ALTERATIONS TO BUILDING A AT UNIVERSITY ES @ LA FIESTA

HVAC REPLACEMENT

8511 LIMAN WAY, ROHNERT PARK, CA 94928

COTATI-ROHNERT PARK UNIFIED SCHOOL DISTRICT

DSA FILE NO: 49-17 **DSA APPLICATION NO:** 01-120920 **PTN:** 73882-47

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REVIEWED FOR
SS FLS ACS DATE: 8/22/2023

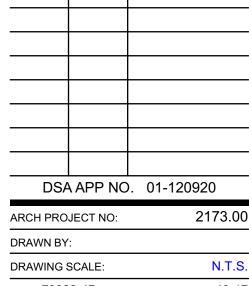


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CD	
JULY 19.	2023

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COVER SHEET

SHEET NUMB

G-0.1

ABBREVIATIONS

&				
<	AND ANGLE	FE FEC	FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET	PLAS PLF
@	AT	FF	FINISH FLOOR	PLYWD
C	CENTERLINE	FG	FINISH GRADE	P.O.C.
	FEET INCHES	FGL FH	FIBERGLAS FIRE HYDRANT	PR PROP
d	PENNY	FHMS	FLAT HEAD MACHINE SCREW	PSF
P 	PLATE/ PROPERTY LINE	FHS	FIRE HOSE STATION	PSI
# AB	POUND/ NUMBER ANCHOR BOLT	FHWS FIN	FLAT HEAD WOOD SCREW FINISH	PT PTDF
ABBREV	ABBREVIATION	FIXT	FIXTURE	
AC	ASPHALT CONCRETE	FL	FLOOR LINE	PTN
A/C ACC	AIR CONDITIONING ACCESSIBLE	FLASH FLUOR	FLASHING FLUORESCENT	PTR PVC
ACOUS	ACOUSTICAL	FLR	FLOOR	PVMT
AC T	ACOUSTICAL TILE	FM / FOM	FACE OF MASONRY	R
AD ADJ	AREA DRAIN ADJUSTABLE	FN FOB	FACE NAIL FACE OF BUILDING	R / RAD
A.F.F.	ABOVE FINISH FLOOR	FOC	FACE OF CONCRETE	RB RD
AGG	AGGREGATE	FOF	FACE OF STUD	REF
ALUM ANOD	ALUMINUM ANODIZED	FOS FRMG	FACE OF STUD FRAMING	REFR
APPROX	APPROXIMATE	FR	FIRE-RESISTANT	REG REQ
ARCH	ARCHITECTURAL	FRP	FIBERGLASS REINFORCED	REINF
ASPH	ASPHALT	FT	PANEL FEET	RAF
BD	BOARD	FTG	FOOTING	RH RHMS
BITUM BLDG	BITUMINOUS BUILDING	FURR	FURRING	RHWS
BLK	BLOCK	FUT	FUTURE	RM
BLKG	BLOCKING	GA	GAUGE	RO RWL
BM BOT	BEAM BOTTOM	GALV	GALVANIZED	RWD
ВО	BY OWNER	GB GC	GRAB BAR GENERAL CONTRACTOR	S
BRK	BREAK	GI	GALVANIZED IRON	S.A.D.
BRG BRZ	BEARING BRONZE	GL	GLASS/ GLAZING	S BLK
BTWN	BETWEEN	GLB GND	GLUE LAMINATED BEAM	SC S.C.D.
BU	BUILT-UP	GR	GROUND GRADE	SCHED
BUR	BUILT-UP ROOFING	GYP BD	GYPSUM BOARD	SD
С	CARPET	НВ	HOSE BIBB	SC SECT
С	AB CABINET	HC	HOLLOW CORE	SECT S.E.D.
СВ	CATCH BASIN	HDR	HEADER	SEP
CEM CER	CEMENT CERAMIC	HDWD HDWR	HARDWOOD HARDWARE	SHR
CH	COAT HOOK	HM	HOLLOW METAL	SHTG SIM
CI	CAST IRON	HORIZ	HORIZONTAL	S.K.E.D
CIR	CIRCLE	HP	HIGH POINT	SL
CJ CORR	CONTROL JOINT CORRIDOR	HR HT	HOUR HEIGHT	S.L.D.
CL	CLOSET/ CENTER LINE	HTG	HEATING	SM S.M.D.
CLG	CEILING	HVAC	HEATING, VENTILATING,	SND
CLR	CLEAR		AIR-CONDITIONING	SNR
CLS CMU	CLOSURE CONCRETE MASONRY UNIT	ID	INSIDE DIAMETER	SOG SOV
CO	CLEANOUT	INSUL INT	INSULATION INTERIOR	SPEC
COL	COLUMN	INTEG	INTERIOR	SPKR
COMB COMP	COMBINATION COMPOSITION	INTERMED	INTERMEDIATE	SQ
CONC	CONCRETE	INV	INVERT	SS S.S.D.
CONN	CONNECTION	JH	JOIST HANGER	STA
CONST	CONSTRUCTION	JST JT	JOIST JOINT	STD
CONT CONTR	CONTINUOUS CONTRACTOR	JI	30111	S.T.D. STL
CT	CERAMIC TILE	KIT	KITCHEN	STN
CTR	CENTER	KP	KICK PLATE	STOR
CTSK CUST	COUNTERSINK CUSTODIAN	LAB	LABORATORY	STRUCT
CW	COLD WATER	LAM LAV	LAMINATE LAVATORY	SUSP SYM
CVV		L/ \V	LAG BOLT	•
CVV		LB		_
DBL	DOUBLE	LH	LEFT HAND	T T&B
DBL DEPT	DEPARTMENT	LH LL	LIVE LOAD	T T&B TC
DBL		LH		T&B TC TEL
DBL DEPT DET	DEPARTMENT DETAIL DRINKING FOUNTAIN DECOMPOSED	LH LL LP LT MAS	LIVE LOAD LOW POINT LIGHT MASONRY	T&B TC TEL TEM
DBL DEPT DET DF DG	DEPARTMENT DETAIL DRINKING FOUNTAIN DECOMPOSED GRANITE	LH LL LP LT MAS MAT	LIVE LOAD LOW POINT LIGHT MASONRY MATERIAL	T&B TC TEL
DBL DEPT DET DF	DEPARTMENT DETAIL DRINKING FOUNTAIN DECOMPOSED	LH LL LP LT MAS	LIVE LOAD LOW POINT LIGHT MASONRY	T&B TC TEL TEM TER T&G TH
DBL DEPT DET DF DG DI DIA DIAG	DEPARTMENT DETAIL DRINKING FOUNTAIN DECOMPOSED GRANITE DRAIN INLET DIAMETER DIAGONAL	LH LL LP LT MAS MAT MAX MB MBR	LIVE LOAD LOW POINT LIGHT MASONRY MATERIAL MAXIMUM MACHINE BOLT MODIFIED BITUMEN ROOFING	T&B TC TEL TEM TER T&G TH THRU
DBL DEPT DET DF DG DI DIA DIAG DIM	DEPARTMENT DETAIL DRINKING FOUNTAIN DECOMPOSED GRANITE DRAIN INLET DIAMETER DIAGONAL DIMENSION	LH LL LP LT MAS MAT MAX MB MBR MC	LIVE LOAD LOW POINT LIGHT MASONRY MATERIAL MAXIMUM MACHINE BOLT MODIFIED BITUMEN ROOFING MEDICINE CABINET	T&B TC TEL TEM TER T&G TH THRU
DBL DEPT DET DF DG DI DIA DIAG	DEPARTMENT DETAIL DRINKING FOUNTAIN DECOMPOSED GRANITE DRAIN INLET DIAMETER DIAGONAL	LH LL LP LT MAS MAT MAX MB MBR	LIVE LOAD LOW POINT LIGHT MASONRY MATERIAL MAXIMUM MACHINE BOLT MODIFIED BITUMEN ROOFING	T&B TC TEL TEM TER T&G TH THRU TJ TN T.O.D.
DBL DEPT DET DF DG DI DIA DIAG DIM DISP DIV DN	DEPARTMENT DETAIL DRINKING FOUNTAIN DECOMPOSED GRANITE DRAIN INLET DIAMETER DIAGONAL DIMENSION DISPOSAL DIVISION DOWN	LH LL LP LT MAS MAT MAX MB MBR MC MECH MED MEMB	LIVE LOAD LOW POINT LIGHT MASONRY MATERIAL MAXIMUM MACHINE BOLT MODIFIED BITUMEN ROOFING MEDICINE CABINET MECHANICAL MEDIUM MEMBRANE	T&B TC TEL TEM TER T&G TH THRU TJ TN T.O.D. T.O.L.
DBL DEPT DET DF DG DI DIA DIAG DIM DISP DIV DN DO	DEPARTMENT DETAIL DRINKING FOUNTAIN DECOMPOSED GRANITE DRAIN INLET DIAMETER DIAGONAL DIMENSION DISPOSAL DIVISION DOWN DOOR OPENING	LH LL LP LT MAS MAT MAX MB MBR MC MECH MED MEMB MFR	LIVE LOAD LOW POINT LIGHT MASONRY MATERIAL MAXIMUM MACHINE BOLT MODIFIED BITUMEN ROOFING MEDICINE CABINET MECHANICAL MEDIUM MEMBRANE MANUFACTURER	T&B TC TEL TEM TER T&G TH THRU TJ TN T.O.D.
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DBL DEPT DET DF DG DI DIA DIAG DIM DISP DIV DN DO DIR DR DR	DEPARTMENT DETAIL DRINKING FOUNTAIN DECOMPOSED GRANITE DRAIN INLET DIAMETER DIAGONAL DIMENSION DISPOSAL DIVISION DOWN DOOR OPENING DIRECTLY DOOR DOWN SPOUT	LH LL LP LT MAS MAT MAX MB MBR MC MECH MED MEMB MFR MH MIN MIN MIR	LIVE LOAD LOW POINT LIGHT MASONRY MATERIAL MAXIMUM MACHINE BOLT MODIFIED BITUMEN ROOFING MEDICINE CABINET MECHANICAL MEDIUM MEMBRANE MANUFACTURER MANHOLE MINIMUM MIRROR	T&B TC TEL TEM TER T&G TH THRU TJ TN T.O.D. T.O.L. T.O.P. T.O.PL. T.O.R. T.O.W.
DBL DEPT DET DF DG DI DIA DIAG DIM DISP DIV DN DO DIR DR DS DSP	DEPARTMENT DETAIL DRINKING FOUNTAIN DECOMPOSED GRANITE DRAIN INLET DIAMETER DIAGONAL DIMENSION DISPOSAL DIVISION DOWN DOOR OPENING DIRECTLY DOOR DOWN SPOUT DRY STAND PIPE	LH LL LP LT MAS MAT MAX MB MBR MC MECH MED MEMB MFR MH MIN MIR MISC	LIVE LOAD LOW POINT LIGHT MASONRY MATERIAL MAXIMUM MACHINE BOLT MODIFIED BITUMEN ROOFING MEDICINE CABINET MECHANICAL MEDIUM MEMBRANE MANUFACTURER MANHOLE MINIMUM MIRROR MISCELLANEOUS	T&B TC TEL TEM TER T&G TH THRU TJ TN T.O.D. T.O.L. T.O.P. T.O.PL. T.O.R.
DBL DEPT DET DF DG DI DIA DIAG DIM DISP DIV DN DO DIR DR DS DSP DT	DEPARTMENT DETAIL DRINKING FOUNTAIN DECOMPOSED GRANITE DRAIN INLET DIAMETER DIAGONAL DIMENSION DISPOSAL DIVISION DOWN DOOR OPENING DIRECTLY DOOR DOWN SPOUT DRY STAND PIPE DRAIN TILE	LH LL LP LT MAS MAT MAX MB MBR MC MECH MED MEMB MFR MH MIN MIR MISC MO	LIVE LOAD LOW POINT LIGHT MASONRY MATERIAL MAXIMUM MACHINE BOLT MODIFIED BITUMEN ROOFING MEDICINE CABINET MECHANICAL MEDIUM MEMBRANE MANUFACTURER MANHOLE MINIMUM MIRROR MISCELLANEOUS MASONRY OPENING	T&B TC TEL TEM TER T&G TH THRU TJ TN T.O.D. T.O.L. T.O.P. T.O.PL. T.O.R. T.O.W. T.P.
DBL DEPT DET DF DG DI DIA DIAG DIM DISP DIV DN DO DIR DR DS DSP	DEPARTMENT DETAIL DRINKING FOUNTAIN DECOMPOSED GRANITE DRAIN INLET DIAMETER DIAGONAL DIMENSION DISPOSAL DIVISION DOWN DOOR OPENING DIRECTLY DOOR DOWN SPOUT DRY STAND PIPE	LH LL LP LT MAS MAT MAX MB MBR MC MECH MED MEMB MFR MH MIN MIN MIR MISC MO MOD MR	LIVE LOAD LOW POINT LIGHT MASONRY MATERIAL MAXIMUM MACHINE BOLT MODIFIED BITUMEN ROOFING MEDICINE CABINET MECHANICAL MEDIUM MEMBRANE MANUFACTURER MANHOLE MINIMUM MIRROR MISCELLANEOUS	T&B TC TEL TEM TER T&G TH THRU TJ TN T.O.D. T.O.L. T.O.P. T.O.PL. T.O.R. T.O.W. T.P. TPD TRN TRANS
DBL DEPT DET DF DG DI DIA DIAG DIM DISP DIV DN DO DIR DC DIR DC	DEPARTMENT DETAIL DRINKING FOUNTAIN DECOMPOSED GRANITE DRAIN INLET DIAMETER DIAGONAL DIMENSION DISPOSAL DIVISION DOWN DOOR OPENING DIRECTLY DOOR DOWN SPOUT DRY STAND PIPE DRAIN TILE DISHWASHER	LH LL LP LT MAS MAT MAX MB MBR MC MECH MED MEMB MFR MH MIN MIN MIR MISC MO MOD MR MTD	LIVE LOAD LOW POINT LIGHT MASONRY MATERIAL MAXIMUM MACHINE BOLT MODIFIED BITUMEN ROOFING MEDICINE CABINET MECHANICAL MEDIUM MEMBRANE MANUFACTURER MANHOLE MINIMUM MIRROR MISCELLANEOUS MASONRY OPENING MODULAR MOISTURE RESISTANT MOUNTED	T&B TC TEL TEM TER T&G TH THRU TJ TN T.O.D. T.O.L. T.O.P. T.O.PL. T.O.R. T.O.W. T.P. TPD TRN TRANS TS
DBL DEPT DET DF DG DI DIA DIAG DIM DISP DIV DN DO DIR DR DS DSP DT DW DWG	DEPARTMENT DETAIL DRINKING FOUNTAIN DECOMPOSED GRANITE DRAIN INLET DIAMETER DIAGONAL DIMENSION DISPOSAL DIVISION DOWN DOOR OPENING DIRECTLY DOOR DOWN SPOUT DRY STAND PIPE DRAIN TILE DISHWASHER DRAWING	LH LL LP LT MAS MAT MAX MB MBR MC MECH MED MEMB MFR MH MIN MIR MISC MO MOD MR MTD MTL	LIVE LOAD LOW POINT LIGHT MASONRY MATERIAL MAXIMUM MACHINE BOLT MODIFIED BITUMEN ROOFING MEDICINE CABINET MECHANICAL MEDIUM MEMBRANE MANUFACTURER MANHOLE MINIMUM MIRROR MISCELLANEOUS MASONRY OPENING MODULAR MOISTURE RESISTANT MOUNTED METAL	T&B TC TEL TEM TER T&G TH THRU TJ TN T.O.D. T.O.L. T.O.P. T.O.PL. T.O.R. T.O.W. T.P. TPD TRN TRANS
DBL DEPT DET DF DG DI DIA DIAG DIM DISP DIV DN DO DIR DR DS DSP DT DW DWG DWR E (E)	DEPARTMENT DETAIL DRINKING FOUNTAIN DECOMPOSED GRANITE DRAIN INLET DIAMETER DIAGONAL DIMENSION DISPOSAL DIVISION DOWN DOOR OPENING DIRECTLY DOOR DOWN SPOUT DRY STAND PIPE DRAIN TILE DISHWASHER DRAWING DRAWER EAST EXISTING	LH LL LP LT MAS MAT MAX MB MBR MC MECH MED MEMB MFR MH MIN MIR MISC MO MOD MR MTD MTL MUL	LIVE LOAD LOW POINT LIGHT MASONRY MATERIAL MAXIMUM MACHINE BOLT MODIFIED BITUMEN ROOFING MEDICINE CABINET MECHANICAL MEDIUM MEMBRANE MANUFACTURER MANHOLE MINIMUM MIRROR MISCELLANEOUS MASONRY OPENING MODULAR MOUNTED METAL MULLION	T&B TC TEL TEM TER T&G TH THRU TJ TN T.O.D. T.O.L. T.O.P. T.O.PL. T.O.R. T.O.W. T.P. TPD TRN TRANS TS TUB TV TW
DBL DEPT DET DF DG DI DIA DIAG DIM DISP DIV DN DO DIR DR DS DSP DT DW DWG DWG DWR E (E) EA	DEPARTMENT DETAIL DRINKING FOUNTAIN DECOMPOSED GRANITE DRAIN INLET DIAMETER DIAGONAL DIMENSION DISPOSAL DIVISION DOWN DOOR OPENING DIRECTLY DOOR DOWN SPOUT DRY STAND PIPE DRAIN TILE DISHWASHER DRAWING DRAWER EAST EXISTING EACH	LH LL LP LT MAS MAT MAX MB MBR MC MECH MED MEMB MFR MH MIN MIR MISC MO MOD MR MTD MTL MUL N (N)	LIVE LOAD LOW POINT LIGHT MASONRY MATERIAL MAXIMUM MACHINE BOLT MODIFIED BITUMEN ROOFING MEDICINE CABINET MECHANICAL MEDIUM MEMBRANE MANUFACTURER MANHOLE MINIMUM MIRROR MISCELLANEOUS MASONRY OPENING MODULAR MOISTURE RESISTANT MOUNTED METAL	T&B TC TEL TEM TER T&G TH THRU TJ TN T.O.D. T.O.L. T.O.P. T.O.PL. T.O.R. T.O.W. T.P. TPD TRN TRANS TS TUB TV
DBL DEPT DET DF DG DI DIA DIAG DIM DISP DIV DN DO DIR DR DS DSP DT DW DWG DWR E (E)	DEPARTMENT DETAIL DRINKING FOUNTAIN DECOMPOSED GRANITE DRAIN INLET DIAMETER DIAGONAL DIMENSION DISPOSAL DIVISION DOWN DOOR OPENING DIRECTLY DOOR DOWN SPOUT DRY STAND PIPE DRAIN TILE DISHWASHER DRAWING DRAWER EAST EXISTING	LH LL LP LT MAS MAT MAX MB MBR MC MECH MED MEMB MFR MIN MIN MIR MISC MO MOD MR MTD MTL MUL N (N) NAT	LIVE LOAD LOW POINT LIGHT MASONRY MATERIAL MAXIMUM MACHINE BOLT MODIFIED BITUMEN ROOFING MEDICINE CABINET MECHANICAL MEDIUM MEMBRANE MANUFACTURER MANHOLE MINIMUM MIRROR MISCELLANEOUS MASONRY OPENING MODULAR MOISTURE RESISTANT MOUNTED METAL MULLION NORTH NEW NATURAL	T&B TC TEL TEM TER T&G TH THRU TJ TN T.O.D. T.O.L. T.O.P. T.O.PL. T.O.R. T.O.W. T.P. TPD TRN TRANS TS TUB TV TW TYP UNF
DBL DEPT DET DF DG DI DIA DIAG DIM DISP DIV DN DO DIR DR DS DSP DT DW DWG DWG DWR E (E) EA EB EE	DEPARTMENT DETAIL DRINKING FOUNTAIN DECOMPOSED GRANITE DRAIN INLET DIAMETER DIAGONAL DIMENSION DISPOSAL DIVISION DOWN DOOR OPENING DIRECTLY DOOR DOWN SPOUT DRY STAND PIPE DRAIN TILE DISHWASHER DRAWING DRAWER EAST EXISTING EACH EXPANSION BOLT EACH END EXHAUST FAN	LH LL LP LT MAS MAT MAX MB MBR MC MECH MED MEMB MFR MIN MIN MIR MISC MO MOD MR MTD MTL MUL N (N) NAT N.I.C.	LIVE LOAD LOW POINT LIGHT MASONRY MATERIAL MAXIMUM MACHINE BOLT MODIFIED BITUMEN ROOFING MEDICINE CABINET MECHANICAL MEDIUM MEMBRANE MANUFACTURER MANHOLE MINIMUM MIRROR MISCELLANEOUS MASONRY OPENING MODULAR MOISTURE RESISTANT MOUNTED METAL MULLION NORTH NEW NATURAL NOT IN CONTRACT	T&B TC TEL TEM TER T&G TH THRU TJ TN T.O.D. T.O.L. T.O.P. T.O.PL. T.O.W. T.P. TPD TRN TRANS TS TUB TV TW TYP UNF U.O.N.
DBL DEPT DET DF DG DI DIA DIAG DIM DISP DIV DN DO DIR DR DS DSP DT DW DWG DWG DWR E (E) EA EB EE EF EJ	DEPARTMENT DETAIL DRINKING FOUNTAIN DECOMPOSED GRANITE DRAIN INLET DIAMETER DIAGONAL DIMENSION DISPOSAL DIVISION DOWN DOOR OPENING DIRECTLY DOOR DOWN SPOUT DRY STAND PIPE DRAIN TILE DISHWASHER DRAWING DRAWER EAST EXISTING EACH EXPANSION BOLT EACH END EXHAUST FAN EXPANSION JOINT	LH LL LP LT MAS MAT MAX MB MBR MC MECH MED MEMB MFR MH MIN MIR MISC MO MOD MR MTD MTL MUL N (N) NAT N.I.C. NO NOM	LIVE LOAD LOW POINT LIGHT MASONRY MATERIAL MAXIMUM MACHINE BOLT MODIFIED BITUMEN ROOFING MEDICINE CABINET MECHANICAL MEDIUM MEMBRANE MANUFACTURER MANHOLE MINIMUM MIRROR MISCELLANEOUS MASONRY OPENING MODULAR MOISTURE RESISTANT MOUNTED METAL MULLION NORTH NEW NATURAL NOT IN CONTRACT NUMBER NOMINAL	T&B TC TEL TEM TER T&G TH THRU TJ TN T.O.D. T.O.L. T.O.P. T.O.PL. T.O.R. T.O.W. T.P. TPD TRN TRANS TS TUB TV TW TYP UNF
DBL DEPT DET DF DG DI DIA DIAG DIM DISP DIV DN DO DIR DS DSP DT DW DWG DWG DWR E (E) EA EB EE EF EJ EL	DEPARTMENT DETAIL DRINKING FOUNTAIN DECOMPOSED GRANITE DRAIN INLET DIAMETER DIAGONAL DIMENSION DISPOSAL DIVISION DOWN DOOR OPENING DIRECTLY DOOR DOWN SPOUT DRY STAND PIPE DRAIN TILE DISHWASHER DRAWING DRAWER EAST EXISTING EACH EXPANSION BOLT EACH END EXHAUST FAN EXPANSION JOINT ELEVATION GRADE	LH LL LP LT MAS MAT MAX MB MBR MC MECH MED MEMB MFR MH MIN MIR MISC MO MOD MR MTD MTL MUL N (N) NAT N.I.C. NO	LIVE LOAD LOW POINT LIGHT MASONRY MATERIAL MAXIMUM MACHINE BOLT MODIFIED BITUMEN ROOFING MEDICINE CABINET MECHANICAL MEDIUM MEMBRANE MANUFACTURER MANHOLE MINIMUM MIRROR MISCELLANEOUS MASONRY OPENING MODULAR MOISTURE RESISTANT MOUNTED METAL MULLION NORTH NEW NATURAL NOT IN CONTRACT NUMBER	T&B TC TEL TEM TER T&G TH THRU TJ TN T.O.D. T.O.L. T.O.P. T.O.PL. T.O.W. T.P. TPD TRN TRANS TS TUB TV TW TYP UNF U.O.N. UR UTIL
DBL DEPT DET DF DG DI DIA DIAG DIM DISP DIV DN DO DIR DR DS DSP DT DW DWG DWR E (E) EA EB EE EF EJ EL ELEC ELEV	DEPARTMENT DETAIL DRINKING FOUNTAIN DECOMPOSED GRANITE DRAIN INLET DIAMETER DIAGONAL DIMENSION DISPOSAL DIVISION DOWN DOOR OPENING DIRECTLY DOOR DOWN SPOUT DRY STAND PIPE DRAIN TILE DISHWASHER DRAWING DRAWER EAST EXISTING EACH EXPANSION BOLT EACH END EXHAUST FAN EXPANSION JOINT ELEVATION GRADE ELECTRICAL ELEVATION	LH LL LP LT MAS MAT MAX MB MBR MC MECH MED MEMB MFR MIN MIN MIR MISC MO MOD MR MTD MTL MUL N (N) NAT N.I.C. NO NOM N.T.S.	LIVE LOAD LOW POINT LIGHT MASONRY MATERIAL MAXIMUM MACHINE BOLT MODIFIED BITUMEN ROOFING MEDICINE CABINET MECHANICAL MEDIUM MEMBRANE MANUFACTURER MANHOLE MINIMUM MIRROR MISCELLANEOUS MASONRY OPENING MODULAR MOISTURE RESISTANT MOUNTED METAL MULLION NORTH NEW NATURAL NOT IN CONTRACT NUMBER NOMINAL NOT TO SCALE OVER	T&B TC TEL TEM TER T&G TH THRU TJ TN T.O.D. T.O.L. T.O.P. T.O.PL. T.O.W. T.P. TPD TRN TRANS TS TUB TV TW TYP UNF U.O.N. UR UTIL VB
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DBL DEPT DET DF DG DI DIA DIAG DIM DISP DIV DN DO DIR DR DS DSP DT DW DWG DWR E (E) EA EB EE EF EJ EL ELEC ELECV EMER EMT	DEPARTMENT DETAIL DRINKING FOUNTAIN DECOMPOSED GRANITE DRAIN INLET DIAMETER DIAGONAL DIMENSION DISPOSAL DIVISION DOWN DOOR OPENING DIRECTLY DOOR DOWN SPOUT DRY STAND PIPE DRAIN TILE DISHWASHER DRAWING DRAWER EAST EXISTING EACH EXPANSION BOLT EACH END EXHAUST FAN EXPANSION JOINT ELEVATION EMERGENCY ELECTRIC METALLIC TUBING	LH LL LP LT MAS MAT MAX MB MBR MC MECH MED MEMB MFR MIN MIN MISC MO MOD MR MTD MTL MUL N (N) NAT N.I.C. NO NOM N.T.S.	LIVE LOAD LOW POINT LIGHT MASONRY MATERIAL MAXIMUM MACHINE BOLT MODIFIED BITUMEN ROOFING MEDICINE CABINET MECHANICAL MEDIUM MEMBRANE MANUFACTURER MANHOLE MINIMUM MIRROR MISCELLANEOUS MASONRY OPENING MODULAR MOISTURE RESISTANT MOUNTED METAL MULLION NORTH NEW NATURAL NOT IN CONTRACT NUMBER NOMINAL NOT TO SCALE OVER OVERALL OBSCURE	T&B TC TEL TEM TER T&G TH THRU TJ TN T.O.D. T.O.L. T.O.P. T.O.PL. T.O.W. T.P. TPD TRN TRANS TS TUB TV TW TYP UNF U.O.N. UR UTIL VB VCT VERT VEST
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DBL DEPT DET DF DG DI DIAG DIM DISP DIV DN DO DIR DS DSP DT DW DWG DWR E (E) EA EB EE EF EJ EL ELEC ELEV EMER EMT ENCL EP EQ EQUIV ES EW EXH EXIST	DEPARTMENT DETAIL DRINKING FOUNTAIN DECOMPOSED GRANITE DRAIN INLET DIAMETER DIAGONAL DIMENSION DISPOSAL DIVISION DOWN DOOR OPENING DIRECTLY DOOR DOWN SPOUT DRY STAND PIPE DRAIN TILE DISHWASHER DRAWING DRAWER EAST EXISTING EACH EXPANSION BOLT EACH END EXHAUST FAN EXPANSION JOINT ELEVATION EMERGENCY ELECTRIC METALLIC TUBING ENCLOSURE ELECTRIC PANEL EQUIPMENT EQUIVALENT EACH SIDE EACH WAY EXHAUST EXISTING	LH LL LP LT MAS MAT MAX MB MBR MC MECH MED MEMB MFR MIN MISC MO MOD MR MTD MTL MUL N (N) NAT N.I.C. NO NOM N.T.S. O/ OA OBS OC OPP OPP OVHD QT	LIVE LOAD LOW POINT LIGHT MASONRY MATERIAL MAXIMUM MACHINE BOLT MODIFIED BITUMEN ROOFING MEDICINE CABINET MECHANICAL MEDIUM MEMBRANE MANUFACTURER MANHOLE MINIMUM MIRROR MISCELLANEOUS MASONRY OPENING MODULAR MOISTURE RESISTANT MOUNTED METAL MULLION NORTH NEW NATURAL NOT IN CONTRACT NUMBER NOMINAL NOT TO SCALE OVER OVERALL OBSCURE ON CENTER OUTSIDE DIAMETER OVERFLOW OWNER FURNISHED/ CONTRACTOR INSTALLED OFFICE OPENING OPPOSITE OVERHEAD QUARRY TILE	T&B TC TEL TEM TER T&G TH THRU TJ TN T.O.D. T.O.P. T.O.P. T.O.P. T.O.W. T.P. TPD TRN TRANS TS TUB TV TW TYP UNF U.O.N. UR UTIL VB VCT VERT VEST VI.F. VT VTR VWC WD WDW WH
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DBL DEPT DET DF DG DI DIAG DIM DISP DIV DN DO DIR DS DSP DT DWG DWG DWR E (E) EA EB EE EF EJ EL ELEC ELEV EMER EMT ENCL EP EQ EQUIV ES EXH EXIST EXP	DEPARTMENT DETAIL DRINKING FOUNTAIN DECOMPOSED GRANITE DRAIN INLET DIAMETER DIAGONAL DIMENSION DISPOSAL DIVISION DOWN DOOR OPENING DIRECTLY DOOR DOWN SPOUT DRY STAND PIPE DRAIN TILE DISHWASHER DRAWING DRAWER EAST EXISTING EACH EXPANSION BOLT EACH END EXHAUST FAN EXPANSION JOINT ELEVATION EMERGENCY ELECTRIC METALLIC TUBING ENCLOSURE ELECTRIC PANEL EQUIPMENT EQUIVALENT EACH SIDE EACH WAY EXHAUST EXISTING EACH EQUIVALENT EACH SIDE EACH WAY EXHAUST EXISTING EXPANSION	LH LL LP LT MAS MAT MAX MB MBR MC MECH MED MEMB MFR MIN MISC MO MOD MR MTD MTL N (N) NAT.C. NO NOM N.T.S. O/ OA OBS OC OF OPP OPP OVH D PC P.C.F.	LIVE LOAD LOW POINT LIGHT MASONRY MATERIAL MAXIMUM MACHINE BOLT MODIFIED BITUMEN ROOFING MEDICINE CABINET MECHANICAL MEDIUM MEMBRANE MANUFACTURER MANHOLE MINIMUM MIRROR MISCELLANEOUS MASONRY OPENING MODULAR MOISTURE RESISTANT MOUNTED METAL MULLION NORTH NEW NATURAL NOT IN CONTRACT NUMBER NOMINAL NOT TO SCALE OVER OVERALL OBSCURE ON CENTER OUTSIDE DIAMETER OVERFLOW OWNER FURNISHED/ CONTRACTOR INSTALLED OFFICE OPENING OPPOSITE OVERHEAD QUARRY TILE PAINT PORTLAND CEMENT POUNDS PER CUBIC FOOT	T&B TC TEL TEM TER T&G TH THRU TJ TN T.O.D. T.O.P. T.O.P. T.O.P. T.O.W. T.P. TPD TRN TRANS TS TUB TV TW TYP UNF U.O.N. UR UTIL VB VCT VERT VEST VI.F. VT VTR VWC WD WDW WH
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DBL DEPT DET DF DG DI DIAG DIM DISP DIV DN	DEPARTMENT DETAIL DRINKING FOUNTAIN DECOMPOSED GRANITE DRAIN INLET DIAMETER DIAGONAL DIMENSION DISPOSAL DIVISION DOWN DOOR OPENING DIRECTLY DOOR DOWN SPOUT DRY STAND PIPE DRAIN TILE DISHWASHER DRAWING DRAWER EAST EXISTING EACH EXPANSION BOLT EACH END EXHAUST FAN EXPANSION JOINT ELEVATION GRADE ELECTRICAL ELEVATION EMERGENCY ELECTRIC METALLIC TUBING ENCLOSURE ELECTRIC PANEL EQUIAL EQUIPMENT EQUIVALENT EACH WAY EXHAUST EXISTING EACH WAY EXHAUST EXISTING EACH WAY EXHAUST EXISTING EXPANSION EXTERIOR FACE FIRE ALARM	LH LL LP LT MAS MAT MAX MB MBR MC MECH MED MEMB MFR MIN MISC MO MOD MR MTD MTL N (N) NAT.C. NO NOM N.T.S. O/ OA OBS OC OF OPP OPP OVH D PC P.C.F.	LIVE LOAD LOW POINT LIGHT MASONRY MATERIAL MAXIMUM MACHINE BOLT MODIFIED BITUMEN ROOFING MEDICINE CABINET MECHANICAL MEDIUM MEMBRANE MANUFACTURER MANHOLE MINIMUM MIRROR MISCELLANEOUS MASONRY OPENING MODULAR MOISTURE RESISTANT MOUNTED METAL MULLION NORTH NEW NATURAL NOT IN CONTRACT NUMBER NOMINAL NOT TO SCALE OVER OVERALL OBSCURE ON CENTER OUTSIDE DIAMETER OVERFLOW OWNER FURNISHED/ CONTRACTOR INSTALLED OFFICE OPENING OPPOSITE OVERHEAD QUARRY TILE PAINT PORTLAND CEMENT POUNDS PER CUBIC FOOT	T&B TC TEL TEM TER T&G TH THRU TJ TN T.O.D. T.O.P. T.O.P. T.O.P. T.O.W. T.P. TPD TRN TRANS TS TUB TV TW TYP UNF U.O.N. UR UTIL VB VCT VEST V.I.F. VT VTR VWC WD WDW WH W/O WP W.P.

PROPERTY LINE

PLASTIC LAMINATE

P/L

PLAM

FOUNDATION

GENERAL NOTES:

PLASTER/ PLASTIC

POINT OF CONTACT

PLYWOOD

PROPERTY

DOUGLAS FIR

PARTITION

PAVEMENT

RESILIENT BASE

ROOF DRAIN

REFERENCE

REGULAR

REQUIRED

REINFORCED

ROOF HATCH

ROUGH OPENING

RAIN WATER LEADER

SEE CIVIL DRAWINGS

SEALED CONCRETE

SEE ELECTRICAL DRAWINGS

SEE KITCHEN EQUIPMENT DWG'S

SEE LANDSCAPE DRAWINGS

SEE MECHANICAL DRAWING

SANITARY NAPKIN DISPENSER

SEE STRUCTURAL DRAWINGS

SEE THEATRICAL DRAWINGS

SANITARY NAPKIN RECEPTACLE

ROOM

REDWOOD

SOLID BLOCK SOLID CORE

SCHEDULE

SECTION

SHOWER

SIMILAR

SLIDING

SHEATHING

SHEET METAL

SLAB ON GRADE

SHUT OFF VALVE

STAINLESS STEEL

SPECIFICATION

SPEAKER

SQUARE

STATION

STEEL

STAIN

STORAGE

TREAD

STRUCTURAL

SUSPENDED

SYMMETRICAL

TOP & BOTTOM

TOP OF CURB

TELEPHONE

TEMPERED

TERRAZZO

THROUGH

TOOL JOINT

TOP OF DECK

TOP OF LOUVER

TOP OF PARAPET

TOP OF PAVEMENT

TOILET PAPER DISPENSER

UNLESS OTHERWISE NOTED

VINYL COMPOSITION TILE

TOP OF PLATE

TOP OF ROOF

TOP OF WALL

TRANSOM

TUBE STEEL TUBULAR

TELEVISION

TACKWALL

UNFINISHED

VAPOR BARRIER

VERIFY IN FIELD

WATER CLOSET

WATER HEATER

WATER PROOF **WORK POINT**

WATER RESISTANT

VENT THROUGH ROOF

VINYL WALL COVERING

TYPICAL

URINAL

UTILITY

VERTICAL

VESTIBULE

VINYL TILE

WEST

WITH

WOOD WINDOW

WITHOUT

WAINSCOT

WEIGHT

TRANSPARENT

TOE NAIL

THICK

TONGUE & GROOVE

STANDARD

STORM DRAIN

SEPARATION

REFRIGERATOR

RISER

RADIUS

PAIR

POUNDS PER LINEAL FOOT

POUNDS PER SQUARE FOOT

POUNDS PER SQUARE INCH

PAPER TOWEL RECEPTACLE

RESILIENT ATHLETIC FLOOR

ROUND HEAD MACHINE SCREW

SEE ARCHITECTURAL DRAWINGS

ROUND HEAD WOOD SCREW

PAPER TOWEL DISPENSER

PRESSURE TREATED

POLYVINYL CHLORIDE

- 1. ALL WORK IS SHOWN, DESCRIBED OR SPECIFIED IN THE DRAWINGS INDEXED ON THIS PAGE OR IN THE SPECIFICATIONS ALL WORK NOT INDICATED AS EXISTING (E) IS NEW.
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- ONLY WORK SO NOTED IS NOT IN CONTRACT (N.I.C.) ALL N.I.C. ITEMS ARE NOT PART OF DSA APPROVAL
- 4. GOVERNING CODES: A COPY OF TITLE 24 PARTS 1-5 AND PART 9 SHALL BE KEPT ON THE JOB AT ALL TIMES.
 - CALIFORNIA CODE OF REGULATIONS TITLE 24 BUILDING STANDARDS CODE: PART 1 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR PART 2 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
 - (2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, 2022 CALIFORNIA AMENDMENTS) PART 3 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR (2020 NATIONAL ELECTRICAL CODE, 2022 CALIFORNIA AMENDMENTS)
 - PART 4 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR (2021 IAPMO UNIFORM MECHANICAL CODE, 2022 CALIFORNIA AMENDMENTS) PART 5 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR (2021 IAPMO UNIFORM PLUMBING CODE, 2022 CALIFORNIA AMENDMENTS)
 - PART 6 2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR PART 9 2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR (2021 INTERNATIONAL FIRE CODE, 2022 CALIFORNIA AMENDMENTS
 - PART 10 2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR (2021 INTERNATIONAL EXISTING BUILDING CODE, 2022 CALIFORNIA AMENDMENTS) PART 11 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL-GREEN), PART 11, TITLE 24 CCR PART 12 2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR TITLE 19 CCR. PUBLIC SAFETY CODE. STATE FIRE MARSHAL REGULATIONS
 - 2010 ADA STANDARDS FOR ACCESSIBILITY DESIGN 2016 ASME A17.1-16/CSA B44-16 SAFETY CODE FOR ELEVATORS AND ESCALATORS
- NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME 17.1 BY ADOPTION 5. STA

	NUDEO.	
ANDARD AND G	GUIDES:	
NFPA 13	INSTALLATION OF FIRE SPRINKLER SYSTEMS (CA AMENDED)	2022 EDITION
NFPA 14	INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED)	2019 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2021 EDITION
NFPA 17A	WET CHEMICAL FIRE EXTINGUISHING SYSTEMS	2021 EDITION
NFPA 20	INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION	2019 EDITI
NFPA 24	STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE	
	MAINS AND THEIR APPURTENANCES (CA AMENDED)	2019 EDITION

- CALIFORNIA EDITION TESTING, MAINTENANCE OF WATER-BASED 2013 EDITION FIRE PROTECTION SYSTEMS NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED) 2022 EDITION NFPA 80 STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES 2019 EDITION NFPA 110 EMERGENCY AND STANDBY POWER SYSTEMS 2019 EDITION NFPA 170 STANDARD FOR FIRE SAFETY AND EMERGENCY SYMBOLS 2018 EDITION
- NFPA 2001 STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED) 2018 EDITION UL 38 1999 EDITION UL 268 2018 EDITION UL 300 STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT
- 2005 (R2010) UL 305 2012 EDITION AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING UL 464 SYSTEMS, INCLUDING ACCESSORIES 2003 EDITION UL 521 STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE 1999 EDITION SIGNALING SYSTEMS 2014 EDITION UL 1971STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED 2008 EDITION UL 2034STANDARD FOR SINGLE AND MULTIPLE CARBON MONOXIDE ALARMS 2017 EDITION

STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING,

AND GRANDSTANDS

CONSTRUCTION CHANGE DOCUMENT.

ALSO, REFER TO CBC CHAPTER 35 AND CFC CHAPTER 80.

