

# LODI UNIFIED SCHOOL DISTRICT LODI HIGH SCHOOL CAMPUS WIDE FIRE ALARM UPGRADE

DSA APP #: 02-118482 SEPTEMBER 23, 2020

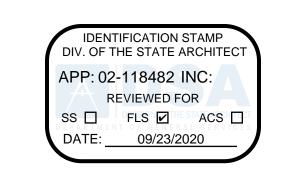
**OWNER** 

LODI USD 1305 E VINE STREET LODI, CA 95240 CONTACT: VICKIE BRUM 209-331-7225 P 209-331-7229 F **ARCHITECT** 

PBK ARCHITECTS
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2520 VENTURE OAKS WAY
SUITE 440
SACRAMENTO, CA 95833
CONTACT: GARY GERY
916-682-9494 P
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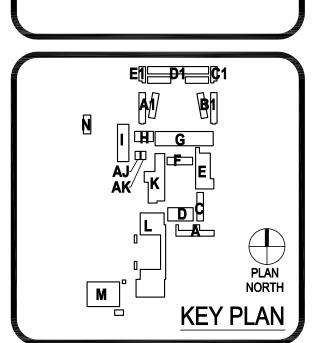
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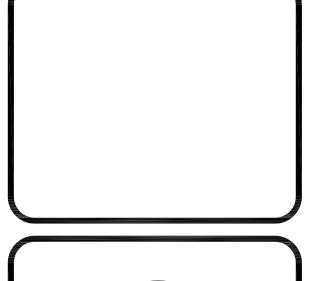
LP CONSULTING ENGINEERS, INC. 1209 PLEASANT GROVE BIVD CONTACT: JAMES LIM ROSEVILLE, CA 95678 916-771-0778 P





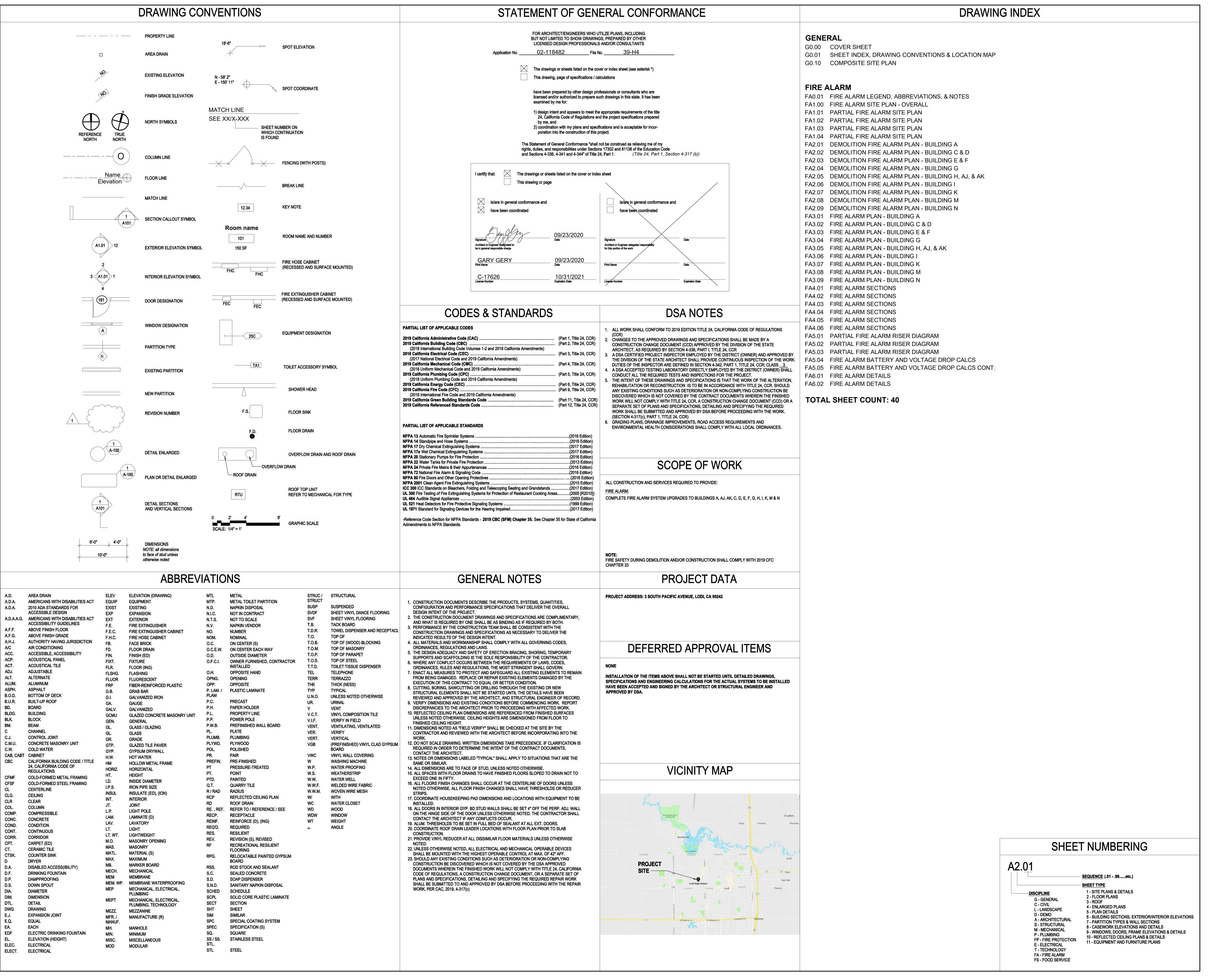
ARCHITECT	PBK Architects,
	SACRAMENTO hture Oaks Way, Suite 440 cramento, CA 95833 916-682-9494 P 916-682-0990 F
MEPT ENGINEER	LP Consulting Engineer
	Pleasant Grove Blvd. oseville, CA 95678 916-771-0778 P
ш	
ALARM UPGRADE	PTN: 68585-212
LODI HIGH SCHOOL CAMPUS WIDE FIRE	3 South Pacific Avenue Lodi, CA 95242 DSA App. #: 02-118482 CONSTRUCTION DOCUMENTS







30<sub>-</sub>00



PBK

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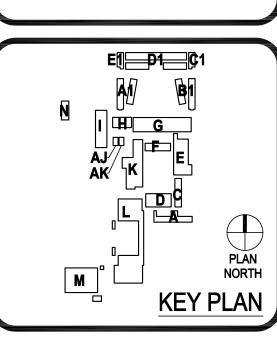
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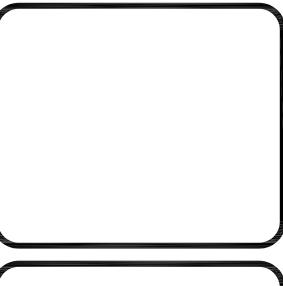
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IRM UPGRADE

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CAN South Lodi, C. Lodi, C. DSA Ap CONST





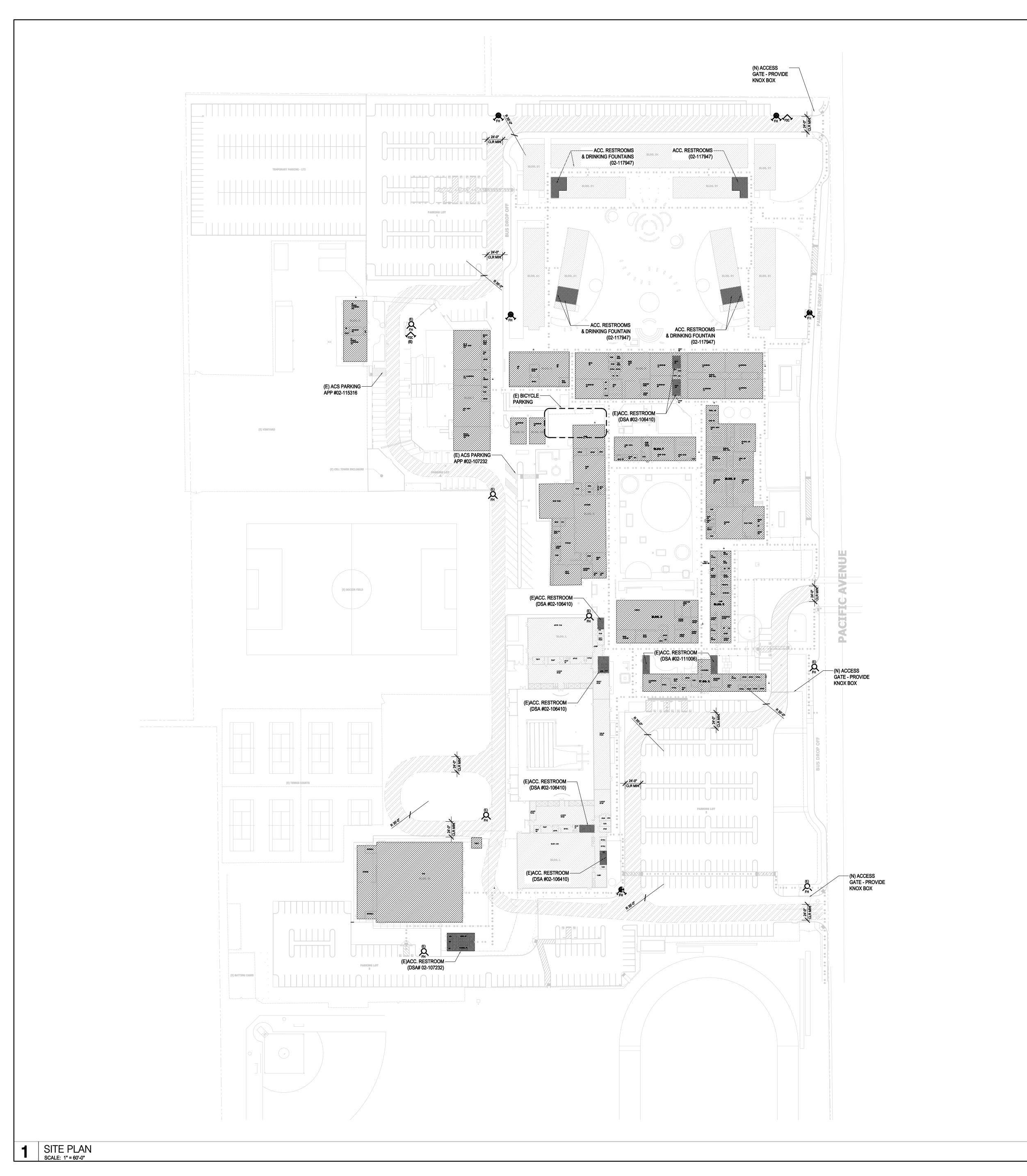


LODI	CLIENT UNIFIED SCHOOL D	ISTRIC
	PROJECT NUMBER 19465	1011110
DATE	SEPTEMBER 23, 20	020
REVISI	IONS	
#	DESCRIPTION	DAT
C	ONSTRUCTION DOCUM	ENTS
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	DRAWING	

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**CONVENTIONS &** 

**LOCATION MAP** 



PATH OF TRAVEL NOTES ACCESS SITE PLAN LEGEND

ACCESSIBLE PATH OF TRAVEL (P.O.T.):

ADMINISTRATION C ADMINISTRATION

H CLASSROOM BUILDING

K CAFETERIA & MUSIC

A1 CLASSROOM BUILDING

B1 CLASSROOM BUILDING

C1/D1/E1 CLASSROOM BUILDING

M GYM

E CLASSROOM BUILDING - THEATER/S F CLASSROOM BUILDING - HOME ECO G CLASSROOM BUILDING - SCIENCE

I CLASSROOM BUILDING - SHOPS

L GYMNASIUM & CLASSROOMS

N CLASSROOM BUILDING - AG SCIENCE

AJ CLASSROOM BUILDING - RELOCATABLE

AK CLASSROOM BUILDING - RELOCATABLE

THE ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAXIMUM AND AT LEAST 48" IN WITH.

SURFACE IS STABLE, FIRM AND SLIP RESISTANT, CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED.

ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL ABOVE 27" AND LESS THAN 80".

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE P.O.T. INDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS. COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS.

**DURING CONSTRUCTION**, IF P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THE ITEMS SHALL BE BROUGHT INTO COMPLIANT WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

	PROPERTY LINE
	(E) ACCESSIBLE PATH OF TRAVE
	(E) BUILDING
	(E) BUILDING NOT IN SCOPE
	(E) ACCESSIBLE TOILET ROOM
	(E) FIRE ACCESS LANE
, , , , , , , , , , , , , , , , , , ,	FIRE ALARM CONTROL ROOM / FIRE SPRINKLER RISER LOCATIO
Œ,	(E) FIRE HYDRANT

FIRE DEPARTMENT CONNECTION

No 02-13335, 02-51357, 02-106410

No 02-107232

Yes 02-111006

Yes 02-117947 Yes 02-117947

Yes 02-117947

No 02-44570, 02-106410

No 02-44570, 02-106410

	E	XISTIN(	G BUILDI	NG INDE	X	
	STORIES	BUILDING AREA	OCCUPANCY	CONSTRUCTION TYPE	FIRE SPRINKLERS	DSA#
	1	6,226	E	V-B	No	02-13335, 02-41543, 02-51357, 02-106410, 02-117947
	1	4,530	E	V-B	No	02-13335, 02-51357, 02-106410
	1	8,060	E	V-B	No	02-13335, 02-51357, 02-106410
SCIENCE	1	4520/9883	A2.1/E	V-B	No	02-13335, 02-51357, 02-106410
ON	1	4,381	E	V-B	No	02-13335, 02-51357, 02-51777, 02-106410
	1	19,960	E	III-B	No	02-13335, 02-23743, 02-51357, 02-51777, 02-106410
	1	5,784	E	V-B	No	02-37425, 02-51357, 02-106410
	1	11,100	E	V-B	No	02-38317, 02-51357, 02-106410
	1	17,624	A-2.1/B	V-B	No	02-13335, 02-23743, 02-40568, 02-51357, 02-107232, 02-106410

1. ALL PROJECT SUMMARY DATA TAKEN FROM PREVIOUSLY APPROVED (DSA) PROJECTS U.N.O. W/\*

15,199

3,312

960

17,752

17,752

56,750

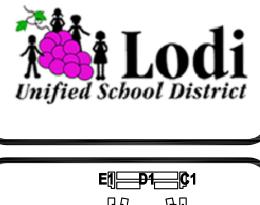
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 02-118482 INC: REVIEWED FOR SS ☐ FLS ☑ ACS ☐

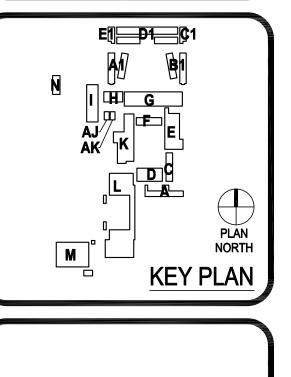


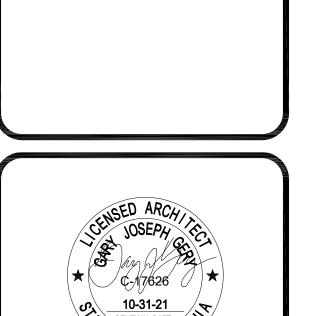
ARCHITECT SACRAMENTO 2520 Venture Oaks Way, Suite 440 Sacramento, CA 95833 916-682-9494 P 916-682-0990 F MEPT ENGINEER LP Consulting Engineers, Inc 1209 Pleasant Grove Blvd.

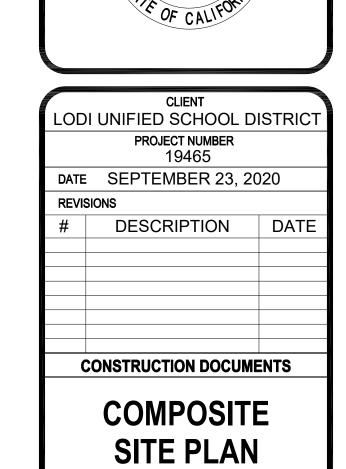
Roseville, CA 95678 916-771-0778 P

H SCHOOL WIDE FIRE CAM









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 2019 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30:

ALL PERMANENT EQUIPMENT AND COMPONENTS. 2. TEMPORARY, MOVABLE, OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE

3. TEMPORARY, MOVABLE, OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR

ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

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

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A 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.

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

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

MP MD PP E OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD

□ □ □ PRE-APPROVAL (OPM#) #\_\_\_\_\_.

THE INTENT OF THESE DRAWINGS AND/OR SPECIFICATIONS DESCRIBE A COMPLETE, FUNCTIONING FIRE ALARM SYSTEM (INLCUDING VOICE EVACUATION PER SB575) WITH DEVICES, WIRING AND FIRE ALARM CONTROL PANEL TO MEET THE REQUIREMENTS OF NFPA 72 AND 2019 CALIFORNIAN FIRE CODE AND APPLICABLE LOCAL FIRE MARSHALL REGULATIONS AND REQUIREMENTS.

LOCATIONS OF EXISTING EQUIPMENT AND DEVICES SHOWN ON THESE PLANS ARE BASED ON AVAILABLE AS-BUILT PLANS AND LIMITED SITE SURVEYS. CONTRACTOR SHALL THOROUGHLY INSPECT THE EXISTING SYSTEM AND SITE CONDITIONS BEFORE BID. ADVISE THE SCHOOL'S REPRESENTATIVE OF ALL CONDITIONS REQUIRING IMMEDIATE ATTENTION OR MIGHT CAUSE DIFFICULTIES THAT ARE NOT ADDRESSED, OR INFERRED TO, IN THE CONTRACT DRAWINGS AND SPECIFICATIONS PRIOR TO NEW CONSTRUCTION AND THE

CONTRACTOR SHALL SUBMIT ANY ALTERATIONS OF THE APPROVED CONSTRUCTION DOCUMENTS TO THE SPECIAL INSPECTOR AND DSA FOR NEW APPROVALS. START INSTALLATION OF THE SYSTEM AFTER DETAILED PLANS, SPECIFICATIONS, NEW SHOP DRAWINGS AND SUBMITTALS HAS BEEN APPROVED BY DSA. CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR ANY DELAY.

COMMENCEMENT OF THE GUARANTEE PERIOD.

FIRE WATCH IN CONFORMANCE WITH THE CALIFORNIA FIRE CODE SHALL BE PROVIDED AT THE DIRECTION OF THE CONTRACTOR FOR EVERY OFF-LINE BUILDING. THE SCHOOL SHALL ASSIST WITH FIRE WATCH ACTIVITIES DURING SCHOOL HOURS AND WHENEVER THE CAMPUS IS OCCUPIED BY STUDENTS, TEACHERS AND STAFF. THE CONTRACTOR SHALL PROVIDE ALL FIRE WATCH ACTIVITIES AFTER SCHOOL HOURS AND WHENEVER THE CAMPUS IS NOT OCCUPIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AND MAINTAINING ALL FIRE WATCH LOGS.

REQUEST FOR ADDITIONAL COSTS ASSOCIATED WITH RE-USE OF ANY EXISTING SYSTEM COMPONENT, INCLUDING CONDUITS, BOXES, CONTROL PANELS, ETC. WILL NOT BE CONSIDERED

NO KNOWN EXISTING CEILING OR ATTIC SPACE IN ROOMS OR AREA WITH HARD CEILING. IF CEILING OR ATTIC SPACE OCCUR DURING FIELD CONSTRUCTION THAT REQUIRE ADDING DETECTORS ABOVE THE CEILING OR ATTICE SPACE, PROVIDE A CONSTRUCTION CHANGE DOCUMENT, OR A SEPARATE SHEET OF PLANS SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.

THE FIRE ALARM SYSTEM SHALL CONFORM TO THE CALIFORNIA FIRE CODE, ARTICLE 10, CBC 305.9 AND CALIFORNIA ELECTRICAL CODE, ARTICLE 760.

8. FIRE ALARM SYSTEM SHALL TRANSMIT ALARM, SUPERVISORY AND TROUBLE SIGNAL TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72 AND CBC 907.6.5.3.

CONTRACTOR SHALL PROVIDE A COMPLETE AND FUNCTIONAL CODE COMPLIANT SYSTEM WITH ALL REQUIRED HARDWARE, DEVICES, PROGRAMMING AND POINT/DEVICE DESCRIPTION SCHEDULES.

10. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2.

11. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.

12. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY THE CALIFORNIA STATE FIRE MARSHAL, AND THE LOCAL FIRE MARSHAL.

13. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY AND SPECIAL INSPECTOR. THE SCHOOL SHALL NOT BE IN OPERATION UNTIL THE IOR AND THE LOCAL FIRE MARSHAL HAS VERIFIED AND/OR SIGNED OFF ON OPERATIONAL CAPACITY OF THE FIRE ALARM SYSTEM.

14. ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND /OR TESTING.

15. CONTRACTOR SHALL SUBMIT THE SPECIAL INSPECTOR NFPA CERTIFICATE OF COMPLIANCE FORM TO THE SCHOOL REPRESENTATIVE FOR SUBMISSION TO THE FIRE DEPARTMENT.

16. BEFORE REQUESTING FINAL APPROVAL OF THE INSTALLATION, THE SYSTEM INSTALLING CONTRACTOR SHALL FURNISH A WRITTEN STATEMENT TO THE INSPECTOR OF RECORD TO THE EFFECT THAT THE SYSTEM HAS BEEN INSTALLED AND COMPLETELY TESTED IN ACCORDANCE WITH THE 2016 NFPA 72, SECTION 1-6.1.2

AND 7-1.6.217. CONTRACTOR SHALL PROVIDE INTELLIGIBILITY TESTING USING INTELLIGIBILITY METERS APPROVED FOR SUCH USE. REFERENCE NFPA 72 CHAPTER 24. AN STI SCORE OF 7.0 IS A MINIMUM REQUIREMENT. CONTRACTOR

18. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.

SHALL IDENTIFY ALL ACOUSTICALLY DISTINGUISHABLE SPACES (ADS) ON CONTRACTOR SHOP DRAWINGS.

19. PROVIDE FIRE ALARM AUDIBLE SOUND LEVEL AT LEAST 15 DBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL IN ALL OCCUPIED AREA, BUT NOT LESS THAN 75 DBA AT 10 FEET OR MORE THAN 120 DBA IN TOTAL, THROUGHOUT. SYNCHRONIZED TEMPORAL CODE 3 SOUND. (NFPA 72, SEC. 6-3.1.2)

20. WALL MOUNTED VISIBLE NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.

21. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THEN 6" TO A HORIZONTAL STRUCTURE.

22. A FLASHING VISUAL WARNING DEVICE HAVING A FREQUENCY OF NOT MORE THAN 60 FLASHES PER MINUTE. [TWO (2) FLASHES OR LESS THAN ONE (1) FLASH PER SECOND] SHALL BE INSTALLED TO WARN THE HEARING-IMPAIRED AS SHOWN ON THE DRAWINGS. (SEC. 2-7204) VISIBLE DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.

23. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM, DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.

24. LOCATE SMOKE AND HEAT DETECTORS AT LEAST ONE FOOT AWAY FROM FLUORESCENT LIGHT FIXTURES.

25. CONTRACTOR SHALL AFFIX TO EACH FIELD DEVICE A DEVICE LABEL. DEVICE LABEL SHALL BE ARRANGED

FOLLOWING DETAIL "FIRE ALARM CIRCUIT IDENTIFIERS". INITIATION DEVICES CONNECTED TO EQUIPMENT BY OTHERS SHALL HAVE A LABEL AFFIXED TO MODULE INDICATING THE EQUIPMENT CONNECTED.

26. ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM SECTION.

27. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.

28. PER CEC STANDARDS. ALL WIRING IS TO BE PULLED THROUGH FACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. ALL BOXES TO BE SIZED PER CEC.

29. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANOR AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.

30. NO SPLICES SHALL BE ALLOWED FOR FIRE ALARM SYSTEM UNDERGROUND CABLES.

32. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED 20 LBS. WITHOUT SPECIAL MOUNTING

31. NEW FIRE ALARM WIRING SHALL NOT BE INSTALLED IN ANY RACEWAY WITH WIRING IN EXCESS OF 24

33. ALL FIRE ALARM EQUIPMENT BRANCH CIRCUITS SHALL BE DEDICATED AS PER NFPA 72, 10.6.5.1 AND ITS LOCATION BE CLEARLY LABELED AT THE FIRE ALARM CONTROL PANEL.

34. ALL FIRE ALARM EQUIPMENT POWER SOURCE CIRCUITS SHALL BE IDENTIFIED AT THE POWER SOURCE PER NFPA 72, 10.6.5.2. USING A RED CLEARLY MARKED DISCONNECT WITH LOCK-ON CAPABILITY. COORDINATE WITH ELECTRICAL.

35. MICROPHONES ASSOCIATED WITH EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVAC) SHALL BE ACCESSIBLE FOR USE, INSTALLED IN COMPLIANCE WITH CBC SECTIONS 11B-305 AND 11B-308.

36. WHERE ACCESSIBILITY IS NOT AVAILABLE TO THE NEW FIRE ALARM DEVICES LOCATED ABOVE THE CEILING/ATTIC SPACES, PROVIDE ACCESS PANELS TO THESE DEVICES, COORDINATE PRIOR TO THE EXECUTION OF WORK.

37. THE CONTRACTOR SHALL PROVIDE AS-BUILT SHOP DRAWINGS INDICATING CIRCUITING OF ALL DETECTOR AS AND OTHER DEVICES IN ALL THE BUILDINGS OF THIS PROJECT. AS-BUILT DRAWINGS SHALL BE STORED IN FIRE ALARM DOCUMENT CABINET INSTALLED ADJACENT TO FIRE ALARM CONTROL PANEL OR LOCATION APPROVED BY AUTHORITY HAVING JURISDICTION.

38. PROVIDE DOCUMENTATION CABINET TO BE INSTALLED PROXIMAL TO FACP (NFPA 72, 7.7.2.1). ALL RECORD DOCUMENTATION SHALL BE STORED IN THE DOCUMENTATION CABINET (NFPA 72 7.7.2.2). THE DOCUMENTATION CABINET TO BE PROMINENTLY LABELED "SYSTEM RECORD DOCUMENTS" (NFPA 72

SYM	QTY.	MODEL #	MFG	DESCRIPTION	CSFM
FACP	1	E3 SERIES	GAMEWELL-FCI	(N)FIRE ALARM CONTROL PANEL WITH (N) MASS NOTIFICATION SYSTEM	7165-1703:01:
	4	FML-E3	GAMEWELL-FCI	FIBER LOOP MODULES	7165-1703:01
FAMP	3	AM-50	GAMEWELL-FCI	(N) 50 WATT VOICE EVAC AMPLIFIER @ 70.7V (INSIDE E3-INX CABINET)	7165-1703:01
	6	FML-E3	GAMEWELL-FCI	FIBER LOOP MODULES	7165-1703:01
LOC	1	E3 SERIES LOC	GAMEWELL-FCI	(N) LOCAL OPERATING CONSOLE	7165-1703:01
RA	1	LCD-E3	GAMEWELL-FCI	REMOTE ANNUNCIATOR PANEL	7165-1703:01
FAPS	14	HPF24S6	GAMEWELL-FCI	NAC REMOTE BATTERY SUPPLY	7315-1637:01
12	0	MCS- ACCLIMATE2F	GAMEWELL-FCI	MULTI-CRITEERIA DETECTOR	7272-1703:01
(1)	0	MCS-COF	GAMEWELL-FCI	CO DETECTOR	7275-1703:01
<b>@</b> CO	0	B200S	GAMEWELL-FCI	SOUNDER BASE	7300-1653:02
0	311	ASD-PL3	GAMEWELL-FCI	PHOTOELECTRIC SMOKE DETECTOR	7272-1703:05
<b>①</b>	25	ATD-L3	GAMEWELL-FCI	THERMAL HEAT DETECTOR (135°F FIXED)	7270-1703:05
	191	ATD-L3H	GAMEWELL-FCI	THERMAL HEAT DETECTOR (190°F RATE OF RISE) ABOVE CEILING	7270-1703:05
$\mathbf{O}_{\!A}$		RA100Z	GAMEWELL-FCI	REMOTE LED BELOW CEILING	7270-1703:05
0 <sub>T</sub> O <sub>R</sub>	3	OSI-RI-GW	GAMEWELL-FCI	ADDRESSABLE SINGLE-ENDED BEAM SMOKE SENSOR	7260-1703:05
里	23	MS-7	GAMEWELL-FCI	ADDRESSABLE MANUAL PULL STATION	7150-1703:01
ММ	0	AMM-2F	GAMEWELL-FCI	ADDRESSABLE MONITOR MODULE	7300-1703:01
СМ	1	AOM-2RF	GAMEWELL-FCI	ADDRESSABLE OUTPUT RELAY CONTROL MODULE	7300-1703:01
FAD	1	FAD	SPACE AGE	FIRE ALARM DOCUMENT CABINET	7300-0553:01
Ø	40	SRL	SYSTEM SENSOR	STROBE (15cd, 30cd, 75cd, 110cd) WALL MOUNTED	7125-1653:05
<b>∑</b>	136	SPSRL	SYSTEM SENSOR	SPEAKER-STROBE (15cd, 30cd, 75cd, 110cd) WALL MOUNTED	7320-1653:05
<b>∑</b> C	4	SPSCRL	SYSTEM SENSOR	SPEAKER-STROBE (15cd, 30cd, 75cd, 110cd) CEILING MOUNTED	7320-1653:05
<b>▼</b> WP	19	SPRK	SYSTEM SENSOR	SPEAKER (WP=WEATHERPROOF) WALL MOUNTED	7320-1653:02

"C" ADJACENT TO NOTIFICATION DEVICES INDICATE CEILING MOUNTED DEVICE. "15" ADJACENT TO NOTIFICATION DEVICES IS THE CANDELA RATING IS LISTED. OPTION AVAILABLE ARE 15CD, 30CD, 75CD, 110CD.

REFER TO ELECTRICAL PLANS FOR DEDICATED 120V, 1Ø BRANCH CIRCUITS. FIRE ALARM SYSTEM POWER SOURCE BRANCH CIRCUITS SHALL BE DEDICATED AND INSTALLED PER NFPA 72, 10.6.5.2. PROVIDE RED MARKED DISCONNECT WITH LOCK-ON CAPABILITY. COORDINATE BACKBOX LOCATION WITH ELECTRICAL.

FIRE ALARM CABLE SCHEDULE				
TYPE	DESCRIPTION	USE		
CABLES INSTALLED IN CONDUIT (MINIMUM 1/2" C.)				
Α	WEST PENN D990 (2#16 SOL, UTP, FPL)	SLC (ADD	RESSABLE LOOP) INTERIOR	
ΑE	WEST PENN AQ225 (2#16 STR, UTP, FPL)	SLC (ADD	RESSABLE LOOP) EXTERIOR	
М	ESSEX 2#14 THHN/THWN SOL	IDC (INITIA	TING DEVICE CIRCUIT) - INTERIOR/EXTERIOR	
R	WEST PENN 990 (2#16 SOL, UTP, FPL) ESSEX 2#14 THHN/THWN SOL	ANNUNCIATOR INTERIOR		
В	SUPERIOR ESSEX 2#12 THHN/THWN	NAC (NOTIFICATION APPLIANCE CIRCUIT) INTERIOR		
С	WEST PENN 975 (2#18 SOL, STP)	AUDIO SPEAKER CABLE - INTERIOR		
CE	WEST PENN AQ294 (2#16 STR, STP, FPL)	AUDIO SPEAKER CABLE – EXTERIOR		
F	WEST PENN WP9B045T	FIBER OPTIC 6-STRAND - INTERIOR/EXTERIOR		
DE	WEST PENN AQ225 (2#16 SOL, UTP, FPL)	NETWORK COMMUNICATION CABLE - EXTERIOR		
CABLE DESCRIPTION ABBREVIATIONS				
ABBREV.	DEFINITION	ABBREV.		
FPL	FIRE ALARM POWER-LIMITED	STR STRANDED CONDUCTOR		
FPLP	FIRE ALARM POWER-LIMITED, PLENUM	STP	SHIELDED TWISTED PAIR	
FPLR	FIRE ALARM POWER-LIMITED, RISER	US	UNSHIELDED CABLE	
OS	OVERALL SHIELDED CABLE	UTP	UNSHIELDED TWISTED PAIR	
SOL	SOLID CONDUCTOR			

#### FIRE ALARM GENERAL DEMO NOTES

 ALL EXISTING FIRE ALARM EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., WHERE SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DOCUMENTS AND LIMITED SITE SURVEY AND ARE SHOWN FOR CLARITY. IT SHALL BE REGARDED AS AN APPROXIMATION ONLY, CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. PRIOR TO SUBMITTING BID AND BEFORE START OF ANY ELECTRICAL WORK, CONTRACTOR SHALL VERIFY ON-SITE ALL EXISTING LOCATIONS AND CONDITIONS TO ASCERTAIN ALL WORK REQUIRED.

2.EXISTING FIRE ALARM SYSTEM SHALL REMAIN ACTIVE UNTIL CONSTRUCTION IS COMPLETED. CAUSE AS LITTLE INTERFERENCE OR INTERRUPTION OF EXISTING FIRE ALARM SYSTEMS AND/OR OTHER EXISTING FACILITY'S SYSTEMS AND SERVICES AS POSSIBLE. CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AT LEAST 72 HOURS TO SCHEDULE ALL NECESSARY SHUTDOWNS. SHUTDOWN WORK SHALL BE PERFORMED AFTER THE NORMAL OPERATION HOURS OF THE FACILITY, IF SO DIRECTED BY THE OWNER'S REPRESENTATIVE.

3.FIRE WATCH IN CONFORMANCE WITH THE CALIFORNIA FIRE CODE SHALL BE PROVIDED AT THE DIRECTION OF THE CONTRACTOR FOR EVERY OFF-LINE BUILDING. THE SCHOOL SHALL ASSIST WITH FIRE WATCH ACTIVITIES DURING SCHOOL HOURS AND WHENEVER THE CAMPUS IS OCCUPIED BY STUDENTS, TEACHERS AND STAFF. THE CONTRACTOR SHALL PROVIDE ALL FIRE WATCH ACTIVITIES AFTER SCHOOL HOURS AND WHENEVER THE CAMPUS IS NOT OCCUPIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AND MAINTAINING ALL FIRE WATCH LOGS.

4.ALL REMOVED AND/OR DEMOLISHED ELECTRICAL MATERIALS AND EQUIPMENT TO BE ACCOMPLISHED UNDER THIS CONTRACT, WHICH IN THE OPINION OF THE OWNER'S REPRESENTATIVE ARE DEEM SALVAGEABLE, SHALL REMAIN THE PROPERTY OF THE OWNER. ALL FIRE ALARM MATERIAL AND EQUIPMENT CONSIDERED NOT SALVAGEABLE SHALL BE REMOVED FROM THE SITE AND DISPOSED BY THE CONTRACTOR ACCORDINGLY.

5.WHERE REMOVAL OF AN EXISTING SYSTEM'S DEVICE WILL RESULT IN LOSS OF CIRCUIT CONTINUITY, THE ISOLATED PORTIONS OF THE CIRCUIT SHALL BE RECONNECTED TO PROVIDE SERVICE TO ALL REMAINING DEVICES. IF SITE CONDITIONS MAKE RECONNECTION IMPOSSIBLE, CONNECTION SHALL BE MADE FROM AN ADJACENT AVAILABLE DEVICE AS NOTED AND/OR AS DIRECTED BY THE ARCHITECT AND/OR THE OWNER'S REPRESENTATIVE.

6. WHEREVER EXISTING DEVICES, PANELS, CONDUITS, CABLES, ETC., CONFLICT WITH REMODEL WORK, WHETHER SHOWN OR NOT, RELOCATE THESE ITEMS AS DIRECTED BY THE ARCHITECT AND/OR OWNER'S REPRESENTATIVE AND REPAIR ALL SURFACES. 7.COORDINATE WITH OTHER TRADES AND PROMPTLY TRANSMIT ALL

INFORMATION REQUIRED BY THEM. COORDINATE THE SEQUENCE OF DEMOLITION WITH OTHER TRADES TO ENSURE THAT ALL WORK PROCEEDS WITH A MINIMUM OF INTERFERENCE AND DELAY. 8. WHERE EXISTING WIRING OR EQUIPMENT IS ABANDONED AS A RESULT OF

THIS CONTRACT, IT SHALL BE REMOVED INSOFAR AS POSSIBLE. THIS INCLUDES BUT IS NOT LIMITED TO: a.REMOVE ALL WIRE AND CABLE b. REMOVE ALL DEVICES AND EQUIPMENT.

c.REMOVE ALL EXPOSED CONDUIT AND CONDUIT IN ACCESSIBLE CONCEALED AREA, AS FAR AS POSSIBLE. d.CUT OFF AND CAP ALL ABANDONED CONDUIT. STUBS SHALL NOT BE PROTRUDED ABOVE FLOOR AND/OR FINISHED WALLS AND CEILINGS.

#### FIRE ALARM MONITORING NOTE

AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AS AMENDED BY ARTICLE 91. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY DISTRICT.

#### GOVERNING CODES & APPLICABLE STANDARDS

TITLE 24 CODES: 2019 CALIFORNIA BUILDING STANDARD ADMINISTRATIVE CODE (CAC), (PART 1 TITLE 24, CCR).

2. 2019 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 AND 2 (PART 2, TITLE 24, CCR), (2018 EDITION INTERNATIONAL BUILDING CODE WITH CALIFORNIA AMENDMENTS).

2019 CALIFORNIA ELECTRICAL CODE, (PART 3, TITLE 24, CCR), (2017 EDITION NATIONAL ELECTRICAL CODE WITH CALIFORNIA AMENDMENTS).

2019 CALIFORNIA MECHANICAL CODE (CMC), (PART 4, TITLE 24, CCR), (2018 EDITION IAPMO UNIFORM MECHANICAL CODE). 2019 CALIFORNIA PLUMBING CODE (CPC), (PART 5, TITLE 24, CCR), (2018

EDITION IAPMO UNIFORM PLUMBING CODE WITH CALIFORNIA 2019 CALIFORNIA ENERGY CODE, (PART 6, TITLE 24. CCR), (CALIFORNIA

ENERGY COMMISSION BUILDING ENERGY EFFICIENCY STANDARDS). 2019 CALIFORNIA FIRE CODE (CFC), (PART 9, TITLE 24, CCR) (2018

EDITION INTERNATIONAL FIRE CODE WITH CALIFORNIA AMENDMENTS). 8. 2019 CALIFORNIA REFERENCE CODE, (PART 12, TITLE 24. CCR).

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS:

. 2019 CBC, CHAPTER 35.

2. 2019 CFC, CHAPTER 80. 3. 2016 NFPA 72, AS AMENDED.

#### FIRE ALARM SPEAKER/STROBE NOTES

PER NFPA 72 2016 SECTION 10.12.2: WHEN AN OCCUPANT NOTIFICATION ALARM SIGNAL DEACTIVATION MEANS IS ACTUATED, BOTH AUDIBLE AND VISIBLE NOTIFICATION APPLIANCES SHALL BE SIMULTANEOUSLY DEACTIVATED.

PER NFPA 72 2016 SECTION A10.12.2: WHERE IT IS DESIRED TO DEACTIVATE THE NOTIFICATION APPLIANCES FOR FIRE SERVICE OPERATIONS INSIDE THE BUILDING AND SIGNAL EVACUATED OCCUPANTS THAT AN ALARM IS STILL PRESENT. IT IS RECOMMENDED THAT A SEPARATE NON-SILENCEABLE NOTIFICATION RECOMMENDED THAT A SEPARATE NON-SILENCEABLE NOTIFICATION ZONE BE PROVIDED ON THE EXTERIOR OF THE BUILDING. THE AUDIBLE AND VISIBLE NOTIFICATION APPLIANCES LOCATED AT THE BUILDING ENTRANCES COULD SERVE AS A WARNING TO PREVENT OCCUPANT RE-ENTRY.

PROVIDE FIRE ALARM EMERGENCY COMMUNICATION SYSTEM AUDIBLE NOTIFICATION IN ALL COMMON AREAS. AUDIBLE LEVELS SHALL MEET APPLICABLE STANDARDS IN NFPA 72 CHAPTER 24.4 ONE-WAY EMERGENCY COMMUNICATION SYSTEM. TESTING AND REPORTS REQUIREMENTS FOR INTELLIGIBILITY SHALL BE PROVIDED PRIOR TO ACCEPTANCE OR FINAL TESTING WITH AUTHORITY HAVING JURISDICTION.

