GAS/ELECTRIC UNIT SCHEDULE

UNIT TAG	MFR & MODEL #	BUILDING SERVICED	AREA SERVICED	ELECTRICAL V	ELECTRICAL PH
AC 1	CARRIER 48HJD006	A	COMPUTER ROOM	460	3
EAC 1	CARRIER 48TJD028	A	NORTH CLASSROOMS	460	3
EAC 2	CARRIER 48EKD034	A	EAST CLASSROOMS	460	3
EAC 3	CARRIER 48EKD038	A	WEST CLASSROOMS	460	3
EAC 4	CARRIER 48EKD034	A	NORTH CLASSROOMS	460	3
EAC 5	CARRIER 582AEW042060	A	ADMINISTRATION	460	3

CONDENSING UNIT SCHEDULE

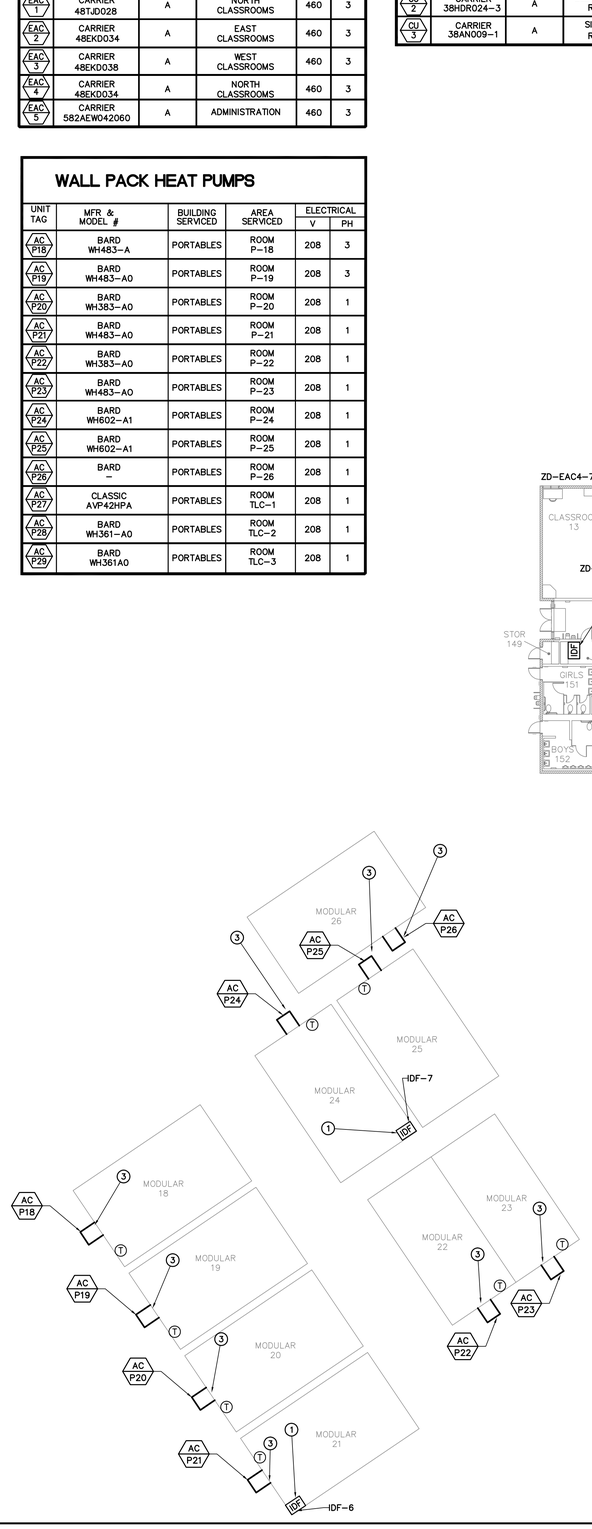
UNIT TAG	MFR & MODEL #	BUILDING SERVICED	AREA SERVICED	ELECTRICAL V	ELECTRICAL PH
CU 1	CARRIER 38AN009-1	A	STORAGE ROOM	120	1
CU 2	CARRIER 38HDR024-3	A	ELECTRICAL ROOM	120	1
CU 3	CARRIER 38AN009-1	A	SIGNAL ROOM	120	1