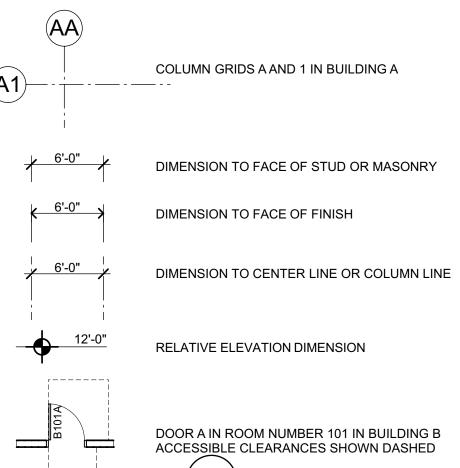
- 6. ALL WORK SHALL CONFORM TO 2022 TITLE 24, CALIFORNIA CODE OF REGULATIONS (C.C.R.) IN ACCORDANCE WITH TITLE 24 PART 1 CHAPTER 4: THE ADMINISTRATIVE REGULATIONS FOR THE DIVISION OF THE STATE ARCHITECT STRUCTURAL SAFETY (DSA/SS)
- •4-331 DSA SHALL BE NOTIFIED AT THE START OF CONSTRUCTION. •4-332 WHEN CONSTRUCTION IS SUSPENDED FOR MORE THAN ONE MONTH, THE PROJECT INSPECTOR SHALL INFORM DSA. •4-333(a) OBSERVATION OF THE WORK SHALL BE BY ARCHITECT OR REGISTERED ENGINEER. •4-333(b) A DSA CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24,

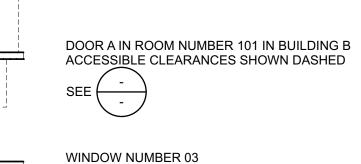
2017 EDITION

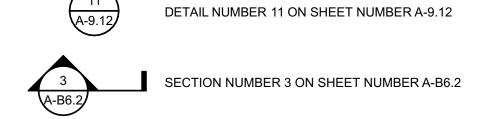
- •4-334 SUPERVISION OF CONSTRUCTION BY DSA SHALL BE IN ACCORDANCE WITH THIS SECTION. •4-335 A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT IN ACCORDANCE WITH THIS SECTION. COSTS OF RE-TEST MAY BE BACKCHARGED TO THE CONTRACTOR. ALL TESTS AND TESTING LAB SHALL CONFORM TO THE REQUIREMENTS OF SECTION 4-33:
- AND APPROVED T & I SHEET (DSA-103) •4-336 VERIFIED REPORTS SHALL BE SUBMITTED BY CONTRACTORS (DSA 006-C), INSPECTORS (DSA 006-PI), ARCHITECTS AND ENGINEERS (DSA 006-AE) IN ACCORDANCE WITH SECTIONS 4-336 AND 4-343. •4-337 SEMI-MONTHLY REPORTS SHALL BE SUBMITTED BY INSPECTORS (DSA - 155). IN ACCORDANCE WITH SECTIONS 4-337. •4-338 WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE APPROVED PLANS, ADDENDA AND CONSTRUCTION DOCUMENTS. CHANGES TO THE APPROVED PLANS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT. AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24.
- CCR. ADDENDA AND CHANGE DOCUMENTS SHALL BE STAMPED AND SIGNED BY THE ARCHITECT OR REGISTERED ENGINEER IN • 4-341(a) THE ARCHITECT AND THE REGISTERED ENGINEER SHALL PERFORM THEIR DUTIES IN ACCORDANCE WITH SECTIONS 4 333(a) AND 4-341.
- .4-343 THE CONTRACTOR SHALL PERFORM HIS DUTIES IN ACCORDANCE WITH THIS SECTION. 7. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF ALTERATION, REHABILITATION OR RECONSTRUCTION
- IS TO BE IN ACCORDANCE WITH TITLE 24, C.C.R. SHOULD ANY EXISTING CONDITIONS BE DISCOVERED WHICH ARE NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH SAID TITLE 24 C.C.R. A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK. (TITLE 24 PART 1, SECTION 4-338(c))
- 8. COMPLIANCE WITH CFC CHAPTER 33, FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION AND CBC CHAPTER 33, SAFETY DURING CONSTRUCTION SHALL BE ENFORCED.
- 9. EMERGENCY VEHICLE ACCESS ROADS AND ON-SITE FIRE HYDRANTS SHALL BE IN SERVICE AND OPERABLE PRIOR TO LOADING TH SITE WITH COMBUSTIBLE MATERIALS.
- 10. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS, AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH APPLICABLE LOCAL ORDINANCES.
- 11. SUBSTITUTIONS OF PRODUCTS OR CONSTRUCTION PROCESSES THAT AFFECT THE STRUCTURAL SAFETY, FIRE AND LIFE-SAFETY, OR ACCESSIBILITY OF THIS PROJECT SHALL BE SUBMITTED TO DSA FOR REVIEW AND APPROVALAS AN ADDENDUM OR
- 12. THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.
- LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT). • MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS
- SUBMITTED ON OR AFTER OCTOBER 1, 2021. • ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER / ARCHITECT OF RECORD, OR OWNER'S AGENT.
- A LISTING OF CERTIFIED ATT CAN BE FOUND AT HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE • THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED. AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE
- REQUIRED ACCEPTANCE CRITERIA. • PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

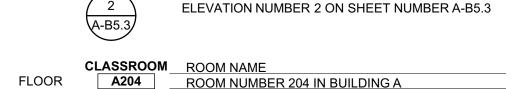
LEGEND:

ALL NOTES AND SYMBOLS ARE INTENDED TO APPLY AT ALL OTHER LOCATIONS OF SIMILAR GRAPHIC REPRESENTATION. SUCH INDICATIONS MAY BE LIMITED TO PROMOTE CLARITY. NO LIMITATION OF APPLICATION I INTENDED EXCEPT AS SPECFICALLY NOTED.



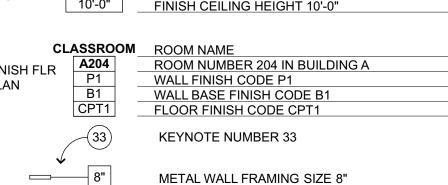






INTERIOR ELEVATION SHOWN ON SHEET A-A7.6

CLASSROOM **ROOM NAME ROOM NUMBER 204 IN BUILDING A** CEILING FINISH CODE CL-6 CLG PLAN





ARCHITECTURAL WOODWORK STANDARDS (AWS) CABINET DESIGN SERIES IDENTIFIER

ROOM / BUILDING ACCESSIBLE SIGNAGE TYPE E1. SEE ARCHITECTURAL GRAPHICS PLAN AND ACCESSIBLE SIGNAGE DETAIL RELATIVE ORIGIN OR WORK POINT

EQUIPMENT TAG $\langle A \rangle$ REFER TO EQUIPMENT SCHEDULE

Statement of General Conformance BY ARCHITECT UTILIZING PLANS (INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS) PREPARED BY OTHER LICENSED DESIGN

PROFESSIONALS AND/OR CONSULTANTS DSA Application No. <u>01-120920</u> File No <u>49-17</u>

These drawings (marked Civil, Structural, Mechanical, Electrical and Fire Protection) and/or specifications and/or calculations for the items listed, have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. It has been examined by me for:

1) design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications perpared

2) coordination with my plans and specifications and is acceptable for incorporation into the construction of this project.

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

7/18/2023 Architect or Engineer designated to be in general responsible charge

Kevin Chapin C31640 May 31, 2025 Print Name Expiration Date License Number

PROJECT DESCRIPTION:

THIS PROJECT INCLUDES THE FOLLOWING SCOPE OF WORK: MODERNIZATION OF MECHANICAL SYSYEM TO CLASSROOM BUILDING A: INCLUDES. REPLACE HVAC SYSTEM. COVER OPEN MECHANICAL WELL TO MATCH EXISTING BUILDING ROOF LINE AND NEW FIRE ALARM SYSTEM.

DSA DEFERRED ITEMS:

NONE

SHEET INDEX (36 TOTAL SHEETS)

COVER SHEET ABBREVIATIONS, NOTES AND INDEX

ARCHITECTURAL (5 Sheets)

CAMPUS SITE PLAN FLOOR PLAN AND MECH ENCLOSURE A-2.1 REFLECTED CEILING PLANS **ROOF PLANS**

EXTERIOR ELEVATION AND DETAILS

GENERAL NOTES TYPICAL DETAILS CEILING FRAMING PLAN S-2.1 S-2.2 ROOF FRAMING PLAN

STRUCTURAL (4 Sheets)

MECHANICAL (14 Sheets)

MECHANICAL SCHEDULES & LEGENDS MECHANICAL SCHEDULES M-A1.2 MECHANICAL FLOOR PLAN MECHANICAL PIPING PLAN M-A2.2 M-A2.3 MECHANICAL CONDENSATE PIPING PLAN M-A2.4 MECHANICAL ROOF PLAN MECHANICAL DETAILS M-A3.1 M-A3.2 MECHANICAL DETAILS M-A3.3 MECHANICAL AND PLUMBING DETAILS M-A4 1 PIPING AND WIRING DIAGRAMS M-A5.1 MECHANICAL CONTROLS M-A5.2 MECHANICAL CONTROLS MECHANICAL DEMOLITION PLAN MD-A2.1 MECHANICAL DEMOLITION ROOF PLAN

ELECTRICAL (8 Sheets)

SYMBOLS LIST, GENERAL NOTES & LIST OF DRAWINGS FLOOR PLAN -LIGHTING E-2.1 E-3.1 FLOOR PLAN -ELECTRICAL E-6.1 **DETAILS AND SCHEDULES** FIRE COMPONENTS LIST. NOTES AND DETAILS FE-0.1 SITE PLAN FIRE ALARM FE-1.1 FLOOR PLAN FIRE ALARM FE-5.1 RISER DIAGRAM AND CALCULATIONS -FIRE ALARM

T-24 (3 Sheets)

TITLE 24 TITLE 24 T-1.3 TITLE 24

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 01-120920 INC: REVIEWED FOR SS ☑ FLS ☑ ACS □ DATE: 8/22/2023



636 Fifth Street, Santa Rosa, CA 95404 East Bay: 55 Harrison Street, Suite 525, Oakland, CA 94607 (707) 576-0829 KEVIN CHAPIN ★ LICENSE # C31640 EXP MAY 31, 2025

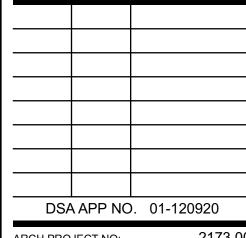
SIGNED: JULY 19, 2023

ALTERATIONS TO BUILDING A AT UNIVERSIT ES @ LA FIESTA

REPLACEMENT

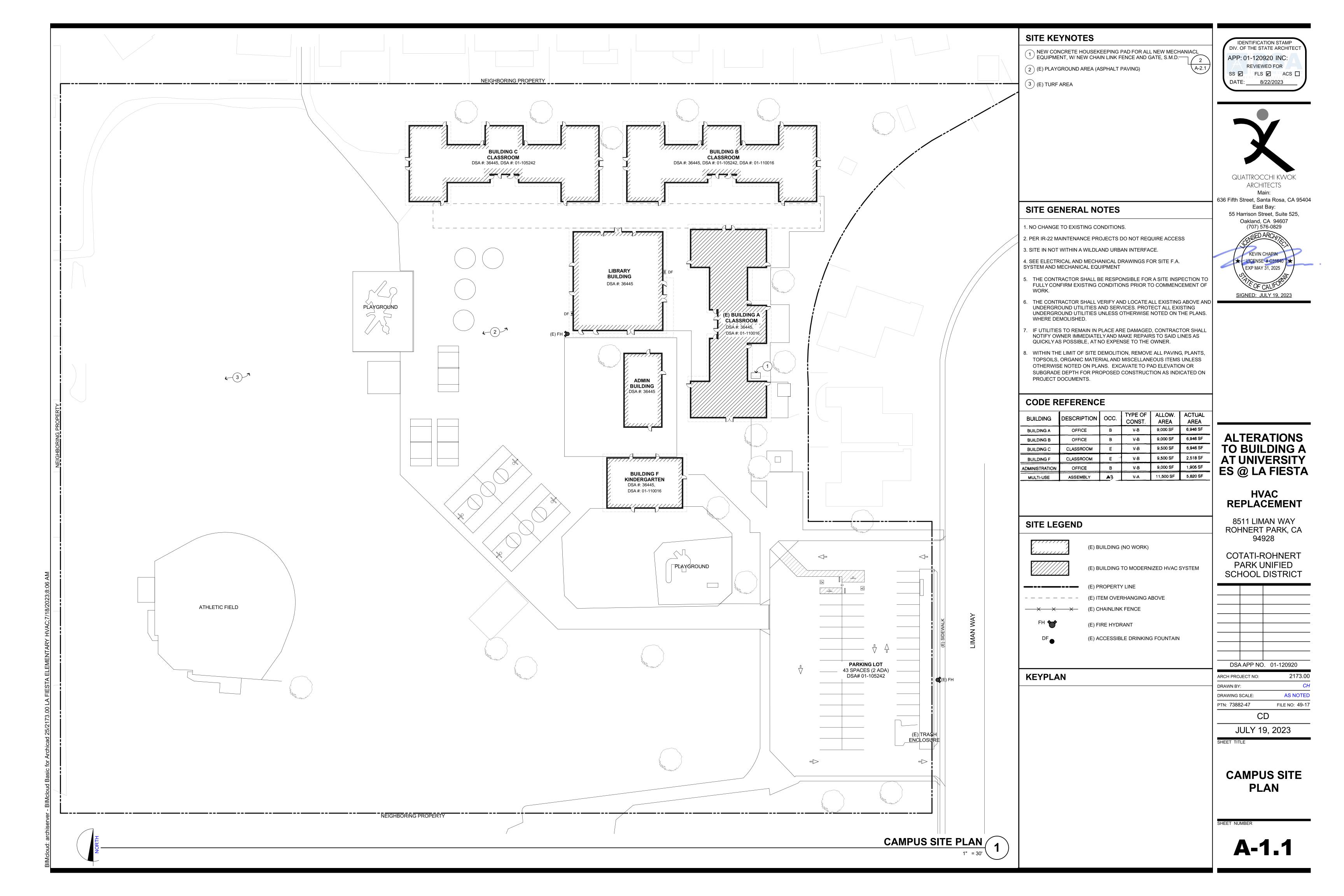
8511 LIMAN WAY ROHNERT PARK, CA

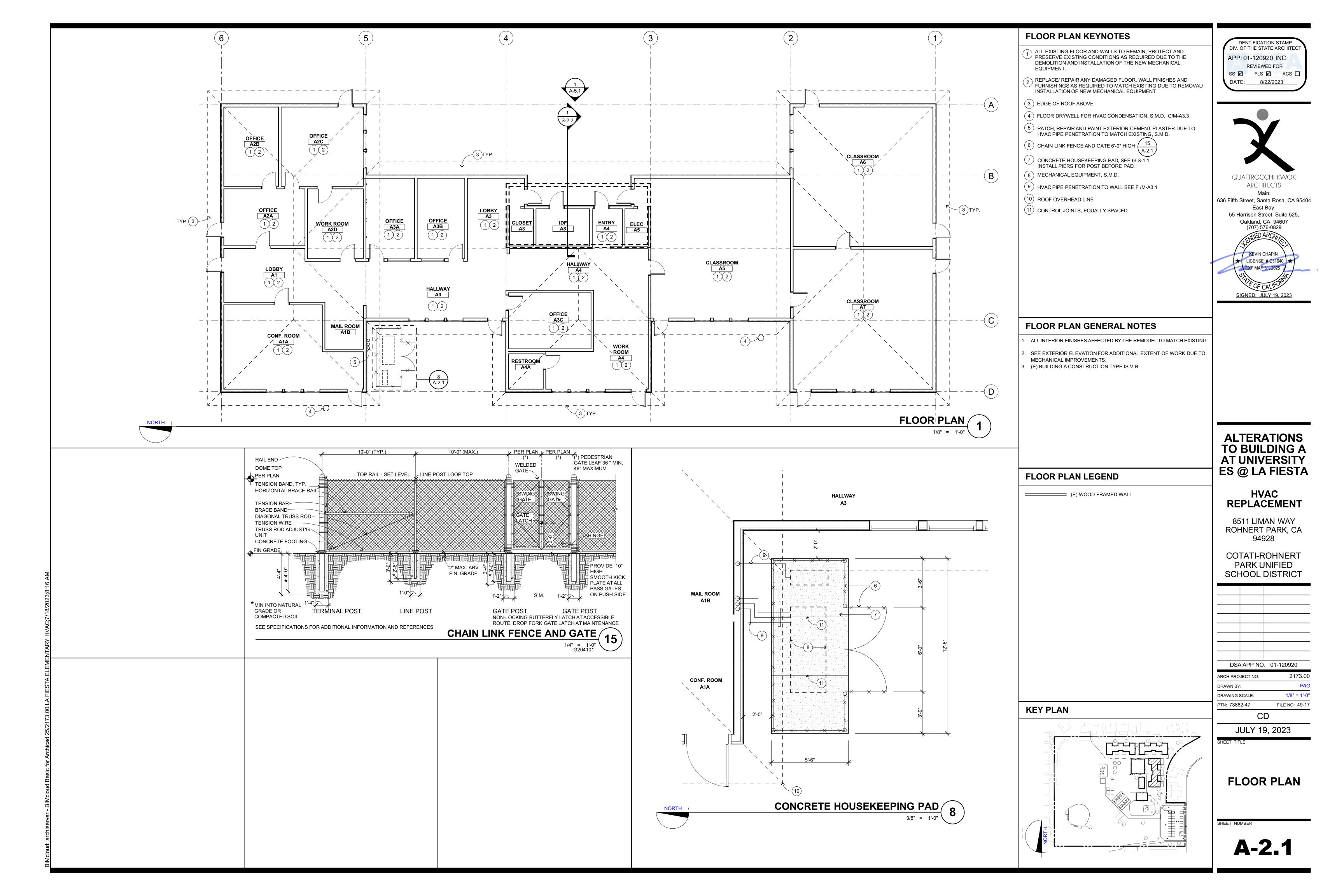
COTATI-ROHNERT PARK UNIFIED SCHOOL DISTRIC



ARCH PROJECT NO:	2173.00		
DRAWN BY:			
DRAWING SCALE:	N.T.S.		
PTN: 73882-47	FILE NO: 49-17		
CD			
JULY 19, 2023			

ABBREVIATIONS NOTES AND





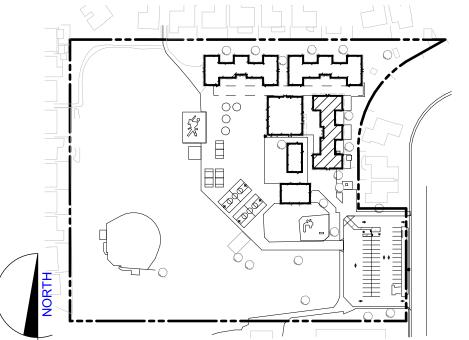


AT ATTIC SPACE, ALL MECHANICAL DUCTWORK, PIPING, CONTROLS, ELECTRICAL CONNECTIONS, INSULATION (BATT & LOOSE), ETC. TO

- AREA OF CEILING DEMOLITION TO ALLOCATE NEW MECHANICAL (D4) EQUIPMENT, PROTECT AND PRESERVE (E) CEILING. ADDITIONAL DEMOLITION MAY BE REQUIRED TO INSTALL FULL LENGHT CEILING
- BLOCKING, BACKING, FRAMING, SHEATHING, UTILITIES OR OTHER CONCEALED WORK, WHETHER SPECIFICALLY SHOWN OR INFERRED FOR SUPPORT OR RENOVATION. REFER TO ELECTRICAL, MECHANICAL, AND STRUCTURAL DRAWINGS FOR CONCEALED WORK NOT SHOWN ON
- AFFECTED BY THE DEMOLITION OR NEW WORK TO MATCH EXISTING.

APPROXIMATE DEMO AREAS OF CEILING CUT WORK,

- (2) ACCESS PANEL, S.M.D. FOR SIZES AND LOCATION, S.S.D. $\frac{1}{(A-5.1)}$
- NOTES & SYMBOLS ARE TO APPLY TO ALL AREAS OF SIMILAR GRAPHIC REPRESENTATION. SUCH INDICATIONS MAY BE LIMITED TO PROMOTE CLARITY OR AVOID REDUNDACY. NO LIMITATION OF APPLICATION
- S.E.D. FOR HORNS, SPEAKERS, PULL STATIONS, LIGHT FIXTURES AND
- S.M.D. FOR PIPING, REGISTERS & VENTS NOT OTHERWISE SHOWN.
- MECHANICAL DUCT LOCATION DIMENSIONS ARE NOMINAL. VERIFY IN



RCP

1/8" = 1'-0'

DSA APP NO. 01-120920 2173.00 ARCH PROJECT NO: PAG DRAWN BY: 1/8" = 1'-0" DRAWING SCALE:

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC

REVIEWED FOR

SS ☑ FLS ☑ ACS □ 8/22/2023

QUATTROCCHI KWOK

ARCHITECTS

Main:

636 Fifth Street, Santa Rosa, CA 95404

East Bay:

55 Harrison Street, Suite 525,

Oakland, CA 94607 (707) 576-0829

KEVIN CHAPIN LICENSE # C31640

EXP MAY 31, 2025

SIGNED: JULY 19, 2023

ALTERATIONS

TO BUILDING A

AT UNIVERSITY

ES @ LA FIESTA

HVAC

REPLACEMENT

8511 LIMAN WAY

ROHNERT PARK, CA

94928

COTATI-ROHNERT

PARK UNIFIED

SCHOOL DISTRICT

APP: 01-120920 INC:

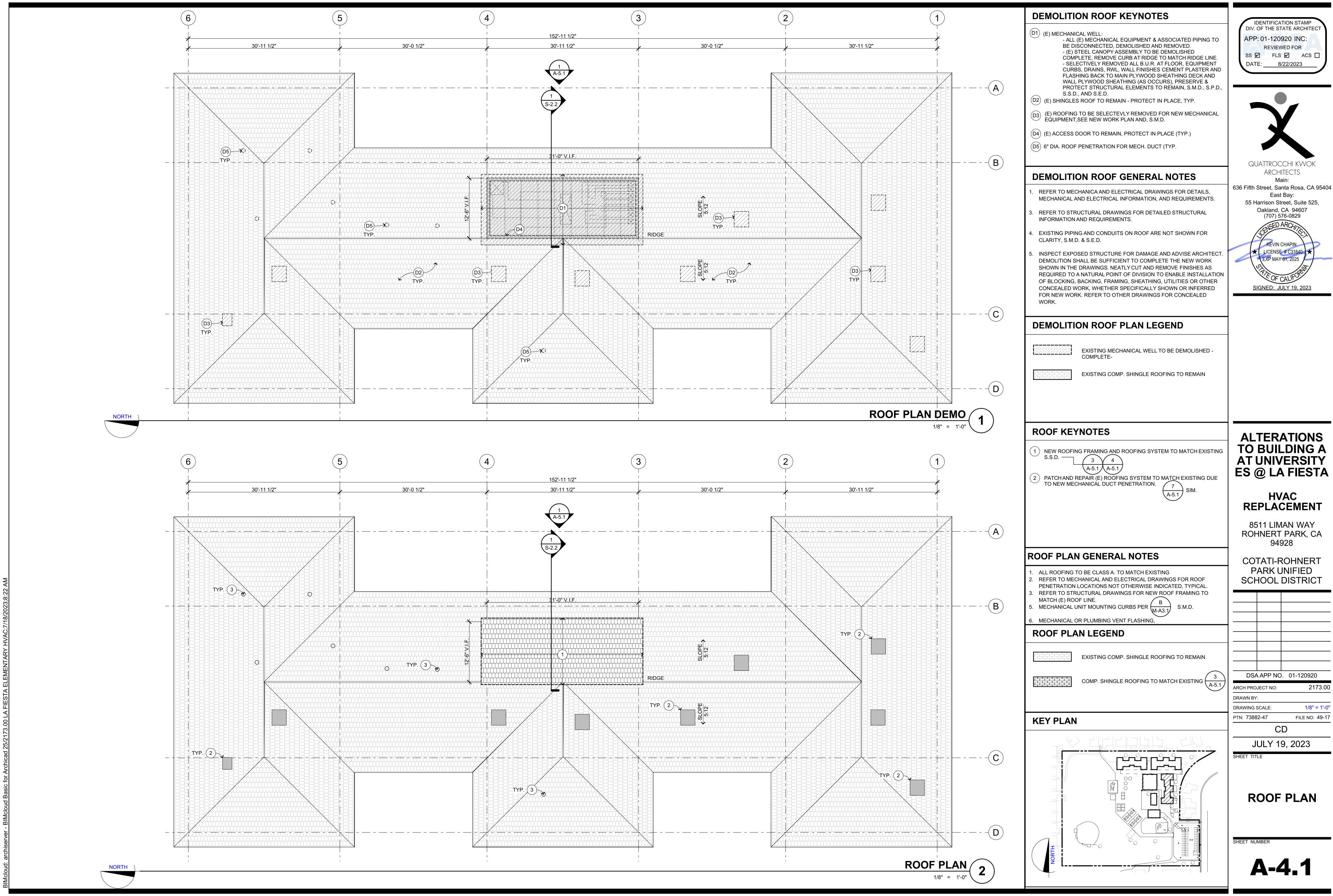
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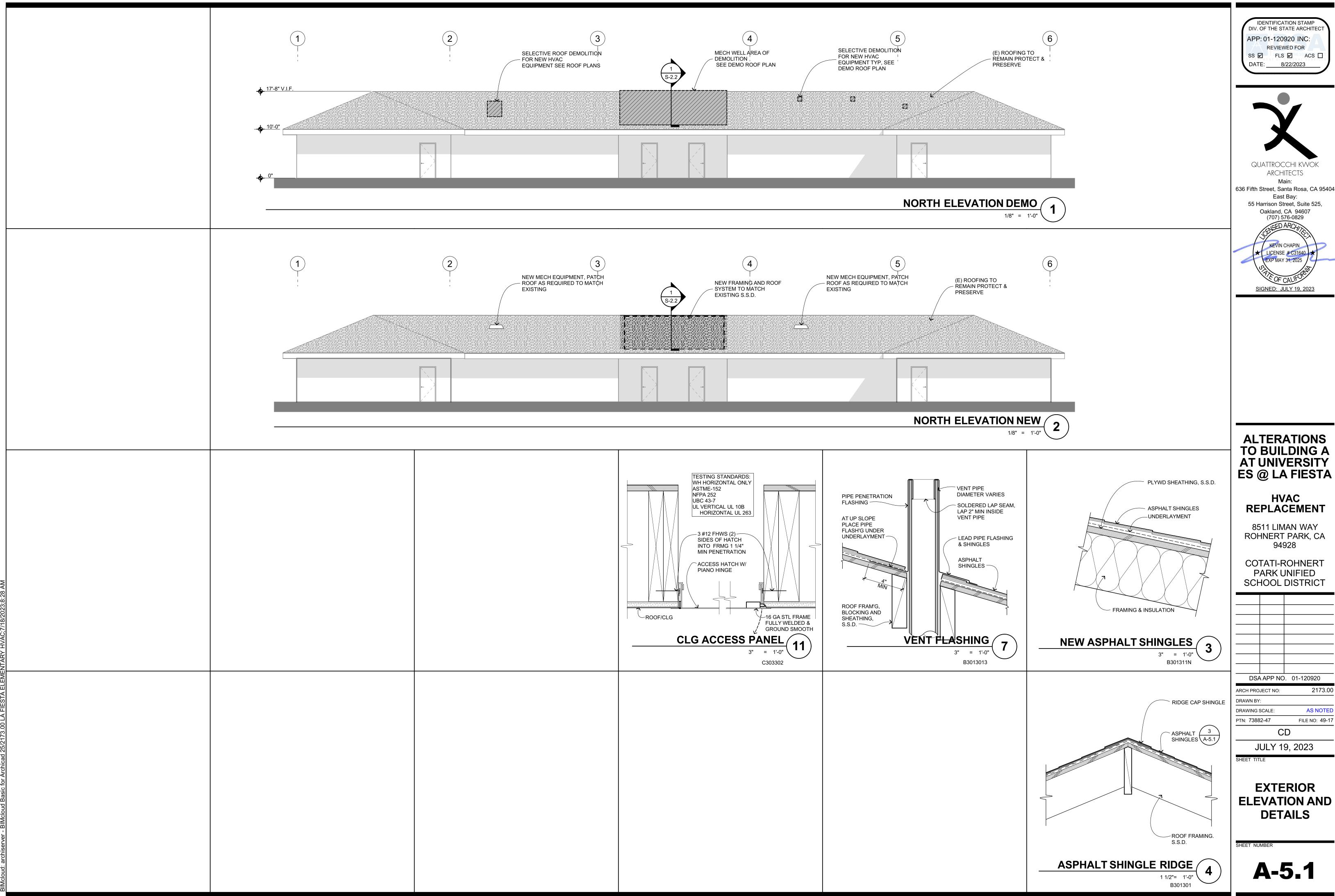
FILE NO: 49-17

JULY 19, 2023

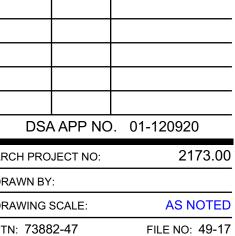
REFLECTED **CEILING PLAN**

PTN: 73882-47









\\zfa.com\SR\Projects\2023\23209 University ES at La

C WOOD FRAMING NOTES

- 1. ALL JOISTS SHALL BE SEAT CUT FOR FULL UNIFORM BEARING AT SUPPORTS.
- 2. SEE <u>5/S-1.1</u> FOR SHEATHING NAILING REQUIREMENTS. ALL NAILING NOT NOTED OR DETAILED OTHERWISE SHALL BE PER <u>4/S-1.1</u>. NAIL LENGTH TO BE SUFFICIENT TO MEET CBC PENETRATION REQUIREMENTS. NAILS INTO PRESSURE TREATED MATERIAL SHALL BE HOT DIP GALVANIZED. NAILS AT BORATE TREATED LUMBER MAY BE CLEAR ZINC COATED. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AT EXTERIOR EXPOSURES.
- 3. ALL MECHANICAL SUPPLY AND RETURN OPENINGS TO BE BETWEEN FRAMING UNO.
- 4. JOISTS AND RAFTERS ARE PER PLAN WITH "HU" HANGERS (SKEWED AND/OR SLOPED AS REQUIRED). HANGER SIZE TO BE CORRECT FULL SIZE FOR JOIST SIZE (I.E. HU210 FOR 2x10).
- 5. ROUND HOLES IN STEEL PLATES TO BE 1/16" OVERSIZE. SLOTTED HOLES IN STEEL PLATES SHALL BE 1/16" WIDER THAN THE BOLT DIAMETER AND HAVE A LENGTH OF 2 TIMES THE BOLT DIAMETER. THE DIRECTION OF THE SLOTTED LENGTH IS INDICATED ON THE DETAILS (VSH OR HSH). INSTALL BOLT AT THE CENTER LINE OF THE HOLE. BOLT HOLES IN WOOD SHALL BE ROUND AND 1/32" OVERSIZE. CUT OFF BOLT THREADED END FLUSH WITH NUT WHEN REQUIRED BY FINISHES AND 1" MAXIMUM FROM NUT OTHERWISE. PROVIDE STANDARD CUT WASHERS UNDER HEAD AND NUT WHERE BOLT BEARS ON WOOD. USE PLATE OR MALLEABLE IRON WASHERS AT EXPOSED CONDITIONS OR AS INDICATED.
- 6. ALL BOLTED OR NAILED STRAP CONNECTIONS SHALL HAVE AN EQUAL NUMBER OF BOLTS OR NAILS EACH SIDE OF THE SPLICE JOINT. THE FIRST BOLT OR NAIL FROM EACH SIDE OF THE SPLICED OR STRAPPED MEMBER SHALL BE EQUIDISTANT FROM THE SPLICE. STRAPS USING 16d NAILS ON 2x MATERIAL TO BE INSTALLED ON THE 1½" EDGE OF THE MEMBER.
- 7. THE CONTRACTOR SHALL VERIFY THAT THE MOISTURE CONTENT OF ALL FRAMING LUMBER AND SHEATHING MEET THE REQUIREMENTS OF THE SPECIFICATIONS AT THE TIME OF INSTALLATION AND AT CLOSE-IN. THE CONTRACTOR SHALL PROVIDE ALLOWANCE FOR DIFFERENTIAL SHRINKAGE BETWEEN FLOORS, ETC.
- 8. ALL SHEATHING SHALL HAVE 1/8" GAP AT ALL EDGES AND JOINTS. TYPICAL SHEATHING:
- A. SLOPING ROOF SHEATHING (SLOPE GREATER THAN 2:12): 15/32 " APA RATED SHEATHING (32/16) EXP 1 WITH 10d @ 6"oc EDGES (PEN) AND 12"oc FIELD UNO ON PLANS. LAY PERPENDICULAR TO FRAMING MEMBERS. BLOCK EDGES WITH 2x4 LAID FLAT. NO PANELS LESS THAN 24" WIDE SHALL BE USED. STAGGER SHEETS.

(D) MATERIAL DATA

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

CONCRETE 28-DAY MINIMUM DESIGN STRENGTH: F'_c = 3,000 PSI MECH PADS

REINFORCING STEEL:

ASTM A615 GRADE 60 OR A706 GRADE 60 (F_y = 60,000 PSI)

FASTENERS:

MACHINE BOLTS SHALL BE ASTM A307 GRADE A

WOOD BASE DESIGN STRESSES (UNO):

FRAMING FAR SIDE

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

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

AB	ANCHOR BOLT	FTG	FOOTING	PNL	PANEL
ABV	ABOVE	GA	GAGE or GAUGE	PSF	POUNDS PER SQUARE FOOT
AC	AIR CONDITIONING	GALV	GALVANIZED	PSI	POUNDS PER SQUARE INCH
ADJ ADDL	ADJACENT ADDITIONAL	GB	GRADE BEAM	PSL	PARALLEL STRAND LUMBER
ALT	ALTERNATE	GL GLB	GRIDLINE GLUE LAMINATED BEAM	PTDF	PRESSURE TREATED DOUGLAS FIR
ALUM	ALUMINUM	GR	GRADE	PT	POINT
RCH	ARCHITECT	HD	HOLD DOWN	R R	RADIUS
YC	ALASKAN YELLOW CEDAR	HDG	HOT-DIP GALVANIZED	RBS	REDUCED BEAM SECTION
0	AT	HDR	HEADER	RFTR	RAFTER
SF N DO	BRACED FRAME	HGR	HANGER	REF	REFERENCE
LDG LK/BLKG	BUILDING BLOCK/BLOCKING	HK HORIZ	HOOK HORIZONTAL	REINF REQD	REINFORCING REQUIRED
LW	BELOW	HSB	HIGH STRENGTH BOLT	RET	RETAINING
M	BEAM	HSG	HIGH STRENGTH GROUT	REV	REVISION
N	BOUNDARY NAIL	HSH	HORIZONTAL SLOTTED	RF	ROOF
OT	BOTTOM		HOLE	RWD	REDWOOD
RG	BEARING	HSS	HOLLOW STRUCTURAL	S	AMERICAN STANDARD BEAM
TWN U	BETWEEN BUILT-UP	нт	SECTION	SAD	SEE ARCHITECTURAL
YND	BEYOND	ID	HEIGHT INSIDE DIAMETER	SB	DRAWINGS SOLID BLOCK
	AMERICAN STANDARD	ij	I SHAPED WOOD BUILT	SC	SLIP CRITICAL
	CHANNEL	.0	UP TRUSS	SCD	SEE CIVIL DRAWINGS
Α	CALIFORNIA	INT	INTERIOR	SCHED	SCHEDULE
ANT	CANTILEVER	JST	JOIST	SED	SEE ELECTRICAL DRAWINGS
В	CARRIAGE BOLT	JT	JOINT	SEOR	STRUCTURAL ENGINEER OF
FS IP	COLD FORMED STEEL CAST IN PLACE	KP	KING POST STEEL ANGLE	OFDO	RECORD
GL	CERTIFIED GLUED LUMBER	L Lb or #	POUND(s)	SFRS	SEISMIC FORCE RESISTING SYSTEM
J	CONTROL JOINT	LGMF	LIGHT GAGE METAL	SHTG	SHEATHING
	CENTERLINE		FRAMING	SIM	SIMILAR
JP	COMPLETE JOINT	LGMFC	LIGHT GAGE METAL	SKYLT	SKYLIGHT
	PENETRATION		FRAMING CONTRACTOR	SLD	SEE LANDSCAPE DRAWINGS
LG	CEILING	LL	LIVE LOAD	SMS	SHEET METAL SCREW
LR OL	CLEAR COLUMN	LLH LLV	LONG LEG HORIZONTAL LONG LEG VERTICAL	SMD	SEE MECHANICAL DRAWING
ONC	CONCRETE	LOC	LOCATION	SOG SPCG	SLAB ON GROUND
ONN	CONNECTION	LS	LAG SCREW	SPD	SPACING SEE PLUMBING DRAWINGS
ONT	CONTINUOUS	LSL	LAMINATED STRAND LUMBER	SPEC	SPECIFICATION
OORD	COORDINATE/	LVL	LAMINATED VENEER LUMBER	SQ	SQUARE
	COORDINATION	LWC	LIGHTWEIGHT CONCRETE	SS	SELECT STRUCTURAL
MU	CONCRETE MASONRY UNIT	MAX	MAXIMUM		or STAINLESS STEEL
SK W	COUNTERSINK	MB	MACHINE BOLT	STGR	STAGGERED
·vv ·BA	CUT WASHER DEFORMED BAR ANCHOR	MBM	METAL BUILDING MANUFACTURER	STD STIFF	STANDARD STIFFENER
BL	DOUBLE	мс	MISCELLANEOUS CHANNEL	STL	STEEL
CW	DEMAND CRITICAL WELD	MECH	MECHANICAL	STRUCT	STRUCTURAL
F	DOUGLAS FIR	MEZZ	MEZZANINE	SW	SHEAR WALL
IA or Ø	DIAMETER	MF	MOMENT FRAME	SYM	SYMMETRICAL
IAG	DIAGONAL	MFR	MANUFACTURER	T&B	TOP AND BOTTOM
IM IST	DIMENSION DISTANCE	MIN	MINIMUM	T&G	TONGUE AND GROOVE
J	DOWEL JOINT	MISC MIW	MISCELLANEOUS MALLEABLE IRON WASHER	THK THRD	THICK
Ĺ	DEAD LOAD	MTL	METAL METAL	THRU	THREADED THROUGH
N	DOWN	MU	MECH UNIT	TL	TOTAL LOAD
0	DITTO	(N)	NEW	TN	TOE NAIL
NG	DRAWING	N/A	NOT APPLICABLE	TOC	TOP OF CONCRETE
۸L	DOWEL	NO or #	NUMBER	TOF	TOP OF FRAMING
A ≣	EACH EACH END	NS NSG	NEAR SIDE	TOM	TOP OF MASONRY
	EACH FACE	NTS	NON-SHRINK GROUT NOT TO SCALE	TOP TOS	TOP OF PLYWOOD TOP OF STEEL
_EC	ELECTRICAL	NWC	NORMAL-WEIGHT CONCRETE	TOT	TOTAL
ĒV	ELEVATOR/ELEVATION	0/	OVER	TU	TILT UP
ИBED	EMBEDMENT	ос	ON CENTER	TYP	TYPICAL
2	EQUAL	OD	OUTSIDE DIAMETER	UNO	UNLESS NOTED OTHERWISE
QUIP	EQUIPMENT	OH	OPPOSITE HAND	VERT	VERTICAL
S V	EACH SIDE EACH WAY	OPNG	OPENING	VIF	VERIFY IN FIELD
)	EXISTING	OPP OVS	OPPOSITE OVERSIZED	VSH W	VERTICAL SLOTTED HOLE WIDE FLANGE STEEL BEAM
, KP	EXPANSION	OW	OTHERWISE	W/	WITH
XT	EXTERIOR	OWT	OPEN WEB TRUSS	W/O	WITHOUT
DN	FOUNDATION	PE .	PLATE or PROPERTY LINE	WD	WOOD
N	FINISH	PA	POST ABOVE	WHS	WELDED HEADED STUD
<u>G</u>	FINISH GRADE	PAF	POWER ACTUATED	WLD	WELDED
LR	FLOOR		FASTENERS	WP	WORK POINT/WATERPROOF
N OC	FACE OF CONCRETE	PEN	PANEL EDGE NAIL	WS	WOOD SCREW
OC OM	FACE OF CONCRETE FACE OF MASONRY	PERP	PERPENDICULAR	WTC	WEIGHT
OIVI OS	FACE OF MASONRY	PES	PANEL EDGE SCREWS	WTS	WELDED THREADED STUD
RMG	FRAMING	PJP	PARTIAL JOINT PENETRATION	WWR	WELDED WIRE

POUNDS PER LINEAR FOOT

REINFORCEMENT

DESIGN CRITERIA

DESIGN CRITERIA: ROOF LIVE LOAD: RISK CATEGORY: WIND DATA:

SCOPE:

ITERIA: 2022 CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2 (CBC)
LOAD: 20 PSF (REDUCIBLE)
GORY: II

II ULTIMATE WIND SPEED (3 SEC GUST) IN MPH: 91 WIND EXPOSURE: C

INTERNAL WIND PRESSURE COEFFICIENT (GCPI) = ±0.18
COMPONENTS AND CLADDING DESIGN PRESSURES FOR SYSTEMS
DESIGNED BY OTHERS SHALL COMPLY WITH THE "ASCE 7-16"
DESIGN STANDARD

EARTHQUAKE DATA: SEISMIC IMPORTANCE FACTOR, I_e: 1.00

MAPPED SPECTRAL RESPONSE ACCELERATIONS: $S_S = 1.70$; $S_1 = 0.65$ SITE CLASS: D BY DEFAULT SPECTRAL RESPONSE COEFFICIENTS: $S_{DS} = 1.36$; $S_{D1} = 0.73$

SEISMIC DESIGN CATEGORY: D SEISMIC FORCE RESISTING SYSTEM: WOOD FRAMED SHEAR WALLS

NEW WOOD FRAMING INFILL AT THE ROOF AFTER REMOVAL OF EXISTING MECHANICAL WELL.
ADDITION OF GRAVITY FRAMING FOR REPLACEMENT OF MECHANICAL SYSTEM.

