CODES, STANDARDS & GUIDES

PARTIAL LIST OF APPLICABLE CODES AS OF January 1, 2017

2016 California Administrative Code, Part 1, Title 24 C.C.R.*
2016 California Building Code (CBC), Part 2, Title 24 C.C.R.
(2015 International Building Code Volumes 1–2 and 2013 California Amendments)
2016 California Electrical Code (CEC), Part 3, Title 24 C.C.R.
(2014 National Electrical Code and 2016 California Amendments)
2016 California Mechanical Code (CMC) Part 4, Title 24 C.C.R.
(2015) Uniform Mechanical Code and 2016 California Amendments)
2016 California Plumbing Code (CPC), Part 5, Title 24 C.C.R.
(2015) Uniform Plumbing Code and 2016 California Amendments)
2016 California Energy Code (CEC), Part 6, Title 24 C.C.R.*
2016 California Fire Code, Part 9, Title 24 C.C.R.
(2015 International Fire Code and 2016 California Amendments)
2016 California Green Building Standards Code, Part 11, Title 24 C.C.R.
2016 California Referenced Standards, Part 12, Title 24 C.C.R.
Title 19 C.C.R., Public Safety, State Fire Marshal Regulations.
2007 ASME A17.1(w/ A17.1a/CSA B44a–08 addenda) Safety Code For Elevators And Escalators

PARTIAL LIST OF APPLICABLE STANDARDS

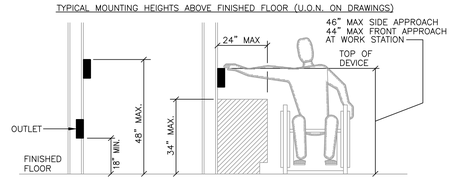
NFPA 13	Automatic Sprinkler Systems	2016 Edition
NFPA 14	Standpipe Systems	2016 Edition
NFPA 17	Dry Chemical Extinguishing Systems	2016 Edition
NFPA 17a	Wet Chemical Systems	2016 Edition
NFPA 20	Stationary Pumps	2016 Edition
NFPA 22	Water tanks for Private Fire Protection	2016 Edition
NFPA 24	Private Fire Mains	2016 Edition
NFPA 72	National Fire Alarm Code	2016 Edition
NFPA 80	Fire doors and Other Opening Protectives	2016 Edition
NFPA 92	Standard for Smoke Control Systems	2012 Edition
NFPA 253	Critical Radiant Flux of Floor Covering Systems	2015 Edition
NFPA 2001	Clean Agent Fire Extinguishing Systems	2015 Edition
ICC 300	ICC Standards on Bleachers, Folding and Telescoping Seating and Grand stands	2012 Edition
UL 300	Fire Testing of Fire Extinguishing Systems for Protection Of Restaurant Cooking Areas	2005 Edition
UL 464	Audible Signal Appliances	2003 Edition
UL 521	Heat Detectors for Fire Protective Signaling Systems	1999 Edition

Reference code section for NFPA Standards– 2013 CBC (SFM) Chapter 35. See Chapter 35 for State of California amendments to NFPA Standards.

ELECTRICAL EQUIPMENT BRACING & ANCHORAGE

1. ALL ELECTRICAL EQUIPMENT AND CONDUITS SHALL BE INSTALLED WITH SEISMIC RESTRAINTS PER "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING SYSTEMS" PUBLISHED BY SMACNA AND APPROVED BY DSA, INCLUDING SUPPLEMENT DATED SEPT. 2016 FOR SEISMIC HAZARD LEVEL "AA".
2. WHERE BRACING AND ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWING OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, THE STRUCTURAL ENGINEER, AND THE DSA FIELD ENGINEER.
3. WHERE BRACING AND ANCHORAGE DETAILS AS CALLED FOR IN THE SPECIFICATIONS THAT CONTRACTOR TO SUBMIT AS PART OF SHOP DRAWINGS, CONTRACTOR SHALL FURNISH, DESIGN DETAILS. CALCULATIONS, A SET OF REPRODUCIBLE DRAWINGS ALL THESE REQUIREMENT SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT. STRUCTURAL ENGINEER AND THE DSA FIELD ENGINEER.
4. A COPY OF THE GUIDELINES PUBLISHED BY SMACNA AND APPROVED BY DSA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB SITE AT ALL TIMES.
5. THE SEISMIC ANCHORAGE OF MECHANICAL AND ELECTRICAL EQUIPMENT SHALL CONFORM TO C.C.R. TITLE 24, 2016 CBC. ANCHORAGE DETAILS FOR ROOF/FLOOR MOUNTED EQUIPMENT SHALL BE SHOWN ON PLANS.

TYPICAL MOUNTING HEIGHTS ABOVE FINISHED FLOOR (U.O.N. ON DRAWINGS)



MOUNTING HEIGHTS **OVER OBSTRUCTION**

MOUNTING HEIGHTS

SCALE : N.T.S. OUTLETS, INTERCOM, CONTROLS, ETC. EXCEPT FIRE ALARM.

TYPICAL MOUNTING HEIGHTS ABOVE FINISHED FLOOR (UNLESS OTHERWISE NOTED ON DRAWINGS)

+48" TO TOP OF BOX — LIGHT SWITCHES, DIMMER SWITCHES, FIRE ALARM PULL STATION, INTERCOM CALL SWITCH, SPEAKER VOLUME CONTROL, T–STATS, BY–PASS TIMER, WALL TELEPHONE.

+18" TO BOTTOM OF BOX — ALL DUPLEX RECEPTACLES, WALL OUTLET FOR DESK TELEPHONE, COMPUTER OUTLET, UNLESS OTHERWISE NOTED.

GENERAL NOTES

1. THE SPECIFICATIONS AND DRAWINGS ARE INTENDED TO COVER A COMPLETE INSTALLATION OF SYSTEMS. THE OMISSION OF EXPRESSED REFERENCE TO ANY ITEM OF LABOR OR MATERIAL FOR THE PROPER EXECUTION OF THE WORK IN ACCORDANCE WITH PRESENT PRACTICE OF THE TRADE SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING SUCH ADDITIONAL LABOR AND MATERIALS.
2. WORK INCLUDES ALL LABOR, MATERIALS, APPLIANCES, TOOLS, EQUIPMENT, FACILITIES, TRANSPORTATION AND SERVICES NECESSARY FOR AND INCIDENTAL TO PERFORMING ALL OPERATIONS IN CONNECTION WITH FURNISHING, DELIVERY AND INSTALLATION OF ELECTRICAL SYSTEM, COMPLETE, AS SHOWN ON THE DRAWINGS AND/OR SPECIFIED HEREIN.
3. CONSTRUCT PROJECT IN ACCORDANCE WITH FOLLOWING CODES: REGULATIONS OF STATE AND LOCAL FIRE MARSHAL; NATIONAL ELECTRIC CODE, NATIONAL FIRE PROTECTION ASSOCIATION, EDITION IN FORCE; LOCAL CODES AND ORDINANCES; TITLE 19, 21 AND 24 CALIFORNIA ADMINISTRATIVE CODE.
4. PERMITS, FEES AND INSPECTIONS: OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND FEES REQUIRED BY ANY CONSTITUTED AUTHORITY HAVING JURISDICTION INCLUDING UTILITIES. ARRANGE AND PAY FOR ALL REQUIRED INSPECTIONS OR EXAMINATIONS AND DELIVER CERTIFICATES OF INSPECTION TO ARCHITECT.
5. RECORD DRAWINGS: ON COMPLETION OF WORK, OBTAIN ONE SET OF XEROX VELLUMS FROM ARCHITECT AT COST OF PRINTING, AND NOTE NEATLY IN SCALE ALL CHANGES ON RECORD SET. DELIVER COMPLETE SET OF VELLUMS TOGETHER WITH ONE SET OF BLUELINE PRINTS TO ARCHITECT TOGETHER WITH CONTRACTOR'S NAME, ADDRESS AND PHONE NUMBER. INCORRECT, NON–LEGIBLE OR NON–REPRODUCIBLE DRAWINGS WILL NOT BE ACCEPTED.
6. SUBMIT A LIST OF MATERIALS AND EQUIPMENT MANUFACTURERS THAT CONTRACTOR INTENDS TO USE. SUBMIT SHOP DRAWINGS FOR: SWITCHBOARDS, PANELBOARDS, LIGHT FIXTURES, TRANSFORMERS AND DISCONNECT SWITCHES.
7. THE TERM "PROVIDE" USED ON DRAWINGS SHALL BE CONSIDERED TO MEAN "FURNISH AND INSTALL".
8. BEFORE PROCEEDING WITH WORK CAREFULLY CHECK AND VERIFY ALL DIMENSIONS AND SIZES AND ASSUME ALL RESPONSIBILITY FOR FITTING OF MATERIALS AND EQUIPMENT TO OTHER PARTS OF EQUIPMENT AND TO STRUCTURE. WHERE APPARATUS AND EQUIPMENT HAVE BEEN INDICATED ON DRAWINGS, DIMENSIONS HAVE BEEN TAKEN FROM TYPICAL EQUIPMENT OF CLASS INDICATED. CAREFULLY CHECK DRAWINGS AND SEE THAT EQUIPMENT WILL FIT INTO SPACES PROVIDED.
9. LOCATIONS OF CONDUITS, OUTLETS, APPARATUS AND EQUIPMENT INDICATED ON DRAWINGS ARE APPROXIMATE ONLY AND SHALL BE CHANGED TO MEET ARCHITECTURAL AND STRUCTURAL CONDITIONS AS REQUIRED.
10. BE CAUTIONED THAT DIAGRAMS SHOWING ELECTRICAL CONNECTIONS ARE DIAGRAMMATIC ONLY AND MUST NOT BE USED FOR OBTAINING LINEAL RUNS OF WIRING OR CONDUIT. WIRING DIAGRAMS DO NOT NECESSARILY SHOW EXACT PHYSICAL ARRANGEMENT OF EQUIPMENT.
11. EXTRA WORK OR COSTS TO THIS CONTRACTOR DUE TO OTHER CONTRACTORS OR TRADES SHALL BE ADJUSTED BETWEEN THIS CONTRACTOR AND OFFENDING CONTRACTOR AT NO EXTRA COST TO OWNER. NOTIFY ARCHITECT BEFORE SUCH EXTRA WORK IS DONE.
12. WHERE EQUIPMENT IS MOUNTED ON VIBRATION ISOLATORS, USE FLEXIBLE CONNECTIONS TO REDUCE TRANSMISSION OF NOISE.
13. WHERE CONDUITS PASS THROUGH SLEEVES IN INTERIOR WALLS, FLOORS, OR CEILINGS, COMPLETELY FILL SPACE BETWEEN EACH CONDUIT AND ITS SLEEVE TO PROVIDE AN AIRTIGHT SEAL.
14. USE GLASS FIBER MATERIAL, "DUXSEAL" COMPOUND, FOR ACOUSTIC SEALS.
15. PROVIDE RECESSED OUTLET BOXES IN FINISHED AREAS; SECURE BOXES TO INTERIOR WALL AND PARTITION STUDS. ACCURATELY POSITION TO ALLOW FOR SURFACE FINISH THICKNESS. USE STAMPED STEEL STUD BRIDGES FOR FLUSH OUTLETS IN HOLLOW STUD WALL, AND ADJUSTABLE STEEL CHANNEL FASTENERS FOR FLUSH CEILING OUTLET BOXES. INSTALL PLASTER RINGS TO INTERFACE WITH EQUIPMENT TO BE MOUNTED THEREON.
16. ALIGN WALL–MOUNTED OUTLET BOXES FOR SWITCHES, THERMOSTATS, AND SIMILAR DEVICES.
17. PROVIDE CAST OUTLET BOXES IN EXTERIOR LOCATIONS AND WET LOCATIONS.
18. WHERE BOXES ARE INSTALLED IN FIRE RATED CEILING OR WALLS, BE RESPONSIBLE FOR PRESERVING INTEGRITY OF FIRE RATING AS REQUIRED.
19. IN FIRE–RATED WALL, USE 4" SQUARE DEEP BOXES. DO NOT AGGREGATE MORE THAN 100 SQUARE INCHES OF BOXES FOR ANY 100 SQUARE FEET OF WALL OR PARTITIONS. SEPARATE OUTLET BOXES ON OPPOSITE SIDES OF WALLS OR PARTITION BY A MINIMUM HORIZONTAL DISTANCE OF 24 INCHES.
20. PROVIDE COPPER CONDUCTORS ONLY.
21. PROVIDE TYPE "THHN" OR "THWN" WIRES ONLY.
22. MOUNT RECEPTACLES, TELEPHONES AND J–BOXES LOCATED IN WALL AT +18" FROM FLOOR LINE TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED ON PLAN.
23. MOUNT LIGHT SWITCHES, T–STATS, ETC. AT +48" UNLESS OTHERWISE NOTED.
24. PROVIDE WHEREVER NECESSARY ALL ADDITIONAL BACKING, BLOCKING AND SUPPORTS FOR LIGHT FIXTURES.
25. PROVIDE WEATHERPROOF TYPE ELECTRICAL EQUIPMENT OR MATERIALS FOR EXTERIOR LOCATIONS.
26. ALL EXPOSED CONDUITS AND BOXES AT EXTERIOR OR INTERIOR OF THE BUILDING SHALL BE PAINTED TO MATCH THE SURFACES WHERE INSTALLED. VERIFY ALL PAINT COLOR SELECTION WITH ARCHITECT PRIOR TO APPLICATION.

ELECTRICAL SYMBOLS

(ONLY THOSE THAT APPEAR ON PLANS APPLY)

- B□ — LED LIGHTING FIXTURE: UPPER CASE LETTER INDICATES TYPE.
- D⊙ — WALL MOUNT LED LIGHT FIXTURE: UPPER LETTER INDICATES TYPE.
- A 5a — LED LIGHTING FIXTURE, "5" DENOTES CIRCUIT NUMBER. LOWER CASE "a" DENOTES CONTROLLING SWITCH, UPPER CASE "A" DENOTES FIXTURE TYPE.
- (E) — (E) LIGHT TO REMAIN.
- (RR) — REMOVE AND RELOCATE (E) LIGHT.
- (R) — RELOCATED (E) LIGHT.
- WALL MOUNT OCCUPANCY SENSOR, "SENSOR SWITCH #WSD PDT". +48" A.F.F.
- CEILING MOUNT OCCUPANCY SENSOR, "SENSOR SWITCH #CM PDT".
- POWER PACK, "SENSOR SWITCH #PP20".
- JUNCTION BOX: MOUNTED IN CEILING SPACE OR ON CEILING IF NO CEILING SPACE.
- DUPLEX RECEPTACLE: 125V., 15 AMP., NEMA 5–15R. +18" U.O.N.
- DUPLEX RECEPTACLE: 125V., 20 AMP., NEMA 5–20R. +18" U.O.N.
- GROUND FAULT INTERRUPTER TYPE DUPLEX RECEPTACLE: 125V., 15 AMP., NEMA 5–15R. MOUNT IN A 2" DEEP BOX. +18" U.O.N.
- CEILING EXHAUST FAN.
- 0–8HR BYPASS TIMER.
- CONDUIT: EXPOSED IN UNFINISHED AREAS; CONCEALED ABOVE CEILING OR IN WALL IN FINISHED AREAS.
- CONDUIT BELOW FINISHED FLOOR.
- A–1,3,5 / A–1,3,5 — HOMERUN TO PANEL "A", CIRCUITS 1, 3, 5. (3) SLASH WIRES INDICATES 3#12 & 1#12G.
- 1/2"C,2#12 & 1#12G. 1/2"C,3#12 & 1#12G. 1/2"C,4#12 & 1#12G.
- 1"C,3#6 — OTHER CONDUIT AND WIRE SIZE AS NOTED ON DRAWINGS.
- CONDUIT: IN OR BELOW FLOOR OR BELOW GRADE.
- –XR– — DISCONNECT AND REMOVE (E) CONDUIT AND WIRES.
- E / E — EXISTING CONDUIT AND WIRES TO REMAIN.
- EXISTING CONDUIT WITH NEW 3#12 & 1#12G. WIRES.
- #10 / #10 — EXISTING CONDUIT WITH NEW WIRES AS NOTED.
- GROUND ROD IN GROUND WELL BOX. SEE DETAIL 1/E–102.
- MAIN SERVICE SWITCHBOARD.
- LIGHTING PANEL.
- (A) — PANEL DESIGNATION, LETTER IDENTIFIES THE PANEL.
- S — SINGLE POLE SWITCH. +48" A.F.F. S_K SINGLE POLE KEY OPERATED SWITCH. +48" A.F.F.
- S_T — HORSE POWER RATED SWITCH.
- FUSED DISCONNECT SWITCH H.P. RATED WITH CLASS "R" FUSECLIPS.
- D — DIMMER SWITCH; +48" A.F.F.

H.P.	HORSEPOWER.	C.O.	CONDUIT ONLY WITH #12 PULL WIRE.
N.F.	NON–FUSED.	W.P.	WEATHERPROOF.
(E)	EXISTING.	(N)	NEW.
N.O.	NORMALLY OPEN.	(E)S	(E) SWITCH TO REMAIN.
A.F.F.	ABOVE FINISHED FLOOR.		
A.F.G.	ABOVE FINISHED GRADE.		
LV	LOW VOLTAGE.		
A.I.C.	AMPERE INTERRUPTING CURRENT.		
U.O.N.	UNLESS OTHERWISE NOTED.		
U.G.	UNDERGROUND.		

