

# ROSSVILLE HIGH SCHOOL SHOP & CLASSROOM ADDITION

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- A-2 FLOOR PLAN, ELEVATIONS
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- A-4 DOOR & FINISH SCHEDULES,  
HOLLOW METAL DETAILS,  
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### ELECTRICAL

- E-1 FLOOR PLAN, DETAILS

## MATERIAL SYMBOLS

|                  |  |
|------------------|--|
| EARTH            |  |
| SAND OR GRAVEL   |  |
| CONCRETE         |  |
| CONCRETE BLOCK   |  |
| STEEL            |  |
| ROUGH LUMBER     |  |
| BATT INSULATION  |  |
| RIGID INSULATION |  |

DETAIL NO. 3  
SHEET NO. 2

DIMENSION TO FACE  
OF MATERIAL

THOS. W. WILLIAMSON AND ASSOCIATES  
ARCHITECTS  
KANSAS CITY, MISSOURI  
ROSSVILLE HIGH SCHOOL SHOP & CLASSROOM ADDITION  
KAW VALLEY U.S.D. 321

|                |   |
|----------------|---|
| MARCH 28, 1964 |   |
| DRAWN BY RMB   |   |
| REVISIONS      |   |
| A              | 1 |
| 004            |   |

CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS AT BUILDING SITE

2'x2' GRATE  
1'x1' FRAME  
SEE MECH. FOR DRAINAGE

1  
2 TRENCH DRAIN DET.  
1/2" = 1'-0"

6" O.D. STL PIPE FILLED W/ CONC.  
ASPHALT ON GRAVEL BASE  
DOOR FINISH  
FACE OF BLDG.  
PLAN  
SECTION

2  
2 BOLLARD DET.  
1" = 1'-0"

10" x 1 1/2" JFLC W/ 2-4x4x1/4 LBS  
STL COLUMN  
FACE OF RIGID FRAME MEMBER  
FACE OF END WALL COLUMN  
PIN FLOOR  
TO BE DETERMINED BY ARCHITECT  
NOTE: CONTRACTOR MAY SUBMIT OPTIONAL DETAIL

3  
2 BUMPER GIRT DET.  
1" = 1'-0"

MISC. DETAILS  
SCALE AS NOTED

FLOOR PLAN  
SCALE 1/8" = 1'-0"

EAST ELEVATION  
SCALE 1/8" = 1'-0"

SOUTH ELEVATION  
SCALE 1/8" = 1'-0"

