

Fire Alarm

Robert H. Down Elementary School

485 Pine Avenue, Pacific Grove CA. 93950

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-121901 INC:
REVIEWED FOR
SS FLS ACS
DATE: 4/16/2025



Architecture, Planning, Urban Design
550 Harnell Street, Suite J
Monterey, California 93940
Tel 831.375.9594

Robert H. Down Elementary School Fire Alarm

485 Pine Avenue
Pacific Grove, CA. 93950

GENERAL NOTES

- CODE REQUIREMENTS: SEE APPLICABLE CODES THIS SHEET.
- IN THE EVENT THAT CERTAIN DETAILS OF THE CONSTRUCTION ARE NOT FULLY SHOWN OR NOTED ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME SIZE AND CHARACTER AS FOR SIMILAR CONDITIONS WHICH ARE SHOWN AND NOTED.
- CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS IN THE FIELD BEFORE COMMENCING WORK. CONTRACTOR TO FURNISH AND INSTALL ALL MATERIALS NECESSARY TO COMPLETE THE WORK INDICATED ON THE DRAWINGS AND SPECIFICATIONS.
- GENERAL DIMENSIONING GUIDELINE:
 - DIMENSIONS AT INTERIOR WALLS ARE GIVEN TO FACE OF STUDS (FOS), UNLESS OTHERWISE NOTED.
 - WINDOW UNITS ARE DIMENSIONED IN WINDOW TYPES, AND CODED ON PLANS.
 - DOOR SIZES ARE DIMENSIONED IN THE DOOR SCHEDULE AND CODED ON PLANS.
- MATERIALS AND THEIR INSTALLATION SHALL COMPLY WITH APPLICABLE CODES, STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
- WORK SHALL COMPLY WITH THE PROVISIONS OF CHAPTER 33 OF THE CBC & CFC, "FIRE SAFETY" DURING CONSTRUCTION AND DEMOLITION.
- FIRE SAFETY DURING CONSTRUCTION & DEMOLITION WILL BE ENFORCED IN ACCORDANCE WITH CBC & CFC CHAPTER 33

ABBREVIATIONS

&	AND	FRP	FIBERGLASS REIN. PLASTIC	PT	PAINT
Z	ANGLE	FIN	FINISH	PTN	PARTITION
@	AT	FF	FINISH FLOOR	PLAS	PLASTER
Q	CENTERLINE	FA	FIRE ALARM	P.LAM	PLASTIC LAMINATE
#	FOUND OR NUMBER	FEB	FIRE EXTINGUISHER-BRACKET	PL	PLATE
#	PROPERTY LINE	FEC	FIRE EXTINGUISHER-CABINET	PWD	PLYWOOD
AB	ANCHOR BOLT	KFE	KITCHEN FIRE EXTINGUISHER	PS	PLYWOOD SHEATHING
ABV	ABOVE	KFE	KITCHEN FIRE EXTINGUISHER	PT	POINT OR PAINT
AC	ASPHALTIC CONCRETE	RXT	FIXTURE	PVMT	PAVEMENT
ACC	ACCESSIBLE	FLR	FLOOR	QT	QUARRY TILE
ACCUST.	ACOUSTICAL	FR	FLOOR DRAIN	R	RADIUS OR RISER
ADJ	ADJUSTABLE OR ADJACENT	FLUOR	FLUORESCENT	RD	ROOF DRAIN
AFF	ABOVE FINISH FLOOR	FTG	FOOTING	RENF	REINFORCED
AGG	AGGREGATE	FT	FOOT OR FEET	REQ	REQUIRED
ALT	ALTERNATE	FDN	FOUNDATION	RES	RESILIENT
AL	ALUMINUM	FR	FRAME	REV	REVISION OR REVISED
APPROX	APPROXIMATE	GALV	GALVANIZED	RF	REINFORCED
ARCH	ARCHITECTURAL	GSM	GALVANIZED SHEET METAL	RWD	ROUGH OPENING
AT	ACOUSTIC TILE	GA	GAUGE	RWL	RAIN WATER LEADER
BD	BOARD	GL	GLASS	RO	ROUGH OPENING
BM	BEAM	GLB	GLULAM BEAM	SAD	SEE ARCHITECTURAL DRAWINGS
BLK	BLOCK	GYP	GYPSONUM	SAP	SUSPENDED ACOUSTIC PANEL
BLKG	BLOCKING	GWB	GYPSONUM WALL BOARD	SC	SOLID CORE, SEALED CONCRETE
BLDG	BUILDING	HDWR	HARDWARE	SCD	SEE CIVIL DRAWINGS
BOT	BOTTOM	HDWD	HARDWOOD	SCHED	SCHEDULE
BUR	BUILT-UP ROOFING	HDR	HEADER	SECT	SECTION
CAB	CABINET	HGT	HIGHT	SED	SEE ELECTRICAL DRAWINGS
CAB	CABINET	HM	HOLLOW METAL	SLD	SEE LANDSCAPE DRAWINGS
CA	CARPET	HORIZ	HORIZONTAL	SMD	SEE MECHANICAL DRAWINGS
CI	CAST IRON	SH	SHOE	SH	SHOE
CLG	CEILING	HR	HOUR	SHT	SHEET
CLR	CLEAR	HW	HOT WATER	SHM	SIMILAR
CIR	CENTER	INCL	INCLUDE	SPEC	SPECIFICATION
CT	CERAMIC TILE	ID	INSIDE DIAMETER	SQ	SQUARE
CW	COLD WATER	INSUL	INSULATION	SSD	SEE STRUCTURAL DRAWINGS
COL	COLUMN	INT	INTERIOR	STD	STANDARD
CONC	CONCRETE	JT	JOINT	STL	STEEL
CONST	CONSTRUCTION	JST	JOIST	STRUC	STRUCTURAL
CJ	CONTROL JOINT	LAM	LAMINATE	SUSP	SUSPENDED
CMU	CONCRETE MASONRY UNIT	LAV	LAVATORY	SYM	SYMMETRICAL
DET	DETAIL	LT	LIGHT	STS	SYSTEM
DF	DRINKING FOUNTAIN	LVT	LUXURY VINYL TILE	T	TREAD
	OR DOUGLAS FIR	MB	MACHINE BOLT	TEMP	TEMPERED
DIAG	DIAGONAL	MFR	MANUFACTURER	THK	THICKNESS
DIA	DIAMETER	MO	MASONRY OPENING	THRES	THRESHOLD
DM	DIMENSION	MAX	MAXIMUM	TCA	TILE COUNCIL OF AMERICA
DM	DIMENSIONAL	MECH	MECHANICAL	T&G	TONGUE & GROOVE
DP	DIMENSION POINT	MEMB	MEMBRANE	TOC	TOP OF CONCRETE
DR	DOOR	MET	METAL	TP	TOP OF PAVEMENT
DS	DOWNSPOUT	MIN	MINIMUM	TPS	TOP OF PLYWOOD SHEATHING
DWG	DRAWING	MISC	MISCELLANEOUS	TOS	TOP OF STEEL
EAC	EACH	MTD	AMOUNTED	TW	TOP OF WALL
ELEC	ELECTRICAL	MUL	MULLION	TS	TURB STEEL
EL	ELEVATION	N	NEW	TYP	TYPICAL
ELEV	ELEVATOR	N/A	NOT APPLICABLE	TEN	TYPICAL EDGE NAIL
ENCL	ENCLOSURE	NIC	NOT IN CONTRACT	UON	UNLESS OTHERWISE NOTED
ENGR	ENGINEER	NOM	NOMINAL	VIF	VERTICAL IN FIELD
EQ	EQUAL	NO / #	NUMBER	VERT	VERTICAL
EQPT	EQUIPMENT	NR	NON RATED	VCDF	VERTICAL GRAIN DOUGLAS FIR
EXIST (E)	EXISTING	NIS	NOT TO SCALE	VCT	VINYL COMPOSITION TILE
EJ	EXPANSION JOINT	OA	OVERALL	VWC	VINYL WALL COVERING
EXP	EXPOSED	OC	ON CENTER	WP	WATERPROOF
EXT	EXTERIOR	OD	OUTSIDE DIAMETER	WMM	WELDED WIRE MESH
FOC	FACE OF CONCRETE	OH	OVERHEAD	WDW	WINDOW
FOF	FACE OF FINISH	OPP	OPPOSITE	WJ	WITH
FOS	FACE OF STUD	PNL	PANEL	W/O	WITHOUT
FPS	FACE OF PLYWOOD SHEATHING	PR	PAIR	WD	WOOD

APPLICABLE CODES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH:
 - 2022 CALIFORNIA BUILDING CODE - D.S.A.
 - 2022 CALIFORNIA BUILDING CODE - S.F.A.
 - 2022 CALIFORNIA CODE REGULATIONS:
 - TITLE 8, INDUSTRIAL CODES
 - TITLE 19, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
 - TITLE 21, PUBLIC WORKS
 - 2022 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
 - 2022 CALIFORNIA ELECTRICAL CODE, PART 2, TITLE 24 C.C.R.
 - 2022 CALIFORNIA MECHANICAL CODE, PART 4, TITLE 24 C.C.R.
 - 2022 CALIFORNIA PLUMBING CODE, PART 5, TITLE 24 C.C.R.
 - 2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
 - 2022 CALIFORNIA ELEVATOR CODE, PART 7, TITLE 24 C.C.R.
 - 2022 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
 - 2022 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
 - TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
 - 2022 CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24 C.C.R.
 - 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R.
 - FOR A COMPLETE LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS, REFER TO CBC CHAPTER 35 AND CFC CHAPTER 80
 - NATIONAL BOARD OF FIRE UNDERWRITERS
 - STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY
 - ELECTRICAL REGULATIONS OF THE STATE FIRE MARSHAL
 - 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
- ALL BARRIER FREE ITEMS SHALL COMPLY WITH TITLE 21 AND 24 OF THE CALIFORNIA CODE OF REGULATIONS, 2022.
- ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE REQUIREMENTS OF THESE CODES AND ALL APPLICABLE LOCAL ORDINANCES WHERE CODES CONFLICT. THE MORE STRINGENT SHALL APPLY.
- PROTECTION DURING WELDING: CONFORM TO TITLE 8, C.C.R. FURTHER PROTECT OCCUPANTS AND THE PUBLIC WITH PORTABLE SOLID VISION BARRICADES AROUND LOCATION WHERE WELDING IS BEING PERFORMED. PROVIDE SIGNS WARNING AGAINST LOOKING AT WELDING WITHOUT PROPER EYE PROTECTION OR EQUIVALENT. SEE C.F.C. FOR REQUIREMENTS FOR ON SITE WELDING.
- DURING THE ENTIRE CONSTRUCTION PERIOD, IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN CONDITIONS AT THE PROJECT SITE TO MEET THE REQUIREMENTS OF THE CALIFORNIA OCCUPATIONAL REGULATIONS. THIS PROVISION SHALL COVER THE CONTRACTOR'S EMPLOYEES AND ALL OTHER PERSONS WORKING UPON OR VISITING THE SITE. THE CONTRACTOR SHALL BECOME FULLY INFORMED OF ALL APPLICABLE STANDARDS AND REGULATIONS AND INFORM ALL PERSONS AND REPRESENTATIVES RESPONSIBLE FOR WORK UNDER THIS CONTRACT.

SYMBOLS

	BUILDING SECTION SECTION IDENTIFICATION SHEET WHERE SECTION IS DRAWN		ROOM ROOM IDENTIFICATION ROOM NAME ON TOP ROOM NUMBER IN BOX
	DETAIL CALL-OUT DETAIL IDENTIFICATION SHEET WHERE DETAIL IS DRAWN		DOOR NUMBER
			WINDOW NUMBER
			LOUVER NUMBER
	ELEVATION ELEVATION IDENTIFICATION SHEET WHERE ELEVATION IS DRAWN (POCHE FOR ELEVATION SHOWN)		CONTROL POINT OR DIMENSION POINT (DP) OR DATUM
			KEY NOTE
			ALIGN
			WALL TYPE
			DEMOLITION NOTE
			TOILET ACCESSORIES NOTE

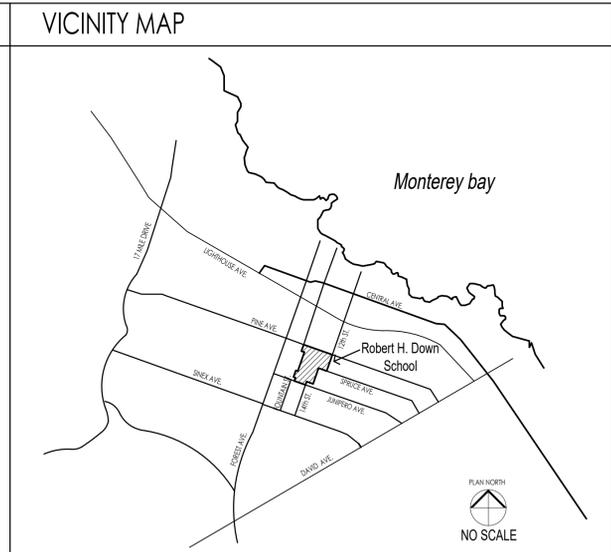
THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION.
AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE. LIGHTING CONTROL ACCEPTANCE TEST MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021. ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT. A LISTING OF CERTIFIED ATT CA BE FOUND AT:
<https://www.energy.ca.gov/programs-and-topics/programs/acceptance-test-technician-provider-program/acceptance>.
THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDERS OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEM CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA. PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TEST HAVE BEEN COMPLETED.

DSA ADMINISTRATIVE REQUIREMENTS

- A COPY OF PARTS 1 TO 5, TITLE 24 C.C.R. SHALL BE KEPT ON THE JOB SITE AT ALL TIMES.
- ALL CONSTRUCTION CHANGE DIRECTIVE AND ADDENDA TO BE SIGNED BY THE ARCHITECT AND OWNER AND APPROVED BY DSA. CONSTRUCTION CHANGE DIRECTIVE AND ADDENDA ARE NOT VALID UNTIL APPROVED BY DSA PER SECTION 4-336, PART 1, TITLE 24.
- ALL TESTS TO CONFORM TO THE REQUIREMENTS OF SECTION 4-335, PART 1, TITLE 24, AND APPROVED TESTS AND INSPECTION SHEET.
- TESTS OF MATERIALS SHALL AND TESTING LABORATORY SHALL BE IN ACCORDANCE WITH SECTION 4-335, PART 1, TITLE 24, AND THE OWNER SHALL EMPLOY AND PAY THE LABORATORY. COSTS OF RE-TEST SHALL BE PER GENERAL CONDITIONS.
- DSA SHALL BE NOTIFIED AT THE START OF CONSTRUCTION AND PRIOR TO THE PLACEMENT OF CONCRETE PER SECTION 4-331, PART 1, TITLE 24.
- PROJECT INSPECTOR EMPLOYED BY THE DISTRICT SHALL BE APPROVED BY DSA. INSPECTION SHALL BE CLASS 2 PROJECT INSPECTOR IN ACCORDANCE WITH SECTION 4-333(b). THE DUTY OF THE PROJECT INSPECTOR SHALL BE IN ACCORDANCE WITH SECTION 4-342, PART 1, TITLE 24.
- SUPERVISION OF CONSTRUCTION BY DSA SHALL BE IN ACCORDANCE WITH SECTION 4-334, PART 1, TITLE 24.
- CONTRACTOR, INSPECTOR, ARCHITECT, AND ENGINEERS SHALL SUBMIT VERIFIED REPORTS (FORM DSA-6) IN ACCORDANCE WITH SECTIONS 4-336 AND 4-343, PART 1, TITLE 24.
- THE ARCHITECT AND THE STRUCTURAL ENGINEER SHALL PERFORM THEIR DUTIES IN ACCORDANCE WITH SECTIONS 4-335(A) AND 4-341, PART 1, TITLE 24.
- THE CONTRACTOR SHALL PERFORM HIS DUTIES IN ACCORDANCE WITH SECTIONS 4-336 AND 4-343, PART 1, TITLE 24.
- THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. 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, CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DOCUMENT, OR 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.
- SHOULD ANY CONDITION(S) DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, OR, IF A CHANGE IN SCOPE OF WORK PROPOSED, A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED CHANGE(S) SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
- SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE SUBMITTED AS A CONSTRUCTION CHANGE DOCUMENT OR ADDENDA, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION.
- CONSTRUCTION CHANGE DOCUMENTS MUST BE SIGNED BY THE FOLLOWING; ARCHITECT OF RECORD, DELEGATED PROFESSIONAL ENGINEER, DSA.
- DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND SPECIFICATIONS FOR THE PROJECT.

