ABBOTT SCHOOL ELEMENTARY SCHOOL
LYNWOOD UNIFIED SCHOOL DISTRICT

5250 CLARK STREET
LYNWOOD, CA 90262

NON-UTILIZATION OF ASBESTOS MATERIAL

NO ASBESTOS OR ASBESTOS-CONTAINING PRODUCTS SHALL BE USED IN THIS CONSTRUCTION OR IN ANY TOOLS, DEVICES, CLOTHING OR EQUIPMENT USED TO AFFECT THIS CONSTRUCTION.

ASBESTOS AND OR ASBESTOS CONTAINING PRODUCTS SHALL BE DEFINED AS ALL ITEMS CONTAINING BUT NOT LIMITED TO CRYSTALLITE, CROCIDOLITE, AMOSITE, ANTHOPYLLITE, TERMOLITE AND ANTINOLITE.

ANY OR ALL MATERIAL CONTAINING GREATER THAN ONE TENTH OF ONE PERCENT(>.1 %) ASBESTOS SHALL BE DEFINED AS ASBESTOS CONTAINING MATERIAL.

ANY DISPUTES INVOLVING THE QUESTION OF WHETHER OR NOT MATERIAL INSTALLED WITH ASBESTOS-CONTAINING EQUIPMENT WILL BE SETTLED BY ELECTRON MICROSCOPY: THE COST OF ANY SUCH TEST SHALL BE PAID BY THE CONTRACTOR.

ALL WORK OR MATERIALS FOUND TO CONTAIN ASBESTOS OR WORK OR MATERIAL INSTALLED WITH ASBESTOS-CONTAINING EQUIPMENT WILL BE IMMEDIATELY REJECTED AND THIS WORK WILL BE REMOVED AT NO ADDITIONAL COST TO THE DISTRICT.

DECONTAMINATION AND REMOVAL

DECONTAMINATION AND REMOVAL OF WORK FOUND TO CONTAIN ASBESTOS OR WORK INSTALLED WITH ASBESTOS-CONTAINING EQUIPMENT SHALL BE DONE ONLY UNDER SUPERVISION OF A QUALIFIED CONSULTANT, KNOWLEDGEABLE IN THE FIELD OF ASBESTOS ABATEMENT AND ACCREDITED BY THE ENVIRONMENTAL PROTECTION AGENCY.

THE ASBESTOS REMOVAL CONTRACTOR SHALL BE AN EPA ACCREDITED CONTRACTOR QUALIFIED IN THE REMOVAL OF ASBESTOS AND SHALL BE CHOSEN AND APPROVED BY THE ASBESTOS CONSULTANT WHO SHALL HAVE SOLE DISCRETION AND FINAL DETERMINATION IN THIS MATTER.

THE ASBESTOS CONSULTANT SHALL BE CHOSEN AND APPROVED BY THE DISTRICT WHO SHALL HAVE SOLE DISCRETION AND FINAL DETERMINATION IN THIS MATTER.

THE WORK WILL NOT BE ACCEPTED UNTIL ASBESTOS CONTAMINATION IS REDUCED TO LEVELS DEEMED ACCEPTABLE BY THE ASBESTOS CONSULTANTS.

HOLD HARMLESS

INTERFACE OF WORK UNDER THIS CONTRACT WITH WORK CONTAINING ASBESTOS SHALL BE EXECUTED BY THE CONTRACTOR AT HIS RISK AND HIS DISCRETION WITH FULL KNOWLEDGE OF THE CURRENTLY ACCEPTED STANDARDS, HAZARDS RISKS, AND LIABILITIES ASSOCIATED WITH ASBESTOS WORK AND ASBESTOS CONTAINING PRODUCTS.

BY EXECUTION OF THIS CONTRACT THE CONTRACTOR ACKNOWLEDGES THE ABOVE AND AGREES TO HOLD ASSIGNS FOR ALL ASBESTOS LIABILITY WHICH MAY BE ASSOCIATED WITH THIS WORK AND AGREES TO INSTRUCT HIS EMPLOYEES WITH RESPECT TO THE ABOVE MENTIONED STANDARDS, HAZARDS, RISKS AND LIABILITIES.

THE CONTRACTOR SHALL, PRIOR TO COMMENCEMENT OF THIS WORK, PROVIDE A DULY SIGNED AND NOTARIZED AFFIDAVIT THAT HE HAS INSTRUCTED HIS EMPLOYEES WITH RESPECT TO THE ABOVE MENTIONED STANDARDS, HAZARDS, RISKS AND LIABILITIES AND THE CONTENTS AND REQUIREMENTS OF THIS PORTION OF THE CONTRACT DOCUMENTS.

HAZARD MATERIALS

IN THE EVENT THE CONTRACTOR ENCOUNTERS ON THE SITE MATERIALS REASONABLY BELIEVED TO BE ASBESTOS OR POLYCHLORINATED BIPHENYL (PCB) WHICH HAS NOT BEEN RENDERED HARMLESS, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AREA AFFECTED AND REPORT THE CONDITION TO THE DISTRICT AND ENGINEER IN WRITING.

THE WORK IN THE AFFECTED AREA SHALL NOT THEREAFTER BE RESUMED EXCEPT BY WRITTEN AGREEMENT OF THE DISTRICT AND CONTRACTOR IF IN FACT THE MATERIAL IS ASBESTOS OR POLYCHLORINATED BIPHENYL (PCB), OR WHEN IT HAS BEEN RENDERED HARMLESS, BY WRITTEN AGREEMENT OF THE DISTRICT AND CONTRACTOR, OR IN ACCORDANCE WITH FINAL DETERMINATION BY THE ENGINEER.

MATERIAL SAFETY DATA SHEETS (MSDS)

CONTRACTOR IS REQUIRED TO ENSURE THAT MATERIAL SAFETY DATA SHEETS ARE AVAILABLE IN A READILY ACCESSIBLE PLACE AT THE WORK SITE; FOR ANY MATERIAL REQUIRING A MATERIAL SAFETY DATA SHEET PER THE FEDERAL "HAZARD COMMUNICATION" STANDARD, OR EMPLOYEES RIGHT TO KNOW LAW.

THE CONTRACTOR IS ALSO REQUIRED TO ENSURE PROPERLY LABELING ANY SUBSTANCE BROUGHT ONTO THE JOB SITE, AND THAT ANY PERSON WORKING WITH THE MATERIAL, IS INFORMED OF THE HAZARDS OF THE SUBSTANCE AND FOLLOWS PROPER HANDLING AND PROTECTION PROCEDURES.

ASBESTOS STATEMENT

PARTIAL LIST OF APPLICABLE CODES

2025 BUILDING STANDARD ADMINISTRATIVE CODE, PART 1 TITLE 24 C.C.R.
2025 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
2025 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
2025 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
2025 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
2025 CALIFORNIA ENERGY CODE , PART 6, TITLE 24 C.C.R.
2025 CALIFORNIA FIRE CODE , PART 9, TITLE 24 C.C.R.
2025 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 C.C.R.
2025 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.
2025 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 C.C.R.
TITLE 19 C.C.R. , PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS. AMERICAN WITH DISABILITY ACT.

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13	AUTOMATIC SPRINKLER SYSTEMS	2025 EDITION
NFPA 14	STANDPIPE SYSTEMS (CA AMENDED)	2024 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2024 EDITION
NFPA 17A	WET CHEMICAL SYSTEMS	2024 EDITION
NFPA 20	STATIONARY PUMPS	2025 EDITION
NFPA 24	PRIVATE FIRE MAINS (CA AMENDED)	2025 EDITION
NFPA 72	NATIONAL FIRE ALARM CODE (CA AMENDED)	2025 EDITION
(NOTE:	SEE UL STANDARD 1971 FOR "VISUAL DEVICES")	
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2023 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2022 EDITION

REFERENCE CODE SECTION FOR NFPA STANDARDS-2025 CBC CHAPTER 35 AND 2025 CALIFORNIA FIRE CODE

1. DIMENSIONS ARE TYPICALLY TO STRUCTURAL GRID LINES, THE FACE OF CONCRETE AND THE FACE OF STUD, UNLESS NOTED OTHERWISE. DIMENSIONS AND OTHER INFORMATION INDICATED ON LARGER SCALE DRAWINGS SHALL TAKE PRECEDENCE OVER DIMENSIONS AND OTHER INFORMATION INDICATED ON SMALLER SCALE DRAWINGS. IN NO CASE SHALL DIMENSIONS BE DETERMINED BY SCALING THE DRAWINGS, UNLESS DIRECTED BY THE ENGINEER.
2. OCCUPANTS OF THE EXISTING BUILDING SHALL BE SPARED INCONVENIENCE DUE TO THE CONTRACTOR'S WORK, DEBRIS, ETC. ENTRANCES AND CORR- IDORS SHALL BE PROTECTED AND KEPT FREE OF CONSTRUCTION. SEE SPECIFICATIONS FOR THE CONSTRUCTION OF SEPARATION PARTITION(S).
3. DETAILS MARKED "TYPICAL" SHALL APPLY IN ALL LIKE CASES. WHERE NO SPECIFIC DETAIL IS SHOWN, THE CONSTRUCTION SHALL BE IDENTICAL OR SIMILAR TO THAT DETAILED FOR SIMILAR CASES OF CONSTRUCTION.
4. COORDINATE THE REQUIREMENTS OF ALL DISCIPLINES HEREIN, AND THE REQUIREMENTS OF THEIR SPECIFICATIONS, IN ORDER THAT ALL ITEMS RELATING TO EACH OTHER, BUT INDICATED BY DIFFERENT SOURCES OR DISCIPLINES, COORDINATE, FIT AND WORK PROPERLY.
5. PROVIDE THE LATEST EDITION OF THE GUIDELINES FOR SEISMIC RESTRAINTS AS PUBLISHED BY SMACNA, AND KEEP ON THE JOB SITE AT ALL TIMES.
6. ENACT ALL MEASURES REQUIRED TO PROTECT AND SAFEGUARD ALL WORK AND MATERIALS FROM DAMAGE BY ANY MEANS. ALL AREAS ARE TO BE LEFT CLEAN AND IN GOOD REPAIR. REPLACE OR REPAIR WORK, MATERIALS AND FINISHES DAMAGED DURING THE EXECUTION OF THIS CONTRACT TO EQUAL OR BETTER CONDITION.
7. RUN-OFF FROM PETROLEUM PRODUCTS, LIME AND MORTAR, SOIL STERILANTS, AND THE WASHING OF EQUIPMENT USED TO APPLY THESE MATERIALS, IS PROHIBITED WITHIN PLANTED AREAS.
8. LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE AND CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID INTERCEPTING EXISTING, PIPING, OR CONDUITS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT AND TO PROTECT THEM FROM DAMAGE. THE ENGINEER IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACT. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DISTRICT PROJECT MANAGER OF ANY UNIDENTIFIED CONDITIONS AS DISCOVERED. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE PROSECUTION OF THIS WORK.
9. NONRESIDENTIAL ENERGY STANDARDS COMPLIANCE STATEMENT (TITLE 24, PART 6):

   THE DESIGN INDICATED HEREIN COMPLIES WITH THE REQUIREMENTS OF THE ENERGY CONSERVATION STANDARDS OF TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS. THE PROPOSED BUILDING(S) WILL BE IN COMPLIANCE WITH THE ENERGY CONSERVATION STANDARDS PROVIDED IN (THEY) IS (ARE) BUILT ACCORDING TO THESE DRAWINGS AND SPECIFICATIONS AND PROVIDED ANY FUTURE IMPROVEMENTS ARE COMPLETED ACCORDING TO THE REQUIREMENTS OF TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS. THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED TO INCLUDE ALL SIGNIFICANT ENERGY CONSERVATION FEATURES REQUIRED FOR COMPLIANCE WITH THE STANDARDS. BUILDING AREAS THAT ARE UNCONDITIONED AND/OR NOT SUBJECT TO THE STANDARDS ARE INDICATED ON THE PLANS.
10. THE DRAWINGS INDICATE THE END RESULT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE JOB SITE PRIOR TO BID SUBMITTAL TO DETERMINE ANY PROBLEMS HE WILL HAVE IN PERFORMING THE WORK. THE BID SHALL INCLUDE THE COST OF THE RESOLUTION OF ALL CHALLENGES.
11. ANY CONDITIONS NOT COVERED BY THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER ON RECORD BY THE CONTRACTOR AND THE DISTRICT PRIOR TO BIDDING.
12. CONTRACTOR SHALL PROVIDE THE ENGINEER AND DISTRICT WITH A CONSTRUCTION SCHEDULE (WHICH SHALL BE APPROVED IN WRITING) PRIOR TO START OF CONSTRUCTION. ALL ASPECTS OF CONSTRUCTION, INCLUDING, BUT NOT LIMITED TO TRENCHING, TEMPORARY WALK AND DRIVE WAYS, UNIT SYSTEM DISABLING, PIPE REMOVAL/INSTALLATION, UNIT START-UP, CONTROLS INSTALLATION, PHASING, ETC. SHALL BE CONSIDERED.
13. THESE PLANS WERE PREPARED IN A MANNER CONSISTENT WITH EXISTING PROFESSIONAL STANDARDS AND WITH THE UNDERSTANDING THAT THESE DRAWINGS WOULD BE USED SOLELY BY QUALIFIED AND EXPERIENCED CONTRACTORS AND/OR DESIGN PROFESSIONALS FOR USE IN THE CON- STRUCTION OF THIS SPECIFIC PROJECT ONLY. THE DETAILS INDICATED ON THESE PLANS REPRESENT GENERAL TYPICAL DETAILS REQUIRED FOR COMMUNICATING THIS PROJECT'S DESIGN INTENT TO SUCH AN MAY NOT INCLUDE ALL THE DETAILS NECESSARY FOR THE FINAL COMPLETION OF THIS PROJECT.
14. FOR NEW WORK ABOVE CEILING, CAREFULLY REMOVE CEILING TILE AND SAVE. CUT AROUND GYPSUM BOARD OR PLASTER CEILING, PREPARE SURFACE TO RECEIVE NEW WORK. AFTER WORK IS DONE, REPAIR, RE- PLASTER OR INSTALL NEW GYPSUM WALLBOARD TO MATCH ADJACENT SURFACE AND REINSTALL ACOUSTICAL TILE. IF TILE IS DAMAGED, REPLACE WITH NEW TILE TO MATCH EXISTING.
15. OCCUPANTS OF THE EXISTING BUILDING SHALL BE SPARED INCONVENIENCE DUE TO THE CONTRACTOR'S WORK, DEBRIS, ETC. ENTRANCES AND CORR- IDORS SHALL BE PROTECTED AND KEPT FREE OF CONSTRUCTION. THE DISTRICT SHALL BE NOTIFIED IN ADVANCE OF TIMES OF DELIVERY OF EQUIPMENT AND/OR MATERIALS.
16. WHERE PROJECT DRAWINGS AND SPECIFICATIONS LIST CONFLICTING REQUIREMENTS, MOST STRINGENT REQUIREMENTS SHALL APPLY.
17. CONTRACTOR MUST COMPLY WITH APPROVED SCHEDULE. ALL FEES REQUIRED FOR THE EXECUTION AND COMPLETION OF WORK INDICATED HEREIN SHALL BE INCLUDED IN THE CONTRACTORS BID.
18. ANY EXCESS SOIL MATERIALS RESULTING FROM THE EXECUTION OF THIS CONTRACT SHALL BE DELIVERED OFF-SITE AT CONTRACTOR'S EXPENSE.
19. ALL WORK SHALL BE DONE DURING REGULAR WORK HOURS, MONDAY THROUGH FRIDAY. EXCEPTION: CONTRACTOR SHALL INCLUDE IN HIS BID FEES REQUIRED TO COVER THE FOLLOWING SPECIAL WORKING CONDITIONS:

   -ALL OTHER WORK, INCLUDING BUT NOT LIMITED TO CONTROLS WORK, DUCTWORK, PIPING, ETC. SHALL BE DONE MONDAY THROUGH FRIDAY DURING THE HOURS OF 8:00 A.M. TO 5:00 P.M. ANY DEVIATIONS FROM THE SAID HOURS MUST BE APPROVED BY THE DISTRICT PRIOR TO EXECUTING SUCH WORK. (THIS NOTE APPLIES ONLY TO WORK DONE WITHIN THE BUILDING. ALL OTHER WORK MAY DONE DURING REGULAR WORK HOURS FROM MONDAY THROUGH FRIDAY - SEE NOTES BELOW.) FINAL SCHEDULE SHALL BE PER DISTRICT.
   - ALL DUCT CLEANING MUST BE DONE MONDAY THROUGH FRIDAY DURING THE HOURS OF 8:00 A.M. TO 5:00 P.M. ANY DEVIATIONS FROM THE SAID HOURS MUST BE APPROVED BY THE DISTRICT PRIOR TO EXECUTING SUCH WORK. FINAL SCHEDULE SHALL BE PER DISTRICT.
   - ALL AIR AND WATER BALANCING MUST BE DONE MONDAY THROUGH FRIDAY DURING THE HOURS OF 8:00 A.M. TO 5:00 P.M. ANY DEVIATIONS FROM THE SAID HOURS MUST BE APPROVED BY THE DISTRICT PRIOR TO EXECUTING SUCH WORK.
20. WHERE REMOVAL OF CONCRETE WALKS, MOW STRIPS, CURBS AND GUTTERS IS REQUIRED TO INSTALL UNDERGROUND UTILITIES, REMOVE THE CONCRETE WORK TO THE NEAREST EXISTING EXPANSION OR CONTROL JOINT (SAWCUT IF REQUIRED). MOWSTRIPS, CURBS AND GUTTERS MAY BE REMOVED IN MINIMUM LENGTHS OF 6 FEET IF THE DISTANCE BETWEEN EXISTING JOINTS IS 12 FEET OR MORE. REPLACE REMOVED WORK WITH REINFORCED CONCRETE TO MATCH ADJACENT EXISTING WORK IN PROFILE, JOINT LAYOUT AND FINISH.
21. COORDINATE THE REMOVAL, RELOCATION OR MODIFICATION OF EXISTING IRRIGATION LINES WITH THE PROJECT MANAGER PRIOR TO ANY TRENCHING, CLEARING AND GRUBBING, OR OTHER SITE EXCAVATIONS REQUIRED FOR EXECUTION OF WORK.
22. CONTRACTOR SHALL MAINTAIN PLANTING WITHIN THE JOB SITE FENCE ENCLOSURE DURING DEMOLITION AND CONSTRUCTION PHASES. EXISTING IRRIGATION SYSTEMS SHALL EITHER REMAIN OPERATIONAL FOR CONTRACTOR'S USE OR CONTRACTOR SHALL HAND-WATER EXISTING PLANT MATERIALS AT LEAST ONCE A WEEK. TURN SHALL BE MOWED AT LEAST ONCE EVERY TWO WEEKS.
23. WHERE THE REMOVAL OF PLANT LIFE IS REQUIRED FOR THE PURPOSE OF PERFORMING WORK INDICATED HEREIN, CONTRACTOR SHALL RESPONSIBLE FOR REMOVING AND REPLACING PLANTS. CONTRACTOR MAY TEMPORARILY TRANSPLANT PLANTING AND RE-PLANT UPON COMPLETION OF WORK IF SO DESIRED. 'NEW' PLANTS SHALL BE THE SAME TYPE AND SIMILAR IN SIZE AS REMOVED PLANT(S).
24. WHEN ITEMS ARE REMOVED FROM AND/OR INSTALLED ANYWHERE ON SITE, ALL SURFACES SHALL BE FINISHED AS REQUIRED TO GIVE A UNIFORM SURFACE. MATCH EXISTING MATERIALS, COLOR AND TEXTURE.
25. CONTRACTOR SHALL INCLUDE IN HIS BID ALL PREMIUM TIME TO WHICH HE MAY BE SUBJECTED FOR PERFORMING WORK IN SUCH PROCEDURE AND AT SUCH TIME AS MAY BE NECESSARY TO CAUSE THE LEAST INTERFERENCE WITH THE FUNCTION OF THIS FACILITY. ALL WORK MUST BE COORDINATED WITH THE DISTRICT PROJECT MANAGER PRIOR TO START OF WORK AT ANY PARTICULAR LOCATION ON SITE. 72-HOUR ADVANCED NOTICE MUST BE GIVEN FOR ONSITE WORK LOCATION CHANGE AND/OR COMMENCEMENT. SEE PROJECT SPECIATIONS FOR ADDITIONAL REQUIREMENTS.
26. FURNISH AND INSTALL TEMPORARY HEATING AND/OR COOLING SYSTEMS AS REQUIRED BY THE DISTRICT. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SETUP/TAKE-DOWN AND OPERATING LOGISTICS FOR AS LONG AS SAID SYSTEM IS REQUIRED. CONTRACTOR SHALL OBTAIN IN WRITING, APPROVAL FOR ANY TEMPORARY HVAC SYSTEM TO BE INCLUDED AS A MEANS FOR ABIDING BY THE GENERAL PROVISIONS SET FORTH BY THE DISTRICT.
27. DEMOLITION WORK SHOWN ON THE DRAWINGS IS DIAGRAMMATIC. ALL CONDITIONS MAY NOT BE SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ALL ITEMS THAT WILL INTERFERE WITH NEW CONSTRUCTION. STRUCTURAL ITEMS THAT ARE TO BE REMOVED SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND THE DISTRICT PROJECT MANAGER PRIOR TO REMOVAL.
28. THE EXISTENCE OR LOCATION OF UNDERGROUND PIPING SHOWN ON THESE PLANS WERE OBTAINED BY SEARCH OF AVAILABLE RECORDS AND CORRESPONDENCE WITH DISTRICT EMPLOYEES. THE CONTRACTOR SHALL ASCERTAIN THE TRUE VERTICAL AND HORIZONTAL LOCATION AND SIZE OF ALL UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR DAMAGE TO ANY PUBLIC OR PRIVATE UTILITIES, SHOWN OR NOT SHOWN HEREON.
29. WORKERS ARE ONLY ALLOWED IN AREAS THAT ARE APPROPRIATE TO THE REQUIRED WORK AND SHALL MAKE EVERY EFFORT NOT TO DISTURB THE FUNCTION OF THE FACILITY OR IT'S OCCUPANTS. WORK AREAS SHALL BE PRE-DETERMINED AND COORDINATED WITH THE DISTRICT PROJECT MANAGER. CONTRACTOR MUST OBTAIN WRITTEN APPROVAL FROM PROBATION OFFICIALS PRIOR TO STARTING WORK IN ANY PARTICULAR AREA - NO EXCEPTIONS.
30. FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA. LIST DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT.
31. WHENEVER DSA FINDS ANY CONSTRUCTION WORK IS BEING PERFORMED IN A MANNER CONTRARY TO THE PROVISIONS OF CALIFORNIA BUILDING CODE AND THAT WOULD COMPROMISE THE STRUCTURAL INTEGRITY OF THE BUILDING, THE DEPARTMENT OF GENERAL SERVICES, STATE OF CALIFORNIA, IS AUTHORIZED TO ISSUE A STOP WORK ORDER PER SECTION 4-334.1 CALIFORNIA ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR).
32. TITLE 24, PARTS 1-5 AND 9 MUST BE KEPT ON SITE DURING CONSTRUCTION.
33. SUBMIT RFI'S TO DESIGN TEAM IN CASE OF INCONSISTENCIES BETWEEN APPROVED DRAWINGS AND APPROVED SPECIFICATIONS IN THE DESCRIPTIONS OF WORK TO BE DONE, EQUIPMENT TO BE PROVIDED OR MATERIAL TO BE USED. IT SHALL BE THAT THE MORE STRINGENT, THE MORE RESTRICTIVE, THE HIGHER QUALITY, AND THE GREATER QUANTITY OF WORK SHALL APPLY. SUBMIT REVISED DRAWINGS OR SPECIFICATIONS AS RESULT OF SUCH RFI'S TO DSA VIA CCD'S IF REQUIRED BY IR A-6.
34. ALL STRUCTURAL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING MATERIALS INSTALLATION TO COMPLY WITH APPLICABLE CODES, STANDARDS, AND MANUFACTURERS RECOMMENDATIONS.
35. THE PROJECT INSPECTION (PI) SHALL WITNESS AND VERIFY GROUNDING.

GENERAL REQUIREMENTS

36. ALL WORK SHALL CONFORM TO 2025 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
37. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGED DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
38. A "DSA CERTIFIED" CLASS 3 PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
39. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
40. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR)
41. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
42. AN INSPECTOR WHO IS SPECIALLY QUALIFIED IN MECHANICAL AND ELECTRICAL WORK WILL BE REQUIRED FOR THIS PROJECT.
43. COMPLY WITH CFC CHAPTER 33 AND CBC CHAPTER 33.
44. ENERGY COMPLIANCE REVIEW AND APPROVAL IS REQUIRED PRIOR TO DSA APPROVAL OF THE CONSTRUCTION DOCUMENTS.
45. CONTRACTOR OPERATIONS SHALL NOT BLOCK, HINDER, IMPEDE OR OTHERWISE INHIBIT THE USE OF REQUIRED EXITS AT ANY TIME. CONTRACTOR SHALL MAINTAIN UNOBSTRUCTED ACCESS TO FIRE EXTINGUISHERS, FIRE HYDRANTS, TEMPORARY FIRE PROTECTION FACILITIES, STAIRWAYS AND OTHER ACCESS ROUTES FOR FIRE-FIGHTING EQUIPMENT AND OR PERSONNEL.

ACCEPTANCE TESTING

46. 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.
47. LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).
48. MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.
49. ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.
50. 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.
51. 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.
52. PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

PROJECT SCOPE

BUILDING A1 (LIBRARY)
1. THIS PROJECT CONSISTS OF THE REMOVAL AND REPLACEMENT OF EXISTING HVAC UNITS AND ASSOCIATED MECHANICAL, ELECTRICAL, STRUCTURAL, AND ROOFING WORK NECESSARY TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
   1.1. REMOVE (2) EXISTING ROOF TOP HEAT PUMP UNITS SERVING THE LIBRARY AND READING ROOM AND REPLACE AS INDICATED ON PLANS AND PROVIDE NEW LEVELING PLATFORM AND ROOF CURB.
   1.2. REUSE EXISTING AIR DISTRIBUTION AND PROVIDING NEW CONNECTIONS AS NECESSARY TO CONNECT TO EXISTING.

BUILDING G
1. THIS PROJECT CONSISTS OF THE REMOVAL AND REPLACEMENT OF EXISTING HVAC UNITS AND ASSOCIATED MECHANICAL, ELECTRICAL, STRUCTURAL, AND ROOFING WORK NECESSARY TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
   1.1. REMOVE (4) EXISTING ROOF TOP HEAT PUMP UNITS SERVING THE CLASSROOMS AND REPLACE AS INDICATED ON PLANS AND PROVIDE NEW LEVELING PLATFORM AND ROOF CURB.
   1.2. REUSE EXISTING AIR DISTRIBUTION AND PROVIDING NEW CONNECTIONS AS NECESSARY TO CONNECT TO EXISTING.

BUILDING E
1. THIS PROJECT CONSISTS OF THE REMOVAL AND REPLACEMENT OF EXISTING HVAC UNITS AND ASSOCIATED MECHANICAL, ELECTRICAL, STRUCTURAL, AND ROOFING WORK NECESSARY TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
   1.1. REMOVE (3) EXISTING HEAT PUMP PACKAGE UNITS SERVING CLASSROOMS AND REPLACE AS INDICATED ON PLANS AND PROVIDE NEW LEVELING PLATFORM AND ROOF CURB.
   1.2. REUSE EXISTING AIR DISTRIBUTION AND PROVIDING NEW CONNECTIONS AS NECESSARY TO CONNECT TO EXISTING.

BUILDING F
1. THIS PROJECT CONSISTS OF THE REMOVAL AND REPLACEMENT OF EXISTING HVAC UNITS AND ASSOCIATED MECHANICAL, ELECTRICAL, STRUCTURAL, AND ROOFING WORK NECESSARY TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
   1.1. REMOVE (2) EXISTING HEAT PUMP PACKAGE UNITS SERVING CLASSROOMS AND REPLACE AS INDICATED ON PLANS AND PROVIDE NEW LEVELING PLATFORM AND ROOF CURB.
   1.2. REUSE EXISTING AIR DISTRIBUTION AND PROVIDING NEW CONNECTIONS AS NECESSARY TO CONNECT TO EXISTING.

BUILDING P
1. THIS PROJECT CONSISTS OF THE REMOVAL AND REPLACEMENT OF EXISTING HVAC UNITS AND ASSOCIATED MECHANICAL, ELECTRICAL, STRUCTURAL, AND ROOFING WORK NECESSARY TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
   1.1. REMOVE (2) EXISTING HEAT PUMP PACKAGE UNITS SERVING THE STORAGE, WORKROOM AND CLASSROOMS AND REPLACE AS INDICATED ON PLANS AND PROVIDE NEW LEVELING PLATFORM AND ROOF CURB.
   1.2. REUSE EXISTING AIR DISTRIBUTION AND PROVIDING NEW CONNECTIONS AS NECESSARY TO CONNECT TO EXISTING.

BUILDING L
1. THIS PROJECT CONSISTS OF THE REMOVAL AND REPLACEMENT OF EXISTING HVAC UNITS AND ASSOCIATED MECHANICAL, ELECTRICAL, STRUCTURAL, AND ROOFING WORK NECESSARY TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
   1.1. REMOVE (13) EXISTING ROOF TOP HEAT PUMP UNITS SERVING CLASSROOMS AND LABS AND REPLACE AS INDICATED ON PLANS. EXISTING LEVELING PLATFORM AND ROOF CURB TO REMAIN AND BE REUSED..
   1.2. REUSE EXISTING AIR DISTRIBUTION AND PROVIDING NEW CONNECTIONS AS NECESSARY TO CONNECT TO EXISTING.

CONTROLS

1. ALL UNITS SHALL BE PROVIDED WITH NEW THERMOSTAT.

PRE-READ AND POST-READ AIR BALANCE TABS

CONTRACTOR TO DO PRE-READ AND POST-READ TAB AIR BALANCE FOR TOTAL SUPPLY, TOTAL RETURN, TOTAL OSA & PROVIDE REPORT TO DISTRICT & ENGINEER. ENGINEER WILL THEN PROVIDE FINAL VALUES FOR NEW UNITS FOR TAB CONTRACTOR TO BALANCE TO.

EXISTING PARTS

EXISTING SMOKE DETECTORS TO BE REUSED. COORDINATE WITH ELECTRICAL AND FIRE ALARM.

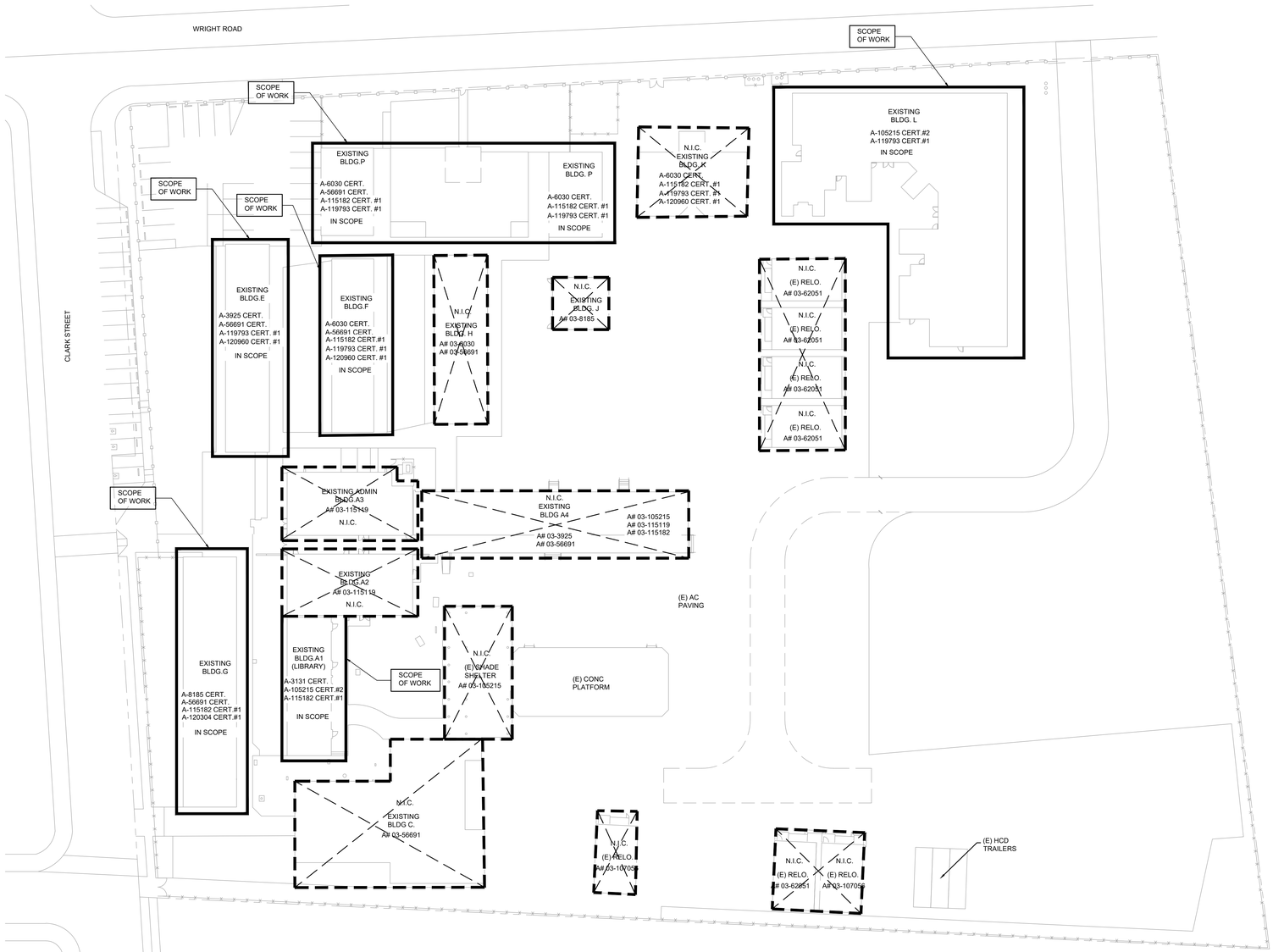
DISTRICT SHALL HAV

BLDG DATA

BUILDING	OCCUPANCY/ CONSTRUCTION TYPE	BASIC ALLOWABLE S.F.	ACTUAL S.F.	FIRE ALARM/ FIRE SPRINKLER
A1	E/ V-B	9,100	2,066	YES/ NO
E	E/ V-N	9,100	2,916	YES/ NO
F	E/ V-N	9,100	2,449	YES/ NO
G	E/ V-B	9,100	4,471	YES/ NO
L	A2.1/ V - IHR	31,400	20,695	YES/ YES
P	E/ V-N	9,100	4,697	YES/ NO

IN SCOPE

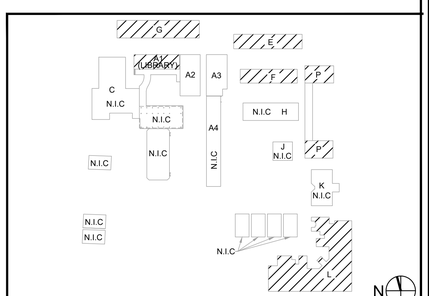
NOT IN SCOPE



REF. NORTH

N

SITE PLAN | 1" = 30'-0" | 1



N

KEY PLAN | NOT TO SCALE

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-126114 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 09/15/2026

optimum energy design
Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
Telephone (714) 693-2277

STAMP

REGISTERED PROFESSIONAL ENGINEER PETER ZAK No. 56691 Exp. 6/30/27 STRUCTURAL STATE OF CALIFORNIA

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL

5260 CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1

JOB NO:	501-26-0032
DATE:	09/04/2026
DRAWN:	VZ
CHECK:	ZF
ARCHITECT:	PETRA
ENGINEER:	OED
DSA NUMBER:	03-126114

CONSULTANT

STAMP

SHEET DESCRIPTION:
SITE PLAN

SHEET NO:
T-2

Project # 2025-164-02-08 Abbott ES_R26

Plot Date: 8/12/2026 5:04:39 PM

ABBREVIATIONS

ABBREVIATIONS		**ABBREVIATIONS CONT:**	
#	POUNDS; NUMBER	MAS	MASONRY
&	AND	MAT	MATERIAL
<	LESS THAN	MAX	MAXIMUM
>	GREATER THAN	MB	MACHINE BOLT
@	AT	MDF	MEDIUM DENSITY FIREBOARD
°	DEGREES	MECH	MECHANICAL
±	PLUS OR MINUS	MEZZ	MEZZANINE
≤	LESS THAN OR EQUAL TO	MF	MOMENT FRAME
≥	GREATER THAN OR EQUAL TO	MFR	MANUFACTURER
		MID	MIDDLE
A	AREA	MIN	MINIMUM
AB	ANCHOR BOLT	MISC	MISCELLANEOUS
ABV	ABOVE	MK	MARK
ADD/ADDL	ADDITIONAL	MOV	MOVABLE
ADH	ADHESIVE	MT	MAGNETIC PARTICLE TESTING
ADJ	ADJACENT/ADJUSTABLE	MTL	METAL
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	MULTI	MULTIPLE
AFF	ABOVE FINISH FLOOR	MWFRS	MAIN WIND-FORCE RESISTING SYSTEM
ALT	ALTERNATE		
ALUM	ALUMINUM	(N)	NEW
ANCH	ANCHOR	N	NORTH
APPVD	APPROVED	NAT	NATURAL
APPROX	APPROXIMATELY	NDT	NON-DESTRUCTIVE TESTING
ARCH	ARCHITECTURAL; ARCHITECT	NF	NEAR FACE
AR	ANCHOR ROD	NIC	NOT IN CONTRACT
		NIP	NOT IN PERMIT
BAL	BALANCE	NLG	NAILING
BEL	BELOW	NO	NUMBER
BC	BOTTOM CHORD	NOM	NOMINAL
BD	BOARD	NS	NEAR SIDE
BLDG	BUILDING	NTS	NOT TO SCALE
BLK	BLOCK	NWC	NORMAL WEIGHT CONCRETE
BLKG	BLOCKING		
BM	BEAM	o/	OVER
BN	BOUNDARY NAIL	OC	ON CENTER
BNDRY	BOUNDARY	OD	OUTSIDE DIAMETER
B/BOT/BOTT	BOTTOM	OF	OUTSIDE FACE
BOF	BOTTOM OF FOOTING	OH	OPPOSITE HAND
BOS	BOTTOM OF STEEL	OPNG	OPENING
BP	BASE PLATE	OPP	OPPOSITE
BRB	BUCKLING-RESTRAINED BRACE	OSB	ORIENTED STRAND BOARD
BRBF	BUCKLING-RESTRAINED BRACED FRAME	OWJ	OPEN WEB JOIST
BRDG	BRACING		
BRDG	BRIDGING	PAR	PARALLEL
BRG	BEARING	PC	PRECAST PIECE; PILECAP
BS	BOTH SIDES	PCF	POUNDS PER CUBIC FOOT
BSMT	BASEMENT	PCI	POUNDS PER CUBIC INCH
BTW	BETWEEN	PAF	POWDER ACTUATED FASTENER
BYND	BEYOND	PDF	POWDER DRIVEN FASTENERS
		PLF	POUNDS PER LINEAR FOOT
C	CAMBER	PE	PROFESSIONAL ENGINEER
CA	COLUMN ABOVE	PERP	PERPENDICULAR
CANT	CANTILEVER	PI	PLYWOOD INDEX
CB	COLUMN BELOW	PJ	POUR JOINT
CBC	CALIFORNIA BUILDING CODE	PJP	PARTIAL JOINT PENETRATION
CBF	CONCENTRICALLY BRACED FRAME	PL	PLATE; PROPERTY LINE
CC	CENTER TO CENTER	PLAT	PLATFORM
CCR	CALIFORNIA CODE OF REGULATIONS	PLY	PLYWOOD
CF	CUBIC FEET	PLC	PLACE
CG	CENTER OF GRAVITY	PLBG	PLUMBING
CHKD	CHECKERED	PLMB	PLUMBING
CIP	CAST IN PLACE	PLWD	PLYWOOD
CJ	CONSTRUCTION JOINT	PNL	PANEL
CJP	COMPLETE JOINT PENETRATION	PP	PARTIAL PENETRATION
CL	CENTER LINE	PQR	PROCEDURE QUALIFICATION RECORD
CLG	CEILING	PREFAB	PREFABRICATED
CLR	CLEARANCE; CLEAR	PRKG	PARKING
CMU	CONCRETE MASONRY UNIT	PROJ	PROJECT
COL	COLUMN	PROP	PROPERTY
CONC	CONCRETE	PS	PRESTRESS; PRESTRESSED
CONN	CONNECTION; CONNECT	PSF	POUNDS PER SQUARE FOOT
CONST	CONSTRUCTION	PSI	POUNDS PER SQUARE INCH
CONT	CONTINUE; CONTINUOUS	PSL	PARALLEL STRAND LUMBER
CONTR	CONTRACTOR	PT	POST TENSION; POST TENSIONED
COORD	COORDINATE; COORDINATES	PUN	PUNCHED
CP	COMPLETE PENETRATION	PVMT	PAVEMENT
CTR	CENTER	PWJ	PLYWOOD WEB JOIST
CTRL JT	CONTROL JOINT		
CVN	CHARPY V-NOTCH	RAD	RADIUS
CY	CUBIC YARD	RAFT	RAFTER
		RBS	REDUCED BEAM SECTION
d	PENNY (NAIL OR db)	RD	ROOF DRAIN; ROAD
DBA	DEFORMED BAR ANCHOR	REF	REFERENCE
DBL	DOUBLE	REG	REGULAR
DBLR	DOUBLER	REINF	REINFORCE; REINFORCING
DEPT	DEPARTMENT	REMOV	REMOVE; REMOVABLE
DET	DETAIL	REQ	REQUIRED
DEG	DEGREE	RET	RETAINING
DEGF	DEGREE FAHRENHEIT	REV	REVISION
DEPR	DEPRESS; DEPRESSED; DEPRESSION	RF	ROOF
DF	DOUGLAS FIR	RJ	ROOF JOIST
DIA	DIAMETER	RM	ROOM
DIAG	DIAGONAL	RO	ROUGH OPENING
DIAPH	DIAPHRAGM	RTNG	RETAINING
DIM	DIMENSION		
DIR	DIRECTION	S	SOUTH; ELASTIC SECTION MODULUS
DIST	DISTANCE	SAD	SEE ARCHITECTURAL DRAWINGS
DL	DEAD LOAD	SAW	SUBMERGED ARC WELDING
DN	DOWN	SCHED	SCHEDULE
DO	DITTO	SCL	STRUCTURAL COMPOSITE LUMBER
DWG	DRAWING	SE/SEOR	STRUCTURAL ENGINEER (OF RECORD)
DWL	DOWEL	SECT	SECTION
		SEL	SELECT
(E)	EXISTING	SEP	SEPARATION
E	EAST	SHT	SHEET
EA	EACH	SHTG	SHEATHING
EBF	ECCENTRICALLY BRACED FRAME	SIM	SIMILAR
EF	EACH FACE	SJ	SEISMIC JOINT
EFF	EFFECTIVE	SLBB	SHORT LEGS BACK-TO-BACK
EJ	EXPANSION JOINT	SLRS	SEISMIC LOAD RESISTING SYSTEM
EL	ELEVATION	SLV	SLEEVE
ELEC	ELECTRICAL	SMS	SHEET METAL SCREWS
ELEV	ELEVATOR	SOG	SLAB ON GRADE
EMB	EMBEDDED; EMBEDMENT	SPA/SPC	SPACES
EN	EDGE NAIL	SPCG	SPACING
ENGR	ENGINEER	SPCL	SPECIAL
EOR	ENGINEER OF RECORD	SPEC	SPECIFICATIONS
EOS	EDGE OF SLAB	SQ	SQUARE
EQ	EQUAL	SS	SELECT STRUCTURAL; STAINLESS STEEL
EQUIP	EQUIPMENT	SSH	SHORT SLOTTED HOLES
EQUIV	EQUIVALENT	STAGG	STAGGER; STAGGERED
ES	EACH SIDE	STD	STANDARD
ETC	ET CETERA	STIFF	STIFFENER
EW	EACH WAY	STIRR	STIRRUP
EXC	EXCAVATE	STL	STEEL
EXIST	EXISTING	STRUCT	STRUCTURAL
EXP	EXPANSION	SW	SHEAR WALL
EXT	EXTERIOR	SYM	SYMMETRICAL
F	FAHRENHEIT		
FAB	FABRICATE; FABRICATION; FABRICATOR	T	TOP
Fb	ALLOWABLE BENDING STRESS	T&B	TOP & BOTTOM
F'c	CONCRETE COMPRESSIVE STRENGTH	T&G	TONGUE & GROOVE
FCAW	FLUX CORED ARC WELDING	T/	TOP OF
FD	FLOOR DRAIN	TB	TIE BEAM
FDN/FOUND	FOUNDATION	TC	TOP CHORD
FF	FINISH FLOOR; FAR FACE	TEMP	TEMPERATURE; TEMPORARY
FIN	FINISH	THK/THKN	THICK; THICKNESS
FJ	FLOOR JOIST	THRU	THROUGH
FLG	FLANGE	TL	TOTAL LOAD
FLR	FLOOR	TN	TOE NAIL
FN	FIELD NAIL	TOB	TOP OF BEAM
F'm	MASONRY COMPRESSIVE STRENGTH	TOC	TOP OF CURB; TOP OF CONCRETE
FO	FACE OF	TOF	TOP OF FOOTING
FOC	FACE OF CONCRETE	TOL	TOP OF LEDGER
FOF	FACE OF FINISH	TOS	TOP OF STEEL
FOS	FACE OF STUD	TOSH	TOP OF SHEAR WALL
FOW	FACE OF WALL	TOSL	TOP OF SLAB
FP	FIREPROOF; FULL PENETRATION	TOW	TOP OF WALL
FRMG	FRAMING	TRANSV	TRANSVERSE
FS	FULL SIZE; FAR SIDE	TSG	TAPERED STEEL GIRDER
FT	FOOT; FEET	TYP	TYPICAL
FTG	FOOTING		
FUT	FUTURE	UL	UNDERWRITER'S LABORATORY, INC
Fy	YIELD STRENGTH	UNO/UON	UNLESS NOTED OTHERWISE
		UT	ULTRASONIC TEST
GA	GAUGE		
GALV	GALVANIZED	V/VERT	VERTICAL
GB	GRADE BEAM	VIF	VERIFY IN FIELD
GC	GENERAL CONTRACTOR		
GEN	GENERAL	W	WEST
GLB	GLUED-LAMINATED BEAM	WF	WIDE FLANGE
GMAW	GAS METAL ARC WELDING	w/	WITH
GR	GRADE	W/C	WATER/CEMENT
GRTG	GRATING	W/O	WITHOUT
		WD	WOOD
HD	HOLDOWN	WP	WORK POINT; WATERPROOF
HDR	HEADER	WPS	WELD PROCEDURE SPECIFICATIONS
HGR	HANGER	WWF	WELDED WIRE FABRIC
HK	HOOK	WHT/WT	WEIGHT
HORIZ	HORIZONTAL		
HR	HARD ROCK; HANDRAIL		
HS	HIGH STRENGTH		
HT	HEIGHT		
I	MOMENT OF INERTIA		
ID	INSIDE DIAMETER		
IE	INVERT ELEVATION		
IF	INSIDE FACE		
IN	INCH		
INCL	INCLUDE; INCLUDING		
INFO	INFORMATION		
INSP	INSPECTION; INSPECTOR		
INT	INTERIOR		
INV	INVERT; INVERTED		
JST	JOIST		
JT	JOINT		
K/KIP	1,000 POUNDS		
KO	KNOCK-OUT		
KP	KING POST		
KSF	KIPS PER SQUARE FOOT		
KSI	KIPS PER SQUARE INCH		
LAB	LABORATORY		
LBS	POUNDS		
LDGR	LEDGER		
LF	LINEAR FOOT		
LG	LONG		
LIN	LINEAL; LINEAR		
LL	LIVE LOAD		
LLBB	LONG LEGS BACK-TO-BACK		
LLH	LONG LEG HORIZONTAL		
LNDG	LANDING		
LNTL	LINTEL		
LOC	LOCATION		
LONGIT	LONGITUDINAL		
LSH	LONG SLOTTED HOLES		
LTWT	LIGHTWEIGHT		
LVL	LEVEL; LAMINATED VENEER LUMBER		
LWC	LIGHTWEIGHT CONCRETE		

STRUCTURAL STEEL SHAPES:

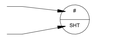
W	W SHAPES
S	S SHAPES
M	M SHAPES
HP	HP SHAPES
C	STD CHANNEL
MC	MISC CHANNEL
L	ANGLES
WT, ST, MT	STRUCT TEES CUT FROM W, S, M SHAPE
P#	STANDARD PIPE
PX#	EXTRA STRONG PIPE
PXX#	DOUBLE EXTRA STRONG PIPE
HSS	HOLLOW STRUCTURAL SECTION
TS	TUBE SECTION

INSTITUTIONS:

ACI	AMERICAN CONCRETE INSTITUTE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI	AMERICAN IRON AND STEEL INSTITUTE
AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APA	AMERICAN PLYWOOD ASSOCIATION
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWPB	AMERICAN WOOD PRESERVERS BUREAU
AWS	AMERICAN WELDING SOCIETY
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
DSA	DIVISION OF THE STATE ARCHITECT
IAPMO-ES	IAPMO EVALUATION SERVICE
ICBO	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS
ICC	INTERNATIONAL CODE COUNCIL
ICC-ER	ICC-ES LEGACY REPORT
ICC-ES	ICC EVALUATION SERVICE
ICC-ESR	ICC-ES REPORT
OSHPD	OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
PCI	PRE-CAST CONCRETE INSTITUTE
PTI	POST-TENSION CONCRETE INSTITUTE
SJI	STEEL JOIST INSTITUTE
TPI	TRUSS PLATE INSTITUTE

SYMBOLS

DETAIL NUMBER



SHEET NUMBER

DETAIL REFERENCE



SECTION REFERENCE



WALL ELEVATION



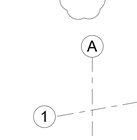
DATUM ELEVATION



REVISION & CLOUD



GRID SYSTEM



WOOD

1. ALL STRUCTURAL LUMBER SHALL BE DOUGLAS FIR-LARCH, VISUALLY GRADED OR MACHINE GRADED UNDER THE STANDARD GRADING RULES, NO.
   17 OF THE WEST COAST LUMBER INSPECTION BUREAU, AND SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 23 OF THE CBC. ALL RAMING SHALL BE LESS THAN 19% MOISTURE CONTENT AT TIME OF INSTALLATION AS WELL AS BEFORE ENCLOSURE. ALL FRAMING MEMBERS SHALL BE AS FOLLOWS:

SIZE AND APPLICATION	GRADE
2x TOP PLATES & SILLS	STANDARD OR NO. 2
2x4 STUDS (UP TO 9'-0")	STUD
2x4 STUDS (OVER 9'-0")	NO. 2, UNO
2x6 STUDS (UP TO 10'-0")	STUD
2x6 STUDS (OVER 10'-0")	NO. 2, UNO
4x AND LARGER BEAMS AND POST	NO. 1, UNO
JOIST AND ALL OTHER 2" TO 4" SAWN LUMBER	NO. 2, UNO

2. ALL WOOD BEARING ON CONCRETE OR MASONRY IN DIRECT CONTACT WITH EARTH SHALL BE PRESSURE TREATED DOUGLAS FIR IN ACCORDANCE WITH CBC 2303.1.9 AND 2304.12. ALL CUTS, HOLES & NOTCHES BE TREATED WITH A PRESERVATIVE APPROVED BY THE STRUCTURAL ENGINEER.
3. FASTENERS FOR PRESSURE-PRESERVATIVE TREATED WOOD SHALL BE HOT-DIPPED ZINC COATED GALVANIZED, STAINLESS STEEL, SILICON BRONZE OR COPPER PER CBC 2304.10.5. (EXCEPTION- PLAIN CARBON STEEL FASTENERS INCLUDING NUTS AND WASHERS IN SBX/DOT AND ZINC BORATE PRESERVATIVE-TREATED WOOD IN AN INTERIOR, DRY ENVIRONMENT SHALL BE PERMITTED.)
4. ALL STRUCTURAL SHEATHING SHALL BE DOUGLAS FIR STANDARD GRADE STRUCTURAL I WITH EXTERIOR GLUE CONFORMING TO THE LATEST EDITIONS OF PS 1 AND PS 2 UNO. ALL PANELS SHALL BEAR LEGIBLE APA STAMPS. NO INDIVIDUAL SHEETS SHALL BE LESS THAN 2 FEET IN WIDTH. FULL SHEETS (4'-0"x8'-0") SHALL BE USED WHEREVER POSSIBLE.
5. ALL FLOOR AND ROOF SHEATHING SHALL BE LAID FACE GRAIN PERPENDICULAR TO FRAMING UNO. ALL SHEATHING SHALL BE APPROVED BY THE BUILDING INSPECTOR BEFORE COVERING.
6. UNLESS NOTED OTHERWISE, ALL WOOD SILL PLATE UNDER BEARING, EXTERIOR, OR SHEAR WALLS IN CONTACT WITH CONCRETE OR MASONRY SHALL BE BOLTED TO CONCRETE OR MASONRY WITH 5/8" Ø HEADED ANCHOR BOLTS w/ 7" MIN EMBEDMENT IN MASONRY EMBEDDED AT 4'-0" OC UNO, & AT 4" MIN AND 12" MAX FROM EACH END OF THE PLATES. A MINIMUM OF TWO ANCHOR BOLTS SHALL BE PLACED IN ANY ONE PIECE OF SILL PLATE.
7. ALL BOLT HEADS AND NUTS WHICH BEAR AGAINST THE FACE OF WOOD MEMBERS SHALL BE PROVIDED WITH 2"x2"x3/16" STEEL PLATE WASHERS UNO. ALL ANCHOR BOLTS FOR SHEAR WALLS SHALL BE PROVIDED WITH A 3"x3"x.229" MIN STEEL PLATE WASHER UNO ON SHEAR WALL SCHEDULE.
8. ALL NAILS FOR CONNECTING WOOD MEMBERS SHALL BE COMMON NAILS. MINIMUM NAILING REQUIREMENTS OUTLINED IN TABLE 2304.10.2 SHALL BE FOLLOWED UNLESS NOTED OTHERWISE.
9. RETIGHTEN BOLTS BEFORE CLOSING-IN.
10. USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION FOR EACH CRAFTSMAN AND APPROVAL BY THE ARCHITECT OR STRUCTURAL ENGINEER AND THE JURISDICTION. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE APPROVED IN 5/16" PLYWOOD WHERE NAIL HEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED. THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.
11. ALL WOOD HARDWARE CONNECTORS SHALL BE SIMPSON STRONG-TIE UNLESS NOTED OTHERWISE.
12. PROVIDE FULL DEPTH BLOCKING AT 4'-0" OC BETWEEN ADJACENT JOISTS UNDER ALL PERPENDICULAR PARTITIONS. PROVIDE DOUBLE JOIST UNDER ALL PARALLEL PARTITIONS UNLESS NOTED OTHERWISE.
13. UNLESS SPECIFICALLY SHOWN ON THESE PLANS, NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED, NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE SEOR
14. ROOF SHEATHING SHALL BE INSPECTED PRIOR TO PLACING INSULATION AND ROOFING.
15. SOLID BLOCKING (2x MIN) SHALL BE PLACED BETWEEN JOISTS OR RAFTERS AT ALL SUPPORTS & @ 8'-0" OC MAX.
16. ALL ANCHOR RODS SHALL CONFORM TO ASTM F1554 GR 36. ALL BOLTS SHALL CONFORM TO ASTM A307 UNO.
17. HOLES FOR BOLTS SHALL BE BORED 1/32" TO 1/16" LARGER THAN NOMINAL BOLT DIAMETER. (THIS INCLUDES HOLES FOR ANCHOR RODS IN SILL PLATE).
18. JOIST CONNECTIONS SHALL BE SIMPSON 'LUS' UNLESS NOTED OTHERWISE.
19. ALL POSTS CONNECTION AT TOP AND BOTTOM SHALL BE SIMPSON 'CC' UNO.
20. ALL POST CONNECTIONS LOCATED DIRECTLY ON CONCRETE SHALL BE SIMPSON 'CB' UNLESS NOTED OTHERWISE.
21. FILL ALL NAIL HOLES OF WOOD CONNECTION HARDWARE (STRAPS, HANGERS, ETC.)
22. ALL NON-SHEAR WALLS SHALL HAVE BRACING PROVIDED BY ONE OF THE METHODS REQUIRED BY CODE SECTION 2308.9.3.
23. ALL LAG SCREWS AND WOOD SCREWS SHALL CONFORM TO ANSI/ASME B18.2.1 FOR LAG SCREWS & ANSI/ASME B18.6.1 FOR WOOD SCREWS
24. SECURE ALL EMBEDDED HARDWARE PRIOR TO FOUNDATION INSPECTION.
25. EACH SHEET OF SHEATHING SHALL BE IDENTIFIED WITH THE GRADE TRADE MARK OF AN APPROVED TESTING AND GRADING AGENCY. THE SHEATHING SHALL MEET THE REQUIREMENTS OF PRODUCT STANDARD (DOC) PSI AND PS2 OR APA PRP-108. INSTALL SHEATHING PANELS IN A DIRECTION AS SHOWN ON PLANS. PANELS WITH DIMENSION LESS THAN 24 INCHES IN ANY DIRECTION SHALL NOT BE USED UNLESS ALL EDGES ARE BLOCKED WITH MIN 2x FRAMING MEMBERS. PANELS INSTALLED AT LOCATIONS PERMANENTLY EXPOSED TO WEATHER SHALL BE GRADED WITH EXTERIOR EXPOSURE. THE LOWER GRADED VEENER IS INSTALLED FACING THE FRAMING.

ROOF SHEATHING	
THICKNESS & GRADE	19/32" C-D
EXPOSURE	EXPOSURE 1
PANEL INDEX	40/20
NAILING	8d @ 6" OC BN & EN; 8d @ 12" OC FN
BLOCKING	NONE

26. LAG SCREWS: ANSI/ASME STANDARD CUT B18.2.1-2012 2012 NDS FOR LAG SCREW DIMENSIONS. PRE-DRILL ALL HOLES. HOLE AT SHANK PORTION TO MATCH DIAMETER OF SHANK. HOLES AT THREADED PORTION TO BE 60 TO 70 PERCENT OF SHANK DIAMETER AND EQUAL TO LENGTH OF THREADED PORTION UNO. USE SOAP AND LUBRICANTS TO FACILITATE INSTALLATION. DRIVING WITH HAMMER IS NOT PERMITTED. EXPOSED STEEL SHALL BE HOT-DIPPED GALVANIZED.
27. LATERAL SUPPORT FOR BEAMS, RAFTERS AND JOISTS: CBC SECTION 2308.8.2 (JOISTS SHALL BE SUPPORTED LATERALLY AT THE ENDS AND AT EACH SUPPORT BY SOLID BLOCKING EXCEPT WHERE THE ENDS OF JOISTS ARE NAILED TO A HEADER, AND OR RIM JOIST OR TO AN ADJOINING STUD OR BY OTHER APPROVED MEANS. SOLID BLOCKING SHALL NOT BE LESS THAN 2 INCHES (51 mm) IN THICKNESS AND THE FULL DEPTH OF JOIST.)
28. BEAMS OR DRAG STRUTS: LAMINATED OR DOUBLE JOIST SHALL BE SPIKED TOGETHER WITH 16d NAILS AT 9" OC STAGGERED. IF USING 3 OR MORE JOIST TOGETHER, CONNECT WITH 1/2"Ø MACHINE BOLTS @ 24" OC STAGGERED.

NAILING NOTES

1. ALL NAILS TO BE COMMON UNLESS OTHERWISE SPECIFIED.
2. USE ONLY STAINLESS STEEL OR HOT DIP GALVANIZED (PER ASTM A 153 CLASS D) NAILS FOR TREATED WOOD CONNECTIONS.
3. ALL NAILS TO BE TRUESPEC HEAD ID FASTENERS AS MANUFACTURED BY TREE ISLAND STEEL (ICC ESR 1768, LARR 25895).
4. ALL SUBSTITUTIONS MUST BE SUBMITTED TO THE ENGINEER OF RECORD ALONG WITH A CURRENT ESR FOR APPROVAL.

TYPE 'D'	LENGTH (IN)	DIAMETER
8 COOLER	2 3/8	0.113
10 FRAMING LITE	3	0.120
16 FRAMING LITE	3 1/4	0.120
8 COMMON	2 1/2	0.131
10 FRAMING	3	0.131
16 SHORT	3 1/4	0.131
16 BOX	3 1/4	0.135
10 PLYWOOD	2 1/8	0.148
10 PLYWOOD	2 1/4	0.148
10 PLYWOOD	2 3/8	0.148
10 COMMON	3	0.148
16 SINKER	3 1/4	0.148
16 COMMON	3 1/2	0.162

TYPE 'HARDWARE'	LENGTH (IN)	DIAMETER
N8 HARDWARE	1 1/2	0.131
N10 HARDWARE	1 1/2	0.148
HARDWARE	2 1/2	0.131
HARDWARE	2 1/2	0.148
N16 HARDWARE	2 1/2	0.162

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED BY AN APPROVED AND LICENSED FABRICATOR IN ACCORDANCE WITH THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS (LATEST EDITION), AND WITH CHAPTER 22A OF THE CODE.
2. ALL STRUCTURAL STEEL SHALL CONFORM TO THE ASTM DESIGNATION AS INDICATED BELOW (UNO):

WF AND WT SHAPES	A992
PIPE COLUMNS	A53, GRADE B
HSS SECTIONS	A500, GRADE C
HIGH-STRENGTH BOLTS	F3125, GRADE F1852
HEADED BOLTS IN CONCRETE/MASONRY/WOOD	A307, GRADE A
ANGLES, CHANNELS, PLATES	A36
THREADED ANCHOR RODS	F1554, GRADE 36 UNO

3. THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP DRAWINGS TO THE ARCHITECT OF ALL STEEL FOR ARCHITECTS, AND STRUCTURAL ENGINEERS, REVIEW AND APPROVAL BEFORE FABRICATION.
4. BOLT HOLES USED IN STEEL SHALL BE 1/16" LARGER IN DIAMETER THAN NOMINAL SIZE OF BOLT USED, EXCEPT AS NOTED.
5. ALL STRUCTURAL STEEL SURFACES THAT ARE ENCASED IN CONCRETE, OR MASONRY, SPRAY ON FIREPROOFING, OR ARE ENCASED BY BUILDING FINISH, SHALL BE LEFT UNPAINTED.
6. ALL WELDING IS TO BE DONE BY CERTIFIED WELDERS APPROVED USING E70XX ELECTRODES (UNO). ALL WELDS SHALL BE IN CONFORMITY WITH THE PROJECT SPECIFICATIONS AND THE CODE FOR WELDING IN BUILDING CONSTRUCTION (AWS D1.1 LATEST REVISION) OF THE AMERICAN WELDING SOCIETY. SEE SPECIAL INSPECTIONS SECTION FOR WELDING INSPECTION REQUIREMENTS.
7. WELD LENGTHS CALLED FOR ON PLANS ARE THE NET EFFECTIVE LENGTH REQUIRED. WHERE FILLET WELD SYMBOL IS GIVEN WITHOUT INDICATION OF SIZE, USE MINIMUM SIZE WELDS AS SPECIFIED IN AISC 360, TABLE J2.4.
8. ALL EXPOSED STRUCTURAL STEEL AND MISCELLANEOUS METAL SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
9. ALL GROOVE WELDS SHALL BE COMPLETE JOINT PENETRATION UNLESS NOTED OTHERWISE.
10. WHERE FINISH IS ATTACHED TO STRUCTURAL STEEL PROVIDE 1/2"DIA. BOLT HOLES @ 48" OC @ W, C, L, MEMBERS AND 1/2"Ø WELDED STUDS @ 48" OC @ TUBE & PIPE MEMBERS FOR ATTACHMENT OF NAILERS, SEE ARCHITECTURAL DRAWINGS FR FINISHES.
11. SEISMIC LOAD RESISTING SYSTEM (SLRS) IS DEFINED AS THE ASSEMBLY OF STRUCTURAL ELEMENTS IN THE BUILDING THAT RESISTS SEISMIC LOADS, INCLUDING COLUMNS, BEAMS, GIRDERS, STRUTS, COLLECTORS, CHORDS AND BRACING AND THE CONNECTIONS BETWEEN THESE ELEMENTS SPECIFICALLY DESIGN TO RESIST SEISMIC FORCES, AS DESIGNATED ON THE DRAWINGS.
12. WELD MATERIALS USED IN SLRS WELD CONNECTIONS SHALL CONFORM TO THE FOLLOWING TOUGHNESS REQUIREMENTS:
    A. WELD CONNECTIONS SHALL BE MADE WITH A FILLER METAL THAT CAN PRODUCE WELDS THAT HAVE A MINIMUM CHARPHY V-NOTCH TOUGHNESS OF 20 FT-LB AT 0 DEGREES F AS DETERMINED BY THE APPROPIATE AWS CLASSIFICATION TEST METHOD
    B. WELDED CONNECTIONS DESIGNED AS 'DEMAND CRITICAL' SHALL BE MADE WITH A FILLER METAL CAPABLE OF PROVIDING A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LB AT 20 DEGREES F AS DETERMINED BY THE APPROPIATE AWS CLASSIFICATION TEST METHOD, AND 40 FT-LB AT 70 DEGREES F AS DETERMINED BY APPENDIX X OF ANSI/AISC 341.

STRUCTURAL COMPOSITE LUMBER (SCL)

1. STRUCTURAL COMPOSITE LUMBER (SCL) SHALL HAVE A CURRENT PRODUCT EVALUATION REPORT FROM THE INTERNATIONAL CODE COUNCIL (ICC) EVALUATION SERVICES, CBC SECTION 2303.1.9 AND ASTM D5456.

   STRUCTURAL COMPOSITE LUMBER GRADES SHALL BE AS FOLLOWS:

BOISE CASCADE:	VERSA-LAM (ESR 1040)
TRUSS JOIST:	2.2E PARALLAM (ESR 1387)
	2.0E MICRO=LAM (ESR 1387)
	1.55E TIMBERSTRAND (ESR 1387)
ROSEBURG:	RIGIDLAM LVL (ESR 1210)
LOUISIANA PACIFIC:	SOLIDSTART LVL & LSL (ESR 2403)

2. WHERE DOUBLE JOISTS ARE INDICATED ON PLANS, MANUFACTURER OR CONTRACTOR SHALL CONNECT THE JOISTS PER MANUFACTURER'S RECOMMENDATIONS.
3. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR STOCKING THE JOISTS ON SITE DURING CONSTRUCTION, JOISTS SHALL NOT BE IN CONTACT WITH THE GROUND.
4. SCL MAY BE NOTCHED OR DRILLED ONLY WHERE SPECIFICALLY SHOWN ON THE DESIGN DOCUMENTS OR WHERE SPECIFICALLY APPROVED BY THE SEOR AND BY THE PLAN CHECK AGENCY. WHERE APPROVED, NOTCHING/DRILLING SHALL BE IN ACCORDANCE WITH NDS SECTION 8.4.1.
5. THE MEMBER PROPERTIES SHALL BE AS FOLLOW:

MICROLLAM LVL 2.0E	TIMBER STRAND LSL 1.55E	PARALLAM PSL 2.2E

JOIST/BEAM ORIENTATION

E (ksi)	2,000	1,550	2,200
Emin (ksi)	1,016	788	1,118
Fb (psi)	2,600	2,325	2,900
Fv (psi)	285	310	290
Fc-perp (psi)	750	900	625

6. SUBSTITUTIONS OF ALTERNATE PRODUCTS WILL BE CONSIDERED ONLY IF THE FOLLOWING CONDITIONS ARE MET:
   - ALTERNATE PRODUCT AND MANUFACTURER SHALL HAVE AN ICC OR IAPMO APPROVAL.
   - DESIGN MUST MEET THE CONDITIONS ABOVE.
   - ANALYSIS, DRAWINGS AND DETAILS SHALL BE SIGNED AND STAMPED BY A CALIFORNIA CIVIL ENGINEER AND BE SUBMITTED TO THE STRUCTURAL.
   - ENGINEER OF RECORD (SEOR) FOR REVIEW, THEN TO THE PLAN CHECKING AGENCY FOR APPROVAL.
   - ALL COSTS INVOLVED FOR REDESIGN, REVIEW BY THE SEOR AND APPROVAL BY THE A PLANCHECKING AGENCY SHALL BE PAID FOR BY THE CONTRACTOR.
   - ALL COSTS INVOLVED FOR ANY NECESSARY MODIFICATIONS TO THE EXISTING APPROVED DRAWINGS BECAUSE OF THE SUBSTITUTION SHALL BE PAID FOR BY THE CONTRACTOR, INCLUDING ENGINEERING COSTS TO THE SEOR AND REVIEW COSTS TO THE PLAN CHECKING AGENCY.
   - SUBSTITUTION SHALL BE SUBMITTED WITH ENOUGH TIME FOR REVIEW AND APPROVAL AS DESCRIBED ABOVE WITHOUT ANY NEGATIVE IMPACT ON THE CONSTRUCTION SCHEDULE. REVIEW TIME BY THE SEOR IS (10) BUSINESS DAYS FOR EACH SUBMITTAL. AP

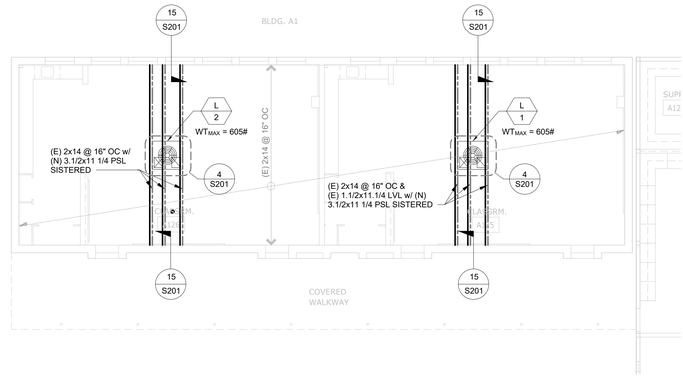
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Project # 2025-164-02-08 Abbott ES_R26

FRAMING NOTES:

1. FOR GENERAL NOTES AND ABBREVIATIONS SEE SHEETS **S001 & S002**.
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3. VERIFY ALL DIMENSIONS, ELEVATIONS, FINISH SURFACES, FINISH FLOORS, SLOPES, DRAINS, DEPRESSIONS, CURBS, EDGE OF SLABS, HOUSEKEEPING PADS, EQUIPMENT LOCATIONS, LANDSCAPE ELEMENTS, ETC WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION.