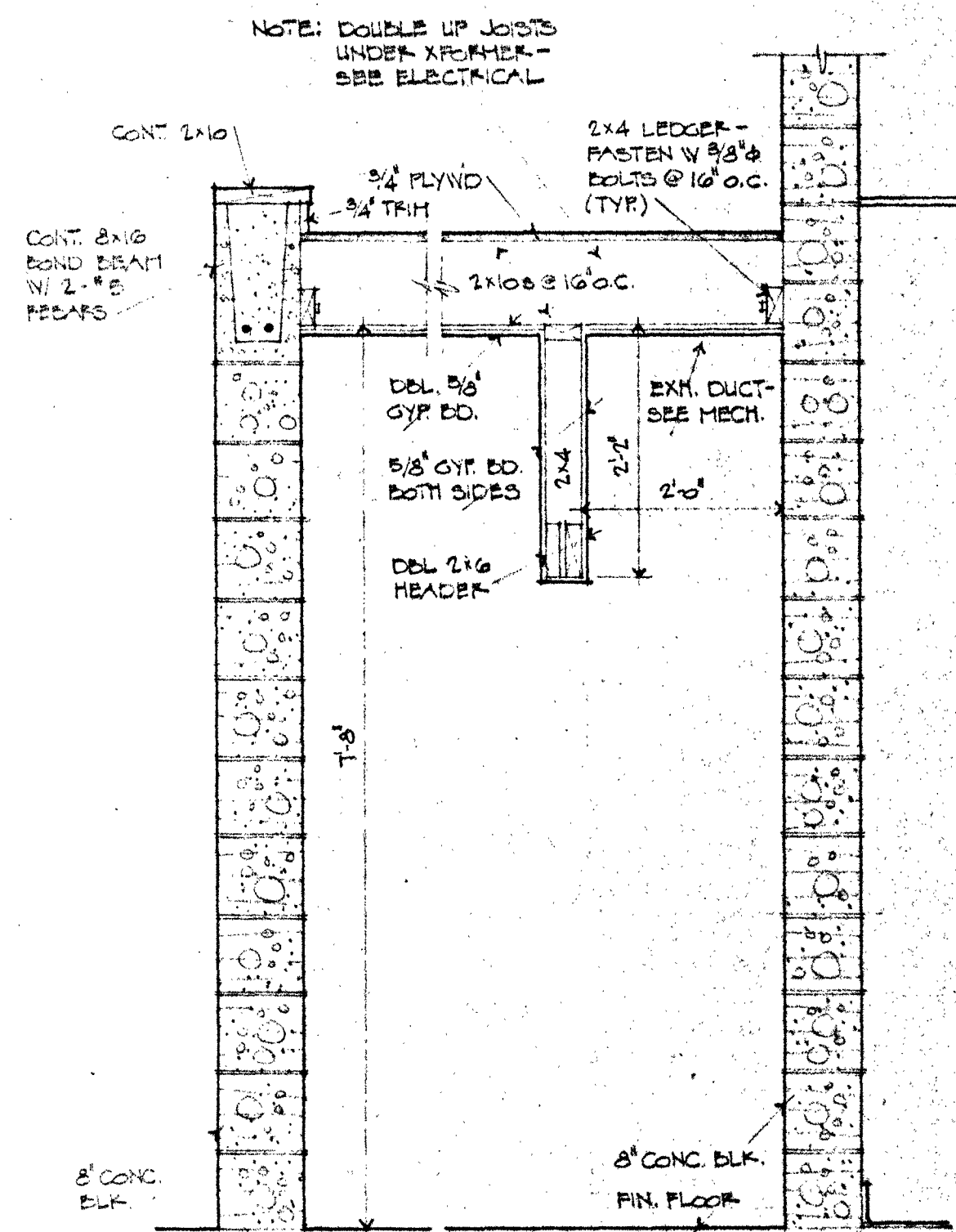
NORTH ELEVATION  
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WEST ELEVATION  
SCALE 1/8" = 1'-0"