B GENERAL NOTES

- REFER TO SHEET <u>S-1.1</u> FOR STANDARD DETAILS OF CONSTRUCTION. REFER TO THE PROJECT SPECIFICATIONS FOR MATERIALS AND METHODS.
- 2. BUILDING DIMENSIONS SHOWN ARE FOR GENERAL REFERENCE ONLY. SEE ARCHITECTURAL DRAWINGS (SAD) FOR ALL ACTUAL BUILDING DIMENSIONS. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER SO CLARIFICATION CAN BE MADE PRIOR TO COMMENCING WORK
- 3. STRUCTURAL DRAWINGS SHALL NOT BE SCALED. ALL DIMENSIONS AND FIT SHALL BE DETERMINED AND VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING
- 4. DETAILS NOT FULLY OR SPECIFICALLY SHOWN SHALL BE OF SAME NATURE AS OTHER SIMILAR CONDITIONS.
- 5. COORDINATION OF MECHANICAL, ELECTRICAL, PLUMBING, AND SITE UTILITY SYSTEMS WITH THE STRUCTURAL SYSTEM IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. USE DETAILS ON SHEET <u>S-1.1</u>. AT CONDITIONS WHERE THESE DETAILS DO NOT APPEAR TO APPLY, NOTIFY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION. AT CONDITIONS WHERE FIELD MODIFICATIONS OF MECHANICAL, ELECTRICAL, PLUMBING, OR SITE UTILITIES AFFECT STRUCTURAL SYSTEMS, NOTIFY STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
- 6. VERIFY WEIGHTS AND LOCATIONS OF MECHANICAL UNITS WITH MECHANICAL ENGINEER PRIOR TO PLACEMENT. UNITS VARYING OVER 10% IN WEIGHT SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION (MECHANICAL WEIGHTS SHOWN ARE MAXIMUM). CONTRACTOR TO VERIFY MECHANICAL UNIT SIZES AND WEIGHTS AS INSTALLED PRIOR TO INSTALLATION OF SPECIAL FRAMING TO ENSURE CORRECT PLACEMENT UNDER CURBS, ETC.
- 7. SHORING AND BRACING DESIGN, MATERIALS AND INSTALLATION SHALL BE PROVIDED BY THE GENERAL CONTRACTOR, AND SHALL BE ADEQUATE FOR ALL LOADS. LEAVE IN PLACE AS LONG AS MAY BE REQUIRED FOR SAFETY AND UNTIL FINAL STRUCTURAL CONSTRUCTION IS COMPLETED. THE CONTRACTOR SHALL ENGAGE A LICENSED CIVIL OR STRUCTURAL ENGINEER TO PROVIDE SHORING
- 8. IN PREPARING THE PROJECT PLANS, THE SOURCE OF INFORMATION WAS BASED ON THE EXISTING BUILDING PLANS PREPARED BY, FELCIANO, JEFFRIES, & ASSOCIATES, WITH APPLICATION NUMBER 36445, DATED NOVEMBER 12, 1973. ADDITIONAL INFORMATION WAS BASED ON THE MODERNIZATION DRAWINGS PREPARED BY KETELSEN ARCHITECTURE AND PLANNING, WITH APPLICATION NUMBER 110016, DATED OCTOBER 09, 2008. THE CONTRACTOR SHALL VERIFY ALL EXISTING JOB CONDITIONS, REVIEW THE PLANS AND VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ALL DISCREPANCIES AND EXCEPTIONS BEFORE PROCEEDING WITH ANY WORK. DRAWINGS FOR THE EXISTING CONSTRUCTION ARE AVAILABLE FOR REVIEW.
- 9. ALL WORK NOT INDICATED AS EXISTING (E) SHALL BE ASSUMED TO BE NEW (N).
- 10. ANY REMOVAL, CUTTING, DRILLING, ETC OF EXISTING WORK SHALL BE PERFORMED WITH GREAT CARE. SMALL TOOLS SHALL BE USED IN ORDER NOT TO JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE STRUCTURE. IF STRUCTURAL MEMBERS OR MECHANICAL, ELECTRICAL, OR ARCHITECTURAL ELEMENTS NOT INDICATED FOR REMOVAL INTERFERE WITH THE NEW WORK, THE ARCHITECT/ENGINEER SHALL BE IMMEDIATELY NOTIFIED AND PRIOR APPROVAL SHALL BE OBTAINED BEFORE REMOVAL OF THE MEMBERS.
- 11. DO NOT OVER CUT EXISTING WOOD, CONCRETE, MASONRY OR OTHER WORK TO REMAIN. CUTS SHALL BE MADE NEATLY TO A CORNER, THEN ALTERNATE MEANS SHALL BE USED TO REMOVE REMAINING MATERIAL. CONTRACTOR IS RESPONSIBLE FOR REPAIR/REPLACEMENT OF OVER CUT MATERIAL AS DIRECTED BY THE ARCHITECT AND/OR ENGINEER.
- 12. EXISTING DAMAGED STRUCTURAL MEMBERS WHICH ARE UNCOVERED SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND REPAIR.
- 13. NOTIFY ZFA FOR GENERAL ON SITE REVIEW OF:STRUCTURAL WOOD FRAMING.

NOTIFY ZFA FOR REVIEW PRIOR TO COVERING ABOVE LISTED WORK. PROVIDE 2 WORKING DAYS MINIMUM SCHEDULING NOTICE PRIOR TO REVIEW DATE.

	SHEET INDEX
S-0.1	GENERAL NOTES
S-1.1	TYPICAL DETAILS
S-2.1	CEILING FRAMING PLAN
S-2.2	ROOF FRAMING PLAN

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 01-120920 INC:

REVIEWED FOR

SS FLS ACS DATE: 8/22/2023



Main: 636 Fifth Street, Santa Rosa, CA 95404 East Bay:

East Bay:
55 Harrison Street, Suite 525,
Oakland, CA 94607
(707) 576-0829

ZFA STRUCTURAL ENGINEERS

1212 fourth street | suite z
santa rosa ca 95404
zfa job no. 23209



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HVAC REPLACEMENT

8511 LIMAN WAY ROHNERT PARK, CA 94928

COTATI-ROHNERT PARK UNIFIED SCHOOL DISTRICT

REVISIO	NS	

I	DSA APP NO.	01-120920
	ZFA NO:	23209
	ENGR / PM:	TK / SCH
	DRAWING SCALE:	As indicated
	PTN: 73882-47	FILE NO: 49-17
ı		

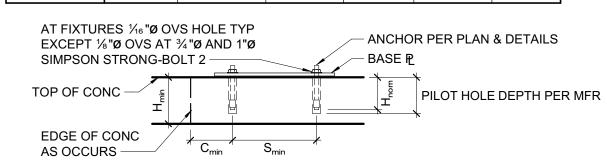
JULY 19, 2023

CD

GENERAL NOTES

SHEET NUMBE

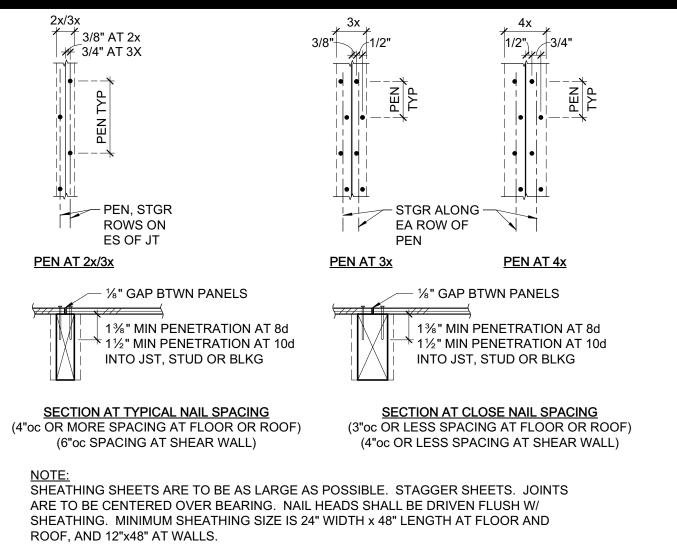
S-0.¹



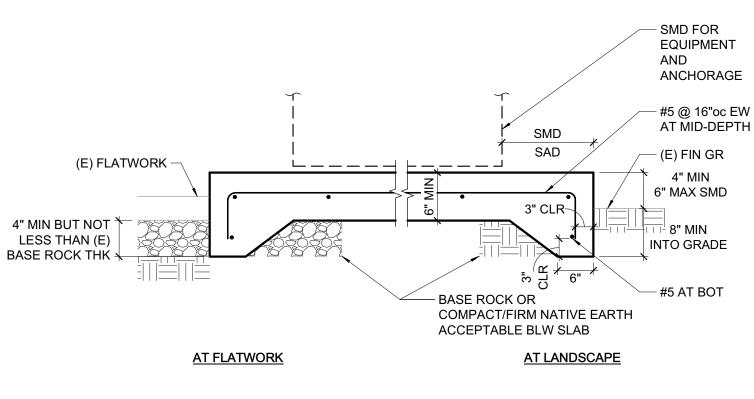
1. INSTALL EXPANSION ANCHORS PER MANUFACTURER'S INFORMATION AND ICC REPORT INSTRUCTIONS. SPECIAL INSPECTION IS REQUIRED PER SECTION 1705A AND THE REQUIREMENTS OF THE ICC REPORTS.

- 2. CONTRACTOR TO VERIFY MINIMUM EDGE DISTANCES, SPACING AND THICKNESS ARE IN ACCORDANCE W/ SCHEDULE PRIOR TO INSTALLING ANCHOR.
- 3. NO CORE DRILLING PERMITTED. USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN 1" CLEARANCE BETWEEN REINFORCEMENT AND THE DRILLED-IN ANCHOR. FILL ABANDONED HOLES W/ HIGH STRENGTH GROUT.
- 4. THE SPECIAL INSPECTOR SHALL PERFORM PERIODIC/CONTINUOUS INSPECTION IN ACCORDANCE WITH TABLE 1705A.3. THE SPECIAL INSPECTOR SHALL INSPECT ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE CLEANLINESS, EMBEDMENT DEPTH, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, DRILL BIT DIAMETER, HOLE DEPTH, EDGE DISTANCE(S), ANCHOR SPACING(S), CONCRETE THICKNESS, AND TIGHTENING TORQUE.
- 5. TEST ANCHORS IN ACCORDANCE W/ CBC SECTION 1910A.5.





SHEATHING NAILING



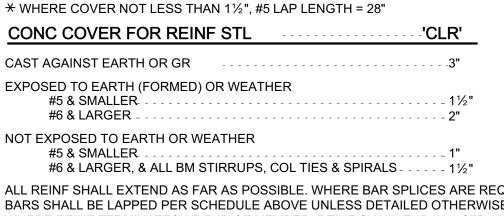
MECHANICAL PAD



34"X (CLASS B TOP BAR) BAR SPCG SHALL NOT BE LESS THAN 4x BAR DIA OR 4".

SIZE

#3



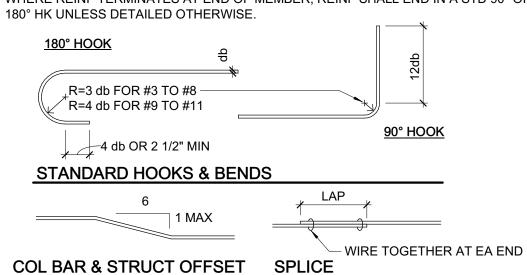
GREATER - (STAGGER SPLICES)

LAP LENGTH

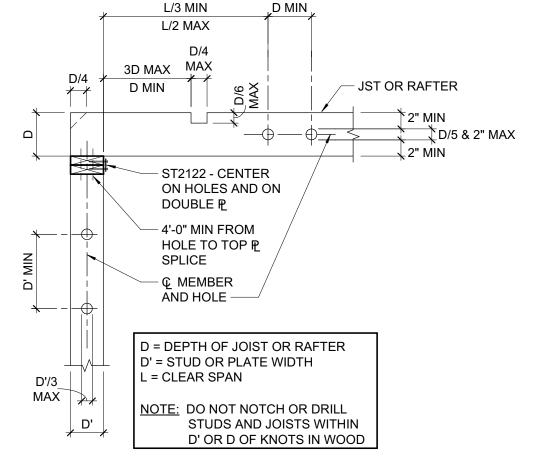
17"

24"

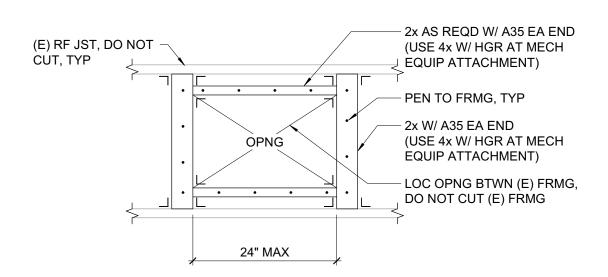
ALL REINF SHALL EXTEND AS FAR AS POSSIBLE. WHERE BAR SPLICES ARE REQUIRED, BARS SHALL BE LAPPED PER SCHEDULE ABOVE UNLESS DETAILED OTHERWISE. WHERE REINF TERMINATES AT END OF MEMBER, REINF SHALL END IN A STD 90° OR



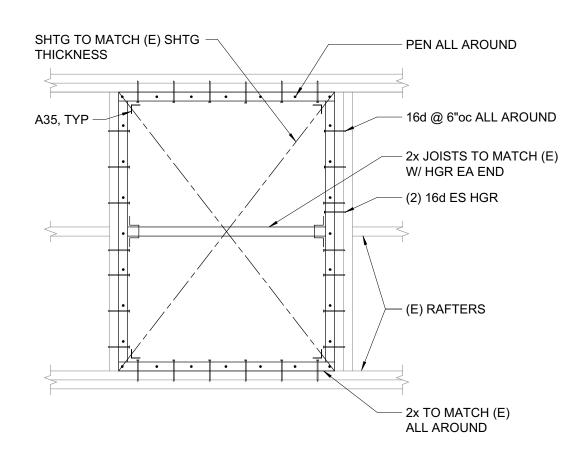
TYPICAL REINFORCING DETAILS (fc = 3000psi MIN)



HOLES AND NOTCHES IN WOOD STUDS, JOISTS, AND PLATES



PLAN VIEW PENETRATION AT EXISTING ROOF



INFILL AT EXISTING ROOF

10d @ 6"oc	RIM JOIST/BLKG TO TOP 🖺 , TOE NAIL-
	TRUSSES, JOISTS OR RAFTERS AT ALL BEARING POINTS TOE NAILS EACH SIDE
(2) 10d	TOE NAILS EACH SIDE
	RUSSES, JOISTS OR RAFTERS TO SIDE OF STUDS EIGHT (8) INCH JOISTS OR LESS FOR EACH ADDITIONAL 4 INCHES OF DEPTH OF JOIST
(3) 16d	EIGHT (8) INCH JOISTS OR LESS
(1) 16d	FOR EACH ADDITIONAL 4 INCHES OF DEPTH OF JOIST
	BLOCKING BETWEEN JOISTS OR RAFTERS:
(2) 10d	TO JOIST OR RAFTERS - TOE NAILS EA SIDE, EA END
(2) 10d	TO JOIST OR RAFTER BEARINGS - TOE NAILS EA SIDE :
(2) 10d OR (2) 16d	BLOCKING BETWEEN STUDS, EACH END TOE NAILSBRIDGING TO JOIST, TOE NAIL EACH END
(2) 8d	BRIDGING TO JOIST, TOE NAIL EACH END
(2) 16d	2" SUBFLOOR TO JOIST OR GIRDER, BLIND & FACE NAIL SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL
16d @ 16"oc	SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL
(0) 40 1 0 40"	SOLE PLATE TO JOIST OR BLOCKING AT
(3) 16d @ 16"oc	BRACED WALL PANELS
(4) 0.1	BRACED WALL PANELS
404 @ 428	STUD TO SOLE PLATE, TOE NAIL
101 @ 24"	DOUBLE STUDS AT EXTERIOR WALLS, FACE NAIL OUBLE STUDS, FACE NAIL OUBLE TOP PLATES, FACE NAIL
16d @ 12"00	DOUBLE STUDS, FACE NAIL
(2) 16d	SOD BLATEO, LARO & INTERREPOTATIONO, FACE MAIL
16"00 ALONG EACH EDGE	TOP PLATES, LAPS & INTERSECTIONS, FACE NAIL 160
(3) 16d	CONTINUOUS READER, TWO PIECES 100
	DOUBLE TOP PLATE LAP AT CORNER CONTINUOUS HEADER TO STUD, TOE NAIL
(3) 16d	CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL
(3) 10d 16d (3)	DEILING JOISTS, LAPS OVER PARTITIONS, PACE NAIL
100 (3) 100 (3) 100 (3) 100 (3) 100 (3) 100 (3) 100 (3) 100 (3) 100 (3) 100 (3) 100 (3) 100 (3) 100 (3) 100 (3)	CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL
100 @ 12 00	POST TO SILL/SOLE/TOP PLATE, EACH SIDE TOE NAIL

NAILING SCHEDULE

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 01-120920 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌 DATE:



636 Fifth Street, Santa Rosa, CA 95404 East Bay: 55 Harrison Street, Suite 525, Oakland, CA 94607 (707) 576-0829

ZFA STRUCTURAL ENGINEERS 1212 fourth street | suite z santa rosa ca 95404 707.526.0992



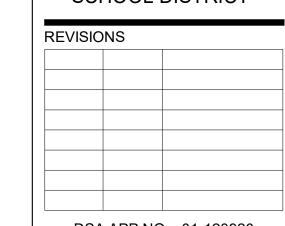
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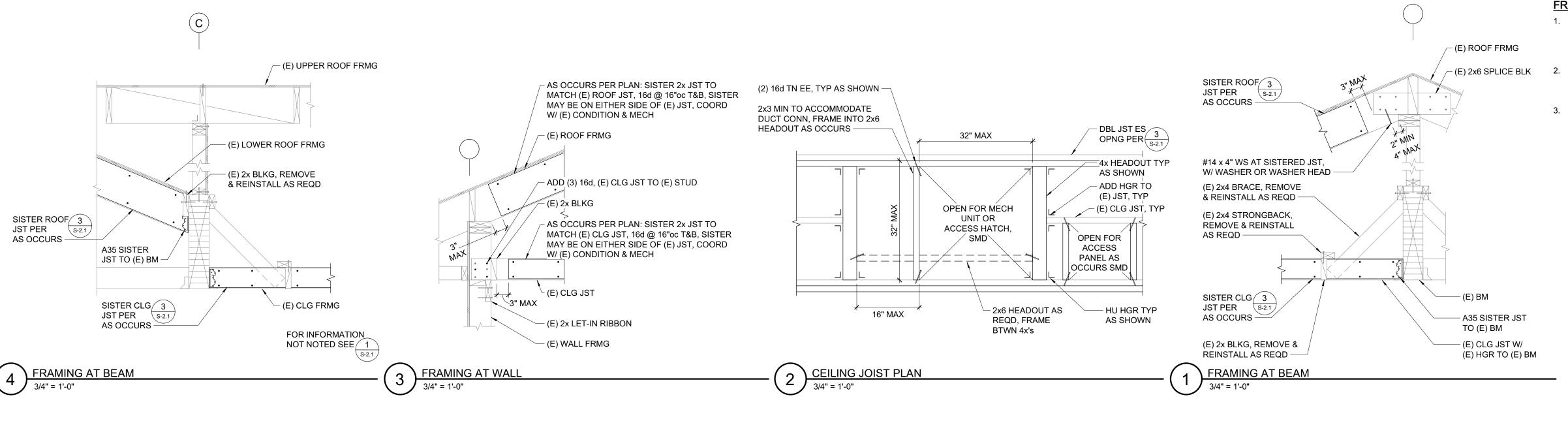
COTATI-ROHNERT PARK UNIFIED SCHOOL DISTRICT



DSA APP NO. 01-120920 ZFA NO: TK / SCH ENGR / PM: DRAWING SCALE: As indicated PTN: 73882-47 FILE NO: 49-17

JULY 19, 2023

TYPICAL DETAILS



FRAMING PLAN NOTES:

- REFER TO SHEETS <u>S-0.1</u> AND <u>S-1.1</u> FOR GENERAL NOTES AND TYPICAL DETAILS.
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 CONVENIENCE ONLY. ALL GENERAL NOTES AND TYPICAL DETAIL SHEETS NOTED
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- 3. MECHANICAL, ELECTRICAL AND PLUMBING PENETRATIONS THROUGH WALLS, ROOFS OR FLOORS SHALL BE PER REFERENCES BELOW UNLESS SHOWN AND DETAILED OTHERWISE ON THE STRUCTURAL PLANS. NOTIFY ARCHITECT/ENGINEER PRIOR TO ANY INSTALLATION NOT CONFORMING TO THESE DETAILS.

PENETRATIONS THROUGH FLOORS/ROOFS SHALL BE PER 2/S-1.1.

PENETRATIONS THROUGH STUDS/JOISTS SHALL BE PER 1/S-1.1.

PENE	PENETRATIONS THROUGH STUDS/JOISTS SHALL BE PER <u>1/S-1.1</u> .				
	PLAN LEGEND				
SYMBOL	REFERENCE DETAIL	DESCRIPTION			
E	<u>C/S-0.1</u>	INDICATES HANGER.			
		INDICATES LEDGER.			
88		INDICATES GRIDLINE.			
1,000#		INDICATES APPROXIMATE LOCATION, SIZE AND MAXIMUM WEIGHT OF MECHANICAL UNIT. SEE MECHANICAL DRAWINGS FOR ANCHORAGE AND ADDITIONAL INFORMATION.			
		INDICATES EXISTING FRAMING.			
		INDICATES EXISTING SHEAR WALL BELOW.			

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

REVIEWED FOR

SS 🗹 FLS 🗹 ACS 🗌

8/22/2023

QUATTROCCHI KWOK

ARCHITECTS

636 Fifth Street, Santa Rosa, CA 95404

East Bay: 55 Harrison Street, Suite 525, Oakland, CA 94607

(707) 576-0829

APP: 01-120920 INC:

DATE: __

1212 fourth street | suite z santa rosa ca 95404 707.526.0992 capyright © 2023

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COTATI-ROHNERT PARK UNIFIED SCHOOL DISTRICT

REVISI	REVISIONS			
DS) 01-120920		

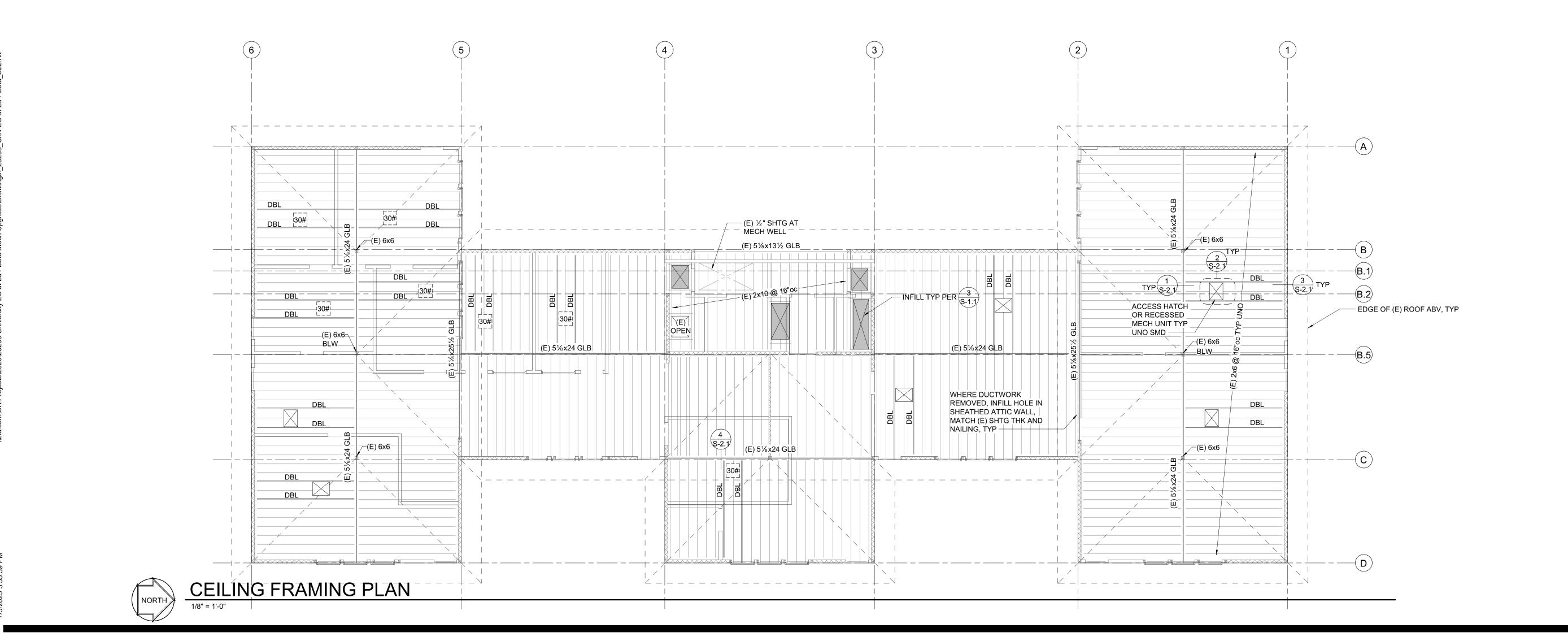
A NO:	23209
IGR / PM:	TK / SCH
RAWING SCALE:	As indicated

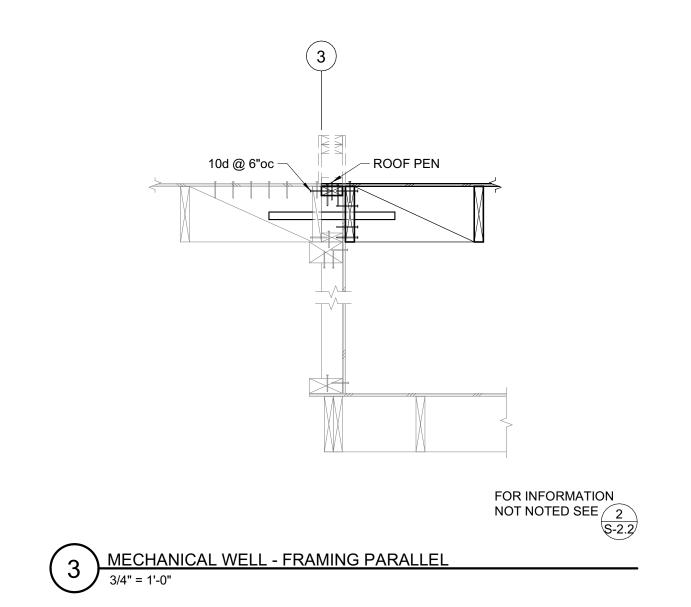
JULY 19, 2023

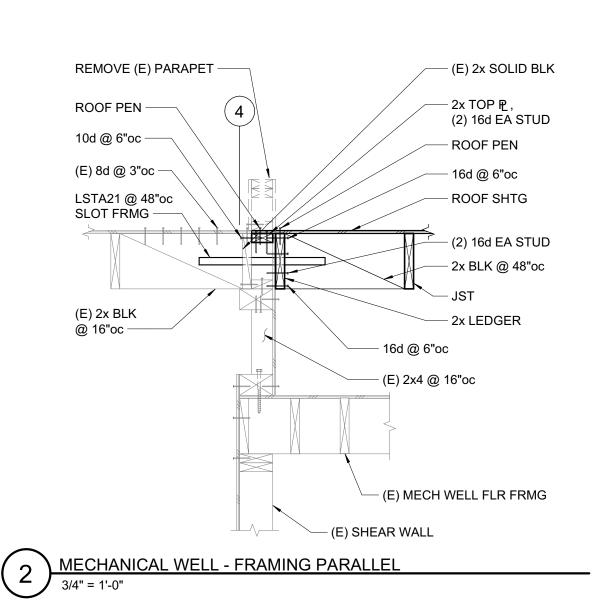
CEILING FRAMING PLAN

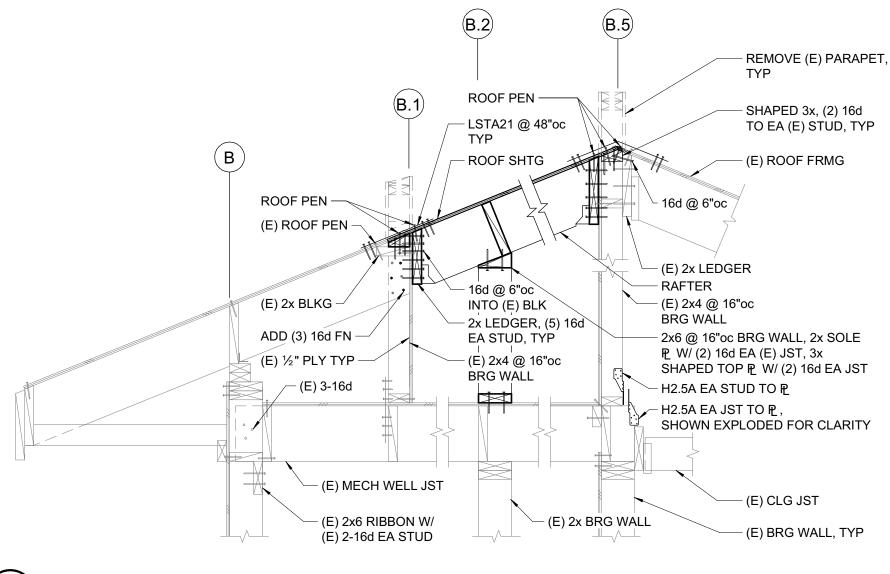
SHEET NUMBE

S-2.1









1 MECHANICAL WELL - FRAMING PERPENDICULAR
3/4" = 1'-0"

FRAMING PLAN NOTES:

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		PLAN LEGEND
SYMBOL	REFERENCE DETAIL	DESCRIPTION
⊑	<u>C/S-0.1</u>	INDICATES HANGER.
		INDICATES LEDGER.
88—		INDICATES GRIDLINE.
[1,000#]		INDICATES APPROXIMATE LOCATION, SIZE AND MAXIMUM WEIGHT OF MECHANICAL UNIT. SEE MECHANICAL DRAWINGS FOR ANCHORAGE AND ADDITIONAL INFORMATION.
		INDICATES EXISTING FRAMING.
		INDICATES EXISTING SHEAR WALL BELOW.

APP: 01-120920 INC:

REVIEWED FOR

SS FLS ACS

DATE: 8/22/2023

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DIV. OF THE STATE ARCHITEC



QUATTROCCHI KWOK ARCHITECTS

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DS	A APP NO	D. 01-120920

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ZFA NO:			2320
ENGR / PM:			TK / SC

DRAWING SCALE: As indicated
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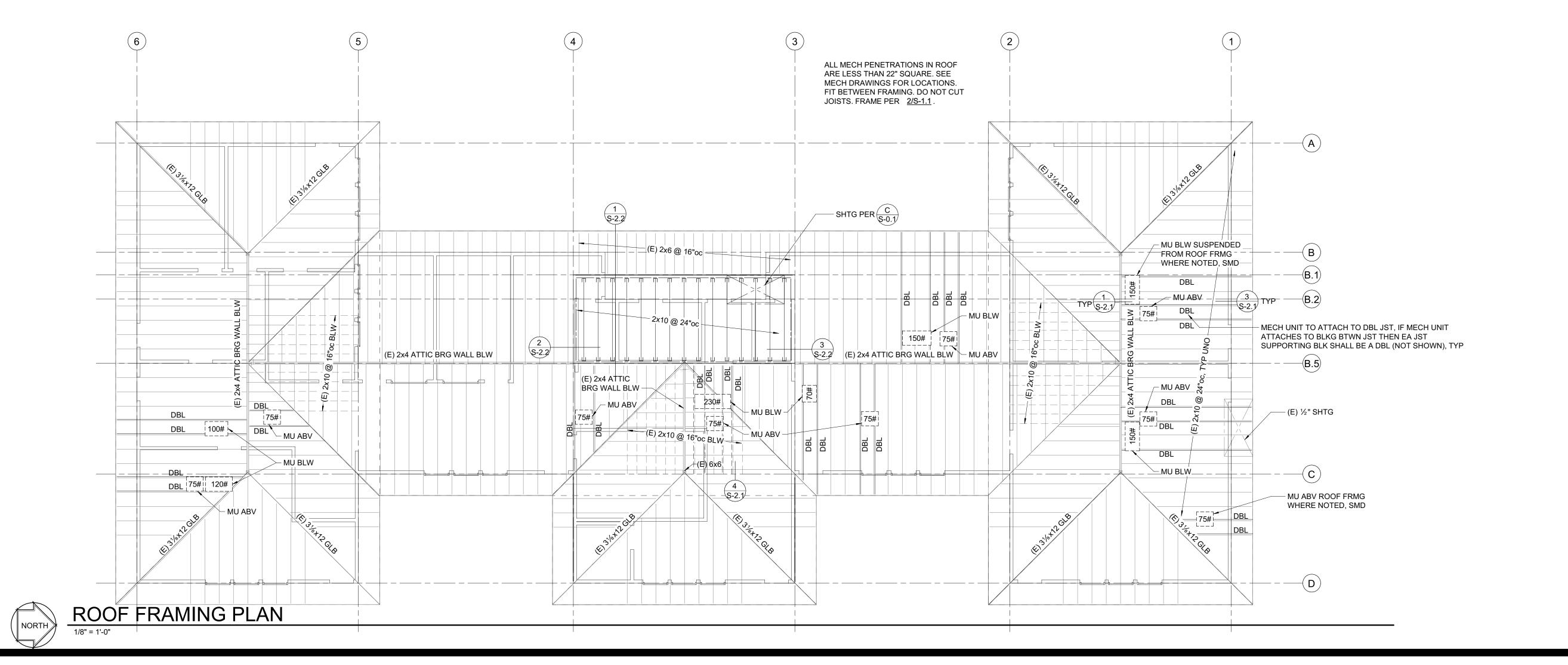
CD JULY 19, 2023

SHEET TITLE

ROOF FRAMING PLAN

SHEET NUMBE

S-2.2



APPLICABLE GOVERNING CODES:

2022 CALIFORNIA BUILDING CODE
2022 CALIFORNIA ELECTRICAL CODE
2022 CALIFORNIA MECHANICAL CODE
2022 CALIFORNIA PLUMBING CODE
2022 CALIFORNIA ENERGY CODE
2022 CALIFORNIA FIRE CODE
2022 CALIFORNIA GREEN BUILDING STANDARDS

A	AIR TERMINAL SCHEDULE MANUFACTURER: TITUS (EXCEPT AS NOTED)										
CD-1		CEILING DIFFUSER	TDC - COMPLETE WITH EQUALIZING GRID, THROW-REDUCING VANES, STEEL CONSTRUCTION								
CR	Q	CEILING RETURN	50F - 1/2" x 1/2" x 1/2" EGG(ALUMINUM CORE WITH AL	,							

Applicable Code: 2022 CBC

04/11/2023

Revised: 04/11/2023

MEP Componet Anchorage Note

All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA-approved construction documents. The following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2022 CBC Sections 1617A.1.18 through 1617A.1.26 and ASCE 7-16 Chapters 13, 26, and 30:

- 1. All permanent equipment and components.
- 2. Temporary, movable or mobile equipment that is permanently attached (e.g. hard wired) to the building utility services such as electricity, gas or water. "Permanently attached" shall include all electrical connections except plugs for 110/220 volt receptacles having a flexible cable.
- 3. Temporary, movable or mobile 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 demonstrate design compliance with the references noted above. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit. Flexible connections must allow movement in both trasverse and longitudinal directions:

- A. Components weighing less than 400 pounds and having a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.
- B. Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.

The anchorage of all mechanical, electrical and plumbing components shall be subject to the approval of the design professional in general responsible charge of structural engineer delegated responsibility and acceptance by DSA. The project inspector will verify that all components and equipment have been anchored in accordance with the above requirements.

Piping, Ductwork, and Electrical Distribution System Bracing Note

Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-16 Section 13.3 as defined in ASCE 7-16 Sections 13.6.5, 13.6.6, 13.6.7, 13.6.8; and 2022 CBC, Sections 1617A.1.24, 1617A.1.25 and 1617A.1.26.

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a preapproved installation guide (e.g., HCAi 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 haging and bracing of the distribution systems. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems (E):

MP MD PP E Option 1: Detailed on the approved drawings with project specific notes and details

MPX MDX PP E Option 2: Shall comply with the applicable HCAi Pre-Approval (OPM #) #OPM-0043-13

ACCEPTANCE TESTING

WHEN CERTIFICATION IS REQUIRED BY TITLE 24, PART 1, SECTION 10-103.2, THE ACCEPTANCE TESTING SPECIFIED BY SECTION 120.5(a) SHALL BE PERFORMED BY A CERTIFIED MECHANICAL ACCEPTANCE TEST TECHNICIAN (CMATT). IF THE CMATT IS OPERATING AS AN EMPLOYEE, THE CMATT SHALL BE EMPLOYED BY A CERTIFIED MECHANICAL ACCEPTANCE TEST EMPLOYER. THE CMATT SHALL DISCLOSE ON THE CERTIFICATE OF ACCEPTANCE A VALID CMATT CERTIFICATION IDENTIFICATION NUMBER ISSUED BY AN APPROVED ACCEPTANCE TEST TECHNICIAN CERTIFICATION PROVIDER. THE CMATT SHALL COMPLETE ALL CERTIFICATE OF ACCEPTANCE DOCUMENTATION IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS IN SECTION 10-103(a)4.

(ASHRAE 15:8.10.1) CMC 1109.4.1 Protection from Mechanical Damage. Passages shall not be obstructed by refrigerant piping. Refrigerant piping shall not be located in an elevator, dumbwaiter, or other shaft containing a moving object, or in a shaft that has openings to living quarters, or to means of egress. Refrigerant piping shall not be installed in an enclosed public stairway, stair landing, or means of egress. (ASHRAE 15:8.10.2)

	OSA MECHANICAL VENTILATION SCHEDULE										
					CEC TABL	E 120.1-A			SYSTEM DESIGN		
ROOM#	ROOM NAME	SF	ROOM CLASSIFICATION	(MIN MIN) OA RATE CFM/FT2	(MIN MAX) OA RATE CFM/FT2	(MIN MIN) * SF	(MIN MAX) * SF	DESIGN (OA) (MIN MIN)	DESIGN (OA) (MIN MAX)	UNIT	
A1	LOBBY	315	62-Office Buildings - Main Entry Lobbies	0.15	0.5	48	158	50	175	FC-A4	
A1A	CONFERENCE ROOM	409	62-General - Conference/Meeting	0.15	0.5	62	205	65	210	FC-A1A	
A1B	MAIL ROOM	123	62-Office Buildings - Office Space	0	0.15	0	19	50	50	FC-A4	
A2A	OFFICE	212	62-Office Buildings - Office Space	0	0.15	0	32	50	50	FC-A2A / SF-A2A	
A2B	OFFICE	198	62-Office Buildings - Office Space	0	0.15	0	30	50	50	FC-A2B / SF-A2E	
A2C	OFFICE	300	62-Office Buildings - Office Space	0	0.15	0	45	50	50	FC-A2C / SF-A2C	
A2D	WORK ROOM	179	62-Office Buildings - Office Space	0	0.15	0	27	50	50	FC-A2D / SF-A2D	
A3	OFFICE	367	62-Office Buildings - Office Space	0	0.15	0	56	50	60	FC-A4	
A3	OFFICE	148	62-Office Buildings - Office Space	0	0.15	0	23	50	50	FC-A4	
A3A	OFFICE	180	62-Office Buildings - Office Space	0	0.15	0	27	50	50	FC-A3A / SF-A3A	
A3B	OFFICE	176	62-Office Buildings - Office Space	0	0.15	0	27	50	50	FC-A3B / SF-A3B	
A3C	OFFICE	212	62-Office Buildings - Office Space	0	0.15	0	32	50	50	FC-A3C / SF-A3C	
A4	HALL	349	62-Office Buildings - Office Space	0	0.15	0	53	50	55	FC-A4	
A4	WORK ROOM	255	62-Office Buildings - Office Space	0	0.15	0	39	50	50	FC-A4	
A4	ENTRY	51	62-Office Buildings - Office Space	0	0.15	0	8	50	50	FC-A4	
A5	CLASSROOM	918	62-Educational Facilities - Classrooms Age 9 Plus	0.15	0.38	138	349	140	350	FC-A5	
A6	CLASSROOM	895	62-Educational Facilities - Classrooms Age 9 Plus	0.15	0.38	135	341	140	345	FC-A6	
A7	CLASSROOM	898	62-Educational Facilities - Classrooms Age 9 Plus	0.15	0.38	135	342	140	345	FC-A7	

HVAC LEGEND ABBREVIATION DESCRIPTION SYMBOL **EQUIPMENT TYPE** $\langle x \rangle$ EQUIPMENT NUMBER DETAIL / DRAWING NUMBER X-X SHEET NUMBER SECTION THRU SUPPLY AIR SA OR OA OR OUTSIDE AIR DUCT SECTION THRU RETURN AIR RA OR EA OR EXHAUST AIR DUCT ROUND DUCT DOWN \leftarrow DN SLOPE DUCT DOWN OR UP DN OR UP IN DIRECTION OF FLOW ACOUSTICAL LINING FC FLEXIBLE DUCT CONNECTION VD **VOLUME DAMPER** FIRE DAMPER FD TV TURNING VANES **--**FLEXIBLE DUCT 45° ROUND DUCT TAKE-OFF 45° RECTANGULAR DUCT TAKE-OFF 90° TURN - ROUND DUCT 90° RADIUS TURN - ROUND OR RECTANGULAR DUCT SQUARE TO ROUND DUCT TRANSITION **DUCT TRANSITION** RECTANGULAR DUCT 90° SPLIT THERMOSTAT @ 46" AFF MAX TO CENTER LINE **ACCESS PANEL** POC POINT OF CONNECTION POD POINT OF DEMOLITION BRAKE HORSEPOWER HORSEPOWER SEE ARCHITECTURAL DRAWINGS SAD SSD SEE STRUCTURAL DRAWINGS SEE CIVIL DRAWINGS SCD

	BLDG A 'MECHANICAL' SHEET LIST	
M-A1.1	BLDG A MECHANICAL SHEDULES & LEGENDS	
M-A1.2	BLDG A MECHANICAL SHEDULES	
MD-A2.1	BLDG A MECHANICAL DEMOLITION PLAN	
MD-A2.2	BLDG A MECHANICAL DEMOLITION ROOF PLAN	
M-A2.1	BLDG A MECHANICAL FLOOR PLAN	
M-A2.2	BLDG A MECHANICAL PIPING PLAN	
M-A2.3	BLDG A MECHANICAL CONDENSATE PIPING PLAN	-
M-A2.4	BLDG A MECHANICAL ROOF PLAN	
M-A3.1	MECHANICAL DETAILS	
M-A3.2	MECHANICAL DETAILS	
M-A3.3	MECHANICAL & PLUMBING DETAILS	
M-A4.1	PIPING AND WIRING DIAGRAMS	
M-A5.1	MECHANICAL CONTROLS	
M-A5.2	MECHANICAL CONTROLS	

ABOVE FINISH CEILING

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DIV. OF THE STATE ARCHITECT

APP: 01-120920 INC:
REVIEWED FOR
SS FLS ACS
DATE: 8/22/2023



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UNIVERSITY ELEMENTARY AT LA FIESTA HVAC REPLACEMENT

8511 LIMAN WAY ROHNERT PARK, CA 94928

COTATI-ROHNERT PARK UNIFIED SCHOOL DISTRICT

REVISIONS											
DSA	APP NO	01-120920									

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DRAWING SCALE:
PTN: 73882-47 FILE NO: 49-17

2173.00

CD

ARCH PROJECT NO:

JULY 19, 2023

BLDG A
MECHANICAL
SHEDULES &
LEGENDS

M-A1.1

FAN COIL INDOOR UNIT SCHEDULE

	17 (IV COIL II ID COIL CIVIT COILLEGEL																		
							TOTAL EXTERNAL	COOLING CAPA		ELECTRICAL DATA									
			NOMINAL			DESIGN OA	STATIC	COOLING	HEATING										
			CAPACITY		DESIGN OA	(MIN/MAX)	PRESSURE	CAPACITY	CAPACITY				ELECTRIC			FAN	BRANCH		
MARK	MFR	MODEL	TONS	CFM	(MIN/MIN) CFM	CFM	IN WG	(BTUH)	(BTUH)	V-Ø-HZ	MCA	MOCP	HEATER	FILTER	WEIGHT	OUTPUT(W)	SELECTOR	SERVICE	REMARKS
FC-A1A	SAMSUNG	AM018TNZDCH/AA	1.5	430	65	210	0.7	18000	22000	208-230/1/60	13.63	15	3 KW	2" MERV 13 FILTER	109 lb	290	BS A1	CONFERENCE ROOM A1A	1,2,4,5,6,7,10,11
FC-A2A	SAMSUNG	AM007NNNDCH/AA	0.5	318	50	50	-	7500	8700	208-230/1/60	0.24	15	NA	WASHABLE FILTER	26 lb	65	BS A1	OFFICE A2A	1,2,9,12
FC-A2B	SAMSUNG	AM007NNNDCH/AA	0.5	318	50	50	-	7500	8700	208-230/1/60	0.24	15	NA	WASHABLE FILTER	26 lb	65	BS A1	OFFICE A2B	1,2,9,12
FC-A2C	SAMSUNG	AM009NNNDCH/AA	0.75	353	50	50	-	9500	10500	208-230/1/60	0.24	15	NA	WASHABLE FILTER	26 lb	65	BS A1	OFFICE A2C	1,2,9,12
FC-A2D	SAMSUNG	AM007NNNDCH/AA	0.5	318	50	50	-	7500	8700	208-230/1/60	0.24	15	NA	WASHABLE FILTER	26 lb	65	BS A1	WORK ROOM A2D	1,2,9,12
FC-A3A	SAMSUNG	AM007NNNDCH/AA	0.5	318	50	50	-	7500	8700	208-230/1/60	0.24	15	NA	WASHABLE FILTER	26 lb	65	BS A1	OFFICE A3A	1,2,9,12
FC-A3B	SAMSUNG	AM007NNNDCH/AA	0.5	318	50	50	-	7500	8700	208-230/1/60	0.24	15	NA	WASHABLE FILTER	26 lb	65	BS A1	OFFICE A3B	1,2,9,12
FC-A3C	SAMSUNG	AM007NNNDCH/AA	0.5	318	50	50	-	7500	8700	208-230/1/60	0.24	15	NA	WASHABLE FILTER	26 lb	65	BS A1	OFFICE A3C	1,2,9,12
FC-A4	SAMSUNG	AM048TNZDCH/AA	4	1410	350	500	1.0	48000	54000	208-230/1/60	24.6	30	5 KW	2" MERV 13 FILTER	214 lb	590	BS A2	HALL A4	1,2,4,5,6,7,10,11
FC-A5	SAMSUNG	AM036TNZDCH/AA	3	1053	140	350	1.0	36000	40000	208-230/1/60	24.20	30	5 KW	2" MERV 13 FILTER	138 lb	410	BS A2	CLASSROOM A5	1,2,4,5,6,7,10,11
FC-A6	SAMSUNG	AM036TNZDCH/AA	3	1053	140	345	1.0	36000	40000	208-230/1/60	24.20	30	5 KW	2" MERV 13 FILTER	138 lb	410	BS A2	CLASSROOM A6	1,2,4,5,6,7,10,11
FC-A7	SAMSUNG	AM036TNZDCH/AA	3	1053	140	345	1.0	36000	40000	208-230/1/60	24.20	30	5 KW	2" MERV 13 FILTER	138 lb	410	BS A2	CLASSROOM A7	1,2,4,5,6,7,10,11

MOP

SAMSUNG

MODEL NO.

