

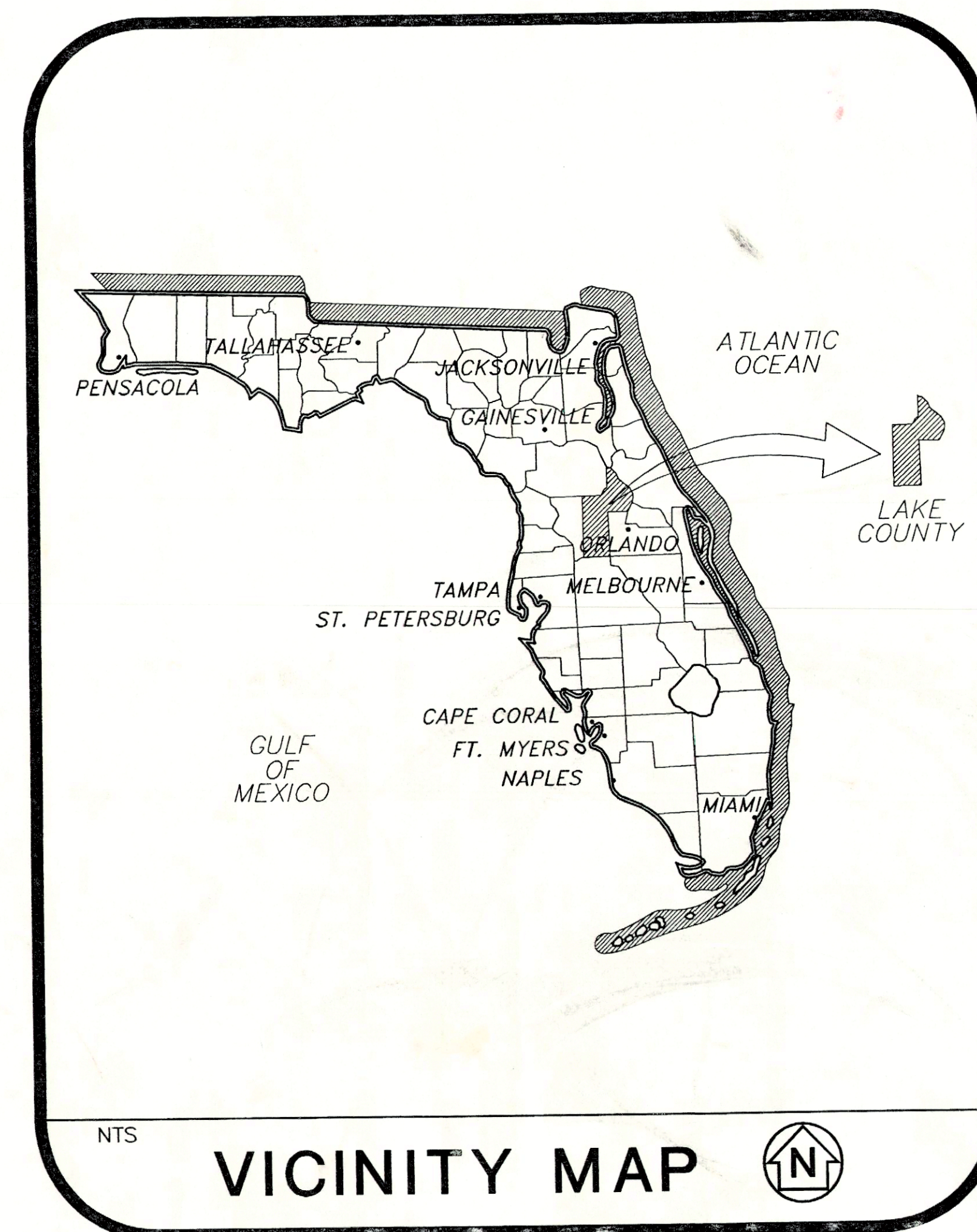
FIRE ALARM UPGRADES LAKE COUNTY AREA VO-TECH

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VICINITY MAP

DRAWING #	DRAWING TITLE	REV
EC-1	ELECTRICAL COVER SHEET	
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DRAWING INDEX

NOTE: TO THE BEST OF OUR KNOWLEDGE, THESE DRAWINGS AND THE PROJECT MANUAL ARE COMPLETE AND COMPLY WITH THE "STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES, 1999".



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FIRE ALARM UPGRADES
LAKE COUNTY AREA VO-TECH
LAKE COUNTY SCHOOLS
ELECTRICAL COVER SHEET

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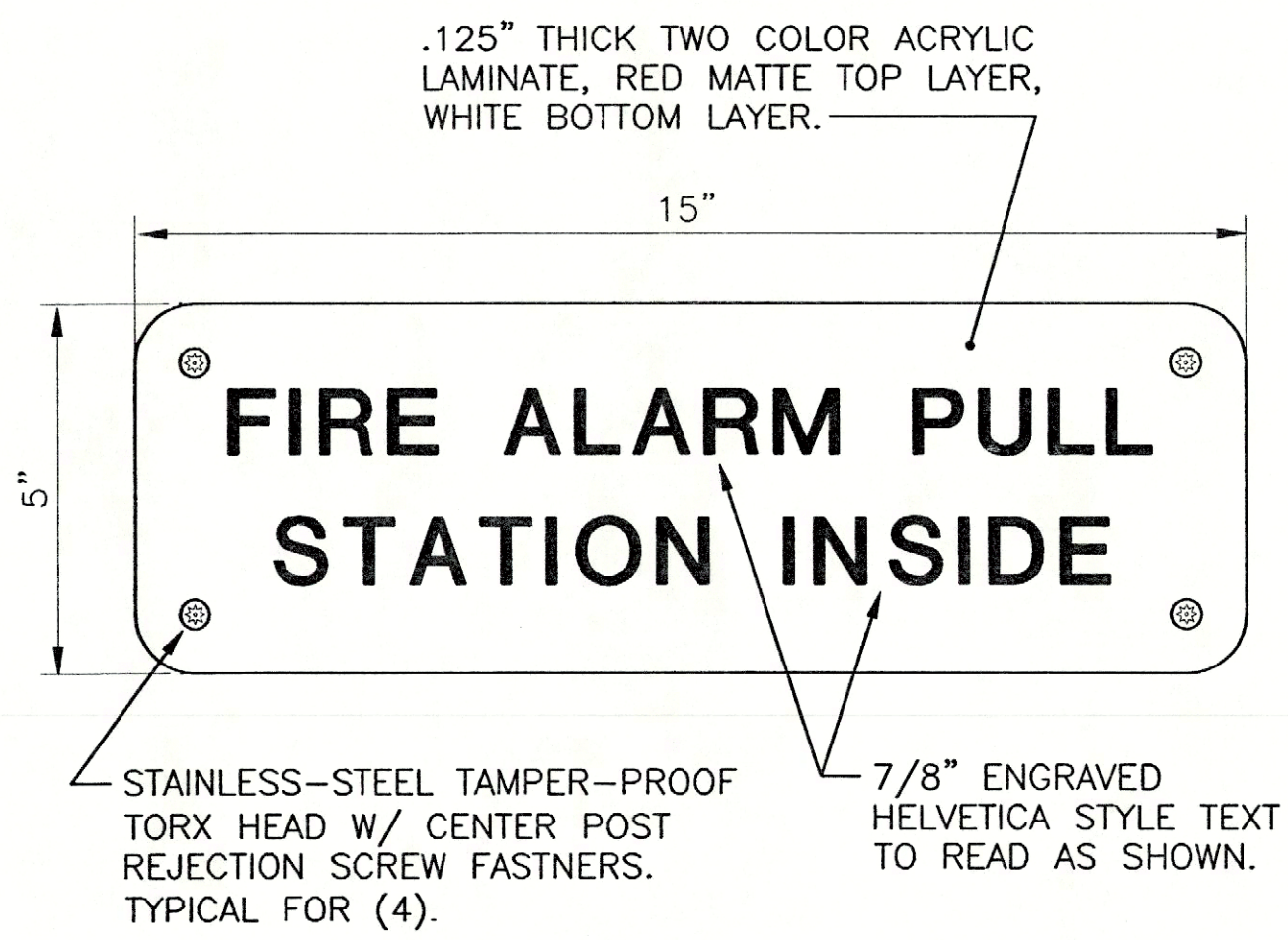
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(APPLIES TO ALL ELECTRICAL DRAWINGS.)

