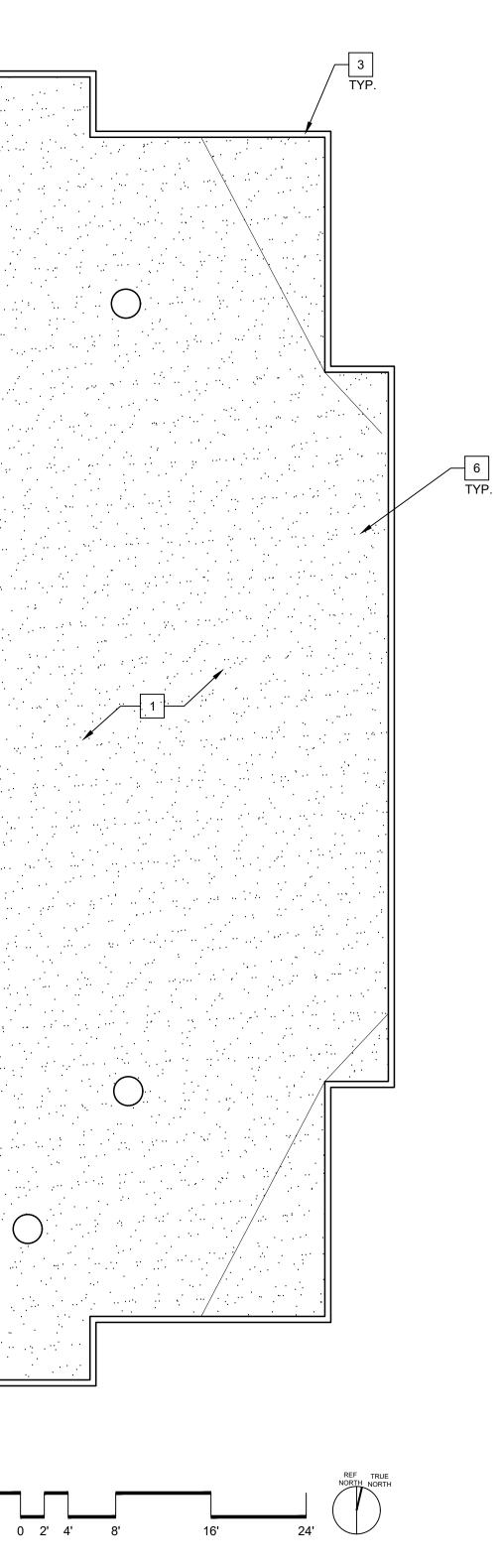
- A. NOT ALL ROOF APPURTENANCES ARE SHOWN ON DRAWINGS. CONTRACTOR TO FIELD VERIFY QUANTITIES AND LOCATIONS OF ALL DEVICES AND EQUIPMENT. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL SCOPE OF WORK.
- B. CONTRACTOR TO REMOVE AND REINSTALL MECHANICAL UNITS, DUCTWORK AND ALL OTHER ROOF TOP APPURTENANCES AS REQUIRED FOR INSTALLATION OF ROOFING. CONTRACTOR TO REINSTALL AND RECONNECT ALL DEVICES AND RETURN THEM TO WORKING ORDER. CONTRACTOR TO NOTIFY DISTRICT AND ARCHITECT OF ANY DEVICES NOT FUNCTIONING PRIOR TO REMOVAL.
- C. PATCH AND REPAIR BUILT-UP ROOFING WHERE REQUIRED AS A RESULT OF NEW WORK.
- D. PROVIDE R-30 INSULATION AT ROOF FRAMING. E. COORDINATE SLEEPER LOCATIONS WITH MECHANICAL, PLUMBING, AND/OR ELECTRICAL AS REQUIRED. SEE DETAIL XX.

PM VERIFY THE FOLLOWING:

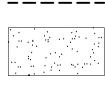
F. ALL EXISTING ROOF SYSTEM, INSULATION, FLASHING, ETC. ARE TO BE REMOVED AND PREPARED FOR INSTALLATION OF NEW ROOFING AND FLASHING SYSTEMS.

NEW ROOF PLAN NOTES

- 1. (N) ROOFING SYSTEM, INCLUDING INSIDE OF PARAPET WALL, SEE SPECS. 2. (N) AC UNITS, SEE MECHANICAL DRAWINGS. 3. (N) PARAPET FLASHING AND CAP.
- 4. (E) SKYLIGHTS TO REMAIN.
- 5. (N) EXHAUST FANS AND RELIEF HOODS, SEE MECHANICAL DRAWINGS.
- 6. (N) ROOF DRAINS. 7. PAINT (E) EQUIPMENT SCREEN WALL, REFER TO DISTRICT FOR COLOR.



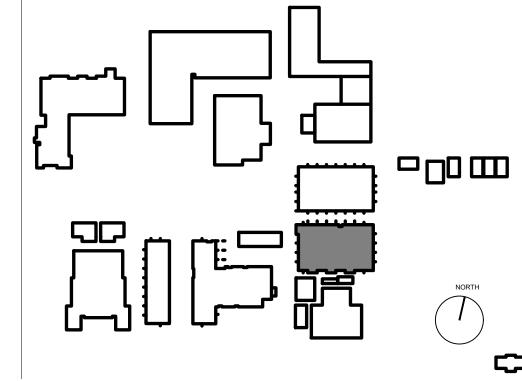
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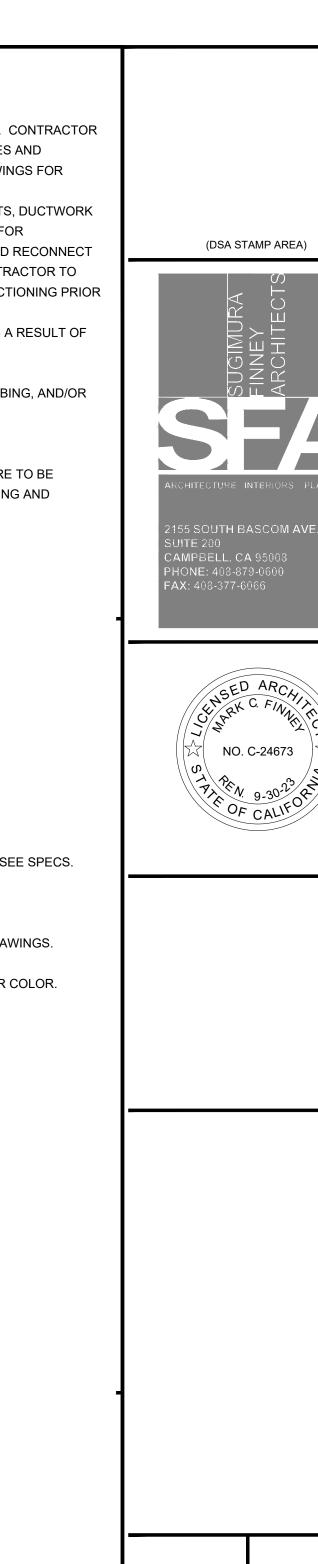


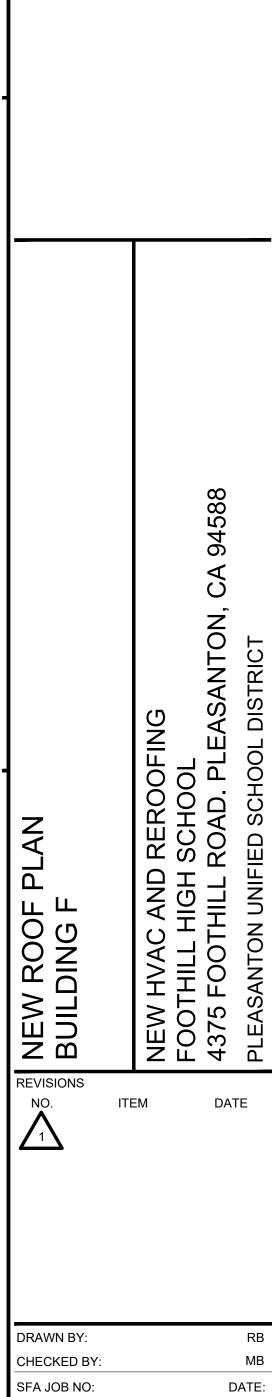
---- EXISTING TO BE DEMOLISHED

NEW BUILT-UP ROOFING

BUILDING KEY





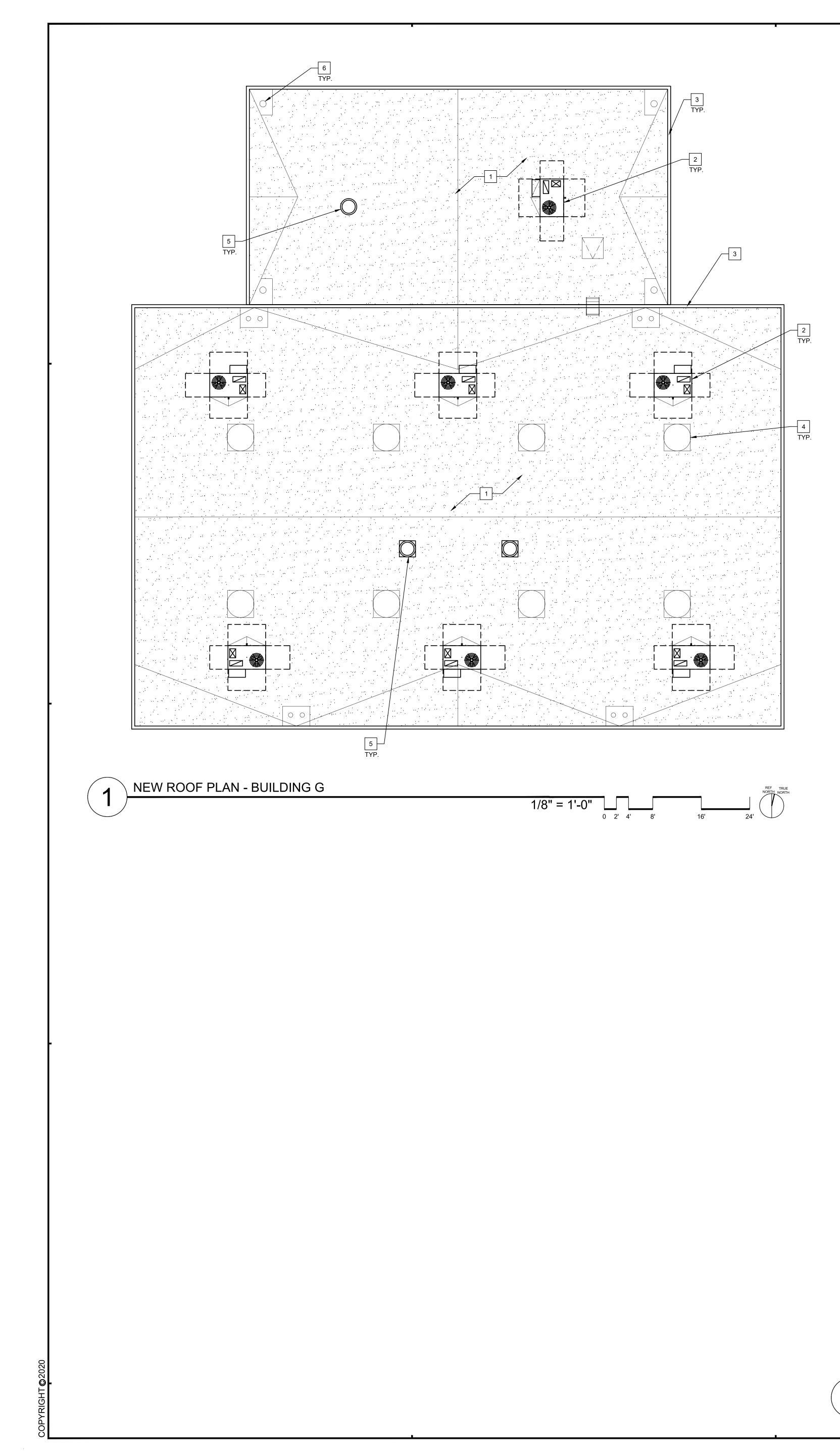


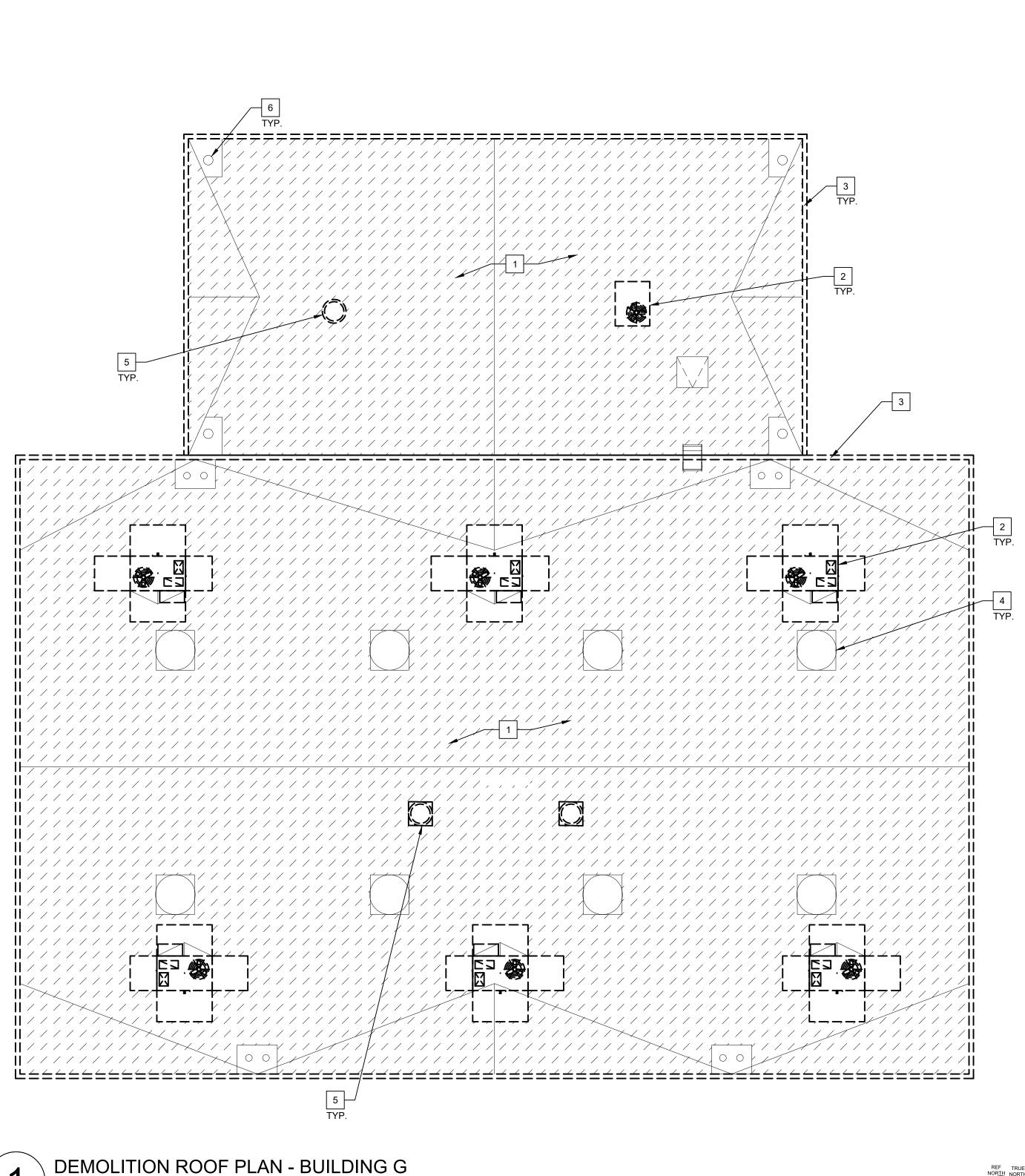
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1/8" = 1'-0"

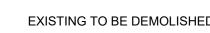
0 2' 4' 8'

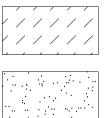
- NEW WORK.

FLASHING SYSTEMS.

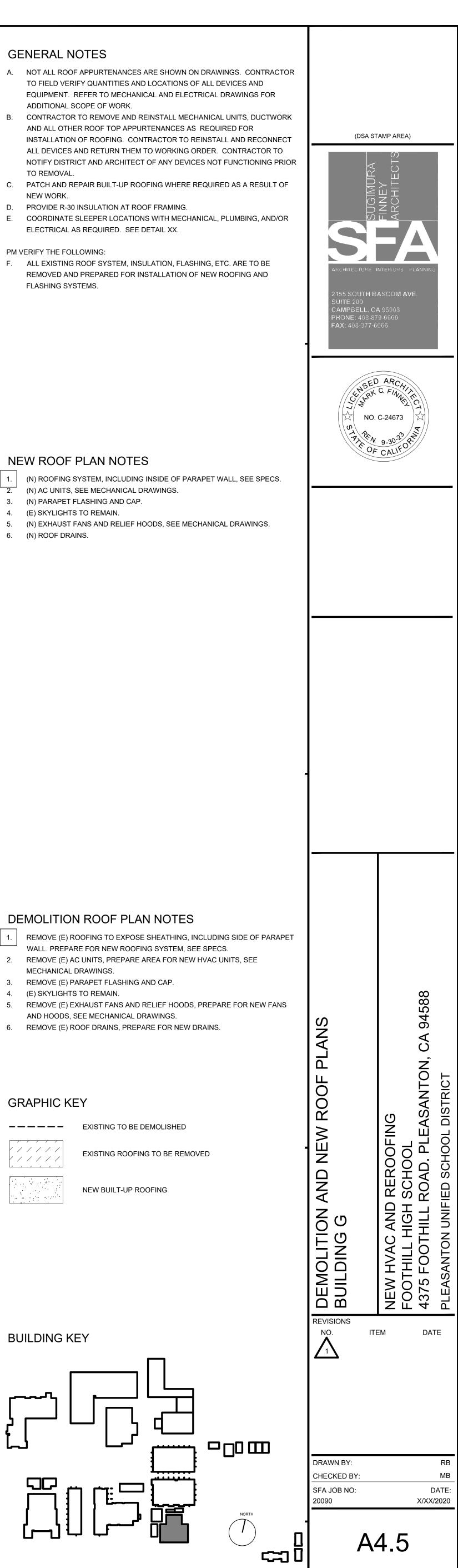
- WALL. PREPARE FOR NEW ROOFING SYSTEM, SEE SPECS.

- AND HOODS, SEE MECHANICAL DRAWINGS.



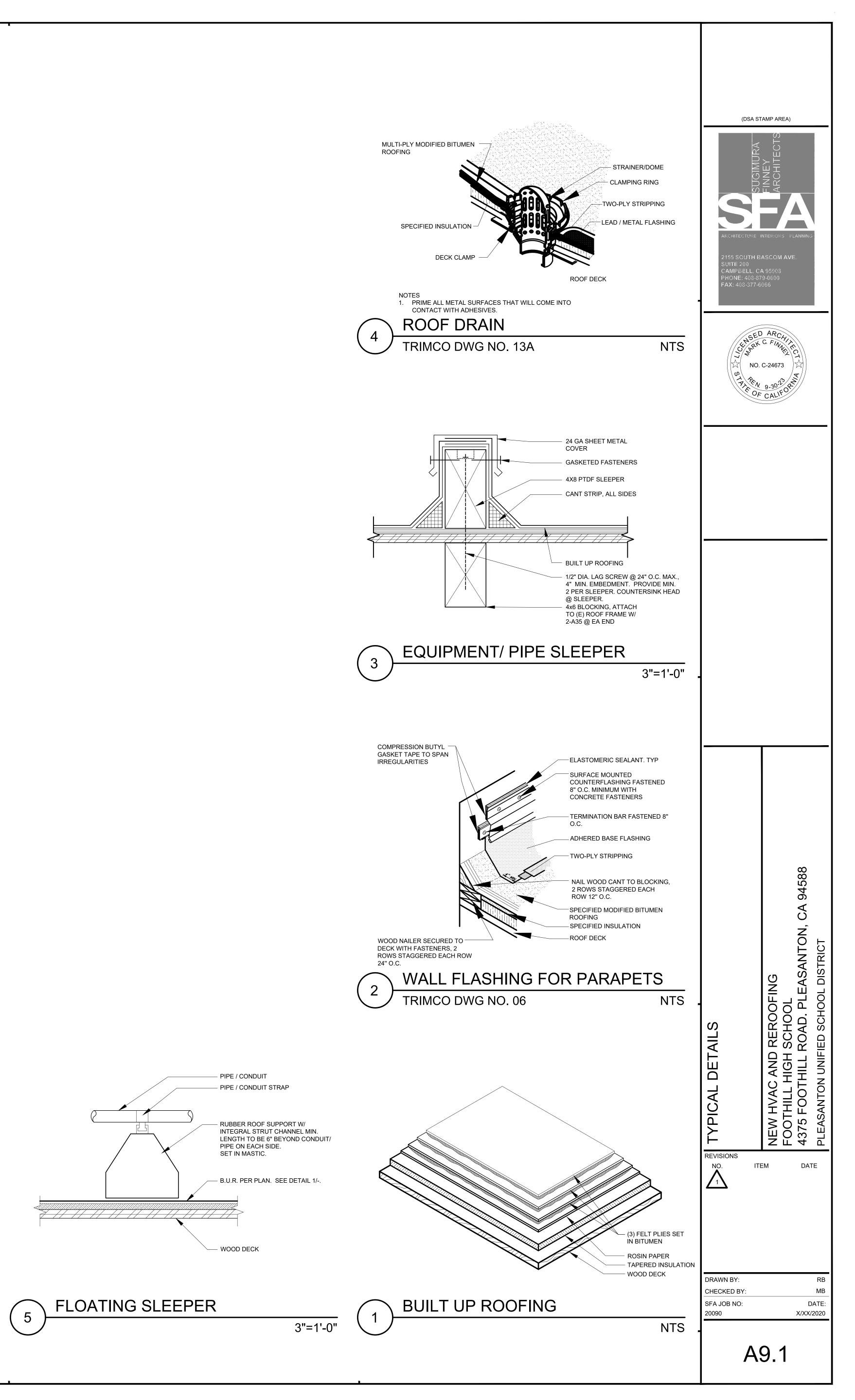






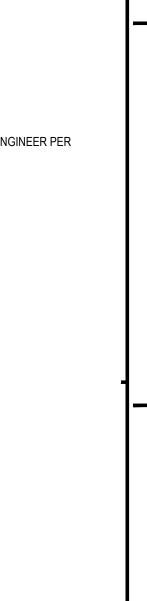
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ALL MECHANICAL, PLUMB DOCUMENTS. THE FOLLO 2019 CBC, SECTIONS 1617 1. ALL PERMANENT EQ 2. TEMPORARY, MOVAI ELECTRICITY, GAS C HAVING A FLEXIBLE 3. TEMPORARY, MOVAI ADJACENT FLOOR O THE FOLLOWING MECHAN COMPLIANCE WITH THE R ASSOCIATED DUCTWORK A. COMPONENTS WEIG THAT DIRECTLY SUP B. COMPONENTS WEIG FROM A ROOF OR FL THE ANCHORAGE OF ALL GENERAL RESPONSIBLE (THAT ALL COMPONENTS /
PIPING, DUCTWORK, AND SECTION 13.3 AS DEFINED THE METHOD OF SHOWIN AND ATTACHMENTS ARE INSTALLATION GUIDE OR SYSTEMS. THE STRUCTUF MECHANICAL PIPING (MP) MP MD PP MP MD PP