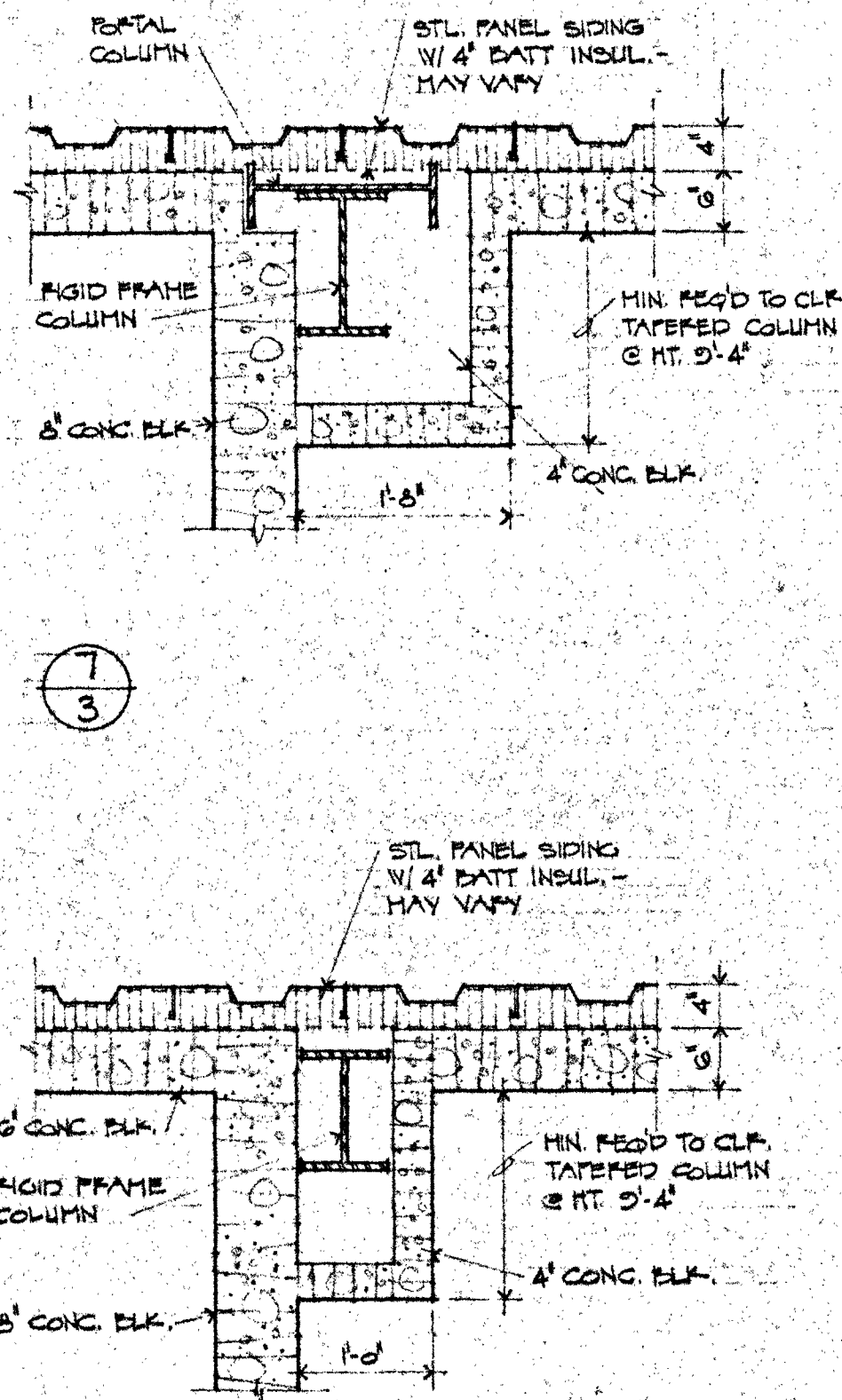
CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS AT BUILDING SITE

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KAW VALLEY USD NO 321

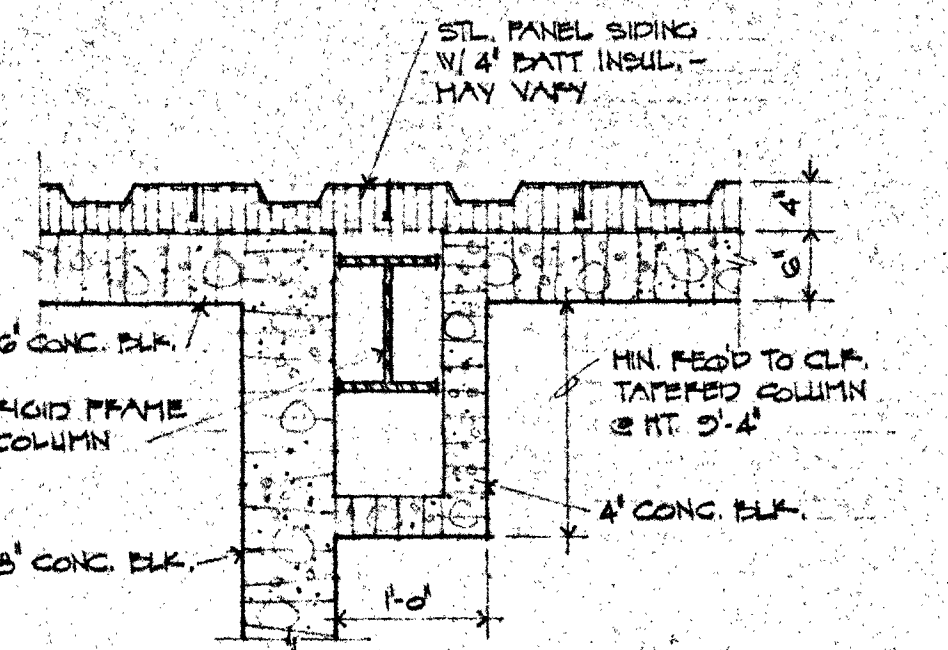
MARCH 29, 1974  
DRAWN BY PHD  
REVISIONS  
A  
2  
04