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-119485 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 8/14/2019

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LICENSED ARCHITECT
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REGISTERED PROFESSIONAL ENGINEER
JIMMY L. FONG
No. E14126
EXP. 06.30.2021
ELECTRICAL

SOUND MITIGATION PROGRAM
OAK STREET ELEMENTARY SCHOOL
633 South Oak Street Inglewood, CA 90301
A PROJECT FOR: INGLEWOOD UNIFIED SCHOOL DISTRICT

PROJECT NUMBER:
10292
A# 03-119485

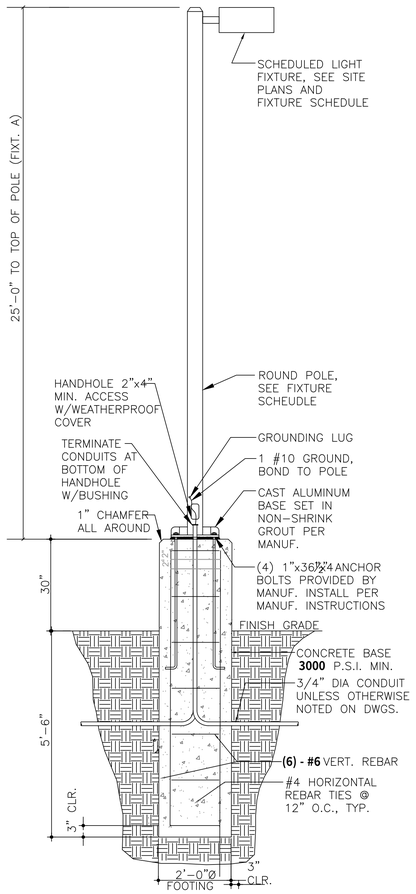
DRAWN:	HY
CHECKED:	PM

ISSUE/REVISION:

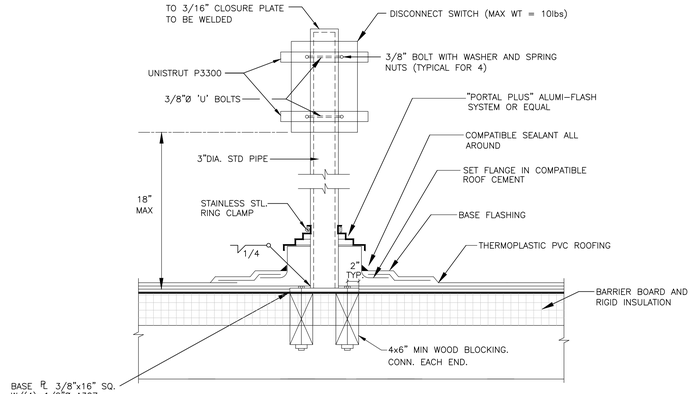
8/21/2018	30% - SCHEMATIC DESIGN
10/10/2018	50% CD SUBMITTAL
11/15/2018	100% CD - DSA SUBMITTAL
05/23/2019	DSA APPROVAL

SYMBOL LIST, NOTES, & DETAILS

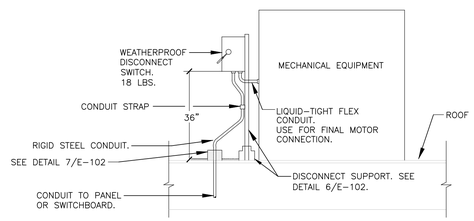
E-101



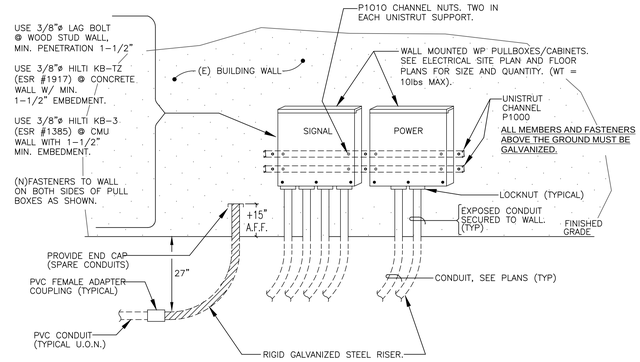
8 / E-102 **PARKING LIGHT POLE**
N.T.S.



6 / E-102 **DISCONNECT SUPPORT AND FLASHING DETAIL**
SCALE: 3" = 1'-0"



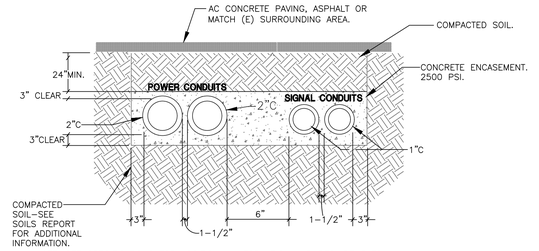
5 / E-102 **A/C UNIT - DISCONNECT SWITCH MOUNTING DETAIL**
N.T.S.



ALL UNDERGROUND GALVANIZED RIGID CONDUITS AND RISERS SHALL BE TAPED W/ 10MIL TAPE. (TYPICAL)

3 / E-102 **COMMUNICATION JUNCTION BOXES/CABINETS DETAIL**
N.T.S.

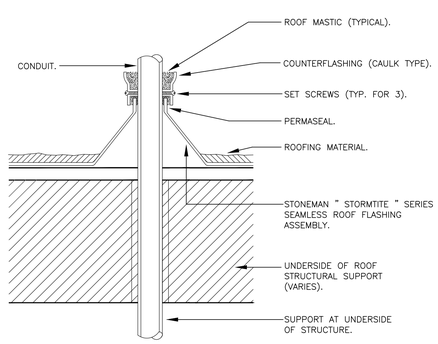
NOTE: DETAIL SHOWS TYPICAL MOUNTING OF PULLBOXES AND STUB UPS CONDUIT ONLY. REFER TO DRAWINGS FOR ACTUAL QUANTITY AND SIZE OF CONDUITS AND PULLBOXES.



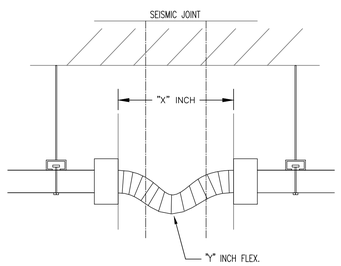
NOTE: SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

2 / E-102 **CONDUIT DUCT BANK DETAIL**
N.T.S.

NOTE:
1. DETAILS SHOWS TYPICAL CONDUIT SPACING AND DEPTH ONLY. REFER TO DRAWINGS FOR EXACT QUANTITY AND SIZES OF CONDUITS.
2. SAW CUT AND PATCH EXISTING SURFACE WHEN TRENCHING UNDER EXISTING ASPHALT OR CONCRETE. PATCH TO MATCH EXISTING CONDITION.
3. ELECTRICAL UNDERGROUND CONDUITS SHALL HAVE A 12" MINIMUM SEPARATION FROM ANY OTHER UNDERGROUND UTILITIES SUCH AS GAS, SEWER, WATER, ETC.

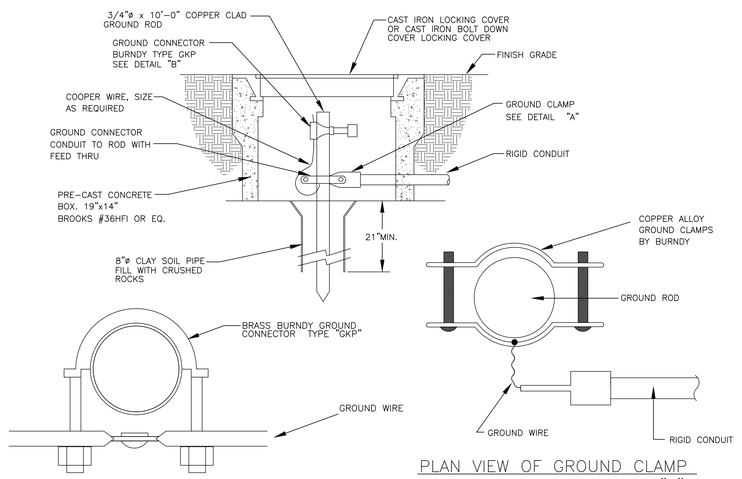


7 / E-102 **ROOF JACK ASSEMBLY**
N.T.S.



CONDUIT SIZE	"X" SPACE	"Y" FLEX. LENGTH
3/4" - 1-1/4"	54"	+60"
1-1/2" - 2-1/2"	60"	+66"
2" - 2-1/2"	66"	+72"
3" - 3-1/2"	78"	+87"

4 / E-102 **CONDUIT RUN BETWEEN SEISMIC JOINT OR DIFFERENT STRUCTURE**
N.T.S.



1 / E-102 **GROUND ROD AND PRE-CAST CONCRETE GROUND BOX DETAIL**
N.T.S.

NOTE: PROVIDE ONE ADDITIONAL GROUND ROD IN CONCRETE BOX AT 10 FT AWAY AS NEEDED IF 5 OHM REQUIREMENT IS NOT MET WITH ONLY ONE GROUND ROD BY EXTENDING SAME CONDUIT AND WIRE AND USING SAME CLAMPS. SEE SPECIFICATIONS.

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11/15/2018	100% CD - DSA SUBMITTAL
03/15/2019	DSA APPROVAL

DETAILS

E-102

277/480 VOLTS
3 PHASE
4 WIRE

EXISTING PANEL HMA

MAIN BRK: 200A
LOCATION: STORAGE ROOM
BUS RATING: 200A COPPER
S.C. RATING: 22K A.I.C FULLY RATED
MOUNTING: SURFACE

LOCATION	WATTAGE PH-A	WATTAGE PH-B	WATTAGE PH-C	LTG	REC	MIS	CIR	BKR		BKR	CIR	MIS	REC	LTG	WATTAGE PH-A	WATTAGE PH-B	WATTAGE PH-C	LOCATION
* AC-1	3933					1	1	20-3		20-3	2	1			3933			AC-2 *
– – – – –		3933					3	–		–	4					3933		– – – – –
– – – – –			3933				5	–		–	6						3933	– – – – –
* AC-3	3933					1	7	20-3		20-3	8	1			3933			AC-4 *
– – – – –		3933					9	–		–	10					3933		– – – – –
– – – – –			3933				11	–		–	12						3933	– – – – –
* AC-5	3933					1	13	20-3		20-3	14	1			3933			AC-6 *
– – – – –		3933					15	–		–	16					3933		– – – – –
– – – – –			3933				17	–		–	18						3933	– – – – –
* AC-7	3933					1	19	20-3		15-3	20	1			3158			AC-8 *
– – – – –		3933					21	–		–	22					3158		– – – – –
– – – – –			3933				23	–		–	24						3158	– – – – –
* AC-9	3158					1	25	15-3		15-3	26	1			3352			AC-12 *
– – – – –		3158					27	–		–	28					3352		– – – – –
– – – – –			3158				29	–		–	30						3352	– – – – –
* AC-14	3352					1	31	15-3		15-3	32	1			3352			AC-13 *
– – – – –		3352					33	–		–	34					3352		– – – – –
– – – – –			3352				35	–		–	36						3352	– – – – –
(E) TRANSFORMER	2115						37	70-3			38							SPACE
– – – – –		2115					39	–			40							SPACE
– – – – –			2115				41	–			42							SPACE

PH-A= 46018 VA PH-B= 46018 VA PH-C= 46018 VA
TOTAL CONNECTED LOAD: 138054 VA OR 166.13 AMPS Φ 277/480 VOLTS -- 3 PHASE, 4 WIRE
LCL: 11799 VA X 25% = 2949.8 VA
FDL: 138054 VA + 2950 VA (LCL) = 141004 VA OR 169.7 A

* INDICATES TO REMOVE (E) BREAKER AT PANEL AND PROVIDE NEW AS INDICATED. MATCH TYPE AND A.I.C. RATING OF (E) BREAKER.

277/480 VOLTS
3 PHASE
4 WIRE

(E) DISTRIBUTION SWITCHBOARD HMB1

MAIN BRK: 400A
LOCATION: BUILDING B-EXTERIOR
BUS RATING: 400A COPPER
S.C. RATING: 42K A.I.C FULLY RATED
MOUNTING: FLOOR

LOCATION	WATTAGE PH-A	WATTAGE PH-B	WATTAGE PH-C	LTG	REC	MIS	CIR	BKR		BKR	CIR	MIS	REC	LTG	WATTAGE PH-A	WATTAGE PH-B	WATTAGE PH-C	LOCATION
* AC-21	3352					1	1	20-3		20-3	2	1			3933			AC-2 *
– – – – –		3352					3	–		–	4					3933		– – – – –
– – – – –			3352				5	–		–	6						3933	– – – – –
* AC-19	3352					1	7	20-3		20-3	8	1			3352			AC-4 *
– – – – –		3352					9	–		–	10					3352		– – – – –
– – – – –			3352				11	–		–	12						3352	– – – – –
* AC-15	3933					1	13	20-3		20-3	14	1			2764			AC-6 *
– – – – –		3933					15	–		–	16					2764		– – – – –
– – – – –			3933				17	–		–	18						2764	– – – – –
* AC-17	3352					1	19	20-3		100-3	20	1			14514			SUB-FEED HMC *
– – – – –		3352					21	–		–	22					14514		– – – – –
– – – – –			3352				23	–		–	24						14514	– – – – –
* AC-18	2764					1	25	15-3		50-3	26							SPARE
– – – – –		2764					27	–		–	28							SPARE
– – – – –			2764				29	–		–	30							SPARE
SPACE							31				32							SPACE
SPACE							33				34							SPACE
SPACE							35				36							SPACE
SPACE							37				38							SPACE
SPACE							39				40							SPACE
SPACE							41				42							SPACE

PH-A= 41316 VA PH-B= 41316 VA PH-C= 41316 VA
TOTAL CONNECTED LOAD: 123948 VA OR 149.16 AMPS Φ 277/480 VOLTS -- 3 PHASE, 4 WIRE
LCL: 11799 VA X 25% = 2949.8 VA
FDL: 123948 VA + 2950 VA (LCL) = 126898 VA OR 152.7 A

* INDICATES TO REMOVE (E) BREAKER AT PANEL AND PROVIDE NEW AS INDICATED. MATCH TYPE AND A.I.C. RATING OF (E) BREAKER.

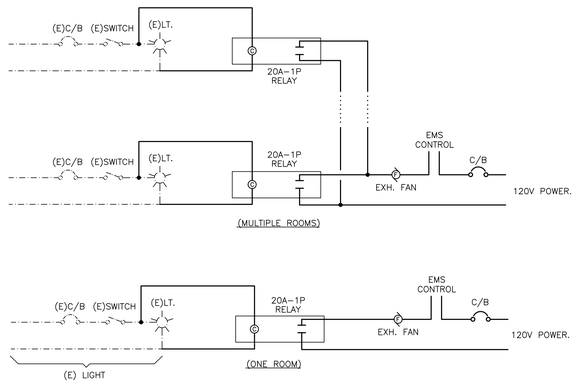
277/480 VOLTS
3 PHASE
4 WIRE

WP PANEL HMC

MAIN BRK: 100A
BUS RATING: 100A
S.C. RATING: 14K A.I.C. FULLY RATED
MOUNTING: SURFACE

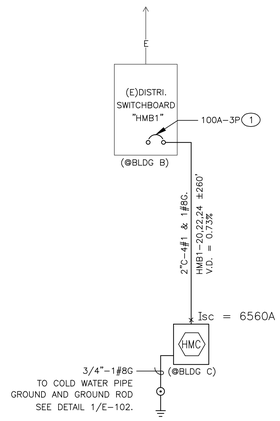
LOCATION	WATTAGE PH-A	WATTAGE PH-B	WATTAGE PH-C	LTG	REC	MIS	CIR	BKR		BKR	CIR	MIS	REC	LTG	WATTAGE PH-A	WATTAGE PH-B	WATTAGE PH-C	LOCATION
AC-25	7257						1	35-3		35-3	2				7257			AC-24
– – – – –		7257					3	–		–	4					7257		– – – – –
– – – – –			7257				5	–		–	6						7257	– – – – –
SPACE							7				8							SPACE
SPACE							9				10							SPACE
SPACE							11				12							SPACE

PH-A= 14514 VA PH-B= 14514 VA PH-C= 14514 VA
TOTAL CONNECTED LOAD: 43542 VA OR 52.397 AMPS Φ 277/480 VOLTS -- 1 PHASE, 3 WIRE
LCL: 21771 VA X 25% = 5442.8 VA
FDL: 43542 VA + 5443 VA (LCL) = 48985 VA OR 58.95 A



EXHAUST FAN INTERLOCK TO (E) LIGHT CONTROL DIAGRAM

N.T.S.



SINGLE LINE DIAGRAM

N.T.S.

KEYED NOTES

(1) PROVIDE NEW CIRCUIT BREAKER AT EXISTING PANEL. MATCH TYPE AND A.I.C. RATING OF EXISTING BREAKERS.

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CORDOBA CORPORATION
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REGISTERED PROFESSIONAL ENGINEER
JIMMY L. TONG
No. E14126
Exp. 06.30.2021
ELECTRICAL
STATE OF CALIFORNIA

SOUND MITIGATION PROGRAM
OAK STREET ELEMENTARY SCHOOL
633 South Oak Street Inglewood, CA 90301
A PROJECT FOR: INGLEWOOD UNIFIED SCHOOL DISTRICT

PROJECT NUMBER: 10292

DRAWN: HY
CHECKED: PM

ISSUE/REVISION:

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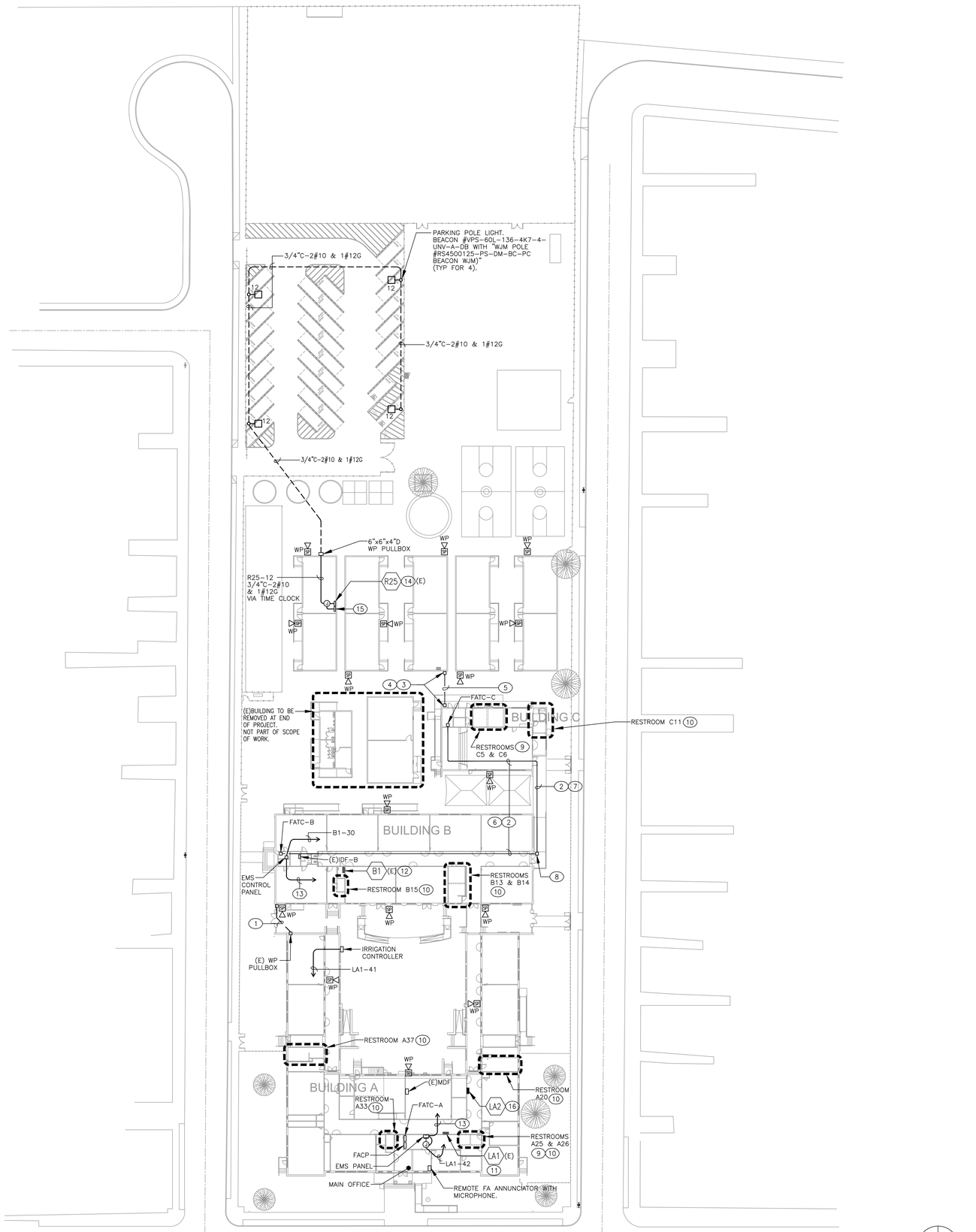
10/10/2018	50% CD SUBMITTAL
11/15/2018	100% CD - DSA SUBMITTAL
03/15/2019	DSA APPROVAL