ABBREVIATIONS EQUIP EQUIPMENT EOUP EQUIPMENT EOUP EXTERNAL STATIC PRESSURE EW ENTERING WATER EW ENTERING WATER TEMPERATURE EW ENTERING WATER TEMPERATURE EFFICIENCY EXT EXTERIOR FD FLOOR DRAIN FFE FINSHED FLOOR ELEVATION FLA FULL OAD AMPS FLEX FLEXIBLE AL FPM FEET PER MINUTE FS FLOOR SINK FT FEET FT HD FEET HEAD FTR FLUE THRU ROOF GA GAUGE GAL GALLON GFM GALLONS PER MINUTE HP HORSEPOWER HR HOUR HR LEAVING ART TEMPERATURE LAY E INVERT E INVERT ELEVATION IN INCH INV INVERT KW KILOWATTS KWH KILOWATT HOUR KC NOCHALLY PER HOUR MAADAL AR DAMPER OC OO GUT ELEVATION NOCP MAXIMUM OVERCURRENT PROTECT (N) NEW NOCP MAXIMUM OVERCURRENT PROTECT (N) NEW RECTANGULAR, ROUND OR OVAL	PSI (G) (A) POUNDS PER SQUARE INCH (GA (ABSOLUTE) P/T PRESSURE/TEMPERATURE QTY QUANTITY RA RETURN AIR RAD RETURN AIR DAMPER RH RELATIVE HUMIDITY RL REFRIGERANT LIQUID RM ROOM RPM REVOLUTIONS PER MINUTE RS REFRIGERANT SUCTION RV RELIEF VALVE SA SUPPLY AIR SC SENSIBLE COOLING SEER SEASONAL ENERGY EFFICIENCY SD SMOKE DAMPER SM SHEET METAL SOV SHUT-OFF VALVE SP STATIC PRESSURE SPEC SPECIFICATION SQ SQUARE SQFT, FT ² SQUARE FEET SQIN, IN ² SQUARE INCHES STRUCT STRUCTURAL T THERMOSTAT, "X" INDICATES DE CONTROLLED. 48" AFF (TO TOP O TC TOTAL COOLING TDH TOTAL DYNAMIC HEAD TEMP TEMPERATURE THRU THROUGH TSP TOTAL STATIC PRESSURE TV TURNING VANES TYP TYPICAL UL UNDERWRITER'S LABORATORIES UON UNLESS OTHERWISE NOTED V VOLT CTION VFD VARIABLE FREQUENCY DRIVE VTR VENT THROUGH ROOF W WATTS W WITH WB WET BULB WC WATER COLUMN WH WATER HEATER WT WEIGHT E DOUBLE LINE SECTION AT SUPPLY AIR MAKE-UP AIR DUCT DOWN SECTION AIR DUCT UP SECTION AIR DUCT UP SECTION AIR DUCT UP	2019 CALFORMA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24, C.C.R. 2019 CALFORMA AREENADES STANDARDS CODE, PART 11, TITLE 24, C.C.R. TITLE 30, C.C.R., PUILL SMETTING LEADORTING COME, PART 11, TITLE 24, C.C.R. 1. ADDEDAL, CONSTRUCTION CHANGES PER SECTION 4.338. 2. INSPECTOR AND CENTRUCTION CHANGES PER SECTION 4.338. 3. RESCUE INSPECTOR AND CONTINUOUS INSPECTION OF WORK PER SECTION 4.338. 4. SPECUL INSPECTOR PER SECTION 4.336. 5. CONTINUOUS INSPECTION PER SECTION 4.337. 5. CONTINUOUS INSPECTION PER SECTION 4.338. 6. SPECUL INSPECTOR PER SECTION 4.338. 7. CONTRINUE CONSTITUTION PER SECTION 4.338. 8. SPECUL INSPECTOR PER SECTION 4.337. 7. CONTRINUE CONSTITUTION PER SECTION 4.338. 8. SPECUL INSPECTOR PER SECTION 4.338. 9. CONTRINUE CONSTITUE AND CONSTITUE AND CONSTITUE AND CAR. PER SECTION 4.338. 7. CONTRINUE CONSTITUE AND CONSTITUE AND CONSTITUE AND CAR. PER SECTION 4.338. 7. CONTRINUE CONSTITUE AND CONSTITUE AND CONSTITUE AND CAR. PER SECTION 4.338. 7. SUPERVISION BY THE DIVISION OF THE STATE OF CONTRIDUCTION PER SECTION 4.338. 8. SUPERVISION BY THE DIVISION OF THE STATE AND HELE AND HELE AND HELE DURING CONSTRUCTION. 9. STATI 9. SUPERVISION BY THE DIVISION OF THE STATE AND HELE AND HELE AND HELE DURING CONSTRUCTION. 9. SUPERVISION BY THE DIVISION OF THE STATE AND HELE AND HELE A
INE DESCRIPTION SINGLE LINE SYMBOL LONG SWEEP 90° ELBOW - RECTANGULAR, ROUND OR OVAL 45° ELBOW - RECTANGULAR, ROUND	SYMBOL SECTION AT SUPPLY AIR MAKE-UP AIR DUCT UP SECTION AT RETURN AIR COMBUSTION AIR DUCT UP SECTION AT EXHAUST AI RELIEF AIR DUCT UP SUPPLY AIR DUCT DOWN	 CON 1. CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMISSION OF FINAL BID TO VERIFY ALL EXISTING SITE CONDITIONS WHICH MAY AFFECT THE COMPLETION OF THE INSTALLATION. ALL METHODS AND REQUIREMENTS FOR INSTALLATION SHALL BE DETERMINED PRIOR TO BID DATE. CONTRACTOR SHALL NOTIFY T ARCHITECT/ENGINEER OF RECORD OF ANY REQUIRED MODIFICATIONS WHICH ARE NOT REFERENCED ON THESE PLANS PRIOR TO SUBMITTING BID. SUBMITTAL OF THE CONTRACTOR'S BID DEMONSTRATES THE CONTRACTOR'S AWARENESS OF ALL SITE CONDITIONS AND REQUIRED WORK TO BE PERFORMED. 2. CONTRACTOR SHALL INCLUDE AND PROVIDE IN BID ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE AND OPERATIONAL INSTALLATION OF ALL SYSTEMS. 3. THE DRAWINGS INCLUDED IN THIS SET ARE DIAGRAMMATIC. THEY ARE REPRESENTATIVE OF THE ENGINEER OF RECORD'S DESIGN INTENT FOR ALL
		N EQUIPMENT AND RELATED PIPING ETC. INDIVIDUAL POWER NEEDS, CONTROLS AND OTHER CONNECTIONS SHALL BE COORDINATED AND COMPLETED/ PROVIDED FOR COMPLETE SYSTEM OPERATION BY CONTRACTOR.
30° ELBOW - RECTANGULAR, ROUND OR OVAL 90° ELBOW - RECTANGULAR DUCT WITH TURNING VANES	RETURN AIR DUCT DOWN EXHAUST AIR DUCT DOWN EXHAUST AIR DUCT DOWN SUPPLY, RETURN OR EXI ROUND DUCT DOWN - SUPPLY, RETURN OR EXI CEILING DIFFUSER - ONE, TWO, THREE AND F WAY THROW	 INSTALL ALL EQUIPMENT AND ROUTE PIPING IN LOCATIONS WHICH MEET CODE REQUIREMENTS AND DO NOT INTERFERE WITH ANY BUILDING STRUCTURES UTILITIES, OR OTHER TRADE EQUIPMENT. (E) DUCTWORK AND ITEMS TO BE REMOVED ARE SHOWN HATCHED. SEE LEGEND. COORDINATE CLOSELY WITH (N) DUCTWORK AND P.O.C.'S SHOWN. ALL OTHER (E) DUCTWORK, ETC. TO REMAIN. ALL EQUIPMENT, EQUIPMENT CONNECTIONS, PIPING, MOUNTING LOCATIONS ETC. ARE TO BE VERIFIED WITH OWNER'S REPRESENTATIVE AND EQUIPMENT SUPPLIER PRIOR TO BEGINNING OF THE ROUGH-IN. ALL WORK SHALL BE PERFORMED TO STATE, LOCAL, NATIONAL AND DISTRICT STANDARDS AND CODES. COORDINATE SPECIFIC REQUIREMENTS WITH DISTRICT STANDARDS AND AUTHORITY HAVING JURISDICTION. ALL EQUIPMENT SHALL BE NEW AND CLEARLY LABELED AND IDENTIFIED. LABELS SHALL NOT BE COVERED BY OTHER CONSTRUCTION ELEMENTS.
45° LATERAL - ROUND TO ROUND OR OVAL TO OVAL 90° TAKEOFF WITH 45° TAPER - RECTANGULAR TO RECTANGULAR (FOR BRANCH TAKEOFF LONGER THAN 50'-0", USE 15)	CEILING - RETURN AND EXHAUST REGISTERS SIDEWALL - SUPPLY DIFF RETURN AND EXHAUST REGISTERS	 OF SYSTEMS. ANY PENETRATIONS OR OPENINGS MADE IN WALLS OR STRUCTURES SHALL BE PATCHED AND/OR SEALED AS REQUIRED TO MAINTAIN THE INTEGRITY OF THE WALL OR STRUCTURE. 8. CONTRACTOR IS RESPONSIBLE FOR COMPLETING ALL FINAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT AND SHALL INCLUDE THE PRICE OF INSTALLING ALL CONNECTIONS AS REQUIRED IN THEIR BIDS. 9. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE APPROVAL OF THE ENGINEER OF RECORD . ALL APPROVALS BY THE ENGINEER OF RECORD MUST SECURED PRIOR TO COMPLETION OF ANY PURCHASE ORDERS OR ROUGH-IN WORK
90° TAKEOFF WITH 45°		 AT THE COMPLETION OF THE PROJECT THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A COMPLETE SET OF AS-BUILT DRAWINGS. ANY AND ALL WORK THAT REQUIRES AN INTERRUPTION TO BUILDING SERVICES(S) (ELECTRICAL/ HVAC/ PLUMBING ETC.) MUST BE COORDINATED WITH THE PROJECT A MINIMUM OF AS UPUPED IN ADVANCE. ANY SERVICES POWNTIME SUM UNDER SCHOOL OPERATION. UPUPED
ELONGATED TEE - ROUND TO ROUND Image: Comparison of the second	MOTORIZED BALANCE DA MOTORIZED BALANCE DA WITH DUCT ACCESS DOC WITH DUCT ACCESS DOC	 IN INSTANCES WHERE A CONFLICT BETWEEN THE DRAWINGS AND THE SPECIFICATIONS AND INSTALLATION MANUALS FOR THE PROJECT EXISTS, THE CONTRACTOR SHALL ADHERE TO THE MORE STRINGENT REQUIREMENT. IN INSTANCES WHERE A CONFLICT BETWEEN THE DRAWINGS AND THE SPECIFICATIONS AND INSTALLATION MANUALS FOR THE PROJECT EXISTS, THE CONTRACTOR SHALL ADHERE TO THE MORE STRINGENT REQUIREMENT. ANY EXISTING BUILDING STRUCTURES OR SURFACES DAMAGED BY DEMOLITION OR DURING INSTALLATION ACTIVITIES SHALL BE REPAIRED, PATCHED, AND/OR REFINISHED TO THE SATISFACTION OF THE OWNER. FURNISH AND INSTALL MANUAL AIR DAMPERS AT ALL DUCT BRANCH TAKEOFFS TO A SINGLE SUPPLY DIFFUSER. FOR ALL VOLUME DAMPERS LOCATED ABOVE CEILINGS, PROVIDE 12" LONG 1/2" WIDE FLUORESCENT ORANGE TAPE TO MARK DAMPER LOCATIONS. ALL DUCTWORK, CONDUITS, BOXES, SURFACE MOUNTED RACEWAYS, SUPPORT DEVICES, AND ASSOCIATED FITTINGS SHALL BE MOUNTED IN CONCEALED
RECTANGULAR DUCT, PROVIDE SPLITTER DAMPER, X/Y PROPORTIONAL SPLIT 90° RECTANGULAR SPLIT - RECTANGULAR DUCT, PROVIDE 24 x 12		 THE ADJACENT SURFACES OR PER ARCHITECT'S DIRECTION. 18. CONTRACTOR SHALL PREPARE AND SUBMIT THE CALIFORNIA ENERGY COMMISSION TITLE 24 CERTIFICATE OF ACCEPTANCE FORMS RELATED TO INSTALLI EQUIPMENT AND SYSTEMS. 19. SAFETY: IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
TRANSITION - RECTANGULAR TO ROUND OR RECTANGULAR TO OVAL	12x12 CD-1 REGISTER NECK SIZE AN 300 DESIGN CFM PANEL AT T-BAR CEILING	22. CONSTRUCTION SCHEDULING: CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH OWNER'S REPRESENTATIVE PRIOR TO SCHEDULING AND START OF THE WORK. CONTRACTOR SHALL PROVIDE PROTECTION TO ALL EXISTING SPACES AND SYSTEMS WHICH ARE IN USE, ADJOIN THE PROJECT, AND NOT PART OF THE PROJECT.
IDENTIFICATION SYMBOL CAP	P.O.C. POINT OF CONNECTION REMOVE EXISTING TEE DOWN	DN DRAWING INDEX MP0.1 SYMBOL LEGENDS, ABBREVIATIONS, NOTES - MECHANICAL & PLUMBING MP0.2 SCHEDULES-MECHANICAL & PLUMBING. MP3.2 BUILDING F - DEMOLITION ROOF PLAN - MECHANICAL & PLUMBING MP3.5 BUILDING G - DEMOLITION NOOF PLAN - MECHANICAL & PLUMBING MP3.5 BUILDING G - NEW ROOF PLAN - MECHANICAL & PLUMBING MP3.5 BUILDING G - NEW ROOF PLAN - MECHANICAL & PLUMBING MP3.6 BUILDING G - NEW ROOF PLAN - MECHANICAL & PLUMBING MP3.6 BUILDING G - NEW ROOF PLAN - MECHANICAL & PLUMBING MP3.6 BUILDING G - NEW ROOF PLAN - MECHANICAL & PLUMBING MP3.6 BUILDING G - NEW ROOF PLAN - MECHANICAL / TAB WORK MP7.1 BLDG F - EXISTING FLOOR PLANS - MECHANICAL / TAB WORK MP3.2 TITLE 24 - PLUMBING MP8.2 TITLE 24 - PLUMBING
	NOUND OR OVAL DUCT 1 90° RADIUS SPLIT - RECTANGULAR DUCT, PROVIDE SPLITTER DAMPER, XY PROPORTIONAL SPLIT FSD OR SPLITER DAMPER, XY 90° RECTANGULAR SPLIT - RECTANGULAR DUCT, PROVIDE SPLITTER DAMPER, XY PROPORTIONAL SPLIT 24 × 12 1 TRANSITION - RECTANGULAR TO ROUND OR RECTANGULAR TO ROUND OR RECTANGULAR TO OVAL 24 × 12 1 FLEXIBLE DUCT - ROUND FLEXIBLE DUCT - RECTANGULAR - 1 FLEXIBLE DUCT - RECTANGULAR - 1 FLEXIBLE DUCT - RECTANGULAR - 1 CAP • CAP • CAP • CONTINUATION • UNION • LINE BREAK • CHECK VALVE ÉC VALVE CONCENTRIC & ECCENTRIC REDUCERS	NOUND OR OVAL DUCT WITH DUCT ACCESS DOR 90° RADIUS SPLIT- RECTANGULAR SPLIT- PROPORTIONAL SPLIT FISD OR F/D FIRE DAMPER WITH DUC ACCESS DOOR 90° RECTANGULAR SPLIT- RECTANGULAR DUCT, PROVIDE SPLITTER DAMPER, XY PROPORTIONAL SPLIT 24 x 12 ACOUSTICALLY LINED DI DIMENSIONS ARE INSIDE 12x12 CD-1 PROPORTIONAL SPLIT 12x12 CD-1 DIMENSIONS ARE INSIDE DESIGN CFM 12x12 CD-1 PROPORTIONAL SPLIT 12x12 CD-1 DIMENSIONS ARE INSIDE DESIGN CFM 12x12 CD-1 PROPORTIONAL SPLIT 12x12 CD-1 DIMENSIONS ARE INSIDE DESIGN CFM 12x12 CD-1 PROPORTIONAL SPLIT 12x12 CD-1 DESIGN CFM REGISTER NECK SIZE AN DESIGN CFM 12x12 CD-1 PROPORTIONAL SPLIT 12x12 CD-1 DESIGN CFM NEGISTER NECK SIZE AN DESIGN CFM 12x12 CD-1 PROPORTIONAL SPLIT 12x12 CD-1 DESIGN CFM NEGISTER NECK SIZE AN DESIGN CFM 12x12 CD-1 PROPORTIONAL SPLIT 12x12 CD-1 DESIGN CFM NEGISTER NECK SIZE AN DESIGN CFM 12x12 CD-1 PROPORTIONAL SPLIT 12x12 CD-1 DESIGN CFM NEGISTER NECK SIZE AN DESIGN CFM 12x12 CD-1 PROPORTIONAL SPLIT 12x12 CD-1 DESIGN CFM NEGISTER NECK SIZE AN DESIGN CFM 12x12 CD-1 PROPORTION SYMBOL ABBRV. IDENTIFICATION 12x12 CD-1 PROPORTION SYMBOL ABBRV. IDENTIFICATION 12x12 CD-1 PROPORTION SYMBOL ABBRV. IDENTIFICATION 12x12 CD-1 PROPORTION



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					PACKA	GED ROO	FTOP AIR	CONDITI	ONING U	NITS SO	CHEDULE	BLD-F	
тао			COOLII	NG MBH	GAS HEA	TING MBH	AIRFLOW	ESP	OUTSIDE	FAN	MOTOR	0EED	AFUE % 81 81 81
TAG	MANUFACTURER	MODEL NO.	TOTAL	SENSIBLE	INPUT	OUTPUT	CFM	IN. W.G.	AIR CFM	RPM	CHEDULE BLD-F MOTOR BHP SEER 1.12 15 1.12 15 0.5 15	SEER	%
AC-F-1	TRANE	YHC060	61	45.58	60	49	2000	1.0	-	1157	1.12	15	81
AC-F-2	TRANE	YHC060	61	45.58	60	49	2000	1.0	-	1157	1.12	15	81
AC-F-3	TRANE	4YCY5024	23.8	-	60	48.6	815	1.0	-	810	0.5	15	81
AC-F-4	TRANE	YHC060	61	45.58	60	49	2000	1.0	-	1157	1.12	15	81

1. WEIGHT INCLUDES ALL OPTIONS AND ACCESSORIES. 2. PROVIDE WITH LOW LEAK ECONOMIZER DRY BULB 0-100% WITH BAROMETRIC RELIEF. 3. PROVIDE WITH LOUVERED HAIL GUARDS, UNPOWERED CONVENIENCE OUTLET, AND HINGED ACCESS PANELS. 6. VERTICAL DISCHARGE CONFIGURATION. 7. PROVIDE FLAT FLANGED CURB ADAPTOR. CONTRACTOR SHALL FIELD VERIFY DIMENSION PRIOR TO ORDERING.

4. PROVIDE WITH 2" MERV 13 FILTERS.

8. PROVIDE MANUAL FRESH AIR HOOD WITH BIRDSCREEN.

5. PROVIDE PELICAN WIRELESS PEARL ECONOMIZER CONTROLLER. CONTROLLER TO BE FIELD INSTALLED. COORDINATE WITH MANUFACTURER.

TAG	MANUFACTURER	MODEL NO.	AIRFLOW CFM	ESP IN. W.G.	FAN RPM	SOUND POWER SONES	MOTO		WEIGHT LBS	MOUNTING DETAIL	NOTES
			CFIVI	IN. W.G.		SUNES	HP	V / PH	LBS	DETAIL	
EF-1	GREENHECK	G-070-VG	200	0.375	1573	4.6	1 / 15	115 / 1	37	5/MP0.2	1, 2, 3, 4, 5
EF-2	GREENHECK	G-060-VG	75	0.25	1382	2.8	1 / 15	1 / 15 115 / 1 36 5/MP0.2		1, 2, 3, 4	
EF-3	GREENHECK	G-100-VG	800	0.5	1308	6.7 1 / 4 115 / 1 58 5/MP0.2		5/MP0.2	1, 2, 3, 4		
EF-4	GREENHECK	G-090-VG	300	0.375	1232	5.2	1 / 10	115 / 1	44 5/MP0.2		1, 2, 3, 4
EF-5	GREENHECK	G-100-VG	800	0.5	1308	6.7	1/4	115 / 1	58	5/MP0.2	1, 2, 3, 4
EF-6	GREENHECK	G-060-VG	100	0.25	1474	3.3	1 / 15	115/1	36	5/MP0.2	1, 2, 3, 4
EF-7	GREENHECK	G-060-VG	75	0.25	1382	2.8	1 / 15	115/1	36	5/MP0.2	1, 2, 3, 4
EF-8	GREENHECK	G-140-VG	1000	0.5	930	6.4	1/2	115/1	76	5/MP0.2	1, 2, 3, 4
EF-9	GREENHECK	G-140-VG	1000	0.5	930	6.4	1/2	115/1	76	5/MP0.2	1, 2, 3, 4
EF-10	GREENHECK	G-060-VG	75	0.25	1382	2.8	1 / 15	115/1	36	5/MP0.2	1, 2, 3, 4
EF-11	GREENHECK	G-060-VG	100	0.25	1474	3.3	1 / 15	115 / 1	36	5/MP0.2	1, 2, 3, 4
EF-12	GREENHECK	G-100-VG	500	0.375	1009	3.7	1/4	115 / 1	58	5/MP0.2	1, 2, 3, 4
EF-13	GREENHECK	G-100-VG	500	0.375	1009	3.7	1/4	115 / 1	58	5/MP0.2	1, 2, 3, 4
EF-14	GREENHECK	G-100-VG	500	0.375	1009	3.7	1/4	115/1	58	5/MP0.2	1, 2, 3, 4
EF-15	GREENHECK	G-090-VG	300	0.375	1232	5.2	1 / 10	115 / 1	44	5/MP0.2	1, 2, 3, 4, 5
EF-16	GREENHECK	G-100-VG	500	0.375	1009	3.7	1 / 4	115 / 1	58	5/MP0.2	1, 2, 3, 4
EF-17	GREENHECK	G-100-VG	500	0.375	1009	3.7	1 / 4	115 / 1	58	5/MP0.2	1, 2, 3, 4
EF-18	GREENHECK	G-060-VG	100	0.25	1474	3.3	1 / 15	115 / 1	36	5/MP0.2	1, 2, 3, 4
EF-19	GREENHECK	G-060-VG	100	0.25	1474	3.3	1 / 15	115 / 1	36	5/MP0.2	1, 2, 3, 4
EF-20	GREENHECK	G-060-VG	100	0.25	1474	3.3	1 / 15	115 / 1	36	5/MP0.2	1, 2, 3, 4
EF-21	GREENHECK	G-100-VG	500	0.375	1009	3.7	1 / 4	115 / 1	58	5/MP0.2	1, 2, 3, 4, 6
EF-22	GREENHECK	G-070-VG	200	0.375	1573	4.6	1 / 15	115 / 1	37	5/MP0.2	1, 2, 3, 4, 5
EF-24	GREENHECK	GB-240-5	3400	0.375	530	6.9	1/2	115 / 1	150	5/MP0.2	1, 2, 3, 4
EF-25	GREENHECK	GB-240-5	3400	0.375	530	6.9	1/2	115/1	150	5/MP0.2	1, 2, 3, 4

 PROVIDE WITH ROOF CURB TO MATCH EXISTING OPENING. PROVIDE CURB CAP ADAPTER OR REDUCER AS REQUIRED. 2. PROVIDE WITH BACK DRAFT DAMPER AND BIRD SCREEN.

