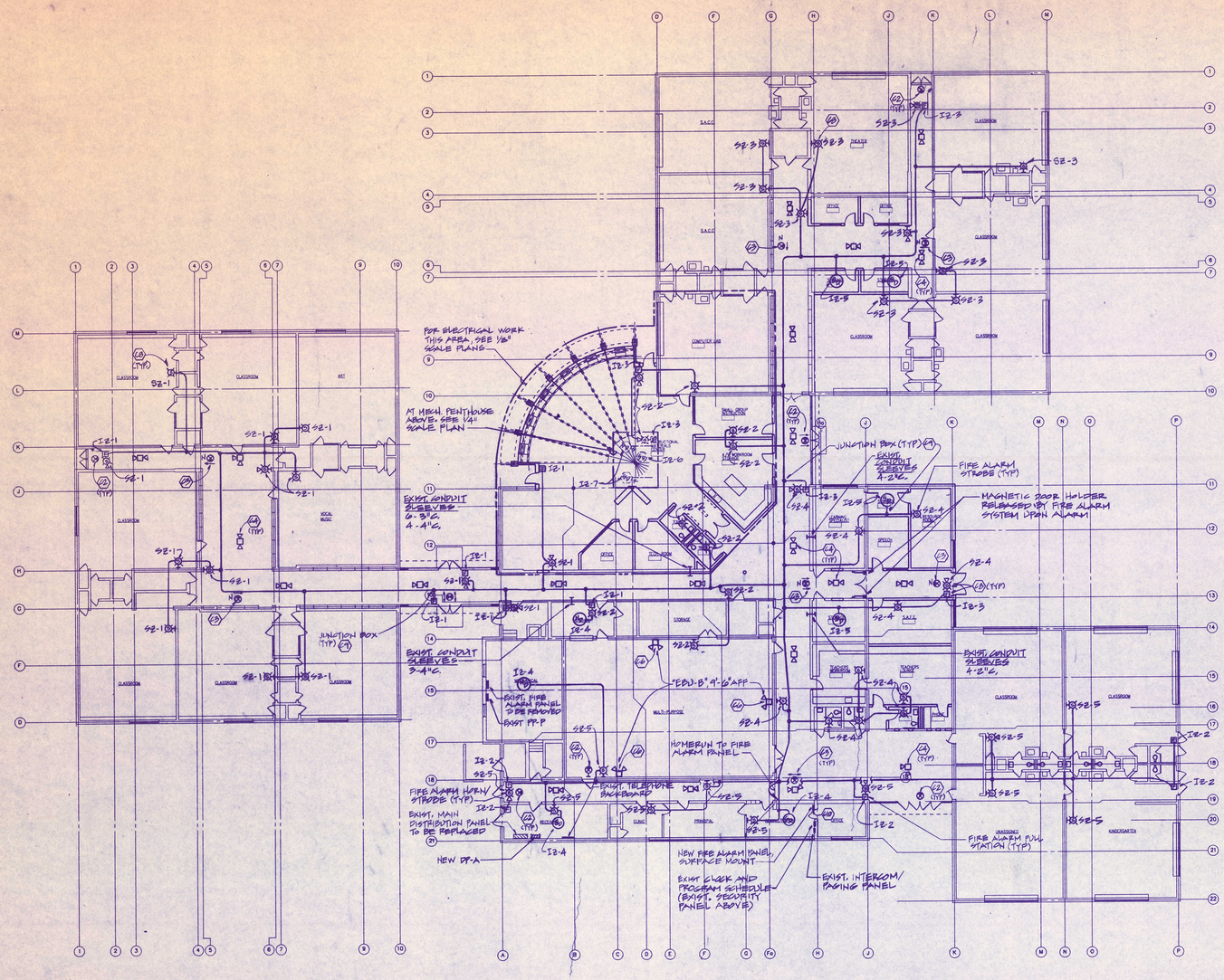

COMPOSITE PLAN – ELECTRICAL

SCALE: 1/16" = 1'-0"