SINGLE LINE DIAGRAM & PANEL SCHEDULES

E-103



KEYED NOTES

1. (E)1"C-(N)(2) FW, V, NW.
2. 2"C-(1) FW, V, NW.
3. 12"x12"x6"D WP WALL MOUNTED PULLBOX. SEE DETAIL 3/E-102.
4. STUB-OUT SPARE CONDUITS AT 12"A.F.G. AND AT SIDE OF NEW PULLBOX. PROVIDE END CAP.
5. 2"C-(1)FW,(3)V,(3)NW; (2)2"C.O. SPARE.
6. RUN CONDUIT INSIDE ATTIC.
7. RUN CONDUIT ON ARCADE ROOF. PROVIDE DURA BLOCK CONDUIT SUPPORT. SEE DETAIL 11/E-602.
8. 12"x12"x6" WP PULLBOX.
9. PROTECT IN PLACE ELECTRICAL INSTALLATION INSIDE RESTROOMS DURING THE ENTIRE PHASE OF RESTROOM REMODEL.
10. SEE ENLARGED PLAN ON E-305 FOR ELECTRICAL WORK.
11. PROVIDE (2)20A-1P CIRCUIT BREAKER AT (E) PANEL. MATCH TYPE AND AIC RATING OF EXISTING BREAKER.
12. PROVIDE (1)20A-1P AND (1)25A-1P CIRCUIT BREAKERS AT (E) PANEL. MATCH TYPE AND AIC RATING OF EXISTING BREAKER.
13. 1"C-(4)CAT-6 CABLE TO BUILDING MDF OR IDF.
14. PROVIDE (1)20A-1P CIRCUIT BREAKER AT (E)PANEL FOR PARKING LIGHT.
15. PROVIDE ELECTRONIC TIME CLOCK TO CONTROL PARKING LIGHTS. TIME CLOCK SHALL BE "INTERMATIC" #ET90115C OR EQUAL.
16. PROVIDE (2)25A-1P CIRCUIT BREAKER AT (E) PANEL. MATCH TYPE AND AIC RATING OF EXISTING BREAKER.

1 ELECTRICAL SITE PLAN

FILE NAME: _E201
SCALE: 1/32"=1'-0"

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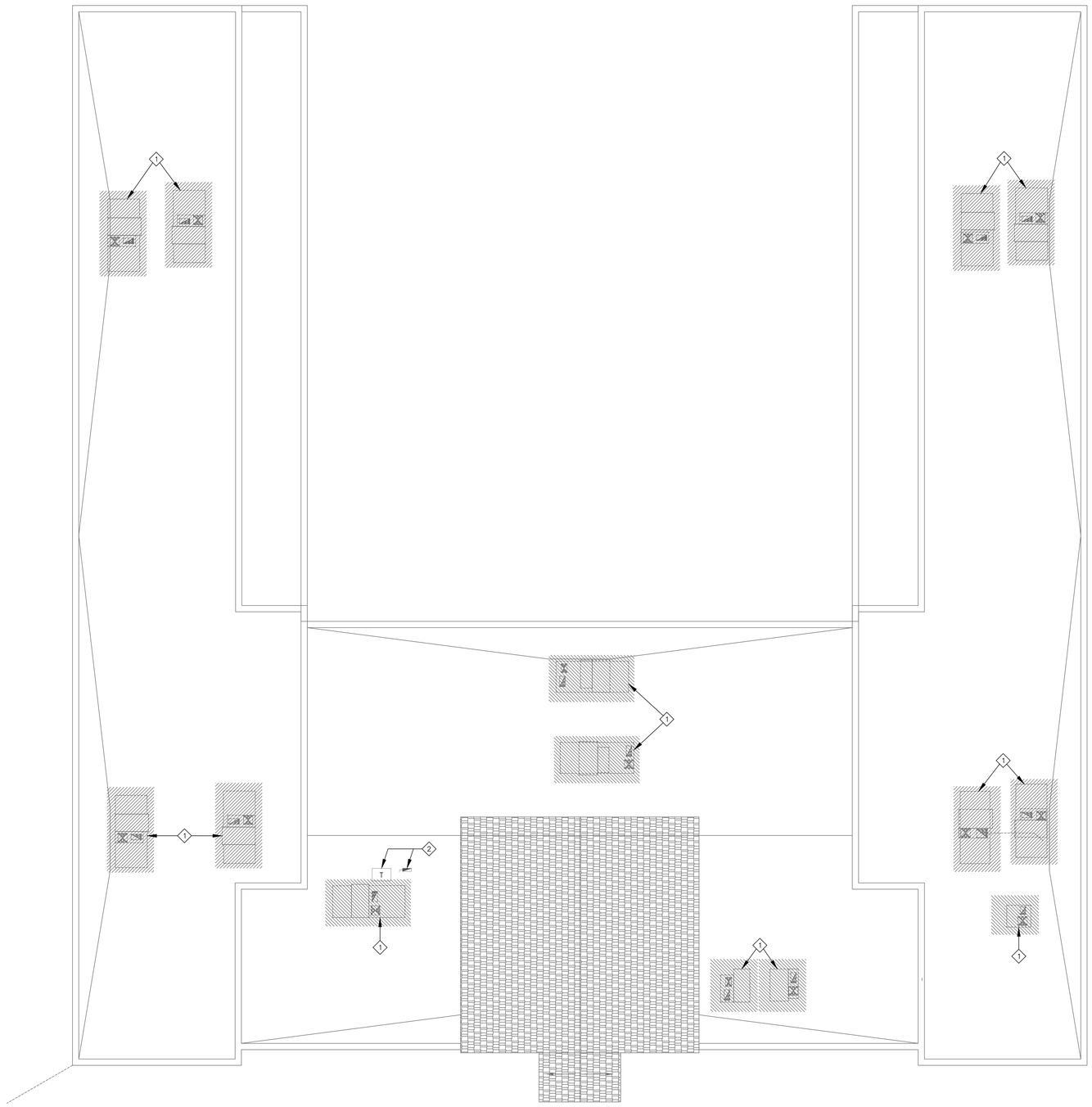
ELECTRICAL SITE PLAN

E-201



1 DEMOLITION ROOF PLAN - BUILDING A

DEMOLITION KEYED NOTES

1. DISCONNECT AND REMOVE DISCONNECT SWITCH AND CONDUIT/WIRES FROM DISCONNECT TO A/C UNIT. REMOVE WIRES IN HOMERUN CONDUIT UP TO SERVING PANEL. FEEDER CONDUIT TO REMAIN.
2. (E) TRANSFORMER AND DISCONNECT SWITCH INCLUDING ASSOCIATED WIRING TO REMAIN U.O.N.

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DEMOLITION ROOF PLAN - BUILDING A

E-301

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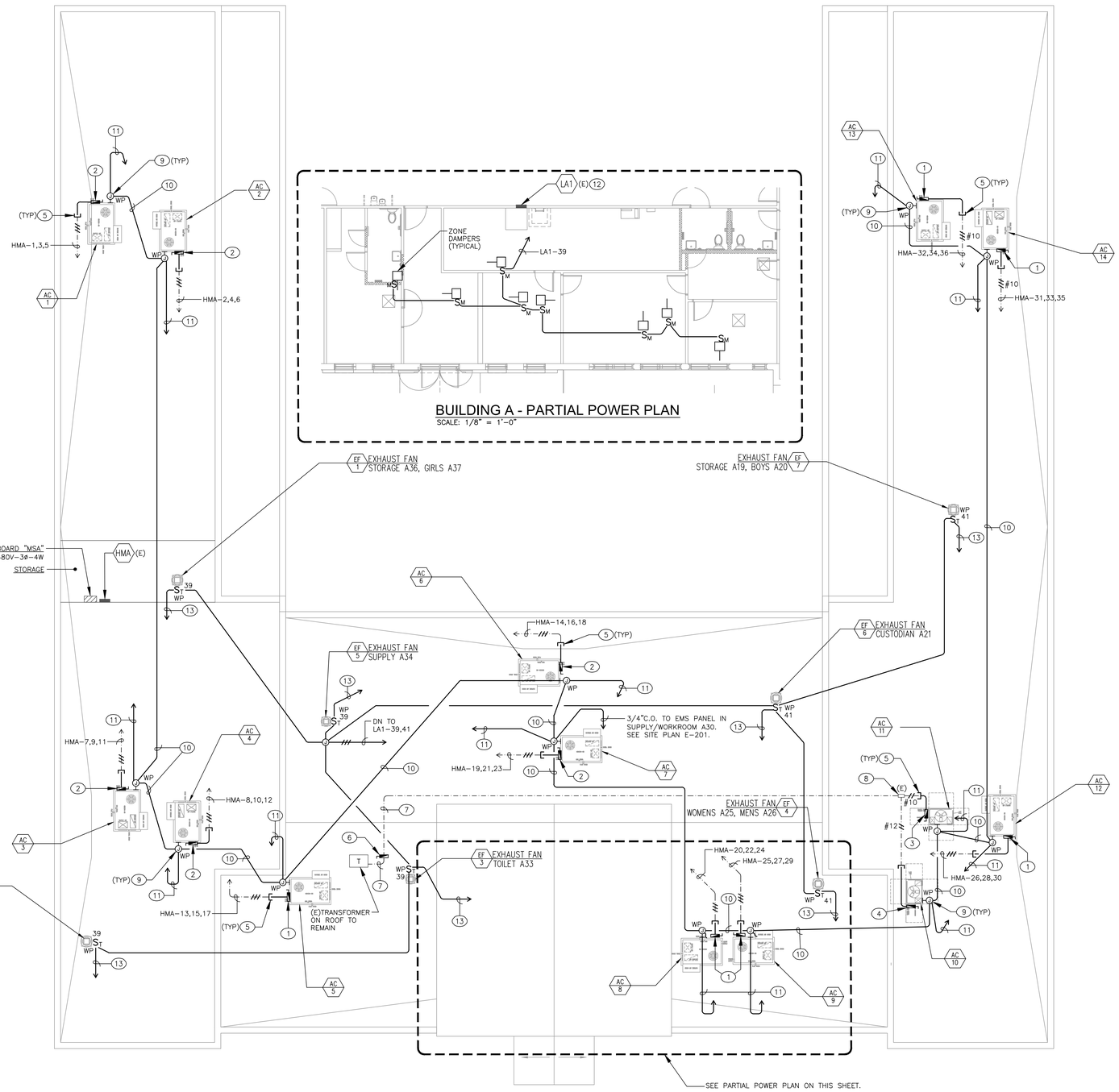
FILE NAME: _E301
SCALE: 1/8"=1'-0"



KEYED NOTES

1. WP 30AS, 3P, 600VAC DISCONNECT SWITCH WITH 15A DUAL ELEMENT FUSES.
2. WP 30AS, 3P, 600VAC DISCONNECT SWITCH WITH 20A DUAL ELEMENT FUSES.
3. WP 30AS, 2P, 250VAC DISCONNECT SWITCH WITH 25A DUAL ELEMENT FUSES.
4. WP 30AS, 2P, 250VAC DISCONNECT SWITCH WITH 20A DUAL ELEMENT FUSES.
5. INTERCEPT (E) 1"C AND EXTEND TO NEW WP DISCONNECT AND A/C UNIT. PROVIDE NEW WIRES IN (E) CONDUIT UP TO PANEL.
6. EXISTING WP 100AS-2P, 250VAC DISCONNECT SWITCH. REPLACE (E) FUSES WITH 70A FUSES.
7. REMOVE (E) WIRES IN (E) 1" CONDUIT AND PROVIDE (N) 2#4 & 1#8G.
8. SPLICE NEW WIRES INSIDE PULLBOX AND EXTEND (N) WIRES AS NOTED TO AC UNIT.
9. EXTEND AND TERMINATE CONDUIT TO A/C UNIT CONTROL COMPARTMENT FOR EMS CONTROL.
10. 3/4"C.O. FOR EMS CONTROLS. RUN CONDUIT INSIDE ATTIC.
11. 3/4"C.O. DOWN TO RESPECTIVE A/C THERMOSTAT BELOW. SEE MECHANICAL DRAWINGS FOR THERMOSTAT LOCATION.
12. PROVIDE (3)20A-1P CIRCUIT BREAKER AT (E) PANEL. MATCH TYPE AND A.I.C. RATING OF EXISTING BREAKERS.
13. 3/4"C- 2#12 & 1#12G DOWN TO (E) LIGHTS INSIDE TOILETS/ STORAGE/OR SUPPLY ROOM BELOW. INTERCEPT POWER TO EXISTING LIGHTS IN EACH ROOM AND PROVIDE 20A-1P RELAY FOR EXHAUST FAN INTERLOCK. SEE DETAIL ON SHEET E-103.

GENERAL NOTES

1. THE ENTIRE INSTALLATION ON ROOF SHALL BE WEATHERPROOF TYPE, INCLUDING BUT NOT LIMITED TO: RECEPTACLES, CONDUITS, DISCONNECTS, BOXES, ETC.
2. ALL CONDUCTORS INDICATED ON ROOF PLAN SHALL BE COPPER "THWN" TYPE.
3. EXISTING RECEPTACLES INCLUDING ASSOCIATED CONDUITS ON ROOF TO REMAIN. PROTECT IN PLACE.
4. VERIFY EXACT LOCATION OF FACTORY PREWIRED CONTROL PANEL MOUNTED ON A/C UNIT WITH MECHANICAL.
5. PROVIDE UNISTRUT MOUNTING SUPPORT TO DISCONNECT SWITCHES. PROVIDE CODE REQUIRED 3' WORKING CLEARANCE FOR DISCONNECT SWITCHES. SEE DISCONNECT SWITCH DETAILS 5,6/E-102.

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1 ROOF POWER PLAN - BUILDING A

FILE NAME: _E302
SCALE: 1/8"=1'-0"

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Exp. 06.30.2020
ELECTRICAL

SOUND MITIGATION PROGRAM
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633 South Oak Street Inglewood, CA 90301
A PROJECT FOR: INGLEWOOD UNIFIED SCHOOL DISTRICT

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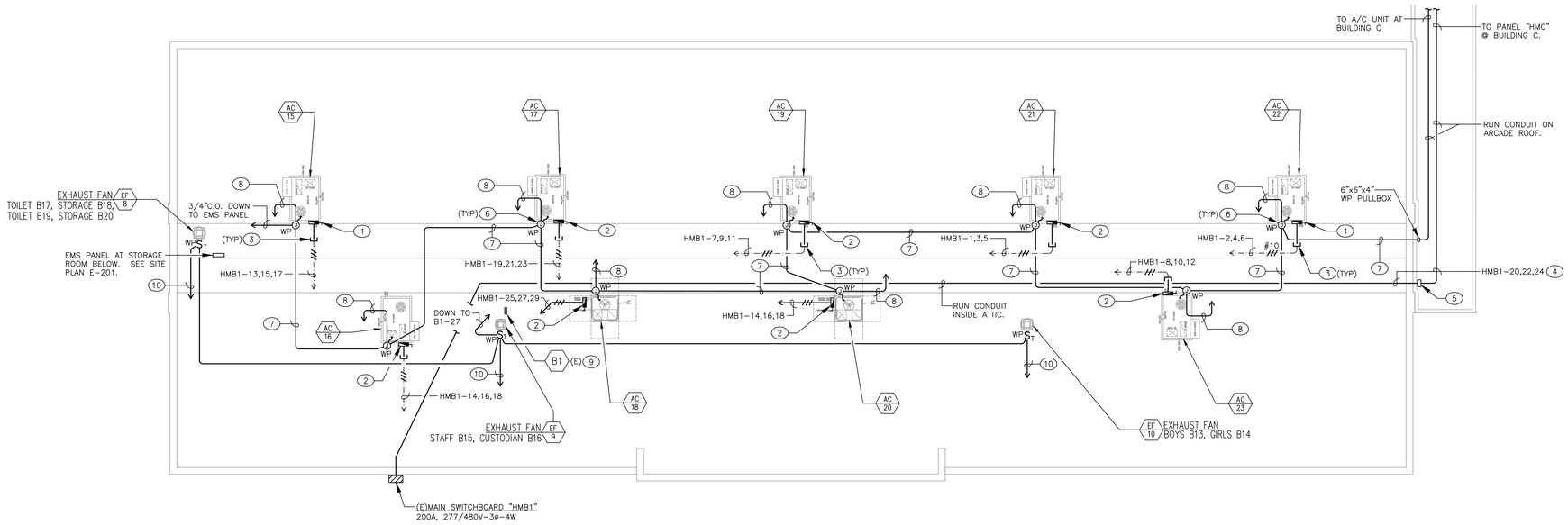
ROOF POWER PLAN - BUILDING A