PROJECT DIRECTORY

OWNER PACIFIC GROVE UNIFIED SCHOOL DISTRICT 435 Hillcrest Ave. Pacific Grove, CA 93950 PH: 831.646.5553 CONTACT: JOHN ANDERSON	ELECTRICAL ENGINEER AND FIRE ALARM Aurum Consulting Engineers Monterey Bay, Inc. 60 Garden Court, Suite 2100 Monterey, CA 93940 PH: 831.646.3330 CONTACT: Edridge O. Bell edridge@acemf.com
ARCHITECT HGB ARCHITECTS 550 Harnell Street, Suite J Monterey, CA 93940 PH: 831.375.9594 CONTACT: Matt Lightner mighlner@hgb.net	



PROJECT SCOPE

FIRE ALARM SYSTEM REPLACEMENT FOR EXISTING BUILDINGS AT ROBERT H. DOWN ELEMENTARY SCHOOL TO MEET CURRENT CODE REQUIREMENTS. THE INTENT OF THE PROJECT IS TO REPLACE EXISTING FIRE ALARM SYSTEM. UNLESS OTHERWISE NOTED, ALL INITIATION DEVICES, NOTIFICATION APPLIANCES, AND WIRING SHALL BE REPLACED WITH NEW

PROJECT DATA

OWNER:	Pacific Grove Unified School District
APN#:	011-114-010-000
ZONING:	N/A

BLDG. NAME:	DSA #:	OCC GRP:	CONST. TYPE	SPRINKLERED	# OF STORIES:	BLDG AREA:
MAIN	01-105747 7234 10482 47206	E	V-1HR	YES 01-10482	2	1ST STORY - 33,566 S.F.
A	01-110-323 01-105747 4224	E	V-N	NO	1	4186 S.F.
B	01-110-323 01-103114 01-105747	E	V-N	NO	1	2880 S.F.
C	01-110-323 01-103114 01-105747	E	V-N	NO	1	1440 S.F.
D1	01-116-589	E	V-N	NO	1	1600 S.F.
D2	01-116-589	E	V-N	NO	1	1600 S.F.
D3	01-116-589	E	V-N	NO	1	1600 S.F.

THE OCCUPANCY OF EXISTING STRUCTURES AS DESCRIBED IN THE PROJECT INFORMATION CONTINUE WITHOUT CHANGE PER THE APPROVED DSA APPLICATION NUMBER (CBC 102.6)
NO OCCUPANCY CHANGE, SIGNIFICANT ALTERATION, OR INCREASE IN SQUARE FOOTAGE IS PROPOSED FOR THIS PROJECT SCOPE OF WORK. BUILDINGS DO NOT REQUIRE THE ADDITION OF SPRINKLERS. EXISTING BUILDING CONSTRUCTION TYPE WILL BE MAINTAINED.

DEFERRED SUBMITTALS

NONE

SHEET INDEX

ARCHITECTURAL	A0.0	TITLE SHEET	
	2	A1.1	EXISTING SITE

FIRE ALARM

*FA0.1	FIRE ALARM SYMBOLS, ABBREVIATIONS, EQUIPMENT LIST, OPERATIONAL MATRIX & NOTES
*FA1.1	FIRE ALARM RISER DIAGRAM
*FA1.2	FIRE ALARM RISER DIAGRAM
*FA1.3	BATTERY & VOLTAGE DROP CALCULATIONS
*FA2.1	FIRE ALARM SITE PLAN
*FA3.1	FIRE ALARM DEMO SITE PLAN
*FA4.1	FIRE ALARM PLAN - MAIN BUILDING - FIRST FLOOR
*FA4.2	FIRE ALARM PLAN - MAIN BUILDING - FIRST FLOOR
*FA4.3	FIRE ALARM PLAN - MAIN BUILDING - LOWER LEVEL & SECOND LEVEL
*FA4.4	FIRE ALARM PLAN - BUILDING A
*FA4.5	FIRE ALARM PLAN - BUILDING C, D1, D2 & D3
*FA4.6	FIRE ALARM PLAN - BUILDING B
*FA4.7	FIRE ALARM PLAN - BUILDINGS D1, D2, D3
*FA5.1	FIRE ALARM DETAILS

14 TOTAL SHEETS

PROJECT WILL NOT INCLUDE AN APPLICATION FOR FUNDING THROUGH THE CALShape PROGRAM.

APPLICATION NUMBER 01-121901 FILE NUMBER 27-37

THESE DRAWINGS AND SPECIFICATIONS AND/OR CALCULATIONS FOR THE ITEMS MARKED BY * IN THE DRAWING INDEX HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS WHO ARE LICENSED AND AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. THESE DOCUMENTS HAVE BEEN EXAMINED BY ME AND HAVE BEEN FOUND TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME. THE ITEMS MARKED BY * IN DRAWING INDEX ARE ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT FOR WHICH I AM THE INDIVIDUAL DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE.

Matthew R. Lightner, AIA (Architect of Record)

August 27, 2024

SIGNATURE DATE
LICENSE No.: C-39194 EXP. DATE: 02.28.2025

THE STATEMENT OF GENERAL CONFORMANCE SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTION 4-336, 4-341 OF TITLE 24, PART 1, (TITLE 24, PART 1, SECTION 4-317)



Drawing Title:
TITLE SHEET

Scale: N/A Sheet:
A0.0

Revision:
Date: August 27, 2024 Job Number: 1720.01

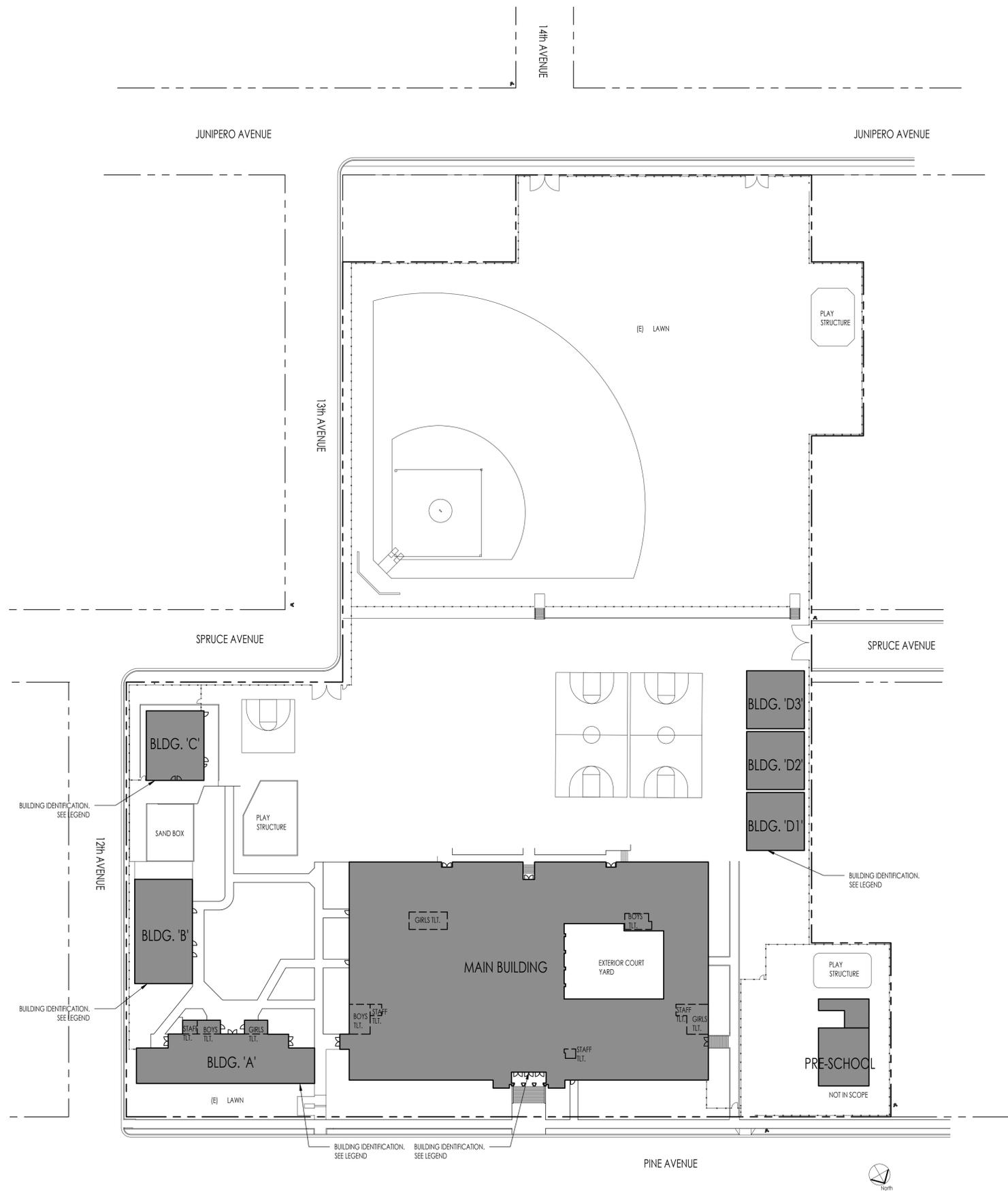
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Robert H. Down Elementary School Fire Alarm

485 Pine Avenue
 Pacific Grove, CA, 93950



LEGEND:

- PROJECT SITE
- PROPERTY LINE
- EXISTING CHAINLINK FENCING
- EXISTING FIRE HYDRANT LOCATION
(SHOWN LARGER THAN SCALE for CLARITY)
- [E] BUILDING IDENTIFICATION SIGNS
LOCATED ON EACH BUILDING WITH
LETTER OR NAME OF BUILDING
WITHIN 2'-0" DIA. CIRCLE

SEE PROJECT DATA FOR DSA #'S



Drawing Title:
 EXSITING SITE

Scale: 1"=40'-0"

Sheet:

A1.1

Revision:

1 - ENLARGED SITE PLAN
 SCALE - 1" = 40'-0"

Date: August 27, 2024 Job Number: 1720.01

FIRE ALARM EQUIPMENT LIST			
SYMBOL	DESCRIPTION AND MODEL NUMBER	MFR'S PART No.	CSFM LISTING
	ADDRESSABLE FIRE ALARM CONTROL PANEL WITH BUILT-IN CELLULAR COMMUNICATOR, FIRE-LITE ES1000X SERIES; PROVIDE & INSTALL FIRE ALARM DOCUMENT CABINET NEXT TO FACP	EX-1000X	7165-0075-0500
	FIRE ALARM REMOTE ANNUNCIATOR WITH 80 CHARACTER LIQUID CRYSTAL DISPLAY; WHITE FINISH FIRE-LITE ANN-80 SERIES.	ANN-80	7120-0075-0211
	EMERGENCY FIRE/VOICE EVACUATION COMMAND CENTER WITH 100WATT AMPLIFIER, FIRE-LITE ECC-50/100 SERIES; WITH ADDITIONAL ECC-50W AUDIO AMPLIFIER AND ECC-CE6 CIRCUIT EXPANDER.	ECC-50/100 ECC-50W ECC-CE6	6911-0075-0226
	FIRE ALARM DOCUMENTS CABINET TO STORE PRINTED AND DIGITAL DOCUMENTATION, ACERBOX SRD SERIES.	ACE-11	7300-0553-0110
	10.0A AUXILIARY POWER SUPPLY WITH 7 CONFIGURABLE OUTPUT CIRCUITS AND BUILT-IN SYNCHRONIZATION; FIRE-LITE PS-10 SERIES.	PS-10	7315-1637-0505
	50 WATT, 70 V RMS DIGITAL AUDIO AMPLIFIER WITH CHARGING POWER SUPPLY AND 2 CLASS B OR 2 CLASS A OUTPUTS; FIRE-LITE ECC-50 SERIES.	ECC-50 - DA	7300-0559-0173
	ADDRESSABLE PHOTO ELECTRIC FIRE ALARM SMOKE DETECTOR AND BASE, FIRE-LITE SD365 SERIES.	SD365	7272-0075-0502
	ADDRESSABLE FIRE ALARM HEAT DETECTOR AND BASE, 135 DEG. FIXED TEMPERATURE, FIRE-LITE H365 SERIES. (DEVICES WITH "A" INDICATE ABOVE CEILING).	H365	7270-0075-0501
	ADDRESSABLE PHOTOELECTRIC DUCT DETECTOR, PROVIDE ADDRESSABLE SMOKE DETECTOR AND RELAY MODULE WITHIN HOUSING, FIRE-LITE D355PL SERIES.	D355PL	3240-0075-0221
	CONVENTIONAL REFLECTOR-TYPE LINEAR OPTICAL BEAM SMOKE DETECTOR, FIRE-LITE OSI-R1-FL SERIES; PROVIDE WITH REMOTE TEST STATION WITH KEYLOCK.	OSI-R1-FL	7260-0075-0506
	ADDRESSABLE FIRE ALARM MANUAL PULLSTATION; DUAL-ACTION WITH KEY RESET, MOLDED POLYCARBONATE HOUSING, FIRE-LITE BG SERIES.	BG-12LX	7150-0028-0199
	ADDRESSABLE MONITOR MODULE FIRE-LITE FMM-1 SERIES.	FMM-1	7300-0028-0219
	ADDRESSABLE CONTROL MODULE FIRE-LITE FCM-1 SERIES.	FCM-1	7300-0028-0219
	WALL MOUNTED MULTI-CANDELA STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15, 30, 75 AND 110 CANDELA; SYSTEM SENSOR, SRL SERIES.	SRL	7125-1653-0504
	WALL MOUNTED MULTI-CANDELA SPEAKER-STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15, 30, 75 & 110 CANDELA WITH VOLTAGE SETTINGS OF 70.7 VRMS AND POWER SETTINGS OF 1/2, 1 & 2 WATTS; FIRE-LITE, SPSRL SERIES.	SPSRL	7320-1653-0505
	WALL MOUNTED WEATHERPROOF FIRE ALARM/VOICE EVACUATION SPEAKER WITH VOLTAGE SETTING OF 70.7 VRMS AND POWER SETTINGS OF 1/2, 1 & 2 WATTS; FIRE-LITE SPRL SERIES.	SPRL	7320-1653-0201
	END OF LINE DEVICE.		

FIRE ALARM GENERAL NOTES	
1.	WIRING MUST BE LISTED FOR USE AS REQUIRED BY TITLE 24/CEC, ARTICLE 760.
2.	WIRE USED IN WET LOCATIONS SHALL BE OF AN APPROVED TYPE IN ACCORDANCE WITH 3-310-8, T24/CEC (I.E. THHW OR EQUAL).
3.	UNDER GROUND AND EXTERIOR CONDUITS TO HAVE WATERTIGHT FITTINGS AND WIRES APPROVED FOR WET LOCATION.
4.	ALL CONDUCTORS SHALL BE ROUTED IN CONDUIT UNLESS SPECIFICALLY NOTED OTHERWISE ON PLANS. MINIMUM CONDUIT SIZE SHALL BE 3/4."
5.	THE CONDUIT AND WIRE SHOWN ON THESE PLANS ARE SHOWN DIAGRAMMATICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD TO SUIT FIELD CONDITIONS. "AS-BUILT" PLANS SHALL BE MAINTAINED AND BE PROVIDED AS REQUIRED BY THE PROJECT INSPECTOR OF RECORD.
6.	PENETRATIONS OF FIRE RATED WALLS SHALL BE PROTECTED IN ACCORDANCE WITH CALIFORNIA BUILDING CODE, CHAPTER 7, TITLE 24. PROVIDE DETAILS OF THROUGH PENETRATION FIRE-STOP SYSTEMS FOR ALL PIPE/CABLE/CONDUIT PASSING THROUGH FIRE RATED WALLS/FLOORS REQUIRING PROTECTED OPENINGS.
7.	ALL DEVICES SHALL BE "CSFM" LISTED.
8.	EXTERIOR DEVICES SHALL BE LISTED FOR EXTERIOR USE BY "CSFM."
9.	AUDIBLE FIRE ALARM SOUND LEVEL SHALL BE AT LEAST 15DBA ABOVE THE AVERAGE SOUND LEVEL.
10.	AUDIBLE SIGNALS INTENDED FOR OPERATION IN THE PUBLIC SHALL HAVE A SOUND LEVEL OF NOT LESS THAN 75DBA AT 10 FEET OR MORE THAN 110DBA AT THE MINIMUM HEARING DISTANCES FROM THE AUDIBLE APPLIANCE.
11.	WHERE VISUAL DEVICES ARE REQUIRED, VISUAL DEVICE SHOULD NOT EXCEED 2 FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN 1 FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. NO PLACE IN ANY ROOM SHALL BE MORE THAN 50 FEET FROM A DEVICE.
12.	APPROVED BY THE "DIVISION OF THE STATE ARCHITECT/OFFICE OF REGULATION SERVICES." CONTRACTOR SHALL PROVIDE COPIES OF APPROVED PLANS TO THE PROJECT INSPECTOR OF RECORD PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING TO ENGINEER PRIOR TO PURCHASE FOR REVIEW. THE FIRE PROTECTION SYSTEM SHALL NOT BE INSTALLED UNTIL SHOP DRAWINGS HAVE BEEN SUBMITTED TO AND RECEIVED BY THE ENGINEER OF RECORD.
13.	FINAL ALARM TEST SHALL BE WITNESSED BY THE DSA INSPECTOR OF RECORD (IOR), BOTH THE DSA INSPECTOR OF RECORD (IOR) AND THE LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATE AND TIME OF FINAL FIRE ALARM TESTING BY THE FIRE ALARM CONTRACTOR. FIRE ALARM CONTRACTOR SHALL PROVIDE "RECORD OF COMPLETION" TO THE INSPECTOR OF RECORD (IOR)/DSA AFTER COMPLETION OF OPERATIONAL ACCEPTANCE TEST.
14.	POWER SERVICE SHALL BE ON A DEDICATED, 120V BRANCH CIRCUIT, WITH A RED MARKING AND IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL."
15.	AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AS AMENDED BY CFC CHAPTER 80. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UJFX OR UJUS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011.
16.	EXISTING FIELD DEVICES AND FACP SHALL REMAIN IN PLACE UNTIL NEW FIELD DEVICES ARE IN PLACE AND NEW WIRING HAS BEEN HOMERAN TO NEW LOCATION OF FACP. CONTRACTOR SHALL COORDINATE WITH SCHOOL DISTRICT TO PROVIDE AN APPROVED 24 HOUR FIRE WATCH UNTIL NEW FIRE ALARM SYSTEM IS OPERATIONAL.
17.	AUDIBLE APPLIANCES SHALL PROVIDE 15-48A ABOVE AMBIENT NOISE LEVELS IN ALL OCCUPIED AREAS AND INTELLIGIBILITY WHERE REQUIRED CBC 907.5.2.1.1.
18.	THE GROUP E BUILDINGS WERE CONSTRUCTED BEFORE THE ADOPTION OF THE 2016 CALIFORNIA BUILDING STANDARDS CODE AND WILL NOT REQUIRE CARBON MONOXIDE DETECTION PER CBC SECTION 903.15.1.
19.	SMOKE ALARMS AND SMOKE DETECTORS SHALL NOT BE INSTALLED WITHIN A 36 IN. (910 MM) HORIZONTAL PATH FROM THE SUPPLY REGISTERS OF A FORCED AIR HEATING OR COOLING SYSTEM AND SHALL BE INSTALLED OUTSIDE OF THE DIRECT AIRFLOW FROM THOSE REGISTERS PER NFPA 72, SECTION 29.11.3.4(7).
20.	CONTRACTOR SHALL PROGRAM FIRE ALARM CONTROL PANEL UNIT FOR ALL DEVICES TO BE ADDRESSED AND LOCATIONS TO APPEAR ON PANEL AND REPORT TO MONITORING AGENCY WITH PHYSICAL LOCATION DESCRIPTION AND ADDRESS OF DEVICES.
21.	BACK-UP BATTERIES MUST BE MARKED WITH MONTH AND YEAR OF MANUFACTURER.