3. INTERCONNECT EXHAUST FAN WITH LIGHTS. 4. WEIGHT INCLUDES ACCESSORIES AND CURB.

 EXHAUST FAN TO BE CONTROLLED BY A LINE VOLTAGE (E) T-STAT SET TO START THE FAN AT 80⁰ F AND SHUT DOWN AT 70⁰ F. 6. FAN TO BE INTERLOCKED WITH UNIT AC-F-3

E	LECTRICA	L	WEIGHT	MOUNTING	NOTES
V / PH	MCA	MOCP	LBS	DETAIL	
460 / 3	12	15	922	2/MP0.2	1, 2, 3, 4, 5, 6, 7
460 / 3	12	15	922	2/MP0.2	1, 2, 3, 4, 5, 6
208 / 1	25	25	355	2/MP0.2	1, 3, 4, 5, 6, 8
460 / 3	12	15	922	2/MP0.2	1, 2, 3, 4, 5, 6, 7

			COOL	ING MBH	GAS HEA	TING MBH	AIRFLOW	ESP		OUTSIDE FAN AIR CFM RPM		ello	AFUE %	ELECTRICAL			WEIGHT	CURB	MOUNTING	
TAG	MANUFACTURER	MODEL NO.	TOTAL	SENSIBLE	INPUT	OUTPUT	CFM	IN. W.G.	AIR CFM					V / PH	MCA	MOCP	LBS	ADAPTER	DETAIL	NOTES
AC-G-1	CARRIER	48GCDM06	63	48.32	50 67	40 54	2000	1.0	-	2396	1.48	16.1	81	460 / 3	16	20	866	MICROMETL	1/MP0.2	1, 2, 3, 4, 5,6, 7
AC-G-2	CARRIER	48GCDM06	63	48.32	50 67	40 54	2000	1.0	-	2396	1.48	16.1	81	460 / 3	16	20	866	MICROMETL	1/MP0.2	1, 2, 3, 4, 5, 6, 7
AC-G-3	CARRIER	48GCDM06	63	48.32	50 67	40 54	2000	1.0	-	2396	1.48	16.1	81	460 / 3	16	20	866	MICROMETL	1/MP0.2	1, 2, 3, 4, 5, 6, 7
AC-G-4	CARRIER	48GCDM06	63	48.32	50 67	40 54	2000	1.0	-	2396	1.48	16.1	81	460 / 3	16	20	866	MICROMETL	1/MP0.2	1, 2, 3, 4, 5, 6, 7
AC-G-5	CARRIER	48GCDM06	63	48.32	50 67	40 54	2000	1.0	-	2396	1.48	16.1	81	460 / 3	16	20	866	MICROMETL	1/MP0.2	1, 2, 3, 4, 5, 6, 7
AC-G-6	CARRIER	48GCDM06	63	48.32	50 67	40 54	2000	1.0	-	2396	1.48	16.1	81	460 / 3	16	20	866	MICROMETL	1/MP0.2	1, 2, 3, 4, 5, 6, 7
AC-G-7	CARRIER	48VGNE24	23.18	18.41	40	33	859	0.7	-	1050	0.36	15	81	208 /1	19.4	30	455	MICROMETL	1/MP0.2	1, 3, 4, 6, 8, 9
 PROV PROV PROV PROV 	HT INCLUDES ALL OPTIO IDE WITH TEMP ULTRA L IDE WITH LOUVERED HA IDE WITH 2" MERV 13 FIL IDE PELICAN WIRELESS	.OW LEAK ECONOMIZE IL GUARDS, UNPOWE .TERS.	ER WITH BARC RED CONVENI	ENCE OUTLET,	AND HINGE				 PROV DIMEN PROV 	ide with NSION PR Ide with	IOR TO ORDI	Ged Micron Er. Ged Micron	METL CA-C						LD FIELD VERIFY JLD FIELD VERIFY	

TAG	MANUFACTURER	M
EF-1	GREENHECK	C
CURB (2. PROVII	DE WITH ROOF CURB CAP ADAPTER OR REI DE WITH BACK DRAFT CONNECT EXHAUST F	DUCE DAM
TAG	MANUFACTURER	M
RH-1	GREENHECK	(
CURB	DE WITH ROOF CURB CAP ADAPTER OR REI DE WITH BACK DRAFT	DUCE

	GAS PRESSURE REGULATORS SCHEDULE BLD-G									
TAG	MANUFACTURER	MODEL NO.	LOCATION	MIN. CAPACITY CFH	INLET PRESSURE	OUTLET PRESSURE	ORIFICE SIZE	PIPE SIZE	SPRING NUMBER	NOTES
GPR-1	AMERICAN METER	1800C SERIES	ROOF SEE PLANS	300	2 PSI	7" WC	3/16"	3/4"	YELLOW 70017P044	

	(E) SITE PELICAN WIRELESS GATEWAY NEEDED FOR CONNECTIVITY.
	(E) PELICAN WIRELESS THERMOSTATS
	CONTRACTOR SHALL PROVIDE PELICA
	ROOFTOP PACKAGED UNITS:
1.	EACH UNIT SHALL BE CONTROLLED E FOR NETWORK SETTINGS, OCCUPAN
2.	PELICAN WIRELESS THERMOSTAT SH DISTRICT REPRESENTATIVE FOR IP A
3.	UNIT SHALL OPERATE UNDER ITS OW SETPOINT.
4.	PELICAN WIRELESS PEARL ECONOMI COOLING WHEN OUTSIDE AIR IS BELC TEMPERATURE (MINIMUM TEMPERAT
5.	PELICAN WIRELESS PEARL ECONOMI LEVEL RISES ABOVE 1000 PPM.
6.	UNIT SHALL OPERATE CONTINUOUSL
7.	MOTORIZED OUTSIDE AIR DAMPER SI CONTRACTOR SHALL DETERMINE DA
8.	WHEN UNIT IS OFF, OUTSIDE AIR DAM
	EXHAUST FANS:
1.	EACH FAN SHALL BE CONTROLLED B
2.	(E) FAN CONTROLS SHALL BE RECON

PELICAN CONTROLS AND SEQUENCE OF OPERATION

PROVIDE PELICAN WIRELESS PEARL ECONOMIZER CONTROLLER. CONTROLLER TO BE FIELD INSTALLED. COORDINATE WITH MANUFACTURER.
 DIMENSION PRIOR TO ORDER.
 PROVIDE WITH OUT-SIDE AIR HOOD WITH MOTORIZED DAMPER.

	ROOF EXHAUST FAN SCHEDULE BLD-G								
MODEL NO.	AIRFLOW	ESP	FAN	SOUND POWER	МОТО	R	WEIGHT	MOUNTING	NOTES
WODEL NO.	CFM	IN. W.G.	RPM	SONES	HP	V / PH	LBS	DETAIL	NOTES
G-100-VG	600	0.375	1066	4.4	1 / 4	115 / 1	42	5/MP0.2	1, 2, 3, 4, 5
ATCH EXISTING OPENING. PROVIDE 4. WEIGHT INCLUDES ACCESSORIES. R AS REQUIRED. 5. PROVIDE GREENHECK GPI ROOF CURB. PER AND BIRD SCREEN									

AMPER AND BIRD SCREEN. N WITH LIGHTS.

	R	OOF HOO	OD SCH	EDULE BLD-G						
MODEL NO.	AIRFLOW	ESP	FAN	SOUND POWER	МОТО	R	WEIGHT	MOUNTING	NOTES	
WODEL NO.	CFM	IN. W.G.	RPM	SONES	HP	V / PH	LBS	DETAIL	NOTES	_
GRSR-30	RELIEF	0.031	-	-	-	-	73	5/MP0.2	1, 2, 3, 4	
MATCH EXISTIN CER AS REQUIRI		. PROVIDE			IT INCLUDES A DE GREENHEC		-			

CER AS REQUIRED. AMPER AND BIRD SCREEN.

AY SHALL BE USED. CONTRACTOR SHALL PROVIDE ADDITIONAL REPEATERS IF

ATS SHALL BE RE-USED AND WIRED TO NEW UNITS.

LICAN WIRELESS SUPPLY AIR TEMPERATURE SENSOR AT ALL UNITS.

D BY PELICAN WIRELESS THERMOSTAT. COORDINATE WITH DISTRICT REPRESENTATIVE PANCY SCHEDULES, SETPOINTS, SETBACK, ETC.

F SHALL BE CONNECTED TO NEW WIRELESS GATEWAY ON CAMPUS. COORDINATE WITH IP ADDRESS AND NETWORK SETTINGS.

OWN INTERNAL SEQUENCE TO PROVIDE HEATING OR COOLING BASED ON ROOM

MIZER CONTROLLER SHALL MODULATE OUTSIDE AIR DAMPER TO PROVIDE FREE BELOW 75°F (HIGH TEMPERATURE LIMIT) AND OUTSIDE AIR TEMP IS 2°F BELOW ROOM RATURE DIFFERENTIAL).

DMIZER CONTROLLER SHALL MODULATE OUTSIDE AIR DAMPER OPEN IF ROOM CO2

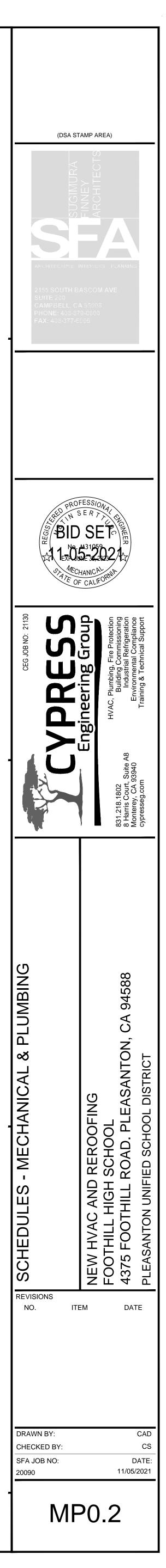
JSLY DURING SCHEDULED OCCUPIED HOURS.

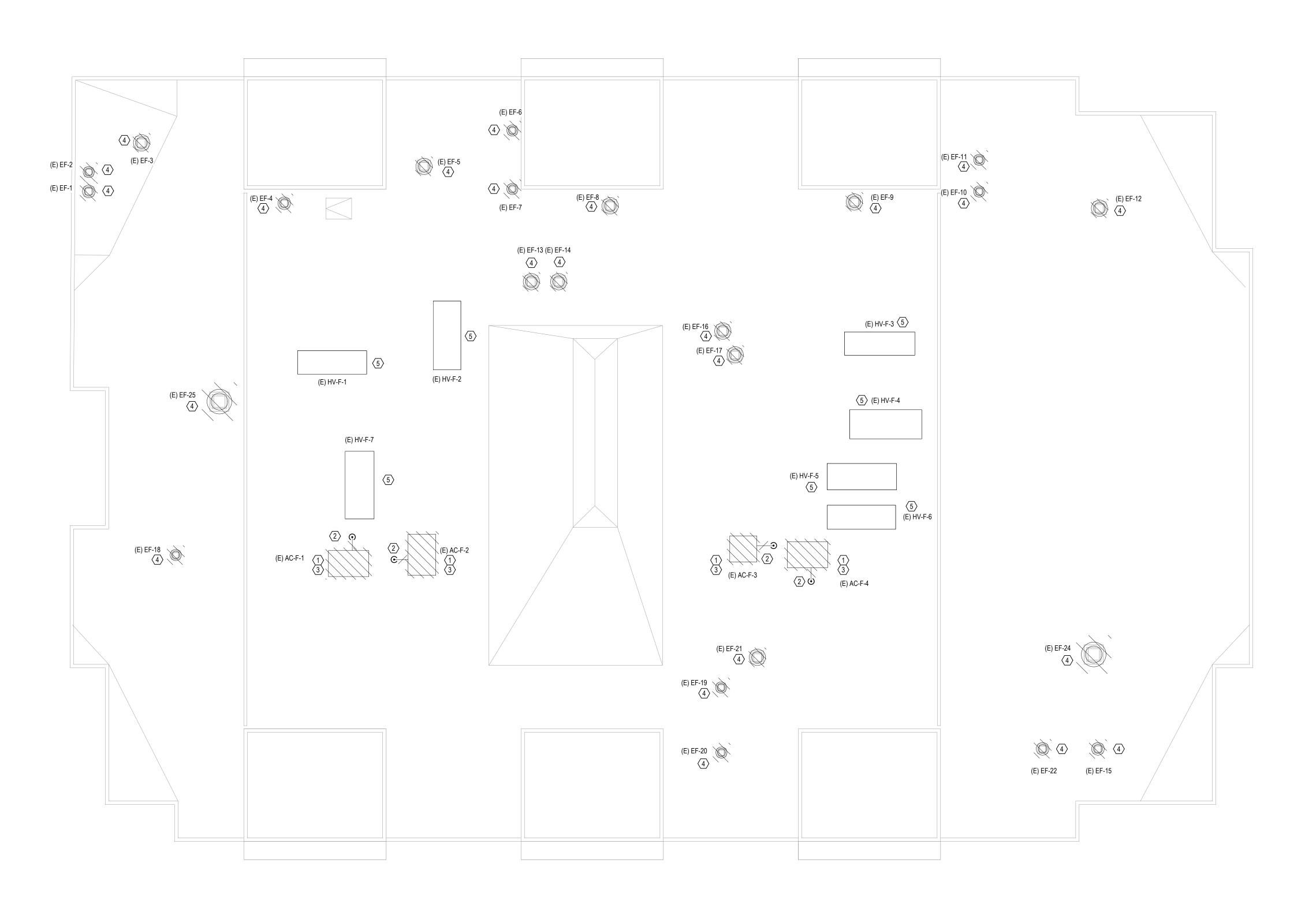
R SHALL OPEN TO MINIMUM POSITION WHEN UNIT IS OPERATING. BALANCE DAMPER SETPOINT.

AMPER SHALL BE CLOSED.

D BY ROOM LIGHTS/OCCUPANCY SENSOR.

ONNECTED TO NEW FANS.





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(#) DEMOLITION SHEET NOTES

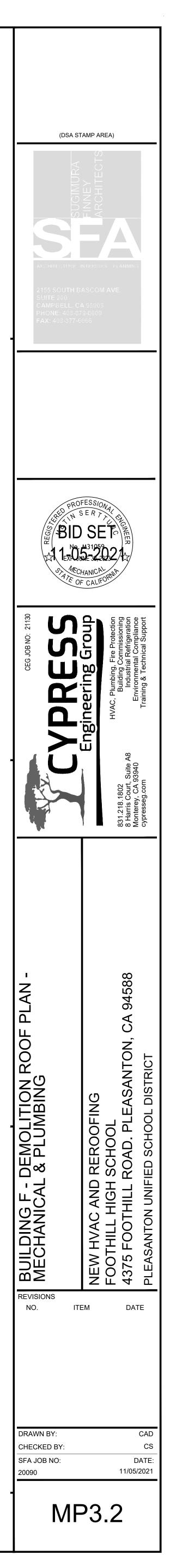
1. REMOVE (E) AC UNIT. REMOVE (E) ROOF CURB. PRESERVE ROOF OPENING FOR NEW AC UNIT.

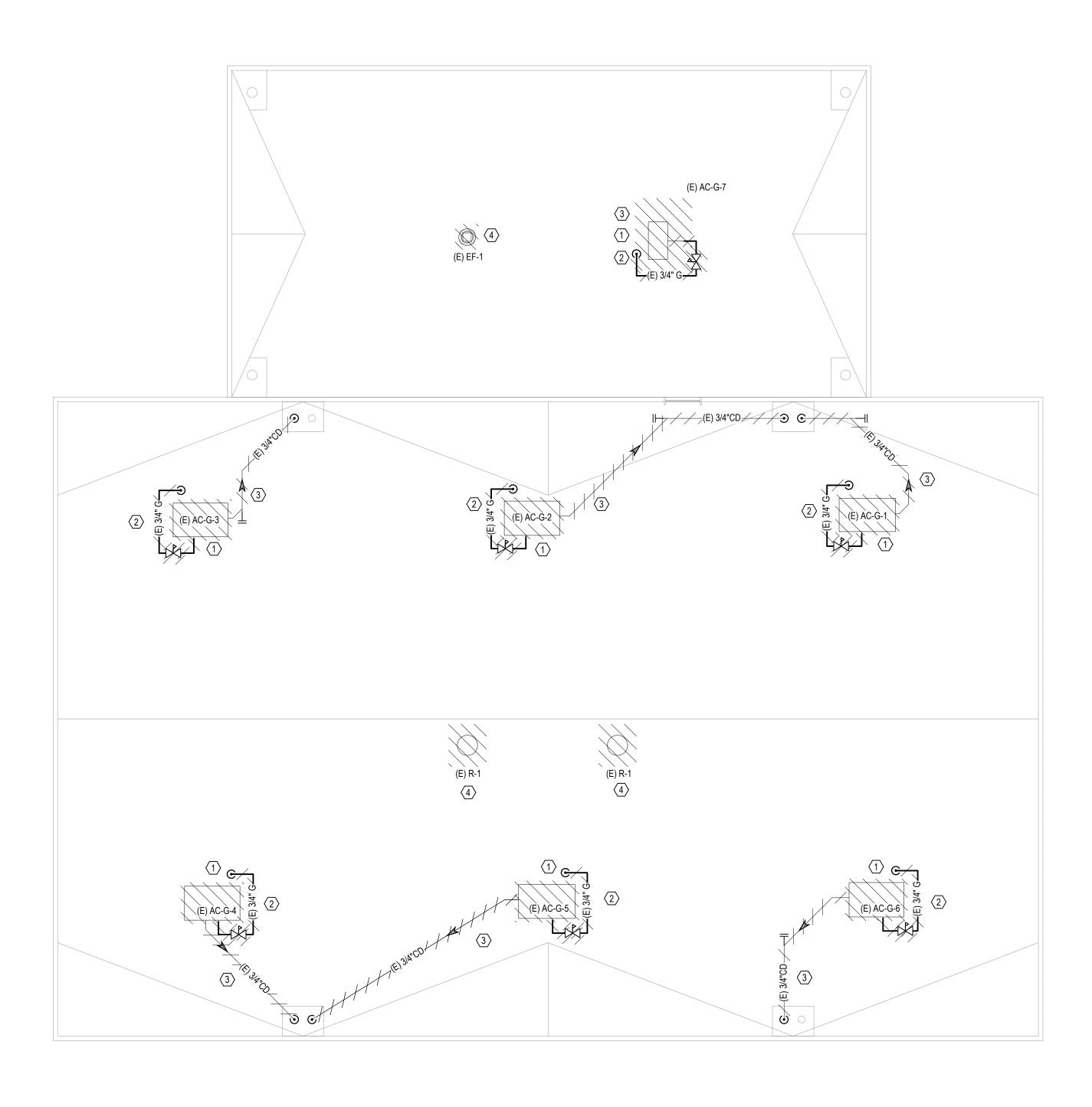
- 2. REMOVE (E) GAS PIPING ON ROOF. PROTECT ROOF OPENING FOR NEW GAS PIPING CONNECTION TO NEW AC U
- 3. REMOVE (E) CD PIPING ON ROOF.

4. REMOVE (E) ROOF EXHAUST FAN. REMOVE (E) ROOF CURB. PRESERVE ROOF OPENING FOR NEW ROOF EXHAUS FAN UNIT

5. (E) HV UNITS TO REMAIN.

		GENERAL NOTES
AC UNIT.	1.	CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING AND NEW BUILDING STRUCTURES, SERVICES AND OWNER'S PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION.
CONT.	2.	COORDINATE THE LOCATIONS OF ROOF/ WALL OPENINGS, PENETRATIONS, DUCTWORK AND ALL MECHANICAL EQUIPMENT WITH RESPECT TO BUILDING STRUCTURE AND OTHER BUILDING SERVICES TO AVOID CONFLICT.
AUST	3.	CONTRACTOR SHALL CONNECT (E) PELICAN THERMOSTATS TO NEW UNITS AND PELICAN ECONOMIZER CONTROLLER.
	4.	CONTRACTOR TO VERIFY ALL EXISTING CURB DIMENSIONS BEFORE SUBMITTAL PROCESS / ORDERING EQUIPMENT AND PROVIDE CURB ADAPTERS AS REQUIRED.
	5.	ALL PLUMBING VENTS TO STAY IN PLACE. EXTEND VENTS ABOVE NEW ROOF LEVEL WHERE REQUIRED.



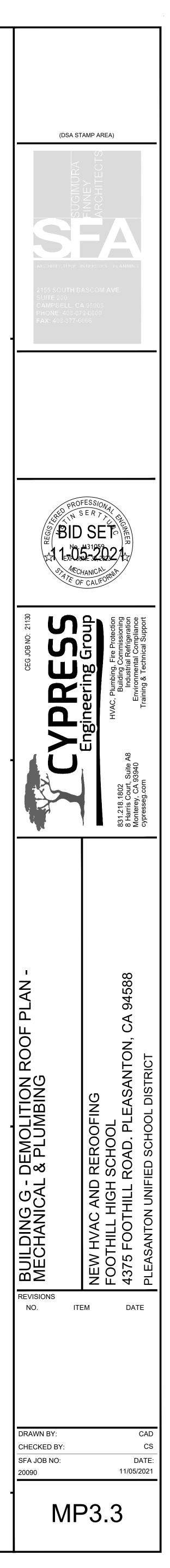


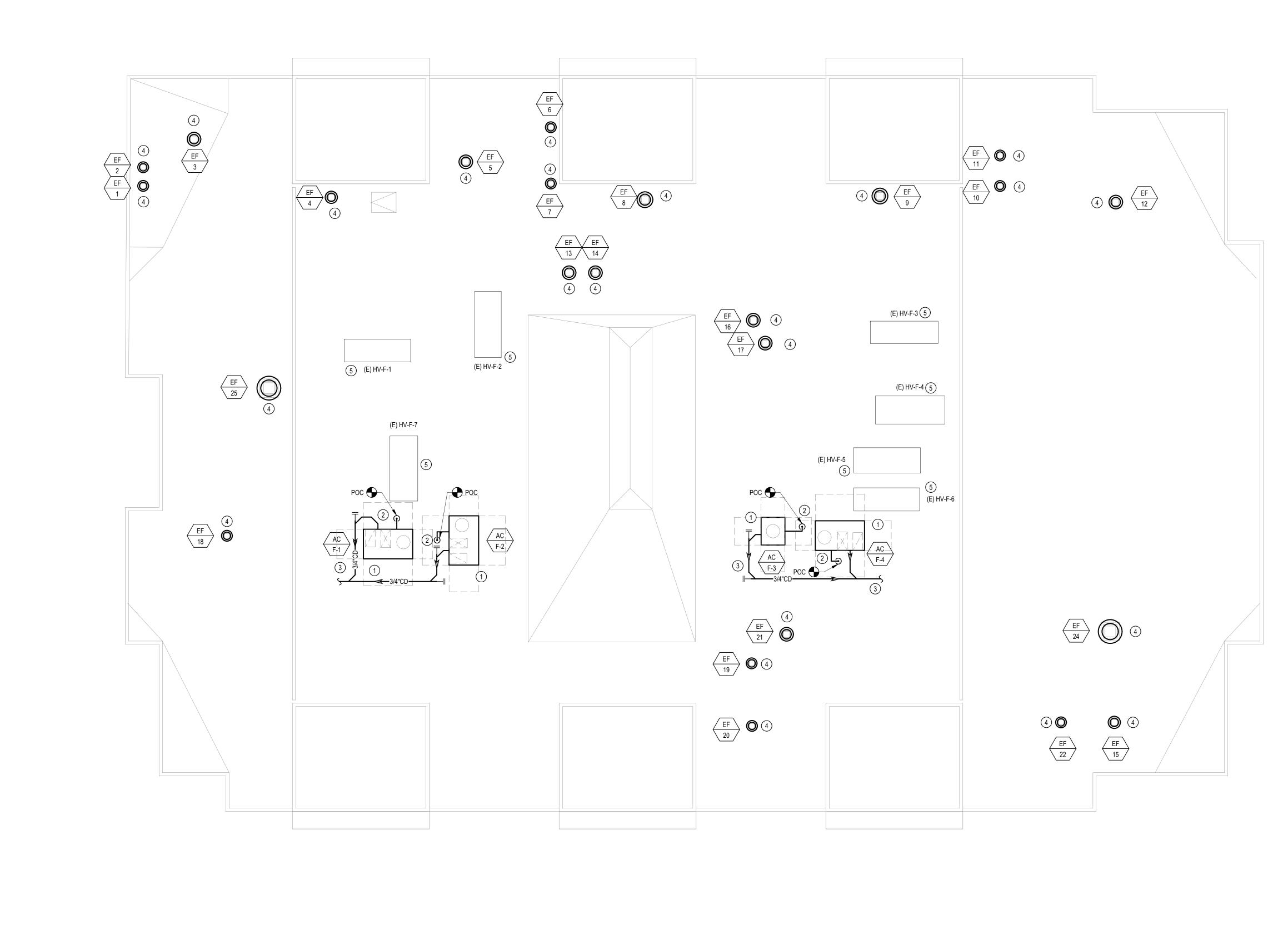


(#) DEMOLITION SHEET NOTES

- REMOVE (E) AC UNIT. REMOVE (E) ROOF CURB. PRESERVE ROOF OPENING FOR NEW AC UNIT.
 REMOVE (E) GAS PIPING ON ROOF. REMOVE (E) GPR ON ROOF. PROTECT ROOF OPENING FOR NEW GAS PIPING
- CONNECTION TO NEW AC UNIT.
- 3. REMOVE (E) CD PIPING ON ROOF. CAP PIPING GOING THRU ROOF.
- 4. REMOVE (E) ROOF EXHAUST FAN. REMOVE (E) ROOF CURB. PRESERVE ROOF OPENING FOR NEW ROOF EXHAUST F UNIT
- 5. REMOVE (E) RELIEF VENT. REMOVE (E) ROOF CURB. PRESERVE ROOF OPENING FOR NEW RELIEF HOOD.