E-302



2 ROOF POWER PLAN - BUILDING B

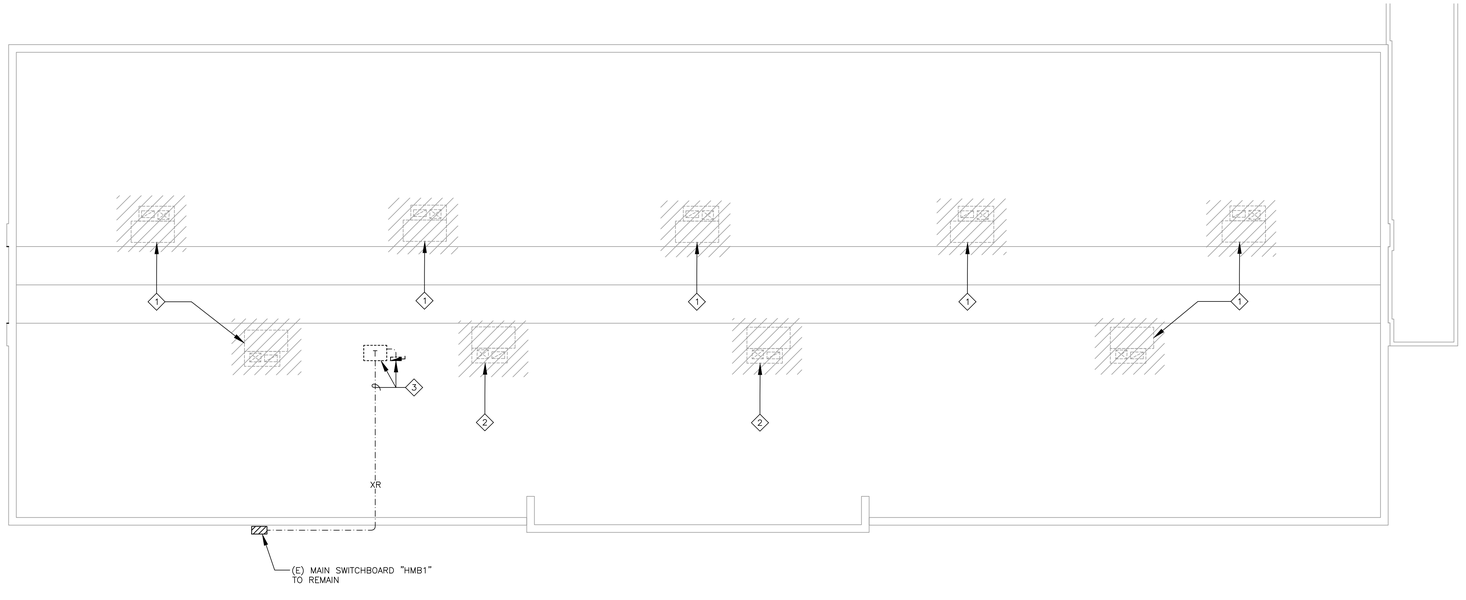
FILE NAME: _E303
SCALE: 1/8"=1'-0"

KEYED NOTES

1. WP 30AS-3P, 600VAC DISCONNECT SWITCH WITH 20A DUAL ELEMENT FUSES.
2. WP 30AS-3P, 600VAC DISCONNECT SWITCH WITH 15A DUAL ELEMENT FUSES.
3. INTERCEPT (E) 1"C AND EXTEND TO NEW WP DISCONNECT AND A/C UNIT. PROVIDE NEW WIRES IN (E) CONDUIT UP TO PANEL.
4. SEE SINGLE LINE DIAGRAM ON SHEET E-103 FOR FEEDER SIZE.
5. 12"x12"x6"D WP PULLBOX.
6. EXTEND AND TERMINATE CONDUIT TO AC CONTROL COMPARTMENT FOR EMS CONTROL.
7. 3/4"C.O. FOR EMS CONTROLS. RUN CONDUIT INSIDE ATTIC.
8. 3/4"C.O. DOWN TO RESPECTIVE A/C THERMOSTAT BELOW. SEE MECHANICAL DRAWINGS FOR THERMOSTAT LOCATION.
9. PROVIDE (1)20A-1P CIRCUIT BREAKER AT (E) PANEL. MATCH TYPE AND A.I.C. OF EXISTING BREAKERS.
10. 3/4"C-2#12 & 1#12G TO (E) LIGHT INSIDE TOILETS/STORAGE/OR SUPPLY ROOM BELOW. INTERCEPT POWER TO EXISTING LIGHTS IN EACH ROOM AND PROVIDE 20A-1P RELAY FOR EXHAUST FAN INTERLOCK. SEE DETAIL ON SHEET E-103.

GENERAL NOTES

1. THE ENTIRE INSTALLATION ON ROOF SHALL BE WEATHERPROOF TYPE, INCLUDING BUT NOT LIMITED TO: RECEPTACLES, CONDUITS, DISCONNECTS, BOXES, ETC.
2. ALL CONDUCTORS INDICATED ON ROOF PLAN SHALL BE COPPER "THWN" TYPE.
3. EXISTING RECEPTACLES INCLUDING ASSOCIATED CONDUITS ON ROOF TO REMAIN. PROTECT IN PLACE.
4. VERIFY EXACT LOCATION OF FACTORY PREWIRED CONTROL PANEL MOUNTED ON A/C UNIT WITH MECHANICAL.
5. PROVIDE UNISTRUT MOUNTING SUPPORT TO DISCONNECT SWITCHES. PROVIDE CODE REQUIRED 3' WORKING CLEARANCE FOR DISCONNECT SWITCHES. SEE DISCONNECT SWITCH DETAILS 5,6/E-102.



1 ROOF DEMOLITION PLAN - BUILDING B

FILE NAME: _E303
SCALE: 1/8"=1'-0"

DEMOLITION KEYED NOTES

1. DISCONNECT AND REMOVE DISCONNECT SWITCH AND CONDUIT/WIRES FROM DISCONNECT TO A/C UNIT. REMOVE WIRES IN HOMERUN CONDUIT UP TO SERVING PANEL. FEEDER CONDUIT TO REMAIN.
2. DISCONNECT AND REMOVE DISCONNECT SWITCH AND FEEDER UP TO SERVING PANEL.
3. DEMOLISHED (E) TRANSFORMER AND DISCONNECT SWITCH INCLUDING ASSOCIATED CONDUIT AND WIRES TO (E) SWITCHBOARD "HMB1".

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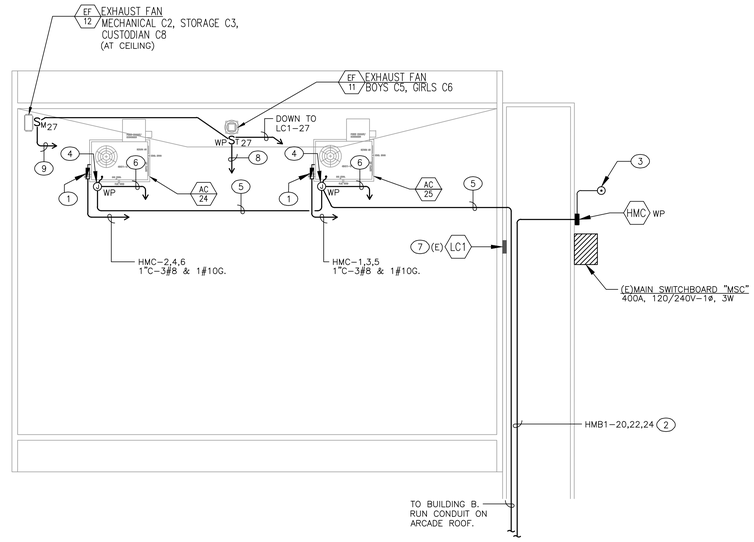
ROOF POWER & DEMO PLANS - BUILDING B

E-303



2 ROOF POWER PLAN - BUILDING C

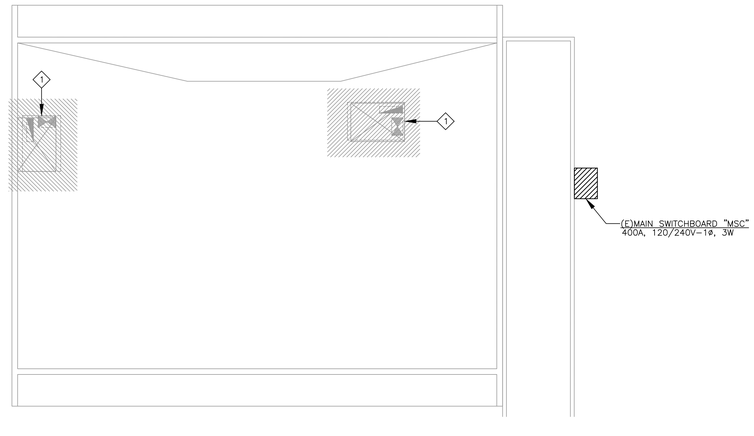
FILE NAME: _E304
SCALE: 1/8"=1'-0"

KEYED NOTES

1. WP, 60AS-3P, 460VAC DISCONNECT SWITCH WITH 35A DUAL ELEMENT FUSES. SEE DETAILS 5,6/E-102.
2. SEE SINGLE LINE DIAGRAM FOR FEEDER SIZE. RUN CONDUIT IN ARCADE ROOF.
3. GROUND ROD IN GROUND YARD BOX. SEE DETAIL 1/E-102.
4. EXTEND AND TERMINATE CONDUIT TO AC CONTROL COMPARTMENT FOR EMS CONTROL.
5. 3/4"C.O. FOR EMS CONTROLS. RUN CONDUIT INSIDE ATTIC.
6. 3/4"C.O. DOWN TO RESPECTIVE A/C THERMOSTAT BELOW. SEE MECHANICAL DRAWINGS FOR THERMOSTAT LOCATION.
7. UTILIZE (1)20A SPARE BREAKER (CKT 27) TO FEED NEW EXHAUST FANS.
8. 3/4"C-2#12 & 1#12G TO (E) LIGHT INSIDE TOILETS/STORAGE/OR SUPPLY ROOM BELOW. INTERCEPT POWER TO EXISTING LIGHTS IN EACH ROOM AND PROVIDE (1)20A-1P RELAY FOR EXHAUST FAN INTERLOCK. SEE DETAIL ON SHEET E-103.
9. 3/4"C-2#12 & 1#12G TO (E) LIGHTS INSIDE MECHANICAL, STORAGE AND CUSTODIAN. INTERCEPT POWER TO EXISTING LIGHTS IN EACH ROOM AND PROVIDE (1)20A-1P RELAY FOR EXHAUST FAN INTERLOCK. SEE DETAIL ON SHEET E-103.

GENERAL NOTES

1. THE ENTIRE INSTALLATION ON ROOF SHALL BE WEATHERPROOF TYPE, INCLUDING BUT NOT LIMITED TO: RECEPTACLES, CONDUITS, DISCONNECTS, BOXES, ETC.
2. ALL CONDUCTORS INDICATED ON ROOF PLAN SHALL BE COPPER "THWN" TYPE.
3. EXISTING RECEPTACLES INCLUDING ASSOCIATED CONDUITS ON ROOF TO REMAIN. PROTECT IN PLACE.
4. VERIFY EXACT LOCATION OF FACTORY PREWIRED CONTROL PANEL MOUNTED ON A/C UNIT WITH MECHANICAL.
5. PROVIDE UNISTRUT MOUNTING SUPPORT TO DISCONNECT SWITCHES. PROVIDE CODE REQUIRED 3' WORKING CLEARANCE FOR DISCONNECT SWITCHES. SEE DISCONNECT SWITCH DETAILS 5 & 6 ON E-102.



1 ROOF DEMOLITION PLAN - BUILDING C

FILE NAME: _E304
SCALE: 1/8"=1'-0"

DEMOLITION KEYED NOTES

1. DISCONNECT AND REMOVE DISCONNECT SWITCH AND FEEDER CONDUITS UP TO SERVING PANEL.

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SOUND MITIGATION PROGRAM

OAK STREET ELEMENTARY SCHOOL

633 South Oak Street Inglewood, CA 90301

A PROJECT FOR: INGLEWOOD UNIFIED SCHOOL DISTRICT

PROJECT NUMBER: 10292

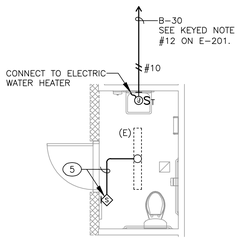
DRAWN:	HY
CHECKED:	PM

ISSUE/REVISION:

8/21/2018	30% - SCHEMATIC DESIGN
10/10/2018	50% CD SUBMITTAL
11/15/2018	100% CD - DSA SUBMITTAL
03/15/2019	DSA APPROVAL

ROOF POWER & DEMO PLANS - BUILDING C

E-304



5 RESTROOM B15-STAFF ELECTRICAL PLAN

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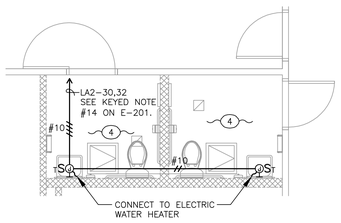

8 MENS A26 & WOMENS A25 ELECTRICAL PLAN

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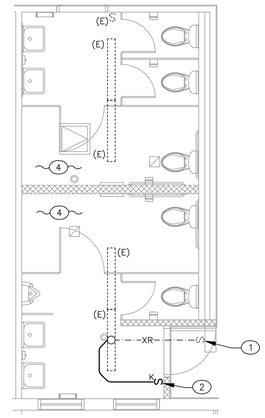

4 RESTROOM B13-BOYS & B14-GIRLS ELECTRICAL PLAN

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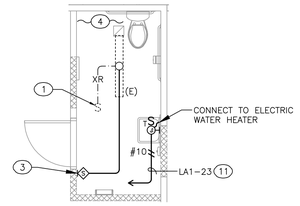
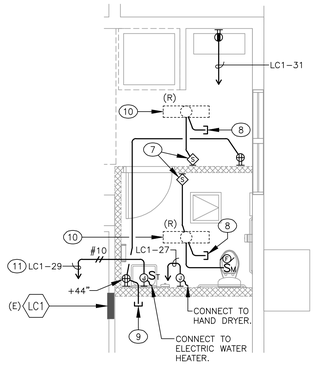


3 RESTROOM A33-NURSE ELECTRICAL PLAN

FILE NAME: _E305
SCALE: 1/4"=1'-0"

KEYED NOTES

1. DEMOLISH (E) SWITCH INCLUDING WIRES TO (E) LIGHTS AND PROVIDE NEW PER KEYED NOTE #2, #3, OR #7.
2. PROVIDE KEYED SWITCH TO CONTROL (E) LIGHTS. EXTEND WIRING TO EXISTING LIGHTS.
3. PROVIDE SENSOR SWITCH TO CONTROL (E) LIGHTS. EXTEND WIRING TO EXISTING LIGHTS.
4. EXISTING ELECTRICAL INSTALLATION IN THIS ROOM TO REMAIN U.O.N.
5. DISCONNECT AND REMOVE (E) SWITCH DUE TO WALL REMOVAL AND PROVIDE SENSOR SWITCH AT NEW WALL AND CONNECT TO (E) LIGHTS.
6. DISCONNECT AND REMOVE (E) LIGHT AND RE-INSTALL AT NEW LOCATION. SEE NEW PLAN.
7. PROVIDE SENSOR SWITCH TO CONTROL RELOCATED LIGHTS.
8. CONNECT TO (E) CIRCUIT FEEDING RELOCATED LIGHTS.
9. EXTEND WIRING AND CONNECT TO (E) RECEPTACLE INSIDE STORAGE ROOM C9.
10. NEW LOCATION OF (E) RELOCATED LIGHT.
11. REMOVE (E)(1)20A-1P CIRCUIT BREAKER AT PANEL AND PROVIDE (1)25A-1P CIRCUIT BREAKER.



7 TOILET C11 & VEST. C10 ELECTRICAL PLAN

FILE NAME: _E305
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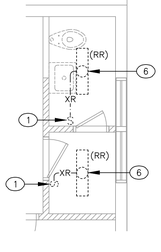

6 TOILET C11 & VEST. C10 DEMOLITION PLAN

FILE NAME: _E305
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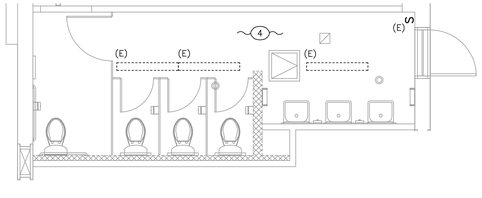

2 RESTROOM A37-GIRLS ELECTRICAL PLAN

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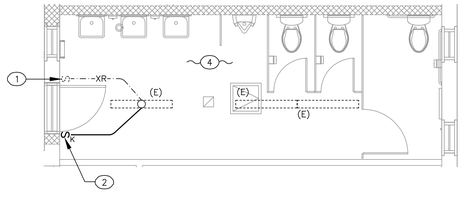

1 RESTROOM A20 -BOYS ELECTRICAL PLAN

FILE NAME: _E305
SCALE: 1/4"=1'-0"

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APP. 03-119485 INC:
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SS ☑ FLS ☑ ACS ☑
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STATE OF CALIFORNIA

INGLEWOOD UNIFIED SCHOOL DISTRICT

CORDOBA CORPORATION
SAN FRANCISCO • LOS ANGELES • SANTA ANA • SAN DIEGO

REGISTERED PROFESSIONAL ENGINEER
JIMMY L. FONG
No. E14126
Exp. 06.30.2021
ELECTRICAL
STATE OF CALIFORNIA

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05/23/2019	DSA APPROVAL

ENLARGED RESTROOM ELECTRICAL PLANS

E-305

FIRE ALARM SYMBOLS

———	CONDUIT: EXPOSED IN UNFINISHED AREAS; CONCEALED ABOVE CEILING OR IN WALL IN FINISHED AREAS.
— — —	CONDUIT: IN OR BELOW FLOOR OR BELOW GRADE.
▭	FIRE ALARM CONTROL PANEL.
▬	LIGHTING PANEL
(A)	PANEL DESIGNATION, LETTER IDENTIFIES THE PANEL.

AFF	ABOVE FINISHED FLOOR	CKT	CIRCUIT.
N.F.	NONFUSED.	AFG.	ABOVE FINISHED GRADE.
C/B	CIRCUIT BREAKER.	A.I.C.	AMPERE INTERRUPTING CURRENT.
U.O.N.	UNLESS OTHERWISE NOTED.	WP	WEATHERPROOF.
C.O.	CONDUIT ONLY WITH #12 PULL WIRE.	N.C.	NORMALLY CLOSED.
EOL	END OF LINE RESISTOR.	DPDT	DOUBLE POLE DOUBLE THROW.

"F" CABLE – "WEST PENN" NO. D990, 1 PAIR #18 UNSHIELDED – FIRE ALARM ADDRESSABLE LOOP.

"FW" CABLE – "WEST PENN" NO. AQ225, 1 PAIR #16 UNSHIELDED – FIRE ALARM ADDRESSABLE LOOP (UNDERGROUND).

"N" CABLE – 2#14 TWISTED UNSHIELDED PAIR CABLE SPEAKER CABLE, WET LOCATION TYPE IF UNDERGROUND.

"V" CABLE – 2#12 AWG CABLE.

"T" CABLE – 4 PAIR #24 UTP CAT–6 CABLE.