GENERAL CONSTRUCTION NOTES	
1.	CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. MATERIALS AND EQUIPMENT SHALL BE U.L. LISTED AND LABELED FOR THE APPLICATION.
2.	THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTION FEES REQUIRED BY THIS CONTRACT WORK.
3.	CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BIDDING AND ALLOW FOR ALL FIELD CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL WORK NOTED AND CALLED OUT ON ALL CONTRACT DOCUMENTS. THE CONTRACTOR SHALL OBTAIN INFORMATION AND BE FAMILIAR WITH ALL OTHER TRADES WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN OTHER TRADES ON PROJECT.
4.	CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE INSURANCE COVERAGE AS NECESSARY FOR LIABILITY AND PERSONAL PROPERTY DAMAGE. TO FULLY PROTECT THE OWNER, ARCHITECT AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING FROM THIS WORK.
5.	CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS TO ELECTRICAL SYSTEMS. THE CONTRACTOR SHALL AT THE CONCLUSION OF THE PROJECT PROVIDE ACCURATE "AS-BUILT" DRAWINGS ACCEPTABLE TO THE ARCHITECT.
6.	ALL MATERIALS PROVIDED TO THE PROJECT SHALL BE NEW. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL INCIDENTAL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
7.	CONTRACTOR SHALL PROVIDE TO THE ARCHITECT A CONSTRUCTION SCHEDULE OF ELECTRICAL WORK. THE CONSTRUCTION SCHEDULE SHALL IDENTIFY ALL SIGNIFICANT MILESTONES WITH COMPLETION DATES.
8.	CONTRACTOR SHALL PROVIDE ALL REQUIRED "CUTTING, PATCHING, EXCAVATION, BACKFILL AND REPAIRS" NECESSARY TO RESTORE DAMAGED SURFACES TO EQUAL OR BETTER THAN ORIGINAL CONDITIONS EXISTING AT START OF WORK.
9.	CONTRACTOR SHALL BE RESPONSIBLE FOR PAINTING ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECT'S PAINTING SECTION FOR REQUIREMENTS.
10.	ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL BE WEATHERPROOF. EXTERIOR CONDUITS RUN INTO BUILDINGS SHALL BE INSTALLED WITH FLASHING, CAULKED AND SEALED. CONDUITS FOR EXTERIOR ELECTRICAL DEVICES SHALL BE RUN INSIDE BUILDING UNLESS OTHERWISE NOTED ON DRAWINGS.
11.	ALL CONDUITS UNLESS OTHERWISE NOTED ON DRAWINGS SHALL HAVE AS A MINIMUM: TWO (2) #12s WITH ONE (1) #12 GROUND. "TICK" MARKS SHOWN ON CIRCUITRY ARE FOR ROUGH ESTIMATING ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WIRES AND WIRE SIZES REQUIRED BY LATEST CODE.
12.	ALL BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRALS. SHARED NEUTRALS ON MULTIWIRED CIRCUITS IS NOT ALLOWED.
13.	COORDINATE ALL CONDUIT RUNS, ELECTRICAL EQUIPMENT AND PANELS WITH ALL OTHER WORK TO AVOID CONFLICTS.
14.	CONTRACTOR SHALL PROVIDE IN EVERY NEW EMPTY CONDUIT A DRAW STRING FOR USE IN FUTURE CONSTRUCTION.
15.	ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE. CUT AND PATCH EXISTING WALLS WHERE NECESSARY. WHERE IT IS NECESSARY TO CUT OR BORE EXISTING STRUCTURAL WALLS FOR NEW ELECTRICAL WORK OBTAIN PERMISSION FROM THE ARCHITECT PRIOR TO STARTING WORK. REUSE EXISTING CONDUIT WHERE POSSIBLE.
16.	WHERE IT IS NOT POSSIBLE TO REUSE EXISTING CONDUIT OR RUN NEW CONCEALED CONDUIT USE NON-METALLIC SURFACE RACEWAY AND BOXES. ROUTING OF ALL NON-METALLIC RACEWAYS SHALL BE APPROVED BY THE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.
17.	EXTENSION RINGS OR RESET BOXES TO BE FLUSH WITH NEW WALL THICKNESS.
18.	CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO EXISTING UNDERGROUND SYSTEMS (GAS, WATER, TELEPHONE, ELECTRICAL, SEWER, ETC.). THE CONTRACTOR SHALL REPAIR & PAY ALL EXPENSES FOR DAMAGE TO EXISTING UNDERGROUND SYSTEMS AS A RESULT OF NEW WORK. REPAIR TO DAMAGED UNDERGROUND SYSTEMS SHALL BE TO THE OWNERS SATISFACTION WITHOUT EXTRA EXPENSE TO THE OWNER.
19.	EXISTING WIRING SHOWN HAS BEEN TAKEN FROM OLD PLANS AND IS ASSUMED TO BE CORRECT. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS AND MAKE ADJUSTMENTS TO SUIT ACTUAL CONDITIONS AND TO MEET THE INTENT OF THE CONTRACT DOCUMENTS.
20.	WHERE NON-METALLIC SHEATHED CONDUCTORS ARE FOUND, THE CONTRACTOR SHALL REMOVE TO FULLEST EXTENT PER THE GENERAL DEMOLITION NOTES AND REPLACE WITH CONDUIT. METAL CLAD CABLE WILL BE PERMITTED ON A CASE-BY-CASE BASIS ONLY BY WRITTEN APPROVAL FROM THE ARCHITECT.
21.	ALL INSTALLATION OF EXPOSED SURFACE MOUNTED RACEWAY IN PUBLIC AREAS SHALL BE REVIEWED BY ARCHITECT BEFORE ROUGH-IN. CONTRACTOR IS TO DETERMINE THE ACCESSIBILITY OF ATTIC, FURRED SPACE, HOLLOW MULLIONS, ETC. IN EACH AREA AND REVIEW WITH ARCHITECT. IF SYSTEM CAN BE ROUTED CONCEALED EITHER BY FISHING OR ACCESSIBILITY, CONTRACTOR IS TO DO SO. IF INACCESSIBILITY IS DETERMINED, CONTRACTOR SHALL INSTALL SURFACE MOUNTED RACEWAY IN THE MOST AESTHETICALLY PLEASING MEANS AS DETERMINED BY THE ARCHITECT. NO ALLOWANCE FOR ADDITIONAL COMPENSATION DUE TO ROUTING AS DIRECTED BY THE ARCHITECT WILL BE MADE.

SYMBOLS & ABBREVIATIONS			
SYMBOLS			
	MANUAL PULL STATION		
	STROBE ONLY		
	STROBE ONLY (CEILING MOUNTED)		
	SPEAKER ONLY		
	MINI HORN		
	SPEAKER/STROBE		
	SPEAKER/STROBE (CEILING MOUNTED)		
	CHIME/STROBE		
	HEAT DETECTOR		
	HEAT DETECTOR (ABOVE ACCESSIBLE CEILING)		
	SMOKE DETECTOR		
	DUCT SMOKE DETECTOR		
	TAMPER SWITCH		
	FLOW SWITCH		
	POST INDICATING VALVE		
	BELL (GONG)		
	FIRE ALARM CONTROL PANEL		
	REMOTE POWER SUPPLY		
	DIGITAL AUDIO AMPLIFIER		
	END OF LINE		
	JUNCTION BOX - CEILING/WALL MOUNTED, SIZE PER CODE, TAPE AND TAG WIRES		
	PULLBOX		
	CONDUIT - HOME RUN TO PANEL, TERMINAL CABINET, ETC. AS INDICATED RUNS MARKED WITH CROSSHATCHES INDICATE NUMBER OF #12 AWG WIRES WHEN MORE THAN TWO. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODE.		
	CROSS HATCHES WITH NUMBER ADJACENT INDICATES WIRE SIZE OTHER THAN #12 AWG.		
	CONDUIT - EXISTING		
	CONDUIT - IN OR BELOW FLOOR: 3/4" MIN.		
	CONDUIT CONTINUATION.		
	SHEET NOTE REFERENCE SYMBOL; SEE ASSOCIATED NOTE ON SAME SHEET.		
	DETAIL OR SECTION DESIGNATION.		
ABBREVIATIONS			
ARCH.	ARCHITECT	FSD	FIRE SMOKE DAMPER
AWG	AMERICAN WIRE GAUGE	IDC	INITIATING DEVICE CIRCUITS
BKR	BREAKER	(N)	NEW
CO	CONDUIT ONLY	NAC	NOTIFICATION APPLIANCE CIRCUITS
CB	CIRCUIT BREAKER	NIC	NOT IN CONTRACT
CKT	CIRCUIT	NO	NUMBER
CLG	CEILING	SLC	SIGNALING LINE CIRCUITS
(E)	EXISTING	TYP	TYPICAL
EOL	END OF LINE	UON	UNLESS OTHERWISE NOTED
FA	FIRE ALARM	WP	WEATHERPROOF
FACP	FIRE ALARM CONTROL PANEL		
FBO	FURNISHED BY OTHERS		
TYPICAL ZONE NOMENCLATURE			
<p>"S2" DENOTES SIGNAL CIRCUIT #2 "75" DENOTES CANDELA RATING "4" DENOTES DEVICE #4 "M" DENOTES MODULE DEVICE; "D" DENOTES DETECTOR DEVICE "1" DENOTES LOOP# "S" DENOTES DEVICE #5 CROSSHATCH INDICATES NUMBER OF WIRES REQUIRED, SUBSCRIPT LETTER INDICATES TYPE OF CIRCUIT. SEE GENERAL NOTES THIS SHEET FOR NUMBER & TYPE OF WIRES AND CIRCUIT TYPE.</p>			

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EQUIPMENT ANCHORAGE	
<u>M/E/P COMPONENT ANCHORAGE NOTES:</u>	
ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:	
1.	ALL PERMANENT EQUIPMENT AND COMPONENTS.
2.	TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3.	TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.
THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED IN THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.	
A.	COMPONENTS WEIGHTING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B.	COMPONENTS WEIGHTING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.
THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT OF THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.	
<u>PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE</u>	
PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8 AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.	
THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON PRE-APPROVED INSTALLATION GUIDE (e.g. OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.	
MP <input type="checkbox"/> MD <input type="checkbox"/> PP <input type="checkbox"/> E <input type="checkbox"/>	- OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
MP <input type="checkbox"/> MD <input type="checkbox"/> PP <input type="checkbox"/> E <input type="checkbox"/>	- OPTION 2: SHALL COMPLY WITH THE APPLICABLE HCAI PRE-APPROVED (OPM #) #

APPLICABLE CODES & STANDARDS	
<u>CODES:</u>	
1.	2022 CALIFORNIA ADMINISTRATIVE CODE C.A.C., PART 1, TITLE 24, C.C.R.
2.	2022 CALIFORNIA BUILDING CODE (CBC) C.C.R., TITLE 24, VOL. 1 & 2 BASED ON THE 2021 INTERNATIONAL BUILDING CODE (IBC) WITH CALIFORNIA AMENDMENTS.
3.	2022 NATIONAL ELECTRICAL CODE (NEC) C.C.R., TITLE 24, PART 3 BASED ON THE 2020 NATIONAL ELECTRICAL CODE (NEC) WITH CALIFORNIA AMENDMENTS.
4.	2022 CALIFORNIA MECHANICAL CODE (CMC) C.C.R., TITLE 24, PART 4 BASED ON THE 2021 UNIFORM MECHANICAL CODE (UMC) WITH CALIFORNIA AMENDMENTS.
5.	2022 CALIFORNIA PLUMBING CODE (CPC) C.C.R., TITLE 24, PART 5 BASED ON THE 2021 UNIFORM PLUMBING CODE (UPC) WITH CALIFORNIA AMENDMENTS.
6.	2022 CALIFORNIA ENERGY CODE C.C.R., TITLE 24, PART 6.
7.	2022 CALIFORNIA FIRE CODE (CFC) C.C.R., TITLE 24, PART 9 BASED ON THE 2021 INTERNATIONAL FIRE CODE (IFC) WITH CALIFORNIA AMENDMENTS.
8.	2022 CALIFORNIA GREEN BUILDING STANDARDS CODE C.C.R., TITLE 24, PART 11.
9.	2022 CALIFORNIA REFERENCED STANDARDS CODE C.C.R., TITLE 24, PART 12.
10.	TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
11.	NATIONAL FIRE ALARM CODE (NFPA 72) 2022.
<u>STANDARDS:</u>	
1.	AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
2.	ELECTRONICS INDUSTRIES ASSOCIATION (EIA)
3.	INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
4.	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
5.	NATIONAL ELECTRICAL TESTING ASSOCIATION (NETA)
6.	UNDERWRITER LABORATORIES (UL)
7.	CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT STANDARDS (CAL/OSHA)

SHEET INDEX	
FA0.1	FIRE ALARM SYMBOLS, ABBREVIATIONS, EQUIPMENT LIST, OPERATIONAL MATRIX & NOTES.
FA1.1	FIRE ALARM RISER DIAGRAM.
FA1.2	FIRE ALARM RISER DIAGRAM.
FA1.3	BATTERY & VOLTAGE DROP CALCULATIONS.
FA2.1	FIRE ALARM SITE PLAN.
FA3.1	FIRE ALARM DEMOLITION PLAN.
FA4.1	FIRE ALARM PLAN - MAIN BUILDING.
FA4.2	FIRE ALARM PLAN - MAIN BUILDING.
FA4.3	FIRE ALARM PLAN - MAIN BUILDING BASEMENT.
FA4.4	FIRE ALARM PLAN - BUILDING A.
FA4.5	FIRE ALARM PLAN - BUILDING C.
FA4.6	FIRE ALARM PLAN - BUILDING B.
FA4.7	FIRE ALARM PLAN - BUILDINGS D1, D2, D3.
FA5.1	FIRE ALARM DETAILS.