A	AMPERES	HID	HIGH INTENSITY DISCHARGE	O.C.	ON CENTER
AC	ALTERNATING CURRENT	HOA	HAND-OFF-AUTOMATIC SELECTOR SWITCH	OL	OVERLOAD
AFF	ABOVE FINISHED FLOOR	HP	HORSEPOWER	P	POLE
AFG	ABOVE FINISHED GRADE	HVAC	HEATING, VENTILATING & AIR CONDITIONING	PB	PUSHBUTTON STATION
AHU	AIR HANDLING UNIT	HZ	HERTZ	PC	PHOTOCELL
AM	AMMETER	IMC	INTERMEDIATE METAL CONDUIT	PNL	PANEL
AS	AMMETER SELECTOR	INC	INCANDESCENT	PVC	POLYVINYL CHLORIDE
ASY	ASYMMETRICAL	IG	ISOLATED GROUND	RM	ROOM
AWG	AMERICAN WIRE GAUGE	J	JUNCTION BOX	RCS	RIGID GALVANIZED STEEL
C	CONDUIT	KAIC	(THOUSAND) AMPERE INTERRUPTING	RECIP	RECEPTACLE
CB	CIRCUIT BREAKER	KVA	KILOVOLT-AMPERES	SN	SOLID NEUTRAL
CH	COUNTER HEIGHT	KW	KILOWATT	SPEC	SPECIFICATION
CKTS	CIRCUITS	LA	LIGHTNING ARRESTOR	SQ	SQUARE
CONC	CONCRETE	LC	LIGHTING CONTACTOR	SW	SWITCH
CTS	CURRENT TRANSFORMER	LED	LIGHT EMITTING DIODE	SWBD	SWITCHBOARD
DISC	DISCONNECT	LTG	LIGHTING	SYM	SYMMETRICAL
DN	DOWN	MAX	MAXIMUM	TEL	TELEPHONE
DWG	DRAWING	MECH	MECHANICAL	TS	TIMESWITCH
EDH	ELECTRIC DUCT HEATER	MH	METAL HALIDE	TB	TELEPHONE TERMINAL BOARD
EF	EXHAUST FAN	MIN	MINIMUM	TV	TELEVISION
ELEC	ELECTRICAL	N	NEUTRAL	TYP	TYPICAL
EM	EMERGENCY	NA	NOT APPLICABLE	UG	UNDERGROUND
EMT	ELECTRICAL METALLIC TUBING	NAC	NOTIFICATION APPLIANCE CIRCUIT	UL	UNDERWRITER'S LABORATORIES
EP	EXPLOSION PROOF	N.C.	NORMALLY CLOSED	UN	UNLESS OTHERWISE NOTED
EPO	ELECTRIC POWER OFF	NF	NON-FUSED	V	VOLTS
EUH	ELECTRIC UNIT HEATER	NEC	NATIONAL ELECTRICAL CODE	VA	VOLT AMPERES
EWC	ELECTRIC WATER COOLER	NEC	NOT IN CONTRACT	VM	VOLTMETER
EW	ELECTRIC WATER HEATER	NL	NIGHT LIGHT	VS	VOLTMETER SELECTOR
EXST	EXISTING	NO	NUMBER	W	WIRE
FACP	FIRE ALARM CONTROL PANEL	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.	WP	WEATHERPROOF
GFI	GROUND FAULT INTERRUPTER	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION		
GND	GROUND	NTS	NOT TO SCALE		
GRC	GALVANIZED RIGID CONDUIT				
GW	GAS WATER HEATER				

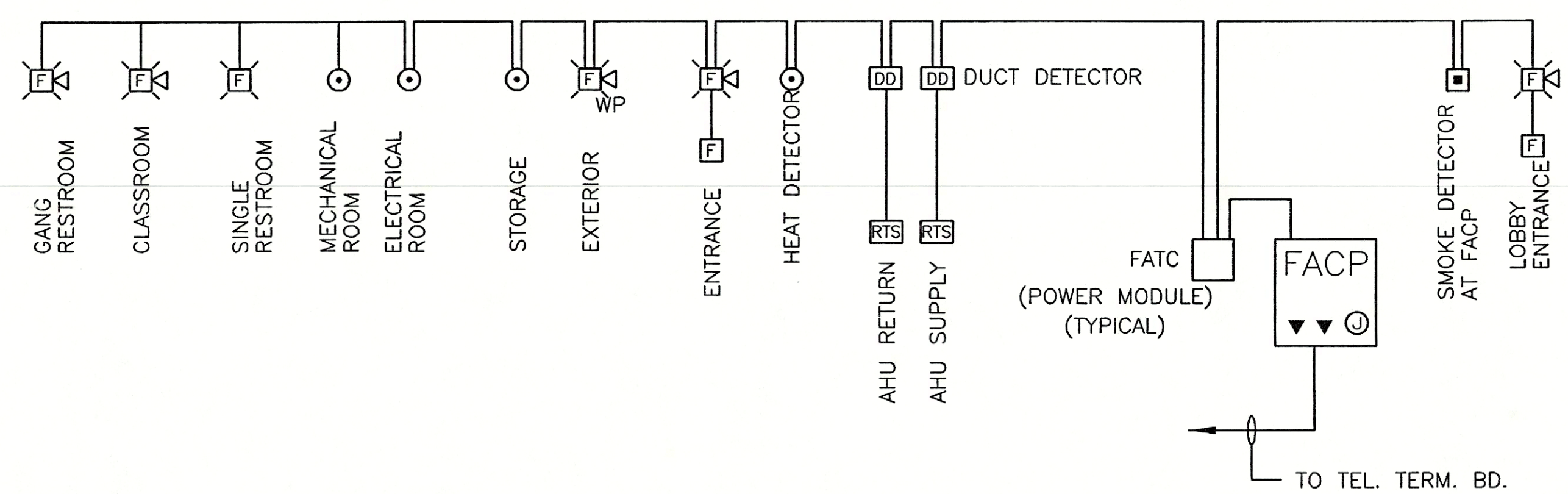
SYMBOLS, NOTES & ABBREVIATIONS

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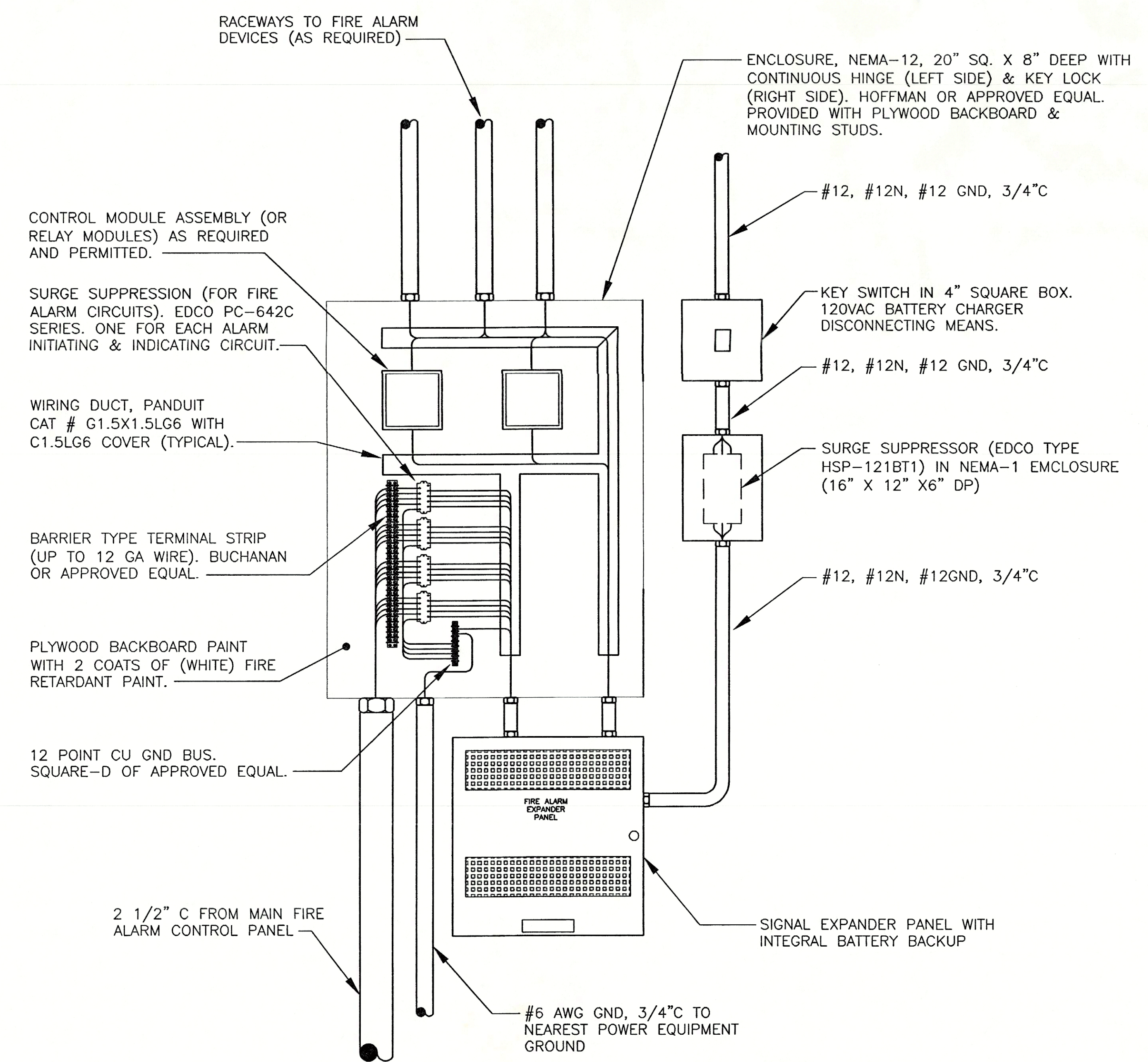


SIGNAGE - PULL STATION
N.T.S.