		GENERAL NOTES
G	1.	CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING AND NEW BUILDING STRUCTURES, SERVICES AND OWNER'S PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION.
G	2.	COORDINATE THE LOCATIONS OF ROOF/ WALL OPENINGS, PENETRATIONS, DUCTWORK AND ALL MECHANICAL EQUIPMENT WITH RESPECT TO BUILDING STRUCTURE AND OTHER BUILDING SERVICES TO AVOID CONFLICT.
ST FAN	3.	CONTRACTOR SHALL CONNECT (E) PELICAN THERMOSTATS TO NEW UNITS AND PELICAN ECONOMIZER CONTROLLER.
	4.	CONTRACTOR TO VERIFY ALL EXISTING CURB DIMENSIONS BEFORE SUBMITTAL PROCESS / ORDERING EQUIPMENT AND PROVIDE CURB ADAPTERS AS REQUIRED.
	5.	ALL PLUMBING VENTS TO STAY IN PLACE. EXTEND VENTS ABOVE NEW ROOF LEVEL WHERE REQUIRED.
	6.	PLANS ARE DRAWN FROM AVAILABLE RECORD DRAWINGS AND LIMITED FIELD VERIFICATION. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND MAKE ADJUSTMENTS PRIOR TO ORDERING/FABRICATION.



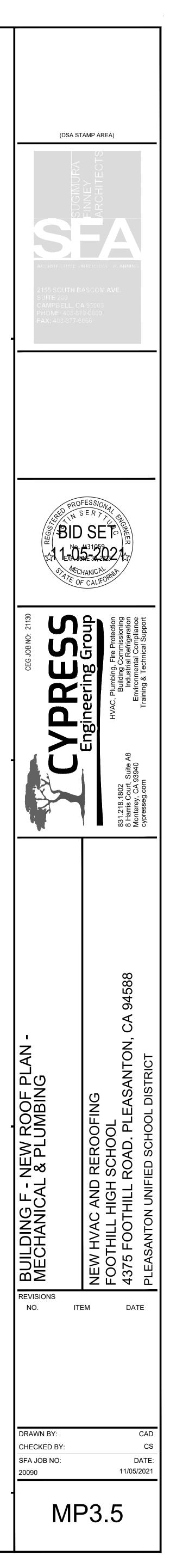


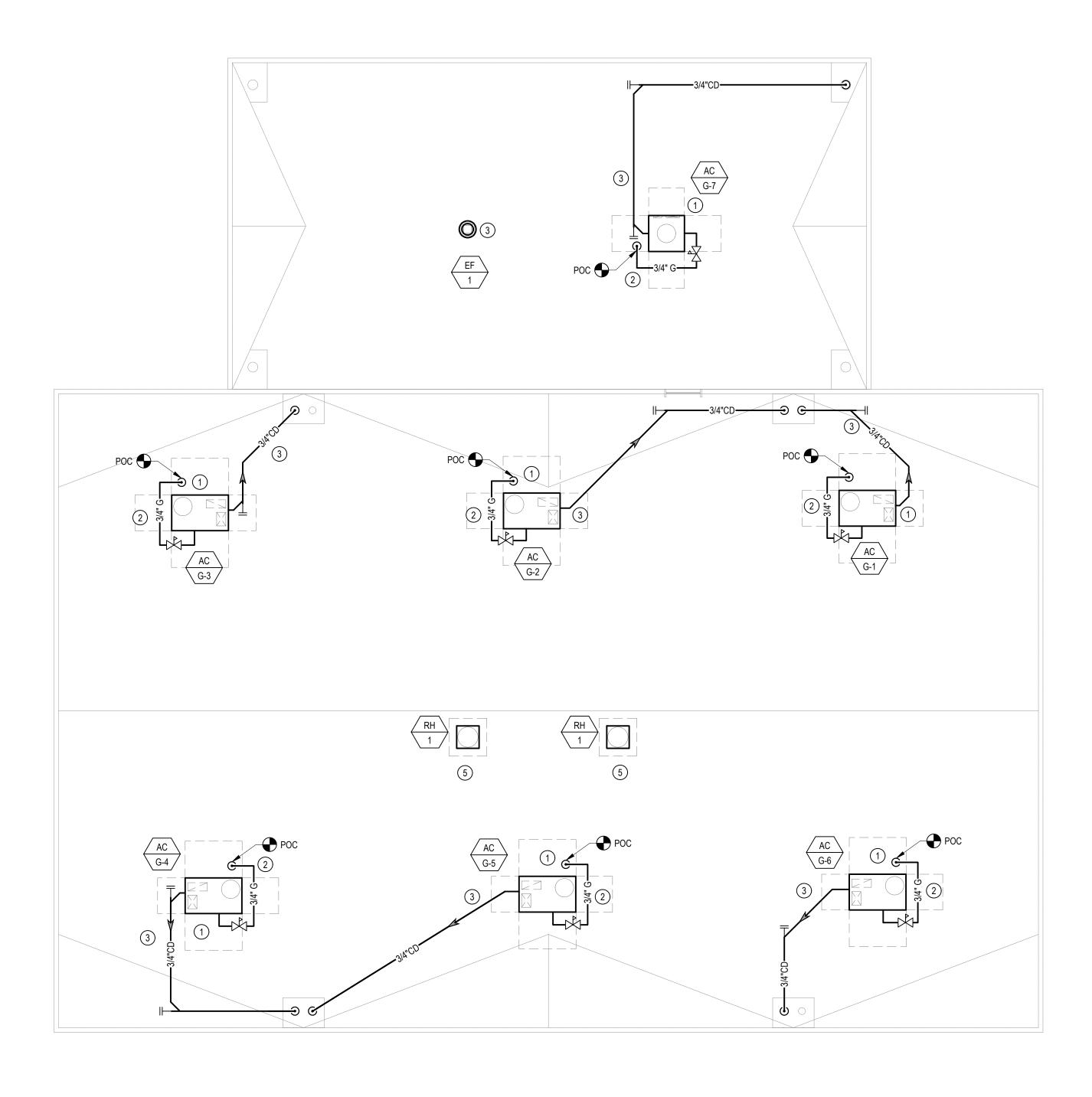


(#) NEW SHEET NOTES

- 1. INSTALL NEW AC UNIT ON NEW ROOF CURB. ENSURE CORRECT UNIT ORIENTATION .
- INSTALL NEW GAS PIPING WITH SHUTOFF VALVE, DIRT LEG, AND FLEX CONNECTION AT NEW AC UNIT. NEW GA PIPE SIZE TO MATCH SIZE OF EXISTING PIPE AT POC. CONNECT GAS PIPING TO AC UNIT PER DETAIL 3/MP6.1.FC PIPE SUPPORT SEE DETAIL 4/MP6.1.
- 3. INSTALL NEW CD PIPING WITH P-TRAP TO NEW AC UNIT. ROUTE TO NEAREST ROOF DRAIN AND SPILL WITH 1" A GAP. CONNECT CD PIPING TO AC UNIT PER DETAIL 3/MP6.1. FOR PIPE SUPPORT SEE DETAIL 4/MP6.1
- 4. INSTALL NEW ROOF EXHAUST FAN ON NEW ROOF CURB. CONNECT TO (E) DUCTWORK.
- 5. (E) HV UNITS TO REMAIN.

		GENERAL NOTES
V GAS	1.	CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING AND NEW BUILDING STRUCTURES, SERVICES AND OWNER'S PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION.
5.1.FOR	2.	COORDINATE THE LOCATIONS OF ROOF/ WALL OPENINGS, PENETRATIONS, DUCTWORK AND ALL MECHANICAL EQUIPMENT WITH RESPECT TO BUILDING STRUCTURE AND OTHER BUILDING SERVICES TO AVOID CONFLICT.
1 1" AIR	3.	CONTRACTOR SHALL CONNECT (E) PELICAN THERMOSTATS TO NEW UNITS AND PELICAN ECONOMIZER CONTROLLER.
	4.	CONTRACTOR TO VERIFY ALL EXISTING CURB DIMENSIONS BEFORE SUBMITTAL PROCESS / ORDERING EQUIPMENT AND PROVIDE CURB ADAPTERS AS REQUIRED.
	5.	ALL PLUMBING VENTS TO STAY IN PLACE. EXTEND VENTS ABOVE NEW ROOF LEVEL WHERE REQUIRED.
	6.	CHECK THE UNITS FOR HEATING, COOLING, ECONOMIZER, AND CONTINUOUS FAN OPERATION. COORDINATE WITH SCHOOL DISTRICT TO PROGRAM THERMOSTATS FOR OCCUPIED SCHEDULE HOURS.





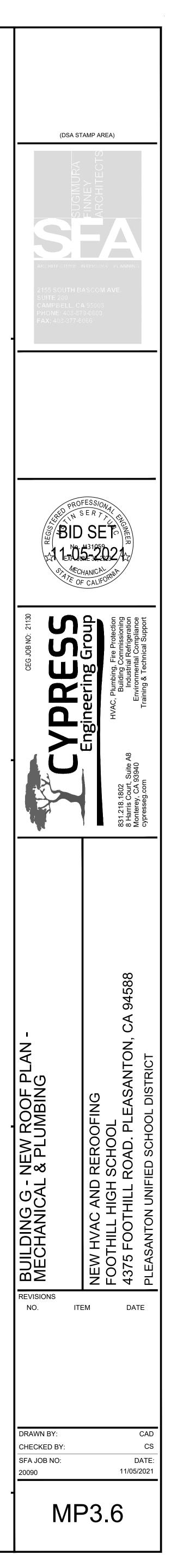


(#) NEW SHEET NOTES

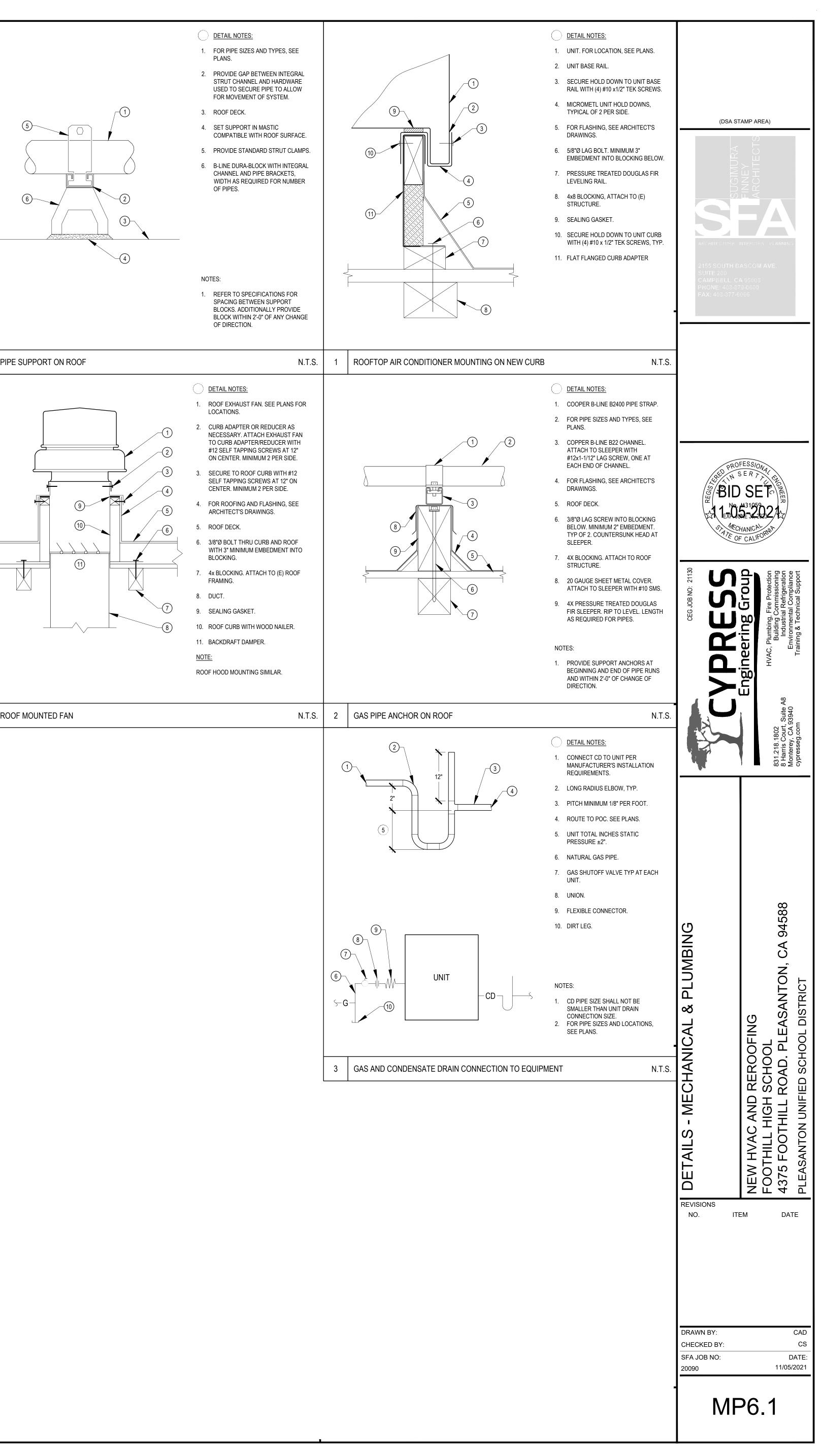
- 1. INSTALL NEW AC UNIT ON NEW ROOF CURB. ENSURE CORRECT UNIT ORIENTATION .
- INSTALL NEW GAS PIPING WITH SHUTOFF VALVE, DIRT LEG, AND FLEX CONNECTION AT NEW AC UNIT. NEW GAS PIPE SIZE TO MATCH SIZE OF EXISTING PIPE AT POC. INSTALL NEW GPR. CONNECT GAS PIPING TO AC UNIT PEF DETAIL 3/MP6.1.FOR PIPE SUPPORT SEE DETAIL 4/MP6.1.
- 3. INSTALL NEW CD PIPING WITH P-TRAP TO NEW AC UNIT. ROUTE TO NEAREST ROOF DRAIN AND SPILL WITH 1" A GAP. CONNECT CD PIPING TO AC UNIT PER DETAIL 3/MP6.1. FOR PIPE SUPPORT SEE DETAIL 4/MP6.1.
- 4. INSTALL NEW ROOF EXHAUST FAN ON NEW ROOF CURB. CONNECT TO (E) DUCTWORK.
- 5. INSTALL NEW RELIEF HOOD ON NEW ROOF CURB. ENSURE CORRECT UNIT ORIENTATION. CONNECT TO EXISTIN DUCT WORK .

/ GAS	1.	CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING AND NEW BUILDING STRUCTURES, SERVICES AND OWNER'S PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION.
T PER	2.	COORDINATE THE LOCATIONS OF ROOF/ WALL OPENINGS, PENETRATIONS, DUCTWORK AND ALL MECHANICAL EQUIPMENT WITH RESPECT TO BUILDING STRUCTURE AND OTHER BUILDING SERVICES TO AVOID CONFLICT.
I 1" AIR	3.	CONTRACTOR SHALL CONNECT (E) PELICAN THERMOSTATS TO NEW UNITS AND PELICAN ECONOMIZER CONTROLLER.
	4.	CONTRACTOR TO VERIFY ALL EXISTING CURB DIMENSIONS BEFORE SUBMITTAL PROCESS / ORDERING EQUIPMENT AND PROVIDE CURB ADAPTERS AS REQUIRED.
ISTING	5.	ALL PLUMBING VENTS TO STAY IN PLACE. EXTEND VENTS ABOVE NEW ROOF LEVEL WHERE REQUIRED.
	6.	PLANS ARE DRAWN FROM AVAILABLE RECORD DRAWINGS AND LIMITED FIELD VERIFICATION. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND MAKE ADJUSTMENTS PRIOR TO ORDERING/FABRICATION.
	7.	ANCHOR GAS PIPING PER 2/MP0.2.
	8.	CHECK THE UNITS FOR HEATING, COOLING, ECONOMIZER, AND CONTINUOUS FAN OPERATION. COORDINATE WITH SCHOOL DISTRICT TO PROGRAM THERMOSTATS FOR OCCUPIED SCHEDULE HOURS.

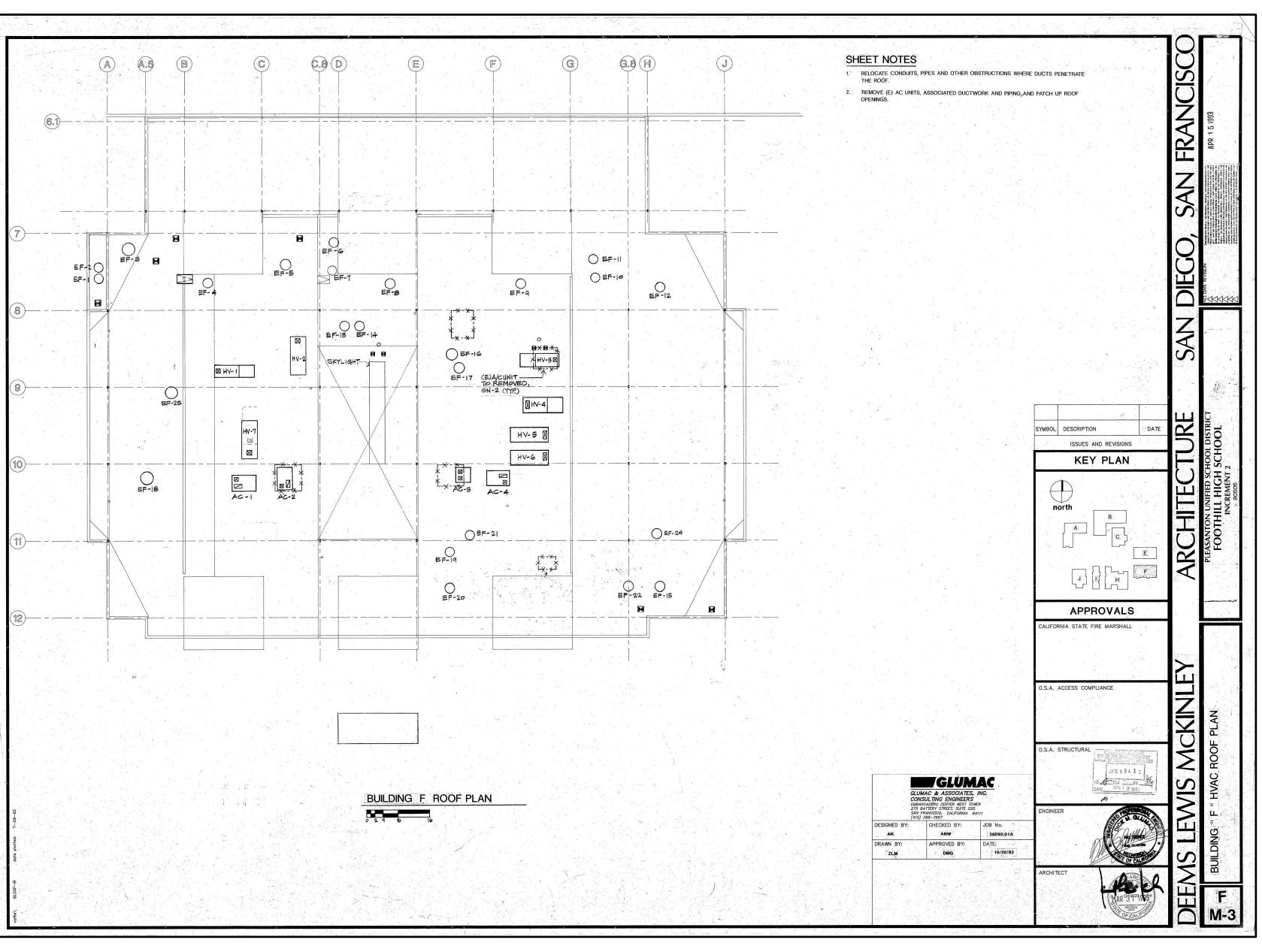
GENERAL NOTES



4 PI		
	4	PI
5 RC		
	5	RC









1 BUILDING F - MECHANCIAL / TAB WORK MP7.1 SCALE: 1/8" = 1'-0"

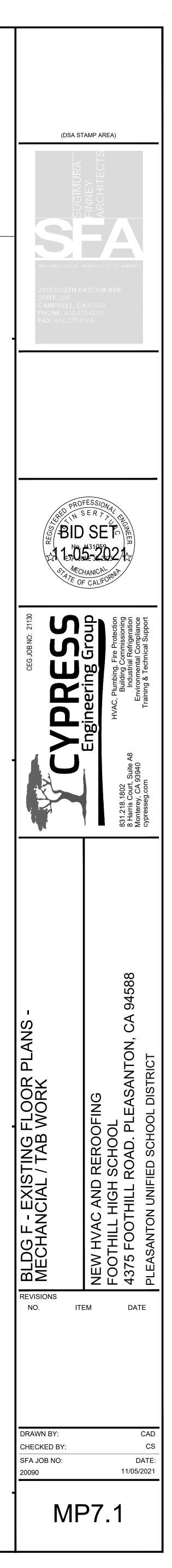
GENERAL NOTES

1. EXISTING FLOOR PLANS FROM RECORD DRAWINGS SHOWN FOR REFERENCE ONLY.

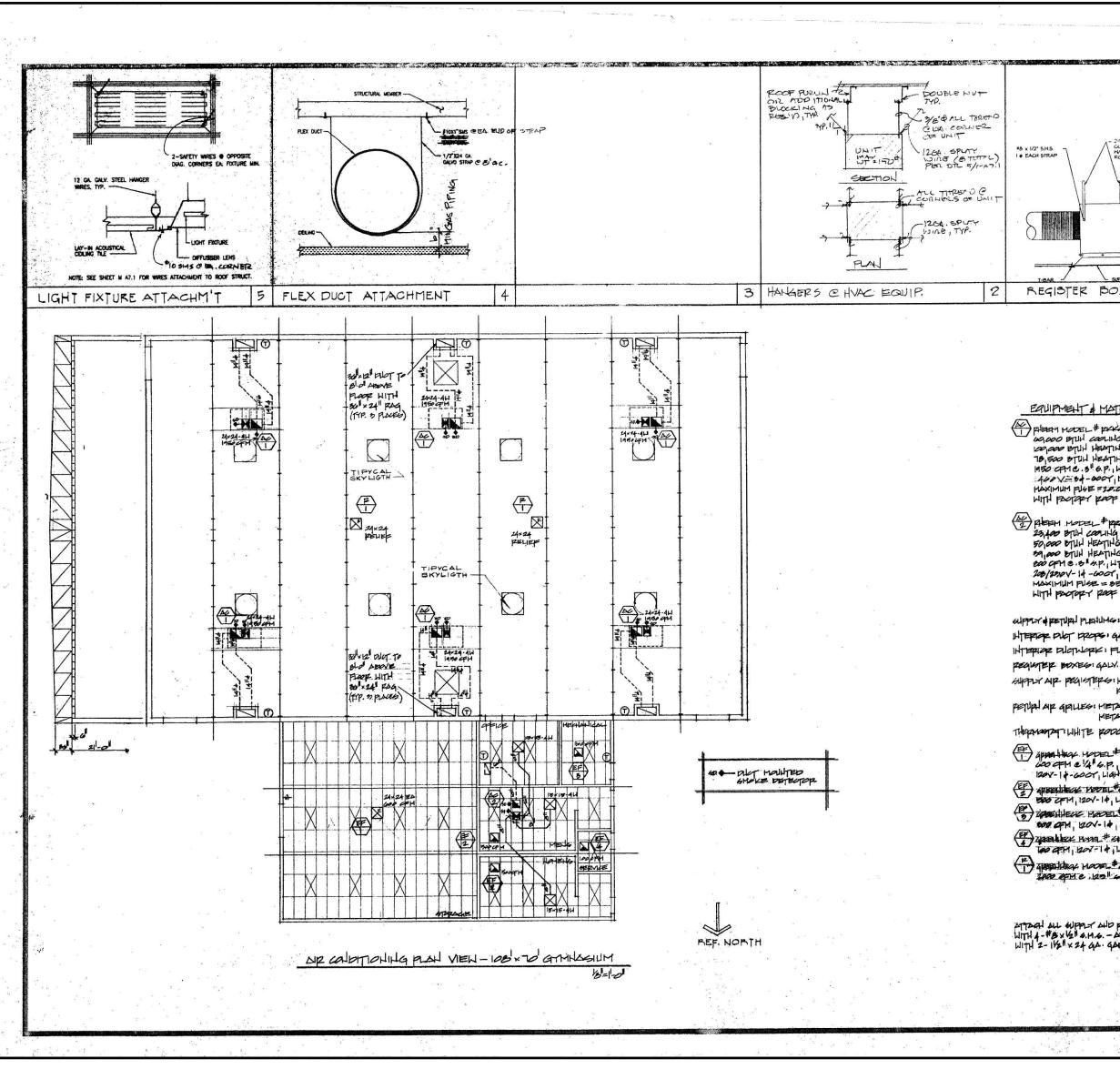
2. ADJUST AND BALANCE AIR FLOW TO CFMS SHOWN ON AIR BALANCE SCHEDULE FOR EACH BUILDING.