FIRE ALARM SYSTEM OPERATIONAL MATRIX					
CAUSE	ALARM	TROUBLE	SUPERVISORY	MISC.	REMARKS
BEAM/SMOKE DETECTORS	•	•	•	•	
HEAT DETECTORS	•	•	•	•	
DUCT SMOKE DETECTOR	•	•	•	•	
MANUAL PULL STATION	•	•	•	•	
KITCHEN HOOD SUPPRESSION SYSTEM RESET	•	•	•	•	
SIGNAL SILENCE	•	•	•	•	
AC POWER FAILURE	•	•	•	•	
FLOW SWITCH	•	•	•	•	
TAMPER SWITCH	•	•	•	•	
FIRE ALARM TROUBLE (OPEN, SHORTS, OR GROUNDS) ON INITIATION OR SIGNALING CIRCUITS	•	•	•	•	

Drawing Title:
FIRE ALARM SYMBOLS, ABBRE., EQUIPMENT LIST, SHEET INDEX, OPERATIONAL MATRIX & NOTES

Scale: _____ Sheet: _____

FA0.1

Revision: _____

Date: June, 2024 Job Number: 1720.01

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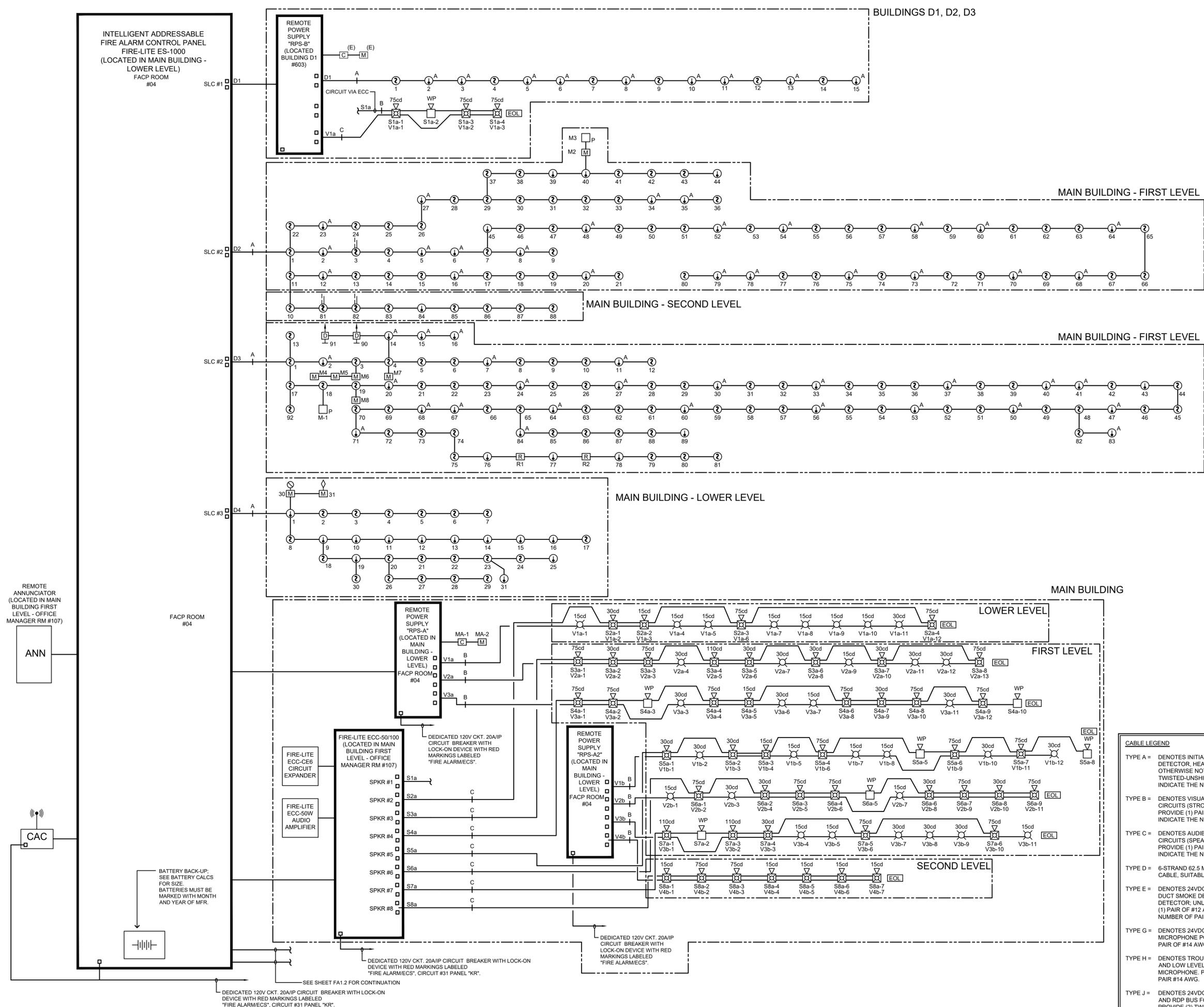
Drawing Title:
**FIRE ALARM
 RISER DIAGRAM**

Scale: Sheet:

FA1.1

Revision:

Date: June, 2024 Job Number: 1720.01



1 FIRE ALARM RISER DIAGRAM

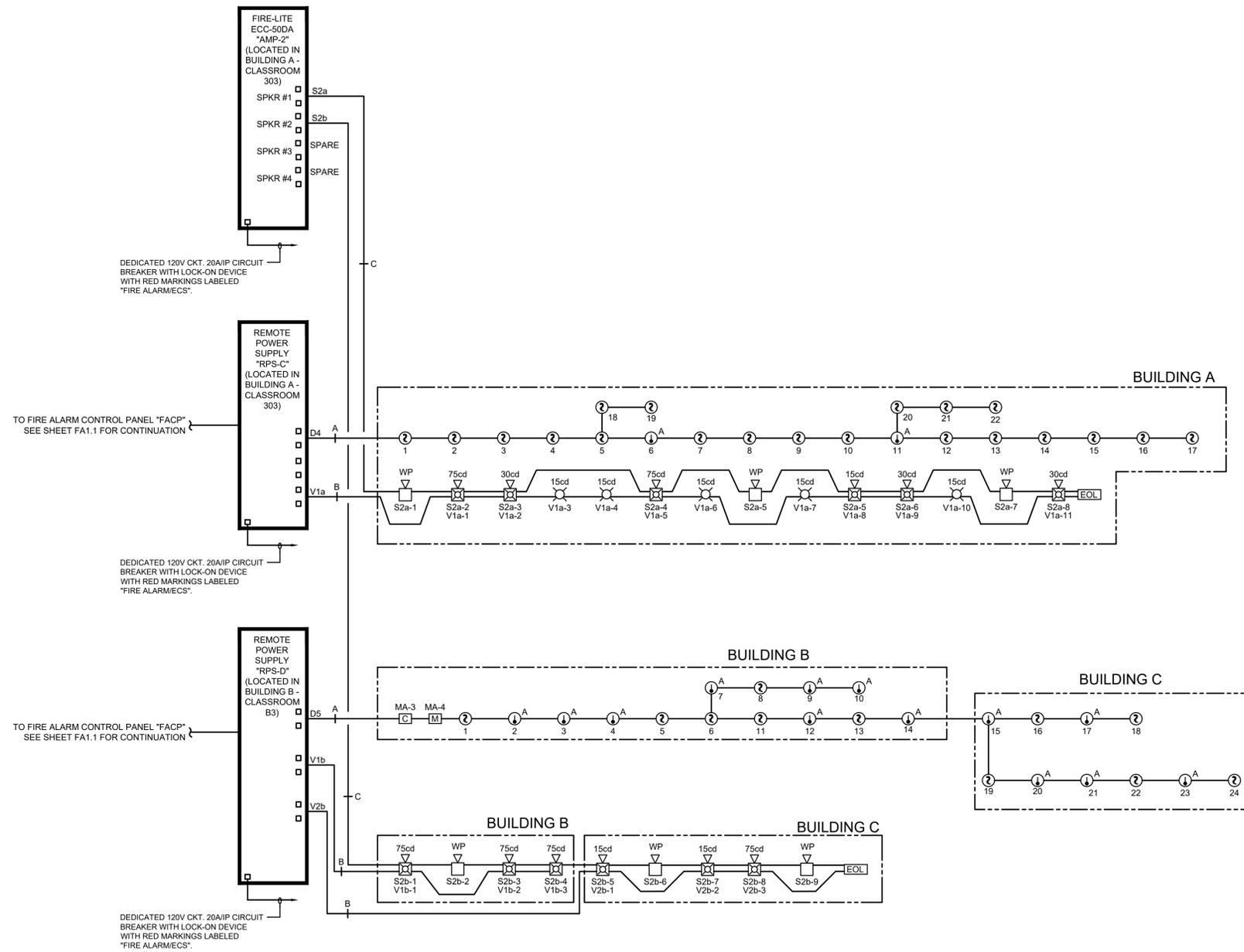
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CABLE LEGEND	
TYPE A =	DENOTES INITIATING DETECTION CIRCUITS (SMOKE DETECTOR, HEAT DETECTOR, ETC.) UNLESS OTHERWISE NOTED, PROVIDE (1) #14 TWISTED-UNSHIELDED PAIR. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.
TYPE B =	DENOTES VISUAL NOTIFICATION APPLIANCE CIRCUITS (STROBES) UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #12 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.
TYPE C =	DENOTES AUDIBLE NOTIFICATION APPLIANCE CIRCUITS (SPEAKERS) UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #14 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.
TYPE D =	6-STRAND 62.5 MICRON MULTI-MODE FIBER OPTIC CABLE, SUITABLE FOR UNDERGROUND USE.
TYPE E =	DENOTES 24VDC CONSTANT POWER CIRCUITS FOR DUCT SMOKE DETECTOR OR BEAM SMOKE DETECTOR; UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #12 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.
TYPE G =	DENOTES 24VDC POWER CIRCUIT FOR REMOTE MICROPHONE POWERED FROM DVC. PROVIDE (1) PAIR OF #14 AWG.
TYPE H =	DENOTES TROUBLE CONTACTS MONITORED BY FACP AND LOW LEVEL AUDIO INPUT FROM REMOTE MICROPHONE. PROVIDE (2) TWISTED UNSHIELDED PAIR #14 AWG.
TYPE J =	DENOTES 24VDC NON-RESETTING POWER CIRCUIT AND RDP BUS FOR REMOTE ANNUNCIATION. PROVIDE (2) TWISTED SHIELDED PAIR #14 AWG.

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Drawing Title:
FIRE ALARM RISER DIAGRAM

Scale: _____ Sheet:
FA1.2

Revision: _____

SHEET NOTES

- EXISTING 3" C. WITH (N) CONDUCTORS FOR FIRE ALARM DEVICES.
- NOT IN SCOPE.

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CABLE LEGEND

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

TYPE B = DENOTES VISUAL NOTIFICATION APPLIANCE CIRCUITS (STROBES) UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #12 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE C = DENOTES AUDIO NOTIFICATION APPLIANCE CIRCUITS (SPEAKERS) UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #14 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

GENERAL NOTES:

A. CONTRACTOR SHALL LOCATE ALL (E) UNDERGROUND UTILITIES PRIOR TO TRENCHING AND TAKE CAUTION TO AVOID DAMAGE DURING TRENCHING. HAND TRENCH IF NECESSARY. CONTRACTOR SHALL MAKE ALL REPAIRS TO DAMAGED UTILITIES AT NO CHARGE TO DISTRICT.

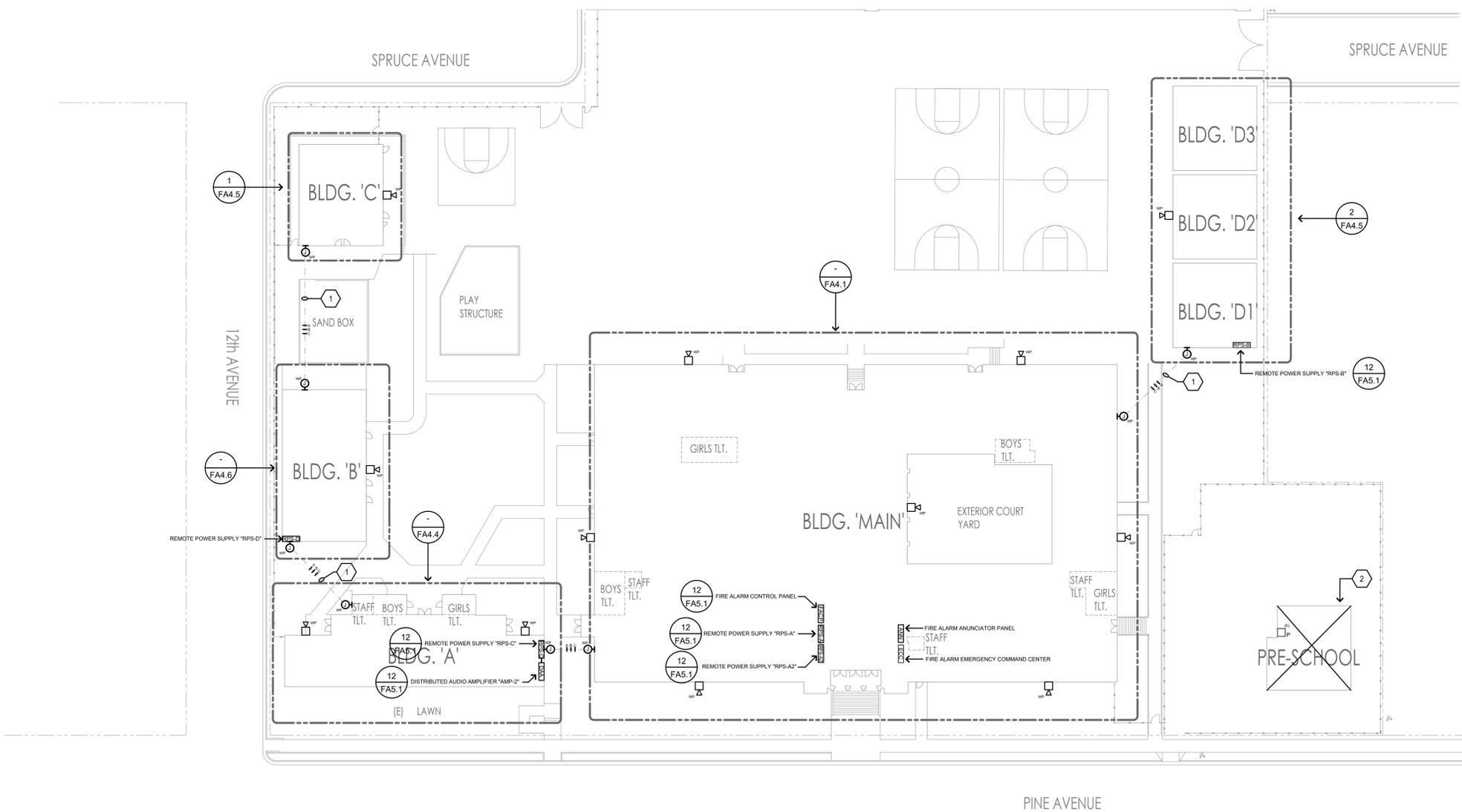
B. SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS, CUT AND PATCH WALLS/CEILINGS FOR CONDUIT ROUTING AS NECESSARY. PAINT/FINISH EXPOSED CONDUITS/BOXES TO MATCH BUILDING FINISH. COORDINATE WITH DISTRICT & ARCHITECT FOR EXACT REQUIREMENTS.

C. ALL BUILDING FIRE ALARM DEVICES (REMOTE POWER SUPPLIES, DIGITAL AUDIO AMPLIFIERS AND OUTDOOR SPEAKERS) ARE SHOWN FOR REFERENCE ONLY; SEE FIRE ALARM PLANS FOR EXACT LOCATIONS.

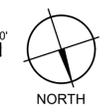
NOTE:

INTERCONNECTION OF FIRE ALARM IS NOT PROVIDED FOR THE EXISTING PRE-SCHOOL BUILDING, COMPLYING WITH CBC SEC. 907.2.3.1 EXCEPTION:

- PRESCHOOL BUILDING IS LOCATED MORE THAN 20 FT FROM OTHER SCHOOL BUILDING.
- METHOD OF TWO WAY COMMUNICATION, BETWEEN EACH CLASSROOMS AND THE SCHOOL ADMIN OFFICE, INCLUDES EXISTING HARDWIRED LANDLINE AND RADIO.
- EXISTING MANUAL PULL STATIONS ARE PROVIDED AT THE PRESCHOOL BUILDING.



SCALE: 1"=30'-0"



Drawing Title:
FIRE ALARM SITE PLAN

Scale: _____ Sheet:
FA2.1

Revision: _____
Date: June, 2024 Job Number: 1720.01



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SHEET NOTES

- CONTRACTOR SHALL DEMOLISH FIRE ALARM SYSTEM COMPLETE (FIRE ALARM CONTROL PANEL, DEVICES, WIRING, ETC.) PER GENERAL DEMOLITION NOTES ON THIS SHEET. PROVIDE AND INSTALL DEVICE COVER PLATES OVER OPENINGS TO ENSURE ALL OPENINGS ARE COMPLETELY COVERED FROM REMOVED DEVICES; PAINT/FINISH TO MATCH EXISTING WALLS. CONTRACTOR SHALL ASSUME QUANTITY OF DEVICES BEING DEMOLISHED TO BE THE SAME AS QUANTITY OF NEW DEVICES BEING ADDED AS PART OF NEW WORK. IN ADDITIONAL ALL HEAT DETECTORS IN ACCESSIBLE CEILING SPACES SHALL BE DEMOLISHED COMPLETE. ASSUME MINIMUM (2) HEAT DETECTORS PER ENCLOSED SPACE. CONTRACTOR SHALL INSTALL COVER PLATES AND PATCH WALLS/CEILINGS WHERE EXISTING DEVICES ARE REMOVED.
- NOT IN SCOPE.

GENERAL DEMOLITION NOTES

- CONTRACTOR SHALL FIELD VERIFY EXTENT OF ELECTRICAL DEMOLITION AND QUANTITIES OF ELECTRICAL TO BE REMOVED AS DICTATED BY THE REQUIREMENTS OF THE PROJECT.
- REMOVAL SHALL INCLUDE WIRING, RACEWAY, BOXES, SWITCHES, LIGHT FIXTURES, ETC. AS INDICATED ON THE PLANS AND AS REQUIRED BY THESE DEMOLITION NOTES.
- RACEWAYS ASSOCIATED WITH ELECTRICAL BEING DEMOLISHED WHICH ARE CONCEALED IN EXISTING REMAINING WALLS MAY BE ABANDONED IN PLACE. REMOVE WIRING FROM CONDUIT.
- RACEWAYS ASSOCIATED WITH ELECTRICAL BEING DEMOLISHED WHICH ARE EXPOSED SHALL BE REMOVED.
- WHERE REMOVAL OF EQUIPMENT OR WIRING IS INDICATED, IT SHALL INCLUDE ALL ASSOCIATED WIRING BACK TO LAST ACTIVE REMAINING OUTLET, DEVICE, FIXTURE OR PANEL.
- ELECTRICAL CONTRACTOR SHALL INSURE THAT ALL REMAINING ACTIVE CIRCUITS, DEVICES, OUTLETS, LIGHT FIXTURES, ETC. HAVE NOT BEEN DISCONNECTED OR MADE INOPERATIVE DURING DEMOLITION. ELECTRICAL CONTRACTOR SHALL RESTORE ALL INTERRUPTED OR DISCONNECTED CIRCUITS TO OPERATION.
- ELECTRICAL CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL REMOVED ELECTRICAL EQUIPMENT AND MATERIAL.
- NO REMOVED EQUIPMENT OR MATERIAL SHALL BE REUSED AS PART OF NEW WORK, U.O.N.
- EXISTING REMAINING CONCEALED RACEWAYS MAY BE REUSED FOR NEW WORK PROVIDED THEY MEET ALL REQUIREMENTS OF THE SPECIFICATION FOR NEW WORK.
- EXISTING FLUSH OUTLETS MAY BE REUSED FOR NEW WORK PROVIDED THEY MEET ALL REQUIREMENTS OF THE SPECIFICATION FOR NEW WORK, MEET THE REQUIREMENTS OF THE CURRENT C.E.C. FOR VOLUME AND COINCIDE WITH LOCATION SHOWN FOR THE NEW WORK.
- FLUSH OUTLET BOXES IN EXISTING WALLS TO REMAIN MAY BE ABANDONED IN PLACE. REMOVE DEVICES AND WIRING, PLUG OPENING AND PROVIDE AND INSTALL A BLANK DEVICE PLATE.
- EXISTING WIRING SHOWN HAS BEEN TAKEN FROM OLD PLANS AND IS ASSUMED TO BE CORRECT. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS AND MAKE ADJUSTMENTS TO SUIT ACTUAL CONDITIONS AND TO MEET THE INTENT OF THE CONTRACT DOCUMENTS.
- WHERE TELEPHONE, COMPUTER DATA, FIBER OPTICS, FIRE ALARM OR OTHER COMMUNICATIONS OUTLETS OR WIRING IS TO BE DEMOLISHED IT SHALL BE REMOVED BACK TO THE NEXT TERMINAL POINT. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OWNER OR HIS REPRESENTATIVE TO HAVE EQUIPMENT AND WIRING DESIGNATED FOR REMOVAL OR PRESERVATION PRIOR TO REMOVAL OF OUTLET BOXES, CONDUIT OR WIRING BY ELECTRICAL CONTRACTOR.
- COORDINATE WITH OWNER PRIOR TO START OF DEMOLITION TO MINIMIZE POWER INTERRUPTIONS. WORK MAY HAVE TO OCCUR DURING NON-REGULAR BUSINESS HOURS. COORDINATE IN WRITING WITH OWNER ONE WEEK PRIOR TO PLANNED POWER INTERRUPTIONS.