A FLASHING VISUAL WARNING DEVICE HAVING A FREQUENCY OF NOT MORE THAN 60 FLASHES PER MINUTE [TWO (2) FLASHES OR LESS THAN ONE (1) FLASH PER SECOND] SHALL BE INSTALLED TO WARN THE HEARING-IMPAIRED AS SHOWN ON THE DRAWINGS. FLASHING VISUAL WARNING DEVICES VIEWABLE WITHIN THE SAME INTERIOR SPACE SHALL BE SYNCHRONIZED. (NFPA 72, 18.5.3.6, A18.5.3.6 AND 18.5.5.5.7)

ALL STROBE CIRCUITS SHALL BE SYNCHRONIZED NFPA 72 A.18.5.3.6

#### FIRE ALARM CARBON MONOXIDE NOTES

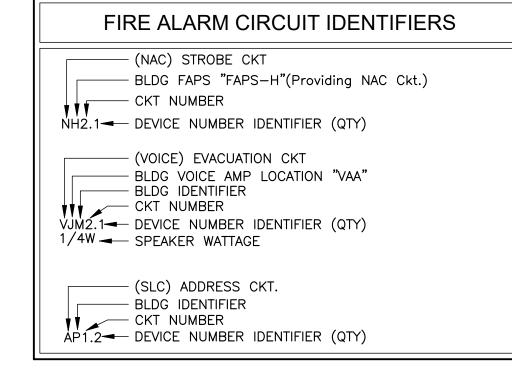
PROGRAM CARBON MONOXIDE ALARM SIGNAL TO TAKE PRIORITY OVER SUPERVISORY AND TROUBLE SIGNALS PER NFPA 720, 7.2.1.

. FACP MUST BE CAPABLE OF GENERATING BOTH A 3-PULSE (FIRE ALARM) AND 4-PULSE (CARBON MONOXIDE ALARM) TEMPORAL PATTERN PER NFPA 720,

#### FIRE ALARM SHEET INDEX SHEET NO. SHEET TITLE FIRE ALARM LEGEND, ABBREVIATIONS, AND NOTES FA1.00 FIRE ALARM SITE PLAN - OVERALL FA1.01 PARTIAL FIRE ALARM SITE PLAN PARTIAL FIRE ALARM SITE PLAN FA1.03 PARTIAL FIRE ALARM SITE PLAN PARTIAL FIRE ALARM SITE PLAN DEMOLITION FIRE ALARM PLAN - BUILDING A DEMOLITION FIRE ALARM PLAN - BUILDING C & D FA2.02 DEMOLITION FIRE ALARM PLAN - BUILDING E & F DEMOLITION FIRE ALARM PLAN - BUILDING G DEMOLITION FIRE ALARM PLAN - BUILDING H, AJ, & AK DEMOLITION FIRE ALARM PLAN - BUILDING I DEMOLITION FIRE ALARM PLAN - BUILDING K FA2.07 DEMOLITION FIRE ALARM PLAN - BUILDING M DEMOLITION FIRE ALARM PLAN - BUILDING N FIRE ALARM PLAN - BUILDING A FA3.01 FIRE ALARM PLAN - BUILDING C & D FIRE ALARM PLAN - BUILDING E & F FA3.04 FIRE ALARM PLAN - BUILDING G FIRE ALARM PLAN - BUILDING H, AJ, & AK FA3.06 FIRE ALARM PLAN - BUILDING FA3.07 FIRE ALARM PLAN - BUILDING K FA3.08 FIRE ALARM PLAN - BUILDING M FIRE ALARM PLAN - BUILDING N FA4.01 FIRE ALARM SECTIONS FIRE ALARM SECTIONS FA4.03 FIRE ALARM SECTIONS FA4.04 FIRE ALARM SECTIONS FIRE ALARM SECTIONS FA4.05 FIRE ALARM SECTIONS FA4.06 PARTIAL FIRE ALARM RISER DIAGRAM PARTIAL FIRE ALARM RISER DIAGRAM PARTIAL FIRE ALARM RISER DIAGRAM FIRE ALARM BATTERY AND VOLTAGE DROP CALCS FIRE ALARM BATTERY AND VOLTAGE DROP CALCS CONT FIRE ALARM DETAILS

FA6.02 FIRE ALARM DETAILS

#### FIRE ALARM SCOPE OF WORK SCOPE OF THIS PROJECT IS TO INCORPORATE A NEW AUTOMATIC FIRE ALARM SYSTEM WITH VOICE EVACUATION, INCLUDING FACP, VOICE AMPLIFIERS, POWER SUPPLIES, MICROPHONE, INITIATION AND NOTIFICATION DEVICES AS SHOWN ON PLANS AND SPECIFICATIONS. IN AREAS WHERE SCOPE OF NEW WORK IS LIMITED TO INSTALLATION OF FIRE ALARM DEVICES, INFRASTRUCTURE (INCLUDING PATHWAY, DEVICE BOXES, ETC.) PROVIDE ALL NEW CABLING. CABLING SHALL BE INSTALLED IN CONDUIT, SURFACE RACEWAY, OR EXPOSED IN ACCESSIBLE CEILING SPACE. CONSTRUCTION TYPE: V-B. III-B (G), II-A (M) # OF STORIES: 1 DSA INSPECTOR CLASSIFICATION: THE OWNER SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PROVIDE SPECIAL INSPECTIONS AND TESTS DURING CONSTRUCTION PER CBC 1701A.3 AND DSA 103. FIRE ALARM CIRCUIT IDENTIFIERS (NAC) STROBE CKT - BLDG FAPS "FAPS—H"(Providing NAC Ckt.) CKT\_NUMBER







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Sacramento, CA 95833

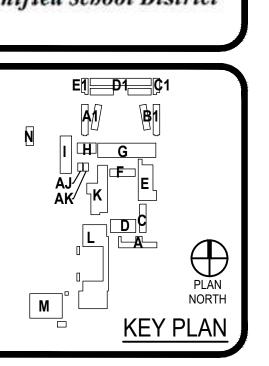
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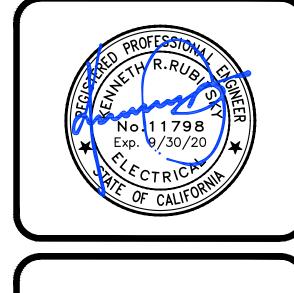
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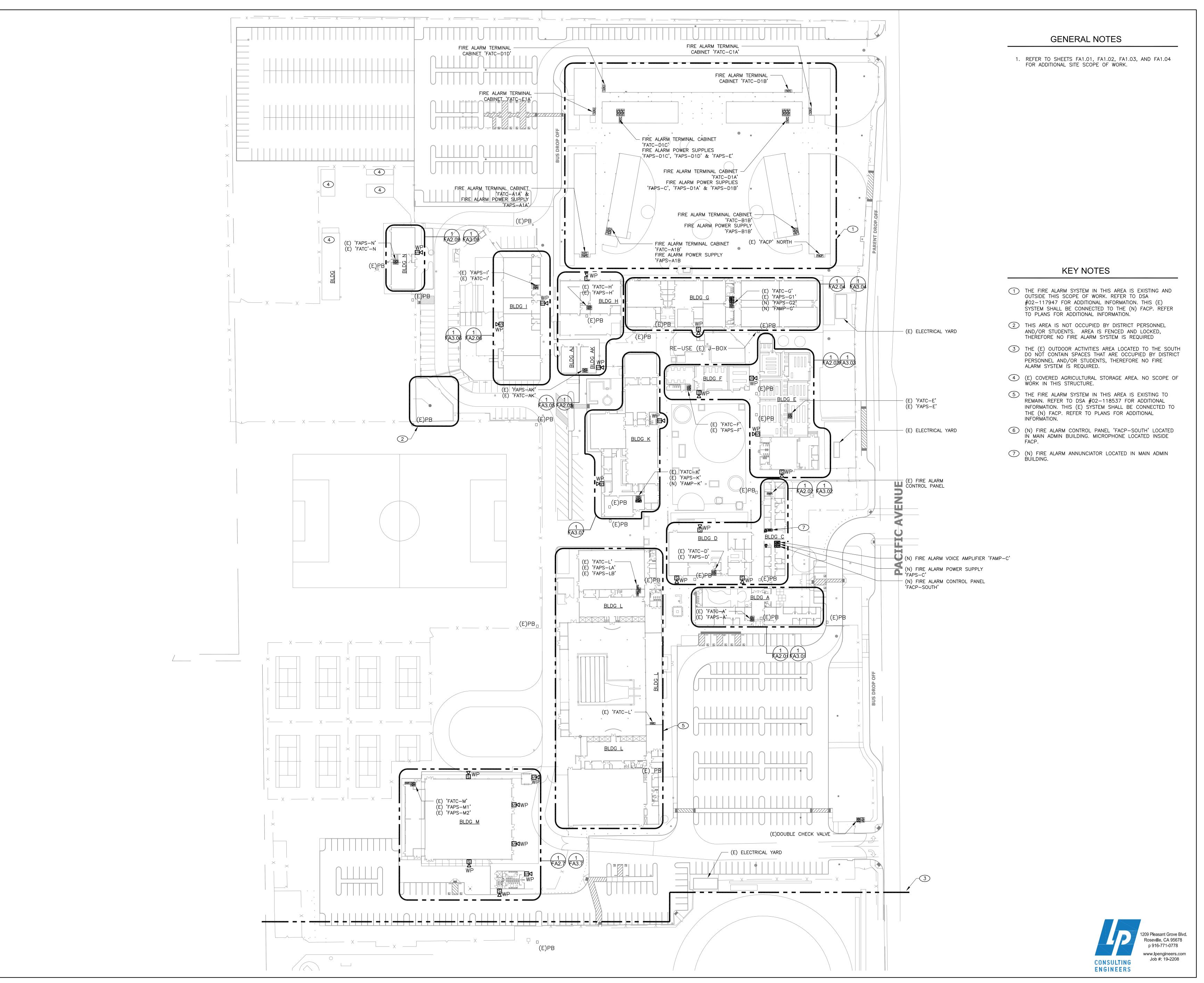






LODI UNIFIED SCHOOL DISTRICT PROJECT NUMBER JULY 24, 2020 DESCRIPTION DATE CONSTRUCTION DOCUMENTS FIRE ALARM LEGEND, ABBREVIATIONS, &

NOTES



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ARCHITECT SACRAMENTO 2520 Venture Oaks Way, Suite 440

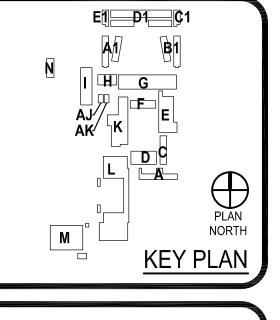
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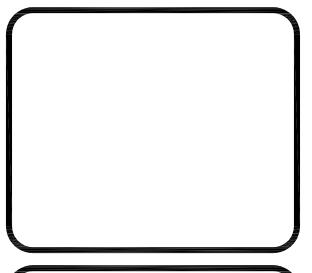
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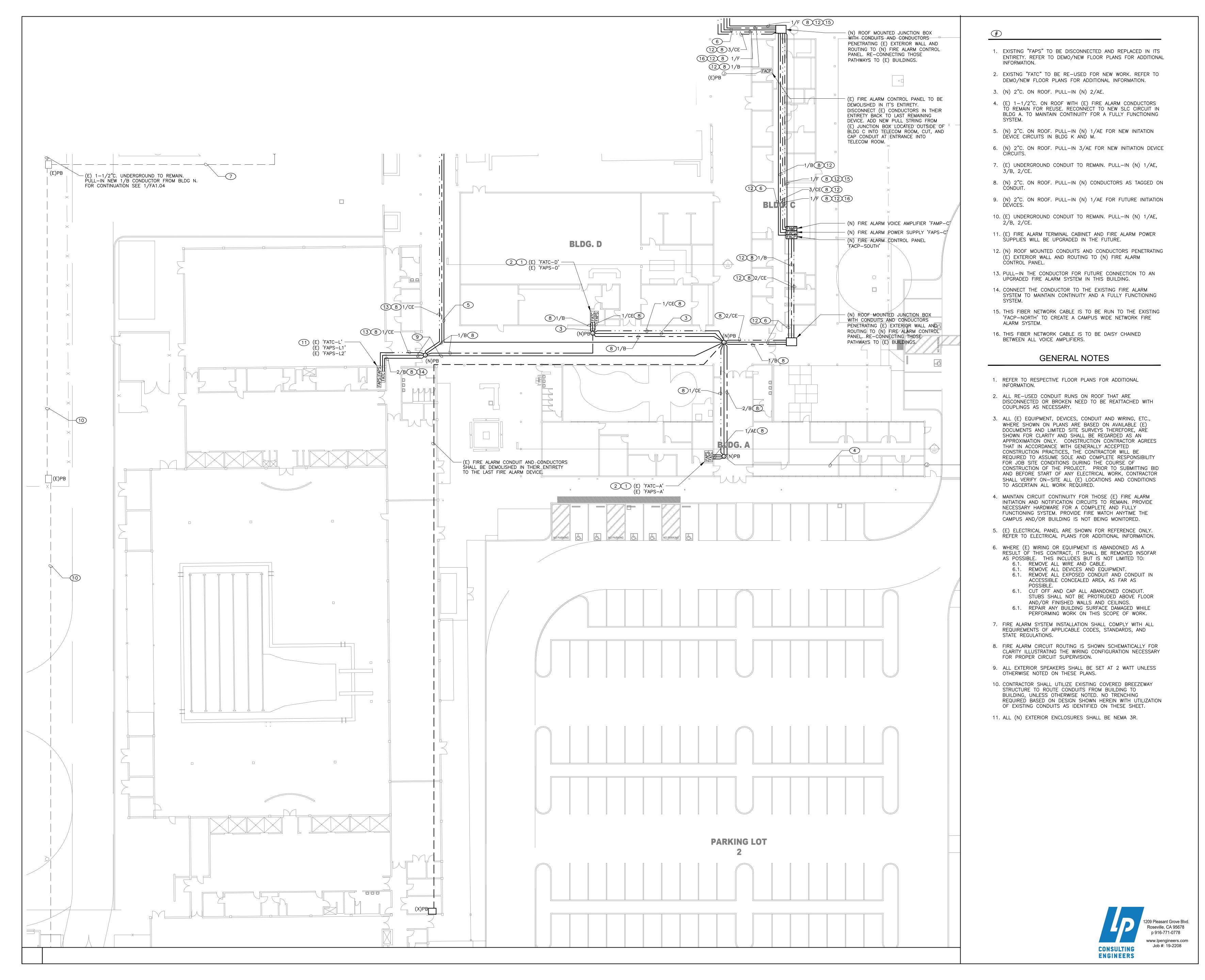






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**OVERALL** 



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 02-118482 INC:

REVIEWED FOR
SS FLS ACS 
DATE: 09/23/2020

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SACRAMENTO
2520 Venture Oaks Way, Suite 440
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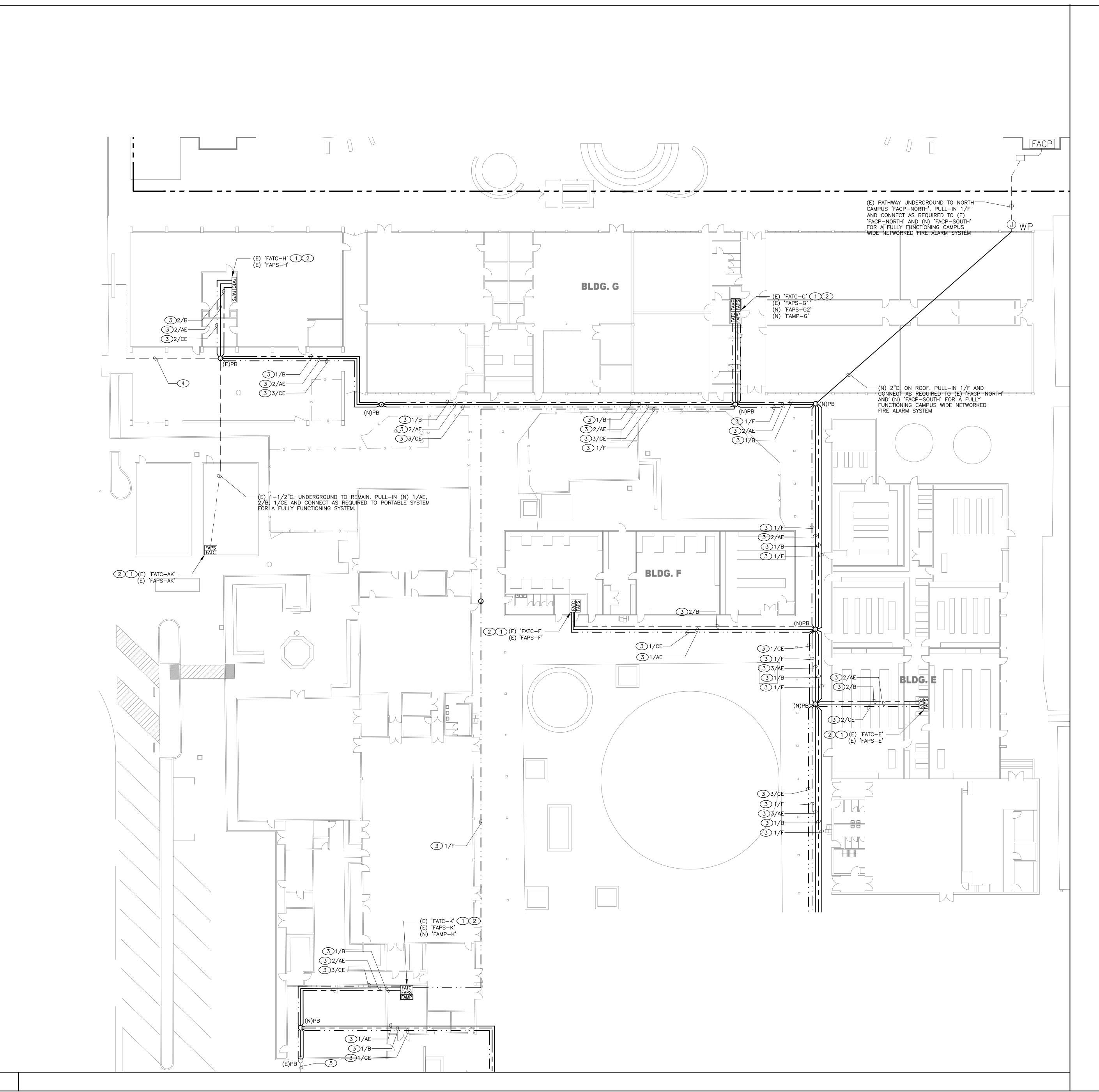
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CONSTRUCTION DOCUMENTS

PARTIAL FIRE ALARM SITE PLAN

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- 1. EXISTING "FAPS" TO BE DISCONNECTED AND REPLACED IN ITS ENTIRETY. REFER TO DEMO/NEW FLOOR PLANS FOR ADDITIONAL INFORMATION.
- 2. EXISTNG "FATC" TO BE RE-USED FOR NEW WORK. REFER TO
- DEMO/NEW FLOOR PLANS FOR ADDITIONAL INFORMATION. 3. (N) 2"C. ON ROOF. PULL-IN (N) CONDUCTORS AS TAGGED ON
- 4. (E) 1-1/2°C. UNDERGROUND TO REMAIN. PULL-IN (N) 1/AE,
- 1/B, 2/CE.
- 5. (E) 1-1/2"C. UNDERGROUND TO REMAIN. PULL-IN (N) 1/AE, 2/B, 2/CE.

#### **GENERAL NOTES**

- 1. REFER TO RESPECTIVE FLOOR PLANS FOR ADDITIONAL INFORMATION.
- 2. ALL RE-USED CONDUIT RUNS ON ROOF THAT ARE DISCONNECTED OR BROKEN NEED TO BE REATTACHED WITH COUPLINGS AS NECESSARY.
- 3. ALL (E) EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., WHERE SHOWN ON PLANS ARE BASED ON AVAILABLE (E) DOCUMENTS AND LIMITED SITE SURVEYS THEREFORE, ARÉ SHOWN FOR CLARITY AND SHALL BE REGARDED AS AN APPROXIMATION ONLY. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. PRIOR TO SUBMITTING BID AND BEFORE START OF ANY ELECTRICAL WORK, CONTRACTOR SHALL VERIFY ON-SITE ALL (E) LOCATIONS AND CONDITIONS TO ASCERTAIN ALL WORK REQUIRED.
- 4. MAINTAIN CIRCUIT CONTINUITY FOR THOSE (E) FIRE ALARM INITIATION AND NOTIFICATION CIRCUITS TO REMAIN. PROVIDE NECESSARY HARDWARE FOR A COMPLETE AND FULLY FUNCTIONING SYSTEM. PROVIDE FIRE WATCH ANYTIME THE CAMPUS AND/OR BUILDING IS NOT BEING MONITORED.
- 5. (E) ELECTRICAL PANEL ARE SHOWN FOR REFERENCE ONLY. RÉFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- 6. WHERE (E) WIRING OR EQUIPMENT IS ABANDONED AS A RESULT OF THIS CONTRACT, IT SHALL BE REMOVED INSOFAR AS POSSIBLE. THIS INCLUDES BUT IS NOT LIMITED TO:
  - 6.1. REMOVE ALL WIRE AND CABLE. 6.1. REMOVE ALL DEVICES AND EQUIPMENT.
  - 6.1. REMOVE ALL EXPOSED CONDUIT AND CONDUIT IN ACCESSIBLE CONCEALED AREA, AS FAR AS
  - 6.1. CUT OFF AND CAP ALL ABANDONED CONDUIT.
  - STUBS SHALL NOT BE PROTRUDED ABOVE FLOOR AND/OR FINISHED WALLS AND CEILINGS. 6.1. REPAIR ANY BUILDING SURFACE DAMAGED WHILE PERFORMING WORK ON THIS SCOPE OF WORK.
- 7. FIRE ALARM SYSTEM INSTALLATION SHALL COMPLY WITH ALL REQUIREMENTS OF APPLICABLE CODES, STANDARDS, AND STATE REGULATIONS.
- 8. FIRE ALARM CIRCUIT ROUTING IS SHOWN SCHEMATICALLY FOR CLARITY ILLUSTRATING THE WIRING CONFIGURATION NECESSARY FOR PROPER CIRCUIT SUPERVISION.
- 9. ALL EXTERIOR SPEAKERS SHALL BE SET AT 2 WATT UNLESS OTHERWISE NOTED ON THESE PLANS.
- 10. CONTRACTOR SHALL UTILIZE EXISTING COVERED BREEZEWAY STRUCTURE TO ROUTE CONDUITS FROM BUILDING TO BUILDING, UNLESS OTHERWISE NOTED. NO TRENCHING REQUIRED BASED ON DESIGN SHOWN HEREIN WITH UTILIZATION OF EXISTING CONDUITS AS IDENTIFIED ON THESE SHEET.

11. ALL (N) EXTERIOR ENCLOSURES SHALL BE NEMA 3R.

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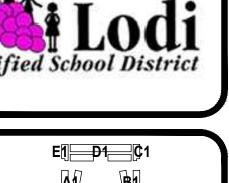
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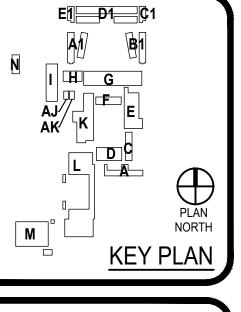
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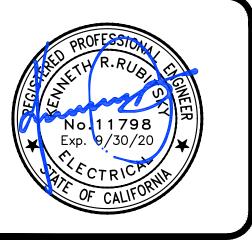
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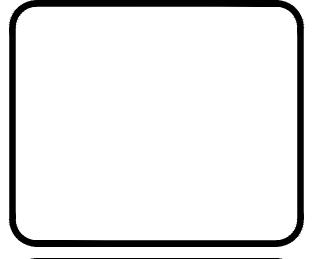
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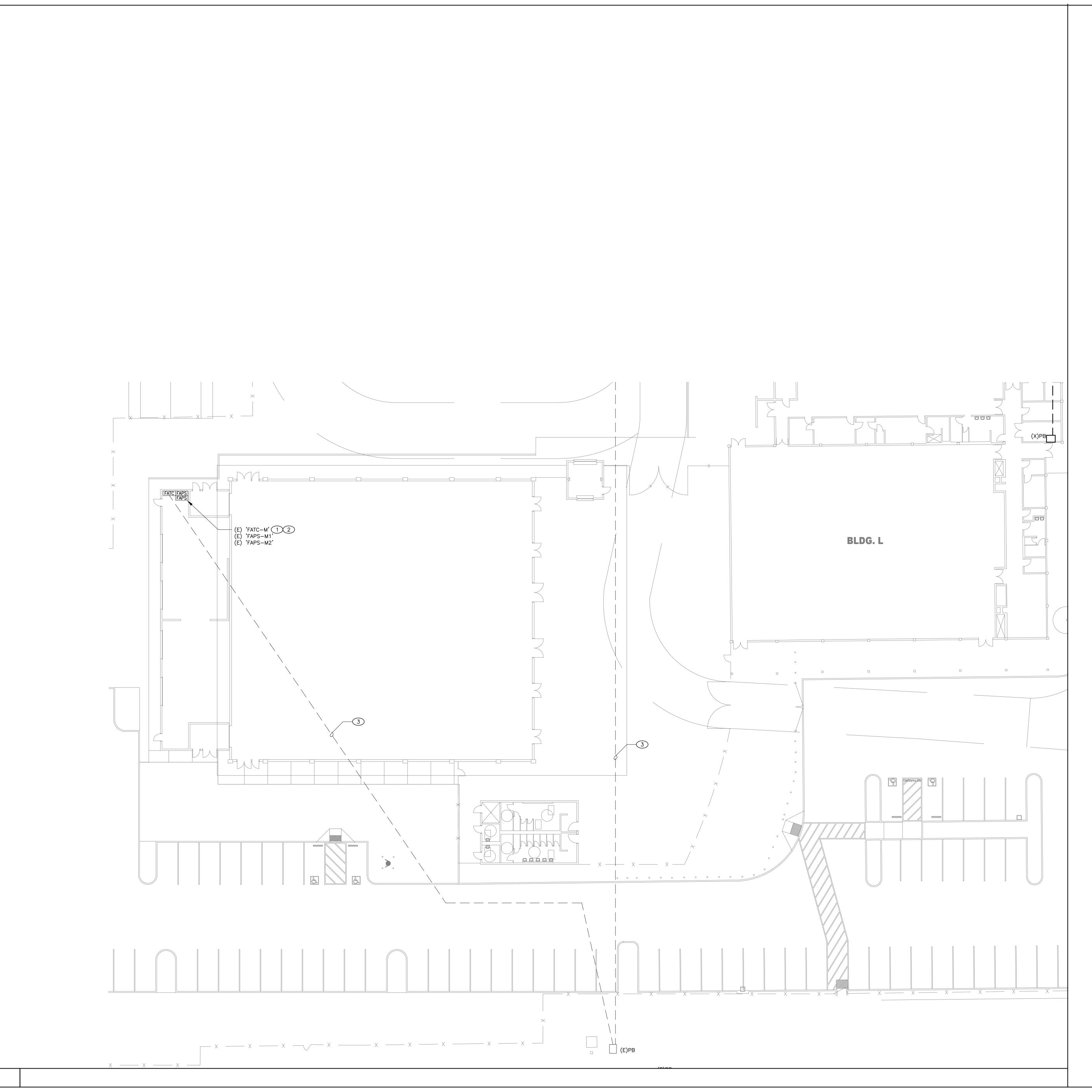
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**PLAN** 

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www.lpengineers.com Job #: 19-2208

CONSULTING ENGINEERS



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#### GENERAL NOTES

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- 8. FIRE ALARM CIRCUIT ROUTING IS SHOWN SCHEMATICALLY FOR CLARITY ILLUSTRATING THE WIRING CONFIGURATION NECESSARY FOR PROPER CIRCUIT SUPERVISION.
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CHITECT PBK Architects, In

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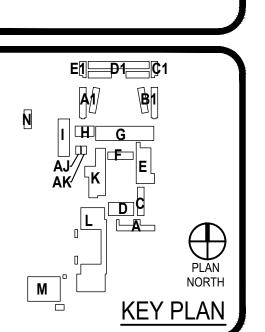
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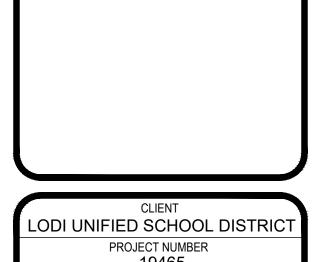
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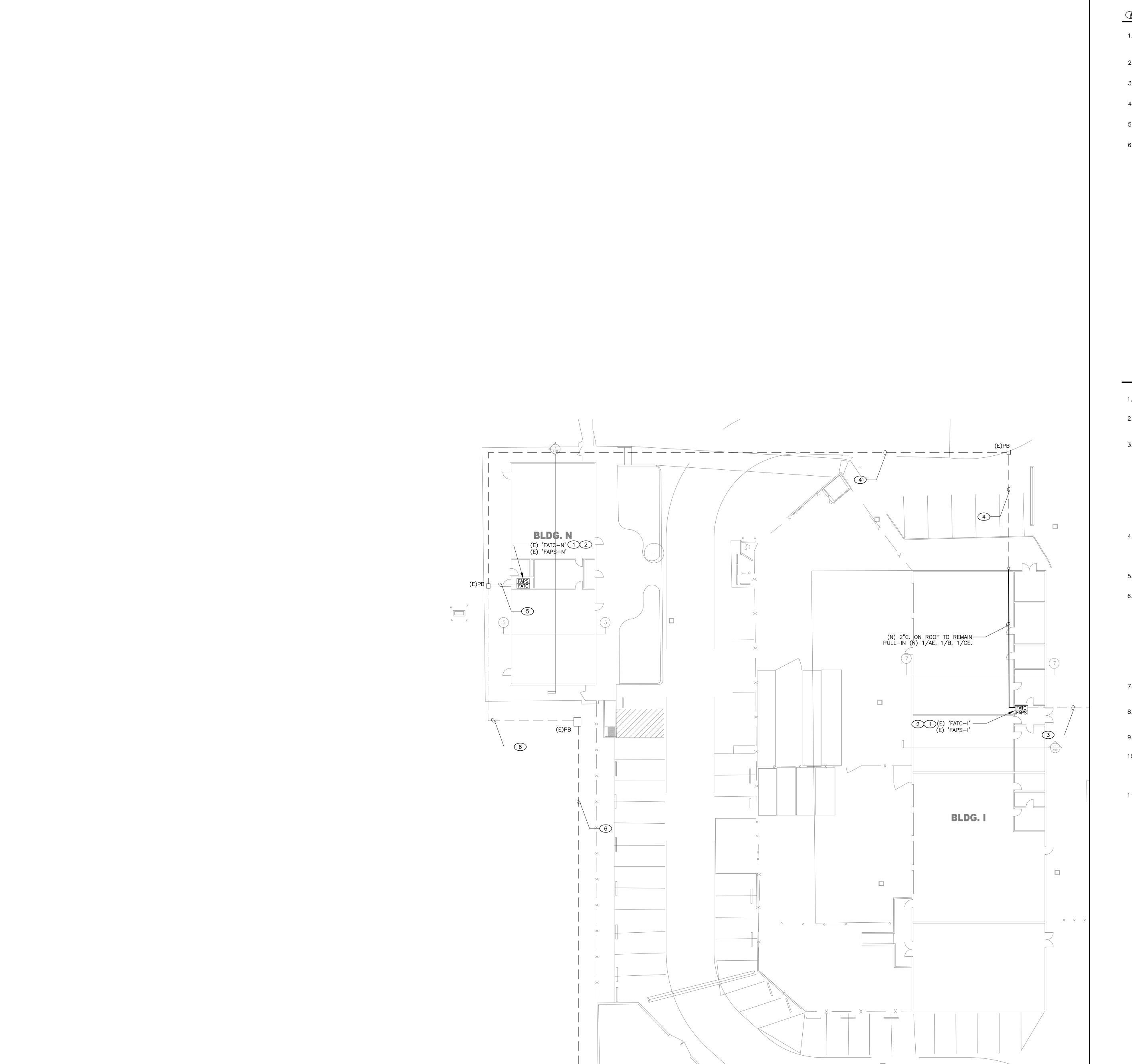
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**PLAN** 

1209 Pleasant Grove Blvd. Roseville, CA 95678 p 916-771-0778

www.lpengineers.com Job #: 19-2208

CONSULTING ENGINEERS



- EXISTING "FAPS" TO BE DISCONNECTED AND REPLACED IN ITS ENTIRETY. REFER TO DEMO/NEW FLOOR PLANS FOR ADDITIONAL INFORMATION.
- 2. EXISTNG "FATC" TO BE RE-USED FOR NEW WORK. REFER TO
- 3. (E) 1-1/2"C. UNDERGROUND TO REMAIN. PULL-IN (N) 1/AE, 1/B, 2/CE.

DEMO/NEW FLOOR PLANS FOR ADDITIONAL INFORMATION.

- 4. (E) 1-1/2"C. UNDERGROUND TO REMAIN. PULL-IN (N) 1/AE, 1/B, 1/CE.
- 5. (E) 1-1/2"C. UNDERGROUND TO REMAIN. PULL-IN (N) 1/AE, 2/B, 1/CE.
- 6. (E) 1-1/2°C. UNDERGROUND TO REMAIN. PULL-IN (N) 1/B.

#### **GENERAL NOTES**

- REFER TO RESPECTIVE FLOOR PLANS FOR ADDITIONAL INFORMATION.
- 2. ALL RE-USED CONDUIT RUNS ON ROOF THAT ARE DISCONNECTED OR BROKEN NEED TO BE REATTACHED WITH COUPLINGS AS NECESSARY.
- 3. ALL (E) EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., WHERE SHOWN ON PLANS ARE BASED ON AVAILABLE (E) DOCUMENTS AND LIMITED SITE SURVEYS THEREFORE, ARE SHOWN FOR CLARITY AND SHALL BE REGARDED AS AN APPROXIMATION ONLY. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. PRIOR TO SUBMITTING BID AND BEFORE START OF ANY ELECTRICAL WORK, CONTRACTOR SHALL VERIFY ON—SITE ALL (E) LOCATIONS AND CONDITIONS TO ASCERTAIN ALL WORK REQUIRED.
- 4. MAINTAIN CIRCUIT CONTINUITY FOR THOSE (E) FIRE ALARM INITIATION AND NOTIFICATION CIRCUITS TO REMAIN. PROVIDE NECESSARY HARDWARE FOR A COMPLETE AND FULLY FUNCTIONING SYSTEM. PROVIDE FIRE WATCH ANYTIME THE CAMPUS AND/OR BUILDING IS NOT BEING MONITORED.
- 5. (E) ELECTRICAL PANEL ARE SHOWN FOR REFERENCE ONLY.
  REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- 6. WHERE (E) WIRING OR EQUIPMENT IS ABANDONED AS A RESULT OF THIS CONTRACT, IT SHALL BE REMOVED INSOFAR
- AS POSSIBLE. THIS INCLUDES BUT IS NOT LIMITED TO: 6.1. REMOVE ALL WIRE AND CABLE.
- 6.1. REMOVE ALL DEVICES AND EQUIPMENT.6.1. REMOVE ALL EXPOSED CONDUIT AND CONDUIT IN ACCESSIBLE CONCEALED AREA, AS FAR AS
- POSSIBLE.
  6.1. CUT OFF AND CAP ALL ABANDONED CONDUIT.
- STUBS SHALL NOT BE PROTRUDED ABOVE FLOOR
  AND/OR FINISHED WALLS AND CEILINGS.
  6.1. REPAIR ANY BUILDING SURFACE DAMAGED WHILE

PERFORMING WORK ON THIS SCOPE OF WORK.

- 7. FIRE ALARM SYSTEM INSTALLATION SHALL COMPLY WITH ALL REQUIREMENTS OF APPLICABLE CODES, STANDARDS, AND STATE REGULATIONS.
- 8. FIRE ALARM CIRCUIT ROUTING IS SHOWN SCHEMATICALLY FOR CLARITY ILLUSTRATING THE WIRING CONFIGURATION NECESSARY FOR PROPER CIRCUIT SUPERVISION.
- 9. ALL EXTERIOR SPEAKERS SHALL BE SET AT 2 WATT UNLESS OTHERWISE NOTED ON THESE PLANS.
- 10. CONTRACTOR SHALL UTILIZE EXISTING COVERED BREEZEWAY STRUCTURE TO ROUTE CONDUITS FROM BUILDING TO BUILDING, UNLESS OTHERWISE NOTED. NO TRENCHING REQUIRED BASED ON DESIGN SHOWN HEREIN WITH UTILIZATION OF EXISTING CONDUITS AS IDENTIFIED ON THESE SHEET.

11. ALL (N) EXTERIOR ENCLOSURES SHALL BE NEMA 3R.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

APP: 02-118482 INC:

REVIEWED FOR

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DATE: 09/23/2020



SACRAMENTO
2520 Venture Oaks Way, Suite 440
Sacramento, CA 95833
916-682-9494 P

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MEPT ENGINEER LP Consulting Engineers, Inc.

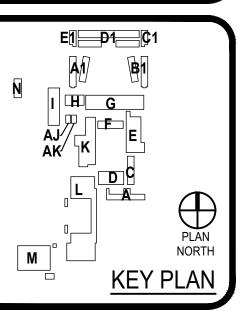
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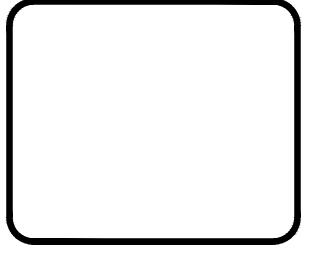
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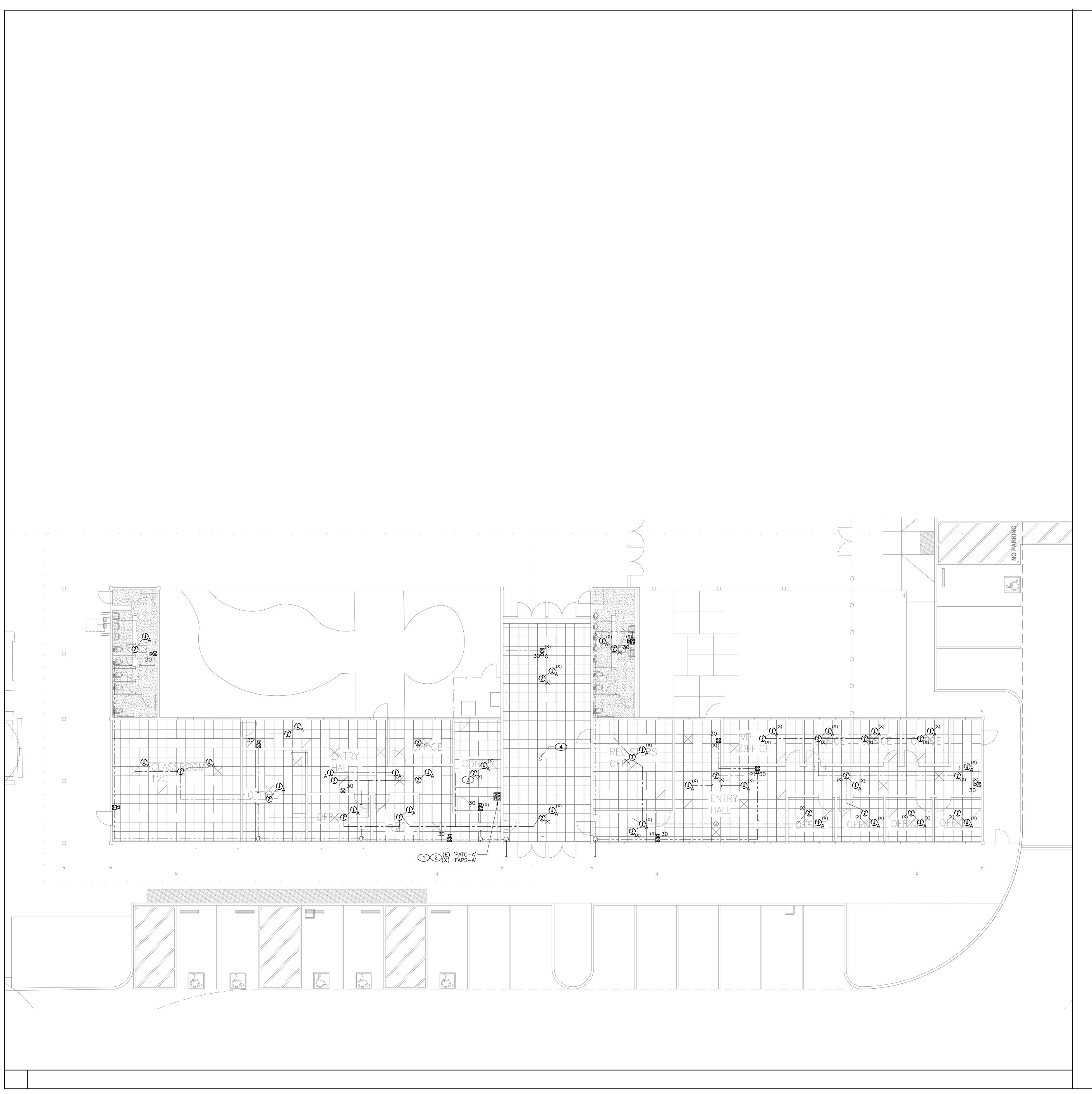
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ALARM SITE PLAN

1209 Pleasant Grove Blvd. Roseville, CA 95678 p 916-771-0778

CONSULTING ENGINEERS

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ACCESSIBLE CONCEALED AREA, AS FAR AS POSSIBLE.

d. CUT OFF AND CAP ALL ABANDONED CONDUIT. STUBS
SHALL NOT BE PROTRUDED ABOVE FLOOR AND/OR
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PBK

ARCHITECT

PBK Architects, Inc.