AM240BXVGFR/AA

2. SEE C/M-A3.1 FOR MOUNTING DETAIL 3. FOR PIPING AND WIRING SEE M-A4.1

MARK

UNIT CAPACITIES (BTUH)

1. PROVIDE WITH ALL NECESSARY REFRIGERATION PIPING & APPURTENANCES; R401A REFRIGERANT

240000.0

- 3. HORIZONTAL POSITION FAN COIL MOUNT PER DETAIL A/M-A3.1 4. FOR CONTROLS FOR DUCTED FAN COIL WITH ECONOMIZER SEE SHEET M-A5.1

VRF OUTDOOR UNIT SCHEDULE

10.60 22.95 25.05 3.30 208-230/3/60

HEATING COOLING EER IEER SCHE COP

ELECTRICAL

DATA

V-Ø-HZ

- 7. PROVIDE WITH ELECTRIC STRIP HEATER 8. PROVIDE WITH CONDENSATE PUMP
- REMARKS 1. PROVIDE WITH ALL NECESSARY REFRIGERATION PIPING & APPURTENANCES; R401A REFRIGERANT 5.PROVIDE W/ FILTER RACK FOR 2" MERV 13 FILTER. 9. FOR CONTROLS FOR CEILING CASSETT WITH INTERLOCKED SUPPLY FAN SEE SHEET M-A5.2 12. FOR CEILING CASSETT MOUNTING DETAIL SEE D/M-A3.1 2. SEE REFRIGERATION PLAN FOR T-STAT AND CO2 SENSOR LOCATIONS SEE SHEET M-A2.2 6. PROVIDE WITH MIRCOMETL MIXING BOX 10. OWNER PROVIDED CONTRACTOR INSTALLED, PROVIDE WITH ECONOMIZER MIXING BOX WITH
 - ULTRA LOW LEAK DAMPERS WITH BELIMO ACTUATORS 11. PROVIDE WITH CONDENSATE FLOW SWITCH (LITTLE GIANT ACS-4 SERIES OR EQUAL). PROVIDED,

INSTALLED, AND WIRED BY CONTROL CONTRACTOR. UPON DETECTION OF FLOW THE POWER OF UNIT SHALL BE INTERRUPTED.

WEIGHT REMARKS

915.4

BRANCH SELECTOR SCHEDULE											
		MODEL	ELEC ⁻	TRICAL D							
MARK	MFR	NUMBER	V-Ø-HZ	MCA	MOCP	WEIGHT	REMARK				
BS A1	SAMSUNG	MCU-S8NEK1UN	208-230/1/60	2	15	89 lb	1,2,3				
BS A5	SAMSUNG	MCU-S4NEK3N	208-230/1/60	2	15	54 lb	1,2,3				

REMARKS 1. PROVIDE WITH ALL NECESSARY REFRIGERATION PIPING & APPURTENANCES; R401A REFRIGERANT; SEE PIPING AND WIRING DIAGRAM 2. PROVIDE WITH SHUTOFF VALVES AT EACH SET OF INDOOR UNIT BRANCHES 3. SEE E/M-A3.1 FOR MOUNTING DETAIL

SUPPLY FAN SCHEDULE												
MODEL NO AIRFLOW V-Ø-HZ WATTS AMPS WEIGHT SERVICE REMARK												
PANASONIC	FV-15NLFS1	150 CFM	208-1-60	27 W	0.5 A	18 lb	FC-A2B	1,2,3				
PANASONIC	FV-15NLFS1	150 CFM	208-1-60	27 W	0.5 A	18 lb	FC-A2C	1,2,3				
PANASONIC	FV-15NLFS1	150 CFM	208-1-60	27 W	0.5 A	18 lb	FC-A2A	1,2,3				
PANASONIC	FV-15NLFS1	150 CFM	208-1-60	27 W	0.5 A	18 lb	FC-A2D	1,2,3				
PANASONIC	FV-15NLFS1	150 CFM	208-1-60	27 W	0.5 A	18 lb	FC-A3A	1,2,3				
PANASONIC	FV-15NLFS1	150 CFM	208-1-60	27 W	0.5 A	18 lb	FC-A3B	1,2,3				
PANASONIC	FV-15NLFS1	150 CFM	208-1-60	27 W	0.5 A	18 lb	FC-A3C	1,2,3				
	PANASONIC PANASONIC PANASONIC PANASONIC PANASONIC PANASONIC	MFR NO PANASONIC FV-15NLFS1 PANASONIC FV-15NLFS1 PANASONIC FV-15NLFS1 PANASONIC FV-15NLFS1 PANASONIC FV-15NLFS1 PANASONIC FV-15NLFS1 PANASONIC FV-15NLFS1	MFR MODEL NO AIRFLOW PANASONIC FV-15NLFS1 150 CFM PANASONIC FV-15NLFS1 150 CFM	MFR MODEL NO AIRFLOW V-Ø-HZ PANASONIC FV-15NLFS1 150 CFM 208-1-60 PANASONIC FV-15NLFS1 150 CFM 208-1-60	MFR MODEL NO AIRFLOW V-Ø-HZ WATTS PANASONIC FV-15NLFS1 150 CFM 208-1-60 27 W PANASONIC FV-15NLFS1 150 CFM 208-1-60 27 W	MFR MODEL NO AIRFLOW V-Ø-HZ WATTS AMPS PANASONIC FV-15NLFS1 150 CFM 208-1-60 27 W 0.5 A PANASONIC FV-15NLFS1 150 CFM 208-1-60 27 W 0.5 A PANASONIC FV-15NLFS1 150 CFM 208-1-60 27 W 0.5 A PANASONIC FV-15NLFS1 150 CFM 208-1-60 27 W 0.5 A PANASONIC FV-15NLFS1 150 CFM 208-1-60 27 W 0.5 A PANASONIC FV-15NLFS1 150 CFM 208-1-60 27 W 0.5 A	MFR MODEL NO AIRFLOW V-Ø-HZ WATTS AMPS WEIGHT PANASONIC FV-15NLFS1 150 CFM 208-1-60 27 W 0.5 A 18 lb PANASONIC FV-15NLFS1 150 CFM 208-1-60 27 W 0.5 A 18 lb PANASONIC FV-15NLFS1 150 CFM 208-1-60 27 W 0.5 A 18 lb PANASONIC FV-15NLFS1 150 CFM 208-1-60 27 W 0.5 A 18 lb PANASONIC FV-15NLFS1 150 CFM 208-1-60 27 W 0.5 A 18 lb PANASONIC FV-15NLFS1 150 CFM 208-1-60 27 W 0.5 A 18 lb	MFR MODEL NO AIRFLOW V-Ø-HZ WATTS AMPS WEIGHT SERVICE PANASONIC FV-15NLFS1 150 CFM 208-1-60 27 W 0.5 A 18 lb FC-A2B PANASONIC FV-15NLFS1 150 CFM 208-1-60 27 W 0.5 A 18 lb FC-A2C PANASONIC FV-15NLFS1 150 CFM 208-1-60 27 W 0.5 A 18 lb FC-A2D PANASONIC FV-15NLFS1 150 CFM 208-1-60 27 W 0.5 A 18 lb FC-A3A PANASONIC FV-15NLFS1 150 CFM 208-1-60 27 W 0.5 A 18 lb FC-A3B				

1. PROVIDE WITH MERV 13 FILTER

- 2. PROVIDE WITH ELECTRONIC SPEED CONTROLLER AND CABINET TYPE INLINE FILTER BOX.
- 3. INTERLOCK WITH FAN COIL. SEE CONTROL DIAGRAM A/M-A5.2

	SINGLE SPLIT SYSTEM OUTDOOR UNIT SCHEDULE											
							ELEC	TRICAL D	ATA			
MARK	MFR.	MODEL NO.	SEER	EER	COP	HSPF	V-Ø-HZ	MCA	MOCP	WEIGHT	SERVICE	REMARKS
SHP-1	SAMSUNG	AR12TSFACWKXCV	23	13.5	4.25	12.5	208-230/1/60	12.5	20	71	SFC-A8	1-3

- 1. PROVIDE WITH ALL NECESSARY REFRIGERATION PIPING & APPURTENANCES; R401A REFRIGERANT
- 2. SYSTEM TO BE CONFIGURED TO COOLING ONLY, HEATING TO BE LOCKED OUT
- 3. SEE J/M-A3.1 FOR MOUNTING DETAIL

	SPLIT SYSTEM INDOOR UNIT SCHEDULE											
	ELECTRICAL DATA MAX RATED											
							HEATING	MAX				
MARK	MFR	MODEL	AIRFLOW	V-Ø-HZ	MCA	MOCP	OUTPUT	COOLING	FILTER	WEIGHT	SERVICE	REMARKS
SFC-A8	SFC-A8 SAMSUNG AR12TSFABWKNCV 593 CFM POWERED BY OUTDOOR UNIT LOCKED 15000.0 Btu/h WASHABLE 23 lb IDF A8 1-5											
REMA	REMARKS											

- 1. PROVIDE WITH ALL NECESSARY REFRIGERATION PIPING & APPURTENANCES; R401A REFRIGERANT
- 2. SYSTEM COMPLETE WITH WIRED THERMOSTAT.
- 3. PROVIDE WITH CONDENSATE PUMP AND DRAIN SLOPED TO APPROVED RECEPTACLE
- 4. MOUNT PER DETAIL H/M-A3.1 5.POWERED BY OUTDOOR UNIT

	GRAVITY INTAKE SCHEDULE.							
MARK	MFR	MODEL NO	THROAT WIDHT X LENGTH	CURB CAP WIDTH X LENGHT	HOOD WIDTH X LENGHT	SP	WEIGHT	REMARKS
GI 1	GREENHECK	FGI 20X20	20"x20"	26"x26"	37"x39"	0.25 in-wg	61 lb	1,2
GI 2	GREENHECK	FGI 14X14	14"x14"	20"x20"	29"x27"	0.25 in-wg	43 lb	1,2
REMARKS								

PROVIDE WITH BACKDRAFT DAMPER

PROVIDE WITH SLOPED SOUND ATTENUATED CURB FOR MOUNTING SEE DETAIL B/M-A3.1

GRAVITY RELIEF SCHEDULE.								
			THROAT WIDHT X	CURB CAP WIDTH X	HOOD WIDTH X			
MARK	MFR	MODEL NO	LENGTH	LENGHT	LENGHT	SP	WEIGHT	REMARKS
GR 1	GREENHECK	FGR 24X24	24"x24"	30"x30"	38"x39"	0.25 in-wg	69 lb	1,2

PROVIDE WITH BACKDRAFT DAMPER PROVIDE WITH SLOPED SOUND ATTENUATED CURB FOR MOUNTING SEE DETAIL B/M-A3.1

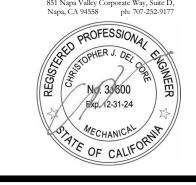
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QUATTROCCHI KWOK ARCHITECTS

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UNIVERSITY **ELEMENTARY AT** LA FIESTA **HVAC** REPLACEMENT

8511 LIMAN WAY ROHNERT PARK, CA 94928

COTATI-ROHNERT PARK UNIFIED SCHOOL DISTRICT

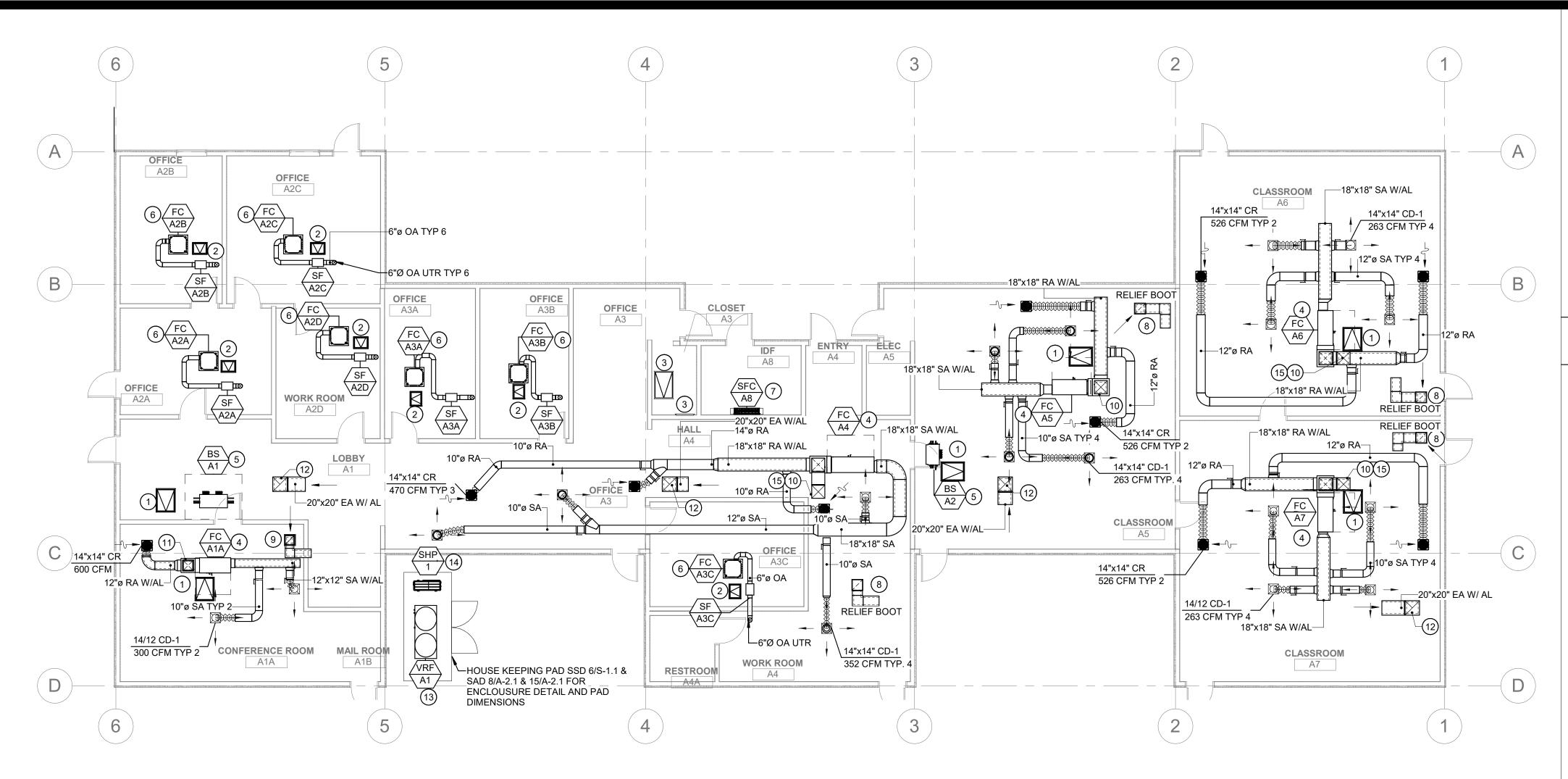
OCHOOL DIGITATO						
REVISIO	REVISIONS					
DSA	APP NO	01-120920				

2173.00 ARCH PROJECT NO: BM/MQ DRAWN BY:

DRAWING SCALE: FILE NO: 49-17 PTN: 73882-47

JULY 19, 2023

BLDG A MECHANICAL SHEDULES





GENERAL NOTES

- FOR MECHANICAL GENERAL NOTES, LEGENDS, AND SYMBOLS, REFER TO SHEET M-A1.1
- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE MECHANICAL WORK WITH OTHER TRADES. MAKE ANY OFFSETS AS REQUIRED TO AVOID CONFLICT WITH PIPING, LIGHT FIXTURES, SKYLIGHTS, ELECTRICAL CONDUITS, DATA WIRING ETC..
- CONTRACTOR SHALL COORDINATE ALL GRILLE LOCATIONS AND CEILING TYPES PRIOR TO ORDERING GRILLES, SEE ARCHITECTURAL CEILING PLANS AND ELECTRICAL LIGHTING
- D. WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWING OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, MECHANICAL ENGINEER AND FIELD INSPECTOR OF THE GOVERNING AUTHORITY.

SHEET NOTES

- 1 PROVIDE WITH 24"x30" MECHANICAL ACCESS CEILING HATCH SAD
- 2 PROVIDE WITH 14"x18" MECHANICAL ACCESS CEILING HATCH SAD
- 3 EXISTING ACCESS HATCH
- 4 INSTALL HORIZONTAL FAN COIL WITH MICROMTL MIXING BOX PLENUM WITH BELIMO ACTUATORS FOR OUTSIDE AIR AND RETURN AIR DAMPERS. ISTALL MERV13 FILTER RACK & SPRING ISOLOLATOR AT EACH CORNER INSTALL PER DETAIL





A M-A3.1

M-A3.1

- 6 INSTALL CEILING CASSETT FAN COIL WITH INTERLOCKED SUPPLY FAN FOR OUTSIDE AIR INTAKE. PROVIDE WITH SPRING ISOLOLATOR AT EACH CORNER INSTALL PER DETAIL 7 INSTALL WALL MOUNTED FAN COIL. MOUNT AS HIGH AS
- **DETAIL SEE** 8 INSTALL 14"X14" W/1" AL RELIEF BOOT WITH 14"X14" CR GRILLE. DISCHARGE RELIEF INTO ATTIC

POSIBLE. PROVIDE WITH CONDENSATE PUMP. FOR MOUNTING H

- 9 INSTALL 12"X12" W/1" AL RELIEF BOOT WITH 14"X14" CR GRILLE. DISCHARGE RELIEF INTO ATTIC
- 10 18"X18" DUCT W/ 1" AL UP THROUGHT ROOF TO GRAVITY INTAKE ON ROOF W/ BACKDRAFT DAMPER. DO NOT CUT EXISTING ROOF JOIST OR EXISTING RAFTERS. OFFSET DUCT AS REQUIRED.
- 11) 12"X12" DUCT W/ 1" AL UP THROUGHT ROOF TO GRAVITY INTAKE ON ROOF W/ BACKDRAFT DAMPER. DO NOT CUT EXISTING ROOF JOIST OR EXISTING RAFTERS. OFFSET DUCT AS
- 20"X20" DUCT W/ 1" AL UP THROUGHT ROOF TO GRAVITY RELIEF ON ROOF W/ BACKDRAFT DAMPER. DO NOT CUT EXISTING ROOF JOIST OR EXISTING RAFTERS. OFFSET DUCT AS
- (13) FOR VRF OUTDOOR UNIT SEE DETAIL $\frac{C}{M-A3.1}$

KEYPLAN

- 14) FOR SPLIT SYSTEM OUTDOOR UNIT SEE DETAIL (M-A3.1)
- (15) OFFSET OUTSIDE AIR DUCTWORK TO AVOID FRAMING

SS ☑ FLS ☑ ACS □

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ARCHITECTS



Costa Engineers inc.



UNIVERSITY ELEMENTARY AT LA FIESTA HVAC REPLACEMENT

8511 LIMAN WAY ROHNERT PARK, CA 94928

COTATI-ROHNERT PARK UNIFIED SCHOOL DISTRICT

REVISIO	NS	
DSA	APP NO	01-120920

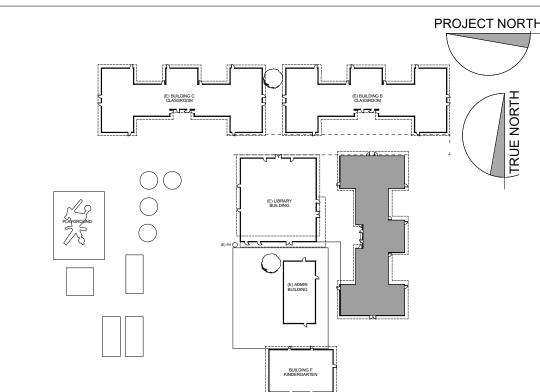
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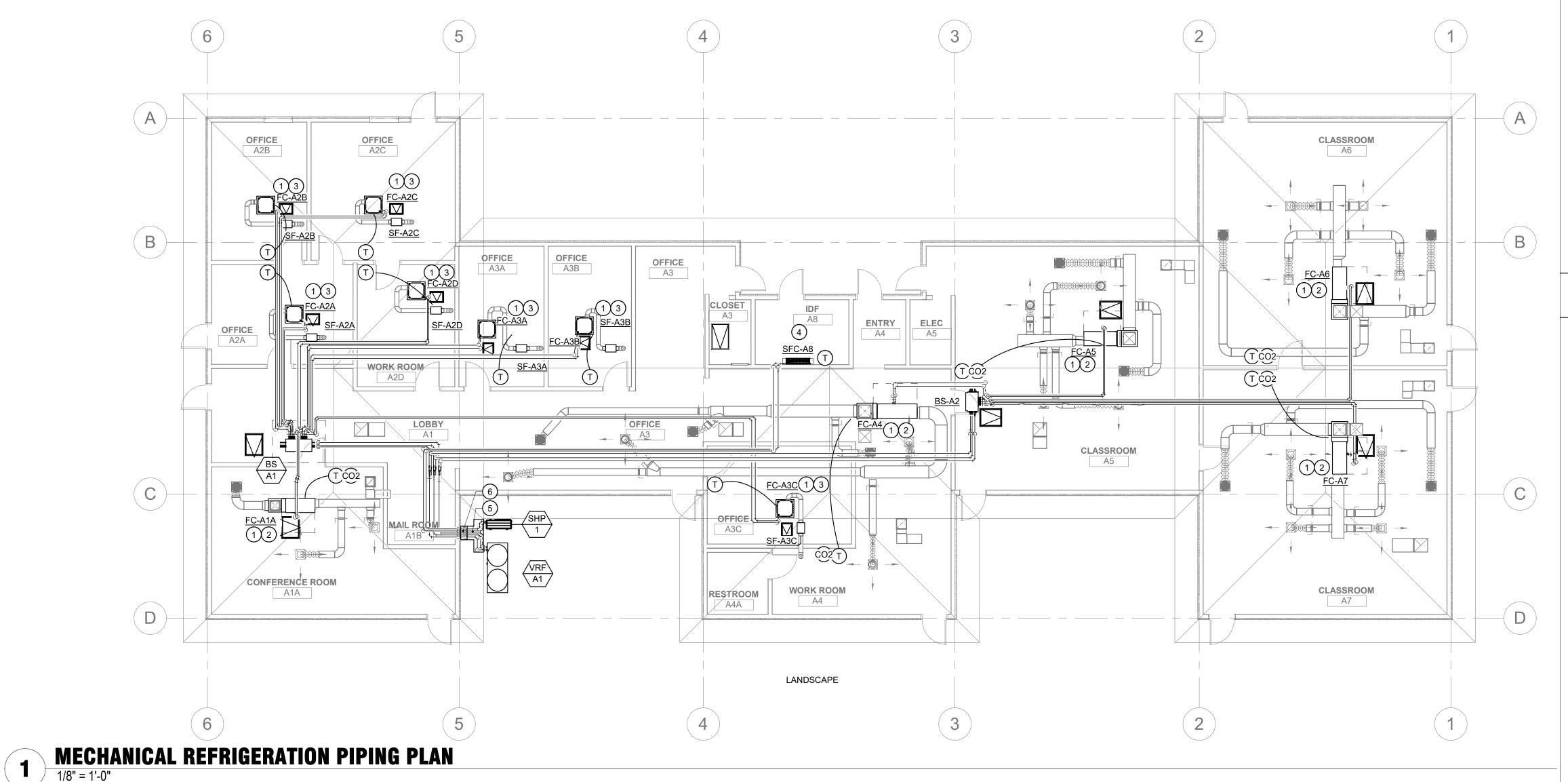
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JULY 19, 2023

BLDG A MECHANICAL FLOOR PLAN

M-A2.1





TRUE NORTH

GENERAL NOTES

- A. FOR MECHANICAL GENERAL NOTES, LEGENDS, AND SYMBOLS, REFER TO SHEET M-A1.1
- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE MECHANICAL WORK WITH OTHER TRADES. MAKE ANY OFFSETS AS REQUIRED TO AVOID CONFLICT WITH PIPING, LIGHT FIXTURES, SKYLIGHTS, ELECTRICAL CONDUITS, DATA WIRING ETC..
- C. CONTRACTOR SHALL COORDINATE ALL GRILLE LOCATIONS AND CEILING TYPES PRIOR TO ORDERING GRILLES, SEE ARCHITECTURAL CEILING PLANS AND ELECTRICAL LIGHTING PLANS.
- D. WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWING OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, MECHANICAL ENGINEER AND FIELD INSPECTOR OF THE GOVERNING AUTHORITY.

SHEET NOTES

- 1) FOR PIPE SIZES AND DIAGRAMS SEE SHEER M-A4.1
- 2 FOR CONTROLS FOR DUCTED FAN COIL WITH ECONOMIZER SEE SHEET M-A5.1
- 3 FOR CONTROLS FOR CEILING CASSETT WITH INTERLOCKED SUPPLY FAN SEE SHEET M-A5.2
- 4) FOR SPLIT SYSTEM PROVIDE WITH WIRE THERMOSTAT
- The state of the s
- 6 REFRIGERATION PIPING THRU WALL WITH COVER SEE DETAIL





QUATTROCCHI KWOK ARCHITECTS

636 Fifth Street, Santa Rosa, CA 95404
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55 Harrison Street, Suite 525,
Oakland, CA 94607
(707) 576-0829



COSTA ENGINEERS INC.

851 Napa Valley Corporate Way, Suite D,



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8511 LIMAN WAY ROHNERT PARK, CA 94928

COTATI-ROHNERT PARK UNIFIED SCHOOL DISTRICT

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DSA APP	NO	01-120920

TH	ARCH PROJECT NO:	2173.00
/	DRAWN BY:	BM/MC
	DRAWING SCALE:	1/8" = 1'-0
	PTN: 73882-47	FILE NO: 49-17
	CD	

JULY 19, 2023

BLDG A MECHANICAL

PIPING PLAN

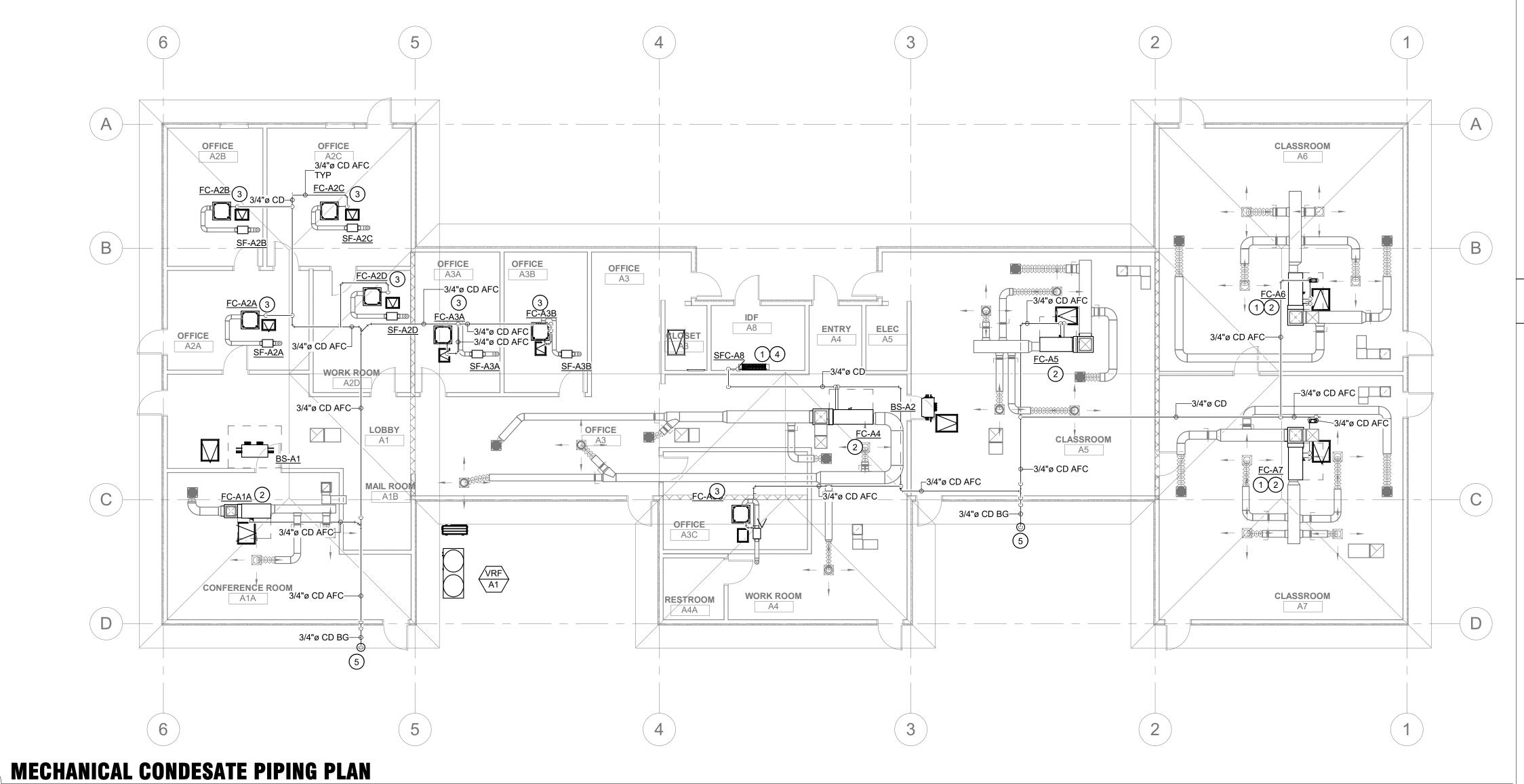
M-A2.2

KEYPLAN

HERMANY BUILDING

(E) PULLDING

(E) ADMINI



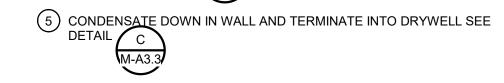
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SHEET NOTES

- 1) PROVIDE WITH CONDENSATE PUMP
- 2) INSTALL PRIMARY AND SECONDARY DRAIN WITH OVER FLOW SHUTOFF SWITH IN SECONDARY DRAIN SEE DETAIL A
- 3 FOR CEILING CASSETT CONDENSATE CONNECTION SEE DETAIL DM-A3.3





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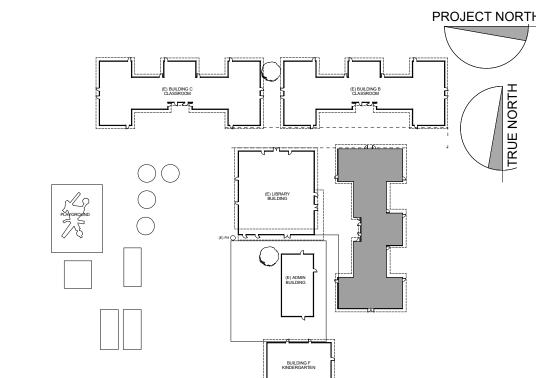
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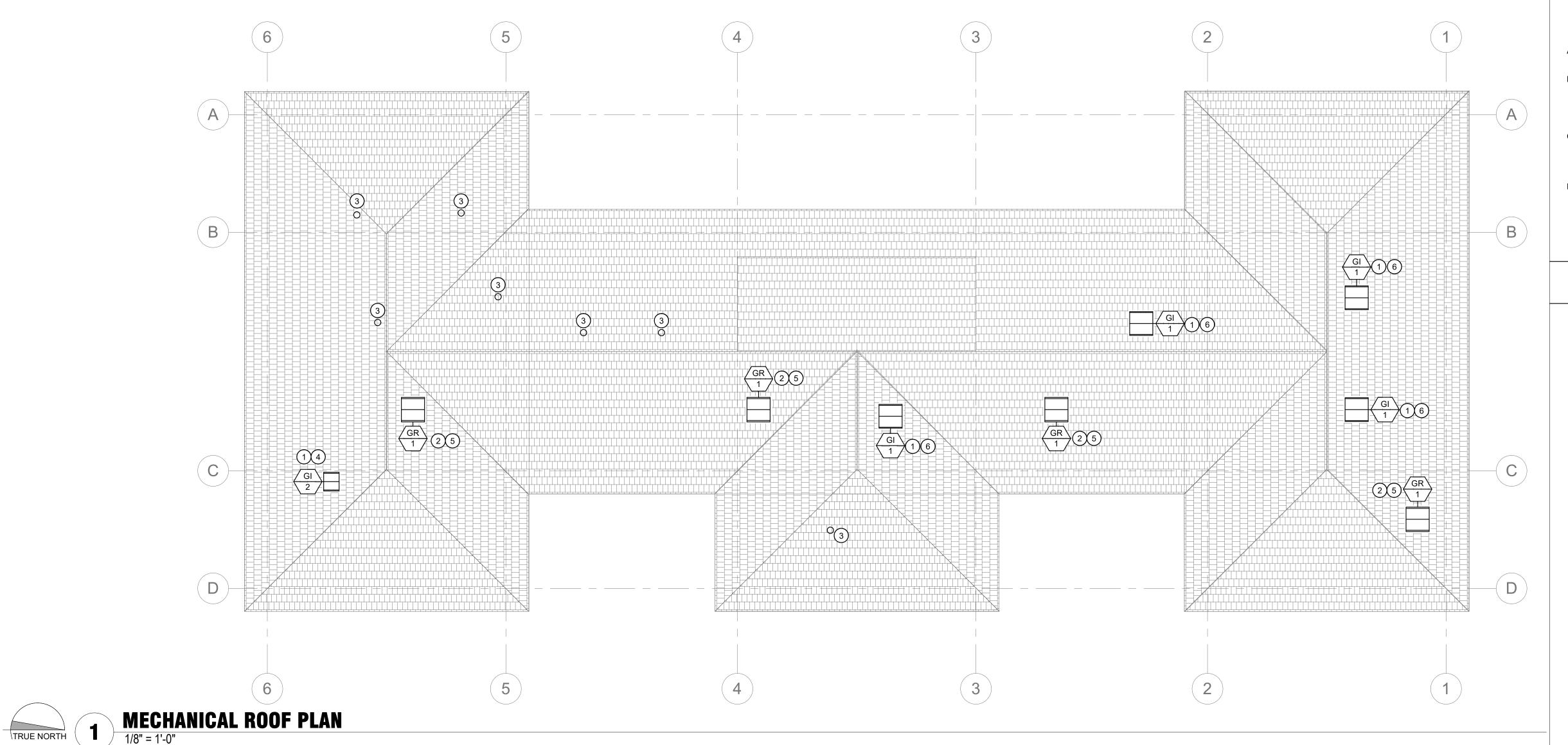
BLDG A

MECHANICAL CONDENSATE PIPING PLAN

M-A2.3

KEYPLAN





GENERAL NOTES

- A. FOR MECHANICAL GENERAL NOTES, LEGENDS, AND SYMBOLS, REFER TO SHEET M-A1.1
- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE MECHANICAL WORK WITH OTHER TRADES. MAKE ANY OFFSETS AS REQUIRED TO AVOID CONFLICT WITH PIPING, LIGHT FIXTURES, SKYLIGHTS, ELECTRICAL CONDUITS, DATA WIRING ETC..
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SHEET NOTES

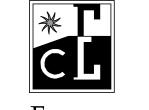
- GRAVITY INTAKE WITH SLOPED CURB & BACKDRAFT DAMPER SEE DETAIL B
- GRAVITY RELIEF WITH SLOPED CURB & BACKDRAFT DAMPER SEE DETAIL M-A3.1
- 3 6"Ø OA CAP FOR CEILING CASSETT
- 4 12"x12" w/ 1" AL DOWN THRU ROOF DO NOT CUT EXISTING ROOF JOIST OR EXISTING RAFTERS. OFFSET DUCT AS REQUIRED.
- 5) 20"x20" w/ 1" AL DOWN THRU ROOF DO NOT CUT EXISTING ROOF JOIST OR EXISTING RAFTERS. OFFSET DUCT AS REQUIRED.
- 6 18"x18" w/ 1" AL DOWN THRU ROOF DO NOT CUT EXISTING ROOF JOIST OR EXISTING RAFTERS. OFFSET DUCT AS REQUIRED.