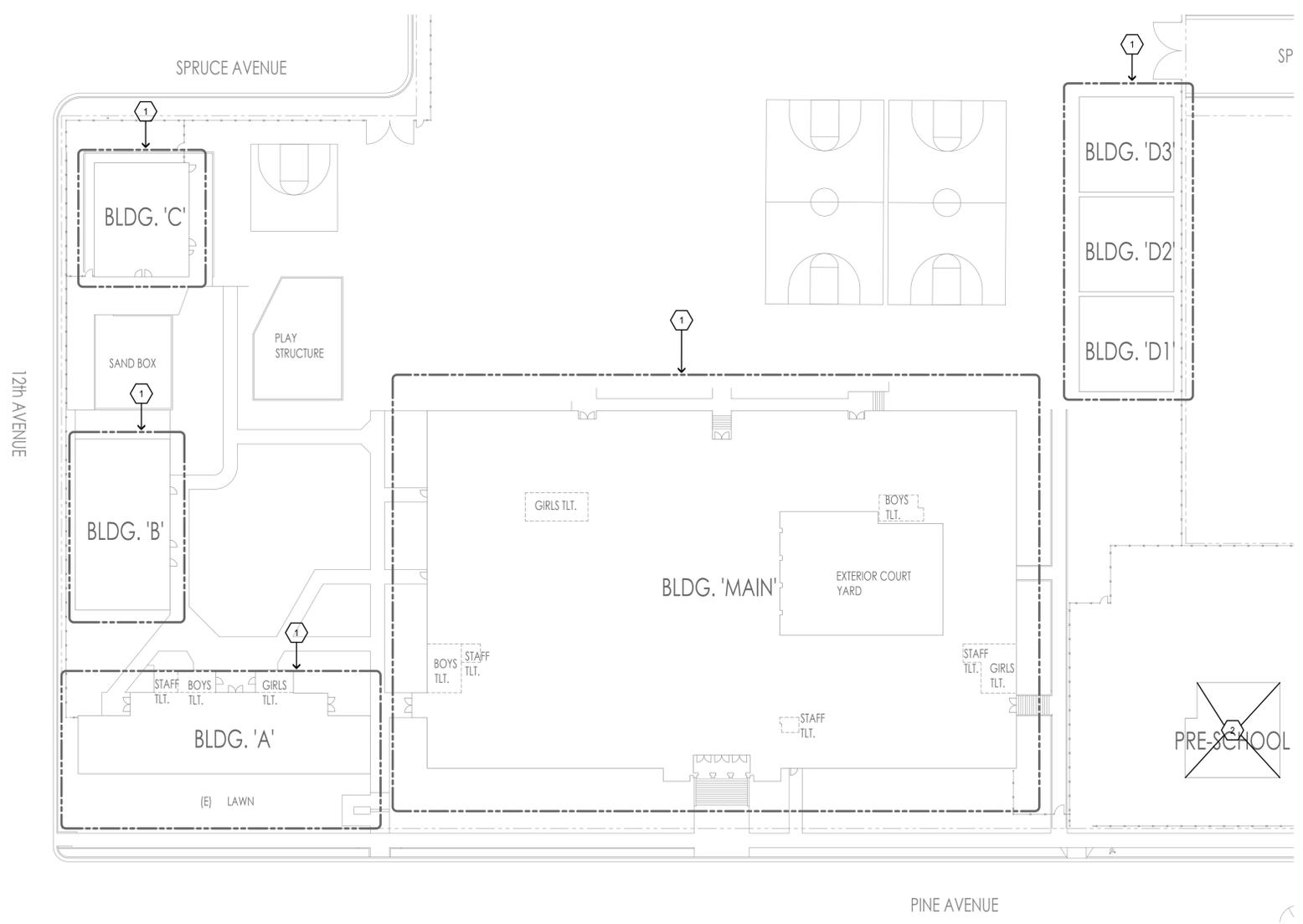
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Elementary School
Fire Alarm**

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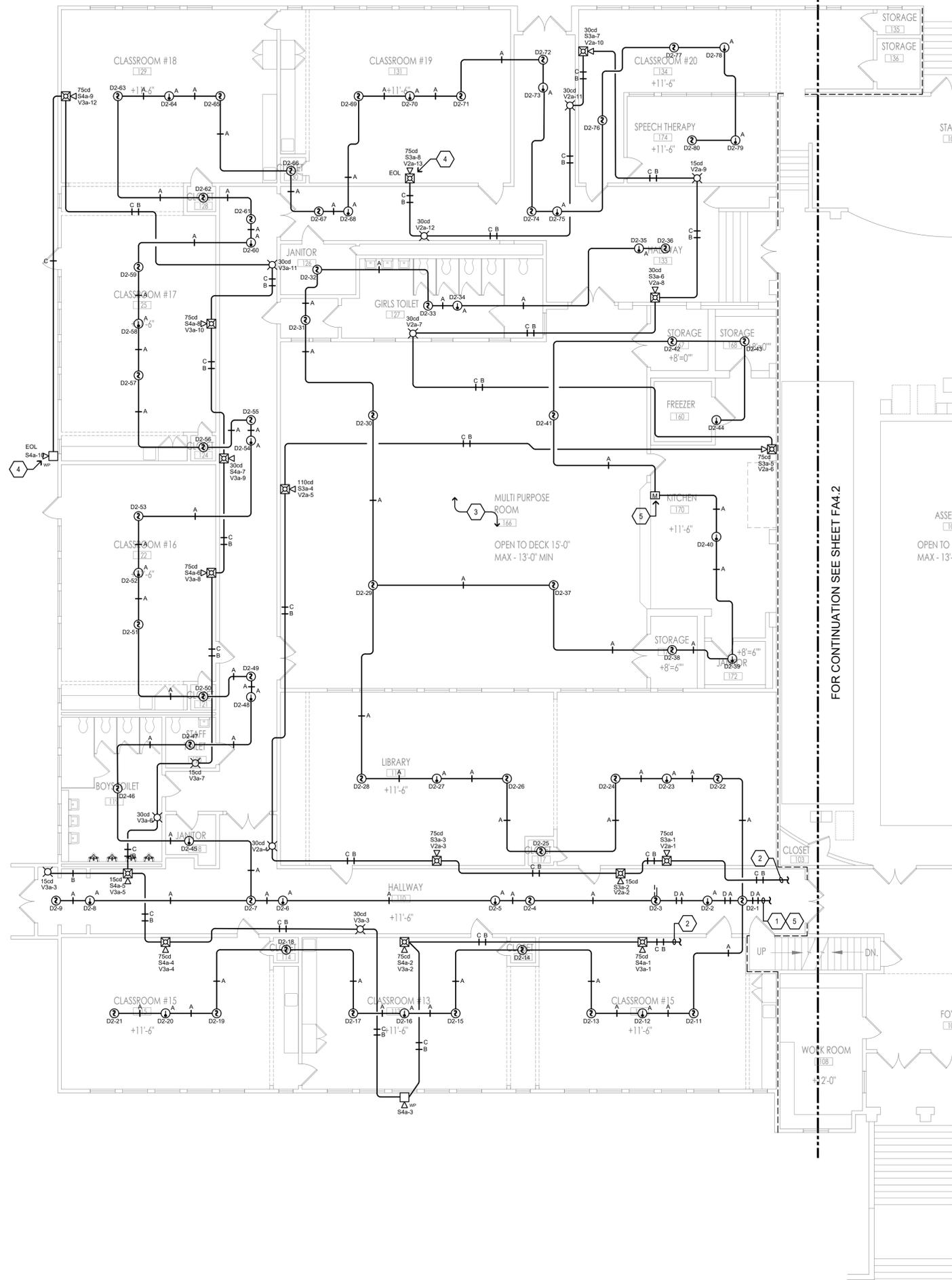
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Drawing Title:
FIRE ALARM DEMO SITE PLAN

Scale: Sheet:
FA3.1

Revision:

Date: June, 2024 Job Number: 1720.01



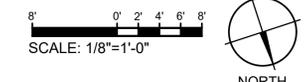
- ### SHEET NOTES
- TO FIRE ALARM CONTROL PANEL "FACP" LOCATED IN MAIN BUILDING LOWER LEVEL.
 - TO REMOTE POWER SUPPLY "RPS-A" (LOCATED IN MAIN BUILDING LOWER LEVEL) AND AUDIO AMPLIFIER "ECC" (LOCATED IN OFFICE MANAGER OFFICE).
 - PROVIDE AND INSTALL CSFM LISTED WIREGUARD FOR ALL DEVICES LOCATED IN MULTI-USE ROOM.
 - PROVIDE AND INSTALL LAMICOID NAMEPLATE ON DEVICE READING "EOL".
 - LOCATE FOR ANSLU SYSTEM.

- ### CABLE LEGEND
- TYPE A = DENOTES INITIATING DETECTION CIRCUITS (SMOKE DETECTOR, HEAT DETECTOR, ETC.) UNLESS OTHERWISE NOTED. PROVIDE (1) #14 TWISTED-UNSHIELDED PAIR. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.
 - TYPE B = DENOTES VISUAL NOTIFICATION APPLIANCE CIRCUITS (STROBES) UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #12 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.
 - TYPE C = DENOTES AUDIO NOTIFICATION APPLIANCE CIRCUITS (SPEAKERS) UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #14 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.
 - TYP3 D = DENOTES 24VDC CONSTANT POWER CIRCUITS FOR DUCT SMOKE DETECTOR OR BEAM SMOKE DETECTOR, UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #12 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

- ### GENERAL NOTES:
- SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS, CUT AND PATCH WALLS/CEILINGS FOR CONDUIT ROUTING AS NECESSARY. PAINT/FINISH EXPOSED CONDUITS/BOXES TO MATCH BUILDING FINISH. COORDINATE WITH DISTRICT & ARCHITECT FOR EXACT REQUIREMENTS.
 - ALL INDOOR SPEAKERS/HORNS SHALL BE 0.5 WATTS RATED MINIMUM. ALL OUTDOOR SPEAKERS/HORNS SHALL BE 2 WATTS RATED MINIMUM.
 - CONTRACTOR SHALL PROVIDE AND INSTALL ACCESS PANELS AS NECESSARY FOR ALL DETECTORS LOCATED IN CLOSETS AND ABOVE CEILING SPACES FOR ACCESS TO INITIATION DETECTORS.
 - ALL CEILING MOUNTED FIRE ALARM DEVICES SHALL BE CENTERED ON CEILING TILES WHERE APPLICABLE.
 - AUDIBLE APPLIANCES SHALL PROVIDE 15dBA ABOVE AMBIENT NOISE LEVELS IN ALL OCCUPIED AREAS AND INTELLIGIBILITY WHERE REQUIRED PER CBC 907.5.2.1.1.

REFERENCE A2.4 AND A6.5 OF DSA PROJECT #01-105747

(E) CONCRETE WALLS (8" CONC.)	
(E) 2-HR. CONSTRUCTION	
(E) 1-HR. CONSTRUCTION	
(E) 2-HR. CONSTRUCTION	
(E) 2-HR. CONSTRUCTION	



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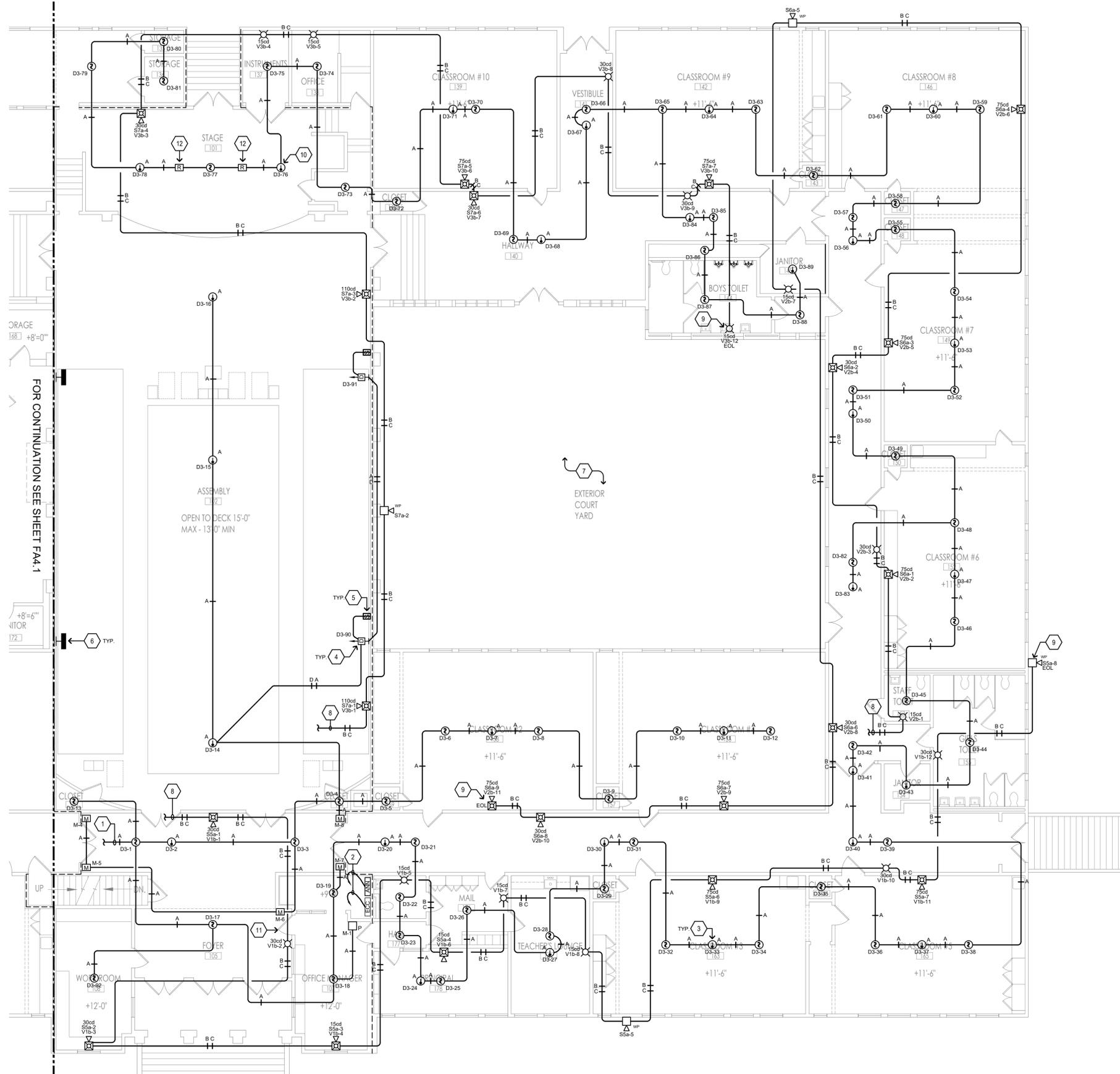
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Drawing Title:
FIRE ALARM PLAN - MAIN BUILDING - FIRST FLOOR

Scale: Sheet:
FA4.1

Revision:
Date: June, 2024 Job Number: 1720.01



- ### SHEET NOTES
- SEE SHEET FA4.3 FOR CONTINUATION.
 - HOMERUN TO TO FIRE ALARM CONTROL PANEL "FACP" LOCATED IN BUILDING BASEMENT.
 - WHERE NECESSARY CONTRACTOR SHALL PROVIDE AND INSTALL ACCESS PANEL FOR HEAT DETECTOR ABOVE CEILING, 18" SQ. OPENING MINIMUM.
 - BEAM SMOKE DETECTOR TRANSMITTER. INSTALL WITH DIRECT LINE OF SIGHT OF REFLECTOR PLATE; FIELD VERIFY EXACT MOUNTING HEIGHT.
 - CSA PROJECTED BEAM DETECTOR REMOTE TEST STATION WITH KEYLOCK; CONNECT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. MOUNT AT +44" A.F.F. TO TOP OF BOX; VERIFY EXACT LOCATION WITH ARCHITECT.
 - REFLECTOR PLATE. INSTALL WITH DIRECT LINE OF SIGHT OF TRANSMITTER; FIELD VERIFY EXACT MOUNTING HEIGHT.
 - OUTDOOR COURTYARD OPEN TO SKY ABOVE. NO ROOF IN THIS AREA. CONSIDERED BUILDING EXTERIOR.
 - TO REMOTE POWER SUPPLY "RPS-A2" (LOCATED IN MAIN BUILDING BASEMENT) AND AUDIO AMPLIFIER "ECC" (LOCATED IN OFFICE MANAGER OFFICE).
 - PROVIDE AND INSTALL LAMICOID NAMEPLATE ON DEVICE LABELED "EOL".
 - MOUNT HEAT DETECTOR UNDER STAGE.
 - PROVIDE AND INSTALL SIGNAGE TO INDICATE "FIRE ALARM COMMAND CENTER".
 - CONTROL RELAY MODULE. LOCATE WITHIN 3' OF EXISTING FIRE SMOKE DAMPER. FIRE ALARM CONTRACTOR SHALL CONNECT AND PROGRAM FIRE ALARM PANEL TO SHUT DOWN UNIT UPON DETECTION OF SMOKE AND SHALL ACTIVATE FIRE ALARM SYSTEM.