FATC	FIRE ALARM TERMINAL CABINET WITH TERMINAL STRIPS.	FA	FIRE ALARM
MFACP	MAIN FIRE ALARM CONTROL PANEL.	SPKR	SPEAKER.
MFATC	MAIN FIRE ALARM TERMINAL CABINET.	FCPS	FIELD CHARGE POWER SUPPLY.

A1–1 [1] V2–1 15cd — CKT # / #OF DEVICE — FIRE ALARM WALL MOUNTED SPEAKER WITH STROBE LIGHT, CANDELA RATING AS INDICATED. "96" TO TOP OF STROBE LIGHT. "A" DENOTES AUDIBLE FIRE ALARM SIGNAL CIRCUIT AND "V" DENOTE VISUAL FIRE ALARM SIGNAL CIRCUIT. "15cd" DENOTES CANDELA RATING. [1] DENOTE SPEAKER TAP WATTS. NO TAP WATT SUBSCRIPT MEANS "1/2" WATT TAP SPEAKER.

A1–1 [1] V2–1 — CEILING MOUNTED SPEAKER/STROBE, CANDELA RATING AS INDICATED. [1] DENOTE SPEAKER TAP WATTS. NO TAP WATT SUBSCRIPT MEANS "1/2" WATT TAP SPEAKER.

S1–1 F H — FIRE ALARM MANUAL PULL STATION. PROVIDE MONITOR MODULE TO EACH DEVICE, +48". "S1–1" DENOTES LOOP MODULE (SLC #1) IDENTIFICATION NUMBER.

WP A1–1 [2] — EXTERIOR W.P. FIRE ALARM SPEAKER. "A1–1" DENOTES AUDIBLE FA SIGNAL CIRCUIT NUMBER. [2] DENOTE SPEAKER TAP WATTS.

V2–1 15cd — FIRE ALARM WALL MOUNTED STROBE. MOUNT AT +96" TO TOP OF STROBE. CANDELA RATING AS INDICATED. "V2–1" DENOTES FIRE ALARM SIGNAL CIRCUIT NUMBER. "15cd" DENOTES 15cd CANDELA RATING.

V2–1 15cd — FIRE ALARM WALL CEILING STROBE. CANDELA RATING AS INDICATED. "V2–1" DENOTES FIRE ALARM SIGNAL CIRCUIT NUMBER. "15cd" DENOTES 15cd CANDELA RATING.

S1–1 — ADDRESSABLE SMOKE DETECTOR, PHOTOELECTRIC TYPE. "S1–1" DENOTES LOOP DETECTOR IDENTIFICATION NUMBER.

S1–1 — ADDRESSABLE HEAT DETECTOR MOUNTED IN ATTIC. "S1–1" DENOTES LOOP DETECTOR IDENTIFICATION NUMBER.

S1–1 — ADDRESSABLE HEAT DETECTOR MOUNTED IN CEILING. "S1–1" DENOTES LOOP DETECTOR IDENTIFICATION NUMBER.

S1–1 HD — ADDRESSABLE HEAT DETECTOR MOUNTED IN ATTIC. "S1–1" DENOTES LOOP DETECTOR IDENTIFICATION NUMBER. PROVIDE 18"x18" MIN. CEILING ACCESS PANEL. SEE ARCHITECTURAL DRAWING DETAIL 10/A651.

S1–1 M — MONITOR MODULE. "S1–1" DENOTES LOOP DETECTOR IDENTIFICATION NUMBER.

S1–1 CM — CONTROL MODULE. "S1–1" DENOTES LOOP DETECTOR IDENTIFICATION NUMBER.

CR — CONTROL RELAY.

WP B — FIRE ALARM BELL.

TS — TAMPER SWITCH.

FS — FLOW SWITCH.

——F——	3/4" CONDUIT WITH ONE "F" CABLE.
——2F——	3/4" CONDUIT WITH TWO "F" CABLES.
——F,V——	3/4" CONDUIT WITH ONE "F" CABLE & ONE "V" CABLE.
——F,N——	3/4" CONDUIT WITH ONE "F" CABLE & ONE "N" CABLE.
—2V,2N—	3/4" CONDUIT WITH TWO "V" CABLES & TWO "N" CABLES.
— 2V,F —	3/4" CONDUIT WITH TWO "V" CABLES & ONE "F" CABLE.
—F,V,N—	3/4" CONDUIT WITH ONE "F" CABLE, ONE "V" CABLE & ONE "N" CABLE.
—2F,V—	3/4" CONDUIT WITH TWO "F" CABLES & ONE "V" CABLE.
—2F,2V—	3/4" CONDUIT WITH TWO "F" CABLES & TWO "V" CABLES.
—2F,2N—	3/4" CONDUIT WITH TWO "F" CABLES & TWO "N" CABLES.
–2F,V,2N–	1" CONDUIT WITH TWO "F" CABLES, ONE "V" CABLE & TWO "N" CABLE.
–2F,2V,2N–	1" CONDUIT OR WITH TWO "F" CABLES, TWO "V" CABLES & TWO "N" CABLES.
——N——	3/4" CONDUIT WITH ONE "N" CABLE.
——2N——	3/4" CONDUIT WITH TWO "N" CABLES.
——2V——	3/4" CONDUIT WITH TWO "V" CABLES.
——F2——	3/4" CONDUIT WITH ONE "F" CABLE & 2#12.
———	3/4" CONDUIT WITH 2#12.
-////	3/4" CONDUIT WITH 4#12.
-////	3/4" CONDUIT WITH 6#12.

GENERAL NOTES

1. SEAL AND CAULK AS REQUIRED AT CONDUITS/PENETRATIONS.
2. EXPOSED CONDUITS AND BOXES SHALL BE PAINTED TO MATCH THE SURFACES WHERE INSTALLED.
3. THE SEISMIC ANCHORAGE OF MECHANICAL AND ELECTRICAL EQUIPMENT SHALL CONFORM TO ASCE 7–05 SECTION 13.3.1 AND TABLE 13.6–1. ANCHORAGE DETAILS FOR ROOF/FLOOR MOUNTED EQUIPMENT SHALL BE SHOWN ON PLANS.
4. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND EQUIPMENT AND MATERIAL APPROVED FOR USE UNDER THIS CONTRACT.
5. DRAWINGS DO NOT SHOW THE NECESSARY J–BOXES AND PULL BOXES WHICH WILL BE REQUIRED THROUGHOUT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THESE BOXES AS NECESSARY TO TERMINATE CONDUITS AND RACEWAYS. PAINT BOXES TO MATCH COLOR OF THE FINISHED SURFACE THAT THE BOXES ARE ATTACHED TO.
6. JUNCTION BOXES AND DEVICES INDICATED ON BUILDING EXTERIORS SHALL BE WEATHERPROOF TYPE.
7. SIGNAL WIRING IN UNDERGROUND CONDUITS SHALL BE WET LOCATION TYPE.
8. COORDINATION:
   A. THE CONTRACTOR SHALL COORDINATE LAYOUT DIMENSIONS INDICATED ON ELECTRICAL. DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER BEFORE BID TIME, OR BEFORE PROCEEDING WITH THE WORK.
   B. IN THE EVENT THAT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE CONSTRUCTION DOCUMENTS, THEN THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS SIMILAR CONDITIONS THAT ARE SHOWN.
   C. THE CONTRACTOR SHALL VERIFY ELECTRICAL, COMMUNICATION AND SECURITY REQUIREMENTS BEFORE CONSTRUCTION BEGINS.
9. BRACING OF DUCTS AND PIPINGS SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA GUIDELINES AS APPROVED BY DSA. WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECTED TO THE APPROVAL OF THE ARCHITECT, STRUCTURAL ENGINEER AND DSA FIELD ENGINEER. A COPY OF THE GUIDELINES PUBLISHED BY SMACNA AND APPROVED BY DSA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB SITE.
10. UNDERGROUND CONDUITS SHALL BE ENTIRELY ENCASED IN CONCRETE 3" THICK ON SIDES WITH MULTIPLE CONDUITS SPACED NOT LESS THAN 1–1/2" APART. MINIMUM DEPTH OF NOT LESS THAN 27" BELOW FINISHED GRADE TO THE TOP OF CONCRETE ENVELOPE.
11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE INTERMEDIATE BOXES ALONG CONDUIT RUNS AS NECESSARY TO TERMINATE CONDUITS AND RACEWAYS AND TO MEET CODE. PROVIDE ACCESS PANELS TO CONCEALED BOXES ABOVE HARD PLASTER CEILING. PAINT BOXES TO MATCH COLOR OF THE FINISHED SURFACE THAT THE BOXES ARE ATTACHED TO THE BUILDINGS. CONCEALED BOXES MAY NOT BE PAINTED.
12. WHEN FIRE ALARM DEVICES ARE INSTALLED AND PROGRAMMING IS COMPLETE, PROVIDE A ALARM DEVICE MAP IN THE SCHOOL MAIN OFFICE TO INDICATE TO SCHOOL PERSONNEL THE LOCATIONS OF THE F.A. DEVICES.
13. PROVIDE PROPER SIZE BACK–BOX FOR SURFACE MOUNTED FIRE ALARM DEVICES I.E. SPEAKER, SPEAKER/STROBES, STROBES, ETC. BOXES SHALL BE PER MANUFACTURER RECOMMENDATIONS.
14. THE FIRE ALARM SYSTEM SHALL CONFORM TO THE ARTICLE 760 OF THE CALIFORNIA ELECTRICAL CODE, CURRENT CALIFORNIA TITLE 24 REQUIREMENTS, 2016 CALIFORNIA FIRE CODE, 2016 NFPA 72 AND 101 STANDARDS, AMERICAN WITH DISABILITY ACT (ADA) REQUIREMENTS.
15. CONTRACTOR SHALL INSTALL AND FURNISH A COMPLETE ADDRESSABLE FIRE ALARM SYSTEM, INCLUDING BUT NOT LIMITED TO WIRING, CONDUITS AND DEVICES REQUIRED FOR SATISFACTORY OPERATION OF SYSTEM.
16. SUBMIT COMPLETED NFPA 72 INSPECTION & TESTING FORMS AND RECORD OF COMPLETION FORMS ALONG WITH UPDATED POINTS LIST.
17. JUNCTION BOXES SHALL NOT CONTAIN SPLICES. CONDUCTORS SHALL BE PULLED THROUGH. TERMINATIONS SHALL BE PERFORMED IN TERMINAL CABINETS ON TERMINAL BLOCKS OR ON EQUIPMENT TERMINALS.
18. "LABEL DESCRIPTIONS" INDICATING DEVICE TYPE AND LOCATION THAT ARE DISPLAYED ON THE FIRE ALARM LCD DISPLAY SHOULD BE CLEAR AND EASILY UNDERSTOOD BY THE OFFICE STAFF. DESCRIPTIONS SHOULD BE BASED ON THE STAFFS UNDERSTANDING OF THE SITE AND NOT ON INFORMATION TAKEN FROM PRINTS.
19. A DSA INSPECTOR WITH CLASS 1 CERTIFICATION IS REQUIRED FOR THIS PROJECT.
20. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE SCHOOL BOARD SHALL CONDUCT THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
21. WIRING SHALL NOT BE LOOPED THROUGH DEVICES, WIRES MUST BE CUT FOR IN AND OUT.
22. POINT AND COMMON ANNUNCIATOR AND T–TAPPING ARE PROHIBITED.
23. TERMINATIONS IN TERMINAL CABINET SHALL BE ON TERMINAL BLOCKS.
24. FIRE STROBES WHERE THREE OR MORE OR FLASHES FROM THREE OR MORE ARE VISIBLE FOR ANY ONE POINT MUST BE SYNCHRONIZED UNLESS SEPARATED BY A MINIMUM OF 55 FEET. WIRING AND HARDWARE CONFIGURATION FOR FIRE STROBES IN A COMMON SPACE MUST BE PERFORMED CAREFULLY SINCE FEEDING STROBES FROM DIFFERENT CIRCUITS OF DIFFERENT REMOTE POWER SUPPLIES OR SYNCHRONIZATION MODULES MAY CAUSE A CONDITION WHERE WITHIN THE SAME SPACE SYNCHRONIZATION IS LOST DUE TO DIFFERENT POWER SOURCES AND SYNCHRONIZATION TIMING. THE TRIGGER CIRCUIT FOR AUDIBLE SIGNALS SHOULD BE FROM THE FACP TO ENSURE SYNCHRONIZATION. AUDIBLE SIGNALS MUST BE SYNCHRONIZED WITHIN THE SAME NOTIFICATION ZONE. 2016 NFPA 72 CHAPTER 8.
25. EXPANSION JOINTS–SEISMIC SEPARATIONS BETWEEN BUILDINGS SHALL BE PROVIDED WITH COMBINATION DEFLECTION/ EXPANSION FITTINGS AND SHALL COMPLY WITH SPECIFICATIONS WHETHER SHOWN ON DRAWINGS OR NOT.
26. HEAT DETECTOR WHERE INSTALLED ABOVE SUSPENDED CEILING SHALL HAVE THEIR LOCATIONS BE CLEARLY MARK BELOW THE CEILING AND BE ACCESSIBLE. PROVIDE P–TOUCH LABEL 1" WIDE WITH RED LETTERING. TAGS SHALL INDICATE NAME OF DEVICE.
27. ALL TRENCHES OUTSIDE OF THE BARRICADE LIMITS SHALL BE BACKFILLED AND PAVED NOT LATER THAN 72 HOURS AFTER BEING OPENED. DURING THE TIME THE TRENCHES ARE OPEN IN TRAFFIC AREAS, THE CONTRACTOR SHALL PROVIDE TRAFFIC PLATES.
28. WHEN TRENCHING FOR NEW UNDERGROUND CONDUIT, EXERCISE EXTREME CARE TO AVOID DAMAGE TO EXISTING UNDERGROUND UTILITIES. CONTRACTOR IS RESPONSIBLE FOR REPAIR OF ALL DAMAGED LINES.
29. CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE EXISTING OR NEW STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED ON THE DRAWINGS OR APPROVED BY THE ARCHITECT, STRUCTURAL ENGINEER AND DSA FIELD ENGINEER.
30. ALL DEMOLISHED ELECTRICAL EQUIPMENT & DEVICES WITH SALVAGE VALUE AS DETERMINED BY THE DISTRICT SHALL BE DELIVERED TO DISTRICT WAREHOUSE WITHOUT EXTRA COST TO THE DISTRICT.
31. REPLACE ALL DAMAGE CEILING TILE DUE TO NEW POWER & SIGNAL INSTALLATION. MATCH EXISTING TILE AND FINISH.
32. INCLUDE ALL ELECTRICAL DEMOLITION AS PART OF THIS CONTRACT. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT OF WALL REMOVALS. CEILING CHANGES AND ALL OTHER SIMILAR WORK. ELECTRICAL DEMOLITION SHALL INCLUDE DISCONNECTION AND REMOVAL OF AFFECTED LIGHTS. OUTLETS AND ALL OTHER ELECTRICAL DEVICES. REMOVE AND PLUG OR CAP ALL AFFECTED CONDUITS. REMOVE WIRES. IF REMOVED OUTLETS AFFECT DOWNSTREAM ACTIVE OUTLETS. PROVIDE ALL WORK NECESSARY TO REROUTE AND RECONNECT AFFECTED CIRCUITS.

CODES, STANDARDS & GUIDES

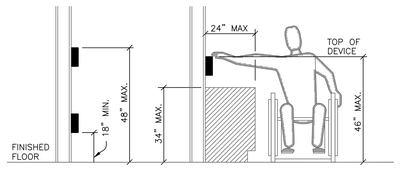
PARTIAL LIST OF APPLICABLE CODES AS OF January 1, 2017

2016 California Administrative Code, Part 1, Title 24 C.C.R.*
2016 California Building Code (CBC), Part 2, Title 24 C.C.R.
(2015 International Building Code Volumes 1–2 and 2013 California Amendments)
2016 California Electrical Code (CEC), Part 3, Title 24 C.C.R.
(2014 National Electrical Code and 2016 California Amendments)
2016 California Mechanical Code (CMC) Part 4, Title 24 C.C.R.
(2015) Uniform Mechanical Code and 2016 California Amendments)
2016 California Plumbing Code (CPC), Part 5, Title 24 C.C.R.
(2015) Uniform Plumbing Code and 2016 California Amendments)
2016 California Energy Code (CEC), Part 6, Title 24 C.C.R.*
2016 California Fire Code, Part 9, Title 24 C.C.R.
(2015 International Fire Code and 2016 California Amendments)
2016 California Green Building Standards Code, Part 11, Title 24 C.C.R.
2016 California Referenced Standards, Part 12, Title 24 C.C.R.
Title 19 C.C.R., Public Safety, State Fire Marshal Regulations.
2007 ASME A17.1(w/ A17.1a/CSA B44a–08 addenda) Safety Code For Elevators And Escalators

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13	Automatic Sprinkler Systems	2016 Edition
NFPA 14	Standpipe Systems	2016 Edition
NFPA 17	Dry Chemical Extinguishing Systems	2016 Edition
NFPA 17a	Wet Chemical Systems	2016 Edition
NFPA 20	Stationary Pumps	2016 Edition
NFPA 22	Water tanks for Private Fire Protection	2016 Edition
NFPA 24	Private Fire Mains	2016 Edition
NFPA 72	National Fire Alarm Code	2016 Edition
NFPA 80	Fire doors and Other Opening Protectives	2016 Edition
NFPA 92	Standard for Smoke Control Systems	2012 Edition
NFPA 253	Critical Radiant Flux of Floor Covering Systems	2015 Edition
NFPA 2001	Clean Agent Fire Extinguishing Systems	2015 Edition
ICC 300	ICC Standards on Bleachers, Folding and Telescoping Seating and Grand stands	2012 Edition
UL 300	Fire Testing of Fire Extinguishing Systems for Protection Of Restaurant Cooking Areas	2005 Edition
UL 464	Audible Signal Appliances	2003 Edition
UL 521	Heat Detectors for Fire Protective Signaling Systems	1999 Edition

Reference code section for NFPA Standards– 2013 CBC (SFM) Chapter 35. See Chapter 35 for State of California amendments to NFPA Standards.



MOUNTING HEIGHTS OVER OBSTRUCTION

MOUNTING HEIGHTS

SCALE : N.T.S. OUTLETS, INTERCOM, CONTROLS, ETC.

TYPICAL MOUNTING HEIGHTS ABOVE FINISHED FLOOR (UNLESS OTHERWISE NOTED ON DRAWINGS)

+48": LIGHT SWITCHES, FIRE ALARM PULL STATION, T–STATS, WALL TELEPHONE & SECURITY TO TOP OF SWITCH OR CONTROL BOX.