- NOTES:
1. ALL INTERIOR FIRE ALARM PULL STATIONS SHALL HAVE SIGNAGE AT THE NEAREST EXTERIOR DOOR.
 2. PROVIDE BRAILLE PICTOGRAM OF MESSAGE ON FIRE ALARM SIGNAGE AS REQUIRED PER DOE SPECIFICATIONS.



TYPICAL FIRE ALARM RISER DIAGRAM
NTS
CONTRACTOR SHALL REFER TO FLOOR PLANS FOR EXACT QUANTITY OF DEVICES.



ALARM POWER MODULE DIAGRAM
NTS
NOTE: ALL FIRE ALARM INITIATING AND INDICATING CIRCUIT CONDUCTORS SHALL BE STRANDED (NO EXCEPTIONS).

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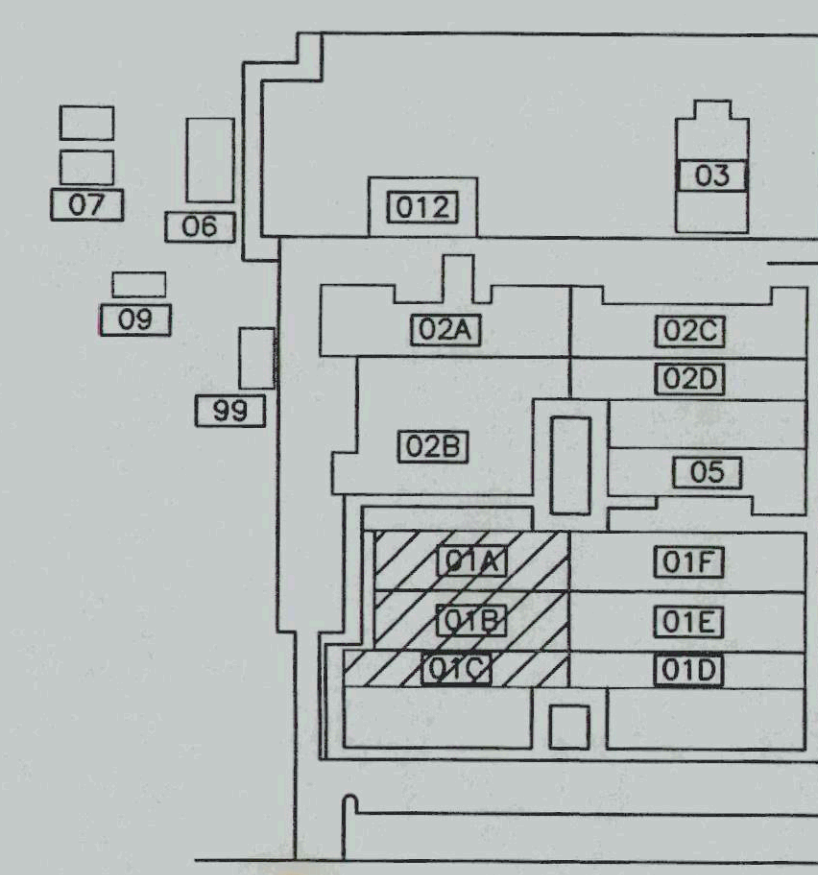
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LAKE COUNTY AREA VO-TECH
LAKE COUNTY SCHOOLS
FIRE ALARM RISER & DIAGRAMS

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NOTES:

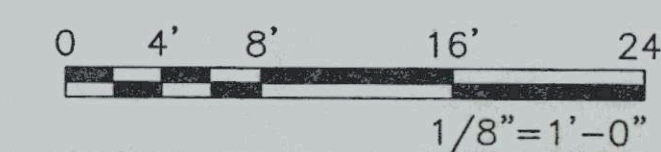
16-1 EXISTING DUCT DETECTOR LOCATIONS. REPLACE EXISTING DETECTORS WITH NEW. PROVIDE NECESSARY EQUIPMENT TO ACCOMMODATE NEW DEVICES.

16-2 NEW FIRE ALARM PANEL LOCATION.



KEY PLAN

NTS



BLDG 01A,01B AND 01C - FIRE ALARM PLAN

$$1/8'' = 1'-0''$$


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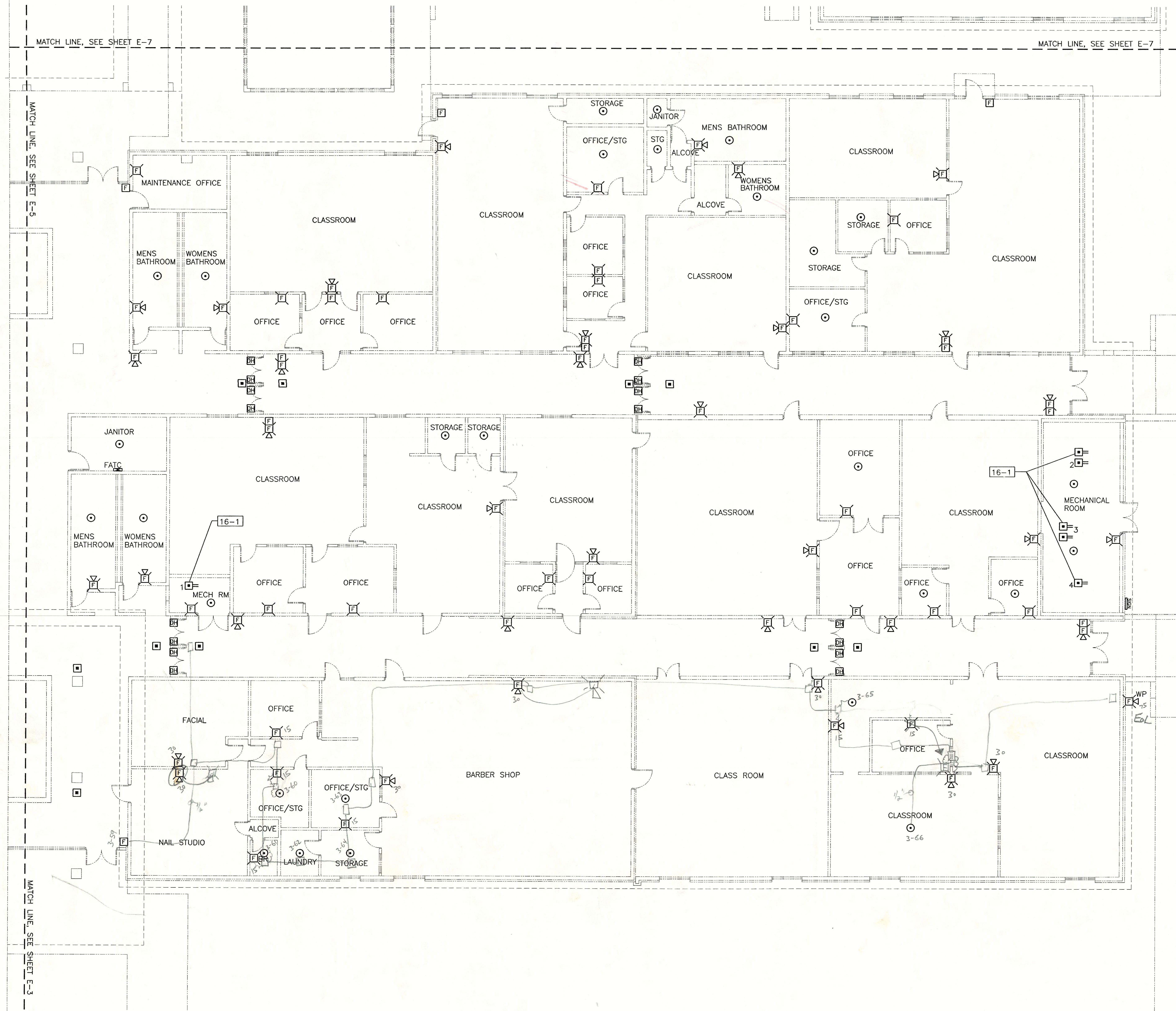
A