SACRAMENTO
2520 Venture Oaks Way, Suite 440

916-682-0990 F

MEPT ENGINEER LP Consulting Engineers, Inc.

1209 Pleasant Grove Blvd.
Roseville, CA 95678
916-771-0778 P

Sacramento, CA 95833

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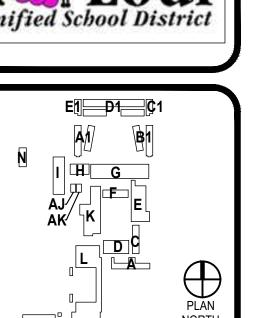
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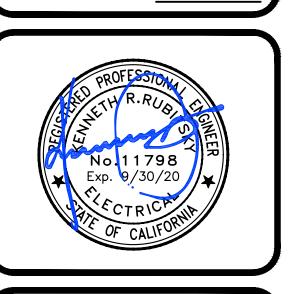
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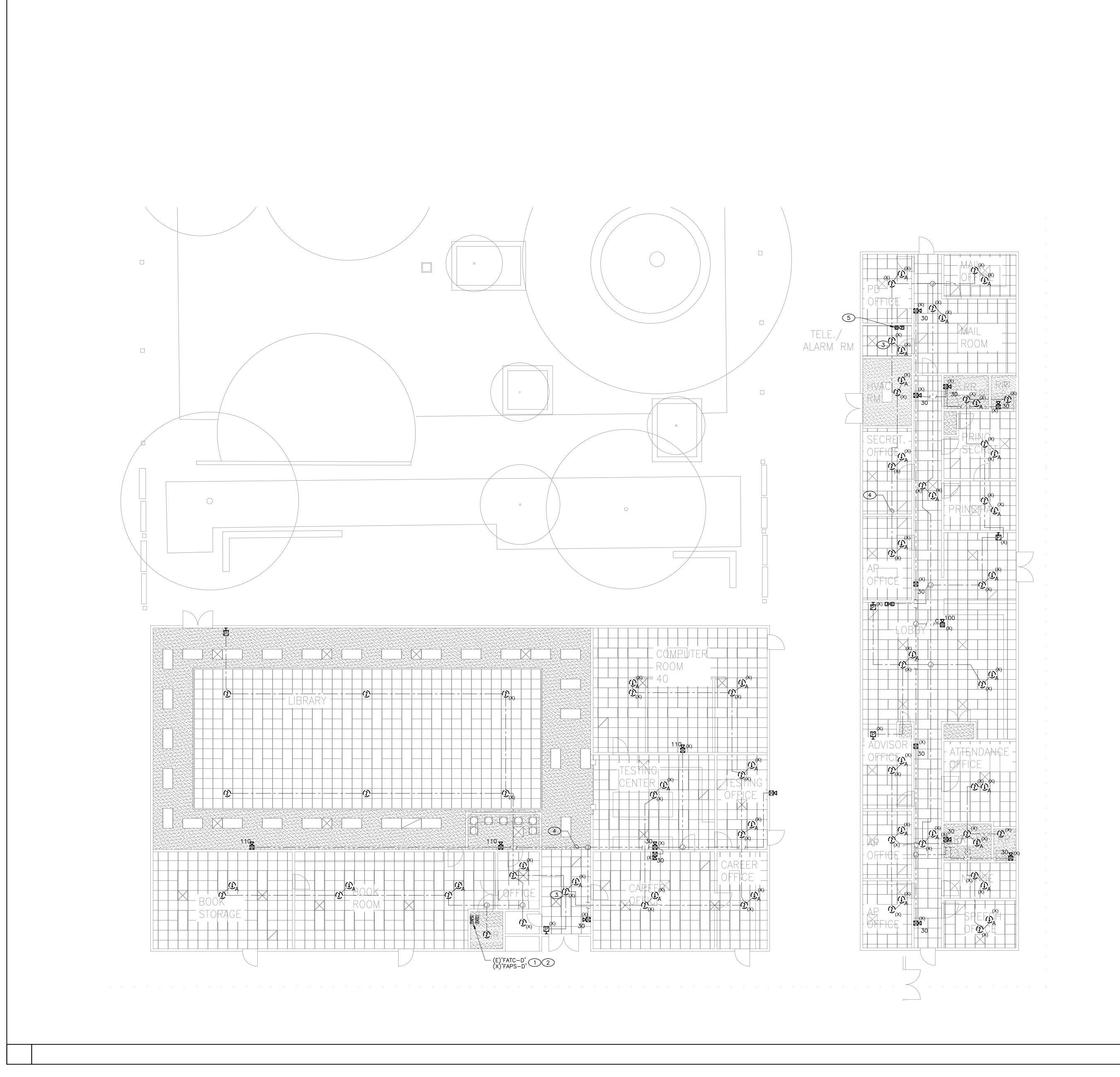






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DEMOLITION FIRE ALARM PLAN -BUILDING A



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- 2 EXISTING 'MATC'TO REMAIN. DISCONNECT AND REMOVE ALL FIRE ALARM CONDUCTORS BACK TO LAST REMAINING DEVICE. MAINTAIN CONDUIT CONTINUITY AND PENETRATIONS FOR RE-USE IN NEW WORK. MAINTAIN CIRCUIT CONTINUITY OF OTHER SYSTEMS LOCATED INSIDE EXISTING ENCLOSURE.
- 3 TYPICAL. EXISTING DEVICE TO BE REPLACED. REFER TO GENERAL NOTES FOR ADDITIONAL INFORMATION.
- 4 TYPICAL. EXISTING CONDUIT TO REMAIN. DISCONNECT AND REMOVE ALL FIRE ALARM CONDUCTORS BACK TO LAST REMAINING DEVICE. REFER TO GENERAL NOTES FOR ADDITIONAL INFORMATION.
- 5 EXISTING 'FACP' TO BE REMOVED AND RELOCATED.
  REFER TO NEW PLANS FOR NEW LOCATION. DISCONNECT
  AND REMOVE ENCLOSURE AND ALL FIRE ALARM
  CONDUCTORS IN THEIR ENTIERTY. DISCONNECT AND
  REMOVE EXISTING 120V BRANCH CIRCUIT BACK TO LAST
  REMAINING DEVICE ON THIS CIRCUIT. PATCH AND PAINT
  WALL TO MATCH EXISTING ADJACENT WALL SURFACE.

#### GENERAL NOTES

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REQUIRED.

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  d. CUT OFF AND CAP ALL ABANDONED CONDUIT. STUBS

  SHALL NOT BE PROTRUDED ABOVE FLOOR AND/OR

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PBK

ARCHITECT PBK Architects, Inc.

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2520 Venture Oaks Way, Suite 440
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916-682-0990 F

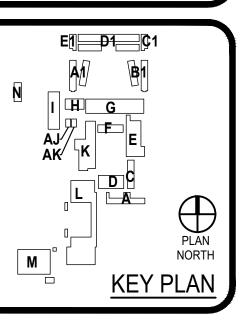
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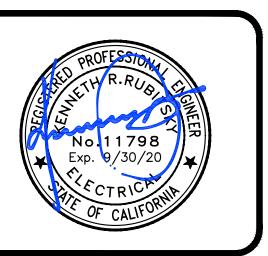
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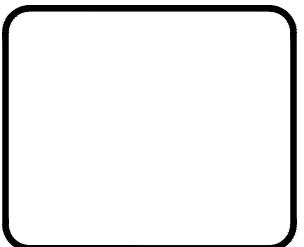
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3 South Pacific Avenue
Lodi, CA 95242





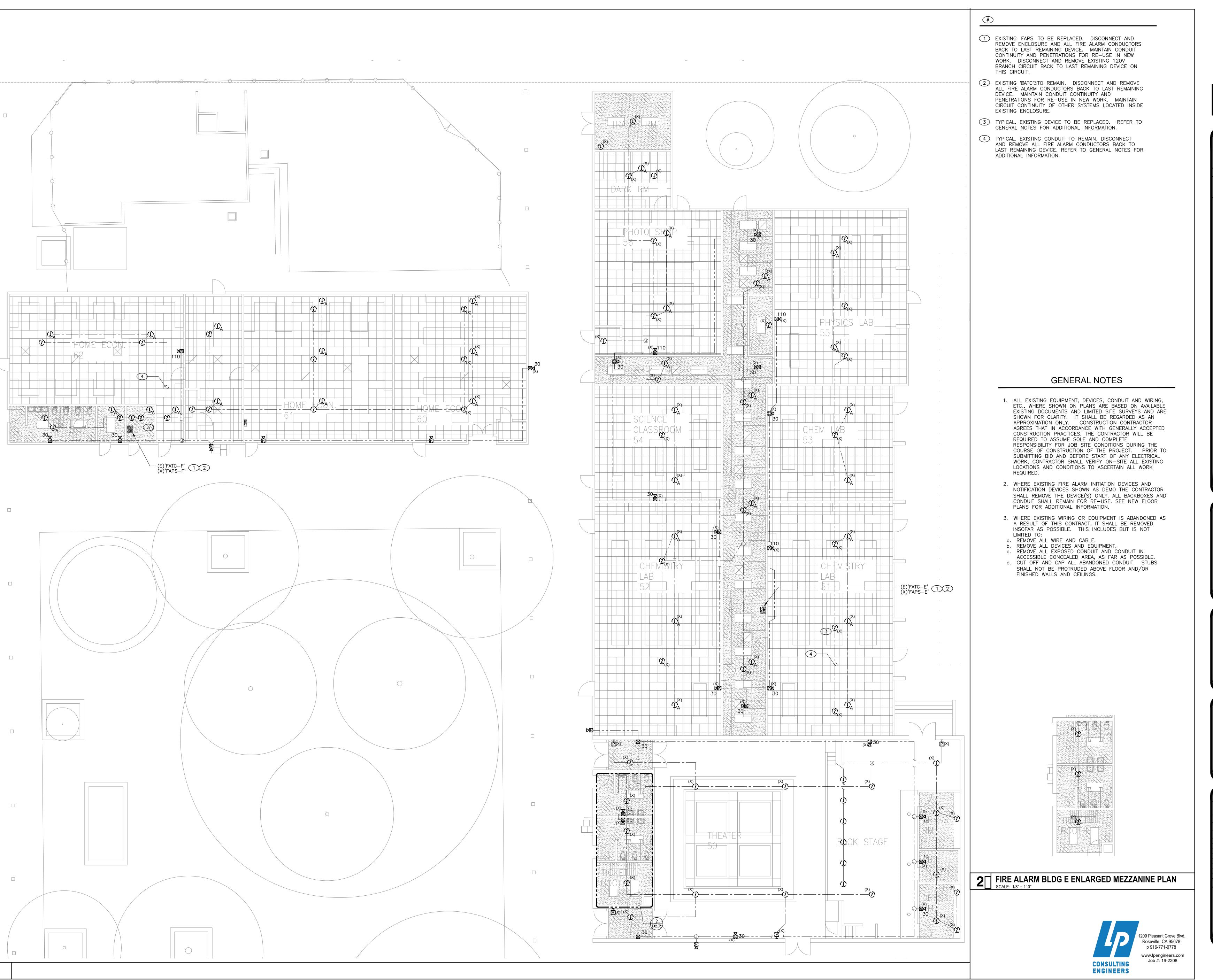




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ARCHITECT

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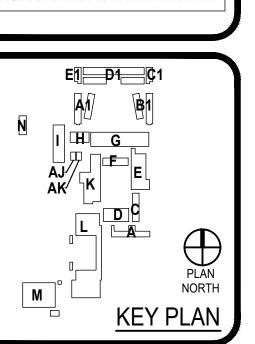
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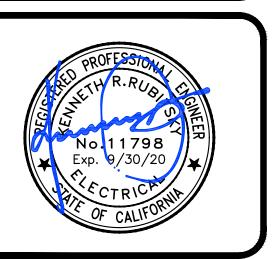
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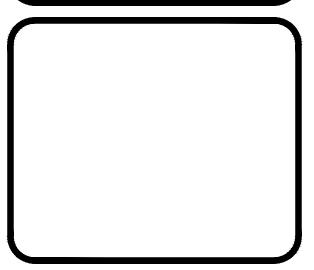
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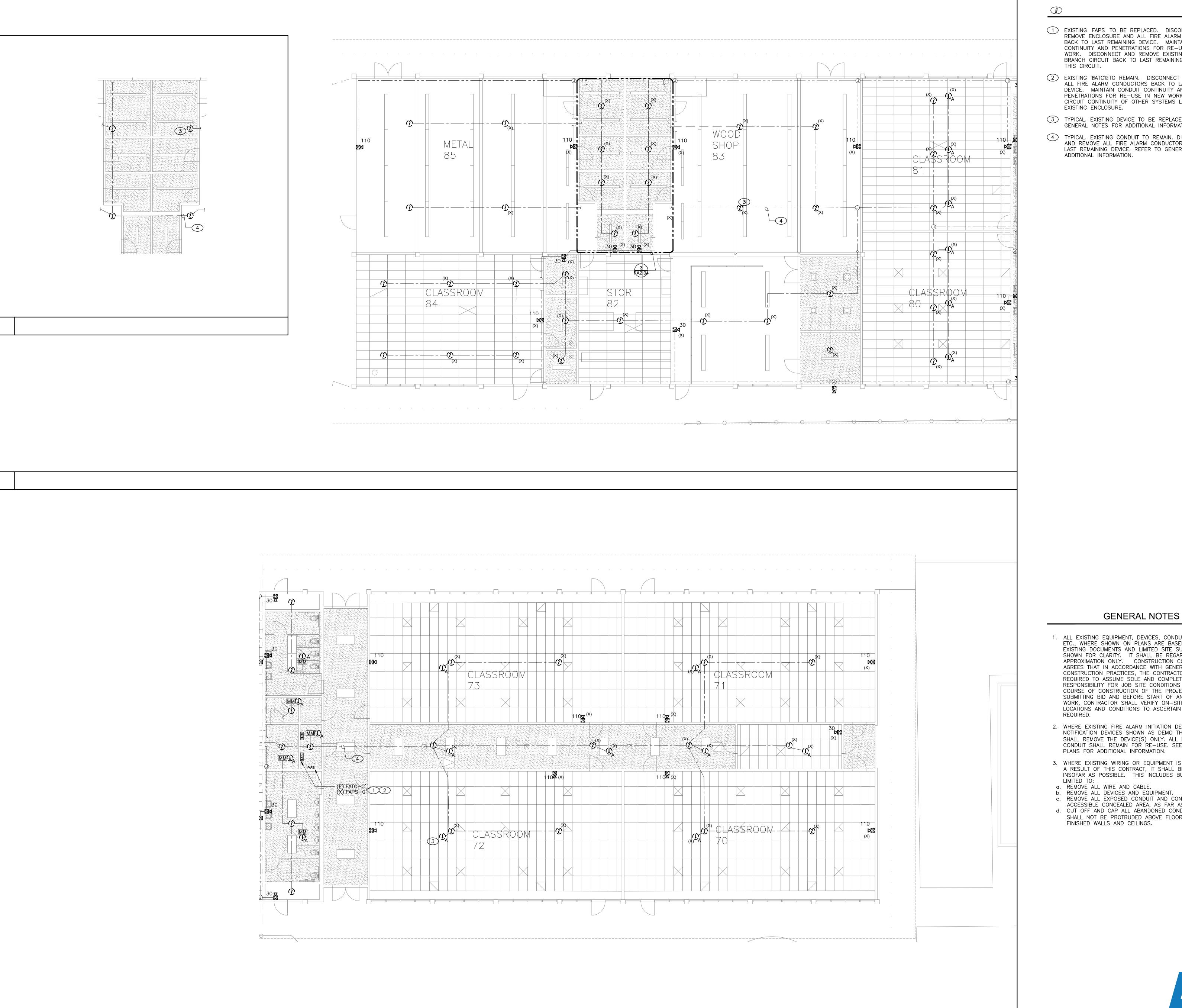






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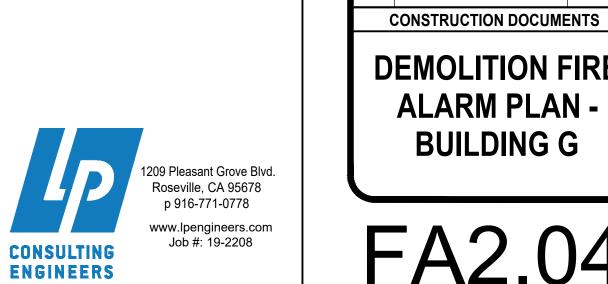


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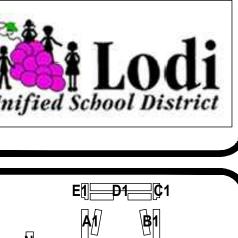


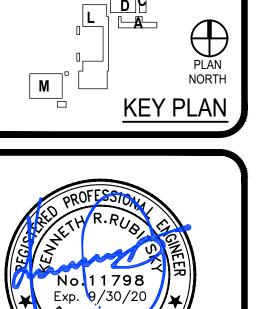
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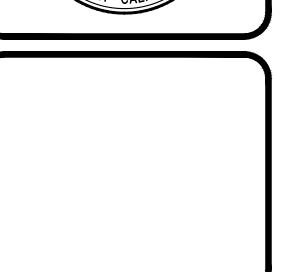
SACRAMENTO 2520 Venture Oaks Way, Suite 440 Sacramento, CA 95833 916-682-9494 P 916-682-0990 F

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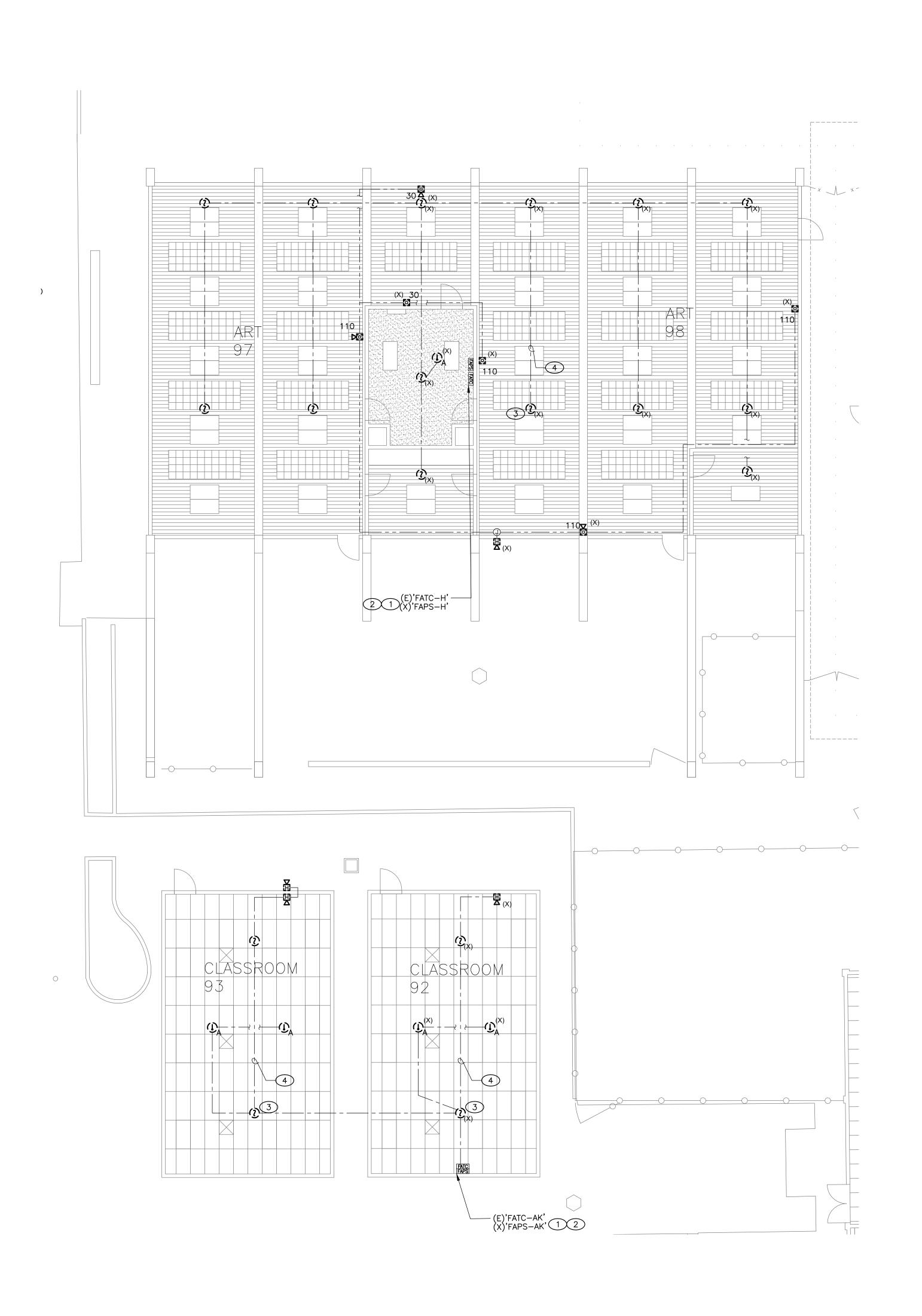






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# PBK

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Sacramento, CA 95833
916-682-9494 P

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MEPT ENGINEER LP Consulting Engineers, In

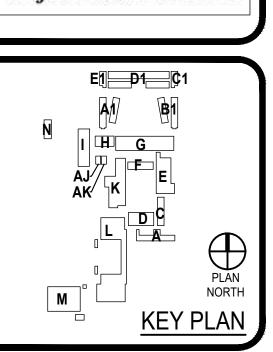
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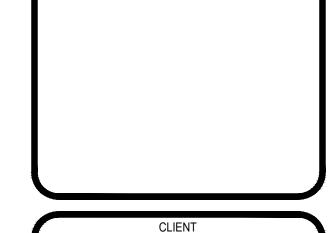
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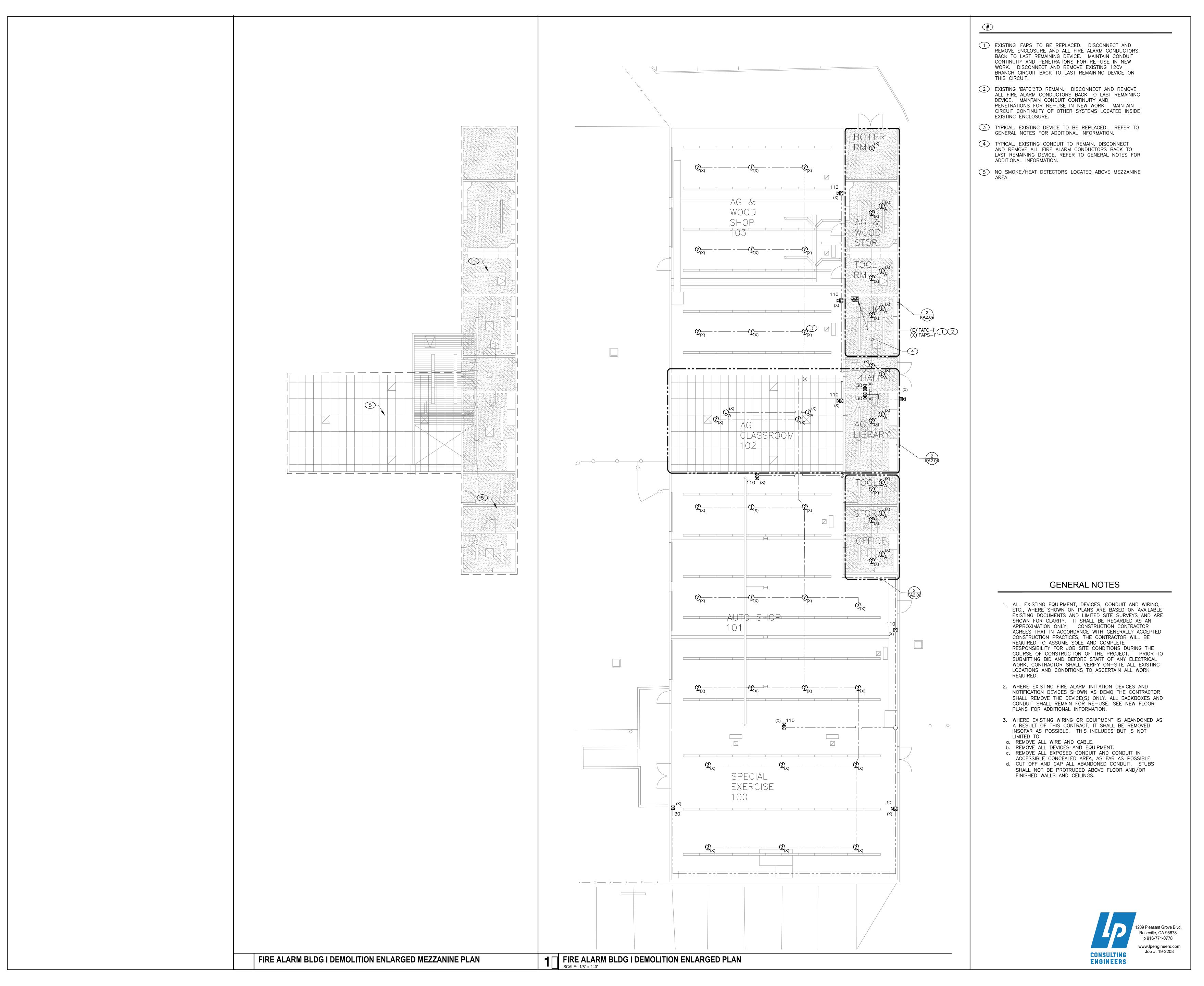






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ARCHITECT

PBK Architects, Inc.

SACRAMENTO
2520 Venture Oaks Way, Suite 440

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1209 Pleasant Grove Blvd.

Sacramento, CA 95833

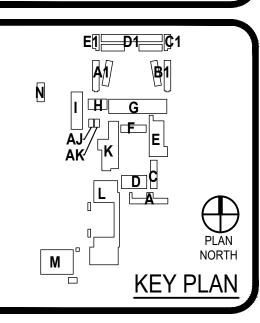
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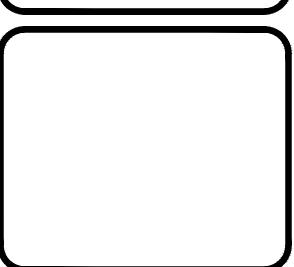
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Unified School District

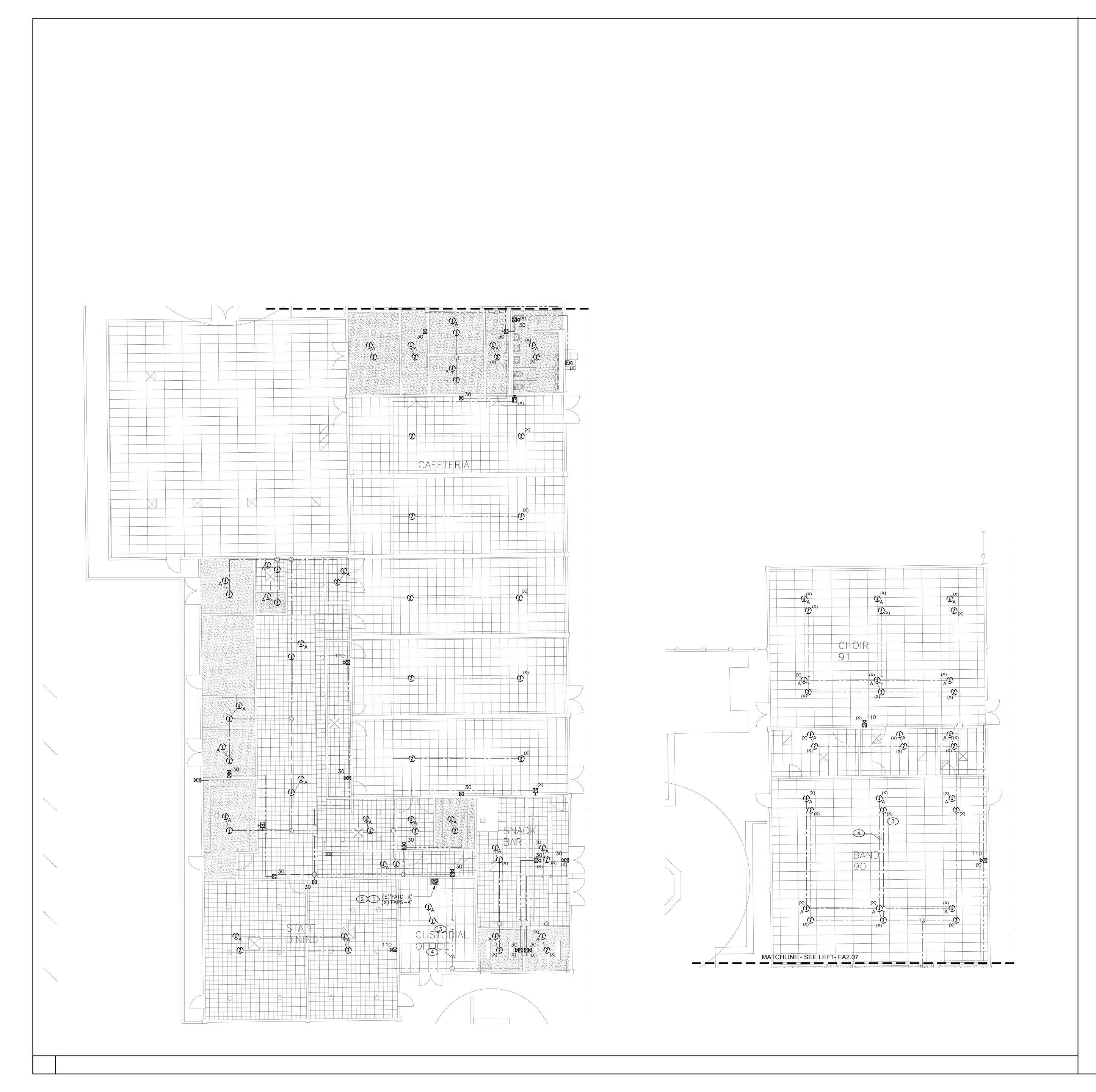






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DEMOLITION FIRE ALARM PLAN -BUILDING I



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- EXISTING FAPS TO BE REPLACED. DISCONNECT AND REMOVE ENCLOSURE AND ALL FIRE ALARM CONDUCTORS BACK TO LAST REMAINING DEVICE. MAINTAIN CONDUIT CONTINUITY AND PENETRATIONS FOR RE-USE IN NEW WORK. DISCONNECT AND REMOVE EXISTING 120V BRANCH CIRCUIT BACK TO LAST REMAINING DEVICE ON THIS CIRCUIT.
- 2 EXISTING 'EATC'TO REMAIN. DISCONNECT AND REMOVE ALL FIRE ALARM CONDUCTORS BACK TO LAST REMAINING DEVICE. MAINTAIN CONDUIT CONTINUITY AND PENETRATIONS FOR RE-USE IN NEW WORK. MAINTAIN CIRCUIT CONTINUITY OF OTHER SYSTEMS LOCATED INSIDE EXISTING ENCLOSURE.
- 3 TYPICAL. EXISTING DEVICE TO BE REPLACED. REFER TO GENERAL NOTES FOR ADDITIONAL INFORMATION.
- TYPICAL. EXISTING CONDUIT TO REMAIN. DISCONNECT AND REMOVE ALL FIRE ALARM CONDUCTORS BACK TO LAST REMAINING DEVICE. REFER TO GENERAL NOTES FOR ADDITIONAL INFORMATION.

#### GENERAL NOTES

- 1. ALL EXISTING EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., WHERE SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DOCUMENTS AND LIMITED SITE SURVEYS AND ARE SHOWN FOR CLARITY. IT SHALL BE REGARDED AS AN APPROXIMATION ONLY. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. PRIOR TO SUBMITTING BID AND BEFORE START OF ANY ELECTRICAL WORK, CONTRACTOR SHALL VERIFY ON—SITE ALL EXISTING LOCATIONS AND CONDITIONS TO ASCERTAIN ALL WORK REQUIRED.
- 2. WHERE EXISTING FIRE ALARM INITIATION DEVICES AND NOTIFICATION DEVICES SHOWN AS DEMO THE CONTRACTOR SHALL REMOVE THE DEVICE(S) ONLY. ALL BACKBOXES AND CONDUIT SHALL REMAIN FOR RE-USE. SEE NEW FLOOR PLANS FOR ADDITIONAL INFORMATION.
- WHERE EXISTING WIRING OR EQUIPMENT IS ABANDONED AS A RESULT OF THIS CONTRACT, IT SHALL BE REMOVED INSOFAR AS POSSIBLE. THIS INCLUDES BUT IS NOT
- LIMITED TO:

  a. REMOVE ALL WIRE AND CABLE.

  b. REMOVE ALL DEVICES AND EQUIPMENT.
- b. REMOVE ALL DEVICES AND EQUIPMENT.c. REMOVE ALL EXPOSED CONDUIT AND CONDUIT IN
- ACCESSIBLE CONCEALED AREA, AS FAR AS POSSIBLE.

  d. CUT OFF AND CAP ALL ABANDONED CONDUIT. STUBS

  SHALL NOT BE PROTRUDED ABOVE FLOOR AND/OR
  FINISHED WALLS AND CEILINGS.



IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

APP: 02-118482 INC:

REVIEWED FOR

SS □ FLS ☑ ACS □

DATE: 09/23/2020

PBK

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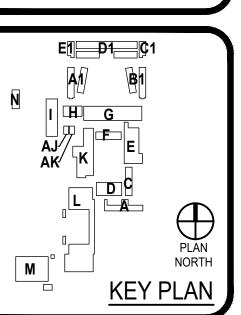
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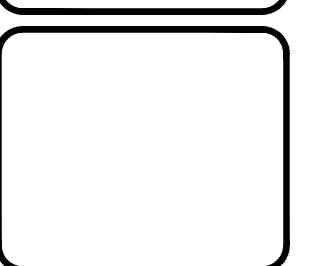
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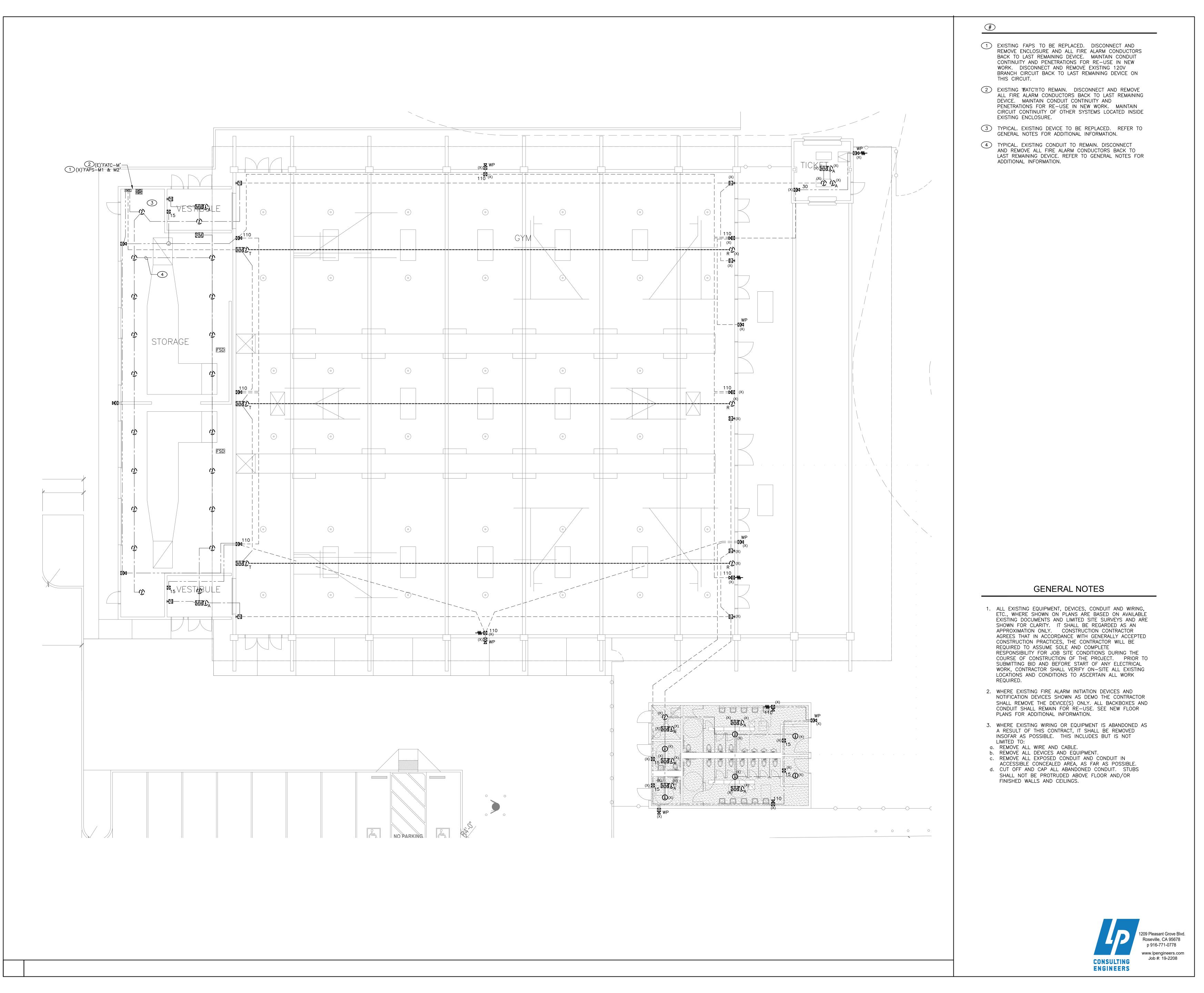




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DEMOLITION FIRE ALARM PLAN -BUILDING K

CONSTRUCTION DOCUMENTS



IDENTIFICATION STAMP
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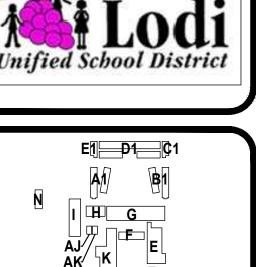
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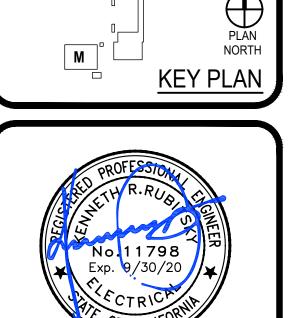
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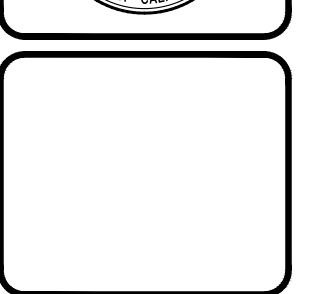
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DEMOLITION FIRE ALARM PLAN -BUILDING M



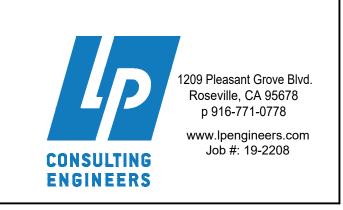
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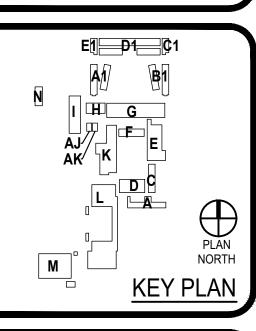
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Roseville, CA 95678

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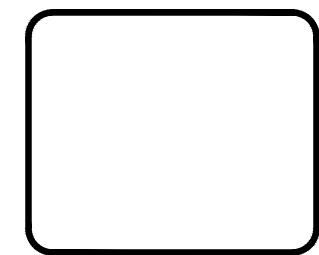
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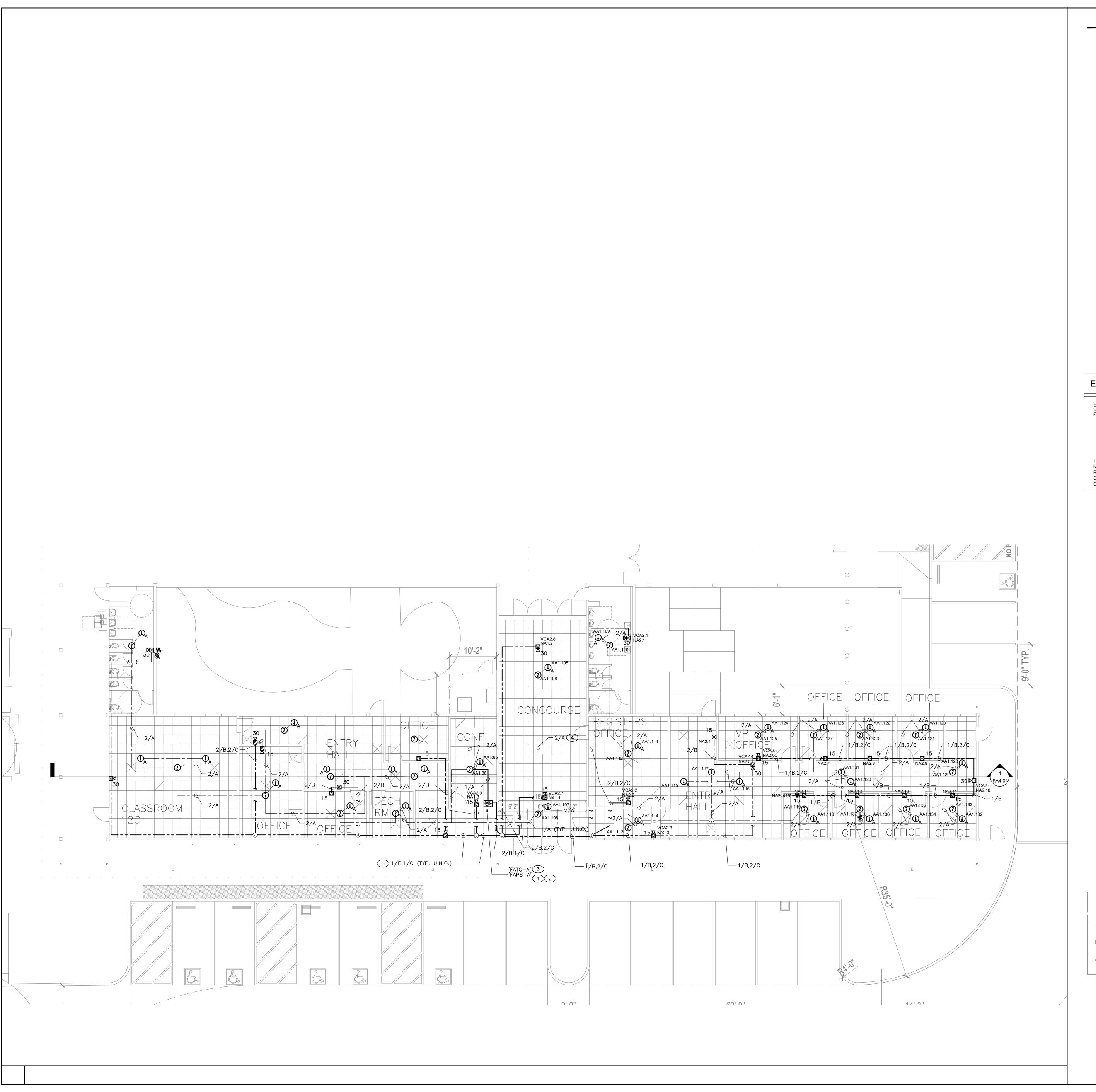






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ALARM PLAN -BUILDING N



#### **H**

- INSTALL 'FAPS' IN SAME SPACE MADE AVAILABLE BY THE REMOVAL OF THE EXISTING 'FAPS'. PROVIDE ALL NECESSARY COMPONENTS, TERMINATIONS AND PROGRAMMING FOR A FULLY OPERATIONAL SYSTEM. REPAIR SURFACES TO MATCH ADJACENT.
- 2. EXISTING DEDICATED 120V, 1Ø BRANCH CIRCUIT BREAKER MADE AVAILABLE DURING DEMOLITION TO BE REPLACED PER NFPA 72, 10.6.5.1 AND 10.6.5.2. FIRE ALARM POWER SOURCE CIRCUITS SHALL BE DEDICATED AND INSTALLED USING RED MARKED DISCONNECT WITH LOCK—ON CAPABILITY. CONNECT TO NEW 'FAPS' AND UPDATE RESPECTIVE PANEL SCHEDULE.
- 3. (E) 'FATC' TO BE RE-USED FOR INTERCONNECTION OF FIRE ALARM SYSTEM. PROVIDE ALL NECESSARY COMPONENTS, TERMINATIONS AND PROGRAMMING FOR A FULLY OPERATIONAL SYSTEM. REPAIR SURFACES TO MATCH ADJACENT.REFER TO SITE PLAN AND RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- 4. TYPICAL. USE EXISTING CONDUIT TO PULL—IN NEW CONDUCTORS AS INDICATED ON THESE PLANS AND CONNECT AS REQUIRED TO NEW DEVICES. PROVIDE ALL NECESSARY COMPONENTS AND CONNECT AS REQUIRED FOR A FULLY OPERATIONAL SYSTEM.
- PROVIDE NEW 3/4"C. WITH CONDUCTORS AS INDICATED ON THESE PLANS AND CONNECT TO NEW DEVICES. PROVIDE ALL NECESSARY COMPONENTS AND CONNECT AS REQUIRED FOR A FULLY OPERATIONAL SYSTEM.