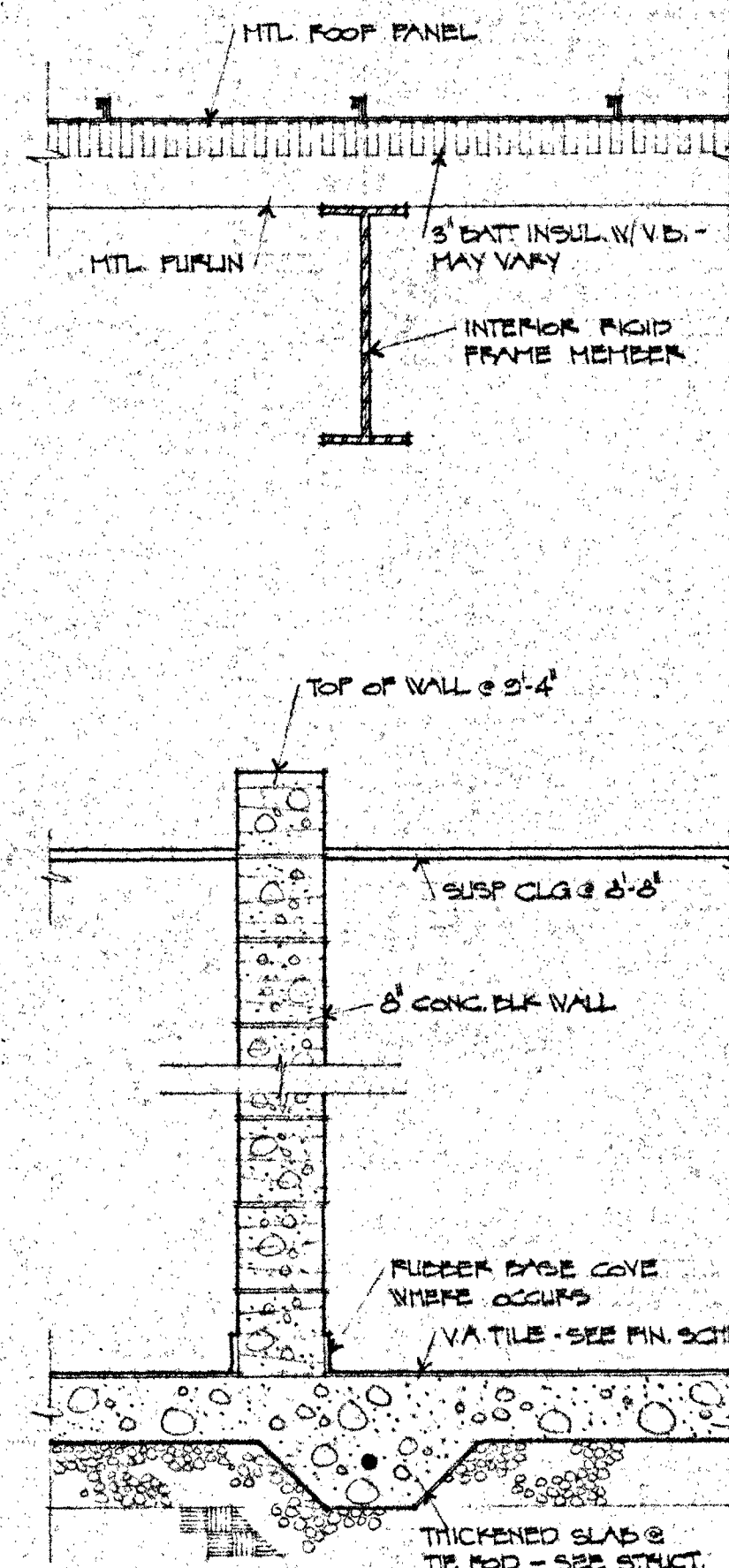
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