B

C

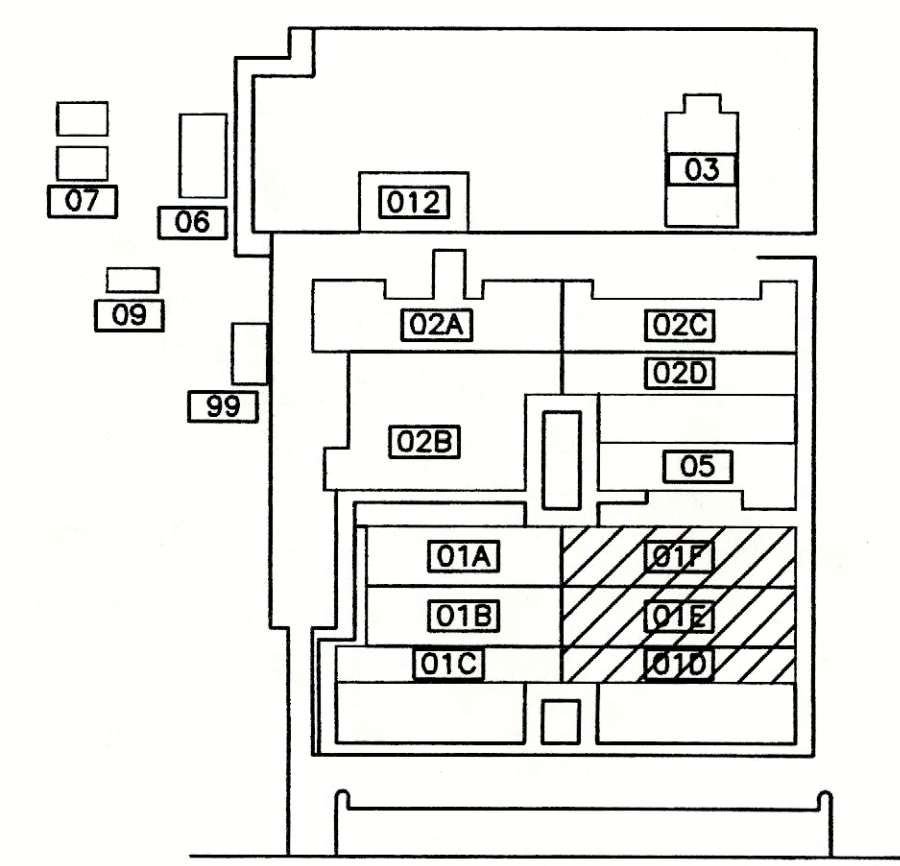
D

E



NOTES:

16-1 EXISTING DUCT DETECTOR LOCATIONS. REPLACE EXISTING DETECTORS WITH NEW. PROVIDE NECESSARY EQUIPMENT TO ACCOMMODATE NEW DEVICES.



KEY PLAN

NTS
0 4' 8' 16' 24'
1/8" = 1'-0"

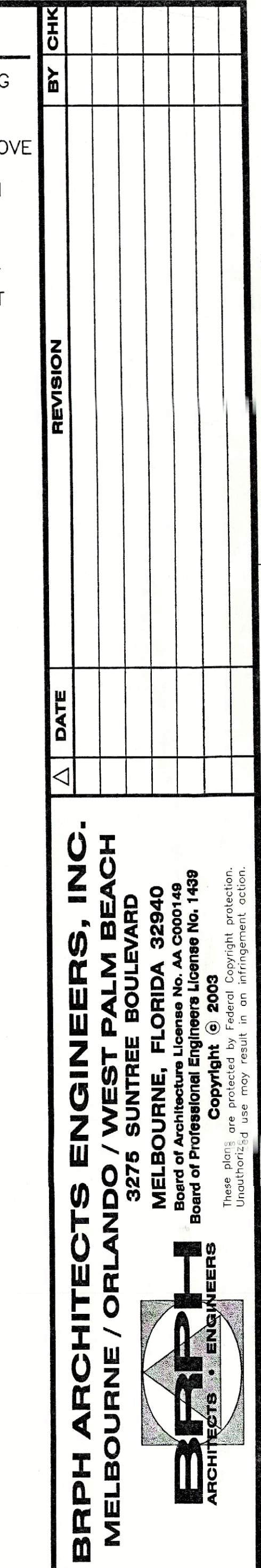
BLDG 01D,01E, AND 01F - FIRE ALARM PLAN
1/8" = 1'-0"

FIRE ALARM UPGRADES
LAKE COUNTY AREA VO-TECH
LAKE COUNTY SCHOOLS
BLDG 01D,01E & 01F FIRE ALARM PLAN

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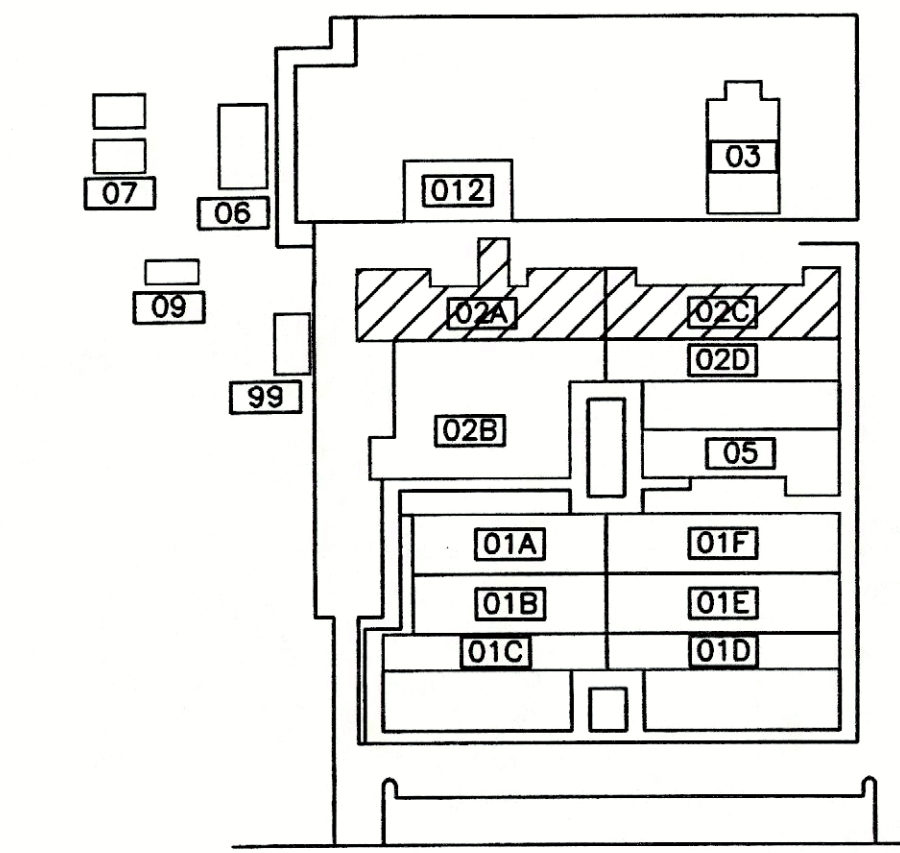
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16-1	RECONNECT NEW FIRE ALARM SYSTEM TO EXISTING PAINT SPRAY BOOTH SHUTDOWN CONTROL.
16-2	PROVIDE OUTLET BOX AND CONDUCTORS, 80" ABOVE FINISHED FLOOR, FOR CONNECTION TO FUTURE PAINT SPRAY EQUIPMENT. VERIFY EXACT LOCATION WITH SHOP INSTRUCTOR.
16-3	PROVIDE AND INSTALL HAZARDOUS AREA HEAT DETECTOR. RELOCATE EXISTING FROM ROOM 103F TO ROOM 103E (NEW PAINT SHAKER ROOM) IF IT CAN BE MADE COMPATIBLE WITH NEW SYSTEM.