#### EXISTING BUILDING CARBON MONOXIDE OMITTED NOTE

CARBON MONOXIDE DETECTION HAS BEEN OMITTED PER DSA'S INTERPRETATION OF CBC 915. <u>EXISTING</u> BUILDINGS SHALL HAVE CO DETECTION INSTALLED IN THE FOLLOWING CIRCUMSTANCES:

1. INSTALLATION OF NEW FUEL—BURNING APPLIANCES IN NEW AND

- EXISTING BUILDINGS.

  2. REPLACEMENT OF EXISTING FUEL—BURNING APPLIANCES IN EXISTING
- BUILDINGS.

  3. REPLACEMENT OF EXISTING FIRE ALARM SYSTEM WHERE CO DETECTION IS CURRENTLY INTEGRATED.

THE REPLACEMENT OF THE FIRE ALARM SYSTEM IN PART OR WHOLE DOES NOT NECESSARILY TRIGGER CO DETECTION REQUIREMENTS BECAUSE CO IS NOT REQUIRED TO BE INTEGRATED WITH THE FIRE ALARM SYSTEM FOR COMPLIANCE. CO DETECTION MAY BE INTEGRATED WITH THE FIRE ALARM SYSTEM AS ONE OPTION FOR COMPLIANCE.

#### **GENERAL NOTES**

- 1. WHERE FIRE ALARM INITIATION DEVICES AND NOTIFICATION DEVICES ARE SHOWN AS NEW (N) THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY HARDWARE (DEVICE, BACKBOX, ¾" CONDUIT, JUNCTION BOXES AND CONDUCTORS AS INDICATED) TO EXTEND THE EXISTING PATHWAYS. SEE "RE-USE OF EXISTING CONDUITS" NOTES ON THIS SHEET FOR ADDITIONAL INFORMATION.
- 2. ALL EXISTING EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., WHERE SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DOCUMENTS AND LIMITED SITE SURVEYS AND ARE SHOWN FOR CLARITY. IT SHALL BE REGARDED AS AN APPROXIMATION ONLY. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. PRIOR TO SUBMITTING BID AND BEFORE START OF ANY ELECTRICAL WORK, CONTRACTOR SHALL VERIFY ON—SITE ALL EXISTING LOCATIONS AND CONDITIONS TO ASCERTAIN ALL WORK REQUIRED.
- 3. WHERE EXISTING WIRING OR EQUIPMENT IS ABANDONED AS A RESULT OF THIS CONTRACT, IT SHALL BE REMOVED INSOFAR AS POSSIBLE. THIS INCLUDES BUT IS NOT LIMITED TO:

  A. REMOVE ALL DEVICES AND FOLIEMENT
  - B. REMOVE ALL DEVICES AND EQUIPMENT.
    C. REMOVE ALL EXPOSED CONDUIT AND CONDUIT IN ACCESSIBLE CONCEALED AREA, AS FAR AS POSSIBLE.
    D. CUT OFF AND CAP ALL ABANDONED CONDUIT. STUBS SHALL NOT BE PROTRUDED ABOVE FLOOR AND/OR FINISHED WALLS AND CEILINGS.
- E. ALL EXISTING CONDUIT IS 3/4"C. UNLESS OTHERWISE
- 5. FIRE ALARM POWER SOURCE CIRCUITS SHALL BE DEDICATED AND INSTALLED PER NFPA 72, 10.6.5.2. USING RED MARKED DISCONNECT WITH LOCK—ON CAPABILITY. COORDINATE WITH ELECTRICAL.
- 6. ALL INTERIOR SPEAKERS SHALL BE SET AT 1/2 WATT UNLESS OTHERWISE NOTED ON THESE PLANS.
- 7. ALL EXTERIOR SPEAKERS SHALL BE SET AT 2 WATT UNLESS

OTHERWISE NOTED ON THESE PLANS.

#### RE-USE OF EXISTING CONDUITS

- A. CONTRACTOR SHALL PROVIDE COST CREDIT TO OWNER FOR ANY EXISTING CONDUIT PATHWAYS THAT ARE APPROVED TO BE REUSED.
- B. THIS SHALL BE DONE ON A PER FOOT BASES AND TYPE AND SIZE OF
- C. EXISTING SURFACE RACEWAYS (WIREMOLD) SHALL NOT BE REUSED, ONLY CONDUIT SHALL BE REUSED AS APPROVED BY OWNER.



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 02-118482 INC:

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DATE: 09/23/2020

PBK

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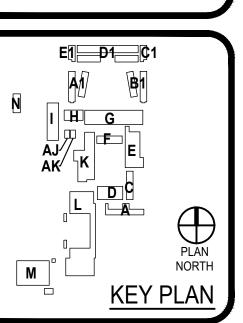
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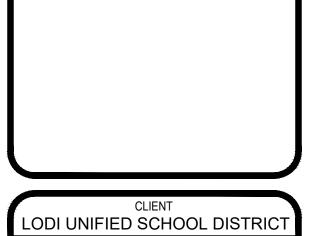
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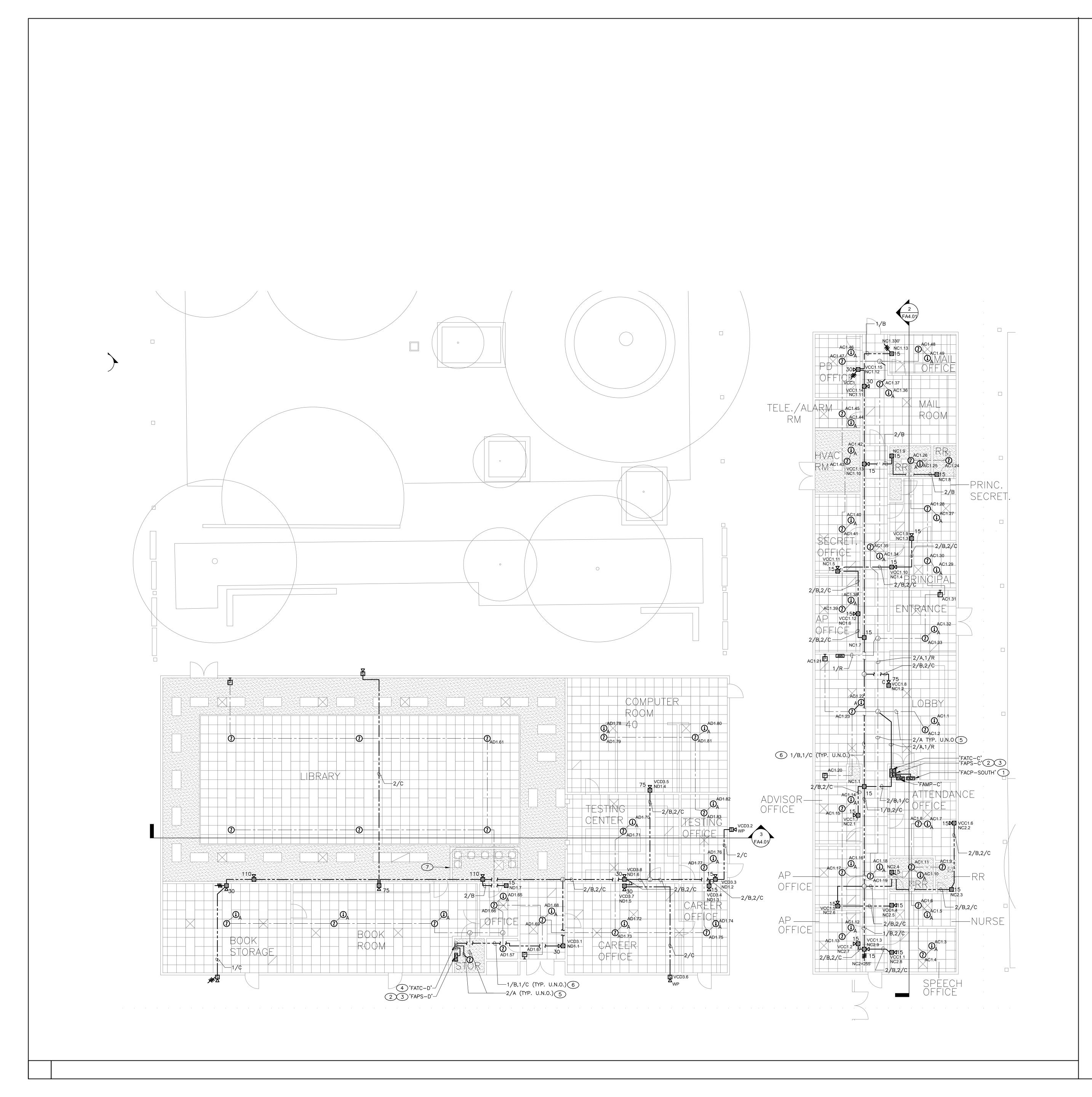






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FIRE ALARM PLAN -BUILDING A



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- 1. INSTALL NEW 'FACP' AND PROVIDE ALL NECESSARY COMPONENTS, TERMINATIONS, AND PROGRAMMING FOR A FULLY OPERATIONAL SYSTEM.
- 2. INSTALL 'FAPS' IN SAME SPACE MADE AVAILABLE BY THE REMOVAL OF THE EXISTING 'FAPS'. PROVIDE ALL NECESSARY COMPONENTS, TERMINATIONS AND PROGRAMMING FOR A FULLY OPERATIONAL SYSTEM. REPAIR SURFACES TO MATCH ADJACENT.
- 3. EXISTING DEDICATED 120V, 1Ø BRANCH CIRCUIT BREAKER MADE AVAILABLE DURING DEMOLITION TO BE REPLACED PER NFPA 72, 10.6.5.1 AND 10.6.5.2. FIRE ALARM POWER SOURCE CIRCUITS SHALL BE DEDICATED AND INSTALLED USING RED MARKED DISCONNECT WITH LOCK—ON CAPABILITY. CONNECT TO NEW 'FAPS' AND UPDATE RESPECTIVE PANEL SCHEDULE.
- 4. (E) 'FATC' TO BE RE-USED FOR INTERCONNECTION OF FIRE ALARM SYSTEM. PROVIDE ALL NECESSARY COMPONENTS, TERMINATIONS AND PROGRAMMING FOR A FULLY OPERATIONAL SYSTEM. REPAIR SURFACES TO MATCH ADJACENT.REFER TO SITE PLAN AND RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- 5. TYPICAL. USE EXISTING CONDUIT TO PULL—IN NEW CONDUCTORS AS INDICATED ON THESE PLANS AND CONNECT AS REQUIRED TO NEW DEVICES. PROVIDE ALL NECESSARY COMPONENTS AND CONNECT AS REQUIRED FOR A FULLY OPERATIONAL SYSTEM.
- 6. PROVIDE NEW 3/4"C. WITH CONDUCTORS AS INDICATED ON THESE PLANS AND CONNECT TO NEW DEVICES. PROVIDE ALL NECESSARY COMPONENTS AND CONNECT AS REQUIRED FOR A FULLY OPERATIONAL SYSTEM.
- 7. EXISTING LIBRARY "CHECK—OUT" COUNTER. COUNTER HEIGHT DOES NOT EXCEED 48" ABOVE FINISHED FLOOR.

#### EXISTING BUILDING CARBON MONOXIDE OMITTED NOTE

CARBON MONOXIDE DETECTION HAS BEEN OMITTED PER DSA'S INTERPRETATION OF CBC 915. EXISTING BUILDINGS SHALL HAVE CO DETECTION INSTALLED IN THE FOLLOWING CIRCUMSTANCES:

1. INSTALLATION OF NEW FUEL—BURNING APPLIANCES IN NEW AND

- EXISTING BUILDINGS.

  2. REPLACEMENT OF EXISTING FUEL—BURNING APPLIANCES IN EXISTING
- 3. REPLACEMENT OF EXISTING FIRE ALARM SYSTEM WHERE CO DETECTION IS CURRENTLY INTEGRATED.

THE REPLACEMENT OF THE FIRE ALARM SYSTEM IN PART OR WHOLE DOES NOT NECESSARILY TRIGGER CO DETECTION REQUIREMENTS BECAUSE CO IS NOT REQUIRED TO BE INTEGRATED WITH THE FIRE ALARM SYSTEM FOR COMPLIANCE. CO DETECTION MAY BE INTEGRATED WITH THE FIRE ALARM SYSTEM AS ONE OPTION FOR COMPLIANCE.

#### **GENERAL NOTES**

- 1. WHERE FIRE ALARM INITIATION DEVICES AND NOTIFICATION DEVICES ARE SHOWN AS NEW (N) THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY HARDWARE (DEVICE, BACKBOX, ¾" CONDUIT, JUNCTION BOXES AND CONDUCTORS AS INDICATED) TO EXTEND THE EXISTING PATHWAYS. SEE "RE—USE OF EXISTING CONDUITS" NOTES ON THIS SHEET FOR ADDITIONAL INFORMATION.
- 2. ALL EXISTING EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., WHERE SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DOCUMENTS AND LIMITED SITE SURVEYS AND ARE SHOWN FOR CLARITY. IT SHALL BE REGARDED AS AN APPROXIMATION ONLY. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. PRIOR TO SUBMITTING BID AND BEFORE START OF ANY ELECTRICAL WORK, CONTRACTOR SHALL VERIFY ON—SITE ALL EXISTING LOCATIONS AND CONDITIONS TO ASCERTAIN ALL WORK REQUIRED.
- 3. WHERE EXISTING WIRING OR EQUIPMENT IS ABANDONED AS A RESULT OF THIS CONTRACT, IT SHALL BE REMOVED INSOFAR AS POSSIBLE. THIS INCLUDES BUT IS NOT LIMITED TO:

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- B. REMOVE ALL DEVICES AND EQUIPMENT.
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  D. CUT OFF AND CAP ALL ABANDONED CONDUIT. STUBS SHALL NOT BE PROTRUDED ABOVE FLOOR AND/OR FINISHED WALLS AND CEILINGS.
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#### RE-USE OF EXISTING CONDUITS

- A. CONTRACTOR SHALL PROVIDE COST CREDIT TO OWNER FOR ANY EXISTING CONDUIT PATHWAYS THAT ARE APPROVED TO BE REUSED.
- B. THIS SHALL BE DONE ON A PER FOOT BASES AND TYPE AND SIZE OF CONDUIT.
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IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

APP: 02-118482 INC:

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SACRAMENTO
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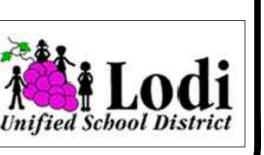
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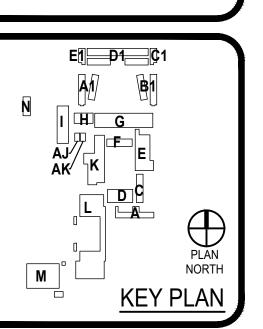
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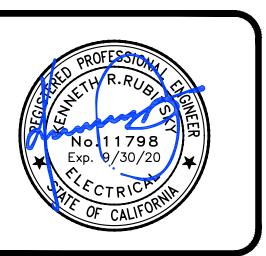
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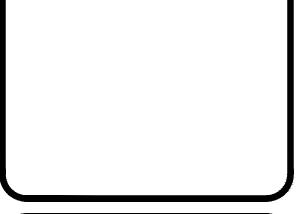
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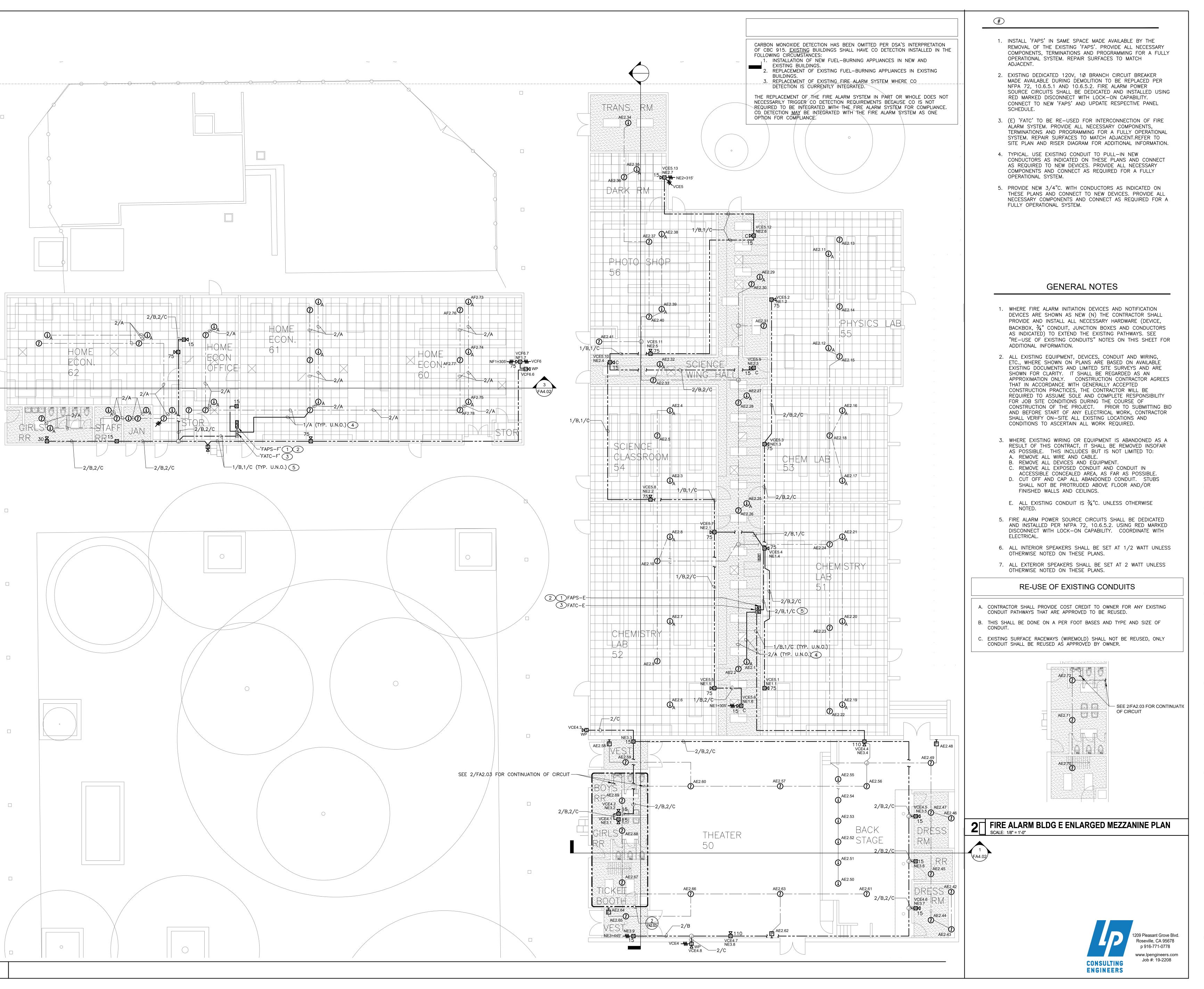
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19465

DATE JULY 24, 2020

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FIRE ALARM PLAN \_BUILDING C & D

CONSTRUCTION DOCUMENTS



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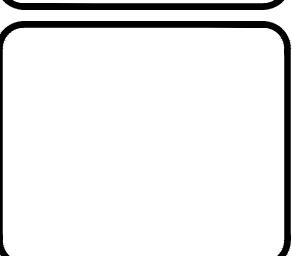
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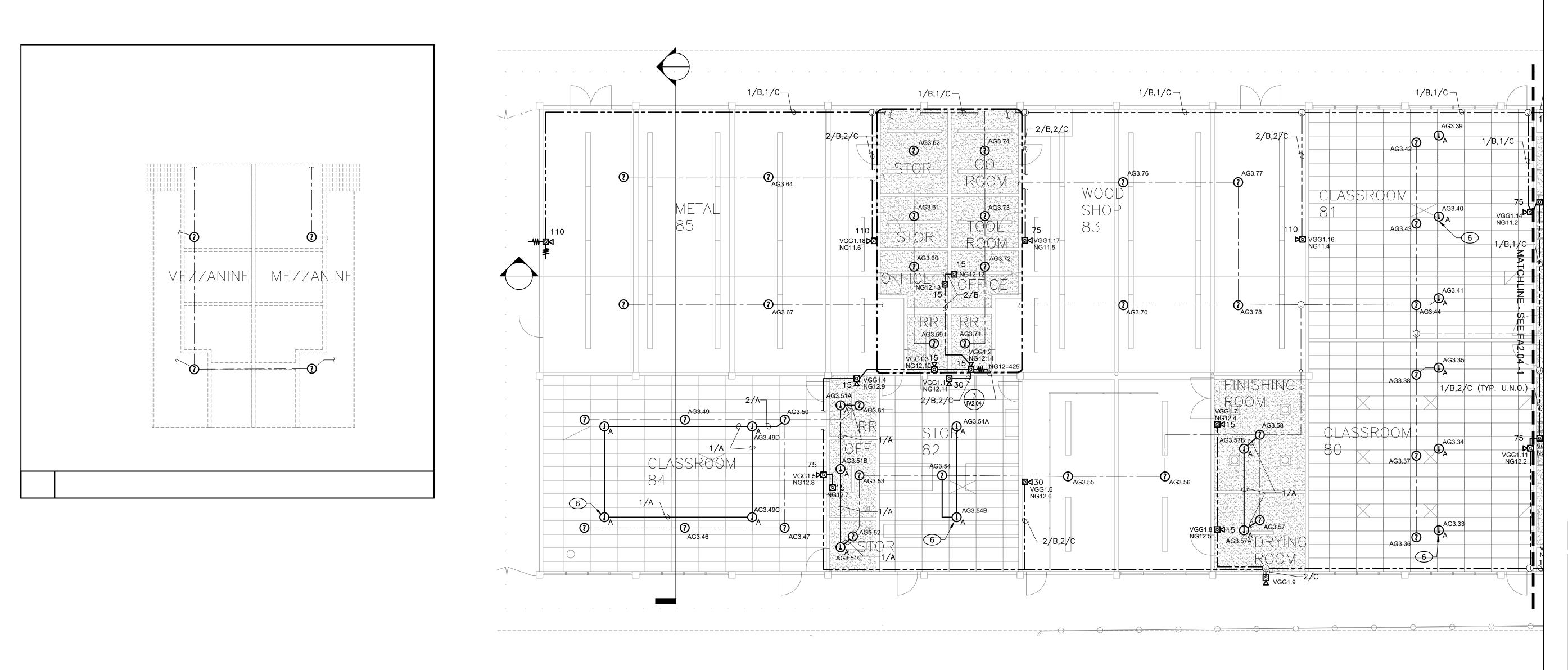


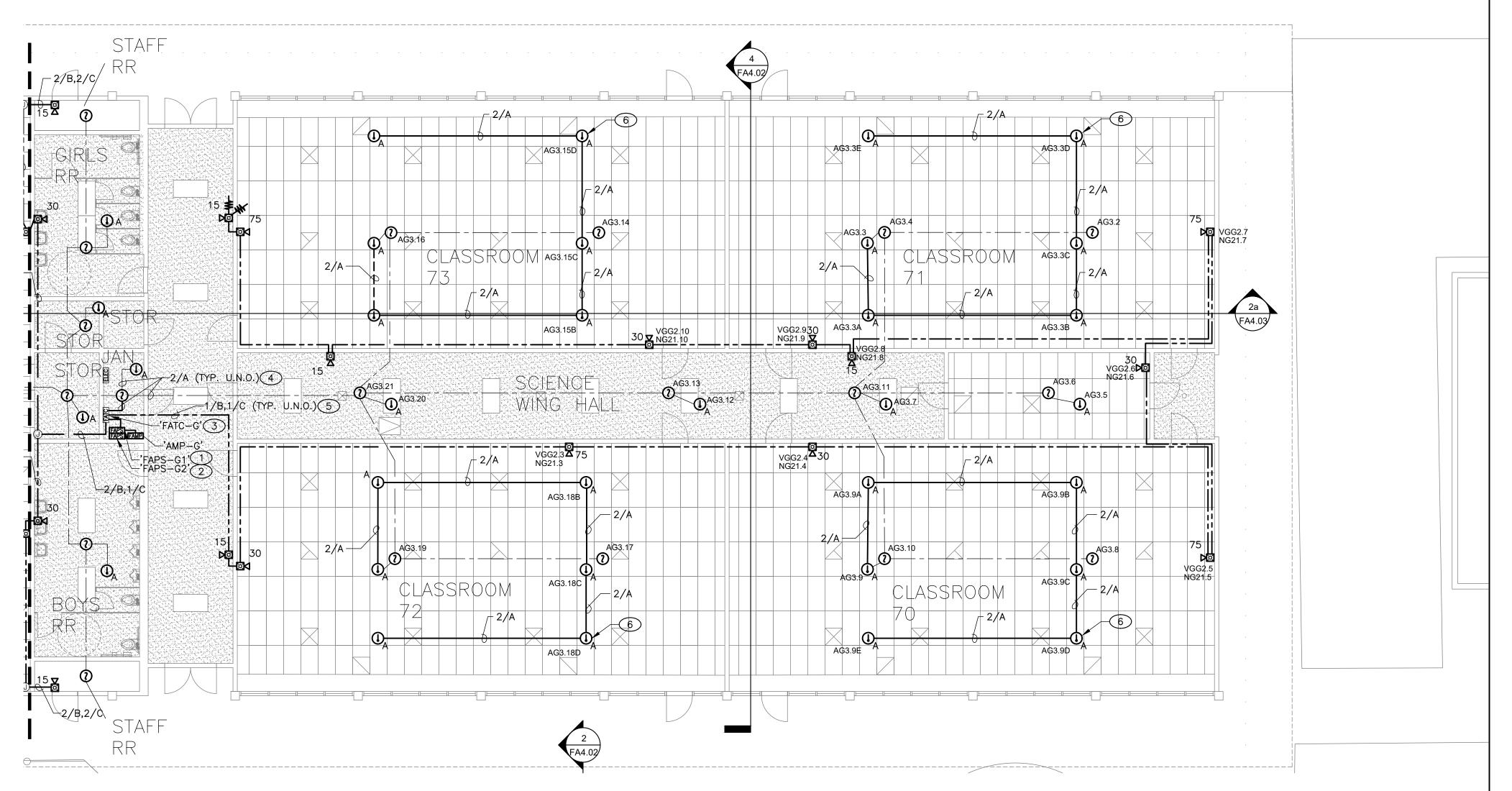
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CONSTRUCTION DOCUMENTS

FIRE ALARM PLAN
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- 3. (E) 'FATC' TO BE RE-USED FOR INTERCONNECTION OF FIRE ALARM SYSTEM. PROVIDE ALL NECESSARY COMPONENTS, TERMINATIONS AND PROGRAMMING FOR A FULLY OPERATIONAL SYSTEM. REPAIR SURFACES TO MATCH ADJACENT.REFER TO SITE PLAN AND RISER DIAGRAM FOR ADDITIONAL INFORMATION.
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- 5. PROVIDE NEW 3/4"C. WITH CONDUCTORS AS INDICATED ON THESE PLANS AND CONNECT TO NEW DEVICES. PROVIDE ALL NECESSARY COMPONENTS AND CONNECT AS REQUIRED FOR A FULLY OPERATIONAL SYSTEM.
- 6. TYPICAL. LOCATION HEAT DETECTOR IS ON BOTTOM OF BEAM LOCATED ABOVE FINISHED CEILING. BEAM IS GREATER THAN 4" IN DEPTH. DEPTH/HIEGHT IS LESS THAN 10% AND SPACING/HIEGHT IS LESS THAN 40% THEREFORE ABOVE CEILING HEAT DETECTORS SPACING IS REDUCED BY 2/3.

#### **EXISTING BUILDING CARBON MONOXIDE OMITTED NOTE**

CARBON MONOXIDE DETECTION HAS BEEN OMITTED PER DSA'S INTERPRETATION OF CBC 915. <u>EXISTING</u> BUILDINGS SHALL HAVE CO DETECTION INSTALLED IN THE FOLLOWING CIRCUMSTANCES:

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- 3. REPLACEMENT OF EXISTING FIRE ALARM SYSTEM WHERE CO DETECTION IS CURRENTLY INTEGRATED.

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#### RE-USE OF EXISTING CONDUITS

- A. CONTRACTOR SHALL PROVIDE COST CREDIT TO OWNER FOR ANY EXISTING CONDUIT PATHWAYS THAT ARE APPROVED TO BE REUSED.
- B. THIS SHALL BE DONE ON A PER FOOT BASES AND TYPE AND SIZE OF CONDUIT.
- C. EXISTING SURFACE RACEWAYS (WIREMOLD) SHALL NOT BE REUSED, ONLY CONDUIT SHALL BE REUSED AS APPROVED BY OWNER.

#### GENERAL NOTES

- 1. WHERE FIRE ALARM INITIATION DEVICES AND NOTIFICATION DEVICES ARE SHOWN AS NEW (N) THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY HARDWARE (DEVICE, BACKBOX, ¾" CONDUIT, JUNCTION BOXES AND CONDUCTORS AS INDICATED) TO EXTEND THE EXISTING PATHWAYS. SEE "RE-USE OF EXISTING CONDUITS" NOTES ON THIS SHEET FOR ADDITIONAL INFORMATION.
- 2. ALL EXISTING EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., WHERE SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DOCUMENTS AND LIMITED SITE SURVEYS AND ARE SHOWN FOR CLARITY. IT SHALL BE REGARDED AS AN APPROXIMATION ONLY. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. PRIOR TO SUBMITTING BID AND BEFORE START OF ANY ELECTRICAL WORK, CONTRACTOR SHALL VERIFY ON—SITE ALL EXISTING LOCATIONS AND CONDITIONS TO ASCERTAIN ALL WORK REQUIRED.
- 3. WHERE EXISTING WIRING OR EQUIPMENT IS ABANDONED AS A RESULT OF THIS CONTRACT, IT SHALL BE REMOVED INSOFAR AS POSSIBLE. THIS INCLUDES BUT IS NOT LIMITED TO:
  A. REMOVE ALL WIRE AND CABLE.
  B. REMOVE ALL DEVICES AND EQUIPMENT.
- C. REMOVE ALL EXPOSED CONDUIT AND CONDUIT IN ACCESSIBLE CONCEALED AREA, AS FAR AS POSSIBLE.
  D. CUT OFF AND CAP ALL ABANDONED CONDUIT. STUBS SHALL NOT BE PROTRUDED ABOVE FLOOR AND/OR FINISHED WALLS AND CEILINGS.
- E. ALL EXISTING CONDUIT IS 3/4"C. UNLESS OTHERWISE
- 5. FIRE ALARM POWER SOURCE CIRCUITS SHALL BE DEDICATED AND INSTALLED PER NFPA 72, 10.6.5.2. USING RED MARKED DISCONNECT WITH LOCK—ON CAPABILITY. COORDINATE WITH
- 6. ALL INTERIOR SPEAKERS SHALL BE SET AT 1/2 WATT UNLESS OTHERWISE NOTED ON THESE PLANS.
- 7. ALL EXTERIOR SPEAKERS SHALL BE SET AT 2 WATT UNLESS OTHERWISE NOTED ON THESE PLANS.