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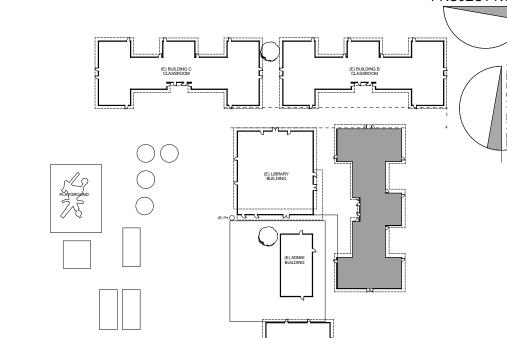
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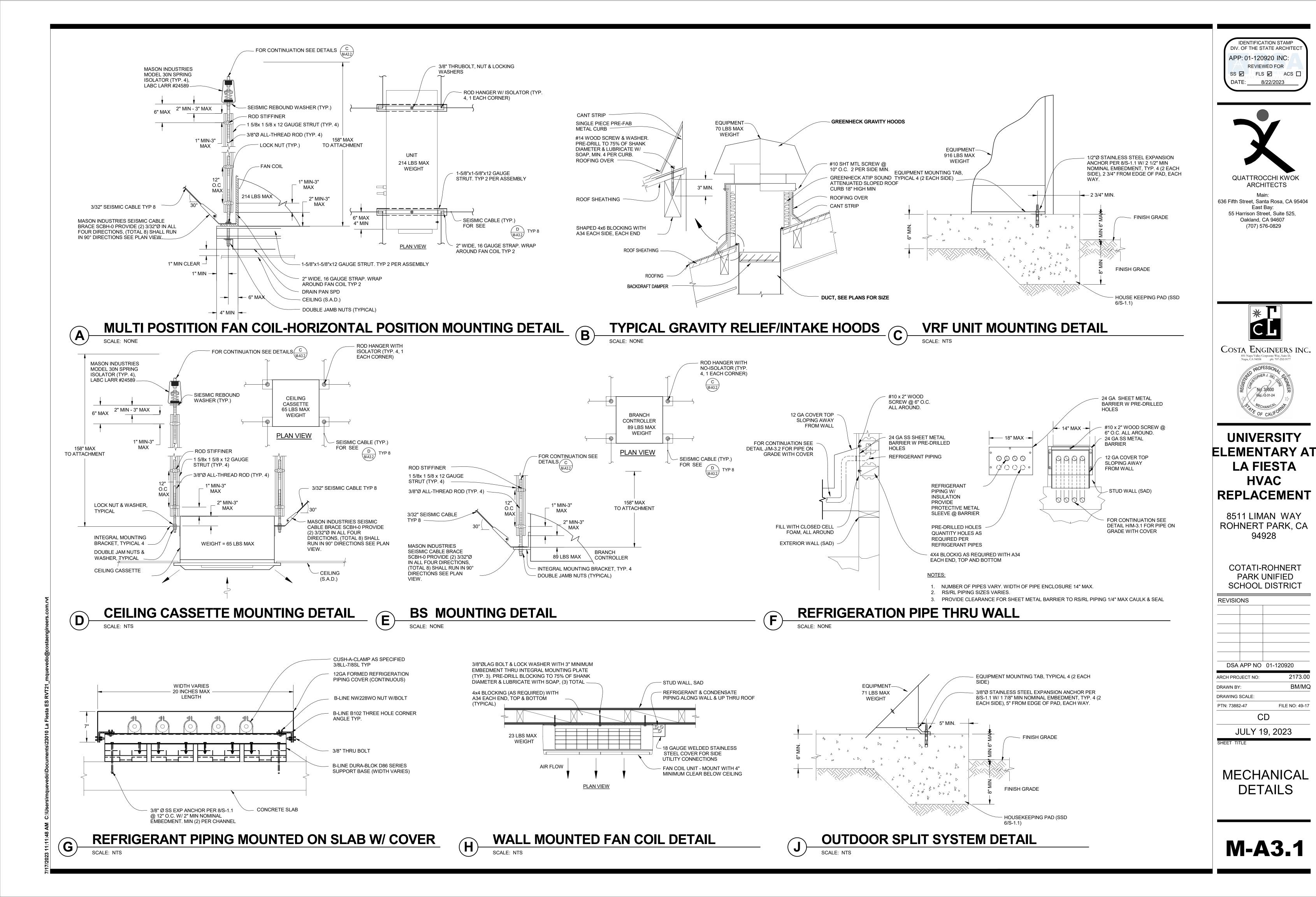
JULY 19, 2023

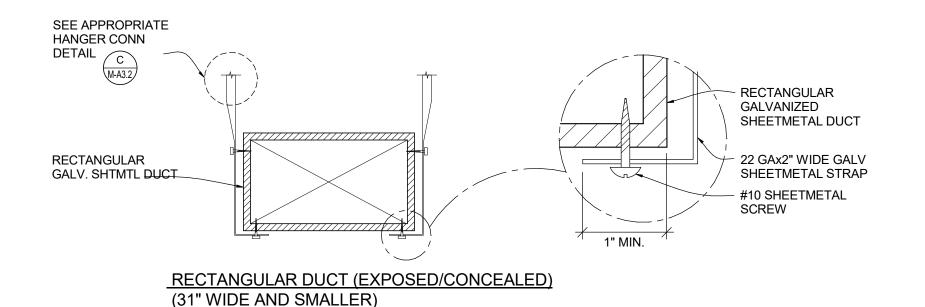
BLDG A MECHANICAL **ROOF PLAN**

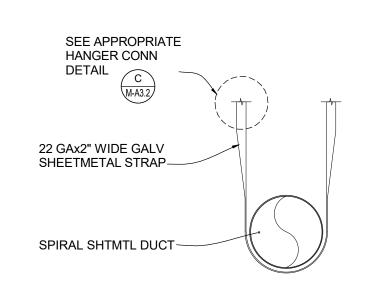
M-A2.4

KEYPLAN









ROUND DUCT (EXPOSED/CONCEALED)

DUCT SUPPORT NOTES:

- A. ALL STRAPS, RODS, TRAPEZE ANGLES AND TRAPEZE CHANNELS SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH THE LATEST SMACNA REQUIREMENTS.
- B. ALL BOLTS, NUTS, SCREWS AND OTHER FASTENING DEVICES SHALL BE LOAD-RATED AND SHALL MEET ALL CODE REQUIREMENTS AND SAFETY FACTORS
- C. WIRE, USED IN LIEU OF STRAPS AND RODS, IS NOT ALLOWED.
- MHERE APPLICABLE, INSTALL INSULATION AFTER INSTALLING DUCT HANGERS.
- LATERAL BRACING REQUIRED ON 32" WIDE AND LARGER RECTANGULAR DUCTS, AND ON 18" DIAMETER AND LARGER ROUND DUCTS. SEE OPM-0043-13
- SUPPORTS SHALL BE PLACED AT 8'-0" ON CENTER (MAX) AND AT ALL CHANGES IN DIRECTION.

(16"Ø AND SMALLER)

TYPICAL DUCT HANGER DETAILS

4x6 BLOCKING(SHAPED 4x6 BLOCKING(SHAPED TO ROOF SLOPE AS OCCURS WITH SIMPSON LUS46, EA END (TYPICAL) 4x6 BLOCKING - 2"x2"x3/8"x2" LONG – 1/4" X 2 1/2" LAG ANGLE IRON BRACKET (E) JOIST OR GLUELAM ROOFING (SAD) (2) 3/8"Ø MACHINE BOLT, SCREW (TYP. 2) - 3/8"Ø MACHINE BOLT, LOCK WASHER & NUT LOCK WASHER & NUT – DOUBLE JAM NUTS & WASHER (TYPICAL) - LOCK NUT & WASHER BOLT SHALL BE BORED 1" MIN 4" MAX (TYPICAL) MAX^- ─ 3" MIN - 6" MAX 1-1/2" MAX **1** 2" MIN - 3" MAX 2" MIN - 3" MAX **-** 6" MIN — / **-**2 7/8" MIN √ 1" MIN-3" _ 12" MAX TO MAX TOP OF EQUIPMENT SUPPORT \coprod angle3/8" ALL-THREAD ROD 22 GA, 2" WIDE GALV EXISTING 2x SHEETMETAL STRAP /MIN (SIZE PER MTG/ WITHOUT ROD HANGER DETAILS)_ 1" MIN-3" MAX - SEE APPROPRIATE JOIST (SSD) SECTION AA HANGER DETAIL (A,D,E) OR GLUE LAM - 22 GA, 2" WIDE GALV SHEETMETAL STRAP SEE APPROPRIATE HANGER DETAIL A 60 LB MAX LOAD PER HANGER

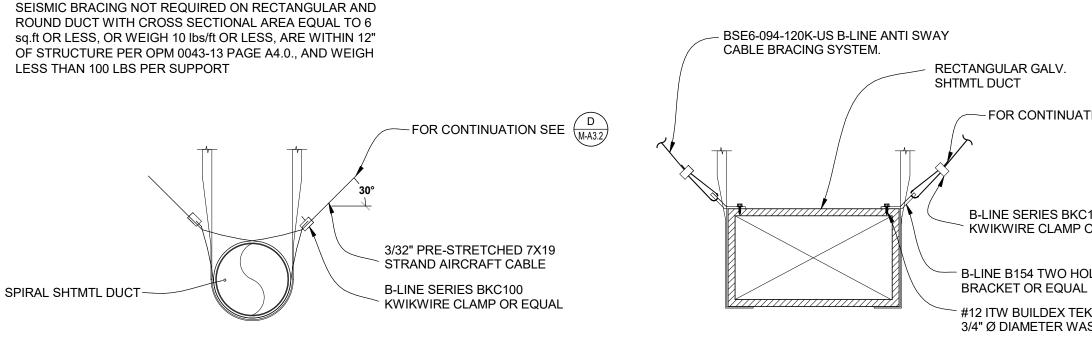
TO ROOF SLOPE AS OCCURS WITH SIMPSON LUS46, EA END (TYPICAL) (E) JOIST OR GLUELAM 3/8"Ø MACHINE BOLT, LOCK WASHER & NUT. HOLE FOR 1-1/2" MIN 4" MAX 1/16" LARGER THAN THE NOMINAL BOLT DIAMETER WITH 2 X 2X 1/4 PLATE BRACE PARALLEL TO JOIST 3/8"Ø MACHINE BOLT, BRACE PERPENDICULAR TO JOIST HOLE FOR BOLT SHALL BE BORED 1/16" LARGER SEE APPROPRIATE HANGER DETAIL-THAN THE NOMINAL BOLT A,D,E B M-A3.1 M-A3.2 DIAMETER WITH 2 X 2X 1/4 MASON INDUSTRIES SEISMIC CABLE BRACE PLATE WASHER BRACKET SSB-0 WITH 3/32"Ø

TYPICAL DUCT ANTI-SWAY DETAILS

HANGER CONNECTION @ 2X JOIST OR GLULAM

SEISMIC BRACE CONNECTION @ 2X JOIST OR GLULAM

GENERAL NOTE: ALL DUCTS GREATER THAN 12" FROM STRUCTURE SHALL HAVE ANTI SWAY CABLE BRACING IF ANY PART OF DUCT RUN IS GREATER THAN 12" FROM STRUCTURE AT EACH SUPPORT.



ROUND DUCT (EXPOSED/CONCEALED) W/ ANTISWAY SYSTEM (16" ROUND AND SMALLER, 16'-0" O.C. MAX SPACING)

FOR CONTINUATION SEE $\binom{D}{M-A32}$ **B-LINE SERIES BKC100** KWIKWIRE CLAMP OR EQUAL B-LINE B154 TWO HOLE OPEN ANGLE #12 ITW BUILDEX TEKS SCREW W/ 3/4" Ø DIAMETER WASHER RECTANGULAR DUCT W/ ANTISWAY SYSTEM

(SMALLER THAN 6sq FT 16'-0" O.C. MAX SPACING)

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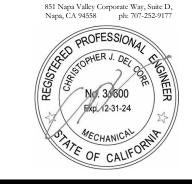
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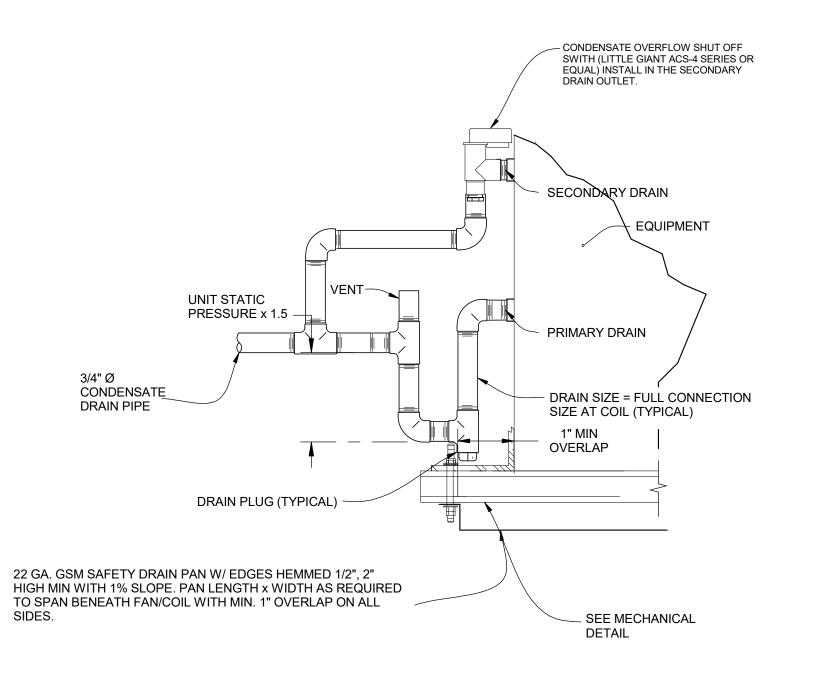
FILE NO: 49-17 PTN: 73882-47 CD

ARCH PROJECT NO:

JULY 19, 2023

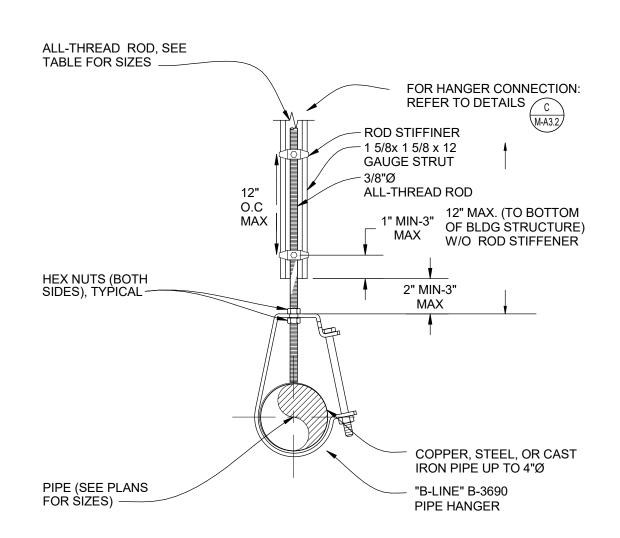
MECHANICAL **DETAILS**

M-A3.2

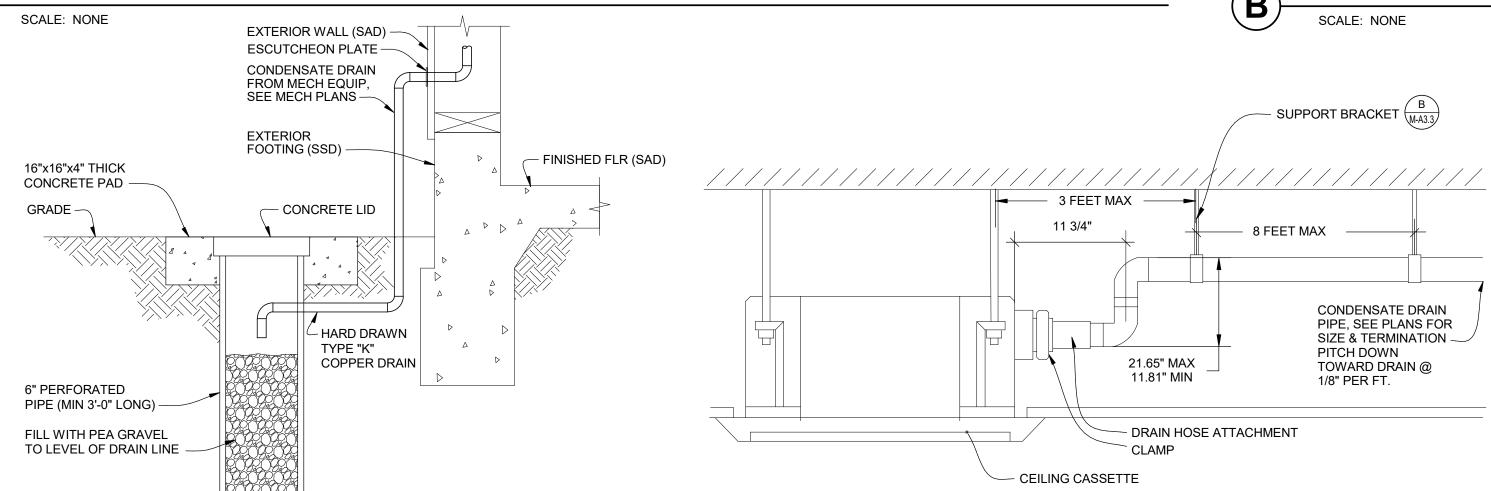


SINGLE PIPE GENERAL NOTES:

- 1. RUN PIPING AS CLOSE AS POSSIBLE TO STRUCTURE. 2. SUPPORT PIPING AT A MAXIMUM OF 8'-0" INTERVALS AND AT EVERY CHANGE IN DIRECTION.
- 3. SEE PLANS FOR PIPE SIZES.
- 4 MASON ROD STIFFENER @ ALL-THREAD WHERE DIAGONAL BRACE OCCURS. SEE OPM-0043-13 For INFORMATION & ITEMS NOT SHOWN.



PRIMARY AND SECONDARY DRAIN W/ OVER FLOW SWITCH DETAIL SINGLE PIPE SUPPORT DETAIL (\mathbf{B})



COND TO DRYWELL DETAIL

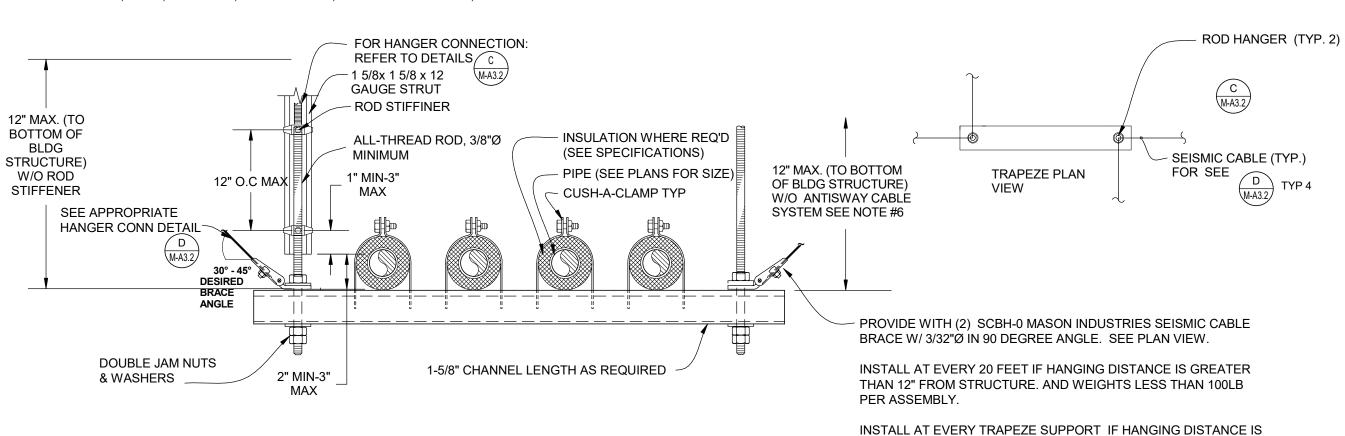
TYPICAL CONDENSATE FOR FC CASSETTE SCALE: NONE

GREATER THAT 12" FROM STRUCTURE AND WEIGHTS MORE

THAN 100 LB PER ASSEMBLY.

TRAPEZE GENERAL NOTES:

- 1. RUN PIPING TRAPEZE AS CLOSE AS POSSIBLE TO STRUCTURE.
- 2. SUPPORT TRAPEZE AT A MAXIMUM OF 8'-0" INTERVALS. 3. SEE PLANS & PIPING DIAGRAMS FOR PIPE SIZES.
- 4. CHANNEL DEFLECTION SHALL NOT EXCEED 1/360 OF THE SPAN BETWEEN RODS. DOUBLE-UP CHANNELS AS REQUIRED.
- MASON ROD STIFFENER @ ALL-THREAD WHERE DIAGONAL BRACE OCCURS. SEE OPM-0043-13 For INFORMATION & ITEMS NOT SHOWN.
- 6. NO BRACING IS REQUIRED ON TRAPEZE ASSEMBLY WHEN ASSEMBLIES ARE SUPPORTED BY 3/8" Ø ROD OR 1/2" Ø ROD SUPPORTED LESS THAN 12" FROM BOTTOM OF STRUCTURE AND THE TOTAL WEIGHT IS LESS THAN 100 LBS PER 2022 CBC 1617A.1.26, section 13.6.7.3 EXCEPTION 1. AND NO SINGLE PIPE EXCEEDS 2" DIAMETER.
- 7. PIPING SUPPORTED MORE THAN 12" FROM BOTTOM OF ROOF STRUCTURE SHALL HAVE ANTI SWAY CABLE BRACING AT EACH SUPPORT
- TO RESIST THE FORCES PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, AND 13.6.8, AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26 RESPECTIVELY.

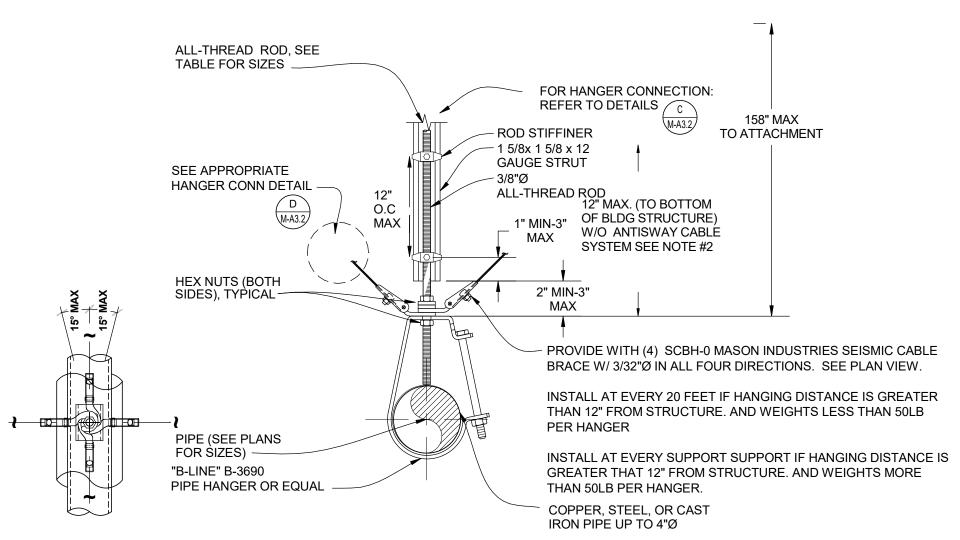


SINGLE PIPE BRACING GENERAL NOTES:

1 MASON ROD STIFFENER @ ALL-THREAD WHERE DIAGONAL BRACE OCCURS. SEE OPM-0043-13 For INFORMATION & ITEMS NOT SHOWN. 2 NO BRACING IS REQUIRED ON SINGLE FUEL PIPES WITH LESS THAN 1" I.D. AND ALL OTHER PIPES LESS THAN 2-1/2" IN DIAMETER, AND WHEN SUPPORTED LESS THAN 12" BY A 3/8" Ø ROD OR 1/2" Ø ROD FROM BOTTOM OF ROOF STRUCTURE AND THE

TOTAL WEIGHT SUPPORTED IS 50 LBS OR LESS PER 2022 CBC 1617A.1.24 EXCEPTION 1B.

3. PIPING SUPPORTED MORE THAN 12" FROM BOTTOM OF ROOF STRUCTURE SHALL HAVE ANTI SWAY CABLE BRACING AT EACH SUPPORT TO RESIST THE FORCES PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, AND 13.6.8, AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26 RESPECTIVELY.





SINGLE PIPE BRACING DETAIL

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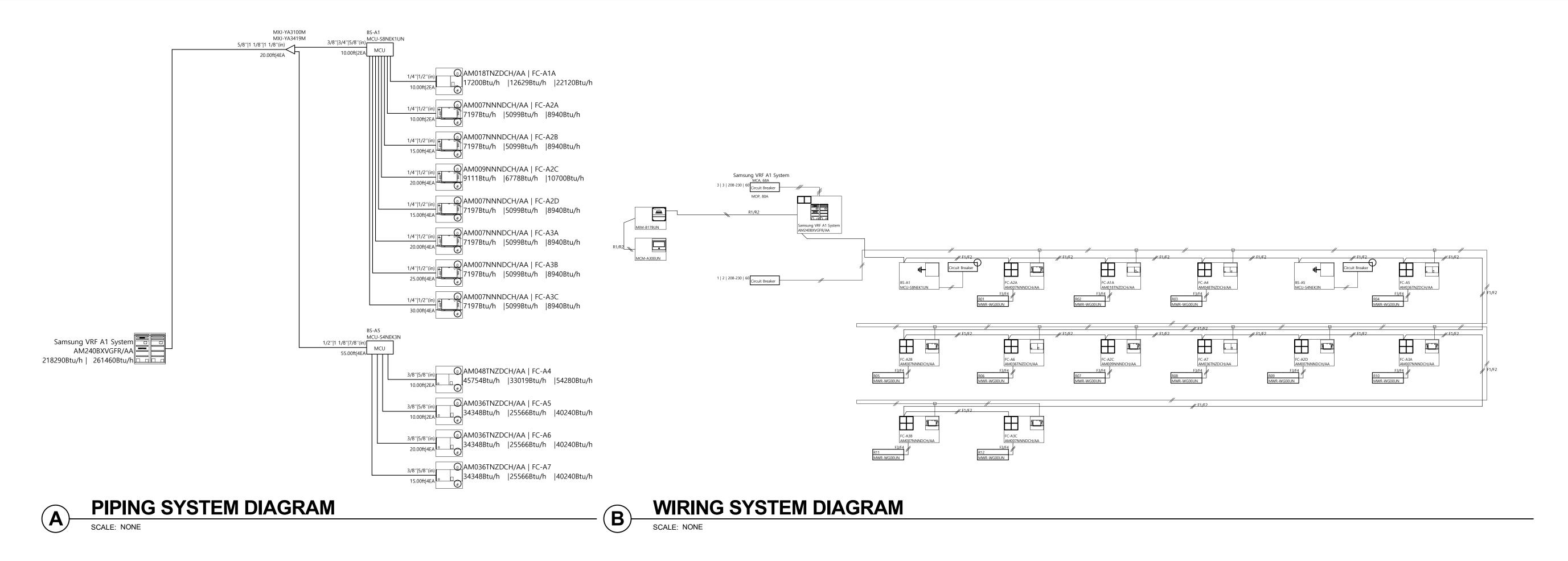
JULY 19, 2023

MECHANICAL & PLUMBING **DETAILS**

M-A3.3



TRAPEZE SUPPORTS DETAIL



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SS FLS ACS DATE: 8/22/2023

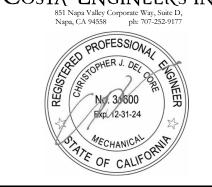


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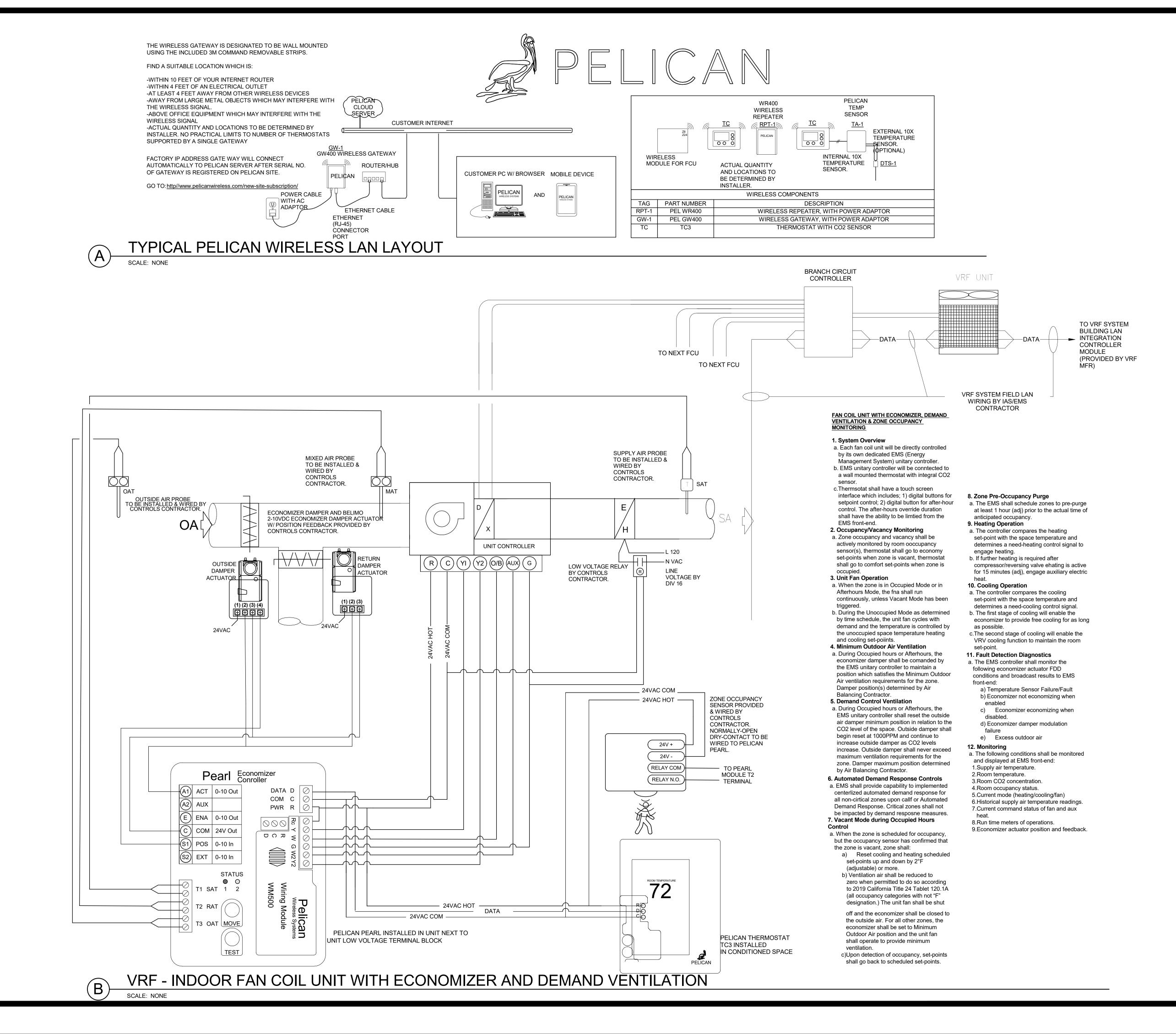
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PIPING AND WIRING DIAGRAMS

M-A4.1



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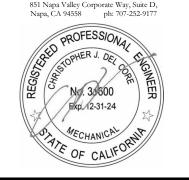
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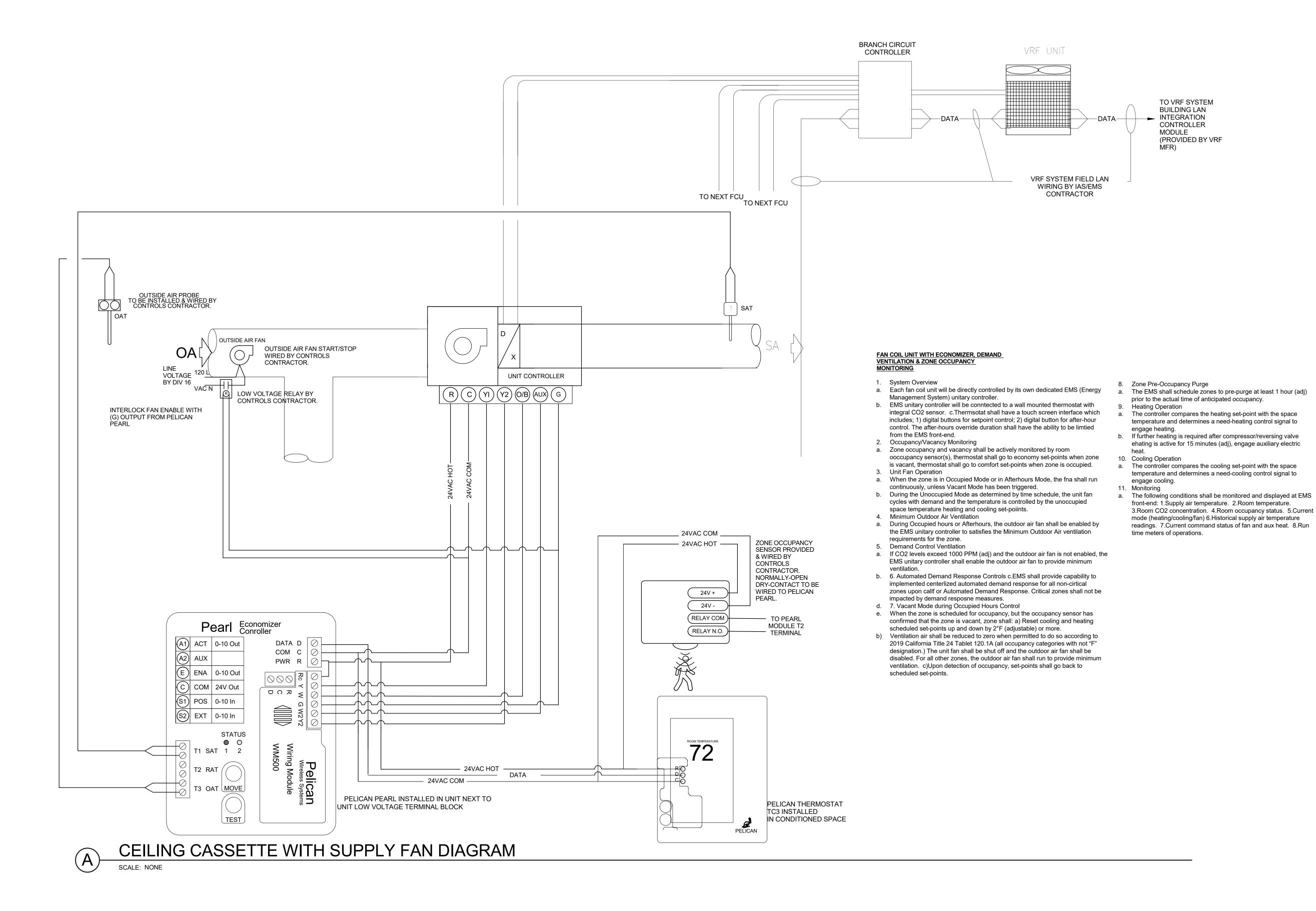
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MECHANICAL CONTROLS

M-A5.1



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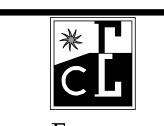
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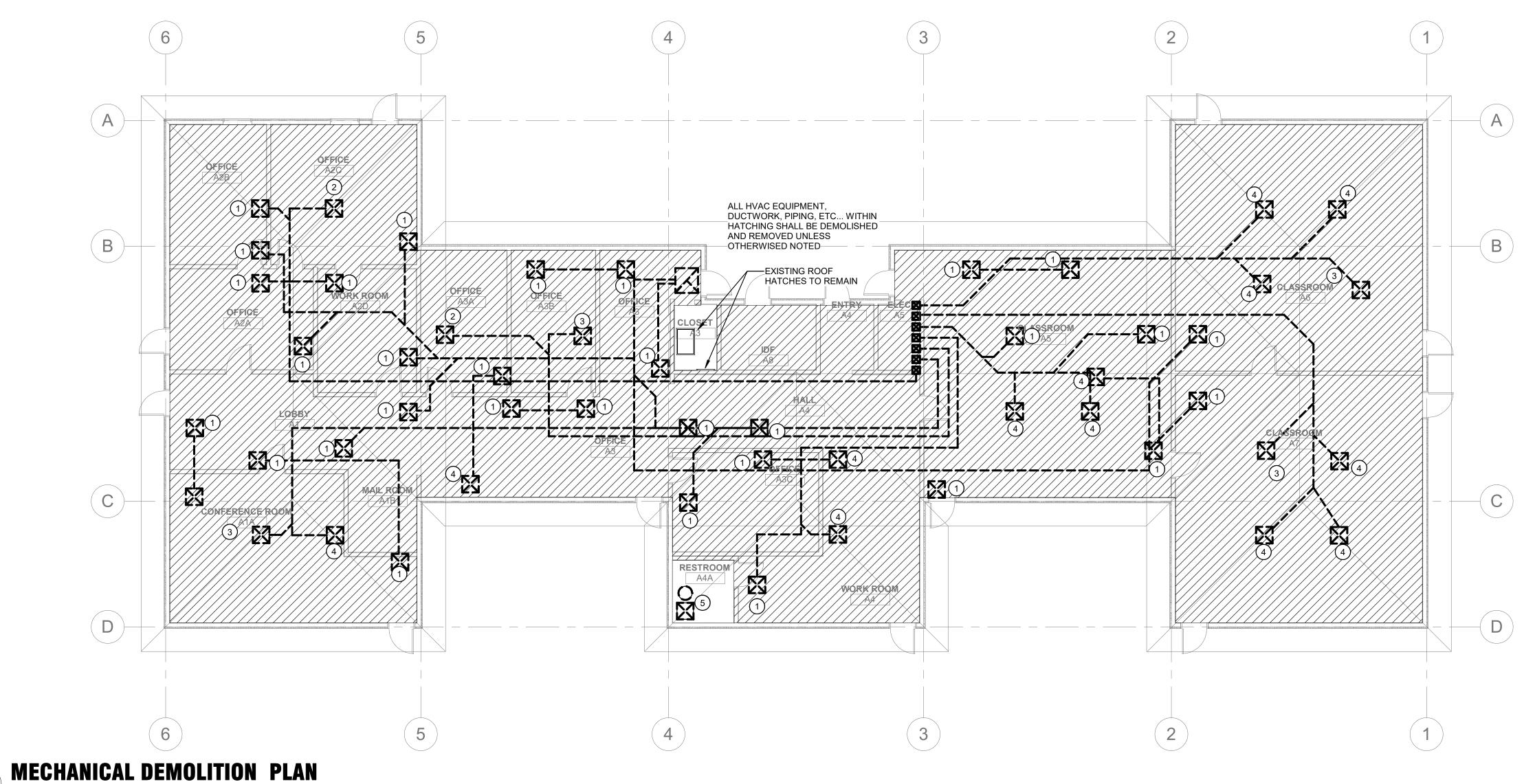
JULY 19, 2023

JULY 19, 20,

CONTROLS

MECHANICAL

M-A5.2



TRUE NORTH

MECH DEMOLITION NOTES

- A. FOR MECHANICAL GENERAL NOTES, LEGENDS, AND SYMBOLS, REFER TO SHEET M-A1.1
- B. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE MECHANICAL WORK WITH OTHER
- C. THIS CONTRACTOR SHALL RETAIN SPECIFIC EQUIPMENT AS DIRECTED BY OWNER AND DELIVER TO OWNER SPECIFIED
- D. ALL EQUIPMENT, MECHANICAL EQUIPMENT, PIPING, VALVING, CONTROLS, ETC. RENDERED USELESS BY THIS WORK SHALL BE DEMOLISHED AND REMOVED FROM THE SITE
- E. LOCATION OF EXISTING MECHANICAL EQUIPMENT,
 DUCTWORK, AIR OUTLETS, PIPING, CONTROLS, VALVING,
 ETC. HAS BEEN BASED ON THE BEST AVAILABLE
 INFORMATION OBTAINABLE AT THE SITE AND THROUGH
 RECORD DRAWINGS. VERIFY EXACT LOCATIONS, SIZES, AND
 EXTENT OF EXISTING SYSTEMS PRIOR TO START OF
 DEMOLITION WORK
- PATCH ALL WALLS, CEILINGS, ROOF AND OTHER SURFACES TO MATCH EXISTING CONDITIONS SAD.

SHEET NOTES

- 1) INFILL EXISTING HOLE FROM EXISTING REMOVED GRILLE. MATCH EXISTING CONDITIONS SAD
- 2 PREPARE EXISTING HOLE FROM EXISTING REMOVED GRILLE FOR NEW CEILING CASSETTE. INCREASE SIZE AND FRAME AS REQUIRED. FIELD VERIFY FOR EXACT LOCATION.
- PREPARE EXISTING HOLE FROM EXISTING REMOVED GRILLE FOR NEW ACCESS HATCH. INCREASE SIZE AND FRAME AS REQUIRED. FIELD VERIFY FOR EXACT LOCATION.
- PREPARE EXISTING HOLE FROM EXISTING REMOVED GRILLE FOR NEW GRILLE. INCREASE SIZE AND FRAME AS REQUIRED. FIELD VERIFY FOR EXACT LOCATION.
- 5 EXISTING EXHAUST FAN TO REMAIN

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DATE: 8/22/2023



QUATTROCCHI KWOK ARCHITECTS

Main: 636 Fifth Street, Santa Rosa, CA 95404 East Bay: 55 Harrison Street, Suite 525, Oakland, CA 94607 (707) 576-0829



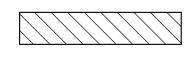
COSTA ENGINEERS INC.



UNIVERSITY ELEMENTARY AT LA FIESTA HVAC REPLACEMENT

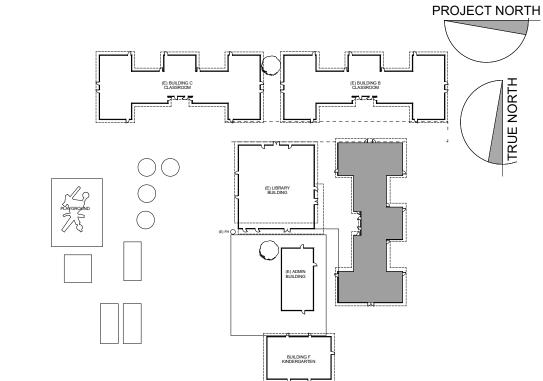
8511 LIMAN WAY ROHNERT PARK, CA 94928

DEMO LEGEND



DEMOLISH AND REMOVE EXISTING
GRILLES, DUCTWORK, MECHANICAL
EQUIPMENT, SUPPORTS, PIPING AND ALL
ASSOCIATED APPURTENANCES. WITHIN
THE HATCH UNLESS OTHERWISED NOTED.

KEYPLAN



COTATI-ROHNERT PARK UNIFIED SCHOOL DISTRICT

REVISIO	NS	
DSA	APP NO	01-120920

ARCH PROJECT NO: 2173.00

DRAWN BY: BM/MQ

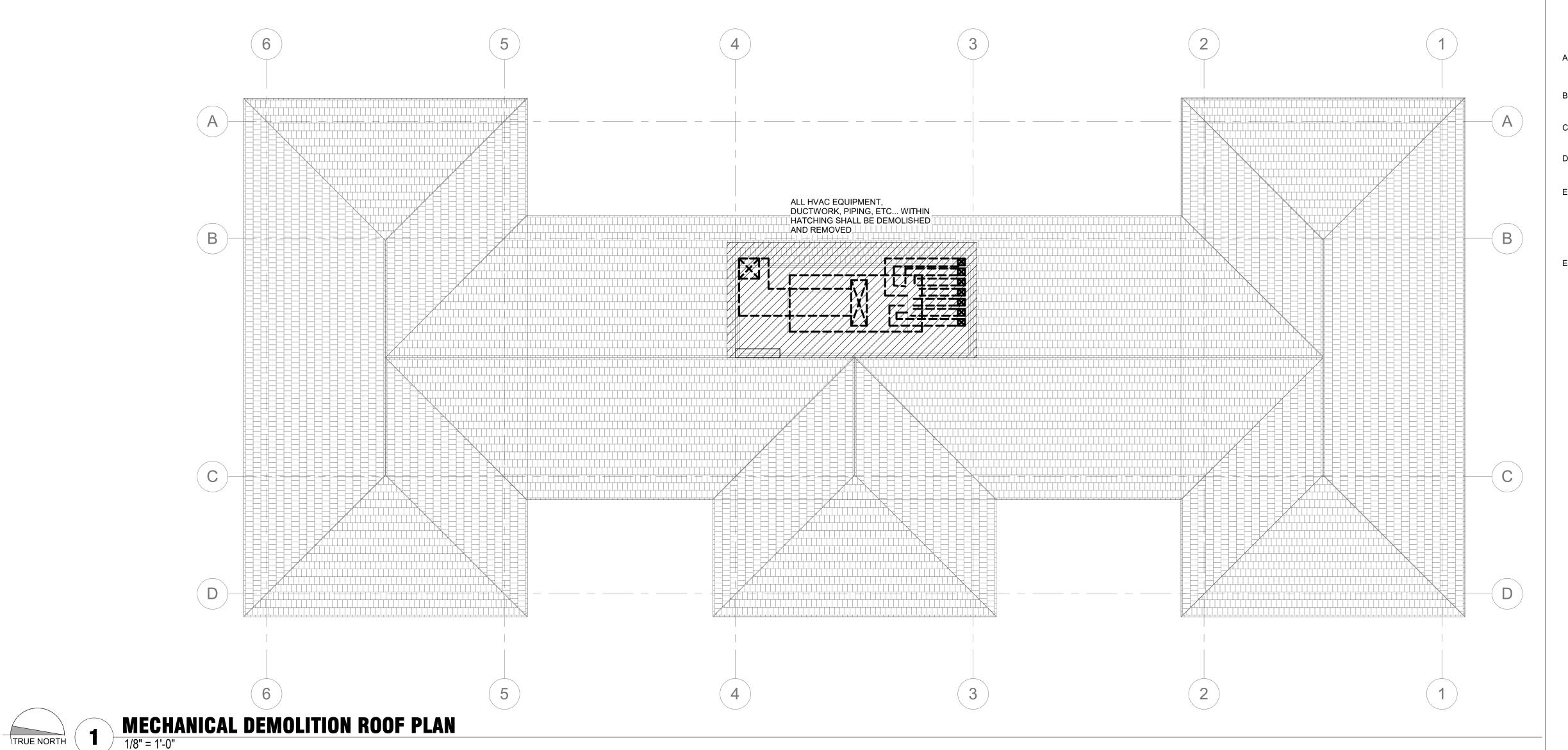
DRAWING SCALE: 1/8" = 1'-0"

PTN: 73882-47 FILE NO: 49-17

JULY 19, 2023

BLDG A MECHANICAL DEMOLITION PLAN

MD-A2.1



MECH DEMOLITION NOTES

- A. FOR MECHANICAL GENERAL NOTES, LEGENDS, AND SYMBOLS, REFER TO SHEET M-A1.1
- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE MECHANICAL WORK WITH OTHER
- C. THIS CONTRACTOR SHALL RETAIN SPECIFIC EQUIPMENT AS DIRECTED BY OWNER AND DELIVER TO OWNER SPECIFIED
- D. ALL EQUIPMENT, MECHANICAL EQUIPMENT, PIPING, VALVING, CONTROLS, ETC. RENDERED USELESS BY THIS WORK SHALL BE DEMOLISHED AND REMOVED FROM THE SITE
- E. LOCATION OF EXISTING MECHANICAL EQUIPMENT,
 DUCTWORK, AIR OUTLETS, PIPING, CONTROLS, VALVING,
 ETC. HAS BEEN BASED ON THE BEST AVAILABLE
 INFORMATION OBTAINABLE AT THE SITE AND THROUGH
 RECORD DRAWINGS. VERIFY EXACT LOCATIONS, SIZES, AND
 EXTENT OF EXISTING SYSTEMS PRIOR TO START OF
 DEMOLITION WORK
- PATCH ALL WALLS, CEILINGS, ROOF AND OTHER SURFACES TO MATCH EXISTING CONDITIONS SAD.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 01-120920 INC:

REVIEWED FOR
SS FLS ACS D

DATE: 8/22/2023



QUATTROCCHI KWOK ARCHITECTS

636 Fifth Street, Santa Rosa, CA 95404 East Bay: 55 Harrison Street, Suite 525, Oakland, CA 94607 (707) 576-0829



COSTA ENGINEERS INC.