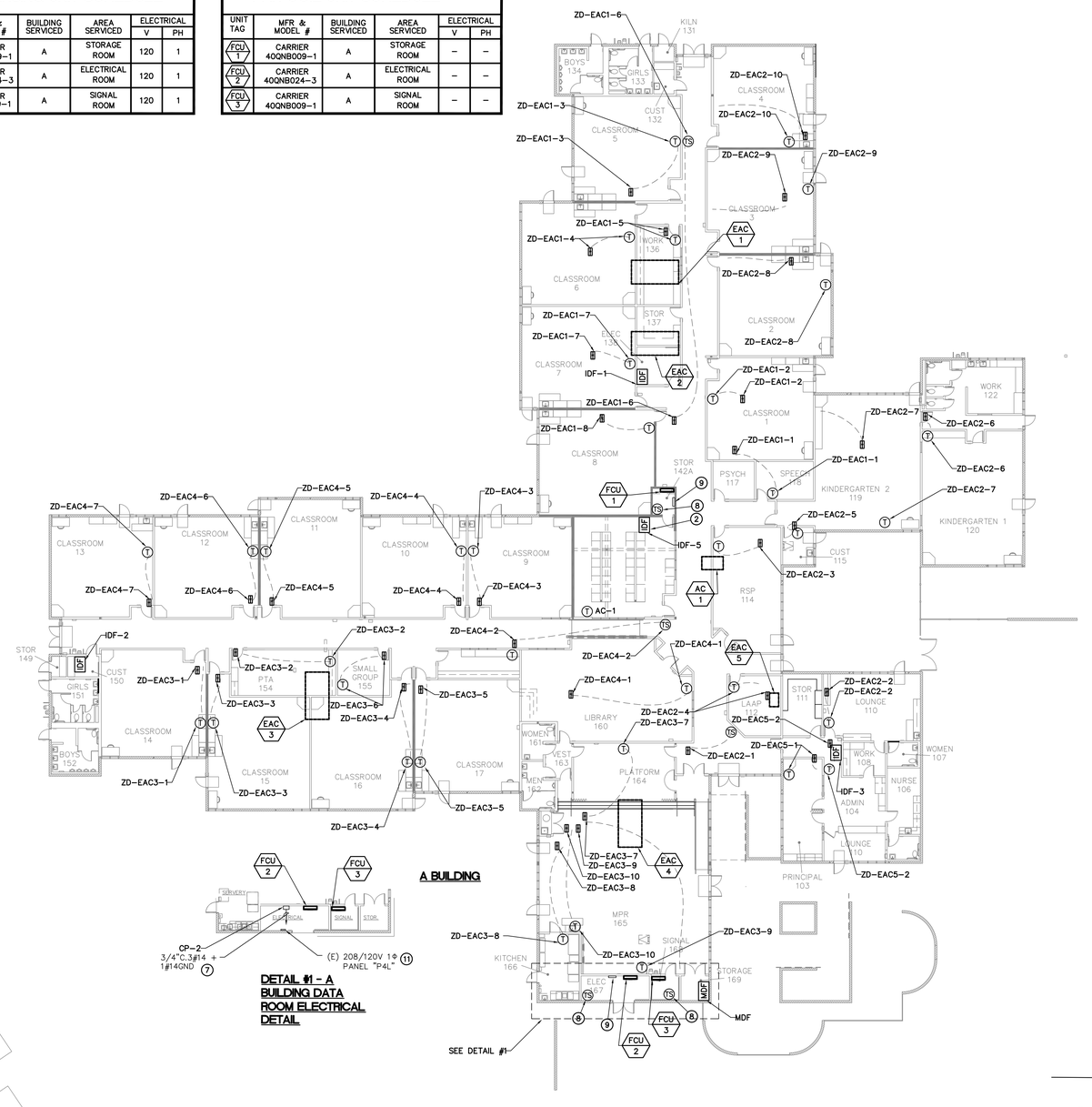
FAN COIL UNIT SCHEDULE

UNIT TAG	MFR & MODEL #	BUILDING SERVICED	AREA SERVICED	ELECTRICAL V	ELECTRICAL PH
FCU 1	CARRIER 40QNB009-1	A	STORAGE ROOM	–	–
FCU 2	CARRIER 40QNB024-3	A	ELECTRICAL ROOM	–	–
FCU 3	CARRIER 40QNB009-1	A	SIGNAL ROOM	–	–