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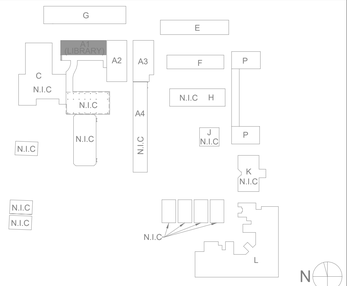


REF. NORTH

BLDG A1 ROOF FRAMING PLAN

1/8" = 1'-0"

1



KEY PLAN

NOT TO SCALE

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-126114 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 09/15/2026

optimum energy design
Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
Telephone (714) 693-2277

STAMP

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL

CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1
2		
3		
4		

JOB NO: 501-26-0032
DATE: 09/04/2026
DRAWN: --
CHECK: --
ARCHITECT: PETRA
ENGINEER: OED
DSA NUMBER: 03-126114

CONSULTANT

PETRA
STRUCTURAL ENGINEERS
17981 Sky Park Circle
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Irvine, CA 92614
Tel: (949) 748-7170

STAMP

REGISTERED PROFESSIONAL ENGINEER
PETER
No. 5838
Exp. 6/30/2027
STRUCTURAL
STATE OF CALIFORNIA

SHEET DESCRIPTION:

BLDG A1 ROOF FRAMING PLAN

SHEET NO:

S111

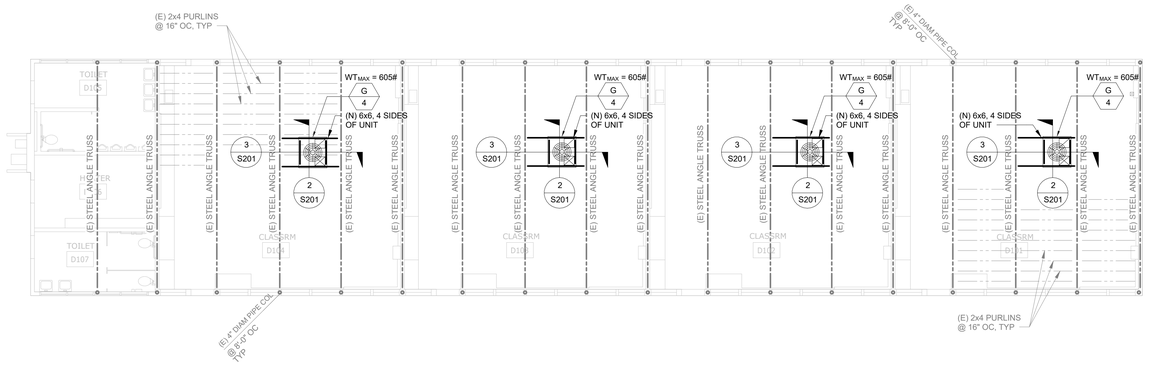
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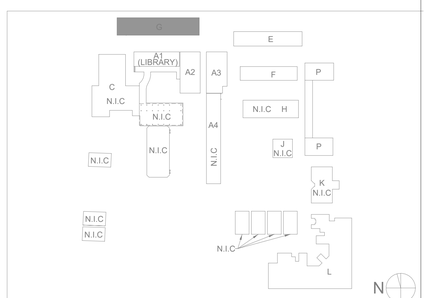


REF NORTH

BLDG G ROOF FRAMING PLAN

1/8" = 1'-0"

1



KEY PLAN

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optimum energy design
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CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1

JOB NO: 501-26-0032
DATE: 09/04/2026
DRAWN: --
CHECK: --
ARCHITECT: PETRA
ENGINEER: OED
DSA NUMBER: 03-126114

CONSULTANT

PETRA
STRUCTURAL ENGINEERS
17981 Sky Park Circle
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Irvine, CA 92614
Tel: (949) 748-7170

STAMP

REGISTERED PROFESSIONAL ENGINEER PETER S. KIM No. 5[illegible] Exp. 6/30/27 STRUCTURAL STATE OF CALIFORNIA

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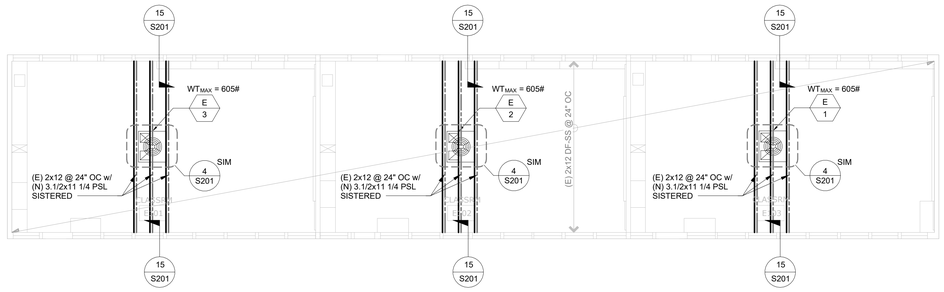
BLDG G ROOF FRAMING PLAN

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Project # 2025-164-02-08 Abbott ES_R26



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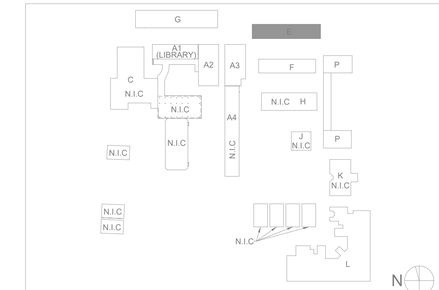
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REF. NORTH

BLDG E ROOF FRAMING PLAN

1/8" = 1'-0"

1



KEY PLAN

NOT TO SCALE

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optimum energy design
Consulting Engineers
5200 E. La Palma Ave
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Telephone (714) 693-2277

STAMP

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ABBOTT ELEMENTARY SCHOOL

CLARK STREET
LYNWOOD, CA 90262

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ENGINEER: OED
DSA NUMBER: 03-126114

CONSULTANT

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STAMP

REGISTERED PROFESSIONAL ENGINEER
PETER K. KAR
No. 5[illegible]
Exp. 6/30/27
STRUCTURAL
STATE OF CALIFORNIA

SHEET DESCRIPTION:

BLDG E ROOF FRAMING PLAN

SHEET NO:

S131

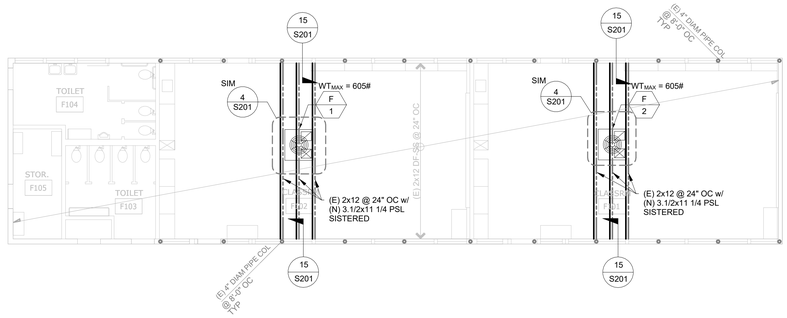
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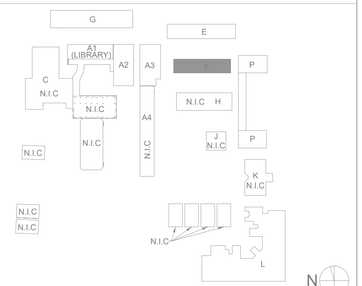
Project # 2025-164-02-08 Abbott ES_R26

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KEY PLAN

NOT TO SCALE

REF. NORTH

BLDG F ROOF FRAMING PLAN

1/8" = 1'-0"

1

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optimum energy design
Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
Telephone (714) 693-2277

STAMP

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL

CLARK STREET
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CHECK: --
ARCHITECT: PETRA
ENGINEER: OED
DSA NUMBER: 03-126114

CONSULTANT

PETRA
STRUCTURAL ENGINEERS
17981 Sky Park Circle
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Irvine, CA 92614
Tel: (949) 748-7170

STAMP

REGISTERED PROFESSIONAL ENGINEER
PETER S. KIM
No. 5838
Exp. 6/30/2027
STRUCTURAL
STATE OF CALIFORNIA

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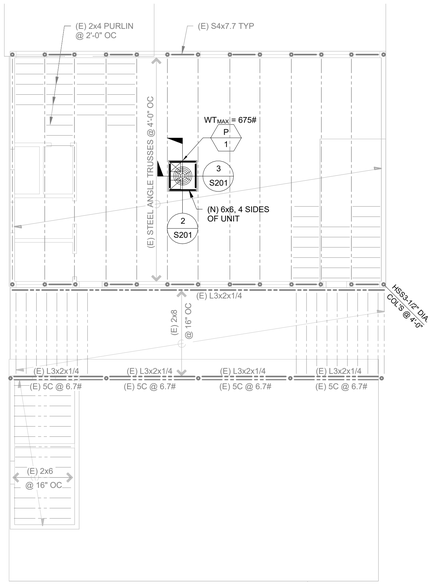
BLDG F ROOF FRAMING PLAN

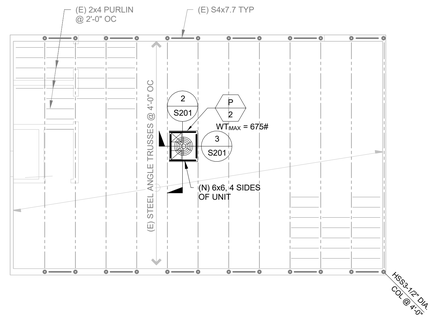
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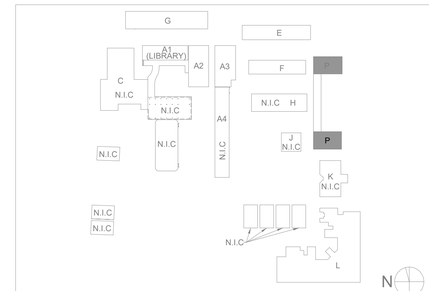
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N REF NORTH

BLDG P ROOF FRAMING PLAN

1/8" = 1'-0"

1



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optimum energy design
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ARCHITECT: PETRA
ENGINEER: OED
DSA NUMBER: 03-126114

CONSULTANT

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STRUCTURAL ENGINEERS
17981 Sky Park Circle
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Irvine, CA 92614
Tel: (949) 748-7170

STAMP

REGISTERED PROFESSIONAL ENGINEER
PETER [illegible]
No. 5[illegible]
Exp. 6/30/27
STRUCTURAL
STATE OF CALIFORNIA

SHEET DESCRIPTION:

BLDG P ROOF FRAMING PLAN

SHEET NO:

S151

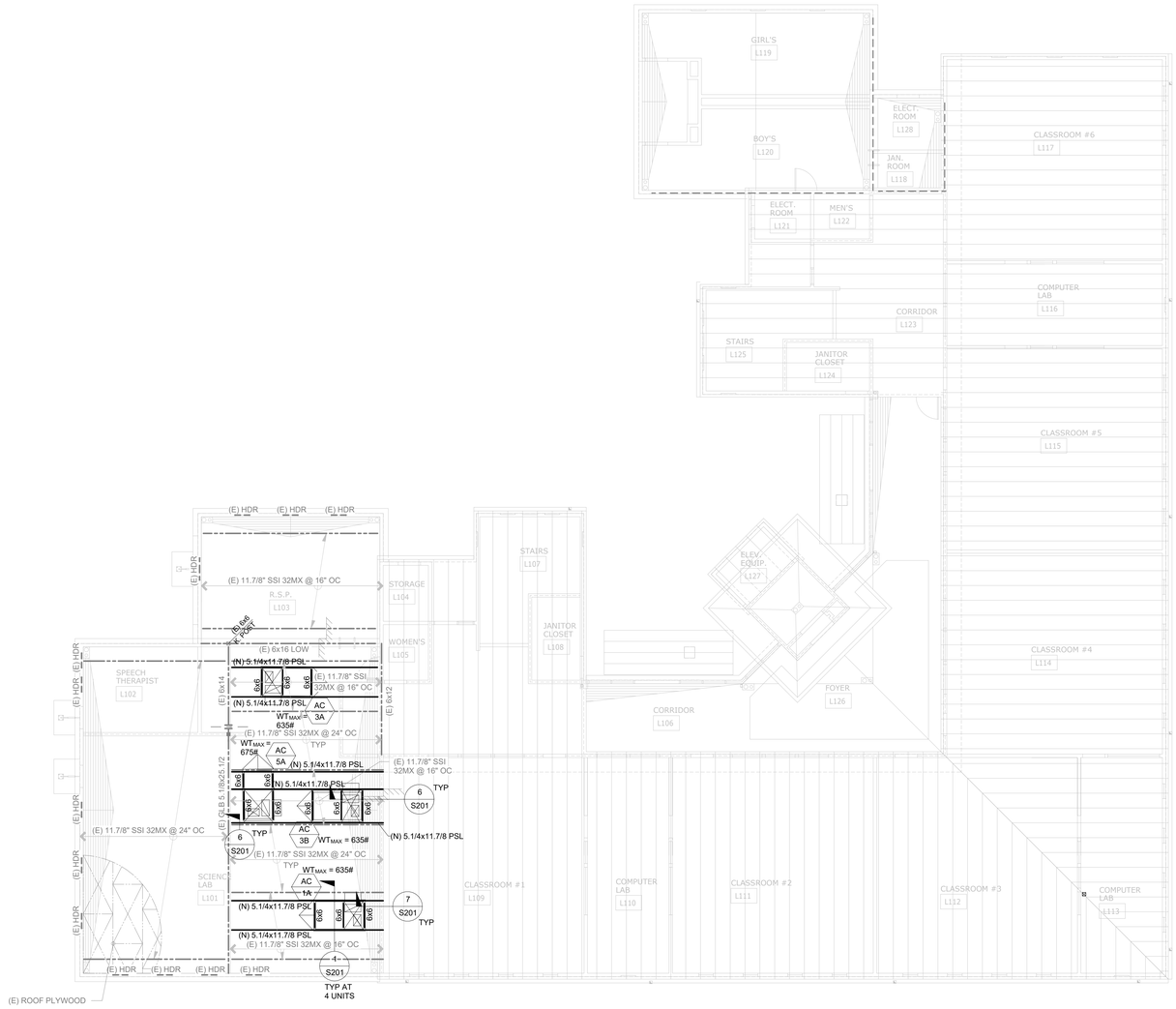
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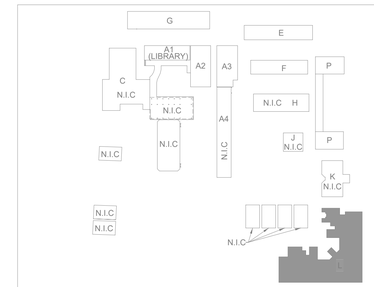


REF. NORTH

BLDG L SECOND FLOOR FRAMING PLAN

1/8" = 1'-0"

1



KEY PLAN

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optimum energy design
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Telephone (714) 693-2277

STAMP

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL
CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1

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ARCHITECT:	PETRA
ENGINEER:	OED
DSA NUMBER:	03-126114

CONSULTANT

PETRA STRUCTURAL ENGINEERS
17981 Sky Park Circle
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Irvine, CA 92614
Tel: (949) 748-7170

STAMP

REGISTERED PROFESSIONAL ENGINEER PETER C. KIM No. 5[illegible] Exp. 6/30/2027 STRUCTURAL STATE OF CALIFORNIA

SHEET DESCRIPTION:

BLDG L SECOND FLOOR FRAMING PLAN

SHEET NO:

S161

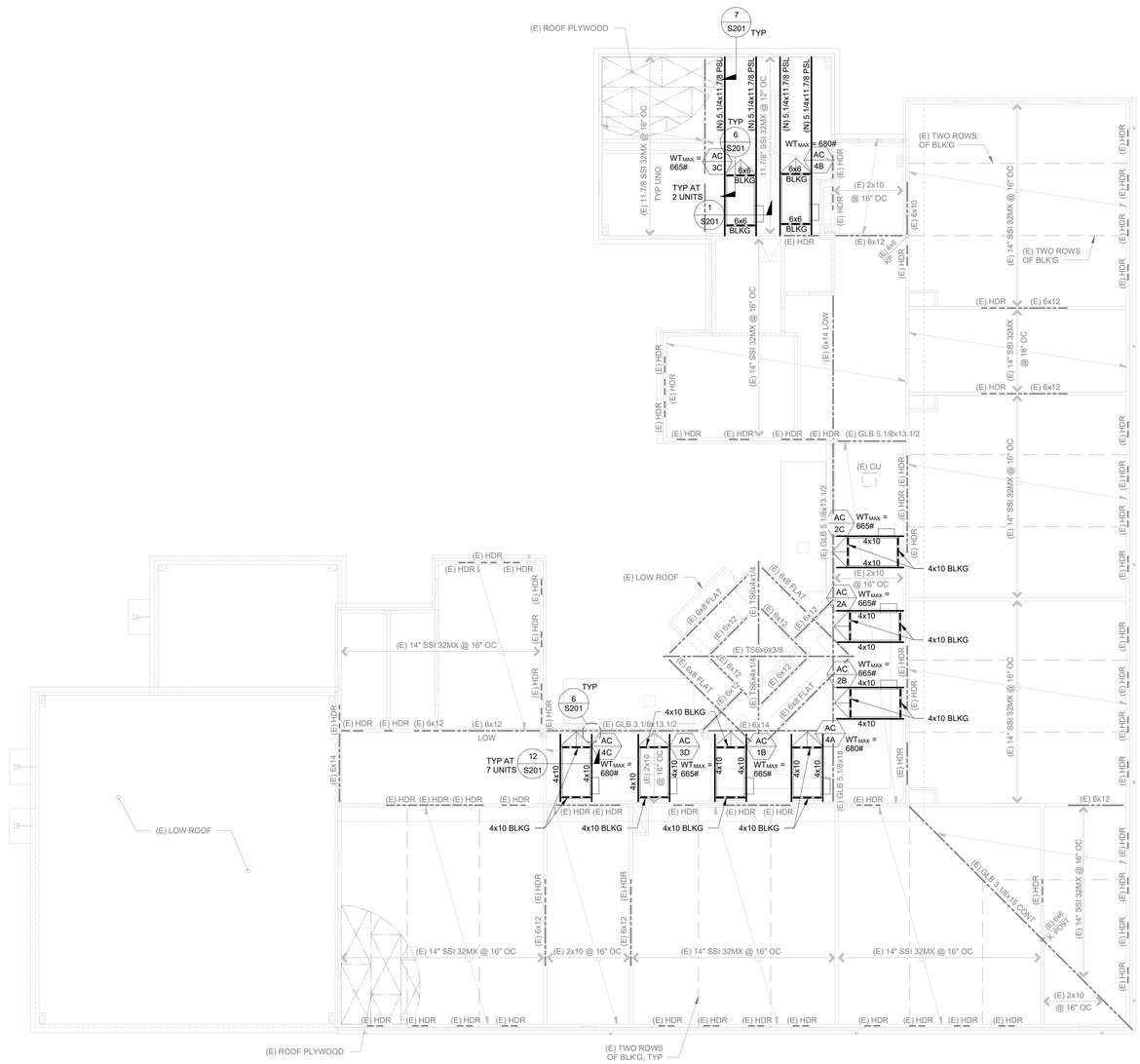
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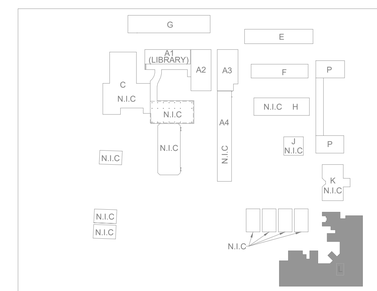
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2. FOR MECHANICAL ANCHORAGE SUPPORT FRAMING DETAILS SEE SHEET **S201**.
3. VERIFY ALL DIMENSIONS, ELEVATIONS, FINISH SURFACES, FINISH FLOORS, SLOPES, DRAINS, DEPRESSIONS, CURBS, EDGE OF SLABS, HOUSEKEEPING PADS, EQUIPMENT LOCATIONS, LANDSCAPE ELEMENTS, ETC WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION.

NOTE:
(E) CONDITIONS ARE SHOWN TO THE BEST OF OUR KNOWLEDGE AND BASED ON DRAWINGS NOT PREPARED BY PETRA STRUCTURAL ENGINEERS. THE CONTRACTOR SHOULD VERIFY ALL (E) FIELD CONDITIONS BEFORE COMMENCING WORK. THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER IF CONDITIONS ARE DIFFERENT THAN SHOWN.



N BLDG L ROOF FRAMING PLAN 1/8" = 1'-0"



KEY PLAN — NOT TO SCALE

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-126114 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 09/15/2026

optimum energy design
Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
Telephone (714) 693-2277

STAMP

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL

CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1
2		
3		
4		

JOB NO:	501-26-0032
DATE:	09/04/2026
DRAWN:	--
CHECK:	--
ARCHITECT:	PETRA
ENGINEER:	OED
DSA NUMBER:	03-126114

CONSULTANT

PETRA STRUCTURAL ENGINEERS
17981 Sky Park Circle
Suite O
Irvine, CA 92614
Tel: (949) 748-7170

STAMP

REGISTERED PROFESSIONAL ENGINEER PETER C. KAT No. 5[illegible] Exp. 6/30/27 STRUCTURAL STATE OF CALIFORNIA

SHEET DESCRIPTION:

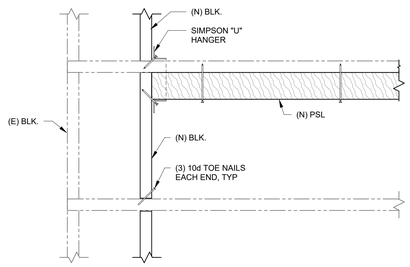
BLDG L ROOF FRAMING PLAN

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S162

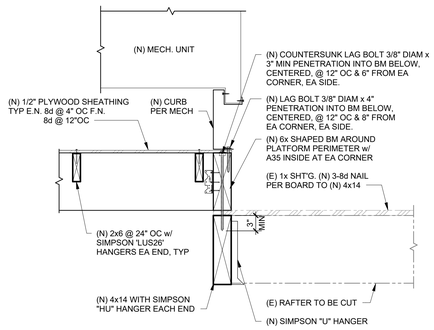
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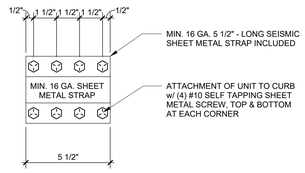
DETAIL

SCALE: NTS 13



SECTION

SCALE: NTS 9

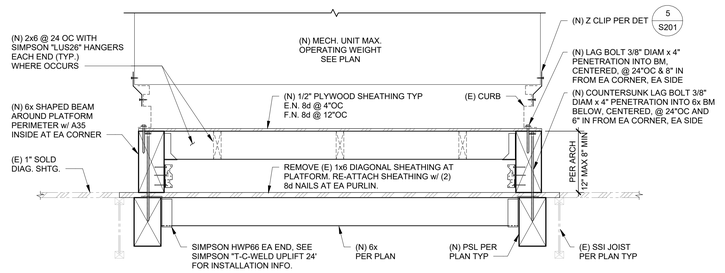


TYPICAL DETAIL NOTES & Z CLIP

SCALE: NTS 5

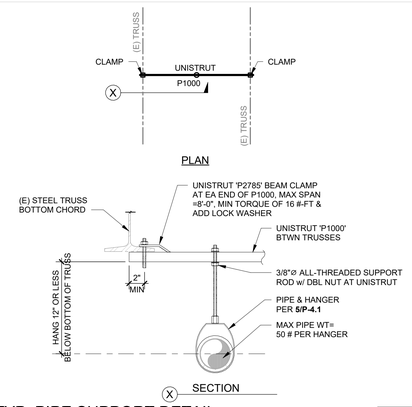
NOTE:

1. PLACE (N) BEAM ADJACENT TO (E) SSI JOIST TO INSTALL HANGER FOR BEAM
2. FOR UNIT CURB, RAILS, CLIPS & FASTENERS, SEE 6/M-4.1



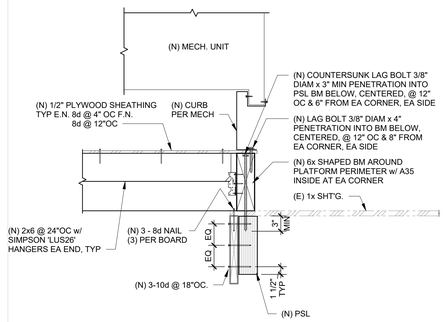
ROOF CURB ANCHORAGE BLDG. L

SCALE: NTS 1



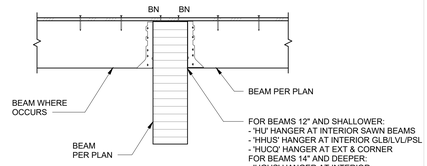
TYP. PIPE SUPPORT DETAIL

SCALE: NTS 14



SECTION

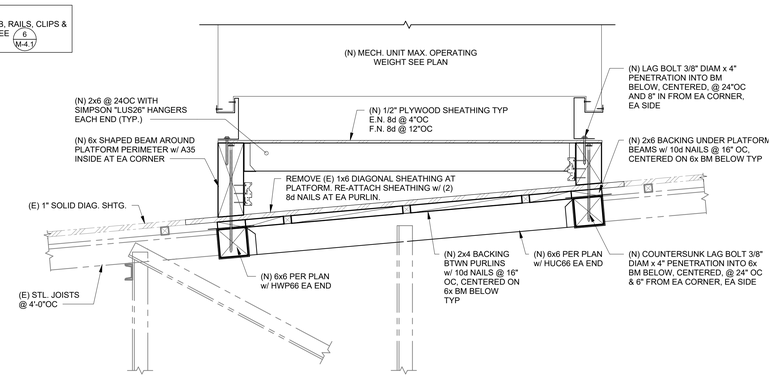
SCALE: NTS 10



TYPICAL BEAM TO BEAM

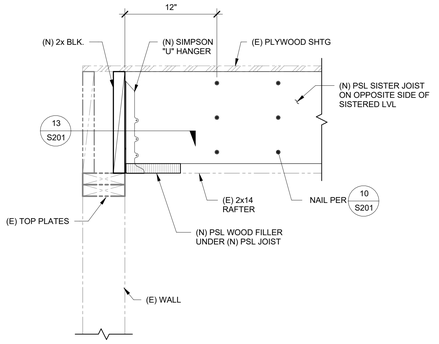
SCALE: NTS 6

NOTE:
FOR UNIT CURB, RAILS, CLIPS & FASTENERS, SEE 6/M-4.1



MECH ROOF PLATFORM BLDG G & P, PERP TO TRUSS

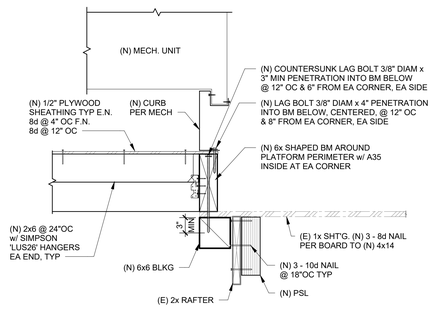
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DETAIL

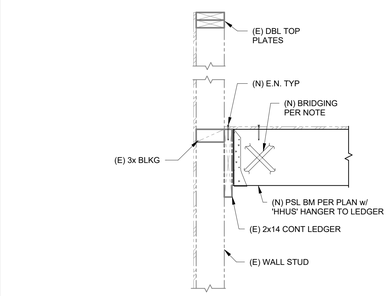
SCALE: NTS 15

NOTE: REMOVE (E) BRIDGING TO INSTALL NEW BEAM. INSTALL (N) 2x3 CROSS-BRIDGING w/ (2) 16d TOE NAILS EA END.



SECTION

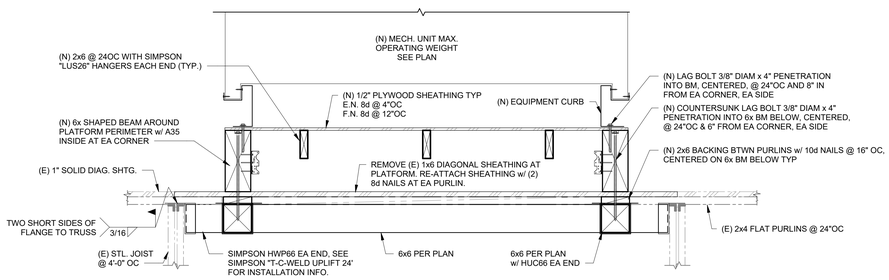
SCALE: NTS 11



BEAM TO WALL CONNECTION

SCALE: NTS 7

NOTE:
FOR UNIT CURB, RAILS, CLIPS & FASTENERS, SEE 6/M-4.1

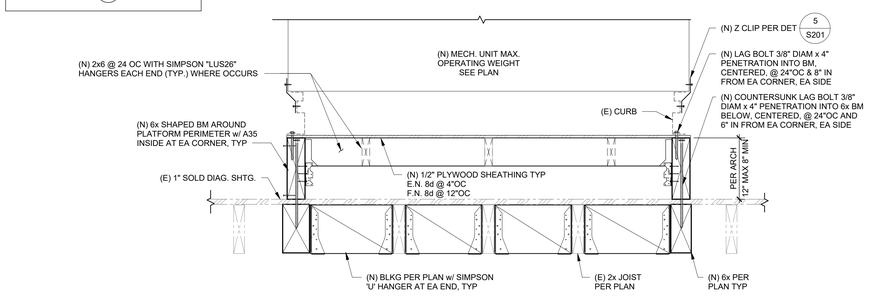


MECH ROOF PLATFORM BLDG G & P, PARALLEL TO TRUSS

SCALE: NTS 3

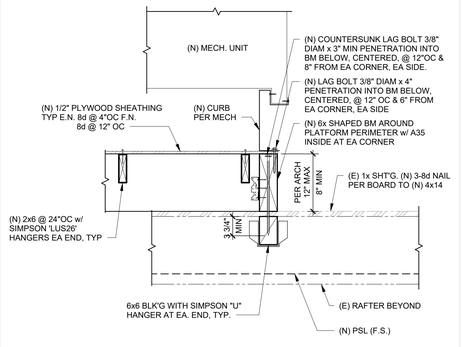
NOTE:

1. PLACE (N) BEAM ADJACENT TO (E) SSI JOIST TO INSTALL HANGER FOR BEAM
2. FOR UNIT CURB, RAILS, CLIPS & FASTENERS, SEE 3/M-4.1



ROOF CURB ANCHORAGE BLDG L

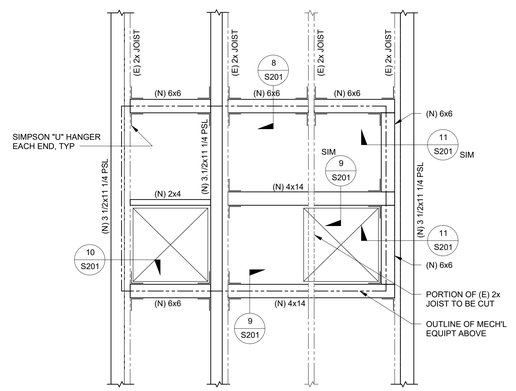
SCALE: NTS 12



SECTION

SCALE: NTS 8

NOTE:
FOR UNIT CURB, RAILS, CLIPS & FASTENERS, SEE 6/M-4.1



NOTE:
SISTER JOISTS AS SHOWN WITH NEW LVL EVEN IF EXISTING JOISTS HAVE ALREADY BEEN STRENGTHENED.

MECHANICAL SUPPORT FRAMING PLAN BLDG A1, E, F

SCALE: NTS 4

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-126114 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 09/15/2026

optimum energy design
Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
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STAMP

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL

CLARK STREET
LYNWOOD, CA 90262

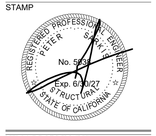
No.	Rev. Date	Description
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JOB NO:	501-26-0032
DATE:	09/04/2026
DRAWN:	--
CHECK:	--
ARCHITECT:	PETRA
ENGINEER:	OED
DSA NUMBER:	03-126114

CONSULTANT

PETRA
STRUCTURAL ENGINEERS
17981 Sky Park Circle
Suite O
Irvine, CA 92614
Tel: (949) 748-7170

STAMP



SHEET DESCRIPTION:

DETAILS

SHEET NO:

S201

GENERAL NOTES

----- GENERAL NOTES -----

1. ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE 2025 CALIFORNIA MECHANICAL CODE, 2025 CALIFORNIA BUILDING CODE, AND ALL OTHER APPLICABLE CODES AND REGULATIONS, INCLUDING 2025 BUILDING ENERGY EFFICIENCY STANDARDS DIVISION T-24.

2. 2025 CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE INCLUDING THE APPLICABLE MANDATORY MEASURES:

- COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION PER CALGREEN REQUIREMENTS.
- ADHESIVES, SEALANTS AND CAULKS SHALL MEET CALGREEN REQUIREMENTS
- FILTERS SHALL BE A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 13 OR AS SPECIFIED
- INSTALLATIONS OF HVAC AND REFRIGERATION EQUIPMENT SHALL COMPLY WITH SECTIONS 5.508.1.1 AND 5.508.1.2.
- AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING AND COOLING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUCT OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM.
- ADHESIVES, SEALANTS, AND CAULKS USED ON THE PROJECT SHALL MEET THE FOLLOWING REQUIREMENTS.

SPECIALITY APPLICATIONS.	CURRENT VOC LIMIT
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325

- ALL VOC'S MUST COMPLY WITH THE LIMITATIONS LISTED IN SECTION 5.504.4 AND TABLES 4.504.1, 5.504.4.1, 5.504.4.2, 5.504.4.3. AND 5.504.4.5 FOR ADHESIVES, SEALANTS, PAINTS AND COATINGS, CARPET AND COMPOSITION WOOD PRODUCTS. CAL GREEN CODE 5.504.4.
- IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, USE RETURN AIR FILTERS WITH MINIMUM MERV OF 8. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY.
- INSTALLER AND SPECIAL INSPECTORS SHALL MEET ALL QUALIFICATIONS LISTED IN SECTION 702 OF THE 2025 CALIFORNIA GREEN BUILDING STANDARDS CODE.
- BUILDINGS SHALL MEET OR EXCEED THE PROVISIONS OF 2025 CALIFORNIA BUILDING CODE, CCR, TITLE 24, PART 2, SECTIONS 1202 (VENTILATION).
- A BUILDING SYSTEMS MANUAL AS LISTED IN THE CALIFORNIA GREEN CODE SECTION 5.410.2.5 SHALL BE DELIVERED TO THE BUILDING OWNER AND THE FACILITIES OPERATOR. THE SYSTEMS MANUAL SHALL CONTAIN THE REQUIRED FEATURES LISTED IN THE CALIFORNIA GREEN CODE SECTION 5.410.2.5.1.
- INSTALLATION OF HVAC, REFRIGERATION, AND FIRE SUPPRESSION SYSTEMS SHALL NOT CONTAIN CFC'S OR HALONS PER CALIFORNIA GREEN CODE 5.508.1.
- DURING CONSTRUCTION, ENDS OF DUCT OPENINGS ARE TO BE SEALED, AND MECHANICAL EQUIPMENT IS TO BE COVERED. CGC 5.504.3.
- PRIOR TO FINAL APPROVAL OF THE BUILDING THE LICENSED CONTRACTOR, ARCHITECT OR ENGINEER IN RESPONSIBLE CHARGE OF THE CONSTRUCTION MUST COMPLETE AND SIGN THE GREEN BUILDING STANDARDS CERTIFICATION FORM AND GIVEN TO THE BUILDING DEPARTMENT OFFICIAL TO BE FILED WITH THE APPROVED PLANS.
- CONTRACTOR SHALL COORDINATE WITH DISTICT TO PROVIDE READILY ACCESSIBLE AREAS THAT SERVE THE ENTIRE BUILDING AND ARE IDENTIFIED FOR THE DEPOSITING, STORAGE AND COLLECTION OF NON-HAZARDOUS MATERIALS FOR RECYCLING, INCLUDING (AT A MINIMUM) PAPER, CORRUGATED CARDBOARD, GLASS, PLASTICS, ORGANIC WASTE AND METALS, OR MEET A LAWFULLY ENACTED LOCAL RECYCLING ORDINANCE, IF MORE RESTRICTIVE.

A. 5.408.1 CONSTRUCTION WASTE MANAGEMENT
- RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 65 PERCENT OF THE NONHAZARDOUS CONSTRUCTION AND DEMOLITION WASTE IN ACCORDANCE WITH SECTIND 5.408.1.1, 5.408.1.2 OR 5.408.1.3, OR MEET A LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE, WHICHEVER IS MORE STRINGENT.

B. 5.408.1.1 CONSTRUCTION WASTE MANAGEMENT PLAN
- WHERE A LOCAL JURISDICTION DOES NOT HAVE A CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE THAT IS MORE STRINGENT, SUBMIT A CONSTRUCTION WASTE MANAGEMENT PLAN THAT: IDENTIFIES THE CONSTRUCTION AND DEMOLITION WASTE MATERIALS TO BE DIVERTED FROM DISPOSAL BY EFFICIENT USAGE, RECYCLING, REUSE ON THE PROJECT OR SALVAGE FOR FUTURE USE OR SALE. DETERMINES IF CONSTRUCTION AND DEMOLITION WASTE MATERIALS WILL BE SORTED ON-SITE (SOURCE-SEPARATED) OR BULK MIXED (SINGLE STREAM). IDENTIFIES DIVERSION FACILITIES WHERE CONSTRUCTION AND DEMOLITION WASTE MATERIAL COLLECTED WILL BE TAKEN. SPECIFIES THAT THE AMOUNT OF CONSTRUCTION AND DEMOLITION WASTE MATERIALS DIVERTED SHALL BE CALCULATED BY WEIGHT OR VOLUME, BUT NOT BY BOTH.

C. 5.408.1.2 WASTE MANAGEMENT COMPANY
- UTILIZE A WASTE MANAGEMENT COMPANY THAT CAN PROVIDE VERIFIABLE DOCUMENTATION THAT THE PERCENTAGE OF CONSTRUCTION AND DEMOLITION WASTE MATERIAL DIVERTED FROM THE LANDFILL COMPLIES WITH THIS SECTION.

NOTE: THE OWNER OR CONTRACTOR SHALL MAKE THE DETERMINATION IF THE CONSTRUCTION AND DEMOLITION WASTE MATERIAL WILL BE DIVERTED BY A WASTE MANAGEMENT COMPANY.

D. EXCEPTIONS TO SECTIONS 5.408.1.1 AND 5.408.1.2:
- EXCAVATED SOIL AND LAND-CLEARING DEBRIS. ALTERNATE WASTE REDUCTION METHODS DEVELOPED BY WORKING WITH LOCAL AGENCIES IF DIVERSION OR RECYCLE FACILITIES CAPABLE OF COMPLIANCE WITH THIS ITEM DO NOT EXIST. DEMOLITION WASTE MEETING LOCAL ORDINANCE OR CALCULATED IN CONSIDERATION OF LOCAL RECYCLING FACILITIES AND MARKETS.

E. 5.408.1.3 WASTE STREAM REDUCTION ALTERNATIVE
- THE COMBINED WEIGHT OF NEW CONSTRUCTION DISPOSAL THAT DOES NOT EXCEED TWO POUNDS PER SQUARE FOOT OF BUILDING AREA MAY BE DEEMED TO MEET THE 65 PERCENT MINIMUM REQUIREMENT AS APPROVED BY THE ENFORCING AGENCY.

3. COORDINATE ENTIRE INSTALLATION OF THE HVAC SYSTEM WITH THE WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS AS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ITEMS TO BE PROVIDED BY OTHER TRADES WHERE MENTIONED IN THE CONTRACT DOCUMENTS PRIOR TO BID - NO EXCEPTIONS.

4. COORDINATE THE LOCATIONS OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES WITH THE ARCHITECTURAL REFLECTIVE CEILING PLAN, ELECTRICAL LIGHTING LAYOUT AND ARCHITECTURAL ROOM ELEVATIONS. THE ARCHITECT AND ENGINEER SHALL BE IMMEDIATELY NOTIFIED OF ANY CONFLICTS PRIOR TO FABRICATION AND INSTALLATION.

5. CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER OF CONSTRUCTION PHASING PRIOR TO START OF CONSTRUCTION, REMOVAL, AND/OR REPLACEMENT OF ANY EQUIPMENT. CONTRACTOR SHALL RECEIVE PERMISSION IN WRITING PRIOR TO THE START OF ANY WORK DURING ANY PHASE FOR WORK SHOWN HEREIN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT WORK AND ARRANGE HIS WORK IN A MANNER THAT WILL CAUSE MINIMAL INTERFERENCE WITH DAILY FUNCTIONS WITHIN THE FACILITY. ANY EXPECTED DOWNTIME SHALL BE COORDINATED WITH THE OWNER.

6. ALL EQUIPMENT, DUCTS, PIPING, AND OTHER DEVICES AND MATERIALS INSTALLED OUTSIDE OF THE BUILDING OR OTHERWISE EXPOSED TO THE WEATHER SHALL BE COMPLETELY WEATHER-PROOFED AND PAINTED TO MATCH, COORDINATE WITH ARCHITECT PRIOR TO PAINTING.

7. THE OWNER ACKNOWLEDGES THAT THE DESIGN PROFESSIONAL'S PLANS ARE INSTRUMENTS OF PROFESSIONAL SERVICE. NEVERTHELESS, THE PLANS PREPARED UNDER THIS AGREEMENT SHALL BECOME THE PROPERTY OF THE OWNER UPON COMPLETION OF THE WORK. THE OWNER AGREES TO HOLD HARMLESS AND INDEMNIFY THE DESIGN PROFESSIONAL AGAINST ALL DAMAGES, CLAIMS AND LOSSES, INCLUDING DEFENSE COSTS, ARISING OUT OF ANY RESCUE OF THE PLANS WITHOUT THE WRITTEN AUTHORIZATION OF THE DESIGN PROFESSIONAL.

8. ALL DIMENSIONS SHOWN ON THESE PLANS ARE APPROXIMATE AND MUST BE CONFIRMED ON SITE.

9. PRIOR TO OCCUPANCY, THE ENTIRE H,V.A.C. SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH (AABC) ASSOCIATED AIR BALANCE COUNCIL STANDARDS BY AN INDEPENDENT AIR BALANCE CONTRACTOR. CERTIFICATION SHALL BE PROVIDED BY THE CONTRACTOR OR AIR AS APPLICABLE. SYSTEMS SHALL BE BALANCED AS INDICATED ON PLANS INCLUDING FRESH AIR VENTILATION. WHERE THERE IS A CONFLICT WITH THE MECHANICAL PLANS, THE AIR BALANCE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO BALANCING OF SYSTEM. IF NOT THE AIR BALANCE CONTRACTOR SHALL BEAR ALL COSTS INCURRED FOR WORK THAT MUST BE RE-BALANCED DUE TO CONFLICTS ON CONTRACT DOCUMENTS. CONTRACTOR SHALL PROVIDE THREE COPIES OF THE AIR BALANCE REPORT TO THE ENGINEER FOR APPROVAL.

10. FOR INACCESSIBLE AREAS THE CONTRACTOR SHALL PROVIDE ACCESS PANELS FOR ALL DAMPERS, EQUIPMENT, SMOKE DETECTORS, AND CONTROL DEVICES. THESE PANELS SHALL MATCH THE RATING OF THE WALL AND/OR CEILING THAT THEY ARE LOCATED IN. MINIMUM ACCESS PANEL SIZES SHALL BE AS FOLLOWS:

1) HAND ACCESS: 12"x12"

2) BODY ACCESS: 30"x30" MIN. WHERE A LARGER ACCESS SIZE IS REQUIRED DUE TO INSTALLATION CONSTRAINTS, THE CONTRACTOR SHALL DO SO AT NO ADDITIONAL COST AND SHALL NOTIFY THE ARCHITECT AND ENGINEER OF DEVIATIONS PRIOR TO INSTALLATION.

11. ALL EQUIPMENT, ACCESSORIES, AND RELATED PIPING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, DAMPERS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.

12. MAINTENANCE LABEL SHALL BE AFFIXED TO ALL MECHANICAL EQUIPMENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED FOR THE OWNER'S USE.

13. PROVIDE MERV 13 EFFICIENCY THROWAWAY FILTERS FOR ALL AIR CONDITIONING UNITS. SEE EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR TYPE. SIZES SHALL BE AS RECOMMENDED BY THE MANUFACTURER, UNLESS OTHERWISE SPECIFIED.

14. AIR FILTERS SHALL BE STATE FIRE MARSHAL APPROVED AND LISTED. PREFORMED FILTERS HAVING COMBUSTIBLE FRAMING SHALL BE TESTED AS A COMPLETE ASSEMBLY. AIR FILTERS SHALL BE ACCESSIBLE FOR CLEANING OR REPLACEMENT.

15. ALL EQUIPMENT WITH MOVING PARTS SHALL BE PROVIDED WITH FLEXIBLE DUCT AND PIPE CONNECTIONS.

16. ALL EQUIPMENT SHALL BE LABELED AS TO THE SPACE IT SERVES.

17. ALL HVAC EQUIPMENT SHALL BE CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION TO COMPLY WITH LATEST EFFICIENCY STANDARDS.

18. PROVIDE MANUAL VOLUME DAMPERS AND BACKDRAFT DAMPERS FOR FRESH AIR INTAKES ON ALL AIR HANDLING EQUIPMENT AND SUPPLY AIR FANS SERVING CONDITIONED SPACES.

19. ALL AIR HANDLING EQUIPMENT SERVING CONDITIONED SPACES SHALL PROVIDE CONTINUOUS FRESH AIR TO SPACES IN OCCUPIED MODE.

20. CONTRACTOR SHALL VERIFY ALL CLEARANCES AND INSTALL HVAC UNITS PER MANUFACTURER GUIDELINES.

21. CONTRACTOR TO SUBMIT ALL EQUIPMENT AND OTHER ACCESSORIES TO THE ENGINEER FOR APPROVAL PRIOR TO ANY ORDERING OF SUCH ITEMS.

22. CONTRACTOR SHALL BE RESPONSIBLE FOR COMMISSIONING OF EQUIPMENT.

23. PAINT EXPOSED SURFACES, WHETHER OR NOT COLORS ARE DESIGNATED IN SCHEDULES, EXCEPT WHERE A SURFACE OR MATERIAL IS SPECIFICALLY INDICATED NOT TO BE PAINTED OR IS TO REMAIN NATURAL, WHERE AN ITEM OR SURFACE IS NOT SPECIFICALLY MENTIONED, PAINT THE SAME AS SIMILAR ADJACENT MATERIALS OR SURFACES. IF COLOR OR FINISH IS NOT DESIGNATED, THE OWNER'S REPRESENTATIVE WILL SELECT FROM STANDARD COLORS OR FINISHES AVAILABLE.

1) PAINTING INCLUDES FIELD PAINTING EXPOSED BARE AND COVERED PIPES AND DUCTS (INCLUDING COLOR CODING), HANGERS, EXPOSED STEEL AND IRON WORK, AND PRIMED METAL SURFACES OF MECHANICAL AND ELECTRICAL EQUIPMENT.

24. THE HVAC UNITS ARE OWNER-FURNISHED AND CONTRACTOR-INSTALLED (OFCI) AND ARE CURRENTLY STORED AT TWO LOCATIONS:

2850 EAST DEL AMO BOULEVARD, CARSON, CALIFORNIA 90221

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL HANDLING, LOADING,TRANSPORTATION, DELIVERY, UNLOADING, STAGING, AND INSTALLATION OF THE EQUIPMENT AT THE PROJECT SITE.

25. ALL MECHANICAL PIPING SYSTEMS, DUCTS, CONTROLS, VALVES, APPARATUS, ETC., EXCEPT THOSE THAT ARE INSTALLED IN INACCESSIBLE LOCATIONS IN PARTITIONS, WALLS, AND FLOORS, AND THOSE BURIED UNDERGROUND, SHALL BE PERMANENTLY MARKED AND IDENTIFIED AS INDICATED IN THE RELATED SPECIFICATIONS.

26. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE CITY INSPECTOR.

----- CONTROLS -----

1. CONTROL SCHEMATICS ARE FOR SEQUENCE ONLY. REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ALL ELECTRICAL DEVICES REQUIRED.

2. ALL LINE VOLTAGE WIRING SHALL BE INSTALLED IN CONDUIT. ALL LOW VOLTAGE CONDUIT AND WIRING, INCLUDING FINAL CONNECTIONS, SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AS INDICATED ON THE ELECTRICAL DRAWINGS OR SPECIFIED IN THE ELECTRICAL SECTION OF THE SPECIFICATIONS. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS OF ALL GOVERNING BODIES HAVING JURISDICTION THEREOF.

3. ALL LOW VOLTAGE CONDUIT AND WIRING AS APPLICABLE, INCLUDING FINAL CONNECTIONS, SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR AS INDICATED ON THE MECHANICAL DRAWINGS.

A1) ALL LOW VOLTAGE WIRING SHALL BE INSTALLED IN CONDUIT.

A2) ALL LOW VOLTAGE WIRING SHALL BE PLENUM - RATED.

B) WHERE THE CONTROLS CONTRACTOR IS RETAINED BY THE OWNER, THEY SHALL BE RESPONSIBLE FOR THE FOLLOWING:

1) FURNISH AND INSTALL ALL DEVICES, WIRING, AND TERMINATIONS REQUIRED FOR A COMPLETE AND FUNCTIONAL INSTALLATION.

2) COORDINATE ALL WORK AND REQUIREMENTS WITH OTHER TRADES INCLUDING GENERAL, MECHANICAL, AND ELECTRICAL CONTRACTORS PRIOR TO BID.

3) CONTRACTOR SHALL FOLLOW ALL SUBMITTAL REQUIREMENTS PER DRAWINGS.

4. ELECTRICAL CONTRACTOR SHALL PROVIDE REQUIRED RELAY ACCESSORIES FOR CONNECTION OF 120 VOLT 1 PHASE VENTILATION EQUIPMENT TO 277 VOLT 1 PHASE LIGHTING AS APPLICABLE.

5. ALL THERMOSTATS SHALL HAVE LOCKABLE COVERS (WHERE INDICATED ON PLANS) AND SHALL BE OF THE ELECTRONIC, PROGRAMMABLE, AUTOMATIC CHANGEOVER TYPE TO SEQUENCE HEATING OR COOLING. SET POINT RANGE SHALL BE 10 DEGREES F. BETWEEN FULL HEATING AND COOLING. THEY SHALL HAVE CAPABILITY OF TERMINATING ALL HEATING AT A TEMPERATURE NO MORE THAN 70 DEGREES F., AND COOLING AT A TEMPERATURE NOT LESS THAN 78 DEGREES F. ADJUSTABLE TEMPERATURE DIFFERENTIAL SHALL BE 1- 1/2 DEGREES F. CONTROL LIMITS SHALL BE FROM 55 DEGREES F. TO 85 DEGREES F. MOUNT AT 48 INCHES ABOVE FLOOR OR AS REQUIRED BY LOCAL AUTHORITIES OR HANDICAP CODES.

NOTES: 1) THERMOSTATS THAT ARE PART OF AN ENERGY MANAGEMENT SYSTEM SHALL FOLLOW CONTROL SPECIFICATIONS AND DRAWING REQUIREMENTS.

2) SHOULD THE LOCATION OF THE THERMOSTAT NOT MEET THE ADA HEIGHT REQUIREMENTS DUE TO OBSTRUCTIONS, THEN AN ALTERNATE LOCATION SHALL BE PROPOSED OR REQUESTED BY THE CONTRACTOR THAT SHALL BE APPROVED BY THE ENGINEER AND ARCHITECT.

6. LINE VOLTAGE THERMOSTATS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

7. CONTROLS CONTRACTOR AND AIR BALANCE CONTRACTOR SHALL COORDINATE WORK AND PERFORM NECESSARY TASKS AS REQUIRED TO OBTAIN AIR AND WATER FLOW QUANTITIES FOR SYSTEMS SHOWN HEREIN.

8. CONTROLS SHALL BE PROVIDED TO PROVIDE THE MINIMUM RATE OF OUTDOOR AIR REQUIRED BY THE STATE ENERGY REGULATIONS.

----- AIR DISTRIBUTION -----

1. ALL DUCTWORK SHALL BE SHEET METAL CONSTRUCTED OR SPIRAL, ERECTED, AND TESTED IN ACCORDANCE WITH THE MOST RESTRICTIVE OF LOCAL REGULATIONS, PROCEDURES DETAILED IN THE ASHRAE HANDBOOK OF FUNDAMENTALS, CHAPTER 6 OF THE MECHANICAL CODE, OR THE APPLICABLE STANDARDS ADOPTED BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION.

2. CONTRACTOR SHALL PROVIDE EXTERIOR MANUAL VOLUME DAMPER HANDLES W/ LOCK-DOWN AFTER COMPLETING AIR BALANCE & OBTAIN FINAL APPROVAL FROM ENGINEER.

3. ALL RECTANGULAR DUCT TURNS IN OUTSIDE AIR DUCTS SHALL HAVE SINGLE WALL TURNING VANES WITH TRAILING EDGE, UNLESS OTHERWISE NOTED.

4. MANUAL VOLUME DAMPERS SHALL BE PROVIDED IN ALL DUCT BRANCHES TO INDIVIDUAL FRESH AIR INTAKE DUCTS. DAMPERS SHALL BE LOCATED AT THE BRANCH DUCT LOCATIONS. THE MECHANICAL CONTRACTOR SHALL COORDINATE LOCATIONS OF DAMPERS WITH THE AIR BALANCE CONTRACTOR PRIOR TO BID, SO THEY ARE ACCESSIBLE PRIOR TO INSTALLATION. IN LOCATIONS WHERE THESE DAMPERS ARE INACCESSIBLE, CABLE OPERATED ADJUSTMENT CONTROLS SHALL BE PROVIDED AT NO ADDITIONAL COST. OPPOSED BLADE DAMPERS SHALL NOT BE PERMITTED UNLESS NOTED OTHERWISE.

5. UNLESS OTHERWISE NOTED THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING EXTERIOR LOUVERS CALLED OUT HEREIN. COORDINATE SIZE(S) AND LOCATION(S) WITH OTHER TRADES AS NECESSARY PRIOR TO BID.

6. ALL FLEXIBLE DUCTWORK SHALL NOT EXCEED FIVE FEET IN LENGTH TO RESPECTIVE DIFFUSERS, GRILLES, AND REGISTERS, OR OTHER AIR DEVICES.

7. ALL DUCT TURNS IN SUPPLY, RETURN, AND EXHAUST DUCTS SHALL HAVE TURNING VANES UNLESS OTHERWISE NOTED.

8. DUCTWORK HANDLING CONDITIONED AIR SHALL BE INSULATED AS INDICATED ON DRAWINGS. SUPPLY AND RETURN DUCT INSULATION SHALL BE MIN. 2" THICK, 3/4 LB./CUBIC FT. DENSITY ANDHAVE A MIN. VALUE OF R-8 WHERE LOCATED IN ONE OR MORE OF THE FOLLOWING SPACES:

- OUTDOORS, OR
- IN A SPACE BETWEEN THE ROOF AND AN INSULATED CEILING, OR
- IN A SPACE DIRECTLY UNDER A ROOF WITH FIXED VENTS OR OPENINGS TO THE OUTSIDE OR UNCONDITIONED SPACES, OR
- IN AN UNCONDITIONED CRAWLSPACE; OR
- IN OTHER UNCONDITIONED SPACES

PER 2025 CEC, OTHERWISE PROVIDE R-4.2 WHEN LOCATED IN CONDITIONED ATTIC SPACES ABOVE CEILINGS . ALL DUCTWORK EXPOSED ON ROOF SHALL BE 2" THICK, 1.5LB./CUBIC FT LINER. DENSITY DUCT INSULATION UNLESS OTHERWISE INDICATED OR SPECIFIED. ALL DUCT SIZES ARE NET CLEAR INSIDE DIMENSIONS. SEALED PER CHAPTER 6 MECHANICAL CODE REQUIREMENTS. PROVIDE PIPING AND DUCT INSULATION IN ACCORDANCE WITH THE LATEST STANDARDS OF THE CALIFORNIA ENERGY COMMISSION.

LEGEND

SYMBOL	ABBR.	DESCRIPTION
	-	SUPPLY AIR RISER
	-	RETURN AIR RISER
	-	EXHAUST AIR RISER
	SAG	SUPPLY AIR GRILLE
	RAG	RETURN AIR GRILLE
	EAG	EXHAUST AIR GRILLE
	SWR	SIDEWALL REGISTER
	(L)	LINED DUCTWORK
	-	FLEXIBLE CONNECTION
	FC	FLEXIBLE CONNECTION
	-	NEW DUCT (SEE PLAN)
	-	EXISTING DUCT (SEE PLAN)
	-	DEMO DUCT (SEE PLAN)
	MVD	MANUAL VOLUME DAMPER
	BDD	BACKDRAFT DAMPER
SF	SFD	SMOKE / FIRE DAMPER
F	FD	FIRE DAMPER
	DL	DOOR LOUVER
U.C.	UC	UNDERCUT DOOR 3/4"
RS	RS	REFRIGERANT SUCTION LINE
RL	RL	REFRIGERANT LIQUID LINE
CD	CD	CONDENSATE DRAIN
	S.D.	SMOKE DETECTOR
	P.O.C.	POINT OF CONNECTION
T	T-STAT	THERMOSTAT
H	H	HUMIDISTAT
TS	TS	TEMPERATURE SENSOR
OS	OS	OVERRIDE SWITCH
PD	PD	PRESSURE DIFFERENTIAL SWITCH
S	S	SWITCH
	O.C.	ON CENTER
	HWR	HOT-WATER RETURN
	HWS	HOT-WATER SUPPLY
	I.D.	INSIDE DIAMETER
	O.D.	OUTSIDE DIAMETER
	W/	WITH
	S/M	SHEET METAL
	S/S	STAINLESS STEEL
	G.C.	GENERAL CONTRACTOR
	VTR	VENT THRU ROOF
	EMS	ENERGY MANAGEMENT SYSTEM
	OBD	OPPOSED BLADE DAMPER
	FSC	FAN SPEED CONTROL
E	E	ITEMS FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR AS SPECIFIED ON THE ELECTRICAL CONTRACT DOCUMENTS
M	M	ITEMS FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR AS SPECIFIED ON THE MECHANICAL CONTRACT DOCUMENTS
EM	EM	ITEMS FURNISHED BY ELECTRICAL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.
ME	ME	ITEMS FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.
	C.C.	CONTROLS CONTRACTOR
	CBD	COUNTER-BALANCE DAMPER
DS	D.S.	DOOR SWITCH

SHEET INDEX

S.NO.	SHEET No.	SHEET TITLE
1	M-0.1	MECHANICAL GENERAL NOTES & LEGEND
2	M-0.2	MECHANICAL SCHEDULES
3	M-0.3	MECHANICAL SCHEDULES
4	MD-1.1	MECHANICAL DEMO PLANS - BUILDING A1(LIBRARY)
5	MD-1.2	MECHANICAL DEMO PLANS - BUILDING G
6	MD-1.3	MECHANICAL DEMO PLANS - BUILDING E
7	MD-1.4	MECHANICAL DEMO PLANS - BUILDING F
8	MD-1.5	MECHANICAL DEMO PLANS - BUILDING P
9	MD-1.6	MECHANICAL DEMO FIRST FLOOR PLAN - BUILDING L
10	MD-1.6.1	MECHANICAL DEMO SECOND FLOOR PLAN - BUILDING L
11	MD-1.6.2	MECHANICAL DEMO ROOF PLAN - BUILDING L
12	M-1.1	MECHANICAL REMODEL PLANS - BUILDING A1(LIBRARY)
13	M-1.2	MECHANICAL REMODEL PLANS - BUILDING G
14	M-1.3	MECHANICAL REMODEL PLANS - BUILDING E
15	M-1.4	MECHANICAL REMODEL PLANS - BUILDING F
16	M-1.5	MECHANICAL REMODEL PLANS - BUILDING P
17	M-1.6	MECHANICAL REMODEL FIRST FLOOR PLAN - BUILDING L
18	M-1.6.1	MECHANICAL REMODEL SECOND FLOOR PLAN - BUILDING L
19	M-1.6.2	MECHANICAL REMODEL ROOF PLAN - BUILDING L
20	M-4.1	MECHANICAL DETAILS
21	M-6.1	MECHANICAL TITLE 24 BLDG A1
22	M-6.2	MECHANICAL TITLE 24 BLDG G
23	M-6.3	MECHANICAL TITLE 24 BLDG E
24	M-6.4	MECHANICAL TITLE 24 BLDG F
25	M-6.5	MECHANICAL TITLE 24 BLDG P
26	M-6.6	MECHANICAL TITLE 24 BLDG L

APPLICABLE CODES

2025 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1 TITLE 24 C.C.R.
2025 CALIFORNIA BUILDING CODE (CBC). PART 2, TITLE 24 C.C.R.
2025 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2014 NEC)
2025 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
2025 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
2025 CALIFORNIA ENERGY CODE , PART 6, TITLE 24 C.C.R.
2025 CALIFORNIA FIRE CODE , PART 9, TITLE 24 C.C.R.
2025 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
2025 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.

TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
AMERICAN WITH DISABILITY ACT.

PARTIAL LIST OF APPLICABLE STANDARDS.

NFPA 13	AUTOMATIC SPRINKLER SYSTEM. 2025 EDITION.
NFPA 24	PRIVATE FIRE MAINS (INCLUDED IN 2025 NFPA 13) 2025 EDITION.
NFPA 72	NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED) 2025 EDITION. (NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES")

REFERENCE CODE SECTION FOR NFPA STANDARDS - 2025 CBC (SFM) CHPT. 35

SHOP DRAWINGS NOTES

CONTRACTOR SHALL SUBMIT A COMPLETE SET OF SHOP DRAWINGS 14 DAYS AFTER OFFICIAL PROJECT START DATE. INCLUSIVE OF ALL TRADE (MECHANICAL, PLUMBING, ELECTRICAL, ETC.) TO SCALE (MIN. 1/4"=1'-0") PRIOR TO FABRICATION AND OR INSTALLATION OF ANY AND OR ALL HVAC COMPONENTS, SYSTEM AND EQUIPMENT. SHOP DRAWINGS SHALL BE SUBMITTED AS A SINGLE ALL INCLUSIVE PACKAGE DIGITALLY (AUTOCAD 2014). AT A MINIMUM 4 HARD COPY SETS ARE TO BE SUBMITTED TO THE ENGINEER FOR REVIEW. INCOMPLETE AND UNCOORDINATED SUBMITTALS SHALL BE REJECTED UPON RECEIPT.

SEISMIC NOTES

MEP Component Anchorage Note

All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA-approved construction documents. The following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2025 CBC Sections 1617A.1.18 through 1617A.1.26 and ASCE 7-22 Chapters 13, 26, and 30:

1. All permanent equipment and components.
2. Temporary, movable or mobile equipment that is permanently attached (e.g. hard wired) to the building utility services such as electricity, gas or water. "Permanently attached" shall include all electrical connections except plugs for 110/220 volt receptacles having a flexible cable.
3. Temporary, movable or mobile equipment which is heavier than 400 pounds or has a center of mass located 4 feet or more above the adjacent floor or roof level that directly support the component is required to be restrained in a manner approved 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 transverse 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 or structural engineer delegated responsibility and acceptance by DSA. The project inspector will verify that all components and equipment have been anchored in accordance with the above requirements.

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 7-22 Section 13.3 as defined in ASCE 7-22 Sections 13.6.5, 13.6.6, 13.6.7, 13.6.8; and 2025 CBC, Sections 1617A.1.24, 1617A.1.25 and 1617A.1.26.

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a preapproved installation guide (e.g., OSHPD OPM for 2013 CBC or later), copies of the bracing system installation guide or manual shall be available on the jobsite prior to the start of and during the hanging and bracing of the distribution systems. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.

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

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

PACKAGED ROOF TOP GAS HEATING ELECTRIC COOLING UNIT SCHEDULE - BUILDING L

SYM	MFR & MODEL #	AREA SERVICED	COOLING CAPACITY		HEATING CAPACITY		IEER-SEER/EFR	CFM	MAX OSA CFM	MIN DCV CFM	ESP	FAN BHP	ELECTRICAL FLA					UNIT WT	ECON/PE WT	TOTAL WT	CONTROLS	ANCHORAGE	REMARKS
			TOTAL	SENSIBLE	INPUT	OUTPUT							V	PH	HZ	MCA	MOCP						
AC 1A	48FCGA05A2M6-3A0A0	BLDG L	48.41	34.31	60.00	49.00	14.00/ -	1600	420	150	1.00	1.02	460	3	60	11	15	590	45 / -	635	4 M-4.1	1 S201	1, 2, 3, 4, 5, 6, 7, 8
AC 1B	48FCGA05A2M6-3A0A0	BLDG L	48.41	34.31	60.00	49.00	14.00/ -	1600	420	150	1.00	0.94	460	3	60	11	15	590	75 / -	665	4 M-4.1	12 S201	1, 2, 3, 4, 5, 6, 7, 8
AC 2A	48FCGA05A2M6-3A0A0	BLDG L	48.41	34.31	60.00	49.00	14.00/ -	1600	420	150	1.00	0.94	460	3	60	11	15	590	75 / -	665	4 M-4.1	12 S201	1, 2, 3, 4, 5, 6, 7, 8
AC 2B	48FCGA05A2M6-3A0A0	BLDG L	48.41	34.31	60.00	49.00	14.00/ -	1600	420	150	1.00	0.94	460	3	60	11	15	590	75 / -	665	4 M-4.1	12 S201	1, 2, 3, 4, 5, 6, 7, 8
AC 2C	48FCGA05A2M6-3A0A0	BLDG L	48.41	34.31	60.00	49.00	14.00/ -	1600	420	150	1.00	0.94	460	3	60	11	15	590	75 / -	665	4 M-4.1	12 S201	1, 2, 3, 4, 5, 6, 7, 8
AC 3A	48FCGA05A2M6-3A0A0	BLDG L	48.41	34.31	60.00	49.00	14.00/ -	1600	420	150	1.00	1.02	460	3	60	11	15	590	45 / -	635	4 M-4.1	1 S201	1, 2, 3, 4, 5, 6, 7, 8
AC 3B	48FCGA05A2M6-3A0A0	BLDG L	48.41	34.31	60.00	49.00	14.00/ -	1600	420	150	1.00	1.02	460	3	60	11	15	590	45 / -	635	4 M-4.1	1 S201	1, 2, 3, 4, 5, 6, 7, 8
AC 3C	48FCGA05A2M6-3A0A0	BLDG L	48.41	34.31	60.00	49.00	14.00/ -	1600	420	150	1.00	0.94	460	3	60	11	15	590	75 / -	665	4 M-4.1	1 S201	1, 2, 3, 4, 5, 6, 7, 8
AC 3D	48FCGA05A2M6-3A0A0	BLDG L	48.41	34.31	60.00	49.00	14.00/ -	1600	420	150	1.00	0.94	460	3	60	11	15	590	75 / -	665	4 M-4.1	12 S201	1, 2, 3, 4, 5, 6, 7, 8
AC 4A	48FCGA06A2M6-3A0A0	BLDG L	59.31	44.73	60.00	49.00	14.00/ -	2000	420	150	1.00	1.29	460	3	60	13	20	605	75 / -	680	4 M-4.1	12 S201	1, 2, 3, 4, 5, 6, 7, 8
AC 4B	48FCGA06A2M6-3A0A0	BLDG L	59.31	44.73	60.00	49.00	14.00/ -	2000	420	150	1.00	1.29	460	3	60	13	20	605	75 / -	680	4 M-4.1	1 S201	1, 2, 3, 4, 5, 6, 7, 8
AC 4C	48FCGA06A2M6-3A0A0	BLDG L	59.31	44.73	60.00	49.00	14.00/ -	2000	420	150	1.00	1.29	460	3	60	13	20	605	75 / -	680	4 M-4.1	12 S201	1, 2, 3, 4, 5, 6, 7, 8
AC 5A	48FCDM07A2M6-3A0A0	BLDG L	71.15	52.00	67.00	54.00	15.00/ -	2100	475	150	1.00	1.32	460	3	60	14	20	630	45 / -	675	4 M-4.1	1 S201	1, 2, 3, 4, 5, 6, 7, 8

REMARK:

1. FACTORY MOUNTED HAIL GUARD. PROVIDE MERV-13 FILTER FOR ROOF TOP HEAT PUMP UNIT.
2. INSTALL NEW ROOF TOP HEAT PUMP UNIT PER MANUFACTURER GUIDELINES.
3. PROVIDE PERMANENT LABEL FOR EACH HEAT PUMP UNIT BY CONTRACTOR. LABEL IDENTIFICATION SHALL BE PER DISTRICT DIRECTION
4. ELECTROMECHANICAL CONTROLS WITH NEW CARRIER SYSTEMVU CONTROLLER. NEW OSA & FAN STATUS SENSOR & CONNECTION TO NEW UNIT. NEW T24 COMPLIANT VENTSTAR THERMOSTAT AND C02 SENSOR. PROVIDE WITH OLED DISPLAY AND SOLID COVER.
5. INSTALL PRE-PURCHASED 100% DRY BULB ECONOMIZER. ULTRA LOW LEAK ECONOMIZER ORIENTATION TO MATCH EXISTING. ADJUSTABLE DRY BULB SENSOR BELIMO. PAINTED RAIN HOOD WITH ALUMINUM FILTER 100% BAROMETRIC RELIEF.
6. REUSE EXISTING SEISMIC CLIPS FOR CONNECTION TO EXISTING CURB. FOR MISSING OR DAMAGED SEISMIC CLIPS, PROVIDE NEW PER DETAIL 3/M-4.1.
7. INSTALL FLUE DISCHARGE DEFLECTOR KIT PER MANUFACTURER GUILDLINES AND TERMINATE 3'-0" ABOVE UNIT OSA-INTAKE PER 2025 CMC 802.6.1.
8. REUSE EXISTING SMOKE DETECTION MODULE TO SHUT DOWN UNIT.