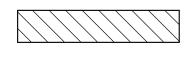
851 Napa Valley Corporate W07, 501: D,
Name CA 04558 pt. 707, 251: D,
Name CA 04558



UNIVERSITY ELEMENTARY AT LA FIESTA HVAC REPLACEMENT

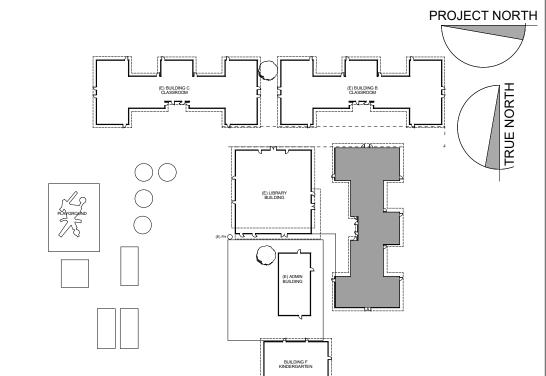
8511 LIMAN WAY ROHNERT PARK, CA 94928

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KEYPLAN



COTATI-ROHNERT
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JULY 19, 2023

BLDG A MECHANICAL DEMOLITION ROOF PLAN

MD-A2.2

ELECTRICAL EQUIPMENT ANCHORAGE

ELECTRICAL ANCHORAGE NOTES:

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

- ALL PERMANENT EOUIPMENT AND COMPONENTS TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g.
- HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE. TEMPORARY, MOVABLE OR MOBILE EOUIPMENT 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
- THE FOLLOWING ELECTRICAL COMPONENTS SHALL BE BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.
 - A. COMPONENT WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY
 - SUPPORT THE COMPONENT. B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM WALL

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

ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:

MANNER APPROVED BY DSA

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 A PREAPPROVED INSTALLATION GUIDE (eg., 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.

ELECTRICAL DISTRIBUTION SYSTEMS ARE: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT

GENERAL DEMOLITION NOTES

- THE CONTRACTOR SHALL VERIFY IN THE FIELD ALL LINES, LEVELS, DIMENSIONS AND XISTING CONDITIONS. THE INFORMATION ON THE DRAWINGS REGARDING EXISTING ELECTRICAL EQUIPMENT AND BRANCH CIRCUITS IS THE RESULT OF FIELD SURVEY AND IS ACCURATE TO THE BEST OF OUR KNOWLEDGE. IT IS INTENDED, HOWEVER, AS A GUIDE FOR USE IN VERIFICATION ONLY
- ANY EXISTING ELECTRICAL EQUIPMENT IN THE AREA OF NEW CONSTRUCTION NOT SHOWN ON THE EXISTING PLANS SHALL BE DOCUMENTED AND SUBMITTED TO THE ENGINEER FOR DETERMINATION OF ACTION REQUIRED
- WHEREVER THE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT IS CALLED FOR AND ALL EOUIPMENT ON A PARTICULAR BRANCH CIRCUIT IS TO BE REMOVED, ALL CONDUIT AND WIRE BACK TO THE PANEL SHALL BE ENTIRELY REMOVED AND THE CIRCUIT IN PANEL SHALL BE MARKED "SPARE". THIS APPLIES TO SIGNAL AND COMMUNICATIONS SYSTEMS EQUIPMENT, CONDUIT, AND WIRE AS WELL.
- WHEREVER THE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT IS CALLED FOR AND ALL EQUIPMENT ON A PARTICULAR BRANCH CIRCUIT IS NOT TO BE REMOVED, THE CIRCUIT SHALL BE MAINTAINED CONTINUOUS TO THE EXISTING EQUIPMENT IN USE WITH MINIMUM INTERRUPTIONS OF POWER. THIS APPLIES TO SIGNAL AND COMMUNICATIONS SYSTEMS EOUIPMENT, CONDUIT, AND WIRE AS WELL.
- WHENEVER THE REMOVAL OF EXISTING CONSTRUCTION REVEALS ELECTRICAL WORK THAT IS TO REMAIN, BUT IS IN CONFLICT WITH NEW CONSTRUCTION, RELOCATE THE EXISTING FLECTRICAL WORK AS NECESSARY TO AVOID ANY CONFLICT. RELOCATION WORK SHALL BE DONE TO MINIMIZE ANY INTERRUPTIONS OF POWER
- . CARE SHALL BE TAKEN IN ORDER TO IDENTIFY AND PROTECT ALL EXISTING ELECTRICAL WORK THAT IS TO REMAIN.
- ENSURE RECONNECTION OF EXISTING DEVICES WHOSE CIRCUITS HAVE BEEN INTERRUPTED BY DEMOLITION BY PROVIDING NEW CONNECTION TO ANOTHER EXISTING TO REMAIN DEVICE
- . ALL EXISTING ELECTRICAL EQUIPMENT SHOWN ON THE PLANS FOR NEW WORK ARE THOSE WHICH ARE TO BE REUSED DURING SOME PHASE OF THE NEW CONSTRUCTION OR REQUIRE
- . WHENEVER THE REMOVAL OF EXISTING ELECTRICAL PANELBOARDS ARE CALLED FOR AND ALL XISTING BRANCH CIRCUITS ARE NOT TO BE REMOVED, THE EXISTING BRANCH CIRCUITS SHALL BE CONNECTED TO OTHER EXISTING ELECTRICAL EQUIPMENT OR PANELS STILL IN USE WITH MINIMUM INTERRUPTIONS OF POWER. ALSO, IF REOUIRED, THESE SAME BRANCH IRCUITS SHALL BE RECONNECTED TO RELOCATED EXISTING OR NEW PANELBOARDS AS PART OF THE NEW CONSTRUCTION. THIS APPLIES TO SIGNAL AND COMMUNICATIONS SYSTEMS EQUIPMENT, CONDUIT AND WIRE AS WELL.
- 10. THE ELECTRICAL CONTRACTOR SHALL REVISE EXISTING PANEL SCHEDULES TO CORRESPOND TO ACTUAL CONDITIONS AFTER ALL DEMOLITION AND NEW WORK IS COMPLETED.
- 11. REMOVE ALL ABANDONED CONDUIT AND WIRE ABOVE CEILINGS.
- 12. WHEN ELECTRICAL EQUIPMENT OR DEVICE IS REMOVED FROM AN EXISTING WALL OR CEILING WHICH IS TO REMAIN. PATCH ABANDONED OPENINGS TO MATCH EXISTING FINISH
- 13. IN GENERAL, THE DEMOLITION PLANS SHOW ALL EXISTING FOUIPMENT THAT IS TO BE REMOVED UNLESS NOTED OTHERWISE. HOWEVER, ELECTRICAL EQUIPMENT, WHETHER SHOWN ON THIS DRAWING OR NOT, WHERE LOCATED IN THE AREA SCHEDULED TO BE DEMOLISHED, SHALL BE REMOVED COMPLETELY (INCLUDING CONDUIT AND WIRES BACK TO THE LAST REMAINING FIXTURE, OUTLET, DEVICE, ETC.) UNLESS OTHERWISE NOTED. COORDINATE DEMOLITION WORK WITH ARCHITECT AND GENERAL CONTRACTOR.
- 14. EXISTING CONDUIT FEEDS UP THROUGH FLOOR SHALL BE CUT OFF AND PLUGGED FLUSH WITH FLOOR WHERE EXISTING WALLS, ETC., ARE REMOVED. REMOVE CONDUCTORS FROM THE POINT BACK TO LAST OUTLET REMAINING IN SERVICE.
- 15. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO MAINTAIN CONTINUITY OF ALL ELECTRICAL SYSTEMS, EQUIPMENT, ETC. REMAINING IN OPERATION WHICH IS BEING FED BY AN ABANDONED OUTLET. MAINTAINING CONTINUITY SHALL CONSIST OF REROUTING OF CONDUIT, WIRE, ETC. AS REQUIRED.
- 16. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF EXISTING CIRCUITS AND ADJUST CIRCUIT NUMBERS ACCORDING TO EXISTING CONDITIONS IF
- 17. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO REMOVAL OF EXISTING ELECTRICAL EQUIPMENT AND TURN OVER REMOVED EQUIPMENT THAT THE OWNER REQUESTS, IN AS-FOUND CONDITION. EQUIPMENT THAT IS TO BE TURNED OVER SHALL BE BOXED AND TAGGED TO IDENTIFY THE SPECIFIC FOUIPMENT. FOUIPMENT TO BE EMPORARILY REMOVED DUE TO THE CONSTRUCTION SHALL BE CLEANED AND RE-INSTALLED IN ITS ORIGINAL CONDITION OR AS REQUIRED.
- 18. WHERE EXISTING WALLS HAVE BEEN REMOVED, AND THERE ARE EXISTING CONDUIT FEEDS WHICH HAVE BEEN CUT OFF AND CAPPED FLUSH WITH THE FLOOR, IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND DIMENSION ALL SUCH CONDUITS ON THE "AS-BUILT"
- 19. IF ANY EQUIPMENT THAT IS SCHEDULED TO REMAIN IN OPERATION IS DAMAGED BY THE CONTRACTOR, IT SHALL BE REPLACED TO ITS ORIGINAL CONDITION SATISFACTORY TO THE OWNER AT CONTRACTOR'S EXPENSE.

SYMBOLS LIST

- FIRE ALARM SYSTEM MAGNETIC DOOR HOLD-OPEN WALL-MOUNTED BEAM SMOKE DETECTOR - TRANSMITTING UNIT; MOUNT 18" BELOW CEILING LEVEL, U.O.N. WALL-MOUNTED BEAM SMOKE DETECTOR - RECEIVING UNIT; MOUNT IN **EXACT HORIZONTAL & VERTICAL ALIGNMENT WITH CORRESPONDING** TRANSMITTING UNIT CEILING-MOUNTED BEAM SMOKE DETECTOR - TRANSMITTING UNIT
- CEILING-MOUNTED BEAM SMOKE DETECTOR RECEIVING UNIT; MOUNT IN EXACT HORIZONTAL & VERTICAL ALIGNMENT WITH CORRESPONDING TRANSMITTING UNIT FIRE ALARM SYSTEM END-OF-LINE RESISTOR
- FIRE SMOKE DAMPER BY MECHANICAL. COORDINATE WITH MECHANICAL FOR
- MONITORING TO FIRE ALARM SYSTEM (INCLUDING SMOKE DETECTOR PROVISIONS). CONTROL OF DAMPER TO BE BY MECHANICAL, U.O.N. PROVIDE TOGGLE TYPE DISCONNECT SWITCH FIRE ALARM CONTROL PANEL
- FAAP FIRE ALARM ANNUNCIATOR PANEL
 - WEATHERPROOF ENCLOSURE CONDUIT AND WIRE CONCEALED IN CEILING OR WALL
 - CONDUIT AND WIRE CONCEALED IN OR UNDER SLAB OR UNDERGROUND
- CONDUIT AND WIRE RUN EXPOSED CROSSMARKS INDICATE QUANTITY OF #12 CONDUCTORS PLUS PARITY SIZED GROUND CONDUCTOR, NO HASHMARKS INDICATES (2) #12 CONDUCTORS PLUS PARITY SIZED GROUND CONDUCTOR, U.O.N.
 - GROUND WIRE
- WIRE SIZE 10 AWG FOR ALL CONDUCTORS, INCLUDING GROUND WIRE, THROUGHOUT THE COMPLETE CIRCUIT FLEXIBLE METALLIC CONDUIT
 - HOMERUN TO PANELBOARD OR TERMINAL BOARD, AS NOTED ON PLANS
 - COMPLETE CONNECTION OF EQUIPMENT
- CONDUIT STUBBED OUT, CAPPED AND MARKED
 - CONDUIT TURNED UP
 - CONDUIT TURNED DOWN
- NUMBERED SHEET NOTE

ABBREVIATIONS

- AFF ABOVE FINISHED FLOOR CONDUIT CATV CABLE TV
- CO CONDUIT ONLY CU COPPER
- E.C. ELECTRICAL CONTRACTOR EMERGENCY LIGHT FIXTURE ON EMERGENCY GENERATOR OR INVERTER.
- EMERGENCY LIGHT FIXTURE WITH BATTERY PACK, SWITCHABLE

GROUND FAULT CIRCUIT INTERRUPTING TYPE RECEPTACLE

- EMS ENERGY MANAGEMENT SYSTEM
- (E) EQPT EOUIPMENT
- EXISTING EQUIPMENT TO BE RELOCATED EXISTING EOUIPMENT TO BE DISCONNECTED AND REMOVED
- FLEXIBLE METALLIC CONDUIT
- FEED THROUGH LUGS
- INTERMEDIATE DISTRIBUTION FRAME IDF LOCKABL
- LOW VOLTAGE
- MCB MAIN CIRCUIT BREAKER
- MAIN DISTRIBUTION FRAME
- MANUFACTURER
- MLO MAIN LUGS ONLY
- MOUNTED
- NEW N.E.C. NATIONAL ELECTRICAL CODE
- N.I.E.C. NOT IN ELECTRICAL CONTRACT O.A.H. OVERALL HEIGHT
- O.F.C.I. OWNER FURNISHED, CONTRACTOR INSTALLED
- INDICATES FIXTURES ON PHOTOCELL CONTROL PUBLIC ADDRESS
- PNL
- SEE ARCHITECTURAL DRAWINGS S.A.D.
- STC INDICATES FIXTURES ON TIMECLOCK CONTROL
- TELE TELEPHONE
- TVSS TRANSIENT VOLTAGE SURGE SUPPRESSION
- U.O.N. UNLESS OTHERWISE NOTED
- VAV BOX, SEE MECHANICAL DIVISION DRAWINGS FOR LOCATIONS. PROVIDE TOGGLE TYPE DISCONNECT SWITCH
- WEATHER PROOF, NEMA 3R
- WPIU WEATHER PROOF WHILE IN USE

SYMBOLS LIST

ALL SWITCH AND CONTROL MOUNTING HEIGHTS OF 48" SHALL BE TO TOP OF THE DEVICE BOX. ALL RECEPTACLES WITH MOUNTING HEIGHT OF UP TO 18" SHALL BE NO LOWER THAN 15" TO BOTTOM OF THE DEVICE BOX, TYPICAL, U.O.N.

- MAIN SWITCHBOARD, DISTRIBUTION PANEL OR MOTOR CONTROL CENTER FLUSH MOUNTED PANELBOARD, 6'-6" TO TOP
 - SURFACE MOUNTED PANELBOARD, 6'-6" TO TOP
- FUSED EQUIPMENT DISCONNECT SWITCH WITH FUSE SIZE AS RECOMMENDED BY EOUIPMENT MANUFACTURER
- MOTOR DISCONNECT SWITCH: HORSEPOWER RATED, NON FUSE
- COMBINATION MAGNETIC MOTOR STARTER & MOTOR CIRCUIT PROTECTOR MAGNETIC MOTOR STARTER
- /ARIABLE FREQUENCY DRIVE, FURNISHED BY MECHANICAL, INSTALLED & CONNECTED COMPLETE BY ELECTRICAL
- MANUAL MOTOR STARTER WITH OVERLOAD PROTECTION MOTOR WITH FLEXIBLE CONDUIT CONNECTION AND DISCONNECT
- LINE VOLTAGE MOTOR RATED TOGGLE SWITCH INSTALLED AT EQPT SHOWN
 - TRANSFORMER CONCRETE PULLBOX, SIZE AS REQUIRED OR SHOWN - CHRISTY OR EQUAL WITH LABELED LID PER USE
- COPPER GROUND ROD \odot
- FLUSH CEILING MOUNTED JUNCTION BOX, U.O.N. FLUSH WALL MOUNTED JUNCTION BOX, UP 18" U.O.N.
- JUNCTION BOX FLUSH FLOOR MOUNTED
- 20A 3PG 125V DUPLEX RECEPTACLE, UP 18" U.O.N.
- 20A 3PG 125V DUPLEX RECEPTACLE, WEATHERPROOF, UP 18" U.O.N. 20A 3PG 125V DUPLEX RECEPTACLE, GROUND FAULT CIRCUIT INTERRUPTER
- 20A 3PG 125V DUPLEX RECEPTACLE, ISOLATED GROUND TYPE, UP 18" U.O.N.
- 20A 3PG 125V DUPLEX RECEPTACLE, MOUNTED ABOVE COUNTER, U.O.N. 20A 3PG 125V DOUBLE DUPLEX RECEPTACLE, UP 18" U.O.N.
- 20A 3PG 125V DOUBLE DUPLEX RECEPTACLE, MOUNTED ABOVE COUNTER, U.O.N.
- 20A 3PG 125V SINGLE RECEPTACLE, UP 18" U.O.N. 20A 3PG 125V SINGLE TWISTLOCK RECEPTACLE, NEMA L5-20R, UP 18" U.O.N.
- SPECIAL RECEPTACLE AS INDICATED ON PLANS HALF CONTROLLED AND IDENTIFIED DUPLEX RECEPTACLE WIRED THROUGH LOCAL
- PLUG-LOAD CONTROLLER FOR ONE HALF OF DUPLEX, UP 18" U.O.N. FLUSH IN FLOOR OUTLET BOX WITH QUANTITY OF 20A 3PG 125V DUPLEX RECEPTACLES AS INDICATED ON PLANS

FLUSH CEILING MTD. DUPLEX OUTLET, 20A 3PG

- LINE VOLTAGE THERMOSTAT, PROVIDED & INSTALLED BY ELECTRICAL, CONNECTED COMPLETE BY MECHANICAL
- SURFACE MOUNTED WIREMOLD RACEWAY WITH RECEPTACLES AS INDICATED ON TERMINAL MOUNTING BACKBOARD, 3/4" PLYWOOD, DIMENSIONS AS NOTED ON PLANS, PAINT TO MATCH ADJACENT WALL SURFACE, MAINTAINING UL FIRE
- LABEL VISIBLE TELEPHONE OUTLET, UP 18" U.O.N. TELEPHONE OUTLET, UP 48" U.O.N.
- COMBINED TELEPHONE/DATA OUTLET, UP 18" U.O.N. - NUMBER INDICATES QUANTITY OF DATA OUTLET JACKS
- COMBINED VOICE/DATA OUTLET, MOUNTED ABOVE COUNTER U.O.N. INTERCOM HANDSET, UP 48" U.O.N.
- WIRELESS ACCESS POINT (WAP) W/CAT6 CABLE/JACKS AT CEILING WALL MOUNTED SIGNAL SYSTEM CLOCK, UP 96" U.O.N.
- WALL MOUNTED VIDEO OUTLET, UP 18" U.O.N. FLUSH WALL MOUNTED INDOOR PUBLIC ADDRESS SPEAKER, UP 96" U.O.N.
- FLUSH WALL MOUNTED OUTDOOR WEATHERPROOF PUBLIC ADDRESS SPEAKER S FLUSH CEILING MOUNTED INDOOR PUBLIC ADDRESS SPEAKER
- FLUSH WALL MOUNTED INDOOR PUBLIC ADDRESS SPEAKER & SIGNAL SYSTEM CLOCK, UP 96" U.O.N.
- FIRE ALARM SYSTEM MANUAL PULL STATION, UP 48" U.O.N. FIRE ALARM SYSTEM HORN/STROBE, UP 80" U.O.N. NUMBER ADJACENT INDICATES CANDELA VALUE FOR STROBE
- WEATHERPROOF FIRE ALARM SYSTEM HORN/STROBE, UP 80" U.O.N. NUMBER ADJACENT INDICATES CANDELA VALUE FOR STROBE FIRE ALARM SYSTEM HORN/STROBE, CEILING MOUNTED. NUMBER ADJACENT
- FIRE ALARM SYSTEM STROBE, UP 80" U.O.N. NUMBER ADJACENT INDICATES CANDELA VALUE FOR STROBE FIRE ALARM SYSTEM STROBE, CEILING MOUNTED. NUMBER ADJACENT

INDICATES CANDELA VALUE FOR STROBE

- INDICATES CANDELA VALUE FOR STROBE WEATHERPROOF FIRE ALARM SYSTEM HORN, UP 90" U.O.N. FIRE ALARM SYSTEM SPEAKER/STROBE, UP 80" U.O.N. NUMBER ADJACENT
- INDICATES CANDELA VALUE FOR STROBE FIRE ALARM SYSTEM SPEAKER/STROBE, CEILING MOUNTED. NUMBER ADJACENT INDICATES CANDELA VALUE FOR STROBE
- S 4 FIRE ALARM SYSTEM SPEAKER, UP 90" U.O.N. WEATHERPROOF FIRE ALARM SYSTEM SPEAKER, UP 90" U.O.N.

FIRE ALARM SYSTEM SPEAKER, CEILING MOUNTED

- WALL MOUNTED ELECTROMAGNETIC DOOR HOLD-OPEN DEVICE, FURNISHED BY DIV. 8, INSTALLED & CONNECTED COMPLETE TO FIRE ALARM SYSTEM BY DIV. 28 FIRE ALARM SYSTEM SPRINKLER FLOW SWITCH. PROVIDE MONITOR MODULE
- FIRE ALARM SYSTEM SPRINKLER VALVE SUPERVISORY SWITCH. PROVIDE MONITOR MODULE POST INDICATING VALVE SPRINKLER FLOW ALARM (PROVIDE BY SPRINKLER CONTRACTOR).
- CONNECT COMPLETE VIA WATER FLOW SWITCH AUX. CONTACTS **(**S**)** FIRE ALARM SYSTEM SMOKE DETECTOR FIRE ALARM SYSTEM CEILING MOUNTED SMOKE DETECTOR PROGRAMMED FOR
- FIRE ALARM SYSTEM HEAT DETECTOR FIRE ALARM SYSTEM HVAC DUCT MOUNTED SMOKE DETECTOR. COORDINATE

AUTOMATIC RECALL OF ELEVATOR

- WITH MECHANICAL FOR SUPPLY, INSTALL AND COMPLETE CONNECTION (INCLUDING CONTROL OF HVAC EQUIPMENT) - <u>SEE</u> SPECIFICATIONS FIRE ALARM SYSTEM MONITOR MODULE
- FIRE ALARM SYSTEM CONTROL MODULE R FIRE ALARM SYSTEM RELAY MODULE FIRE ALARM SYSTEM CEILING MOUNTED CARBON MONOXIDE DETECTOR WITH
- FIRE ALARM SYSTEM CEILING MOUNTED AIR SAMPLING PORT

GENERAL NOTES

- PRIOR TO BID THE CONTRACTOR SHALL VISIT THE SITE TO ADECUATELY DETERMINE ALL PRE-EXISTING CONDITIONS. BY THE ACT OF SUBMITTING A BID. THE CONTRACTOR WILL BE DEEMED TO HAVE COMPLIED WITH THE FOREGOING, TO HAVE ACCEPTED SUCH CONDITIONS, AND TO HAVE MADE ALLOWANCES THEREFORE IN PREPARING THE BID
- PROVIDE PARITY SIZED GREEN GROUND WIRE IN ALL POWER CONDUITS, BRANCH CIRCUITS (LIGHTING & POWER) AND HOMERUNS. PROVIDE ADDITIONAL ISOLATED GROUND, GREEN WITH YELLOW STRIPE TO ALL ISOLATED GROUND RECEPTACLES.
- PROVIDE PULLROPE IN ALL EMPTY CONDUITS THROUGHOUT THE PROJECT.
- REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION & CONNECTION REQUIREMENTS OF ALL LUMINAIRE(S) AND ALL OUTLET, SWITCH, AND ELECTRICAL RELATED DEVICE MOUNTING HEIGHTS AND LOCATIONS. COORDINATE LOCATIONS OF ALL LUMINAIRE(S) AND JUNCTION BOXES WITH MECHANICAL DIVISION PRIOR TO ROUGH-IN. COORDINATE LOCATIONS OF ELECTRICAL DEVICES WITH FURNITURE PLANS PRIOR TO ROUGH-IN.
- REFER TO MECHANICAL PLANS FOR EXACT LOCATION(S) OF ALL MECHANICAL EQUIPMENT, AND CONFIRM EXACT CONNECTION REQUIREMENTS OF ALL MECHANICAL FOLIPMENT WITH MECHANICAL DIVISION, PRIOR TO ROUGH-IN. VERIFY EXACT REQUIREMENTS FOR VOLTAGE, PHASE, HORSE-POWER OR KVA RATINGS, OF ALL MECHANICAL DIVISION EQUIPMENT REQUIRING ELECTRICAL CONNECTION. VERIFY EXACT CONNECTION REQUIREMENTS, OUTLET TYPE(S), MOUNTING HEIGHT(S) AND LOCATION(S) OF ALL OWNER-SUPPLIED EQUIPMENT, AND ALL EQUIPMENT PROVIDED UNDER OTHER
- SECTIONS OF THE SPECIFICATIONS, PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL DRAWINGS FOR EOUIPMENT LOCATIONS.
- COORDINATE TRENCHING WITH OWNER AND OTHER TRADES BEFORE BEGINNING WORK. ALL CONDUIT PENETRATIONS THROUGH FIRE-RATED WALLS AND FLOORS SHALL BE SEALED AND EQUIPPED WITH U.L. LISTED FIRE PENETRATION ASSEMBLIES TO MAINTAIN FIRE SEPARATION RATING
- DO NOT INSTALL ANY OUTLETS BACK TO BACK IN STUD WALLS OR DE-MOUNTABLE PARTITIONS. O. CIRCUITRY AND CONDUIT ROUTING SHOWN ON THE PLANS IS DIAGRAMMATIC ONLY. THIS CONTRACTOR IS RESPONSIBLE FOR BECOMING COMPLETELY FAMILIAR WITH THE ARCHITECTURAL AND STRUCTURAL CONDITIONS AND LIMITATIONS IN THE BUILDING AND TO PROVIDE ALL LABOR, TOOLS
- AND MATERIALS REQUIRED TO PRODUCE A COMPLETELY CONCEALED INSTALLATION WHEREVER INDICATED ON THE PLANS. MAINTAIN "AS-BUILT" RECORDS AT ALL TIMES, SHOWING EXACT LOCATION OF ALL UNDERGROUND AND/OR CONCEALED CONDUITS AND SERVICES INSTALLED LINDER THIS CONTRACT. INCLUDING
- CIRCUIT IDENTIFICATION WHERE APPLICABLE. PROVIDE OWNER WITH "AS-BUILT" DOCUMENTS AS INDICATED IN THE SPECIFICATIONS, AND/OR CALLED FOR IN THE SPECIFICATIONS. . DRAWINGS INDICATE THE LOCATION(S) OF DEVICES, LUMINAIRE(S) AND EQUIPMENT, AND THE

CIRCUIT NUMBER AND PANEL DESIGNATED TO SUPPLY THEM. THE CONTRACTOR SHALL BE

RESPONSIBLE FOR COMPLETELY CONNECTING ALL ELECTRICAL DEVICES TO CIRCUITS INDICATED ON

- THE DRAWINGS. . UNLESS OTHERWISE NOTED, ALL WORK SHOWN ON DRAWINGS IS NEW AND TO BE PROVIDED AND INSTALLED COMPLETE UNDER THIS CONTRACT
- 4. ALL EQUIPMENT GROUNDING SHALL CONFORM TO ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE, LATEST EDITION. . ALL EXTERIOR CONDUIT ABOVE GRADE, INCLUDING ALL ROOF MOUNTED CONDUIT, SHALL BE

GALVANIZED RIGID STEEL. COAT ALL EXPOSED THREADS WITH GALVANIZING PAINT. PAINT ALL

- SURFACE MOUNTED RACEWAYS AND PULLBOXES TO MATCH SURROUNDING CONDITIONS, AS DIRECTE . ALL ELECTRICAL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE LATEST EDITION OF THE
- N.E.C., AS WELL AS STATE, AND LOCAL CODES AND REOUIREMENTS 7. ALL CONDUIT SHALL BE CONCEALED, UNLESS OTHERWISE NOTED.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE AVAILABLE SHORT CIRCUIT CURRENT AT THE MAIN SWITCHBOARD INCOMING TERMINALS WITH THE UTILITY COMPANY, AND TO VERIFY THAT ALL POWER AND SIGNAL SERVICE PROVISIONS, INCLUDING CONCRETE EQUIPMENT PADS, CONDUITS PULLBOXES AND CLEARANCES, MEET THE UTILITY COMPANY'S REQUIREMENTS, PRIOR TO
- 9. EQUIPMENT OVERLOADS AND FUSES SHALL BE PROVIDED AND INSTALLED AS PER NAME PLATE ON THE EQUIPMENT ACTUALLY PROVIDED
- . THE CONTRACTOR SHALL VERIFY ALL CRITICAL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN
- ALL EXIT SIGNS SHALL COMPLY WITH THE RELEVANT PORTIONS OF SECTIONS 1008 AND 1013 OF THE
- 2. ALL MECHANICAL DIVISION EOUIPMENT LOW VOLTAGE CONTROL WIRING AND RACEWAY SHALL BE PROVIDED AND INSTALLED AS SPECIFIED IN MECHANICAL DIVISION U.O.N. USE FLEXIBLE CONDUIT FOR ALL MOTOR, TRANSFORMER, RECESSED LUMINAIRE CONNECTIONS, AND CONNECTIONS BETWEEN TWO SEPARATE STRUCTURES AND FOR ALL FINAL CONNECTIONS TO CRITICAL EQUIPMENT" AS DEFINED IN SPECIFICATIONS. MINIMUM 1/2" DIAMETER, LIQUID TIGHT
- TYPE USED OUTDOORS AND IN ALL WET LOCATIONS; PROVIDE WITH CODE-SIZE (MINIMUM #12) BARE GROUND WIRE IN ALL FLEXIBLE CONDUIT
- 4. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR ALL BRANCH CIRCUITS FEEDING OUTLETS AS NOTED ON THE DRAWINGS. 5. FOR FLUSH MOUNTED PANELBOARDS THE CONTRACTOR SHALL STUB A MINIMUM OF FOUR (4) 3/4"
- CONDUITS FROM THE PANEL UP INTO THE ACCESSIBLE CEILING ABOVE FOR FUTURE CIRCUITS. ALL CONDUIT CONNECTORS TO OUTLET OR JUNCTION BOXES SHALL HAVE INSULATED THROATS MANUFACTURED AS AN INTEGRAL PART OF THE CONNECTOR). AFTER-MARKET INSERTABLE THROATS
- ARE NOT ACCEPTABLE. . ALL CIRCUITS IN ALL JUNCTION BOXES AND DEVICES SHALL BE CLEARLY IDENTIFIED BY MEANS OF EZ" NUMBERING TAGS OR EQUIVALENT, TO IDENTIFY THE CIRCUIT NUMBER OR RELAY SUPPLYING THE
- CONDUCTOR. ALL JUNCTION BOXES SHALL BE LABELED PER SPECIFICATIONS. 8. ALL SURFACE MOUNTED POWER AND SIGNAL BOXES IN FINISHED AREAS SHALL BE "WIREMOLD" TYPE WITH MATCHING RACEWAYS. SURFACE MOUNTED STEEL JUNCTION BOXES AND/OR EMT ARE NOT
- 9. ALL LOCATIONS OF BARE METAL SURFACE MOUNTED CONDUIT, BOXES, PANELBOARDS, AND RELATED FITTINGS OR ACCESSORIES INSTALLED IN FINISHED AREAS (BOTH INTERIOR AND EXTERIOR) SHALL BE FINISH PAINTED TO MATCH THE SURFACE TO WHICH THEY ARE MOUNTED TO (AFTER INSTALLATION). PAINTING SHALL INCLUDE DIFFERENT COLORS AS REQUIRED TO MATCH SURROUNDING CONDITIONS OR OTHER BUILDING FEATURES TO WHICH THE EQUIPMENT IS ATTACHED
- AND VISIBLE. VERIFY EXACT JUNCTION BOX LOCATION(S) AND ROUTING OF EXPOSED RACEWAYS WITH THE ARCHITECT PRIOR TO ROUGH-IN. D. PROVIDE A BLANK COVER PLATE (COLOR TO MATCH ADJACENT DEVICES OR AS SPECIFICALLY CALLED FOR IN SPECIFICATIONS) FOR ALL JUNCTION BOXES (NEW AND EXISTING) ON THE PROJECT WHEN NO
- . FOR OUTDOOR 15 AND 20-AMPERE, 125 AND 250-VOLT RECEPTACLES: RECEPTACLES LOCATED IN WET" LOCATIONS SHALL HAVE "IN-USE" TYPE WEATHERPROOF COVER PLATES PROVIDED AND INSTALLED: RECEPTACLES LOCATED IN "DAMP" LOCATIONS SHALL HAVE "IN-USE" TYPE WEATHERPROOF COVER PLATES IN LOCATIONS DEEMED TO BE "IN-USE" WITH CORD AND PLUG
- . WHEN SERIES RATING IS USED ON ANY CIRCUIT BREAKER ON THIS PROJECT PROVIDE A FIELD MARKING PER CEC 110-22 ON THE EQUIPMENT COVER THAT IS VISIBLE TO MAINTENANCE PERSONNE INDICATING THAT THE BREAKER HAS BEEN APPLIED WITH A SERIES COMBINATION RATING. 3. ALL RECEPTACLES IN LOCATIONS IDENTIFIED IN NEC 406.12 (I.E. DWELLING UNITS, HOTEL/MOTEL
- UNITS, AND ASSISTED LIVING UNITS) SHALL BE TAMPER RESISTANT. 4. REMOVE ALL (E) FIRE ALARM DEVICES IN BUILDING A. PROVIDE BLANK COVERPLATES ON (E) FLUSH OUTLET BOXES TO REMAIN.

GUEST ROOMS, CHILD CARE, PRESCHOOL, K-12 SCHOOLS, BUSINESS OFFICE COMMON AREAS, IN

CLINICS, MEDICAL AND OUTPATIENT FACILITIES, ASSEMBLY AREA COMMON AREAS, DORMITORY

LIST OF DRAWINGS

- E-0.1 SYMBOLS LIST, GENERAL NOTES & LIST OF DRAWINGS E-2.1 FLOOR PLAN - LIGHTING
- E-3.1 FLOOR PLAN ELECTRICAL
- E-6.1 DETAILS & SCHEDULES FE-0.1 FIRE ALARM COMPONENTS LIST, NOTES & DETAILS
- FE-1.1 SITE PLAN FIRE ALARM FE-3.1 FLOOR PLAN - FIRE ALARM
- FE-5.1 RISER DIAGRAM AND CALCULATIONS FIRE ALARM

DIV. OF THE STATE ARCHITEC APP: 01-120920 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌

IDENTIFICATION STAMP



ARCHITECTS

636 Fifth Street, Santa Rosa, CA 95404

East Bay: 55 Harrison Street, Suite 525, Oakland, CA 94607 (707) 576-0829



ALTERATIONS AT UNIVERSIT ES @ LA FIESTA

HVAC AND LIGHTING REPLACEMENT 8511 LIMAN WAY

ROHNERT PARK, CA

COTATI-ROHNERT PARK UNIFIED

SCHOOL DISTRIC

ARCH PROJECT NO: 2173.00 DRAWN BY: DRAWING SCALE:

FILE NO: 49-17

DSA APP NO. 01-120920

JULY 19, 2023

PTN: 73882-47

SYMBOLS LIST, **GENERAL NOTES & LIST**

OF DRAWINGS

NUMBERED SHEET NOTES

REF. NORTH

PROVIDE ISOLITE #DCL-G-1-BA-BA-MTEBP WITH 90-MIN BATTERY BACK-UP AND UNIVERSAL MOUNTING. CONNECT TO NEAREST UNSWITCHED HOT LIGHTING CIRCUIT. EXIT SIGN IS LESS THAN 10LB.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 01-120920 INC:

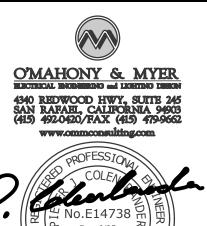
REVIEWED FOR
SS FLS ACS
DATE: 8/22/2023



ARCHITECTS

Main:
636 Fifth Street, Santa Rosa, CA 95404

East Bay: 55 Harrison Street, Suite 525, Oakland, CA 94607 (707) 576-0829



ALTERATIONS TO BUILDING A AT UNIVERSITY ES @ LA FIESTA

HVAC AND LIGHTING REPLACEMENT

8511 LIMAN WAY ROHNERT PARK, CA 94928

COTATI-ROHNERT PARK UNIFIED SCHOOL DISTRICT

DSA	APP NC	D. 01-120920	

DRAWN BY:	
DRAWING SCALE:	
PTN: 73882-47	FILE NO: 4

CD

2173.00

JULY 19, 2023

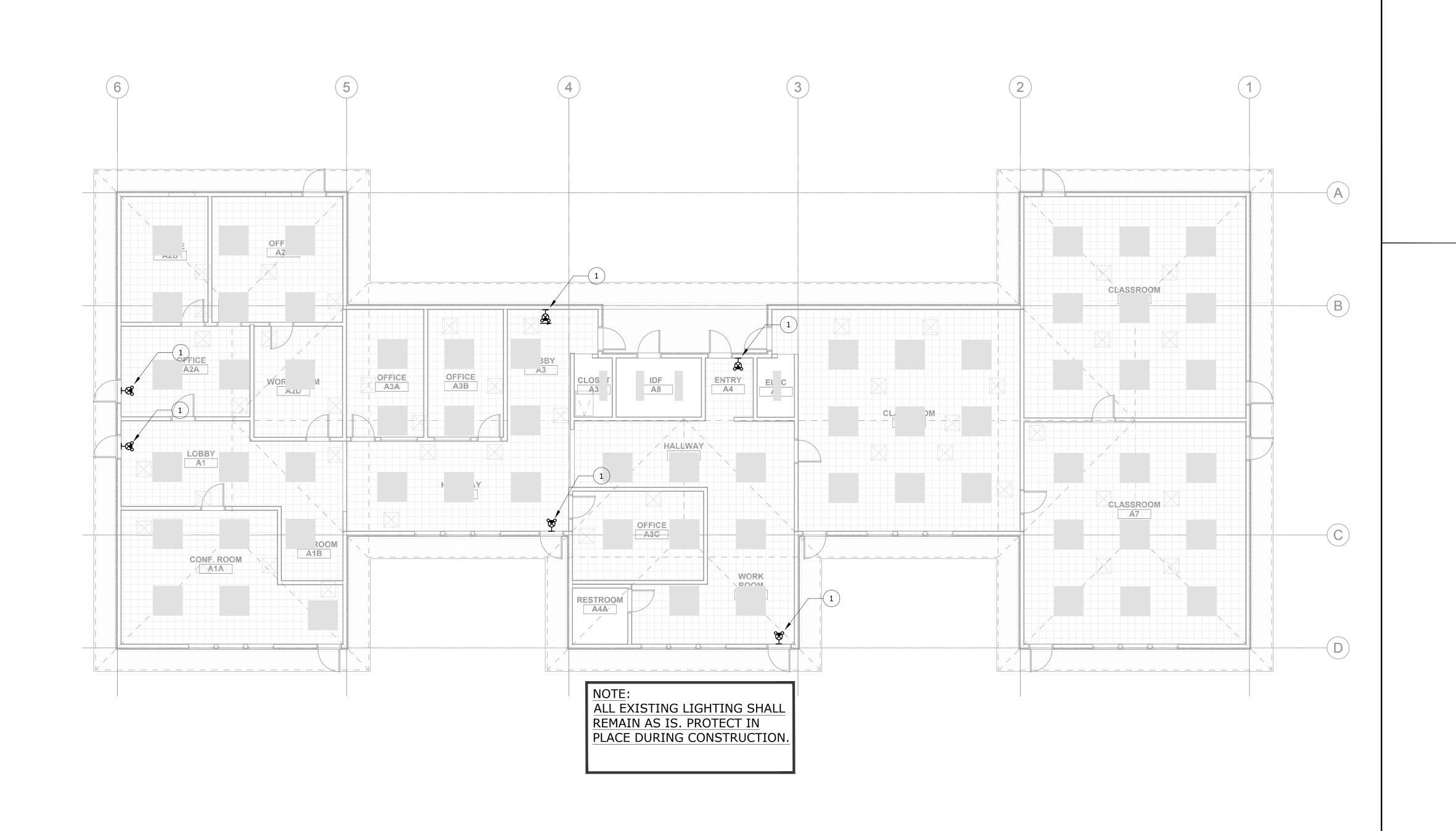
SHEET TITLE

ARCH PROJECT NO:

FLOOR PLAN -LIGHTING

SHEET NUMBER

E-2.1



FLOOR PLAN - LIGHTING

SCALE: 1/8" = 1'-0"

NUMBERED SHEET NOTES

REF. NORTH

REMOVE (E) FLUSH-MOUNTED PANELS AND REPLACE WITH NEW. RECONNECT & EXTEND ALL (E) OUTGOING AND INCOMING FEEDERS TO THE NEW PANELS. PATCH & REPAIR WALLS TO ACCOMMODATE THE NEW PANELS, TO MATCH SURROUNDING CONDITIONS.