WALL PACK HEAT PUMPS

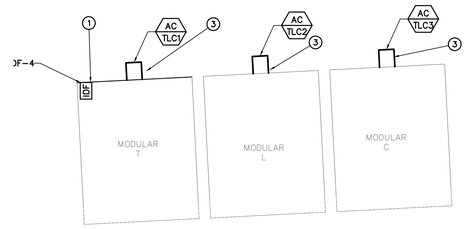
UNIT TAG	MFR & MODEL #	BUILDING SERVICED	AREA SERVICED	ELECTRICAL V	ELECTRICAL PH
AC P18	BARD WH483-A	PORTABLES	ROOM P-18	208	3
AC P19	BARD WH483-A0	PORTABLES	ROOM P-19	208	3
AC P20	BARD WH383-A0	PORTABLES	ROOM P-20	208	1
AC P21	BARD WH483-A0	PORTABLES	ROOM P-21	208	1
AC P22	BARD WH383-A0	PORTABLES	ROOM P-22	208	1
AC P23	BARD WH483-A0	PORTABLES	ROOM P-23	208	1
AC P24	BARD WH602-A1	PORTABLES	ROOM P-24	208	1
AC P25	BARD WH602-A1	PORTABLES	ROOM P-25	208	1
AC P26	BARD –	PORTABLES	ROOM P-26	208	1
AC P27	CLASSIC AVP42HPA	PORTABLES	ROOM TLC-1	208	1
AC P28	BARD WH361-A0	PORTABLES	ROOM TLC-2	208	1
AC P29	BARD WH361A0	PORTABLES	ROOM TLC-3	208	1





A BUILDING

DETAIL #1 - A BUILDING DATA ROOM ELECTRICAL DETAIL



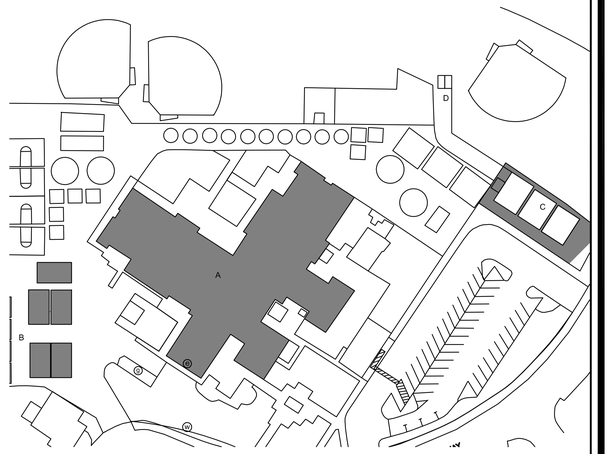
C BUILDING PORTBLES

CONSTRUCTION NOTES:

1. INSTALL NEW CARRIER BACNET LINK MODULE.
2. INSTALL CARRIER CCN LINK MODULE.
3. INSTALL NEW BACNET CARRIER RTU OPEN CONTROLLER.
4. ~~INSTALL NEW UNIVERSAL BACNET CONTROLLER.~~
5. EXISTING 6400 CARRIER COMFORT CONTROLLER.
6. EXISTING CENTRAL THERMOSTAT PANEL ENCLOSURE.
7. PROVIDE 120V POWER TO NEW CONTROL PANEL (BY ELECTRICAL).
8. PROVIDE ROOM TEMPERATURE MONITORING FOR SPLIT SYSTEM.
9. ~~INSTALL NEW CCN CONTROLLER.~~
10. ~~REMOVE EXISTING DATA COLLECTION MODULES.~~
11. CONTRACTOR TO PROVIDE AND INSTALL A NEW 20A 1 POLE CIRCUIT BREAKER IN PANELS "P4L". CIRCUIT BREAKER TO MATCH EXISTING CIRCUIT BREAKER IN MANUFACTURER AND SHALL MATCH THE HIGHEST A/C RATING OF THE EXISTING CIRCUIT BREAKERS. SHORT CIRCUIT RATING SHALL MATCH THE HIGHEST A/C RATING OF THE EXISTING CIRCUIT BREAKERS.