CABLE LEGEND

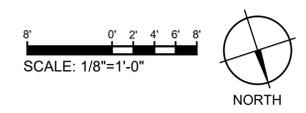
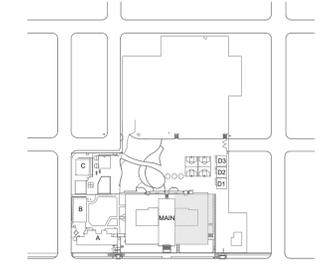
TYPE A =	DENOTES INITIATING DETECTION CIRCUITS (SMOKE DETECTOR, HEAT DETECTOR, ETC.) UNLESS OTHERWISE NOTED, PROVIDE (1) #14 TWISTED-UNSHIELDED PAIR. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.
TYPE B =	DENOTES VISUAL NOTIFICATION APPLIANCE CIRCUITS (STROBES) UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #12 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.
TYPE C =	DENOTES AUDIO NOTIFICATION APPLIANCE CIRCUITS (SPEAKERS) UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #14 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.
TYPE D =	DENOTES 24VDC CONSTANT POWER CIRCUITS FOR DUCT SMOKE DETECTOR OR BEAM SMOKE DETECTOR; UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #12 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

- #### GENERAL NOTES:
- SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS, CUT AND PATCH WALLS/CEILINGS FOR CONDUIT ROUTING AS NECESSARY. PAINT/FINISH EXPOSED CONDUITS/BOXES TO MATCH BUILDING FINISH. COORDINATE WITH DISTRICT & ARCHITECT FOR EXACT REQUIREMENTS.
 - ALL INDOOR SPEAKERS/HORNS SHALL BE 0.5 WATTS RATED MINIMUM. ALL OUTDOOR SPEAKERS/HORNS SHALL BE 2 WATTS RATED MINIMUM.
 - CONTRACTOR SHALL PROVIDE AND INSTALL ACCESS PANELS AS NECESSARY FOR ALL DETECTORS LOCATED IN CLOSETS AND ABOVE CEILING SPACES FOR ACCESS TO INITIATION DETECTORS.
 - ALL CEILING MOUNTED FIRE ALARM DEVICES SHALL BE CENTERED ON CEILING TILES WHERE APPLICABLE.
 - AUDIBLE APPLIANCES SHALL PROVIDE 15dBA ABOVE AMBIENT NOISE LEVELS IN ALL OCCUPIED AREAS AND INTELLIGIBILITY WHERE REQUIRED PER CBC 907.5.2.1.1.

REFERENCE A2.4 AND A6.5 OF DSA PROJECT #01-105747

LEGEND:	
(E) CONCRETE WALLS (8" CONC.)	
(E) 2-HR. CONSTRUCTION	
(E) 1-HR. CONSTRUCTION	
(E) 2-HR. CONSTRUCTION	
(E) 2-HR. CONSTRUCTION	

BUILDING KEY



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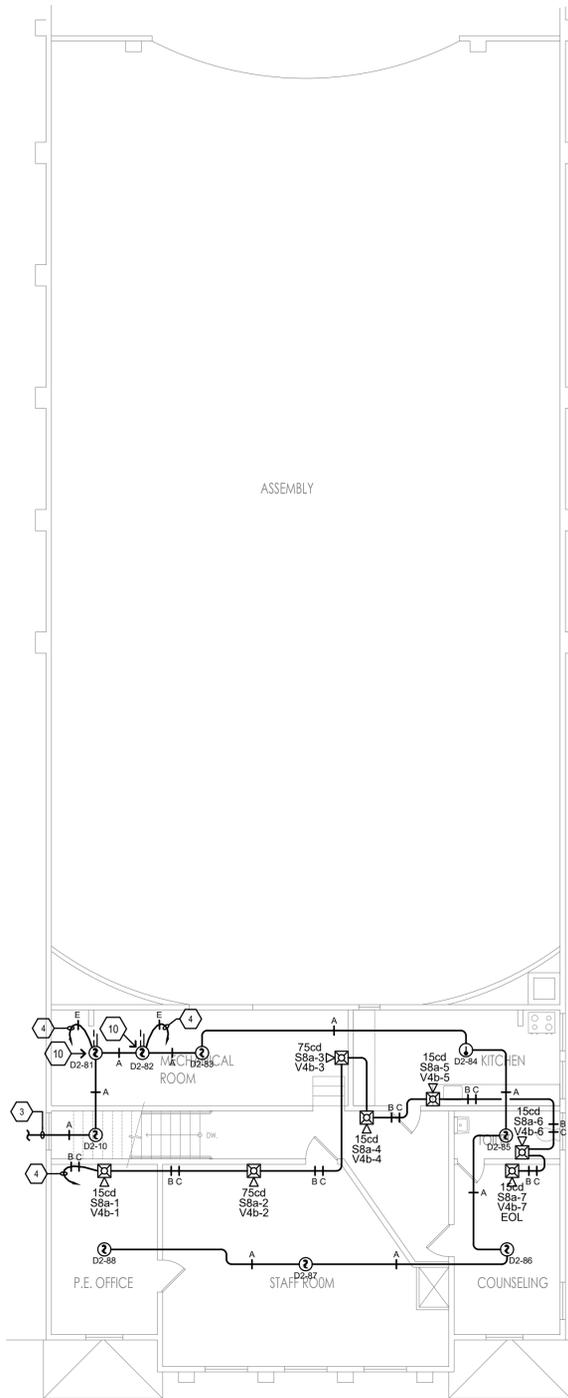
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Drawing Title:
FIRE ALARM PLAN - MAIN BUILDING - FIRST FLOOR

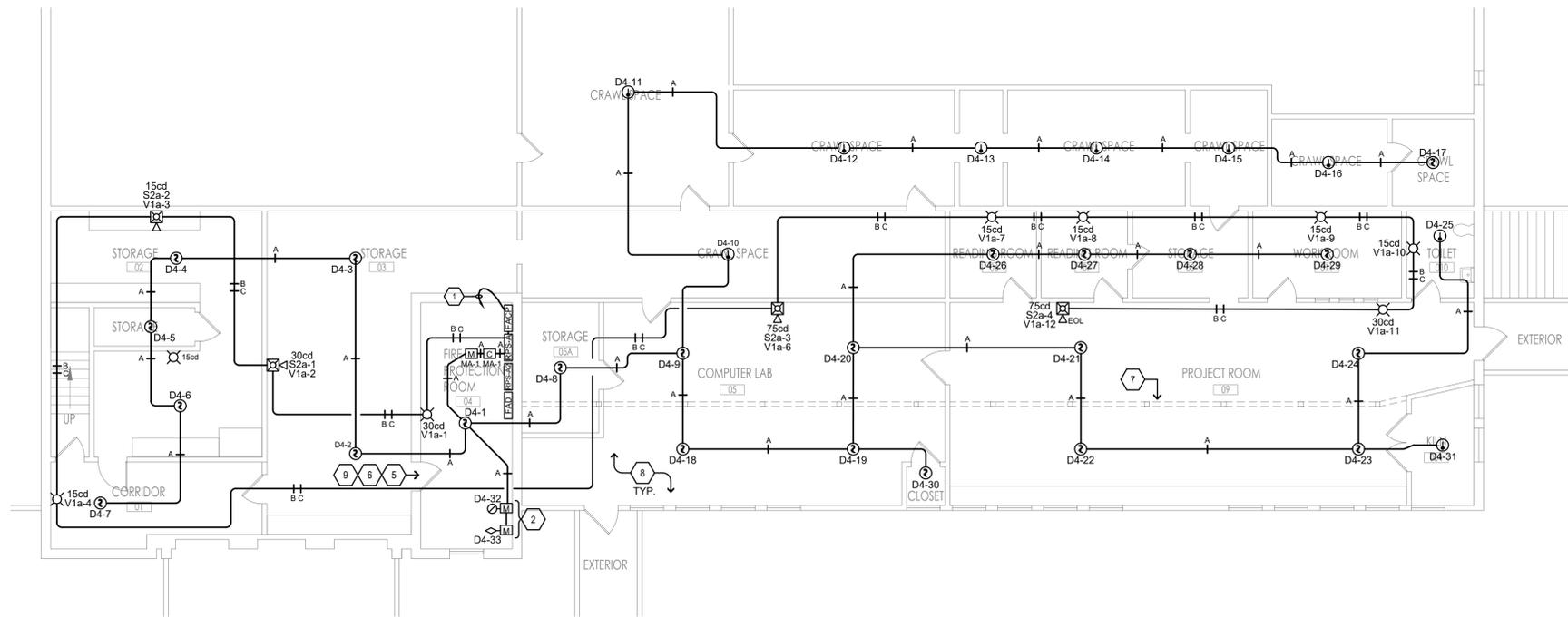
Scale: Sheet:
FA4.2

Revision:

Date: June, 2024 Job Number: 1720.01



2 FIRE ALARM PLAN - MAIN BUILDING - SECOND LEVEL
 SCALE: 1/8"=1'-0" 



1 FIRE ALARM PLAN - MAIN BUILDING - LOWER LEVEL
 SCALE: 1/8"=1'-0" 

CABLE LEGEND

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

TYPE B = DENOTES VISUAL NOTIFICATION APPLIANCE CIRCUITS (STROBES) UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #12 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE C = DENOTES AUDIO NOTIFICATION APPLIANCE CIRCUITS (SPEAKERS) UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #14 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE E = DENOTES 24VDC CONSTANT POWER CIRCUITS FOR DUCT SMOKE DETECTOR OR BEAM SMOKE DETECTOR; UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #12 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

- SHEET NOTES**
- CIRCUIT VIA 1/2" C. 2 #12 & 1 #12 GND TO EXISTING PANEL "K" LOCATED IN BUILDING BASEMENT; AT PANEL PROVIDE AND INSTALL 20 AMP, 1-POLE BREAKER WITH LOCK-ON DEVICE WITH RED MARKINGS LABELED "FIRE ALARM/EC'S".
 - LOCATE FOR TAMPER AND FLOW SWITCH.
 - SEE SHEET FA4.1 FOR CONTINUATION.
 - HOMERUN TO "RPS-A2" (LOCATED IN MAIN BUILDING - LOWER LEVEL).
 - PROVIDE AND INSTALL SIGNAGE TO INDICATE "FIRE ALARM CONTROL PANEL ROOM".
 - PROVIDE AND INSTALL SIGNAGE TO INDICATE "NO STORAGE ALLOWED".
 - EXISTING BEAM.
 - BASEMENT CEILINGS 8'-0" A.F.F.
 - PROVIDE AND INSTALL SIGNAGE TO INDICATE "FIRE RISER".
 - LOCATE DUCT DETECTOR FOR EXISTING MECHANICAL UNIT. FIELD VERIFY EXACT LOCATION.

- GENERAL NOTES:**
- SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS, CUT AND PATCH WALLS/CEILINGS FOR CONDUIT ROUTING AS NECESSARY. PAINT/FINISH EXPOSED CONDUITS/BOXES TO MATCH BUILDING FINISH. COORDINATE WITH DISTRICT & ARCHITECT FOR EXACT REQUIREMENTS.
 - ALL INDOOR SPEAKERS/HORNS SHALL BE 0.5 WATTS RATED MINIMUM. ALL OUTDOOR SPEAKERS/HORNS SHALL BE 2 WATTS RATED MINIMUM.
 - CONTRACTOR SHALL PROVIDE AND INSTALL ACCESS PANELS AS NECESSARY FOR ALL DETECTORS LOCATED IN CLOSETS AND ABOVE CEILING SPACES FOR ACCESS TO INITIATION DETECTORS.
 - ALL CEILING MOUNTED FIRE ALARM DEVICES SHALL BE CENTERED ON CEILING TILES WHERE APPLICABLE.
 - AUDIBLE APPLIANCES SHALL PROVIDE 15dB ABOVE AMBIENT NOISE LEVELS IN ALL OCCUPIED AREAS AND INTELLIGIBILITY WHERE REQUIRED PER CBC 907.5.2.1.1.
 - CONTRACTOR SHALL PROVIDE AND INSTALL DUCT SMOKE DETECTORS FOR HVAC UNIT SHUT-DOWN/MECHANICAL UNIT/FIRE SMOKE DAMPER CONTROLS; INSTALL NEW DEVICE WHERE EXISTING IS TO BE REMOVED. CONTRACTOR SHALL BE RESPONSIBLE FOR AND INCLUDE ALL MECHANICAL CONTROL PROGRAMMING/REPROGRAMMING AS PART OF NEW WORK.

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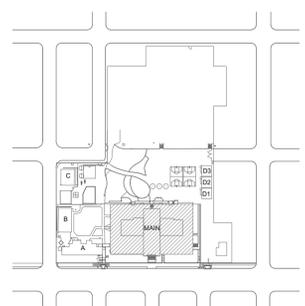
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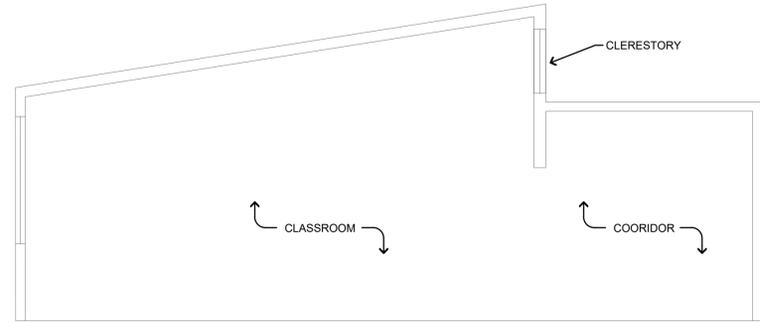
Drawing Title:
FIRE ALARM PLAN - MAIN BUILDING - LOWER LEVEL & SECOND LEVEL

Scale: Sheet:
FA4.3

Revision:

 Date: June, 2024 Job Number: 1720.01





2 TYPICAL CLASSROOM SECTION
SCALE: 1/4"=1'-0"

SHEET NOTES

- TO FIRE ALARM CONTROL PANEL "FACP" LOCATED IN MAIN BUILDING BASEMENT.
- PROVIDE AND INSTALL LAMICOID NAMEPLATE ON DEVICE READING "EOL".

GENERAL NOTES:

- SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS, CUT AND PATCH WALLS/CEILINGS FOR CONDUIT ROUTING AS NECESSARY. PAINT/FINISH EXPOSED CONDUITS/BOXES TO MATCH BUILDING FINISH. COORDINATE WITH DISTRICT & ARCHITECT FOR EXACT REQUIREMENTS.
- ALL INDOOR SPEAKERS/HORNS SHALL BE 0.5 WATTS RATED MINIMUM. ALL OUTDOOR SPEAKERS/HORNS SHALL BE 2 WATTS RATED MINIMUM.
- CONTRACTOR SHALL PROVIDE AND INSTALL ACCESS PANELS AS NECESSARY FOR ALL DETECTORS LOCATED IN CLOSETS AND ABOVE CEILING SPACES FOR ACCESS TO INITIATION DETECTORS.
- ALL CEILING MOUNTED FIRE ALARM DEVICES SHALL BE CENTERED ON CEILING TILES WHERE APPLICABLE.
- AUDIBLE APPLIANCES SHALL PROVIDE 15dB(A) ABOVE AMBIENT NOISE LEVELS IN ALL OCCUPIED AREAS AND INTELLIGIBILITY WHERE REQUIRED PER CBC 907.5.2.1.1.

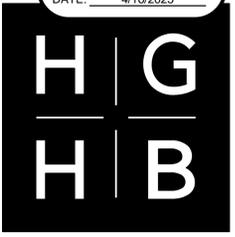
CABLE LEGEND:

TYPE A = DENOTES INITIATING DETECTION CIRCUITS (SMOKE DETECTOR, HEAT DETECTOR ETC.) UNLESS OTHERWISE NOTED, PROVIDE (1) #14 SHIELDED PAIR. RUNS MARKED WITH CROSSHATCHES INDICATE THE NUMBER OF PAIRS WHEN MORE THAN ONE.