AIR BALANCE SCHEDULE - BLD-F						
UNIT NUMBER	SUPPLY CFM	RETURN CFM				
AC-F-1	2000	-				
AC-F-2	2000	-				
AC-F-3	815	-				
AC-F-4	2000	-				





May 1



BUILDING G - MECHANCIAL / TAB WORK MP7.2 SCALE: 1/8" = 1'-0"

GENERAL NOTES

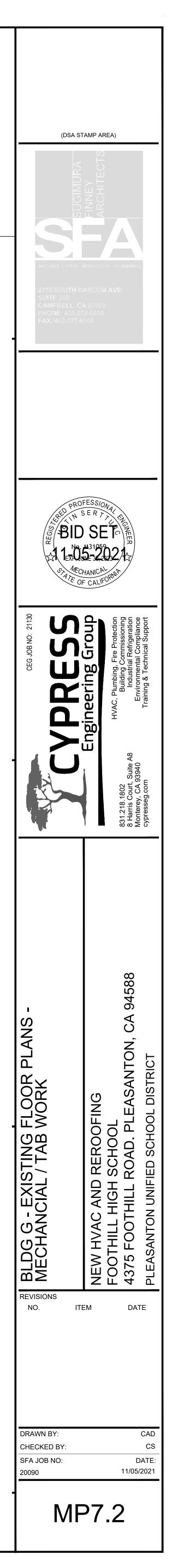
1. EXISTING FLOOR PLANS FROM RECORD DRAWINGS SHOWN FOR REFERENCE ONLY.

2. ADJUST AND BALANCE AIR FLOW TO CFMS SHOWN ON AIR BALANCE SCHEDULE FOR EACH BUILDING.

	The second
SA GALVANILEO STRAPS & OPPOSITE NERS, SECURE TO REGISTER BOX 	DATE REVISIONS BY
26 GA GALVANIZED IRON REGISTER BOX W 1/2' LINER INSULATION SECURE REGISTER TO REGISTER	
BOX W 4-16 x U2' SNS. TYPICAL TEACH SIGE FINISHED CEILING	TI ES N.C.
ATTACHMENT	DESIGNED FACILITIES CONSTRUCTION, INC. 7888 LINCOLN AVE. RIVERSIDE, CA. 92504 Phone: 909. 352-5500 Fax: 909. 352-5501
2101_GCHEDULE -ACCORT = 10.10 114017 - 2017017 T=6851.00	10
ах, FL , БТЕЛ, ВАНРАЗ. ИРВ, ЕСОЛОПІВЕР, О.Э.Д. ІНТАКЕ. G-05H24JKP. РАСКАДЕВ GAS ELEOTPIC GEER = 1000 ИРРТ	SCHOOL og. DSTRICT
altput = 4022000 10x, FL.D. = 10-7 241pc. 0x, FL.D. = 10-7 241pc. 0x, Economizer, 0.4.D. 147242	WINTED SCHOOL
(41) (124)	DESIGNED FACILITIES 1998
аре 1ре-ть веріва тыра аяшна аре 1ри - 11 веріва нара аяшна. ара 1ри - 11 веріва. Ф+48°	DRAWING TYPE
A-90-D PART EXTAULT FAN A-90-D PART EXTAULT FAN ANTAL OPERATED, N/ROOF OURD. FRE (A) HT ANITAL OPERATED PROVIDENTIAL OPERATED ANT ANITAL OPERATED. ANT ANITAL OPERATED. ANT ANITAL OPERATED.	JOB NR. DSA APP. NR.
22 ZATUHQ EMLAND FAN ANT MITTAL OPERATED PS-22 PERTER 2. NTEISO LESS	IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT PLOT 100262 7.K. FLS O_SS WF 9/1/98
TURI AR PEQUATERS TO PEQUATER BOXES rach registers box to poor staloture / straps at opposite corners.	DESIGN BY A. PIERCE DRAWN.BY CHECKED BY SCALE: DATE:
	MMI.0

AIR BALAN	CE SCHEDU	ILE - BLD-G
UNIT NUMBER	SUPPLY CFM	RETURN CFM
AC-G-1	2000	-
AC-G-2	2000	-
AC-G-3	2000	-
AC-G-4	2000	-
AC-G-5	2000	-
AC-G-6	2000	-
AC-G-7	859	-





and a second	Created 09/20 E OF COMP		CALIFOR	NIA ENERGY COM	
ject Nan			eport Page:		NRCC-MCH-E Page 7 of 11
-			ate Prepared:		2021-11-03
					2021 11 00
		REQUIRED CERTIFICATES OF ACCEPTANCE			
ble E. Add	ditional Rem	ections have been made based on information provided in previous tables of this docu marks. These documents must be provided to the building inspector during constructio (2019_compliance_documents/Nonresidential_Documents/NRCA/			
VEC		r fride		Field In	nspector
YES	NO	Form/Title	Systems To Be Field Verified	Pass	Fail
۲	0	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.			
۲	O	NRCA-MCH-03-A Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes". If Constant Volume Single Zo HVAC Systems are included in the scope, permit applicant should move this form to "Yes".	one		
О	۲	NRCA-MCH-04-A Air Distribution Duct Leakage			
۲	0	NRCA-MCH-05-A Air Economizer Controls			
۲	0	NRCA-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitt for all systems required to employ demand controlled ventilation (refer to §120.1(c can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints.)3)		
0	۲	NRCA-MCH-07-A Supply Fan Variable Flow Controls			
0	۲	NRCA-MCH-08-A Valve Leakage Test			
0	۲	NRCA-MCH-09-A Supply Water Temperature Reset Controls			
0	۲	NRCA-MCH-10-A Hydronic System Variable Flow Controls			
0	۲	NRCA-MCH-11-A Automatic Demand Shed Controls			

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

RCC-MCH-E (Cre CERTIFICATE (NRCC-MCH-
roject Name		fing and HVAC Replacement Foothill High School	Report Page:	Page 8 of 1
roject Addre	ss: 437	5 Foothill Rd, Pleasanton, CA 94588	Date Prepared:	 2021-11-0
۲	0	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units		
0	۲	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Uni Acceptance	ts	
0	۲	NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance NOTE: This form does not automatically move to "Yes". If Distributed Energy St AC Systems are included in the scope, permit applicant should move this form to	승규는 승규는 방법을 다 있는 것이다.	
0	۲	NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance NOTE: This form does not automatically move to "Yes". If Chilled Water Storag Coil Internal Melt, Ice-on-Coil External Melt, Ice Harvester, Brine, Ice-Slurry, Eu Salt, Clathrate Hydrate Slurry (CHS), Cryogenic or Encapulated (Ice Ball) System included in the scope, permit applicant should move this form to "Yes".	tectic	
0	۲	NRCA-MCH-16-A Supply Air Temperature Reset Controls		
О	۲	NRCA-MCH-17-A Condenser Water Temperature Reset Controls		
О	۲	NRCA-MCH-18 Energy Management Control Systems		
0	۲	NRCA-MCH-19 Occupancy Sensor Controls		
0	۲	NRCA-MCH-20 Multi-Family Ventilation		
0	۲	NRCA-MCH-21 Multi-Family Envelope Leakage		

STATE OF CALIFORNIA **Mechanical Systems** NRCC-MCH-E (Created 09/2020)

CERTIFICATE O	OF COMPLIA	ANCE	
Project Name:	Roofing	and HVAC Replacement Foothill High School	Repor
Project Addre	ss: 4375 Fc	othill Rd, Pleasanton, CA 94588	Date I
P. DECLARAT	ION OF R	EQUIRED CERTIFICATES OF VERIFICATION	
Table E. Addit	ional Remai IERS Provide	ons have been made based on information provided in previous to rks. These documents must be completed by a HERS Rater and pro ers registry, but drafts can be found online at <u>https://www.energy</u> ts/NRCV/	ovided to the building
YES	NO	Form/1	fitle
0	۲	NRCV-MCH-04-H Duct Leakage Test NOTE: Must be completed by a HERS Rater	
0	۲	NRCV-MCH-24 Enclosure Air Leakage Worksheet NOTE: Must be completed by a HERS Rater	
0	۲	NRCV-MCH-27 High-rise Residential NOTE: Must be completed by a HERS Rater	
0	۲	NRCV-MCH-32 Local Mechanical Exhaust NOTE: Must be completed by a HERS Rater	

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

CERTIFICATE OF	COMPLIANCE				¥5.	
Project Name:	-		oothill High School		Report P	
Project Address:	4375 Foothill Rd,	Pleasanton, CA 9	4588		Date Pre	pared:
I. SYSTEM CON	TROLS					
	ns: Complete the fo <u>§141.0(b)2E</u> for alt		demonstrate compliance w tioning systems.	ith mandatory co	ntrols in <u>§110.2</u> an	d <u>§120.2</u> and prescriptive
01	02	03	04	05	06	07
System Name	System Zoning	Conditioned Floor Area Being Served (ft ²)	Thermostats <u>§110.2(b) & (c)¹,</u> <u>§120.2(a)</u> or <u>§141.0(b)2E</u>	Shut-Off Controls <u>§120.2(e)</u>	Isolation Zone Controls <u>§120.2(g)</u>	Demand Response §110.12 and §120.2(b)
AC	single zone	≤ 25,000 ft²	Setback + DR Tstat per §110.12	NA: 7 day per §120.2(e)1	NA: Single Zone	DR Tstat per §110.12
* NOTES: Contro	2014년 - 1979년 - 1978년 - 1979년 - 1979년 - 1979년 -	a note in the spac	ce below explaining how con compliant with <u>§140.4(d)</u> ;	여러에 해주는 것 것이 것이라. 것을 알았는데 여름이 많이 다.		
	AND INDOOR A	IR QUALITY				
J. VENTILATION	s: Complete the fo	llowing Table to a	lemonstrate compliance wi			nts in <u>§120.1</u> and <u>§120.2</u> the permit application n
Table Instruction residential and h	otel/motel occupa		ions, only ventilation syster rates and airflows may be s			ns can be presented in a
Table Instruction residential and h	otel/motel occupa le, the required ou	tdoor ventilation		shown on the plan	ns or the calculatio	
Table Instruction residential and h In lieu of this tab	otel/motel occupa le, the required ou Check the	<i>tdoor ventilation</i> e box if the proje	rates and airflows may be s	shown on the plan culations on the	ns or the calculatio plans, or attaching	
Table Instruction residential and h In lieu of this tab 01	otel/motel occupation le, the required ou Check the Check the	tdoor ventilation e box if the proje is box if the proje	rates and airflows may be s ct is showing ventilation cal	shown on the plan culations on the or Hotel/Motel sp	ns or the calculatio plans, or attaching paces	

STATE OF CALIFORNIA **Mechanical Systems**

September 2020

STATE OF CALIFORNIA

NRCC-MCH-E (Created 09/2020)

CERTIFICATE OF COMPLIANCE Project Name: Roofing and HVAC Replacement Foothill High School Report Page: Project Address: 4375 Foothill Rd, Pleasanton, CA 94588 Date Prepared:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

¹ FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system. ² Air filtration requirements apply to the following three system types per §120.1(c)1A: space conditioning systems utilizing ducts to supply air ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy providing outside air to occupiable space.

³ Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence. ⁴ See Standards Tables 120.1-A and 120.1-B ⁵ For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.

⁶ §120.2(e)3 requires systems serving rooms that are required by §130.1(c) to have lighting occupancy sensing controls to also have occupancy ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,00 rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading and unlo §130.1(c).

K. TERMINAL BOX CONTROLS This Section Does Not Apply

		omplete the follow akage testing.	ing tables to show compliance with mandatory pipe insulation requirements found in <u>§120.3</u> and
Duct Leak	age Sealin	g	
		questions below ng duct system(s):	Duct leakage testing triggered for these systems?
11	No	The scope of the	e project includes only duct systems serving healthcare facilites.
12	Yes	Duct system pro	ovides conditioned air to an occupiable space for a constant volume, single zone, space-condition
13	Yes	The space cond	itioning system serves less than 5,000 ft ² of conditioned floor area.
14	No	The combined s	urface area of the ducts in the following locations is more than 25% of the total surface area of t
			Outdoors
			In a space directly under a roof that has a U-factor greater than the U-factor of the ceiling, or i requirements of <u>§140.3(a)1B</u> or if the roof has fixed vents or openings to the outside/ uncon
			In an unconditioned crawlspace
			In other unconditioned spaces
15	No	The scope of the	e project includes extending an existing duct system, which is constructed, insulated or sealed w
16	No		e project includes an existing duct system that is documented to have been previously sealed as ng in accordance with procedures in the <u>Reference Nonresidential Appendix NA2</u> .

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

		NRCC-MCH-E
Page:		Page 9 of 11
repared:		2021-11-03
		2
If any selection needs to b aspector during constructio		
andards/2019 compliance		mustbe
	Field Inspector	
	Field In:	spector
	Field In: Pass	spector Fail

September 2020

September 2020

STATE OF CALIFORNIA Mechanical Systems

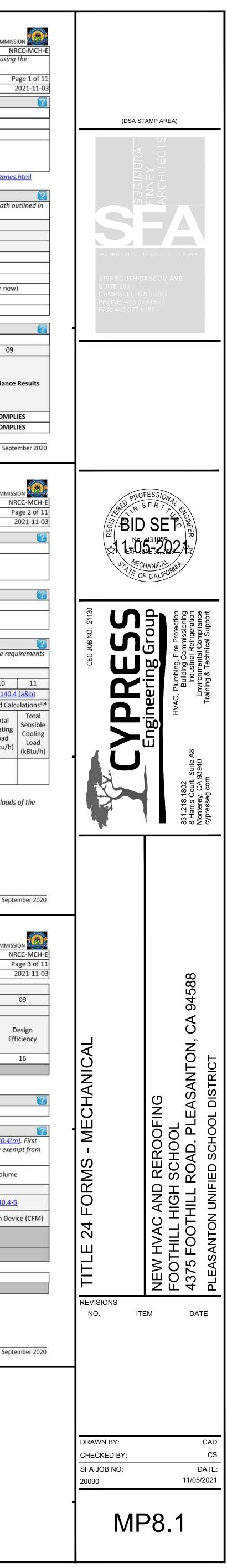
CERTIFICATE OF COMPLIANCE	
Project Name: Roofing and HVAC Replacement Foothill High School	Report Page:
Project Address: 4375 Foothill Rd, Pleasanton, CA 94588	Date Prepared:
Table Continued Duct system shall be sealed in accordance with the California N	Mechanical Code.

M. COOLING TOWERS This Section Does Not Apply

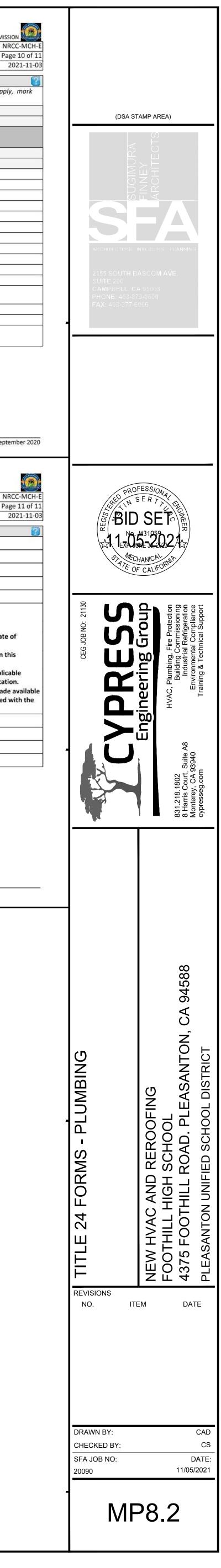
N. DECLAR	ATION OF	REQUIRED CERTIFICATES OF INSTALLATION	
Table E. Ada	litional Ren	ctions have been made based on information provided in previous tables of narks. These documents must be provided to the building inspector during c 2019_compliance_documents/Nonresidential_Documents/NRCI/	
YES	NO	Form/Title	Systems To Be Field Ve
۲		NRCI-MCH-01-E - Must be submitted for all buildings.	

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

	Project Name:	th outlined in <u>§140.4</u> , or <u>§14</u> Roofing and HVAC Replac s: 4375 Foothill Rd, Pleasan	cement Foothi	ll High School			Report	Page: repared:		-		
d <u>(n)</u> or	A. GENERAL I	NFORMATION	T		1.	04 Total Co			ľ			
09 indow	01 Project Lo 02 Climate Z			Pleasanton 12		05 Total Un 06 # of Stor	conditione	d Floor Ar	411.00			
D.	Office (B)	tel Guest Rooms (R-1)	Retail (M			Non-refrig	gerated Wa	arehouse (S				
C.	High-Rise R	Residential (R-2/R-3) Climate zone can be determ	Relocata	ble Class Bldg (E)	umission's web	 Other (Wr	ite In):		/mans/ren	ewahle/hu	ildina climat	te zon
	B. PROJECT S	COPE							-			
		ons: Include any mechanical <u>1.0(b)2</u> for alterations.	systems that a	5. 	of the permit	602		monstratin	ng complian	ce using ti	ne prescriptiv	e path
		01 Air System(s)		Ŵ	02 Vet System Co					2017, 1, 207, 10, 2017, 201	03 n Componen	ts
n-rise ble.	✓ Heating Air✓ Cooling Air	System		Water Econor				Ele	r Economize ectric Resist	102		
-	Mechanica new)	Mechanical Controls I Controls (existing to remai	n, altered or	Hydronic System Cooling Tower	C			V Du	No. Alternational Action of the Action of th	isting to re	main, altered	d or ne
	new)			Chillers				-	entilation onal System:	s/ Termina	l Boxes	
	C. COMPLIAN Table Instructio	ICE RESULTS	ays "DOES NO	T COMPLY" or "CON	MPLIES with Ex	ceptional Co	nditions" i	refer to Tal	ble D. for gu	iidance.		
	01 System	02	03 Fans/	04 System	05		06	0	07	08		C
	Summary <u>§110.1</u> , §110.2,		nomizers 140.4(c),	Controls <u>§110.2</u> , ANI <u>§120.2</u> ,	D Ventilation	AND Co	ninal Box Introls A 10.4(d)	ND §12	bution 20.3, AN 0.4(I)	Cooli D Towe §110.2	ers	nplian
	§110.2, §140.4 (See Table F)		<u>140.4(e)</u> e Table H)	<u>§120.2</u> , <u>§140.4(f)</u> (See Table I)	(See Table J		Table K)		Table L)	(See Tab		
	Yes	AND AND	Yes ANI	D Yes ANI	D Yes	AND Mandatory	A	ND Y	es AN	D		COM COM
	CA Building Ener	gy Efficiency Standards - 2019	Nonresidential C	ompliance: http://ww	ww.energy.ca.go	ov/title24/201	9standards	L			-12	Sej
	STATE OF CALIFOR											
	Mechanica NRCC-MCH-E (Crea CERTIFICATE O									CALI	ORNIA ENERGY	COMM
	Project Name:						Report Date P	: Page: repared:				
		NAL CONDITIONS to-filled with uneditable con	nments becaus	e of selections mod	e or data ente	red in tables	throughou	it the form				
	Table H indicat	es a Fan Power System Inde	x that exceeds	the maximum allow	wed per §140.4	4(c). Please r	evise to de	emonstrate	e complianc			
		le in Table O have been char										_
		AL REMARKS des remarks made by the pe	ermit applicant	to the Authority Ha	aving Jurisdicti	on.						
				· · · · · · · · · · · · · · · · · · ·								
ก	Table Instructio	EM SUMMARY (DRY & W ons: Complete the following	equipment sch	nedules to show con	npliance with r	nandatory re	equiremen	ts found in	<u>§110.1</u> and	<u>§110.2(a</u>	and prescrip	otive re
		4(a), <u>§140.4(b)</u> and <u>§140.4(k</u> uipment Sizing (includes air 02			oumps, VRF, fu	rnaces and 04	unit heate 05	rs) 06	07	08	09	10
	01	V2					Equip		g per Mech	anical Sch	edule (kBtu/ł	
	Name or Equ Item Tag	ipment Category per Tables 110.2		ent Type per <u>0.2 & Title 20</u>	Ava	lest Size ailable ¹	Per		Supp.	Sensible		Total
	item rag	London Adding	Topies 11	<u> </u>	<u>§1</u> 4	<u>40.4(a)</u>	Design (kBtu/h)	Rated (kBtu/h)	Heating Output (kBtu/h)	Per Desigr (kBtu/h)	(kBtu/h)	Heatin Load kBtu/h
	AC	Unitary AC/ A	C, air cooled	backage (3 phase)	v	es	54	67		46	60	
-	AU	Condensers	e, an cooled, p	accure (5 buase)	Y		54	0/		40	00	
	building per <u>§1</u>	Equipment shall be the sma <u>40.4(a)</u> . Healthcare facilitie	s are excepted		1152	22 12		22		5	ing and cooli	ng loa
	² It is common ³ If equipment i	practice to show rated outp is heating only, leave cooling	ut capacity on g output and lo	the equipment sche ad blank. If equipn	nent is cooling	only, leave l				et tables.		
±	* Authority Hav Table Continue	ving Jurisdiction may ask for ed	iouu cuiculatio	nis useu jor compliù	ance per <u>9140.</u>	<u>+1<i>U</i></u>].						
2020	CA Building Ener	gy Efficiency Standards - 2019	Nonresidential C	ompliance: <u>http://wv</u>	ww.energy.ca.go	ov/title24/201	9standards					Sep
	STATE OF CALIFOR											
<u>)</u> :н-е	Mechanica NRCC-MCH-E (Crea									CALI	ORNIA ENERGY	COMM
CONTRACTOR IN	Project Name:						Report Date P	Page: repared:				
11		uipment Efficiency (other to 02	nan Package T		oners (PTAC) a	and Package			1	Ĩ	08	
5 of 11 -11-03					Heating Mod	le	-v	00	07		ooling Mode	
of 11	Name or Item Tag	Size Category (Btu/h)		Condition Effic	ciency Init	Min Efficient Required pe <u>Tables 110.2</u>	er D	esign iciency	Efficiency	Unit	1in Efficiency Required per ables 110.2/	
L				er 10.		<u>Title 20</u>	~	0.8	SEEP		<u>Title 20</u> 13	
		PAL MM						0.0				
	AC	<65,000										
	G. PUMPS											
11	G. PUMPS This Section Do	es Not Apply										
1	G. PUMPS This Section Do H. FAN SYSTE Table Instructio	bes Not Apply MS & AIR ECONOMIZERS ons: Complete the following	Table for fan s									are ex
1	G. PUMPS This Section Do H. FAN SYSTE Table Instruction document the s these requirem	bes Not Apply MS & AIR ECONOMIZERS pons: Complete the following system details, then add fan tents and do not need to be	Table for fan s s within that sy included in Tab	vstem to document ble H.	compliance w	ith fan powe		ents. Fan s		ving only p	rocess loads	
11	G. PUMPS This Section Do H. FAN SYSTE Table Instruction document the s	bes Not Apply MS & AIR ECONOMIZERS pons: Complete the following system details, then add fan tents and do not need to be	Table for fan s s within that sy included in Tab	stem to document	compliance w	ith fan powe	r requirem	ents. Fan s	systems serv	ving only p		t Volur
L	G. PUMPS This Section Do H. FAN SYSTE Table Instruction document the s these requirem System Name: 01 Fan Name or	es Not Apply MS & AIR ECONOMIZERS ons: Complete the following system details, then add fan tents and do not need to be AC Economi	Table for fan s s within that sy included in Tab zer:1 Diffe	vstem to document ole H. rential Temperatur 04 Maximum Design Supply Airflow	e Economi Controls	ith fan powe zer Design	r requirem ned per §1 and (m)	ents. Fan s 40.4(e) 07 Fan Power	Systems serv System Fa Type:	ving only p	rocess loads Constan 08 tment - <u>Table</u>	t Volur 3 e 140.4
	G. PUMPS This Section Do H. FAN SYSTE Table Instruction document the s these requirer System Name: 01	bes Not Apply MS & AIR ECONOMIZERS cons: Complete the following system details, then add fan tents and do not need to be AC Economi 02	Table for fan s s within that sy included in Tab zer:1 Diffe 03	vstem to document ole H. rential Temperatur 04 Maximum Design	e Economi Controls	ith fan powe	r requirem ned per §1 and (m)	ents. Fan s 40.4(e) 07 Fan Power Device	systems serv System Fa Type: r Pressure D	ving only p	rocess loads Constan 08	t Volur 3 e 140.4
	G. PUMPS This Section Do H. FAN SYSTE Table Instruction document the s these requirem System Name: 01 Fan Name or	bes Not Apply MS & AIR ECONOMIZERS cons: Complete the following system details, then add fan tents and do not need to be AC Economi 02	Table for fan s s within that sy included in Tab zer:1 Diffe 03	vstem to document ole H. rential Temperatur 04 Maximum Design Supply Airflow	e Economi Controls	ith fan powe	r requirem ned per §1 and (m)	ents. Fan s 40.4(e) 07 Fan Power Device None used	systems serv System Fa Type: r Pressure D	ving only p	rocess loads Constan 08 tment - <u>Table</u>	t Volu 3 e 140.4
	G. PUMPS This Section Do H. FAN SYSTE Table Instruction document the s these requirem System Name: 01 Fan Name or Item Tag	MS & AIR ECONOMIZERS Dons: Complete the following system details, then add fan tents and do not need to be AC Economi 02 Fan Function	Table for fan s s within that s included in Tab zer:1 Diffe 03 Qty	vstem to document ole H. rential Temperatur 04 Maximum Design Supply Airflow (CFM)	e Economi e Controls 05 HP Unit ²	ith fan powe	r requirem ned per §1 and (m)	ents. Fan s 40.4(e) 07 Fan Power Device None used	Systems serv System Fa Type: r Pressure D	ving only p	rocess loads Constan 08 tment - <u>Table</u>	t Volur 3 e 140.4
	G. PUMPS This Section Do H. FAN SYSTE Table Instruction document the s these requirem System Name: 01 Fan Name or Item Tag AC	MS & AIR ECONOMIZERS Dons: Complete the following system details, then add fan tents and do not need to be AC Economi 02 Fan Function	Table for fan s s within that sy included in Tab zer:1 Diffe 03 Qty 1	vstem to document ole H. rential Temperatur 04 Maximum Design Supply Airflow (CFM) 1,800	e Economi e Controls 05 HP Unit ²	ith fan powe	r requirem ned per §1 and (m)	ents. Fan s 40.4(e) 07 Fan Power Device None used	systems serv System Fai Type: r Pressure D	ving only p n Drop Adjus Design	rocess loads Constan 08 tment - <u>Table</u>	t Volur 3 ugh De
	G. PUMPS This Section Do H. FAN SYSTE Table Instruction document the st these requirem System Name: 01 Fan Name or Item Tag AC Total System	AC Economi AC Economi Fan Function Supply	Table for fan s s within that sy included in Tab zer:1 Diffe 03 Qty 1 1 W): 1,800 must meet rec	Verteen to document ole H. rential Temperature 04 Maximum Design Supply Airflow (CFM) 1,800 Tota guirements of <u>§140.</u>	e Economi Controls 05 HP Unit ² BHP	ith fan powe izer Design 06 Design HP 1.05 in (B)HP:	r requirem ned per §1 and (m) Calculate	ents. Fan s 40.4(e) 07 Fan Power Device None used ed Adjustme	Systems serv System Fai Type: r Pressure D ent (in H ₂ O)	ving only p n Drop Adjus Design	rocess loads Constan 08 tment - <u>Table</u> Airflow thro	t Volur 3 ugh De
	G. PUMPS This Section Do H. FAN SYSTE Table Instruction document the st these requirem System Name: 01 Fan Name or Item Tag AC Total System	n Design Supply Airflow (CFI	Table for fan s s within that sy included in Tab zer:1 Diffe 03 Qty 1 1 W): 1,800 must meet rec	Verteen to document ole H. rential Temperature 04 Maximum Design Supply Airflow (CFM) 1,800 Tota guirements of <u>§140.</u>	e Economi Controls 05 HP Unit ² BHP	ith fan powe izer Design 06 Design HP 1.05 in (B)HP:	r requirem ned per §1 and (m) Calculate	ents. Fan s 40.4(e) 07 Fan Power Device None used ed Adjustme	Systems serv System Fai Type: r Pressure D ent (in H ₂ O)	ving only p n Drop Adjus Design	rocess loads Constan 08 tment - <u>Table</u> Airflow thro	t Volur 3 ugh De