EXHAUST FAN SCHEDULE

UNIT TAG	MFR & MODEL #	BUILDING SERVICED	AREA SERVICED	ELECTRICAL V	ELECTRICAL PH	REMARKS
EF 1	COOK 70 ACEB	A	GIRLS RESTROOM	120	1	INTERLOCKED TO EAC-1
EF 2	COOK 70 ACEB	A	KILN	120	1	INTERLOCKED TO LIGHT SWITCH
EF 3	COOK 80 ACEB	A	BOYS RESTROOM	120	1	ON/OFF SWITCH
EF 4	COOK 70 ACEB	A	KINDERGARTEN RR	120	1	INTERLOCKED TO LIGHT SWITCH
EF 5	COOK 100 ACEB	A	OFFICE RESTROOM	120	1	INTERLOCKED TO LIGHT SWITCH
EF 6	COOK 70 ACEB	A	MENS/WOMENS RESTROOMS	120	1	INTERLOCKED TO LIGHT SWITCH
EF 7	COOK 80 ACEB	A	KITCHEN	120	1	KITCHEN HOOD SWITCH
EF 8	COOK 70 ACEB	A	BOYS RESTROOM	120	1	INTERLOCKED TO LIGHT SWITCH
EF 9	COOK 80 ACEB	A	GIRLS RESTROOM	120	1	INTERLOCKED TO LIGHT SWITCH



KEY PLAN

MECHANICAL FLOOR PLAN

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

STAMP

REGISTERED PROFESSIONAL ENGINEER ABBY BANEAREE No. M29253 Exp. 6/30/17 MECHANICAL STATE OF CALIFORNIA

PROJECT NAME:

RANCHO CAÑADA ELEMENTARY SCHOOL
EMS CONTROLS MODERNIZATION
21801 Winding Way
Lake Forest, CA 92630

CLIENT:

SADDLEBACK VALLEY UNIFIED SCHOOL DISTRICT
25631 PETER A. HARTMAN WAY
MISSION VIEJO, CA. 92691-3142

No.	Rev. Date	Description
1		
2		
3		
4		

JOB NO:
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DRAWN:
CHECK:
ARCHITECT:
ENGINEER: OED
CONSULTANT

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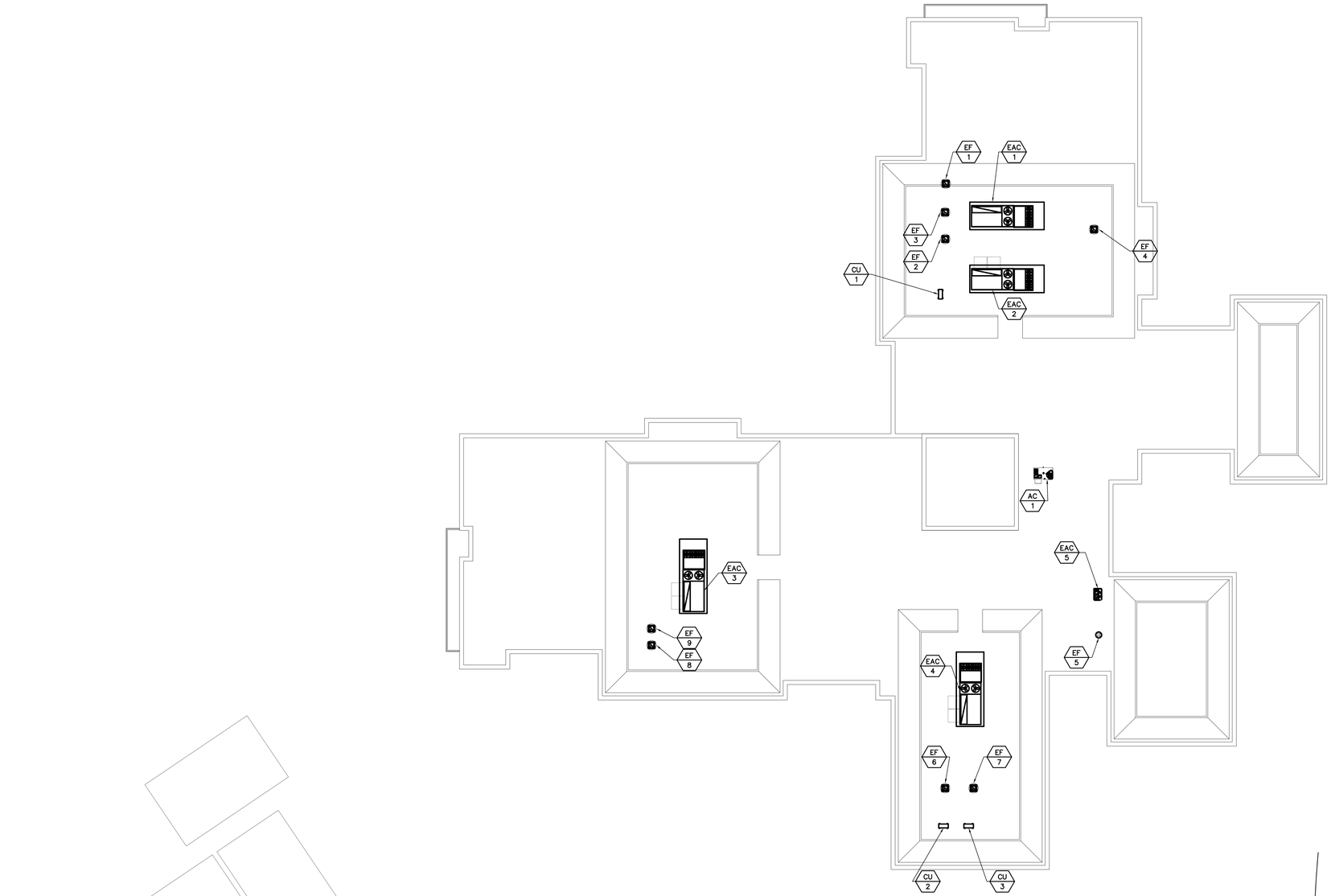
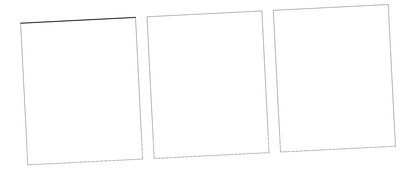
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP #
AC_____FLS_____SS_____