NOTE:

1. SEE ABOVE - "PACKAGED ROOFTOP GAS HEATING ELECTRIC COOLING UNIT SCHEDULE - BUILDING L" FOR EQUIPMENT TAG NUMBER, ELECTRICAL INFORMATION AND ACCESSORIES.
2. INSTALL NEW ROOF TOP UNIT PER MANUFACTURER GUIDELINES.
3. AREAS WITH UNIT SUPPLYING MORE THAN 2,000 CFM SHALL BE EQUIPPED WITH SHUT DOWN PER SECTION 608 OF THE 2025 CMC.
4. EXISTING ROOF CURB TO REMAIN. FOR DAMAGED ROOF CURB REPLACEMENT, CONTRACTOR TO PROVIDE UNIT COST FOR CURB REPLACEMENT AND ASSOCIATED ROOFING. SEE DETAILS 1/S201 AND 12/S201 FOR NEW PLATFORM.
5. UNITS ARE PRE-PURCHASED BY DISTRICT. OBTAIN SUBMITTALS FROM DISTRICT/OWNER. REFER TO T-1 FOR MORE INFORMATION.

PACKAGED ROOF TOP HEAT PUMP UNIT SCHEDULE - BUILDING G

SYM	MFR & MODEL #	AREA SERVICED	COOLING CAPACITY		HEATING CAPACITY	COP	SEER2/EER2	CFM	MAX OSA CFM	MIN DCV CFM	ESP	FAN BHP	ELECTRICAL FLA					UNIT WT	CURB WT	ECON/PE WT	TOTAL WT	CONTROLS	ANCHORAGE	REMARKS
			TOTAL	SENSIBLE									V	PH	HZ	MCA	MOCP							
G 1	50VT-K48---6	BLDG G	46.97	36.33	45.86	3.70	13.40 / -	1590	400	150	0.50	0.57	460	3	60	10.6	15	430	90	85 / -	605	4 M-4.1	2 S201 3 S201	1,2,3,4,5,6,7,8
G 2	50VT-K48---6	BLDG G	46.97	36.33	45.86	3.70	13.40 / -	1590	400	150	0.50	0.57	460	3	60	10.6	15	430	90	85 / -	605	4 M-4.1	2 S201 3 S201	1,2,3,4,5,6,7,8
G 3	50VT-K48---6	BLDG G	46.97	36.33	45.86	3.70	13.40 / -	1590	400	150	0.50	0.57	460	3	60	10.6	15	430	90	85 / -	605	4 M-4.1	2 S201 3 S201	1,2,3,4,5,6,7,8
G 4	50VT-K48---6	BLDG G	46.97	36.33	45.86	3.70	13.40 / -	1590	400	150	0.50	0.57	460	3	60	10.6	15	430	90	85 / -	605	4 M-4.1	2 S201 3 S201	1,2,3,4,5,6,7,8

REMARK:

1. FACTORY MOUNTED HAIL GUARD. PROVIDE MERV-13 FILTER FOR ROOF TOP HEAT PUMP UNIT.
2. INSTALL NEW ROOF TOP HEAT PUMP UNIT PER MANUFACTURER GUIDELINES.
3. PROVIDE PERMANENT LABEL FOR EACH HEAT PUMP UNIT BY CONTRACTOR. LABEL IDENTIFICATION SHALL BE PER DISTRICT DIRECTION
4. ELECTROMECHANICAL CONTROLS WITH NEW CARRIER SYSTEMVU CONTROLLER. NEW OSA & FAN STATUS SENSOR & CONNECTION TO NEW UNIT. NEW T24 COMPLIANT VENTSTAR THERMOSTAT AND C02 SENSOR. PROVIDE WITH OLED DISPLAY AND SOLID COVER.
5. INSTALL PRE-PURCHASED 100% DRY BULB ECONOMIZER. ULTRA LOW LEAK ECONOMIZER ORIENTATION TO MATCH EXISTING. ADJUSTABLE DRY BULB SENSOR BELIMO. PAINTED RAIN HOOD WITH ALUMINUM FILTER 100% BAROMETRIC RELIEF.
6. PROVIDE 14" TALL STRUCTURAL CALCULATED PREFABRICATE ROOF CURB. MICROMETL CURBS OR APPROVED EQUAL. SEE DETAILS 6/M-4.1 FOR MORE INFORMATION.
7. REUSE EXISTING SEISMIC CLIPS FOR CONNECTION TO EXISTING CURB. FOR MISSING OR DAMAGED SEISMIC CLIPS, PROVIDE NEW PER DETAIL 3/M-4.1.
8. REUSE EXISTING SMOKE DETECTION MODULE TO SHUT DOWN UNIT.

NOTE:

1. SEE ABOVE - "PACKAGED ROOFTOP HEAT PUMP UNIT SCHEDULE - BUILDING G" FOR EQUIPMENT TAG NUMBER, ELECTRICAL INFORMATION AND ACCESSORIES.
2. INSTALL NEW ROOF TOP UNIT PER MANUFACTURER GUIDELINES.
3. EXISTING ROOF CURB AND PLATFORM TO BE REMOVED. SEE REMARKS FOR NEW CURB. SEE DETAILS 2/S201 AND 3/S201 FOR NEW PLATFORM.
4. UNITS ARE PRE-PURCHASED BY DISTRICT. OBTAIN SUBMITTALS FROM DISTRICT/OWNER. REFER TO T-1 FOR MORE INFORMATION.

PACKAGED ROOF TOP HEAT PUMP UNIT SCHEDULE - BUILDING A1 (LIBRARY)

SYM	MFR & MODEL #	AREA SERVICED	COOLING CAPACITY		HEATING CAPACITY	COP	SEER2/EER2	CFM	MAX OSA CFM	MIN DCV CFM	ESP	FAN BHP	ELECTRICAL FLA					UNIT WT	CURB WT	ECON/PE WT	TOTAL WT	CONTROLS	ANCHORAGE	REMARKS
			TOTAL	SENSIBLE									V	PH	HZ	MCA	MOCP							
L 1	50VT-K48---6	LIBRARY	46.97	36.33	45.86	3.70	13.40 / -	1590	400	150	0.50	0.57	460	3	60	10.6	15	430	90	85 / -	605	4 M-4.1	4 S201	1,2,3,4,5,6,7,8
L 2	50VT-K48---6	LIBRARY	46.97	36.33	45.86	3.70	13.40 / -	1590	400	150	0.50	0.57	460	3	60	10.6	15	430	90	85 / -	605	4 M-4.1	4 S201	1,2,3,4,5,6,7,8

REMARK:

1. FACTORY MOUNTED HAIL GUARD. PROVIDE MERV-13 FILTER FOR ROOF TOP HEAT PUMP UNIT.
2. INSTALL NEW ROOF TOP HEAT PUMP UNIT PER MANUFACTURER GUIDELINES.
3. PROVIDE PERMANENT LABEL FOR EACH HEAT PUMP UNIT BY CONTRACTOR. LABEL IDENTIFICATION SHALL BE PER DISTRICT DIRECTION.
4. ELECTROMECHANICAL CONTROLS WITH NEW CARRIER SYSTEMVU CONTROLLER. NEW OSA & FAN STATUS SENSOR & CONNECTION TO NEW UNIT. NEW T24 COMPLIANT VENTSTAR THERMOSTAT AND C02 SENSOR. PROVIDE WITH OLED DISPLAY AND SOLID COVER.
5. INSTALL PRE-PURCHASED 100% DRY BULB ECONOMIZER. ULTRA LOW LEAK ECONOMIZER ORIENTATION TO MATCH EXISTING. ADJUSTABLE DRY BULB SENSOR BELIMO. PAINTED RAIN HOOD WITH ALUMINUM FILTER 100% BAROMETRIC RELIEF.
6. PROVIDE 14" TALL STRUCTURAL CALCULATED PREFABRICATE ROOF CURB. MICROMETL CURBS OR APPROVED EQUAL. SEE DETAILS 6/M-4.1 FOR MORE INFORMATION.
7. REUSE EXISTING SEISMIC CLIPS FOR CONNECTION TO EXISTING CURB. FOR MISSING OR DAMAGED SEISMIC CLIPS, PROVIDE NEW PER DETAIL 3/M-4.1.
8. REUSE EXISTING SMOKE DETECTION MODULE TO SHUT DOWN UNIT.

NOTE:

1. SEE ABOVE - "PACKAGED ROOFTOP HEAT PUMP UNIT SCHEDULE - LIBRARY" FOR EQUIPMENT TAG NUMBER, ELECTRICAL INFORMATION AND ACCESSORIES.
2. INSTALL NEW ROOF TOP HEAT PUMP UNIT PER MANUFACTURER GUIDELINES.
3. UNITS ARE PRE-PURCHASED BY DISTRICT. OBTAIN SUBMITTALS FROM DISTRICT/OWNER. REFER TO T-1 FOR MORE INFORMATION.
4. EXISTING ROOF CURB AND PLATFORM TO BE REMOVED. SEE REMARKS FOR NEW CURB. SEE DETAIL 4/S201 FOR NEW PLATFORM.

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-126114 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 09/15/2026

optimum energy design
Consulting Engineers
5200 E. La Palma Ave
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STAMP

REGISTERED PROFESSIONAL ENGINEER
ROBERT BAKEMEYER
No. M29253
Exp. 6/30/27
MECHANICAL
STATE OF CALIFORNIA

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL
5260 CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1

JOB NO: 501-26-0032
DATE: 09/04/2026
DRAWN: VZ
CHECK: ZF
ARCHITECT: PETRA
ENGINEER: OED
DSA NUMBER: 03-126114

CONSULTANT

STAMP

SHEET DESCRIPTION:
MECHANICAL SCHEDULES

SHEET NO:
M-0.2

PACKAGED ROOF TOP HEAT PUMP UNIT SCHEDULE - BUILDING E

SYM	MFR & MODEL #	AREA SERVICED	COOLING CAPACITY		HEATING CAPACITY	COP	SEER2/ EER2	CFM	MAX OSA CFM	MIN DCV CFM	ESP	FAN BHP	ELECTRICAL FLA					UNIT WT	CURB WT	ECON/ PE WT	TOTAL WT	CONTROLS	ANCHORAGE	REMARKS
			TOTAL	SENSIBLE									V	PH	HZ	MCA	MOCP							
E 1	50VT-K48---6	BLDG E	46.97	36.33	45.86	3.70	13.40 / -	1590	400	150	0.50	0.57	460	3	60	10.6	15	430	90	85 / -	605	4 M-4.1	4 S201	1,2,3,4,5,6,7,8
E 2	50VT-K48---6	BLDG E	46.97	36.33	45.86	3.70	13.40 / -	1590	400	150	0.50	0.57	460	3	60	10.6	15	430	90	85 / -	605	4 M-4.1	4 S201	1,2,3,4,5,6,7,8
E 3	50VT-K48---6	BLDG 3	46.97	36.33	45.86	3.70	13.40 / -	1590	400	150	0.50	0.57	460	3	60	10.6	15	430	90	85 / -	605	4 M-4.1	4 S201	1,2,3,4,5,6,7,8

REMARK:

1. FACTORY MOUNTED HAIL GUARD. PROVIDE MERV-13 FILTER FOR ROOF TOP HEAT PUMP UNIT.
2. INSTALL NEW ROOF TOP HEAT PUMP UNIT PER MANUFACTURER GUIDELINES.
3. PROVIDE PERMANENT LABEL FOR EACH HEAT PUMP UNIT BY CONTRACTOR. LABEL IDENTIFICATION SHALL BE PER DISTRICT DIRECTION
4. ELECTROMECHANICAL CONTROLS WITH NEW CARRIER SYSTEMVU CONTROLLER. NEW OSA & FAN STATUS SENSOR & CONNECTION TO NEW UNIT. NEW T24 COMPLIANT VENTSTAR THERMOSTAT AND C02 SENSOR. PROVIDE WITH OLED DISPLAY AND SOLID COVER.
5. INSTALL PRE-PURCHASED 100% DRY BULB ECONOMIZER. ULTRA LOW LEAK ECONOMIZER ORIENTATION TO MATCH EXISTING. ADJUSTABLE DRY BULB SENSOR BELIMO. PAINTED RAIN HOOD WITH ALUMINUM FILTER 100% BAROMETRIC RELIEF.
6. PROVIDE 14" TALL STRUCTURAL CALCULATED PREFABRICATE ROOF CURB. MICROMETL CURBS OR APPROVED EQUAL. SEE DETAILS 6/M-4.1 FOR MORE INFORMATION.
7. REUSE EXISTING SEISMIC CLIPS FOR CONNECTION TO EXISTING CURB. FOR MISSING OR DAMAGED SEISMIC CLIPS, PROVIDE NEW PER DETAIL 3/M-4.1.
8. REUSE EXISTING SMOKE DETECTION MODULE TO SHUT DOWN UNIT.

NOTE:

1. SEE ABOVE - "PACKAGED ROOFTOP HEAT PUMP UNIT SCHEDULE - BUILDING E" FOR EQUIPMENT TAG NUMBER, ELECTRICAL INFORMATION AND ACCESSORIES.
2. INSTALL NEW ROOF TOP HEAT PUMP UNIT PER MANUFACTURER GUIDELINES.
3. UNITS ARE PRE-PURCHASED BY DISTRICT. OBTAIN SUBMITTALS FROM DISTRICT/OWNER. REFER TO T-1 FOR MORE INFORMATION.
4. EXISTING ROOF CURB AND PLATFORM TO BE REMOVED. SEE REMARKS FOR NEW CURB. SEE DETAIL 4/S201 FOR NEW PLATFORM.

PACKAGED ROOF TOP HEAT PUMP UNIT SCHEDULE - BUILDING F

SYM	MFR & MODEL #	AREA SERVICED	COOLING CAPACITY		HEATING CAPACITY	COP	SEER2/ EER2	CFM	MAX OSA CFM	MIN DCV CFM	ESP	FAN BHP	ELECTRICAL FLA					UNIT WT	CURB WT	ECON/ PE WT	TOTAL WT	CONTROLS	ANCHORAGE	REMARKS
			TOTAL	SENSIBLE									V	PH	HZ	MCA	MOCP							
D 1	50VT-K48---6	BLDG F	46.97	36.33	45.86	3.70	13.40 / -	1590	400	150	0.50	0.57	460	3	60	10.6	15	430	90	85 / -	605	4 M-4.1	4 S201	1,2,3,4,5,6,7,8
D 2	50VT-K48---6	BLDG F	46.97	36.33	45.86	3.70	13.40 / -	1590	400	150	0.50	0.57	460	3	60	10.6	15	430	90	85 / -	605	4 M-4.1	4 S201	1,2,3,4,5,6,7,8

REMARK:

1. FACTORY MOUNTED HAIL GUARD. PROVIDE MERV-13 FILTER FOR ROOF TOP HEAT PUMP UNIT.
2. INSTALL NEW ROOF TOP HEAT PUMP UNIT PER MANUFACTURER GUIDELINES.
3. PROVIDE PERMANENT LABEL FOR EACH HEAT PUMP UNIT BY CONTRACTOR. LABEL IDENTIFICATION SHALL BE PER DISTRICT DIRECTION
4. ELECTROMECHANICAL CONTROLS WITH NEW CARRIER SYSTEMVU CONTROLLER. NEW OSA & FAN STATUS SENSOR & CONNECTION TO NEW UNIT. NEW T24 COMPLIANT VENTSTAR THERMOSTAT AND C02 SENSOR. PROVIDE WITH OLED DISPLAY AND SOLID COVER.
5. INSTALL PRE-PURCHASED 100% DRY BULB ECONOMIZER. ULTRA LOW LEAK ECONOMIZER ORIENTATION TO MATCH EXISTING. ADJUSTABLE DRY BULB SENSOR BELIMO. PAINTED RAIN HOOD WITH ALUMINUM FILTER 100% BAROMETRIC RELIEF.
6. PROVIDE 14" TALL STRUCTURAL CALCULATED PREFABRICATE ROOF CURB. MICROMETL CURBS OR APPROVED EQUAL. SEE DETAILS 6/M-4.1 FOR MORE INFORMATION.
7. REUSE EXISTING SEISMIC CLIPS FOR CONNECTION TO EXISTING CURB. FOR MISSING OR DAMAGED SEISMIC CLIPS, PROVIDE NEW PER DETAIL 3/M-4.1.
8. REUSE EXISTING SMOKE DETECTION MODULE TO SHUT DOWN UNIT.

NOTE:

1. SEE ABOVE - "PACKAGED ROOFTOP HEAT PUMP UNIT SCHEDULE - BUILDING F" FOR EQUIPMENT TAG NUMBER, ELECTRICAL INFORMATION AND ACCESSORIES.
2. INSTALL NEW ROOF TOP HEAT PUMP UNIT PER MANUFACTURER GUIDELINES.
3. UNITS ARE PRE-PURCHASED BY DISTRICT. OBTAIN SUBMITTALS FROM DISTRICT/OWNER. REFER TO T-1 FOR MORE INFORMATION.
4. EXISTING ROOF CURB AND PLATFORM TO BE REMOVED. SEE REMARKS FOR NEW CURB. SEE DETAIL 4/S201 FOR NEW PLATFORM.

PACKAGED ROOF TOP HEAT PUMP UNIT SCHEDULE - BUILDING P

SYM	MFR & MODEL #	AREA SERVICED	COOLING CAPACITY		HEATING CAPACITY	COP	SEER2/ EER2	CFM	MAX OSA CFM	MIN DCV CFM	ESP	FAN BHP	ELECTRICAL FLA					UNIT WT	CURB WT	ECON/ PE WT	TOTAL WT	CONTROLS	ANCHORAGE	REMARKS
			TOTAL	SENSIBLE									V	PH	HZ	MCA	MOCP							
P 1	50VT-K60---6	BLDG P	55.12	40.94	56.41	3.50	13.40 / -	1760	480	150	0.50	0.69	460	3	60	10.7	15	500	90	85 / -	675	4 M-4.1	2 S201 3 S201	1,2,3,4,5,6,7,8
P 2	50VT-K60---6	BLDG P	55.12	40.94	56.41	3.50	13.40 / -	1760	480	150	0.50	0.69	460	3	60	10.7	15	500	90	85 / -	675	4 M-4.1	2 S201 3 S201	1,2,3,4,5,6,7,8

REMARK:

1. FACTORY MOUNTED HAIL GUARD. PROVIDE MERV-13 FILTER FOR ROOF TOP HEAT PUMP UNIT.
2. INSTALL NEW ROOF TOP HEAT PUMP UNIT PER MANUFACTURER GUIDELINES.
3. PROVIDE PERMANENT LABEL FOR EACH HEAT PUMP UNIT BY CONTRACTOR. LABEL IDENTIFICATION SHALL BE PER DISTRICT DIRECTION
4. ELECTROMECHANICAL CONTROLS WITH NEW CARRIER SYSTEMVU CONTROLLER. NEW OSA & FAN STATUS SENSOR & CONNECTION TO NEW UNIT. NEW T24 COMPLIANT VENTSTAR THERMOSTAT AND C02 SENSOR. PROVIDE WITH OLED DISPLAY AND SOLID COVER.
5. INSTALL PRE-PURCHASED 100% DRY BULB ECONOMIZER. ULTRA LOW LEAK ECONOMIZER ORIENTATION TO MATCH EXISTING. ADJUSTABLE DRY BULB SENSOR BELIMO. PAINTED RAIN HOOD WITH ALUMINUM FILTER 100% BAROMETRIC RELIEF.
6. PROVIDE 14" TALL STRUCTURAL CALCULATED PREFABRICATE ROOF CURB. MICROMETL CURBS OR APPROVED EQUAL. SEE DETAILS 6/M-4.1 FOR MORE INFORMATION.
7. REUSE EXISTING SEISMIC CLIPS FOR CONNECTION TO EXISTING CURB. FOR MISSING OR DAMAGED SEISMIC CLIPS, PROVIDE NEW PER DETAIL 3/M-4.1.
8. REUSE EXISTING SMOKE DETECTION MODULE TO SHUT DOWN UNIT.

NOTE:

1. SEE ABOVE - "PACKAGED ROOFTOP HEAT PUMP UNIT SCHEDULE - BUILDING P" FOR EQUIPMENT TAG NUMBER, ELECTRICAL INFORMATION AND ACCESSORIES.
2. INSTALL NEW ROOF TOP HEAT PUMP UNIT PER MANUFACTURER
3. GUIDELINES UNITS ARE PRE-PURCHASED BY DISTRICT. OBTAIN SUBMITTALS FROM DISTRICT/OWNER. REFER TO T-1 FOR MORE INFORMATION.
4. EXISTING ROOF CURB AND PLATFORM TO BE REMOVED. SEE REMARKS FOR NEW CURB. SEE DETAILS 2/S201 AND 3/S201 FOR NEW PLATFORM.

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-126114 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 09/15/2026

optimum energy design
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5200 E. La Palma Ave
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STAMP

REGISTERED PROFESSIONAL ENGINEER
ZACHARY FORD BAKER
No. M29253
Exp. 6/30/27
MECHANICAL
STATE OF CALIFORNIA

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL
5260 CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1
2		
3		
4		

JOB NO: 501-26-0032
DATE: 09/04/2026
DRAWN: VZ
CHECK: ZF
ARCHITECT: PETRA
ENGINEER: OED
DSA NUMBER: 03-126114

CONSULTANT

STAMP

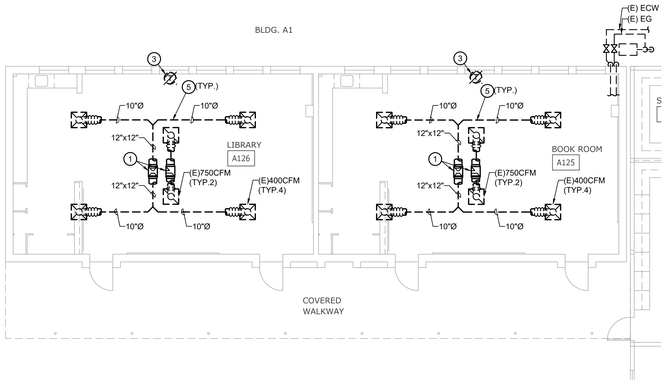
SHEET DESCRIPTION:
MECHANICAL SCHEDULES

SHEET NO:
M-0.3



REF. NORTH
N

MECHANICAL DEMOLITION ROOF PLAN - BUILDING A1 (LIBRARY) | 1/8" = 1'-0" | 2



REF. NORTH
N

MECHANICAL DEMOLITION FLOOR PLAN - BUILDING A1 (LIBRARY) | 1/8" = 1'-0" | 1

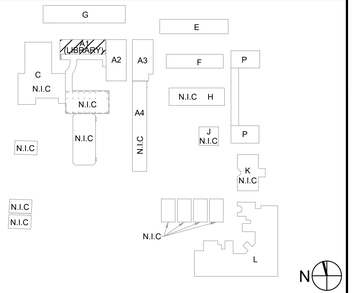
FLOOR PLAN DEMOLITION KEY NOTES:

1. EXISTING SUPPLY AND RETURN AIR DUCTS UP THROUGH ROOF TO REMAIN. KEEP EXISTING FLEX CONNECTORS. REPLACE ONLY IF DAMAGED
2. EXISTING PACKAGED ROOF TOP UNIT TO BE REMOVED. EXISTING ROOF CURB TO BE REMOVED. SEE ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
3. EXISTING THERMOSTAT AND LOW VOLTAGE WIRING TO BE REMOVED AND REPLACED WITH NEW. VERIFY ALL EXISTING LOCATIONS.
4. CONTRACTOR TO DO PRE-READ TAB AIR BALANCE FOR TOTAL SUPPLY, TOTAL RETURN, TOTAL OSA AT UNIT AND AIR DEVICES & PROVIDE REPORT TO DISTRICT & ENGINEER.
5. EXISTING DUCTWORK AND AIR DEVICES TO REMAIN. VERIFY ALL EXISTING LOCATIONS IN FIELD.

GENERAL DEMOLITION NOTES:

1. CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY THE SCOPE OF DEMOLITION WORK DEMOLITION IS INDICATED AS A CONVENIENCE FOR THE CONTRACTOR AND MAY NOT INDICATE THE FULL SCOPE OF DEMOLITION REQUIRED TO COMPLETE THE NEW WORK.
2. ELECTRICAL CONTRACTOR SHALL DISCONNECT POWER FROM MECHANICAL EQUIPMENT TO BE REMOVED, RELOCATED, RE-USED AND/OR REPLACED AS REQUIRED. CONTRACTOR SHALL RECONNECT POWER TO ALL MECHANICAL EQUIPMENT BEING RE-USED AND/OR RELOCATED REQUIRED.
3. GENERAL CONTRACTOR SHALL PATCH ALL OPENINGS IN WALLS, ROOF, ETC. THAT WILL NOT BE REUSED FOR FUTURE WORK. COORDINATE AS NECESSARY WITH OTHER TRADES. PATCH AND REPAIR EXISTING SURFACES AS REQUIRED TO COMPLETE THE NEW WORK.
4. PRIOR TO ANY WORK BEING DONE CONTRACTOR SHALL MAKE A CAREFUL EVALUATION OF THE EXISTING CONDITIONS AND VERIFY ALL METHODS OF REMOVAL AND INSTALLATION OF MECHANICAL EQUIPMENT.
5. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH THE WORK OF ALL OTHER TRADES.
6. CONTRACTOR SHALL CLEAN ALL AIR DEVICES TO REMAIN PER SPECIFICATIONS.
7. CONTRACTOR SHALL CLEAN ALL EXISTING DUCTWORK INCLUDING LINED DUCTWORK TO REMAIN PER SPECIFICATIONS. PRIOR TO BID AND BEFORE COMMENCEMENT OF ANY WORK ALL EXISTING DUCTWORK TO REMAIN SHALL BE CONFIRMED ON SITE.
8. ANY VENTS, CONDUIT, & GAS LINES LOCATED ON THE ROOF THAT ARE NOT SHOWN ON THIS SHEET AND/OR NOT EXPLICITLY INDICATED TO BE DEMOLISHED, SHALL REMAIN AND BE PROTECTED IN PLACE. CONTRACTOR TO FIELD VERIFY EXISTING ROOF CONDITIONS, AND TAKE MEASURES TO DEMOLISH ONLY THE ITEMS INDICATED.
9. ALL NEW WORK SHALL MATCH EXISTING IN KIND, QUALITY AND FINISH U.O.N.
10. CONTRACTOR SHALL INCLUDE IN THE SCOPE OF WORK ALL WORK REQUIRED TO PATCH, FINISH, MATCH, AND BLEND NEW SURFACES tO EXISTING AS IMPACTED BY THE AREAS OF NEW WORK.
11. CONTRACTOR SHALL PATCH AND REPAIR EXISTING WALLS, FLOORS,CEILINGS, AND/OR ROOF OPENING(S) AS NECESSARY FOR EXISTING EQUIPMENT, DUCTS, PIPING, & ETC. BEING REMOVED AND/OR MODIFIED. MATCH SURROUNDING MATERIAL AND MAINTAIN FIRE RATING.
12. NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA.

WALL LEGEND	
	NON-RATED WALL
	ONE-HOUR RATED WALL



KEY PLAN | NOT TO SCALE

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-126114 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 09/15/2026

optimum energy design
Consulting Engineers
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Anaheim, CA 92807
Telephone (714) 693-2277

STAMP

REGISTERED PROFESSIONAL ENGINEER
ZAREH FERDY BAKERYAN
No. M25253
Exp. 6/30/27
MECHANICAL
STATE OF CALIFORNIA

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL
5260 CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1
2		
3		
4		

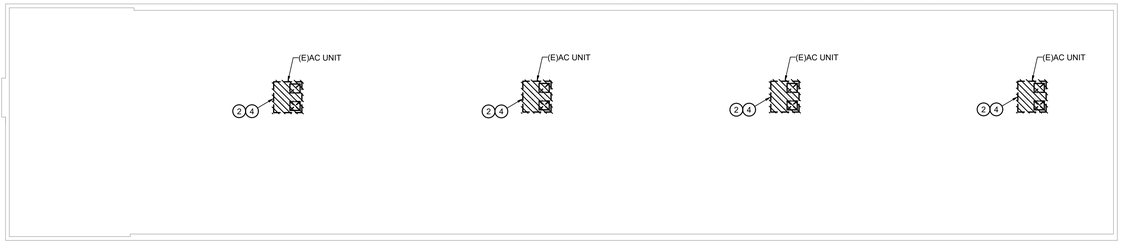
JOB NO:	501-26-0032
DATE:	09/04/2026
DRAWN:	VZ
CHECK:	ZF
ARCHITECT:	PETRA
ENGINEER:	OED
DSA NUMBER:	03-126114

CONSULTANT

STAMP

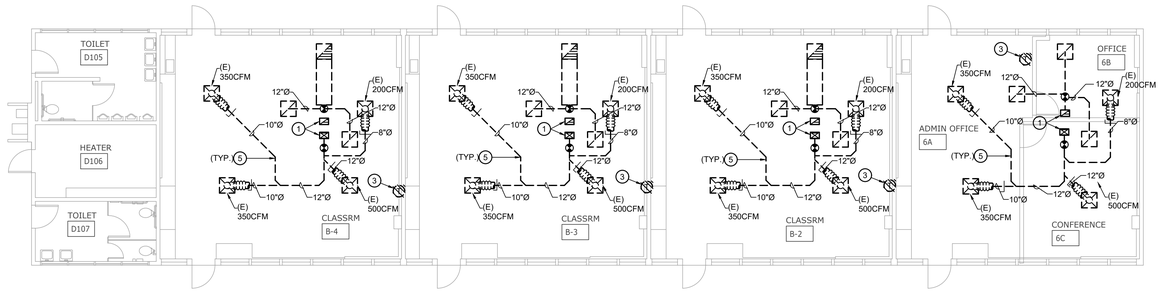
SHEET DESCRIPTION:
MECHANICAL DEMO PLANS - BUILDING A1 (LIBRARY)

SHEET NO:
MD-1.1



REF. NORTH
N

MECHANICAL DEMOLITION ROOF PLAN - BUILDING G | 1/8" = 1'-0" | 2



REF. NORTH
N

MECHANICAL DEMOLITION FLOOR PLAN - BUILDING G | 1/8" = 1'-0" | 1

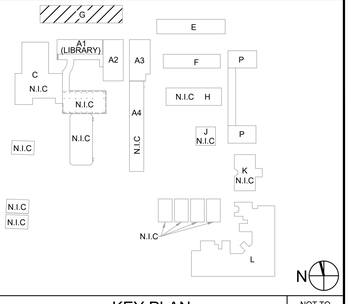
FLOOR PLAN DEMOLITION KEY NOTES:

1. EXISTING SUPPLY AND RETURN AIR DUCTS UP THROUGH ROOF TO REMAIN. KEEP EXISTING FLEX CONNECTORS. REPLACE ONLY IF DAMAGED
2. EXISTING PACKAGED ROOF TOP UNIT TO BE REMOVED. EXISTING ROOF CURB TO BE REMOVED. SEE ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
3. EXISTING THERMOSTAT AND LOW VOLTAGE WIRING TO BE REMOVED AND REPLACED WITH NEW. VERIFY ALL EXISTING LOCATIONS.
4. CONTRACTOR TO DO PRE-READ TAB AIR BALANCE FOR TOTAL SUPPLY, TOTAL RETURN, TOTAL OSA AT UNIT AND AIR DEVICES & PROVIDE REPORT TO DISTRICT & ENGINEER.
5. EXISTING DUCTWORK AND AIR DEVICES TO REMAIN. VERIFY ALL EXISTING LOCATIONS IN FIELD.

GENERAL DEMOLITION NOTES:

1. CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY THE SCOPE OF DEMOLITION WORK DEMOLITION IS INDICATED AS A CONVENIENCE FOR THE CONTRACTOR AND MAY NOT INDICATE THE FULL SCOPE OF DEMOLITION REQUIRED TO COMPLETE THE NEW WORK.
2. ELECTRICAL CONTRACTOR SHALL DISCONNECT POWER FROM MECHANICAL EQUIPMENT TO BE REMOVED, RELOCATED, RE-USED AND/OR REPLACED AS REQUIRED. CONTRACTOR SHALL RECONNECT POWER TO ALL MECHANICAL EQUIPMENT BEING RE-USED AND/OR RELOCATED REQUIRED.
3. GENERAL CONTRACTOR SHALL PATCH ALL OPENINGS IN WALLS, ROOF, ETC. THAT WILL NOT BE REUSED FOR FUTURE WORK. COORDINATE AS NECESSARY WITH OTHER TRADES. PATCH AND REPAIR EXISTING SURFACES AS REQUIRED TO COMPLETE THE NEW WORK.
4. PRIOR TO ANY WORK BEING DONE CONTRACTOR SHALL MAKE A CAREFUL EVALUATION OF THE EXISTING CONDITIONS AND VERIFY ALL METHODS OF REMOVAL AND INSTALLATION OF MECHANICAL EQUIPMENT.
5. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH THE WORK OF ALL OTHER TRADES.
6. CONTRACTOR SHALL CLEAN ALL AIR DEVICES TO REMAIN PER SPECIFICATIONS.
7. CONTRACTOR SHALL CLEAN ALL EXISTING DUCTWORK INCLUDING LINED DUCTWORK TO REMAIN PER SPECIFICATIONS. PRIOR TO BID AND BEFORE COMMENCEMENT OF ANY WORK ALL EXISTING DUCTWORK TO REMAIN SHALL BE CONFIRMED ON SITE.
8. ANY VENTS, CONDUIT, & GAS LINES LOCATED ON THE ROOF THAT ARE NOT SHOWN ON THIS SHEET AND/OR NOT EXPLICITLY INDICATED TO BE DEMOLISHED, SHALL REMAIN AND BE PROTECTED IN PLACE. CONTRACTOR TO FIELD VERIFY EXISTING ROOF CONDITIONS, AND TAKE MEASURES TO DEMOLISH ONLY THE ITEMS INDICATED.
9. ALL NEW WORK SHALL MATCH EXISTING IN KIND, QUALITY AND FINISH U.O.N.
10. CONTRACTOR SHALL INCLUDE IN THE SCOPE OF WORK ALL WORK REQUIRED TO PATCH, FINISH, MATCH, AND BLEND NEW SURFACES tO EXISTING AS IMPACTED BY THE AREAS OF NEW WORK.
11. CONTRACTOR SHALL PATCH AND REPAIR EXISTING WALLS, FLOORS,CEILINGS, AND/OR ROOF OPENING(S) AS NECESSARY FOR EXISTING EQUIPMENT, DUCTS, PIPING, & ETC. BEING REMOVED AND/OR MODIFIED. MATCH SURROUNDING MATERIAL AND MAINTAIN FIRE RATING.
12. NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA.

WALL LEGEND	
	NON-RATED WALL
	ONE-HOUR RATED WALL



N

KEY PLAN | NOT TO SCALE

AGENCY APPROVAL

IDENTIFICATION STAMP
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APP: 03-126114 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
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REGISTERED PROFESSIONAL ENGINEER
ROBERT BAKEMEYER
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MECHANICAL
STATE OF CALIFORNIA

PROJECT NAME:

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5260 CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1

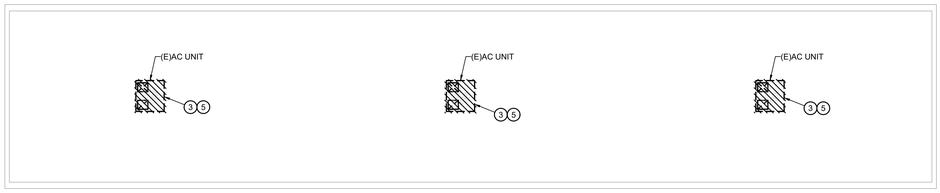
JOB NO:	501-26-0032
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DRAWN:	VZ
CHECK:	ZF
ARCHITECT:	PETRA
ENGINEER:	OED
DSA NUMBER:	03-126114

CONSULTANT

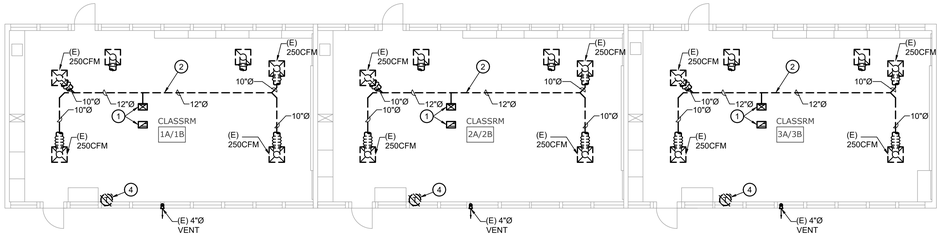
STAMP

SHEET DESCRIPTION:
MECHANICAL DEMO PLANS - BUILDING G

SHEET NO:
MD-1.2



MECHANICAL DEMOLITION ROOF PLAN - BUILDING E | 1/8" = 1'-0" | 2



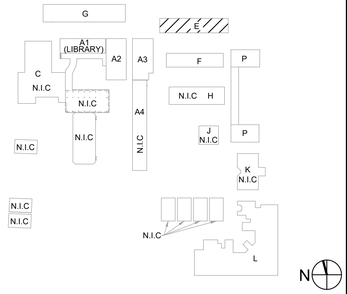
MECHANICAL DEMOLITION FLOOR PLAN - BUILDING E | 1/8" = 1'-0" | 1

FLOOR PLAN DEMOLITION KEY NOTES:

1. EXISTING SUPPLY AND RETURN AIR DUCTS UP THROUGH ROOF TO REMAIN. KEEP EXISTING FLEX CONNECTORS, REPLACE ONLY IF DAMAGED.
2. EXISTING DUCTWORK AND AIR DEVICES TO REMAIN. VERIFY ALL EXISTING LOCATIONS IN FIELD.
3. EXISTING PACKAGED ROOF TOP UNIT TO BE REMOVED. EXISTING ROOF CURB TO BE REMOVED. SEE ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
4. EXISTING THERMOSTAT AND LOW VOLTAGE WIRING TO BE REMOVED AND REPLACED WITH NEW. VERIFY ALL EXISTING LOCATIONS.
5. CONTRACTOR TO DO PRE-READ TAB AIR BALANCE FOR TOTAL SUPPLY, TOTAL RETURN, TOTAL OSA AT UNIT AND AIR DEVICES & PROVIDE REPORT TO DISTRICT & ENGINEER.

GENERAL DEMOLITION NOTES:

1. CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY THE SCOPE OF DEMOLITION WORK DEMOLITION IS INDICATED AS A CONVENIENCE FOR THE CONTRACTOR AND MAY NOT INDICATE THE FULL SCOPE OF DEMOLITION REQUIRED TO COMPLETE THE NEW WORK.
2. ELECTRICAL CONTRACTOR SHALL DISCONNECT POWER FROM MECHANICAL EQUIPMENT TO BE REMOVED, RELOCATED, RE-USED AND/OR REPLACED AS REQUIRED. CONTRACTOR SHALL RECONNECT POWER TO ALL MECHANICAL EQUIPMENT BEING RE-USED AND/OR RELOCATED REQUIRED.
3. GENERAL CONTRACTOR SHALL PATCH ALL OPENINGS IN WALLS, ROOF, ETC. THAT WILL NOT BE REUSED FOR FUTURE WORK. COORDINATE AS NECESSARY WITH OTHER TRADES. PATCH AND REPAIR EXISTING SURFACES AS REQUIRED TO COMPLETE THE NEW WORK.
4. PRIOR TO ANY WORK BEING DONE CONTRACTOR SHALL MAKE A CAREFUL EVALUATION OF THE EXISTING CONDITIONS AND VERIFY ALL METHODS OF REMOVAL AND INSTALLATION OF MECHANICAL EQUIPMENT.
5. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH THE WORK OF ALL OTHER TRADES.
6. CONTRACTOR SHALL CLEAN ALL AIR DEVICES TO REMAIN PER SPECIFICATIONS.
7. CONTRACTOR SHALL CLEAN ALL EXISTING DUCTWORK INCLUDING LINED DUCTWORK TO REMAIN PER SPECIFICATIONS. PRIOR TO BID AND BEFORE COMMENCEMENT OF ANY WORK ALL EXISTING DUCTWORK TO REMAIN SHALL BE CONFIRMED ON SITE.
8. ANY VENTS, CONDUIT, & GAS LINES LOCATED ON THE ROOF THAT ARE NOT SHOWN ON THIS SHEET AND/OR NOT EXPLICITLY INDICATED TO BE DEMOLISHED, SHALL REMAIN AND BE PROTECTED IN PLACE. CONTRACTOR TO FIELD VERIFY EXISTING ROOF CONDITIONS, AND TAKE MEASURES TO DEMOLISH ONLY THE ITEMS INDICATED.
9. ALL NEW WORK SHALL MATCH EXISTING IN KIND, QUALITY AND FINISH U.O.N.
10. CONTRACTOR SHALL INCLUDE IN THE SCOPE OF WORK ALL WORK REQUIRED TO PATCH, FINISH, MATCH, AND BLEND NEW SURFACES IO EXISTING AS IMPACTED BY THE AREAS OF NEW WORK.
11. CONTRACTOR SHALL PATCH AND REPAIR EXISTING WALLS, FLOORS,CEILINGS, AND/OR ROOF OPENING(S) AS NECESSARY FOR EXISTING EQUIPMENT, DUCTS, PIPING, & ETC. BEING REMOVED AND/OR MODIFIED. MATCH SURROUNDING MATERIAL AND MAINTAIN FIRE RATING.
12. NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA.



KEY PLAN | NOT TO SCALE

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-126114 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 09/15/2026

optimum energy design
Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
Telephone (714) 693-2277

STAMP

REGISTERED PROFESSIONAL ENGINEER
ROBERT BAKEMEYER
No. M29253
Exp. 6/30/27
MECHANICAL
STATE OF CALIFORNIA

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL
5260 CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1
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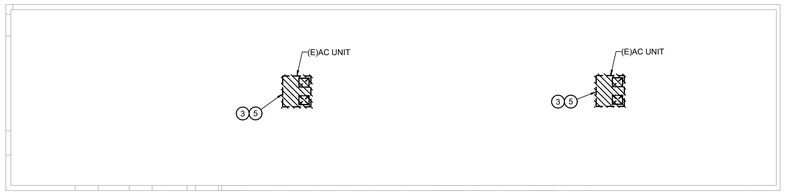
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DATE:	09/04/2026
DRAWN:	VZ
CHECK:	ZF
ARCHITECT:	PETRA
ENGINEER:	OED
DSA NUMBER:	03-126114

CONSULTANT

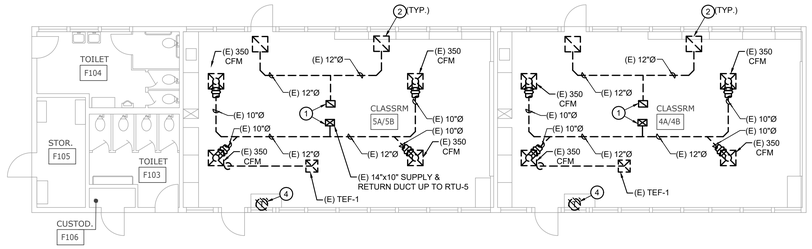
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SHEET DESCRIPTION:
MECHANICAL DEMO PLANS - BUILDING E

SHEET NO:
MD-1.3



MECHANICAL DEMOLITION ROOF PLAN - BUILDING F | 1/8" = 1'-0" | 2



MECHANICAL DEMOLITION FLOOR PLAN - BUILDING F | 1/8" = 1'-0" | 1

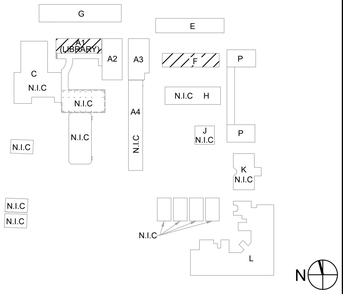
KEY DEMOLITION NOTES:

1. EXISTING SUPPLY AND RETURN AIR DUCTS UP THROUGH ROOF TO REMAIN. KEEP EXISTING FLEX CONNECTORS, REPLACE ONLY IF DAMAGED.
2. EXISTING DUCTWORK AND AIR DEVICES TO REMAIN. VERIFY ALL EXISTING LOCATIONS IN FIELD.
3. EXISTING PACKAGED ROOF TOP UNIT TO BE REMOVED. EXISTING ROOF CURB TO BE REMOVED. SEE ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
4. EXISTING THERMOSTAT AND LOW VOLTAGE WIRING TO BE REMOVED AND REPLACED WITH NEW. VERIFY ALL EXISTING LOCATIONS.
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GENERAL DEMOLITION NOTES:

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7. CONTRACTOR SHALL CLEAN ALL EXISTING DUCTWORK INCLUDING LINED DUCTWORK TO REMAIN PER SPECIFICATIONS. PRIOR TO BID AND BEFORE COMMENCEMENT OF ANY WORK ALL EXISTING DUCTWORK TO REMAIN SHALL BE CONFIRMED ON SITE.
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12. NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA.

WALL LEGEND	
	NON-RATED WALL
	ONE-HOUR RATED WALL



KEY PLAN | NOT TO SCALE

AGENCY APPROVAL

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STATE OF CALIFORNIA

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5260 CLARK STREET
LYNWOOD, CA 90262

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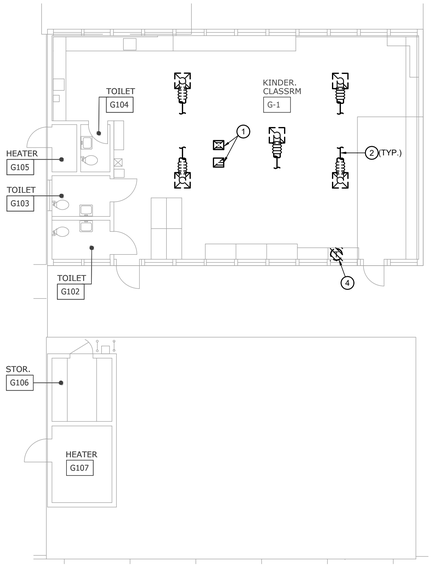
JOB NO:	501-26-0032
DATE:	09/04/2026
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ARCHITECT:	PETRA
ENGINEER:	OED
DSA NUMBER:	03-126114

CONSULTANT

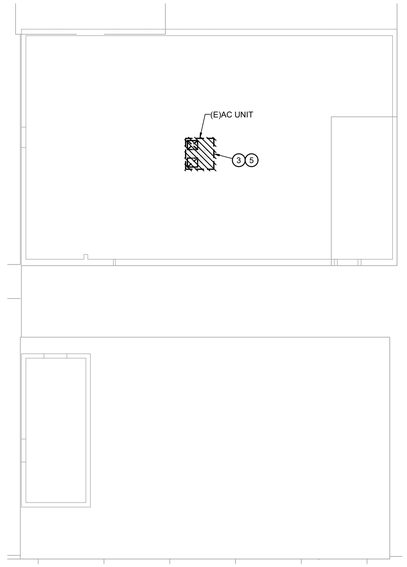
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SHEET DESCRIPTION:
MECHANICAL DEMO PLANS - BUILDING F

SHEET NO:
MD-1.4



MECHANICAL DEMOLITION FLOOR PLAN - BUILDING P | 1/8" = 1'-0" | 1



MECHANICAL DEMOLITION ROOF PLAN - BUILDING P | 1/8" = 1'-0" | 2

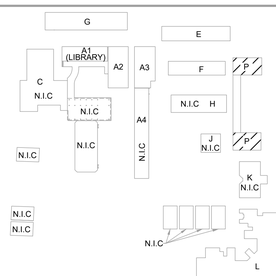
FLOOR PLAN DEMOLITION KEY NOTES:

1. EXISTING SUPPLY AND RETURN AIR DUCTS UP THROUGH ROOF TO REMAIN. KEEP EXISTING FLEX CONNECTORS, REPLACE ONLY IF DAMAGED.
2. EXISTING DUCTWORK AND AIR DEVICES TO REMAIN. VERIFY ALL EXISTING LOCATIONS IN FIELD.
3. EXISTING PACKAGED ROOF TOP UNIT TO BE REMOVED. EXISTING ROOF CURB TO BE REMOVED. SEE ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
4. EXISTING THERMOSTAT AND LOW VOLTAGE WIRING TO BE REMOVED AND REPLACED WITH NEW. VERIFY ALL EXISTING LOCATIONS.
5. CONTRACTOR TO DO PRE-READ TAB AIR BALANCE FOR TOTAL SUPPLY, TOTAL RETURN, TOTAL OSA AT UNIT AND AIR DEVICES & PROVIDE REPORT TO DISTRICT & ENGINEER.

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8. ANY VENTS, CONDUIT, & GAS LINES LOCATED ON THE ROOF THAT ARE NOT SHOWN ON THIS SHEET AND/OR NOT EXPLICITLY INDICATED TO BE DEMOLISHED, SHALL REMAIN AND BE PROTECTED IN PLACE. CONTRACTOR TO FIELD VERIFY EXISTING ROOF CONDITIONS, AND TAKE MEASURES TO DEMOLISH ONLY THE ITEMS INDICATED.
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12. NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA.

WALL LEGEND
NON-RATED WALL
ONE-HOUR RATED WALL



KEY PLAN | NOT TO SCALE

AGENCY APPROVAL

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APP: 03-126114 INC:
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DATE: 09/15/2026

optimum energy design
Consulting Engineers
5200 E. La Palma Ave
Anahiem, CA 92807
Telephone (714) 693-2277

STAMP

REGISTERED PROFESSIONAL ENGINEER
ZACHARY FIRST BAKERYER
No. M29253
Exp. 6/30/27
MECHANICAL
STATE OF CALIFORNIA

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL
5260 CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1
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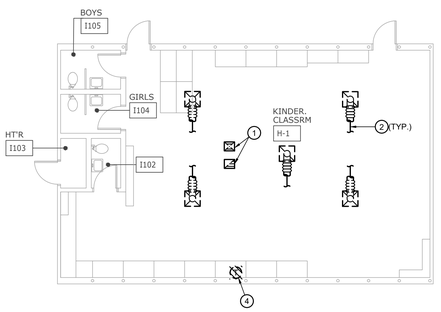
JOB NO:	501-26-0032
DATE:	09/04/2026
DRAWN:	VZ
CHECK:	ZF
ARCHITECT:	PETRA
ENGINEER:	OED
DSA NUMBER:	03-126114

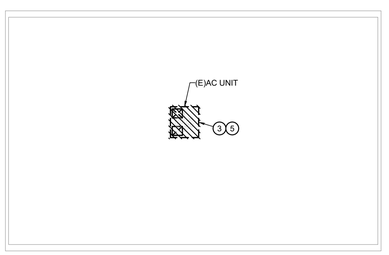
CONSULTANT

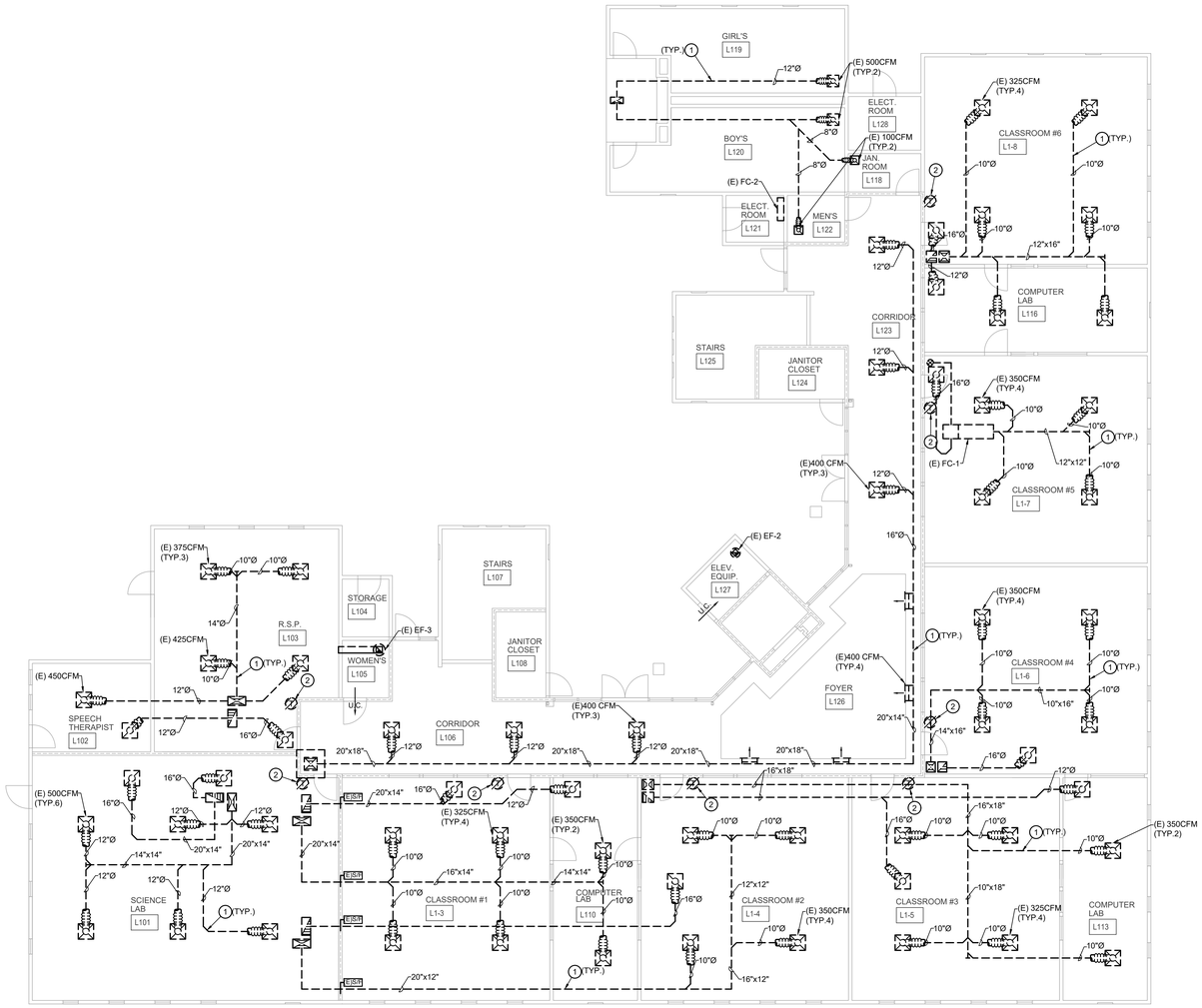
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SHEET DESCRIPTION:
MECHANICAL DEMO PLANS - BUILDING P

SHEET NO:
MD-1.5







FLOOR PLAN DEMOLITION KEY NOTES:

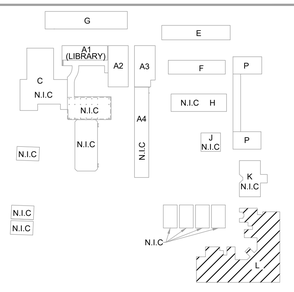
1. EXISTING DUCTWORK AND AIR DEVICES TO REMAIN. FIELD VERIFY EXISTING LOCATION.
2. EXISTING THERMOSTAT AND LOW VOLTAGE WIRING TO BE REMOVED AND REPLACED WITH NEW. VERIFY ALL EXISTING LOCATIONS.

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7. CONTRACTOR SHALL CLEAN ALL EXISTING DUCTWORK INCLUDING LINED DUCTWORK TO REMAIN PER SPECIFICATIONS. PRIOR TO BID AND BEFORE COMMENCEMENT OF ANY WORK ALL EXISTING DUCTWORK TO REMAIN SHALL BE CONFIRMED ON SITE.
8. ANY VENTS, CONDUIT, & GAS LINES LOCATED ON THE ROOF THAT ARE NOT SHOWN ON THIS SHEET AND/OR NOT EXPLICITLY INDICATED TO BE DEMOLISHED, SHALL REMAIN AND BE PROTECTED IN PLACE. CONTRACTOR TO FIELD VERIFY EXISTING ROOF CONDITIONS, AND TAKE MEASURES TO DEMOLISH ONLY THE ITEMS INDICATED.
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12. NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA.

WALL LEGEND	
	NON-RATED WALL
	ONE-HOUR RATED WALL

REF. NORTH



KEY PLAN

NOT TO SCALE

MECHANICAL DEMOLITION FIRST FLOOR PLAN - BUILDING L

1/8" = 1'-0"

1

AGENCY APPROVAL

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DIV. OF THE STATE ARCHITECT
APP: 03-126114 INC:
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DATE: 09/15/2026

optimum energy design
Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
Telephone (714) 693-2277

STAMP

REGISTERED PROFESSIONAL ENGINEER
ZACHARY FIRST BAKERVEZ
No. M29253
Exp. 6/30/27
MECHANICAL
STATE OF CALIFORNIA

PROJECT NAME:

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5260 CLARK STREET
LYNWOOD, CA 90262

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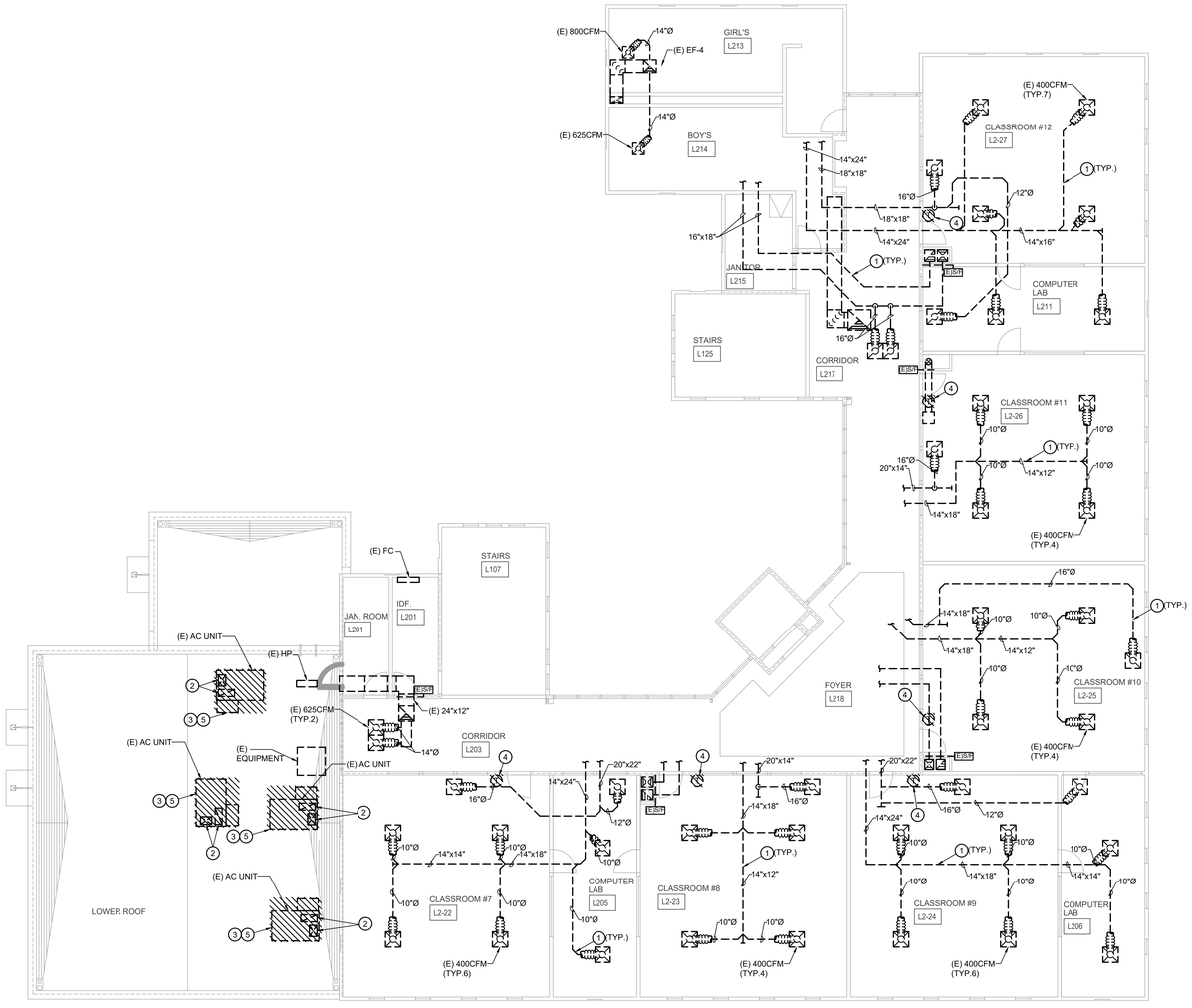
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ARCHITECT:	PETRA
ENGINEER:	OED
DSA NUMBER:	03-126114

CONSULTANT

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SHEET DESCRIPTION:
MECHANICAL DEMO FIRST FLOOR PLAN - BUILDING L

SHEET NO:
MD-1.6



FLOOR PLAN DEMOLITION KEY NOTES:

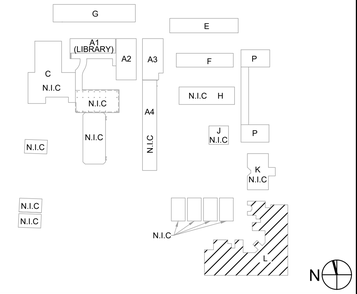
1. EXISTING DUCTWORK AND AIR DEVICES TO REMAIN. FIELD VERIFY EXISTING LOCATION.
2. EXISTING SUPPLY AND RETURN AIR DUCTS DOWN THROUGH ROOF TO REMAIN. CLEAN AND PROTECT IN PLACE AFTER REMOVING EXISTING PACKAGE UNIT.
3. EXISTING PACKAGED ROOF TOP UNIT TO BE REMOVED. EXISTING ROOF CURB, FLEX CONNECTORS AND SUPPLY AND RETURN AIR DUCT THRU ROOF TO BE REUSED. EXISTING LEVELING PLATFORM TO BE REMOVED. SEE ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION. DEMOLISH EXISTING THERMOSTAT AND LOW VOLTAGE WIRING. RETAIN SEISMIC HOLD DOWN PLATES FOR REUSE.
4. EXISTING THERMOSTAT AND LOW VOLTAGE WIRING TO BE REMOVED AND REPLACED WITH NEW. VERIFY ALL EXISTING LOCATIONS.
5. CONTRACTOR TO DO PRE-READ AND POST-READ TAB AIR BALANCE FOR TOTAL SUPPLY, TOTAL RETURN, TOTAL OSA & PROVIDE REPORT DISTRICT & ENGINEER. ENGINEER WILL THEN PROVIDE FINAL VALUES FOR NEW UNITS FOR TAB CONTRACTOR TO BALANCE TO.

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1. CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY THE SCOPE OF DEMOLITION WORK DEMOLITION IS INDICATED AS A CONVENIENCE FOR THE CONTRACTOR AND MAY NOT INDICATE THE FULL SCOPE OF DEMOLITION REQUIRED TO COMPLETE THE NEW WORK.
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WALL LEGEND	
	NON-RATED WALL
	ONE-HOUR RATED WALL

REF. NORTH



KEY PLAN

NOT TO SCALE

MECHANICAL DEMOLITION SECOND FLOOR PLAN - BUILDING L

1/8" = 1'-0"

1

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STAMP

REGISTERED PROFESSIONAL ENGINEER
ROBERT BAKEMEYER
No. M29253
Exp. 6/30/27
MECHANICAL
STATE OF CALIFORNIA

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL
5260 CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1
2		
3		
4		

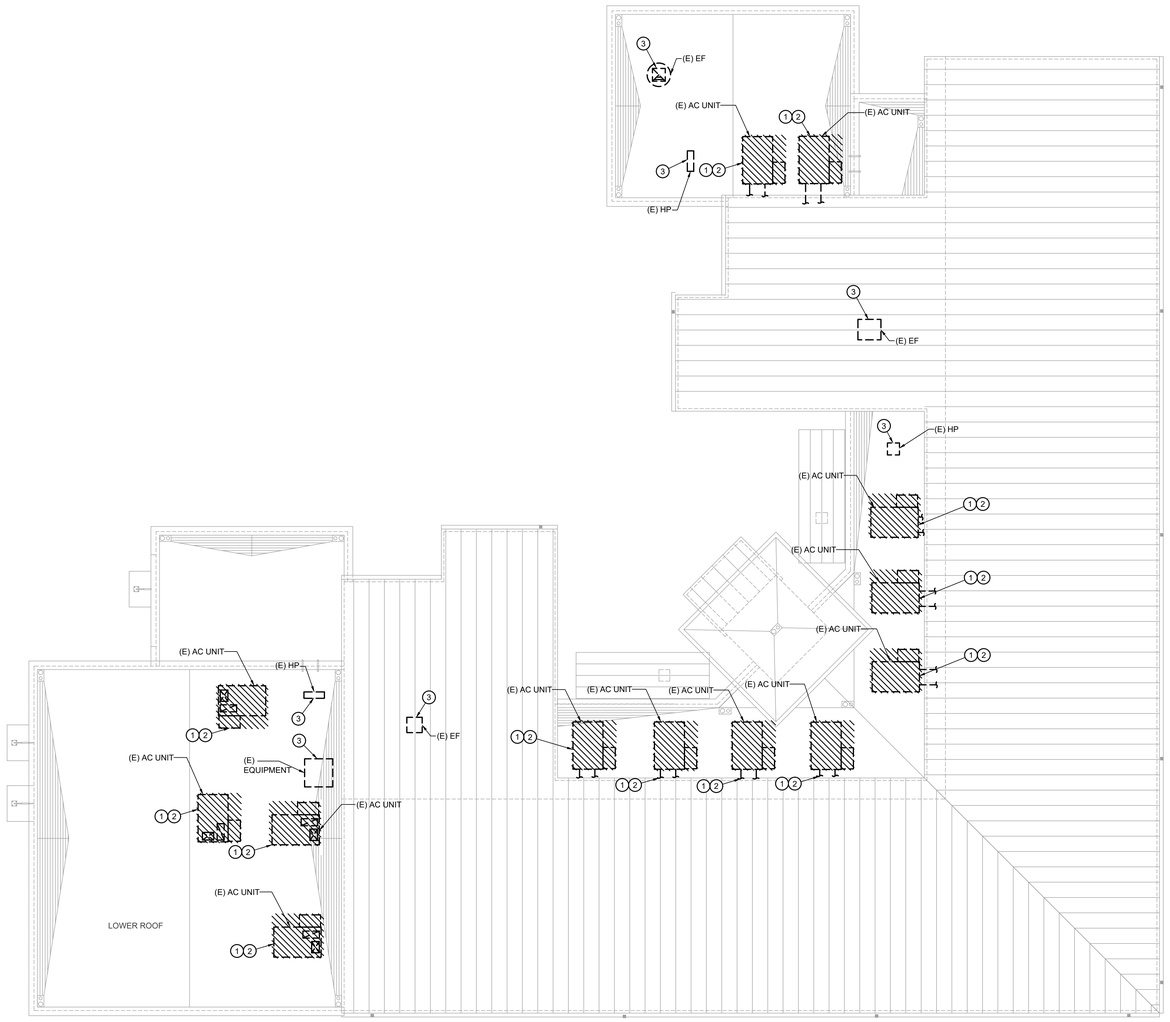
JOB NO:	501-26-0032
DATE:	09/04/2026
DRAWN:	VZ
CHECK:	ZF
ARCHITECT:	PETRA
ENGINEER:	OED
DSA NUMBER:	03-126114

CONSULTANT

STAMP

SHEET DESCRIPTION:
MECHANICAL DEMO SECOND FLOOR PLAN - BUILDING L

SHEET NO:
MD-1.6.1



FLOOR PLAN DEMOLITION KEY NOTES:

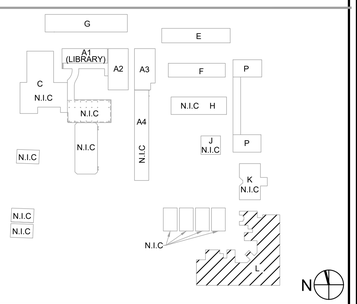
1. EXISTING ROOFTOP PACKAGED UNIT TO BE REMOVED. EXISTING ROOF CURB, FLEX CONNECTORS AND SUPPLY AND RETURN AIR DUCT THRU ROOF TO BE REMOVED. EXISTING LEVELING PLATFORM TO BE REMOVED. SEE ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION. DEMOLISH EXISTING THERMOSTAT AND LOW VOLTAGE WIRING. RETAIN SEISMIC HOLD DOWN PLATE FOR REUSE.
2. CONTRACTOR TO DO PRE-READ AND POST-READ TAB AIR BALANCE FOR TOTAL SUPPLY, TOTAL RETURN, TOTAL OSA & PROVIDE REPORT DISTRICT & ENGINEER. ENGINEER WILL THEN PROVIDE FINAL VALUES FOR NEW UNITS FOR TAB CONTRACTOR TO BALANCE TO.
3. EXISTING UNIT TO REMAIN.