FIRE ALARM SYSTEM WIRING

INITIATING ZONE (IZ) SERVING PULL STATION OR WATER FLOW.	2#18
INITIATING ZONE (IZ) SERVING SMOKE DETECTOR, HEAT DETECTOR, OR DUCT SMOKE DETECTOR.	2#18 ALARM 2#16 POWER
SUPERVISORY ZONE SERVING TAMPER SWITCH.	2#18
DOOR HOLD OPEN ELECTRO-MAGNETS	2#16
SIGNAL ZONE (SZ) SERVING HORN, STROBE, OR HORN/STROBE.	2#14

NOTES:

1. ALL WIRING SHALL BE INSTALLED IN CONDUIT OR WIREMOLD RACEWAY AS INDICATED OR SPECIFIED, MINIMUM SIZE CONDUIT 1/2". CONDUIT SERVING MAIN CORRIDORS SHALL BE 1" CONDUIT MINIMUM.
2. INSTALL AN END OF LINE DEVICE FOR LAST DEVICE ON INITIATING SIGNAL OR SUPERVISORY CIRCUIT.
3. EXACT SYSTEM WIRING SHALL BE IN ACCORDANCE WITH MANUFACTURER'S WIRING DIAGRAM. ELECTRICAL CONTRACTOR SHALL VERIFY WITH MANUFACTURER PRIOR TO INSTALLING ANY SYSTEM RACEWAY OR WIRING.
4. FOR TYPICAL HORN/STROBE AND PULLSTATION MOUNTING DETAILS, SEE TYP. WIREWAY FEED DETAIL, SHT. E4.1.

ELECTRICAL SYMBOL LIST

SYMBOL	DESCRIPTION
	2'x4' FLUORESCENT LIGHT FIXTURE
	FLUORESCENT LIGHT FIXTURE, TYPE AS INDICATED
	DOWNLIGHT, TYPE AS INDICATED
	NIGHT LIGHT FIXTURE
	EMERGENCY BATTERY UNIT
N	EXIT LIGHT FIXTURE (SHADED AREA INDICATES FACE OF FIXTURE), N = NEW
	CALL BUTTON
S	SINGLE POLE SWITCH
S_3	THREE WAY SWITCH
S_D	DIMMER SWITCH
S/R	DUCT SMOKE DETECTOR (S = SUPPLY, R = RETURN)
	DUPLEX RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE
	SPECIAL RECEPTACLE
	HARDWIRED EQUIPMENT CONNECTION
	WIREWAY WITH DEVICES INDICATED
	CLOCK
	SPEAKER
	COMBINATION CLOCK/SPEAKER
T	TELEVISION OUTLET
	SCHEDULE BELL
	LOW VOLTAGE / DATA OUTLET
	TELEPHONE OUTLET
	UNDERFLOOR DUCT POWER AND LOW VOLTAGE DUCTS WITH ACTIVATION FITTING INDICATED
	UNDERFLOOR DUCT 120 V. DUPLEX RECEPTACLE AND LOW VOLTAGE OUTLET
F	FIRE ALARM PULL STATION
	FIRE ALARM HORN (EXISTING)
	FIRE ALARM STROBE
	FIRE ALARM HORN / STROBE
	FIRE ALARM CEILING MOUNTED JUNCTION BOX
(S)	SMOKE DETECTOR
(H)	HEAT DETECTOR
	PANELBOARD
	JUNCTION BOX
MP	MANUAL MOTOR STARTER (P = PILOT LIGHT)
	DISCONNECT SWITCH
M	COMBINATION MAGNETIC MOTOR STARTER
	SINGLE PHASE MOTOR
	THREE PHASE MOTOR
T	TRANSFORMER
(X)	INDICATES NOTE DESIGNATION
AFF	ABOVE FINISHED FLOOR
GFI	GROUND FAULT INTERRUPTER
WP	WEATHERPROOFED
UH	UNIT HEATER
AHU	AIR HANDLING UNIT
ACCU	AIR COOLED CONDENSING UNIT
LP	LIGHTING PANEL
RP	RECEPTACLE PANEL
MDP	MAIN DISTRIBUTION PANEL
DP	DISTRIBUTION PANEL
PP	POWER PANEL