**FIRE ALARM UPGRADES
LAKE COUNTY AREA VO-TECH
LAKE COUNTY SCHOOLS**

BLDG 02A & 02C FIRE ALARM PLAN



KEY PLAN

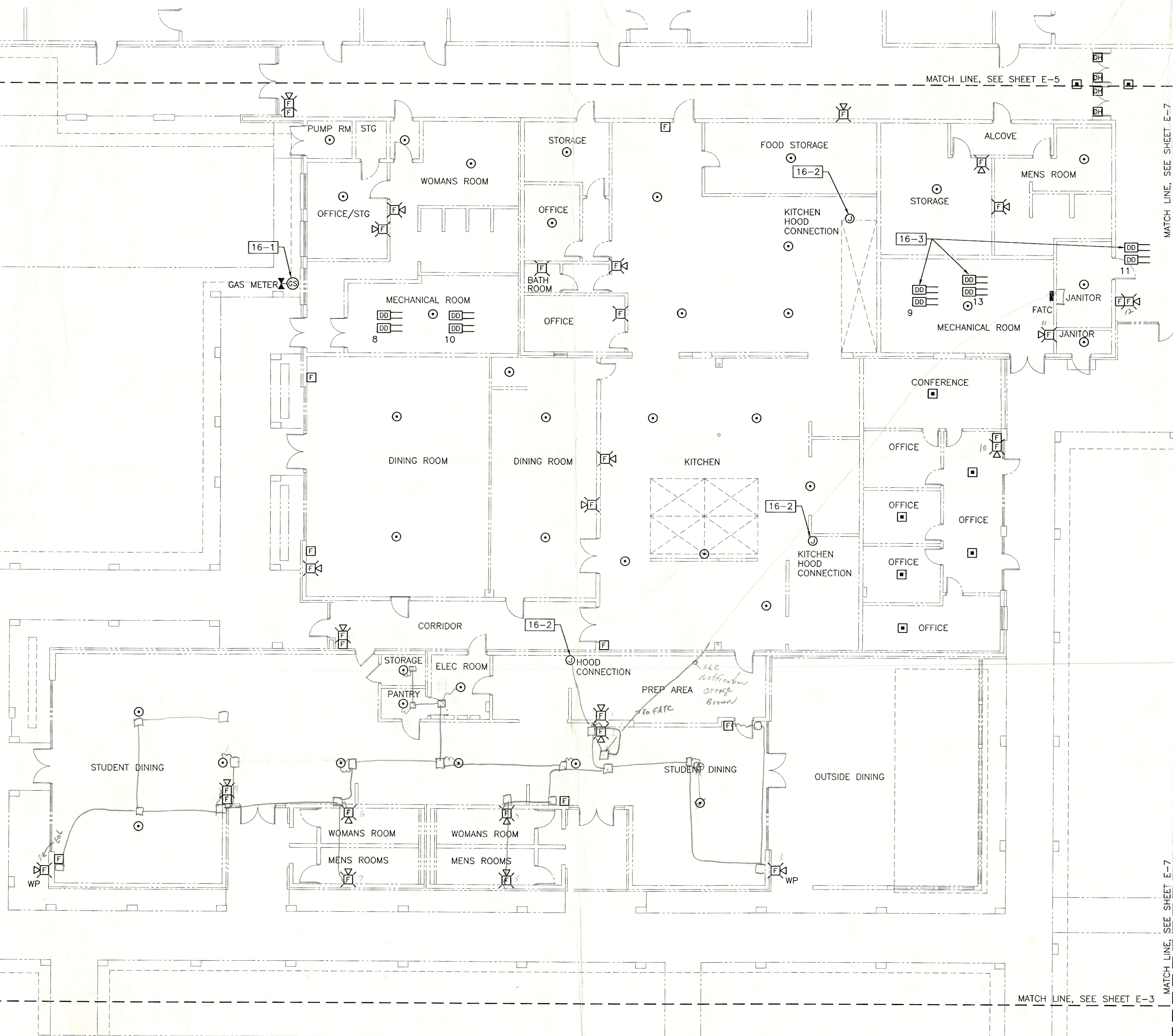
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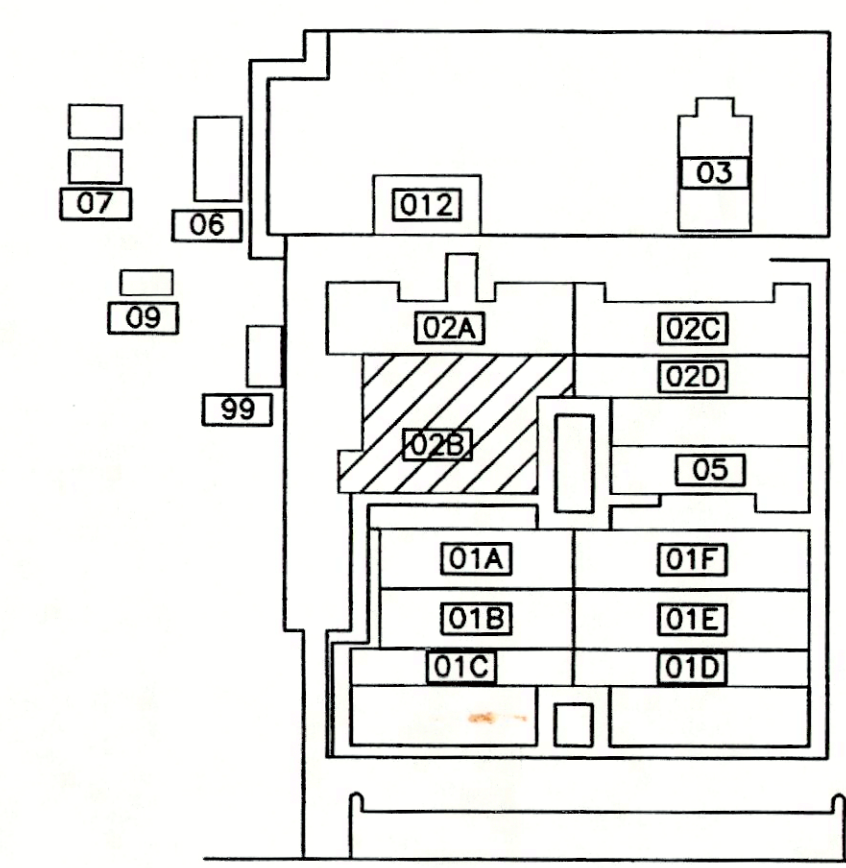


0 4' 8' 16' 24'

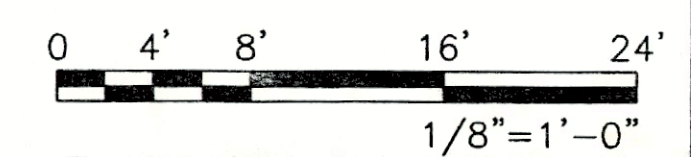
$1/8" = 1' - 0"$

- 16-1 GAS METER AND VALVE LOCATION. PROVIDE SOLENOID VALVE FOR AUTOMATIC SHUTOFF UPON FIRE ALARM SYSTEM ACTIVATION.
- 16-2 RECONNECT NEW FIRE ALARM SYSTEM TO EXISTING KITCHEN HOOD SHUTDOWN CONTROLS.
- 16-3 EXISTING DUCT DETECTOR LOCATIONS. REPLACE EXISTING DETECTORS WITH NEW. PROVIDE NECESSARY EQUIPMENT TO ACCOMMODATE NEW DEVICES.