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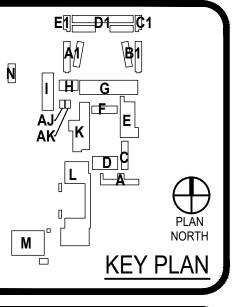
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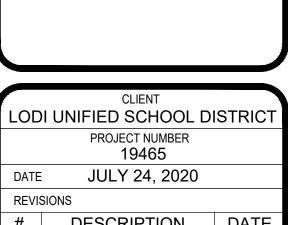
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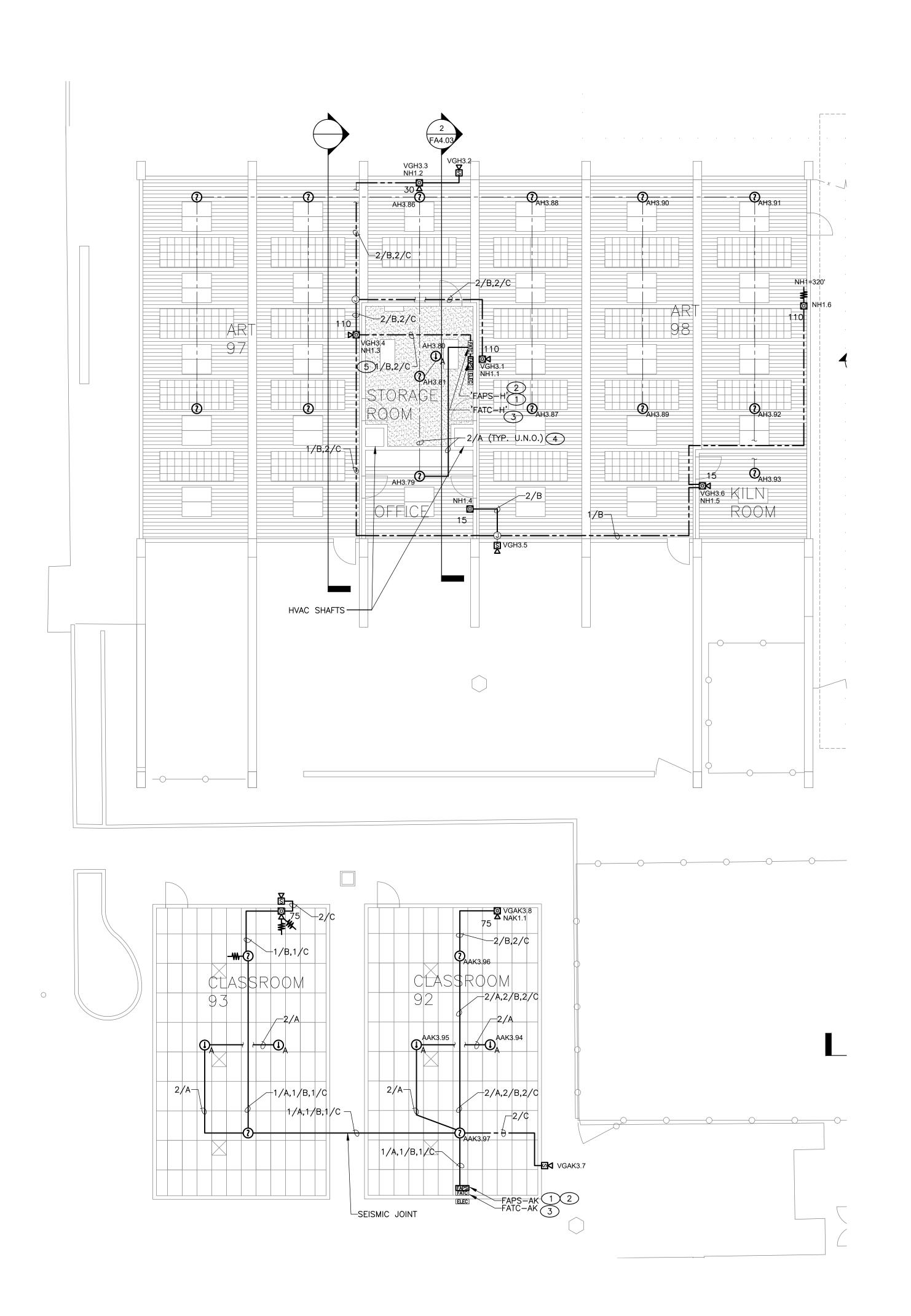


REVISIONS

# DESCRIPTION DATE

CONSTRUCTION DOCUMENTS

FIRE ALARM PLAN - BUILDING G



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  D. CUT OFF AND CAP ALL ABANDONED CONDUIT. STUBS SHALL NOT BE PROTRUDED ABOVE FLOOR AND/OR FINISHED WALLS AND CEILINGS.
- E. ALL EXISTING CONDUIT IS 34"C. UNLESS OTHERWISE
- 5. FIRE ALARM POWER SOURCE CIRCUITS SHALL BE DEDICATED AND INSTALLED PER NFPA 72, 10.6.5.2. USING RED MARKED DISCONNECT WITH LOCK—ON CAPABILITY. COORDINATE WITH FLECTRICAL
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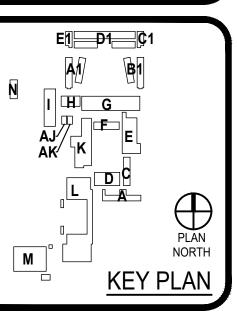
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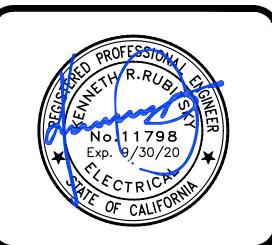
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ALARM UPGRADE

LODI HIGH SCHOOL
CAMPUS WIDE FIRE AL
3 South Pacific Avenue
Lodi, CA 95242







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PROJECT NUMBER					
19465					
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CONSTRUCTION DOCUMENTS

FIRE ALARM PLAN BUILDING H, AJ, & AK



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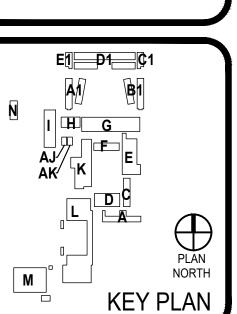
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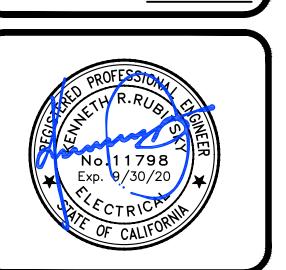
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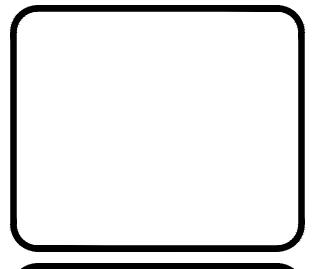
ALARM UPGRADE

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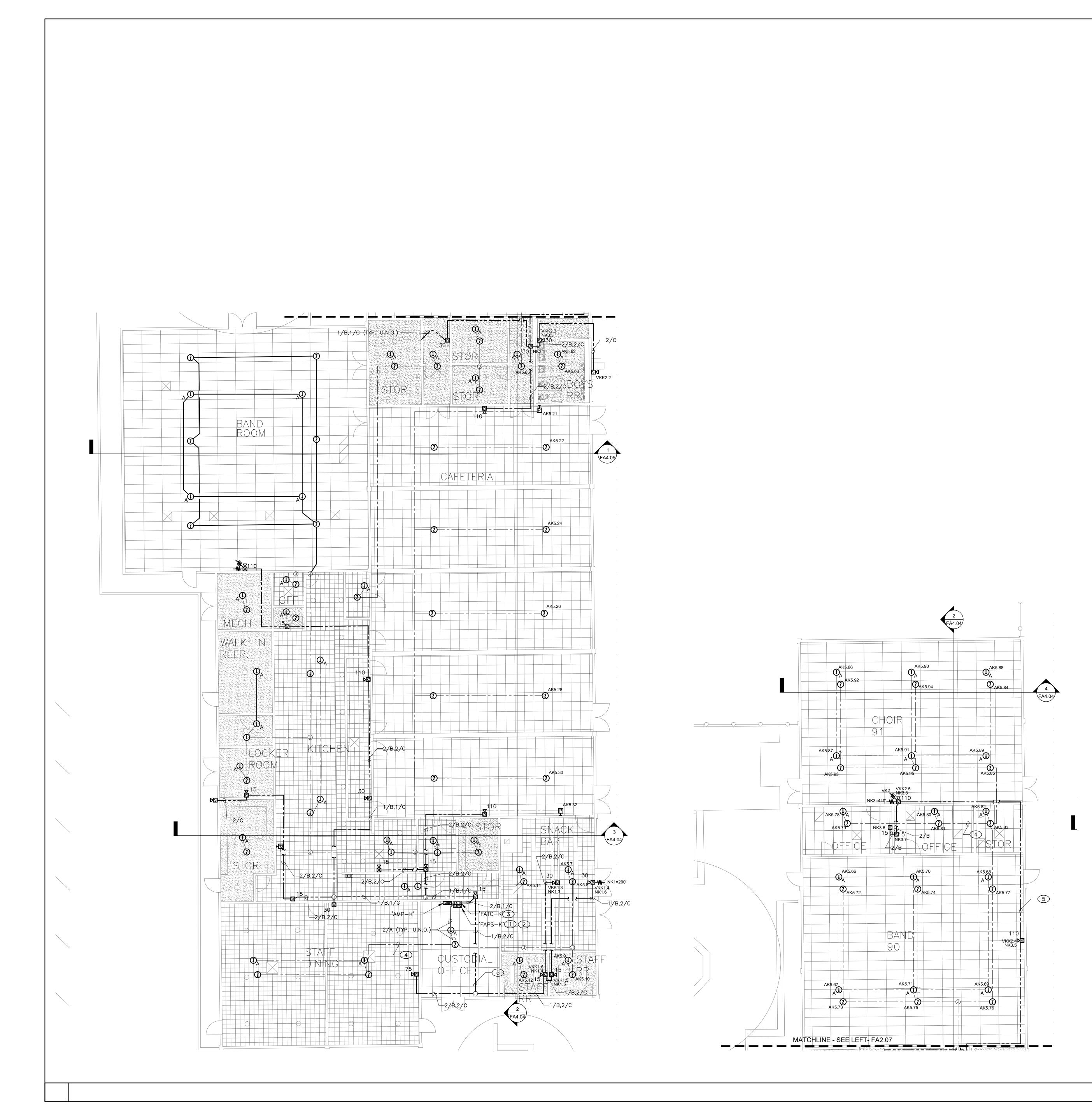








FIRE ALARM PLAN _BUILDING I			
CONSTRUCTION DOCUMENTS			
# DESCRIPTION DATE			
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REVISIONS			
DATE JULY 24, 2020			
PROJECT NUMBER 19465			
LODI UNIFIED SCHOOL DISTRICT			
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#### (#)

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 02-118482 INC:

REVIEWED FOR
SS FLS ACS DATE: 09/23/2020

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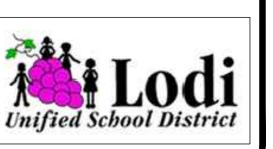
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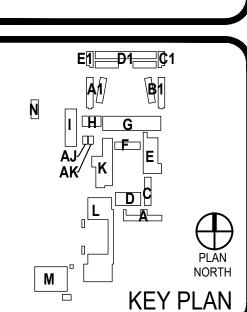
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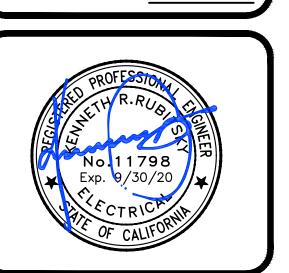
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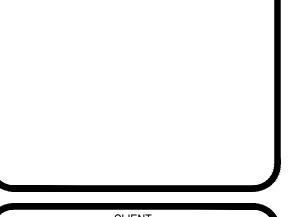
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LODI UNIFIED SCHOOL DISTRICT

PROJECT NUMBER
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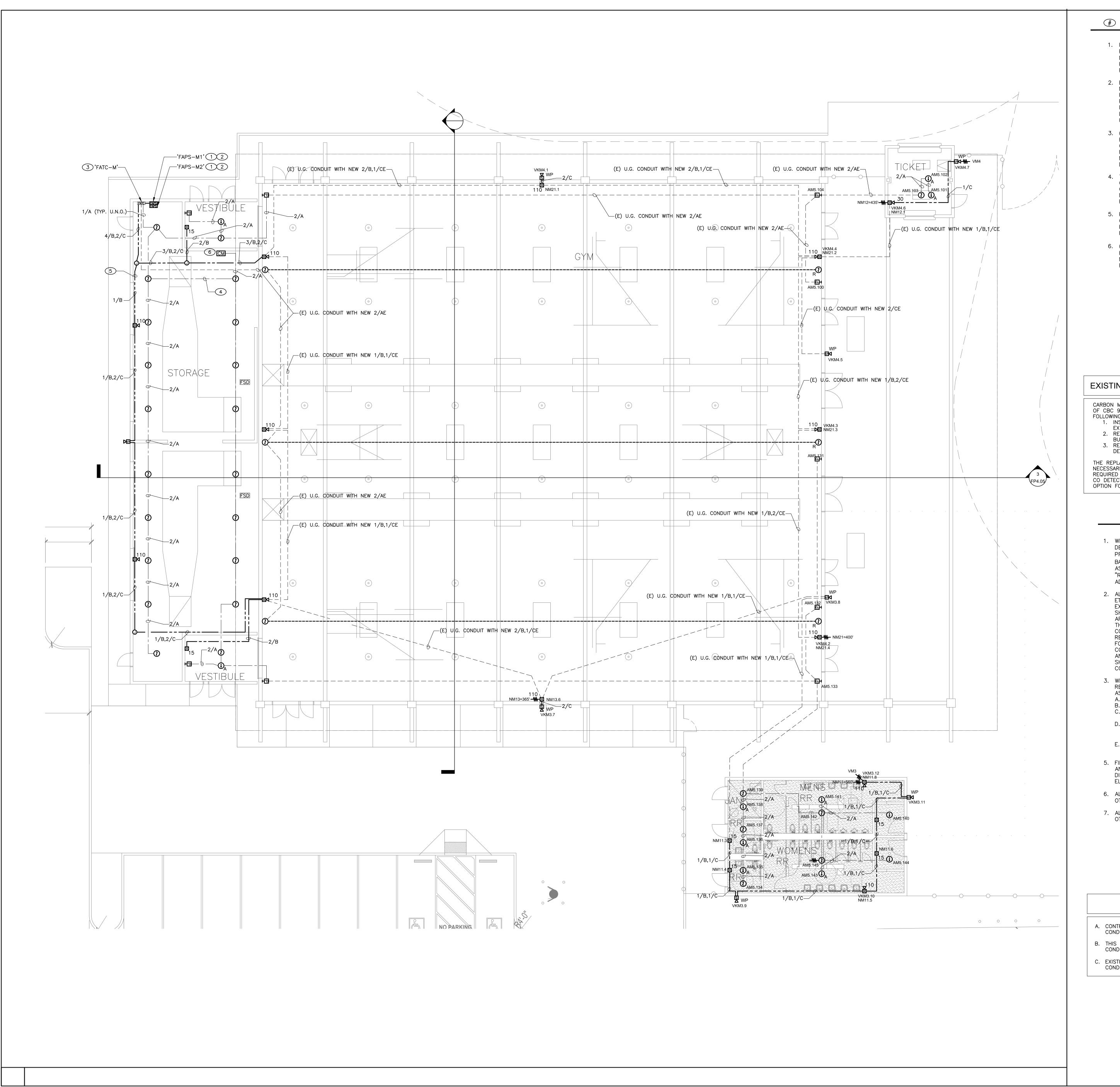
DATE JULY 24, 2020

REVISIONS

# DESCRIPTION DATE

FIRE ALARM
PLAN - BUILDING

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- 4. TYPICAL. USE EXISTING CONDUIT TO PULL—IN NEW CONDUCTORS AS INDICATED ON THESE PLANS AND CONNECT AS REQUIRED TO NEW DEVICES. PROVIDE ALL NECESSARY COMPONENTS AND CONNECT AS REQUIRED FOR A FULLY OPERATIONAL SYSTEM.
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- 6. (E) FIRE/SMOKE DAMPER CONTROL MODULE TO BE REPLACED WITH A NEW FIRE/SMOKE DAMPER CONTROL MODULE AND RECONNECTED AS REQUIRED FOR A FULLY FUNCTIONING SYSTEM.

#### EXISTING BUILDING CARBON MONOXIDE OMITTED NOTE

CARBON MONOXIDE DETECTION HAS BEEN OMITTED PER DSA'S INTERPRETATION OF CBC 915. EXISTING BUILDINGS SHALL HAVE CO DETECTION INSTALLED IN THE FOLLOWING CIRCUMSTANCES:

1. INSTALLATION OF NEW FUEL—BURNING APPLIANCES IN NEW AND

- EXISTING BUILDINGS.
  2. REPLACEMENT OF EXISTING FUEL—BURNING APPLIANCES IN EXISTING
- 3. REPLACEMENT OF EXISTING FIRE ALARM SYSTEM WHERE CO DETECTION IS CURRENTLY INTEGRATED.

THE REPLACEMENT OF THE FIRE ALARM SYSTEM IN PART OR WHOLE DOES NOT NECESSARILY TRIGGER CO DETECTION REQUIREMENTS BECAUSE CO IS NOT REQUIRED TO BE INTEGRATED WITH THE FIRE ALARM SYSTEM FOR COMPLIANCE. CO DETECTION MAY BE INTEGRATED WITH THE FIRE ALARM SYSTEM AS ONE OPTION FOR COMPLIANCE.

#### **GENERAL NOTES**

- 1. WHERE FIRE ALARM INITIATION DEVICES AND NOTIFICATION DEVICES ARE SHOWN AS NEW (N) THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY HARDWARE (DEVICE, BACKBOX, ¾" CONDUIT, JUNCTION BOXES AND CONDUCTORS AS INDICATED) TO EXTEND THE EXISTING PATHWAYS. SEE "RE—USE OF EXISTING CONDUITS" NOTES ON THIS SHEET FOR ADDITIONAL INFORMATION.
- 2. ALL EXISTING EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., WHERE SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DOCUMENTS AND LIMITED SITE SURVEYS AND ARE SHOWN FOR CLARITY. IT SHALL BE REGARDED AS AN APPROXIMATION ONLY. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. PRIOR TO SUBMITTING BID AND BEFORE START OF ANY ELECTRICAL WORK, CONTRACTOR SHALL VERIFY ON—SITE ALL EXISTING LOCATIONS AND CONDITIONS TO ASCERTAIN ALL WORK REQUIRED.
- 3. WHERE EXISTING WIRING OR EQUIPMENT IS ABANDONED AS A RESULT OF THIS CONTRACT, IT SHALL BE REMOVED INSOFAR AS POSSIBLE. THIS INCLUDES BUT IS NOT LIMITED TO: A. REMOVE ALL WIRE AND CABLE. B. REMOVE ALL DEVICES AND EQUIPMENT.
- C. REMOVE ALL EXPOSED CONDUIT AND CONDUIT IN ACCESSIBLE CONCEALED AREA, AS FAR AS POSSIBLE.
  D. CUT OFF AND CAP ALL ABANDONED CONDUIT. STUBS SHALL NOT BE PROTRUDED ABOVE FLOOR AND/OR FINISHED WALLS AND CEILINGS.
- FINISHED WALLS AND CEILINGS.

  E. ALL EXISTING CONDUIT IS 3/4"C. UNLESS OTHERWISE NOTED.
- 5. FIRE ALARM POWER SOURCE CIRCUITS SHALL BE DEDICATED AND INSTALLED PER NFPA 72, 10.6.5.2. USING RED MARKED DISCONNECT WITH LOCK—ON CAPABILITY. COORDINATE WITH ELECTRICAL.
- 6. ALL INTERIOR SPEAKERS SHALL BE SET AT 1/2 WATT UNLESS OTHERWISE NOTED ON THESE PLANS.
- 7. ALL EXTERIOR SPEAKERS SHALL BE SET AT 2 WATT UNLESS OTHERWISE NOTED ON THESE PLANS.

#### RE-USE OF EXISTING CONDUITS

- A. CONTRACTOR SHALL PROVIDE COST CREDIT TO OWNER FOR ANY EXISTING CONDUIT PATHWAYS THAT ARE APPROVED TO BE REUSED.
- B. THIS SHALL BE DONE ON A PER FOOT BASES AND TYPE AND SIZE OF
- C. EXISTING SURFACE RACEWAYS (WIREMOLD) SHALL NOT BE REUSED, ONLY CONDUIT SHALL BE REUSED AS APPROVED BY OWNER.



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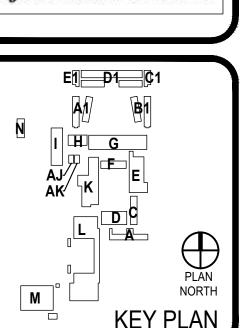
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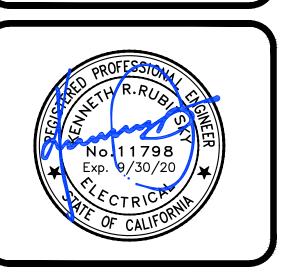
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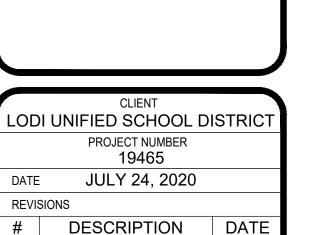
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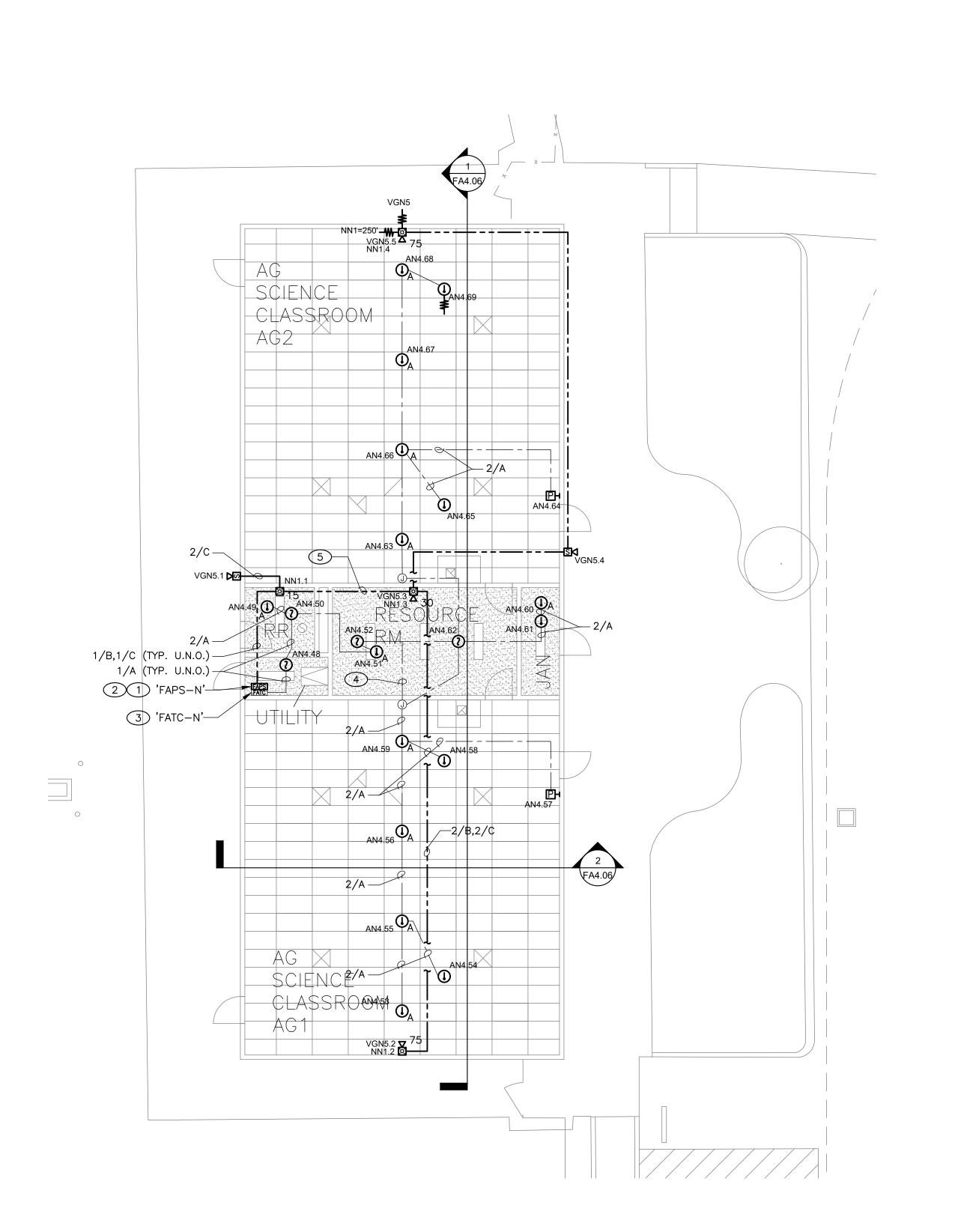




CONSTRUCTION DOCUMENTS

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- 1. IINSTALL 'FAPS' IN SAME SPACE MADE AVAILABLE BY THE REMOVAL OF THE EXISTING 'FAPS'. PROVIDE ALL NECESSARY COMPONENTS, TERMINATIONS AND PROGRAMMING FOR A FULLY OPERATIONAL SYSTEM. REPAIR SURFACES TO MATCH ADJACENT.
- 2. EXISTING DEDICATED 120V, 1Ø BRANCH CIRCUIT BREAKER MADE AVAILABLE DURING DEMOLITION TO BE REPLACED PER NFPA 72, 10.6.5.1 AND 10.6.5.2. FIRE ALARM POWER SOURCE CIRCUITS SHALL BE DEDICATED AND INSTALLED USING RED MARKED DISCONNECT WITH LOCK—ON CAPABILITY. CONNECT TO NEW 'FAPS' AND UPDATE RESPECTIVE PANEL SCHEDULE.
- 3. (E) 'FATC' TO BE RE-USED FOR INTERCONNECTION OF FIRE ALARM SYSTEM. PROVIDE ALL NECESSARY COMPONENTS, TERMINATIONS AND PROGRAMMING FOR A FULLY OPERATIONAL SYSTEM. REPAIR SURFACES TO MATCH ADJACENT.REFER TO SITE PLAN AND RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- 4. TYPICAL. USE EXISTING CONDUIT TO PULL—IN NEW CONDUCTORS AS INDICATED ON THESE PLANS AND CONNECT AS REQUIRED TO NEW DEVICES. PROVIDE ALL NECESSARY COMPONENTS AND CONNECT AS REQUIRED FOR A FULLY OPERATIONAL SYSTEM.
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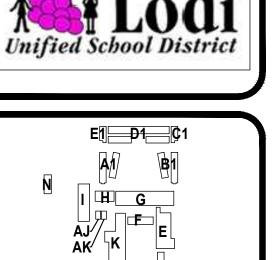
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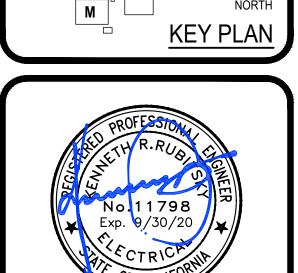
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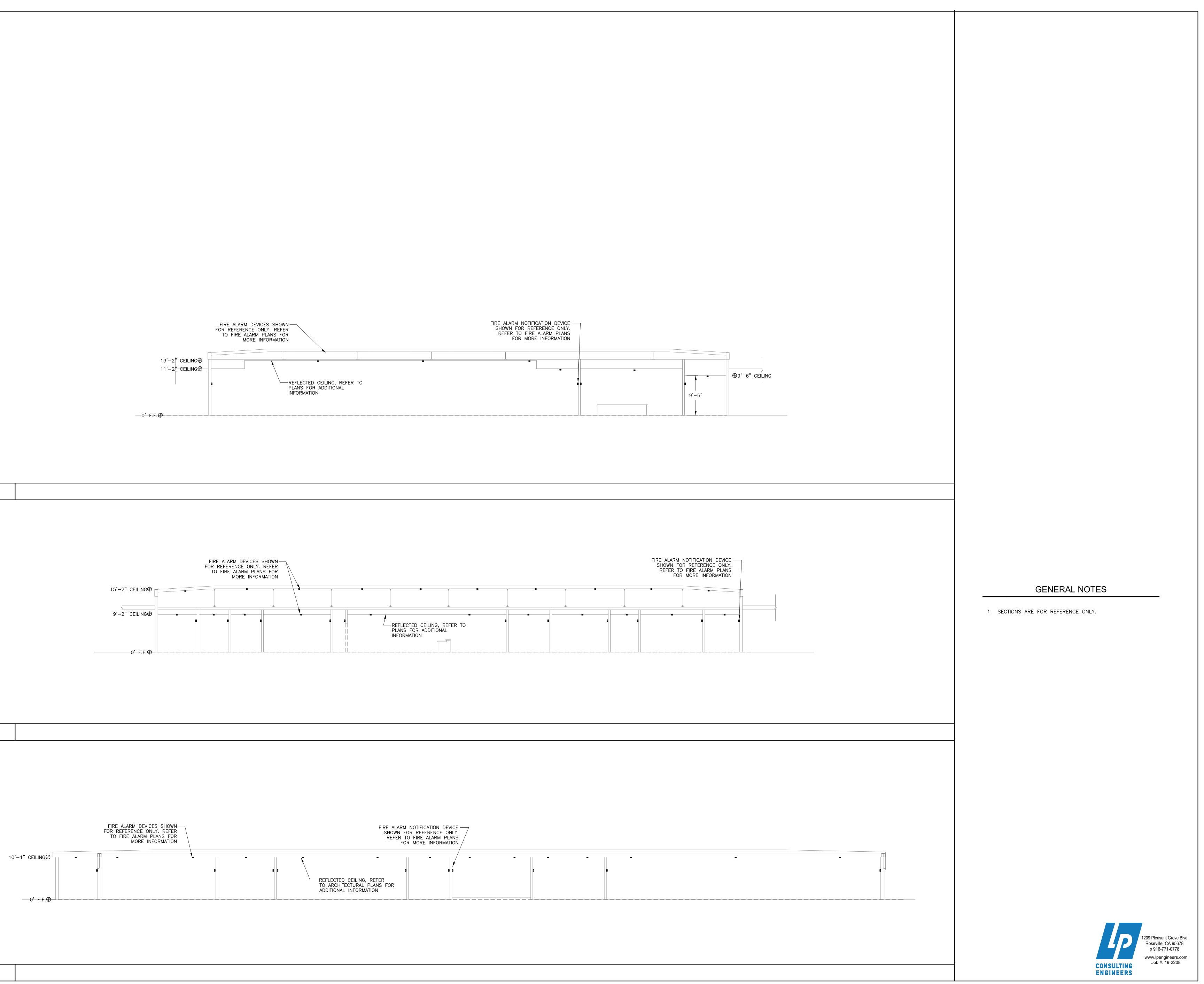






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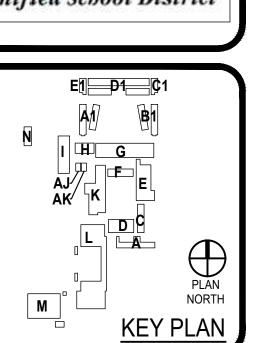
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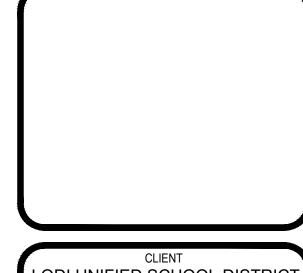
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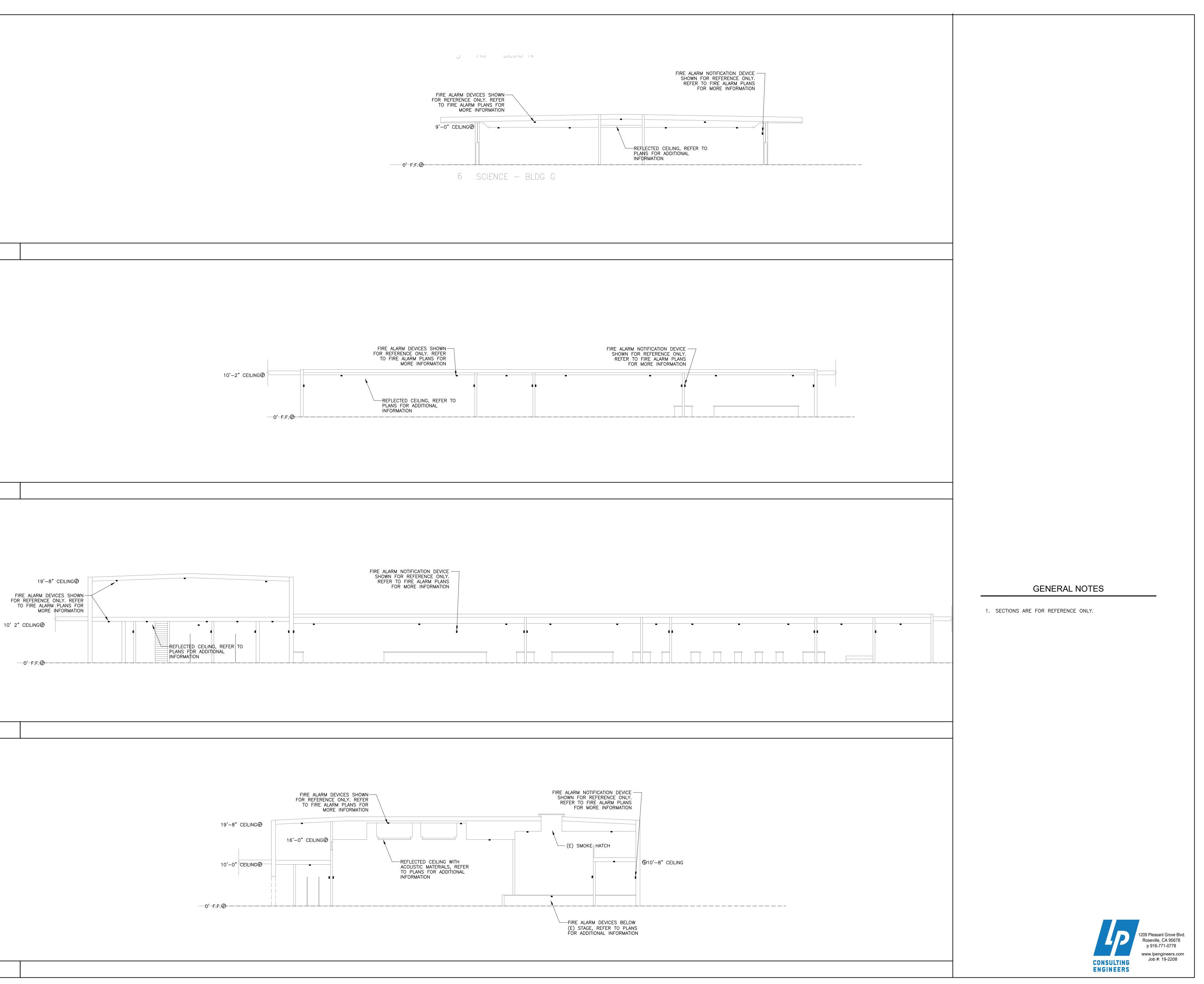
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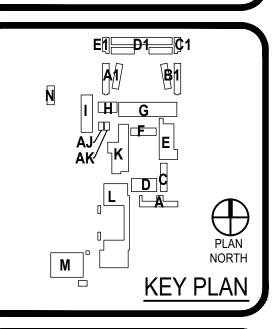
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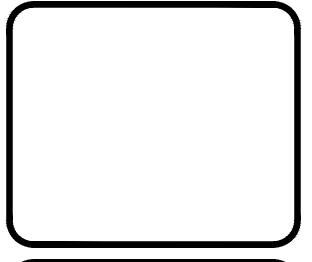
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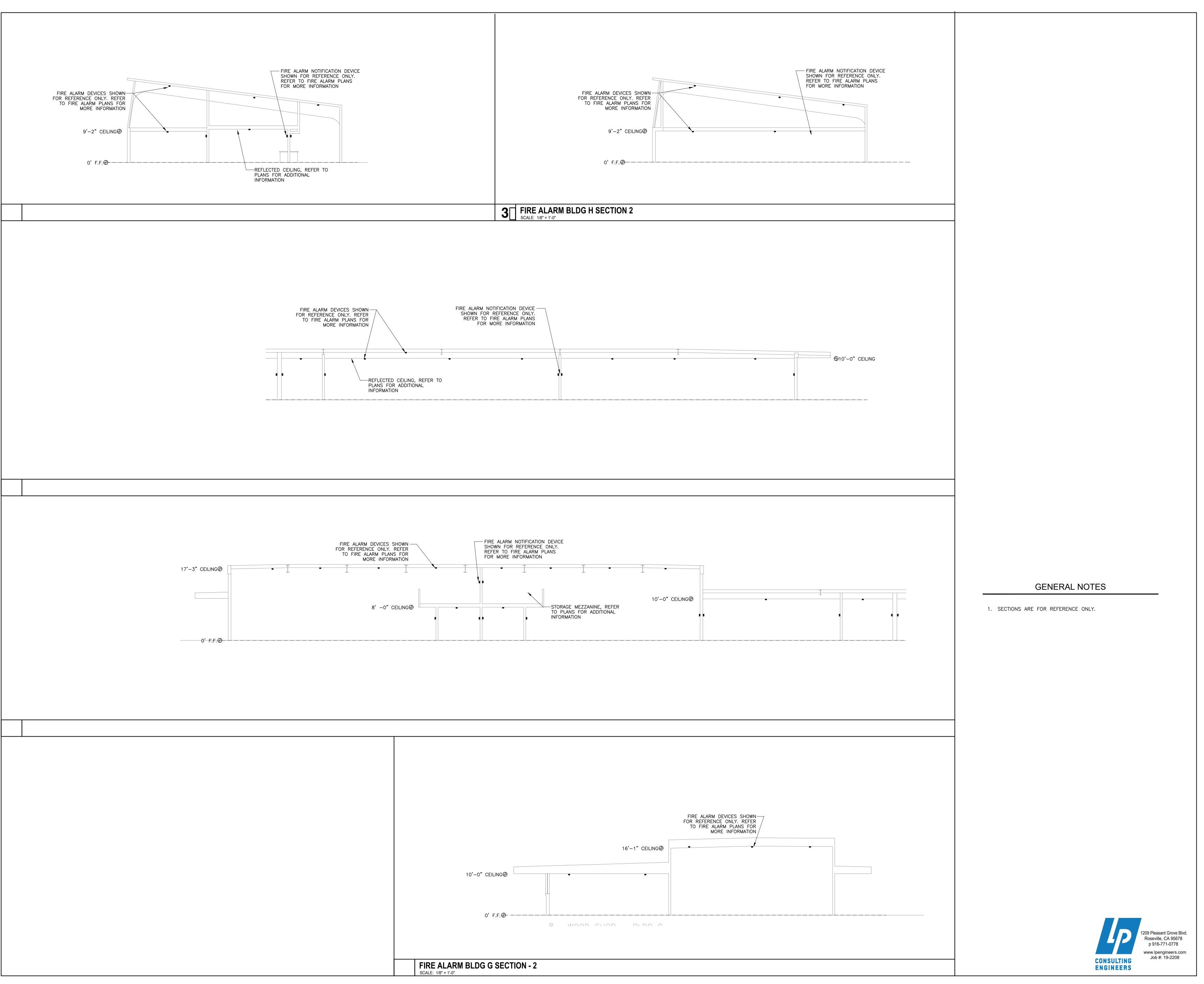






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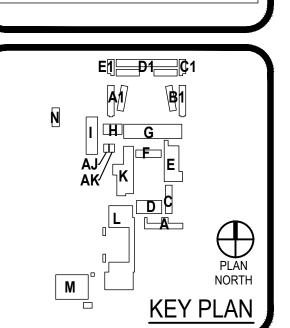
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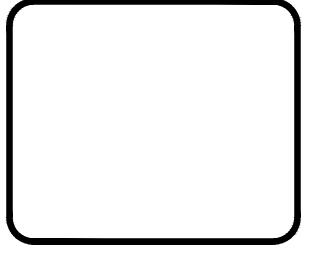
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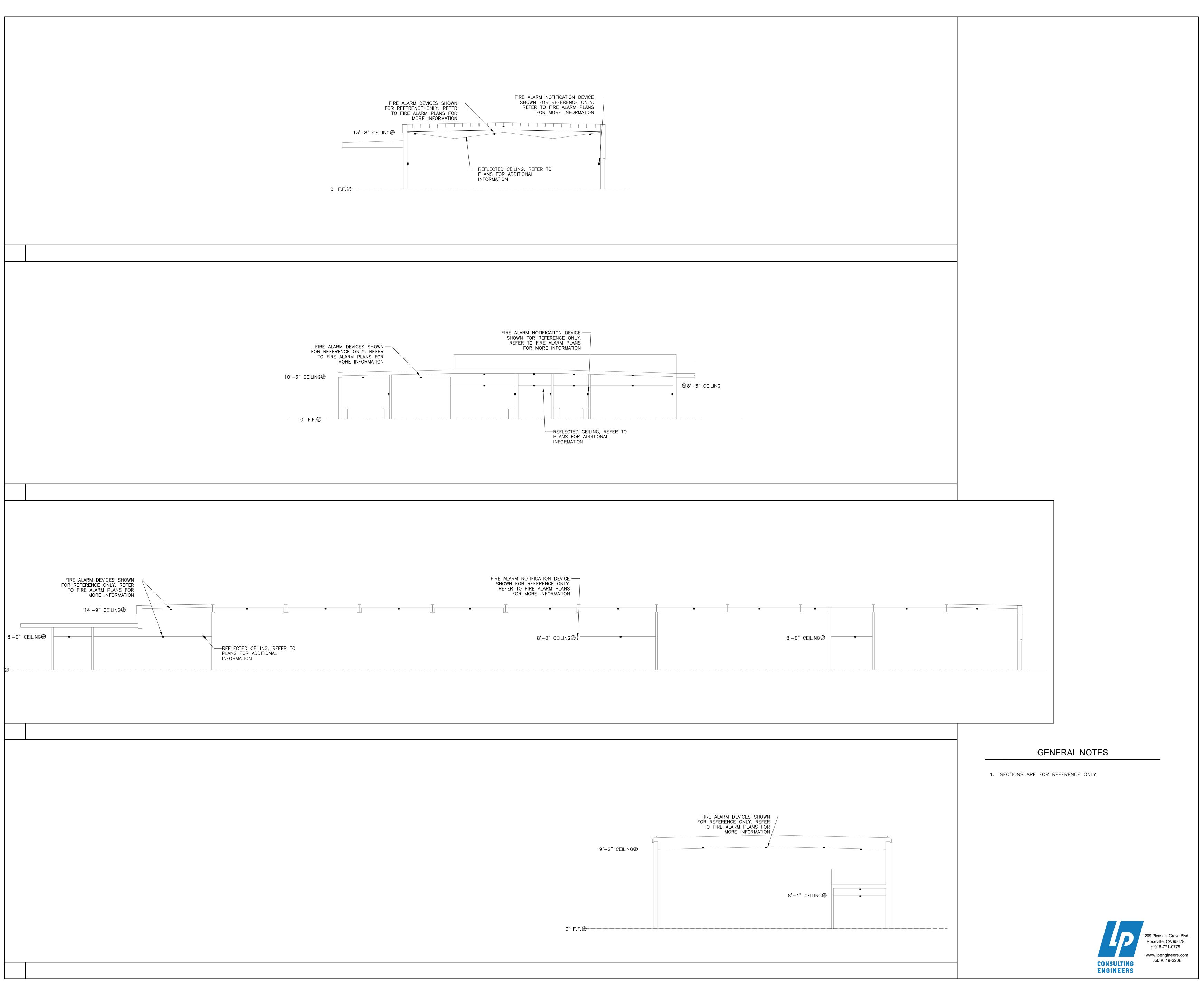