SHEET DESCRIPTION:
MECHANICAL FLOOR PLANS
SCALE $\frac{1}{16}$"=1'-0"

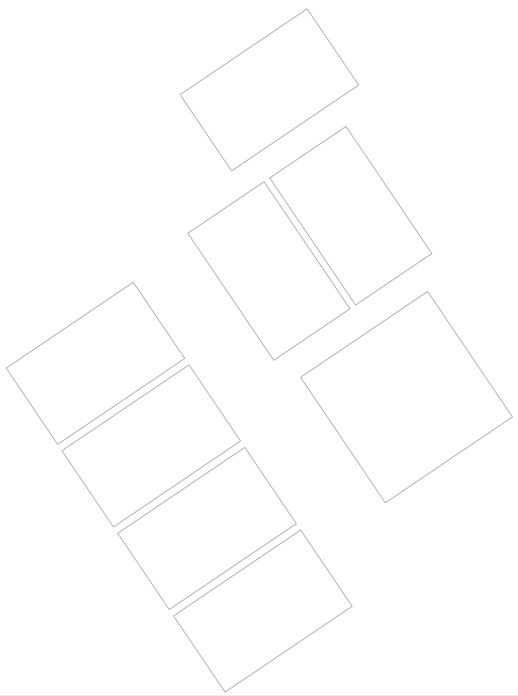
ME-Z-1.1

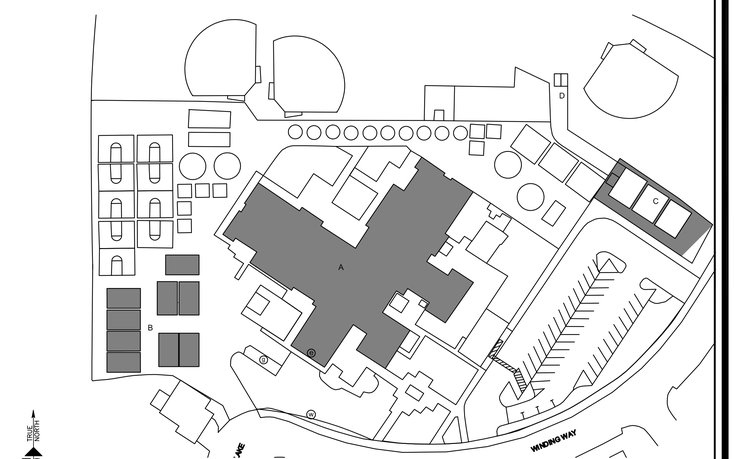


A BUILDING



C BUILDING PORTBLES





KEY PLAN

MECHANICAL ROOF PLAN

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

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REGISTERED PROFESSIONAL ENGINEER
ABBY BANERJEE
No. M29253
Exp. 6/30/17
MECHANICAL
STATE OF CALIFORNIA

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EMS CONTROLS MODERNIZATION
21801 Winding Way
Lake Forest, CA 92630