$$1/8'' = 1'-0''$$


NTS



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FIRE ALARM UPGRADES
LAKE COUNTY AREA VO-TECH
LAKE COUNTY SCHOOLS

BLDG 02B FIRE ALARM PLAN

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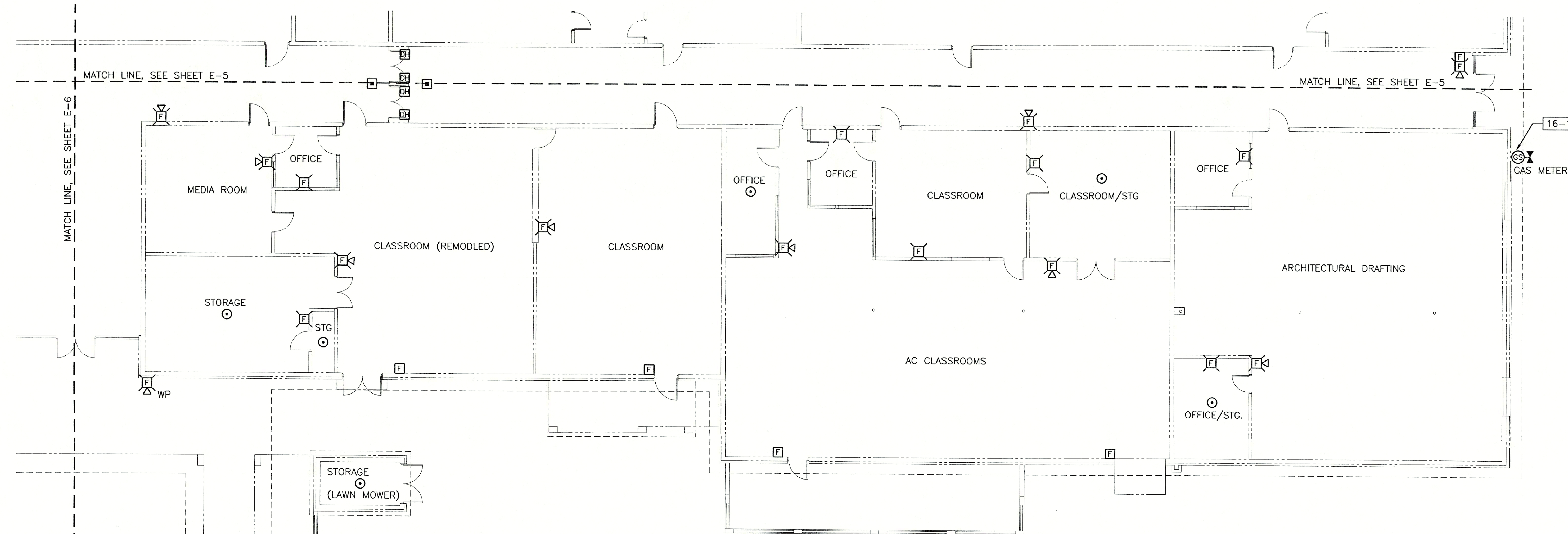
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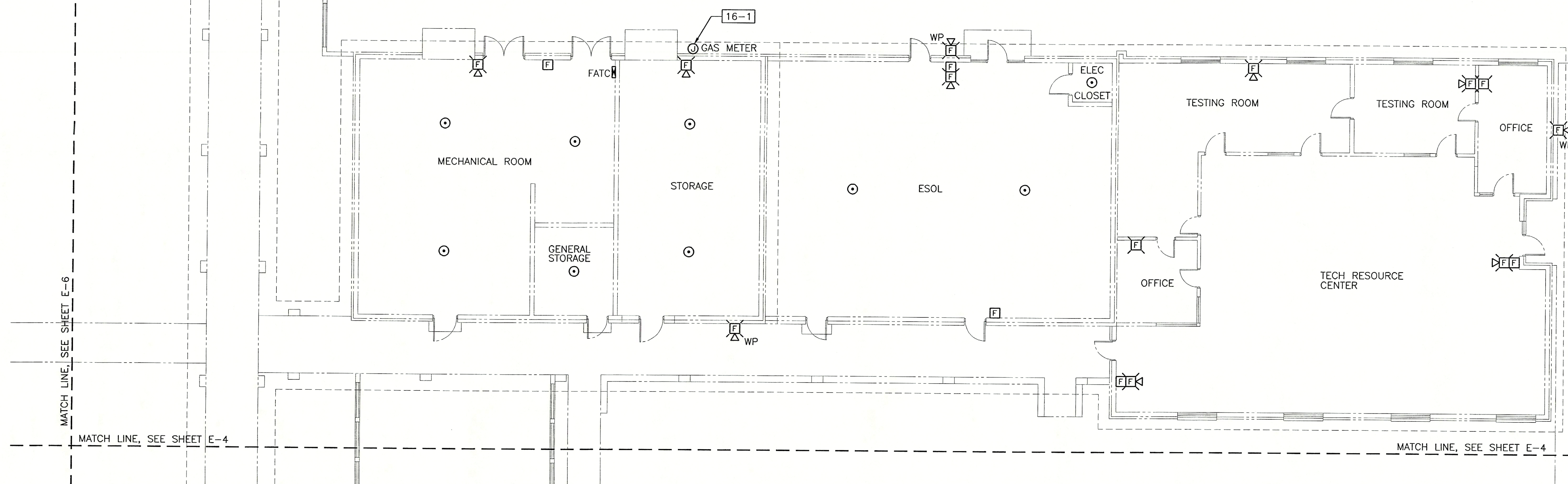
NOTES:

16-1 GAS METER AND VALVE LOCATION. PROVIDE SOLENOID VALVE FOR AUTOMATIC SHUTOFF UPON FIRE ALARM SYSTEM ACTIVATION.



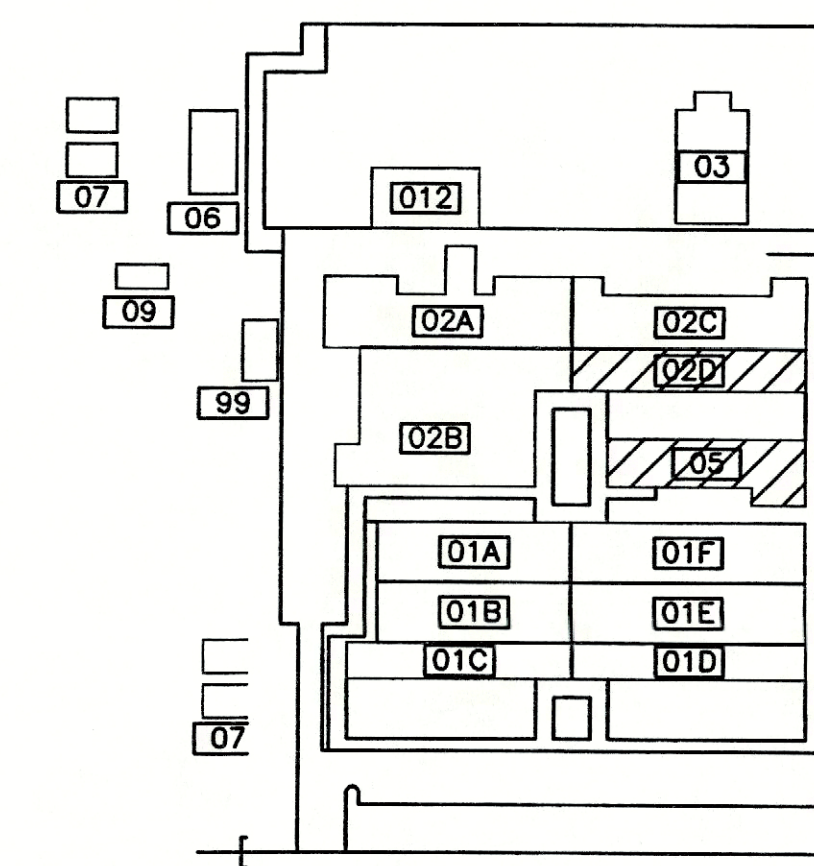
BLDG 02D - FIRE ALARM PLAN

1/8" = 1'-0"



BLDG 05 - FIRE ALARM PLAN

1/8" = 1'-0"