GENERAL DEMOLITION NOTES:

1. CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY THE SCOPE OF DEMOLITION WORK DEMOLITION IS INDICATED AS A CONVENIENCE FOR THE CONTRACTOR AND MAY NOT INDICATE THE FULL SCOPE OF DEMOLITION REQUIRED TO COMPLETE THE NEW WORK.
2. ELECTRICAL CONTRACTOR SHALL DISCONNECT POWER FROM MECHANICAL EQUIPMENT TO BE REMOVED, RELOCATED, RE-USED AND/OR REPLACED AS REQUIRED. CONTRACTOR SHALL RECONNECT POWER TO ALL MECHANICAL EQUIPMENT BEING RE-USED AND/OR RELOCATED REQUIRED.
3. GENERAL CONTRACTOR SHALL PATCH ALL OPENINGS IN WALLS, ROOF, ETC. THAT WILL NOT BE REUSED FOR FUTURE WORK. COORDINATE AS NECESSARY WITH OTHER TRADES. PATCH AND REPAIR EXISTING SURFACES AS REQUIRED TO COMPLETE THE NEW WORK.
4. PRIOR TO ANY WORK BEING DONE CONTRACTOR SHALL MAKE A CAREFUL EVALUATION OF THE EXISTING CONDITIONS AND VERIFY ALL METHODS OF REMOVAL AND INSTALLATION OF MECHANICAL EQUIPMENT.
5. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH THE WORK OF ALL OTHER TRADES.
6. CONTRACTOR SHALL CLEAN ALL AIR DEVICES TO REMAIN PER SPECIFICATIONS SECTION 23 01 30.51.
7. CONTRACTOR SHALL CLEAN ALL EXISTING DUCTWORK INCLUDING LINED DUCTWORK TO REMAIN PER SPECIFICATIONS SECTION 23 01 30.51. PRIOR TO BID AND BEFORE COMMENCEMENT OF ANY WORK ALL EXISTING DUCTWORK TO REMAIN SHALL BE CONFIRMED ON SITE.
8. ANY VENTS, CONDUIT, & GAS LINES LOCATED ON THE ROOF THAT ARE NOT SHOWN ON THIS SHEET AND/OR NOT EXPLICITLY INDICATED TO BE DEMOLISHED, SHALL REMAIN AND BE PROTECTED IN PLACE. CONTRACTOR TO FIELD VERIFY EXISTING ROOF CONDITIONS, AND TAKE MEASURES TO DEMOLISH ONLY THE ITEMS INDICATED.
9. ALL NEW WORK SHALL MATCH EXISTING IN KIND, QUALITY AND FINISH U.O.N.
10. CONTRACTOR SHALL INCLUDE IN THE SCOPE OF WORK ALL WORK REQUIRED TO PATCH, FINISH, MATCH, AND BLEND NEW SURFACES tO EXISTING AS IMPACTED BY THE AREAS OF NEW WORK.
11. CONTRACTOR SHALL PATCH AND REPAIR EXISTING WALLS, FLOORS,CEILINGS, AND/OR ROOF OPENING(S) AS NECESSARY FOR EXISTING EQUIPMENT, DUCTS, PIPING, & ETC. BEING REMOVED AND/OR MODIFIED. MATCH SURROUNDING MATERIAL AND MAINTAIN FIRE RATING.
12. NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA.

WALL LEGEND
NON-RATED WALL
ONE-HOUR RATED WALL

REF. NORTH



KEY PLAN

MECHANICAL DEMOLITION ROOF PLAN - BUILDING L | 1/8" = 1'-0" | 1 | NOT TO SCALE

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-126114 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 09/15/2026

optimum energy design
Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
Telephone (714) 693-2277

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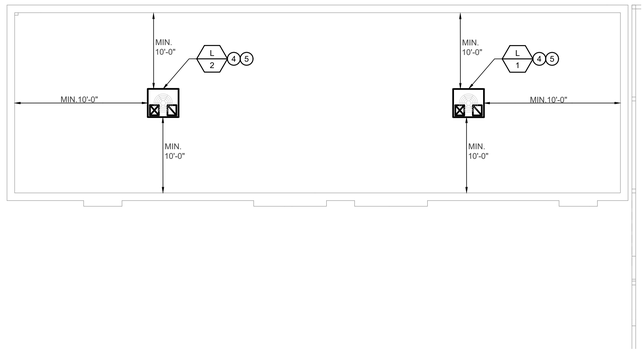
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SHEET DESCRIPTION:
MECHANICAL DEMO ROOF PLAN - BUILDING L

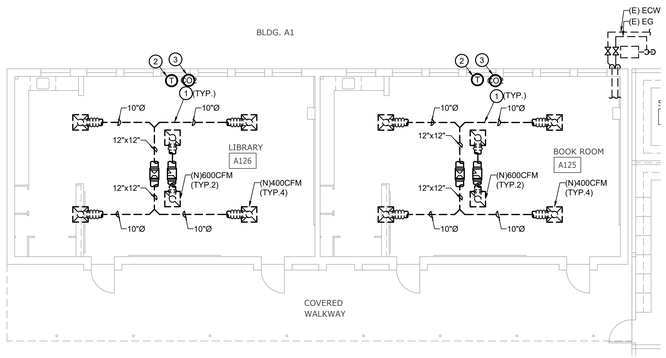
SHEET NO:
MD-1.6.2



REF. NORTH

N

MECHANICAL REMODEL ROOF PLAN - BUILDING A1 (LIBRARY) | 1/8" = 1'-0" | 2



REF NORTH

N

MECHANICAL REMODEL FLOOR PLAN - BUILDING A1 (LIBRARY) | 1/8" = 1'-0" | 1

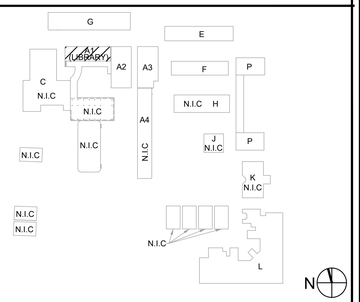
CONSTRUCTION KEY NOTES:

1. EXISTING DUCTWORK AND AIR DEVICES TO REMAIN.
2. INSTALL NEW THERMOSTAT AT 48" AFF AT SAME LOCATION AS EXISTING OR RELOCATE AS REQUIRED TO COMPLY WITH DETAIL 2/M-4.1. FIELD VERIFY ALL EXISTING LOCATIONS. INSTALL LOW VOLTAGE WIRING MATCHING EXISTING PATH FOR THERMOSTAT AND CO2 SENSOR POWER AND FOR CO2 SENSOR TO CONTROL NEW UNIT ECONOMIZER PER MANUFACTURER GUIDELINES. SEE DETAIL 1/M-4.1 FOR SENVA CO2.
3. INSTALL NEW SENVA TOTAL SENSE SERIES AQ2W-ACAAAAD NON-DISPLAY CO2 SENSOR AT 48" AFF. FIELD VERIFY ALL EXISTING LOCATIONS. INSTALL LOW VOLTAGE WIRING PER MANUFACTURER GUIDELINES.
4. SEE DETAILS 4/S201 FOR ANCHORAGE. CONTRACTOR TO PROVIDE LINE ITEM COST FOR CURB REPLACEMENT AND ASSOCIATED ROOFING. CONTRACTOR SHALL PROVIDE NEW ROOF CURB AND DUCT TRANSITION AS REQUIRED TO MAKE CONNECTION WITH EXISTING DUCTWORK. ATTACH UNIT TO CURB WITH SEISMIC CLIPS PER DETAIL 3/M-4.1.

CONSTRUCTION GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES AS NECESSARY PRIOR TO INSTALLATION.
2. BEFORE BIDDING ON THIS WORK, THE CONTRACTOR SHALL MAKE A CAREFUL EXAMINATION OF THE PREMISES, EXISTING EQUIPMENT AND SERVICES. HE SHALL DETERMINE IN ADVANCE, THE METHODS OF INSTALLING AND CONNECTING THE NEW EQUIPMENT, DUCTWORK, AND PIPING THE MEANS TO BE PROVIDED FOR GETTING THE EQUIPMENT AND MATERIALS INTO PLACE AND SHALL MAKE HIMSELF THOROUGHLY FAMILIAR WITH ALL OF THE REQUIREMENTS OF THE PROJECT. FAILURE TO VISIT THE SITE WILL IN NO WAY RELIEVE THE CONTRACTOR OF THE NECESSITY OF FURNISHING ANY MATERIAL OR PERFORMING ANY WORK THAT MAY BE REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. THIS ADDITIONAL WORK SHALL BE PERFORMED WITHOUT ADDITIONAL COST TO THE OWNER.
3. BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS AND DIMENSIONS OF ALL EXISTING EQUIPMENT AND ELECTRICAL SERVICES IN THE AREA OF CONSTRUCTION AND NOTIFY THE ENGINEER OR ANY DISCREPANCIES.
4. PATCH AND REPAIR EXISTING SURFACES AS REQUIRED TO FACILITATE DEMOLITION AND/OR PERFORMANCE OF THE NEW WORK. ALL NEW WORK SHALL MATCH IN KIND, QUALITY AND FINISH U.O.N.
5. CONTRACTOR SHALL MINIMIZE IMPACT TO EXISTING CEILING AND IMPLEMENT MEASURES TO MITIGATE DAMAGE TO THE EXISTING CEILING SYSTEM. THE CONTRACTOR SHALL REPAIR AND REPLACE ALL TILES DAMAGED DURING CONSTRUCTION.
6. CONTRACTOR TO PROVIDE POST AIR BALANCE FOR NEW SYSTEM AND AIR DISTRIBUTION. SEE SPECIFICATION SECTION 23 01 30.51 FOR ADDITIONAL INFORMATION.
7. REFERENCE TO DSA IR-25-2 SECTION 3.
   SUSPENDED LAY-IN PANEL CEILING: 2025 CBC
   - 3. CEILING SYSTEM ALTERATION
   - 3.1 EXISTING GRID CUT OR ALTERED
     WHEN ANY PORTION OF AN EXISTING GRID SYSTEM IS CUT OR ALTERED AND ANY ONE OF THE CONDITIONS DESCRIBED IN THE SUBSECTIONS BELOW APPLIES,THE ENTIRE CEILING IN THE AFFECTED SPACE SHALL BE EVALUATED AND UPGRADED AS REQUIRED TO MEET THE REQUIREMENTS OF THE CURRENT CBC AND THIS IR. WITH DSA CONCURRENCE, OTHER EXISTING LATERAL BRACING SYSTEMS MAY BE DEEMED EQUIVALENT TO A 4-WAY BRACE WIRE AND COMPRESSION POST LATERAL FORCE BRACING SYSTEM.
   - 3.1.1 THE EXISTING CEILING DOES NOT HAVE LATERAL BRACING ASSEMBLIES (I.E.,4-WAY BRACE WIRES AND COMPRESSIONPOST).
   - 3.1.2 THE EXISTING CEILING HAS LATERAL BRACING ASSEMBLIES(I.E.,4-WAY BRACE WIRES AND COMPRESSION POST) WITHSPACINGGREATERTHAN12-FEET ON CENTER IN EITHER PRINCIPAL AXIS.
   - 3.1.3 THE AREA CUT OR ALTERED EXCEEDS 10 PERCENT OF THE ENTIRE CEILING AREA.THE "ENTIRE" CEILING IN THE AFFECTED SPACE IS DEFINED AS THE AREA OF CEILING BOUNDED BY FOUR WALLS OR A COMBINATION OF WALLS AND EXPANSION JOINTS OR SEISMIC SEPARATION JOINTS.
   - 3.2 EXISTING GRID NOT CUT OR ALTERED
     EVALUATION AND ASSOCIATED UPGRADE TO THE CEILING GRID,SUSPENSION SYSTEM, AND LATERAL FORCE BRACING ASSEMBLIES IS NOT REQUIRED WHEN THE CEILING GRID IS NOT CUT OR ALTERED, AND THE SCOPE OF WORK IS LIMITED TO THE FOLLOWING:
   - 3.2.1 REPLACEMENT OF EXISTING CEILING PANELS WITH LIKE PANELS OF EQUAL OR LESSER WEIGHT.
   - 3.2.2 REPLACEMENT OF LUMINAIRES OR AIR TERMINALS WITH LIKE UNITS (I.E.,EQUAL SIZE AND EQUAL OR LESSER WEIGHT) PLACED IN THE SAME LOCATIONS.
   - 3.2.3 REPLACEMENT OF ONLY THE INTERNAL LIGHTING COMPONENTS EXISTING LUMINAIRES AND THE ATTACHMENT OF THE LUMINAIRE'S OUTER ENCLOSURE TO EXISTING GRID IS NOT (E.G.,LENS,BALLAST,OR LAMPS) WITHIN ALTERED.
   - 3.3 REUSE OF EXISTING CEILING WIRES
     EXISTING CEILING HANGER AND BRACING WIRES MAY BE REUSED PROVIDED THE FOLLOWING REQUIREMENTS ARE MET:
   - 3.3.1 WIRE GAUGE AND SPACING COMPLIES WITH THE CURRENT APPLICABLE CODES AND THIS IR.
   - 3.3.2 DSA-APPROVED CONSTRUCTION DRAWINGS INCLUDE A DETAIL SPECIFYING THE SPLICE BETWEEN A NEW AND EXISTING WIRE. ACCEPTABLE WIRE SPLICE DETAILS ARE PROVIDED IN APPENDIX A DETAIL6.10 BELOW.
   - 3.3.3 WIRES ARE TESTED IN ACCORDANCE WITH SECTION 6.2 BELOW.

WALL LEGEND	
	NON-RATED WALL
	ONE-HOUR RATED WALL



KEY PLAN | NOT TO SCALE

AGENCY APPROVAL

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APP: 03-126114 INC:
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optimum energy design
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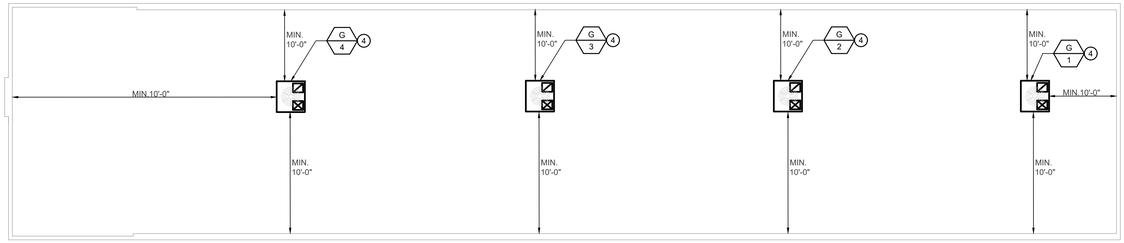
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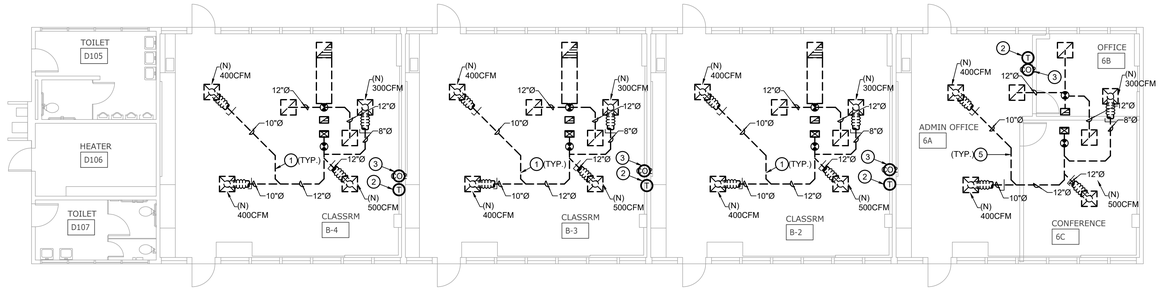
SHEET DESCRIPTION:
MECHANICAL REMODEL PLANS - BUILDING A1 (LIBRARY)

SHEET NO:
M-1.1



REF. NORTH

MECHANICAL REMODEL ROOF PLAN - BUILDING G | 1/8" = 1'-0" | 2



REF. NORTH

MECHANICAL REMODEL FLOOR PLAN - BUILDING G | 1/8" = 1'-0" | 1

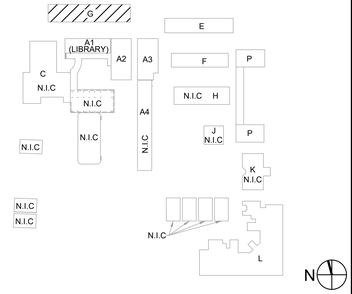
CONSTRUCTION KEY NOTES:

1. EXISTING DUCTWORK AND AIR DEVICES TO REMAIN.
2. INSTALL NEW THERMOSTAT AT 48" AFF AT SAME LOCATION AS EXISTING OR RELOCATE AS REQUIRED TO COMPLY WITH DETAIL 2/M-4.1. FIELD VERIFY ALL EXISTING LOCATIONS. INSTALL LOW VOLTAGE WIRING MATCHING EXISTING PATH FOR THERMOSTAT AND CO2 SENSOR POWER AND FOR CO2 SENSOR TO CONTROL NEW UNIT ECONOMIZER PER MANUFACTURER GUIDELINES. SEE DETAIL 1/M-4.1 FOR SENVA CO2 WIRING.
3. INSTALL NEW SENVA TOTAL SENSE SERIES AQ2W-ACAAAAD NON-DISPLAY CO2 SENSOR AT 48" AFF. FIELD VERIFY ALL EXISTING LOCATIONS. INSTALL LOW VOLTAGE WIRING PER MANUFACTURER GUIDELINES.
4. SEE DETAILS 2/S201 AND 3/S201 FOR ANCHORAGE. CONTRACTOR TO PROVIDE LINE ITEM COST FOR CURB REPLACEMENT AND ASSOCIATED ROOFING. CONTRACTOR SHALL PROVIDE NEW ROOF CURB AND DUCT TRANSITION AS REQUIRED TO MAKE CONNECTION WITH EXISTING DUCTWORK. ATTACH UNIT TO CURB WITH SEISMIC CLIPS PER DETAIL 3/M-4.1.

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5. CONTRACTOR SHALL MINIMIZE IMPACT TO EXISTING T-BAR CEILING TILES AND IMPLEMENT MEASURES TO MITIGATE DAMAGE TO THE EXISTING CEILING SYSTEM.
6. CONTRACTOR TO PROVIDE POST AIR BALANCE FOR NEW SYSTEM AND AIR DISTRIBUTION. SEE SPECIFICATION SECTION FOR ADDITIONAL INFORMATION.
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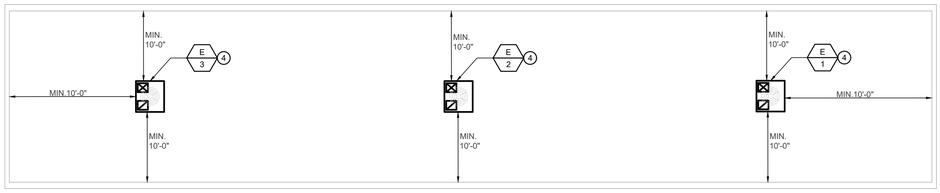
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MECHANICAL REMODEL PLANS - BUILDING G

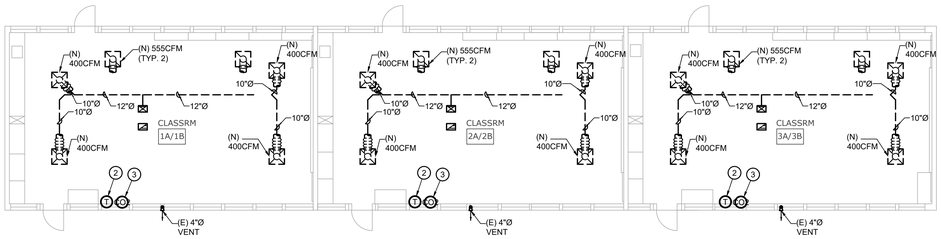
SHEET NO:
M-1.2



REF. NORTH

N

MECHANICAL REMODEL ROOF PLAN - BUILDING E | 1/8" = 1'-0" | 2



REF. NORTH

N

MECHANICAL REMODEL FLOOR PLAN - BUILDING E | 1/8" = 1'-0" | 1

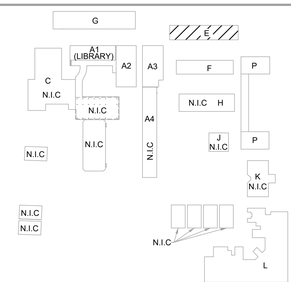
CONSTRUCTION KEY NOTES:

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2. INSTALL NEW THERMOSTAT AT 48" AFF AT SAME LOCATION AS EXISTING OR RELOCATE TO COMPLY WITH DETAIL 2/M-4.1. FIELD VERIFY ALL EXISTING LOCATIONS. INSTALL LOW VOLTAGE WIRING MATCHING EXISTING PATH FOR THERMOSTAT AND CO2 SENSOR POWER AND FRO CO2 SENSOR TO CONTROL NEW UNIT ECONOMIZER PER MANUFACTURER GUIDELINES. SEE DETAIL 1/M-4.1.
3. INSTALL NEW SENVA TOTAL SENSE SERIES AQ2W-ACAAAAD NON-DISPLAY CO2 SENSOR AT 48" AFF. FIELD VERIFY ALL EXISTING LOCATIONS. INSTALL LOW VOLTAGE WIRING PER MANUFACTURER GUIDELINES.
4. SEE DETAILS 4/S201 FOR ANCHORAGE. CONTRACTOR TO PROVIDE LINE ITEM COST FOR CURB REPLACEMENT AND ASSOCIATED ROOFING. CONTRACTOR SHALL PROVIDE NEW ROOF CURB AND DUCT TRANSITION AS REQUIRED TO MAKE CONNECTION WITH EXISTING DUCTWORK. ATTACH UNIT TO CURB WITH SEISMIC CLIPS PER DETAIL 3/M-4.1.

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3. BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS AND DIMENSIONS OF ALL EXISTING EQUIPMENT AND ELECTRICAL SERVICES IN THE AREA OF CONSTRUCTION AND NOTIFY THE ENGINEER OR ANY DISCREPANCIES.
4. PATCH AND REPAIR EXISTING SURFACES AS REQUIRED TO FACILITATE DEMOLITION AND/OR PERFORMANCE OF THE NEW WORK. ALL NEW WORK SHALL MATCH IN KIND, QUALITY AND FINISH U.O.N.
5. CONTRACTOR SHALL MINIMIZE IMPACT TO EXISTING T-BAR CEILING TILES AND IMPLEMENT MEASURES TO MITIGATE DAMAGE TO THE EXISTING CEILING SYSTEM.
6. CONTRACTOR TO PROVIDE POST AIR BALANCE FOR NEW SYSTEM AND AIR DISTRIBUTION. SEE SPECIFICATION SECTION FOR ADDITIONAL INFORMATION.
7. REFERENCE TO DSA IR-25-2 SECTION 3. SUSPENDED LAY-IN PANEL CEILING: 2025 CBC
   - 3. CEILING SYSTEM ALTERATION
   - 3.1 EXISTING GRID CUT OR ALTERED
     WHEN ANY PORTION OF AN EXISTING GRID SYSTEM IS CUT OR ALTERED AND ANY ONE OF THE CONDITIONS DESCRIBED IN THE SUBSECTIONS BELOW APPLIES,THE ENTIRE CEILING IN THE AFFECTED SPACE SHALL BE EVALUATED AND UPGRADED AS REQUIRED TO MEET THE REQUIREMENTS OF THE CURRENT CBC AND THIS IR. WITH DSA CONCURRENCE, OTHER EXISTING LATERAL BRACING SYSTEMS MAY BE DEEMED EQUIVALENT TO A 4-WAY BRACE WIRE AND COMPRESSION POST LATERAL FORCE BRACING SYSTEM.
   - 3.1.1 THE EXISTING CEILING DOES NOT HAVE LATERAL BRACING ASSEMBLIES (I.E.,4-WAY BRACE WIRES AND COMPRESSIONPOST).
   - 3.1.2 THE EXISTING CEILING HAS LATERAL BRACING ASSEMBLIES(I.E.,4-WAY BRACE WIRES AND COMPRESSION POST) WITHSPACINGGREATERTHAN12-FEET ON CENTER IN EITHER PRINCIPAL AXIS.
   - 3.1.3 THE AREA CUT OR ALTERED EXCEEDS 10 PERCENT OF THE ENTIRE CEILING AREA.THE "ENTIRE" CEILING IN THE AFFECTED SPACE IS DEFINED AS THE AREA OF CEILING BOUNDED BY FOUR WALLS OR A COMBINATION OF WALLS AND EXPANSION JOINTS OR SEISMIC SEPARATION JOINTS.
   - 3.2 EXISTING GRID NOT CUT OR ALTERED
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   - 3.2.2 REPLACEMENT OF LUMINAIRES OR AIR TERMINALS WITH LIKE UNITS (I.E.,EQUAL SIZE AND EQUAL OR LESSER WEIGHT) PLACED IN THE SAME LOCATIONS.
   - 3.2.3 REPLACEMENT OF ONLY THE INTERNAL LIGHTING COMPONENTS EXISTING LUMINAIRES AND THE ATTACHMENT OF THE LUMINAIRE'S OUTER ENCLOSURE TO EXISTING GRID IS NOT (E.G.,LENS,BALLAST,OR LAMPS) WITHIN ALTERED.
   - 3.3 REUSE OF EXISTING CEILING WIRES
     EXISTING CEILING HANGER AND BRACING WIRES MAY BE REUSED PROVIDED THE FOLLOWING REQUIREMENTS ARE MET:
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   - 3.3.2 DSA-APPROVED CONSTRUCTION DRAWINGS INCLUDE A DETAIL SPECIFYING THE SPLICE BETWEEN A NEW AND EXISTING WIRE. ACCEPTABLE WIRE SPLICE DETAILS ARE PROVIDED IN APPENDIX A DETAIL6.10 BELOW.
   - 3.3.3 WIRES ARE TESTED IN ACCORDANCE WITH SECTION 6.2 BELOW.

WALL LEGEND	
	NON-RATED WALL
	ONE-HOUR RATED WALL



KEY PLAN | NOT TO SCALE

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-126114 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 09/15/2026

optimum energy design
Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
Telephone (714) 693-2277

STAMP

REGISTERED PROFESSIONAL ENGINEER
ZEKI FERIT BAKERYE
No. M29253
Exp. 6/30/27
MECHANICAL
STATE OF CALIFORNIA

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL
5260 CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1

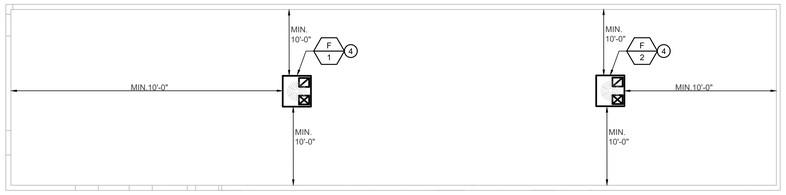
JOB NO:	501-26-0032
DATE:	09/04/2026
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ENGINEER:	OED
DSA NUMBER:	03-126114

CONSULTANT

STAMP

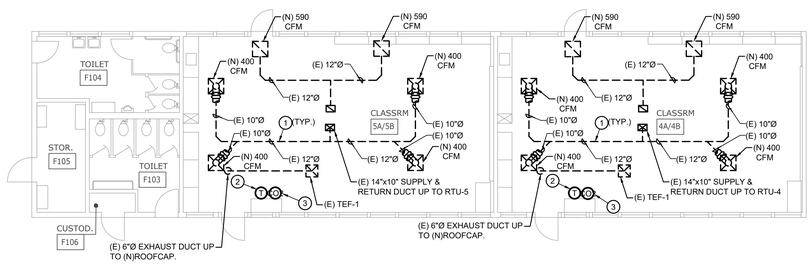
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MECHANICAL REMODEL PLANS - BUILDING E

SHEET NO:
M-1.3



REF. NORTH

MECHANICAL REMODEL ROOF PLAN - BUILDING F | 1/8" = 1'-0" | 2



REF. NORTH

MECHANICAL REMODEL FLOOR PLAN - BUILDING F | 1/8" = 1'-0" | 1

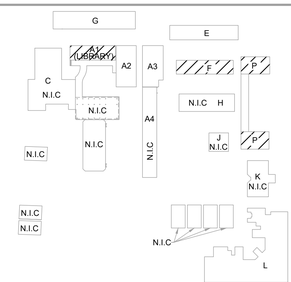
CONSTRUCTION KEY NOTES:

1. EXISTING DUCTWORK AND AIR DEVICES TO REMAIN.
2. INSTALL NEW THERMOSTAT AT 48" AFF AT SAME LOCATION AS EXISTING OR RELOCATE AS REQUIRED TO COMPLY WITH DETAIL 2/M-4.1. FIELD VERIFY ALL EXISTING LOCATIONS. INSTALL LOW VOLTAGE WIRING MATCHING EXISTING PATH FOR THERMOSTAT AND CO2 SENSOR POWER AND FOR CO2 SENSOR TO CONTROL NEW UNIT ECONOMIZER PER MANUFACTURER GUIDELINES. SEE DETAIL 1/M-4.1 FRO SENVA CO2 WIRING.
3. INSTALL NEW SENVA TOTAL SENSE SERIES AQ2W-ACAAAAD NON-DISPLAY CO2 SENSOR AT 48" AFF. FIELD VERIFY ALL EXISTING LOCATIONS. INSTALL LOW VOLTAGE WIRING PER MANUFACTURER GUIDELINES.
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   - 3.1 EXISTING GRID CUT OR ALTERED
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WALL LEGEND	
	NON-RATED WALL
	ONE-HOUR RATED WALL



REF. NORTH

KEY PLAN | NOT TO SCALE

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-126114 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 09/15/2026

optimum energy design
Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
Telephone (714) 693-2277

STAMP

REGISTERED PROFESSIONAL ENGINEER
ROBERT BAKER
No. M25253
Exp. 6/30/27
MECHANICAL
STATE OF CALIFORNIA

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL
5260 CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1
2		
3		
4		

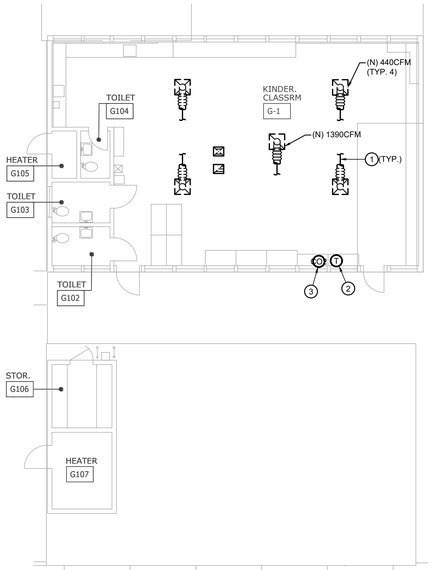
JOB NO:	501-26-0032
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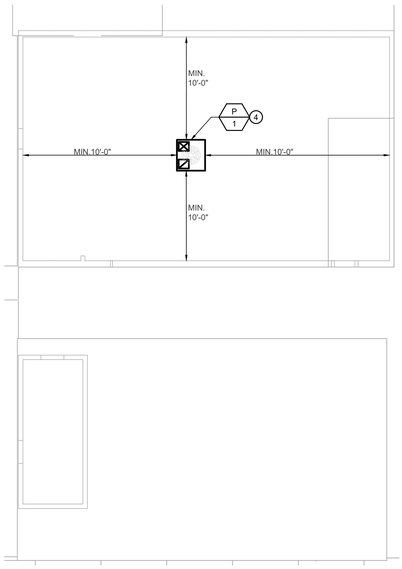
CONSULTANT

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SHEET DESCRIPTION:
MECHANICAL REMODEL PLANS - BUILDING F

SHEET NO:
M-1.4





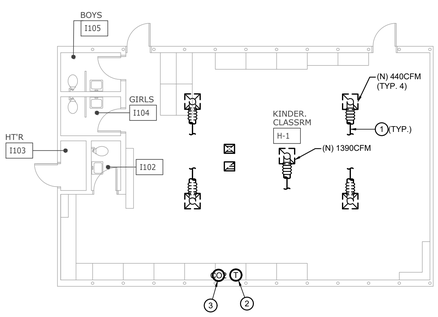
CONSTRUCTION KEY NOTES:

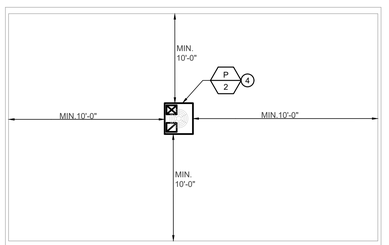
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3. INSTALL NEW SENVA TOTAL SERIES AQ2W-ACAAAAD NON-DISPLAY CO2 SENSOR AT 48" AFF. FIELD VERIFY ALL EXISTING LOCATIONS. INSTALL LOW VOLTAGE WIRING PER MANUFACTURER GUIDELINES.
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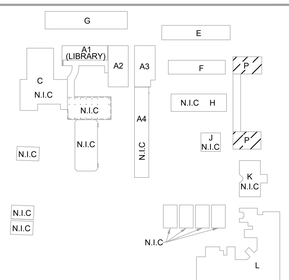
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SUSPENDED LAY-IN PANEL CEILING: 2025 CBC
   - 3. CEILING SYSTEM ALTERATION
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WALL LEGEND	
	NON-RATED WALL
	ONE-HOUR RATED WALL







REF. NORTH

MECHANICAL REMODEL FLOOR PLAN - BUILDING P | 1/8" = 1'-0" | 1

MECHANICAL REMODEL ROOF PLAN - BUILDING P | 1/8" = 1'-0" | 2

KEY PLAN | NOT TO SCALE

AGENCY APPROVAL

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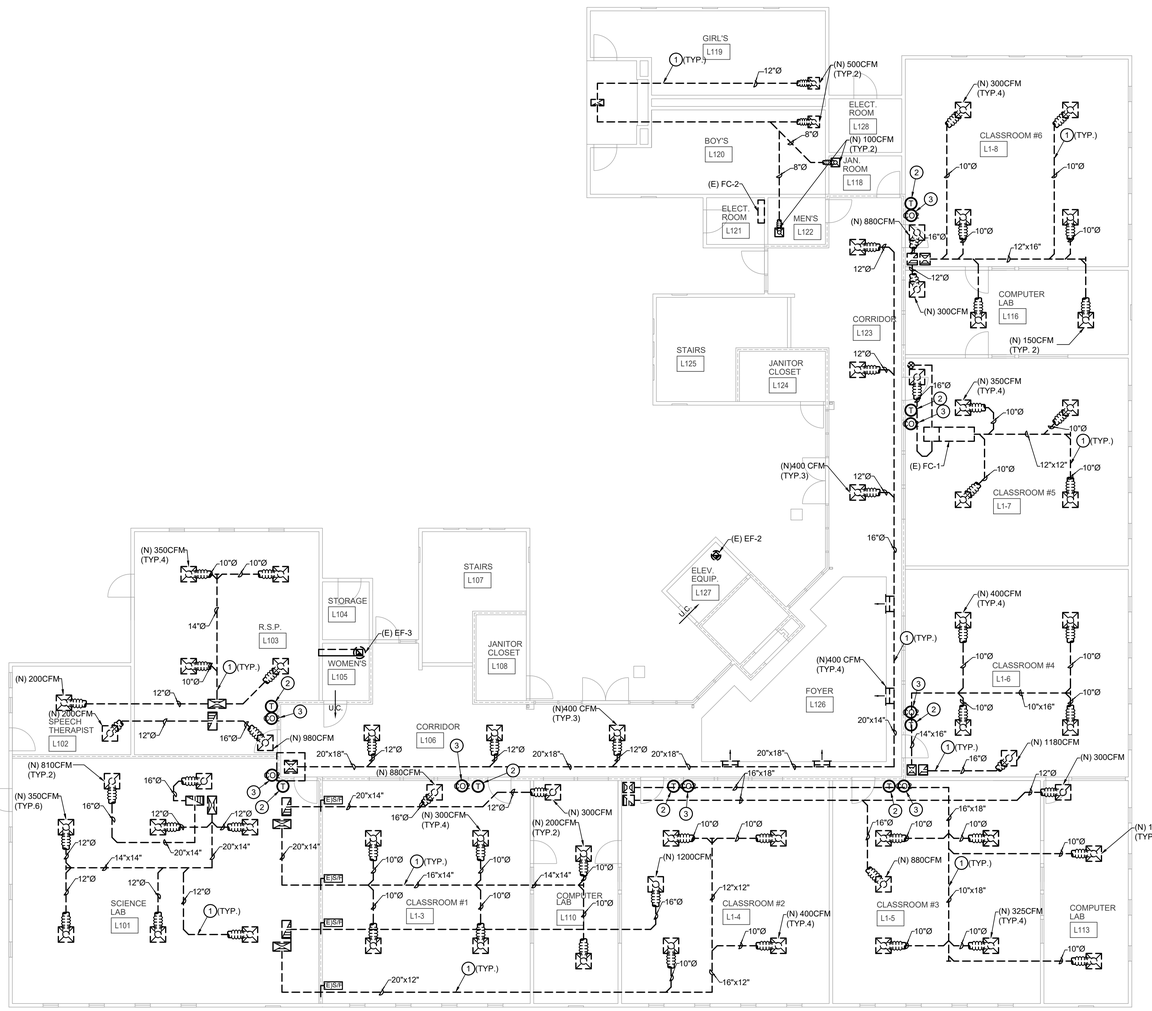
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ENGINEER:	OED
DSA NUMBER:	03-126114

CONSULTANT

STAMP

SHEET DESCRIPTION:
MECHANICAL REMODEL PLANS - BUILDING P

SHEET NO:
M-1.5



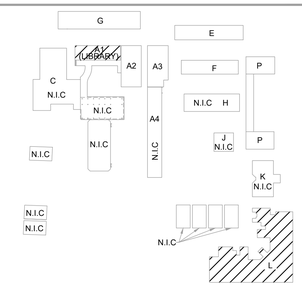
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7. REFERENCE TO DSA IR-25-2 SECTION 3.
SUSPENDED LAY-IN PANEL CEILING: 2025 CBC
- 3. CEILING SYSTEM ALTERATION
- 3.1 EXISTING GRID CUT OR ALTERED
WHEN ANY PORTION OF AN EXISTING GRID SYSTEM IS CUT OR ALTERED AND ANY ONE OF THE CONDITIONS DESCRIBED IN THE SUBSECTIONS BELOW APPLIES,THE ENTIRE CEILING IN THE AFFECTED SPACE SHALL BE EVALUATED AND UPGRADED AS REQUIRED TO MEET THE REQUIREMENTS OF THE CURRENT CBC AND THIS IR. WITH DSA CONCURRENCE, OTHER EXISTING LATERAL BRACING SYSTEMS MAY BE DEEMED EQUIVALENT TO A 4-WAY BRACE WIRE AND COMPRESSION POST LATERAL FORCE BRACING SYSTEM.
- 3.1.1 THE EXISTING CEILING DOES NOT HAVE LATERAL BRACING ASSEMBLIES (I.E.,4-WAY BRACE WIRES AND COMPRESSIONPOST).
- 3.1.2 THE EXISTING CEILING HAS LATERAL BRACING ASSEMBLIES(I.E.,4-WAY BRACE WIRES AND COMPRESSION POST) WITHSPACINGGREATERTHAN12-FEET ON CENTER IN EITHER PRINCIPAL AXIS.
- 3.1.3 THE AREA CUT OR ALTERED EXCEEDS 10 PERCENT OF THE ENTIRE CEILING AREA.THE "ENTIRE" CEILING IN THE AFFECTED SPACE IS DEFINED AS THE AREA OF CEILING BOUNDED BY FOUR WALLS OR A COMBINATION OF WALLS AND EXPANSION JOINTS OR SEISMIC SEPARATION JOINTS.
- 3.2 EXISTING GRID NOT CUT OR ALTERED
EVALUATION AND ASSOCIATED UPGRADE TO THE CEILING GRID,SUSPENSION SYSTEM, AND LATERAL FORCE BRACING ASSEMBLIES IS NOT REQUIRED WHEN THE CEILING GRID IS NOT CUT OR ALTERED, AND THE SCOPE OF WORK IS LIMITED TO THE FOLLOWING:
- 3.2.1 REPLACEMENT OF EXISTING CEILING PANELS WITH LIKE PANELS OF EQUAL OR LESSER WEIGHT.
- 3.2.2 REPLACEMENT OF LUMINAIRES OR AIR TERMINALS WITH LIKE UNITS (I.E.,EQUAL SIZE AND EQUAL OR LESSER WEIGHT) PLACED IN THE SAME LOCATIONS.
- 3.2.3 REPLACEMENT OF ONLY THE INTERNAL LIGHTING COMPONENTS EXISTING LUMINAIRES AND THE ATTACHMENT OF THE LUMINAIRE'S OUTER ENCLOSURE TO EXISTING GRID IS NOT (E.G.,LENS,BALLAST,OR LAMPS) WITHIN ALTERED.
- 3.3 REUSE OF EXISTING CEILING WIRES
EXISTING CEILING HANGER AND BRACING WIRES MAY BE REUSED PROVIDED THE FOLLOWING REQUIREMENTS ARE MET:
- 3.3.1 WIRE GAUGE AND SPACING COMPLIES WITH THE CURRENT APPLICABLE CODES AND THIS IR.
- 3.3.2 DSA-APPROVED CONSTRUCTION DRAWINGS INCLUDE A DETAIL SPECIFYING THE SPLICE BETWEEN A NEW AND EXISTING WIRE. ACCEPTABLE WIRE SPLICE DETAILS ARE PROVIDED IN APPENDIX A DETAIL6.10 BELOW.
- 3.3.3 WIRES ARE TESTED IN ACCORDANCE WITH SECTION 6.2 BELOW.

WALL LEGEND	
	NON-RATED WALL
	ONE-HOUR RATED WALL



MECHANICAL REMODEL FIRST FLOOR PLAN - BUILDING L | 1/8" = 1'-0" | 1 | KEY PLAN | NOT TO SCALE

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-126114 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 09/15/2026

optimum energy design
Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
Telephone (714) 693-2277

STAMP

REGISTERED PROFESSIONAL ENGINEER
ZAHRA FARIBA BAKHTIYARI
No. M25253
Exp. 6/30/27
MECHANICAL
STATE OF CALIFORNIA

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL

5260 CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1

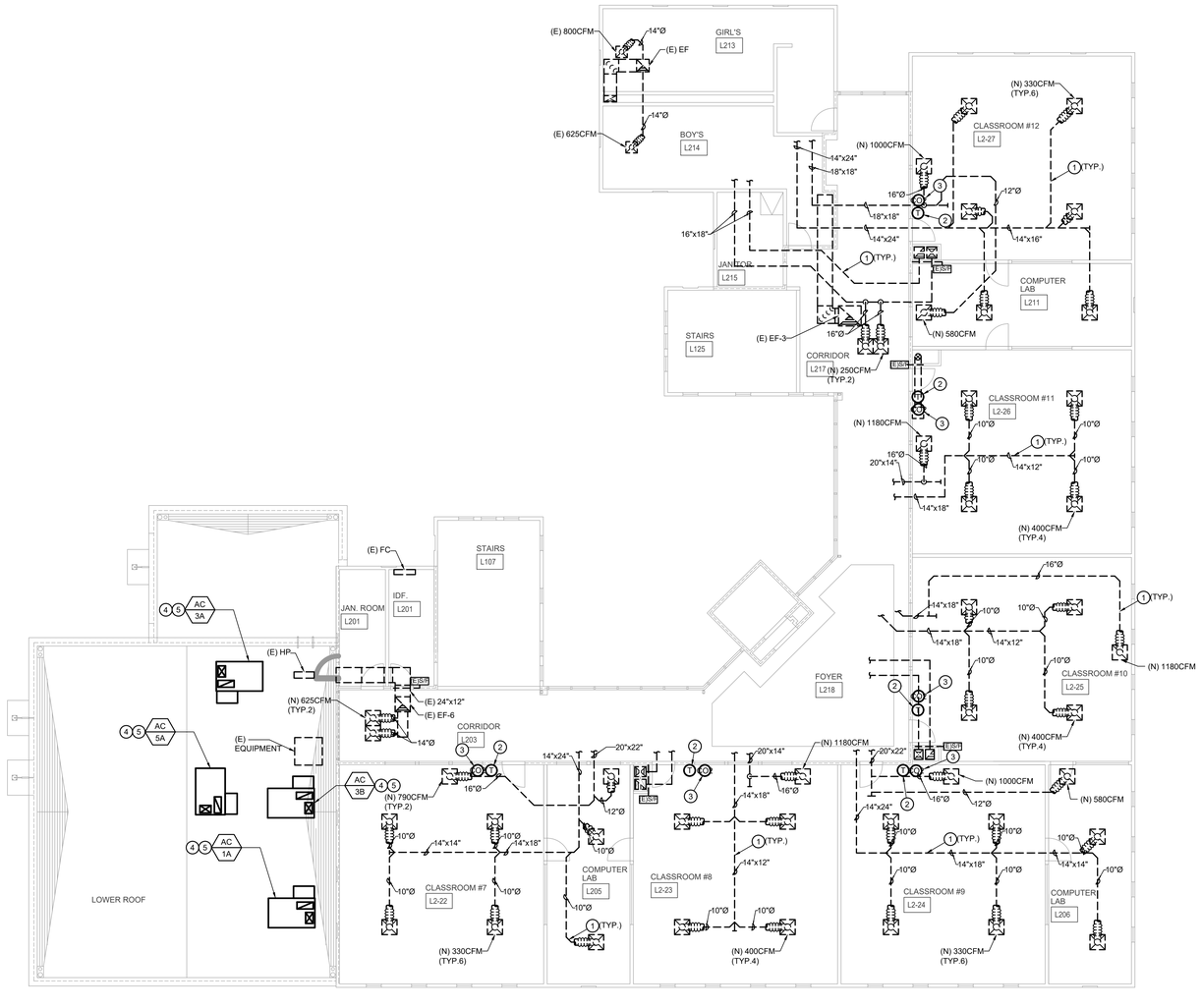
JOB NO:	501-26-0032
DATE:	09/04/2026
DRAWN:	VZ
CHECK:	ZF
ARCHITECT:	PETRA
ENGINEER:	OED
DSA NUMBER:	03-126114

CONSULTANT

STAMP

SHEET DESCRIPTION:
MECHANICAL REMODEL FIRST FLOOR PLAN - BUILDING L

SHEET NO:
M-1.6



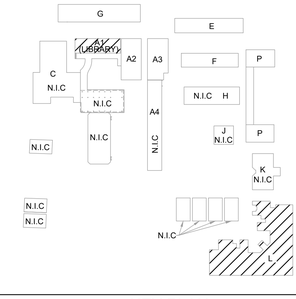
CONSTRUCTION KEY NOTES:

1. EXISTING DUCTWORK AND AIR DEVICES TO REMAIN.
2. INSTALL NEW THERMOSTAT AT 48" AFF AT SAME LOCATION AS EXISTING OR RELOCATE AS REQUIRED TO COMPLY WITH DETAIL 2/M-4.1. FIELD VERIFY ALL EXISTING LOCATIONS. INSTALL LOW VOLTAGE WIRING MATCHING EXISTING PATH FOR THERMOSTAT AND CO2 SENSOR POWER AND FOR CO2 SENSOR TO CONTROL NEW UNIT ECONOMIZER PER MANUFACTURER GUIDELINES. SEE DETAIL 1/M-4.1.
3. INSTALL NEW SENVA TOTAL SENSE SERIES AQ2W-ACAAAAD NON-DISPLAY CO2 SENSOR AT 48" AFF. FIELD VERIFY ALL EXISTING LOCATIONS. INSTALL LOW VOLTAGE WIRING PER MANUFACTURER GUIDELINES.
4. SEE DETAIL 1/S201 FOR ANCHORAGE. EXISTING ROOF CURB TO BE REINSTALLED. FOR DAMAGED ROOF CURB REPLACEMENT PROVIDE NEW. REUSE EXISTING SEISMIC CLIPS FOR CONNECTION TO EXISTING CURB. FOR MISSING OR DAMAGED SEISMIC CLIPS, PROVIDE NEW PER DETAIL 3/M-4.1.
5. INSTALL NEW FLUE DEFLECTOR PER MANUFACTURER GUIDELINES AND EXTEND 3'-0" ABOVE THE TOP OF OSA INTAKE HOOD.

CONSTRUCTION GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES AS NECESSARY PRIOR TO INSTALLATION.
2. BEFORE BIDDING ON THIS WORK, THE CONTRACTOR SHALL MAKE A CAREFUL EXAMINATION OF THE PREMISES, EXISTING EQUIPMENT AND SERVICES. HE SHALL DETERMINE IN ADVANCE, THE METHODS OF INSTALLING AND CONNECTING THE NEW EQUIPMENT, DUCTWORK, AND PIPING THE MEANS TO BE PROVIDED FOR GETTING THE EQUIPMENT AND MATERIALS INTO PLACE AND SHALL MAKE HIMSELF THOROUGHLY FAMILIAR WITH ALL OF THE REQUIREMENTS OF THE PROJECT. FAILURE TO VISIT THE SITE WILL IN NO WAY RELIEVE THE CONTRACTOR OF THE NECESSITY OF FURNISHING ANY MATERIAL OR PERFORMING ANY WORK THAT MAY BE REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. THIS ADDITIONAL WORK SHALL BE PERFORMED WITHOUT ADDITIONAL COST TO THE OWNER.
3. BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS AND DIMENSIONS OF ALL EXISTING EQUIPMENT AND ELECTRICAL SERVICES IN THE AREA OF CONSTRUCTION AND NOTIFY THE ENGINEER OR ANY DISCREPANCIES.
4. PATCH AND REPAIR EXISTING SURFACES AS REQUIRED TO FACILITATE DEMOLITION AND/OR PERFORMANCE OF THE NEW WORK. ALL NEW WORK SHALL MATCH IN KIND, QUALITY AND FINISH U.O.N.
5. CONTRACTOR SHALL MINIMIZE IMPACT TO EXISTING T-BAR CEILING
6. CONTRACTOR TO REMOVE AND REINSTALL CEILING AS NEEDED TO ACCESS HVAC SYSTEM AND EXISTING BUILDING SYSTEM. SEE SPECIFICATION SECTION FOR ADDITIONAL INFORMATION.
7. REFERENCE TO DSA IR-25-2 SECTION 3.
   SUSPENDED LAY-IN PANEL CEILING: 2025 CBC
   - 3. CEILING SYSTEM ALTERATION
   - 3.1 EXISTING GRID CUT OR ALTERED
     WHEN ANY PORTION OF AN EXISTING GRID SYSTEM IS CUT OR ALTERED AND ANY ONE OF THE CONDITIONS DESCRIBED IN THE SUBSECTIONS BELOW APPLIES,THE ENTIRE CEILING IN THE AFFECTED SPACE SHALL BE EVALUATED AND UPGRADED AS REQUIRED TO MEET THE REQUIREMENTS OF THE CURRENT CBC AND THIS IR. WITH DSA CONCURRENCE, OTHER EXISTING LATERAL BRACING SYSTEMS MAY BE DEEMED EQUIVALENT TO A 4-WAY BRACE WIRE AND COMPRESSION POST LATERAL FORCE BRACING SYSTEM.
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   - 3.3.3 WIRES ARE TESTED IN ACCORDANCE WITH SECTION 6.2 BELOW.

WALL LEGEND	
	NON-RATED WALL
	ONE-HOUR RATED WALL



MECHANICAL REMODEL SECOND FLOOR PLAN - BUILDING L | 1/8" = 1'-0" | 1 | KEY PLAN | NOT TO SCALE

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-126114 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 09/15/2026

optimum energy design
Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
Telephone (714) 693-2277

STAMP

REGISTERED PROFESSIONAL ENGINEER
ROBERT BAKEMEYER
No. M29253
Exp. 6/30/27
MECHANICAL
STATE OF CALIFORNIA

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL
5260 CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1

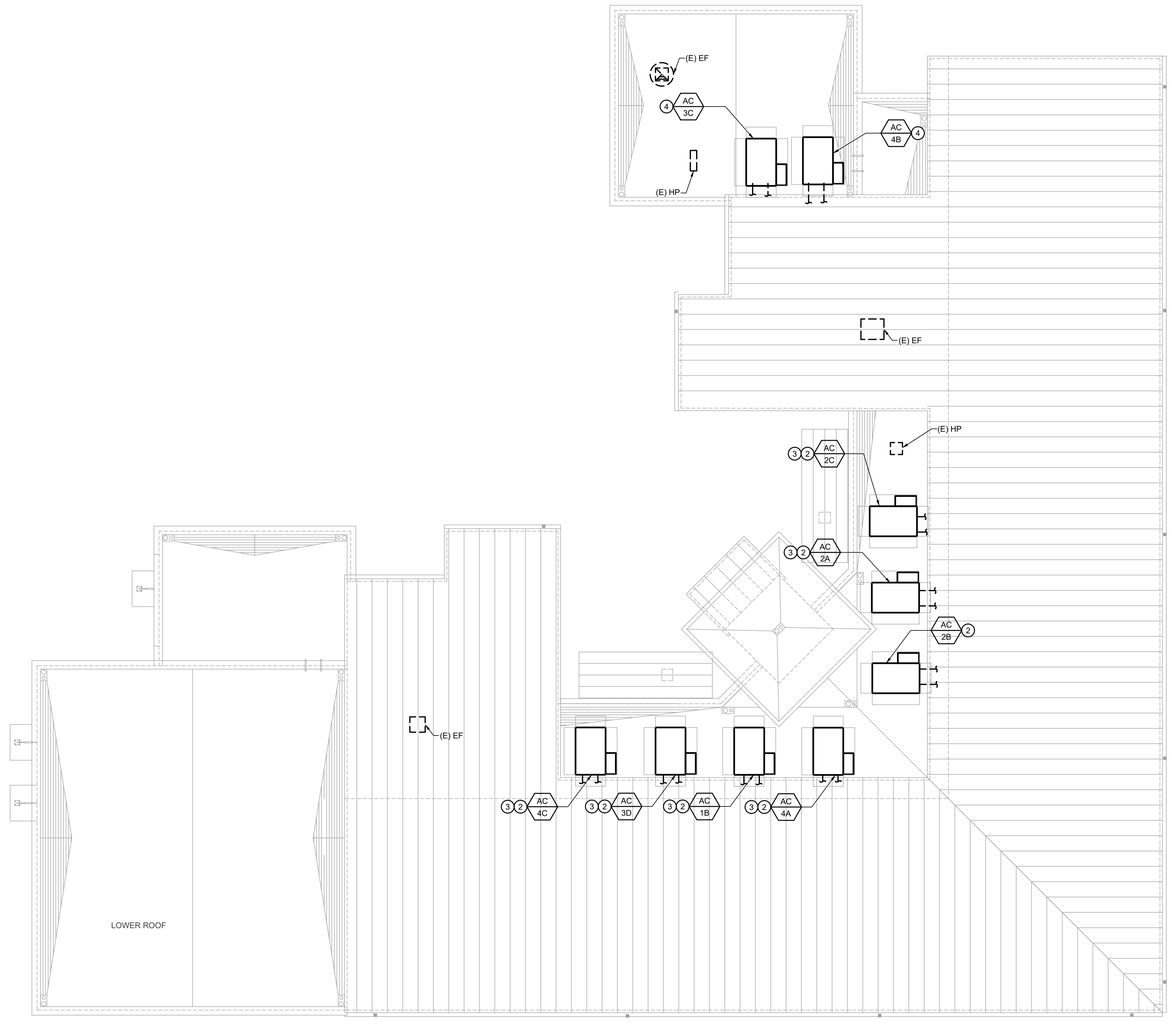
JOB NO:	501-26-0032
DATE:	09/04/2026
DRAWN:	VZ
CHECK:	ZF
ARCHITECT:	PETRA
ENGINEER:	OED
DSA NUMBER:	03-126114

CONSULTANT

STAMP

SHEET DESCRIPTION:
MECHANICAL REMODEL SECOND FLOOR PLAN - BUILDING L

SHEET NO:
M-1.6.1



REF. NORTH

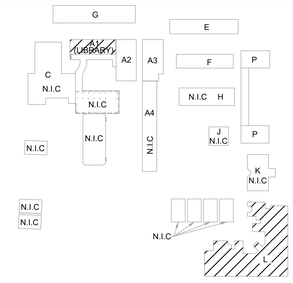
CONSTRUCTION KEY NOTES:

1. EXISTING DUCT DOWN THRU ROOF TO REMAIN.
2. SEE DETAILS 12/S201 FOR ANCHORAGE. EXISTING ROOF CURB TO BE REINSTALLED. FOR DAMAGED ROOF CURB REPLACEMENT PROVIDE NEW. REUSE EXISTING SEISMIC CLIPS FOR CONNECTION TO EXISTING CURB. FOR MISSING OR DAMAGED SEISMIC CLIPS, PROVIDE NEW PER DETAIL 3/M-4.1.
3. INSTALL NEW FLUE DEFLECTOR PER MANUFACTURER GUIDELINES AND EXTEND 3'-0" ABOVE THE TOP OF OSA INTAKE HOOD.
4. SEE DETAIL 1/S201 FOR ANCHORAGE. EXISTING ROOF CURB TO BE INSTALLED. FOR DAMAGED ROOF CURB REPLACEMENT PROVIDE NEW. REUSE EXISTING SEISMIC CLIPS FOR CONNECTION TO EXISTING CURB. FOR MISSING OR DAMAGED SEISMIC CLIPS, PROVIDE NEW PER DETAIL 3/M-4.1.

CONSTRUCTION GENERAL NOTES:

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3. BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS AND DIMENSIONS OF ALL EXISTING EQUIPMENT AND ELECTRICAL SERVICES IN THE AREA OF CONSTRUCTION AND NOTIFY THE ENGINEER OR ANY DISCREPANCIES.
4. PATCH AND REPAIR EXISTING SURFACES AS REQUIRED TO FACILITATE DEMOLITION AND/OR PERFORMANCE OF THE NEW WORK. ALL NEW WORK SHALL MATCH IN KIND, QUALITY AND FINISH U.O.N.
5. CONTRACTOR SHALL MINIMIZE IMPACT TO EXISTING GLU-UP & T-BAR CEILING TILES AND IMPLEMENT MEASURES TO MITIGATE DAMAGE TO THE EXISTING CEILING SYSTEM.
6. CONTRACTOR TO PROVIDE POST AIR BALANCE FOR NEW SYSTEM AND AIR DISTRIBUTION. SEE SPECIFICATION SECTION FOR ADDITIONAL INFORMATION.
7. REFERENCE TO DSA IR-25-2 SECTION 3.
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- 3. CEILING SYSTEM ALTERATION
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WALL LEGEND	
	NON-RATED WALL
	ONE-HOUR RATED WALL



N

MECHANICAL REMODEL ROOF PLAN - BUILDING L | 1/8" = 1'-0" | 1 | KEY PLAN | NOT TO SCALE

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-126114 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 09/15/2026

oed optimum energy design
Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
Telephone (714) 693-2277

STAMP

REGISTERED PROFESSIONAL ENGINEER
ROBERT BAKEMEYER
No. M29253
Exp. 6/30/27
MECHANICAL
STATE OF CALIFORNIA

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL
5260 CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1
2		
3		
4		

JOB NO:	501-26-0032
DATE:	09/04/2026
DRAWN:	VZ
CHECK:	ZF
ARCHITECT:	PETRA
ENGINEER:	OED
DSA NUMBER:	03-126114

CONSULTANT

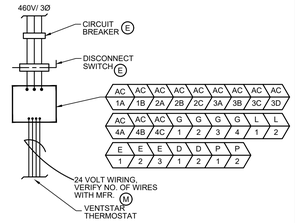
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MECHANICAL REMODEL ROOF PLAN - BUILDING L

SHEET NO:
M-1.6.2

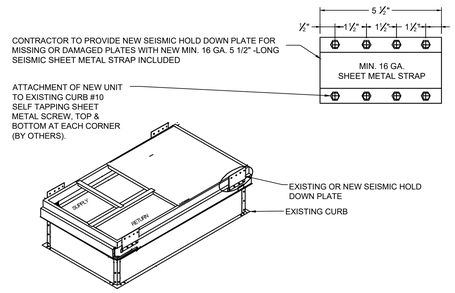
NOT USED

SCALE NONE | 5



AC WITH EQUAL OR LESS THAN 2000 CFM

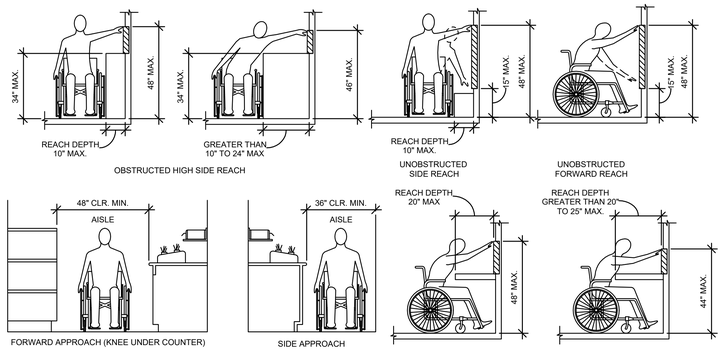
A/C CONTROL(ECONOMIZER) | SCALE NONE | 4



SEISMIC PLATE DETAIL | SCALE NONE | 3

FORWARD REACH TO WALL MOUNTED OBJECTS W/O OBSTRUCTIONS
30"x48" CLEAR FLOOR SPACE FOR FORWARD APPROAC IS PROVIDED TO OBJECT.
- ONE FULL UNOBSTRUCTED SIDE OF THE CLEAR FLOOR SPACE ADJOINS AN ACCESIBLE ROUTE OR ADJOINTS ANOTHER WHEELCHAIR CLEAR FLOOR SPACE

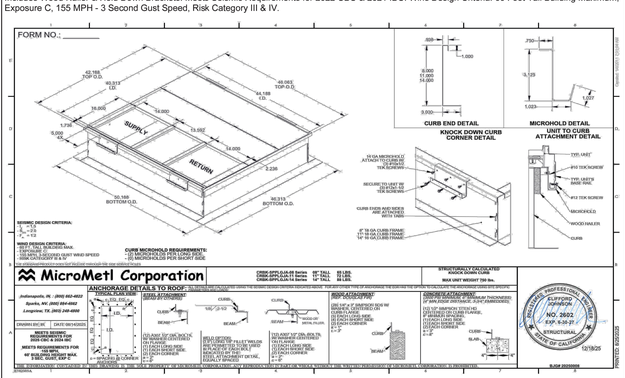
SIDE REACH - WALL MOUNTED OBJECTS W/O OBSTRUCTIONS
30"x48" CLEAR FLOOR SPACE FOR PARALLEL APPROACH IS PROVIDED AT OBJECT.
- ONE FULL UNOBSTRUCTED SIDE OF THE CLEAR FLOOR SPACE ADJOINS AN ACCESIBLE ROUTE OR ADJOINTS ANOTHER WHEELCHAIR CLEAR FLOOR SPACE



CONTROL DEVICE MOUNTING DETAIL | SCALE NONE | 2

MicroMetl | Date: | Weight: 80lbs (US) 36.29kg (Metric) | Part Number: CRBK-SPPLGJA-141H
RTU: | Submitted to: | Approved by: | Notes:

Knockdown Structurally Calculated Curb - 14 Inches Tall Non Insulated Full Perimeter Knockdown Structurally Calculated Curb, California State Standard, High Seismic Criteria, Includes Hold-Down Brackets. "Structurally" Stamped By A Professional Engineer, Without Pitch, Insulated Deck Pan If Applicable, Includes Wood Nailer & Hold Down Brackets. Meets Seismic Requirements for 2022 CBC & 2021 IBC. Wind Design Criteria: 60 Foot Tall Building Maximum, Exposure C, 155 MPH - 3 Second Gust Speed, Risk Category III & IV.



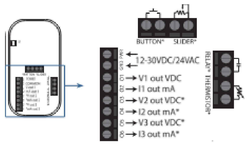
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Master Revision: 0001A | Page Revision: 0001A

Indianapolis_3035 N. Shadeland Ave., Indianapolis, IN 46226_800.MMC.HVAC ▪▪ Sparks_905 Southern Way, Sparks, NV 89431_800.864.4MMC ▪▪ Longview_201 Kodak Blvd., Longview, TX 75602_903.248.4800

A/C UNIT ROOF CURB FOR BUILDINGS LIBRARY (A1), G, E, F, & P | SCALE NONE | 6

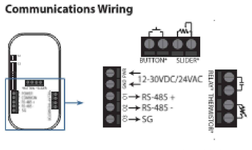
Analog Wiring



*These terminals may not be populated depending on which model is ordered.

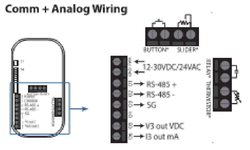
Outputs 1 (V1,I1), 2(V2,I2) and 3(V3,I3), will be auto populated in order of the AQ2W ordering matrix:
CO2, RH, Temp, VOC, PM, Slider, CO, O3

Communications Wiring



NOTE: A 120 Ω termination resistance may be added in parallel with the RS-485 +/- by moving the very top DIP switch (DIP 1) to the left position. See "DIP Configuration" section for more information.

Comm + Analog Wiring



SENVA

SPECIFICATIONS

Power Supply	Non-Display	16-30VDC/24VAC(1), 3.5W nominal, 4W max.
	Display or LED Ring	24-30VDC/24VAC(1), 4.3W nominal, 5W max.
Interface	OLED (optional)	1.5" Organic LED Display, 128x128, color
	Air Quality Ring	Color changing (red/yellow/green) LED Air Quality Ring
Analog Outputs (Analog version only)	Quantity	Up to 3 outputs
	Source	CO2, RH%, Temp, Temp slider, TVOC (selectable)
	Scale	0-5V, 0-10V, 4-20mA (switch selectable, programmable per output)
Protocol Output (Comms version only)	Protocol	BACnet MS/TP or Modbus RTU
	Connection	3-wire RS-485, with isolated ground
	Data Rate	9600, 19200, 38400, 57600, 76800, 115200 (switch selectable)
	Address Range	0-127
Relay (Standard except for PM models)	Type	Solid-state output, 1A @ 30VAC/DC, N.O.
	Polarity	NO/NC (selectable)
	Source	CO2 setpoint, RH setpoint, Temp setpoint, TVOC setpoint, PIR motion detection, Air Quality, off (selectable)
CO2 (Optional)	Type	Non-dispersive Infrared (NDIR)
	Accuracy	±(30ppm + 3% of reading) (400-2,000ppm), -10-50°C, 0-85%RH ±(50ppm+ 5% of reading) (2,000-5,000ppm), -10-50°C, 0-85%RH >5,000ppm consult factory
	Resolution	1 ppm
	Range	0-2,000 PPM (Default) (Programmable up to 10,000ppm)
	Response time	90 seconds to 90% reading
	Sample rate	1s
	Temp and Pressure Compensation	Yes, barometric pressure readable over comms
Relative Humidity (Optional)	Type	Digital CMOS
	Accuracy(2)	2% models, +/-2% over 0 to 80%RH range
	Resolution	0.05%RH
	Response time (3)	30s
	Sample rate	3s
	Operating range	0 to 100%RH (non-condensing)
	Operating conditions (4)	-4 to 140°F (-20 to 60° C) @ RH<90%; 4 to 176°F @ RH=50%
Temperature Transmitter (Optional)		With RH option / Without RH option
	Type	Silicon Band-gap / NTC Thermistor
	Nominal Accuracy	±0.3° C (operating range) / ±0.5° C (operating range)
	Maximum Accuracy (3)	±0.5° C (at 25° C), ±1.0° C / ±1.0° C (at 25° C), ±2.0° C
	Resolution	0.1° C / 0.05° C
	Response time	30s / 30s
	Sample rate	3s / 100 milliseconds
TVOC (Optional)	Type	MOS
	Gas	Total VOC
	Range	0-10,000 µg/m³ (Display may be programmed to show PPB)
	Response Time	<10s
	Temp and Pressure Compensation	Yes
	Output	0-2,000 µg/m³ (default) programmable up to 10,000 µg/m³

1. *One side of transformer, secondary is connected to signal common. Dedicated transformer is recommended.*
2. *Models with PM sensor included achieve ±5% accuracy over 0 to 80%RH range and an additional temperature shift of up to +0.5°C*
3. *Time for reaching 63% of reading at 25° C and 1 m/s airflow*
4. *Long term exposures to conditions outside normal range at high humidity may temporarily offset the RH reading (+3%RH after 60 hours.)*

SENVA

AIR QUALITY

SPECIFICATIONS

PMx (Optional) CLASS 1 LASER PRODUCT	Type	Optical
	Size Range	PM1.0, PM2.5, PM4.0, PM10.0
	Scale	0-1,000 µg/m³
	Lower detection limit	0.3 µm
	Precision	±10 µg/m³ (0-100µg/m³); ±10% (100-1,000 µg/m³)
	Long-Term Drift	±1.25 µg/m³ / year
PIR (Optional)	Type	Passive Infrared
	Axis X field of view	140°, 15 ft (4.5m)
	Axis Y field of view	76°, 15 ft (4.5m)
Ambient Light	Type	Phototransistor
	Scale	0-100 fc (lm/ft²), readable over comms
Operating Environment	Temperature	32 to 122ºF (0 to 50ºC)
	Humidity	0-95% non-condensing
Enclosure	Material	ABS Plastic
	Dimensions	5.67"h x 3.00"w x 1.07"d (With concealing ring: 6.35"h x 3.69"w x 1.25"d)
Compliance	Agency	CE, RoHS

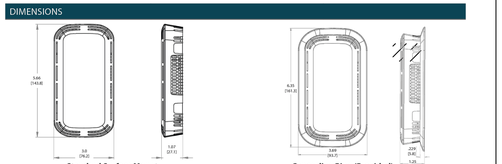
BACnet® is a registered trademark of ASHRAE

ORDERING

AQ2 - [Package: W = Surface] [Output Type: A = Analog, B = BAC'net/ Modbus] [CO2: A = None, C = CO2, D = Dual Channel CO2] [Relative Humidity: A = None, 2 = 2% RH] [VOC: A = None, V = VOC] [Particulate Matter*: A = None, P = PM 1.0, 2.5, 4.0, 10.0] [Temperature Output: A = None, B = Transmitter, C = 100Pt RTD, D = 1000Pt RTD, E = 10K Type 2, F = 10K Type 3, G = 10k w/11k, H = 3k, I = 2k2, J = 1k8, K = 20k] [Display: X = None, D = OLED Display, S = OLED display with solid cover, R = Air Quality Ring] [PIR Sensor: P = PIR Sensing; Accessories**: C = 1k Ω SP Slider, F = 10k Ω SP Slider, E = 910 Ω offset resistor, S= Slider override PB, O = Thermistor Override PB, U = User PB]

*PM Available on AQ2W-B Surface mount = BACnet/Modbus versions only
**Additional SP sliders and offset resistors available upon request.
**Slider and pushbutton options not available with PM sensor. Call for additional slider and override options.

DIMENSIONS



- Concealed oversized drywall cutouts or European junction boxes

SENVA CO2 SENSOR SPECS | SCALE NONE | 1

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-126114 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 09/15/2026

optimum energy design
Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
Telephone (714) 693-2277

STAMP

REGISTERED PROFESSIONAL ENGINEER
ROBERT BAKEMEYER
No. M29253
Exp. 6/30/27
MECHANICAL
STATE OF CALIFORNIA

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL
5260 CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1
2		
3		
4		

JOB NO: 501-26-0032
DATE: 09/04/2026
DRAWN: VZ
CHECK: ZF
ARCHITECT: PETRA
ENGINEER: OED
DSA NUMBER: 03-126114

CONSULTANT

STAMP

SHEET DESCRIPTION:
MECHANICAL DETAILS

SHEET NO:
M-4.1

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-MCH-E

This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.