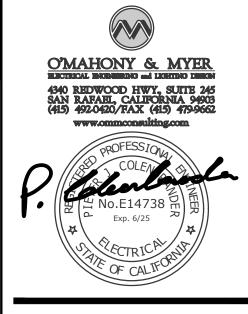
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 01-120920 INC: REVIEWED FOR SS ☑ FLS ☑ ACS □



ARCHITECTS

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ALTERATIONS TO BUILDING A AT UNIVERSITY ES @ LA FIESTA

HVAC AND LIGHTING REPLACEMENT

8511 LIMAN WAY ROHNERT PARK, CA 94928

COTATI-ROHNERT PARK UNIFIED SCHOOL DISTRICT

DSA APP NO. 01-120920								
ARCH PROJECT NO: 2173.								

DRAWN BY: DRAWING SCALE: PTN: 73882-47 FILE NO: 49-17

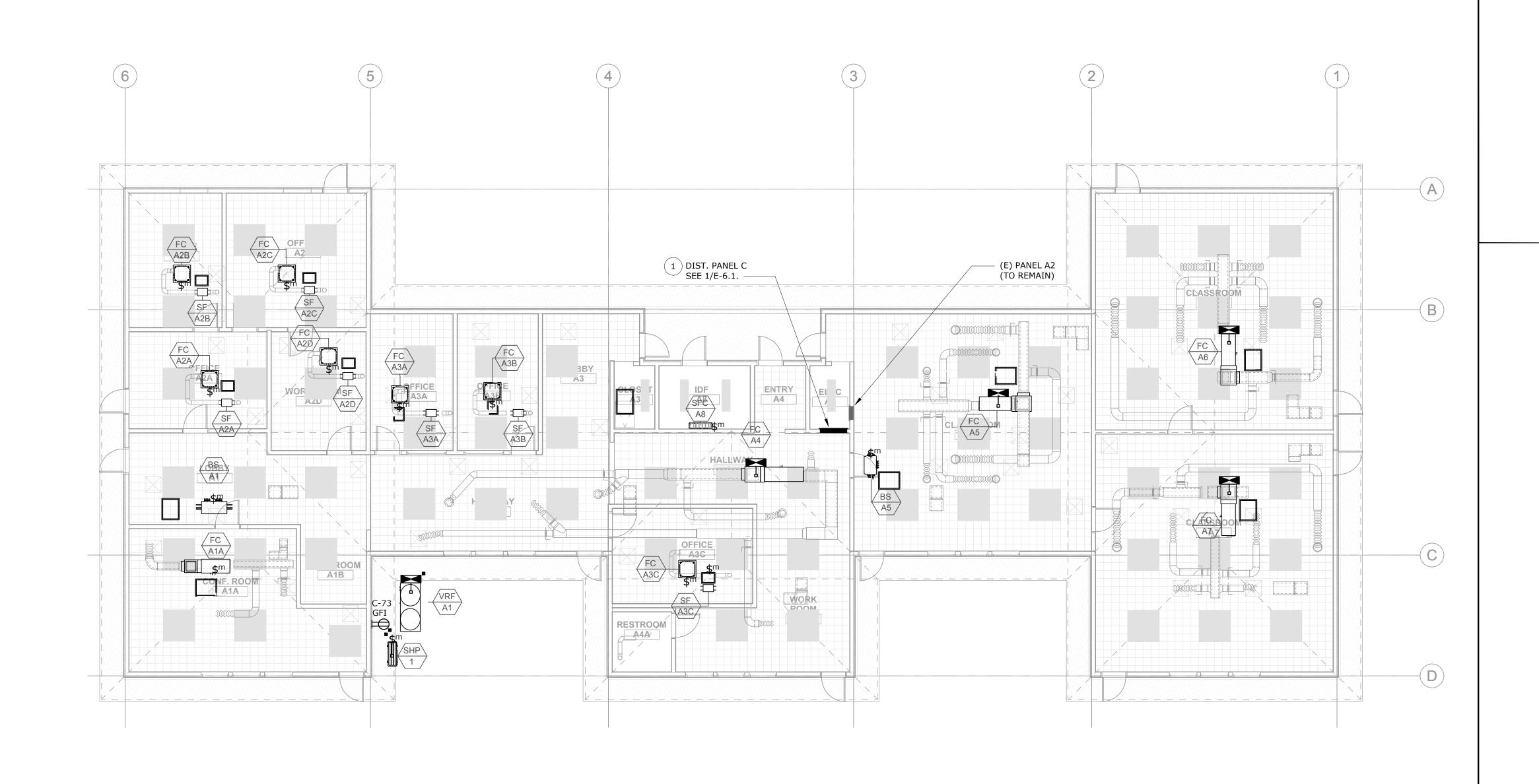
CD

2173.00

JULY 19, 2023

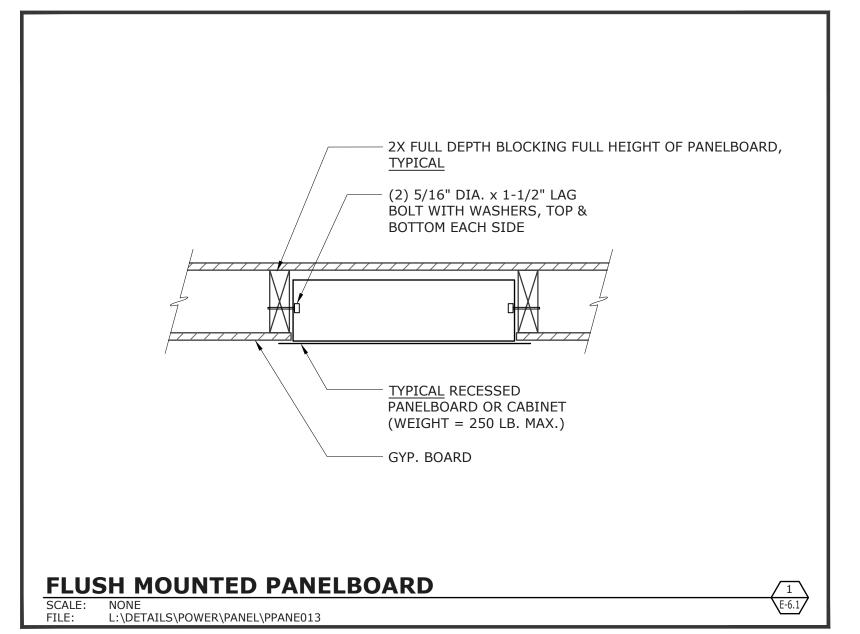
FLOOR PLAN -**ELECTRICAL**

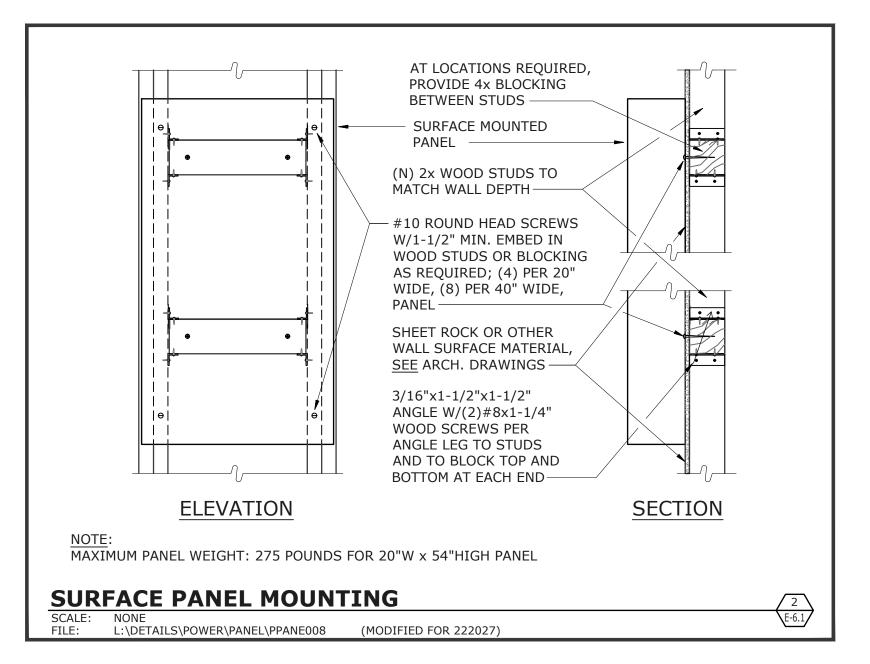
E-3.1



FLOOR PLAN - ELECTRICAL

SCALE: 1/8" = 1'-0"





EQPT.	ELECTRICAL	CONDUIT/	PANEL	REMARKS
TAG	RATING	CONDUCTOR		
FC-A1A	208V, 1PH, 13.63MCA, 15MOCP	1/2"C - (2) #12 & (1) #12G.	С	ALL NOTES
FC-A2A	208V, 1PH, .24MCA, 15MOCP	1/2"C - (2) #12 & (1) #12G.	С	ALL NOTES
FC-A2B	208V, 1PH, .24MCA, 15MOCP	1/2"C - (2) #12 & (1) #12G.	С	ALL NOTES
FC-A2C	208V, 1PH, .24MCA, 15MOCP	1/2"C - (2) #12 & (1) #12G.	С	ALL NOTES
FC-A2D	208V, 1PH, .24MCA, 15MOCP	1/2"C - (2) #12 & (1) #12G.	С	ALL NOTES
FC-A3A	208V, 1PH, .24MCA, 15MOCP	1/2"C - (2) #12 & (1) #12G.	С	ALL NOTES
FC-A3B	208V, 1PH, .24MCA, 15MOCP	1/2"C - (2) #12 & (1) #12G.	С	ALL NOTES
FC-A3C	208V, 1PH, .24MCA, 15MOCP	1/2"C - (2) #12 & (1) #12G.	С	ALL NOTES
FC-A4	208V, 1PH, 24.6MCA, 30MOCP	3/4"C - (2) #10 & (1) #10G.	С	ALL NOTES
FC-A5	208V, 1PH, 24.6MCA, 30MOCP	3/4"C - (2) #10 & (1) #10G.	С	ALL NOTES
FC-A6	208V, 1PH, 24.6MCA, 30MOCP	3/4"C - (2) #10 & (1) #10G.	С	ALL NOTES
FC-A7	208V, 1PH, 24.6MCA, 30MOCP	3/4"C - (2) #10 & (1) #10G.	С	ALL NOTES
VRF-A1	208V, 3PH, 68MCA, 80MOCP	1-1/2"C - (3) #4 & (1) #8G.	С	ALL NOTES
BS-A1	208V, 1PH, 2MCA, 15MOCP	1/2"C - (2) #12 & (1) #12G.	С	ALL NOTES
BS-A5	208V, 1PH, 2MCA, 15MOCP	1/2"C - (2) #12 & (1) #12G.	С	ALL NOTES
SF-A2B	208V, 1PH, 27W	1/2"C - (2) #12 & (1) #12G.	С	ALL NOTES
SF-A2C	208V, 1PH, 27W	1/2"C - (2) #12 & (1) #12G.	С	ALL NOTES
SF-A2A	208V, 1PH, 27W	1/2"C - (2) #12 & (1) #12G.	С	ALL NOTES
SF-A2D	208V, 1PH, 27W	1/2"C - (2) #12 & (1) #12G.	С	ALL NOTES
SF-A3A	208V, 1PH, 27W	1/2"C - (2) #12 & (1) #12G.	С	ALL NOTES
SF-A3B	208V, 1PH, 27W	1/2"C - (2) #12 & (1) #12G.	С	ALL NOTES
SF-A3C	208V, 1PH, 27W	1/2"C - (2) #12 & (1) #12G.	С	ALL NOTES
SHP-1	208V, 1PH, 12.5MCA, 20MOCP	1/2"C - (2) #12 & (1) #12G.	С	ALL NOTES
SFC-A8	208V, 1PH, 12.5MCA, 20MOCP	1/2"C - (2) #12 & (1) #12G.		POWERED BY OUTDOOR UNIT

NOTES:

1. PROVIDE NEW EQUIPMENT DISCONNECT SWITCHES, BRANCH CIRCUITS, RACEWAYS (GRS) & WIRING, TYPICAL, U.O.N.

2. COORDINATE ALL ELECTRICAL REQUIREMENTS & CONTROLS WITH MECHANICAL AND INCLUDE ALL WORK IN BID. SEE MECHANICAL DRAWINGS & SPECIFICATIONS.

3. REMOVE AND DISCONNECT ALL (E) MECHANICAL FEEDERS, RACEWAYS, WIRING AND ALL RELATED COMPONENTS. SEE MECHANICAL DRAWINGS & SPECIFICATIONS.

VOLTS:	120 / 208 V				(8	ECTION 1	- RIGHT	HAND SID	E)				MAIN BR	KR.	400A/3P
PHASE:	3 PH				(-				_,				ENCLOS		1007 001
WIRE:	4 W		1. PANEL SHALL BE SQUARE DI-LINE SERIES OR EQUAL. CONDUIT:												
BUSSING:	400A					2. PANEL SH							MOUNTE		FLUSH
POLES:													AIC RAT		10K
LOAD DESCR	RIPTION	TYPE	Α	В	С	BRKR.	СКТ.	СКТ.	BRKR.	Α	В	С	TYPE	LOAI	DESCRIPTION
F-A2B, SF-A2C & SF-A2A		Н	0.04			15/2	1	2	80/3	7.00			Н	VRF-A1	
VITH CKT 1		Н		0.04		-	3	4	- 1		7.00		Н	WITH CKT 2	
F-A2D, SF-A3A, SF-A3B 8	SF-A3C	Н			0.05	15/2	5	6	- 1			7.00	Н	WITH CKT 2	
/ITH CKT 5		Н	0.05			-	7	8	15/2	0.40	1		Н	BS-A1 & BS-A5	
HP-1/SFC-A8		Н		1.30		20/2	9	10	-		0.40		Н	WITH CKT 8	
VITH CKT 9		Н			1.30	-	11	12	15/2			1.20	Н	FC-A1A	
PACE							13	14	- 1	1.20]		Н	WITH CKT 12	
PACE							15	16	15/2		0.07		Н	FC-A2A, FC-A2B	& FC-A2C
PACE			•				17	18	- 1			0.07	Н	WITH CKT 16	
PACE							19	20	15/2	0.07]		Н	FC-A2D, FC-A3A	& FC-A3C
PACE							21	22	- 1		0.07		Н	WITH CKT 20	
PACE							23	24						SPACE	
PACE							25	26						SPACE	
PACE							27	28						SPACE	
PACE							29	30						SPACE	
PACE							31	32						SPACE	
PACE							33	34						SPACE	
PACE							35	36						SPACE	
PACE							37	38						SPACE	
PACE							39	40						SPACE	
PACE							41	42						SPACE	
		L	0.09	1.34	1.35]				8.67	7.54	8.27		_	
										THIS	SECTIO	N PHA	SE A:	8.76	KVA
	EMAND LOAD SUMMAR	N/		CONN.	DEM	IAND	DEMAN	ID IZ /A		THIS	SECTIO	N PHA	SE B:	8.88	KVA
	EIVIAND LOAD SUIVIIVIAR	K I		KVA	FAC	TOR	DEMAND KVA			THIS	SECTIO	N PHA	SF C:	9.62	KVA
TYPF "M"· NON-	CONTINUOUS / MISC. L	OADS		0.00	100% 0.00		THIS SECTION PHASE C: THIS SECTION:			80.17	MAX AMPS PHASE				
ı	FING / CONTINUOUS LO			0.00	125% 0.00										
ı				0.00	100% 0.00		PANEL TOTAL PHASE A:			SE V.	20.64	IZV/A			
1	EPTACLES (FIRST 10KV	,									_		_		KVA
TYPE "R": RECE	EPTACLES (OVER 10KV	/A)		0.00	50)%	0.	00			EL TOTA			19.70	KVA
TYPE "H": HVAC	/ MECHANICAL LOADS	3		27.26	10	0%	27	.26		PANE	EL TOTA	AL PHA	SE C:	20.52	KVA
		-	TOTALS:	27.26			27	.26					TOTAL:	172.00	MAX AMPS PHASE

VOLTS: 12 PHASE: WIRE: BUSSING: POLES:	0 / 208 V 3 PH 4 W 400A			(3	SECTION :	2 - LEFT H	IAND SIDI	≣)				MAIN BE ENCLOS CONDUI MOUNTE AIC RAT	SURE: T: ED:	FED, FEED THRU LUGS FLUSH 10K
LOAD DESCRIPTION	TYF	E A	В	С	BRKR.	СКТ.	СКТ.	BRKR.	Α	В	С	TYPE		D DESCRIPTION
IGHTING CR 6	L	0.80			20/1	43	44	20/1	0.80			L	LIGHITNG CR 6	
IGHTING CR 6	L		0.80		20/1	45	46	20/1		0.80	1	L	LIGHTING CR 7	
IGHTING CR 5	L			0.80	20/1	47	48	20/1			0.80	L	LIGHTING CR 4	
IGHTING CR 5	L	0.80	1		20/1	49	50	20/1	0.80			L	LIGHTING CR 4	
LIGHTING CR 3	L		0.80		20/1	51	52	20/1		0.80	1	L	LIGHTING CR 1	
LIGHTING CR 3	L			0.80	20/1	53	54	20/1			0.80	L	LIGHTING CR 1	
IGHTING CR 2	L	0.80	1		20/1	55	56	20/1	0.54			R	RECEPT A1	
IGHTING CR 2	L		0.80		20/1	57	58	20/1		0.20]	L	LIGHTING STOR	RAGE
E) LOADS	R			0.54	20/1	59	60	20/1			0.54	R	FLOOR RECEP	Γ
E) LOADS	R	0.54	1		20/1	61	62	20/1	0.54			R	(E) LOADS	
RECEPT CR 6 & 7	R		0.54		20/1	63	64	20/1		0.54]	R	RECEPT CR 1 8	. 2
RECEPT CR 6 & 7	R			0.54	20/1	65	66	20/1			0.54	R	RECEPT CR 1 8	. 2
RECEPT CR 5	R	0.54	1		20/1	67	68	20/1	0.54			R	RECEPT CR 3	
RECEPT CR 4	R		0.54		20/1	69	70	100/3		5.00	1	R	(E) PANEL A2	
E) LOADS	R			0.54	20/1	71	72	-			5.00	R	WITH CKT 70	
OUTDOOR RECEPT	R	0.18	7		20/1	73	74	-	5.00			R	WITH CKT 70	
SPACE						75	76				1		SPACE	
SPACE						77	78						SPACE	
SPACE			7			79	80						SPACE	
SPACE						81	82]		SPACE	
SPACE						83	84						SPACE	
		3.66	3.48	3.22					8.22	7.34	7.68	İ	•	
					·				THIS	SECTIO	N PHA	SE A:	11.88	KVA
DEMAND	OAD CHIMMADY		CONN.	DEMAND DEMA		DEMAA	DEMANGE: 5.7.		THIS	SECTIO	N PHA	SE B:	10.82	 KVA
DEMAND	LOAD SUMMARY		KVA			DEMAN	ND KVA		THIS	SECTIO	N PHA	SE C:	10.90	KVA
TYPE "M": NON-CONTIN	JOUS / MISC. LOAI)S	0.00	100%		0.	00			THIS	S SECT	ION:	99.00	MAX AMPS / PHASE
TYPE "L": LIGHTING / CO			11.40	12	125% 14.25								_	
TYPE "R": RECEPTACLE		,	10.00		0%	l	.00							
	,		1			l								
TYPE "R": RECEPTACLE	S (UVER IUNVA)		12.20		0% 0%	l .	10 00							
TYPE "H": HVAC / MECH														

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

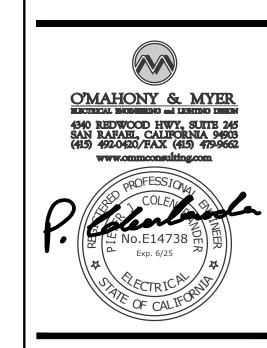
APP: 01-120920 INC:

REVIEWED FOR
SS FLS ACS
DATE: 8/22/2023



QUATTROCCHI KWOK ARCHITECTS

636 Fifth Street, Santa Rosa, CA 95404
East Bay:
55 Harrison Street, Suite 525,
Oakland, CA 94607
(707) 576-0829



ALTERATIONS TO BUILDING A AT UNIVERSITY ES @ LA FIESTA

HVAC AND LIGHTING REPLACEMENT

8511 LIMAN WAY ROHNERT PARK, CA 94928

COTATI-ROHNERT PARK UNIFIED SCHOOL DISTRICT

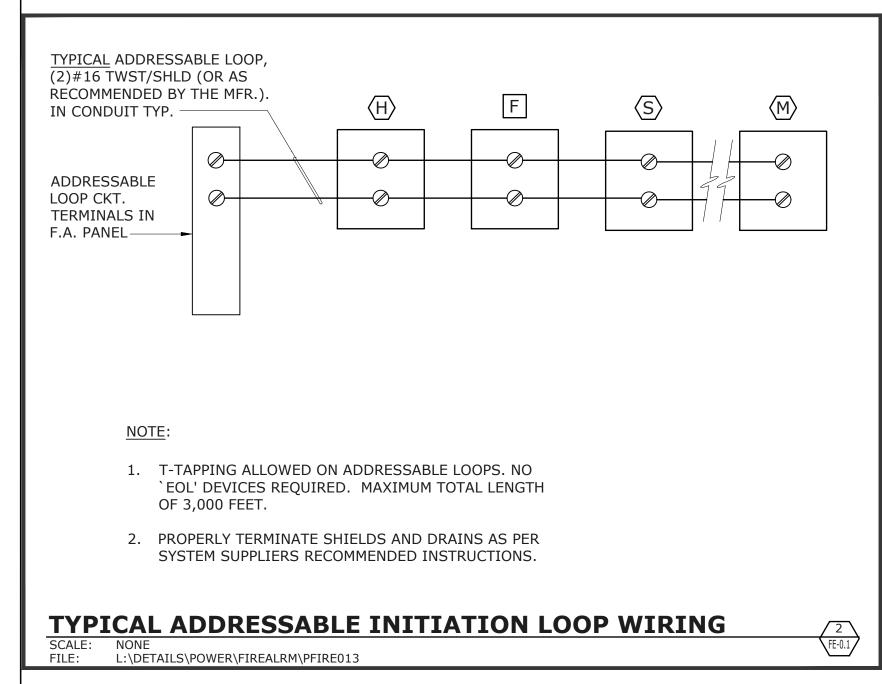
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ARCH PRO	JECT NO:	2173.00						
DRAWN BY	′ :							
DRAWING	DRAWING SCALE:							
PTN: 7388	PTN: 73882-47 FILE NO: 49-1							
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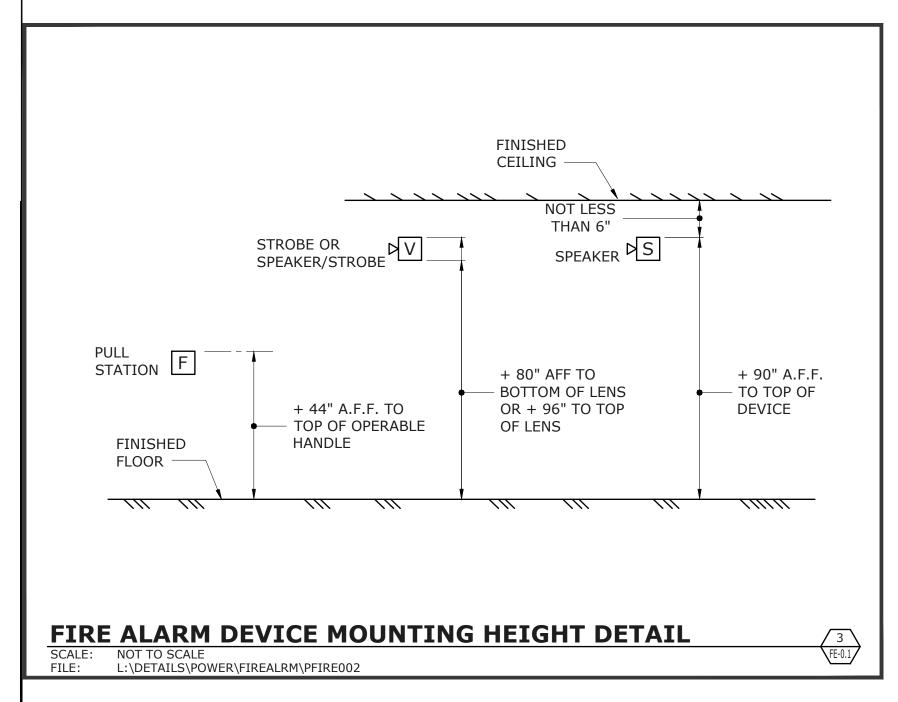
JULY 19, 2023

DETAILS & SCHEDULES

SHEET NUMBER

E-6.1





GENERAL FIRE ALARM NOTES

- FINAL FIRE ALARM TEST SHALL BE MADE WITH THE DSA INSPECTOR OF RECORD (IOR). LOCAL FIRE
 AUTHORITY SHALL BE NOTIFIED OF DATE AND TIME OF FINAL ALARM TESTING AND SHALL ASSIST/WITNESS
 SUCH TESTING WHEN ABLE. DSA/ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF (48)
 HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.
- 2. FIRE ALARM CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2. MONITORING SHALL BE TESTED AND VERIFIED AS SENDING THE CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT AND/OR PROVISIONS
- 3. UNDERGROUND AND EXTERIOR CONDUITS SHALL HAVE WATERTIGHT FITTINGS.
- 4. FIRE ALARM DEVICE MOUNTING HEIGHTS:
 - PULL STATION: 44" TO TOP OF OPERATOR ABOVE FINISHED FLOOR.
 - $\underline{\sf SPEAKER/HORN}:$ 90" MIN. TO TOP OF DEVICE ABOVE FINISHED FLOOR, OR 100" MAX TO TOP OF DEVICE, BUT NOT LESS THAN 6" FROM CEILING.

WALL MOUNTED STROBE OR SPEAKER/HORN/STROBE: BETWEEN 80" TO BOTTOM OF DEVICE LENS TO +96" TO TOP OF DEVICE LENS ABOVE FINISH FLOOR, BUT NOT LESS THAN 6" FROM CEILING.

- 5. AUDIBLE FIRE ALARM SYSTEM LEVEL SHALL BE AT LEAST 15dBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL IN ALL OCCUPIABLE AREAS, OR 5 dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, MEASURED AT 5 FEET ABOVE THE FLOOR. AUDIBLE SIGNALS SHALL NOT BE LESS THAN 75dBA AT 10 FEET, OR MORE THAN 110dBA AT THE MINIMUM HEARING DISTANCE.
- 6. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL THREE DISTINCTIVE FIRE ALARM SOUND PER NFPA
- 7. APPLICABLE CODES:
 - a. CBC 2022; CEC 2022; CMC 2022; CFC 2022.
 - b. STATE FIRE MARSHAL TITLE 19, PUBLIC SAFETY.
 - c. NFPA 72, 2019 EDITION W/CA AMENDMENTS, FIRE ALARM CODE.
- 8. STROBES SHALL FLASH AT A RATE NOT EXCEEDING TWO FLASHES PER SECOND, AND NOT LESS THAN ONE FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. VISUAL DEVICES WITHIN 55 FEET OF EACH OTHER SHALL BE SYNCHRONIZED.
- 9. FIRE ALARM CONTRACTOR SHALL PROVIDE A COPY OF NFPA 72 SYSTEM RECORD OF COMPLETION, SYSTEM RECORD OF INSPECTION AND TESTING, AND THE "EMERGENCY COMMUNICATIONS SUPPLEMENTARY RECORD OF COMPLETION", TO THE INSPECTOR OF RECORD IOR/DSA, SCHOOL DISTRICT, ARCHITECT AND LOCAL FIRE
- 10. POWER SERVICE TO THE FACP, REMOTE POWER SUPPLIES, AND CENTRAL STATION AUTO DIALER SHALL BE ON A DEDICATED BRANCH CIRCUIT WITH A RED MARKING AND IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL".
- 11. INSTALL ALL WIRING IN WIREMOLD RACEWAY OR CONDUIT, MIN. 3/4" CONDUIT. ALL FIRE ALARM SYSTEM WIRING SHALL BE FPL (FIRE POWER LIMITED) OR FPLP (FIRE POWER LIMITED PLENUM RATED) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE THHN OR THWN AND OSP-RATED FOR UNDERGROUND INSTALLATION.
- 12. CONDUIT AND WIRING SHALL BE PER MANUFACTURERS REQUIREMENTS.
- 13. ALL FIRE ALARM COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICES/EQPT. SHALL EXCEED 20LBS. WITHOUT SPECIAL MOUNTING DETAILS.
- 14. INSTALLATION OF SYSTEM SHALL NOT BE STARTED UNTIL COMPLETE SET OF CONSTRUCTION DOCUMENTS (WITH DEVICE TYPES AND LISTINGS) HAVE BEEN REVIEWED AND APPROVED BY DSA.
- 15. A STAMPED SET OF APPROVED PLANS SHALL BE ON THE JOB SITE AT ALL TIMES AND SHALL BE USED FOR
- 16. ANY DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND ARCHITECT/ENGINEER OF RECORD.
- 17. THE CONTRACTOR SHALL INSTALL AND ADJUST ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
- 18. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1 FOOT FROM FIRE SPRINKLER HEADS OR 3 FEET FROM ANY SUPPLY DIFFUSER. IN AREAS OF CONSTRUCTION OR POSSIBLE DAMAGE /CONTAMINATION, INSTALLED DEVICES SHALL BE COVERED UNTIL AREA IS READY TO BE TURNED OVER TO THE OWNER.
- 19. PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE ALARM DEVICE. DO NOT SPLICE WIRE. THERE MUST BE AT LEAST 6" OF WIRE LEAD FROM THE BOX TO THE DEVICE. ALL BOXES TO BE SIZED PER CEC FOR PROPER VOLUME WITH INSTALLED WIRING AND DEVICES.
- 20. SUPERVISING STATION: AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72, AS AMENDED BY CFC CHAPTER 80. THE SUPERVISION STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011.
- 21. A DOCUMENTATION CABINET SHALL BE INSTALLED ADJACENT TO THE FACP IN THE MAIN ELECTRICAL ROOM (NFPA 72, 7.7.2.1). SPACE AGE ELECTRONICS INC, ACERBOX FAD SERIES (#SSU00685 OR EQUAL).
- 22. ALL RECORD DOCUMENTATION SHALL BE STORED IN THE DOCUMENTATION CABINET (NFPA 72, 7.7.2.3): PROVIDE NAMEPLATE "FIRE ALARM SYSTEM RECORD DOCUMENTS" (NFPA 72, 7.7.2.5).
- 23. FIRE ALARM MANUAL PULLSTATIONS SHALL MEET THE CALIFORNIA ACCESSIBILITY REQUIREMENTS OUTLINED IN THE CBC ("CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE TO ACTIVATE THE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS OF FORCE". REFER TO DSA ACCESSIBILITY STAFF FOR QUESTIONS OR CLARIFICATION.)
- 24. ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM SECTION.
- 25. MICROPHONES ASSOCIATED WITH EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVAC) SHALL BE ACCESSIBLE FOR USE, INSTALLED IN COMPLIANCE WITH CBC SECTIONS 11B-305 AND 11B-308.

SEQUENCE OF OPERATION

- 1. MANUAL PULL STATION WHEN A PULL STATION IS PULLED, IT SHALL ANNUNCIATE AN ALARM AT THE FACP. ALARM SHALL ACTIVATE ALL AUDIO AND VISUAL DEVICES THROUGHOUT THE CAMPUS.
- 2. SMOKE AND HEAT DETECTORS WHEN A SMOKE OR HEAT DETECTOR IS ACTIVATED, IT SHALL ANNUNCIATE AN ALARM AT THE FACP. ALARM SHALL ACTIVATE ALL AUDIO AND VISUAL DEVICES THROUGHOUT THE CAMPUS.
- 3. ANY BUILDING POWER FAILURE- IF THE BUILDING LOSES POWER, THE FAILURE SHALL SHOW UP AS A TROUBLE SIGNAL ON THE FACP. THE SYSTEM SHALL STAY ACTIVE ON BATTERY BACK-UP POWER IN ACCORDANCE WITH THE STATE FIRE CODE.
- 4. SYSTEM SHALL INDICATE TROUBLE ALARMS FOR ALL SYSTEM FAULTS (i.e. GROUND FAULTS, SHORTS, OPEN CIRCUITS, BATTERY DISCONNECT, ETC.).
- 5. UPON ALARM CONDITION, AUTO DIALER TO NOTIFY THE SUPERVISING STATION, AND AUTHORIZED SCHOOL PERSONNEL TO NOTIFY THE FIRE DEPARTMENT AND INITIATE EVACUATION OF STUDENTS AND FACULTY AS PER THE SCHOOL'S EVACUATION PLAN.
- 6. UPON TROUBLE CONDITION, AUTO DIALER TO NOTIFY THE SUPERVISING STATION, AND AUTHORIZED SCHOOL PERSONNEL TO NOTIFY AUTHORIZED TECHNICIAN TO CORRECT THE TROUBLE CONDITION.

FIRE ALARM EQUIPMENT LIST						
		MANUFACTURER	CSFM LISTING			
SYMBOL	DESCRIPTION	& MODEL NUMBER	NUMBER			
FAVCP	FIRE ALARM CONTROL PANEL	NOTIFIER NFS2-640	7165-0028:0243			
	WITH (2) SLC LOOPS, DIGITAL VOICE COMMANDER (DVC-EM),					
	AMPLIFIER, NCA-2, MIC, UDACT & OTHER MISC MODULES/CARDS.					
	ENCLOSURE SIZE PER MFR RECOMMENDATION					
FAVEP	FIRE ALARM VOICE EXPANDER PANEL	NOTIFIER ACPS-610	7315-0028:0248			
	WITH DAA-5070 REMOTE AMPLIFIER	W/ CABINET				
F	ADDRESSABLE MANUAL PULLSTATION	NOTIFIER NBG-12LX	7150-0028:0199			
M	ADDRESSABLE MONITOR MODULE	NOTIFIER FMM-1	7300-0028:0219			
(5)	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR	NOTIFIER FSP-951	7272-0028:0503			
ср	ADDRESSABLE FIXED TEMPERATURE HEAT DETECTOR (135F)	NOTIFIER FST-951	7270-0028:0502			
	IN CONCEALED SPACE WITH REMOTE INDICATOR #FG-01-042					
-	ADDRESSABLE DETECTOR BASE	NOTIFIER B300-6	7300-1653:0109			
	VISUAL STROBE, WALL MOUNT, SELECTABLE CANDELA	SYSTEM SENSOR SRL	7125-1653:0504			
Sp	UL 1971 PUBLIC MODE NOTIFICATION		15cd			
			30cd			
			75cd			
			110cd			
	COMBINATION VISUAL STROBE AND SPEAKER (1 WATT),	SYSTEM SENSOR SPSRL	7320-1653:0505			
VÞ	WALL MOUNT, SELECTABLE CANDELA		15cd			
	UL 1971 PUBLIC MODE NOTIFICATION, VISUAL DEVICE		30cd			
			75cd			
			110cd			
	EXTERIOR AUDIBLE SPEAKER (1 WATT) WITH	SYSTEM SENSOR SPRK	7320-1653:0201			
S ₫	WEATHER-PROOF BACKBOX					
	DOCUMENTATION CABINET	SPACE AGE ELECT.	7300-0553:0110			
		SSU00672				
	GSM DIGITAL ALARM COMMUNICATOR WITH 7AH BATTERIES	HONEYWELL IPGSM-4G	7300-1645:0199			

NOTE:

DETECTOR SUBSCRIPTS:

"cp" - DETECTOR IN ACCESSIBLE CEILING SPACE AND WITHIN 36" OF PEAK WITH REMOTE INDICATOR #FG-01-042

INSTALLED ON CEILING DIRECTLY BELOW THE DETECTOR. PROVIDE DETECTOR ADDRESS LABEL ON THE INDICATOR.

FIRE ALARM WIRING LEGEND DESCRIPTION CABLING

L	TAG	DESCRIPTION	CABLING
l	Α	INITIATION CIRCUIT	(2) #16 TWISTED/UNSHIELDED
l	В	STROBE NOTIFICATION CIRCUIT(S)	(2) #12 THHN/THWN
L	С	SPEAKER NOTIFICATION CIRCUIT(S)	(2) #16 TWISTED/SHIELDED
l	DAL	DIGITAL AUDIO LOOP	6-STR, SM FIBER OPTIC, OSP RATED
4	1		
	1		
	1		
			1

NOTE:
CONTRACTOR SHALL VERIFY EXACT CABLE/WIRE TYPES WITH SYSTEM MANUFACTURER PRIOR TO ROUGH-IN.
INSTALL WIRING IN WIREMOLD RACEWAYS (IN FINISH AREAS, I.E. CLASSROOMS, OFFICES, HALLWAYS, ETC.)
AND IN 3/4" CONDUIT MIN. (IN UTILITY/STORAGE ROOMS).

FIRE ALARM SYSTEM DESCRIPTION

- 1. THE FIRE ALARM SYSTEM SHALL BE AN AUTOMATIC ADDRESSABLE SYSTEM WITH STYLE 4, CLASS B WIRING FOR IDC'S, NAC'S, AND SLC'S WITH EMERGENCY VOICE / ALARM COMMUNICATIONS.
- PROVIDE COMPLETE CROSS TRIP CONNECTIONS, PROGRAMMING, AND ALL NECESSARY DEVICES FOR COMPLETE SYSTEMS INTEGRATION WITH THE EXISTING FACP.
- 3. CIRCUIT PATHWAY SURVIVABILITY SHALL BE LEVEL 1.
- 4. PROVIDE AND INSTALL NEW EQUIPMENT, DEVICES AND REQUIRED MODULES AND PROVIDE CONNECTIONS COMPLETE FOR A FULLY FUNCTIONING NETWORKED FIRE ALARM SYSTEM.
- 5. THE NAME OF THE SPECIFIC PERSON RESPONSIBLE FOR THE SYSTEM DESIGN IS ALVIN CHU (O'MAHONY
- 6. SYSTEM INSTALLATION SHALL BE BY A LICENSED ELECTRICAL OR FIRE ALARM CONTRACTOR WITH A CALIFORNIA C-10 LICENSE, REGULARLY ENGAGED IN THE INSTALLATION AND COMMISSIONING OF FIRE ALARM SYSTEMS TO NFPA 72 STANDARDS. FIRE ALARM CONTRACTOR SHALL BE FACTORY-AUTHORIZED OF THE SPECIFIED SYSTEM MANUFACTURER. INSTALLING CONTRACTOR'S NAME AND CONTACT INFORMATION SHALL BE LISTED IN THE NFPA CLOSE OUT DOCUMENTATION AT COMPLETION OF PROJECT.