TYPE B = DENOTES NOTIFICATION APPLIANCE CIRCUITS FOR STROBES UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #12 AWG. RUNS MARKED WITH CROSSHATCHES INDICATE THE NUMBER OF PAIRS WHEN MORE THAN ONE.

TYPE C = DENOTES NOTIFICATION APPLIANCE CIRCUITS FOR SPEAKERS UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #12 AWG. RUNS MARKED WITH CROSSHATCHES INDICATE THE NUMBER OF PAIRS WHEN MORE THAN ONE.

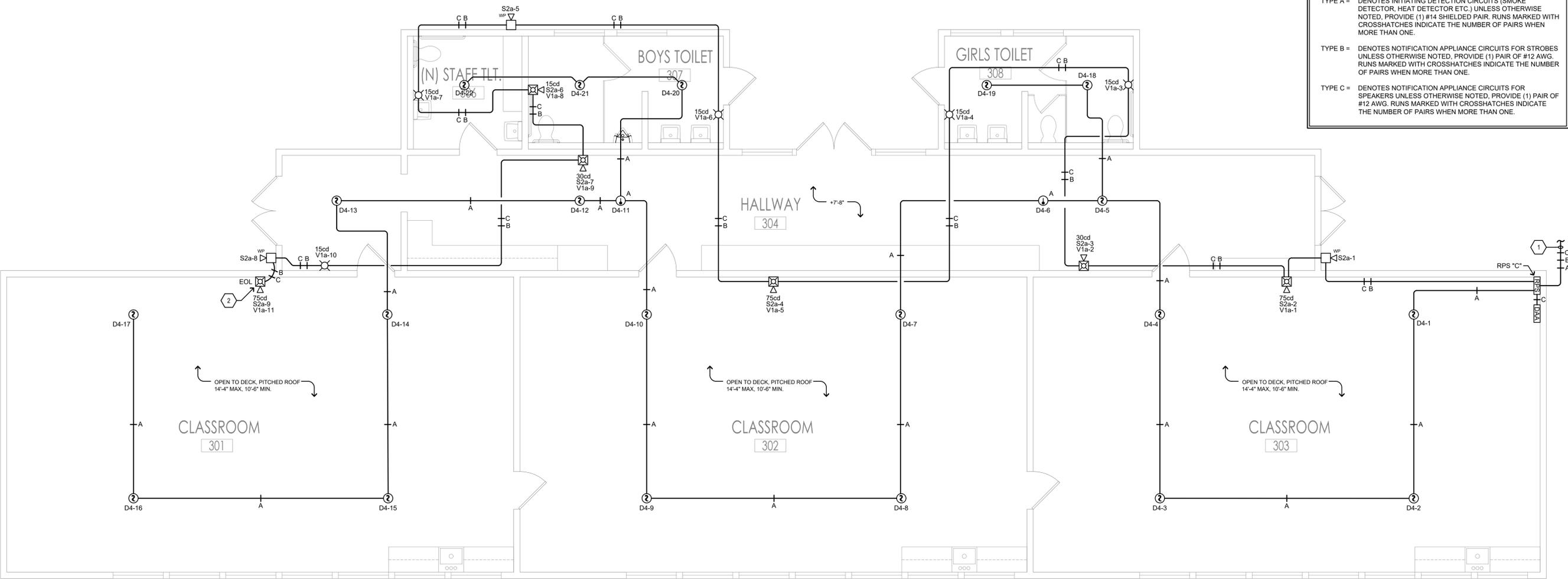
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Tel 831.375.9594

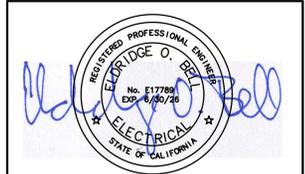
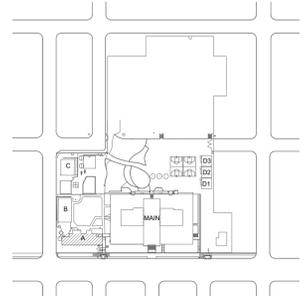
Robert H. Down
Elementary School
Fire Alarm

485 Pine Avenue
Pacific Grove, CA. 93950



1 FIRE ALARM PLAN - BUILDING A
SCALE: 1/4"=1'-0"

BUILDING KEY



AURUM CONSULTING ENGINEERS
MONTEREY BAY, INC.
Project No. 24-209.00
404 W. Franklin St. • Suite 100 • Monterey, CA 93940
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Drawing Title:
FIRE ALARM PLAN - BUILDING A

Scale: Sheet:
FA4.4

Revision:
Date: June, 2024 Job Number: 1720.01

SHEET NOTES

- SEE FIRE ALARM SITE PLAN SHEET FA2.1 FOR CONTINUATION.
- PROVIDE AND INSTALL 12"SQ X 4" DEEM NEMA 3R PULLCAN.
- PROVIDE AND INSTALL LAMICOID NAMEPLATE ION DEVICE READING "EOL".
- MOUNT HEAT DETECTOR TO STRUCTURE ABOVE CEILING SPACE.
- EXISTING FLEX CONDUIT.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-121901 INC:
REVIEWED FOR
SS FLS ACS
DATE: 4/16/2025



Architecture, Planning, Urban Design
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Tel 831.375.9594

**Robert H. Down
Elementary School
Fire Alarm**

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Pacific Grove, CA. 93950

CABLE LEGEND

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

TYPE B = DENOTES VISUAL NOTIFICATION APPLIANCE CIRCUITS (STROBES) UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #12 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE C = DENOTES AUDIO NOTIFICATION APPLIANCE CIRCUITS (SPEAKERS) UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #14 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

GENERAL NOTES:

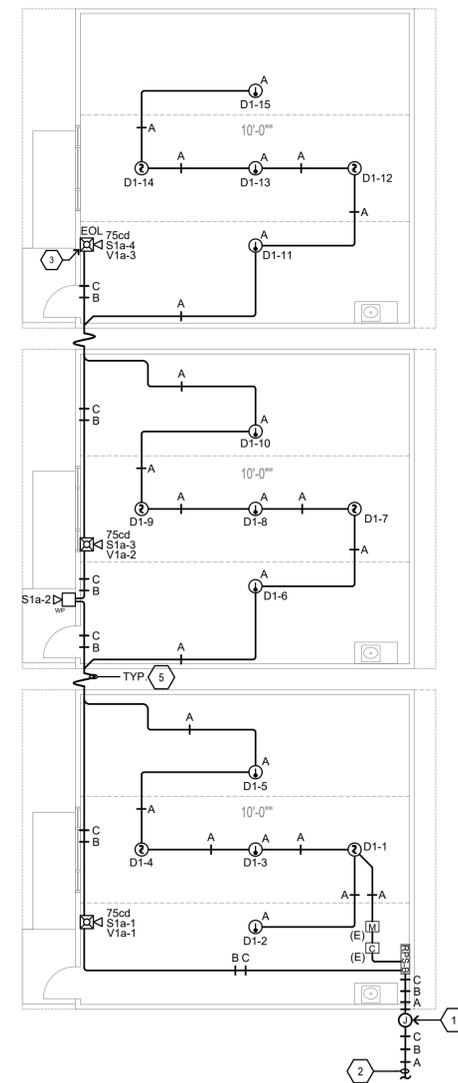
A. SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS, CUT AND PATCH WALLS/CEILINGS FOR CONDUIT ROUTING AS NECESSARY. PAINT/FINISH EXPOSED CONDUITS/BOXES TO MATCH BUILDING FINISH. COORDINATE WITH DISTRICT & ARCHITECT FOR EXACT REQUIREMENTS.

B. ALL INDOOR SPEAKERS/HORNS SHALL BE 0.5 WATTS RATED MINIMUM. ALL OUTDOOR SPEAKERS/HORNS SHALL BE 2 WATTS RATED MINIMUM.

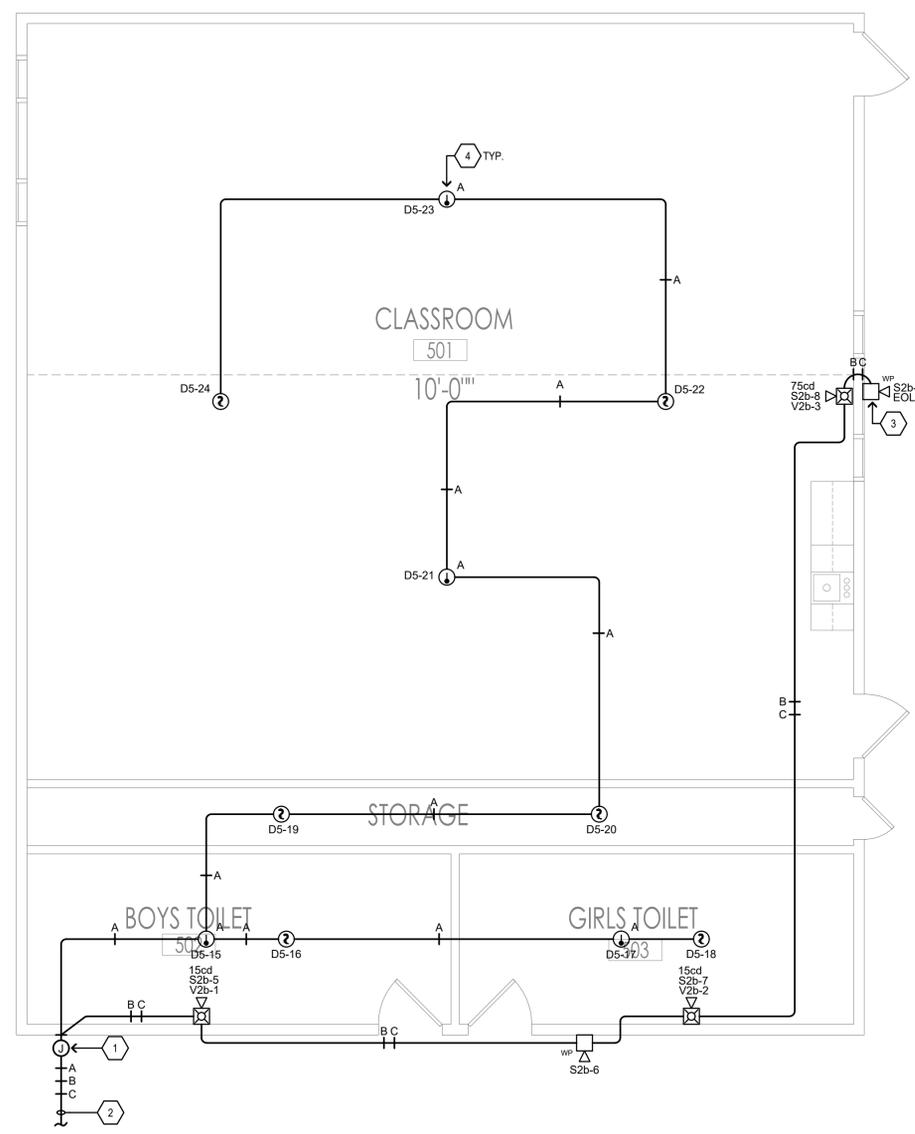
C. CONTRACTOR SHALL PROVIDE AND INSTALL ACCESS PANELS AS NECESSARY FOR ALL DETECTORS LOCATED IN CLOSETS AND ABOVE CEILING SPACES FOR ACCESS TO INITIATION DETECTORS.

D. ALL CEILING MOUNTED FIRE ALARM DEVICES SHALL BE CENTERED ON CEILING TILES WHERE APPLICABLE.

E. AUDIBLE APPLIANCES SHALL PROVIDE 15dBA ABOVE AMBIENT NOISE LEVELS IN ALL OCCUPIED AREAS AND INTELLIGIBILITY WHERE REQUIRED PER CBC 907.5.2.1.1.



1 FIRE ALARM PLAN D1 D2 D3
SCALE: 1/8"=1'-0" NORTH



1 FIRE ALARM PLAN BUILDING C
SCALE: 1/4"=1'-0" NORTH



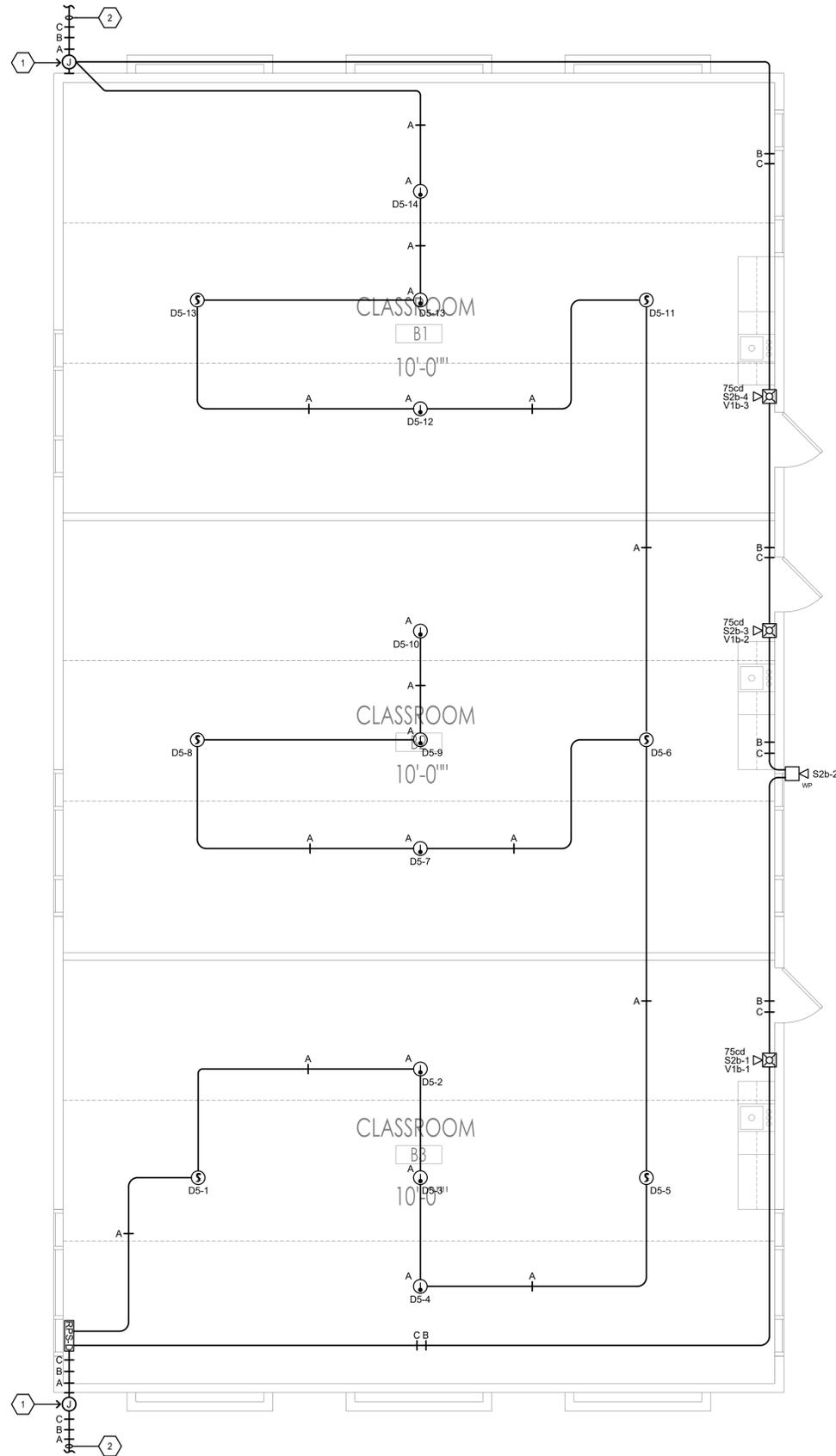
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Drawing Title:
FIRE ALARM PLAN - BUILDINGS C, D1, D2, D3

Scale: Sheet:
FA4.5

Revision:
Date: June, 2024 Job Number: 1720.01



1 FIRE ALARM PLAN BUILDING B
SCALE: 1/4"=1'-0"



SHEET NOTES

- CONTRACTOR SHALL PROVIDE AND INSTALL 18" SQ. X 6" DEEP NEMA 3R PULLCAN.
- SEE FA2.1 FOR CONTINUATION.

CABLE LEGEND

TYPE A = DENOTES INITIATING DETECTION CIRCUITS (SMOKE DETECTOR, HEAT DETECTOR, ETC.) UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #12 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE B = DENOTES VISUAL NOTIFICATION APPLIANCE CIRCUITS (STROBES) UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #14 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE C = DENOTES AUDIO NOTIFICATION APPLIANCE CIRCUITS (SPEAKERS) UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #14 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYP3 D = DENOTES 24VDC CONSTANT POWER CIRCUITS FOR DUCT SMOKE DETECTOR OR BEAM SMOKE DETECTOR; UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #12 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

GENERAL NOTES:

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

B. ALL INDOOR SPEAKERS/HORNS SHALL BE 0.5 WATTS RATED MINIMUM. ALL OUTDOOR SPEAKERS/HORNS SHALL BE 2 WATTS RATED MINIMUM.

C. CONTRACTOR SHALL PROVIDE AND INSTALL ACCESS PANELS AS NECESSARY FOR ALL DETECTORS LOCATED IN CLOSETS AND ABOVE CEILING SPACES FOR ACCESS TO INITIATION DETECTORS.

D. ALL CEILING MOUNTED FIRE ALARM DEVICES SHALL BE CENTERED ON CEILING TILES WHERE APPLICABLE.

E. AUDIBLE APPLIANCES SHALL PROVIDE 15dBA ABOVE AMBIENT NOISE LEVELS IN ALL OCCUPIED AREAS AND INTELLIGIBILITY WHERE REQUIRED PER CBC 907.5.2.1.1.