COMPOSITE NOTES

C1. IN GENERAL, EXISTING CORRIDORS UTILIZE LAY-IN CEILINGS. UNLESS OTHERWISE INDICATED, ALL NEW CONDUIT INSTALLED WITHIN EXISTING SCHOOL SHALL BE CONCEALED ABOVE CEILINGS OR WITHIN WALL CONSTRUCTION, USE SURFACE WIREMOLD RACEWAY FOR VERTICAL DROP FROM CEILING SPACE TO STROBES, PULL STATIONS, ETC.

C2. REPLACE EXISTING EXIT LIGHT FIXTURE WITH NEW FIXTURE TYPE "XA" SINGLE FACE OR "XB" DOUBLE FACE AS INDICATED.

C3. NEW EXIT LIGHT FIXTURE, TYPE "XA" SINGLE FACE OR "XB" DOUBLE FACE AS INDICATED. NEW EXIT LIGHTS TO BE SERVED WITH 2 #12 IN RACEWAY FROM NEAREST EXISTING EXIT LIGHT OR EXIT LIGHTING BRANCH CIRCUIT.

C4. NEW EMERGENCY LIGHTING BATTERY UNIT, TYPE "EBU-A" UNLESS OTHERWISE INDICATED. MOUNT IN EXISTING LAYIN CEILING. INCLUDE IN THE ELECTRICAL BID, THE CUTTING OF EXISTING CEILING TILE AND INSTALLATION OF NEW GRID "T" AS REQUIRED TO FRAME UNIT.

C5. ALL EMERGENCY LIGHTING BATTERY UNITS TO BE SERVED FROM CONNECTION ON LINE SIDE OF LIGHT SWITCH SERVING NORMAL LIGHTING IN AREA, OR FROM THE EXISTING NIGHT LIGHT CIRCUIT WHERE APPLICABLE.

C6. PROVIDE METAL GAUGE GUARD ON NEW EMERGENCY BATTERY UNITS AT MULTI-PURPOSE AND GYMNASIUM.

C7. NEW FIRE ALARM SYSTEM SHALL BE INSTALLED, TESTED AND ADJUSTED PRIOR TO THE DEMOLITION OF EXISTING FIRE ALARM SYSTEM.

C8. ALL FIRE ALARM STROBES OR HORN/STROBES, SHALL BE WALL MOUNTED AT 6'-8" AFF. ALL FIRE ALARM PULL STATIONS SHALL BE MOUNTED AT 48" AFF.

C9. THE INSIDE OF BOX AND COVER OF ALL JUNCTION BOXES (WITHOUT DEVICES) SERVING FIRE ALARM SYSTEM SHALL BE PAINTED RED.

C10. SEE TYPICAL FIRE ALARM PANEL FEED DETAIL FOR ROUTING OF WIRING TO NEW SURFACE MOUNTED FIRE ALARM PANEL.

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project title
Marshall Elementary Renovation

Livonia Public Schools

sheet title
Composite Plan - Electrical

date	issued for
8-24-92	BIDS
8-17-92	95% OWNER REV.
00-00-89	ISSUE NAME

drawn B.J.G.
checked J.B.
approved J.B.