Project Address: 4375 Foothill Rd, Q. MANDATORY MEASURES DC Table Instructions: Indicate where in the plan sheet or construction docu Compliance with Mandatory Measures MCH Mandatory Measures Note Bl Heating Equipment Efficiency per § Furnace Standby Loss Control per § Duct Insulation per §120.4 Heating Hot Water Equipment Efficiency	OCUMENTATION LOCATION e mandatory measures are do cument location as "N/A", an 01 sures documented through Block: 03 Mandatory Measure	ON ocumented in the plan set or	Report Page: Date Prepared:		
Q. MANDATORY MEASURES DC Table Instructions: Indicate where in the plan sheet or construction docu Compliance with Mandatory Measures MCH Mandatory Measures Note Bl Heating Equipment Efficiency per § Cooling Equipment Efficiency per § Furnace Standby Loss Control per § Duct Insulation per §120.4 Heating Hot Water Equipment Efficiency	OCUMENTATION LOCATION e mandatory measures are do cument location as "N/A", an 01 sures documented through Block: 03 Mandatory Measure	ocumented in the plan set or	n in the second se		
Table Instructions: Indicate where is the plan sheet or construction docu Compliance with Mandatory Measu MCH Mandatory Measures Note Bl Heating Equipment Efficiency per § Cooling Equipment Efficiency per § Furnace Standby Loss Control per § Duct Insulation per §120.4 Heating Hot Water Equipment Efficience	e mandatory measures are do cument location as "N/A", an 01 isures documented through Block: 03 Mandatory Measure	ocumented in the plan set or	construction documentation. For any		_
the plan sheet or construction docu Compliance with Mandatory Measu MCH Mandatory Measures Note Bl Heating Equipment Efficiency per § Cooling Equipment Efficiency per § Furnace Standby Loss Control per § Duct Insulation per §120.4 Heating Hot Water Equipment Efficiency	cument location as "N/A", an 01 Isures documented through Block: 03 Mandatory Measure			mandatory measures that	do
MCH Mandatory Measures Note B Heating Equipment Efficiency per § Cooling Equipment Efficiency per § Furnace Standby Loss Control per § Duct Insulation per <u>§120.4</u> Heating Hot Water Equipment Efficience	sures documented through Block: 03 Mandatory Measure		ank will result in non-compliance in To	able C.	
MCH Mandatory Measures Note B Heating Equipment Efficiency per § Cooling Equipment Efficiency per § Furnace Standby Loss Control per § Duct Insulation per <u>§120.4</u> Heating Hot Water Equipment Efficience	03 Mandatory Measure		Plan sheet or co	02 onstruction document locati	ion
MCH Mandatory Measures Note B Heating Equipment Efficiency per § Cooling Equipment Efficiency per § Furnace Standby Loss Control per § Duct Insulation per <u>§120.4</u> Heating Hot Water Equipment Efficience	03 Mandatory Measure			instruction document locati	1011
Cooling Equipment Efficiency per <u>§</u> Furnace Standby Loss Control per <u>§</u> Duct Insulation per <u>§120.4</u> Heating Hot Water Equipment Effic	Mandatory Measure	No			
Cooling Equipment Efficiency per <u>§</u> Furnace Standby Loss Control per <u>§</u> Duct Insulation per <u>§120.4</u> Heating Hot Water Equipment Effic			Dise sharehouse	04 onstruction document locati	t e e
Cooling Equipment Efficiency per <u>§</u> Furnace Standby Loss Control per <u>§</u> Duct Insulation per <u>§120.4</u> Heating Hot Water Equipment Effic			MP0.2	Instruction document locati	ion
Duct Insulation per <u>§120.4</u> Heating Hot Water Equipment Effic	Contraction of the second s		MP0.2		
Heating Hot Water Equipment Effic	§110.2(d)		NA		
•	ficiency per §110.1		230500 NA		
cooling chilled and condenser Wa	ater Equipment Efficiency pe	r §110.1	NA		
Open and Closed Circuit Cooling To					
Open and Closed Circuit Cooling To			NA		
Open and Closed Circuit Cooling To Open and Closed Circuit Cooling To		the second state of the se	NA		
Pipe Insulation per §120.3(b)		into per <u>presentere</u>	NA		
Combustion air shutoff, combustio	on air fan controls and stack	design and controls for	NA		
boilers per <u>§120.9</u> Heat Pump with Supplementary Ele	ectric Resistance Heater Co	ntrols per §110.2(b)	NA		
The air duct and plenum system is			NA		
Kitchen range hoods shall be rated 62.2	d for sound in accordance wi	th Section 7.2 of ASHRAE	NA		
	ds - 2019 Nonresidential Compl	ance: <u>http://www.energy.ca.g</u>	ov/title24/2019standards		
STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E (Created) CERTIFICATE OF COMPLIANCE				CALIFORNIA ENERGY COMM	1155
STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E (Created) CERTIFICATE OF COMPLIANCE Project Name: Roofing and HVA	AC Replacement Foothill Higl		ov/title24/2019standards Report Page: Date Prepared:	CALIFORNIA ENERGY COMM	1155
STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E (Created) CERTIFICATE OF COMPLIANCE Project Name: Roofing and HVA Project Address: 4375 Foothill Rd,	AC Replacement Foothill Hig I, Pleasanton, CA 94588	n School	Report Page:	CALIFORNIA ENERGY COMM	1155
STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E (Created) CERTIFICATE OF COMPLIANCE Project Name: Roofing and HVA Project Address: 4375 Foothill Rd, DOCUMENTATION AUTHOR'S E	AC Replacement Foothill Hig I, Pleasanton, CA 94588 DECLARATION STATEMEN	n School NT	Report Page:		
Mechanical Systems NRCC-MCH-E (Created) CERTIFICATE OF COMPLIANCE Project Name: Roofing and HVA Project Address: 4375 Foothill Rd, DOCUMENTATION AUTHOR'S D 1. I certify that this Certificate of Co	AC Replacement Foothill Hig I, Pleasanton, CA 94588 DECLARATION STATEMEN	n School NT s accurate and complete.	Report Page:		
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OR SHALL PROVIDE TO THE ARCHITECT A	7.
OR SHALL PROVIDE ALL REQUIRED "CUTTI Y TO RESTORE DAMAGED SURFACES TO E DF WORK.	
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OR SHALL PROVIDE IN EVERY NEW EMPTY TION.	14.
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ASSOCIATED WITH ELECTRICAL BEING DE	E.
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IRING SHOWN HAS BEEN TAKEN FROM OL OR SHALL FIELD VERIFY ACTUAL CONDITION S AND TO MEET THE INTENT OF THE CONT	
EPHONE, COMPUTER DATA, FIBER OPTICS TO BE DEMOLISHED IT SHALL BE REMOVED OR SHALL COORDINATE WITH OWNER OR D FOR REMOVAL OR PRESERVATION PRIC	M.
CAL CONTRACTOR. TE WITH OWNER PRIOR TO START OF DEM TO OCCUR DURING NON-REGULAR BUSINE	N.

RAL CONSTRUCTION NOTES

PLY WITH ALL APPLICABLE CODES AND REGULATIONS. MATERIALS AND EQUIPMENT LABELED FOR THE APPLICATION. OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTION FEES REQUIRED BY

THE PROJECT SITE PRIOR TO BIDDING AND ALLOW FOR ALL FIELD CONDITIONS. E RESPONSIBLE FOR ALL ELECTRICAL WORK NOTED AND CALLED OUT ON ALL HE CONTRACTOR SHALL OBTAIN INFORMATION AND BE FAMILIAR WITH ALL OTHER RACTOR SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN OTHER TRADES

ESPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE NECESSARY FOR LIABILITY AND PERSONAL, PROPERTY DAMAGE, TO FULLY CHITECT AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING FROM THIS WORK. TAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS THE CONTRACTOR SHALL AT THE CONCLUSION OF THE PROJECT PROVIDE WINGS ACCEPTABLE TO THE ARCHITECT.

TO THE PROJECT SHALL BE NEW. THE CONTRACTOR SHALL BE RESPONSIBLE TO INCIDENTAL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION. /IDE TO THE ARCHITECT A CONSTRUCTION SCHEDULE OF ELECTRICAL WORK. THE

SHALL IDENTIFY ALL SIGNIFICANT MILESTONES WITH COMPLETION DATES. /IDE ALL REQUIRED "CUTTING, PATCHING, EXCAVATION, BACKFILL AND REPAIRS" DAMAGED SURFACES TO EQUAL OR BETTER THAN ORIGINAL CONDITIONS EXISTING

ESPONSIBLE FOR PAINTING ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. INTING SECTION FOR REQUIREMENTS. NT INSTALLED OUTDOORS SHALL BE WEATHERPROOF. EXTERIOR CONDUITS RUN INSTALLED WITH FLASHING, CAULKED AND SEALED. CONDUITS FOR EXTERIOR L BE RUN INSIDE BUILDING UNLESS OTHERWISE NOTED ON DRAWINGS.

HERWISE NOTED ON DRAWINGS SHALL HAVE AS A MINIMUM: TWO (2) #12s WITH ONE RKS SHOWN ON CIRCUITRY ARE FOR ROUGH ESTIMATING ONLY. THE CONTRACTOR OR ALL WIRES AND WIRE SIZES REQUIRED BY LATEST CODE.

ALL HAVE INDIVIDUAL NEUTRALS. SHARED NEUTRALS ON MULTIWIRE CIRCUITS IS FRUNS, ELECTRICAL EQUIPMENT AND PANELS WITH ALL OTHER WORK TO AVOID

/IDE IN EVERY NEW EMPTY CONDUIT A DRAW STRING FOR USE IN FUTURE

ONCEALED WHERE POSSIBLE. CUT AND PATCH EXISTING WALLS WHERE NECESSARY TO CUT OR BORE EXISTING STRUCTURAL WALLS FOR NEW ELECTRICAL N FROM THE ARCHITECT PRIOR TO STARTING WORK. REUSE EXISTING CONDUIT

E TO REUSE EXISTING CONDUIT OR RUN NEW CONCEALED CONDUIT USE ACEWAY AND BOXES. ROUTING OF ALL NON-METALLIC RACEWAYS SHALL BE ECT OR OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.

ESPONSIBLE FOR ALL DAMAGE TO EXISTING UNDERGROUND SYSTEMS (GAS, TRICAL, SEWER, ETC.). THE CONTRACTOR SHALL REPAIR & PAY ALL EXPENSES FOR ERGROUND SYSTEMS AS A RESULT OF NEW WORK. REPAIR TO DAMAGED SHALL BE TO THE OWNERS SATISFACTION WITHOUT EXTRA EXPENSE TO THE

EATHED CONDUCTORS ARE FOUND, THE CONTRACTOR SHALL REMOVE TO GENERAL DEMOLITION NOTES AND REPLACE WITH CONDUIT. METAL CLAD CABLE CASE-BY-CASE BASIS ONLY BY WRITTEN APPROVAL FROM THE ARCHITECT.

DSED SURFACE MOUNTED RACEWAY IN PUBLIC AREAS SHALL BE REVIEWED BY H-IN. CONTRACTOR IS TO DETERMINE THE ACCESSIBILITY OF ATTIC. FURRED , ETC. IN EACH AREA AND REVIEW WITH ARCHITECT. IF SYSTEM CAN BE ROUTED HING OR ACCESSIBILITY, CONTRACTOR IS TO DO SO. IF INACCESSIBILITY IS R SHALL INSTALL SURFACE MOUNTED RACEWAY IN THE MOST AESTHETICALLY RMINED BY THE ARCHITECT. NO ALLOWANCE FOR ADDITIONAL COMPENSATION CTED BY THE ARCHITECT WILL BE MADE.

RAL DEMOLITION NOTES

VERIFY EXTENT OF ELECTRICAL DEMOLITION AND QUANTITIES OF ELECTRICAL TO BY THE REQUIREMENTS OF THE PROJECT.

VIRING, RACEWAY, BOXES, SWITCHES, LIGHT FIXTURES, ETC. AS INDICATED ON THE Y THESE DEMOLITION NOTES.

/ITH ELECTRICAL BEING DEMOLISHED WHICH ARE CONCEALED IN EXISTING ABANDONED IN PLACE. REMOVE WIRING FROM CONDUIT.

/ITH ELECTRICAL BEING DEMOLISHED WHICH ARE EXPOSED SHALL BE REMOVED. PMENT OR WIRING IS INDICATED, IT SHALL INCLUDE ALL ASSOCIATED WIRING BACK OUTLET, DEVICE, FIXTURE OR PANEL.

SHALL INSURE THAT ALL REMAINING ACTIVE CIRCUITS, DEVICES, OUTLETS, LIGHT BEEN DISCONNECTED OR MADE INOPERATIVE DURING DEMOLITION. ELECTRICAL DRE ALL INTERRUPTED OR DISCONNECTED CIRCUITS TO OPERATION.

SHALL REMOVE AND DISPOSE OF ALL REMOVED ELECTRICAL EQUIPMENT AND

OR MATERIAL SHALL BE REUSED AS PART OF NEW WORK, U.O.N. EALED RACEWAYS MAY BE REUSED FOR NEW WORK PROVIDED THEY MEET ALL ECIFICATION FOR NEW WORK.

MAY BE REUSED FOR NEW WORK PROVIDED THEY MEET ALL REQUIREMENTS OF IEW WORK, MEET THE REQUIREMENTS OF THE CURRENT C.E.C. FOR VOLUME AND SHOWN FOR THE NEW WORK.

XISTING WALLS TO REMAIN MAY BE ABANDONED IN PLACE. REMOVE DEVICES AND PROVIDE AND INSTALL A BLANK DEVICE PLATE.

AS BEEN TAKEN FROM OLD PLANS AND IS ASSUMED TO BE CORRECT. ELECTRICAL VERIFY ACTUAL CONDITIONS AND MAKE ADJUSTMENTS TO SUIT ACTUAL THE INTENT OF THE CONTRACT DOCUMENTS.

PUTER DATA, FIBER OPTICS, FIRE ALARM OR OTHER COMMUNICATIONS OUTLETS OR IED IT SHALL BE REMOVED BACK TO THE NEXT TERMINAL POINT. ELECTRICAL DINATE WITH OWNER OR HIS REPRESENTATIVE TO HAVE EQUIPMENT AND WIRING OR PRESERVATION PRIOR TO REMOVAL OF OUTLET BOXES, CONDUIT OR WIRING

PRIOR TO START OF DEMOLITION TO MINIMIZE POWER INTERRUPTIONS, WORK NG NON-REGULAR BUSINESS HOURS. COORDINATE IN WRITING WITH OWNER ONE

		ELE	ECTRICAL SYMBOLS & A		/IATIONS				
		SYMBOLS & ABBREVI	ATIONS SHOWN ARE FOR GENERAL USE. DISREGARE	D THOSE WHICH	I DO NOT APPEAR ON THE	PLANS.			
•	SECURITY DOOR CONTACTS		PANELBOARD - FLUSH MOUNTED EQUIPMENT PANEL - FLUSH MOUNTED	2-0	DETAIL NOTE REFERENCE	SYMBOL I SAME DET		AL NUMBER	ION REFERENCE
HMD→	SECURITY MOTION DETECTOR		PANELBOARD - SURFACE MOUNTED				<u> </u>		
HSC⊲	CCTV CAMERA	77772	EQUIPMENT PANEL - SURFACE MOUNTED	F301	FEEDER DESIGNATION; SEE ASSOCIATED NOTE ON	I SAME DET	AIL $1 \times$	CATES QUAN	NTITY OF TELEPHONE OU
Нкр	SECURITY SYSTEM KEYPAD	M-3	METER W/ CURRENT TRANSFORMER	ΔBBR	EVIATIONS			CATES QUAN	NTITY OF DATA OUTLETS
H•	DOOR BELL PUSHBUTTON	@∕Ю	JUNCTION BOX - CEILING OR WALL MOUNTED, SIZE PER CODE, TAPE AND TAG WIRES	A A AFF	AMPERE ABOVE FINISHED FLOOR	GFCI GFI	GROUND FAULT	NTS OAH	NOT TO SCALE OVERALL HEIGHT
-СН	DOOR CHIME WITH LED	\mathcal{O}'	MOTOR CONNECTION			GND, G GRS	GROUND GALVANIZED RIGID	OC OH	ON CENTER OVERHEAD
Ф	RECEPTACLE - DUPLEX *	C	NON-FUSED DISCONNECT SWITCH	AWG	AMERICAN WIRE GAUGE	HT	STEEL HEIGHT	PA PB	PUBLIC ADDRESS PULL BOX
Ø	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT	Ľ	FUSED DISCONNECT SWITCH; FUSED WITH DUAL-ELEMENT FUSES SIZED PER EQUIPMENT MFGR'S NAMEPLATE DATA	BKR C CATV	BREAKER CONDUIT CABLE TV	IC IDF	INTERCOM INTERMEDIATE DISTRIBUTION FRAME	PB PF PH PIR	POUL BOX POWER FACTOR PHASE PASSIVE INFRARED
ф	GFCI CONVENIENCE RECEPTACLE - DUPLEX*		COMBINATION STARTER/FUSED DISCONNECT SWITCH;	CB CCTV	CIRCUIT BREAKER CLOSED CIRCUIT TV	INCAND JB	INCANDESCENT JUNCTION BOX	PNL PV	PANEL PHOTOVOLTAIC
Ö	GFCI CONVENIENCE DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT		FUSED DISCONNECT SWITCH ELEMENT FUSES SIZED PER EQUIPMENT MFGRS NAMEPLATE DATA	CKT CL	CIRCUIT CENTER LINE	KV KVA	KILOVOLT KILOVOLT AMPERES	PVC	POLYVINYL CHLORIDE
#	RECEPTACLE DOUBLE DUPLEX*		MAGNETIC STARTER - NEMA SIZE INDICATED NEMA 3R ENCLOSURE UNLESS OTHERWISE SPECIFIED	CLG C.O. CTR	CEILING CONDUIT ONLY CENTER	KW LCP	KILOWATT LIGHTING CONTROL PANEL	PWR (R) (RP)	POWER RELOCATE REMOVABLE POLE
Ф	HALF SWITCHED DUPLEX RECEPTACLE *		CIRCUIT BREAKER	D DIM	DIMMER DIMENSION	LTG LV	LIGHTING LOW VOLTAGE		RECEPTACLES REQUIRED
Φ̈́	SINGLE RECEPTACLE *	● – Iı·	GROUND ROD WITH GROUNDWELL BOX	DIST (E)	DISTRIBUTION EXISTING	KCM	THOUSAND CIRCULAR MILS		S REQUIREMENT(S) SHEET
∲	DUPLEX RECEPTACLE - CEILING MOUNTED	●— ŀ· —_	GROUND ELECTRODE NORMALLY OPEN CONTACT	EC (EL) EM	ELECTRICAL CONTRACTOR EVENING LIGHT EMERGENCY	M.B. MCA	MAIN CIRCUIT BREAKER MINIMUM CIRCUIT AMPS	SLD STC	SINGLE LINE DIAGRAM SYSTEMS TERMINATIO CABINET
$\Phi^{_{HC}}$	LETTER INDICATES DUPLEX HALF	//	NORMALLY CLOSED CONTACT	EMT	ELECTRICAL	MDF MECH	MAIN DISTRIBUTION FRAME MECHANICAL	SWBD	SWITCH SWITCHBOARD
ф ^с	CONTROLLED RECEPTACLE * LETTER INDICATES DUPLEX FULLY CONTROLLED RECEPTACLE *		TRANSFORMER - SEE SINGLE LINE FOR SIZE	EQUIP EV	METALLIC TUBING EQUIPMENT ELECTRICAL VEHICLE	MH MLO MPOE	METAL HALIDE MAIN LUGS ONLY MAIN POINT OF ENTRANCE	TTB TYP UON	TELEPHONE TERMINAL BACKBOARD TYPICAL UNLESS OTHERWISE N
\odot	FLOOR MOUNTED DUPLEX RECEPTACLE		PULLBOX	FA FACP	FIRE ALARM FIRE ALARM	MTD MTG MOCP	MOUNTED MOUNTING MAXIMUM OVER	UG	UNDERGROUND
	FLOOR MOUNTED BOX	\sim	FLEX CONDUIT WITH CONNECTION	FC FIN	CONTROL PANEL FOOT CANDLE FINISH	(N)	CURRENT PROTECTION	VD W	VOLTAGE DROP WATT
₽	POWER OUTLET - SEE PLANS FOR NEMA TYPE *	o	CONDUIT - UP	FL FLA	FLOOR FULL LOAD AMPS	NIC	NOT IN CONTRACT NOT IN ELECTRICAL	W/ WP	WITH WEATHERPROOF
	POWER POLE	•	CONDUIT - DOWN	FLUOR (F)	FLUORESCENT FUTURE	(NL)	CONTRACT NIGHT LIGHT	XFMR	TRANSFORMER
∇	WALL TELEPHONE OUTLET **		SURFACE METAL OR NON-METALLIC RACEWAY	GC	GENERAL CONTRACTOR	NO. NOM	NUMBER NOMINAL		
V ^[#]	VOICE/DATA WALL OUTLET *		CONDUIT - EXISTING						
[#]	VOICE/DATA OUTLET MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT		CONDUIT - CONCEALED IN WALLS OR CEILING						
X ^[#]	SURFACE MOUNTED VOICE/DATA WALL OUTLET *		CONDUIT - BELOW SLAB OR UNDERGROUND: 3/4"MIN.						
(#]	SURFACE MOUNTED VOICE/DATA OUTLET	E	CAPPED OR STUB-OUT CONDUIT						
	MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT WIRELESS ACCESS POINT (WAP) - CEILING MOUNTED	Ş	CONDUIT CONTINUATION CONDUIT - HOME RUN TO PANEL, TERMINAL						
	WIRELESS ACCESS POINT (WAP) - WALL MOUNTED - FIELD VERIFY HEIGHT	#10	CABINET, ETC. AS INDICATED – RUNS MARKED WITH CROSSHATCHES INDICATE NUMBER OF #12 AWG WIRES						
	VOICE/DATA OUTLET - FLOOR MOUNTED		WHEN MORE THAN TWO. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODE.						
T	TV OUTLET *	L	 CROSS HATCHES WITH NUMBER ADJACENT INDICATES WIRE SIZE OTHER THAN #12 						
[#]	VOICE/DATA OUTLET - CEILING MOUNTED		AWG.						
S	INTERIOR SPEAKERS CEILING MOUNTED	$\langle 2 \rangle$	SHEET NOTE REFERENCE SYMBOL; SEE ASSOCIATED NOTE ON SAME SHEET						
Ю Н	INTERIOR SPEAKERS WALL MOUNTED CLOCK +8'-0" AFF U.O.N. VERIFY BEFORE INSTALLATION	$\sqrt{3}$	SCHEDULE SYMBOL; SEE ASSOCIATED NOTE ON SAME SHEET					★★ +48" A [#] NUMBE	.F.F. TO BOTTOM OF BO> .F.F. TO TOP OF BOX, U.C ER IN BRACKETS DENOTE BLE DROPS WHEN MORE