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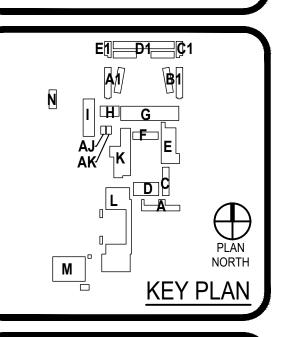
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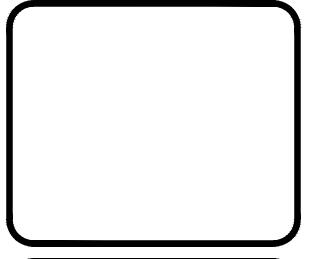
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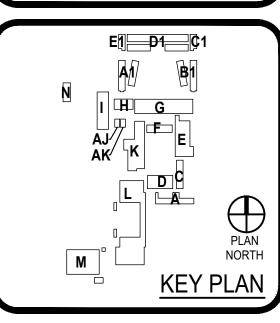
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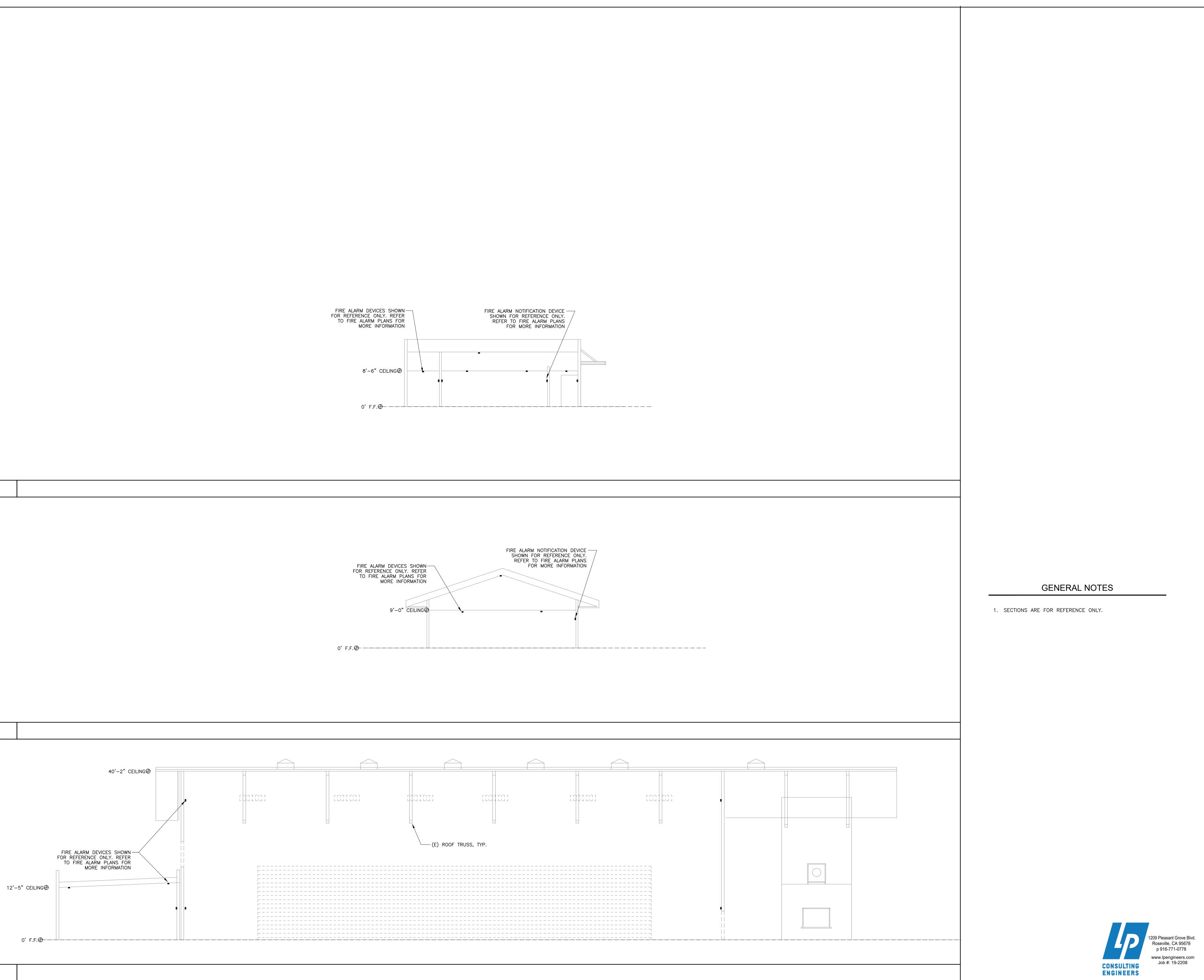
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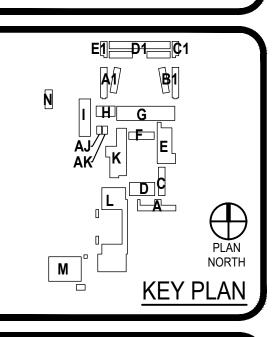
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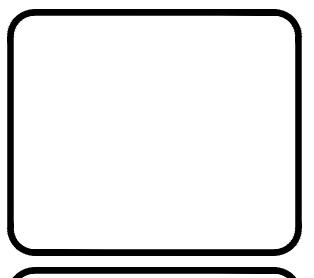
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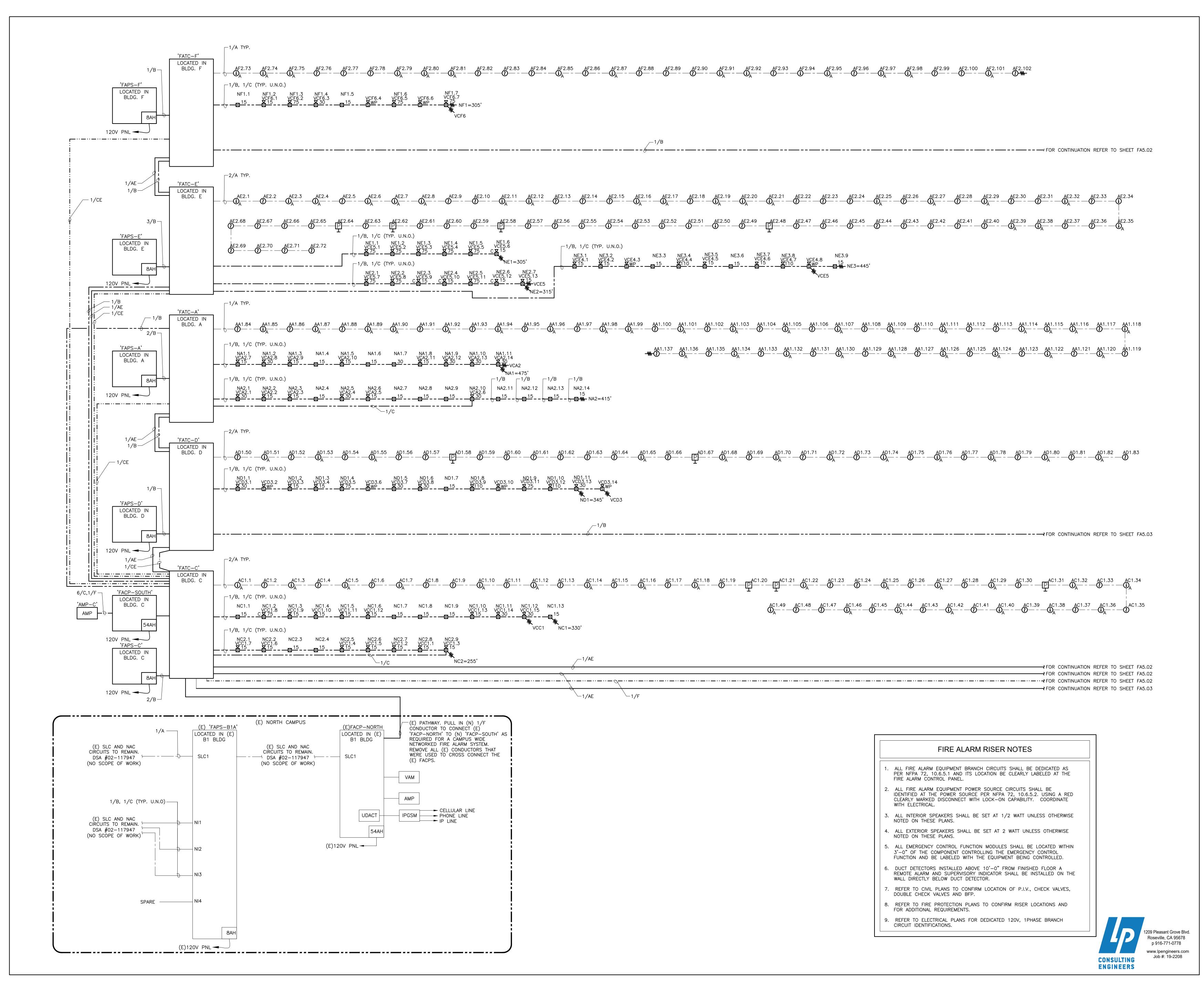


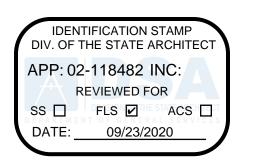




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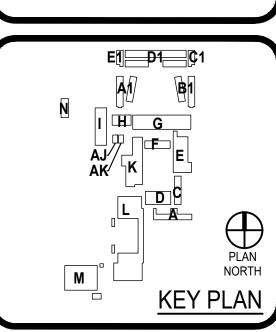
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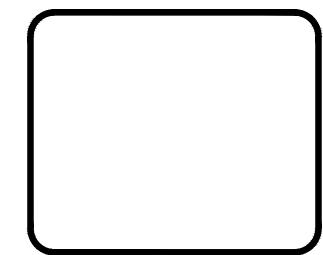
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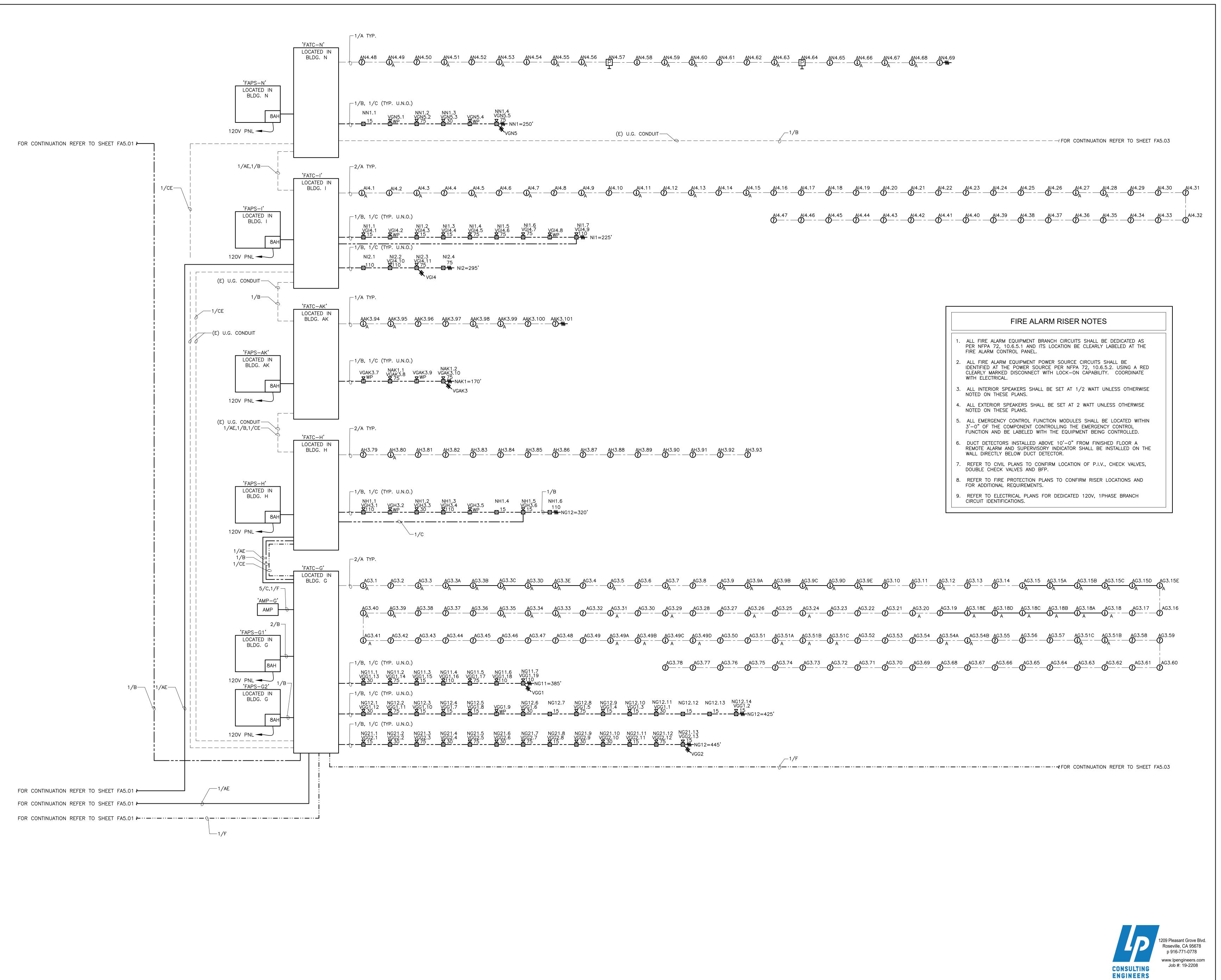






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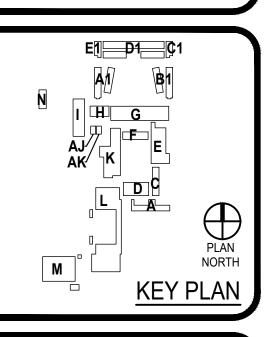
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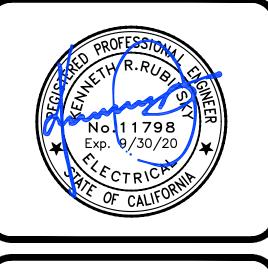
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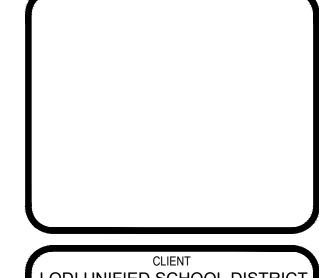
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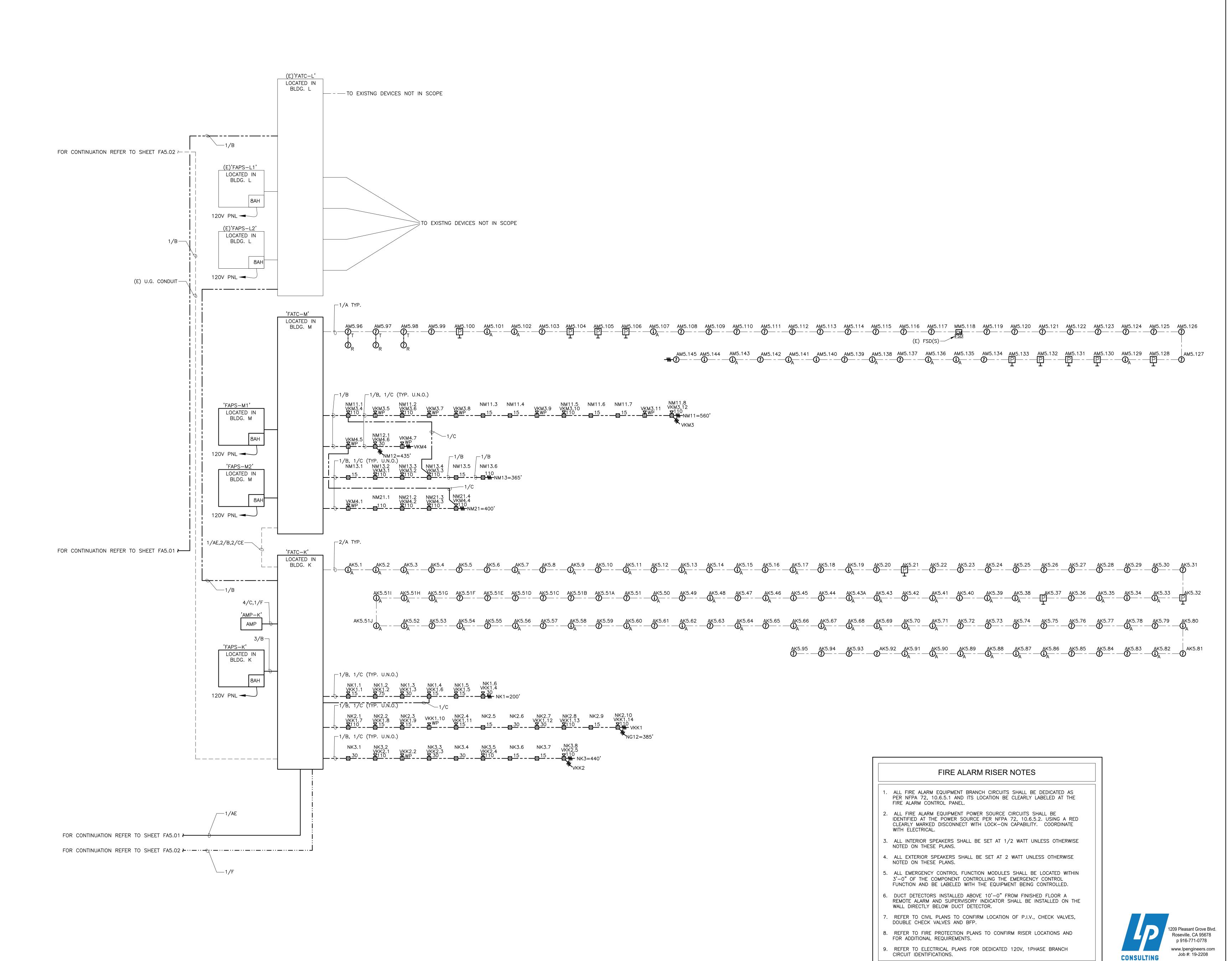






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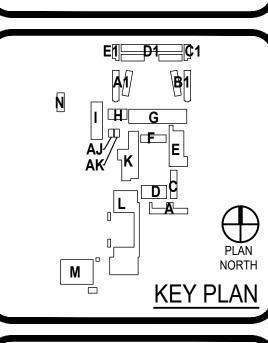
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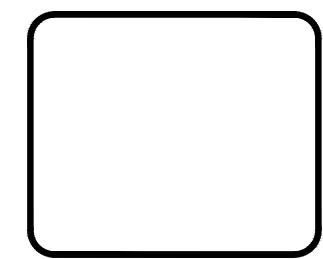
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PARTIAL FIRE				
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	ALARM RISER			

FA5.03

**ENGINEERS** 

DIAGRAM

FAMP-K					
SPEAKER CALCULATION					
TOTAL WATTAGE U	JSED	34			
TOTAL WATTAGE AVAILABLE		50			
PERCENTAGE REMAINING		32.00%			
DEVICE	QTY	Wattage Used	Wattage Available		
1/4 WATT SPKR	0	0	50		

FAMP-G						
SPEAKER CALCULATION						
TOTAL WATTAGE (	TOTAL WATTAGE USED 42.5					
TOTAL WATTAGE AV	AILABLE	50				
PERCENTAGE REMA	INING	15.00%				
DEVICE	QTY	Wattage Used	Wattage Available			
1/4 WATT SPKR	0	0	50			
1/2 WATT SPKR	1/2 WATT SPKR 49		25.5			
3/4 WATT SPKR	0	0	25.5			
1 WATT SPKR	0	0	25.5			
2 WATT SPKR	9	18	7.5			

	FAMP-C					
SPEAKE	SPEAKER CALCULATION					
TOTAL WATTAGE U	JSED	46				
TOTAL WATTAGE AVA	ILABLE	50				
PERCENTAGE REMA	PERCENTAGE REMAINING 8.00%					
DEVICE	QTY	Wattage Used	Wattage Available			
1/4 WATT SPKR	0	0	50			
1/2 WATT SPKR	64	32	18			
3/4 WATT SPKR	0	0	18			
1 WATT SPKR	0	0	18			
2 WATT SPKR	7	14	4			

AVAILABLE VOLTAGE 22.75

AVAILABLE VOLTAGE 23.37

#### FIRE ALARM REMOTE PANEL 'FACP-SOUTH' **BATTERY CALCULATIONS**

			CURRENT	E ACTE AS EASE IN	URRENT
DEVICE	QUANTITY	AMPS	TOTAL	AMPS	TOTAL
FACP LOAD (ADDRESSIBLE)	1	1.416	1.416	1.92	1.92
PULL STATION	23	0.000375	0.008625	0.005	0.115
HEAT DETECTOR	248	0.0002	0.0496	0.0045	1.116
SMOKE DETECTOR	321	0.0002	0.0642	0.0045	1.4445
BEAM SMOKE DETECTOR	3	0.002	0.006	0.0085	0.0255
MULTI-CRITERIA/CO DETECTOR	0	0.0003	0	0.0065	0
MONITOR MODULE	0	0.004	0	0.008	0
CONTROL MODULE	1	0.004	0.004	0.008	0.008
POWER BOOSTER	1	0.075	0.075	0.205	0.205
15CD HORN/STROBE	0		0	0.088	0
30CD HORN/STROBE	0		0	0.12	0
75CD HORN/STROBE	0		0	0.174	0
110CD HORN/STROBE	0		0	0.224	0
15CD STROBE	0		0	0.047	0
30CD STROBE	0		0	0.081	0
75CD STROBE	0		0	0.128	0
110CD STROBE	0		0	0.166	0
EXTERIOR SPEAKER	0		0	0.041	0
TOTAL			1.623425		4.834
TOTAL 24 HR STANDBY			38.9622		
TOTAL 15 MIN ALARM					1.2085
TOTAL REQUIRED AH	40.1707				
+20%SPARE	48.20484				
FACP BATTERY AH	54				

<b>POWER</b>	POWER BOOSTER PANEL 'FAPS-AK'											
<b>BATTERY CALCULATIONS</b>												
		STANDBY	CURRENT	ALARMC	UR							
DEVICE	QUANTITY	AMPS	TOTAL	AMPS	7							

		OMEG		110	
		STANDBY	CURRENT	ALARMO	URREN
DEVICE	QUANTITY	AMPS	TOTAL	AMPS	TOTAL
BOOSTER (ADDRESSIBLE)	1	0.056	0.056	0.056	0.056
15CD HORN/STROBE	0		0	0.088	0
30CD HORN/STROBE	0		0	0.12	0
75CD HORN/STROBE	2		0	0.174	0.348
110CD HORN/STROBE	0		0	0.224	0
15CD STROBE	0		0	0.047	0
30CD STROBE	0		0	0.081	0
75CD STROBE	0		0	0.128	0
110CD STROBE	0		0	0.166	0
EXTERIOR SPEAKER	0		0	0.041	0
CO SOUNDER BASE	0	0.0005	0	0.035	0
TOTAL			0.056		0.404
TOTAL 24 HR STANDBY		,	1.344		•
TOTAL 15 MIN ALARM					0.101
TOTAL REQUIRED AH	1.445				
TIOTAL +20%SPARE	1.734				
FACP BATTERY AH	8				

	VOLTAGE DROP CALCULATIONS 'FAPS-A'																									
			CO		INTERI	<mark>O</mark> R	E <mark>XTERIO</mark> F	R S <mark>P</mark> I	<mark>EAKE</mark> F	₹ 5	S <mark>PEAKE</mark> I	R	SPEAKE	₹ 5	S <mark>PEAKE</mark> R		STROBE		STROBE							
CIRCUIT	<b>FLOOR</b>	PANEL	S <mark>OUND</mark>	ER	SPEAK	ER	S <mark>PEAKE</mark> F	R ST	ROBE		<b>STROBE</b>		STROBE		<b>STROBE</b>		ONLY		ONLY		WIRE	RESISTANCE	LENGTH	TOTAL	VOLTAGE	% OF
NO.	BLDG		96dB/	Д	96dB	4	99dBA		15cd		30cd		75cd		110cd		15cd		30cd		SIZE	(IN OHMS/	(IN FEET)	CURRENT	DROP	VOLTAGE
			@ 0.035	5 A	@ <mark>0.07</mark> 5	5 A	@ 0.075 A	A @ (	0.041	A @	0.063	A (	@ <mark>0.111</mark> /	A @	0.158 A	@	0.041 A	(0	0.063	Α	(AWG)	1000FT)		(IN AMPS)		DROP
NA1	A1								4		4						2	T	1		12	1.98	475	0.561	1.06	4.40%
NA2	A1	Α							3		3						8				12	1.98	415	0.640	1.05	4.38%
NA3	SPARE	A																			12	1.98				
NA4	SPARE																				12	1.98				
																							AVAILABL	E VOLTAGE	21.89	

																							AVAILABL	E VOLTAGE	21.89	
								V	OI	ΤΔΟ	}F	DR	OP	CALCU	Ш	ΔΤΙΟ	N	S 'FA	P	S-AK'						
				<u></u>	_	INTERIOR	TE														<u> </u>	1			1	
CIRCUIT	FLOOR	PANEL	S	CO OUNDEF		SPEAKER		XTERIO PEAKE	_	S <mark>PEAKE</mark> STROB		S <mark>PEA</mark> STRO		SPEAKER STROBE		S <mark>PEAKE</mark> F STROBE		STROBE ONLY		STROBE ONLY	WIRE	RESISTANCE	LENGTH	TOTAL	VOLTAGE	% OF
NO.	BLDG			96dBA		96dBA		99dBA		15cd		30c	d	75cd		110cd		15cd		30cd	SIZE	(IN OHMS/		CURRENT	DROP	VOLTAGE
			@	0.035 A	1 (	@ <mark>0.075</mark> A	@	0.075	4 0	0.041	Α	@ 0.06	3 A	@ <mark>0.111</mark> A	@	0.158 <i>A</i>	1 @	0.041	4 (	@ <mark>0.063</mark> A	(AWG)	1000FT)		(IN AMPS)		DROP
NAK1	AK1													2							12	1.98	170	0.222	0.15	0.62%
NAK2	SPARE	AK																			12	1.98				
NAK3	SPARE	AIX																			12	1.98				
NAK4	SPARE																				12	1.98				
																							AVAILABL	E VOLTAGE	23.85	

DOWED	BOOG	TED D	A	TADO A	
POWER BA			JLATIO		
		STANDBY	CURRENT	ALARMO	URRENT
DEVICE	QUANTITY	AMPS	TOTAL	AMPS	TOTAL
BOOSTER (ADDRESSIBLE)	1	0.056	0.056	0.056	0.056
15CD HORN/STROBE	7		0	0.088	0.616
30CD HORN/STROBE	7		0	0.12	0.84
75CD HORN/STROBE	0		0	0.174	0
110CD HORN/STROBE	0		0	0.224	0
15CD STROBE	10		0	0.047	0.47
30CD STROBE	1		0	0.081	0.081
75CD STROBE	0		0	0.128	0
110CD STROBE	0		0	0.166	0
EXTERIOR SPEAKER	0		0	0.041	0
CO SOUNDER BASE	0	0.0005	0	0.035	0
TOTAL			0.056		2.063
TOTAL 24 HR STANDBY			1.344		
TOTAL 15 MIN ALARM					0.51575
TOTAL REQUIRED AH	1.85975				
TIOTAL +20%SPARE	2.2317				
FACP BATTERY AH	8				

POWER BOOSTER PANEL 'FAPS-C'

**BATTERY CALCULATIONS** 

### POWER BOOSTER PANEL 'FAPS-D' DATTEDY CALCUL ATIONS

BA <sup>-</sup>	<b>ITERY</b>	CALC	JLATIO	NS	
		STANDBY	CURRENT	ALARMO	URRENT
DEVICE	QUANTITY	AMPS	TOTAL	AMPS	TOTAL
BOOSTER (ADDRESSIBLE)	1	0.056	0.056	0.056	0.056
15CD HORN/STROBE	2		0	0.088	0.176
30CD HORN/STROBE	4		0	0.12	0.48
75CD HORN/STROBE	2		0	0.174	0.348
110CD HORN/STROBE	2		0	0.224	0.448
15CD STROBE	1		0	0.047	0.047
30CD STROBE	0		0	0.081	0
75CD STROBE	0		0	0.128	0
110CD STROBE	0		0	0.166	0
EXTERIOR SPEAKER	0		0	0.041	0
CO SOUNDER BASE	0	0.0005	0	0.035	0
TOTAL			0.056		1.555
TOTAL 24 HR STANDBY			1.344		
TOTAL 15 MIN ALARM					0.38875
TOTAL REQUIRED AH	1.73275				
TIOTAL +20%SPARE	2.0793				
FACE BATTERY AH	8				

	VOLTAGE DROP CALCULATIONS 'FAPS-C'																
			CO	I <mark>NTERIO</mark> R	E <mark>XTERIO</mark> R	S <mark>PEAKE</mark> R	S <mark>PEAKE</mark> R	S <mark>PEAKE</mark> R	S <mark>PEAKE</mark> R	STROBE	STROBE						
CIRCUIT	FLOOR	PANEL	S <mark>OUNDE</mark> R	S <mark>PEAKE</mark> R	S <mark>PEAKE</mark> R	STROBE	STROBE	STROBE	STROBE	ONLY	ONLY	WIRE	RESISTANCE	LENGTH	TOTAL	VOLTAGE	% OF
NO.	BLDG		96dBA	96dBA	99dBA	15cd	30cd	75cd	110cd	15cd	30cd	SIZE	(IN OHMS/	(IN FEET)	CURRENT	DROP	VOLTAGE
			@ 0.035 A	@ 0.075 A	@ 0.075 A	@ 0.041 A	@ 0.063 A	@ 0.111 A	@ <mark>0.158</mark> A	@ 0.041 A	0.063	A (AWG	1000FT)		(IN AMPS)		DROP
NC1	C1					5	2	1		5		12	1.98	330	0.647	0.85	3.52%
NC2	C1	С				7				2		12	1.98	255	0.369	0.37	1.55%
NC3	SPARE	C										12	1.98				
NC4	SPARE											12	1.98				
	AVAILABLE VOLTAGE 22.78																
	VOLTAGE DROP CALCULATIONS 'FAPS-D'																

% OF		—	<b>07.1</b>	,		
VOLTAGE			STANDBY	CURRENT	ALARMO	URRENT
DROP	DEVICE	QUANTITY	AMPS	TOTAL	AMPS	TOTAL
3.52%	BOOSTER (ADDRESSIBLE)	1	0.056	0.056	0.056	0.056
1.55%	15CD HORN/STROBE	12		0	0.088	1.056
	30CD HORN/STROBE	2		0	0.12	0.24
	75CD HORN/STROBE	1		0	0.174	0.174
	110CD HORN/STROBE	0		0	0.224	0
	15CD STROBE	7		0	0.047	0.329
	30CD STROBE	0		0	0.081	0
	75CD STROBE	0		0	0.128	0
	110CD STROBE	0		0	0.166	0
	EXTERIOR SPEAKER	0		0	0.041	0
% OF	CO SOUNDER BASE	0	0.0005	0	0.035	0
VOLTAGE						
DROP	TOTAL			0.056		1.855
5.20%						
	TOTAL 24 HR STANDBY			1.344		
	TOTAL 15 MIN ALARM					0.46375
	TOTAL REQUIRED AH	1.80775				
	TIOTAL +20%SPARE	2.1693				
	FACP BATTERY AH	8				

## POWER BOOSTER PANEL 'FAPS-F' BATTEDY CALCIII ATIONS

BA	ITERY	CALC	JLATIO	NS	
		STANDBY	CURRENT	ALARM C	URRENT
DEVICE	QUANTITY	AMPS	TOTAL	AMPS	TOTAL
BOOSTER (ADDRESSIBLE)	1	0.056	0.056	0.056	0.056
15CD HORN/STROBE	1		0	0.088	0.088
30CD HORN/STROBE	1		0	0.12	0.12
75CD HORN/STROBE	3		0	0.174	0.522
110CD HORN/STROBE	0		0	0.224	0
15CD STROBE	2		0	0.047	0.094
30CD STROBE	0		0	0.081	0
75CD STROBE	0		0	0.128	0
110CD STROBE	0		0	0.166	0
EXTERIOR SPEAKER	0		0	0.041	0
CO SOUNDER BASE	0	0.0005	0	0.035	0
TOTAL			0.056		0.88
TOTAL 24 HR STANDBY			1.344		
TOTAL 15 MIN ALARM					0.22
TOTAL REQUIRED AH	1.564				
TIOTAL +20%SPARE	1.8768				
FACP BATTERY AH	8				

	VOLTAGE DROP CALCULATIONS 'FAPS-E'  CO INTERIOR EXTERIOR SPEAKER SPEAKER SPEAKER STROBE STROBE																										
				CO	1	NTERIOR	EX	KTERIOR	S	PEAKE	R	SPEAK	ER	S <mark>PEAKE</mark>	R S	S <mark>PEAKE</mark> R	5	STROBE		<b>STROBE</b>							
CIRCUIT	<b>FLOOR</b>	PANEL	SO	<mark>UNDE</mark> I	R S	S <mark>PEAKE</mark> R	SF	PEAKER		STROBE		STROE	BE	STROBE		STROBE		ONLY		ONLY	Т	WIRE	RESISTANCE	LENGTH	TOTAL	VOLTAGE	% OF
NO.	BLDG		9	6dBA		96dBA		99dBA		15cd		30cd		75cd		110cd		15cd		30cd		SIZE	(IN OHMS/	(IN FEET)	CURRENT	DROP	VOLTAGE
			@ (	0.035	A @	0.075 A	@	0.075 A	@	0.041	Α	@ 0.063	A	@ <mark>0.111</mark>	A @	0.158 A	@	0.041 A	@	0.063	4	AWG)	1000FT)		(IN AMPS)		DROP
NE1	E1									1				5							T	12	1.98	305	0.596	0.72	3.00%
NE2	E1	Е								4				3								12	1.98	315	0.497	0.62	2.58%
NE3	E1									4						2		3				12	1.98	445	0.603	1.06	4.43%
NE4	SPARE																					12	1.98				
																								AVAILABL	E VOLTAGE	21.60	
								V	0	LTA	GI	E DR	OP	CAL	CU	LATIC	N	IS 'FA	P	S-F'							
		•		CO	1	<mark>NTERIO</mark> R	EX	<mark>KTERIO</mark> R	S	S <mark>PEAKE</mark>	R	S <mark>PEAK</mark>	ER	S <mark>PEAKE</mark>	R S	S <mark>PEAKE</mark> R	5	STROBE		<b>STROBE</b>	T						
CIRCUIT	<b>FLOOR</b>	PANEL	SO	<mark>UNDE</mark> I	RS	S <mark>PEAKE</mark> R	SF	<mark>PEAKE</mark> R		<mark>STROBE</mark>		STROE	BE	STROBE		STROBE		ONLY		ONLY		WIRE	RESISTANCE	LENGTH	TOTAL	VOLTAGE	% OF
NO.	BLDG		9	6dBA		96dBA		99dBA		15cd		30cd		75cd		110cd		15cd		30cd		SIZE	(IN OHMS/	(IN FEET)	CURRENT	DROP	VOLTAGE
			@ (	0.035	A a	0.075 A	@	0.075 A	a	0.041	Α	@ 0.063	A	@ 0.111	A a	0.158 A	@	0.041 A	@	0.063	4	AWG)	1000FT)		(IN AMPS)		DROP

POWER	BOOS	TER P	ANEL 'F	APS-E	•
BA	TTERY	CALC	JLATIO	NS	
		STANDBY	CURRENT	ALARMO	URREN
DEVICE	QUANTITY	AMPS			TOTAL
BOOSTER (ADDRESSIBLE)	1	0.056	0.056	0.056	0.056
15CD HORN/STROBE	9		0	0.088	0.792
30CD HORN/STROBE	0		0	0.12	0
75CD HORN/STROBE	8		0	0.174	1.392
110CD HORN/STROBE	2		0	0.224	0.448
15CD STROBE	3		0	0.047	0.141
30CD STROBE	0		0	0.081	0
75CD STROBE	0		0	0.128	0
110CD STROBE	0		0	0.166	0
EXTERIOR SPEAKER	0		0	0.041	0
CO SOUNDER BASE	0	0.0005	0	0.035	0
TOTAL			0.056		2.829
TOTAL 24 HR STANDBY			1.344		
TOTAL 15 MIN ALARM					0.7072
TOTAL REQUIRED AH	2.05125				
TIOTAL +20%SPARE	2.4615				
FACP BATTERY AH	8				

## POWER BOOSTER PANEL 'FAPS-G2'

BAT	<b>ITERY</b>	CALC	<b>JLATIO</b>	NS	
		STANDBY	CURRENT	ALARMO	URRENT
DEVICE	QUANTITY	AMPS	TOTAL	AMPS	TOTAL
BOOSTER (ADDRESSIBLE)	1	0.056	0.056	0.056	0.056
15CD HORN/STROBE	4		0	0.088	0.352
30CD HORN/STROBE	5		0	0.12	0.6
75CD HORN/STROBE	4		0	0.174	0.696
110CD HORN/STROBE	0		0	0.224	0
15CD STROBE	0		0	0.047	0
30CD STROBE	0		0	0.081	0
75CD STROBE	0		0	0.128	0
110CD STROBE	0		0	0.166	0
EXTERIOR SPEAKER	0		0	0.041	0
CO SOUNDER BASE	0	0.0005	0	0.035	0
TOTAL			0.056		1.704
TOTAL 24 HR STANDBY			1.344		,
TOTAL 15 MIN ALARM					0.426
TOTAL REQUIRED AH	1.77				
TIOTAL +20%SPARE	2.124				
FACP BATTERY AH	8				

						VC	)L	TAGI	ΕI	DROP	C	CALCU	JL	ATIO	NC	S 'FA	PS	S-G1	ı						
			CO	INTERIO	<mark>D</mark> R	E <mark>XTERIO</mark> R	SF	<mark>EAKE</mark> R	S	S <mark>PEAKE</mark> R	S	S <mark>PEAKE</mark> R	S	<mark>PEAKE</mark>	R	STROBE .	,	<mark>STROBE</mark>							
CIRCUIT	FLOOR	PANEL	S <mark>OUNDE</mark> R	SPEAK	ER	S <mark>PEAKE</mark> R	S	TROBE	;	<mark>STROBE</mark>	,	STROBE		<b>STROBE</b>		ONLY		ONLY		WIRE	RESISTANCE	LENGTH	TOTAL	VOLTAGE	% OF
NO.	BLDG		96dBA	96dB <i>A</i>	<b>\</b>	99dBA		15cd		30cd		75cd		110cd		15cd		30cd		SIZE	(IN OHMS/	(IN FEET)	CURRENT	DROP	VOLTAGE
			@ <mark>0.035</mark> A	@ 0.075	Α (	@ <mark>0.075</mark> A	@	0.041 A	@	0.063 A	@	0.111 A	@	0.158	A @	0.041 A	@	0.063	Α	(AWG)	1000FT)		(IN AMPS)		DROP
NG11	G1							1		1		2		3						12	1.98	385	0.800	1.22	5.08%
NG12	G1	G1						6		3		2				3				12	1.98	425	0.780	1.31	5.47%
NG13	SPARE	Gi																		12	1.98				
NG14	SPARE																			12	1.98				
																						AVAILABL	E VOLTAGE	21.47	
						VC	)L1	<b>TAGE</b>	Ξ [	DROP	C	CALCU	JL	ATIO	NC	S 'FAI	PS	3-G2							

NG13 NG14	SPARE																					12	1.98	AVAILABL	E VOLTAGE	21.47	
							V	)L	TAC	βE	DRC	P	CALC	UL	_AT	10	NS	5 'F/	AP:	S-G2	<u>'</u>						
			CO	I	NTERIOF	₹   E	E <mark>XTERIO</mark> R	S	PEAKE	R :	S <mark>PEAK</mark> I	R	SPEAKER		S <mark>PEAK</mark>	ER	S	TROBE		STROB	E						
CIRCUIT	FLOOR	PANEL	S <mark>OUNDE</mark> R	S	PEAKE	R S	S <mark>PEAKE</mark> R		STROBE		STROB	E	STROBE		STROE	3E		ONLY		ONLY		WIRE	RESISTANCE	LENGTH	TOTAL	VOLTAGE	% OF
NO.	BLDG		96dBA		96dBA		99dBA		15cd		30cd		75cd		110c	t		15cd		30cd		SIZE	(IN OHMS/	(IN FEET)	CURRENT	DROP	VOLTAGE
			@ 0.035 A	@	0.075	A @	0.075 A	@	0.041	A @	0.063	Α (	@ <mark>0.111</mark> A	\ @	0.158	3 A	@	0.041	A @	0.063	Α	(AWG)	1000FT)		(IN AMPS)		DROP
NG21	G1								4		5		4									12	1.98	445	0.923	1.63	6.78%
NG22	SPARE	G2																				12	1.98				
NG23	SPARE	02																				12	1.98				
NG24	SPARE																					12	1.98				
																								AVAILABL	E VOLTAGE	22.37	

#### POWER BOOSTER PANEL 'FAPS-G1' **BATTERY CALCULATIONS**

		STANDBY	CURRENT	ALARMO	URRENT
DEVICE	QUANTITY	AMPS	TOTAL	AMPS	TOTAL
BOOSTER (ADDRESSIBLE)	1	0.056	0.056	0.056	0.056
15CD HORN/STROBE	7		0	0.088	0.616
30CD HORN/STROBE	4		0	0.12	0.48
75CD HORN/STROBE	4		0	0.174	0.696
110CD HORN/STROBE	3		0	0.224	0.672
15CD STROBE	3		0	0.047	0.141
30CD STROBE	0		0	0.081	0
75CD STROBE	0		0	0.128	0
110CD STROBE	0		0	0.166	0
EXTERIOR SPEAKER	0		0	0.041	0
CO SOUNDER BASE	0	0.0005	0	0.035	0
TOTAL			0.056		2.661
TOTAL 24 HR STANDBY			1.344		
TOTAL 15 MIN ALARM					0.66525
TOTAL REQUIRED AH	2.00925				
TIOTAL +20%SPARE	2.4111				
FACP BATTERY AH	8				

1209 Pleasant Grove Blvd. Roseville, CA 95678 p 916-771-0778 CONSULTING ENGINEERS

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC

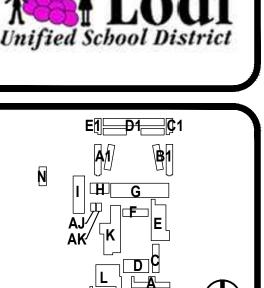
APP: 02-118482 INC: REVIEWED FOR SS ☐ FLS ☑ ACS ☐

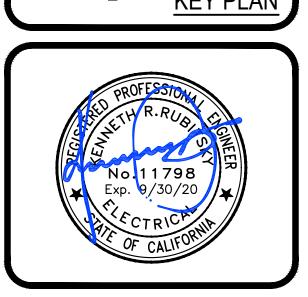
Sacramento, CA 95833 916-682-9494 P 916-682-0990 F MEPT ENGINEER LP Consulting Engineers, In 1209 Pleasant Grove Blvd.