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SS FLS ACS
DATE: 4/16/2025



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**Robert H. Down
Elementary School
Fire Alarm**

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Drawing Title:
FIRE ALARM PLAN -BUILDING B

Scale: Sheet:
FA4.6

Revision:

Date: June, 2024 Job Number: 1720.01

SHEET NOTES

1. SEE FIRE ALARM SITE PLAN SHEET FA2.1 FOR CONTINUATION.
2. PROVIDE AND INSTALL 12"SQ X 4" DEEM NEMA 3R PULLCAN.
3. PROVIDE AND INSTALL LAMICOID NAMEPLATE ION DEVICE READING "EOL".
4. MOUNT HEAT DETECTOR TO STRUCTURE ABOVE CEILING SPACE.

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Tel 831.375.9594

Robert H. Down Elementary School Fire Alarm

485 Pine Avenue
Pacific Grove, CA, 93950

CABLE LEGEND

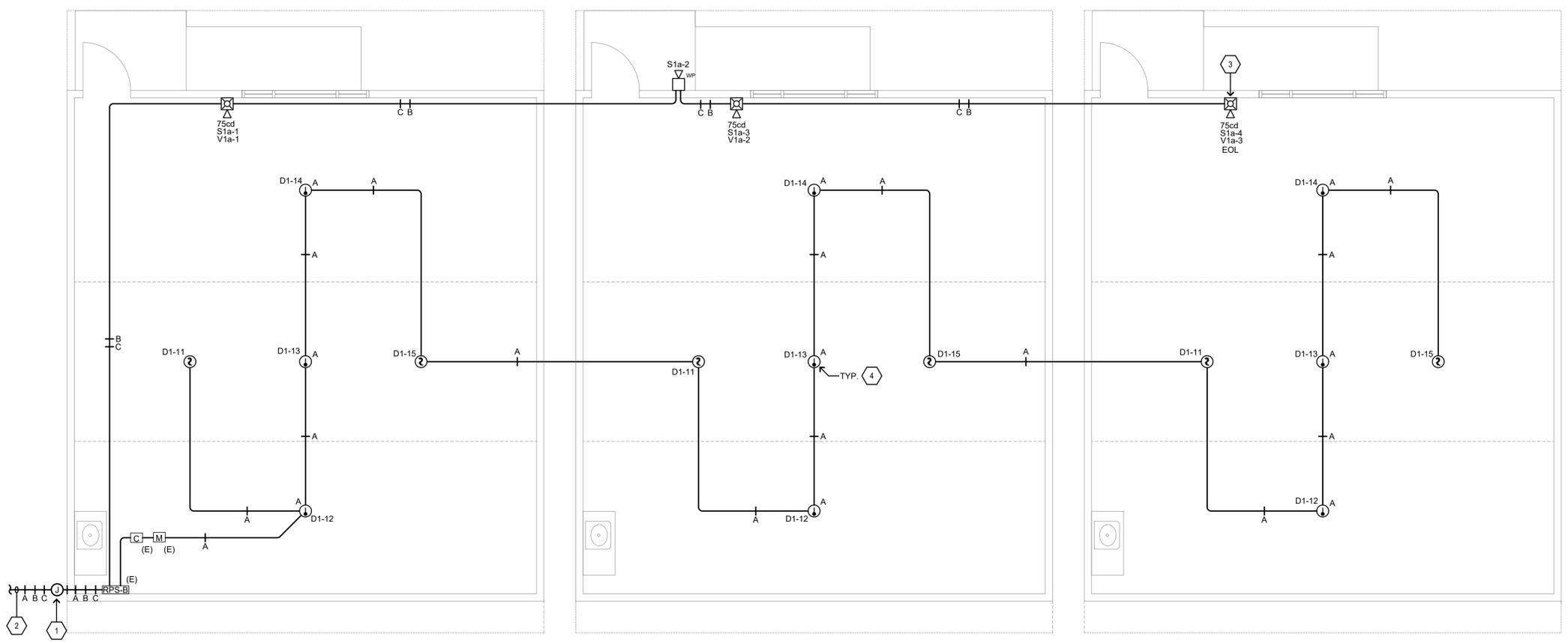
TYPE A = DENOTES INITIATING DETECTION CIRCUITS (SMOKE DETECTOR, HEAT DETECTOR, ETC.) UNLESS OTHERWISE NOTED, PROVIDE (1) #14 TWISTED-UNSHIELDED PAIR. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE B = DENOTES VISUAL NOTIFICATION APPLIANCE CIRCUITS (STROBES) UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #12 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE C = DENOTES AUDIO NOTIFICATION APPLIANCE CIRCUITS (SPEAKERS) UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #14 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

GENERAL NOTES:

- A. SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS, CUT AND PATCH WALLS/CEILINGS FOR CONDUIT ROUTING AS NECESSARY. PAINT/FINISH EXPOSED CONDUITS/BOXES TO MATCH BUILDING FINISH. COORDINATE WITH DISTRICT & ARCHITECT FOR EXACT REQUIREMENTS.
- B. ALL INDOOR SPEAKERS/HORNS SHALL BE 0.5 WATTS RATED MINIMUM. ALL OUTDOOR SPEAKERS/HORNS SHALL BE 2 WATTS RATED MINIMUM.
- C. CONTRACTOR SHALL PROVIDE AND INSTALL ACCESS PANELS AS NECESSARY FOR ALL DETECTORS LOCATED IN CLOSETS AND ABOVE CEILING SPACES FOR ACCESS TO INITIATION DETECTORS.
- D. ALL CEILING MOUNTED FIRE ALARM DEVICES SHALL BE CENTERED ON CEILING TILES WHERE APPLICABLE.
- E. AUDIBLE APPLIANCES SHALL PROVIDE 15dBA ABOVE AMBIENT NOISE LEVELS IN ALL OCCUPIED AREAS AND INTELLIGIBILITY WHERE REQUIRED PER CBC 907.5.2.1.1.

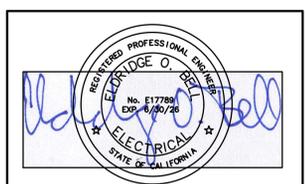


1

FIRE ALARM PLAN BUILDING D1 D2 D3

SCALE: 1/4"=1'-0"

NORTH



AURUM CONSULTING ENGINEERS MONTEREY BAY, INC.

Project No. 24-209.00

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Drawing Title:
FIRE ALARM PLAN - BUILDINGS D1, D2, D3

Scale: _____ Sheet: _____

FA4.7

Revision: _____

Date: June, 2024 Job Number: 1720.01

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H | G
H | B

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Robert H. Down
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Fire Alarm

485 Pine Avenue
Pacific Grove, CA. 93950

REGISTERED PROFESSIONAL ENGINEER
EDWARD O. BELL
No. E17789
Exp. 4/30/25
ELECTRICAL
STATE OF CALIFORNIA

AURUM CONSULTING ENGINEERS MONTEREY BAY, INC.
Project No. 24-209.00
404 W. Franklin St. • Suite 100 • Monterey, CA 93940
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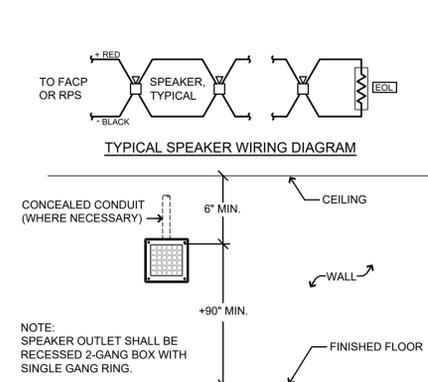
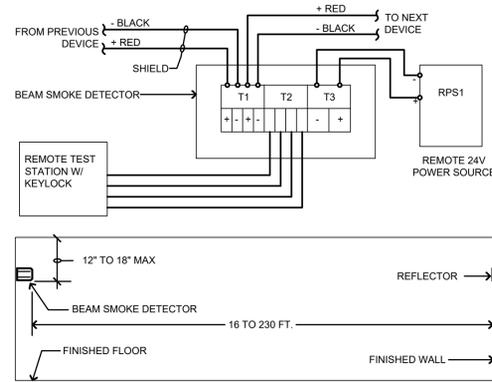
Drawing Title:
FIRE ALARM DETAILS

Scale: Sheet:

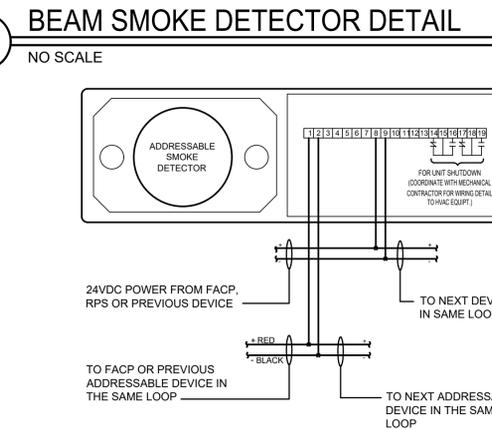
FA5.1

Revision:

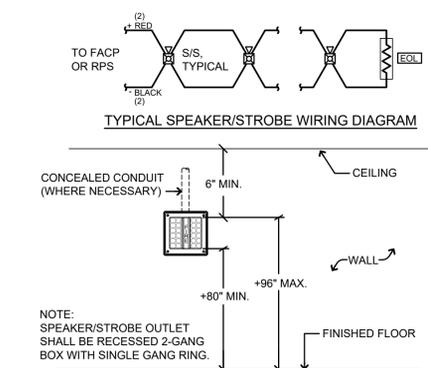
Date: June, 2024 Job Number: 1720.01



4 SPEAKER INSTALLATION DETAIL
NO SCALE

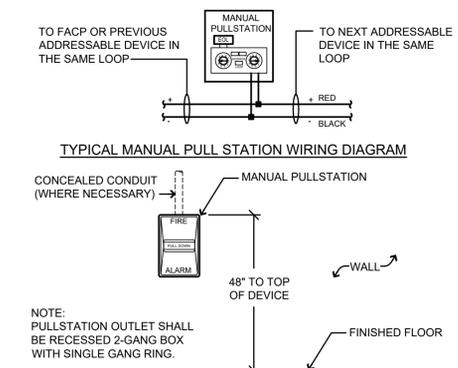


8 BEAM SMOKE DETECTOR DETAIL
NO SCALE

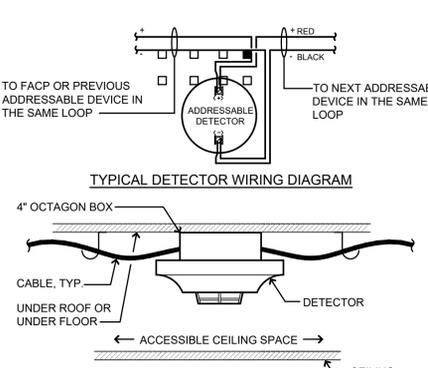


3 SPEAKER/STROBE INSTALLATION DETAIL
NO SCALE

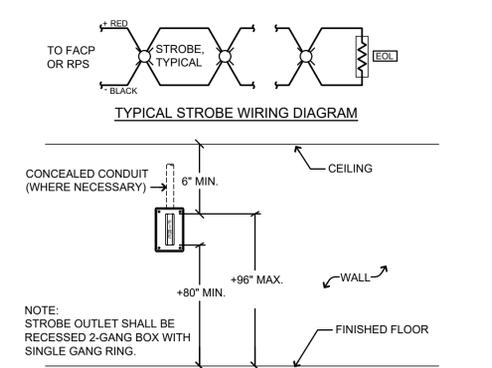
7 DUCT DETECTOR WIRING DIAGRAM
NO SCALE



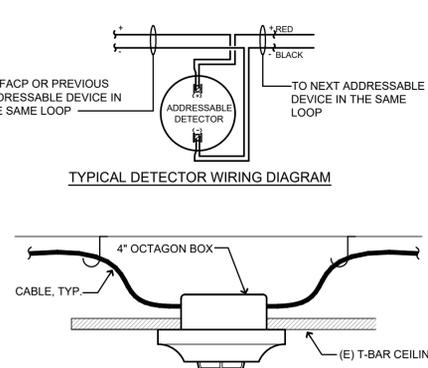
6 PULL STATION MOUNTING DETAIL
NO SCALE



2 DETECTOR MOUNTING DETAIL
NO SCALE (ABOVE CEILING)



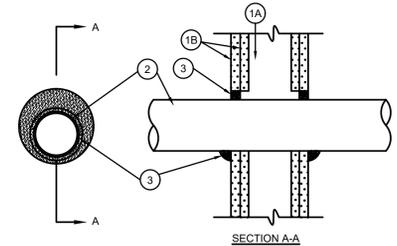
5 STROBE INSTALLATION DETAIL
NO SCALE



1 DETECTOR MOUNTING DETAIL
NO SCALE

SEE FLOOR PLAN DRAWINGS FOR RATED WALL LOCATIONS

U.L. System No. W-L-1049
F Rating-1 and 2 Hr (See Item 1B)
T Rating-0 HR
L Rating At Ambient-Less Than 1 CFM/sq ft
L Rating At 400F-Less Than 1 CFM/sq ft



1. Wall Assembly-The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs-Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 3-5/8 in. wide and spaced max 24 in. OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. wider and 4 to 6 in. higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. clearance is present between the penetrating item and the framing on all four sides.

B. Wallboard, Gypsum*-5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 25-3/4 in. for steel stud walls. Max diam of opening is 14-1/2 in. for wood stud walls. The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. Through Penetrant-One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min 0 in. (point contact) to max 1-3/4 in. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

- A. Steel Pipe-Nom 24 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
- B. Iron Pipe-Nom 24 in. diam (or smaller) cast or ductile iron pipe.
- C. Conduit-Nom 4 in. diam (or smaller) steel electrical metallic tubing, nom 6 in. diam (or smaller) steel conduit or nom 1 in. diam (or smaller) flexible steel conduit.
- D. Copper Tubing-Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
- E. Copper Pipe-Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.

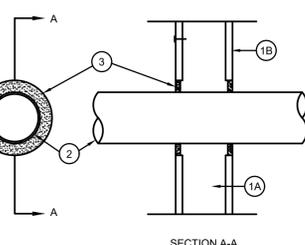
3. Fill, Void or Cavity Material*-Sealant-Min 5/8 in. thickness of fill material applied within annulus, flush with both surfaces of wall. At the point contact location between through penetrant and gypsum wallboard, a min 3/8 in. diam bead of fill material shall be applied at the gypsum wallboard/through penetrant interface on both surfaces of wall.

*Specified Technologies Inc.-SpecSeal 100, 101, 102 or 105 Sealant
*Bearing the UL Classification Marking

10 2-HR FIRE-RATED WALL PENETRATION
NO SCALE

SEE FLOOR PLAN DRAWINGS FOR RATED WALL LOCATIONS

U.L. System No. W-L-1062
F Rating-1 HR
T Rating-0 HR
L Rating At Ambient-Less Than 1 CFM/sq ft
L Rating At 400F-Less Than 1 CFM/sq ft



1. Wall Assembly-The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs-Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 3(Q5)W(A8)S in. wide and spaced max 24 in. OC.

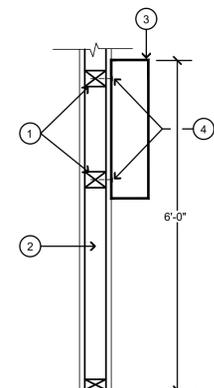
B. Wallboard Gypsum*-One Layer of nom (Q5)W(A8)S in. thick gypsum wallboard as specified in the individual Wall and Partition Design. Max diam of opening is 4(Q3)W(A4)S in.

2. Through Penetrants-One metallic conduit to be installed within the firestop system. The space between the conduit and periphery of opening shall be a min (Q1)W(A4)S in. to a max (Q3)W(A8)S in. Conduit to be rigidly supported on both sides of wall assembly. A nominal 4 in. diameter (or smaller) electrical metallic tubing or steel conduit may be used.

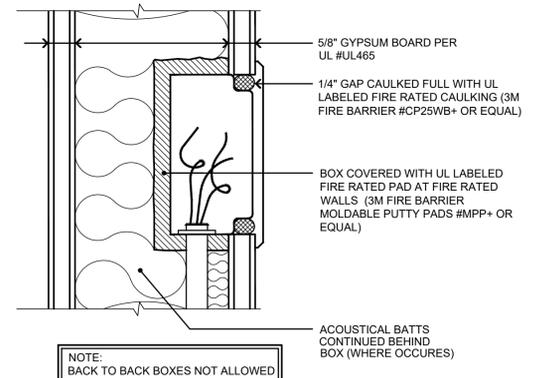
3. Fill, Void or Cavity Material*-Caulk-Min 1(Q1)W(A2)S in. thickness of fill material applied within the annulus, flush with both surfaces of wall.

General Electric Co.-Pensil 100 Caulk.
Specified Technologies Inc.-Pensil 100 Sealant and Pensil 300 Sealant.
*Bearing the UL Classification Marking

9 1-HR FIRE-RATED WALL PENETRATION
NO SCALE



- DETAIL NOTES:
1. 4" x 4" BLOCKING BETWEEN STUDS WITH SIMPSON STRONG-TIE FRAMING CLIP A35. TOP AND BOTTOM EACH END
 2. WALL STUDS
 3. PANEL
 4. 1/2" DIA. LAG SCREW INTO BLOCKING MIN. 2 1/2" PENETRATION; PER-DRILL TO AVOID SPLITTING; TYP. (4) PER PANEL AT CORNERS



11 OUTLET BOX FIRE CAULKING (TYP.)
NO SCALE