EQUIPMENT ANCHORAGE

M/E/P COMPONENT ANCHORAGE NOTES:

ALL MECHANICAL. PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTION 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 & 30:

- 1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
- 2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED(e.g. HARD WIRE) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 120 / 220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
- 3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED IN THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT. FELXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.

A. COMPONENTS WEIGHTING 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 WEIGHTING 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 OF 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 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8 AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26. THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION

SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON PRE-APPROVED INSTALLATION GUIDE (e.g. OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS. MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

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

TO BOTTOM OF BOX, U.O.N. TO TOP OF BOX, U.O.N.

APPLICABLE CODES & STANDARDS CODES:

- 2019 CALIFORNIA ADMINISTRATIVE CODE C.C.R., TITLE 24, PART 1.
- 2019 CALIFORNIA BUILDING CODE (CBC) C.C.R., TITLE 24, VOL. 1 & 2 BASED ON THE 2018 INTERNATIONAL BUILDING CODE (IBC) WITH CALIFORNIA AMENDMENTS. 2019 CALIFORNIA ELECTRICAL CODE (CEC) C.C.R., TITLE 24, PART 3 BASED ON THE
- 2017 NATIONAL ELECTRICAL CODE (NEC) WITH CALIFORNIA AMENDMENTS.
- 2019 CALIFORNIA MECHANICAL CODE (CMC) C.C.R., TITLE 24, PART 4 BASED ON THE 2018 UNIFORM MECHANICAL CODE (UMC) WITH CALIFORNIA AMENDMENTS. 2019 CALIFORNIA PLUMBING CODE (CPC) C.C.R., TITLE 24, PART 5 BASED ON THE 2018
- UNIFORM PLUMBING CODE (UPC) WITH CALIFORNIA AMENDMENTS.
- 6. 2019 CALIFORNIA ENERGY CODE C.C.R., TITLE 24, PART 6. 2019 CALIFORNIA FIRE CODE (CFC) C.C.R., TITLE 24, PART 9 BASED ON THE 2018
- INTERNATIONAL FIRE CODE (IFC) WITH CALIFORNIA AMENDMENTS.
- 8. 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE C.C.R., TITLE 24, PART 11.
- 9. 2019 CALIFORNIA REFERENCED STANDARDS CODE C.C.R., TITLE 24, PART 12. 10. TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
- 11. NATIONAL FIRE ALARM CODE (NFPA 72) 2016.

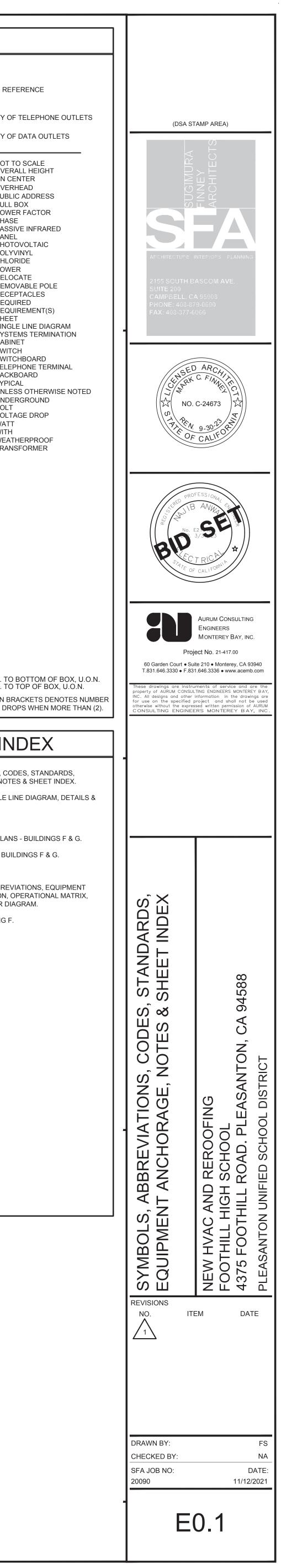
STANDARDS:

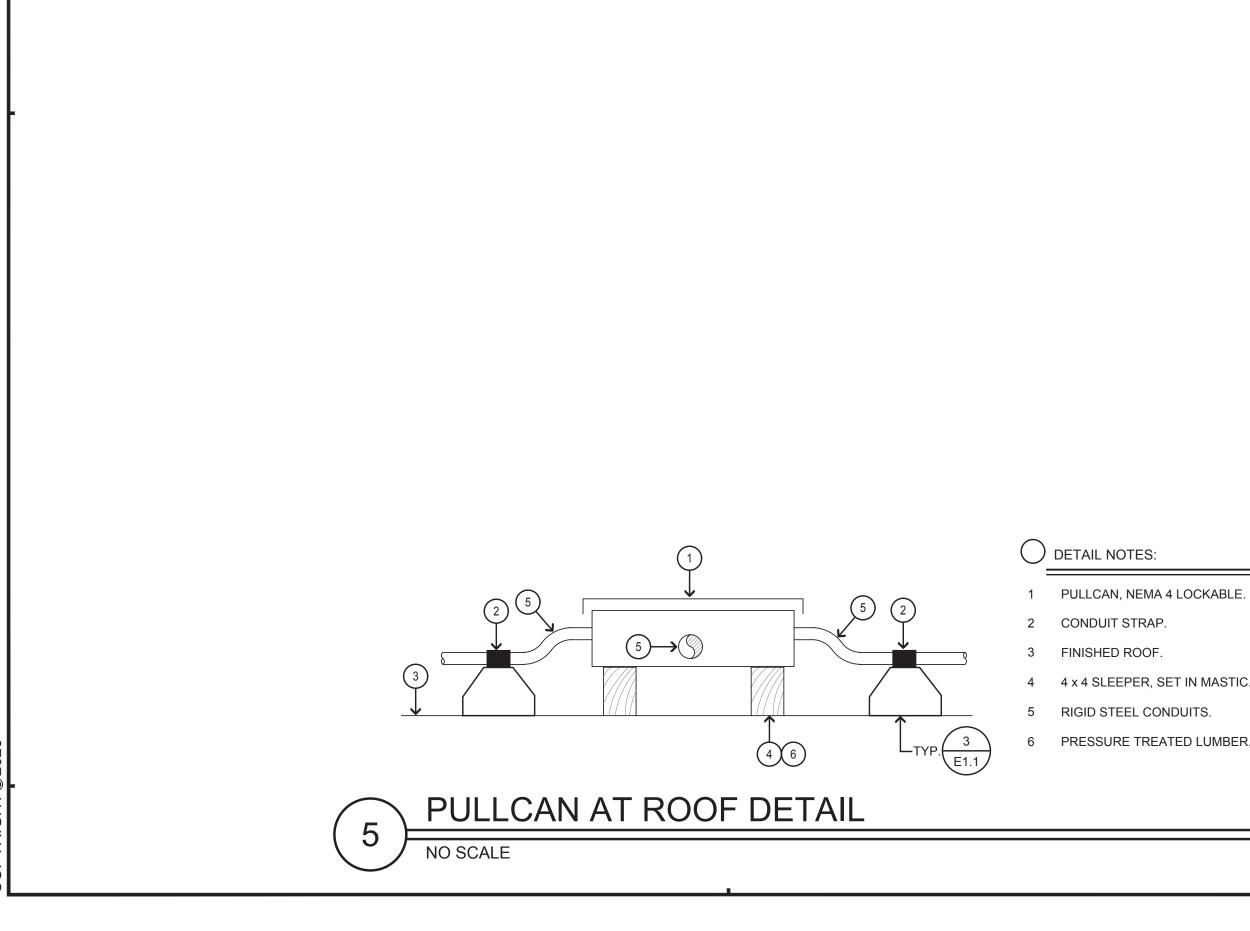
- AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
- 2. ELECTRONICS INDUSTRIES ASSOCIATION (EIA)
- 3. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
- 4. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
- 5. NATIONAL ELECTRICAL TESTING ASSOCIATION (NETA)
- 6. UNDERWRITER LABORATORIES (UL)
- 7. CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT STANDARDS (CAL/OSHA)

SHEET INDEX

E0.1 SYMBOLS, ABBREVIATIONS, CODES, STANDARDS, EQUIPMENT ANCHORAGE, NOTES & SHEET INDEX. E1.1 PARTIAL ELECTRICAL SINGLE LINE DIAGRAM. DETAILS & PANELBOARD SCHEDULE.

- E2.1 ELECTRICAL SITE PLAN.
- E3.1 ELECTRICAL DEMOLITION PLANS BUILDINGS F & G.
- E4.1 ELECTRICAL ROOF PLANS BUILDINGS F & G.
- E4.2 POWER PLAN BUILDING F.
- FA0.1 FIRE ALARM SYMBOLS, ABBREVIATIONS, EQUIPMENT LIST, BATTERY CALCULATION, OPERATIONAL MATRIX, NOTES & FIRE ALARM RISER DIAGRAM.
- FA4.1 FIRE ALARM PLAN BUILDING F.





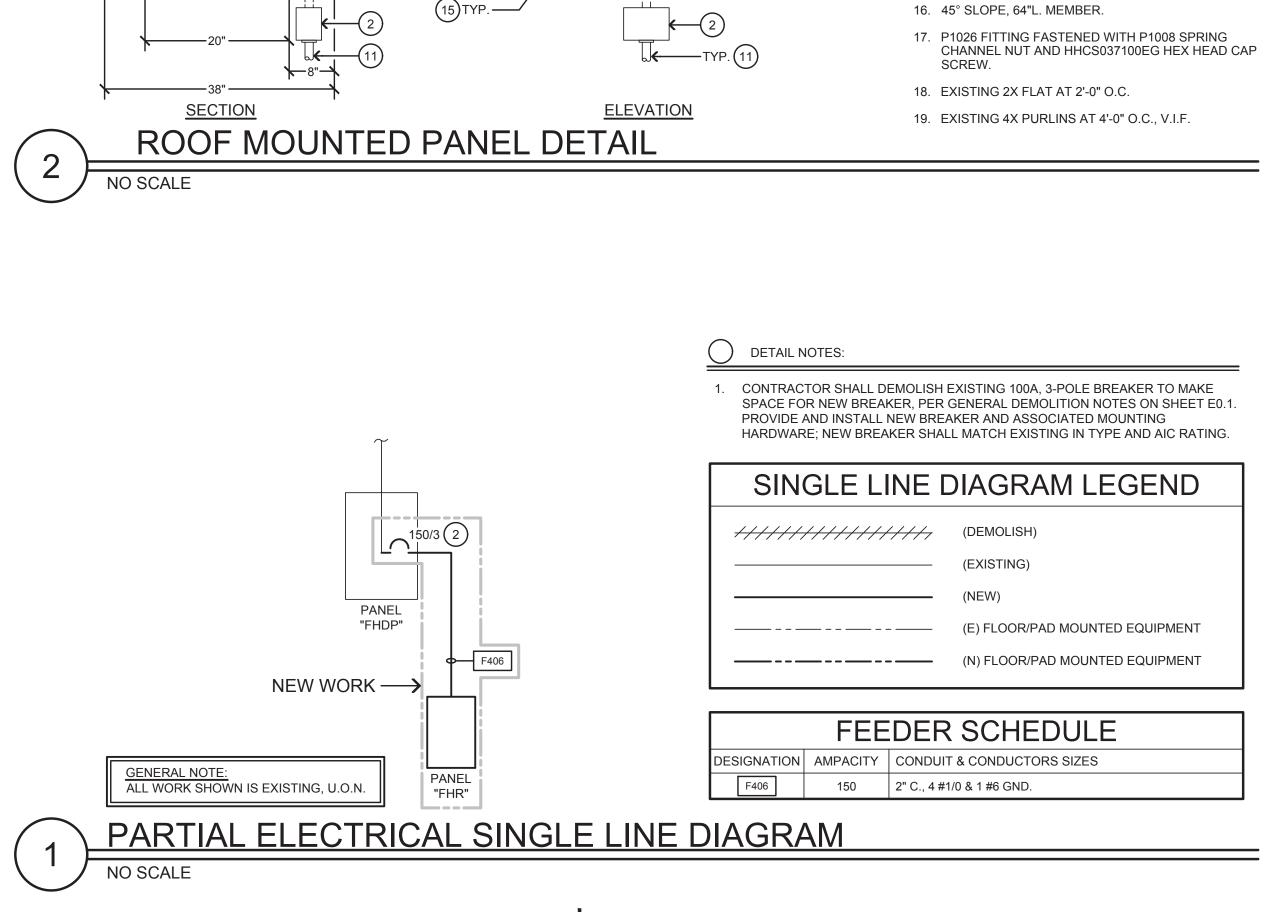
2 CONDUIT STRAP. 3 FINISHED ROOF. 4 4 x 4 SLEEPER, SET IN MASTIC. 5 RIGID STEEL CONDUITS. 6 PRESSURE TREATED LUMBER.

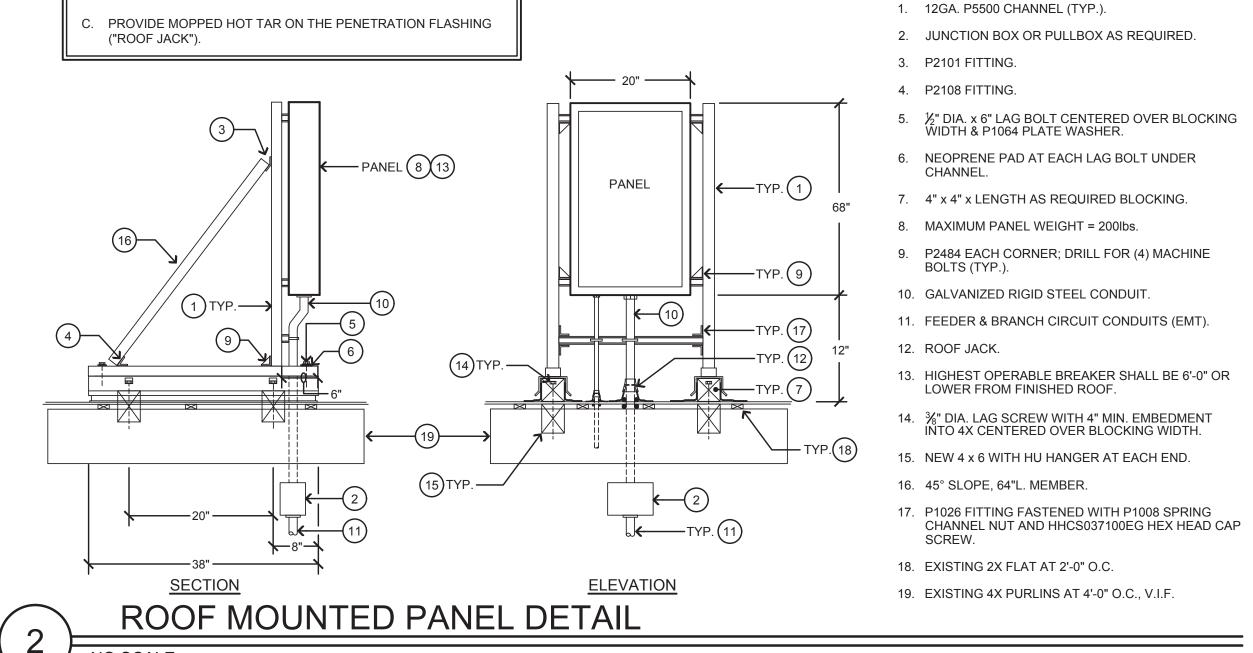
NO SCALE

2. 14 GA. RIGID CONDUIT CLAMP WITH RECESS HEX HEAD MACHINE SCREW AND SQUARE NUT COMBINATION. COPPER B-LINE B200 SERIES. 3. CLEAN EXISTING ROOF AREA AS REQUIRED. 4. ROOF STRUCTURE. 5. PROVIDE AND INSTALL CONDUIT SUPPORT PER CEC REQUIREMENTS. (3)**ROOF MOUNTED CONDUIT SUPPORT DETAIL** 3

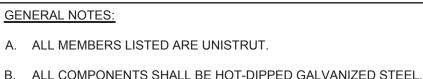
- 1. ROOF TOP CONDUIT SUPPORT; 5" x 6" x 9.5" WITH 1" HIGH 14 GA. GALVANIZED CHANNEL STRUT. COOPER B-LINE "DB" SERIES.
- DETAIL NOTES:

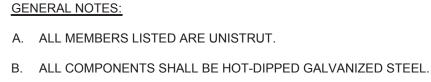
- ______ _____ /· DETAIL NOTES: 1. WEATHERPROOF CONDULET. 2. CONDUIT PER DRAWINGS. 3. PENETRATION FLASHING ("ROOF JACK") SET IN PREHEATED SURFACE. 4. 3" WIDE ELASTOMERIC FLASHING STRIP OR NON-HARDENING MASTIC. 5. STAGGERED NAILING. 6. MOPPED HOT TAR. 7. PROVIDE FIRE STOPPING MATERIAL SIMILAR TO U.L. FC 1002 REQUIREMENTS. CONDUIT PENETRATION DETAIL NO SCALE

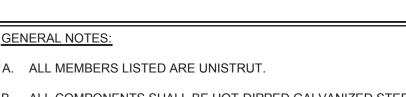


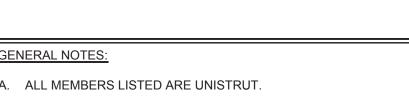


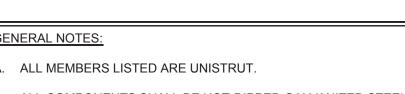
GENERAL NOTES:	
A. ALL MEMBERS LISTED ARE UNISTRUT.	