Project Name:	Abbott Elementary School BLDG A1	**Report Page:**	**(Page 1 of 12)**
Project Address:		**Date Prepared:**	2026-06-29T14:09:10-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Lynwood	04	Total Conditioned Floor Area	1842
02	Climate Zone	8	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

● Library ● School or Classroom

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, §170.2(b) or §141.0(b)2 and §180.2(b)2 for alterations.

01 Air System(s)	02 Wet System Components	03 Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
☒ Ventilation (including DOAS, ERV, HRV systems)	☐ System Piping	☒ Fan Systems
Mechanical Controls	☐ Cooling Towers	☒ Ductwork (existing to remain, altered or new)
	☐ Chillers	
☒ Mechanical Controls (existing to remain, altered or new)	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

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C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary §110.1, §110.2, §140.4, §170.2(c), §141.0(b), §180.2(b)2	AND	Pumps §140.4(k), §170.2(c)4I	AND	Fans/Economizers §140.4(c), §140.4(e), §140.4(p), §170.2(c)	AND	System Controls § 110.2, §120.2, §140.4(f), §140.4(r), §170.2(c)I	AND	Ventilation §120.1, §160.2	AND	Terminal Box Controls §140.4(d), §170.2(c)4B	AND	Distribution §120.3, §140.4(l), §160.2, §160.3, §141.0(b)2D, §180.2(b)2B	AND	Cooling Towers §110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND	Yes	AND	Yes	AND	Yes	AND		AND	Yes	AND		COMPLIES
Mandatory Measures Compliance (See Table Q for Details)															COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01 System Name	02 Quantity	03 System Serving	04 System Status	05 Space Type	06 Utilizing Recovered Heat
L-1,2	2	Single zone	Alteration	Library	☐

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (Includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01 Name or Item Tag	02 Equipment Category per Tables 110.2, §140.4(a)2 and 170.2(c)3aii	03 Equipment Type per Tables 110.2 and Title 20	04 Smallest Size Available [1] §140.4(a) and §170.2(c)1	05 Equipment Sizing per Mechanical Schedule (kBtu/h) §140.4(a&b), §170.2(c)1 & §170.2(c)2						
				Heating Output [2,3]		Cooling Output [2,3]		Load Calculations [3,4]		
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
L-1,2	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	Yes	45.86	45.86	0	36.33	46.97	45.86	36.33

[1] FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per §140.4(a) and §170.2(c)1. Healthcare facilities are excepted.
[2] It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.
[3] If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.
[4] Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(b) and §170.2(c).

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01 Name or Item Tag	02 Size Category (Btu/h)	03 Heating Mode	04	05	06	07 Cooling Mode	08	09	10
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Refrigerant Loop Heat Recovery	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
L-1,2	<65,000		HSPF2	Federal Minimum	6.7		SEER2	FederalMinimum	13.4

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Mechanical Heat Recovery§140.4(s)

01 Name or Item Tag	02 Coincident Peak Cooling Load of All High Load Spaces (kBtu/h)	03 Design Capacity of All Mechanical Cooling Systems[1] (kBtu/h)	04 Design Capacity of All Service Water Heating Systems[1] (kBtu/h)	05 Design Capacity for all space heating systems (kBtu/h)	06 Simultaneous Mechanical Heat Recovery	07

[1] FOOTNOTES: Excluding systems expected to operate less than 5 hours per week.
[2] FOOTNOTES: If the design includes capacity for future cooling systems, then assume 20% of future systems serve high load spaces.

G. PUMPS

This section does not apply to this project.

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H. FAN SYSTEMS & AIR ECONOMIZERS

This table is used to demonstrate compliance with prescriptive requirements found in §140.4(c), §140.4(e), §140.4(m), §170.2(c)3, and §170.2(c)4A for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name	L-1,2	Quantity	2	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units?	Not Serving Dwelling Units	Fan System Airflow (cfm)	1,590	Site Elevation	100	Economizer	Fixed Temperature
01	02	03		04		05		06	07	08	09			10	11
									Allowance		Design				
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)		Water Gauge (w.g)	Component Allowance (watt/cfm)	Fan Allowance (watt/cfm)[3]	Design Electrical Input Power Method			Motor Nameplate Horsepower	Fan Electrical Input Power (kW)
L-1,2	Supply	1	Hydronic/DX cooling coil or heat pump coil			100			0.139	0.324	Manufacturer provided				0.43
			MERV 13-16 Filter upstream of thermal conditioning equipment			100			0.139						
			Economizer Return Damper			100			0.046						
Supply Fan Base Allowance (watt/cfm)			Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)						Fan System Allowance (kW)[3]						0.43

[1] FOOTNOTES: Fans serving spaces with design background noise goals below NC35
[2] Low-turndown single-zone VAV fan system must be capable of and configured to reduce airflow to 50 percent of design airflow and use no more than 30 percent of the design wattage at that airflow. No more than 10 percent of the design load served by the equipment shall have fixed loads.
[3] Fan system allowance includes fan system base allowance.
[4] Filter pressure loss can only be counted once per fan system.
[5] Complex Fan System means a fan system that combines a single cabinet fan system with other supply fans, exhaust fans, or both.
[6] Computer room economizers must meet requirements of §140.9(a) and will be documented on the NRCC-PRC-E document..

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H. FAN SYSTEMS & AIR ECONOMIZERS

[7] Indoor fans meeting the requirements of 140.4(o)3D shall turn off when there is no demand for heating or cooling in the space. At 66% air flow the power draw shall be no more than 51% of the fan power at full fan speed and at 33% airflow the power draw shall be no more than 12% of the fan power at full fan speed.

H. EXHAUST AIR HEAT RECOVERY 140.4(q), 170.2(c)4O

01 Fan System Name	02 Qty	03 Hours of Operation per Year	04 Design Supply Airflow Rate	05 Outdoor Airflow	06 % Outdoor Air at Full Design Airflow	07 Exemptions to Exhaust Air Heat Recovery Requirement per §140.4(q) & §170.2(c)4O	08 Exhaust Air Heat Recovery §140.4(q) & §170.2(c)4O	09 Type Of Heat Recovery Rating	10 Required Recovery Ratio	11 Energy Recovery Bypass
L-1,2			1,590	200	13	NA: Total airflow exhausted and relieved within 20ft <75% per Exception 6 to 140.4(q)				

Fan Energy Index (FEI)

01 Name or Item Tag	02 FEI Exception	03 FEI
L-1,2	Embedded Fan <5HP or <4.1kW	

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I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in §110.2 and §120.2 and prescriptive controls in §140.4(f) and (n), §170.2(c)4D §170.2(c)4L or requirements in §141.0(b)2E §180.2(b)2 for altered space conditioning systems.

01 System Name	02 System Zoning	03 Conditioned Floor Area Being Served (ft²)	04 Thermostats §110.2(b) & (c)[1], §120.2(a) §160.3(a)2A or §160.3(b)3B or §141.0(b)2E & §180.2(b)2	05 Shut-Off Controls §120.2(e)1 & §160.3(a)2D	06 Isolation Zone Controls §120.2(g)1 & §160.3(a)2F	07 Demand Response §110.12 §120.2(b) & §160.3(a)2B	08 Supply Air Temp. Reset §140.4(f) & §170.2(c)4D	09 Window Interlocks per §140.4(n) & §170.2(c)4D	10 Direct Digital Control (DDC) per §120.2	11 JA18 Guideline 36 Library Version	12 Heat Pump Defrost per §160.3(b)7
Packaged Units (L)	Single zone	<= 25,000 ft²	Setback + DR Tstat per §110.12	Auto Timer Switch	NA: Single Zone	DR Tstat per §110.12	NA; Single Zone	NA: Alteration Project	NA: Single Zone	---	NA: No Heat Pump

[1] FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

J. VENTILATION AND INDOOR AIR QUALITY

This 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 nonresidential and hotel/motel and it-t24refnolnk/1160.2, §160.3(a)3D, §170.2(c)4N, 170.2(c)4O for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

01	☐	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☒	Check this box if the project included Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces
	☐	
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per §120.1(c)2.

Nonresidential and Hotel/ Motel Multifamily Common Use Ventilation Systems

04	05		06		07	
System Name	L-1,2	System Design OA CFM Airflow[1]	200	System Design Transfer Air CFM	0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 [2]
						Provided

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J. VENTILATION AND INDOOR AIR QUALITY

08 Space Name or Item Tag	09 Mechanical Ventilation Required per §120.1(c)[3] & §160.2(c)3		10	11	12	13	14 Exh. Vent per §120.1(c)4 & §160.2(c)4	15 Provided per Design CFM	16 DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3[4] §160.2(c)5D §160.2(c)5D		
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM					
Library	Library - reading room/ stacks	921		9	138.15				DCV	Provided per §120.1(d)4	
									Occ Sensor	NA: Alteration	
17	Total System Required Min OA CFM				138.15	18	Ventilation for this System Complies?		Yes		

[1] FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system
[2] Air filtration requirements apply to the following three system types per §120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.
[3] Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.
[4] See Standards Tables 120.1-A and 120.1-B.
[5] For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.
[6]Upon detection of sensor failure, the system shall provide a signal which resets to supply the minimum quantity of outside air to levels required by Section 120.1(c)3.

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This 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.

01	☐	Insulation 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.

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L. DISTRIBUTION (DUCTWORK and PIPING)

Duct Leakage Testing

The answers to the questions below apply to the following duct systems: Existing duct system to remain. No modification s.

		NR/ Common Use: Duct leakage testing shall not exceed 15% per NA7.5.3 required for these systems?	No
		Dwelling Units: Total duct leakage of duct system shall not exceed 15% or duct system to outside shall not exceed 10% per RA3.1.4 required for systems?	---
		Duct leakage testing per CMC Section 603.9.2 required for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.	
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:	
15	No	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A	
18	No	All ductwork is an extension of an existing duct system	
19	No	Ductwork serving individual dwelling unit	
20		< 25 ft of new or replacement space conditioning ducts installed	
21	R-4.2	Duct Insulation R-value	
22	Yes	Ductwork Existing To Remain	
23	Yes	Duct System Connected To Altered Space Conditioning System	

M. COOLING TOWERS

This section does not apply to this project.

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N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2025-building-energy-efficiency-1

Form/Title
NRCI-MCH-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html and the drafts can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2025-building-energy-efficiency-1

Form/Title	Systems/Spaces To Be Field Verified
NRCA-MCH-02-A - Outdoor Air	L-1,2
NRCA-MCH-03-A - HVAC and Heat Pumps - Const Volume Single Zone HVAC	Packaged Units (L)
NRCA-MCH-05-A - Air Economizer, DOAS, HRV, & ERV Controls	L-1,2
NRCA-MCH-06-A Demand Control Ventilation Systems	Library
NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance	L-1,2

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

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Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	Plan sheet or construction document location
03 Mandatory Measure		**04 Plan sheet or construction document location**
Heating Equipment Efficiency per §110.1, Title 20, and federal minimums		M0.2 Mechanical Schedules
Cooling Equipment Efficiency per §110.1, Title 20, and federal minimums		M0.2 Mechanical Schedules
Furnace Standby Loss Control per §110.2(d)		M0.2 Mechanical Schedules
Duct Insulation per §120.4		M-0.1
Heat Pump with Supplemental electric Resistance Heater Controls per §110.2(b)		N/A
The air duct and plenum system is designed per §120.4(a)-(f)		M-0.1 Mechanical General Notes & Legend
Kitchen range hoods shall be rated for sound in accordance with Section 7.2 of ASHRAE 62.2		N/A

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Micah Rummler	Documentation Author Signature: Micah R
Company: Optimum Energy Design	Signature Date: 06/29/2026
Address: 5200 E La Palma Ave.	CEA/ACA/ECC Certification Identification (if applicable):
City/State/Zip: Anaheim, CA 92807	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. 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)
3. 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 requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. 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, plans and specifications submitted to the enforcement agency for approval with this building permit application.
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.

Responsible Person Name: Abby Banerjee	Responsible Person Signature:
Responsible Person Scope:	
Company: Optimum Energy Design	Date Signed: 06/29/2026
Address: 5200 E La Palma Ave.	License: M29253
City/State/Zip: Anaheim, CA 92807	Phone:

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AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-126114 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 09/15/2026

optimum energy design
Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
Telephone (714) 693-2277

STAMP

REGISTERED PROFESSIONAL ENGINEER
No. M29253
Exp. 6/30/27
MECHANICAL
STATE OF CALIFORNIA

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL
5260 CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1
2		
3		
4		

JOB NO: 501-26-0032
DATE: 09/04/2026
DRAWN: VZ
CHECK: ZF
ARCHITECT: PETRA
ENGINEER: OED
DSA NUMBER: 03-126114

CONSULTANT

STAMP

SHEET DESCRIPTION:
MECHANICAL TITLE 24 REPORTS BLDG A1

SHEET NO:
M-6.1

This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.

Project Name: Abbott Elementary School BLDG G	Report Page: (Page 1 of 14)
Project Address:	Date Prepared: 2026-06-29T14:21:54-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Lynwood	04	Total Conditioned Floor Area	3668
02	Climate Zone	8	05	Total Unconditioned Floor Area	455
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1
• Classroom					

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, §170.2(b) or §141.0(b)2 and §180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
☒ Ventilation (including DOAS, ERV, HRV systems)	☐ System Piping	☒ Fan Systems
Mechanical Controls	☐ Cooling Towers	☒ Ductwork (existing to remain, altered or new)
	☐ Chillers	
☒ Mechanical Controls (existing to remain, altered or new)	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

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C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D,, or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary §110.1, §110.2, §140.4, §170.2(c), §141.0(b), §180.2(b)2	AND	Pumps §140.4(k), §170.2(c)4i	AND	Fans/Economizers §140.4(c), §140.4(e), §140.4(p), §170.2(c)	AND	System Controls § 110.2, §120.2, §140.4(f), §140.4(i), §170.2(c)	AND	Ventilation §120.1, §160.2	AND	Terminal Box Controls §140.4(d), §170.2(c)4B	AND	Distribution §120.3, §140.4(l), §160.2, §160.3, §141.0(b)2D, §180.2(b)2B	AND	Cooling Towers §110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND	Yes	AND	Yes	AND	Yes	AND		AND	Yes	AND		COMPLIES
Mandatory Measures Compliance (See Table Q for Details)															COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
G-1,2,3,4	4	Single zone	Alteration	School or Classroom	☐

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
					Equipment Sizing per Mechanical Schedule (kBtu/h) §140.4(a&b), §170.2(c)1 & §170.2(c)2					
					Heating Output [2,3]		Cooling Output [2,3]		Load Calculations [3,4]	
Name or Item Tag	Equipment Category per Tables 110.2, §140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available [1] §140.4(a) and §170.2(c)1		Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design [5] (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
G-1,2,3,4	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	Yes	45.86	45.86	0	36.33	46.97	45.86	36.33	

[1] FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per §140.4(a) and §170.2(c)1. Healthcare facilities are excepted.
[2] It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.
[3] If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.
[4] Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(b) and §170.2(c).

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09	10
		Heating Mode					Cooling Mode		
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Refrigerant Loop Heat Recovery	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
G-1,2,3,4	<65,000		HSPF2	Federal Minimum	6.7		SEER2	FederalMinimum	13.4

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Mechanical Heat Recovery§140.4(L)

01	02	03	04	05	06	07
Name or Item Tag	Coincident Peak Cooling Load of All High Load Spaces (kBtu/h)	Design Capacity of All Mechanical Cooling Systems[1] (kBtu/h)	Design Capacity of All Service Water Heating Systems[1] (kBtu/h)	Design Capacity for all space heating systems (kBtu/h)	Simultaneous Mechanical Heat Recovery	

[1] FOOTNOTES: Excluding systems expected to operate less than 5 hours per week.
[2] FOOTNOTES: If the design includes capacity for future cooling systems, then assume 20% of future systems serve high load spaces.

G. PUMPS

This section does not apply to this project.

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H. FAN SYSTEMS & AIR ECONOMIZERS

This table is used to demonstrate compliance with prescriptive requirements found in §140.4(c), §140.4(e), §140.4(m), §170.2(c)3, and §170.2(c)4A for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name or Item Tag	G-2,3,4	Quantity	3	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units?	Not Serving Dwelling Units	Fan System Airflow (cfm)	1,590	Site Elevation	100	Economizer	Fixed Temperature
01	02	03	04			05		06	07	08	09			10	11
									Allowance		Design				
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)		Water Gauge (w.g)	Component Allowance (watt/cfm)	Fan Allowance (watt/cfm)[1]	Design Electrical Input Power Method			Motor Nameplate Horsepower	Fan Electrical Input Power (kW)
G-1,2,3,4	Supply	1	Economizer Return Damper			100			0.046						
			Hydronic/DX cooling coil or heat pump coil			100			0.139	0.324	Manufacturer provided				0.43
			MERV 13-16 Filter upstream of thermal conditioning equipment			100			0.139						
Supply Fan Base Allowance (watt/cfm)			Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)						Fan System Allowance (kW)[3]					Fan System Electrical Input Power (kW)	0.43

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H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	G-1	Quantity	1	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units?	Not Serving Dwelling Units	Fan System Airflow (cfm)	1,590	Site Elevation	100	Economizer	Fixed Temperature
01	02	03	04			05		06	07	08	09			10	11
									Allowance		Design				
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)		Water Gauge (w.g)	Component Allowance (watt/cfm)	Fan Allowance (watt/cfm)[1]	Design Electrical Input Power Method			Motor Nameplate Horsepower	Fan Electrical Input Power (kW)
G-1	Supply	1	Hydronic/DX cooling coil or heat pump coil			100			0.139	0.324	Manufacturer provided				0.43
			MERV 13-16 Filter upstream of thermal conditioning equipment			100			0.139						
			Economizer Return Damper			100			0.046						
Supply Fan Base Allowance (watt/cfm)			Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)						Fan System Allowance (kW)[3]					Fan System Electrical Input Power (kW)	0.43

[1] FOOTNOTES: Fans serving spaces with design background noise goals below NC35
[2] Low-turndown single-zone VAV fan system must be capable of and configured to reduce airflow to 50 percent of design airflow and use no more than 30 percent of the design wattage at that airflow. No more than 10 percent of the design load served by the equipment shall have fixed loads.
[3] Fan system allowance includes fan system base allowance.
[4] Filter pressure loss can only be counted once per fan system.
[5] Complex Fan System means a fan system that combines a single cabinet fan system with other supply fans, exhaust fans, or both.
[6] Computer room economizers must meet requirements of §140.9(a) and will be documented on the NRCC-PRC-E document..
[7] Indoor fans meeting the requirements of 140.4(o)3D shall turn off when there is no demand for heating or cooling in the space. At 66% air flow the power draw shall be no more than 51% of the fan power at full fan speed and at 33% airflow the power draw shall be no more than 12% of the fan power at full fan speed.

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H. EXHAUST AIR HEAT RECOVERY 140.4(q), 170.2(c)4O

01	02	03	04	05	06	07	08	09	10	11
Fan System Name	Qty	Hours of Operation per Year	Design Supply Airflow Rate	Outdoor Airflow	% Outdoor Air at Full Design Airflow	Exemptions to Exhaust Air Heat Recovery Requirement per §140.4(q) & §170.2(c)4O	Exhaust Air Heat Recovery §140.4(q) & §170.2(c)4O	Type Of Heat Recovery Rating	Required Recovery Ratio	Energy Recovery Bypass
G-2,3,4			1,590	400	25	NA: Total airflow exhausted and relieved within 20ft <75% per Exception 6 to 140.4(q)				
G-1			1,590	400	25	NA: Total airflow exhausted and relieved within 20ft <75% per Exception 6 to 140.4(q)				

Fan Energy Index (FEI)

01	02	03
Name or Item Tag	FEI Exception	FEI
G-2,3,4	Embedded Fan <5HP or <4.1kW	
G-1	Embedded Fan <5HP or <4.1kW	

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I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in §110.2 and §120.2 and prescriptive controls in §140.4(f) and (n), §170.2(c)4D §170.2(c)4L or requirements in §141.0(b)2E §180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09	10	11	12
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats §110.2(b) & (c)[1], §120.2(a) §160.3(b)3A or §160.3(b)8 or §141.0(b)2E & §180.2(b)2	Shut-Off Controls §120.2(e)1 & §160.3(a)2D	Isolation Zone Controls §120.2(g)1 & §160.3(a)2F	Demand Response §110.12 §120.2(b) & §160.3(a)2B	Supply Air Temp. Reset §140.4(f)1 & §170.2(c)4D	Window Interlocks per §140.4(n) & §170.2(c)4D	Direct Digital Control (DDC) per §120.2	JA18 Guideline 36 Library Version	Heat Pump Defrost per §160.3(b)7
Packaged Units (G)	Single zone	<= 25,000 ft²	Setback + DR Tstat per §110.12	Auto Timer Switch	NA: Single Zone	DR Tstat per §110.12	NA; Single Zone	NA: Alteration Project	NA: Single Zone	----	NA: No Heat Pump

[1] FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

J. VENTILATION AND INDOOR AIR QUALITY

This 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 nonresidential and hotel/motel and d.t24ref4nolnk/§160.2, §160.3(c)3D, §170.2(q)4N, 170.2(c)4Q for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

01	☐	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☒	Check this box if the project included Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces
	☐	
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per §120.1(c)2.

Nonresidential and Hotel/ Motel Multifamily Common Use Ventilation Systems

04		05		06	07	
System Name	G-1	System Design OA CFM Airflow[1]	400	System Design Transfer Air CFM	0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 [2]
						Provided

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J. VENTILATION AND INDOOR AIR QUALITY

08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3[1] & §160.2(c)3					Exh. Vent per §120.1(c)4 & §160.2(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3[2] §160.2(c)5D §160.2(c)5E §160.2(c)5O	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Office	Office space	633.5		3	95.02			DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alteration
Conference	Conference/ meeting	271		8	134.14			DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				229.17	18	Ventilation for this System Complies?		Yes

04	05		06		07	
System Name	G-2,3,4	System Design OA CFM Airflow[1]	400	System Design Transfer Air CFM	0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 [2]
						Provided

08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3[1] & §160.2(c)3					Exh. Vent per §120.1(c)4 & §160.2(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3[2] §160.2(c)5D §160.2(c)5E §160.2(c)5O	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Classroom	Classroom (ages 5-18)	920		23	345			DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				345	18	Ventilation for this System Complies?		Yes

[1] FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system

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J. VENTILATION AND INDOOR AIR QUALITY

[2] Air filtration requirements apply to the following three system types per §120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.
[3] Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.
[4] See Standards Tables 120.1-A and 120.1-B.
[5] For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.
[6]Upon detection of sensor failure, the system shall provide a signal which resets to supply the minimum quantity of outside air to levels required by Section 120.1(c)3.

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This 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.

01	☐	Insulation 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:	Existing duct system to	NR/ Common Use: Duct leakage testing shall not exceed 15% per NA7.5.3 required for these systems?	No

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CA Building Energy Efficiency Standards - 2025 Nonresidential Compliance Report Version: 2025.0.000 Schema Version: rev 20250101 Compliance ID: ECA-419802-0626-0003 Report Generated: 2026-06-29 11:22:03

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Abbott Elementary School BLDG G	Report Page: (Page 11 of 14)
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L. DISTRIBUTION (DUCTWORK and PIPING)

		remain. No modification [6].	**Dwelling Units:** Total duct leakage of duct system shall not exceed 15% or duct system to outside shall not exceed 10% per RA3.1.4 required for systems?	---
			Duct leakage testing per CMC Section 603.9.2 required for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities		
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.		
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.		
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:		
15	No	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.		
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.		
17	Yes	All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A		
18	No	All ductwork is an extension of an existing duct system		
19	No	Ductwork serving individual dwelling unit		
20		< 25 ft of new or replacement space conditioning ducts installed		
21	R-4.2	Duct Insulation R-value		
22	Yes	Ductwork Existing To Remain		
23	Yes	Duct System Connected To Altered Space Conditioning System		

M. COOLING TOWERS

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

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N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2025-building-energy-efficiency-1

Form/Title
NRCI-MCH-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html and the drafts can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2025-building-energy-efficiency-1

Form/Title	Systems/Spaces To Be Field Verified
NRCA-MCH-02-A - Outdoor Air	G-1; G-2,3,4
NRCA-MCH-03-A - HVAC and Heat Pumps - Const Volume Single Zone HVAC	Packaged Units (G)
NRCA-MCH-05-A - Air Economizer, DOAS, HRV, & ERV Controls	G-2,3,4; G-1
NRCA-MCH-06-A Demand Control Ventilation Systems	Office; Conference; Classroom
NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance	G-1,2,3,4

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

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Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	Plan sheet or construction document location
03		04
Mandatory Measure		**Plan sheet or construction document location**
Heating Equipment Efficiency per §110.1, Title 20, and federal minimums		M0.2 Mechanical Schedules
Cooling Equipment Efficiency per §110.1, Title 20, and federal minimums		M0.2 Mechanical Schedules
Furnace Standby Loss Control per §110.2(d)		M0.2 Mechanical Schedules
Duct Insulation per §120.4		M-0.1
Heat Pump with Supplemental electric Resistance Heater Controls per §110.2(b)		N/A
The air duct and plenum system is designed per §120.4(a)-(f)		M-0.1 Mechanical General Notes & Legend
Kitchen range hoods shall be rated for sound in accordance with Section 7.2 of ASHRAE 62.2		N/A

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Project Address:		Date Prepared: 2026-06-29T14:21:54-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Micah Rummler	Documentation Author Signature:	Micah R
Company:	Optimum Energy Design	Signature Date:	06/29/2026
Address:	5200 E La Palma Ave.	CEA/HERS/ECC Certification Identification (if applicable):	
City/State/Zip:	Anaheim, CA 92807	Phone:	

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. 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)
3. 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 requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. 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, plans and specifications submitted to the enforcement agency for approval with this building permit application.
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.

Responsible Person Name:	Abby Banerjee	Responsible Person Signature:	
Responsible Person Scope:			
Company:	Optimum Energy Design	Date Signed:	06/29/2026
Address:	5200 E La Palma Ave.	License:	M29253
City/State/Zip:	Anaheim, CA 92807	Phone:	

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AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-126114 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 09/15/2026

optimum energy design
Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
Telephone (714) 693-2277

STAMP

REGISTERED PROFESSIONAL ENGINEER — ABBEY BARENTER — No. M29253 Exp. 6/30/27 — MECHANICAL — STATE OF CALIFORNIA

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL
5260 CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1
2		
3		
4		

JOB NO: 501-26-0032
DATE: 09/04/2026
DRAWN: VZ
CHECK: ZF
ARCHITECT: PETRA
ENGINEER: OED
DSA NUMBER: 03-126114
CONSULTANT

STAMP

SHEET DESCRIPTION:
MECHANICAL TITLE 24 REPORTS BLDG G

SHEET NO:
M-6.2

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.		
Project Name: Abbott Elementary School BLDG E	**Report Page:**	**(Page 1 of 12)**
Project Address:	**Date Prepared:**	2026-06-29T14:19:52-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Lynwood	04	Total Conditioned Floor Area	2662
02	Climate Zone	8	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

● Classroom ● School or Classroom

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, §170.2(b) or §141.0(b)2 and §180.2(b)2 for alterations.

01 Air System(s)	02 Wet System Components	03 Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
☒ Ventilation (including DOAS, ERV, HRV systems)	☐ System Piping	☒ Fan Systems
Mechanical Controls	☐ Cooling Towers	☒ Ductwork (existing to remain, altered or new)
	☐ Chillers	
☒ Mechanical Controls (existing to remain, altered or new)	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

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CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
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C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08		09
System Summary §110.1, §110.2, §140.4, §170.2(c), §141.0(b), §180.2(b)2	AND	Pumps §140.4(k), §170.2(c)4I	AND	Fans/Economizers §140.4(c), §140.4(e), §140.4(p), §170.2(c)	AND	System Controls § 110.2, §120.2, §140.4(f), §140.4(r), §170.2(c)I	AND	Ventilation §120.1, §160.2	AND	Terminal Box Controls §140.4(d), §170.2(c)4B	AND	Distribution §120.3, §140.4(l), §160.2, §160.3, §141.0(b)2D, §180.2(b)2B-1	AND	Cooling Towers §110.2(e)2		Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)		
Yes	AND		AND	Yes	AND	Yes	AND	Yes	AND		AND	Yes	AND			COMPLIES
Mandatory Measures Compliance (See Table Q for Details)																COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01 System Name	02 Quantity	03 System Serving	04 System Status	05 Space Type	06 Utilizing Recovered Heat
E-1,2,3	3	Single zone	Alteration	School or Classroom	☐

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (Includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
				Equipment Sizing per Mechanical Schedule (kBtu/h) §140.4(a&b), §170.2(c)1 & §170.2(c)2						
				Heating Output [2,3]			Cooling Output [2,3]		Load Calculations [3,4]	
Name or Item Tag	Equipment Category per Tables 110.2, §140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available [1] §140.4(a) and §170.2(c)1	Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
E-1,2,3	Unitary Heat Pumps	Air-cooled, split (3 phase)	Yes	45.86	45.86	0	36.33	46.97	45.86	36.33

[1]FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per §140.4(a) and §170.2(c)1. Healthcare facilities are excepted.
[2]It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.
[3] If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.
[4] Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(b) and §170.2(c).

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09	10
				Heating Mode			Cooling Mode		
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Refrigerant Loop Heat Recovery	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
E-1,2,3	<65,000		HSPF2	Federal Minimum	6.7		SEER2	FederalMinimum	13.4

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Mechanical Heat Recovery§140.4(s)

01	02	03	04	05	06	07
Name or Item Tag	Coincident Peak Cooling Load of All High Load Spaces (kBtu/h)	Design Capacity of All Mechanical Cooling Systems[1] (kBtu/h)	Design Capacity of All Service Water Heating Systems[1] (kBtu/h)	Design Capacity for all space heating systems (kBtu/h)	Simultaneous Mechanical Heat Recovery	

[1] FOOTNOTES: Excluding systems expected to operate less than 5 hours per week.
[2] FOOTNOTES: If the design includes capacity for future cooling systems, then assume 20% of future systems serve high load spaces.

G. PUMPS

This section does not apply to this project.

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H. FAN SYSTEMS & AIR ECONOMIZERS

This table is used to demonstrate compliance with prescriptive requirements found in §140.4(c), §140.4(e), §140.4(m), §170.2(c)3, and §170.2(c)4A for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name	E-1,2,3	Quantity	3	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units?	Not Serving Dwelling Units	Fan System Airflow (cfm)	1,590	Site Elevation	100	Economizer	Fixed Temperature
01	02	03	04			05		06	07	08	09			10	11
									Allowance		Design				
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)		Water Gauge (w.g)	Component Allowance (watt/cfm)	Fan Allowance (watt/cfm)[3]	Design Electrical Input Power Method			Motor Nameplate Horsepower	Fan Electrical Input Power (kW)
E-1,2,3	Supply	1	Hydronic/DX cooling coil or heat pump coil			100			0.139	0.324	Manufacturer provided				0.43
			Economizer Return Damper			100			0.046						
			MERV 13-16 Filter upstream of thermal conditioning equipment			100			0.139						
Supply Fan Base Allowance (watt/cfm)			Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)						Fan System Allowance (kW)[3]				Fan System Electrical Input Power (kW)		0.43

[1] FOOTNOTES: Fans serving spaces with design background noise goals below NC35
[2] Low-turndown single-zone VAV fan system must be capable of and configured to reduce airflow to 50 percent of design airflow and use no more than 30 percent of the design wattage at that airflow. No more than 10 percent of the design load served by the equipment shall have fixed loads.
[3] Fan system allowance includes fan system base allowance.
[4] Filter pressure loss can only be counted once per fan system.
[5] Complex Fan System means a fan system that combines a single cabinet fan system with other supply fans, exhaust fans, or both.
[6] Computer room economizers must meet requirements of §140.9(a) and will be documented on the NRCC-PRC-E document..

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H. FAN SYSTEMS & AIR ECONOMIZERS

[1] Indoor fans meeting the requirements of 140.4(o)3D shall turn off when there is no demand for heating or cooling in the space. At 66% air flow the power draw shall be no more than 51% of the fan power at full fan speed and at 33% airflow the power draw shall be no more than 12% of the fan power at full fan speed.

H. EXHAUST AIR HEAT RECOVERY 140.4(q), 170.2(c)4O

01 Fan System Name	02 Qty	03 Hours of Operation per Year	04 Design Supply Airflow Rate	05 Outdoor Airflow	06 % Outdoor Air at Full Design Airflow	07 Exemptions to Exhaust Air Heat Recovery Requirement per §140.4(q) & §170.2(c)4O	08 Exhaust Air Heat Recovery §140.4(q) & §170.2(c)4O	09 Type Of Heat Recovery Rating	10 Required Recovery Ratio	11 Energy Recovery Bypass
E-1,2,3			1,590	400	25	NA: Total airflow exhausted and relieved within 20ft <75% per Exception 6 to 140.4(q)				

Fan Energy Index (FEI)

01 Name or Item Tag	02 FEI Exception	03 FEI
E-1,2,3	Embedded Fan <5HP or <4.1kW	

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I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in §110.2 and §120.2 and prescriptive controls in §140.4(f) and (n), §170.2(c)4D §170.2(c)4L or requirements in §141.0(b)2E §180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09	10	11	12
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats §110.2(b) & (c)[1], §120.2(a) §160.3(a)2A or §160.3(b)3B or §141.0(b)2E & §180.2(b)2	Shut-Off Controls §120.2(e)1 & §160.3(a)2D	Isolation Zone Controls §120.2(g)1 & §160.3(a)2F	Demand Response §110.12 §120.2(b) & §160.3(a)2B	Supply Air Temp. Reset §140.4(f) & §170.2(c)4D	Window Interlocks per §140.4(n) & §170.2(c)4D	Direct Digital Control (DDC) per §120.2	JA18 Guideline 36 Library Version	Heat Pump Defrost per §160.3(b)7
E-1,2,3	Single zone	<= 25,000 ft²	Setback + DR Tstat per §110.12	Auto Timer Switch	NA: Single Zone	DR Tstat per §110.12	NA, Single Zone	NA: Alteration Project	NA: Single Zone	---	NA: No Heat Pump

[1]FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

J. VENTILATION AND INDOOR AIR QUALITY

This 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 nonresidential and hotel/motel and d:t24refmnlnl/160.2, §160.3(a)3D, §170.2(c)4N, 170.2(c)4O for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

01	☐	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☒	Check this box if the project included Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces
	☐	
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per §120.1(c)2.

Nonresidential and Hotel/ Motel Multifamily Common Use Ventilation Systems

04	05		06		07	
System Name	E-1,2,3	System Design OA CFM Airflow[1]	400	System Design Transfer Air CFM	0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 [2]
						Provided

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J. VENTILATION AND INDOOR AIR QUALITY

08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3[1] & §160.2(c)3					Exh. Vent per §120.1(c)4 & §160.2(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3[3] §160.2(c)5D §160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV	Provided per §120.1(d)4
Classroom	Classroom (ages 5-18)	892		22	334.5			Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				334.5	18	Ventilation for this System Complies?		Yes

[1] FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system
[2] Air filtration requirements apply to the following three system types per §120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.
[3] Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.
[4] See Standards Tables 120.1-A and 120.1-B.
[5] For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.
[6]Upon detection of sensor failure, the system shall provide a signal which resets to supply the minimum quantity of outside air to levels required by Section 120.1(c)3.

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

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L. DISTRIBUTION (DUCTWORK and PIPING)

Duct Leakage Testing

The answers to the questions below apply to the following duct systems:	Existing duct system to remain. No modification s.		
		NR/ Common Use: Duct leakage testing shall not exceed 15% per NA7.5.3 required for these systems?	No
		Dwelling Units: Total duct leakage of duct system shall not exceed 15% or duct system to outside shall not exceed 10% per RA3.1.4 required for systems?	---
		Duct leakage testing per CMC Section 603.9.2 required for these systems?	No

11	No	The scope of the project includes only duct systems serving healthcare facilities
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:
15	No	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.
17	Yes	All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A
18	No	All ductwork is an extension of an existing duct system
19	No	Ductwork serving individual dwelling unit
20		< 25 ft of new or replacement space conditioning ducts installed
21	R-4.2	Duct Insulation R-value
22	Yes	Ductwork Existing To Remain
23	Yes	Duct System Connected To Altered Space Conditioning System

M. COOLING TOWERS

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Abbott Elementary School BLDG E	**Report Page:**	**(Page 10 of 12)**
	Date Prepared:	2026-06-29T14:19:52-04:00

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2025-building-energy-efficiency-1

Form/Title
NRCI-MCH-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html and the drafts can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2025-building-energy-efficiency-1

Form/Title	Systems/Spaces To Be Field Verified
NRCA-MCH-02-A - Outdoor Air	E-1,2,3
NRCA-MCH-03-A - HVAC and Heat Pumps - Const Volume Single Zone HVAC	E-1,2,3
NRCA-MCH-05-A - Air Economizer, DOAS, HRV, & ERV Controls	E-1,2,3
NRCA-MCH-06-A Demand Control Ventilation Systems	Classroom
NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance	E-1,2,3

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Abbott Elementary School BLDG E	**Report Page:**	**(Page 11 of 12)**
	Date Prepared:	2026-06-29T14:19:52-04:00

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	Plan sheet or construction document location
03 Mandatory Measure		**04 Plan sheet or construction document location**
Heating Equipment Efficiency per §110.1, Title 20, and federal minimums		M0.3 Mechanical Schedules
Cooling Equipment Efficiency per §110.1, Title 20, and federal minimums		M0.3 Mechanical Schedules
Furnace Standby Loss Control per §110.2(d)		M0.3 Mechanical Schedules
Duct Insulation per §120.4		M-0.1
Heat Pump with Supplemental electric Resistance Heater Controls per §110.2(b)		N/A
The air duct and plenum system is designed per §120.4(a)-(f)		M-0.1 Mechanical General Notes & Legend
Kitchen range hoods shall be rated for sound in accordance with Section 7.2 of ASHRAE 62.2		N/A

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Abbott Elementary School BLDG E	**Report Page:**	**(Page 12 of 12)**
Project Address:	**Date Prepared:**	2026-06-29T14:19:52-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Micah Rummler	Documentation Author Signature: Micah R
Company: Optimum Energy Design	Signature Date: 06/29/2026
Address: 5200 E La Palma Ave.	CEA/HERS/ECC Certification Identification (if applicable):
City/State/Zip: Anaheim, CA 92807	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. 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)
3. 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 requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. 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, plans and specifications submitted to the enforcement agency for approval with this building permit application.
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.

Responsible Person Name: Abby Banerjee	Responsible Person Signature:
Responsible Person Scope:	
Company: Optimum Energy Design	Date Signed: 06/29/2026
Address: 5200 E La Palma Ave.	License: M29253
City/State/Zip: Anaheim, CA 92807	Phone:

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-126114 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 09/15/2026

optimum energy design
Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
Telephone (714) 693-2277

STAMP

REGISTERED PROFESSIONAL ENGINEER — No. M29253 Exp. 6/30/27 — MECHANICAL — STATE OF CALIFORNIA

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL
5260 CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1
2		
3		
4		

JOB NO: 501-26-0032
DATE: 09/04/2026
DRAWN: VZ
CHECK: ZF
ARCHITECT: PETRA
ENGINEER: OED
DSA NUMBER: 03-126114

CONSULTANT

STAMP

SHEET DESCRIPTION:
MECHANICAL TITLE 24 REPORTS BLDG E

SHEET NO:
M-6.3

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.	
Project Name: Abbott Elementary School BLDG F	**Report Page:** (Page 1 of 12)
Project Address:	**Date Prepared:** 2026-06-29T14:32:46-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Lynwood	04	Total Conditioned Floor Area	1840
02	Climate Zone	8	05	Total Unconditioned Floor Area	406
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

● Classroom ● School or Classroom

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, §170.2(b) or §141.0(b)2 and §180.2(b)2 for alterations.

01 Air System(s)	02 Wet System Components	03 Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
☒ Ventilation (including DOAS, ERV, HRV systems)	☐ System Piping	☒ Fan Systems
Mechanical Controls	☐ Cooling Towers	☒ Ductwork (existing to remain, altered or new)
	☐ Chillers	
☒ Mechanical Controls (existing to remain, altered or new)	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Abbott Elementary School BLDG F	**Report Page:** (Page 2 of 12)
	Date Prepared: 2026-06-29T14:32:46-04:00

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08		09
System Summary §110.1, §110.2, §140.4, §170.2(c), §141.0(b), §180.2(b)2	AND	Pumps §140.4(k), §170.2(c)4I	AND	Fans/Economizers §140.4(c), §140.4(e), §140.4(g), §170.2(c)	AND	System Controls § 110.2, §120.2, §140.4(f), §140.4(i), §170.2(c)I	AND	Ventilation §120.1, §160.2	AND	Terminal Box Controls §140.4(d), §170.2(c)4B	AND	Distribution §120.3, §140.4(l), §160.2, §160.3, §141.0(b)2D, §180.2(b)2B-1	AND	Cooling Towers §110.2(e)2	AND	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)		
Yes	AND		AND	Yes	AND	Yes	AND	Yes	AND		AND	Yes	AND			COMPLIES
Mandatory Measures Compliance (See Table Q for Details)																COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01 System Name	02 Quantity	03 System Serving	04 System Status	05 Space Type	06 Utilizing Recovered Heat
D-1,2	2	Single zone	Alteration	School or Classroom	☐

STATE OF CALIFORNIA
Mechanical Systems
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CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Abbott Elementary School BLDG F	**Report Page:** (Page 3 of 12)
	Date Prepared: 2026-06-29T14:32:46-04:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (Includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01 Name or Item Tag	02 Equipment Category per Tables 110.2, §140.4(a)2 and 170.2(c)3aii	03 Equipment Type per Tables 110.2 and Title 20	04 Smallest Size Available [1] §140.4(a) and §170.2(c)1	05 Equipment Sizing per Mechanical Schedule (kBtu/h) §140.4(a&b), §170.2(c)1 & §170.2(c)2						
				Heating Output [2,3]		Cooling Output [2,3]		Load Calculations [3,4]		
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
D-1,2	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	Yes	45.86	45.86	0	36.33	46.97	45.86	36.33

[1] FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per §140.4(a) and §170.2(c)1. Healthcare facilities are excepted.
[2] It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.
[3] If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.
[4] Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(b) and §170.2(c).

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01 Name or Item Tag	02 Size Category (Btu/h)	03 Heating Mode			04	05 Cooling Mode			06	07	08	09	10
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Refrigerant Loop Heat Recovery	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency				
D-1,2	<65,000		HSPF2	Federal Minimum	6.7		SEER2	Federal Minimum	13.4				

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CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Mechanical Heat Recovery§140.4(s)

01 Name or Item Tag	02 Coincident Peak Cooling Load of All High Load Spaces (kBtu/h)	03 Design Capacity of All Mechanical Cooling Systems[1] (kBtu/h)	04 Design Capacity of All Service Water Heating Systems[1] (kBtu/h)	05 Design Capacity for all space heating systems (kBtu/h)	06 Simultaneous Mechanical Heat Recovery	07

[1] FOOTNOTES: Excluding systems expected to operate less than 5 hours per week.
[2] FOOTNOTES: If the design includes capacity for future cooling systems, then assume 20% of future systems serve high load spaces.

G. PUMPS

This section does not apply to this project.

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Abbott Elementary School BLDG F	**Report Page:** (Page 5 of 12)
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H. FAN SYSTEMS & AIR ECONOMIZERS

This table is used to demonstrate compliance with prescriptive requirements found in §140.4(c), §140.4(e), §140.4(m), §170.2(c)3, and §170.2(c)4A for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name	D-1,2	Quantity	2	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units?	Not Serving Dwelling Units	Fan System Airflow (cfm)	1,590	Site Elevation	100	Economizer	Fixed Temperature
01	02	03	04			05		06	07	08	09			10	11
									Allowance		Design				
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)		Water Gauge (w.g)	Component Allowance (watt/cfm)	Fan Allowance (watt/cfm)[3]	Design Electrical Input Power Method			Motor Nameplate Horsepower	Fan Electrical Input Power (kW)
D-1,2	Supply	1	Hydronic/DX cooling coil or heat pump coil			100			0.139	0.324	Manufacturer provided				0.43
			MERV 13-16 Filter upstream of thermal conditioning equipment			100			0.139						
			Economizer Return Damper			100			0.046						
Supply Fan Base Allowance (watt/cfm)			Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)						Fan System Allowance (kW)[3]					Fan System Electrical Input Power (kW)	0.43

[1] FOOTNOTES: Fans serving spaces with design background noise goals below NC35
[2] Low-turndown single-zone VAV fan system must be capable of and configured to reduce airflow to 50 percent of design airflow and use no more than 30 percent of the design wattage at that airflow. No more than 10 percent of the design load served by the equipment shall have fixed loads.
[3] Fan system allowance includes fan system base allowance.
[4] Filter pressure loss can only be counted once per fan system.
[5] Complex Fan System means a fan system that combines a single cabinet fan system with other supply fans, exhaust fans, or both.
[6] Computer room economizers must meet requirements of §140.9(a) and will be documented on the NRCC-PRC-E document..

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Abbott Elementary School BLDG F	**Report Page:** (Page 6 of 12)
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H. FAN SYSTEMS & AIR ECONOMIZERS

[7] Indoor fans meeting the requirements of 140.4(o)3D shall turn off when there is no demand for heating or cooling in the space. At 66% air flow the power draw shall be no more than 51% of the fan power at full fan speed and at 33% airflow the power draw shall be no more than 12% of the fan power at full fan speed.

H. EXHAUST AIR HEAT RECOVERY 140.4(q), 170.2(c)4O

01 Fan System Name	02 Qty	03 Hours of Operation per Year	04 Design Supply Airflow Rate	05 Outdoor Airflow	06 % Outdoor Air at Full Design Airflow	07 Exemptions to Exhaust Air Heat Recovery Requirement per §140.4(q) & §170.2(c)4O	08 Exhaust Air Heat Recovery §140.4(q) & §170.2(c)4O	09 Type Of Heat Recovery Rating	10 Required Recovery Ratio	11 Energy Recovery Bypass
D-1,2			1,590	400	25	NA: Total airflow exhausted and relieved within 20ft <75% per Exception 6 to 140.4(q)				

Fan Energy Index (FEI)

01 Name or Item Tag	02 FEI Exception	03 FEI
D-1,2	Embedded Fan <5HP or <4.1kW	

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Abbott Elementary School BLDG F	**Report Page:** (Page 7 of 12)
	Date Prepared: 2026-06-29T14:32:46-04:00

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in §110.2 and §120.2 and prescriptive controls in §140.4(f) and (n), §170.2(c)4D §170.2(c)4L or requirements in §141.0(b)2E §180.2(b)2 for altered space conditioning systems.

01 System Name	02 System Zoning	03 Conditioned Floor Area Being Served (ft²)	04 Thermostats §110.2(b) & (c)[1], §120.2(a) §160.3(a)2A or §160.3(b)3B or §141.0(b)2E & §180.2(b)2	05 Shut-Off Controls §120.2(e)1 & §160.3(a)2D	06 Isolation Zone Controls §120.2(g)1 & §160.3(a)2F	07 Demand Response §110.12 §120.2(b) & §160.3(a)2B	08 Supply Air Temp. Reset §140.4(f)1 & §170.2(c)4D	09 Window Interlocks per §140.4(n) & §170.2(c)4D	10 Direct Digital Control (DDC) per §120.2	11 JA18 Guideline 36 Library Version	12 Heat Pump Defrost per §160.3(b)7
D-1,2	Single zone	<= 25,000 ft²	Setback + DR Tstat per §110.12	Auto Timer Switch	NA: Single Zone	DR Tstat per §110.12	NA; Single Zone	NA: Alteration Project	NA: Single Zone	---	NA: No Heat Pump

[1] FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

J. VENTILATION AND INDOOR AIR QUALITY

This 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 nonresidential and hotel/motel and d-t24refnohmk/1160.2, §160.3(a)3D, §170.2(c)4N, 170.2(c)4O for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

01	☐	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☒	Check this box if the project included Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per §120.1(c)2.

Nonresidential and Hotel/ Motel Multifamily Common Use Ventilation Systems

04		05		06		07	
System Name	D-1,2	System Design OA CFM Airflow[1]	400	System Design Transfer Air CFM	0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 [2]	
						Provided	

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CALIFORNIA ENERGY COMMISSION

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Project Name: Abbott Elementary School BLDG F	**Report Page:** (Page 8 of 12)
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J. VENTILATION AND INDOOR AIR QUALITY

08 Space Name or Item Tag	09 Mechanical Ventilation Required per §120.1(c)3[1] & §160.2(c)3				10 Exh. Vent per §120.1(c)4 & §160.2(c)4		11 Provided per Design CFM	12 DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3[3] §160.2(c)5D §160.2(c)5D		13
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required min OA CFM	Required min CFM		DCV	Provided per §120.1(d)4	
Classroom	Classroom (ages 5-18)	930		23	348.75			Occ Sensor	NA: Alteration	
17	Total System Required Min OA CFM				348.75	18	Ventilation for this System Complies?		Yes	

[1] FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system
[2] Air filtration requirements apply to the following three system types per §120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.
[3] Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.
[4] See Standards Tables 120.1-A and 120.1-B.
[5] For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.
[6]Upon detection of sensor failure, the system shall provide a signal which resets to supply the minimum quantity of outside air to levels required by Section 120.1(c)3.

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Abbott Elementary School BLDG F	**Report Page:** (Page 9 of 12)
	Date Prepared: 2026-06-29T14:32:46-04:00

L. DISTRIBUTION (DUCTWORK and PIPING)

Duct Leakage Testing

The answers to the questions below apply to the following duct systems:		Existing duct system to remain. No modification s.	**NR/ Common Use:** Duct leakage testing shall not exceed 15% per NA7.5.3 required for these systems?	No
			Dwelling Units: Total duct leakage of duct system shall not exceed 15% or duct system to outside shall not exceed 10% per RA3.1.4 required for systems?	---
			Duct leakage testing per CMC Section 603.9.2 required for these systems?	No

11	No	The scope of the project includes only duct systems serving healthcare facilities
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:
15	No	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.
17	Yes	All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A
18	No	All ductwork is an extension of an existing duct system
19	No	Ductwork serving individual dwelling unit
20		< 25 ft of new or replacement space conditioning ducts installed
21	R-4.2	Duct Insulation R-value
22	Yes	Ductwork Existing To Remain
23	Yes	Duct System Connected To Altered Space Conditioning System

M. COOLING TOWERS

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Abbott Elementary School BLDG F	**Report Page:** (Page 10 of 12)
	Date Prepared: 2026-06-29T14:32:46-04:00

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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Form/Title
NRCI-MCH-E - Must be submitted for all buildings

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Form/Title	Systems/Spaces To Be Field Verified
NRCA-MCH-02-A - Outdoor Air	D-1,2
NRCA-MCH-03-A - HVAC and Heat Pumps - Const Volume Single Zone HVAC	D-1,2
NRCA-MCH-05-A - Air Economizer, DOAS, HRV, & ERV Controls	D-1,2
NRCA-MCH-06-A Demand Control Ventilation Systems	Classroom
NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance	D-1,2

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

STATE OF CALIFORNIA
Mechanical Systems
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CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Abbott Elementary School BLDG F	**Report Page:** (Page 11 of 12)
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Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01 Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block		02 Plan sheet or construction document location
	No	
03 Mandatory Measure		**04 Plan sheet or construction document location**
Heating Equipment Efficiency per §110.1, Title 20, and federal minimums		M0.3 Mechanical Schedules
Cooling Equipment Efficiency per §110.1, Title 20, and federal minimums		M0.3 Mechanical Schedules
Furnace Standby Loss Control per §110.2(d)		M0.3 Mechanical Schedules
Duct Insulation per §120.4		M-0.1
Heat Pump with Supplemental electric Resistance Heater Controls per §110.2(b)		N/A
The air duct and plenum system is designed per §120.4(a)-(f)		M-0.1 Mechanical General Notes & Legend
Kitchen range hoods shall be rated for sound in accordance with Section 7.2 of ASHRAE 62.2		N/A

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Abbott Elementary School BLDG F	**Report Page:** (Page 12 of 12)
Project Address:	**Date Prepared:** 2026-06-29T14:32:46-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Documentation Author Signature:
Micah Rummler	Micah R
Company:	Signature Date:
Optimum Energy Design	06/29/2026
Address: 5200 E La Palma Ave.	CEA/HEA/ECC Certification Identification (if applicable):
City/State/Zip: Anaheim, CA 92807	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. 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)
3. 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 requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. 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, plans and specifications submitted to the enforcement agency for approval with this building permit application.
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.

Responsible Person Name: Abby Banerjee	Responsible Person Signature:
Responsible Person Scope:	
Company: Optimum Energy Design	Date Signed: 06/29/2026
Address: 5200 E La Palma Ave.	License: M29253
City/State/Zip: Anaheim, CA 92807	Phone:

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-126114 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 09/15/2026

optimum energy design
Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
Telephone (714) 693-2277

STAMP

REGISTERED PROFESSIONAL ENGINEER
No. M29253
Exp. 6/30/27
MECHANICAL
STATE OF CALIFORNIA

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL
5260 CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1
2		
3		
4		

JOB NO: 501-26-0032
DATE: 09/04/2026
DRAWN: VZ
CHECK: ZF
ARCHITECT: PETRA
ENGINEER: OED
DSA NUMBER: 03-126114

CONSULTANT

STAMP

SHEET DESCRIPTION:
MECHANICAL
TITLE 24
REPORTS BLDG F

SHEET NO:
M-6.4

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.		
Project Name: Abbott Elementary School BLDG P	**Report Page:**	**(Page 1 of 12)**
Project Address:	**Date Prepared:**	2026-06-29T14:44:00-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Lynwood	04	Total Conditioned Floor Area	2520
02	Climate Zone	8	05	Total Unconditioned Floor Area	275
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

● Classroom ● School or Classroom

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, §170.2(b) or §141.0(b)2 and §180.2(b)2 for alterations.

01 Air System(s)	02 Wet System Components	03 Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
☒ Ventilation (including DOAS, ERV, HRV systems)	☐ System Piping	☒ Fan Systems
Mechanical Controls	☐ Cooling Towers	☒ Ductwork (existing to remain, altered or new)
	☐ Chillers	
☒ Mechanical Controls (existing to remain, altered or new)	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Abbott Elementary School BLDG P	**Report Page:**	**(Page 2 of 12)**
	Date Prepared:	2026-06-29T14:44:00-04:00

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08		09
System Summary §110.1, §110.2, §140.4, §170.2(c), §141.0(b), §180.2(b)2	AND	Pumps §140.4(k), §170.2(c)4I	AND	Fans/Economizers §140.4(c), §140.4(e), §140.4(p), §170.2(c)	AND	System Controls § 110.2, §120.2, §140.4(f), §140.4(r), §170.2(c)I	AND	Ventilation §120.1, §160.2	AND	Terminal Box Controls §140.4(d), §170.2(c)4B	AND	Distribution §120.3, §140.4(l), §160.2, §160.3, §141.0(b)2D, §180.2(b)2B-1	AND	Cooling Towers §110.2(e)2	AND	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)		
Yes	AND		AND	Yes	AND	Yes	AND	Yes	AND		AND	Yes	AND			COMPLIES
Mandatory Measures Compliance (See Table Q for Details)																COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01 System Name	02 Quantity	03 System Serving	04 System Status	05 Space Type	06 Utilizing Recovered Heat
P-1,2	2	Single zone	Alteration	School or Classroom	☐

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Abbott Elementary School BLDG P	**Report Page:**	**(Page 3 of 12)**
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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (Includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, §140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available [1] §140.4(a) and §170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) §140.4(a&b), §170.2(c)1 & §170.2(c)2						
				Heating Output [2,3]			Cooling Output [2,3]		Load Calculations [3,4]	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
P-1,2	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	Yes	56.41	56.41	0	40.94	55.12	56.41	40.94

[1] FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per §140.4(a) and §170.2(c)1. Healthcare facilities are excepted.
[2] It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.
[3] If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.
[4] Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(b) and §170.2(c).

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode			
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Refrigerant Loop Heat Recovery	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
P-1,2	<65,000		HSPF2	Federal Minimum	6.7		SEER2	FederalMinimum	13.4

STATE OF CALIFORNIA
Mechanical Systems
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CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Abbott Elementary School BLDG P	**Report Page:**	**(Page 4 of 12)**
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G. PUMPS

This section does not apply to this project.

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Abbott Elementary School BLDG P	**Report Page:**	**(Page 5 of 12)**
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H. FAN SYSTEMS & AIR ECONOMIZERS

This table is used to demonstrate compliance with prescriptive requirements found in §140.4(c), §140.4(e), §140.4(m), §170.2(c)3, and §170.2(c)4A for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name	P-1,2	Quantity	2	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units?	Not Serving Dwelling Units	Fan System Airflow (cfm)	1,760	Site Elevation	100	Economizer	Fixed Temperature
01	02	03	04			05		06	07	08	09			10	11
									Allowance		Design				
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)		Water Gauge (w.g)	Component Allowance (watt/cfm)	Fan Allowance (watt/cfm) [1]	Design Electrical Input Power Method		Motor Nameplate Horsepower		Fan Electrical Input Power (kW)
P-1,2	Supply	1	Hydronic/DX cooling coil or heat pump coil			100			0.139	0.324	Manufacturer provided				0.51
			MERV 13-16 Filter upstream of thermal conditioning equipment			100			0.139						
			Economizer Return Damper			100			0.046						
Supply Fan Base Allowance (watt/cfm)			Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)						Fan System Allowance (kW) [3]				Fan System Electrical Input Power (kW)		0.51

[1] FOOTNOTES: Fans serving spaces with design background noise goals below NC35
[2] Low-turndown single-zone VAV fan system must be capable of and configured to reduce airflow to 50 percent of design airflow and use no more than 30 percent of the design wattage at that airflow. No more than 10 percent of the design load served by the equipment shall have fixed loads.
[3] Fan system allowance includes fan system base allowance.
[4] Filter pressure loss can only be counted once per fan system.
[5] Complex Fan System means a fan system that combines a single cabinet fan system with other supply fans, exhaust fans, or both.
[6] Computer room economizers must meet requirements of §140.9(a) and will be documented on the NRCC-PRC-E document..

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Abbott Elementary School BLDG P	**Report Page:**	**(Page 6 of 12)**
	Date Prepared:	2026-06-29T14:44:00-04:00

H. FAN SYSTEMS & AIR ECONOMIZERS

[1] Indoor fans meeting the requirements of 140.4(a)3D shall turn off when there is no demand for heating or cooling in the space. At 66% air flow the power draw shall be no more than 51% of the fan power at full fan speed and at 33% airflow the power draw shall be no more than 12% of the fan power at full fan speed.

H. EXHAUST AIR HEAT RECOVERY 140.4(q), 170.2(c)4O

01 Fan System Name	02 Qty	03 Hours of Operation per Year	04 Design Supply Airflow Rate	05 Outdoor Airflow	06 % Outdoor Air at Full Design Airflow	07 Exemptions to Exhaust Air Heat Recovery Requirement per §140.4(q) & §170.2(c)4O	08 Exhaust Air Heat Recovery §140.4(q) & §170.2(c)4O	09 Type Of Heat Recovery Rating	10 Required Recovery Ratio	11 Energy Recovery Bypass
P-1,2			1,760	480	27	NA: Total airflow exhausted and relieved within 20ft <75% per Exception 6 to 140.4(q)				

Fan Energy Index (FEI)

01 Name or Item Tag	02 FEI Exception	03 FEI
P-1,2	Embedded Fan <5HP or <4.1kW	

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Abbott Elementary School BLDG P	**Report Page:**	**(Page 7 of 12)**
	Date Prepared:	2026-06-29T14:44:00-04:00

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in §110.2 and §120.2 and prescriptive controls in §140.4(f) and (n), §170.2(c)4D §170.2(c)4L or requirements in §141.0(b)2E §180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09	10	11	12
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats §110.2(b) & (c)[1], §120.2(a) §160.3(a)2A or §160.3(b)3B or §141.0(b)2E & §180.2(b)2	Shut-Off Controls §120.2(e)1 & §160.3(a)2D	Isolation Zone Controls §120.2(g)1 & §160.3(a)2F	Demand Response §110.12 §120.2(b) & §160.3(a)2B	Supply Air Temp. Reset §140.4(f) & §170.2(c)4D	Window Interlocks per §140.4(n) & §170.2(c)4D	Direct Digital Control (DDC) per §120.2	JA18 Guideline 36 Library Version	Heat Pump Defrost per §160.3(b)7
P-1,2	Single zone	<= 25,000 ft²	Setback + DR Tstat per §110.12	Auto Timer Switch	NA: Single Zone	DR Tstat per §110.12	NA; Single Zone	NA: Alteration Project	NA: Single Zone	---	NA: No Heat Pump

[1] FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

J. VENTILATION AND INDOOR AIR QUALITY

This 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 nonresidential and hotel/motel and d-t24refnohrly1160.2, §160.3(a)3D, §170.2(c)4N, 170.2(c)4O for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

01	☐	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☒	Check this box if the project included Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per §120.1(c)2.

Nonresidential and Hotel/ Motel Multifamily Common Use Ventilation Systems

04		05		06		07	
System Name	P-1,2	System Design OA CFM Airflow[1]	480	System Design Transfer Air CFM	0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 [2]	
						Provided	

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Abbott Elementary School BLDG P	**Report Page:**	**(Page 8 of 12)**
	Date Prepared:	2026-06-29T14:44:00-04:00

J. VENTILATION AND INDOOR AIR QUALITY

08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3[1] & §160.2(c)3					Exh. Vent per §120.1(c)4 & §160.2(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3[3] §160.2(c)5D §160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Provided per Design CFM		DCV	Provided per §120.1(d)4
Kindergarten Classroom	Classroom (ages 5-18)	1270		31	476.25			Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				476.25	18	Ventilation for this System Complies?		Yes

[1] FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system
[2] Air filtration requirements apply to the following three system types per §120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.
[3] Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.
[4] See Standards Tables 120.1-A and 120.1-B.
[5] For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.
[6]Upon detection of sensor failure, the system shall provide a signal which resets to supply the minimum quantity of outside air to levels required by Section 120.1(c)3.

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Abbott Elementary School BLDG P	**Report Page:**	**(Page 9 of 12)**
	Date Prepared:	2026-06-29T14:44:00-04:00

L. DISTRIBUTION (DUCTWORK and PIPING)

Duct Leakage Testing

The answers to the questions below apply to the following duct systems:		Existing duct system to remain. No modification s.	**NR/ Common Use:** Duct leakage testing shall not exceed 15% per NA7.5.3 required for these systems?	No
			Dwelling Units: Total duct leakage of duct system shall not exceed 15% or duct system to outside shall not exceed 10% per RA3.1.4 required for systems?	---
			Duct leakage testing per CMC Section 603.9.2 required for these systems?	No

11	No	The scope of the project includes only duct systems serving healthcare facilities
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:
15	No	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.
17	Yes	All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A
18	No	All ductwork is an extension of an existing duct system
19	No	Ductwork serving individual dwelling unit
20		< 25 ft of new or replacement space conditioning ducts installed
21	R-4.2	Duct Insulation R-value
22	Yes	Ductwork Existing To Remain
23	Yes	Duct System Connected To Altered Space Conditioning System

M. COOLING TOWERS

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Abbott Elementary School BLDG P	**Report Page:**	**(Page 10 of 12)**
	Date Prepared:	2026-06-29T14:44:00-04:00

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2025-building-energy-efficiency-1

Form/Title
NRCI-MCH-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html and the drafts can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2025-building-energy-efficiency-1

Form/Title	Systems/Spaces To Be Field Verified
NRCA-MCH-02-A - Outdoor Air	P-1,2
NRCA-MCH-03-A - HVAC and Heat Pumps - Const Volume Single Zone HVAC	P-1,2
NRCA-MCH-05-A - Air Economizer, DOAS, HRV, & ERV Controls	P-1,2
NRCA-MCH-06-A Demand Control Ventilation Systems	Kindergarten Classroom
NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance	P-1,2

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Abbott Elementary School BLDG P	**Report Page:**	**(Page 11 of 12)**
	Date Prepared:	2026-06-29T14:44:00-04:00

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	Plan sheet or construction document location
03 **Mandatory Measure**		04 **Plan sheet or construction document location**
Heating Equipment Efficiency per §110.1, Title 20, and federal minimums		M0.3 Mechanical Schedules
Cooling Equipment Efficiency per §110.1, Title 20, and federal minimums		M0.3 Mechanical Schedules
Furnace Standby Loss Control per §110.2(d)		M0.3 Mechanical Schedules
Duct Insulation per §120.4		M-0.1
Heat Pump with Supplemental electric Resistance Heater Controls per §110.2(b)		N/A
The air duct and plenum system is designed per §120.4(a)-(f)		M-0.1 Mechanical General Notes & Legend
Kitchen range hoods shall be rated for sound in accordance with Section 7.2 of ASHRAE 62.2		N/A

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Abbott Elementary School BLDG P	**Report Page:**	**(Page 12 of 12)**
Project Address:	**Date Prepared:**	2026-06-29T14:44:00-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Micah Rummler	Documentation Author Signature: Micah R
Company: Optimum Energy Design	Signature Date: 06/29/2026
Address: 5200 E La Palma Ave.	CEA/HERS/ECC Certification Identification (if applicable):
City/State/Zip: Anaheim, CA 92807	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. 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)
3. 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 requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. 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, plans and specifications submitted to the enforcement agency for approval with this building permit application.
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 building provides to the building owner at occupancy.

Responsible Person Name: Abby Banerjee	Responsible Person Signature:
Responsible Person Scope:	
Company: Optimum Energy Design	Date Signed: 06/29/2026
Address: 5200 E La Palma Ave.	License: M29253
City/State/Zip: Anaheim, CA 92807	Phone:

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-126114 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 09/15/2026

optimum energy design
Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
Telephone (714) 693-2277

STAMP

REGISTERED PROFESSIONAL ENGINEER — MICHAEL C. ZAFFETTI — No. M29253 Exp. 6/30/27 — MECHANICAL — STATE OF CALIFORNIA

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL
5260 CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1
2		
3		
4		

JOB NO: 501-26-0032
DATE: 09/04/2026
DRAWN: VZ
CHECK: ZF
ARCHITECT: PETRA
ENGINEER: OED
DSA NUMBER: 03-126114

CONSULTANT

STAMP

SHEET DESCRIPTION:
MECHANICAL
TITLE 24
REPORTS BLDG P

SHEET NO:
M-6.5

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Abbott School Elementary School BLDG L	Report Page:	(Page 1 of 16)
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This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.

A. GENERAL INFORMATION

01	Project Location (city)	Lynwood	04	Total Conditioned Floor Area	13296
02	Climate Zone	8	05	Total Unconditioned Floor Area	2955
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	2

● Classroom ● Office

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, §170.2(b) or §141.0(b)2 and §180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
☒ Ventilation (including DOAS, ERV, HRV systems)	☐ System Piping	☒ Fan Systems
Mechanical Controls	☐ Cooling Towers	☒ Ductwork (existing to remain, altered or new)
	☐ Chillers	
☒ Mechanical Controls (existing to remain, altered or new)	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

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C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary §110.1, §110.2, §140.4, §170.2(c), §141.0(b), §180.2(b2)	AND	Pumps §140.4(k), §170.2(c)4I	AND	Fans/Fcono mizers §140.4(c), §140.4(e), §140.4(g), §170.2(c)	AND	System Controls § 110.2, §120.2, §140.4(f), §140.4(r), §170.2(c)	AND	Ventilation §120.1, §160.2	AND	Terminal Box Controls §140.4(d), §170.2(c)4B	AND	Distribution §120.3, §140.4(l), §160.2, §160.3, §141.0(b)2D, §180.2(b)2B i.	AND	Cooling Towers §110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND	Yes	AND	Yes	AND	Yes	AND		AND	Yes	AND		COMPLIES
Mandatory Measures Compliance (See Table Q for Details)															COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
AC-1A,1B,2A,2B,2C,3A,3B,3C,3D	9	Single zone	Alteration	School or Classroom	☐
AC-4A,4B,4C	3	Single zone	Alteration	School or Classroom	☐

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
AC-1A,1B,2A,2B,2C,3A,3B,3C,3D	1	Single zone	Alteration	School or Classroom	☐

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, §140.4(a) and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available [1] §140.4(a4b), §170.2(c)1 & §170.2(c)2	Equipment Sizing per Mechanical Schedule (kBtu/h) §140.4(a4b), §170.2(c)1 & §170.2(c)2						
				Heating Output [2,3]		Cooling Output [2,3]		Load Calculations [3,4]		
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
AC-1A,1B,2A,2B,2C,3A,3B,3C,3D	Furnace + AC (split or packaged)	AC, air cooled, single pkg + warm-air central furnace, gas-fired	Yes	60	60	0	34.31	48.41	60	34.31
AC-4A,4B,4C	Furnace + AC (split or packaged)	AC, air cooled, single pkg + warm-air central furnace, gas-fired	Yes	60	60	0	44.73	59.31	60	44.73
AC-5A	Furnace + AC (split or packaged)	AC, air cooled, single pkg + warm-air central furnace, gas-fired	Yes	67	67	0	52	71.15	67	52

[1] *FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per §140.4(a) and §170.2(c)1. Healthcare facilities are excepted.*
[2] *It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*
[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*
[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(b) and §170.2(c).*

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode			
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Refrigerant Loop Heat Recovery	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
AC-1A,1B,2A,2B,2C,3A,3B,3C,3D	<65kBtuh cooling/ <225kBtuh heating		AFUE	0.8	0.81		EER	FederalMinimum	11
							SEER	FederalMinimum	14
AC-4A,4B,4C	<65kBtuh cooling/ <225kBtuh heating		AFUE	0.8	0.81		EER	FederalMinimum	11
							SEER	FederalMinimum	14
AC-5A	>=65kBtuh cooling/ <225kBtuh heating		AFUE	0.8	0.81		EER	11	11
							IEER	0	15

Mechanical Heat Recovery§140.4(s)

01	02	03	04	05	06	07
Name or Item Tag	Coincident Peak Cooling Load of All High Load Spaces (kBtu/h)	Design Capacity of All Mechanical Cooling Systems[1] (kBtu/h)	Design Capacity of All Service Water Heating Systems[1] (kBtu/h)	Design Capacity for all space heating systems (kBtu/h)	Simultaneous Mechanical Heat Recovery	

[1] *FOOTNOTES: Excluding systems expected to operate less than 5 hours per week.*
[2] *FOOTNOTES: If the design includes capacity for future cooling systems, then assume 20% of future systems serve high load spaces.*

G. PUMPS

This section does not apply to this project.