+15": ALL DUPLEX RECEPTACLES, WALL OUTLET FOR DESK TELEPHONE, COMPUTER OUTLET, UNLESS OTHERWISE NOTED TO BOTTOM OF OUTLET BOX.

GENERAL FIRE ALARM NOTES

1. THE SYSTEM SHALL CONFORM TO CALIFORNIA CODE OF REGULATIONS (CCR) TITLES 19 & 24 AS APPLICABLE TO THIS PROJECT.
2. UPON COMPLETION OF SYSTEM INSTALLATION, THE SYSTEM SHALL BE TESTED IN THE PRESENCE OF AND IN A MANNER ACCEPTABLE TO DSA/IOR. CONTRACTOR TO SUPPLY NECESSARY TESTING EQUIPMENT INCLUDING A "DECIMETER" TO CHECK ACCEPTABLE NOISE LEVELS OF AUDIBLE DEVICES, PROVIDE TEST RESULTS PER NFPA 72 TO ARCHITECT,DSA, INSPECTOR OF RECORD, OWNER AND TO THE LOCAL FIRE AUTHORITY.
3. PENETRATIONS OF FIRE–RATED WALLS SHALL BE PROTECTED IN ACCORDANCE WITH THE CALIFORNIA BUILDING CODE, PART 2.
4. RECORD RECEIPT OF SIGNALS TO CENTRAL STATION MONITOR.
5. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR A CHANGE ORDER APPROVED BY THE OFFICE OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4–338, PART 1, TITLE 24, CCR.
6. A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE OFFICE OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4–342, PART 1, TITLE 24, CCR.
7. EXISTING FIRE ALARM SYSTEM MUST REMAIN IN PLACE AND MUST BE OPERATIONAL AT ALL TIMES UNTIL NEW SYSTEM IS IN PLACE. CONTRACTOR TO PROVIDE FIRE WATCH WHEN SYSTEM IS INTERRUPTED OR DISCONNECTED AND SHALL BE RECONNECTED AND FULLY OPERATIONAL AFTER WORKING HOURS.

FIRE ALARM SYSTEM DESCRIPTION
FIRE ALARM SUBMITTAL CONSISTS OF COMPLETE FULLY AUTOMATIC FIRE ALARM SYSTEM AT THE ENTIRE SCHOOL. PER DSA POLICY CFC 907.2.3.

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-119485 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 8/14/2019

CANNONDESIGN
gkkworks
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LICENSED ARCHITECT
JAVAN NABILI
NO. C24035
REN: 7.31.21
STATE OF CALIFORNIA

INGLEWOOD UNIFIED SCHOOL DISTRICT

CORDOBA CORPORATION
SAN FRANCISCO • LOS ANGELES • SANTA ANA • SAN DIEGO

REGISTERED PROFESSIONAL ENGINEER
JIMMY L. FONG
No. E14126
EXP. 06/30/2021
ELECTRICAL
STATE OF CALIFORNIA

SOUND MITIGATION PROGRAM

OAK STREET ELEMENTARY SCHOOL
633 South Oak Street Inglewood, CA 90301

A PROJECT FOR: INGLEWOOD UNIFIED SCHOOL DISTRICT

PROJECT NUMBER: 10292

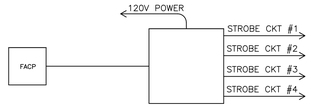
DRAWN: HY
CHECKED: PM

ISSUE/REVISION:

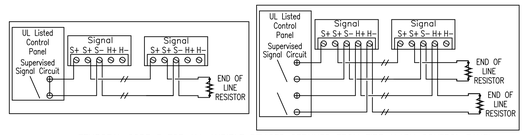
8/21/2018	30% - SCHEMATIC DESIGN
10/10/2018	50% CD SUBMITTAL
11/15/2018	100% CD - DSA SUBMITTAL
03/15/2019	DSA APPROVAL

FA SYMBOL LIST, NOTES AND CODES

E-601

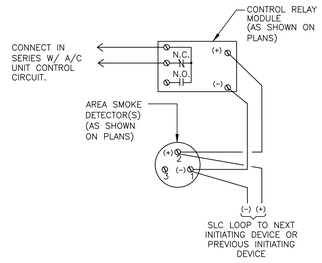


9 / E-602 **FCPS-24S6 POWER EXTENDER WIRING DIAGRAM**
N.T.S.

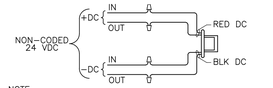


TEMPORAL CODE 3 FOR ALL AUDIBLE DEVICES OBTAINED FROM FIRE ALARM CONTROL PANEL.

5 / E-602 **DUAL INPUT SPEAKER/STROBE WIRING DIAGRAM**
N.T.S.



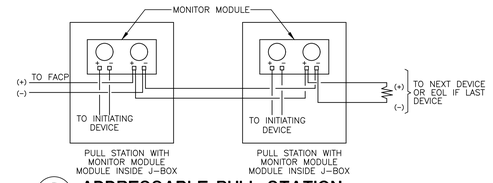
8 / E-602 **TYPICAL A/C UNIT SHUT DOWN CONTROLS**
N.T.S.



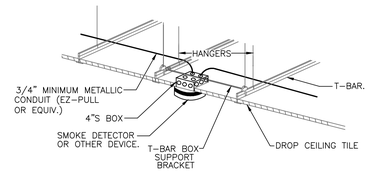
NOTE:
NOTIFICATION APPLIANCE IS RATED PER INDIVIDUAL NAMEPLATE.

VISUAL WIRING DIAGRAM

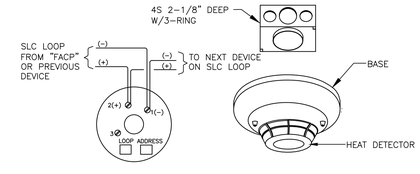
4 / E-602 **STROBE LIGHT**
N.T.S.

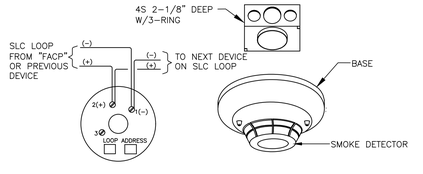


3 / E-602 **ADDRESSABLE PULL STATION**
N.T.S.

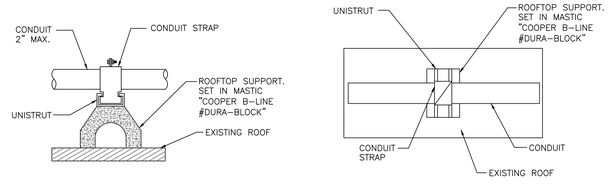


2 / E-602 **TYPICAL (SMOKE/HEAT DETECTOR) CEILING MOUNT INSTALLATION DETAIL**
N.T.S.



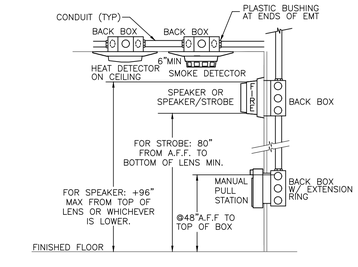


1 / E-602 **SMOKE AND HEAT DETECTORS DETAIL WIRING**
N.T.S.

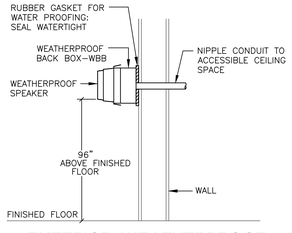


TOP VIEW

11 / E-602 **CONDUIT SUPPORT ON ROOF**
N.T.S.

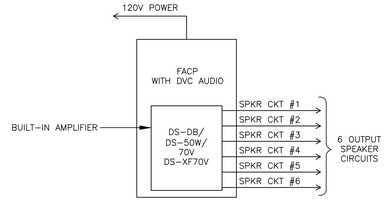


7 / E-602 **PULL STATION, SPEAKER AND STROBE HEIGHT REQUIREMENTS**
N.T.S.



10 / E-602 **EXTERIOR WEATHERPROOF SPEAKER MOUNTING DETAIL**
N.T.S.

NOTE: MOUNT EXTERIOR WEATHERPROOF SPEAKER AT +96" FROM FINISHED FLOOR TO BOTTOM OF DEVICE.



6 / E-602 **F.A. VOICE EVAC SPEAKER WIRING DIAGRAM**
N.T.S.

FIRE ALARM SYSTEM DESCRIPTION
FIRE ALARM SUBMITTAL CONSISTS OF COMPLETE FULLY AUTOMATIC FIRE ALARM SYSTEM AT THE ENTIRE SCHOOL. PER DSA POLICY CFC 907.2.3.

PACIFIC ENGINEERS GROUP
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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-119485 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 8/14/2019

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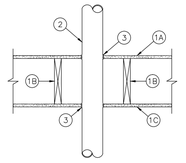
FIRE ALARM DETAILS

E-602



SYSTEM NO. FC1002
(FORMERLY SYSTEM NO. 169)
F RATINGS–1 AND 2 HR(SEE ITEM 1)
T RATING–1 Hr

6 E-603

FLOOR/CEILING PENETRATION DETAIL

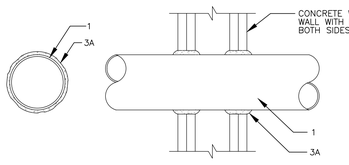
1. FLOOR–CEILING ASSEMBLY –– THE 1 OR 2 HR FIRE–RATED WOOD JOINT FLOOR–CEILING ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE UL FIRE RESISTANCE DIRECTORY. THE 1 HR FIRE RATED ASSEMBLY SHALL BE CONSTRUCTED AS SPECIFIED IN DESIGN NO. L501, L512 OR L537. THE 2 HR FIRE RATED ASSEMBLY SHALL BE CONSTRUCTED AS SPECIFIED IN DESIGN NO. L505, L511 OR L536. THE F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE FIRE RATING SYSTEM IS EQUAL TO THE FIRE RATING OF THE FLOOR–CEILING ASSEMBLY. THE GENERAL CONSTRUCTION DETAILS OF THE FLOOR–CEILING ASSEMBLY ARE

   SUMMARIZED BELOW:
   A. FLOORING SYSTEM – LUMBER OR PLYWOOD SUBFLOOR WITH FINISH FLOOR OF LUMBER, PLYWOOD OR FLOOR TOPPING MIXTURE* AS SPECIFIED IN THE INDIVIDUAL FLOOR–CEILING DESIGN. MAX DIAMETER OF OPENING IS 5 INCHES.
   B. WOOD JOISTS – NOM 2 BY 10 INCH LUMBER JOISTS 18 INCHES O.C. WITH NOM 1 BY 3 INCH LUMBER BRIDGING AND WITH ENDS FIRESTOPPED.
   C. FURRING CHANNELS (NOT SHOWN) – RESILIENT GALVANIZED STEEL FURRING CHANNELS INSTALLED PERPENDICULAR TO WOOD JOISTS BETWEEN FIRST AND SECOND LAYERS OF WALLBOARD (ITEM 1D) IN 2 HR FIRE RATED ASSEMBLY. FURRING CHANNELS SPACED MAX 24 INCHES O.C.
   D. WALLBOARD, GYPSUM* – NOM 4 FT WIDE BY 5/8 INCHES THICK AS SPECIFIED IN THE INDIVIDUAL FLOOR–CEILING DESIGN. FIRST LAYER OF WALLBOARD NAILED TO WOOD JOISTS. SECOND LAYER OF WALLBOARD (2 HR FIRE RATED ASSEMBLY ONLY) SCREW–ATTACHED TO FURRING CHANNELS.

1.1 CHASE WALL (OPTIONAL, NOT SHOWN) – THE THROUGH PENETRANTS (ITEM NO. 2) MAY BE ROUTED THROUGH A FIRE–RATED SINGLE OR DOUBLE WOOD STUD/GYPSUM WALLBOARD CHASE WALL CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS – NOM 2 BY 6 INCH OR DOUBLE NOM 2 BY 4 INCH LUMBER STUDS.
   B. SOLE PLATE – NOM 2 BY 6 INCH OR PARALLEL 2 BY 4 INCH LUMBER PLATES.
   C. TOP PLATE – THE DOUBLE TOP PLATE SHALL CONSIST OF TWO NOM 2 BY 6 INCH OR TWO SETS OF PARALLEL 2 BY 4 INCH LUMBER PLATES.
   D. WALLBOARD, GYPSUM* – THICKNESS, TYPE, NUMBER OF LAYERS AND FASTENERS SHALL BE AS SPECIFIED IN INDIVIDUAL WALL AND PARTITION DESIGN. WHEN DOUBLE STUD CONSTRUCTION IS USED, EACH STUD CAVITY CONTAINING A PIPE (ITEM 3) SHALL BE LINED WITH WALLBOARD SUCH THAT THE PIPE IS SURROUNDED ON FOUR SIDES BY WALLBOARD.

2. METAL PIPE, CONDUIT OR TUBING – NOM 4 INCHES IN DIAMETER (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE, RIGID STEEL CONDUIT OR STEEL EMT. MAX DIAMETER OF OPENING TO BE 1/2 INCHES LARGER THAN OUTSIDE DIAMETER OF STEEL PIPE, CONDUIT OR EMT PIPE, CONDUIT OR EMT TO BE INSTALLED APPROXIMATELY MIDWAY BETWEEN WOOD JOISTS AND CENTERED IN CIRCULAR OPENINGS SUCH THAT A 1/4 INCH ANNULAR SPACE IS PRESENT AROUND ITS PERIMETER AT EACH THROUGH OPENING LOCATION.
3. FILL, VOID OR CAVITY MATERIAL* – CAULK – CAULK FILL MATERIAL FORCED INTO ANNULAR SPACES TO FILL SPACES TO MAXIMUM EXTENT POSSIBLE AND WITH MINIMUM 1/4 INCH HIGH BY 3/8 INCH WIDE BEAD OF CAULK APPLIED TO THE PERIMETER OF THE PIPE, CONDUIT OR TUBING AT ITS EGRESS FROM THE FINISH FLOOR AND CEILING OR SOLE AND TOP PLATE OF CHASE WALL.

* BEARING THE UL CLASSIFICATION MARKING.



5 E-603

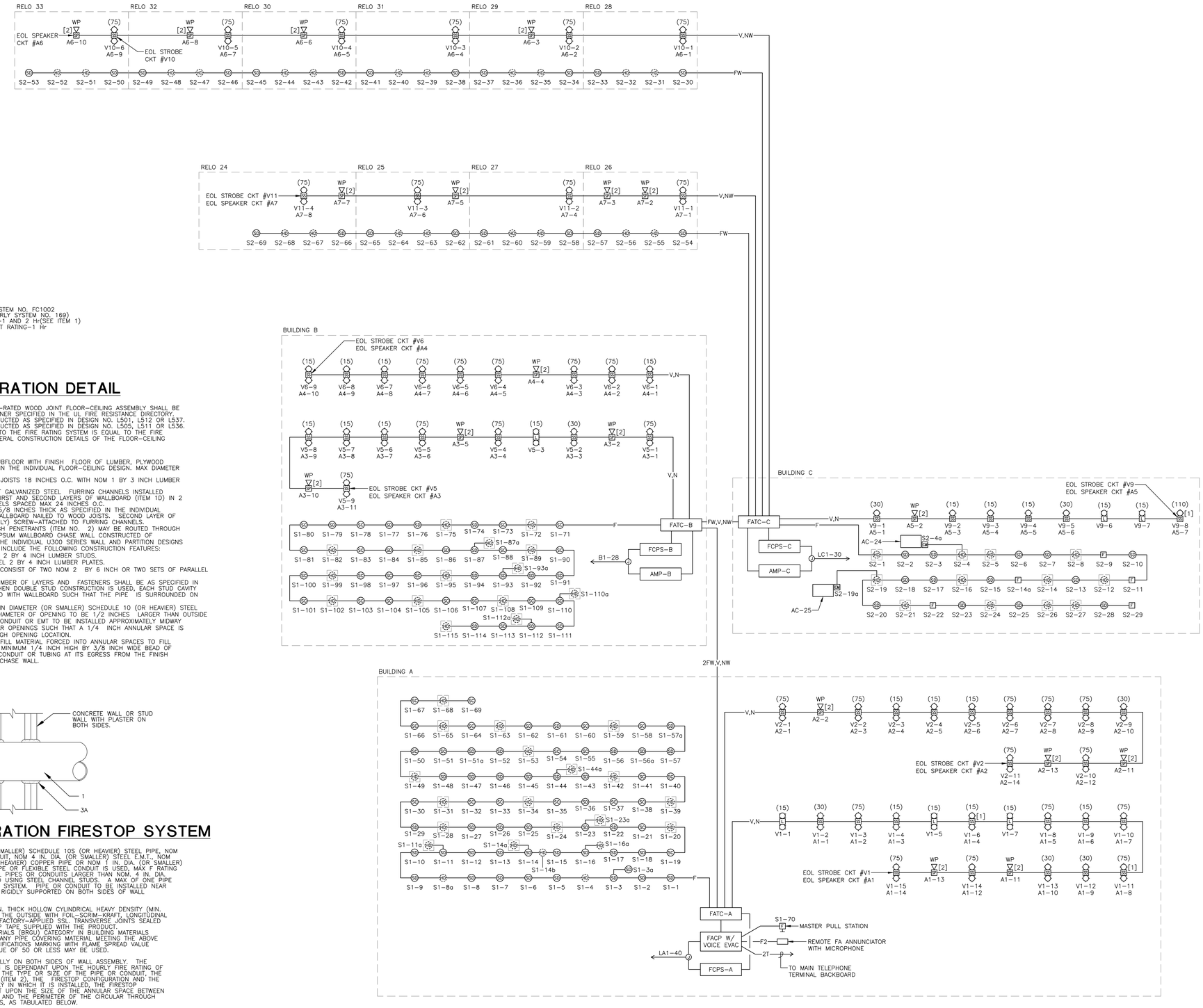
THROUGH - PENETRATION FIRESTOP SYSTEM

1. PIPE OR CONDUIT – NOM 12 IN. DIA. (OR SMALLER) SCHEDULE 10S (OR HEAVIER) STEEL PIPE, NOM 6 IN. DIA. (OR SMALLER) RIGID STEEL CONDUIT, NOM 4 IN. DIA. (OR SMALLER) STEEL E.M.T., NOM 4 IN. DIAMETER (OR SMALLER) TYPE L (OR HEAVIER) COPPER PIPE OR NOM 7 IN. DIA. (OR SMALLER) FLEXIBLE STEEL CONDUIT. WHEN COPPER PIPE OR FLEXIBLE STEEL CONDUIT IS USED, MAX F RATING OF FIRESTOP SYSTEM (ITEM 3) IS 2H. STEEL PIPES OR CONDUITS LARGER THAN NOM. 4 IN. DIA. MAY ONLY BE USED IN WALLS CONSTRUCTED USING STEEL CHANNEL STUDS. A MAX OF ONE PIPE OR CONDUIT IS PERMITTED IN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE INSTALLED NEAR CENTER OF STUD CAVITY WIDTH AND TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.
2. PIPE COVERING –(OPTIONAL) NOM 1 OR 2 IN. THICK HOLLOW CYLINDRICAL HEAVY DENSITY (MIN. 3.5 PCF) GLASS FIBER UNITS JACKETED ON THE OUTSIDE WITH FOIL–SCRIM–KRAFT, LONGITUDINAL JOINTS SEALED WITH METAL FASTENERS OR FACTORY–APPLIED SSL. TRANSVERSE JOINTS SEALED WITH METAL FASTENERS OR WITH BUTT STRIP TAPE SUPPLIED WITH THE PRODUCT. SEE PIPE AND EQUIPMENT COVERINGS–MATERIALS (BRGU) CATEGORY IN BUILDING MATERIALS DIRECTORY FOR NAMES OF MANUFACTURERS. ANY PIPE COVERING MATERIAL MEETING THE ABOVE SPECIFICATIONS AND BEARING THE UL CLASSIFICATIONS MARKING WITH FLAME SPREAD VALUE 25 OR LESS AND A SMOKE DEVELOPED VALUE OF 50 OR LESS MAY BE USED.
3. FIRESTOP SYSTEMS – INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDANT UPON THE HOURLY FIRE RATING OF THE FIRESTOP SYSTEM IS DEPENDANT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT, THE ABSENCE OR PRESENCE OF PIPE COVERING (ITEM 2), THE FIRESTOP CONFIGURATION AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED. THE FIRESTOP CONFIGURATION (A,B,C, OR D) IS DEPENDENT UPON THE SIZE OF THE ANNULAR SPACE BETWEEN THE PIPE OR CONDUIT (OR PIPE COVERING) AND THE PERIMETER OF THE CIRCULAR THROUGH OPENING IN THE GYPSUM WALLBOARD LAYERS, AS TABULATED BELOW.