FIRE ALARM SCOPE OF WORK

- . TERMINATE EACH NOTIFICATION LOOP TO THE FAVCP OR FAEP OR FARA AS SHOWN ON PLANS AND
- 2. TERMINATE EACH INITIATION LOOP AT THE MAIN FIRE ALARM CONTROL PANEL AS SHOWN.
- 3. PROVIDE A COMPLETE NETWORK FIRE ALARM SYSTEM, INCLUDING REMOTE POWER SUPPLY TERMINAL CABINETS, EXPANDER PANELS, AMPLIFIERS, MICS, OUTLETS, DEVICES AND WIRING FOR THE FACILITY AS SHOWN.
- 4. REMOVE ALL EXISTING FIRE ALARM DEVICES, WIRING & SURFACE RACEWAYS/OUTLET BOXES. PROVIDE BLANK COVERPLATE ON FLUSHED OUTLET BOXES TO REMAIN.
- 5. PROVIDE NEW WIREMOLD SURFACE RACEWAYS AND ACCESSORIES IN ALL FINISH AREAS (I.E., CLASSROOMS, OFFICES, MPR, LIBRARY, ETC.). RIGID CONDUIT OR EMT ARE NOT ACCEPTABLE IN THE FINISH AREAS.
- FINAL SYSTEM PROGRAMMING SHALL BE DONE BASED ON ACTUAL PHYSICAL ROOM NAMES AND NUMBERS USED AT THE SITE (IF DIFFERENT FROM THE ROOM NAMES OR NUMBERS SHOWN ON THE APPROVED PLANS).
- 7. THE CONTRACTOR SHALL CONTACT THE LOCAL FIRE DEPARTMENT AND/OR EMERGENCY COMMUNICATIONS AUTHORITY TO OBTAIN LOCAL TESTING AND ACCEPTANCE CRITERIA FOR EMERGENCY RADIO RESPONDER SYSTEMS. REFER TO SECTION 28 3100-1.02 SCOPE OF WORK, FOR TESTING AND DOCUMENTATION REQUIREMENTS.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 01-120920 INC:

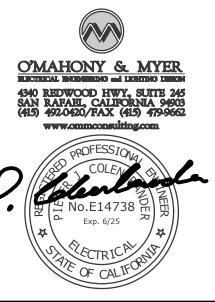
REVIEWED FOR SS FLS ACS DATE: 8/22/2023



ARCHITECTS

Main:
636 Fifth Street, Santa Rosa, CA 95404

East Bay: 55 Harrison Street, Suite 525, Oakland, CA 94607 (707) 576-0829



ALTERATIONS TO BUILDING A AT UNIVERSITY ES @ LA FIESTA

HVAC AND LIGHTING REPLACEMENT

8511 LIMAN WAY ROHNERT PARK, CA 94928

COTATI-ROHNERT
PARK UNIFIED
SCHOOL DISTRICT

SA	APP N	Ο.	01-12	0920	

ARCH PROJECT NO: 2173.00

DRAWN BY:

DRAWING SCALE:

PTN: 73882-47 FILE NO: 49-17

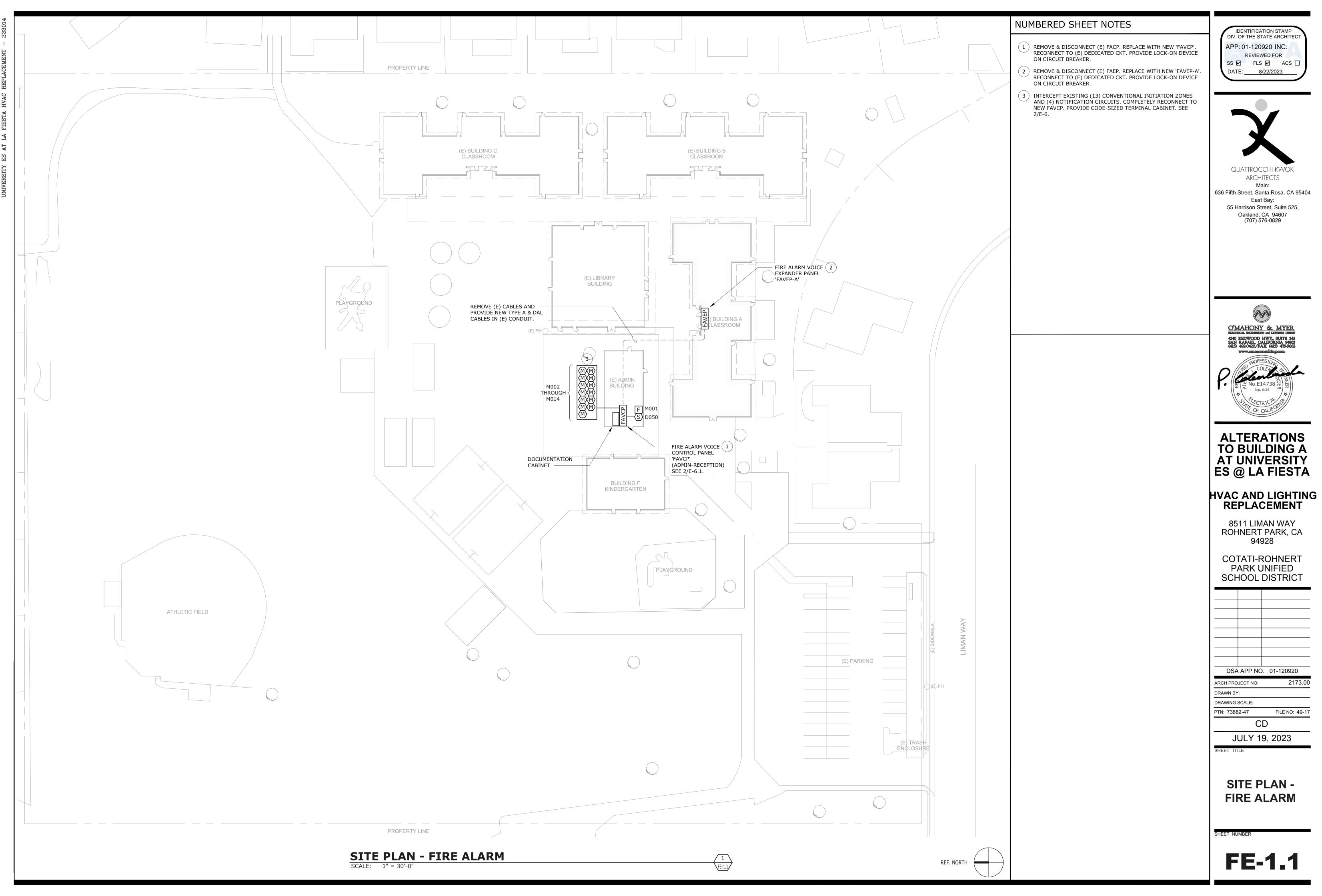
JULY 19, 2023

SHEET TITLE

FIRE
COMPONENTS
LIST, NOTES &
DETAILS

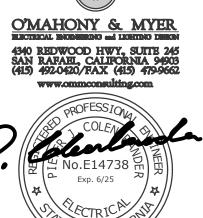
SHEET NUMBER

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636 Fifth Street, Santa Rosa, CA 95404



ES @ LA FIESTA

DSA APP NO. 01-120920						

2173.00

FILE NO: 49-17

NUMBERED SHEET NOTES

1 NOT USED.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

APP: 01-120920 INC:

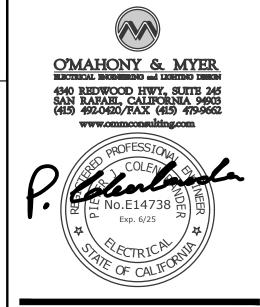
REVIEWED FOR

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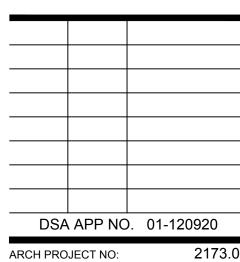


ALTERATIONS TO BUILDING A AT UNIVERSITY ES @ LA FIESTA

HVAC AND LIGHTING REPLACEMENT

8511 LIMAN WAY ROHNERT PARK, CA 94928

COTATI-ROHNERT PARK UNIFIED SCHOOL DISTRICT



DRAWN BY:

DRAWING SCALE:

PTN: 73882-47 FILE NO: 49-17

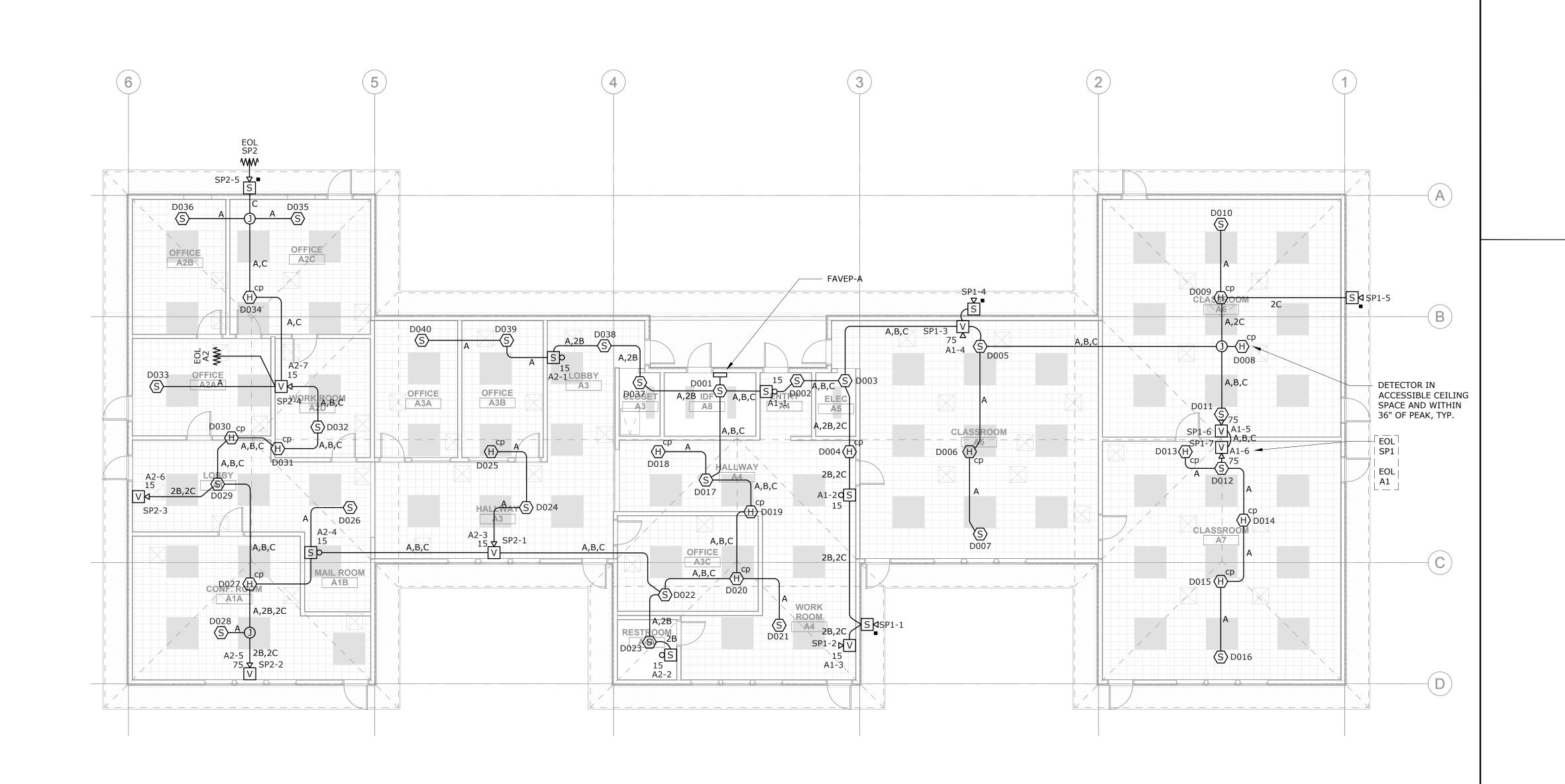
JULY 19, 2023

SHEET TITLE

FLOOR PLAN -FIRE ALARM

SHEET NIIMB

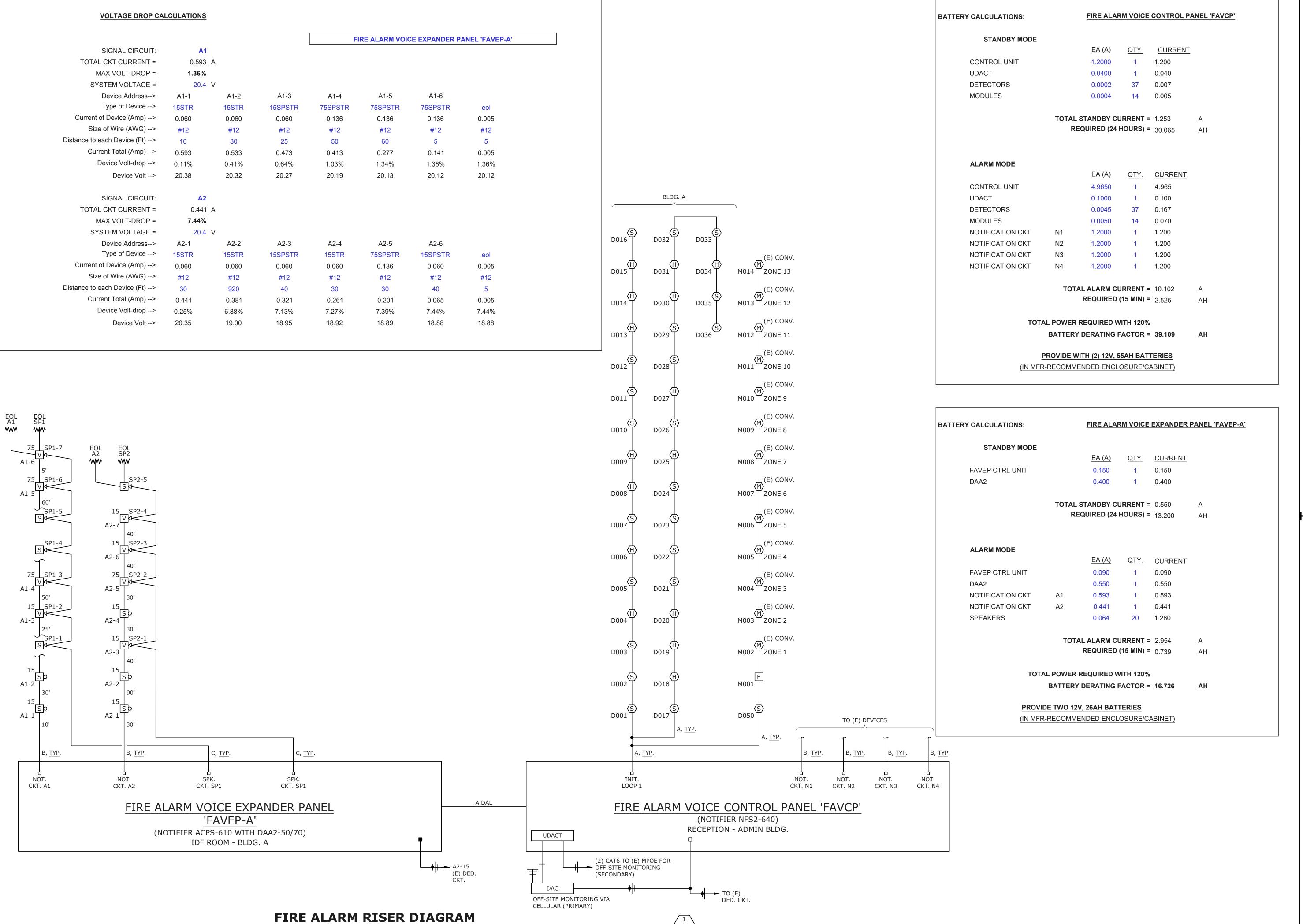
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FLOOR PLAN - FIRE ALARM

SCALE: 1/8" = 1'-0"





IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

APP: 01-120920 INC:

REVIEWED FOR

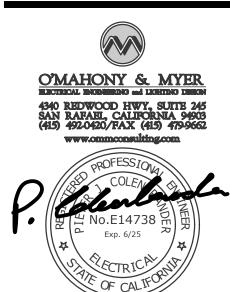
SS FLS ACS DATE: 8/22/2023



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55 Harrison Street, Suite 525, Oakland, CA 94607 (707) 576-0829

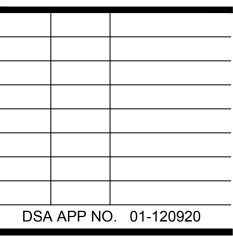


ALTERATIONS TO BUILDING A AT UNIVERSITY ES @ LA FIESTA

HVAC AND LIGHTING REPLACEMENT

8511 LIMAN WAY ROHNERT PARK, CA 94928

COTATI-ROHNERT PARK UNIFIED SCHOOL DISTRICT



ARCH PROJECT NO: 2173.00

DRAWN BY:

DRAWING SCALE:

PTN: 73882-47 FILE NO: 49-17

CD JULY 19, 2023

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HEET TITLE

RISER
DIAGRAM &
CALCULATIONS
- FIRE ALARM

SHEET NUMBER

FE-5.1

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Date Signed: 2023-04-24

(707) 576-0829

Generated Date/Time:

Report Version: 2022.0.000

Schema Version: rev 20220101

Quattrocchi Kwok Architects

636 Fifth Street

Santa Rosa CA 95404

Registration Number:

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

n Detail D	U-factor was	Roof Type & Frame Materia	Frame Spacing Depth	insulation per	1 .	Performance	Thermal	U-factor pe	r Design	Net Area ⁴ ft ²	Results in this table are automatically calculated from data input and calculations in Tables F through L. Note: If any cell on this table says "COMPLIES to Table D. Exceptional Conditions for guidance or see the applicable table referenced below.						ble says "COMPLIES with E	า Exceptional Condit
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F	Roof Type		Total Area of Roo	of Type (ft²)	Area-we	ighted U-factor	for Roof Type		_	Area-Weighted	This table includes rema	rks made by the permit ap	oplicant to the Autho	rity Having Jurisdict	ion.			
)ypc (.c y	Require		Designed	(Calculation Opt	ion								
	Framed		381		0.055		0.034				F. ROOF ASSEMBLY SO	CHEDULE						
Total fo	r all Roof Types	::	381		0.055		0.034		COMPLIES			compliance for prescriptiv	ve roof assembly req	uirements in 140.3(d	a)1B/ 170.2(a)1B fo	r new construction, .	141.0(a)/ 180.1 for addition	ns, or 141.0(b)2B
											for alterations,				. []			
D ROOFII	NG MATERIAL	(COOL ROOF)									01 Indicat	te roof types included in t	he project: 🛛 Fran	ned Framed	II IIVIPV	☐ Span Deck &	Concrete	els 🔲 Metal Buil
	ot apply to this										5			I	illiny			
		p. 0,000.									Framed Roof Assemblie							
											01		nclude Framed Roof	Assemblies in Area-	Weighted Average			
											02	03	04			05		06
tion Numbe	er:				Generated Date/	Гime:		Do	cumentation So	ftware: EnergyPro	Registration Number:			Gener	rated Date/Time:		Docu	mentation Software
CALIFORNIA											STATE OF CALIFORNIA							
ope Con	nponent A _l	pproach						CAL	IFORNIA ENER	GY COMMISSION	Envelope Compo	nent Approach					CALIFO	ORNIA ENERGY CO
ATE OF CON	/IPLIANCE									NRCC-ENV-E	CERTIFICATE OF COMPLIAN	NCE						
ame:		Alterations to	Building A Univer		La Fiesta Report F					(Page 6 of 6)	Project Name: Alterations to Building A University Elementary at La Fiesta Report Page:							
ddress:				8511 Li	man Way Date Pre	epared:				4/24/2023	Project Address:			8511 Liman W	ay Date Prepared:			
		DECLARATION S					0	0111			N. DECLARATION OF F	REQUIRED CERTIFICATE	S OF ACCEPTANCE					
		Compliance do	cumentation is	s accurate and				UM_	0.	Distribution of his Core Pillanka		s required for this project.						
ation Author kuhn	Name:				Documen	tation Author Signa	iture:	Sea	an Plikuhn	Digitally signed by Sean Plikuhn DN: cn=Sean Plikuhn, o=SOLDATA Energy Consulting, email=sean@sokdata.com, c=US	There are no wheat joins.	3 required for tims project.	•					
- Cullii					Signature	Date:				mail=sean@soldata.com, c=US Date- 2023.04.24.15-42-3307'00'								
A Energy Co	onsulting				4/24/202						O. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION							
					CEA/ HER	S Certification Ident	tification (if applicable)):			There are no forms required for this project.							
8579																		
^{/zip:} osa CA 954	07				Phone: 707-54!	5-4440												
		ARATION STATE	MENT			-												
		jury, under the laws o		nia:														
	•	his Certificate of Com	•				danaisiad an abia Canais	:										
								icate of Compliance (res on this Certificate of Co										
of Title 24,	Part 1 and Part 6 of	the California Code of	of Regulations.															
		r system design featu tted to the enforcem				with the informatio	ii provided on other ap	pplicable compliance do	cuments, workshe	ets, calculations,								
								made available to the en		for all applicable								
Inspections le Designer N		a completed signed o	opy or this Certificat	e or compliance is re		a with the documer		vides to the building ow	пет ат оссирансу.									

Documentation Software: EnergyPro

Compliance ID: EnergyPro-1004-0423-0776

Report Generated: 2023-04-24 15:39:51

STATE OF CALIFORNIA

B. PROJECT SCOPE

CERTIFICATE OF COMPLIANCE

roof material only in Table G.

C. COMPLIANCE RESULTS

Envelope Component Approach

¹FOOTNOTE: Doors that are more than 25% glass in area are considered Glazed Doors and should be documented on table K with fenestration.

²Roof recovers and replacements must also check "Roof Assembly" box and document compliance with insulation requirements in Table F. Roof recoats may document compliance with

Project includes unconditioned enclosed space(s) > 5,000 ft² under a roof with a ceiling height of at least 15 ft.¹ envelope may be designed to comply with the provisions of that occupancy e Results ■ Convention Center ■ Office ■ All Other Occupancies FOOTNOTE: Enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15 ft in climate zones 2 through 15 are required to meet the minimum daylighting requirements LIES defined in 140.3(c)/ 170.2(b). Compliance with 140.3(c)/ 170.2(b) is documented in Table L. This is the only prescriptive requirement which applies to unconditioned spaces. B. PROJECT SCOPE This table specifies project envelope components within the permit application demonstrating compliance using the prescriptive paths outlined in 140.3/170.2 and 141.0(a)1/180.1 and 141.0(b)1 and 2/180.2 for additions and alterations. My project consists of (check all that apply) Component Types New Construction or Newly Conditioned Space \Box One or more enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15ft Floors Addition of conditioned space 2Biii/ 180.2 Walls ☐ One or more enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15ft Addition is <=700 ft² Floors uilding Addition is >700 ft² ☐ Alteration of conditioned space ⊠ Roof Assembly Walls One or more enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15ft and lighting system installed for the first time Floors Material² re: EnergyPro Registration Number: Generated Date/Time: STATE OF CALIFORNIA **Envelope Component Approach** COMMISSION NRCC-ENV-E CERTIFICATE OF COMPLIANCE (Page 5 of 6) Alterations to Building A University Elementary at La Fiesta Report Page: 4/24/2023 8511 Liman Way Date Prepared: Project Address: H. WALL ASSEMBLY SCHEDULE This table demonstrates compliance with prescriptive wall assembly requirements in 140.3(a)/ 170.2(a) for new constructions, 141.0(a)/ 180.1 for additions and 141.0(b)1B/ 180.2 for Framed ☐ Mass (new only) ☐ Concrete Sandwich Panel (new only) ☐ SIPS ☐ ICF (new only) 01 Indicate wall types included in the project:¹ Metal Panels ☐ Metal Building ☐ Spandrel/ Curtain Wall ☐ Straw Bale ☐ Log Home (new only) ¹ FOOTNOTES: Wall types indicated above as "(new only)" do not have Title 24, Part 6 requirements for alterations. New construction and additions do have requirements and should be clicked above and compliance demonstrated within this table. I. FLOOR ASSEMBLY SCHEDULE This section does not apply to this project. J. EXTERIOR DOOR SCHEDULE This section does not apply to this project. K. FENESTRATION AND GLAZED DOOR SCHEDULE This section does not apply to this project. L. DAYLIGHT IN LARGE ENCLOSED SPACES M. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Form/Title NRCI-ENV-01-E - Must be submitted for all buildings Documentation Software: EnergyPro Generated Date/Time: Generated Date/Time: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-1004-0423-0776 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Report Generated: 2023-04-24 15:39:51 Schema Version: rev 20220101

CALIFORNIA ENERGY COMMISSION

NRCC-ENV-E

(Page 2 of 6)

STATE OF CALIFORNIA

Project Name:

Project Address:

03 Climate Zone

CERTIFICATE OF COMPLIANCE

A. GENERAL INFORMATION

Project Location (city)

Envelope Component Approach

This document is used to demonstrate compliance with mandatory requirements in 110.8(g) and 120.7(b)/160.1 for newly constructed nonresidential, hotel/ motel, multifamily and mixed-use buildings, and 141.0(b)1/ 180.2 for alterations, related to roof, wall and floor assemblies. It is also used to demonstrate compliance with prescriptive requirements in 140.3/

05 # of Stories (Habitable Above Grade)

07 Total Unconditioned Floor Area (ft²)

06 Total Conditioned Floor Area (ft²)

170.2 for newly constructed buildings, and 141.0/ 180.1/ 180.2 for additions and alterations, related to roof, wall, floor, door, fenestration and daylighting requirements.

Alterations to Building A University Elementary at La Fiesta Report Page:

8511 Liman Way Date Prepared:

Rohnert Park

94928

Occupancy Types Within Project: (select all that apply): If one occupancy

constitutes >= 80% of the conditioned floor area, the entire building

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 01-120920 INC: REVIEWED FOR SS ☑ FLS ☑ ACS □ DATE: __

CALIFORNIA ENERGY COMMISSION

6287

Exterior Opaque Doors

Fenestration/ Glazed Doors¹

Exterior Opaque Doors

Fenestration/ Glazed Doors¹

Fenestration

Documentation Software: EnergyPro

CALIFORNIA ENERGY COMMISSION

Documentation Software: EnergyPro

Compliance ID: EnergyPro-1004-0423-0776

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NRCC-ENV-E

(Page 4 of 6)

4/24/2023

Exterior Opaque Doors NA. for Alts.

NRCC-ENV-E

(Page 1 of 6)

4/24/2023

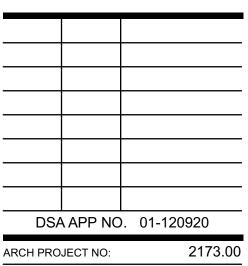


ALTERATIONS TO BUILDING A **AT UNIVERSITY** ES @ LA FIESTA

HVAC REPLACEMENT

8511 LIMAN WAY ROHNERT PARK, CA 94928

COTATI-ROHNERT PARK UNIFIED SCHOOL DISTRICT



DRAWN BY: DRAWING SCALE: PTN: 73882-47 FILE NO: 49-17 CD

JULY 19, 2023

TITLE 24

Report Version: 2022.0.000

Schema Version: rev 20220101

Compliance ID: EnergyPro-1004-0423-0775

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

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Compliance ID: EnergyPro-1004-0423-0775

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Schema Version: rev 20220101

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 01-120920 INC:

REVIEWED FOR
SS FLS ACS
DATE: 8/22/2023

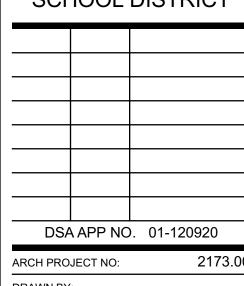


ALTERATIONS TO BUILDING A AT UNIVERSITY ES @ LA FIESTA

HVAC REPLACEMENT

8511 LIMAN WAY ROHNERT PARK, CA 94928

COTATI-ROHNERT PARK UNIFIED SCHOOL DISTRICT



20,1,411101	720020
RCH PROJECT NO:	2173.00
RAWN BY:	
RAWING SCALE:	
TN: 73882-47	FILE NO: 49-17
CD	
	-

JULY 19, 2023

TITLE 24

SHEET NUMBER

Compliance ID: EnergyPro-1004-0423-0775 Report Generated: 2023-04-24 15:39:51

T-1.2

ATE OF CALIFORNIA Mechanical Systems	CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA Mechanical Sys					CALIFOR	RNIA ENERGY COMMISSION
ERTIFICATE OF COMPLIANCE roject Name: Alterations to Building A University Elementary at La Fiesta Report Page: roject Address: 8511 Liman Way Date Prepared:	NRCC-MCH-E (Page 12 of 19) 4/24/2023	CERTIFICATE OF COMPLI Project Name: Project Address:		Building A University Element	ary at La Fiesta Report 11 Liman Way Date Pr			NRCC-MCH-E (Page 11 of 19) 4/24/2023
SYSTEM CONTROLS FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas applications.	nces, wood stoves are not required to	H. FAN SYSTEMS & A	erving spaces with design back	kground noise goals below N	C35			
ave setback thermostats.		at that airflow. No mo	ore than 10 percent of the des	ign load served by the equip	-	50 percent of design airflow and use d loads.	no more than 30 per	cent of the design wattage
VENTILATION AND INDOOR AIR QUALITY his table is used to demonstrate compliance with mandatory ventilation requirements in 120.1 120.2(e)3B 140.4(p) and 140.4(q) for all nonreside :t24refnolink/]160.2, 160.3(a)3D, 170.2(a)4N, 170.2(a)4O for high-rise residential occupancies. For alterations, only ventilation systems being alt	· · · · · · · · · · · · · · · · · · ·	01	EAT RECOVERY 140.4(q), 17	70.2(c)40 04 05	06	07 08	09	10 11
pplication need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plan on a spreadsheet.		For System	Hours of	Danier Cornels Outdoor	% Outdoor Air	Exemptions to Exhaust Air Exhaust Air	Tura Of Haat	Energy
01	completing this table.	Fan System Name	Qty Operation per Year	Design Supply Outdoo Airflow Rate Airflow	r at Full Design		Type Of Heat Recovery Rating Reco	equired Recovery
02	ventilation rates per 120 1(c)2	Fan Energy Index (F	=EI)			170.2(c)40		
onresidential and Hotel/ Motel Multifamily Common Use Ventilation Systems 04 05 06	07		01 Name or Item Tag		02 FEI Exception		03 FEI	
System Design OA CFM 1694 System Design 0	Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 ²	I. SYSTEM CONTROL			TEL Exception			
08	Provided 16		lemonstrate compliance with for altered space conditioning	•	and 120.2 and presc	criptive controls in 140.4(f) and (n), 1	70.2(c)4D 170.2(c)4L	or requirements in
Mechanical Ventilation Required per 120.1(c)3 ³ & 160.2(c)3 Exh. Vent per 120.1(c)4 & 160.2(c)4 DC	V or Sensor Controls per 120.1(d)3,	01	02 03 Conditi		05	06 07 Isolation	08	09
Occupancy Type ⁴ Conditioned # of Shower heads/ people ⁵ Required Min OA CFM CFM Conditioned # of Shower heads/ people ⁵ Required Min OA CFM	0.1(d)5, and 120.1(e)3 ⁶ 160.2(c)5D 160.2(c)5E 160.2(c)5D	System Name	System Floor A	Area 110.2(b) & (c) ¹ , 120 erved 160.3(a)2A or 141.0(b		Zone Demand Respons Controls 110.12 120.2(b) (120.2(g) & 160.3(a)2B	I IAMU KACAT I	Window Interlocks per 140.4(n) & 170.2(c)4D
FC A1A Zone Assembly- multiuse 409 204.5 0 0	DCV NA: Not required per \$120.1(d)3 NA: Not required	VRF-A1	Multi-zone w/ DDC to <= 25,00	00 ft ² Setback	Auto Timer Switch	160.3(a)2F NA: Serves < DR Tstat per 110.3	NA: Alteration	NA: Alteration Project
	space type	SHP-1 / SFC-A8		00 ft ² Setback	NA: 7 day per 120.2(e)1	NA: Single DR Tstat per 110.2	NA: Alteration	NA: Alteration Project
Registration Number: Generated Date/Time:	Documentation Software: EnergyPro	Registration Number:			Generated Date/	/Time·	Docum	entation Software: EnergyPro
	ompliance ID: EnergyPro-1004-0423-0775 Report Generated: 2023-04-24 15:39:51	· ·	ciency Standards - 2022 Nonresio	dential Compliance	Report Version: 2 Schema Version:		Compliance ID	D: EnergyPro-1004-0423-0775 herated: 2023-04-24 15:39:51
TATE OF CALIFORNIA Mechanical Systems ERTIFICATE OF COMPLIANCE	CALIFORNIA ENERGY COMMISSION NRCC-MCH-E	STATE OF CALIFORNIA Mechanical Sys CERTIFICATE OF COMPLI					CALIFOR	RNIA ENERGY COMMISSION NRCC-MCH-E
roject Name: Alterations to Building A University Elementary at La Fiesta Report Page: roject Address: 8511 Liman Way Date Prepared:	(Page 15 of 19) 4/24/2023	Project Name: Project Address:		Building A University Element	ary at La Fiesta Report 11 Liman Way Date Pr			(Page 14 of 19)
·					<u>'</u>			
VENTILATION AND INDOOR AIR QUALITY	NA: Not required per	J. VENTILATION ANI	D INDOOR AIR QUALITY				DCV	NA: Not required per
IDF Zone All others 102 0 0 0	DCV \$120.1(d)3 NA: Not required space type	FC A4 Zone	Office space	1608	241.2	2 0 0	Occ Sensor	§120.1(d)3 NA: Not required space type
17 Total System Required Min OA CFM 0 18 Ventilation for this System FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system Air filtration requirements apply to the following three system types per 120.1(c)1A: space conditioning systems utilizing ducts to supply air to oc		FC A5 Zone	Classroom (ages 5-18)	918	348.8	0 0	DCV Occ Sensor	NA: Not required per §120.1(d)3 NA: Not required
rstems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventila ccupiable space.	tion systems providing outside air to						DCV	space type NA: Not required per §120.1(d)3
Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence. See Standards Tables 120.1-A and 120.1-B.		FC A6 Zone	Classroom (ages 5-18)	895	340.1	0 0	Occ Sensor	NA: Not required space type
For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code. 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 sensing.		FC A7 Zone	Classroom (ages 5-18)	898	341.2	2 0 0	DCV	NA: Not required per §120.1(d)3
kamples of spaces which require lighting occupancy sensors include offices 250ft ² or smaller, multipurpose rooms less than 1,000 ft ² , classrooms, and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted l Multifamily Dwelling Unit Ventilation Systems							Occ Sensor	NA: Not required space type
Check the box if the system is using continuous ventilation to meet the ventilation requirements per 160.2(b)2Aivb2 19 20 21 22 23 24 25 26	27	17 Total St	oystem Required Min OA CFM	05	1694	18 Ventilation for the	is System Complies?	Yes 07
Mechanical Ventilation Required per 120.1(b) & 160.2(b)2 Ventilation per Design		System Name	SHP-1 / SFC-A8	System Design OA CFM Airflow ¹	1 () 1 '	em Design fer Air CFM	1	r 120.1(c) 141.0(b)2 and 60.2(c)21 ²
Snace Name	Filtration per 120.1(c) & 160.2(b)1	08	09	10 11	12 13	14 15		Provided 16
28 Is this a balanced system ⁴ 29 Meeting Outside Air Requirements?		Space Name	Mechanical Ventilation	n Required per 120.1(c)3 ³ & Conditioned # of Showe		Exh. Vent per 120.1(c)4 & 160.2(c)4	—	Controls per 120.1(d)3, I 120.1(e)3 ⁶ 160.2(c)5D
FOOTNOTES: Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedent Kitchen range hood will be verified per NA7.18.1 to confirm model is rated by HVI or AHAM.	e.	or Item Tag	Occupancy Type ⁴	Floor Area heads/ (ft²) toilets	# of Require people ⁵ Require Min O	A Min CEM Provided per Design		c)5E 160.2(c)5D
Air filtration requirements apply to the following three system types per 120.1(c)1A: space conditioning systems utilizing ducts to supply air to oc stems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventila								
ccupiable space.								
Registration Number: Generated Date/Time: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 C	Documentation Software: EnergyPro ompliance ID: EnergyPro-1004-0423-0775	Registration Number:	ciency Standards - 2022 Nonresio	dential Compliance	Generated Date/ Report Version: 2			entation Software: EnergyPro b: EnergyPro-1004-0423-0775
Schema Version: rev 20220101	Report Generated: 2023-04-24 15:39:51	CA Building Energy Eine	ciency Standards - 2022 Nomesic	dential compliance	Schema Version:			nerated: 2023-04-24 15:39:51
ate of california Λechanical Systems	CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA						
ERTIFICATE OF COMPLIANCE roject Name: Alterations to Building A University Elementary at La Fiesta Report Page:	NRCC-MCH-E (Page 18 of 19)	Mechanical Syste					CALIFORI	NIA ENERGY COMMISSION NRCC-MCH-E
roject Address: 8511 Liman Way Date Prepared:	4/24/2023	Project Name: Project Address:		Building A University Elementa	y at La Fiesta Report P 1 Liman Way Date Pre			(Page 17 of 19) 4/24/2023
		<u> </u>						
D. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE	Systems/Spaces To Be Field	L. DISTRIBUTION (DU	UCTWORK and PIPING)		Dwelling U	nits: Total duct leakage of duct syste	m shall not exceed 12	%
Form/Title RCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH	Verified -07-A VRF-A1: 24T; SHP-1/SFC-A8:					tem to outside shall not exceed 6% p systems?		
upply Fan VFD Acceptance (if applicable) since testing activities overlap. RCA-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes'. If Constant Volume Single Zone HVA	1T; C SHP-1/SFC-A8: 1T;				Duct leal	kage testing per CMC Section 603.10 systems?	.1 required for these	Yes
ystems are included in the scope, permit applicant should move this form to "Yes". RCA-MCH-11-A Automatic Demand Shed Controls	VRF-A1: 24T; SHP-1/SFC-A8:	11 12		e project includes only duct s vides conditioned air to an o	<u> </u>	thcare facilities a constant volume, single zone, spac	e-conditioning system	1.
	1T;	13 14		tioning system serves less th urface area of the ducts is m		itioned floor area. total surface area of the entire duct	system:	
DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION there are no NRCV forms required for this project.		15	The scope of the			em, which is constructed, insulated c documented to have been previously		
. MANDATORY MEASURES DOCUMENTATION LOCATION		16 17	and diagnostic t		ocedures in the Refe	rence Nonresidential Appendix NA2.		
his table is used to indicate where mandatory measures are documented in the plan set or construction documentation. 01	02	18 19		n extension of an existing d	uct system			
	construction document location M-Sheets	20 21		r replacement space condition	oning ducts installed		- 	
		M. COOLING TOWER						
		This section does not ap						
		N. DECLARATION OF	REQUIRED CERTIFICATES	OF INSTALLATION				
		NIDGL 1 10 1 2 1 2	ha anti-nye 16 mm m		Form/Title			
		NKCI-MCH-U1-E - Must	t be submitted for all building	5				
Registration Number: Generated Date/Time:	Documentation Software: EnergyPro							

Registration Number:

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Compliance ID: EnergyPro-1004-0423-0775

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Schema Version: rev 20220101

Mechanical Systems COMMISSION NRCC-MCH-E Page 11 of 19) 4/24/2023 Project Address: H. FAN SYSTEMS & AIR ECONOMIZERS Status Name SFC-A8 Status Component Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance STATE OF CALIFORNIA NRCC-MCH-E **Mechanical Systems** Page 14 of 19) CERTIFICATE OF COMPLIANCE 4/24/2023 . VENTILATION AND INDOOR AIR QUALITY 212 FC A2A Zone Office space FC A2B Zone Office space FC A2C Zone 300 Office space 179 FC A2D Zone Office space FC A3A Zone Office space 180 FC A3C Zone Office space 212 Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance STATE OF CALIFORNIA **Mechanical Systems** CERTIFICATE OF COMPLIANCE Alterations to Building A University Elementary at La Fiesta Report Page: Project Name: ⁴ A balanced ventilation system provides ventilation airflow to each dwelling-unit at a rate equal to or greater than the required minimum rate, but not more than twenty percent. K. TERMINAL BOX CONTROLS This section does not apply to this project. L. DISTRIBUTION (DUCTWORK and PIPING) his table is used to show compliance with mandatory pipe insulation requirements found in 120.3 and mandatory requirements found in 120.4(g) for duct sealing. nsulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service. Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space shall have a Class I or Class II vapor retarder. All penetrations and joints of which shall be sealed. Duct Leakage Testing The answers to the questions below apply to the following duct systems: STATE OF CALIFORNIA Mechanical Systems CERTIFICATE OF COMPLIANCE Alterations to Building A University Elementary at La Fiesta Report Page:

8511 Liman Way Date Prepared Project Name: DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

plans and specifications submitted to the enforcement agency for approval with this building permit application.

umentation Author Name:

SOLDATA Energy Consulting

Santa Rosa CA 95407

Costa Engineers Inc.

Napa CA 94558

851 Napa Valley Corporate Way, Suite D

RESPONSIBLE PERSON'S DECLARATION STATEMENT

rtify the following under penalty of perjury, under the laws of the State of California: The information provided on this Certificate of Compliance is true and correct.

Sean Plikuhn

P.O. Box 8579

Documentation Software: EnergyPro

Compliance ID: EnergyPro-1004-0423-0775 Report Generated: 2023-04-24 15:39:51

Generated Date/Time:

Report Version: 2022.0.000

Schema Version: rev 20220101

CALIFORNIA ENERGY COMMISSION NRCC-MCH-E Alterations to Building A University Elementary at La Fiesta Report Page: (Page 10 of 19) 4/24/2023 8511 Liman Way Date Prepared: System other Zoning system Not Serving Fan System Owelling Units | Airflow (cfm) 140.4-D Allowance Design Compone nt Allowance (watt/cfm) | Power | Power | Asthod Water Gauge | Compone | through (w.g) Component Fan System Electrica Output (kW) New System other Zoning system Not Serving Fan System Site Dwelling Units | Airflow (cfm) cooling Allowance Design Design
Electrical Motor Electrical Water Gauge Compone Allowance through (w.g) Input Nameplate Input Component Power Horsepower Power Method (kW) Base Allowance for system serving spaces <=6 floors away MERV 13-16 Filter upstream of thermal conditioning 0.17 Hydronic/DX cooling coil or heat pump coil Fan System Electrical Fan System Allowance (kW)³ Output (kW) Generated Date/Time: Documentation Software: EnergyPro Report Version: 2022.0.000 Compliance ID: EnergyPro-1004-0423-0775 Schema Version: rev 20220101 Report Generated: 2023-04-24 15:39:51 CALIFORNIA ENERGY COMMISSION NRCC-MCH-E Alterations to Building A University Elementary at La Fiesta Report Page: (Page 13 of 19) NA: Not required pe DCV §120.1(d)3 31.8 NA: Not required Occ Sensor space type NA: Not required per DCV NA: Not required Occ Sensor space type NA: Not required per DCV §120.1(d)3 NA: Not required Occ Sensor space type NA: Not required per DCV §120.1(d)3 26.8 NA: Not required Occ Sensor space type NA: Not required pe DCV §120.1(d)3 NA: Not required Occ Sensor space type NA: Not required pe DCV §120.1(d)3 NA: Not required Occ Sensor space type NA: Not required per DCV §120.1(d)3 31.8 NA: Not required Occ Sensor space type Generated Date/Time: Documentation Software: EnergyPro

Report Version: 2022.0.000

Schema Version: rev 20220101

Signature Date: 2023-04-24

707-545-4440

I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer) The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirem of Title 24, Part 1 and Part 6 of the California Code of Regulations. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations,

5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

2023-04-24

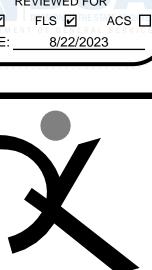
(707) 252-9177

CEA/ HERS Certification Identification (if applicable):

NR/ Common Use: Duct leakage testing shall not exceed 6% per

NA7.5.3 required for these systems?

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 01-120920 INC: REVIEWED FOR SS ☑ FLS ☑ ACS □ DATE:



QUATTROCCHI KWOK ARCHITECTS Main: 636 Fifth Street, Santa Rosa, CA 95404 55 Harrison Street, Suite 525, Oakland, CA 94607 (707) 576-0829 KEVIN CHAPIN LICENSE # C31640 EXP MAY 31, 2025 SIGNED: JULY 19, 2023

ALTERATIONS TO BUILDING A **AT UNIVERSITY** ES @ LA FIESTA

HVAC REPLACEMENT

8511 LIMAN WAY ROHNERT PARK, CA 94928

Compliance ID: EnergyPro-1004-0423-0775

Report Generated: 2023-04-24 15:39:51

CALIFORNIA ENERGY COMMISSION

CALIFORNIA ENERGY COMMISSION

Sean Plikuhn, DN: cn=Sean Plikuhn, Energy Consulting, email=sean@soldata

NRCC-MCH-E

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NRCC-MCH-E

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COTATI-ROHNERT PARK UNIFIED SCHOOL DISTRICT

DSA	APP NO	01-120920

0.0	
TN: 73882-47	FILE NO: 49-17
RAWING SCALE:	
RAWN BY:	
RCH PROJECT NO:	2173.00
DSA APP NO.	01-120920

JULY 19, 2023

TITLE 24

SHEET NUMBER

T-1.3