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H. FAN SYSTEMS & AIR ECONOMIZERS

This table is used to demonstrate compliance with prescriptive requirements found in §140.4(c), §140.4(e), §140.4(m), §170.2(c)3, and §170.2(c)4A for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name	AC-1A,1B,2A,2B,2C,3A,3B,3C,3D	Quantity	9	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units?	Not Serving Dwelling Units	Fan System Airflow (cfm)	1,600	2,100	Site Elevation	100	Economizer	Fixed Temperature
01	02	03	04			05		06	07	08	09				10	11
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)		Water Gauge (w.g)	Allowance		Design					
									Component Allowance (watt/cfm)	Fan Allowance (watt/cfm)[3]	Design Electrical Input Power Method			Motor Nameplate Horsepower	Fan Electrical Input Power (kW)	
AC-1A,1B,2A,2B,2C,3A,3B,3C,3D	Supply	1	Hydronic/DX cooling coil or heat pump coil			100			0.139	0.382	Manufacturer provided				0.76	
			Gas heat			100			0.058							
			Economizer Return Damper			100			0.046							
			MERV 13-16 Filter upstream of thermal conditioning equipment			100			0.139							
Supply Fan Base Allowance (watt/cfm)			Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)						Fan System Allowance (kW)[3]					Fan System Electrical Input Power (kW)	0.76	

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H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	AC-4A,4B,4C	Quantity	3	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units?	Not Serving Dwelling Units	Fan System Airflow (cfm)	2,000	Site Elevation	100	Economizer	Fixed Temperature
01	02	03	04			05		06	07	08	09			10	11
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)		Water Gauge (w.g)	Allowance		Design				
									Component Allowance (watt/cfm)	Fan Allowance (watt/cfm)[3]	Design Electrical Input Power Method			Motor Nameplate Horsepower	Fan Electrical Input Power (kW)
AC-4A,4B,4C	Supply	1	Hydronic/DX cooling coil or heat pump coil			100			0.139	0.382	Manufacturer provided				0.96
			Economizer Return Damper			100			0.046						
			MERV 13-16 Filter upstream of thermal conditioning equipment			100			0.139						
			Gas heat			100			0.058						
Supply Fan Base Allowance (watt/cfm)			Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)						Fan System Allowance (kW)[3]					Fan System Electrical Input Power (kW)	0.96

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H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	AC-5A	Quantity	1	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units?	Not Serving Dwelling Units	Fan System Airflow (cfm)	2,100	Site Elevation	100	Economizer	Fixed Temperature
01	02	03		04			05	06	07	08		09		10	11
Fan Name or Item Tag	Fan Type	Qty	Component				Airflow through Component (%)	Water Gauge (w.g)	Allowance		Design				
									Component Allowance (watt/cfm)	Fan Allowance (watt/cfm)[3]	Design Electrical Input Power Method			Motor Nameplate Horsepower	Fan Electrical Input Power (kW)
AC-5A	Supply	1	Hydronic/DX cooling coil or heat pump coil				100		0.139	0.382	Manufacturer provided				0.98
			Gas heat				100		0.058						
			MERV 13-16 Filter upstream of thermal conditioning equipment				100		0.139						
			Economizer Return Damper				100		0.046						
Supply Fan Base Allowance (watt/cfm)			Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)						Fan System Allowance (kW)[3]					Fan System Electrical Input Power (kW)	0.98

[1] *FOOTNOTES: Fans serving spaces with design background noise goals below NC35*
[2] *Low-turndown single-zone VAV fan system must be capable of and configured to reduce airflow to 50 percent of design airflow and use no more than 30 percent of the design wattage at that airflow. No more than 10 percent of the design load served by the equipment shall have fixed loads.*
[3] *Fan system allowance includes fan system base allowance.*
[4] *Filter pressure loss can only be counted one per fan system.*
[5] *Complex Fan System means a fan system that combines a single cabinet fan system with other supply fans, exhaust fans, or both.*
[6] *Computer room economizers must meet requirements of §140.9(a) and will be documented on the NRCC-PRC-E document..*

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H. FAN SYSTEMS & AIR ECONOMIZERS

[2] Indoor fans meeting the requirements of 140.4(a)3D shall turn off when there is no demand for heating or cooling in the space. At 66% air flow the power draw shall be no more than 51% of the fan power at full fan speed and at 33% airflow the power draw shall be no more than 12% of the fan power at full fan speed.

H. EXHAUST AIR HEAT RECOVERY 140.4(q), 170.2(c)4O

01	02	03	04	05	06	07	08	09	10	11
Fan System Name	Qty	Hours of Operation per Year	Design Supply Airflow Rate	Outdoor Airflow	% Outdoor Air at Full Design Airflow	Exemptions to Exhaust Air Heat Recovery Requirement per §140.4(q) & §170.2(c)4O	Exhaust Air Heat Recovery Rating	Type Of Heat Recovery	Required Recovery Ratio	Energy Recovery Bypass
AC-1A,1B,2A,2B,2C,3A,3B,3C,3D			1,600	420	26	NA: Total airflow exhausted and relieved within 20ft <75% per Exception 6 to 140.4(q)				
AC-4A,4B,4C			2,000	420	21	NA: Total airflow exhausted and relieved within 20ft <75% per Exception 6 to 140.4(q)				
AC-5A			2,100	475	23	NA: Total airflow exhausted and relieved within 20ft <75% per Exception 6 to 140.4(q)				

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Fan Energy Index (FEI)

01	02	03
Name or Item Tag	FEI Exception	FEI
AC-1A,1B,2A,2B,2C,3A,3B,3C,3D	Embedded Fan <SHP or <4.1kW	
AC-4A,4B,4C	Embedded Fan <SHP or <4.1kW	
AC-5A	Embedded Fan <SHP or <4.1kW	

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in §110.2 and §120.2 and prescriptive controls in §140.4(f) and (n), §170.2(c)4D §170.2(c)4L or requirements in §141.0(b)2E §180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09	10	11	12
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats §110.2(b) & (c)[1], §120.2(a) §160.3(a)2A or §160.3(b)B or §141.0(b)2E & §180.2(b)2	Shut-Off Controls §120.2(j) & §160.3(a)2D	Isolation Zone Controls §120.2(g) & §160.3(a)2F	Demand Response §110.12 §120.2(b) & §160.3(a)2B	Supply Air Temp. Reset §140.4(f) & §170.2(c)4D	Window Interlocks per §140.4(n) & §170.2(c)4D	Direct Digital Control (DDC) per §120.2	IA18 Guideline 36 Library Version	Heat Pump Defrost per §160.3(b)7
Packaged Units (AC)	Single zone	<= 25,000 ft²	Setback + DR Tstat per §110.12	Auto Timer Switch	NA: Single Zone	DR Tstat per §110.12	NA: Single Zone	NA: Alteration Project	NA: Single Zone	---	NA: No Heat Pump

[1] *FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*

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J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in §120.1 § 120.2(c)3B § 140.4(p) and § 140.4(q) for all nonresidential and hotel/motel and dU/dtRefinishi/§160.2, §160.3(b)3D, §170.2(c)4N, 170.2(q)4O for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

01	☐	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☒	Check this box if the project included Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces
	☐	
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per §120.1(c)2.

Nonresidential and Hotel/ Motel Multifamily Common Use Ventilation Systems

04		05			06		07	
System Name	AC-1A,1B,2A,2B,2C,3A,3B,3C,3D	System Design OA CFM Airflow[4]		420	System Design Transfer Air CFM	0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 [7]	
							Provided	
08	09	10	11	12	13	14	15	16
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3[3] & §160.2(c)3					Exh. Vent per §120.1(c)4 & §160.2(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3[8] §160.2(c)5D §160.2(c)5E §160.2(c)5D
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Provided per Design CFM		
Classroom	Classroom (ages 5-18)	787		19	295.12		DCV	Provided per §120.1(d)4
							Occ Sensor	NA: Alteration
Computer Lab	Computer Lab	320		8	120		DCV	Provided per §120.1(d)4
							Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				415.12	18	Ventilation for this System Complies?	Yes

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J. VENTILATION AND INDOOR AIR QUALITY

04		05			06		07	
System Name	AC-4A,4B,4C	System Design OA CFM Airflow[4]		420	System Design Transfer Air CFM	0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 [7]	
							Provided	
08	09	10	11	12	13	14	15	16
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3[3] & §160.2(c)3					Exh. Vent per §120.1(c)4 & §160.2(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3[8] §160.2(c)5D §160.2(c)5E §160.2(c)5D
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Provided per Design CFM		
Classroom	Classroom (ages 5-18)	788		19	295.5		DCV	Provided per §120.1(d)4
							Occ Sensor	NA: Alteration
Computer Lab	Computer Lab	320		8	120		DCV	Provided per §120.1(d)4
							Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				415.5	18	Ventilation for this System Complies?	Yes
04		05			06		07	
System Name	AC-5A	System Design OA CFM Airflow[4]		475	System Design Transfer Air CFM	0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 [7]	
							Provided	
08	09	10	11	12	13	14	15	16
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3[3] & §160.2(c)3					Exh. Vent per §120.1(c)4 & §160.2(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3[8] §160.2(c)5D §160.2(c)5E §160.2(c)5D
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Provided per Design CFM		

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J. VENTILATION AND INDOOR AIR QUALITY

Science Lab	Classroom (ages 5-18)	1264		31	474			DCV	Provided per §120.1(d)4	
								Occ Sensor	NA: Alteration	
17	Total System Required Min OA CFM				474	18	Ventilation for this System Complies?		Yes	

[1] *FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system*
[2] *Air filtration requirements apply to the following three system types per §120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.*
[3] *Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.*
[4] *See Standards Tables 120.1-A and 120.1-B.*
[5] *For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.*
[6] *Upon detection of sensor failure, the system shall provide a signal which resets to supply the minimum quantity of outside air to levels required by Section 120.1(c)3.*

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This 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.

01	☐	Insulation 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:	Existing duct system to	NR/ Common Use: Duct leakage testing shall not exceed 15% per NA7.5.3 required for these systems?	No

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L. DISTRIBUTION (DUCTWORK and PIPING)

		remain. No modification s.	**Dwelling Units:** Total duct leakage of duct system shall not exceed 15% or duct system to outside shall not exceed 10% per RA3.1.4 required for systems?	---
			Duct leakage testing per CMC Section 603.9.2 required for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities		
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.		
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.		
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:		
15	No	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.		
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.		
17	Yes	All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A		
18	No	All ductwork is an extension of an existing duct system		
19	No	Ductwork serving individual dwelling unit		
20		< 25 ft of new or replacement space conditioning ducts installed		
21	R-4.2	Duct Insulation R-value		
22	Yes	Ductwork Existing To Remain		
23	Yes	Duct System Connected To Altered Space Conditioning System		

M. COOLING TOWERS

This section does not apply to this project.

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Abbott School Elementary School BLDG L	Report Page:	(Page 14 of 16)
	Date Prepared:	2026-06-29T13:33:50-04:00

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

*Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-

GENERAL NOTES

1. THIS CONTRACTOR SHALL SUPPLY POWER TO AND MAKE CONNECTION TO ALL MOTORS AND EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AS SHOWN ON THE MECHANICAL AND PLUMBING DRAWINGS, INCLUDING ALL FRACTIONAL HORSEPOWER MOTORS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE MECHANICAL AND PLUMBING DRAWINGS FOR DUCTS, LINES AND EQUIPMENT.

2. ALL COMMUNICATIONS WORK SHALL BE COORDINATED WITH THE COMMUNICATION SYSTEMS EQUIPMENT MANUFACTURER AND THE SCHOOL DISTRICT MAINTENANCE DEPARTMENT PRIOR TO ROUGH -IN AND INSTALLATION OF ANY AND ALL COMMUNICATION SYSTEM DEVICES AND RELATED CONDUIT AND WIRE.

3. THE CONTRACTOR SHALL SECURE AND PAY FOR PERMITS AND FEES NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK, INCLUDING ALL CHARGES BY THE LOCAL GOVERNMENT AGENCIES AND THE UTILITY COMPANIES.

4. UNLESS OTHERWISE NOTED, MOUNTING HEIGHTS INDICATED ON ELECTRICAL OUTLETS ARE FROM FINISHED FLOOR TO CENTER OF OUTLETS.

5. NO CONDUIT SHALL BE RUN HORIZONTALLY IN CONCRETE FLOOR SLABS.

6. ALL FINAL CONNECTIONS TO CONTRACTOR-FURNISHED EQUIPMENT SHALL BE MADE BY THIS CONTRACTOR.

7. MEP COMPONENT ANCHORAGE NOTE

   ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2025 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-22 CHAPTERS 13, 26 AND 30:

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

   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 7-22 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8 AND 2025 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 HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

   MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEM (E):

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

   MP☐MD☐PP☐E☐ - OPTION 2: SHALL COMPLY WITH HCAI PRE-APPROVAL (OPM #) #_____

8. SHUT DOWN OF EXISTING ELECTRICAL SYSTEMS SERVING THE REST OF THE SCHOOL WILL NOT BE ALLOWED UNLESS SCHEDULED WITH THE C.M. AND THE DISTRICT.

9. THIS CONTRACTOR SHALL COORDINATE ALL LINE AND LOW VOLTAGE COMPONENTS AND WIRING TYPES TO, MATCH EXISTING SYSTEMS, WITH THE SCHOOL DISTRICT PRIOR TO BID AND INCLUDE ALL COSTS FOR A COMPLETE OPERABLE SYSTEM EXPANSION.

10. ALL EXPOSED CONDUIT SHALL BE PAINTED TO MATCH EXISTING FINISH, COLOR TO BE SELECTED BY THE OWNER. SEE SPECIFICATION 26 00 00 SECTION 2.1 I(1).

11. THE NUMERAL(S) SHOWN AT TOP LIGHT FIXTURE IDENTIFICATION SYMBOL WHICH INDICATES NUMBER OF LIGHT FIXTURES REQUIRED SHALL NOT BE USED BY THE CONTRACTOR FOR HIS QUANTITY TAKE-OFF AT BIDDING OR FOR DETERMINATION OF HOW MANY FIXTURES WILL BE INSTALLED. THE CONTRACTOR SHALL INSTALL A LIGHT FIXTURE WHEREVER A FIXTURE OUTLET IS SHOWN ON DRAWINGS.

12. IDENTIFICATION NAME PLATES FOR PANELS AND SWITCHBOARDS/DISTRIBUTION PANEL FEEDER CIRCUIT BREAKERS SHALL MATCH THE NOMENCLATURE PROVIDED BY THE OWNER AT THE END OF THE CONTRACT.

13. ALL EXTERIOR MOUNTED EQUIPMENT SHALL BE WEATHERPROOF AND PROVIDED IN A WEATHERPROOF ENCLOSURE.

14. INSTALL RACEWAY SYSTEMS AS FOLLOWS:

   A. RIGID GALVANIZED STEEL IN ALL OUTDOOR LOCATIONS AND IN INDOOR LOCATIONS WHERE SUBJECT TO PHYSICAL DAMAGE.

   B. I.M.C. OR E.M.T. IN ALL INDOOR AREAS.

   C. FLEXIBLE METAL CONDUIT FOR FINAL CONNECTIONS TO LIGHT FIXTURES, MOTORS, VIBRATING ELECTRICAL EQUIPMENT AND HORIZONTAL RUNS IN WOOD STUD WALLS.

   D. PVC CONDUIT FOR UNDERGROUND RUNS. USE 20 MIL PVC TAPED RIGID STEEL RISER ELBOWS AND RISERS FOR CONDUIT STUB-UPS.

   E. USE COMPRESSION TYPE FITTINGS FOR ALL METALLIC CONDUIT.

   F. 1" CONDUIT MINIMUM FOR UNDERGROUND INSTALLATIONS.

15. ALL NEW WIRING SHALL BE COPPER.

16. PROVIDE THE OWNER AND THIS ENGINEER WITH ONE SET OF ELECTRICAL "AS-BUILTS" AT THE COMPLETION OF JOB.

17. CONDUIT ROUTING INDICATED ON THESE PLANS IS DIAGRAMMATIC. ACTUAL ROUTING OF CONDUITS SHALL BE COORDINATED IN THE FIELD TO AVOID INTERFERENCE WITH OTHER UTILITIES AND TRADES. THE CONTRACTOR SHALL INSTALL ALL CONDUIT, JUNCTION/PULL BOXES, ETC., AS REQUIRED FOR A COMPLETE SYSTEM IN FULL COMPLIANCE WITH ALL APPLICABLE CODES.

18. ALL OUTLET LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION.

19. ALL WORK SHOWN ON THESE DRAWINGS SHALL BE NEW UNLESS OTHERWISE NOTED.

20. ELECTRICAL CONTRACTOR SHALL PERFORM ALL WORK IN STRICT ACCORDANCE WITH GOVERNING CODES.

21. ALL EQUIPMENT SHALL BE NEW AND BEAR A "UL" LABEL - U.O.N..

22. COMPLETE ELECTRICAL INSTALLATION SHALL BE GUARANTEED IN WRITING FOR A PERIOD OF (1) YEAR - U.O.N..

23. ELECTRICAL CONTRACTOR SHALL VISIT SITE PRIOR TO BID DATE, TO VERIFY ALL EXISTING CONDITIONS TO BE ENCOUNTERED IN THE INSTALLATION OF ALL NEW EQUIPMENT, FIXTURES DEVICES, FEEDERS, ETC., EXACT INSTALLATION METHOD AND REQUIREMENTS SHALL BE VERIFIED AND DETERMINED PRIOR TO BID DATE. CONTRACTORS SHALL IMMEDIATELY NOTIFY THIS ENGINEER OF ANY REQUIRED MODIFICATIONS WHICH ARE NOT SHOWN ON THESE DRAWINGS. SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED.

24. ALL EQUIPMENT ELECTRICAL CHARACTERISTICS, LOCATIONS, AND CONNECTION REQUIREMENTS SHALL BE VERIFIED PRIOR TO ANY ROUGH-IN WORK.

25. ALL POWER AND LIGHTING BRANCH CIRCUITS SHALL BE INSTALLED WITH A #12 GREEN GROUND WIRE U.O.N. THE COMPLETE ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH ARTICAL 250 OF THE CALIFORNIA ELECTRICAL CODE (CEC).

26. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO DO ALL CORING, CUTTING, PATCHING AND REFINISHING OF WALLS AND SURFACES WHEREVER IT IS NECESSARY FOR HIM TO PENETRATE FOR HIS WORK. ALL OPENINGS MADE SHALL BE SEALED TO MEET THE RATED INTEGRITY OF THE PARTICULAR WALL, FLOOR OR CEILING.

27. THE CONTRACTOR SHALL STRATEGICALLY LOCATE JUNCTION BOXES AND PULL BOXES, ETC., IN ACCESSIBLE CEILING SPACES. PROVIDE ACCESS PANELS WHERE JUNCTION/PULL BOXES ARE LOCATED IN INACCESSIBLE CEILING SPACES. COORDINATE LOCATION OF REQUIRED ACCESS PANELS PRIOR TO ROUGH-IN.

28. ALL WIRING AND ELECTRICAL EQUIPMENT INSTALLED FOR MECHANICAL AND PLUMBING EQUIPMENT SHALL BE IN ACCORDANCE WITH THESE DRAWINGS AND THE WIRING DIAGRAMS OF THE MECHANICAL AND PLUMBING DRAWINGS.

29. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED, NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DISTRICT STRUCTURAL ENGINEER FROM THE DIVISION OF THE STATE ARCHITECT.

DEMOLITION NOTES

1. ALL ELECTRICAL EQUIPMENT, OUTLETS, DEVICES, ETC., THAT ARE MARKED FOR DELETION SHALL BE REMOVED COMPLETELY, INCLUDING CONDUIT AND WIRES BACK TO THE LAST REMAINING FIXTURE, OUTLET, DEVICE, SERVING PANEL, ETC.

2. WHERE EXISTING OUTLET/DEVICES TO REMAIN ARE FED BY OUTLETS BEING REMOVED BY WORK UNDER THIS CONTRACT, THE CONTRACTOR SHALL ROUTE NEW CONDUIT, WIRE, ETC., AS REQUIRED TO MAINTAIN THE SUBJECT OUTLETS IN OPERATION.

3. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO REMOVAL OF EXISTING ELECTRICAL/LOW VOLTAGE 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 EQUIPMENT.

4. ALL EXISTING CONDUITS WITHIN PROJECT AREA FOR LIGHTING FIXTURES, RECEPTAGLES, OTHER BRANCH CIRCUITS LOADS AND COMMUNICATIONS/SIGNAL SYSTEMS, WHETHER SHOWN ON PLANS OR NOT, SHALL BE A PART OF THIS CONTRACT.

5. IN GENERAL, THE DEMOLITION PLAN SHOWS EXISTING EQUIPMENT THAT IS TO REMAIN, BE REMOVED OR REMOVED AND RELOCATED. HOWEVER, ELECTRICAL EQUIPMENT WHETHER SHOWN ON THIS DRAWING OR NOT, THAT IS LOCATED IN A REMOVED WALL OR CEILING, SHALL BE REMOVED UNLESS OTHERWISE NOTED.

6. WHERE EXISTING EQUIPMENT IS REMOVED BY WORK UNDER THIS CONTRACT, EXISTING CONDUIT FEEDS UP THROUGH THE FLOOR SHALL BE CUT OFF AND PLUGGED FLUSH WITH FLOOR AND CONDUCTORS REMOVED FROM THAT POINT BACK TO THE LAST OUTLET REMAINING IN SERVICE. WHERE THE SUBJECT CONDUIT FEEDS OUTLETS/ DEVICES REMAINING IN OPERATION THE CONTRACTOR SHALL REROUTE THE SUBJECT CONDUIT AND CONDUCTORS AS REQUIRED TO MAINTAIN OPERATION OF SUCH CIRCUITS/SYSTEMS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND DIMENSION ALL SUCH CONDUITS ON THE "RECORD" DRAWINGS.

7. WHERE EXISTING ROOF MOUNTED EQUIPMENT IS REMOVED BY WORK UNDER THIS CONTRACT, THE EXISTING CONDUIT FEEDS UP THROUGH THE ROOF SHALL BE REMOVED FROM THAT POINT BACK TO THE SERVING PANEL OR LAST EQUIPMENT REMAINING IN SERVICE. WHERE THE SUBJECT CONDUIT FEEDS EQUIPMENT REMAINING IN OPERATION THE CONTRACTOR SHALL REROUTE THE SUBJECT CONDUIT AND CONDUCTORS AS REQUIRED TO MAINTAIN OPERATION OF SUCH EQUIPMENT. THE CONTRACTOR SHALL PATCH, REPAIR AND REFINISH ALL WALL AND ROOF PENETRATIONS AFFECTED BY THE REMOVAL OF THE CONDUIT.

8. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO MAINTAIN CONTINUITY OF ALL ELECTRICAL AND COMMUNICATION SYSTEMS, EQUIPMENT, ETC., REMAINING IN OPERATION. MAINTAINING CONTINUITY SHALL CONSIST OF RE-ROUTING CONDUIT, WIRE, ETC., AS REQUIRED TO MAINTAIN THE SUBJECT SERVICES IN OPERATION.

9. EXISTING CIRCUITS THAT ARE REMOVED AND NOT RE-USED SHALL BE IDENTIFIED ON THE PANEL SCHEDULE AS "SPARE".

10. REFER TO GENERAL NOTES, THIS SHEET, FOR ADDITIONAL REQUIREMENTS.

11. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED,NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DISTRICT STRUCTURAL ENGINEER FROM THE DIVISION OF THE STATE ARCHITECT.

REFERENCES & ABBREVIATIONS

⊖	DETAIL REFERENCE	MCB	MAIN CIRCUIT BREAKER
1	KEYNOTE REFERENCE	FLA	FULL LOAD AMPS
A.F.F.	ABOVE FINISH FLOOR	C.	CONDUIT
U.O.N.	UNLESS OTHERWISE NOTED	V.	VOLTS
C.O.	CONDUIT ONLY W/PULL ROPE	A	AMPS
WP	WEATHER PROOF	GFI	GROUND FAULT INTERRUPTER
CU.	COPPER	GND	GROUND
M.L.O.	MAIN LUGS ONLY	V.L.	VERIFY LOCATION
E or (E)	EXISTING TO REMAIN	A.C.	ABOVE COUNTER
E.Q.	EQUAL	N.L.	NIGHT LIGHT

APPLICABLE CODES

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS AND REGULATIONS, AND THE REQUIREMENTS OF THE CALIFORNIA CODE OF REGULATIONS (C.C.R.), TITLE 24, INCLUSIVE OF:

2025 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR

2025 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR

2025 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR

2025 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR

2025 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR

2025 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 CCR

2025 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR

2025 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR

2025 CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN), PART 11, TITLE 24 CCR

2025 CALIFORNIA REFERENCED STANDARDS CODE, PART 12 TITLE 24 CCR

TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

APPLICABLE STANDARDS

FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO NFPA STANDARDS, REFER TO CBC CHAPTER 35 AND CFC CHAPTER 80.

SYMBOL LIST

- CONDUIT RUN, CONCEALED IN CEILING, WALLS OR UNDER FLOOR 3/4" MIN. IN CEILING OR WALLS, 1"C. MINIMUM FOR UNDERGROUND / UNDER FLOOR.
- CONDUIT TURNED DOWN.
- CONDUIT TURNED UP.
- CONDUIT RUN UNDERGROUND, 1"C. MINIMUM. PROVIDE SIZE PER PLAN.
- #10 — CROSS LINES ON CONDUIT RUNS INDICATE NUMBER OF #12 WIRES CONTAINED THEREIN. TWO #12 ARE TO BE PROVIDED WHEN CROSS LINES ARE NOT SHOWN. NUMERALS ADJACENT TO CROSS LINES ON CONDUIT RUNS INDICATE SIZE OF CONDUCTORS IN LIEU OF #12. PROVIDE CONDUIT SIZE AS REQUIRED TO ACCOMMODATE THE WIRE SIZE TO BE CONTAINED THEREIN.
- B-1,3 — CONDUIT HOME RUN TO PANELBOARD. LETTER AND NUMERALS INDICATES ELECTRICAL PANEL AND CIRCUIT NUMBER.
- WP — WEATHERPROOF.
- BRANCH CIRCUIT PANEL, MOUNTING AS SHOWN ON SCHEDULES.
- MOLDED CASE CIRCUIT BREAKER (SINGLE LINE DIAGRAM).
- AT — CIRCUIT BREAKER AMPERE TRIP RATING (SINGLE LINE DIAGRAM).
- — E — EXISTING CONDUIT AND CONDUCTORS TO REMAIN IN PLACE.
- — EX — EXISTING CONDUIT TO BE RE-USED. CONDUCTORS TO BE DISCONNECTED AND REMOVED.
- — EN — EXISTING CONDUIT WITH NEW CONDUCTORS.
- — EA — EXISTING CONDUIT TO BE ABANDONED IN PLACE. CONDUCTORS TO BE DISCONNECTED AND REMOVED.
- — ER — EXISTING CONDUIT AND CONDUCTORS TO BE DISCONNECTED AND REMOVED.
- (E) — EXISTING EQUIPMENT TO REMAIN IN OPERATION.
- (N) — NEW EQUIPMENT.
- (R) — EXISTING EQUIPMENT TO BE DISCONNECTED AND REMOVED. REMOVE ALL EXISTING CONDUIT AND FEEDERS FROM EQUIPMENT MARKED TO BE REMOVED ALL THE WAY BACK TO THE SERVING PANEL UNLESS OTHERWISE NOTED.
- (RR) — EXISTING EQUIPMENT TO BE REMOVED AND RELOCATED.
- (EN) — EXISTING EQUIPMENT IN NEW LOCATION.
- S^2 — 2 POLE MOTOR RATED SWITCH.
- C (J) WP — JUNCTION BOX. WP = WEATHER PROOF NEMA 3R. C = CEILING TYPE.
- GFI — DUPLEX RECEPTACLE, WITH GROUND FAULT INTERRUPTER (20 AMP, 120V., 3W, WALL PLATE TO MATCH DEVICE) MTD. AT +15". RECEPTACLE SHALL BE PROVIDED COMPLETE WITH WEATHERPROOF COVERS U.L. LISTED FOR WET LOCATIONS WHEN IN USE.
- AC 1 — HVAC EQUIPMENT DESIGNATION. SEE MECHANICAL PLANS.
- _AS/_P/_AF — FUSED DISCONNECT SWITCH, HEAVY DUTY TYPE WITH REQUIRED QUANTITY OF DUAL ELEMENT TIME DELAY FUSES. NEMA 3R FOR OUTDOOR USE. AS=SWITCH AMPERE RATING. P=NUMBER OF POLES. AF=FUSE AMPERE RATING.
- _AS/_P — NON-FUSED DISCONNECT SWITCH, HEAVY DUTY TYPE. AS=SWITCH AMPERE RATING. P=NUMBER OF POLES.
- 1 — NOTE IDENTIFICATION SYMBOL.
- X 5#X — DETAIL IDENTIFICATION SYMBOL.
- T — THERMOSTAT, MOUNTED AT +48" A.F.F. TO TOP OF BOX. SEE MECHANICAL FOR EXACT REQUIREMENTS.
- H-O-A — COMBINATION FUSED DISCONNECT SWITCH AND MAGNETIC MOTOR STARTER. ROMAN NUMERAL INDICATES THE STARTER SIZE. H-O-A INDICATES DOOR MOUNTED HAND-OFF-AUTO SELECTOR SWITCH. FUSES AND OVERLOADS SHALL BE SIZED PER THE EQUIPMENT NAME PLATE.
- Sa^3 — SINGLE POLE SWITCH, LETTER AT BOTTOM INDICATES OUTLETS CONTROLLED. MOUNTED AT +48" TO TOP OF THE BOX. STAINLESS STEEL WALL PLATE. SUPERSCRIPT DENOTES: 2 - DOUBLE POLE; 3 - THREE WAY; 4 - FOUR WAY; P - PILOT LIGHT; K - KEY OPERATED; T - TIMER
- S_m — SINGLE POLE MANUAL MOTOR STARTER WITH THERMAL OVERLOAD.

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-126114 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 09/15/2026

optimum energy design
Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
Telephone (714) 693-2277

STAMP

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL
5260 CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1
2		
3		
4		

JOB NO:	501-26-0032
DATE:	09/04/2026
DRAWN:	MS
CHECK:	LMF
ARCHITECT:	PETRA
ENGINEER:	OED
DSA NUMBER:	03-126114

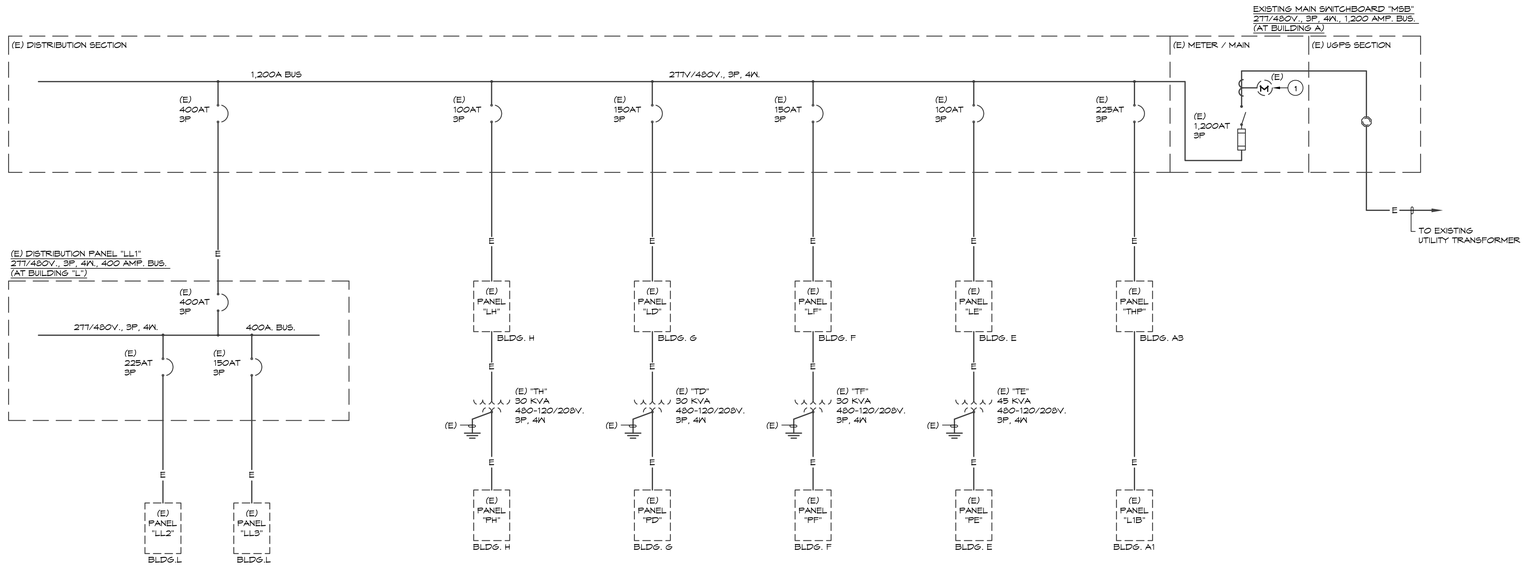
CONSULTANT

STAMP

REGISTERED PROFESSIONAL ENGINEER
RICARDO L. SOTELO
No. E17229
6/30/28
ELECTRICAL
STATE OF CALIFORNIA

SHEET DESCRIPTION:
GENERAL NOTES AND SYMBOL LIST

SHEET NO:
E-0.1



SINGLE LINE NOTES:

1. EXISTING UTILITY METER #3594230-0070710 TO REMAIN.

CONSTRUCTION NOTES:

1. REFER TO GENERAL NOTES, DRAWING E-0.1, FOR ADDITIONAL REQUIREMENTS.
2. CONTRACTOR SHALL PROVIDE UPDATED NAME PLATES TO IDENTIFY THE NEW CIRCUIT BREAKERS WITHIN THE MAIN SWITCHBOARD AND DISTRIBUTION BOARDS. CONTRACTOR SHALL PROVIDE NEW TYPED PANEL DIRECTORIES FOR BRANCH CIRCUIT PANELS AFFECTED BY THE SCOPE OF WORK UPON COMPLETION OF THE REMODEL WORK.
3. CONTRACTOR TO PROVIDE ALL REQUIRED MOUNTING HARDWARE REQUIRED FOR FULLY OPERABLE CIRCUIT BREAKERS.

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-126114 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 09/15/2026

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PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL
5260 CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1
2		
3		
4		

JOB NO:	501-26-0032
DATE:	09/04/2026
DRAWN:	MS
CHECK:	LMF
ARCHITECT:	PETRA
ENGINEER:	OED
DSA NUMBER:	03-126114

CONSULTANT

STAMP

REGISTERED PROFESSIONAL ENGINEER
RICARDO L. SOTELO
No. E17229
6/30/28
ELECTRICAL
STATE OF CALIFORNIA

SHEET DESCRIPTION:
SINGLE LINE DIAGRAM

SHEET NO:
E-0.2

EXISTING

PANEL "L1B" — MAIN BREAKER: 100A. — SCA: — VOLTAGE: 480/277V-4-WIRE — BUS SIZE — MOUNT: RECESSED — LOCATION: BOOK ROOM A125 — COPPER: 100A. — ENTRY: BOTTOM

	DESCRIPTION	CKT	BKR	P	LTS	REC	MSC	MTR	A-VA	B-VA	C-VA	AMPS
✱	INTERIOR LIGHTS	1	20	1								
↕	INTERIOR LIGHTS	3	20	1								
	LIGHTS	5	20	1								
□	L1	7	15	3			1		2933			
↕	W/CKT. 7	9	----	---						2933		
	W/CKT. 7	11	----	---							2933	
	SPACE	13										
	SPACE	15										
	SPACE	17										
	SPACE	19										
	SPACE	21										
	SPACE	23										
	SPACE	25										
	SPACE	27										
	SPACE	29										
								SUB TOTAL VOLT/AMPS:	2933	2933	2933	
□	L2	2	15	3			1		2933			
↕	W/CKT. 2	4	----	---						2933		
	W/CKT. 2	6	----	---							2933	
	SPACE	8										
	SPACE	10										
	SPACE	12										
	SPACE	14										
	SPACE	16										
	SPACE	18										
	SPACE	20										
	SPACE	22										
	SPACE	24										
	SPACE	26										
	SPACE	28										
	SPACE	30										
								SUB TOTAL VOLT/AMPS:	2933	2933	2933	
								PANEL SUB TOTAL VOLT/AMPS:	5866	5866	5866	
								TOTAL LCL/PHASE:	0	0	0	
	CONNECTED: 17598 VA							TOTAL VOLT/AMPS:	5866	5866	5866	
	25% OF MTR: VA							TOTAL AMPS/PHASE:	21	21	21	
	25% OF LCL: 0 VA											
	CALCULATED: 17598 VA = 21.17 AVERAGE AMPS											

✱ = EXISTING LOAD TO REMAIN.
□ = NEW LOAD AND NEW CIRCUIT BREAKER AT REMOVED CIRCUIT BREAKER LOCATION. NEW CIRCUIT BREAKER SHALL MATCH EXISTING IN MANUFACTURER AND DUTY. CONTRACTOR SHALL TURN OVER ALL REMOVED CIRCUIT BREAKERS TO THE OWNER.

EXISTING

PANEL "LD" — MAIN BREAKER: 150A. — SCA: — VOLTAGE: 480/277V-4-WIRE — BUS SIZE — MOUNT: SURFACE — LOCATION: HEATER D106 — COPPER: 225A. — ENTRY: BOTTOM

	DESCRIPTION	CKT	BKR	P	LTS	REC	MSC	MTR	A-VA	B-VA	C-VA	AMPS
✱	ELECT. RM. & R.R. LTS.	1	20	1								
↕	EXTERIOR LIGHTS	3	20	1								
	ADMIN	5	20	1								
	SPARE	7	20	1								
	SPARE	9	20	1								
	SPACE	11										
□	G1	13	15	3				1	2933			
↕	W/CKT. 13	15	----	---						2933		
	W/CKT. 13	17	----	---							2933	
	G2	19	15	3				1	2933			
↕	W/CKT. 19	21	----	---						2933		
	W/CKT. 19	23	----	---							2933	
✱	TRANSFORMER "TD"	25	50	3								
↕	W/CKT. 25	27	----	---								
	W/CKT. 25	29	----	---								
								SUB TOTAL VOLT/AMPS:	5866	5866	5866	
✱	CLASSROOM #8 LIGHT	2	20	1								
↕	CLASSROOM #9 LIGHT	4	20	1								
	CLASSROOM #10 LIGHT	6	20	1								
	ADMIN	8	20	1								
	ADMIN	10	20	1								
	ADMIN	12	20	1								
	SPARE	14	20	1								
	SPACE	16										
	SPACE	18										
□	G3	20	15	3				1	2933			
↕	W/CKT. 20	22	----	---						2933		
	W/CKT. 20	24	----	---							2933	
	G4	26	15	3				1	2933			
↕	W/CKT. 26	28	----	---						2933		
	W/CKT. 26	30	----	---							2933	
								SUB TOTAL VOLT/AMPS:	5866	5866	5866	
								PANEL SUB TOTAL VOLT/AMPS:	11732	11732	11732	
								TOTAL LCL/PHASE:	0	0	0	
	CONNECTED: 35196 VA							TOTAL VOLT/AMPS:	11732	11732	11732	
	25% OF MTR: VA							TOTAL AMPS/PHASE:	42	42	42	
	25% OF LCL: 0 VA											
	CALCULATED: 35196 VA = 42.33 AVERAGE AMPS											

✱ = EXISTING LOAD TO REMAIN.
□ = NEW LOAD AND NEW CIRCUIT BREAKER AT REMOVED CIRCUIT BREAKER LOCATION. NEW CIRCUIT BREAKER SHALL MATCH EXISTING IN MANUFACTURER AND DUTY. CONTRACTOR SHALL TURN OVER ALL REMOVED CIRCUIT BREAKERS TO THE OWNER.

EXISTING

PANEL "LE" — MAIN BREAKER: M.L.O. — SCA: — VOLTAGE: 480/277V-4-WIRE — BUS SIZE — MOUNT: SURFACE — LOCATION: BUILDING E — COPPER: 225A. — ENTRY: BOTTOM

	DESCRIPTION	CKT	BKR	P	LTS	REC	MSC	MTR	A-VA	B-VA	C-VA	AMPS
✱	TRANSFORMER "TE"	1	70	3								
↕	W/CKT. 1	3	----	---								
	W/CKT. 1	5	----	---								
□	E-1	7	15	3			1		2933			
↕	W/CKT. 7	9	----	---						2933		
	W/CKT. 7	11	----	---							2933	
	E-3	13	15	3			1		2933			
↕	W/CKT. 13	15	----	---						2933		
	W/CKT. 13	17	----	---							2933	
	SPACE	19										
	SPACE	21										
	SPACE	23										
	SPACE	25										
	SPACE	27										
	SPACE	29										
	SPACE	31										
	SPACE	33										
	SPACE	35										
	SPACE	37										
	SPACE	39										
	SPACE	41										
								SUB TOTAL VOLT/AMPS:	5866	5866	5866	
✱	WATER HEATER	2	25	3								
↕	W/CKT. 2	4	----	---								
	W/CKT. 2	6	----	---								
□	E-2	8	15	3			1		2933			
↕	W/CKT. 8	10	----	---						2933		
	W/CKT. 8	12	----	---							2933	
✱	PARKING LOT LIGHTS	14	20	1								
↕	LIGHTS	16	20	1								
	LIGHTS	18	20	1								
	SPACE	20										
	SPACE	22										
	SPACE	24										
	SPACE	26										
	SPACE	28										
	SPACE	30										
	SPACE	32										
	SPACE	34										
	SPACE	36										
	SPACE	38										
	SPACE	40										
	SPACE	42										
								SUB TOTAL VOLT/AMPS:	2933	2933	2933	
								PANEL SUB TOTAL VOLT/AMPS:	8799	8799	8799	
								TOTAL LCL/PHASE:	0	0	0	
	CONNECTED: 26397 VA							TOTAL VOLT/AMPS:	8799	8799	8799	
	25% OF MTR: VA							TOTAL AMPS/PHASE:	32	32	32	
	25% OF LCL: 0 VA											
	CALCULATED: 26397 VA = 31.75 AVERAGE AMPS											

✱ = EXISTING LOAD TO REMAIN.
□ = NEW LOAD AT EXISTING BREAKER.

EXISTING

PANEL "LF" — MAIN BREAKER: 150A. — SCA: — VOLTAGE: 480/277V-4-WIRE — BUS SIZE — MOUNT: SURFACE — LOCATION: BUILDING F EXTERIOR — COPPER: 225A. — ENTRY: BOTTOM

	DESCRIPTION	CKT	BKR	P	LTS	REC	MSC	MTR	A-VA	B-VA	C-VA	AMPS
✱	ROOM LIGHTS 4 - 5AB	1	20	1								
↕	E LIGHTS ROOM 4 - 5AB	3	20	1								
	OUTSIDE LIGHTS	5	20	1								
	SPARE	7	20	1								
	SPARE	9	20	1								
□	AC F2	11	15	3				1			2933	
↕	W/CKT. 11	13	----	---					2933			
	W/CKT. 11	15	----	---						2933		
	SPACE	17										
□	AC P1 BUILDING P (NORTH)	19	15	3				1	2961			
↕	W/CKT. 19	21	----	---						2961		
	W/CKT. 19	23	----	---							2961	
✱	TRANSFORMER "TF"	25	50	3								
↕	W/CKT. 25	27	----	---								
	W/CKT. 25	29	----	---								
								SUB TOTAL VOLT/AMPS:	5894	5894	5894	
✱	LIGHTS	2	20	1								
↕	LIGHTS	4	20	1								
	LIGHTS	6	20	1								
	SPARE	8	20	1								
	SPARE	10	20	1								
	SPACE	12										
	SPACE	14										
□	AC F1	16	15	3				1			2933	
↕	W/CKT. 16	18	----	---							2933	
	W/CKT. 16	20	----	---					2933			
	SPACE	22										
	SPACE	24										
✱	AC	26	30	3								
↕	W/CKT. 26	28	----	---								
	W/CKT. 26	30	----	---								
								SUB TOTAL VOLT/AMPS:	2933	2933	2933	
								PANEL SUB TOTAL VOLT/AMPS:	8827	8827	8827	
								TOTAL LCL/PHASE:	0	0	0	
	CONNECTED: 26481 VA							TOTAL VOLT/AMPS:	8827	8827	8827	
	25% OF MTR: VA							TOTAL AMPS/PHASE:	32	32	32	
	25% OF LCL: 0 VA											
	CALCULATED: 26481 VA = 31.85 AVERAGE AMPS											

✱ = EXISTING LOAD TO REMAIN.
□ = NEW LOAD AND NEW CIRCUIT BREAKER AT REMOVED CIRCUIT BREAKER LOCATION. NEW CIRCUIT BREAKER SHALL MATCH EXISTING IN MANUFACTURER AND DUTY. CONTRACTOR SHALL TURN OVER ALL REMOVED CIRCUIT BREAKERS TO THE OWNER.

EXISTING

PANEL "LH" — MAIN BREAKER: 150A. — SCA: — VOLTAGE: 480/277V-4-WIRE — BUS SIZE — MOUNT: SURFACE — LOCATION: BUILDING H EXTERIOR — COPPER: 225A. — ENTRY: BOTTOM

	DESCRIPTION	CKT	BKR	P	LTS	REC	MSC	MTR	A-VA	B-VA	C-VA	AMPS
✱	EXTERIOR LIGHTS	1	20	1								
	SPARE	3	20	1								
	SPARE	5	20	1								
□	AC P2 BUILDING P (SOUTH)	7	15	3			1		2961			
↕	W/CKT. 7	9	----	---						2961		
	W/CKT. 7	11	----	---							2961	
✱	AC	13	15	3								
↕	W/CKT. 13	15	----	---								
	W/CKT. 13	17	----	---								
	TRANSFORMER "TH"	19	50	3								
↕	W/CKT. 19	21	----	---								
	W/CKT. 19	23	----	---								
	MAIN CIRCUIT BREAKER	25	100	3								
↕	W/CKT. 25	27	----	---								
	W/CKT. 25	29	----	---								
								SUB TOTAL VOLT/AMPS:	2961	2961	2961	
	SPARE	2	20	1								
	SPARE	4	20	1								
	SPARE	6	20	1								
✱	AC RM #18	8	15	3								
↕	W/CKT. 8	10	----	---								
	W/CKT. 8	12	----	---								
	AC	14	15	3								
↕	W/CKT. 14	16	----	---								
	W/CKT. 14	18	----	---								
	SPACE	20										
	SPACE	22										
	SPACE	24										
	SPACE	26										
	SPACE	28										
	SPACE	30										
								SUB TOTAL VOLT/AMPS:	0	0	0	
								PANEL SUB TOTAL VOLT/AMPS:	2961	2961	2961	
								TOTAL LCL/PHASE:	0	0	0	
	CONNECTED: 8883 VA							TOTAL VOLT/AMPS:	2961	2961	2961	
	25% OF MTR: VA							TOTAL AMPS/PHASE:	11	11	11	
	25% OF LCL: 0 VA											
	CALCULATED: 8883 VA = 10.68 AVERAGE AMPS											

✱ = EXISTING LOAD TO REMAIN.
□ = NEW LOAD AND NEW CIRCUIT BREAKER AT REMOVED CIRCUIT BREAKER LOCATION. NEW CIRCUIT BREAKER SHALL MATCH EXISTING IN MANUFACTURER AND DUTY. CONTRACTOR SHALL TURN OVER ALL REMOVED CIRCUIT BREAKERS TO THE OWNER.

EXISTING

PANEL "LL2" — MAIN BREAKER: M.L.O. — SCA: — VOLTAGE: 480/277V-4-WIRE — BUS SIZE — MOUNT: SURFACE — LOCATION: BUILDING L — COPPER: 225A. — ENTRY: BOTTOM

	DESCRIPTION	CKT	BKR	P	LTS	REC	MSC	MTR	A-VA	B-VA	C-VA	AMPS
✱	LTS. CLASS RM.7/JANITOR	1	20	1								
↕	LTS. CLASS RM.8/COMP LAB	3	20	1								
	LTS. CLASS RM.9/COMP LAB	5	20	1								
□	AC-5A	7	20	3				1	3874			
↕	W/CKT. 7	9	----	---						3874		
	W/CKT. 7	11	----	---							3874	
	AC-1A	13	15	3				1	3044			
↕	W/CKT. 13	15	----	---						3044		
	W/CKT. 13	17	----	---							3044	
	AC-3D	19	15	3				1	3044			
↕	W/CKT. 19	21	----	---						3044		
	W/CKT. 19	23	----	---							3044	
	AC-4A	25	20	3				1	3597			
↕	W/CKT. 25	27	----	---						3597		
	W/CKT. 25	29	----	---							3597	
	SPARE	31	20	1								
	SPARE	33	20	1								
	SPARE	35	20	1								
	SPACE	37										
	SPACE	39										
	SPACE	41										
								SUB TOTAL VOLT/AMPS:	13559	13559	13559	
□	AC-3A	2	15	3				1	3044			
↕	W/CKT. 2	4	----	---						3044		
	W/CKT. 2	6	----	---							3044	
	AC-3B	8	15	3				1	3044			
↕	W/CKT. 8	10	----	---						3044		
	W/CKT. 8	12	----	---							3044	
	AC-4C	14	20	3				1	3597			
↕	W/CKT. 14	16	----	---						3597		
	W/CKT. 14	18	----	---							3597	
	AC-1B	20	15	3				1	3044			
↕	W/CKT. 20	22	----	---						3044		
	W/CKT. 20	24	----	---							3044	
	SPARE	26	20	1								
	SPARE	28	20	1								
	SPARE	30	20	1								
	SPACE	32										
	SPACE	34										
	SPACE	36										
	SPACE	38										
	SPACE	40										
	SPACE	42										
								SUB TOTAL VOLT/AMPS:	12729	12729	12729	
								PANEL SUB TOTAL VOLT/AMPS:	26288	26288	26288	
								TOTAL LCL/PHASE:	0	0	0	
	CONNECTED: 78864 VA							TOTAL VOLT/AMPS:	26288	26288	26288	
	25% OF MTR: VA							TOTAL AMPS/PHASE:	95	95	95	
	25% OF LCL: 0 VA											
	CALCULATED: 78864 VA = 94.86 AVERAGE AMPS											

✱ = EXISTING LOAD TO REMAIN.
□ = NEW LOAD AND NEW CIRCUIT BREAKER AT REMOVED CIRCUIT BREAKER LOCATION. NEW CIRCUIT BREAKER SHALL MATCH EXISTING IN MANUFACTURER AND DUTY. CONTRACTOR SHALL TURN OVER ALL REMOVED CIRCUIT BREAKERS TO THE OWNER.

EXISTING

PANEL "LL3" — MAIN BREAKER: M.L.O. — SCA: — VOLTAGE: 480/277V-4-WIRE — BUS SIZE — MOUNT: SURFACE — LOCATION: BUILDING L — COPPER: 225A. — ENTRY: BOTTOM

	DESCRIPTION	CKT	BKR	P	LTS	REC	MSC	MTR	A-VA	B-VA	C-VA	AMPS
✱	LTS. CLASS 12. COMP LAB	1	20	1								
	LIGHTS CLASSROOM 11	3	20	1								
	LIGHTS CLASSROOM 10	5	20	1								
	LTS. JANITOR / RESTROOMS	7	20	1								
	LIGHTS CORRIDOR	9	20	1								
□	AC-2A	11	15	3			1				3044	
↕	W/CKT. 11	13	----	---					3044			
	W/CKT. 11	15	----	---						3044		
	SPARE	17	20	1								
	SPARE	19	20	1								
	SPARE	21	20	1								
	SPARE	23	20	1								
	SPARE	25	20	1								
	SPARE	27	20	1								
	SPARE	29	20	1								
	SPACE	31										
	SPACE	33										
	SPACE	35										
	SPACE	37										
	SPACE	39										
	SPACE	41										
								SUB TOTAL VOLT/AMPS:	3044	3044	3044	
□	AC-2B	2	15	3			1		3044			
↕	W/CKT. 2	4	----	---						3044		
	W/CKT. 2	6	----	---							3044	
	AC-2C	8	15	3			1		3044			
↕	W/CKT. 8	10	----	---						3044		
	W/CKT. 8	12	----	---							3044	
	AC-3C	14	15	3			1		3044			
↕	W/CKT. 14	16	----	---						3044		
	W/CKT. 14	18	----	---							3044	
	AC-4B	20	20	3			1		3597			
↕	W/CKT. 20	22	----	---						3597		
	W/CKT. 20	24	----	---							3597	
	SPARE	26	20	1								
	SPARE	28	20	1								
	SPARE	30	20	1								
	SPACE	32										
	SPACE	34										
	SPACE	36										
	SPACE	38										
	SPACE	40										
	SPACE	42										
								SUB TOTAL VOLT/AMPS:	12729	12729	12729	
								PANEL SUB TOTAL VOLT/AMPS:	15773	15773	15773	
								TOTAL LCL/PHASE:	0	0	0	
	CONNECTED: 47319 VA							TOTAL VOLT/AMPS:	15773	15773	15773	
	25% OF MTR: VA							TOTAL AMPS/PHASE:	57	57	57	
	25% OF LCL: 0 VA											
	CALCULATED: 47319 VA = 56.92 AVERAGE AMPS											

✱ = EXISTING LOAD TO REMAIN.
□ = NEW LOAD AND NEW CIRCUIT BREAKER AT REMOVED CIRCUIT BREAKER LOCATION. NEW CIRCUIT BREAKER SHALL MATCH EXISTING IN MANUFACTURER AND DUTY. CONTRACTOR SHALL TURN OVER ALL REMOVED CIRCUIT BREAKERS TO THE OWNER.

PLAN NOTES:

1. REFER TO GENERAL NOTES AND DEMOLITION NOTES, DRAWING E-0.1, FOR ADDITIONAL REQUIREMENTS.
2. CONTRACTOR MUST RECEIVE WRITTEN APPROVAL FROM THE ELECTRICAL ENGINEER PRIOR TO MAKING ANY ADJUSTMENT / CHANGES TO ANY BRANCH CIRCUIT PANEL CIRCUIT BREAKER ARRAIGNMENT.
3. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL PROVIDE NEW TYPED PANEL DIRECTORY FOR EACH PANEL AFFECTED WITHIN THIS SCOPE OF WORK. PANEL DIRECTORIES SHALL REFLECT THE APPROVED DRAWINGS AND AS-BUILT CONDITIONS.

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-126114 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 09/15/2026

optimum energy design
Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
Telephone (714) 693-2277

STAMP

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL
5260 CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1
2		
3		
4		

JOB NO: 501-26-0032
DATE: 09/04/2026
DRAWN: MS
CHECK: LMF
ARCHITECT: PETRA
ENGINEER: OED
DSA NUMBER: 03-126114

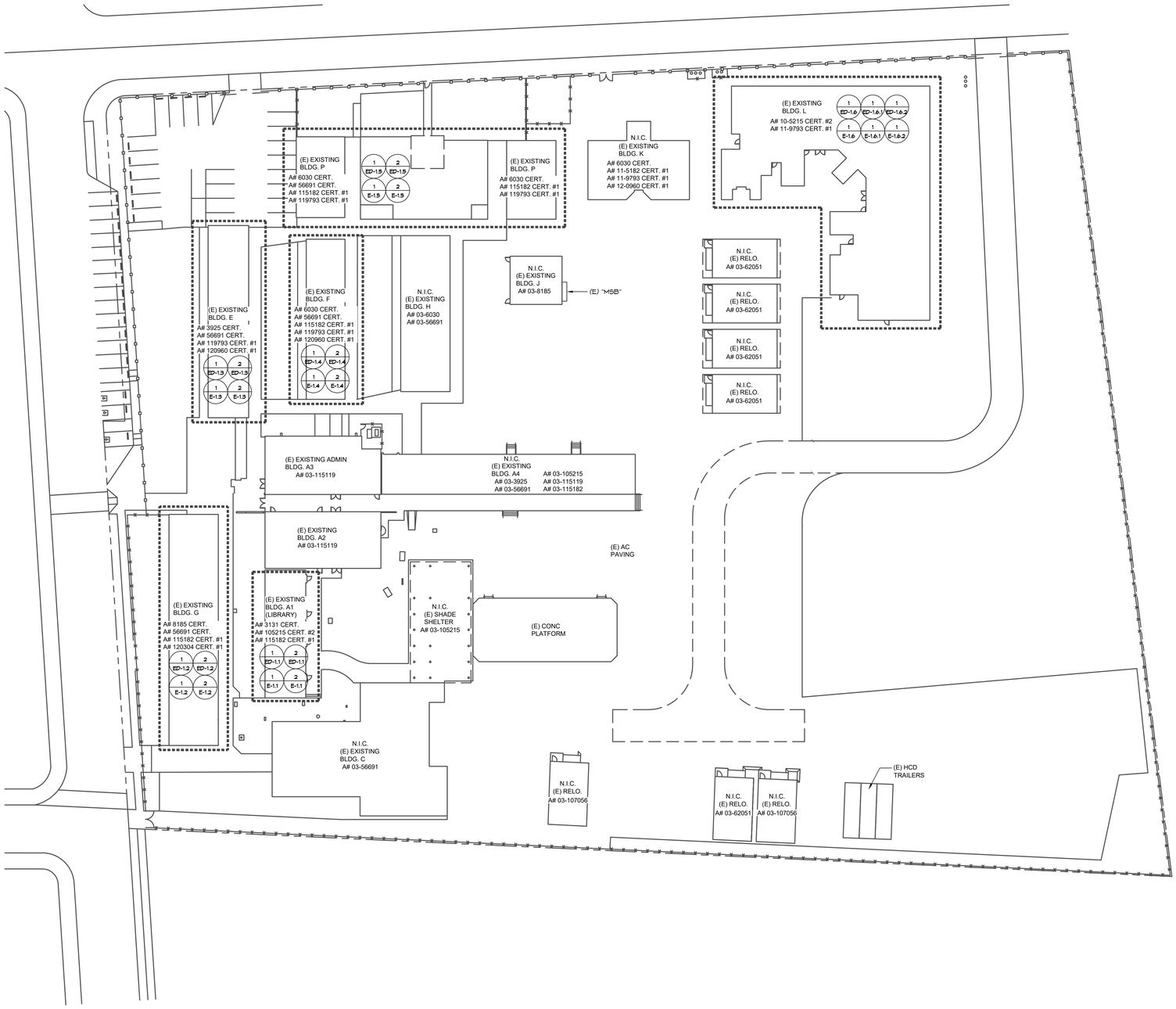
CONSULTANT

STAMP

REGISTERED PROFESSIONAL ENGINEER — LEONARD E. SOTO — No. E17229 6/30/28 — ELECTRICAL — STATE OF CALIFORNIA

SHEET DESCRIPTION:
PANEL SCHEDULES

SHEET NO:
E-0.3



CONSTRUCTION NOTES:

1. REFER TO GENERAL NOTES AND DEMOLITION NOTES, DRAWING E-0.1, FOR ADDITIONAL REQUIREMENTS.
2. ALL CIRCUITS SERVING THE REMODEL AREA, WHETHER IDENTIFIED ON PLAN OR NOT, SHALL BE TRACED AND IDENTIFIED PRIOR TO START OF THE DEMOLITION PHASE. CIRCUITS AFFECTED BY THE REMODEL THAT SERVE AREAS OF THE CAMPUS THAT ARE NOT A PART OF THE REMODEL SHALL BE MAINTAINED IN OPERATION DURING THE CONSTRUCTION PHASE. INTERRUPTION OF SERVICE WILL NOT BE ALLOWED.
3. CONTRACTOR TO PROVIDE ENGRAVED LABELING AT EACH RECEPTACLE, DATA OUTLET, JUNCTION BOX, DISCONNECT SWITCH, ECT. DISPLAYING THE IDF OR PANEL (WITH CIRCUIT) FEEDING THE DATA OUTLET, RECEPTACLE, JUNCTION BOX, DISCONNECT SWITCH, ECT.

OVERALL SITE PLAN | 1" = 30'-0" | 1

AGENCY APPROVAL

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5260 CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1
2		
3		
4		

JOB NO:	501-26-0032
DATE:	09/04/2026
DRAWN:	MS
CHECK:	LMF
ARCHITECT:	PETRA
ENGINEER:	OED
DSA NUMBER:	03-126114

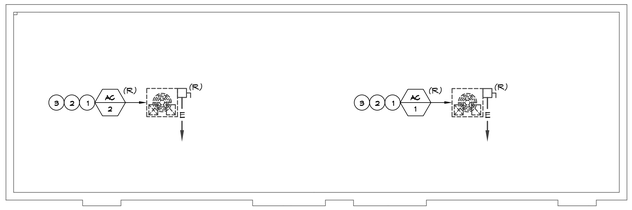
CONSULTANT

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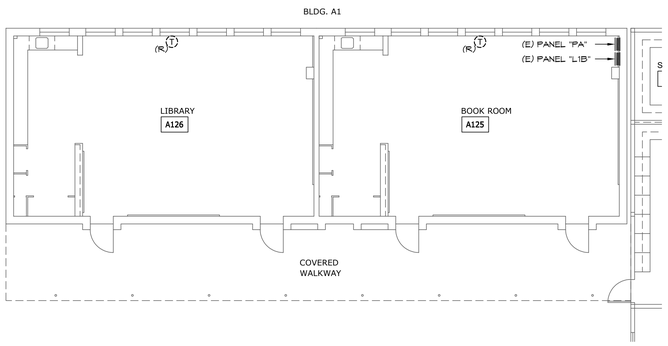
REGISTERED PROFESSIONAL ENGINEER
RICARDO L. SOTELO
No. E17229
6/30/28
ELECTRICAL
STATE OF CALIFORNIA

SHEET DESCRIPTION:
OVERALL SITE PLAN

SHEET NO:
E-1.0



DEMOLITION ROOF PLAN | 1/8" = 1'-0" | 2



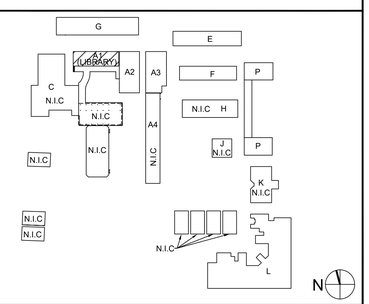
DEMOLITION FLOOR PLAN | 1/8" = 1'-0" | 1

PLAN NOTES:

1. CONTRACTOR SHALL REMOVE EXISTING HVAC UNIT AND DISCONNECT SWITCH ONLY. CONTRACTOR SHALL UTILIZE EXISTING CONDUIT AND CONDUCTORS FOR CONNECTION OF NEW HVAC UNIT AND NEW DISCONNECT SWITCH. REFER TO REMODEL PLAN FOR ADDITIONAL REQUIREMENTS.
2. CONTRACTOR SHALL DISCONNECT EXISTING FIRE ALARM CONTROL RELAY AND PROTECT DEVICE AND CABLES / CONDUCTORS FOR RECONNECTION DURING REMODEL WORK. EXISTING CONDUIT, CABLES / CONDUCTORS SHALL BE USED TO ENERGIZE / RECONNECT THE EXISTING FIRE ALARM CONTROL RELAY TO THE EXISTING FIRE ALARM SYSTEM. REFER TO REMODEL PLAN FOR ADDITIONAL REQUIREMENTS.
3. CONTRACTOR SHALL REMOVE EXISTING SOUTHERN CALIFORNIA EDISON (SCE) CYCLING DEVICE AND ASSOCIATED CONDUIT AND CONDUCTORS. CONTRACTOR SHALL TURN OVER REMOVED SOUTHERN CALIFORNIA EDISON (SCE) CYCLING DEVICE TO THE OWNER UPON COMPLETION OF DEMOLITION WORK.

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL NOTE THAT THE DRAWING IS DIAGRAMMATIC. EXACT ROUTING OF EXISTING CONDUITS AND LOCATION OF EXISTING JUNCTION BOXES, DISCONNECT SWITCHES, AND PULL BOXES SHALL BE COORDINATED AND DETERMINED IN THE FIELD.
2. CONTRACTOR SHALL PROVIDE UPDATE PANEL DIRECTORY (TYPED) AT ALL EXISTING DISTRIBUTION BOARDS AND BRACH CIRCUIT PANELS FOR ALL REMOVED AND ADDED HVAC EQUIPMENT.
3. ELECTRICAL CONTRACTOR SHALL DISCONNECT POWER FROM MECHANICAL EQUIPMENT TO BE REMOVED, RELOCATED, RE-USED AND/OR REPLACED AS REQUIRED. CONTRACTOR SHALL RECONNECT POWER TO ALL MECHANICAL EQUIPMENT BEING RE-USED AND/OR RELOCATED AS REQUIRED. REFER TO MECHANICAL DRAWINGS FOR ALL EQUIPMENT TO BE REMOVED, RELOCATED, RE-USED AND/OR REPLACED.
4. ALL CIRCUITS SERVING THE REMODEL AREA, WHETHER IDENTIFIED ON PLAN OR NOT, SHALL BE TRACED AND IDENTIFIED PRIOR TO START OF THE DEMOLITION PHASE. CIRCUITS AFFECTED BY THE REMODEL THAT SERVE AREAS OF THE BUILDING THAT ARE NOT A PART OF THE REMODEL SHALL BE MAINTAINED IN OPERATION DURING THE CONSTRUCTION PHASE. INTERRUPTION OF SERVICE WILL NOT BE ALLOWED.
5. REFER TO GENERAL NOTES AND DEMOLITION NOTES, DRAWING E-0.1, FOR ADDITIONAL REQUIREMENTS.



KEY PLAN | NOT TO SCALE

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 03-126114 INC:

REVIEWED FOR

SS ☑ FLS ☑ ACS ☐

DATE: 09/15/2026

optimum energy design

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Telephone (714) 693-2277

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PROJECT NAME:

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5260 CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1
2		
3		
4		

JOB NO:	501-26-0032
DATE:	09/04/2026
DRAWN:	MS
CHECK:	LMF
ARCHITECT:	PETRA
ENGINEER:	OED
DSA NUMBER:	03-126114

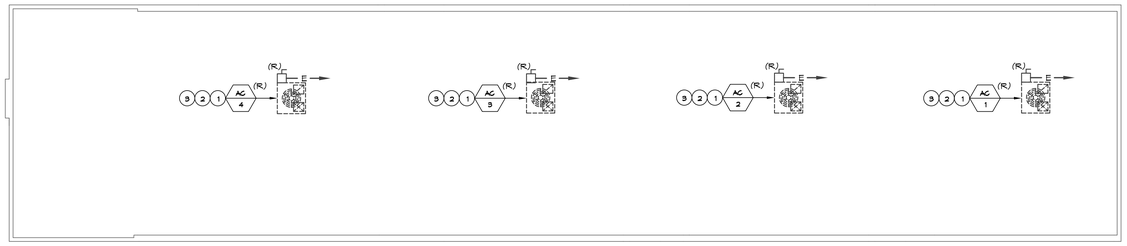
CONSULTANT

STAMP

REGISTERED PROFESSIONAL ENGINEER
RICARDO L. SOTELO
No. E17229
6/30/28
ELECTRICAL
STATE OF CALIFORNIA

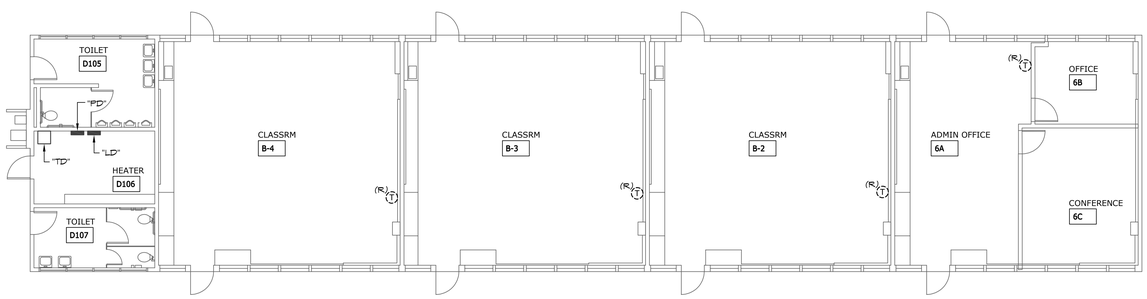
SHEET DESCRIPTION:
BUILDING A1 (LIBRARY) DEMOLITION PLANS

SHEET NO:
ED-1.1



REF NORTH

DEMOLITION ROOF PLAN | 1/8" = 1'-0" | 2



REF NORTH

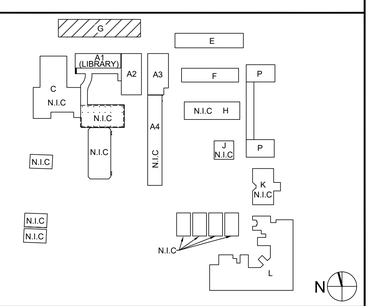
DEMOLITION FLOOR PLAN | 1/8" = 1'-0" | 1

PLAN NOTES:

1. CONTRACTOR SHALL REMOVE EXISTING HVAC UNIT AND DISCONNECT SWITCH ONLY. CONTRACTOR SHALL UTILIZE EXISTING CONDUIT AND CONDUCTORS FOR CONNECTION OF NEW HVAC UNIT AND NEW DISCONNECT SWITCH. REFER TO REMODEL PLAN FOR ADDITIONAL REQUIREMENTS.
2. CONTRACTOR SHALL DISCONNECT EXISTING FIRE ALARM CONTROL RELAY AND PROTECT DEVICE AND CABLES / CONDUCTORS FOR RECONNECTION DURING REMODEL WORK. EXISTING CONDUIT, CABLES / CONDUCTORS SHALL BE USED TO ENERGIZE / RECONNECT THE EXISTING FIRE ALARM CONTROL RELAY TO THE EXISTING FIRE ALARM SYSTEM. REFER TO REMODEL PLAN FOR ADDITIONAL REQUIREMENTS.
3. CONTRACTOR SHALL REMOVE EXISTING SOUTHERN CALIFORNIA EDISON (SCE) CYCLING DEVICE AND ASSOCIATED CONDUIT AND CONDUCTORS. CONTRACTOR SHALL TURN OVER REMOVED SOUTHERN CALIFORNIA EDISON (SCE) CYCLING DEVICE TO THE OWNER UPON COMPLETION OF DEMOLITION WORK.