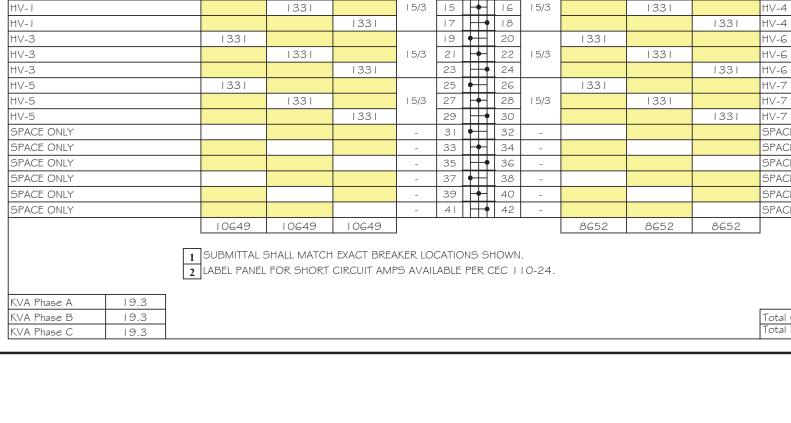


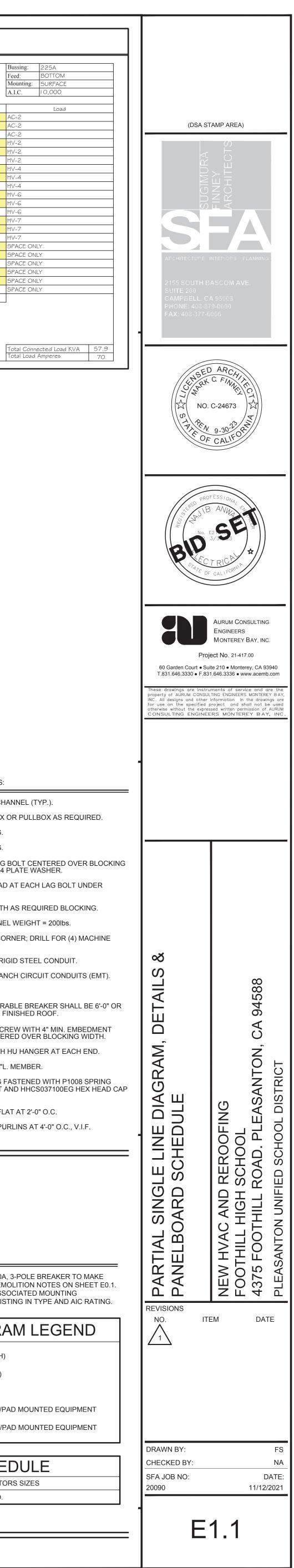


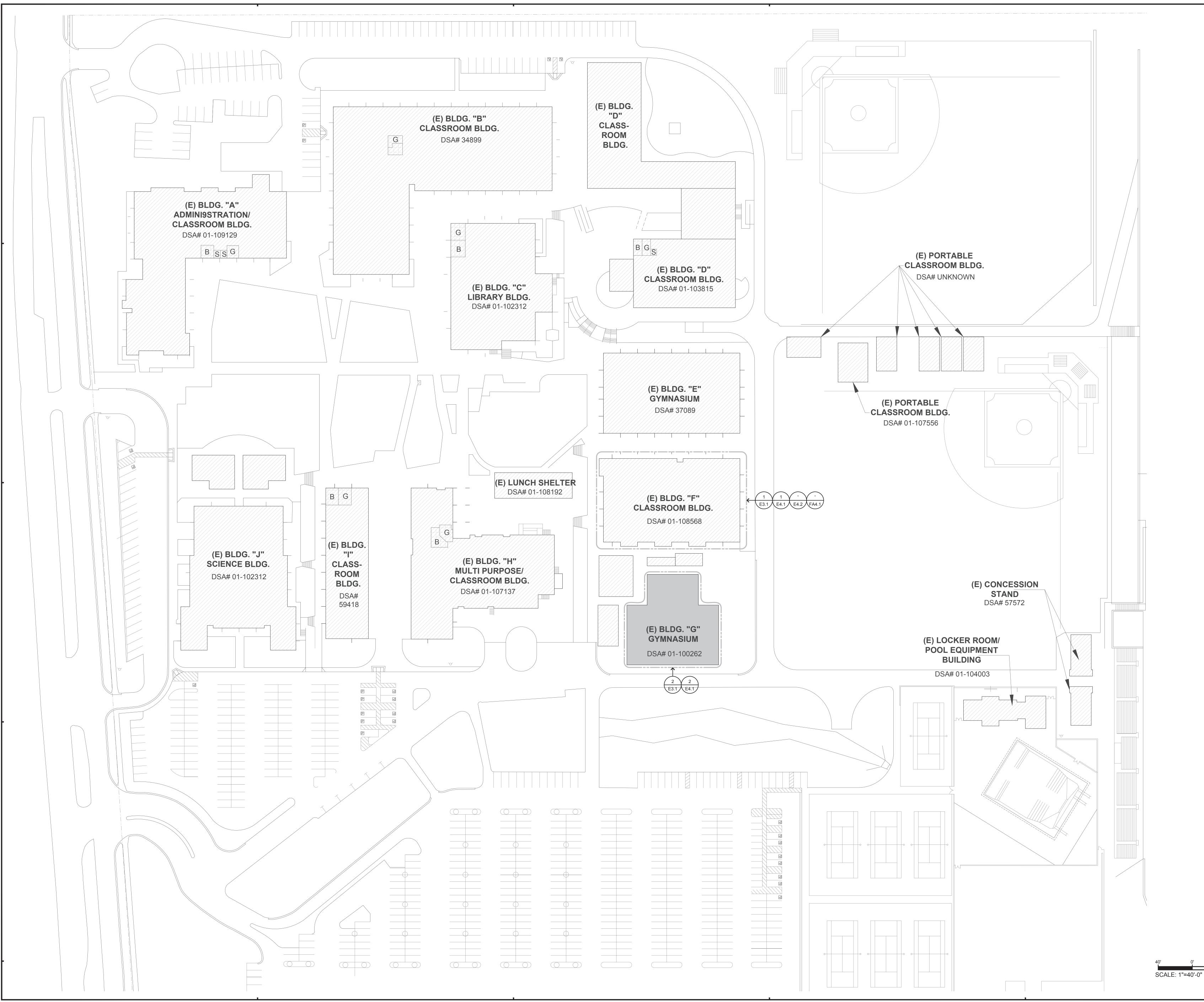




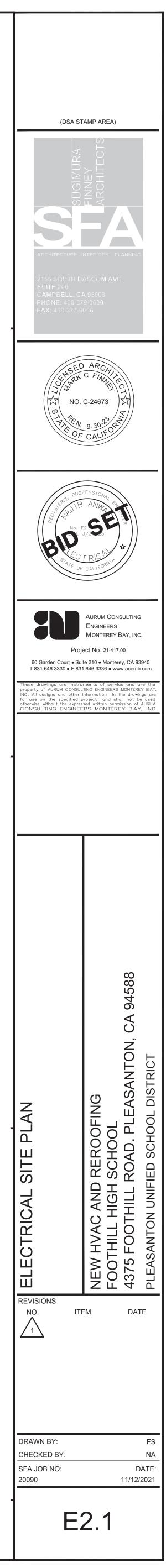




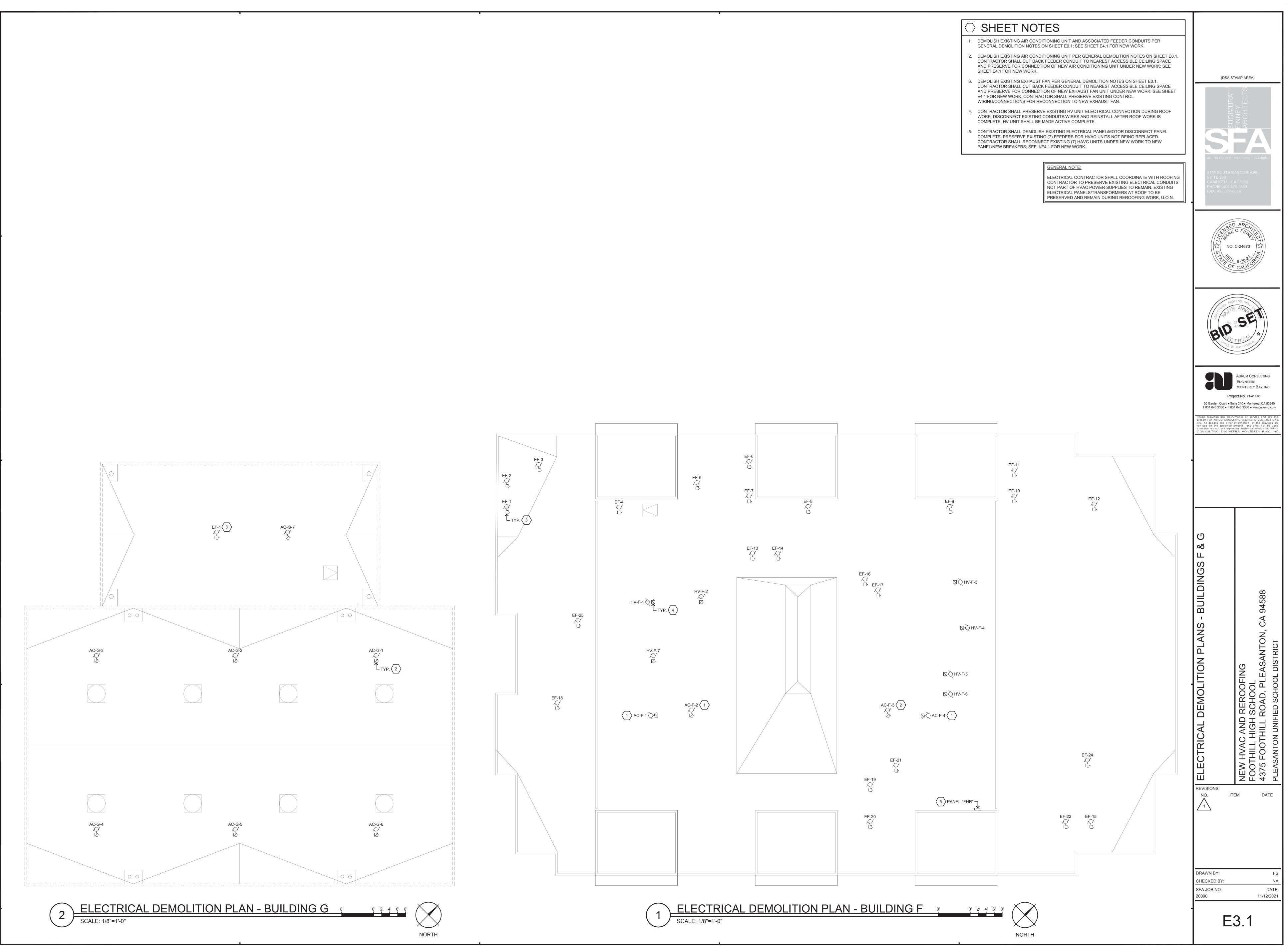


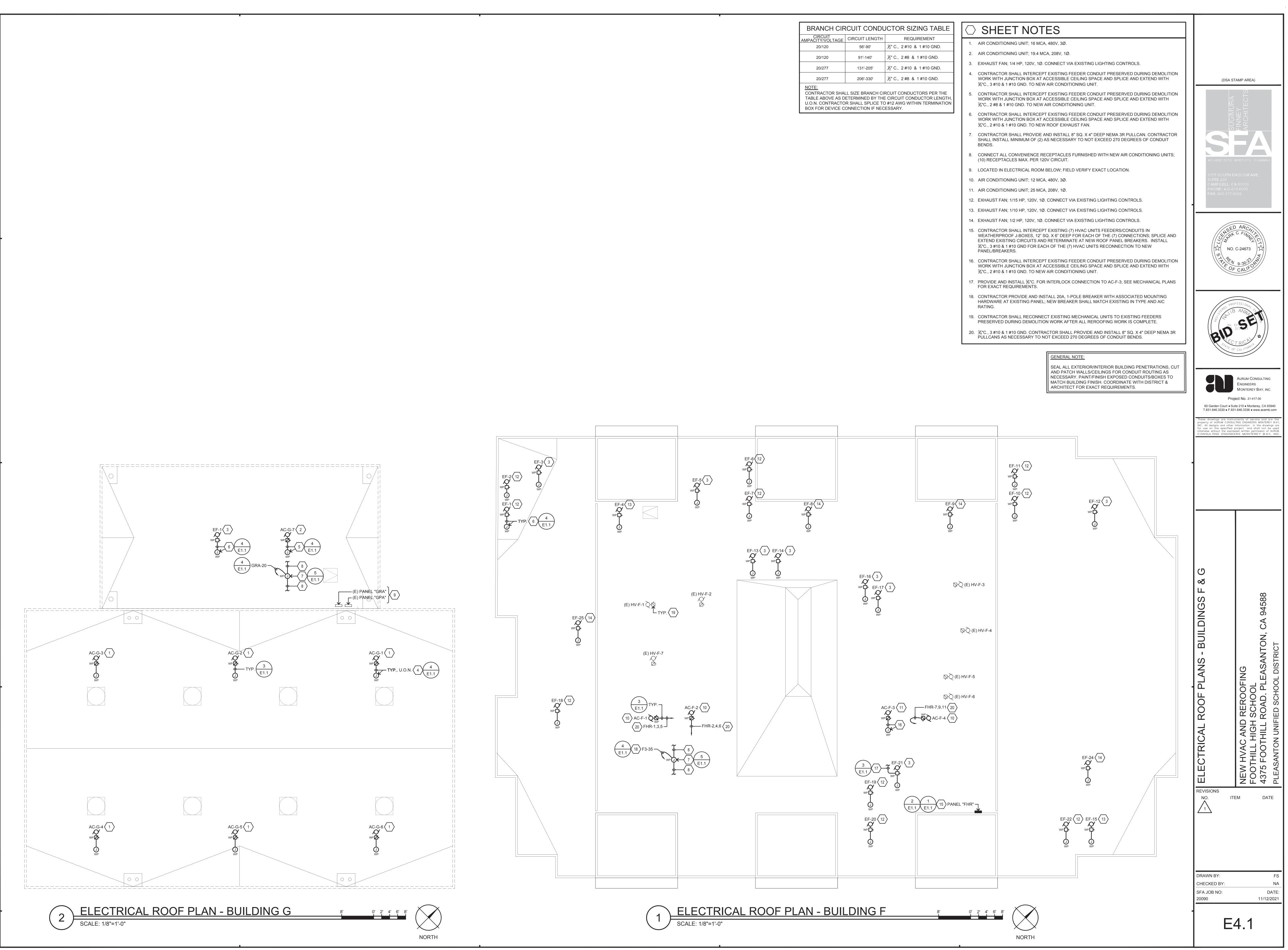


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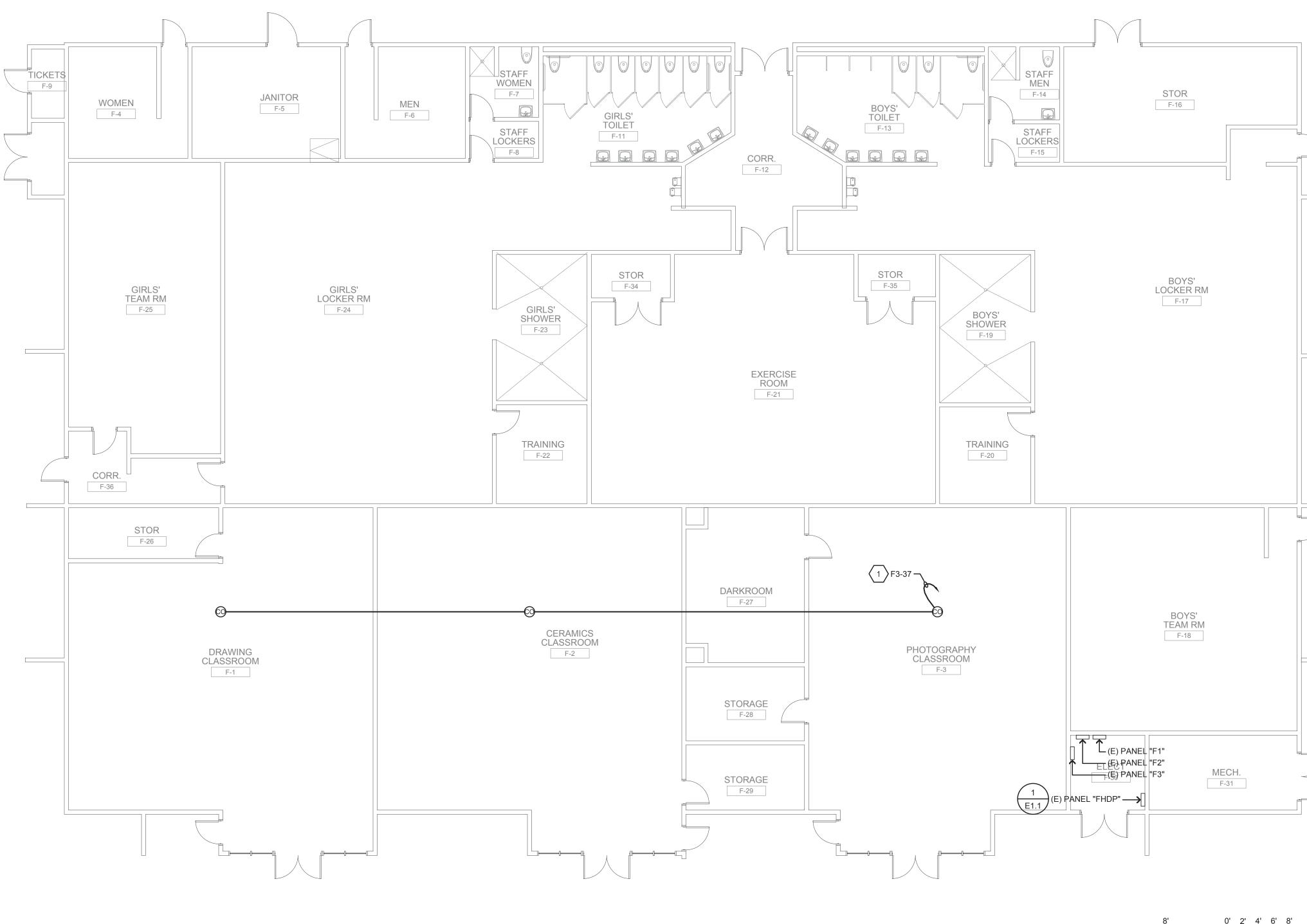








BRANCH CIR	CUIT CONDU	JCTOR SIZING TABLE
CIRCUIT AMPACITY/VOLTAGE	CIRCUIT LENGTH	REQUIREMENT
20/120	56'-90'	½" C., 2 #10 & 1 #10 GND.
20/120	91'-140'	½" C., 2 #8 & 1 #10 GND.
20/277	131'-205'	½" C., 2 #10 & 1 #10 GND.
20/277	206'-330'	½" C., 2 #8 & 1 #10 GND.
TABLE ABOVE AS D	ETERMINED BY THE	RCUIT CONDUCTORS PER THE E CIRCUIT CONDUCTOR LENGTH,) #12 AWG WITHIN TERMINATION ESSARY.



BRANCH CIF	RCUIT CONDU	JCTOR SIZING TABLE
CIRCUIT AMPACITY/VOLTAGE	CIRCUIT LENGTH	REQUIREMENT
20/120	56'-90'	½" C., 2 #10 & 1 #10 GND.
20/120	91'-140'	½" C., 2 #8 & 1 #10 GND.
20/277	131'-205'	½" C., 2 #10 & 1 #10 GND.
20/277	206'-330'	½" C., 2 #8 & 1 #10 GND.
TABLE ABOVE AS D	ETERMINED BY THE	RCUIT CONDUCTORS PER THE E CIRCUIT CONDUCTOR LENGTH,) #12 AWG WITHIN TERMINATION ESSARY.

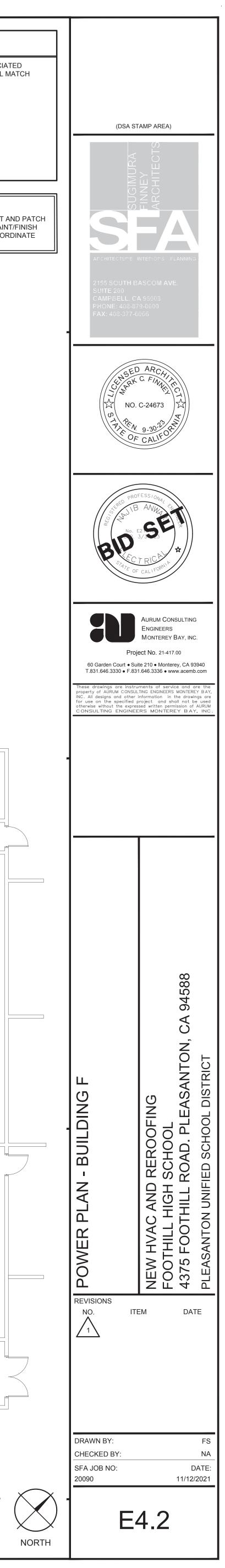
○ SHEET NOTES

 CONTRACTOR SHALL PROVIDE AND INSTALL 20 AMP, 1-POLE BREAKER WITH ASSOCIATED MOUNTING HARDWARE AND LOCK ON DEVICE, RED IN COLOR; NEW BREAKER SHALL MATCH EXISTING IN RATING AND TYPE.

GENERAL NOTE:

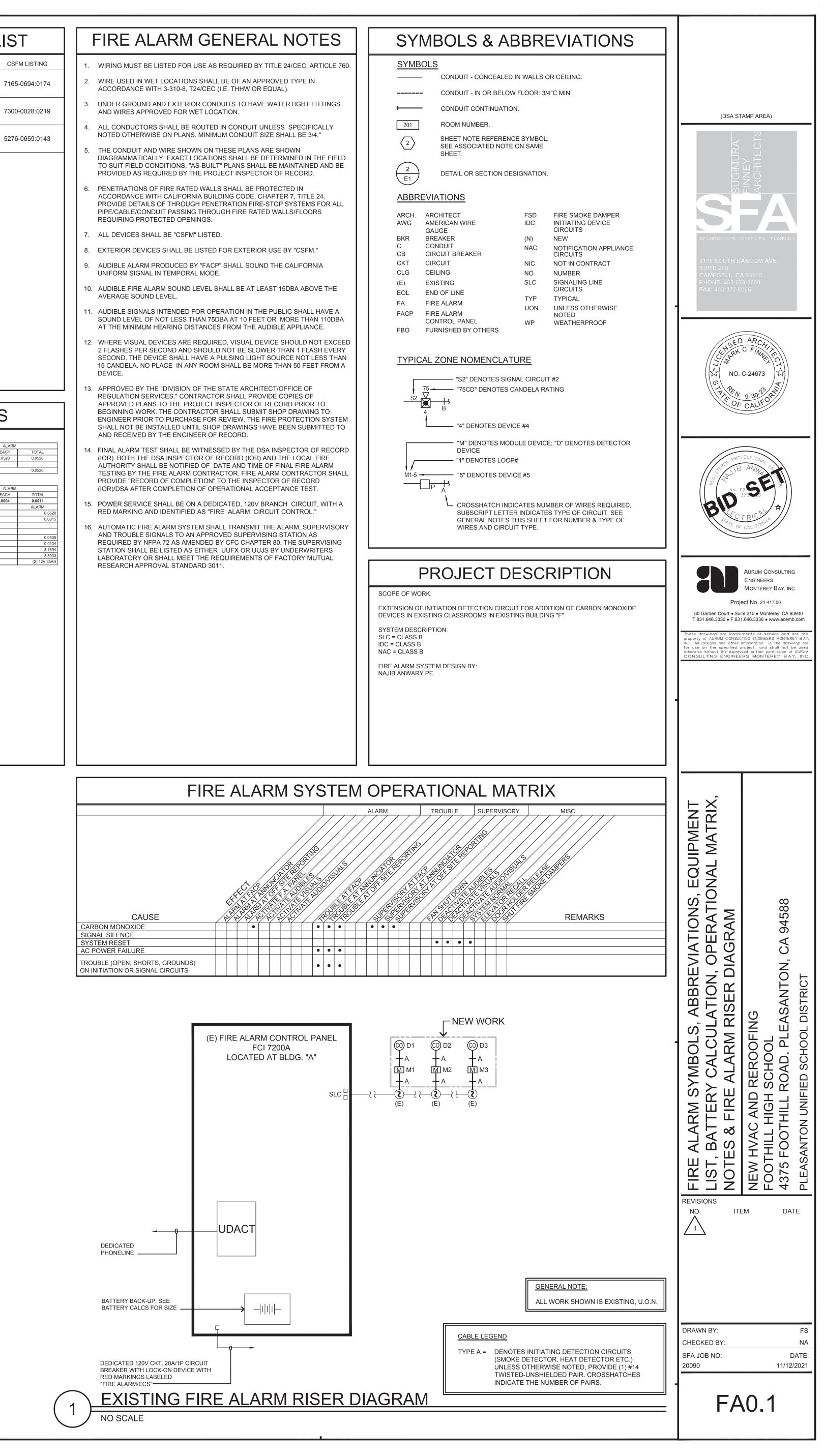
SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS, CUT AND PATCH WALLS/CEILINGS FOR CONDUIT ROUTING AS NECESSARY. PAINT/FINISH EXPOSED CONDUITS/BOXES TO MATCH BUILDING FINISH. COORDINATE WITH DISTRICT & ARCHITECT FOR EXACT REQUIREMENTS.

> 8' 0' 2' 4' 6' 8' SCALE: 1/8"=1'-0"



	FIRE ALARM EQUI	PMENT	LIS
SYMBOL	DESCRIPTION AND MODEL NUMBER	MFGR'S PART No.	С
FACP	(E) ANALOG FIRE ALARM CONTROL PANEL, FIRE CONTROL INSTRUMENTS 7200 SERIES.	FCI 7200A	71
Μ	ADDRESSABLE MONITOR MODULE, NOTIFIER FMM SERIES.	FMM-1	73
0	CARBON MONOXIDE DETECTOR WITH CONTACT RELAY WITH SOUNDER BASE (TEMPORAL 4 PATTERN), GENTEX CO1209.	CO1209	52

TY PRODUCT ID I FCI 7200A	DESCRIPTION (E) PRIMARY INPUT POWER UNIT PANEL STANDBY CURRENT PANEL ALARM CURRENT	STANDBY EACH 0.1300	TOTAL 0.1300 0.1300	ALAI EACH 0.0520
TY PRODUCT	PANEL STANDBY CURRENT PANEL ALARM CURRENT	0.1300	L	0.0520
	PANEL ALARM CURRENT		0.1300	
	FIELD DEVICES		r	
1 10	DESCRIPTION	STANDBY	TOTAL	ALAF
		EACH	TOTAL	EACH
FMM-1	ADDRESSABLE MONITOR MODULE	0.0004	0.0011	0.0004
	DESCRIPTION		STANDBY	
			0.1300	
	FIELD DEVICES		0.0015	
	TOTAL STANDBY CURRENT		0.1315	
	X 24 HOUR STANDBY		3.1560	
	15 MINUTES OF ALARM (X .25)			
	TOTAL BATTERY REQUIREMENT			
	SAFETY MARGIN (20%)			
	BATTERY SUPPLIED			





CABLE LEGEND

TYPE A = DENOTES INITIATING DETECTION CIRCUITS (SMOKE DETECTOR, HEAT DETECTOR ETC.) UNLESS OTHERWISE NOTED, PROVIDE (1) #14 TWISTED-UNSHIELDED PAIR. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

> 8' 0' 2' 4' 6' 8' SCALE: 1/8"=1'-0"