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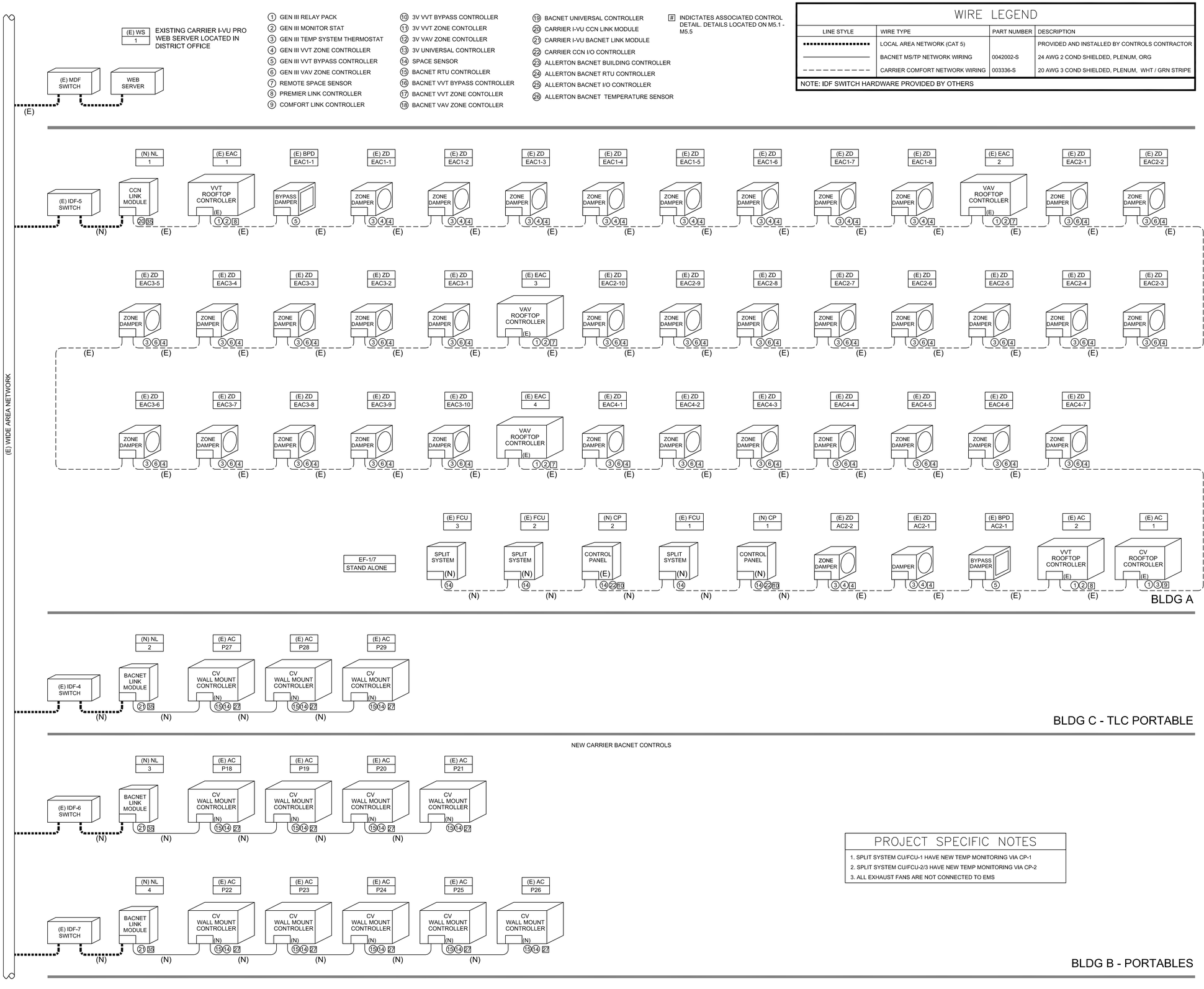
SHEET DESCRIPTION:
MECHANICAL ROOF PLANS
SCALE $\frac{1}{16}$"=1'–0"

ME-Z-2.1



PROJECT SPECIFIC NOTES

1. SPLIT SYSTEM CU/FCU-1 HAVE NEW TEMP MONITORING VIA CP-1
2. SPLIT SYSTEM CU/FCU-2/3 HAVE NEW TEMP MONITORING VIA CP-2
3. ALL EXHAUST FANS ARE NOT CONNECTED TO EMS

EMS RISER DIAGRAM

SCALE NONE 1

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Anaheim, CA 92807
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REGISTERED PROFESSIONAL ENGINEER ABBY BANEVEE No. M29253 Exp. 6/30/17 MECHANICAL STATE OF CALIFORNIA

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SHEET DESCRIPTION:

EMS RISER DIAGRAMS
N.T.S.

ME-Z-3.1