MAX PIPE OR CONDUIT DIA. IN.	NOM PIPE COVERING THKNS IN.	ANNULAR SPACE IN.	FIRESTOP CONFIG. (A)	F RATING, HR.	T RATING HR.
1	NONE	0 TO 3/16	A	1 OR 2	0 + 1 OR 2
1	NONE	1/4 TO 1/2	A	3 OR 4	3 OR 4
4	NONE	0 TO 1/4	A	1 OR 2	0
6	NONE	1/4 TO 1/2	A	3 OR 4	0
12	NONE	3/16 TO 3/8	A	1 OR 2	0

+ WHEN COPPER PIPE IS USED, T RATING IS 0h.
(A)A INDICATES FIRESTOP CONFIGURATION, AS DESCRIBED IN THE FOLLOWING:

A. FILL VOID OR CAVITY MATERIAL–CAULK – CAULK FILL MATERIAL INSTALLED TO COMPLETELY FILL ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND GYPSUM WALLBOARD AND WITH A MIN. 1/4 IN. DIA. BEAD OF CAULK APPLIED TO PERIMETER OF PIPE OR CONDUIT AS IT EGRESS FROM THE WALL. MINNESOTA MINING & MANUFACTURING–TYPES CP–25 S/L, CP–25 N/S, CP–25 W/B.(UL #WL1001)



FIRE ALARM RISER DIAGRAM

N.T.S.

FIRE ALARM SYSTEM DESCRIPTION
FIRE ALARM SUBMITTAL CONSISTS OF COMPLETE FULLY AUTOMATIC FIRE ALARM SYSTEM AT THE ENTIRE SCHOOL. PER DSA POLICY CFC 907.2.3.

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FA RISER DIAGRAM & FA DETAILS

E-603

BATTERY CALCULATIONS – POWER EXTENDER FCPS-A

EQUIPMENT MODEL	QUANTITY	SUPERVISORY CURRENT, A UNIT	SUPERVISORY CURRENT, A TOTAL	ALARM CURRENT, A UNIT	ALARM CURRENT, A TOTAL
POWER SUPPLY FCPS-24S6	1	0.166	0.166	0.166	0.166
95cd ALARM STROBE LIGHT 24 VDC – CEILING MTD.	0	0	0	0.134	0
115cd ALARM STROBE LIGHT 24 VDC – CEILING MTD.	0	0	0	0.158	0
75cd ALARM STROBE LIGHT 24 VDC – CEILING MTD.	12	0	0	0.111	1.332
30cd ALARM STROBE LIGHT 24 VDC – CEILING MTD.	4	0	0	0.063	0.252
15cd ALARM STROBE LIGHT 24 VDC – CEILING MTD.	10	0	0	0.041	0.41
15cd ALARM STROBE LIGHT 24 VDC – WALL MTD.	0	0	0	0.066	0
30cd ALARM STROBE LIGHT 24 VDC – WALL MTD.	0	0	0	0.094	0
75cd ALARM STROBE LIGHT 24 VDC – WALL MTD.	0	0	0	0.158	0

STANDBY AH 3.98
ALARM AH 0.54
TOTAL 4.52

SUB TOTAL 0.17 SUB TOTAL 2.16
HOURS 24.00 HOURS 0.25
AH STANDBY 3.98 AH ALARM 0.54

7 AH BATTERY PACK PROVIDED (0.25 HRS. = 15 MIN.)

BATTERY CALCULATIONS – POWER EXTENDER FCPS-B

EQUIPMENT MODEL	QUANTITY	SUPERVISORY CURRENT, A UNIT	SUPERVISORY CURRENT, A TOTAL	ALARM CURRENT, A UNIT	ALARM CURRENT, A TOTAL
POWER SUPPLY FCPS-24S6	1	0.166	0.166	0.166	0.166
95cd ALARM STROBE LIGHT 24 VDC – CEILING MTD.	0	0	0	0.134	0
115cd ALARM STROBE LIGHT 24 VDC – CEILING MTD.	0	0	0	0.158	0
75cd ALARM STROBE LIGHT 24 VDC – CEILING MTD.	9	0	0	0.111	0.999
30cd ALARM STROBE LIGHT 24 VDC – CEILING MTD.	1	0	0	0.063	0.063
15cd ALARM STROBE LIGHT 24 VDC – CEILING MTD.	8	0	0	0.041	0.328
15cd ALARM STROBE LIGHT 24 VDC – WALL MTD.	0	0	0	0.066	0
30cd ALARM STROBE LIGHT 24 VDC – WALL MTD.	0	0	0	0.094	0
75cd ALARM STROBE LIGHT 24 VDC – WALL MTD.	0	0	0	0.158	0
110cd ALARM STROBE LIGHT 24 VDC – WALL MTD.	0	0	0	0.202	0

STANDBY AH 3.98
ALARM AH 0.39
TOTAL 4.37

SUB TOTAL 0.17 SUB TOTAL 1.56
HOURS 24.00 HOURS 0.25
AH STANDBY 3.98 AH ALARM 0.39

7 AH BATTERY PACK PROVIDED (0.25 HRS. = 15 MIN.)

BATTERY CALCULATIONS – POWER EXTENDER FCPS-C

EQUIPMENT MODEL	QUANTITY	SUPERVISORY CURRENT, A UNIT	SUPERVISORY CURRENT, A TOTAL	ALARM CURRENT, A UNIT	ALARM CURRENT, A TOTAL
POWER SUPPLY FCPS-24S6	1	0.166	0.166	0.166	0.166
95cd ALARM STROBE LIGHT 24 VDC – CEILING MTD.	0	0	0	0.134	0
115cd ALARM STROBE LIGHT 24 VDC – CEILING MTD.	0	0	0	0.158	0
75cd ALARM STROBE LIGHT 24 VDC – CEILING MTD.	10	0	0	0.111	1.11
30cd ALARM STROBE LIGHT 24 VDC – CEILING MTD.	0	0	0	0.063	0
15cd ALARM STROBE LIGHT 24 VDC – CEILING MTD.	0	0	0	0.041	0
15cd ALARM STROBE LIGHT 24 VDC – WALL MTD.	5	0	0	0.066	0.33
30cd ALARM STROBE LIGHT 24 VDC – WALL MTD.	2	0	0	0.094	0.188
75cd ALARM STROBE LIGHT 24 VDC – WALL MTD.	0	0	0	0.158	0
110cd ALARM STROBE LIGHT 24 VDC – WALL MTD.	1	0	0	0.202	0.202

STANDBY AH 3.98
ALARM AH 0.50
TOTAL 4.48

SUB TOTAL 0.17 SUB TOTAL 2.00
HOURS 24.00 HOURS 0.25
AH STANDBY 3.98 AH ALARM 0.50

7 AH BATTERY PACK PROVIDED (0.25 HRS. = 15 MIN.)

SYMBOLS	COMPONENT	CAT. NO.	CSFM NO.
	FIRE ALARM CONTROL PANEL "FACP"	NFS2-3030 WITH DVC AUDIO	7165-0028:0224
	FIRE ALARM ANNUNCIATOR WITH MICROPHONE	DVC-RPU	7165-0028:0224
	FIELD CHARGE POWER SUPPLY	FCPS-24S6	7315-0028:0225
UDACT	UNIVERSAL DIGITAL ALARM COMMUNICATOR TRANSMITTER	UDACT	7165-1703:0125
FH	INTERIOR MANUAL PULL STATION	NBG-12LX	7150-0028:0199
WP SP	EXTERIOR SPEAKER	SYSTEM SENSOR SPRK	7320-1653:0201
(cd) SRL	STROBE – WALL/COLUMN MOUNTED	SYSTEM SENSOR SRL	7125-1653:0504
(cd) SPSRL	SPEAKER – STROBE WALL/COLUMN MTD.	SYSTEM SENSOR SPSRL	7320-1653:0505
(cd) SPSCRL	CEILING SPEAKER/STROBE	SYSTEM SENSOR SPSCRL	7320-1653:0505
(cd) SCRL	CEILING STROBE	SYSTEM SENSOR SCRL	7125-1653:0504
S	SMOKE DETECTOR	FAPT-851	7272-0028:0206
	SMOKE DETECTOR BASE	B710LP	7300-0028:0173
MM	MONITOR MODULE	FMM-1	7300-0028:0219
CM	CONTROL RELAY MODULE	FCM-1/FRM	7300-0028:0219
CR	CONTROL RELAY	PAM-1	7300-1004:0101
H	HEAT DETECTOR	FST-851R	7270-0028:0196
	HEAT DETECTOR BASE	B710LP	7300-0028:0173
SC	SMOKE DETECTOR/ CARBON MONOXIDE COMBO WITH BX-501 BASE	FCO-851	7275-0028:0264
F	1 PAIR UNSHIELDED	WEST PENN NO. D990	7161-0859:0101
N	1 PAIR TWISTED UNSHIELDED	WEST PENN 994	7160-0859:0102

BATTERY CALCULATIONS PANEL FACP "NOTIFIER" – NFS2-3030 WITH DVC AUDIO

QTY.	DESCRIPTION	STANDBY DEVICE	STANDBY AMPS	ALARM DEVICE	ALARM AMPS
1	NFS2-3030-CPU2-3030D	0.34000	0.34000	0.34000	0.34000
1	LCM-320	0.13000	0.13000	0.13000	0.13000
2	LEM-320	0.10000	0.20000	0.10000	0.20000
1	ACPS-610 POWER SUPPLY	0.02000	0.02000	0.02000	0.02000
1	NCA2-NETWORK ANNUNCIATOR	0.40000	0.40000	0.40000	0.40000
1	DIGITAL COMMUNICATOR – UDACT	0.04000	0.04000	0.04000	0.04000
1	DVC-EM	0.20000	0.20000	0.20000	0.20000
1	DAA2-50W/DS-XF70V	0.05100	0.05100	0.90000	0.90000
0	FCM/FRM ADDRESSABLE MONITOR/CONTROL MODULE	0.00200	0.00000	0.00650	0.00000
132	SMOKE DETECTOR, PHOTOELECTRIC	0.00030	0.03960	0.00650	0.85800
68	HEAT DETECTOR	0.00030	0.02040	0.00650	0.44200
5	MANUAL PULLSTATION	0.00040	0.00200	0.00060	0.00300
19	SPEAKER – 1/2 WATT TAP	0.00000	0.00000	0.03200	0.60800
4	SPEAKER – 1 WATT TAP	0.00000	0.00000	0.06400	0.25600
4	SPEAKER – 2 WATT TAP	0.00000	0.00000	0.13200	0.52800
TOTAL			1.4430		4.9250
		STANDBY		ALARM	
		24 HOURS	34.6320	15 MIN.	1.2313
		TOTAL	35.86 A.H.		
	BATTERY WITH 25% DERATING INCLUDED:		44.83 A.H.		
	BATTERY:		50 A.H.		
	SPARE:		5.17 A.H.		

FIRE ALARM SIGNAL CIRCUIT SCHEDULE – NFS2-3030 DVC AUDIO OPTION

CKT. NO.	WALL QUAN. STROBE 15cd 0.066	WALL QUAN. STROBE 30cd 0.094	WALL QUAN. STROBE 75cd 0.158	WALL QUAN. STROBE 110cd 0.202	CEIL. QUAN. STROBE 15cd 0.041	CEIL. QUAN. STROBE 30cd 0.063	CEIL. QUAN. STROBE 75cd 0.111	CEIL. QUAN. STROBE 95cd 0.134	CEIL. QUAN. STROBE 115cd 0.158	TOTAL AMPS	WIRE SIZE	DISTANCE (IN FEET)	TO FACP	TO POWER EXTENDER	PERCENT VOLTAGE DROP
V1					7	3	5			1.03	#12	340		FCPS-A	4.83
V2					3	1	7			0.96	#12	390		FCPS-A	5.18
V3										0.00	#12	SPARE		FCPS-A	0.00
V4										0.00	#12	SPARE		FCPS-A	0.00
V5					4	1	4			0.67	#12	230		FCPS-B	2.13
V6					4		5			0.72	#12	390		FCPS-B	3.86
V7										0.00	#12	SPARE		FCPS-B	0.00
V8										0.00	#12	SPARE		FCPS-B	0.00
V9	5	2		1						0.72	#12	140		FCPS-C	1.39
V10							6			0.67	#12	330		FCPS-C	3.03
V11							4			0.44	#12	250		FCPS-C	1.53
V12										0.00	#12	SPARE		FCPS-C	0.00

I = TOTAL CURRENT FLOW IN ALARM CONDITION
L = LENGTH OF CIRCUIT FROM SUPPLY TO LAST DEVICE (IN FEET)
21.6 = RESISTIVITY OF COPPER CONDUCTOR PER CIRCULAR MIL (10.8 X 2 FOR TWICE THE LENGTH)
C.M. = CROSS SECTIONAL AREA OF CONDUCTOR IN CIRCULAR MILLS

$$\% \text{ VOLTAGE DROP} = \frac{(I) \times (L) \times 21.6}{(CM)} \times \frac{100}{24}$$

FIRE ALARM SEQUENCE OF OPERATION

DEVICE/ACTION	MANUAL PULL STATION	AREA SMOKE DETECTOR	AREA HEAT DETECTOR	POWER FAILURE
ANNUNCIATE ALARM AT FACP AND REMOTE ANNUNCIATOR	X	X	X	
ANNUNCIATE SUPERVISORY CONDITION AT FACP AND REMOTE ANNUNCIATOR				
ANNUNCIATE TROUBLE AT FACP AND REMOTE ANNUNCIATOR*	X	X	X	X
ACTIVATE AUDIBLE/VISUAL SIGNAL THROUGHOUT SCHOOL(ALARM)	X	X	X	
CONTACT CENTRAL STATION (UDACT)	X	X	X	X
DISABLE PASSING SIGNALS	X	X	X	
SHUT DOWN AIR HANDLING EQUIPMENT (FOR AREA IN ALARM)		X	X	
CLOSE SMOKE/FIRE DAMPERS (FOR AREA IN ALARM)		X	X	

SPEAKER CIRCUIT LOAD CALCULATION

MFG. REC. MAXIMUM LOSS IS 0.5dB

SPEAKER CIRCUIT DESCRIPTION AMPLIFIER#	AMPLIFIER LOCATION	CIRCUIT LOCATION	PANEL CIRCUIT NUMBER	WIRE GAUGE (18, 16, 14 12)	CIRCUIT VOLTAGE (25 OR 70 VRMS)	APPLIANCES QUANTITIES / TAP VALUES SPEAKER TAPPED AT 0.25 Watts	SPEAKER TAPPED AT 0.5 Watts	SPEAKER TAPPED AT 1 Watt	SPEAKER TAPPED AT 2 Watts	TOTAL CIRCUIT LOAD (WATTS)	ESTIMATED CIRCUIT LENGTH (FEET)	ACTUAL WIRE/LOSS (dB)	MAXIMUM ALLOWABLE CKT. LENGTH (FEET)	TOTAL CIRCUIT RESISTANCE (OHMS)
FACP (50W)	SUPPLY ROOM A8	ADMIN BUILDING A	A1	14 AWG	70 Vrms	0	10	2	2	11.00 Watts	370 ft.	–0.04 dB	35,502 ft.	1.9 Ohms
FACP (50W)	SUPPLY ROOM A8	ADMIN BUILDING A	A2	14 AWG	70 Vrms	0	9	2	2	10.50 Watts	430 ft.	–0.04 dB	37,192 ft.	2.2 Ohms
AMP–B (50W)	STORAGE ROOM B8	BUILDING B	A3	14 AWG	70 Vrms	0	8	0	3	10.00 Watts	310 ft.	–0.03 dB	39,052 ft.	1.6 Ohms
AMP–B (50W)	STORAGE ROOM B8	BUILDING B	A4	14 AWG	70 Vrms	0	9	0	1	6.50 Watts	420 ft.	–0.03 dB	60,080 ft.	2.2 Ohms
AMP–C (50W)	HEATER RM C3	BUILDING C	A5	14 AWG	70 Vrms	0	5	1	1	5.50 Watts	260 ft.	–0.01 dB	71,003 ft.	1.4 Ohms
AMP–C (50W)	HEATER RM C3	RELO BUILDINGS	A6	14 AWG	70 Vrms	0	6	0	4	11.00 Watts	400 ft.	–0.04 dB	35,502 ft.	2.1 Ohms
AMP–C (50W)	HEATER RM C3	RELO BUILDINGS	A7	14 AWG	70 Vrms	0	4	0	4	10.00 Watts	320 ft.	–0.03 dB	39,052 ft.	1.7 Ohms
AMP–C (50W)	HEATER RM C3	SPARE	A8	14 AWG	70 Vrms	0	0	0	0	0.00 Watts	0 ft.	0.00 dB	0 ft.	0.0 Ohms

Appliance Summary				Total Load (Watts)
0	51	5	17	64.50

FIRE ALARM SYSTEM DESCRIPTION
FIRE ALARM SUBMITTAL CONSISTS OF COMPLETE FULLY AUTOMATIC FIRE ALARM SYSTEM AT THE ENTIRE SCHOOL. PER DSA POLICY CFC 907.2.3.