job. no. **92014**

sheet no. **E2.1**

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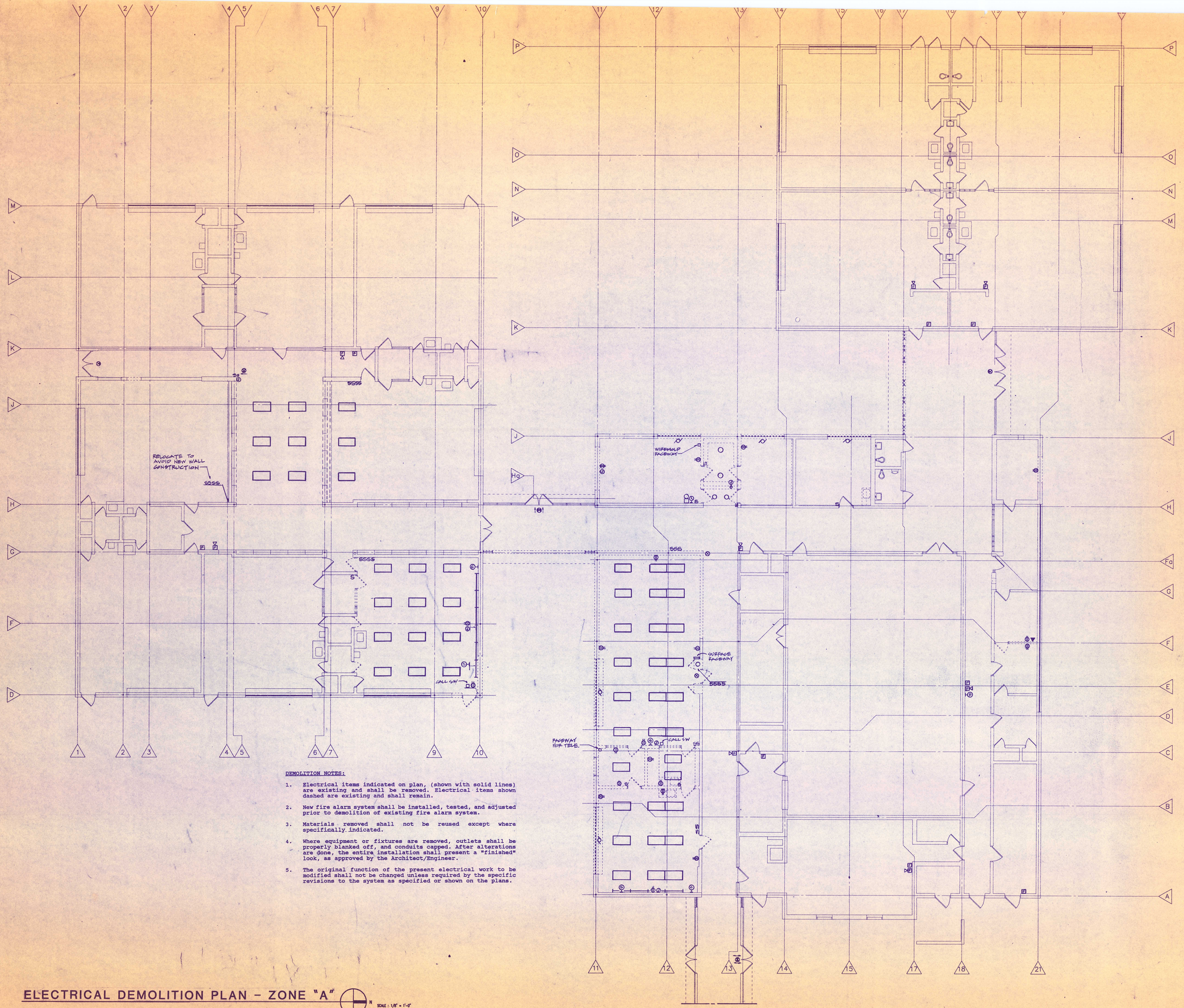

DEMOLITION NOTES:

1. Electrical items indicated on plan, (shown with solid lines) are existing and shall be removed. Electrical items shown dashed are existing and shall remain.
2. New fire alarm system shall be installed, tested, and adjusted prior to demolition of existing fire alarm system.
3. Materials removed shall not be reused except where specifically indicated.
4. Where equipment or fixtures are removed, outlets shall be properly blanked off, and conduits capped. After alterations are done, the entire installation shall present a "finished" look, as approved by the Architect/Engineer.
5. The original function of the present electrical work to be modified shall not be changed unless required by the specific revisions to the system as specified or shown on the plans.