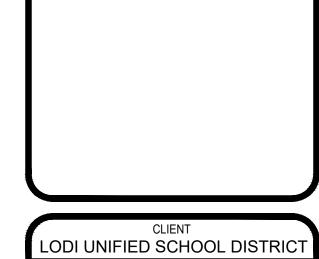
2520 Venture Oaks Way, Suite 440

Roseville, CA 95678 916-771-0778 P

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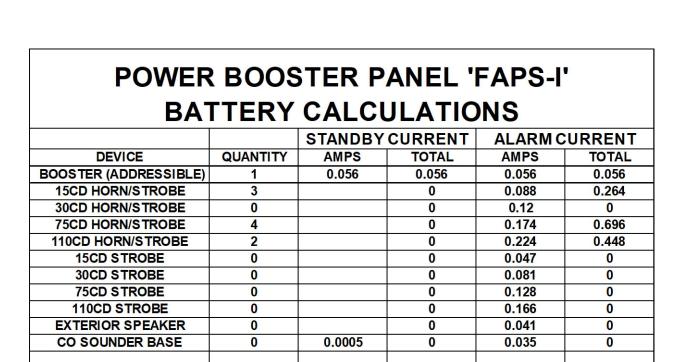






PROJECT NUMBER JULY 24, 2020 DESCRIPTION DATE CONSTRUCTION DOCUMENTS FIRE ALARM BATTERY AND **VOLTAGE DROP** 

**CALCS** 



0.056

1.464

TOTAL

TOTAL 24 HR STANDBY TOTAL 15 MIN ALARM

TOTAL REQUIRED AH 1.71
TIOTAL +20%SPARE 2.052
FACP BATTERY AH 8

							V	OL	TA	GE	E DF	ROP	CA	LC	ULATIO	NC	S 'F	AΡ	S-H'						
			СО	INTE	ERIOR	EXTE	ERIOR		PEAKE		SPEA		SPEA		S <mark>PEAKE</mark> R		STROBE		STROBE					Ι	
CIRCUIT	FLOOR	PANEL	SOUNDER	SPE	AKE <mark>R</mark>	SPEA	<mark>AKE</mark> R	S	STROBE		STRO		STRO		STROBE	_	ONLY		ONLY	WIRE	RESISTANCE	LENGTH	TOTAL	VOLTAGE	% OF
NO.	BLDG		96dBA	100000	6dBA		dBA		15cd		300		750		110cd		15cd		110cd	SIZE	(IN OHMS/	(IN FEET)	CURRENT	DROP	VOLTAGE
			@ 0.035 A	@ 0.	<mark>.075</mark> A	@ 0.0	<mark>075</mark> A	@	0.041	Α (	@ 0.0	63 A	@ 0.1	<mark>11</mark> A	@ <mark>0.158</mark> A	@	0.041 A	A @	0.202 A	(AWG)	1000FT)		(IN AMPS)		DROP
NH1	H1								1		1				2		1		1	12	1.98	320	0.663	0.84	3.50%
NH2	SPARE	н																		12	1.98				
NH3	SPARE																			12	1.98			•	
NH4	SPARE																			12	1.98				
•																						۸\/۸۱۱ ۸ DI	E VOLTAGE	23.16	
																						7 ( 7 ( 12 / 12 / 12 / 12 / 12 / 12 / 12 / 12	L VOLINOL	20.10	
																						, vivile (BE	L VOLINGE	20.10	
							V	/OI	LTA	GI	E D	ROF	P CA	\LC	CULATION	ON	IS 'F	ΑF	PS-I'			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	LVOLINOL	20.10	
															ULATI							, ((), (), ()	L VOLINGE		
		5.1151	СО	-	<u>ERIOR</u>		ERIOR	S	PEAKE	R	S <mark>PEA</mark>	<mark>KE</mark> R	S <mark>PEA</mark>	<mark>KE</mark> R	S <mark>PEAKE</mark> R	5	STROBE		STROBE						
		PANEL	S <mark>OUNDE</mark> R	SPE	AKE <mark>R</mark>	S <mark>PE</mark>	ERIOR AKER	S	PEAKE STROBE	R	S <mark>PEA</mark> STRO	KER OBE	S <mark>PEA</mark> STRO	KER BE	S <mark>PEAKE</mark> R STROBE	5	STROBE ONLY		STROBE ONLY		RESISTANCE	LENGTH	TOTAL	VOLTAGE	
CIRCUIT NO.	FLOOR BLDG	PANEL	S <mark>OUNDE</mark> R 96dBA	SPE 96	AKER dBA	SPEA 99d	ERIOR AKER dBA	S	PEAKE STROBE 15cd	R	SPEA STRO	KER OBE	SPEA STRO	KER OBE	SPEAKER STROBE 110cd	9	STROBE ONLY 75cd		STROBE ONLY 110cd	SIZE	RESISTANCE (IN OHMS/		TOTAL CURRENT		VOLTAGE
10. 6/20.76	BLDG	PANEL	S <mark>OUNDE</mark> R 96dBA	SPE 96	AKER dBA	SPEA 99d	ERIOR AKER dBA	S	PEAKE STROBE 15cd 0.041	R	SPEA STRO	KER OBE	SPEA STRO 750 @ 0.1	KER OBE	S <mark>PEAKE</mark> R STROBE	9	STROBE ONLY 75cd		STROBE ONLY 110cd	SIZE (AWG)	RESISTANCE (IN OHMS/ 1000FT)	LENGTH (IN FEET)	TOTAL CURRENT (IN AMPS)	VOLTAGE DROP	VOLTAGE DROP
NO.	BLDG I1	PANEL	S <mark>OUNDE</mark> R 96dBA	SPE 96	AKER dBA	SPEA 99d	ERIOR AKER dBA	S	PEAKE STROBE 15cd	R	SPEA STRO	KER OBE	SPEA STRO	KER OBE	SPEAKER STROBE 110cd	9	STROBE ONLY 75cd		STROBE ONLY 110cd	SIZE (AWG) 12	RESISTANCE (IN OHMS/ 1000FT) 1.98	LENGTH (IN FEET) 225	TOTAL CURRENT (IN AMPS) 0.614	VOLTAGE DROP 0.55	VOLTAGE DROP 2.28%
NO. NH1 NH2	BLDG I1 SPARE	PANEL	S <mark>OUNDE</mark> R 96dBA	SPE 96	AKER dBA	SPEA 99d	ERIOR AKER dBA	S	PEAKE STROBE 15cd 0.041	R	SPEA STRO	KER OBE	SPEA STRO 750 @ 0.1	KER OBE	SPEAKER STROBE 110cd	9	STROBE ONLY 75cd		STROBE ONLY 110cd	SIZE (AWG) 12 12	RESISTANCE (IN OHMS/ 1000FT) 1.98 1.98	LENGTH (IN FEET)	TOTAL CURRENT (IN AMPS)	VOLTAGE DROP	VOLTAGE DROP
NO.  NH1  NH2  NH3	I1 SPARE SPARE	PANEL	S <mark>OUNDE</mark> R 96dBA	SPE 96	AKER dBA	SPEA 99d	ERIOR AKER dBA	S	PEAKE STROBE 15cd 0.041	R	SPEA STRO	KER OBE	SPEA STRO 750 @ 0.1	KER OBE	SPEAKER STROBE 110cd	9	STROBE ONLY 75cd		STROBE ONLY 110cd	SIZE (AWG) 12 12 12	RESISTANCE (IN OHMS/ 1000FT) 1.98 1.98 1.98	LENGTH (IN FEET) 225	TOTAL CURRENT (IN AMPS) 0.614	VOLTAGE DROP 0.55	VOLTAGE DROP 2.28%
NO. NH1 NH2	BLDG I1 SPARE	PANEL	S <mark>OUNDE</mark> R 96dBA	SPE 96	AKER dBA	SPEA 99d	ERIOR AKER dBA	S	PEAKE STROBE 15cd 0.041	R	SPEA STRO	KER OBE	SPEA STRO 750 @ 0.1	KER OBE	SPEAKER STROBE 110cd	9	STROBE ONLY 75cd		STROBE ONLY 110cd	SIZE (AWG) 12 12	RESISTANCE (IN OHMS/ 1000FT) 1.98 1.98	LENGTH (IN FEET) 225	TOTAL CURRENT (IN AMPS) 0.614	VOLTAGE DROP 0.55	VOLTAGE DROP 2.28%

POWER	BOOS	TER P	ANEL 'F	APS-H	[*
BAT	<b>TERY</b>	CALC	JLATIO	NS	
		STANDBY	CURRENT	ALARMO	URRENT
DEVICE	QUANTITY	AMPS	TOTAL	AMPS	TOTAL
BOOSTER (ADDRESSIBLE)	1	0.056	0.056	0.056	0.056
15CD HORN/STROBE	1		0	0.088	0.088
30CD HORN/STROBE	1		0	0.12	0.12
75CD HORN/STROBE	0		0	0.174	0
110CD HORN/STROBE	2		0	0.224	0.448
15CD STROBE	1		0	0.047	0.047
30CD STROBE	0		0	0.081	0
75CD STROBE	0		0	0.128	0
110CD STROBE	0		0	0.166	0
EXTERIOR SPEAKER	0		0	0.041	0
CO SOUNDER BASE	0	0.0005	0	0.035	0
TOTAL			0.056		0.759
TOTAL 24 HR STANDBY			1.344		
TOTAL 15 MIN ALARM					0.18975
TOTAL REQUIRED AH	1.53375				
TIOTAL +20%SPARE	1.8405				
FACP BATTERY AH	8				

POWER	BOOS	ΓER PA	NEL 'F	APS-M	1'
BA	ΓTERY	CALC	<b>JLATIO</b>	NS	
		STANDBY	CURRENT	ALARMO	URRENT
DEVICE	QUANTITY	AMPS	TOTAL	AMPS	TOTAL
BOOSTER (ADDRESSIBLE)	1	0.056	0.056	0.056	0.056
15CD HORN/STROBE	0		0	0.088	0
30CD HORN/STROBE	1		0	0.12	0.12
75CD HORN/STROBE	0		0	0.174	0
110CD HORN/STROBE	7		0	0.224	1.568
15CD STROBE	6		0	0.047	0.282
30CD STROBE	0		0	0.081	0
75CD STROBE	0		0	0.128	0
110CD STROBE	0		0	0.166	0
EXTERIOR SPEAKER	0		0	0.041	0
CO SOUNDER BASE	0	0.0005	0	0.035	0
TOTAL			0.056		2.026
TOTAL 24 HR STANDBY			1.344		
TOTAL 15 MIN ALARM					0.5065
TOTAL REQUIRED AH	1.8505				
TIOTAL +20%SPARE	2.2206				
FACP BATTERY AH	8				

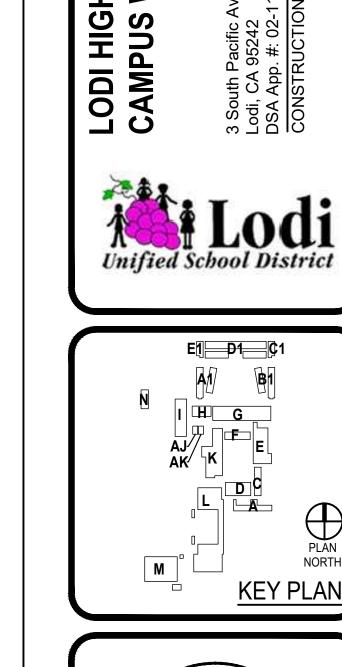
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								V	<i>/</i> $\cup$	LIA	AG	EL	ROI	ן ק	JAL	CU	JLA	4110	אכ	5	FA	P	5-K	24						
				CO		I <mark>NTERIO</mark> R	E	<mark>XTERIO</mark> R	₹ :	S <mark>PEA</mark>	<mark>KE</mark> R	SP	<mark>EAKE</mark> R	S	<mark>PEAKE</mark> I	R	SPE	<mark>AKE</mark> R	,	<mark>STRO</mark>	BE		TROB	E						
CIRCUIT	FLOOR	PANEL	S	<mark>OUNDE</mark> R	₹ 5	S <mark>PEAKE</mark> R		<mark>PEAKE</mark> R	₹	STRO			ROBE		STROBE		STF	ROBE		ONL	-		ONLY			RESISTANCE	LENGTH	TOTAL	VOLTAGE	% OF
NO.	BLDG			96dBA		96dBA		99dBA		150			30cd		75cd			10cd		15c			30cd		SIZE	(IN OHMS/	(IN FEET)		DROP	VOLTAGE
			@	0.035 A	(a	0.075 A	@	0.075 A	A (0	<mark>ඔ 0.0</mark> ₄	41 A	@ (	0.063 A	@	0.111	A (	@ <mark>0</mark> .	. <mark>158</mark> A	@	0.04	1 A	@	0.063	Α	(AWG)	1000FT)		(IN AMPS)		DROP
NK1	K1									3	<b></b>		2		1										12	1.98	200	0.360	0.29	1.19%
NK2	K1	K	***************************************							3			1					3		2			1		12	1.98	385	0.805	1.23	5.11%
NK3	K1												1					3		2			2		12	1.98	440	0.745	1.30	5.41%
NK4	SPARE																								12	1.98				
																											^	E VOLTAGE	24.40	
																											AVAILABL	E VOLTAGE	21.19	
								V		Ι ΤΛ	\CI	= D	<b>P</b> ∩D		\ \ \ C	111	ΙΛ	TIC	NI C	פיב	· ^ C	90	. NA -							
								V	OL	LTA	\GI	E D	ROP	· C	ALC	UI	LA	TIC	NS	S 'F	AF	PS	-M 1	<b>'</b>						
				СО		I <mark>NTERIO</mark> R	E	<b>V</b> O		L <b>TA</b> S <mark>PEA</mark>			ROP		ALC PEAKE			TIC		S 'F			STROB							
CIRCUIT	FLOOR	PANEL	S	CO OUNDER		I <mark>NTERIO</mark> R S <mark>PEAKE</mark> R			₹		KER	SP		5		R	SPE			STRO ONL	BE Y	S			WIRE	RESISTANCE	LENGTH	TOTAL	VOLTAGE	% OF
CIRCUIT NO.	FLOOR BLDG	PANEL	S	OUNDEF 96dBA	3	S <mark>PEAKE</mark> R 96dBA	S	XTERIOF PEAKEF 99dBA	₹ 	SPEA STRO	KER OBE	S <mark>P</mark>	EAKER ROBE 30cd	S	PEAKEI STROBE 75cd	R	SPE STF	AKER		STRO ONL 15c	BE Y d	9	ONLY	E	WIRE SIZE	RESISTANCE (IN OHMS/	LENGTH (IN FEET)	CURRENT	VOLTAGE DROP	VOLTAGE
The state of the state of the state of		PANEL	S	OUNDEF 96dBA	3	S <mark>PEAKE</mark> R 96dBA	S	XTERIOF PEAKEF 99dBA	₹ 	SPEA STRO	KER OBE	S <mark>P</mark>	EAKER ROBE	S	PEAKEI STROBE 75cd	R	SPE STF	AKER ROBE	(	STRO ONL 15c	BE Y	9	ONLY	Ē	24 -50 201 -000	E ME - CONTROL SON DE SE CONTR	A STATE OF THE PARTY OF THE PAR			
The state of the state of the state of		PANEL		OUNDEF 96dBA	3	S <mark>PEAKE</mark> R 96dBA	S	XTERIOF PEAKEF 99dBA	₹ 	SPEA STRO	KER OBE	S <mark>P</mark>	EAKER ROBE 30cd	S	PEAKEI STROBE 75cd	R	SPE STF	AKER ROBE 10cd	(	STRO ONL 15c	BE Y d	9	ONLY	Ē	SIZE	(IN OHMS/	A STATE OF THE PARTY OF THE PAR	CURRENT		VOLTAGE
NO.	BLDG			OUNDEF 96dBA	3	S <mark>PEAKE</mark> R 96dBA	S	XTERIOF PEAKEF 99dBA	₹ 	SPEA STRO	KER OBE	S <mark>P</mark>	EAKER ROBE 30cd	S	PEAKEI STROBE 75cd	R	SPE STF	AKER ROBE 10cd	(	STRO ONL 15c	BE Y d	9	ONLY	Ē	SIZE (AWG)	(IN OHMS/ 1000FT)	(IN FEET)	CURRENT (IN AMPS)	DROP	VOLTAGE DROP
NO.	M1 M1 M1	PANEL		OUNDEF 96dBA	3	S <mark>PEAKE</mark> R 96dBA	S	XTERIOF PEAKEF 99dBA	₹ 	SPEA STRO	KER OBE	S <mark>P</mark>	EAKER ROBE 30cd 0.063 A	S	PEAKEI STROBE 75cd	R	SPE STF 11 @ 0.	AKER ROBE 10cd	(	STRO ONL 15c	BE Y d	9	ONLY	Ē	SIZE (AWG) 12	(IN OHMS/ 1000FT) 1.98	(IN FEET) 560	CURRENT (IN AMPS) 0.796	DROP 1.77	VOLTAGE DROP 7.36%
NO.  NM11  NM12	BLDG M1 M1			OUNDEF 96dBA	3	S <mark>PEAKE</mark> R 96dBA	S	XTERIOF PEAKEF 99dBA	₹ 	SPEA STRO	KER OBE	S <mark>P</mark>	EAKER ROBE 30cd 0.063 A	S	PEAKEI STROBE 75cd	R	SPE STF 11 @ 0.	AKER ROBE 10cd .158 A	(	STRO ONL 15c0 0.04 4	BE Y d	9	ONLY	Ē	SIZE (AWG) 12 12	(IN OHMS/ 1000FT) 1.98 1.98	(IN FEET) 560 435	CURRENT (IN AMPS) 0.796 0.063	DROP 1.77 0.11	VOLTAGE DROP 7.36% 0.45%

BAT	TERY	CALC	JLATIO	NS	
		STANDBY	CURRENT	ALARMO	URRENT
DEVICE	QUANTITY	AMPS	TOTAL	AMPS	TOTAL
BOOSTER (ADDRESSIBLE)	1	0.056	0.056	0.056	0.056
15CD HORN/STROBE	6		0	0.088	0.528
30CD HORN/STROBE	4		0	0.12	0.48
75CD HORN/STROBE	1		0	0.174	0.174
110CD HORN/STROBE	6		0	0.224	1.344
15CD STROBE	4		0	0.047	0.188
30CD STROBE	3		0	0.081	0.243
75CD STROBE	0		0	0.128	0
110CD STROBE	0		0	0.166	0
EXTERIOR SPEAKER	0		0	0.041	0
CO SOUNDER BASE	0	0.0005	0	0.035	0
TOTAL			0.056		3.013
TOTAL 24 HR STANDBY			1.344		
TOTAL 15 MIN ALARM			1.044		0.75325
TOTAL REQUIRED AH	2.09725	I			0.7.0020
TIOTAL +20%SPARE	2.5167				
FACP BATTERY AH	8				

POWER					•
BA	TTERY	CALC	JLATIO	NS	
		STANDBY	CURRENT	ALARMO	URRENT
DEVICE	QUANTITY	AMPS	TOTAL	AMPS	TOTAL
BOOSTER (ADDRESSIBLE)	1	0.056	0.056	0.056	0.056
15CD HORN/STROBE	0		0	0.088	0
30CD HORN/STROBE	1		0	0.12	0.12
75CD HORN/STROBE	2		0	0.174	0.348
110CD HORN/STROBE	0		0	0.224	0
15CD STROBE	1		0	0.047	0.047
30CD STROBE	0		0	0.081	0
75CD STROBE	0		0	0.128	0
110CD STROBE	0		0	0.166	0
EXTERIOR SPEAKER	0		0	0.041	0
CO SOUNDER BASE	0	0.0005	0	0.035	0
TOTAL			0.056		0.571
TOTAL 24 HR STANDBY			1.344		
TOTAL 15 MIN ALARM					0.14275
TOTAL REQUIRED AH	1.48675				
TIOTAL +20%SPARE	1.7841			_	
FACP BATTERY AH	8				

				CO	INT	ERIOR	E	(TERIO	3 5	S <mark>PEAKE</mark>	R S	S <mark>PEAKE</mark>	R SP	PEAKER	SE	EAKER	ST	TROBE	5	STROBE						
CIRCUIT	FLOOR	PANEL		JNDER		EAKER		PEAKE		STROBE		STROBE		TROBE	_	TROBE		ONLY	_	ONLY	WIRE	RESISTANCE	LENGTH	TOTAL	VOLTAGE	% OF
NO.	BLDG		9	dBA	_	6dBA		99dBA		15cd		30cd		75cd	_	110cd		15cd		110cd	SIZE		(IN FEET)	CURRENT	DROP	VOLTA
			@ 0	.035 A	@ 0	.075 A	@	0.075	4 @	0.041	A @	0.063	A @	0.111 A	@	0.158 A	@ (	0.041 A	@	0.202 A	(AWG)	1000FT)	,	(IN AMPS)		DRO
NM21	M1		Ť						Ť							3			Ť	1	12	1.98	400	0.676	1.07	4.46%
NM22	M1	M																			12	1.98				
NM23	M1	IVI																			12	1.98				
NM24	SPARE																				12	1.98				
											•				······································						***************************************		AVAILABL	E VOLTAGE	22.93	
								\	/0	LTA	GE	DRO	OP C	CALC	UL	.ATIC	) ) )	S 'FA	P	S-N'			AVAILABL	E VOLTAGE	22.93	
				CO	INT	ERIOR	l E>																AVAILABL	E VOLTAGE	22.93	
CIRCUIT	FLOOR	PANEL	_	CO JNDER		ERIOR EAKER		(TERIOF PEAKER	₹   5	LTA( SPEAKE STROBE	R	DRC SPEAKE STROBE	R SP	CALC PEAKER STROBE	SF	ATIC EAKER TROBE	\$7	S 'FA	5	S-N' STROBE ONLY	WIRE			E VOLTAGE TOTAL	22.93 VOLTAGE	% 0
CIRCUIT NO.	FLOOR BLDG	PANEL	SO		S <mark>PE</mark>	EAKER Odba	SF	CTERIOF PEAKEF 99dBA	? !	SPEAKE STROBE 15cd	R	S <mark>PEAKE</mark>	R SP	PEAKER	SF S	<mark>EAKE</mark> R	S <sub>1</sub>	TROBE	5	STROBE	WIRE SIZE	RESISTANCE				% OI VOLTA
		PANEL	S <mark>O</mark>	<mark>JNDE</mark> R	S <mark>PE</mark>	EAKER	SF	CTERIOF PEAKEF 99dBA	? !	SPEAKE STROBE 15cd	R S	S <mark>PEAKE</mark> STROBE	R SP	PEAKER TROBE 75cd	SF	EAKER TROBE	S1	TROBE ONLY	5	ONLY 110cd		RESISTANCE	LENGTH (IN FEET)	TOTAL CURRENT (IN AMPS)	VOLTAGE DROP	VOLTA DRO
NO.	BLDG N1	PANEL	S <mark>O</mark>	<mark>JNDE</mark> R IdBA	S <mark>PE</mark>	EAKER Odba	SF	CTERIOF PEAKEF 99dBA	? !	SPEAKE STROBE 15cd	R S	SPEAKE STROBE 30cd	R SP	PEAKER TROBE 75cd	SF	EAKER TROBE	S1	TROBE ONLY 15cd	5	ONLY 110cd	SIZE (AWG) 12	RESISTANCE (IN OHMS/ 1000FT) 1.98	LENGTH	TOTAL CURRENT	VOLTAGE	VOLTA
NO.	BLDG	PANEL	S <mark>O</mark>	<mark>JNDE</mark> R IdBA	S <mark>PE</mark>	EAKER Odba	SF	CTERIOF PEAKEF 99dBA	? !	SPEAKE STROBE 15cd	R S	SPEAKE STROBE 30cd	R SP	PEAKER TROBE 75cd	SF	EAKER TROBE	S1	TROBE ONLY 15cd	5	ONLY 110cd	SIZE (AWG)	RESISTANCE (IN OHMS/ 1000FT)	LENGTH (IN FEET)	TOTAL CURRENT (IN AMPS)	VOLTAGE DROP	VOLTA DRO

POWER					
BA	<b>ITERY</b>	CALCU	JLATIO	NS	
		STANDBY	CURRENT	ALARM C	URRENT
DEVICE	QUANTITY	AMPS	TOTAL	AMPS	TOTAL
BOOSTER (ADDRESSIBLE)	1	0.056	0.056	0.056	0.056
15CD HORN/STROBE	0		0	0.088	0
30CD HORN/STROBE	0		0	0.12	0
75CD HORN/STROBE	0		0	0.174	0
110CD HORN/STROBE	3		0	0.224	0.672
15CD STROBE	0		0	0.047	0
30CD STROBE	0		0	0.081	0
75CD STROBE	0		0	0.128	0
110CD STROBE	0		0	0.166	0
EXTERIOR SPEAKER	0		0	0.041	0
CO SOUNDER BASE	0	0.0005	0	0.035	0
TOTAL			0.056		0.728
TOTAL 24 HR STANDBY			1.344		
TOTAL 15 MIN ALARM					0.182
TOTAL REQUIRED AH	1.526				
TIOTAL +20%SPARE	1.8312				
FACP BATTERY AH	8				



IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC

APP: 02-118482 INC:

REVIEWED FOR

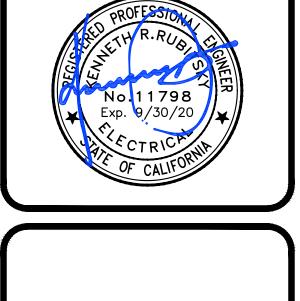
SS ☐ FLS ☑ ACS ☐

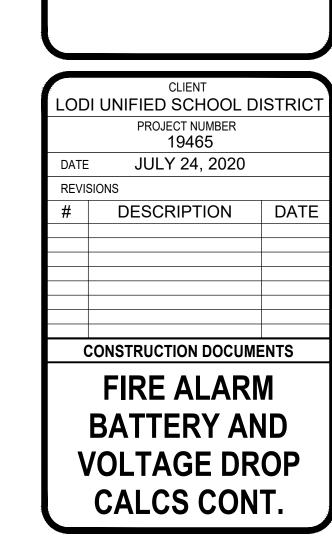
2520 Venture Oaks Way, Suite 440 Sacramento, CA 95833 916-682-9494 P 916-682-0990 F

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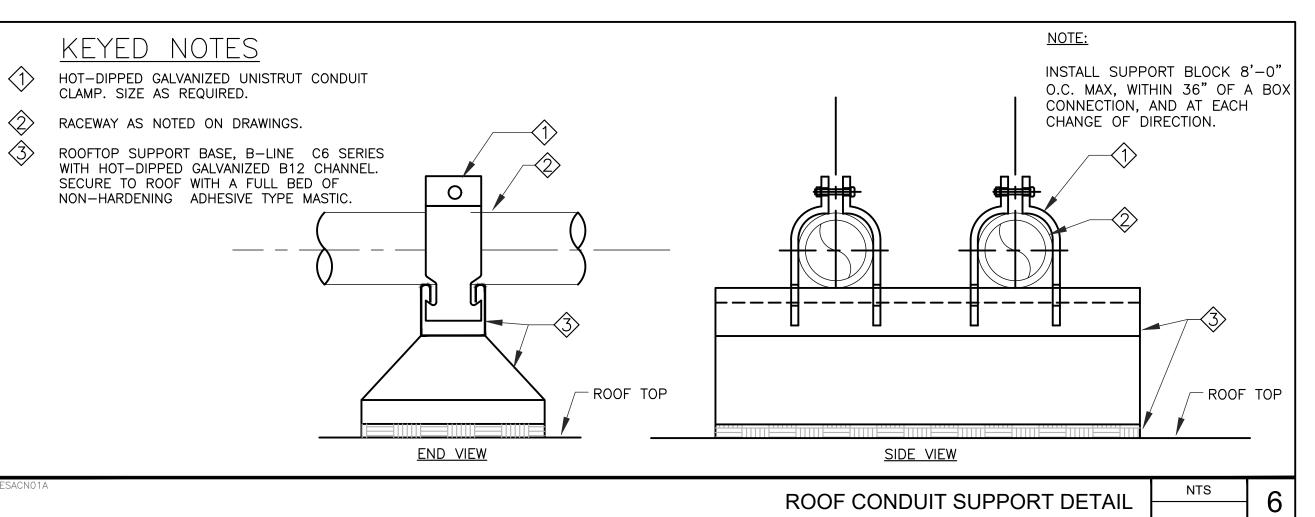


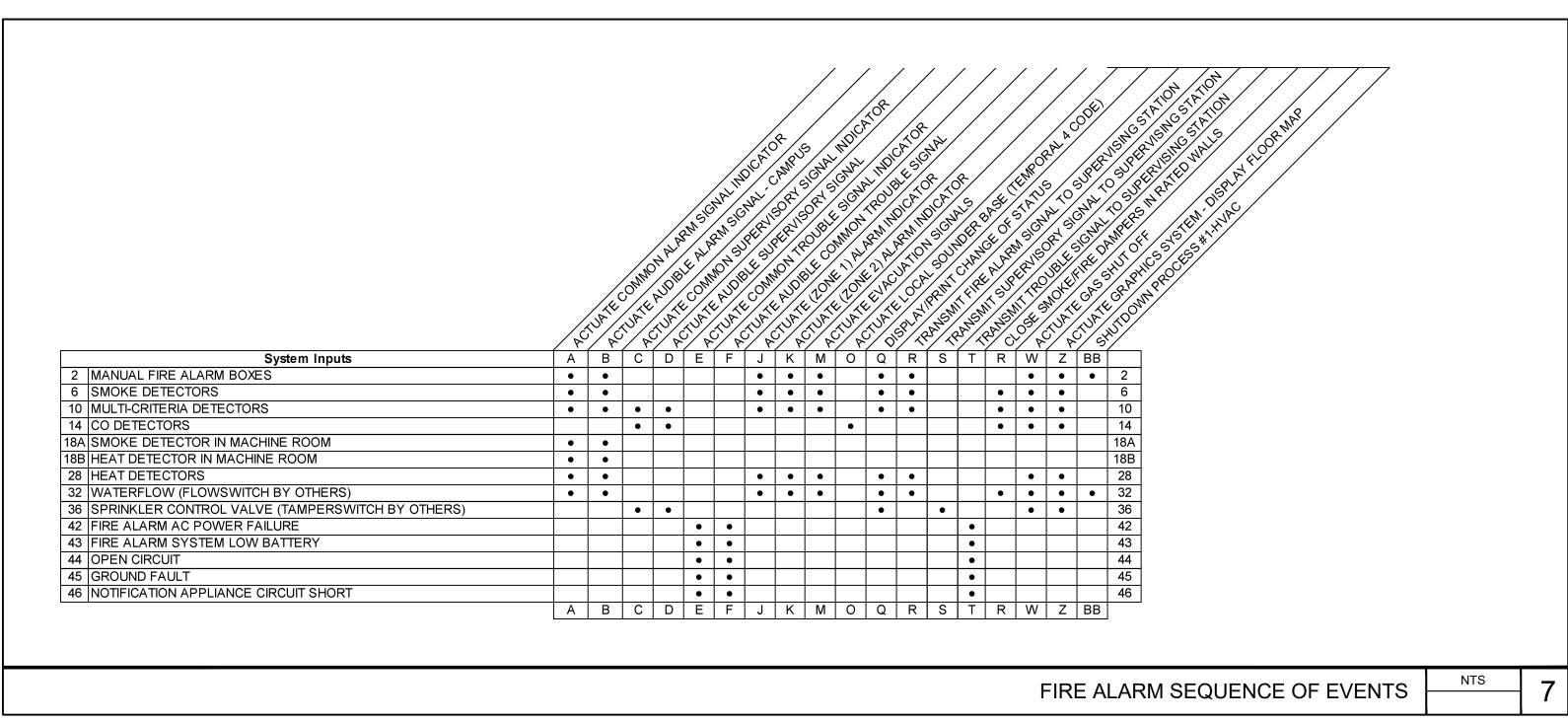


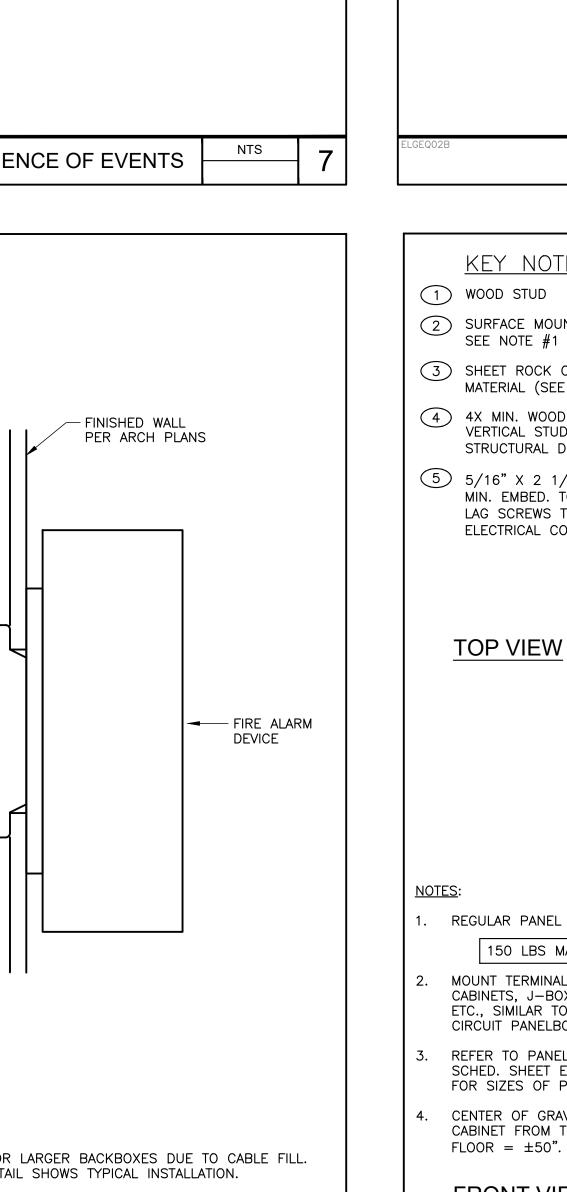
FA5.05

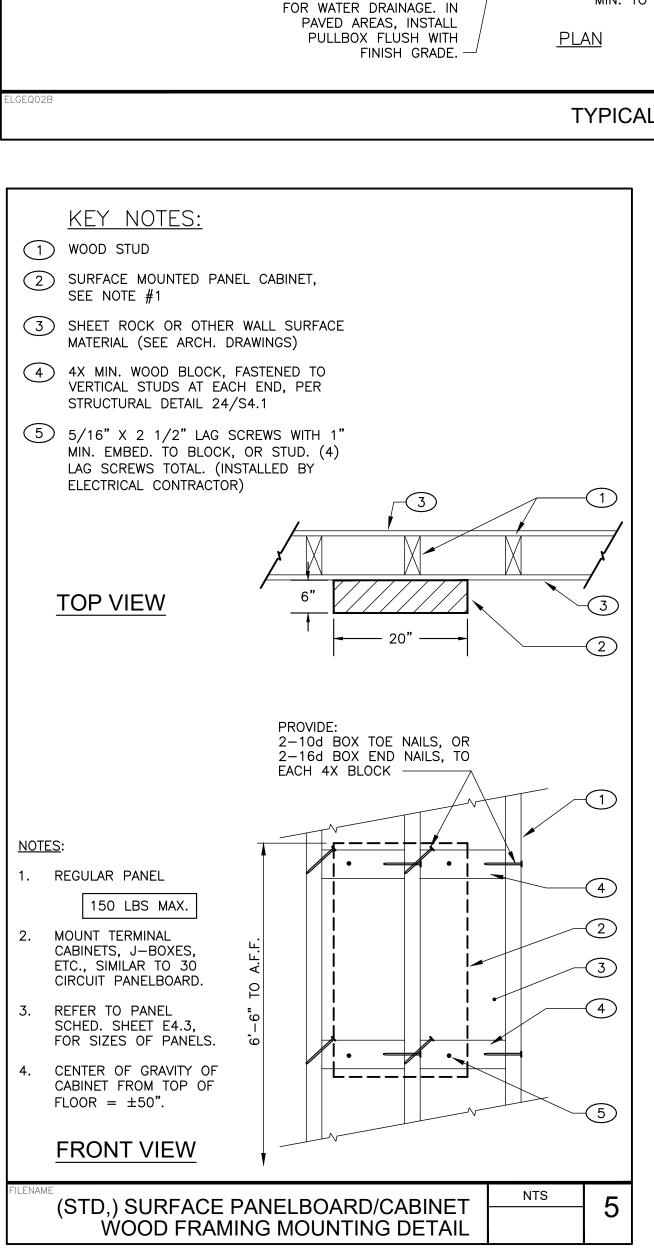
1209 Pleasant Grove Blvd. Roseville, CA 95678 p 916-771-0778