KEY PLAN

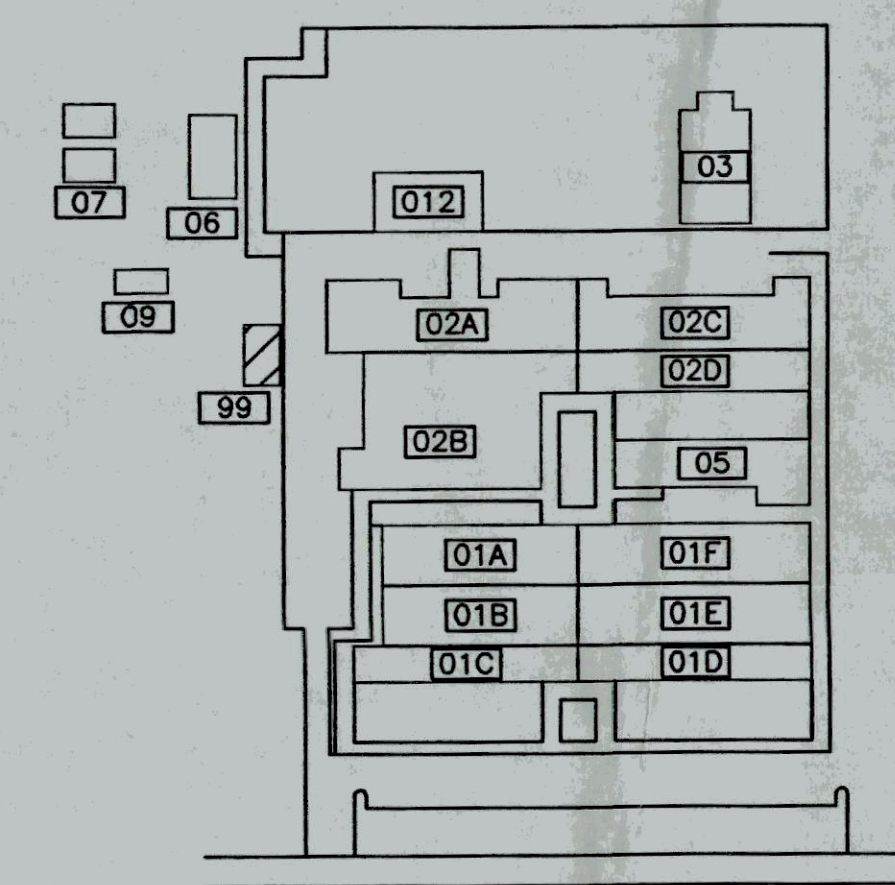
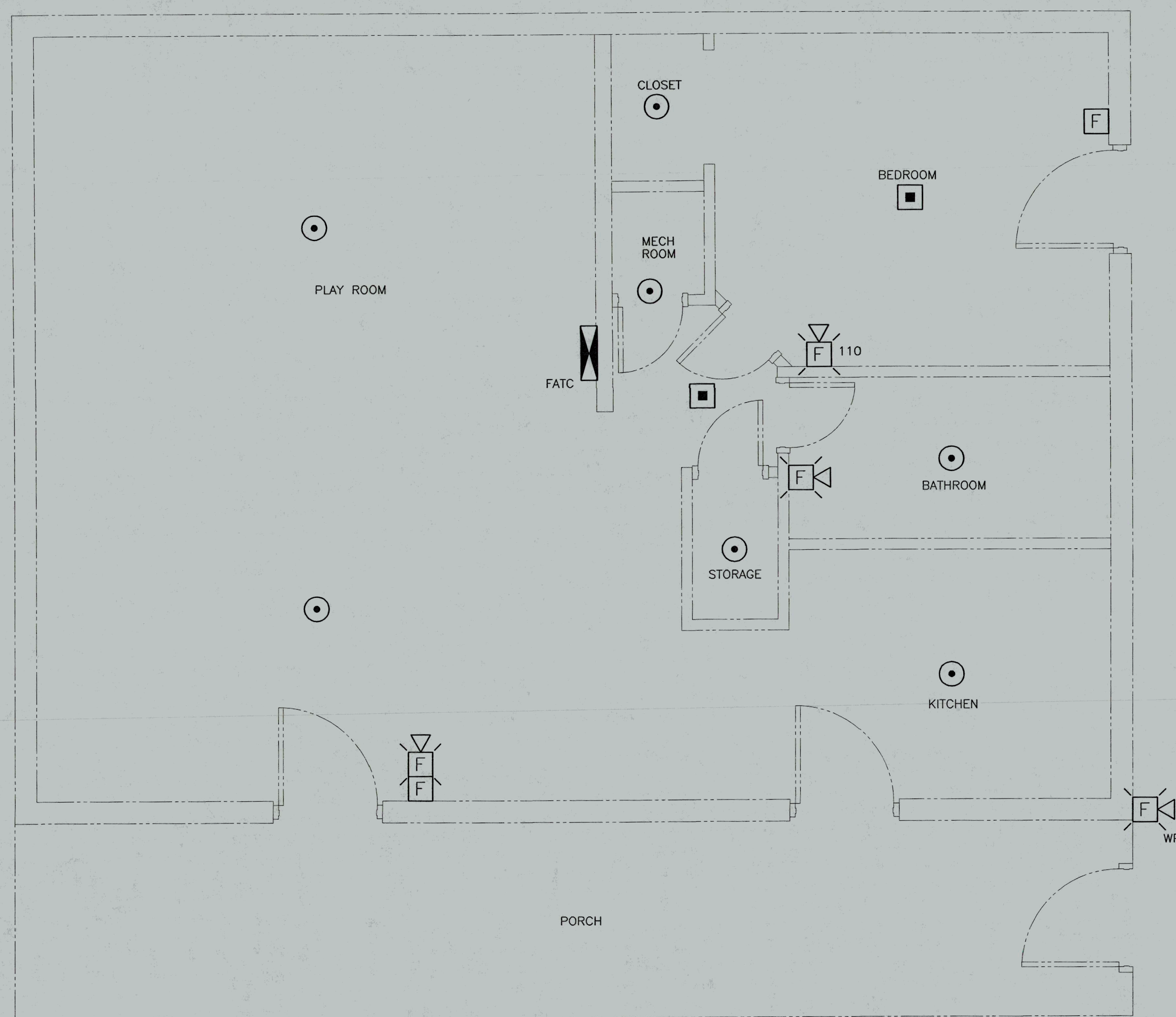
NTS

0 4' 8' 16' 24'
1/8" = 1'-0"

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FIRE ALARM UPGRADES
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BLDG 02D AND 5 FIRE ALARM PLAN

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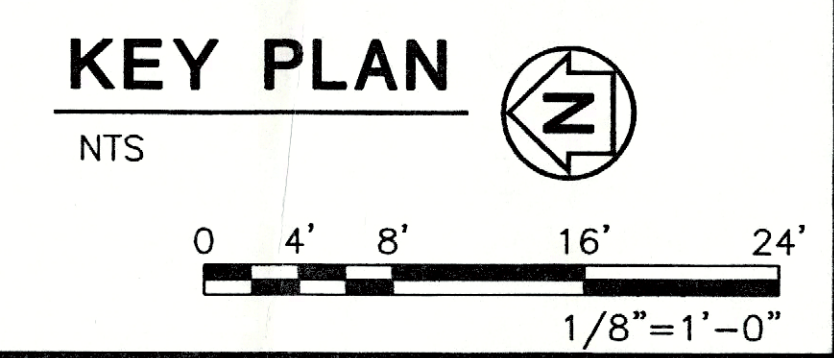
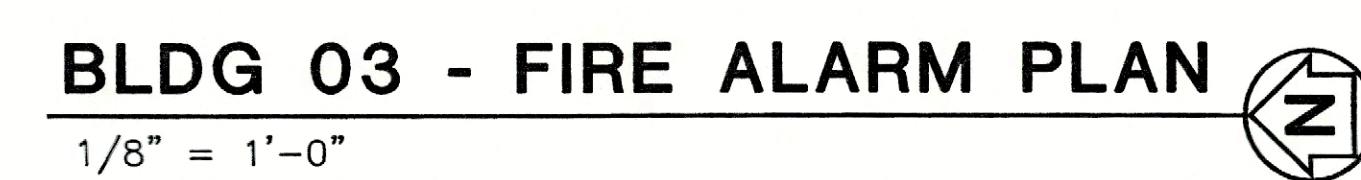
NTS

0 1' 2' 4'

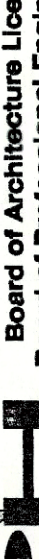
1/2" = 1'