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL NOTE THAT THE DRAWING IS DIAGRAMMATIC. EXACT ROUTING OF EXISTING CONDUITS AND LOCATION OF EXISTING JUNCTION BOXES, DISCONNECT SWITCHES, AND PULL BOXES SHALL BE COORDINATED AND DETERMINED IN THE FIELD.
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5. REFER TO GENERAL NOTES AND DEMOLITION NOTES, DRAWING E-0.1, FOR ADDITIONAL REQUIREMENTS.



KEY PLAN | NOT TO SCALE

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-126114 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 09/15/2026

optimum energy design
Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
Telephone (714) 693-2277

STAMP

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL
5260 CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1
2		
3		
4		

JOB NO:	501-26-0032
DATE:	09/04/2026
DRAWN:	MS
CHECK:	LMF
ARCHITECT:	PETRA
ENGINEER:	OED
DSA NUMBER:	03-126114

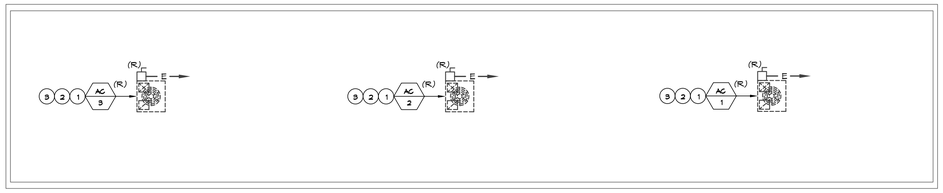
CONSULTANT

STAMP

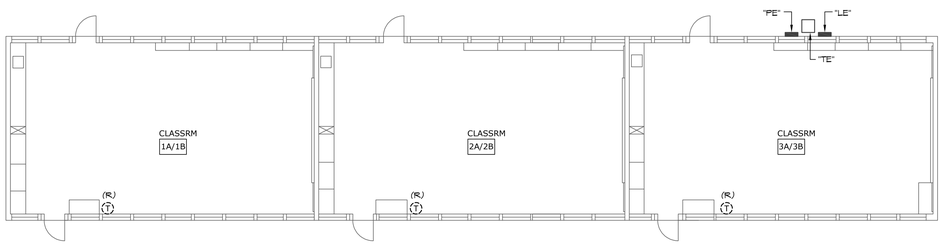
REGISTERED PROFESSIONAL ENGINEER
RICARDO L. SOTELO
No. E17229
6/30/28
ELECTRICAL
STATE OF CALIFORNIA

SHEET DESCRIPTION:
BUILDING G
DEMOLITION
PLANS

SHEET NO:
ED-1.2



DEMOLITION ROOF PLAN | 1/8" = 1'-0" | 2



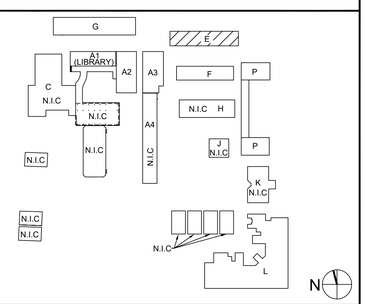
DEMOLITION FLOOR PLAN | 1/8" = 1'-0" | 1

PLAN NOTES:

1. CONTRACTOR SHALL REMOVE EXISTING HVAC UNIT AND DISCONNECT SWITCH ONLY. CONTRACTOR SHALL UTILIZE EXISTING CONDUIT AND CONDUCTORS FOR CONNECTION OF NEW HVAC UNIT AND NEW DISCONNECT SWITCH. REFER TO REMODEL PLAN FOR ADDITIONAL REQUIREMENTS.
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CONSTRUCTION NOTES:

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KEY PLAN | NOT TO SCALE

AGENCY APPROVAL

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DIV. OF THE STATE ARCHITECT
APP: 03-126114 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 09/15/2026

optimum energy design
Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
Telephone (714) 693-2277

STAMP

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL
5260 CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1
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JOB NO:	501-26-0032
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ENGINEER:	OED
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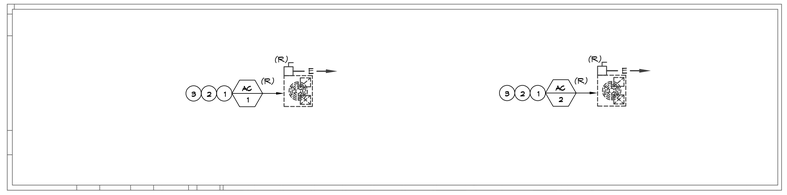
CONSULTANT

STAMP

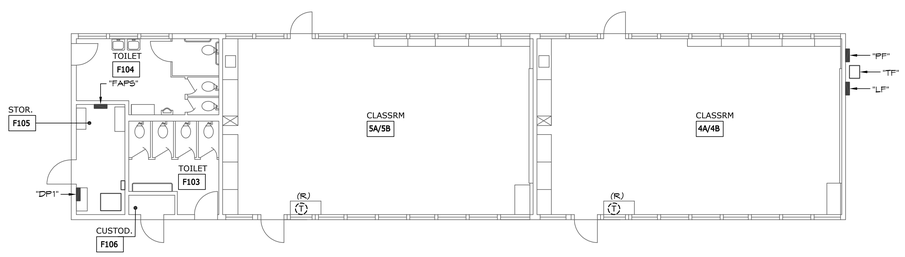
REGISTERED PROFESSIONAL ENGINEER
RICARDO L. SOTELO
No. E17229
6/30/28
ELECTRICAL
STATE OF CALIFORNIA

SHEET DESCRIPTION:
BUILDING E
DEMOLITION
PLANS

SHEET NO:
ED-1.3



DEMOLITION ROOF PLAN | 1/8" = 1'-0" | 2



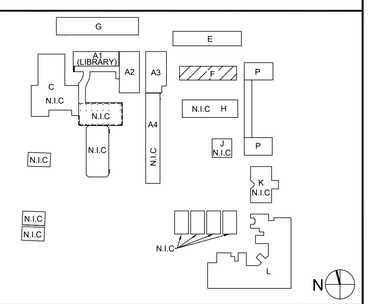
DEMOLITION FLOOR PLAN | 1/8" = 1'-0" | 1

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KEY PLAN | NOT TO SCALE

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-126114 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 09/15/2026

optimum energy design
Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
Telephone (714) 693-2277

STAMP

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL
5260 CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1
2		
3		
4		

JOB NO:	501-26-0032
DATE:	09/04/2026
DRAWN:	MS
CHECK:	LMF
ARCHITECT:	PETRA
ENGINEER:	OED
DSA NUMBER:	03-126114

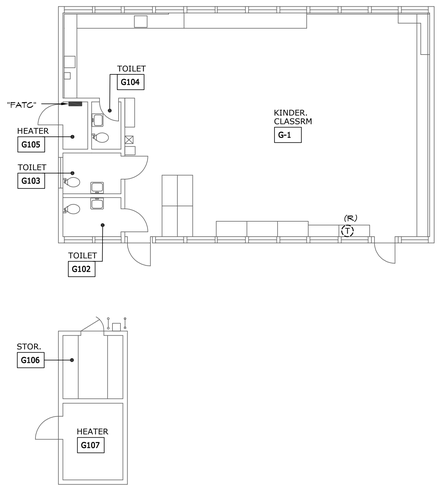
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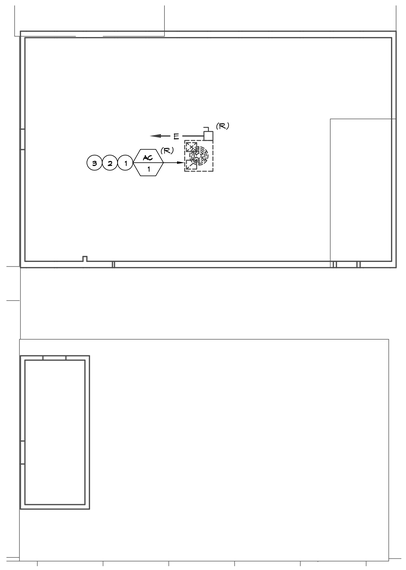
STAMP

REGISTERED PROFESSIONAL ENGINEER
RICARDO L. SOTELO
No. E17229
6/30/28
ELECTRICAL
STATE OF CALIFORNIA

SHEET DESCRIPTION:
BUILDING F
DEMOLITION
PLANS

SHEET NO:
ED-1.4



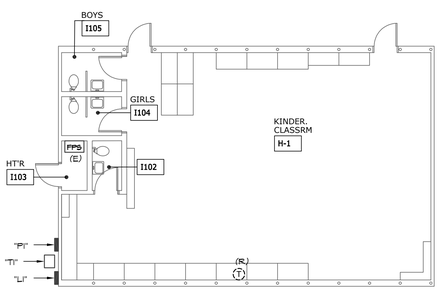


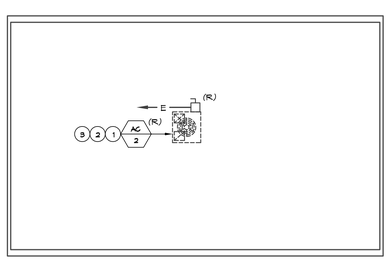
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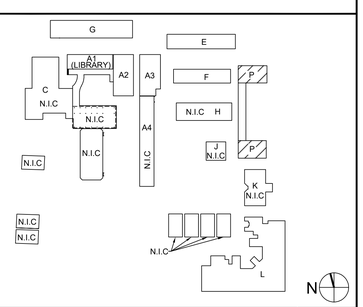
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REF. NORTH

DEMOLITION FLOOR PLAN	1/8" = 1'-0"	1

DEMOLITION ROOF PLAN	1/8" = 1'-0"	2

KEY PLAN	NOT TO SCALE

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-126114 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 09/15/2026

optimum energy design
Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
Telephone (714) 693-2277

STAMP

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL
5260 CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1
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4		

JOB NO:	501-26-0032
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DRAWN:	MS
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ARCHITECT:	PETRA
ENGINEER:	OED
DSA NUMBER:	03-126114

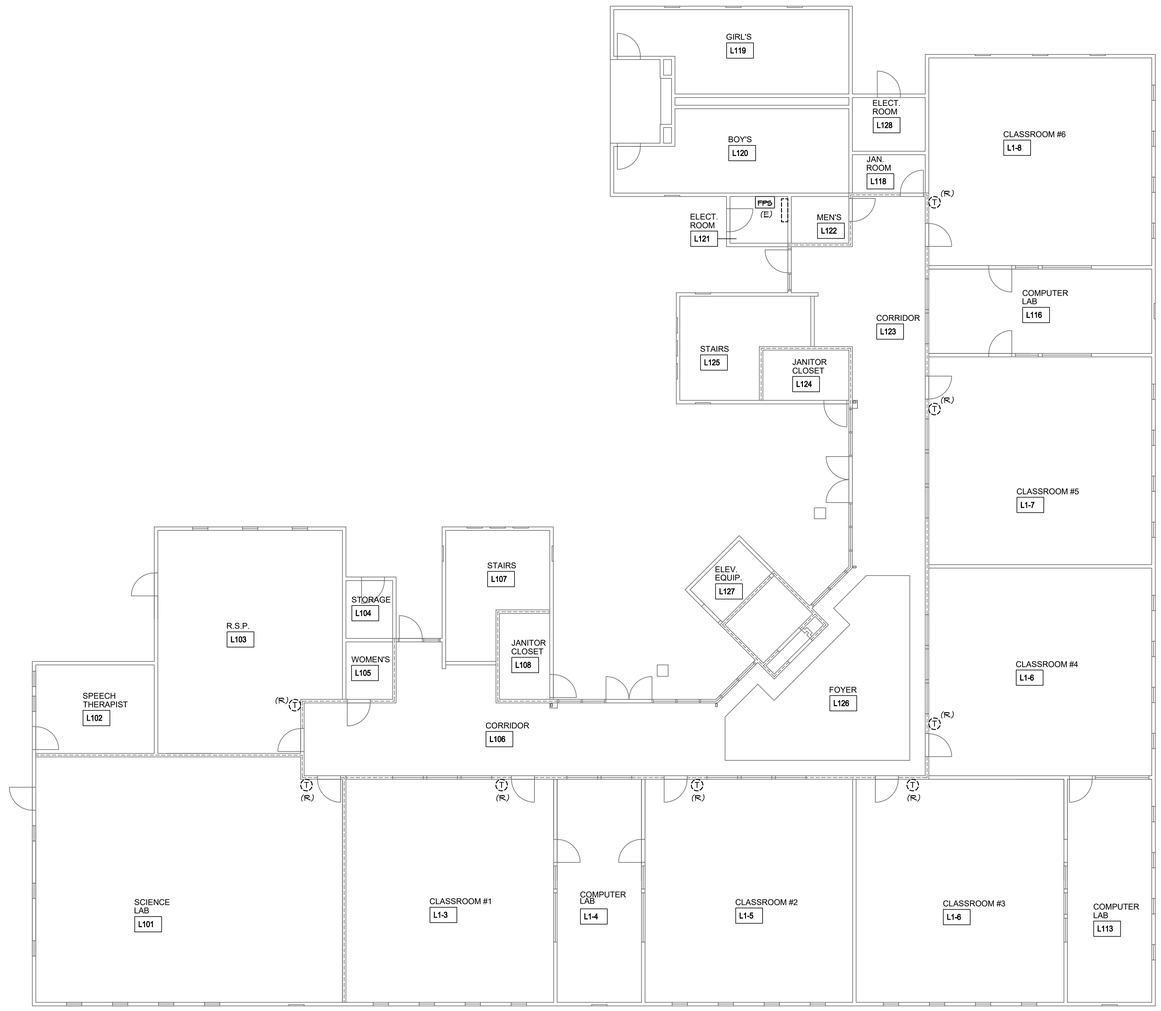
CONSULTANT

STAMP

REGISTERED PROFESSIONAL ENGINEER
RICARDO L. SOTELO
No. E17229
6/30/28
ELECTRICAL
STATE OF CALIFORNIA

SHEET DESCRIPTION:
BUILDING P
DEMOLITION
PLANS

SHEET NO:
ED-1.5

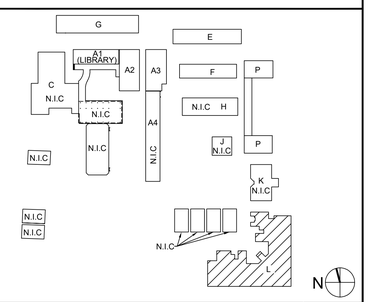


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REF. NORTH

DEMOLITION FIRST FLOOR PLAN | 1/8" = 1'-0" | 1



KEY PLAN | NOT TO SCALE

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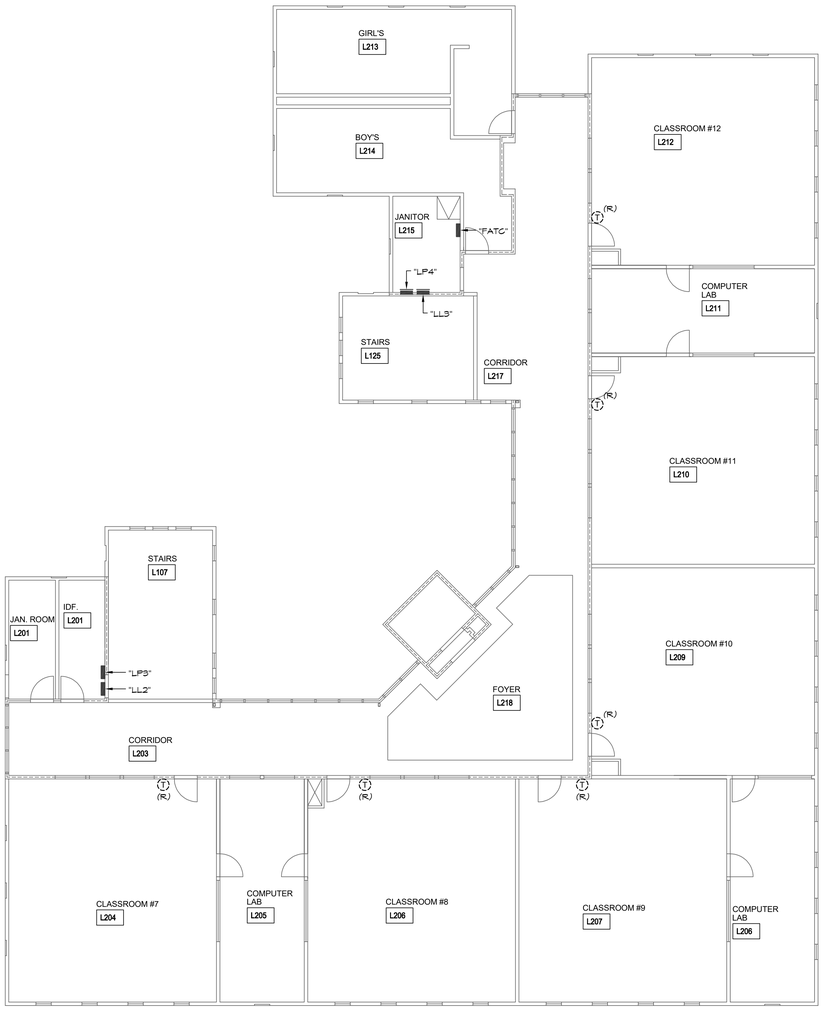
CONSULTANT

STAMP

REGISTERED PROFESSIONAL ENGINEER
ORLANDO E. SOTO
No. E17229
6/30/28
ELECTRICAL
STATE OF CALIFORNIA

SHEET DESCRIPTION:
BUILDING L
FIRST FLOOR
DEMOLITION
PLAN

SHEET NO:
ED-1.6



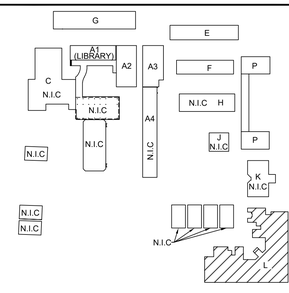
REF NORTH

N

DEMOLITION SECOND FLOOR PLAN | 1/8" = 1'-0" | 1

CONSTRUCTION NOTES:

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No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1

JOB NO:	501-26-0032
DATE:	09/04/2026
DRAWN:	MS
CHECK:	LMF
ARCHITECT:	PETRA
ENGINEER:	OED
DSA NUMBER:	03-126114

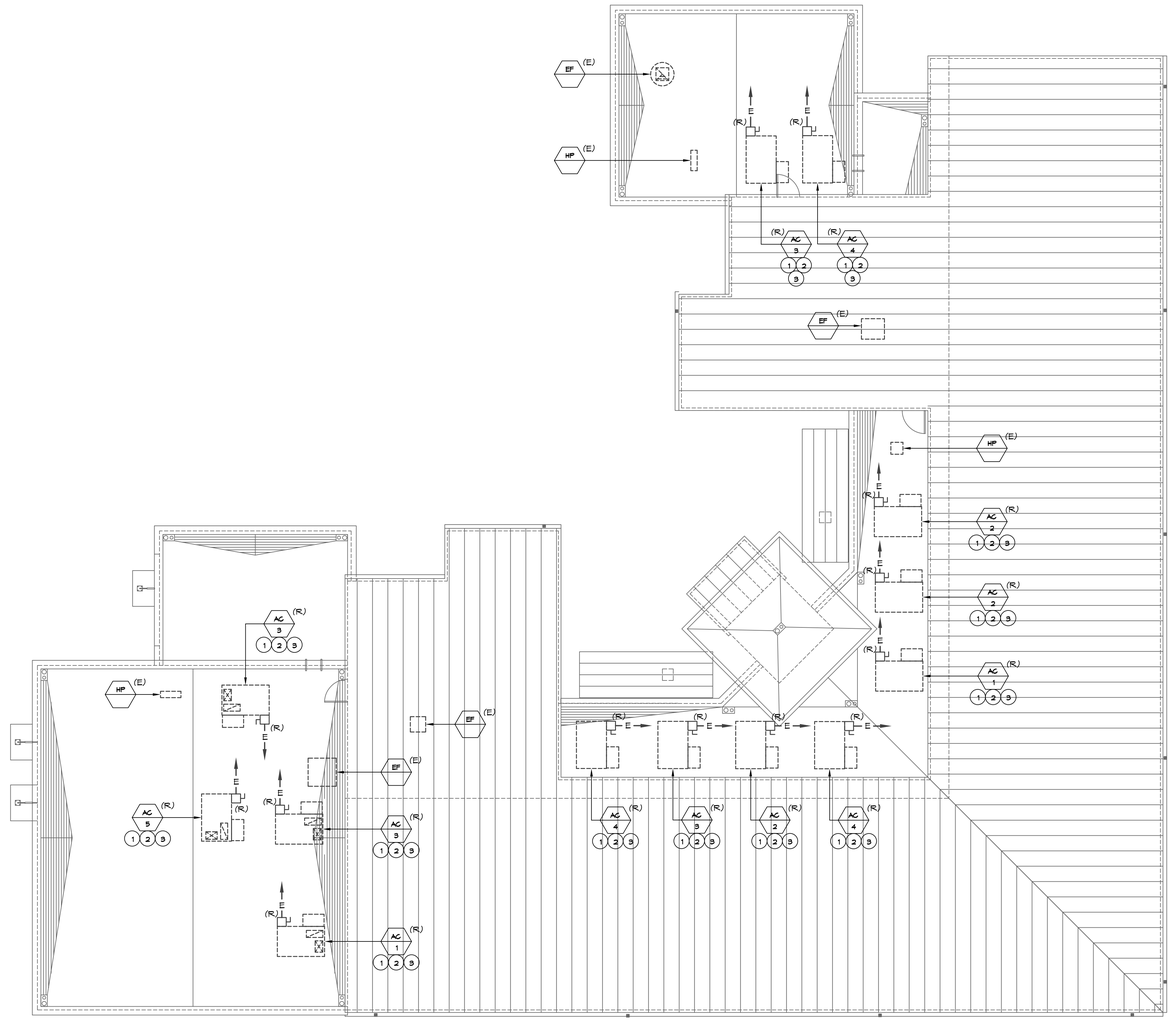
CONSULTANT

STAMP

REGISTERED PROFESSIONAL ENGINEER
ROLAND L. SOLIO
No. E17229
6/30/28
ELECTRICAL
STATE OF CALIFORNIA

SHEET DESCRIPTION:
BUILDING L
SECOND
FLOOR
DEMO. PLAN

SHEET NO:
ED-1.6.1



PLAN NOTES:

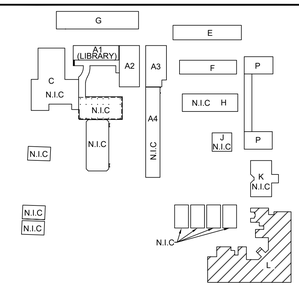
1. CONTRACTOR SHALL REMOVE EXISTING HVAC UNIT AND DISCONNECT SWITCH ONLY. CONTRACTOR SHALL UTILIZE EXISTING CONDUIT AND CONDUCTORS FOR CONNECTION OF NEW HVAC UNIT AND NEW DISCONNECT SWITCH. REFER TO REMODEL PLAN FOR ADDITIONAL REQUIREMENTS.
2. CONTRACTOR SHALL DISCONNECT EXISTING FIRE ALARM CONTROL RELAY AND PROTECT DEVICE AND CABLES / CONDUCTORS FOR RECONNECTION DURING REMODEL WORK. EXISTING CONDUIT, CABLES / CONDUCTORS SHALL BE USED TO ENERGIZE / RECONNECT THE EXISTING FIRE ALARM CONTROL RELAY TO THE EXISTING FIRE ALARM SYSTEM. REFER TO REMODEL PLAN FOR ADDITIONAL REQUIREMENTS.
3. CONTRACTOR SHALL REMOVE EXISTING SOUTHERN CALIFORNIA EDISON (SCE) CYCLING DEVICE AND ASSOCIATED CONDUIT AND CONDUCTORS. CONTRACTOR SHALL TURN OVER REMOVED SOUTHERN CALIFORNIA EDISON (SCE) CYCLING DEVICE TO THE OWNER UPON COMPLETION OF DEMOLITION WORK.

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL NOTE THAT THE DRAWING IS DIAGRAMMATIC. EXACT ROUTING OF EXISTING CONDUITS AND LOCATION OF EXISTING JUNCTION BOXES, DISCONNECT SWITCHES, AND PULL BOXES SHALL BE COORDINATED AND DETERMINED IN THE FIELD.
2. CONTRACTOR SHALL PROVIDE UPDATE PANEL DIRECTORY (TYPED) AT ALL EXISTING DISTRIBUTION BOARDS AND BRACH CIRCUIT PANELS FOR ALL REMOVED AND ADDED HVAC EQUIPMENT.
3. ELECTRICAL CONTRACTOR SHALL DISCONNECT POWER FROM MECHANICAL EQUIPMENT TO BE REMOVED, RELOCATED, RE-USED AND/OR REPLACED AS REQUIRED. CONTRACTOR SHALL RECONNECT POWER TO ALL MECHANICAL EQUIPMENT BEING RE-USED AND/OR RELOCATED AS REQUIRED. REFER TO MECHANICAL DRAWINGS FOR ALL EQUIPMENT TO BE REMOVED, RELOCATED, RE-USED AND/OR REPLACED.
4. ALL CIRCUITS SERVING THE REMODEL AREA, WHETHER IDENTIFIED ON PLAN OR NOT, SHALL BE TRACED AND IDENTIFIED PRIOR TO START OF THE DEMOLITION PHASE. CIRCUITS AFFECTED BY THE REMODEL THAT SERVE AREAS OF THE BUILDING THAT ARE NOT A PART OF THE REMODEL SHALL BE MAINTAINED IN OPERATION DURING THE CONSTRUCTION PHASE. INTERRUPTION OF SERVICE WILL NOT BE ALLOWED.
5. REFER TO GENERAL NOTES AND DEMOLITION NOTES, DRAWING E-0.1, FOR ADDITIONAL REQUIREMENTS.

REF NORTH

DEMOLITION ROOF PLAN | 1/8" = 1'-0" | 1



KEY PLAN | NOT TO SCALE

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-126114 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
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optimum energy design
Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
Telephone (714) 693-2277

STAMP

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL
5260 CLARK STREET
LYNWOOD, CA 90262

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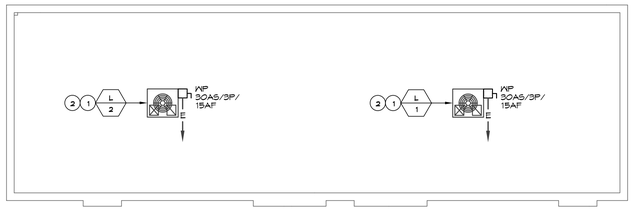
CONSULTANT

STAMP

REGISTERED PROFESSIONAL ENGINEER
ROLAND L. SOTO
No. E17229
6/30/26
ELECTRICAL
STATE OF CALIFORNIA

SHEET DESCRIPTION:
BUILDING L
DEMOLITION
ROOF PLAN

SHEET NO:
ED-1.6.2



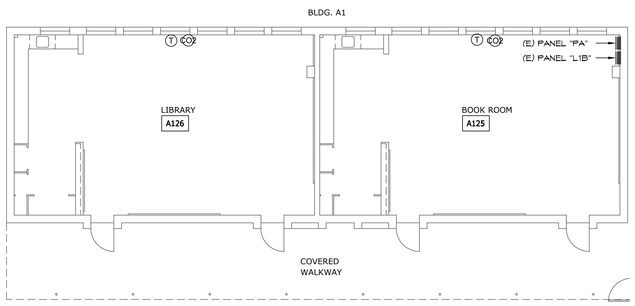
REMODEL ROOF PLAN | 1/8" = 1'-0" | 2

PLAN NOTES:

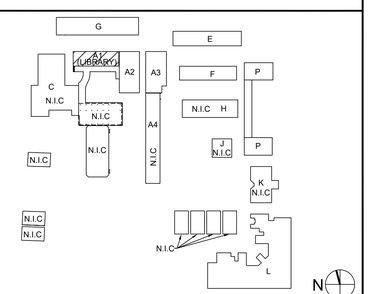
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2. CONTRACTOR SHALL RECONNECT THE EXISTING FIRE ALARM CONTROL RELAY TO THE EXISTING FIRE ALARM SYSTEM. CONTRACTOR SHALL PROVIDE AND EXTEND NEW CONDUIT, CABLES / CONDUCTORS AS REQUIRED TO ENSURE FULLY OPERABLE FIRE ALARM CONTROL RELAY UPON COMPLETION OF RECONNECTION AND REMODEL WORK. IN ADDITION, IF REQUIRED, CONTRACTOR SHALL PROVIDE ALL FIRE ALARM SYSTEM PROGRAMMING IN ORDER TO HAVE A FULLY OPERABLE FIRE ALARM CONTROL RELAY UPON COMPLETION OF WORK. REFER TO DEMOLITION PLAN FOR ADDITIONAL REQUIREMENTS.

CONSTRUCTION NOTES:

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2. CONTRACTOR SHALL PROVIDE UPDATE PANEL DIRECTORY (TYPED) AT ALL EXISTING DISTRIBUTION BOARDS AND BRACH CIRCUIT PANELS WITHIN THE SCOPE OF WORK.
3. SEE SINGLE LINE DIAGRAM, DRAWING E-0.2 FOR CONDUIT SIZE, WIRE SIZE AND QUANTITIES TO BE PROVIDED FOR ALL ELECTRICAL EQUIPMENT.
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5. THE CONTRACTOR SHALL REFER TO THE MECHANICAL AND PLUMBING DRAWINGS FOR EXACT EQUIPMENT LOCATIONS AND ELECTRICAL CONNECTIONS REQUIREMENTS / POINTS OF CONNECTION. CONTRACTOR SHALL PROVIDE ALL POWER AND CONTROL CONNECTIONS AS INDICATED ON THE MECHANICAL AND PLUMBING DRAWINGS.
6. CONTRACTOR SHALL PROVIDE ENGRAVED LABELING AT EACH RECEPTACLE, DATA OUTLET, JUNCTION BOX, DISCONNECT SWITCH, ECT. DISPLAYING THE IDF OR PANEL (WITH CIRCUIT) FEEDING THE DATA OUTLET, RECEPTACLE, JUNCTION BOX, DISCONNECT SWITCH, ECT.
7. REFER TO GENERAL NOTES AND DEMOLITION NOTES, DRAWING E-0.1, FOR ADDITIONAL REQUIREMENTS.



REMODEL FLOOR PLAN | 1/8" = 1'-0" | 1



KEY PLAN | NOT TO SCALE

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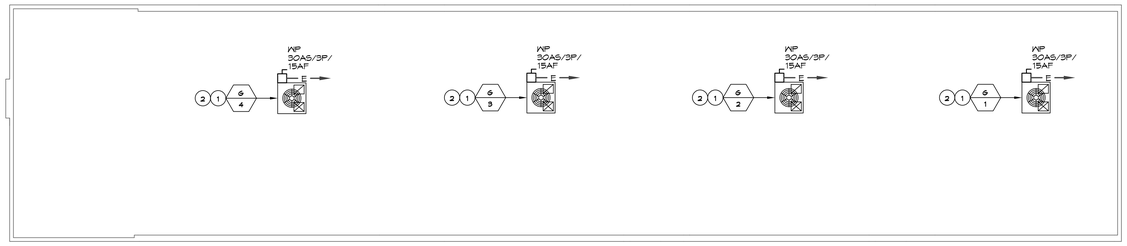
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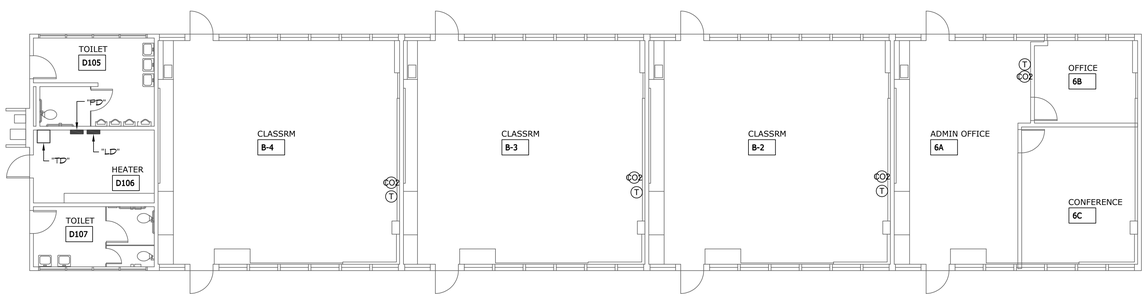
STAMP
REGISTERED PROFESSIONAL ENGINEER
RICARDO L. SOTELO
No. E17229
6/30/28
ELECTRICAL
STATE OF CALIFORNIA

SHEET DESCRIPTION:
BUILDING A1 (LIBRARY) REMODEL PLANS

SHEET NO:
E-1.1



REMODEL ROOF PLAN | 1/8" = 1'-0" | 2



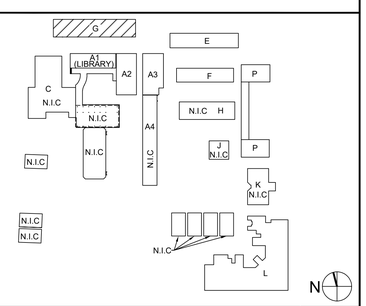
REMODEL FLOOR PLAN | 1/8" = 1'-0" | 1

PLAN NOTES:

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2. CONTRACTOR SHALL RECONNECT THE EXISTING FIRE ALARM CONTROL RELAY TO THE EXISTING FIRE ALARM SYSTEM. CONTRACTOR SHALL PROVIDE AND EXTEND NEW CONDUIT, CABLES / CONDUCTORS AS REQUIRED TO ENSURE FULLY OPERABLE FIRE ALARM CONTROL RELAY UPON COMPLETION OF RECONNECTION AND REMODEL WORK. IN ADDITION, IF REQUIRED, CONTRACTOR SHALL PROVIDE ALL FIRE ALARM SYSTEM PROGRAMMING IN ORDER TO HAVE A FULLY OPERABLE FIRE ALARM CONTROL RELAY UPON COMPLETION OF WORK. REFER TO DEMOLITION PLAN FOR ADDITIONAL REQUIREMENTS.

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2. CONTRACTOR SHALL PROVIDE UPDATE PANEL DIRECTORY (TYPED) AT ALL EXISTING DISTRIBUTION BOARDS AND BRACH CIRCUIT PANELS WITHIN THE SCOPE OF WORK.
3. SEE SINGLE LINE DIAGRAM, DRAWING E-0.2 FOR CONDUIT SIZE, WIRE SIZE AND QUANTITIES TO BE PROVIDED FOR ALL ELECTRICAL EQUIPMENT.
4. ALL CIRCUITS SERVING THE REMODEL AREA, WHETHER IDENTIFIED ON PLAN OR NOT, SHALL BE TRACED AND IDENTIFIED PRIOR TO START OF THE DEMOLITION PHASE. CIRCUITS AFFECTED BY THE REMODEL THAT SERVE AREAS OF THE BUILDING THAT ARE NOT A PART OF THE REMODEL SHALL BE MAINTAINED IN OPERATION DURING THE CONSTRUCTION PHASE. INTERRUPTION OF SERVICE WILL NOT BE ALLOWED.
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KEY PLAN | NOT TO SCALE

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optimum energy design

Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
Telephone (714) 693-2277

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LYNWOOD, CA 90262

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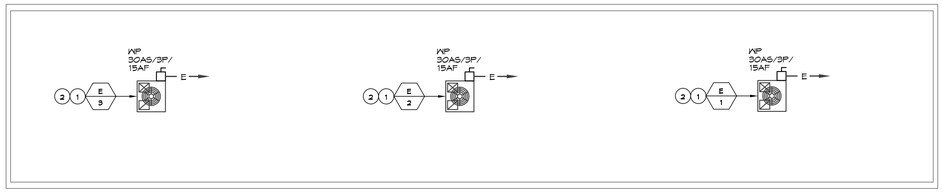
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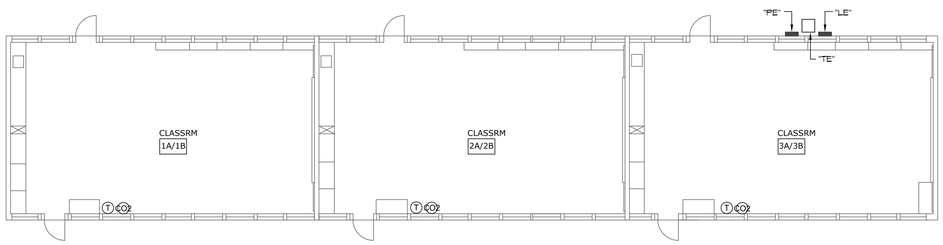
REGISTERED PROFESSIONAL ENGINEER
RICARDO L. SOTELO
No. E17229
6/30/28
ELECTRICAL
STATE OF CALIFORNIA

SHEET DESCRIPTION:
BUILDING G
REMODEL
PLANS

SHEET NO:
E-1.2



REMODEL ROOF PLAN | 1/8" = 1'-0" | 2



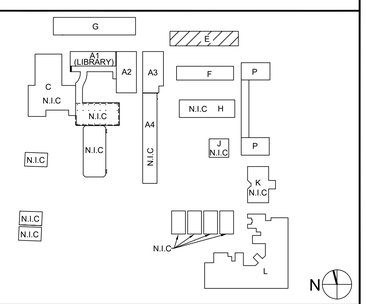
REMODEL FLOOR PLAN | 1/8" = 1'-0" | 1

PLAN NOTES:

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3. SEE SINGLE LINE DIAGRAM, DRAWING E-0.2 FOR CONDUIT SIZE, WIRE SIZE AND QUANTITIES TO BE PROVIDED FOR ALL ELECTRICAL EQUIPMENT.
4. ALL CIRCUITS SERVING THE REMODEL AREA, WHETHER IDENTIFIED ON PLAN OR NOT, SHALL BE TRACED AND IDENTIFIED PRIOR TO START OF THE DEMOLITION PHASE. CIRCUITS AFFECTED BY THE REMODEL THAT SERVE AREAS OF THE BUILDING THAT ARE NOT A PART OF THE REMODEL SHALL BE MAINTAINED IN OPERATION DURING THE CONSTRUCTION PHASE. INTERRUPTION OF SERVICE WILL NOT BE ALLOWED.
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KEY PLAN | NOT TO SCALE

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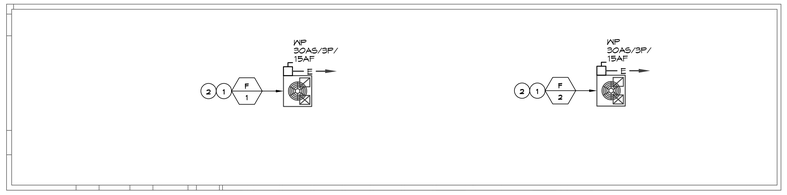
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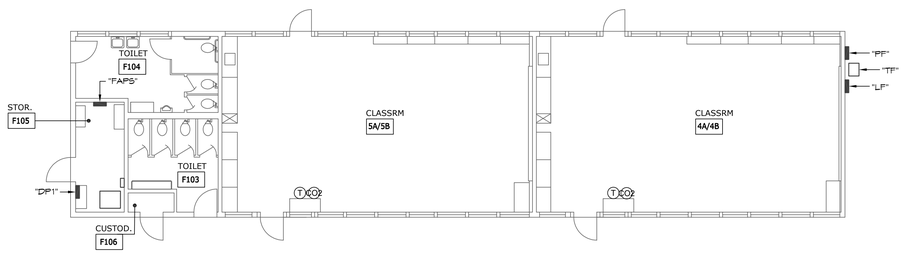
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STATE OF CALIFORNIA

SHEET DESCRIPTION:
BUILDING E
REMODEL
PLANS

SHEET NO:
E-1.3



REMODEL ROOF PLAN | 1/8" = 1'-0" | 2



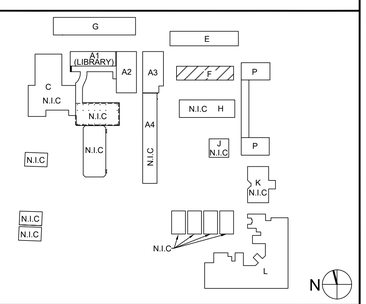
REMODEL FLOOR PLAN | 1/8" = 1'-0" | 1

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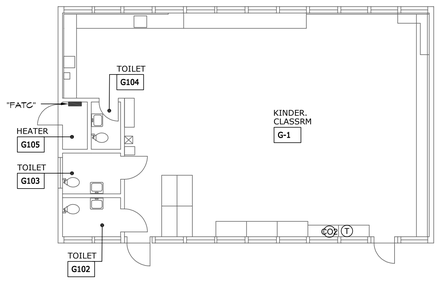
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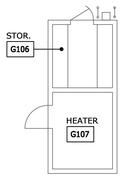
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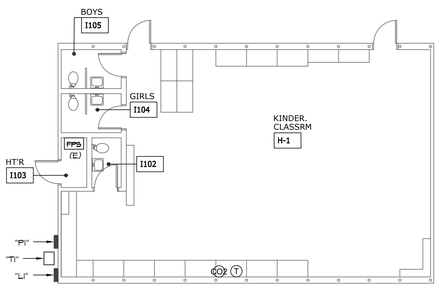
REGISTERED PROFESSIONAL ENGINEER
RICARDO L. SOTELO
No. E17229
6/30/28
ELECTRICAL
STATE OF CALIFORNIA

SHEET DESCRIPTION:
BUILDING F
REMODEL
PLANS

SHEET NO:
E-1.4

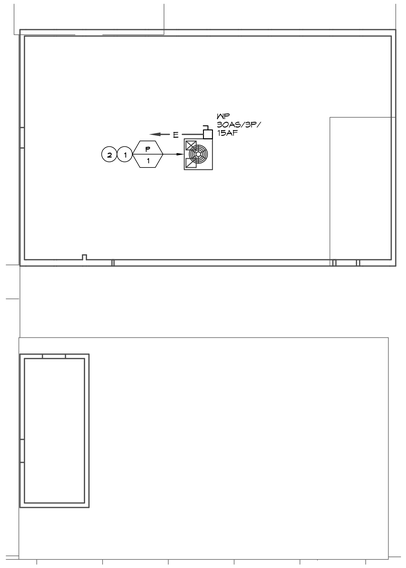


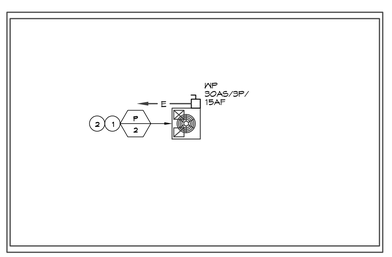




REF. NORTH

REMODEL FLOOR PLAN | 1/8" = 1'-0" | 1





REF. NORTH

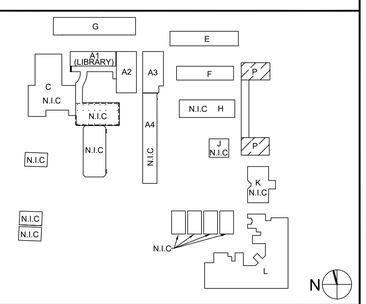
REMODEL ROOF PLAN | 1/8" = 1'-0" | 2

PLAN NOTES:

1. NEW HVAC UNIT AND NEW DISCONNECT SWITCH AT REMOVED HVAC UNIT AND DISCONNECT SWITCH. CONTRACTOR SHALL CONNECT NEW HVAC UNIT TO THE EXISTING CONDUCTORS PREVIOUSLY FEEDING THE REMOVED HVAC UNIT. CONTRACTOR SHALL PROVIDE AND EXTEND NEW CONDUIT / CONDUCTORS AS REQUIRED TO ENSURE A FULLY OPERABLE HVAC UNIT UPON COMPLETION OF INSTALLATION. REFER TO DEMOLITION PLAN FOR ADDITIONAL REQUIREMENTS.
2. CONTRACTOR SHALL RECONNECT THE EXISTING FIRE ALARM CONTROL RELAY TO THE EXISTING FIRE ALARM SYSTEM. CONTRACTOR SHALL PROVIDE AND EXTEND NEW CONDUIT, CABLES / CONDUCTORS AS REQUIRED TO ENSURE FULLY OPERABLE FIRE ALARM CONTROL RELAY UPON COMPLETION OF RECONNECTION AND REMODEL WORK. IN ADDITION, IF REQUIRED, CONTRACTOR SHALL PROVIDE ALL FIRE ALARM SYSTEM PROGRAMMING IN ORDER TO HAVE A FULLY OPERABLE FIRE ALARM CONTROL RELAY UPON COMPLETION OF WORK. REFER TO DEMOLITION PLAN FOR ADDITIONAL REQUIREMENTS.

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL NOTE THAT THE DRAWING IS DIAGRAMMATIC. EXACT ROUTING OF EXISTING CONDUITS AND LOCATION OF EXISTING JUNCTION BOXES, DISCONNECT SWITCHES, AND PULL BOXES SHALL BE COORDINATED AND DETERMINED IN THE FIELD.
2. CONTRACTOR SHALL PROVIDE UPDATE PANEL DIRECTORY (TYPED) AT ALL EXISTING DISTRIBUTION BOARDS AND BRACH CIRCUIT PANELS WITHIN THE SCOPE OF WORK.
3. SEE SINGLE LINE DIAGRAM, DRAWING E-0.2 FOR CONDUIT SIZE, WIRE SIZE AND QUANTITIES TO BE PROVIDED FOR ALL ELECTRICAL EQUIPMENT.
4. ALL CIRCUITS SERVING THE REMODEL AREA, WHETHER IDENTIFIED ON PLAN OR NOT, SHALL BE TRACED AND IDENTIFIED PRIOR TO START OF THE DEMOLITION PHASE. CIRCUITS AFFECTED BY THE REMODEL THAT SERVE AREAS OF THE BUILDING THAT ARE NOT A PART OF THE REMODEL SHALL BE MAINTAINED IN OPERATION DURING THE CONSTRUCTION PHASE. INTERRUPTION OF SERVICE WILL NOT BE ALLOWED.
5. THE CONTRACTOR SHALL REFER TO THE MECHANICAL AND PLUMBING DRAWINGS FOR EXACT EQUIPMENT LOCATIONS AND ELECTRICAL CONNECTIONS REQUIREMENTS / POINTS OF CONNECTION. CONTRACTOR SHALL PROVIDE ALL POWER AND CONTROL CONNECTIONS AS INDICATED ON THE MECHANICAL AND PLUMBING DRAWINGS.
6. CONTRACTOR SHALL PROVIDE ENGRAVED LABELING AT EACH RECEPTACLE, DATA OUTLET, JUNCTION BOX, DISCONNECT SWITCH, ECT DISPLAYING THE IDF OR PANEL (WITH CIRCUIT) FEEDING THE DATA OUTLET, RECEPTACLE, JUNCTION BOX, DISCONNECT SWITCH, ECT.
7. REFER TO GENERAL NOTES AND DEMOLITION NOTES, DRAWING E-0.1, FOR ADDITIONAL REQUIREMENTS.



KEY PLAN | NOT TO SCALE

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-126114 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 09/15/2026

optimum energy design
Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
Telephone (714) 693-2277

STAMP

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL
5260 CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1
2		
3		
4		

JOB NO:	501-26-0032
DATE:	09/04/2026
DRAWN:	MS
CHECK:	LMF
ARCHITECT:	PETRA
ENGINEER:	OED
DSA NUMBER:	03-126114

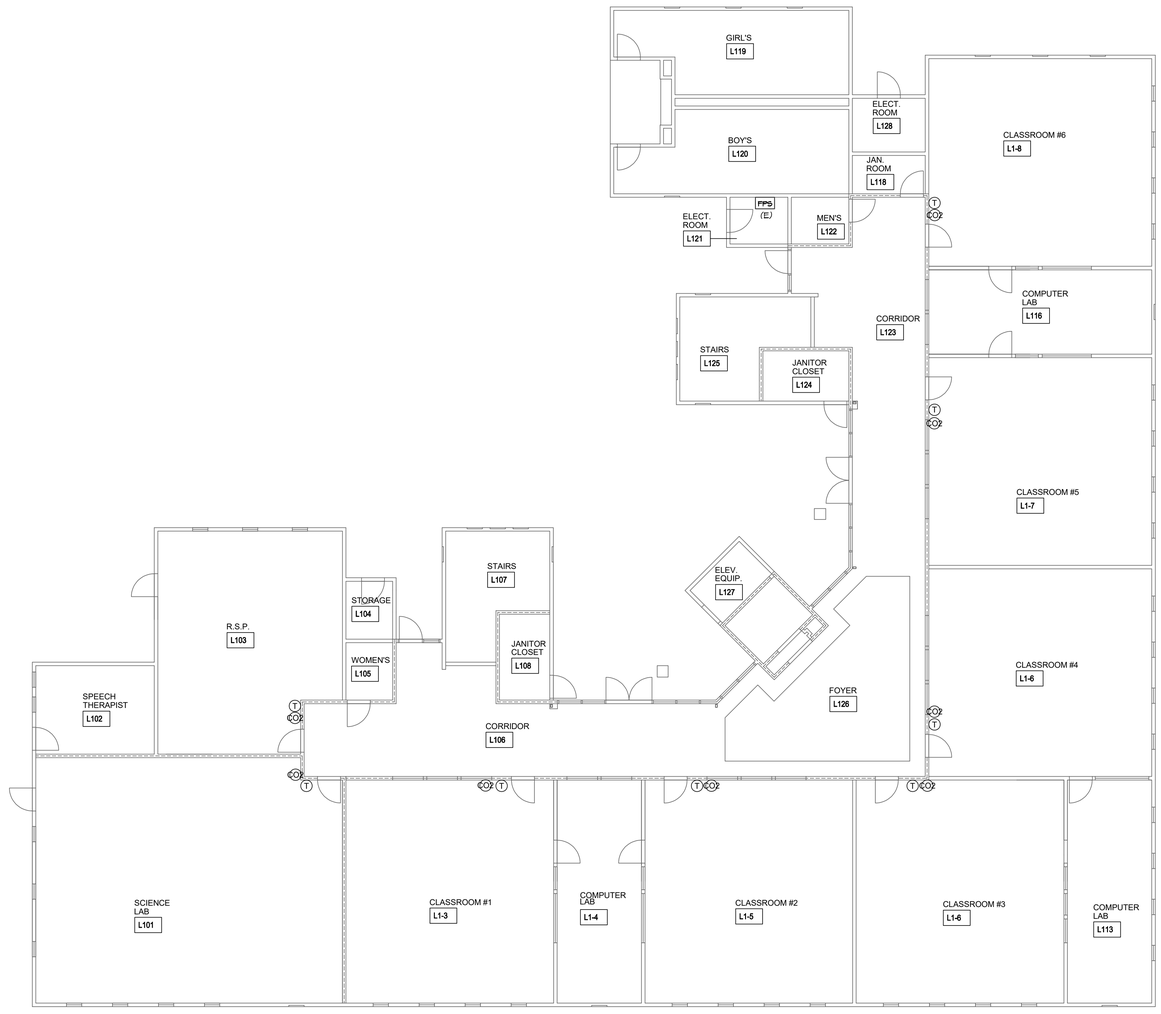
CONSULTANT

STAMP

REGISTERED PROFESSIONAL ENGINEER
RICARDO L. SOTELO
No. E17229
6/30/28
ELECTRICAL
STATE OF CALIFORNIA

SHEET DESCRIPTION:
BUILDING P
REMODEL
PLANS

SHEET NO:
E-1.5

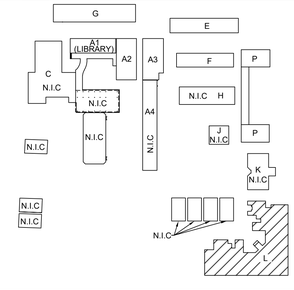


REF. NORTH

REMODEL FIRST FLOOR PLAN | 1/8" = 1'-0" | 1

CONSTRUCTION NOTES:

1. REFER TO GENERAL NOTES AND DEMOLITION NOTES, DRAWING E-0.1, FOR ADDITIONAL REQUIREMENTS.
2. CONTRACTOR SHALL PROVIDE UPDATE PANEL DIRECTORY (TYPED) AT ALL EXISTING DISTRIBUTION BOARDS AND BRACH CIRCUIT PANELS FOR ALL REMOVED AND ADDED HVAC EQUIPMENT.
3. THE CONTRACTOR SHALL NOTE THAT THE DRAWING IS DIAGRAMMATIC. EXACT ROUTING OF NEW CONDUITS AND LOCATION OF JUNCTION BOXES AND PULL BOXES SHALL BE COORDINATED AND DETERMINED IN THE FIELD. NEW CONDUIT, JUNCTION BOXES AND PULL BOXES SHALL BE ROUTED / PLACED IN SUCH A MANNER AS TO ADHERE TO ALL APPLICABLE CODES AND TO AVOID INTERFERENCE WITH EXISTING BUILDING STRUCTURES, UTILITIES AND THE WORK BEING PERFORMED BY OTHER TRADES. ALL EXTERIOR CONDUIT, FITTINGS, JUNCTION BOXES AND PULL BOXES TO BE WEATHER PROOF TYPE; NEMA 3R.
4. CONTRACTOR SHALL PROVIDE ENGRAVED LABELING AT EACH RECEPTACLE, DATA OUTLET, JUNCTION BOX, DISCONNECT SWITCH, ECT. DISPLAYING THE IDF OR PANEL (WITH CIRCUIT) FEEDING THE DATA OUTLET, RECEPTACLE, JUNCTION BOX, DISCONNECT SWITCH, ECT.
5. ALL CIRCUITS SERVING THE REMODEL AREA, WHETHER IDENTIFIED ON PLAN OR NOT, SHALL BE TRACED AND IDENTIFIED PRIOR TO START OF THE DEMOLITION PHASE. CIRCUITS AFFECTED BY THE REMODEL THAT SERVE AREAS OF THE BUILDING THAT ARE NOT A PART OF THE REMODEL SHALL BE MAINTAINED IN OPERATION DURING THE CONSTRUCTION PHASE. INTERRUPTION OF SERVICE WILL NOT BE ALLOWED.
6. THE CONTRACTOR SHALL REFER TO THE MECHANICAL AND PLUMBING DRAWINGS FOR EXACT EQUIPMENT LOCATIONS AND ELECTRICAL CONNECTIONS REQUIREMENTS / POINTS OF CONNECTION. CONTRACTOR SHALL PROVIDE ALL CONDUIT PATHWAYS, POWER AND CONTROL CONNECTIONS AS INDICATED ON THE MECHANICAL AND PLUMBING DRAWINGS.



KEY PLAN | NOT TO SCALE

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optimum energy design
Consulting Engineers
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LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1
2		
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DSA NUMBER:	03-126114

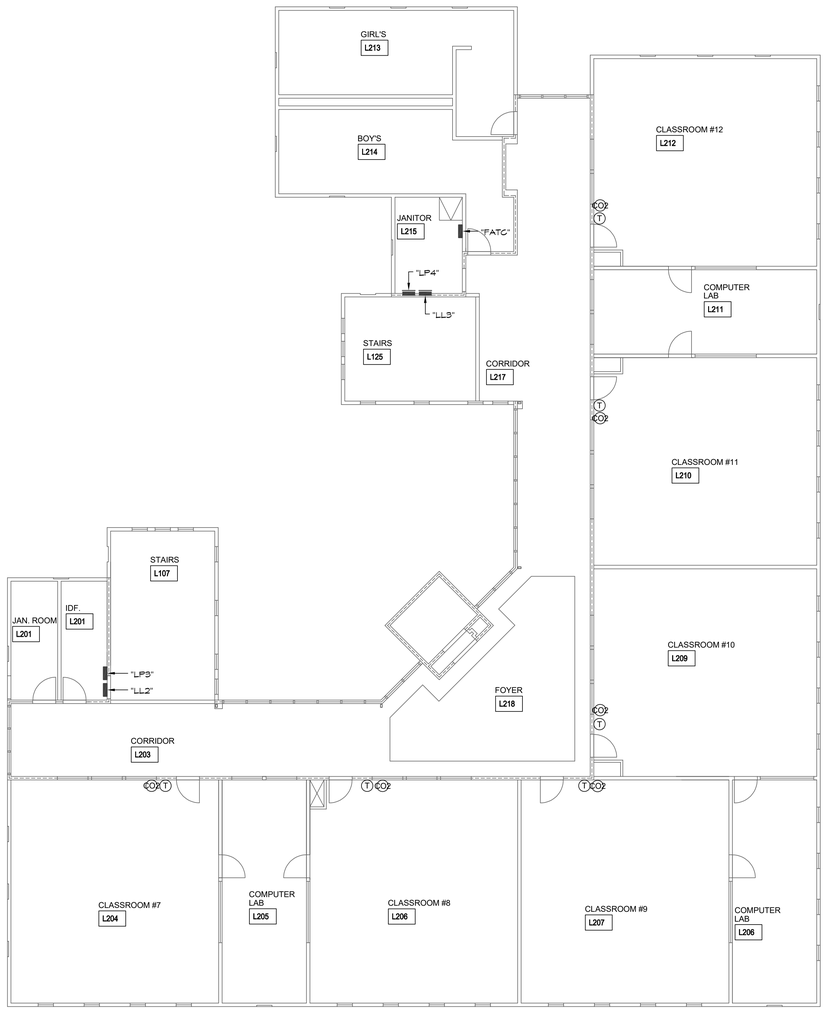
CONSULTANT

STAMP

REGISTERED PROFESSIONAL ENGINEER
ORLANDO E. SOTELO
No. E17229
6/30/26
ELECTRICAL
STATE OF CALIFORNIA

SHEET DESCRIPTION:
BUILDING L
FIRST FLOOR
REMODEL
PLAN

SHEET NO:
E-1.6

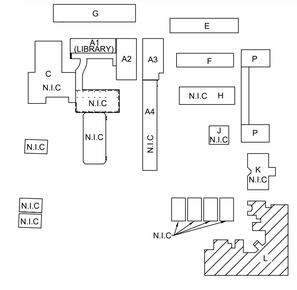


CONSTRUCTION NOTES:

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REF. NORTH

REMODEL SECOND FLOOR PLAN | 1/8" = 1'-0" | 1



KEY PLAN | NOT TO SCALE

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optimum energy design

Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
Telephone (714) 693-2277

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5260 CLARK STREET
LYNWOOD, CA 90262

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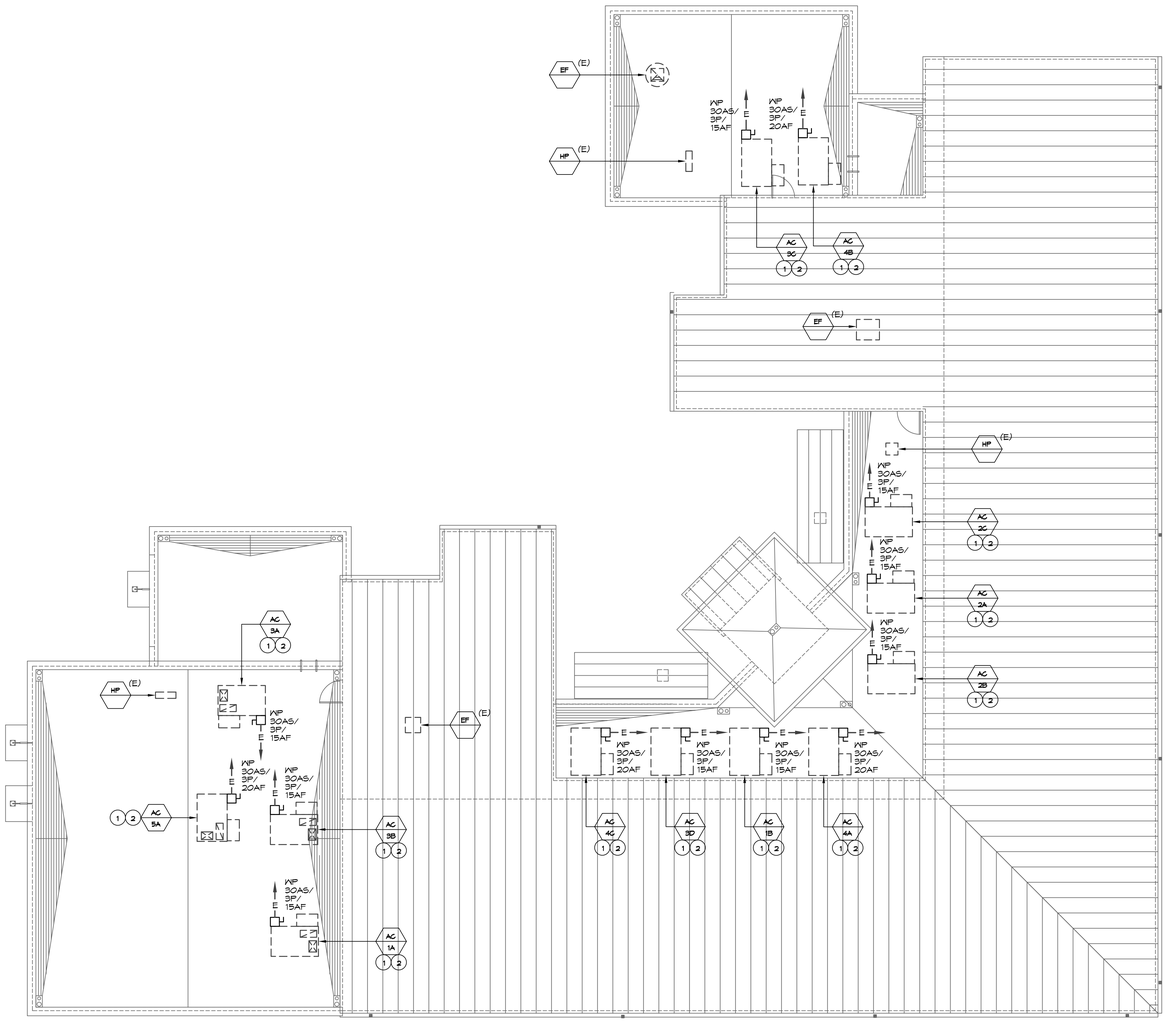
CONSULTANT

STAMP

REGISTERED PROFESSIONAL ENGINEER
RICARDO E. SOTELO
No. E17229
6/30/28
ELECTRICAL
STATE OF CALIFORNIA

SHEET DESCRIPTION:
BUILDING L
SECOND
FLOOR
REMODEL PLAN

SHEET NO:
E-1.6.1



PLAN NOTES:

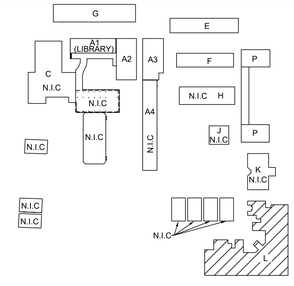
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CONSTRUCTION NOTES:

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3. SEE SINGLE LINE DIAGRAM, DRAWING E-0.2 FOR CONDUIT SIZE, WIRE SIZE AND QUANTITIES TO BE PROVIDED FOR ALL ELECTRICAL EQUIPMENT.
4. ALL CIRCUITS SERVING THE REMODEL AREA, WHETHER IDENTIFIED ON PLAN OR NOT, SHALL BE TRACED AND IDENTIFIED PRIOR TO START OF THE DEMOLITION PHASE. CIRCUITS AFFECTED BY THE REMODEL THAT SERVE AREAS OF THE BUILDING THAT ARE NOT A PART OF THE REMODEL SHALL BE MAINTAINED IN OPERATION DURING THE CONSTRUCTION PHASE. INTERRUPTION OF SERVICE WILL NOT BE ALLOWED.
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7. REFER TO GENERAL NOTES AND DEMOLITION NOTES, DRAWING E-0.1, FOR ADDITIONAL REQUIREMENTS.

REF NORTH

REMODEL ROOF PLAN | 1/8" = 1'-0" | 1



KEY PLAN | NOT TO SCALE

AGENCY APPROVAL

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SS ☑ FLS ☑ ACS ☐
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optimum energy design
Consulting Engineers
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Telephone (714) 693-2277

STAMP

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL
5260 CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1

JOB NO:	501-26-0032
DATE:	09/04/2026
DRAWN:	MS
CHECK:	LMF
ARCHITECT:	PETRA
ENGINEER:	OED
DSA NUMBER:	03-126114

CONSULTANT

STAMP

REGISTERED PROFESSIONAL ENGINEER
RICARDO E. SOLIS
No. E17229
6/30/28
ELECTRICAL
STATE OF CALIFORNIA

SHEET DESCRIPTION:
BUILDING L
REMODEL
ROOF PLAN

SHEET NO:
E-1.6.2

MEP COMPONENT ANCHORAGE NOTE

All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA-approved construction documents. The following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2025 CBC Sections 1617A.1.18 through 1617A.1.26 and ASCE 7-22 Chapters 13, 26, and 30:

1. All permanent equipment and components.
2. Temporary, movable or mobile equipment that is permanently attached (e.g. hard wired) to the building utility services such as electricity, gas or water. "Permanently attached" shall include all electrical connections except plugs for 110/220 volt receptacles having a flexible cable.
3. Temporary, movable or mobile equipment which is heavier than 400 pounds or has a center of mass located 4 feet or more above the adjacent floor or roof level that directly support the component is required to be restrained in a manner approved 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 transverse 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 or structural engineer delegated responsibility and acceptance by DSA. The project inspector will verify that all components and equipment have been anchored in accordance with the above requirements.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

MEP Distribution System Bracing Note for Piping, Ductwork, and Electrical Conduit:

Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7 Section 13.3 as defined in ASCE 7 Sections 13.6.5, 13.6.6, 13.6.7, 13.6.8; and 2025 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. The MEP design professional engineer responsible for content on these sheets has verified that the design methods identified below are in accordance with DSA IR 16-13.

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

MP ☐ MD ☐ PP ☒ E ☐ Option 1: Project-Specific Design.