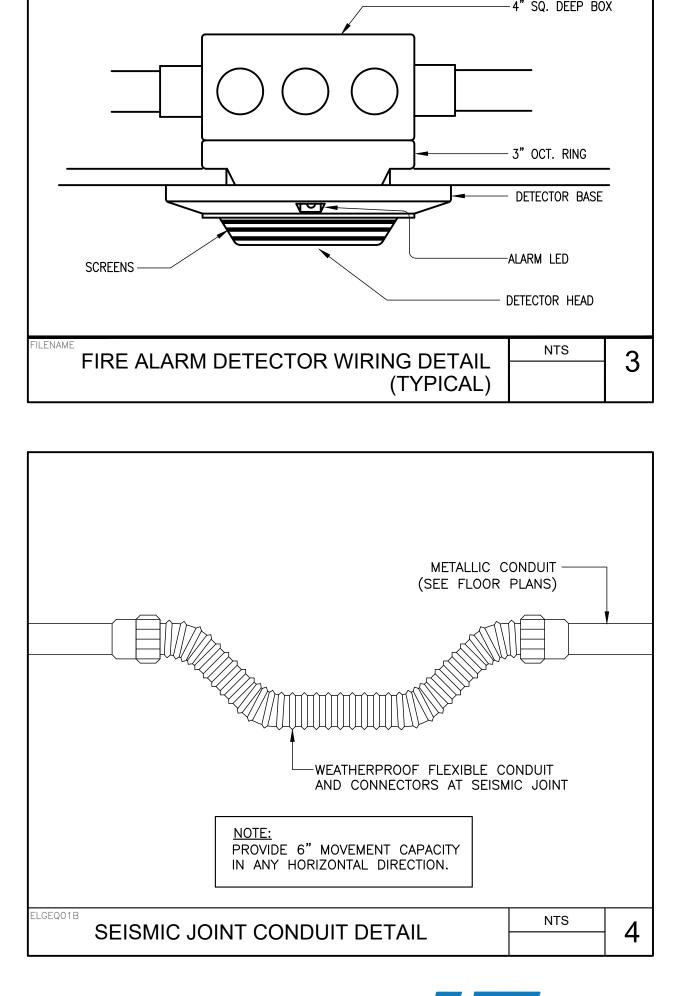
CONSULTING ENGINEERS







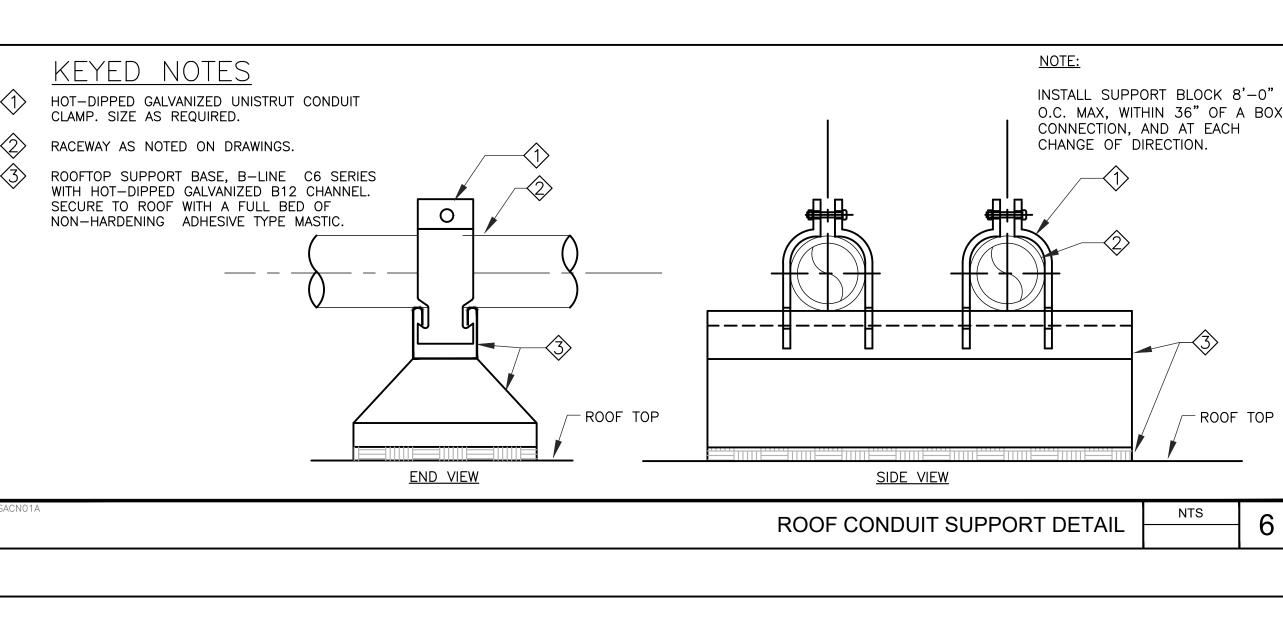


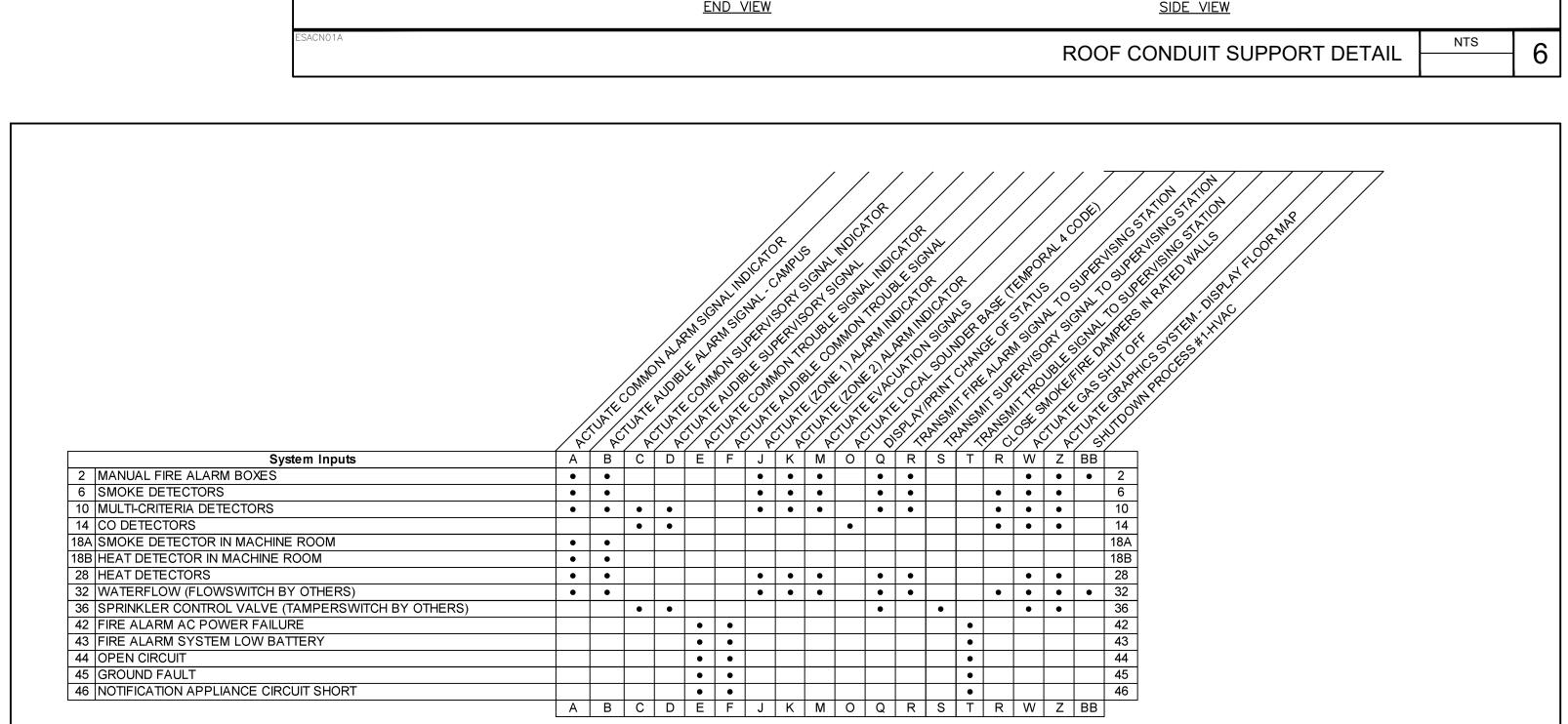


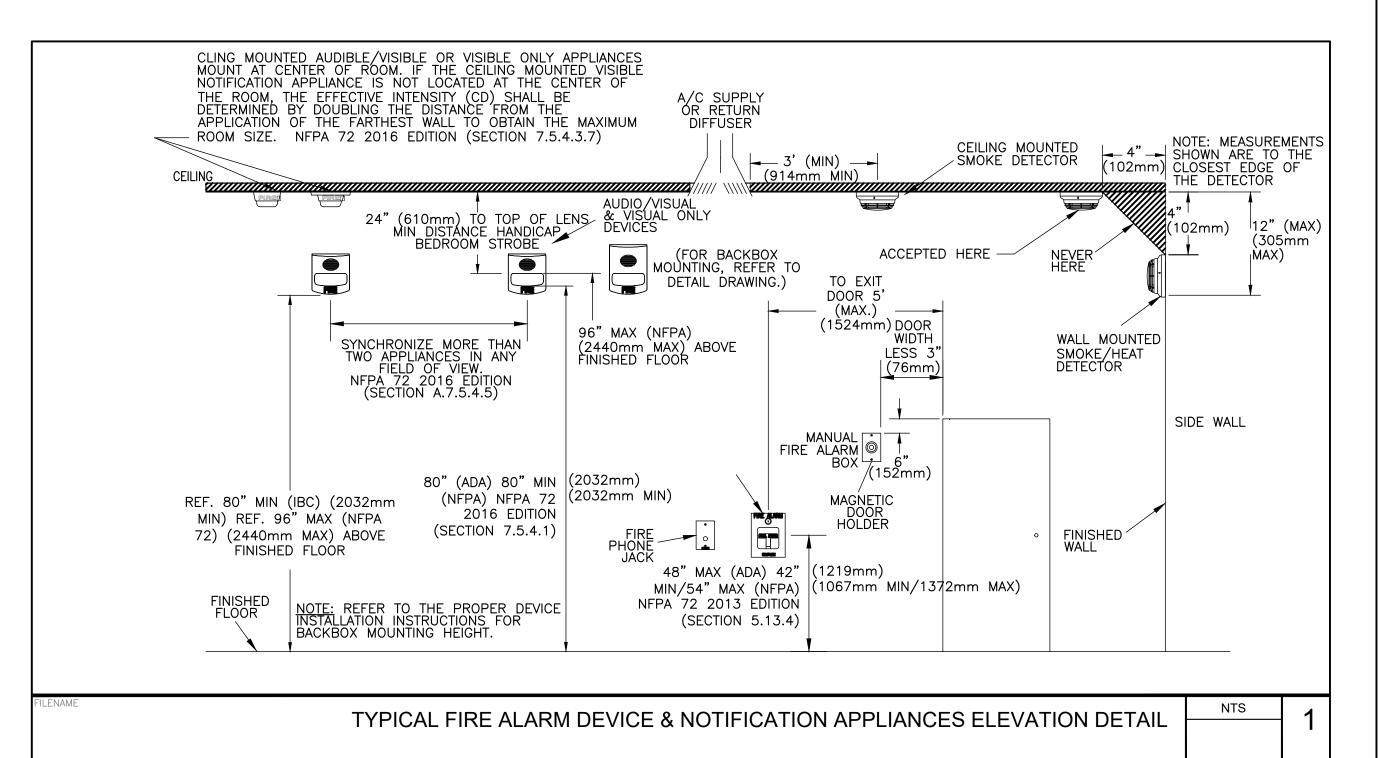
DEVICES MAY REQUIRE DEEPER OR LARGER BACKBOXES DUE TO CABLE FILL. REFER TO

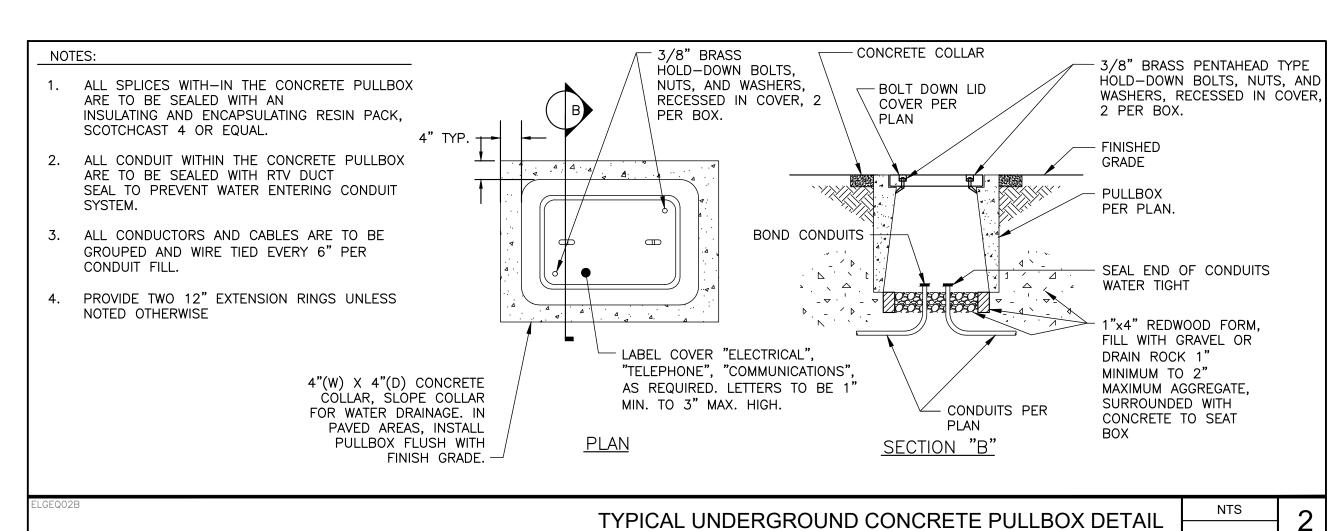
NEC FOR SIZING, DETAIL SHOWS TYPICAL

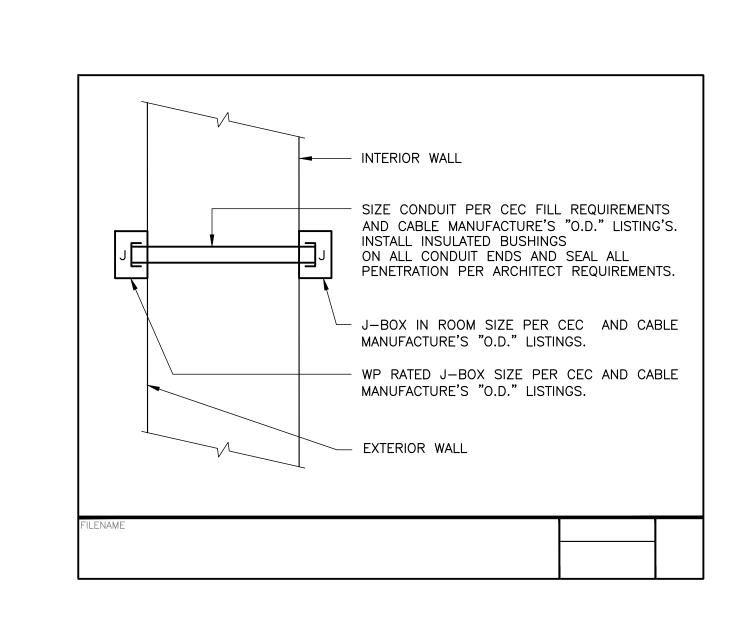
INSTALLATION.

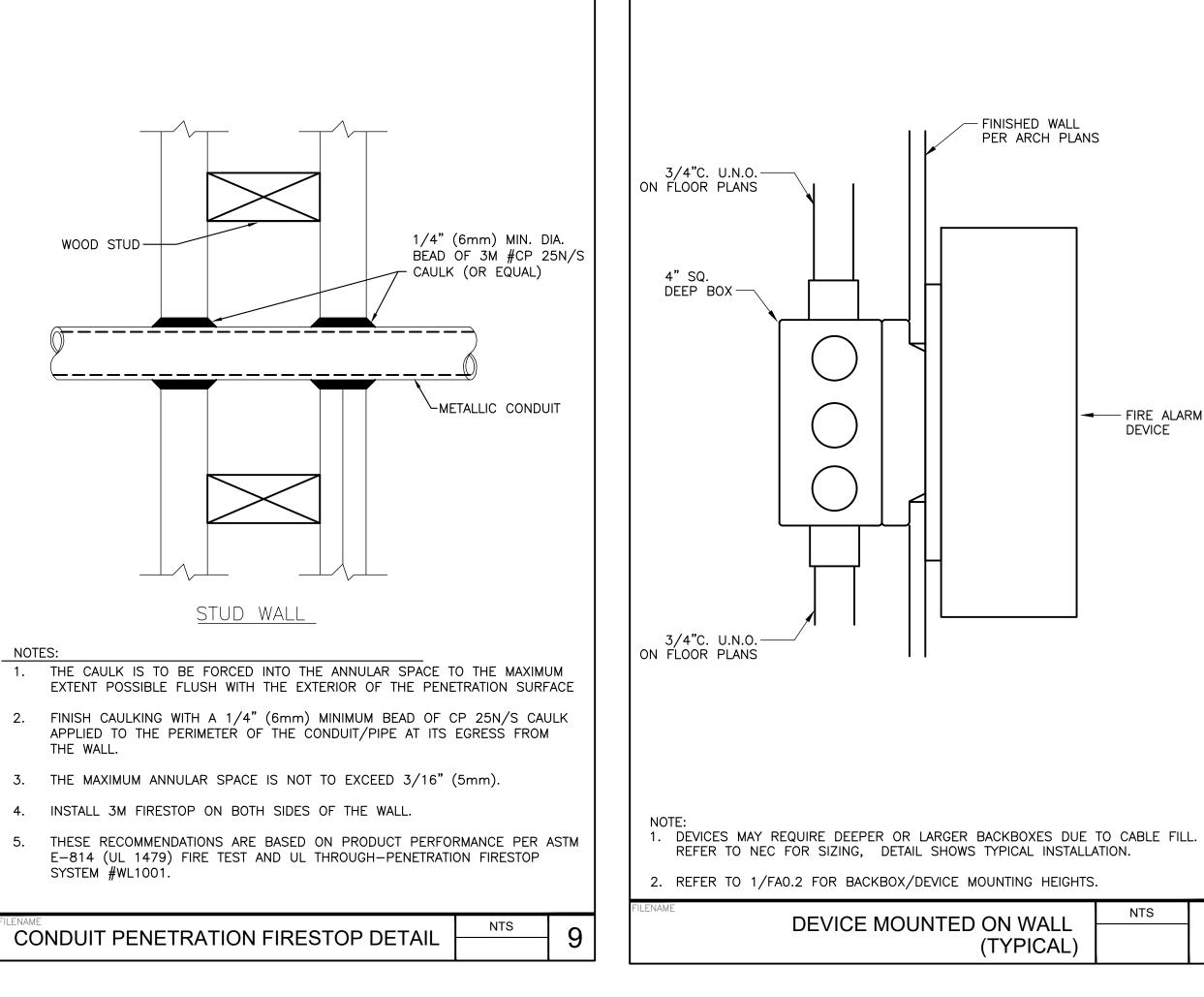


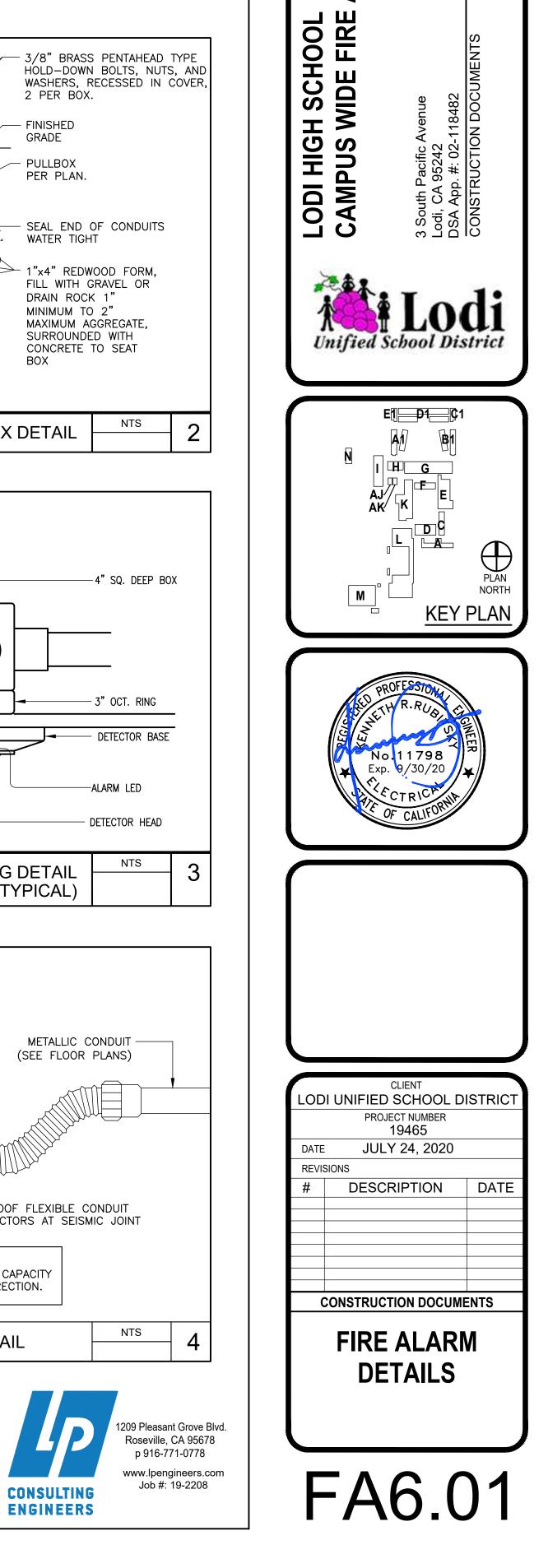












IDENTIFICATION STAMP DIV. OF THE STATE ARCHITE

APP: 02-118482 INC: REVIEWED FOR SS 🗌 FLS 🗹 ACS 🗌

ARCHITECT

SACRAMENTO

2520 Venture Oaks Way, Suite 440

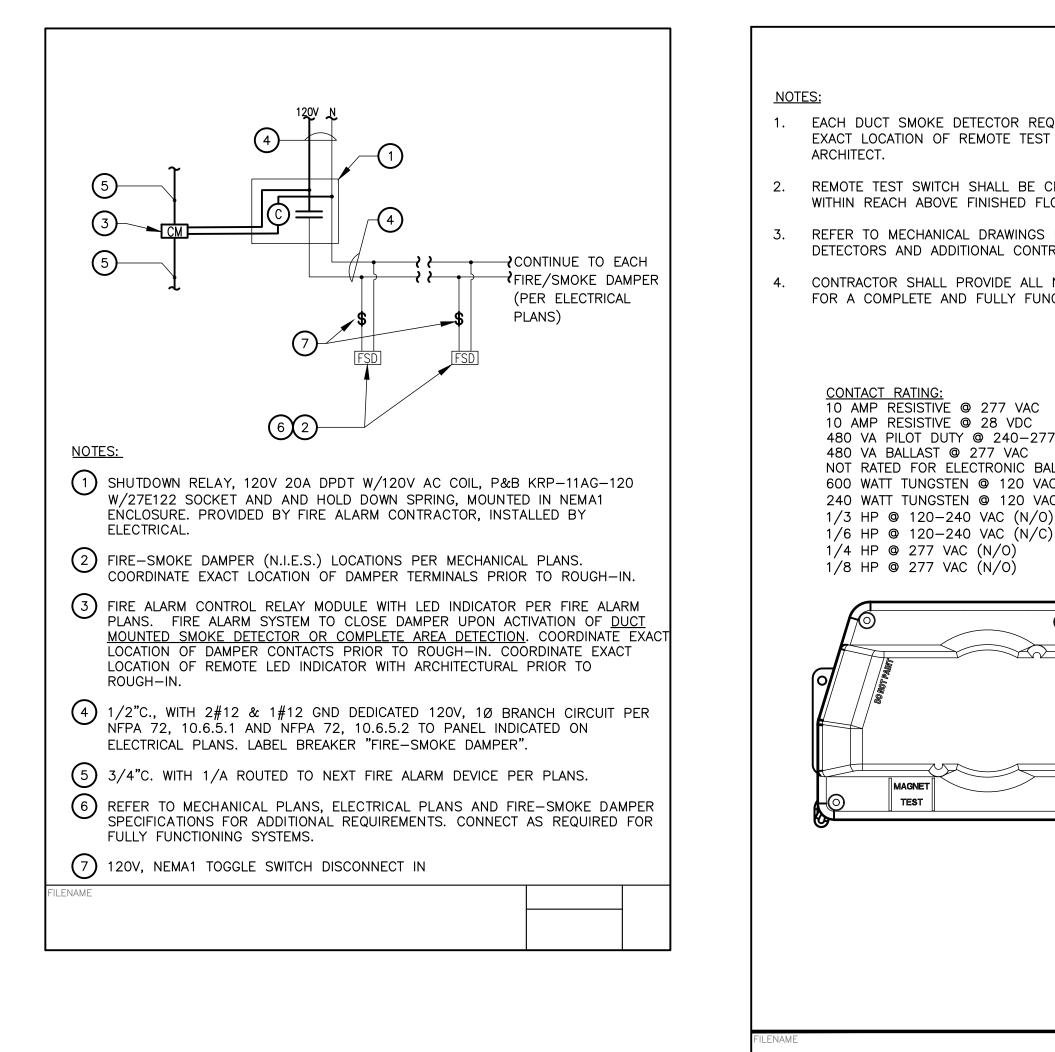
Sacramento, CA 95833 916-682-9494 P

916-682-0990 F

MEPT ENGINEER LP Consulting Engineers, Ir

1209 Pleasant Grove Blvd.

Roseville, CA 95678 916-771-0778 P



ELEVATOR

ELEVATOR

MOTOR

- ENCLOSED CIRCUIT

SHUNT TRIP IN

ROOM

BREAKER WITH 120V

ELEVATOR MACHINE

MOMENTARY CONTACT

AT CIRCUIT BREAKER

ALTERNATE

THER LOBBIES (2)

LEVEL &

MACHINE ROOM f U f -

LEVEL ①—

AT DESIGNATED

DESIGNATED

LEVEL LOBBY

N.O. TEST

PUSH-BUTTON

ENCLOSURE

POWER SHUTDOWN - SHUNT TRIP OPERATION (NFPA 72)

DETECTOR TO ACTIVATE. SHUNT TRIP OPERATES, REMOVING

FIRE ALARM CONTROL RELAY CONTACTS CLOSE

EACH ELEVATOR SHUNT TRIP ACTIVATED ONLY BY

EMR COMMON SHAFTS, PITS OR EMR SHALL

SHUT OFF POWER TO ALL ELEVATORS.

18" OF SPRINKLER HEADS.

HEAT DETECTORS IN ASSOCIATED SHAFT, PIT &

COORDINATE HEAT DETECTOR LOCATIONS WITHIN

LOSS OF SHUNT TRIP CIRCUIT VOLTAGE CAUSES

SUPERVISORY SIGNAL IN FIRE ALARM SYSTEM.

UPON ALARM FROM SHAFT, PIT OR HEAT

SYSTEM. SMOKE DETECTOR ACTIVATES, CAUSING ELEVATOR

RECALL. ELEVATOR ARRIVES AT THE DESIGNATED RECALL

FLOOR AND OPEN DOORS. HEAT BUILDUP CAUSES HEAT

POWER FROM ELEVATOR. SPRINKLERS THEN OPERATE.

NOTES:

INSTALL A COMPLETE ELEVATOR POWER SHUTDOWN

120V

BREAKER IN PANEL

- TEST PUSHBUTTON

ELEVATOR CIRCUIT

BREAKER SHUNT TRIP

- FIRE ALARM CONTROL

CONTACTS

CONTACTS

120V, N.O. AUX. ALARM

- 120V RELAY WITH N.C.

- FIRE ALARM MONITOR

MODULE (SUPERVISES

SHUNT TRIP CONTROL

POWER CIRCUIT VOLTAGE)

NTS

**ELEVATOR** 

CONTROLLER

AND CAR

TO DESIGNATED

TO ALTERNATE

NTS

RELAY RECALL CAR

RELAY RECALL CAR

WITHIN CONTROLLER

— 1P-20A CIRCUIT

N.O.

M1.4

SCHEMATIC - ELEVATOR SHUNT TRIP

BUILDING ELEVATOR RECALL

THE ACTIVATION OF SMOKE DETECTORS IN ELEVATOR LOBBIE ON FLOOR 2 CAUSE

LOBBY ON FIRST FLOOR IS GENERAL ALARM ONLY. PHASE I RECALL IS EMULATED

**ELEVATOR RECALL DIAGRAM** 

THE ELEVATOR CAR TO RETURN NONSTOP (RECALL) TO THE DESIGNATED LEVEL

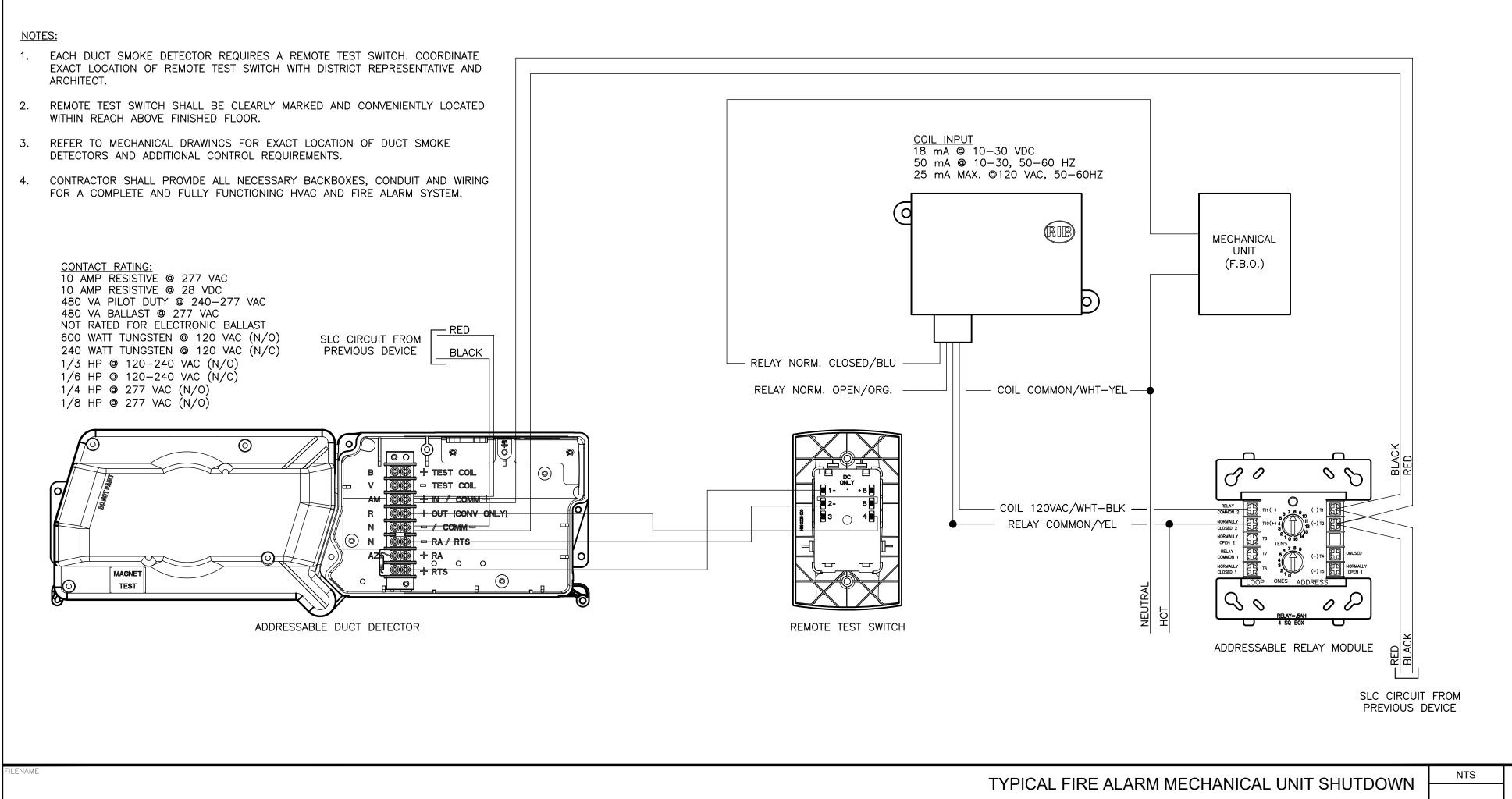
(GROUND FLOOR). PHASE I RECALL MAINTAINS ELEVATOR CAR INOPERABLE UNTIL

SYSTEM OPERATION IS RESET. ACTIVATION OF SMOKE DETECTOR IN ELEVATOR

BY RELAY WITHIN 3'-0" OF CONTROLLER IN ELEVATOR EQUIPMENT ROOM.

FIRE ALARM

CONTROL UNIT



STROBE

24 VDC

STROBE POINT TO POINT DIAGRAM

DATA DATA
OUT IN

SMOKE/CO DETECTOR

AND RELAY BASE

CO/SMOKE DETECTOR

POINT TO POINT DIAGRAM

FROM PRECEEDING

DEVICE OR FACP

SLC DATA IN FROM

24 Vdc in FROM

POWER SUPPLY

OR PREVIOUS

BASE

110VAC OR 24VDC IN \_\_\_

PREVIOUS DEVICE

OR FACP

TO NEXT

DEVICE

OR EOL

RESISTOR

NTS

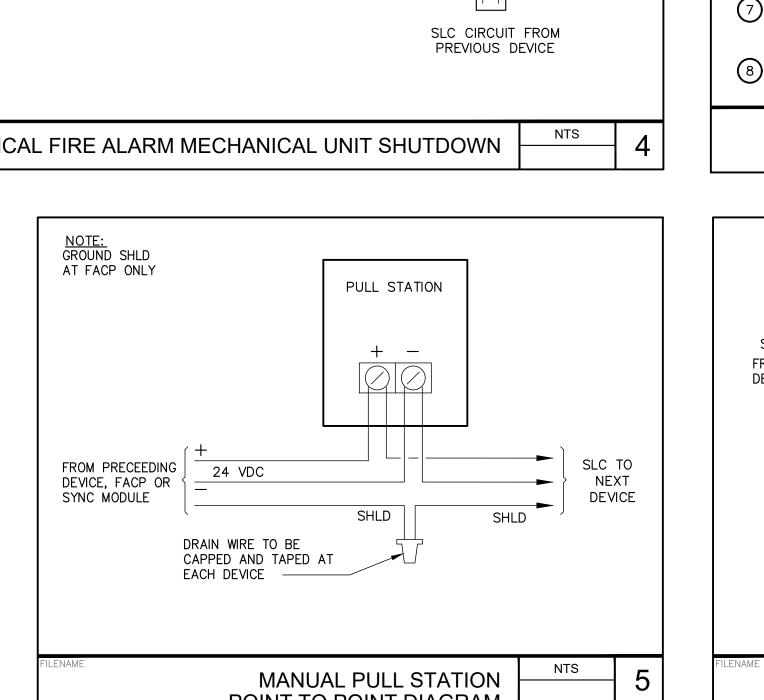
SLC DATA OUT TO
NEXT DEVICE OR

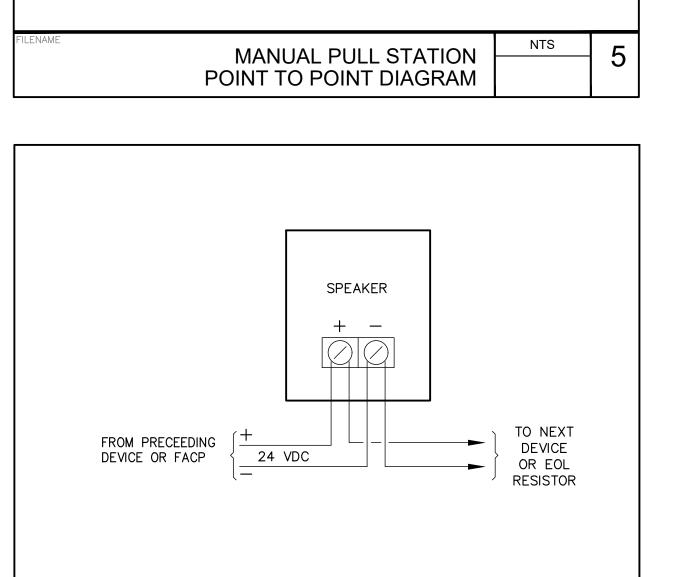
24 Vdc out TO

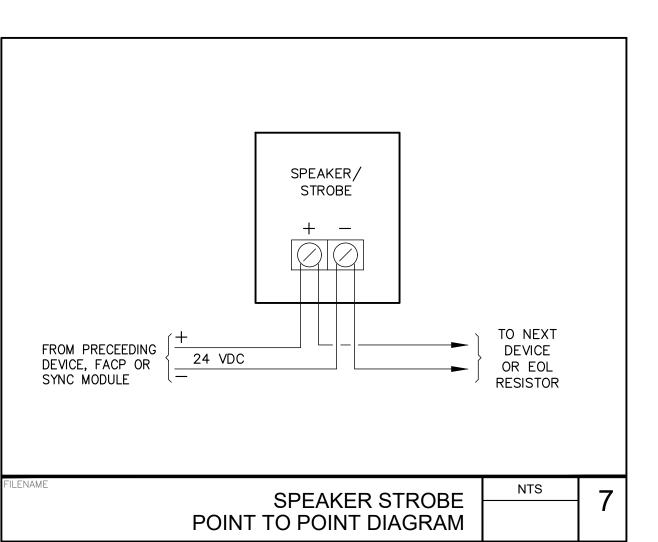
NEXT BASE OR

NTS

FACP

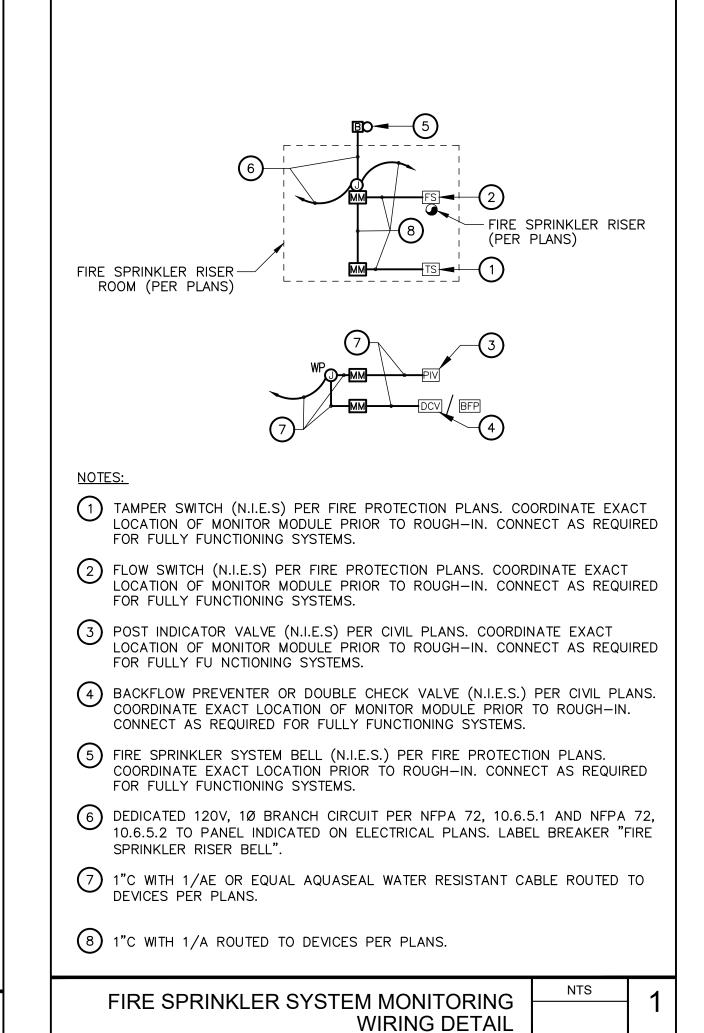


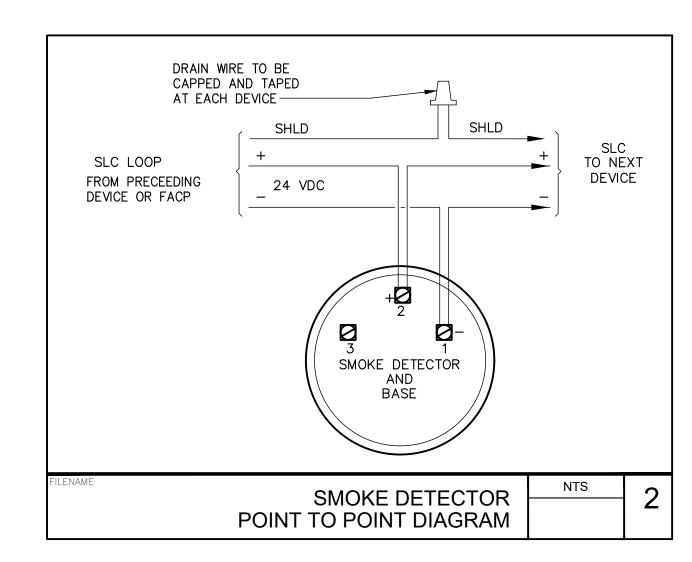


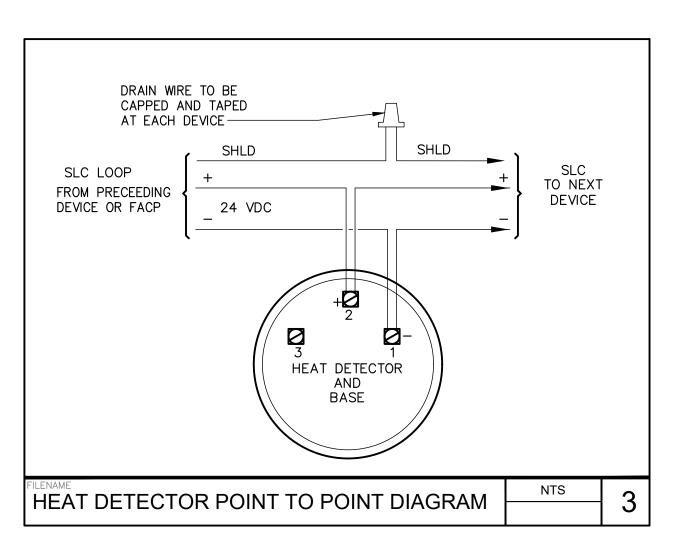


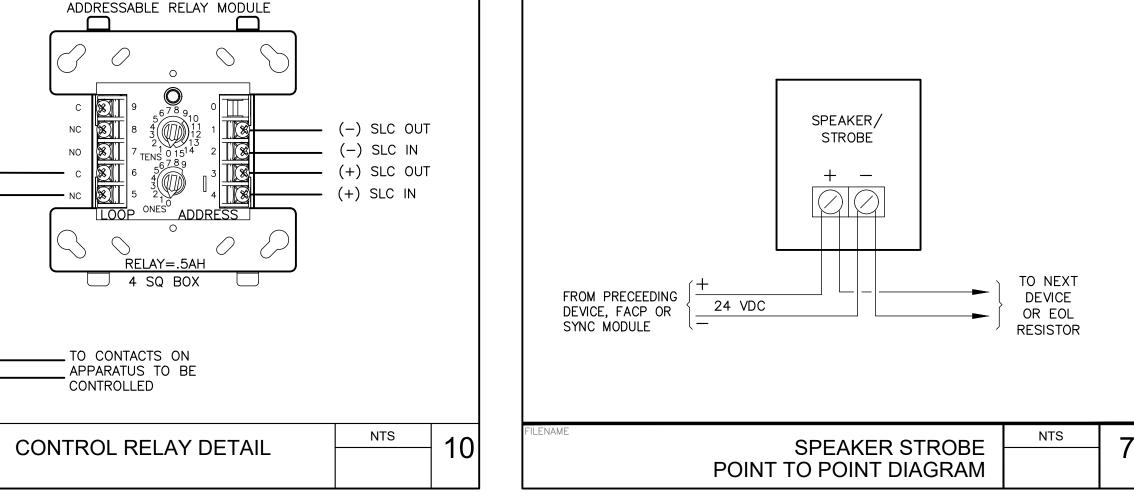
SPEAKER POINT TO POINT DIAGRAM

NTS













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APP: 02-118482 INC: REVIEWED FOR

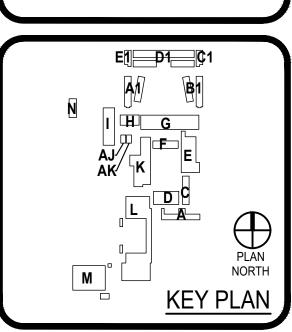


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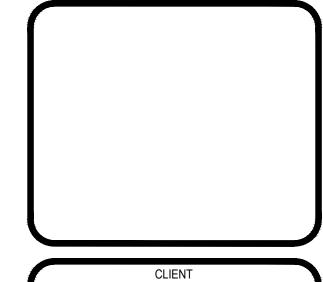
I HIGH SCHOOL IPUS WIDE FIRE

LODI 3 Sou Lodi, DSA











FA6.02