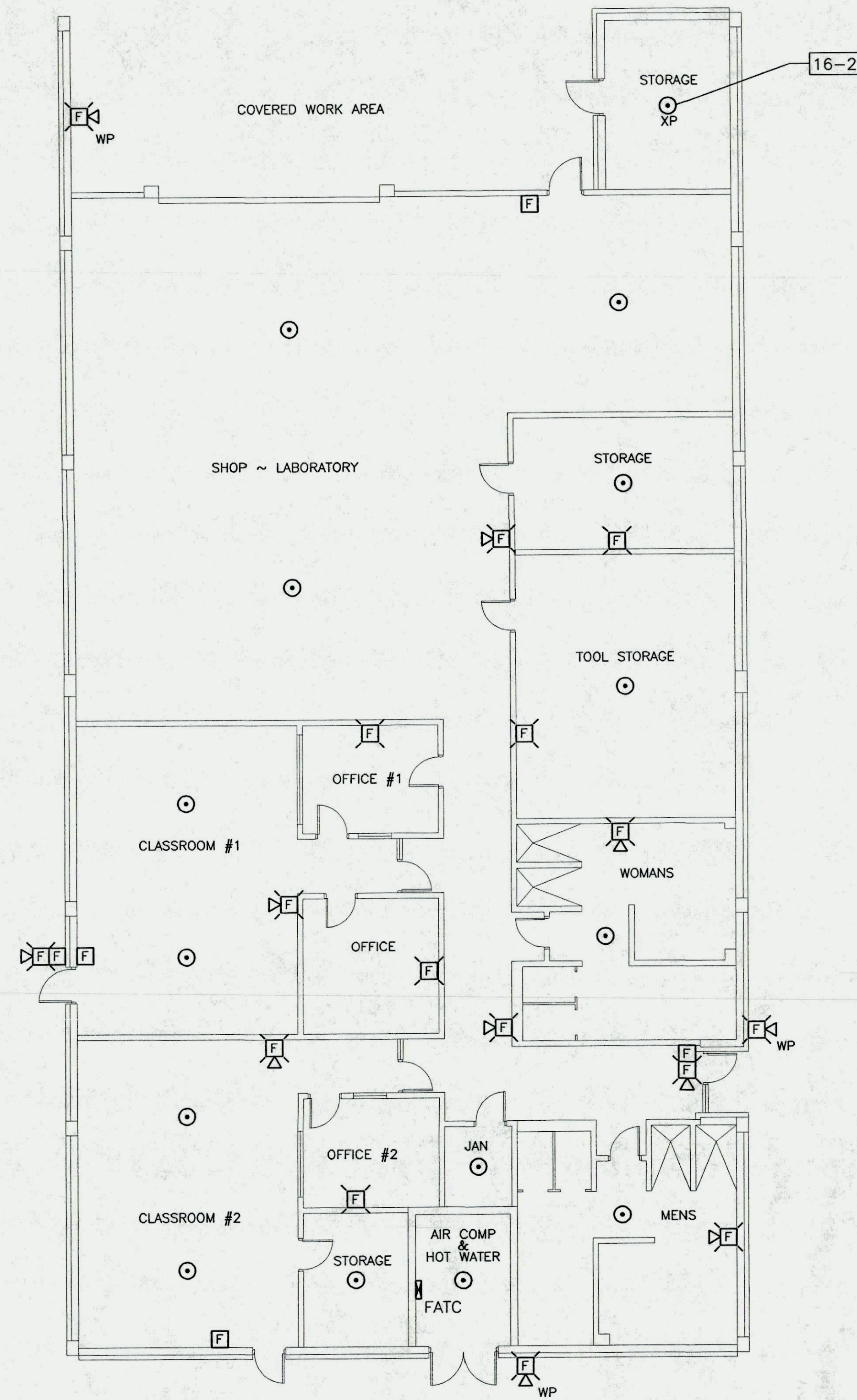
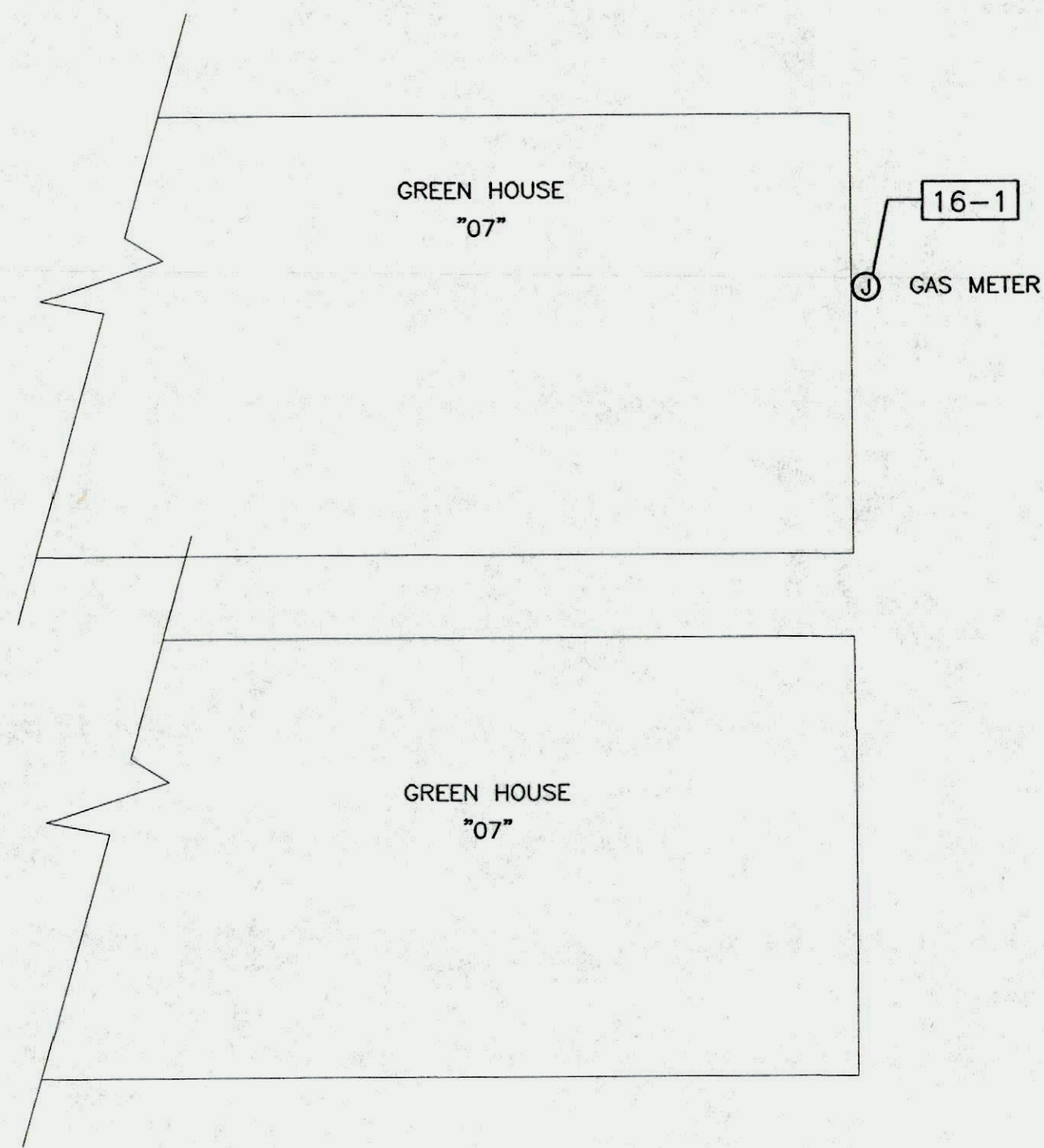
BLDG 99 - FIRE ALARM PLAN
1/2" = 1'-0"



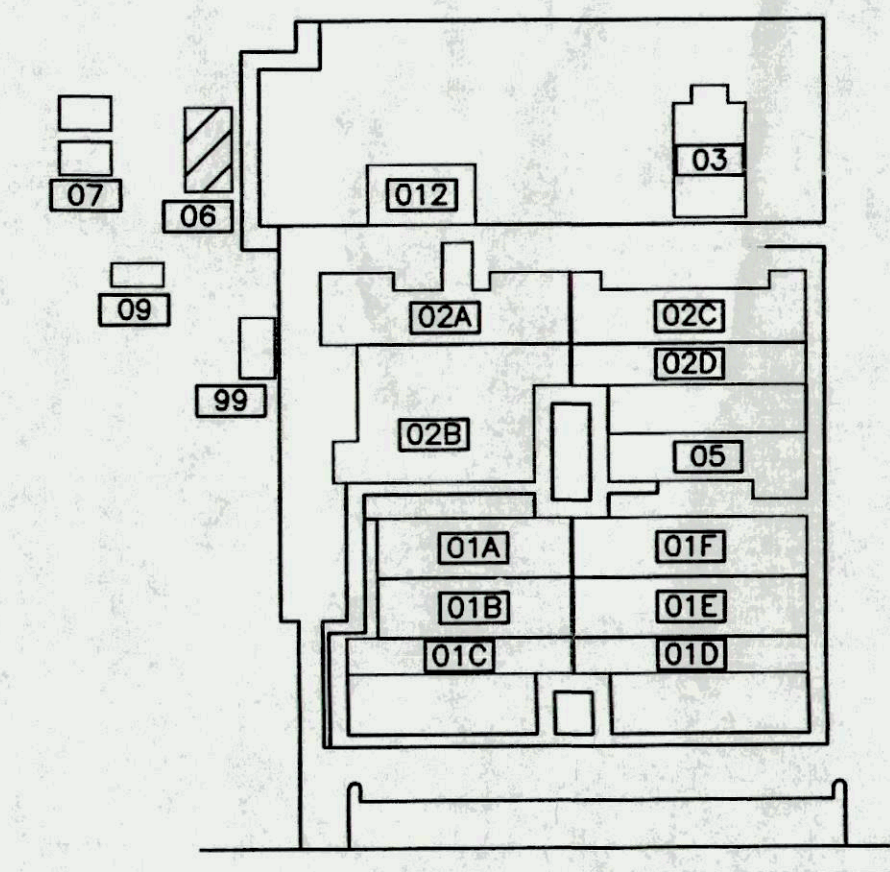
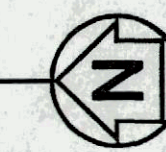


- NOTES:**
-
- 16-1 GAS METER AND VALVE LOCATION. OWNER SHALL HAVE METER REMOVED AND VALVE LOCKED OFF.
- 16-2 PROVIDE HORN EXPANDER FOR FUTURE NEEDS.
- 16-3 UNDERGROUND CONDUIT FROM EXPANDER LOCATION IN BUILDING 3. LOCATE IN OPEN SHOP AS DIRECTED BY OWNER. PROVIDE JUNCTION BOX FOR FUTURE ACCESS.

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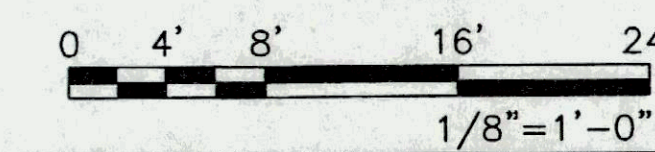


BLDG 06 - FIRE ALARM PLAN
1/8" = 1'-0"



KEY PLAN

NTS



NOTES:

- 16-1 GAS METER AND VALVE LOCATION. OWNER SHALL HAVE METER REMOVED AND VALVE LOCKED OFF.
- 16-2 PROVIDE NECESSARY ACCESSORIES TO MAKE EXISTING HAZARD AREA HEAT DETECTOR ADDRESSABLE OR REPLACE TO MATCH NEW SYSTEM REQUIREMENTS.

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LAKE COUNTY AREA VO-TECH
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BLDG 06- FIRE ALARM PLAN

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