MP ☐ MD ☐ PP ☐ E ☐ Option 2: Design Based on OSHPD OPM, Within Project Submittal

MP ☐ MD ☐ PP ☐ E ☐ Option 3: Design Based on OSHPD OPM, Deferred Submittal

APPLICABLE CODES

BUILDING OCCUPANCY CLASSIFICATION: -

THE CONSTRUCTION OF THIS PROJECT SHALL CONFORM TO THE REQUIREMENTS OF:

CODES

2025 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR
2025 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
2025 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
2025 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
2025 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
2025 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2025 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
2025 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
2025 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2025 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY EXACT LOCATION OF EXISTING LINES, LATERALS AND WYES BEFORE STARTING. SHOULD IT BE NECESSARY TO REROUTE LINES DUE TO CONDITIONS FOUND ON THE SITE OR IF INDICATED P.O.C. CANNOT BE MADE TO THE LINES AS FOUND, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT BEFORE INSTALLING ANY WORK WHICH MAY BE AFFECTED.
2. OFFSET PIPES AS REQUIRED TO CLEAR MECHANICAL DUCTWORK.
3. SEAL AND FLASH ALL PENETRATIONS THROUGH ROOF WATERTIGHT.
4. REFER TO MECHANICAL DRAWINGS FOR THE EXACT LOCATION OF ALL A.C. UNITS.
5. UNLESS OTHERWISE NOTED, ALL CONDENSATE DROPS SHALL BE CONCEALED IN WALLS.
6. THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC TO THE EXTENT THAT ALL OFFSETS, BENDS, SPECIAL FITTINGS AND LOCATIONS ARE NOT EXACTLY LOCATED. THE CONTRACTOR SHALL LOCATE ALL OFFSETS, BENDS, AND SPECIAL FITTINGS TO SUIT JOB SITE CONDITIONS. THEREFORE THE CONTRACTOR SHALL MAKE HIMSELF FULLY AWARE OF ALL EXISTING CONDITIONS AND LOCATE ALL REQUIRED SPECIAL FITTINGS TO SUIT EXISTING CONDITIONS.
7. THIS CONTRACTOR SHALL COMPLY WITH ALL CONTRACT DOCUMENTS IN LAYING OUT HIS WORK AND EQUIPMENT. HE SHALL COORDINATE THE WORK OF THIS SECTION WITH THE WORK OF OTHER TRADES AND ALL JOB CONDITIONS.
8. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, CHARGES, AND INCIDENTAL COSTS NECESSARY FOR EXECUTION AND COMPLETION OF WORK, INCLUDING ALL CHARGES BY STATE, COUNTY AND LOCAL GOVERNMENT AGENCIES.
9. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL TRADES AT THE SITE. ANY COSTS TO INSTALL WORK TO ACCOMPLISH SAID COORDINATION WHICH DIFFERS FROM THE WORK AS SHOWN ON THE PLANS SHALL BE INCURRED BY THE CONTRACTOR. ANY DISCREPANCIES, AMBIGUITIES OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT DURING BID TIME FOR CLARIFICATION. ANY SUCH CONFLICTS NOT CLARIFIED PRIOR TO BID SHALL BE SUBJECT TO THE INTERPRETATION OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
10. AFTER ALL REQUIREMENTS OF THE SPECIFICATIONS AND/OR THE DRAWINGS HAVE BEEN FULLY COMPLETED, REPRESENTATIVES OF THE OWNER WILL INSPECT THE WORK. THE CONTRACTOR SHALL PROVIDE COMPETENT PERSONNEL TO DEMONSTRATE THE OPERATION OF ANY ITEM OR SYSTEM, TO THE FULL SATISFACTION OF EACH REPRESENTATIVE. FINAL ACCEPTANCE OF THE WORK WILL BE MADE BY THE OWNER AFTER RECEIPT OF APPROVAL AND RECOMMENDATION OF ACCEPTANCE FROM EACH REPRESENTATIVE.
11. WHEREVER A DISCREPANCY IN QUANTITY OR SIZE OF MECHANICAL EQUIPMENT MATERIAL ARISES ON THE DRAWINGS AND/OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AND SERVICES REQUIRED BY THE STRICTEST CONDITIONS NOTED ON DRAWINGS AND/OR IN THE SPECIFICATION TO ENSURE COMPLETE AND OPERABLE SYSTEMS.
12. ALL PIPING INSULATION AND SEALING MATERIALS SHALL HAVE FLAME SPREAD RATING NOT EXCEEDING 25 AND SMOKE DEVELOPED RATING NOT EXCEEDING 50.
13. BEFORE ORDERING ANY PIECE OF EQUIPMENT, THE CONTRACTOR SHALL PROVIDE EQUIPMENT SUBMITTALS, AND SHOP DRAWINGS WITH EQUIPMENT DIMENSIONS, AND SITE CLEARANCE AVAILABLE. WHERE REQUIRED BY SPACE LIMITATIONS HAVE UNITS SHIPPED IN SECTIONS.
14. ALL PIPE BRANCH CONNECTIONS SHALL OFF-SET: NO "BULL HEAD" CONNECTIONS WILL BE ALLOWED.
15. ALL EXISTING PLUMBING LINES SHOWN ARE TAKEN FROM EXISTING DRAWINGS WHICH INDICATE APPROXIMATE LOCATION ONLY. THE CONTRACTOR IS TO INCLUDE IN HIS BID TO PERFORM FIELD INVESTIGATION TO PIN POINT THE EXACT LOCATION AS REQUIRED FOR DEMOLITION OR MAKING NEW CONNECTION.
16. INTERRUPTION OF EXISTING SERVICES: THE CONTRACTOR'S ATTENTION IS CALLED TO THE PRESENCE OF EXISTING, CONDUIT, PIPING, ETC. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE PROPER AND APPROVED REPAIR OF ANY AND ALL DAMAGE BY HIM OR HIS CAUSED WORK TO EXISTING BUILDINGS, CONDUIT, PIPING, PLANTS, ETC. NEW WORK AND INSTALLATIONS SHALL BE MADE WITH MINIMAL INTERRUPTIONS OF SERVICES TO EXISTING BUILDINGS ANY INTERRUPTIONS REQUIRED SHALL BE SCHEDULED TO MINIMIZE INCONVENIENCE TO THE OWNER, AND AT TIMES AS APPROVED IN ADVANCE BY THE ARCHITECT. NEW WORK AND INSTALLATIONS SHALL NOT IMPAIR THE PROPER FUNCTIONING OF THE EXISTING FACILITY. THE COMPLETED PROJECT SHALL BE A PROPERLY FUNCTIONING ENTITY THROUGHOUT. FURNISH ALL LABOR AND MATERIALS REQUIRED TO RELOCATE, REMOVE, REINSTALL, RECONNECT, REPLACE, ETC., ANY EXISTING PIPING TO ACCOMMODATE THE WORK. MATERIALS SHALL BE AS SPECIFIED UNLESS OTHERWISE APPROVED IN WRITING BY THE ARCHITECT. CONTRACTOR SHALL INCLUDE IN HIS BID ANY EXTRA WORK REQUIRED TO MINIMIZE SHUTDOWN TIME.
17. WHERE EQUIPMENT IS NOTED AND/OR SHOWN TO BE REMOVED AND/OR RELOCATED, THIS REMOVAL AND/OR RELOCATION SHALL INCLUDE ALL PIPING, SUPPORT, TRIM, ETC. CONSIDERED TO BE A FUNCTIONING PART OF THE ITEM.
18. ALL EXISTING PIPING AND EQUIPMENT THAT IS REMOVED SHALL BE DISPOSED OF AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
19. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY, AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT.
20. CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING WALLS, FLOORS AND CEILING OPENED DURING CONSTRUCTION TO MATCH EXISTING.
21. ALL UTILITIES BEING REMOVED FOR THE PROJECT SHALL BE REMOVED BACK TO ITS SOURCE.
22. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DISTRICT STRUCTURAL ENGINEER FROM THE DIVISION OF THE STATE ARCHITECT.
23. ALL PIPING AND RELATED VALVES AND FITTINGS TO BE DEMOLISHED SHALL BE DISPOSED AND REMOVED FROM THE PROJECT SITE.
24. ALL PIPING SHOWN TO BE DEMOLISHED AND/OR REMOVED SHALL BE CAPPED OFF AT THE POINT OF DEMOLITION AND CLEAR FROM INTERFERENCE FROM NEW WORK BEING INSTALLED.
25. ANY DISCREPANCIES ARISE BETWEEN THE PLUMBING DRAWINGS AND OTHER DISCIPLINES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID AND CONSTRUCTION.
26. PROVIDE INSULATION FOR ALL CONDENSATE DRAIN INDOOR.
27. ALL CONDENSATE DRAIN PIPING SHALL SLOPE 1/8"/FT. MINIMUM.

LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	CW	COLD WATER
CD	CD	CONDENSATE DRAIN
OCD	OCD	OVERFLOW CONDENSATE DRAIN
TP	TP	TRAP PRIMER
G	G	GAS LINE
		DIRECTION OF FLOW
	SOV	SHUT-OFF VALVE
	SOV/GC	SHUT-OFF VALVE OR GAS COCK IN YARD BOX
	GC	GAS COCK
	BV	BALANCING VALVE
	FCO	FLOOR CLEANOUT
	WCO	CLEANOUT
		RISER UP
		RISER DOWN
	ABV	ABOVE
	BEL	BELOW
	CLG	CEILING
	CONT	CONTINUATION
	DN	DOWN
	EXIST	EXISTING
	FLR	FLOOR
	POC	POINT OF CONNECTION
#		DEMOLITION KEYNOTE
#		REMODEL KEYNOTE
		POINT OF DISCONNECT
	RT	REFRIGERANT TONNAGE

PIPE MATERIAL SCHEDULE

SERVICE	ABBR:		MATERIAL: SEAMLESS COPPER TUBING, TYPE L, DRAWN TEMPER, ASTM B88	CPVC SCH 80 PAINTED WITH UV PROTECTION	COPPER TYPE M 95/5 SOLDER	BLACK STEEL SCH 40	REMARKS
CONDENSATE DRAIN	(CD)	INDOOR			●		GRAVITY @ 1% SLOPE MIN. PROVIDE INSULATION FOR INDOOR PIPING. PAINTED W/ UV INHIBITOR FOR EXPOSED OUTDOOR PIPE.
		OUTDOOR			●		
GAS	(G)					●	

SHEET INDEX

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4	PD-1.3	PLUMBING DEMO PLANS - BUILDING E
5	PD-1.4	PLUMBING DEMO PLANS - BUILDING F
6	PD-1.5	PLUMBING DEMO PLANS - BUILDING P
7	PD-1.6	PLUMBING DEMO FIRST FLOOR PLAN - BUILDING L
8	PD-1.6.1	PLUMBING DEMO SECOND FLOOR PLAN - BUILDING L
9	PD-1.6.2	PLUMBING DEMO ROOF PLAN - BUILDING L
10	P-1.1	PLUMBING REMODEL PLANS - BUILDING A1 (LIBRARY)
11	P-1.2	PLUMBING REMODEL PLANS - BUILDING G
12	P-1.3	PLUMBING REMODEL PLANS - BUILDING E
13	P-1.4	PLUMBING REMODEL PLANS - BUILDING F
14	P-1.5	PLUMBING REMODEL PLANS - BUILDING P
15	P-1.6	PLUMBING REMODEL FIRST FLOOR PLAN - BUILDING L
16	P-1.6.1	PLUMBING REMODEL SECOND FLOOR PLAN - BUILDING L
17	P-1.6.2	PLUMBING REMODEL ROOF PLAN - BUILDING L
18	P-4.1	PLUMBING DETAILS

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-126114 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 09/15/2026

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REGISTERED PROFESSIONAL ENGINEER
JEFFREY BAKEMEYER
No. M25253
Exp. 6/30/27
MECHANICAL
STATE OF CALIFORNIA

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL
5260 CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1
2		
3		
4		

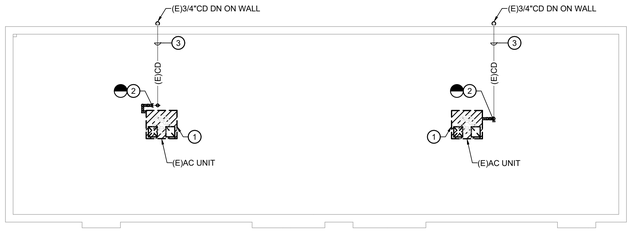
JOB NO: 501-26-0032
DATE: 09/04/2026
DRAWN: JE
CHECK: HA
ARCHITECT: PETRA
ENGINEER: OED
DSA NUMBER: 03-126114

CONSULTANT

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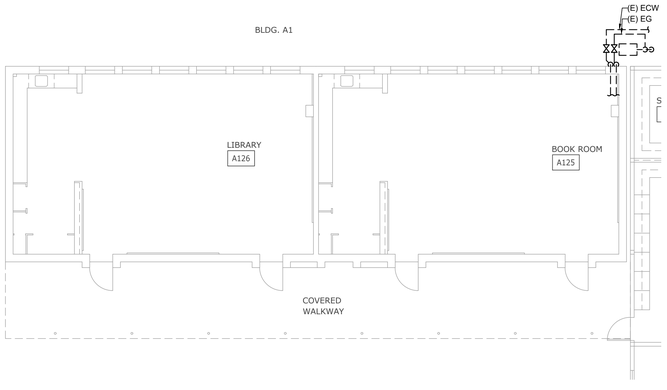
SHEET DESCRIPTION:
PLUMBING GENERAL NOTES & LEGEND

SHEET NO:
P-0.1



REF. NORTH
N

PLUMBING DEMOLITION ROOF PLAN - BUILDING A1 (LIBRARY) | 1/8" = 1'-0" | 2

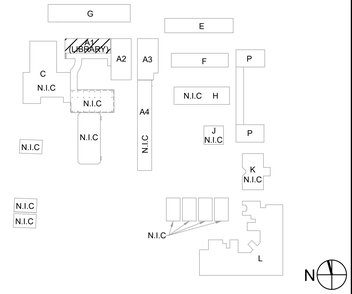


REF. NORTH
N

PLUMBING DEMOLITION FLOOR PLAN - BUILDING A1 (LIBRARY) | 1/8" = 1'-0" | 1

DEMOLITION KEYNOTES:

1. (E) MECHANICAL UNIT TO BE REMOVED.
2. (E) CONDENSATE DRAIN WITH VENTED P-TRAP TO BE REMOVED. CAP EXISTING CONDENSATE PIPING AT UNIT.
3. EXISTING 3/4"CD PIPING ON ROOF TO REMAIN.



KEY PLAN | NOT TO SCALE

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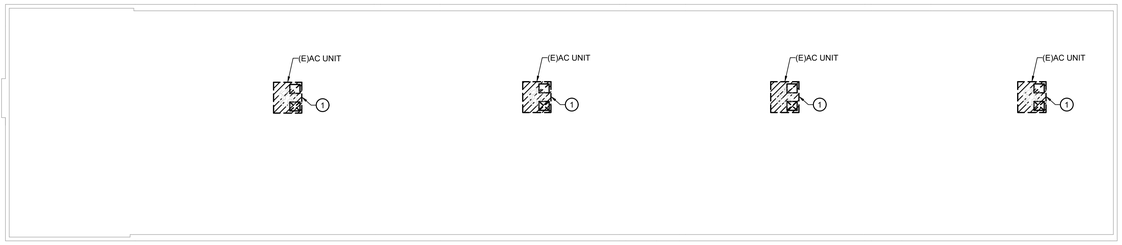
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DSA NUMBER:	03-126114

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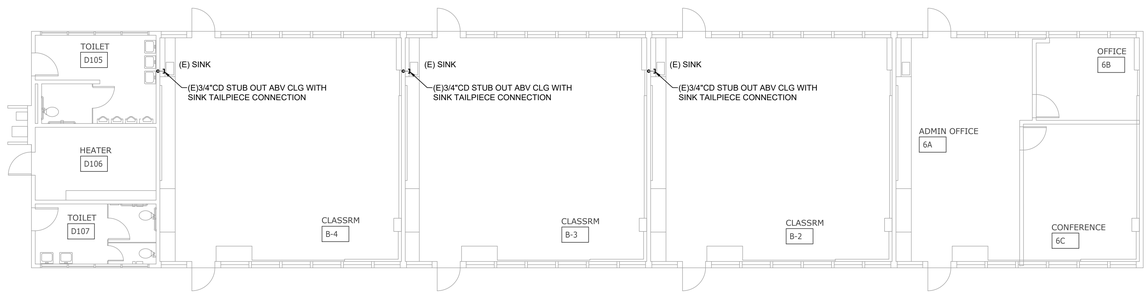
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PLUMBING DEMO PLANS - BUILDING A1 (LIBRARY)

SHEET NO:
PD-1.1



REF. NORTH
N

PLUMBING DEMOLITION ROOF PLAN - BUILDING G | 1/8" = 1'-0" | 2

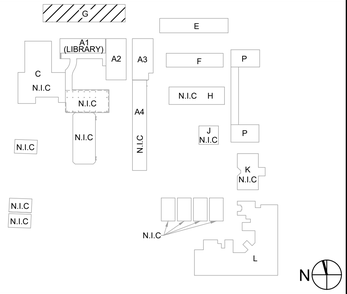


REF. NORTH
N

PLUMBING DEMOLITION FLOOR PLAN - BUILDING G | 1/8" = 1'-0" | 1

DEMOLITION KEYNOTES:

1 (E) MECHANICAL UNIT TO BE REMOVED.



KEY PLAN | NOT TO SCALE

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REGISTERED PROFESSIONAL ENGINEER
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No. M29253
Exp. 6/30/27
MECHANICAL
STATE OF CALIFORNIA

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL
5260 CLARK STREET
LYNWOOD, CA 90262

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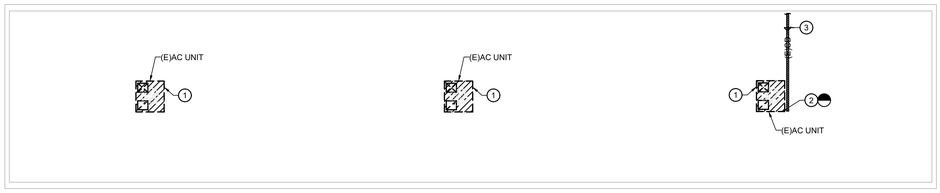
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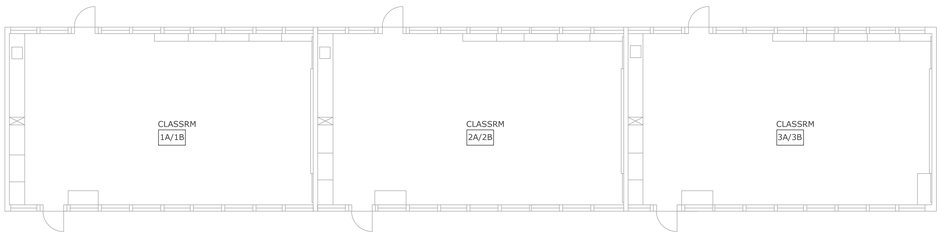
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SHEET NO:
PD-1.2



N REF. NORTH

PLUMBING DEMOLITION ROOF PLAN - BUILDING E | 1/8" = 1'-0" | 2

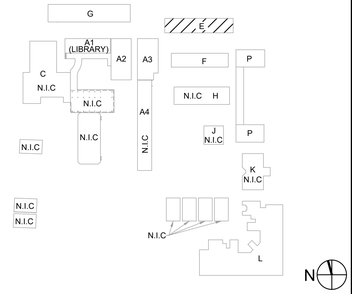


N REF. NORTH

PLUMBING DEMOLITION FLOOR PLAN - BUILDING E | 1/8" = 1'-0" | 1

DEMOLITION KEYNOTES:

1. (E) MECHANICAL UNIT TO BE REMOVED.
2. (E) CONDENSATE DRAIN WITH VENTED P-TRAP AND RELATED PIPING TO BE REMOVED.
3. EXISTING 3/4"CD PIPING TO BE REMOVED FROM ROOF.



KEY PLAN | NOT TO SCALE

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REGISTERED PROFESSIONAL ENGINEER
ROBERT BAKEMEYER
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STATE OF CALIFORNIA

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL
5260 CLARK STREET
LYNWOOD, CA 90262

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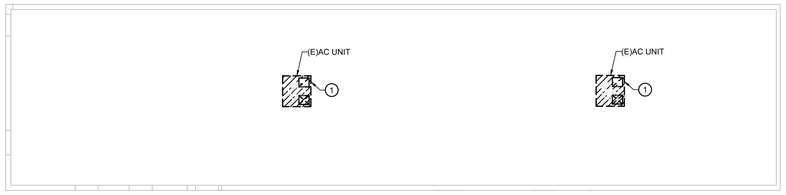
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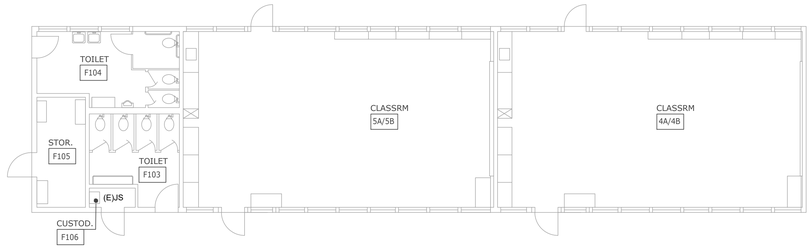
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PD-1.3



REF. NORTH
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PLUMBING DEMOLITION ROOF PLAN - BUILDING F | 1/8" = 1'-0" | 2

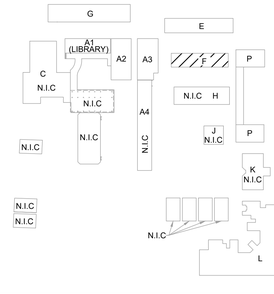


REF. NORTH
N

PLUMBING DEMOLITION FLOOR PLAN - BUILDING F | 1/8" = 1'-0" | 1

DEMOLITION KEYNOTES:

1 (E) MECHANICAL UNIT TO BE REMOVED.



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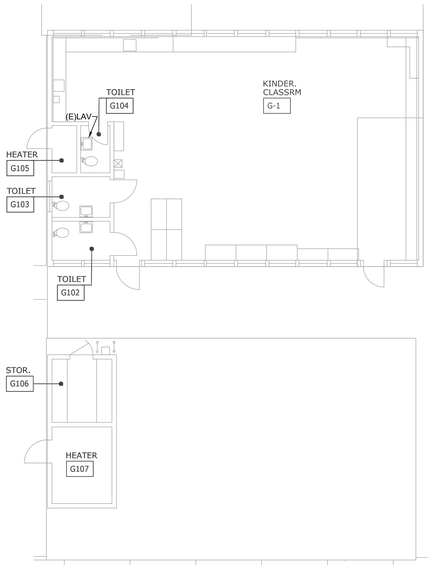
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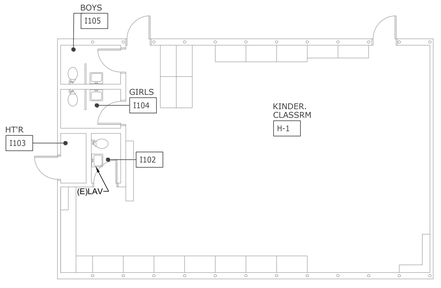
CONSULTANT

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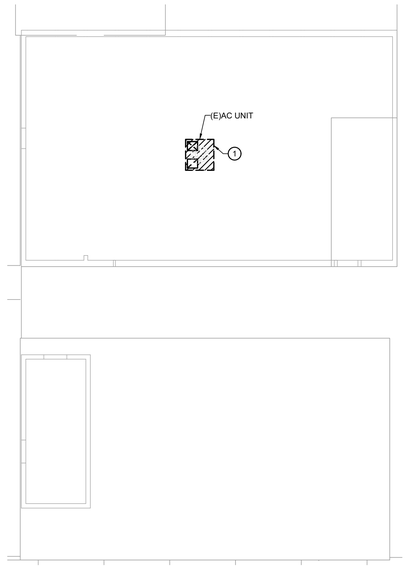
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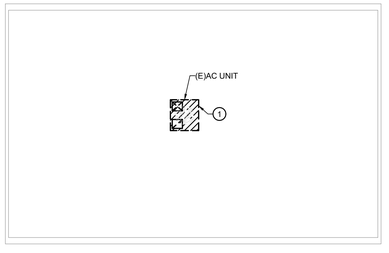
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PD-1.4





PLUMBING DEMOLITION FLOOR PLAN - BUILDING P | 1/8" = 1'-0" | 1

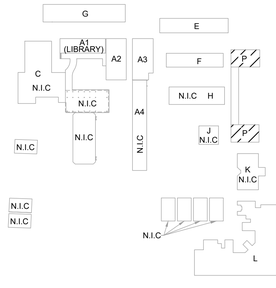




PLUMBING DEMOLITION ROOF PLAN - BUILDING P | 1/8" = 1'-0" | 2

DEMOLITION KEYNOTES:

1 (E) MECHANICAL UNIT TO BE REMOVED.



KEY PLAN | NOT TO SCALE

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HEATHER ANN BARRETT
No. M29253
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STATE OF CALIFORNIA

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5260 CLARK STREET
LYNWOOD, CA 90262

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ARCHITECT:	PETRA
ENGINEER:	OED
DSA NUMBER:	03-126114

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SHEET DESCRIPTION:
PLUMBING DEMOLITION PLANS - BUILDING P

SHEET NO:
PD-1.5

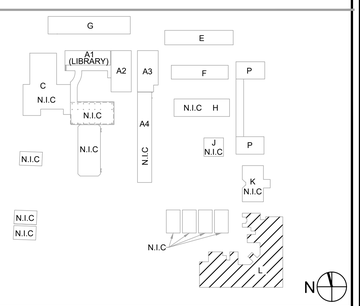


REF. NORTH

PLUMBING DEMOLITION FIRST FLOOR PLAN - BUILDING L

1/8" = 1'-0"

1



KEY PLAN

NOT TO SCALE

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ROBERT BAKEMEYER
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Exp. 6/30/27
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5260 CLARK STREET
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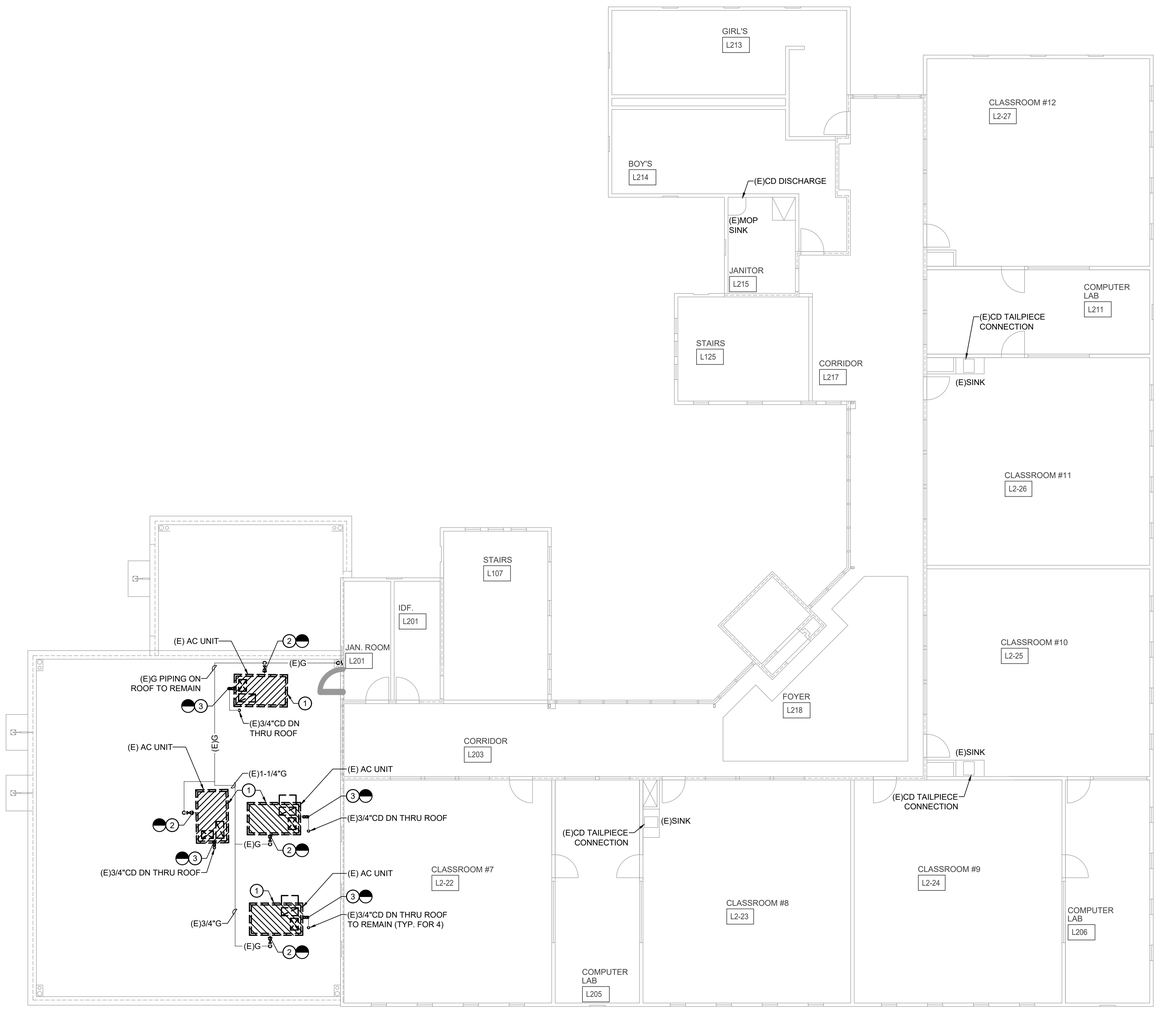
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ARCHITECT:	PETRA
ENGINEER:	OED
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SHEET DESCRIPTION:
PLUMBING DEMO FIRST FLOOR PLAN - BUILDING L

SHEET NO:
PD-1.6



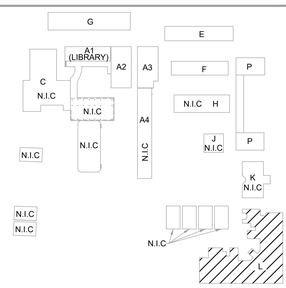
DEMOLITION KEYNOTES:

1. (E) MECHANICAL UNIT TO BE REMOVED AND REPLACED.
2. (E) GAS FLEX LINE TO MECH. UNIT TO BE REMOVED. CAP EXISTING GAS PIPING AT UNIT.
3. (E) CONDENSATE DRAIN WITH VENTED P-TRAP TO BE REMOVED. CAP EXISTING CONDENSATE AT UNIT.

REF. NORTH

N

PLUMBING DEMOLITION SECOND FLOOR PLAN - BUILDING L | 1/8" = 1'-0" | 1



KEY PLAN | NOT TO SCALE

N

AGENCY APPROVAL

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3		
4		

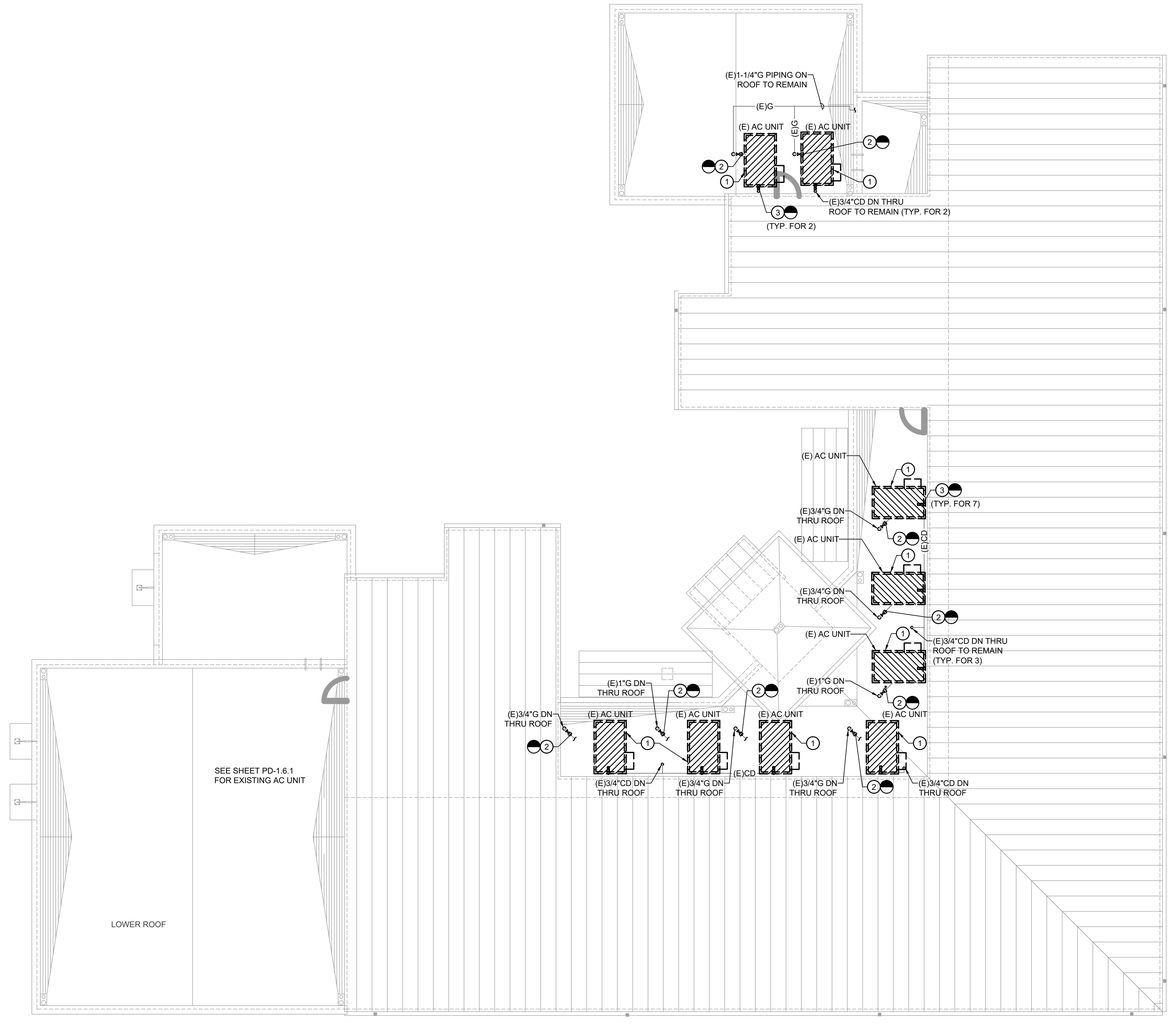
JOB NO:	501-26-0032
DATE:	09/04/2026
DRAWN:	JE
CHECK:	HA
ARCHITECT:	PETRA
ENGINEER:	OED
DSA NUMBER:	03-126114

CONSULTANT

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SHEET DESCRIPTION:
PLUMBING DEMO SECOND FLOOR PLAN - BUILDING L

SHEET NO:
PD-1.6.1

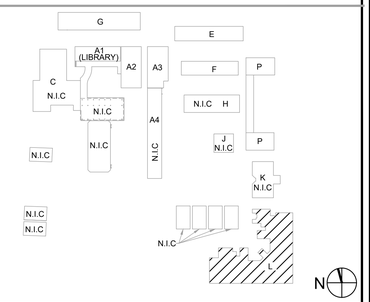


DEMOLITION KEYNOTES:

1. (E) MECHANICAL UNIT TO BE REMOVED AND REPLACED.
2. (E) GAS FLEX LINE TO MECH. UNIT TO BE REMOVED. CAP EXISTING GAS PIPING AT UNIT.
3. (E) CONDENSATE DRAIN WITH VENTED P-TRAP TO BE REMOVED. CAP EXISTING CONDENSATE AT UNIT.

REF. NORTH

PLUMBING DEMOLITION ROOF PLAN - BUILDING L | 1/8" = 1'-0" | 1



KEY PLAN | NOT TO SCALE

AGENCY APPROVAL

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DIV. OF THE STATE ARCHITECT
APP: 03-126114 INC:
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DATE: 09/15/2026

optimum energy design
Consulting Engineers
5200 E. La Palma Ave
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Telephone (714) 693-2277

STAMP

REGISTERED PROFESSIONAL ENGINEER
No. M29253
Exp. 6/30/27
MECHANICAL
STATE OF CALIFORNIA

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL
5260 CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1

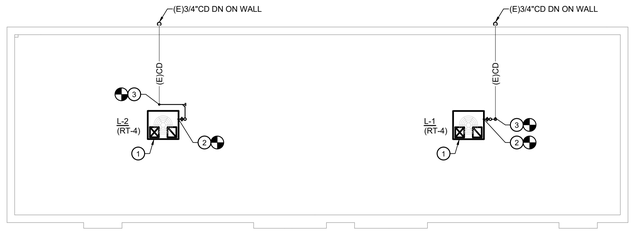
JOB NO:	501-26-0032
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DSA NUMBER:	03-126114

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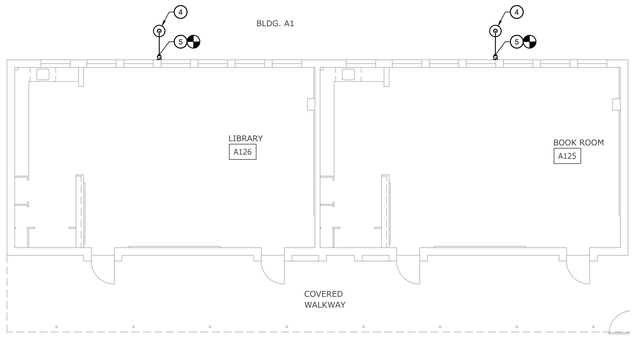
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PLUMBING DEMO ROOF PLAN - BUILDING L

SHEET NO:
PD-1.6.2



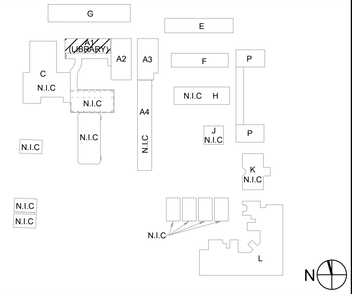
REF. NORTH
N

PLUMBING REMODEL ROOF PLAN - BUILDING A1 (LIBRARY) | 1/8" = 1'-0" | 2



REF. NORTH
N

PLUMBING REMODEL FLOOR PLAN - BUILDING A1 (LIBRARY) | 1/8" = 1'-0" | 1



KEY PLAN | NOT TO SCALE

CONSTRUCTION GENERAL NOTES:

1. COORDINATE WITH OTHER TRADES PRIOR TO MAKING ANY ROOF OPENINGS.
2. ALL EQUIPMENT, PIPING AND MATERIALS SHALL BE LISTED.
3. PROVIDE UV INHIBITOR COATING FOR EXPOSED OUTDOOR PIPING.

CONSTRUCTION KEYNOTES:

1. NEW MECHANICAL UNIT. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION.
2. CONNECT NEW 3/4"CD PLUG & VENTED P-TRAP. SEE SHEET P-4.1 DETAIL NUMBER 1. SLOPE CONDENSATE DRAIN @ 1%.
3. CONNECT NEW 3/4"CD AT EXISTING 3/4"CD ABV ROOF.
4. DRYWELL BEL GRADE. SEE SHEET P-4.1 DETAIL 6.
5. CONNECT NEW 3/4"CD TO EXISTING CONDENSATE DRAIN ON WALL AND ROUTE BEL GRADE TO NEW DRYWELL.

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REGISTERED PROFESSIONAL ENGINEER
ROBERT BAKER
No. M29253
Exp. 6/30/27
MECHANICAL
STATE OF CALIFORNIA

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL
5260 CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1
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3		
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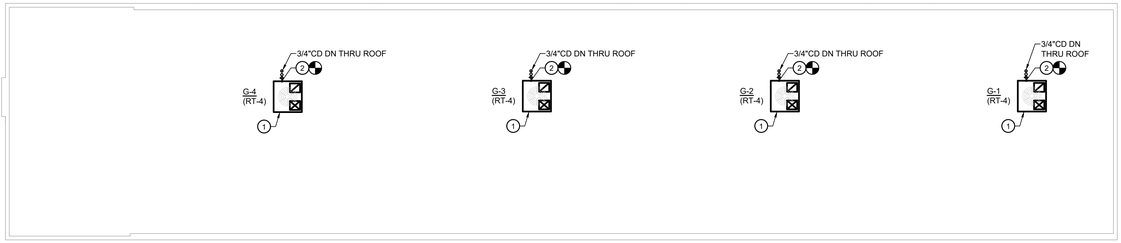
JOB NO:	501-26-0032
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ARCHITECT:	PETRA
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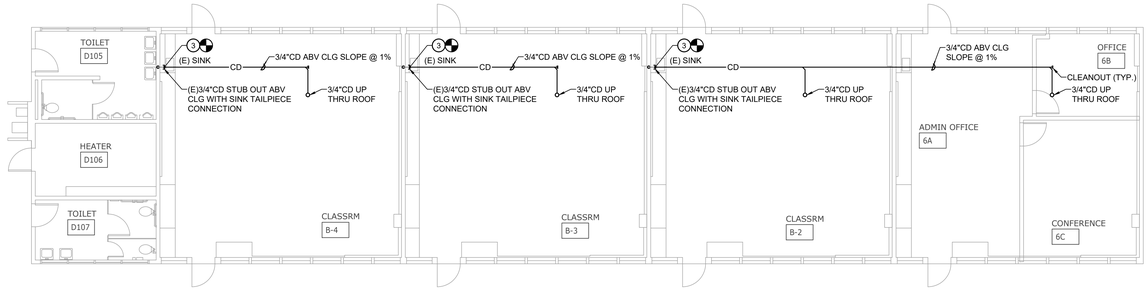
SHEET DESCRIPTION:
PLUMBINGL REMODEL PLANS - BUILDING A1 (LIBRARY)

SHEET NO:
P-1.1



REF. NORTH

PLUMBING REMODEL ROOF PLAN - BUILDING G | 1/8" = 1'-0" | 2



REF. NORTH

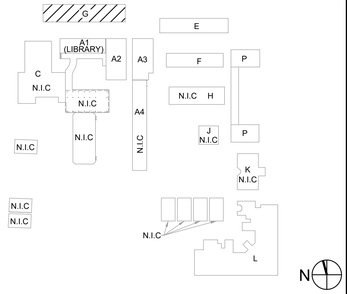
PLUMBING REMODEL FLOOR PLAN - BUILDING G | 1/8" = 1'-0" | 1

CONSTRUCTION GENERAL NOTES:

1. COORDINATE WITH OTHER TRADES PRIOR TO MAKING ANY ROOF OPENINGS.
2. FIELD VERIFY EXISTING INDOOR CONDENSATE DRAIN IS INSULATED AND DISCHARGES TO AN APPROVED RECEPTOR WITH A 1-1/2" AIR GAP MINIMUM.
3. ALL EQUIPMENT, PIPING AND MATERIALS SHALL BE LISTED.
4. PROVIDE UV INHIBITOR COATING FOR EXPOSED OUTDOOR PIPING.

CONSTRUCTION KEYNOTES:

1. NEW MECHANICAL UNIT. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION.
2. CONNECT NEW 3/4"CD PLUG & VENTED P-TRAP. SEE SHEET P-4.1 DETAIL NUMBER 1. SLOPE CONDENSATE DRAIN @ 1%.
3. CONNECT NEW 3/4"CD TO EXISTING CD STUB OUT ON WALL ABV CLG.



KEY PLAN | NOT TO SCALE

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REGISTERED PROFESSIONAL ENGINEER
ROBERT BAKEMEYER
No. M29253
Exp. 6/30/27
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STATE OF CALIFORNIA

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL
5260 CLARK STREET
LYNWOOD, CA 90262

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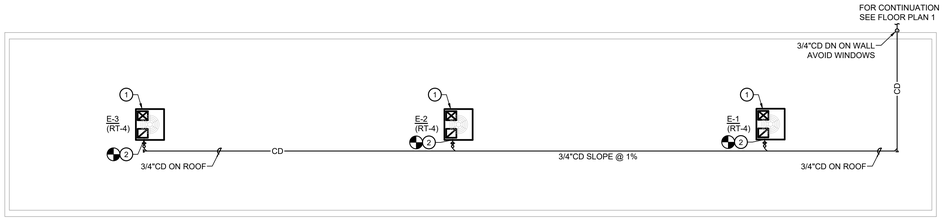
JOB NO:	501-26-0032
DATE:	09/04/2026
DRAWN:	JE
CHECK:	HA
ARCHITECT:	PETRA
ENGINEER:	OED
DSA NUMBER:	03-126114

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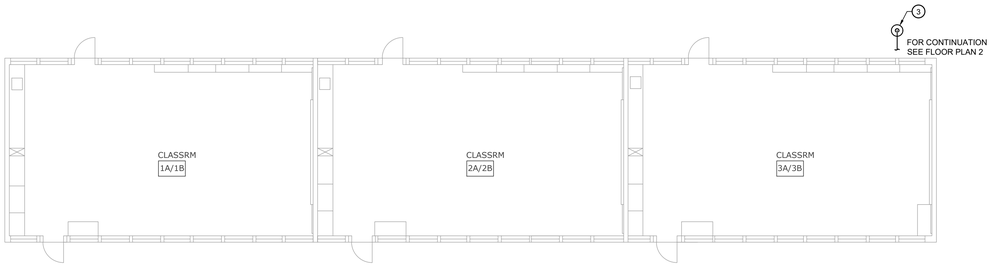
SHEET DESCRIPTION:
PLUMBING REMODEL PLANS - BUILDING G

SHEET NO:
P-1.2



REF. NORTH

PLUMBING REMODEL ROOF PLAN - BUILDING E | 1/8" = 1'-0" | 2



REF. NORTH

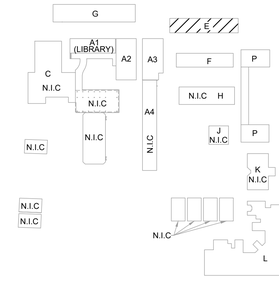
PLUMBING REMODEL FLOOR PLAN - BUILDING E | 1/8" = 1'-0" | 1

CONSTRUCTION GENERAL NOTES:

1. COORDINATE WITH OTHER TRADES PRIOR TO MAKING ANY ROOF OPENINGS.
2. ALL EQUIPMENT, PIPING AND MATERIALS SHALL BE LISTED.
3. PROVIDE UV INHIBITOR COATING FOR EXPOSED OUTDOOR PIPING.

CONSTRUCTION KEYNOTES:

1. NEW MECHANICAL UNIT. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION.
2. CONNECT NEW 3/4"CD PLUG & VENTED P-TRAP. SEE SHEET P-4.1 DETAIL NUMBER 1. SLOPE CONDENSATE DRAIN @ 1%.
3. DRYWELL BEL GRADE. SEE SHEET P-4.1 DETAIL 6.



KEY PLAN | NOT TO SCALE

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Telephone (714) 693-2277

STAMP

REGISTERED PROFESSIONAL ENGINEER
No. M29253
Exp. 6/30/27
MECHANICAL
STATE OF CALIFORNIA

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL
5260 CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1

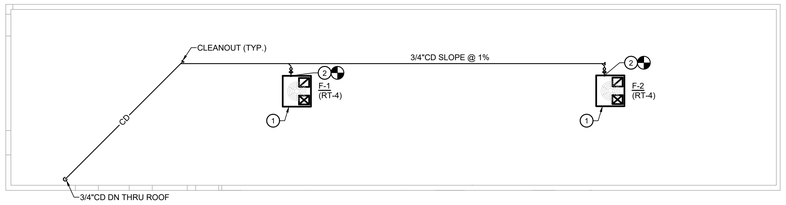
JOB NO:	501-26-0032
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ARCHITECT:	PETRA
ENGINEER:	OED
DSA NUMBER:	03-126114

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SHEET DESCRIPTION:
PLUMBING REMODEL PLANS - BUILDING E

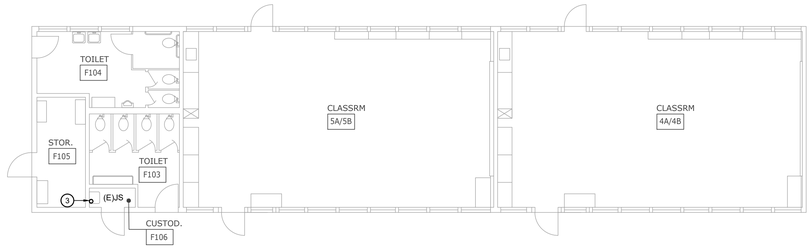
SHEET NO:
P-1.3



REF. NORTH

N

PLUMBING REMODEL ROOF PLAN - BUILDING F | 1/8" = 1'-0" | 2



REF. NORTH

N

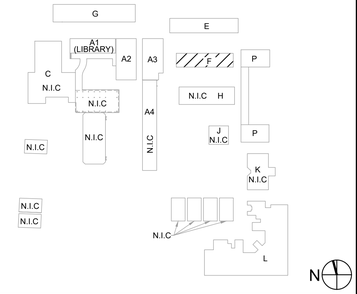
PLUMBING REMODEL FLOOR PLAN - BUILDING F | 1/8" = 1'-0" | 1

CONSTRUCTION GENERAL NOTES:

1. COORDINATE WITH OTHER TRADES PRIOR TO MAKING ANY ROOF OPENINGS.
2. FIELD VERIFY EXISTING INDOOR CONDENSATE DRAIN IS INSULATED AND DISCHARGES TO AN APPROVED RECEPTOR WITH A 1-1/2" AIR GAP MINIMUM
3. ALL EQUIPMENT, PIPING AND MATERIALS SHALL BE LISTED.
4. PROVIDE UV INHIBITOR COATING FOR EXPOSED OUTDOOR PIPING.

CONSTRUCTION KEYNOTES:

1. NEW MECHANICAL UNIT. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION.
2. CONNECT NEW 3/4"CD PLUG & VENTED P-TRAP. SEE SHEET P-4.1 DETAIL NUMBER 1. SLOPE CONDENSATE DRAIN @ 1%.
3. 3/4"CD SPILL OVER EXISTING JANITOR SINK W/ 1-1/2" AIR GAP MINIMUM.



N

KEY PLAN | NOT TO SCALE

AGENCY APPROVAL

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Telephone (714) 693-2277

STAMP

REGISTERED PROFESSIONAL ENGINEER
No. M29253
Exp. 6/30/27
MECHANICAL
STATE OF CALIFORNIA

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL
5260 CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
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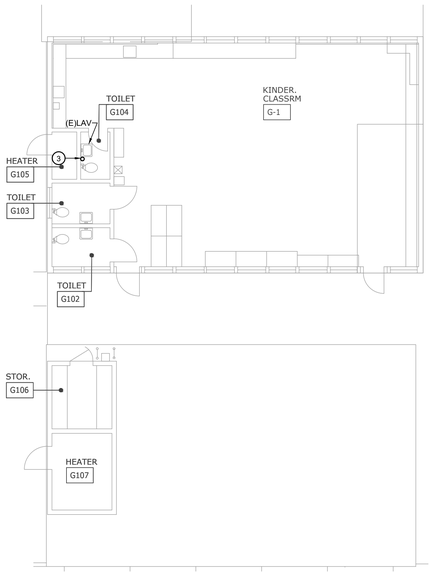
JOB NO:	501-26-0032
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DRAWN:	JE
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ARCHITECT:	PETRA
ENGINEER:	OED
DSA NUMBER:	03-126114

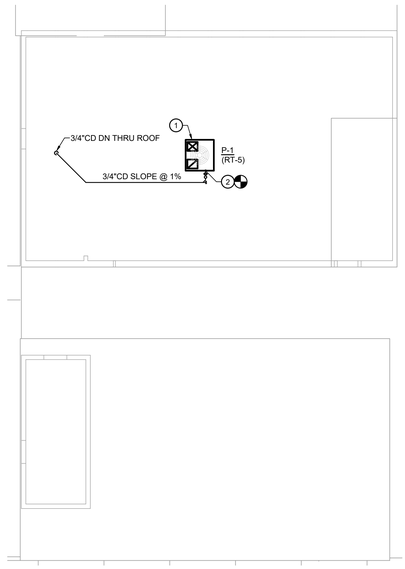
CONSULTANT

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SHEET DESCRIPTION:
PLUMBING REMODEL PLANS - BUILDING F

SHEET NO:
P-1.4



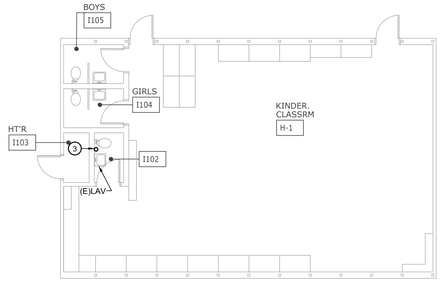


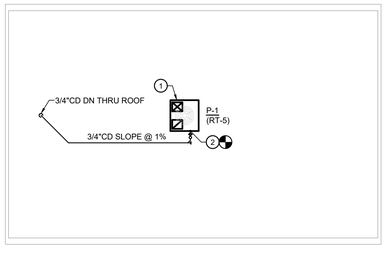
CONSTRUCTION GENERAL NOTES:

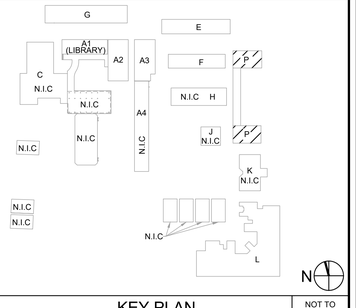
1. COORDINATE WITH OTHER TRADES PRIOR TO MAKING ANY ROOF OPENINGS.
2. FIELD VERIFY EXISTING INDOOR CONDENSATE DRAIN IS INSULATED AND DISCHARGES TO AN APPROVED RECEPTOR WITH A 1-1/2" AIR GAP MINIMUM
3. ALL EQUIPMENT, PIPING AND MATERIALS SHALL BE LISTED.
4. PROVIDE UV INHIBITOR COATING FOR EXPOSED OUTDOOR PIPING.

CONSTRUCTION KEYNOTES:

1. NEW MECHANICAL UNIT. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION.
2. CONNECT NEW 3/4"CD PLUG & VENTED P-TRAP. SEE SHEET P-4.1 DETAIL NUMBER 1. SLOPE CONDENSATE DRAIN @ 1%.
3. 3/4"CD DN ON WALL. CONNECT TO LAVATORY SINK TAILPIECE.







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REGISTERED PROFESSIONAL ENGINEER
ROBERT BAKEMEYER
No. M29253
Exp. 6/30/27
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STATE OF CALIFORNIA

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL
5260 CLARK STREET
LYNWOOD, CA 90262

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SHEET DESCRIPTION:
PLUMBING REMODEL PLANS - BUILDING P

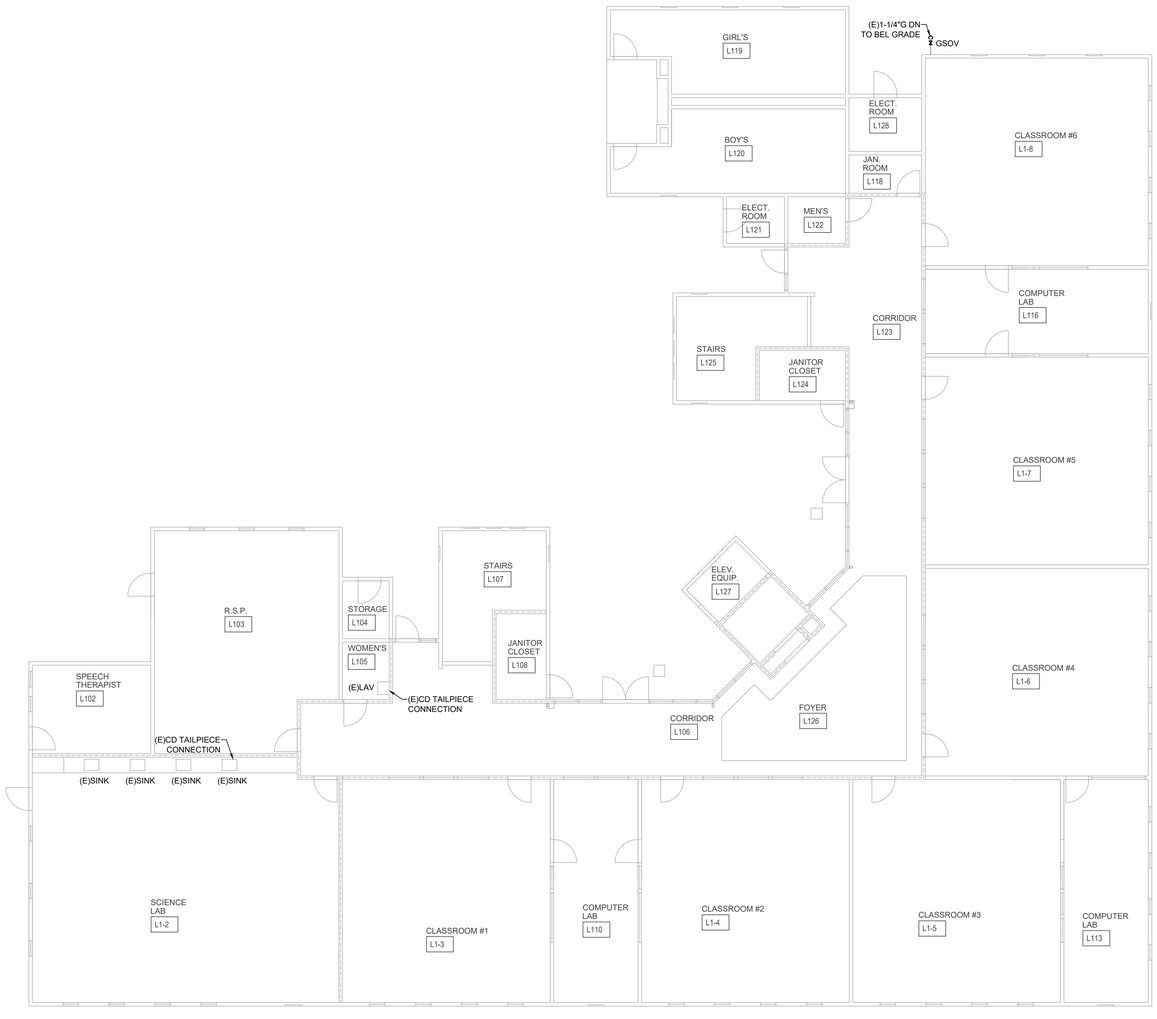
SHEET NO:
P-1.5

REF. NORTH

PLUMBING REMODEL FLOOR PLAN - BUILDING P | 1/8" = 1'-0" | 1

PLUMBING REMODEL ROOF PLAN - BUILDING P | 1/8" = 1'-0" | 2

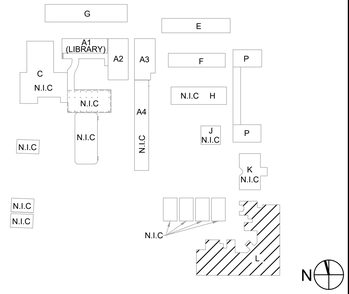
KEY PLAN | NOT TO SCALE



PLUMBING REMODEL FIRST FLOOR PLAN - BUILDING L

1/8" = 1'-0"

1



KEY PLAN

NOT TO SCALE

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REGISTERED PROFESSIONAL ENGINEER
HEATH A. BEEVER
No. M29253
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STATE OF CALIFORNIA

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL

5260 CLARK STREET
LYNWOOD, CA 90262

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ENGINEER:	OED
DSA NUMBER:	03-126114

CONSULTANT

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SHEET DESCRIPTION:
PLUMBING REMODEL FIRST FLOOR PLAN - BUILDING L

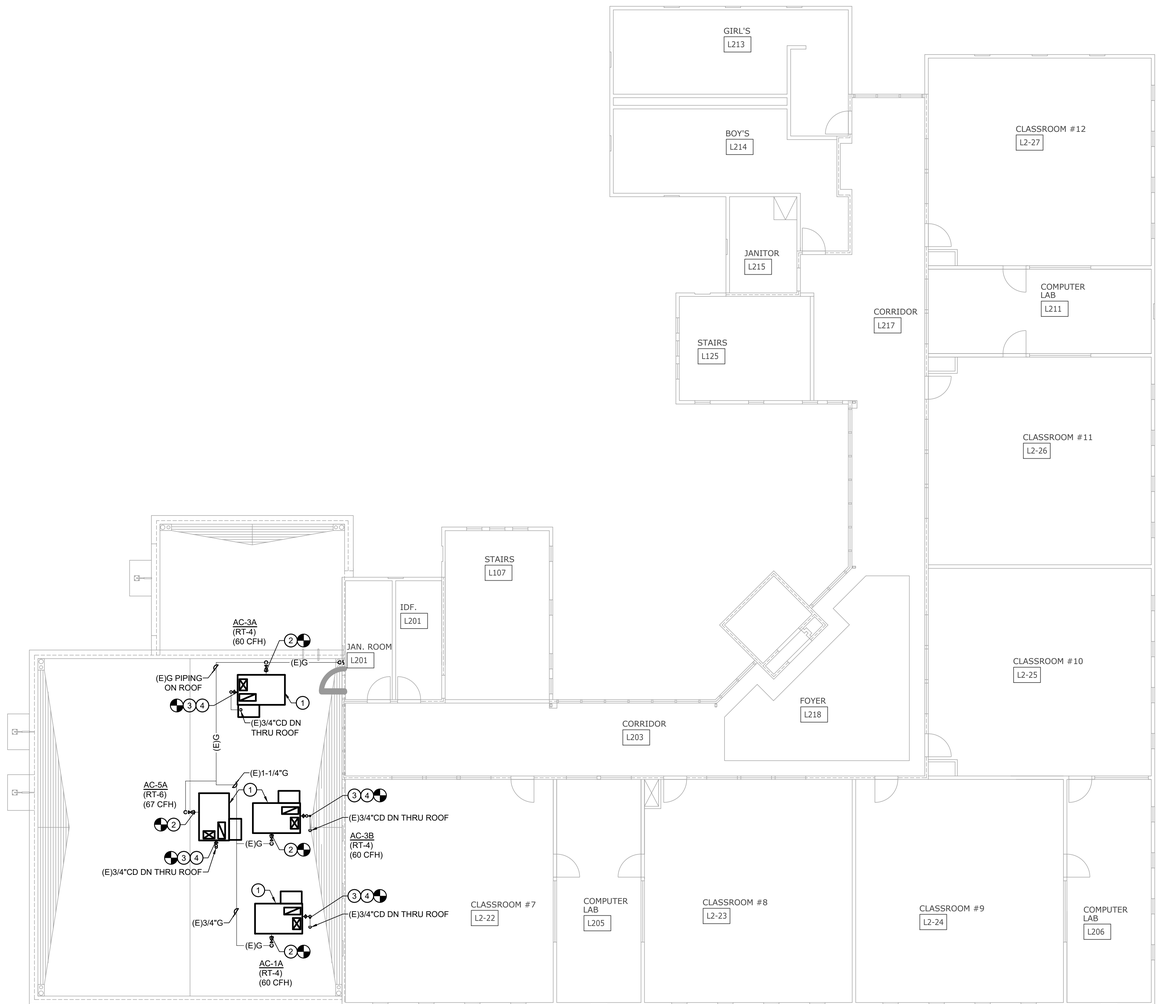
SHEET NO:
P-1.6

CONSTRUCTION GENERAL NOTES:

1. COORDINATE WITH OTHER TRADES PRIOR TO MAKING ANY ROOF OPENINGS.
2. FIELD VERIFY EXISTING GAS PIPING LOCATION AND SIZE.
3. ALL EQUIPMENT, PIPING AND MATERIALS SHALL BE LISTED.
4. PROVIDE UV INHIBITOR COATING FOR EXPOSED OUTDOOR PIPING.

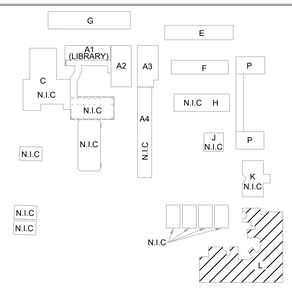
CONSTRUCTION KEYNOTES:

1. NEW MECHANICAL UNIT. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION
2. CONNECT NEW GAS PIPING TO EXISTING GAS PIPING AT MECH. UNIT WITH DRIP LEG 6-INCH MINIMUM, UNION AND APPROVED GAS FLEX LINE. SEE SHEET P4.1 DETAIL NUMBER 3. VERIFY EXACT LOCATION AND SIZE IN FIELD.
3. CONNECT NEW 3/4"CD PLUG & VENTED P-TRAP AT UNIT. SEE SHEET P-4.1 DETAIL NUMBER 1. SLOPE CONDENSATE DRAIN @ 1%.
4. CONNECT NEW 3/4"CD AT EXISTING 3/4"CD ABV ROOF.



REF NORTH

PLUMBING REMODEL SECOND FLOOR PLAN - BUILDING L | 1/8" = 1'-0" | 1



KEY PLAN | NOT TO SCALE

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SHEET DESCRIPTION:
PLUMBING REMODEL SECOND FLOOR PLAN - BUILDING L

SHEET NO:
P-1.6.1



PLUMBING REMODEL ROOF PLAN - BUILDING L

1/8" = 1'-0"

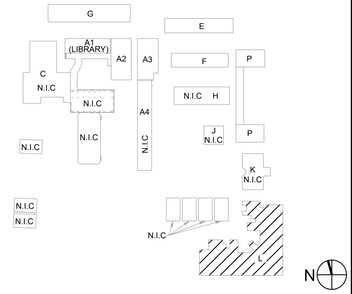
1

CONSTRUCTION GENERAL NOTES:

1. COORDINATE WITH OTHER TRADES PRIOR TO MAKING ANY ROOF OPENINGS.
2. FIELD VERIFY EXISTING GAS PIPING LOCATION AND SIZE.
3. ALL EQUIPMENT, PIPING AND MATERIALS SHALL BE LISTED.
4. PROVIDE UV INHIBITOR COATING FOR EXPOSED OUTDOOR PIPING.

CONSTRUCTION KEYNOTES:

1. NEW MECHANICAL UNIT. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION
2. CONNECT NEW GAS PIPING TO EXISTING GAS PIPING AT MECH. UNIT WITH DRIP LEG 6-INCH MINIMUM, UNION AND APPROVED GAS FLEX LINE. SEE SHEET P4.1 DETAIL NUMBER 3. VERIFY EXACT LOCATION AND SIZE IN FIELD.
3. CONNECT NEW 3/4"CD PLUG & VENTED P-TRAP AT UNIT. SEE SHEET P-4.1 DETAIL NUMBER 1. SLOPE CONDENSATE DRAIN @ 1%.
4. CONNECT NEW 3/4"CD AT EXISTING 3/4"CD ABV ROOF.



KEY PLAN

NOT TO SCALE

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DIV. OF THE STATE ARCHITECT
APP: 03-126114 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 09/15/2026

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Telephone (714) 693-2277

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REGISTERED PROFESSIONAL ENGINEER
ABBEY BAKEMEYER
No. M29253
Exp. 6/30/27
MECHANICAL
STATE OF CALIFORNIA

PROJECT NAME:

ABBOTT ELEMENTARY SCHOOL

5260 CLARK STREET
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	09/04/2026	BACKCHECK PH 1

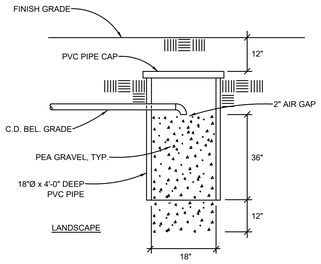
JOB NO: 501-26-0032
DATE: 09/04/2026
DRAWN: JE
CHECK: HA
ARCHITECT: PETRA
ENGINEER: OED
DSA NUMBER: 03-126114

CONSULTANT

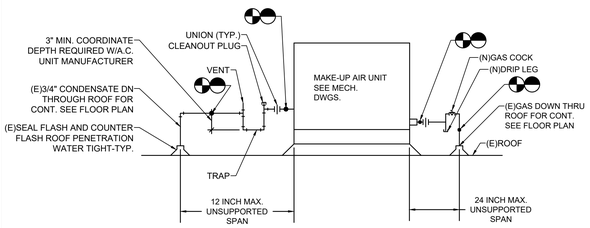
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PLUMBING REMODEL ROOF PLAN - BUILDING L

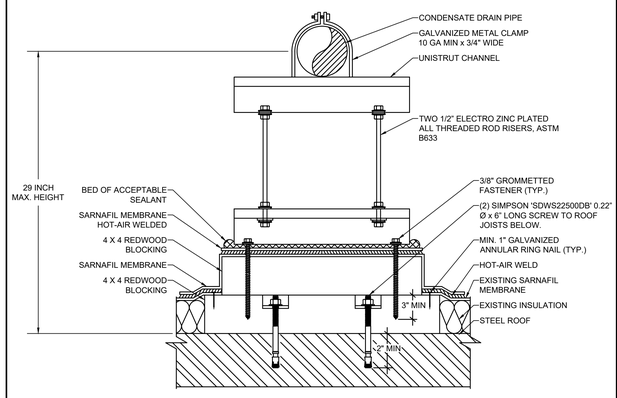
SHEET NO:
P-1.6.2



DRYWELL DETAIL | SCALE NONE | 6



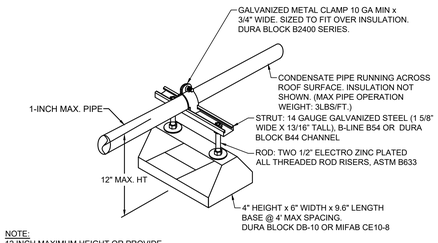
GAS & CD CONNECTIONS OF MECH UNIT ON ROOF | SCALE NONE | 3



CONDENSATE DRAIN POSITIVE ROOF ATTACMENT DETAIL | SCALE NONE | 5

MODEL #: DURA BLOCK DB-10 OR MIFAB CE10-8

INSTALLATION INSTRUCTIONS: THE RUBBER BASES CAN BE DIRECTLY PLACED ON THE ROOF SURFACE. USE CHEMLINK M-1 STRUCTURAL ADHESIVE/ SEALANT OR EQUAL FOR ATTACHMENT TO STRUCTURE.
ADJUST THE CROSSBEAM BY LOOSENING THE NUTS AND ADJUST THE STRUT TO DESIRED HEIGHT AND RE-TIGHTEN NUTS. 4 FEET MAXIMUM SPACING FOR CONDENSATE DRAIN PIPE.



NOTE:
12 INCH MAXIMUM HEIGHT OR PROVIDE ANCHORAGE TO ROOF STRUCTURE MEMBERS. SLEEP LENGTH OF BASE TO BE 2 TIMES THE ACTUAL HEIGHT.

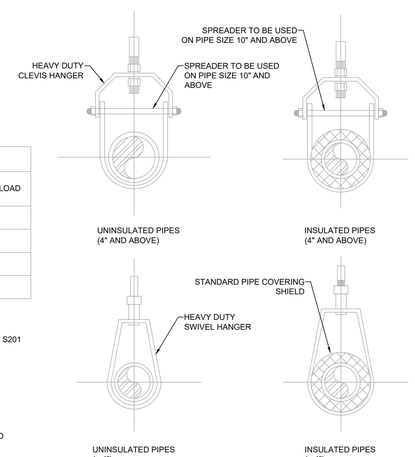
CONDENSATE DRAIN PIPE SUPPORT ON ROOF DETAIL | SCALE NONE | 2

PIPE SUPPORT BRACING / SPACING SCHEDULE			
TYPE OF PIPE	SIZE	HORIZONTAL	VERTICAL
STEEL	3/4" OR 1"	8 FT.	EVERY FLOOR
	1-1/4" OR LARGER	10 FT.	
COPPER & COPPER ALLOYS	1-1/2" & SMALLER	6 FT.	EACH FLOOR, NOT TO EXCEED 10 FEET
	2" AND LARGER	10 FT.	

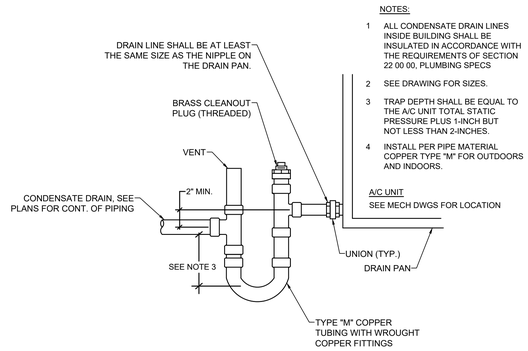
SCHEDULE FOR SINGLE PIPE HANGERS 3/4" THRU 6"			
TYPE NO.	PIPE SIZE	ROD SIZE	*MAXIMUM LOAD
1	3/4" THRU 2"	3/8"	500#
2	2 1/2" THRU 3 1/ 2"	1/2"	1000#
3	4" THRU 5"	5/8"	1500#
4	6" THRU 12"	3/4"	2000#

NOTES:

1. SUPPORT PIPE HANGERS FROM STRUCTURAL BEAM ONLY. REFER TO SHEET S201 DETAIL 14.
2. STRUCTURAL STEEL PENETRATIONS SHALL BE FIRST REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER. (IF APPLICABLE)
3. HANGER AND ROD SHALL BE DIPPED IN ZINC CHROMATE PRIMER PRIOR TO INSTALLATION.
4. SCHEDULED DATA MAY ALSO BE USED FOR TRAPEZE HANGER SELECTION WITH EACH ROD NOT TO EXCEED THE LOADS SHOWN IN THE MAXIMUM LOAD COLUMN.
5. FOR THE MAXIMUM HANGING ALLOWED IN THE STRUCTURE REFER TO STRUCTURAL DETAILS.



TYPICAL PIPE HANGER DETAIL | SCALE NONE | 4



CONDENSATE TRAP DETAIL | SCALE NONE | 1

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SHEET DESCRIPTION:
PLUMBING DETAILS

SHEET NO:
P-4.1