PACIFIC ENGINEERS GROUP
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IDENTIFICATION STAMP
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APP. 03-119485 INC:
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DATE: 8/14/2019

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LICENSED ARCHITECT
JAVAN NABILI
NO. C24035
REN: 7.31.21
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INGLEWOOD UNIFIED SCHOOL DISTRICT

CORDOBA CORPORATION
SAN FRANCISCO • LOS ANGELES • SANTA ANA • SAN DIEGO

REGISTERED PROFESSIONAL ENGINEER
JIMMY L. FONG
No. E14126
Exp. 06.30.2020
ELECTRICAL
STATE OF CALIFORNIA

SOUND MITIGATION PROGRAM

OAK STREET ELEMENTARY SCHOOL
633 South Oak Street Inglewood, CA 90301

A PROJECT FOR: INGLEWOOD UNIFIED SCHOOL DISTRICT

PROJECT NUMBER: 10292

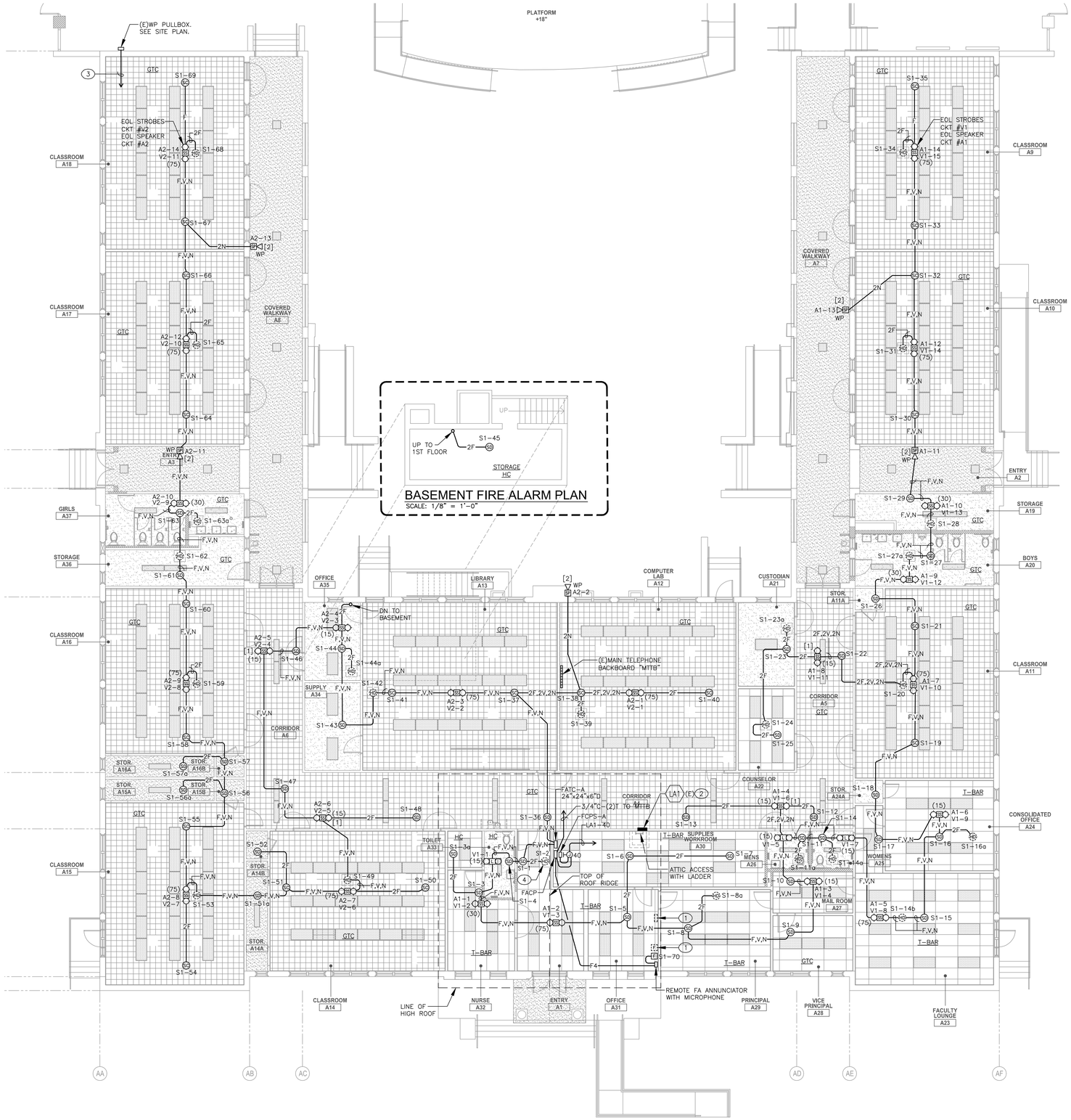
DRAWN: HY
CHECKED: PM

ISSUE/REVISION:

8/21/2018	30% - SCHEMATIC DESIGN
10/10/2018	50% CD SUBMITTAL
11/15/2018	100% CD - DSA SUBMITTAL
03/15/2019	DSA APPROVAL

FA SCHEDULES AND CALCULATIONS

E-604



BASEMENT FIRE ALARM PLAN

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

FIRE ALARM SYSTEM DESCRIPTION
FIRE ALARM SUBMITTAL CONSISTS OF COMPLETE FULLY AUTOMATIC FIRE ALARM SYSTEM AT THE ENTIRE SCHOOL. PER DSA POLICY CFC 907.2.3.

1 BUILDING A - FIRE ALARM PLAN

FILE NAME: _E605
SCALE: 1/8"=1'-0"

KEYED NOTES

1. DEMOLISH FIRE ALARM CONTROL PANEL, PULL STATION, AND ASSOCIATED CONDUITS AND WIRES AFTER NEW FIRE ALARM SYSTEM IS OPERATIONAL AND ACCEPTED BY THE DISTRICT.
2. PROVIDE (1)20A-1P CIRCUIT BREAKER AT (E) PANEL. PROVIDE "LOCK-ON" DEVICE AND RED LABEL TO READ "FIRE ALARM".
3. 2"C-(2)FW, (1)V, (1)NW TO FATC-A.
4. MOUNT HEAT DETECTOR WITHIN 3 FT OF CEILING PEAK.

CEILING TYPE LEGEND

T-BAR – T-BAR CEILING.
GTC – 12"x12" GLUED TILE CEILING.
HC – HARD CEILING AND OR OPEN CEILING.

GENERAL NOTES

1. THE ENTIRE ATTIC OF THE BUILDING IS OPEN.
   WALL PARTITION FRAMING BETWEEN ROOMS AND CORRIDOR WALLS IS UP TO ROOF DECK. WALL FINISH IS UP TO CEILING ONLY.

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03/15/2019	DSA APPROVAL

BUILDINGS A - FIRE ALARM PLAN

E-605

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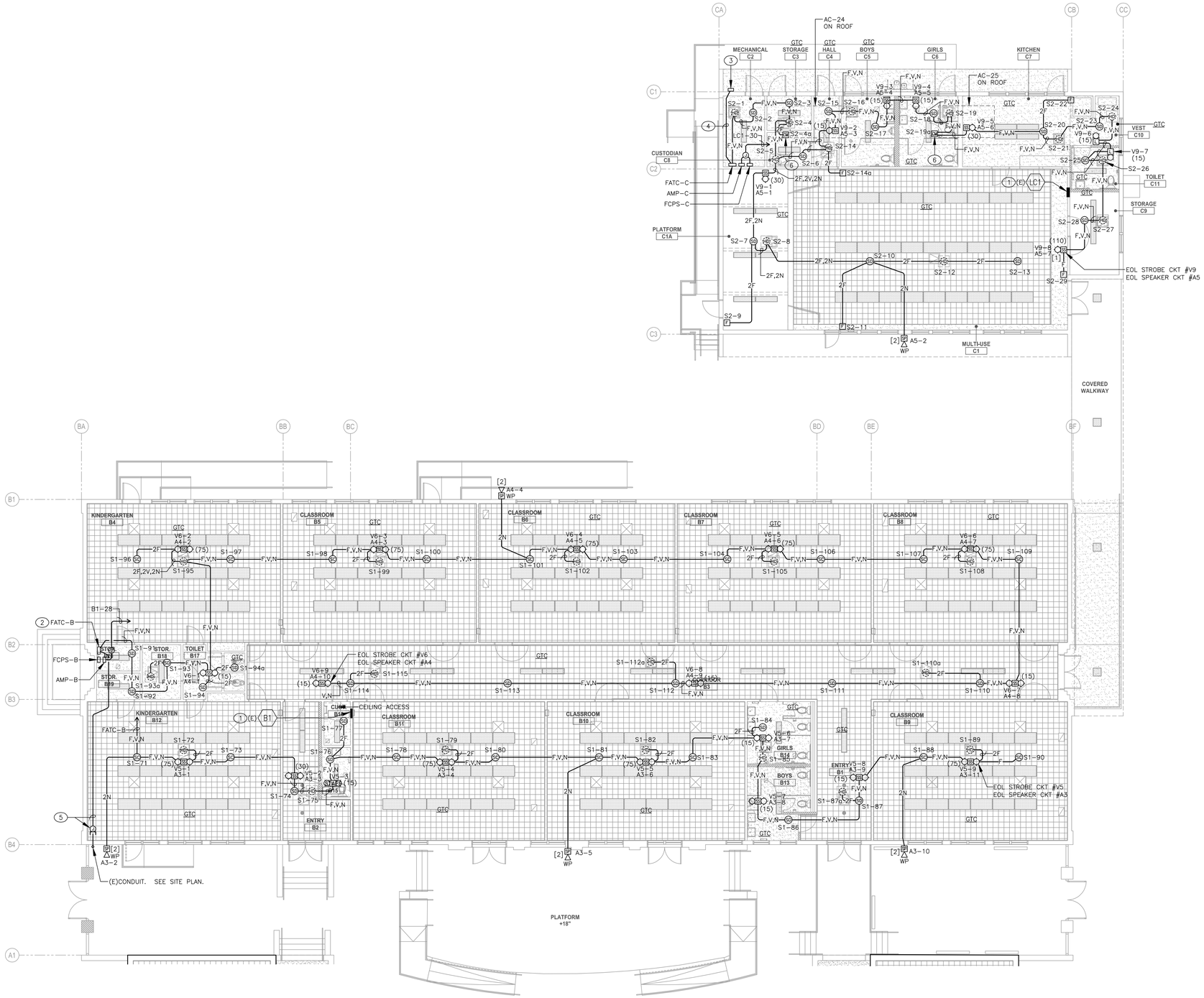

KEYED NOTES

1. PROVIDE (1)20-1P CIRCUIT BREAKER WITH "LOCK-ON" DEVICE AT (E)PANEL, PROVIDE RED LABEL TO READ "FIRE ALARM".
2. 24"x24"x6"D FA CABINET. SEE SIMILAR DETAIL 3/E-102.
3. WP FIRE ALARM PULLBOX. SEE SITE PLAN E-201.
4. 2"C-(1)FW, (3)V, (3)NW.
5. PROVIDE INTERCEPT J-BOX AND LOCATE AND INTERCEPT (E) 1" CONDUIT AND EXTEND 1"C-(2)FW, (1)V, (1)NW TO FATC-B.
6. PROVIDE CONTROL MODULE IN A/C UNIT CONTROL COMPARTMENT AND CONNECT TO AC CONTROLLER FOR AUTOMATIC A/C SHUT-OFF. SEE DETAIL 8/E-602.

GENERAL NOTES

1. ONLY CORRIDOR WALLS FRAMING AND FINISH IN BUILDING "B" IS UP TO ROOF DECK.
ALL OTHER PARTITION FINISHES ARE UP TO CEILING ONLY.

CEILING TYPE LEGEND

T-BAR – T-BAR CEILING.
GTC – 12"x12" GLUED TILE CEILING.
HC – HARD CEILING AND OR OPEN CEILING.

FIRE ALARM SYSTEM DESCRIPTION

FIRE ALARM SUBMITTAL CONSISTS OF COMPLETE FULLY AUTOMATIC FIRE ALARM SYSTEM AT THE ENTIRE SCHOOL. PER DSA POLICY CFC 907.2.3.

1 BUILDINGS B & C FIRE ALARM PLAN

FILE NAME: _E606
SCALE: 1/8"=1'-0"

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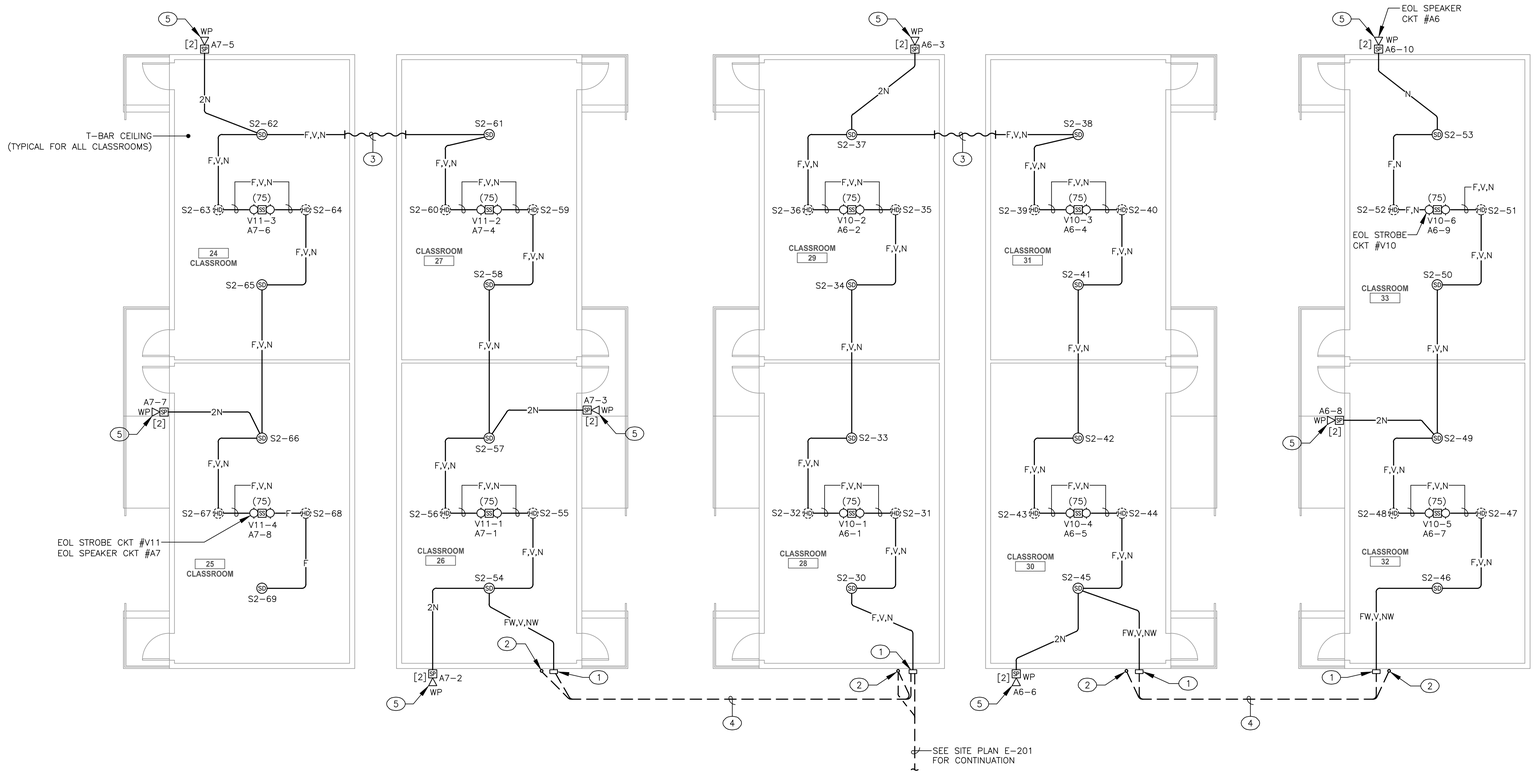
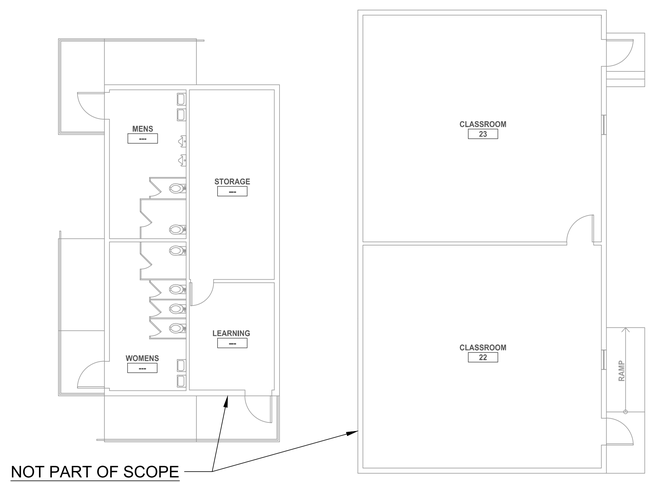
05/23/2019	DSA APPROVAL

BUILDINGS B & C FIRE ALARM PLAN

E-606





KEYED NOTES

1. 12"x12"x6"D WP PULLBOX. MARK COVER "FIRE ALARM". SEE DETAIL 3/E-102.
2. STUB-UP SPARE CONDUITS TO +15" AFG AND PROVIDE END CAP.
3. PROVIDE LIQUID TIGHT FLEX BETWEEN BUILDING. SEE DETAIL 4/E-102.
4. 2"C-(1)FW, V, NW; (2)2"C.O. SPARE.
5. SEE DETAIL 10/E-602.

GENERAL NOTES

1. ALL RELOCATABLE CLASSROOMS INCLUDING RESTROOMS HAVE T-BAR CEILING.

FIRE ALARM SYSTEM DESCRIPTION
FIRE ALARM SUBMITTAL CONSISTS OF COMPLETE FULLY AUTOMATIC FIRE ALARM SYSTEM AT THE ENTIRE SCHOOL. PER DSA POLICY CFC 907.2.3.

1 RELOCATABLE BUILDINGS FIRE ALARM PLAN

FILE NAME: _E607
SCALE: 1/8"=1'-0"

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RELOCATABLE BLDGS
FIRE ALARM PLAN

E-607