ELECTRICAL DEMOLITION PLAN - ZONE "A"

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

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project title
Marshall Elementary Renovation

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Electrical Demolition Plan - Zone "A"

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8-24-92	BIDS
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drawn BJG
checked JB
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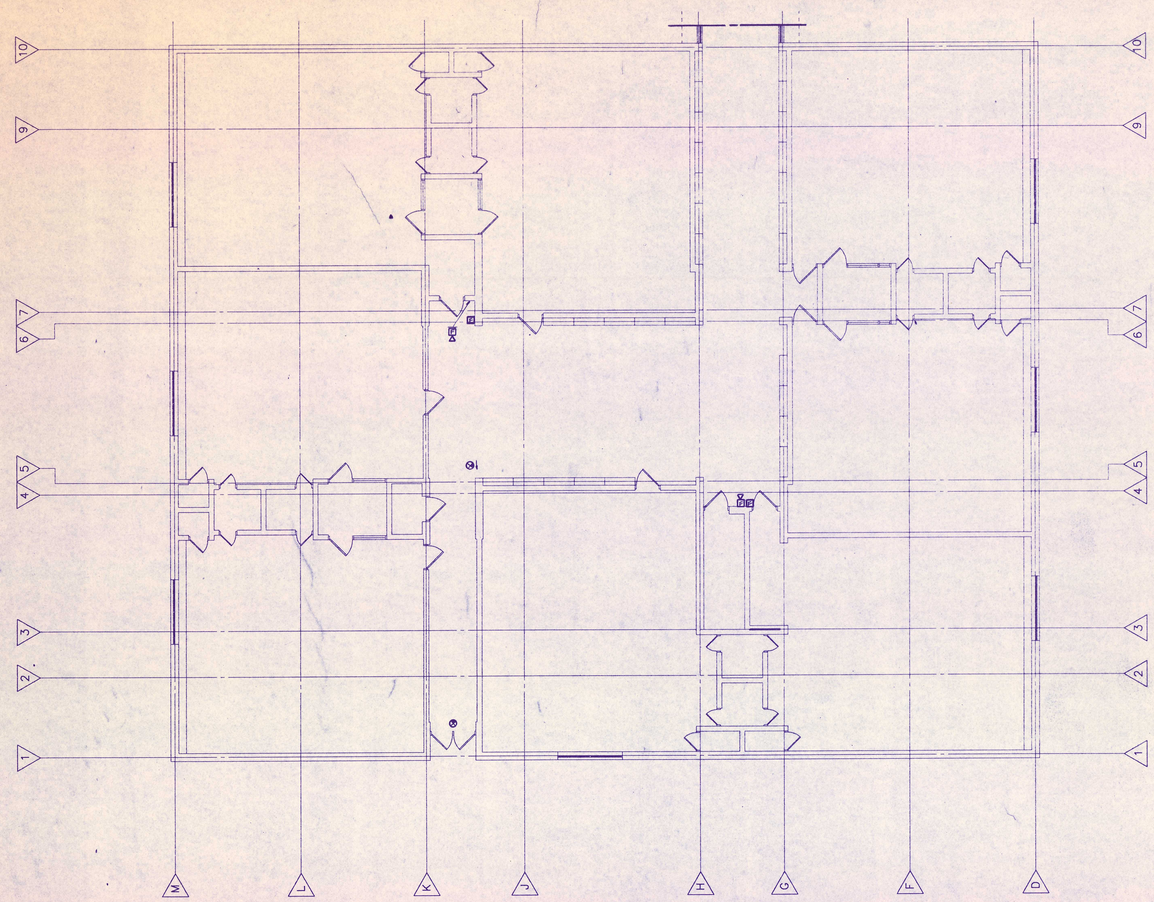

ELECTRICAL DEMOLITION PLAN – ZONE "B"

N

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

NOTE:
SEE SHEET E2.2 FOR NOTES THIS SHEET.

TMP

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project title
Marshall Elementary Renovation

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Electrical Demolition Plan – Zone "B"

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E2.3

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