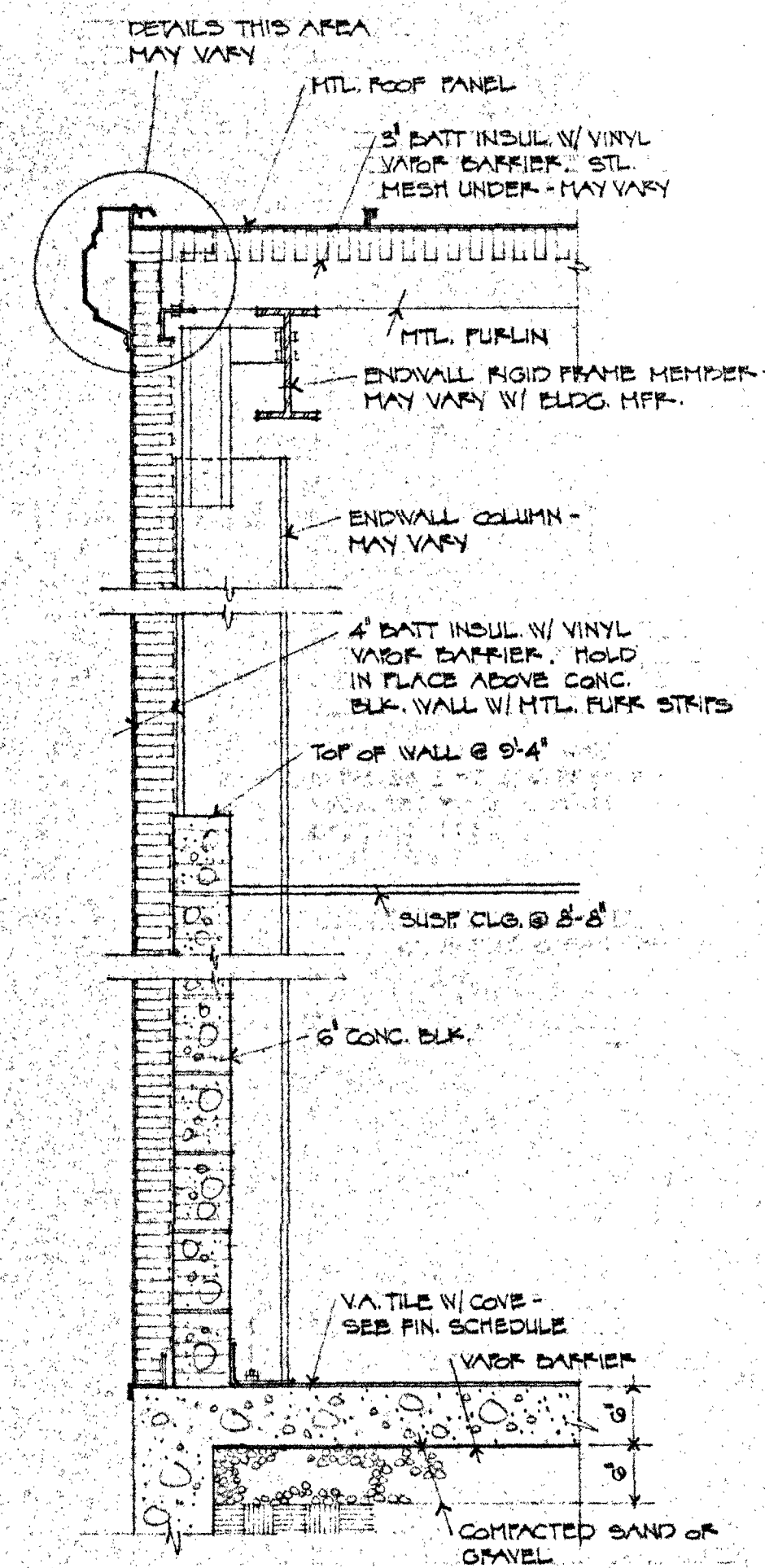
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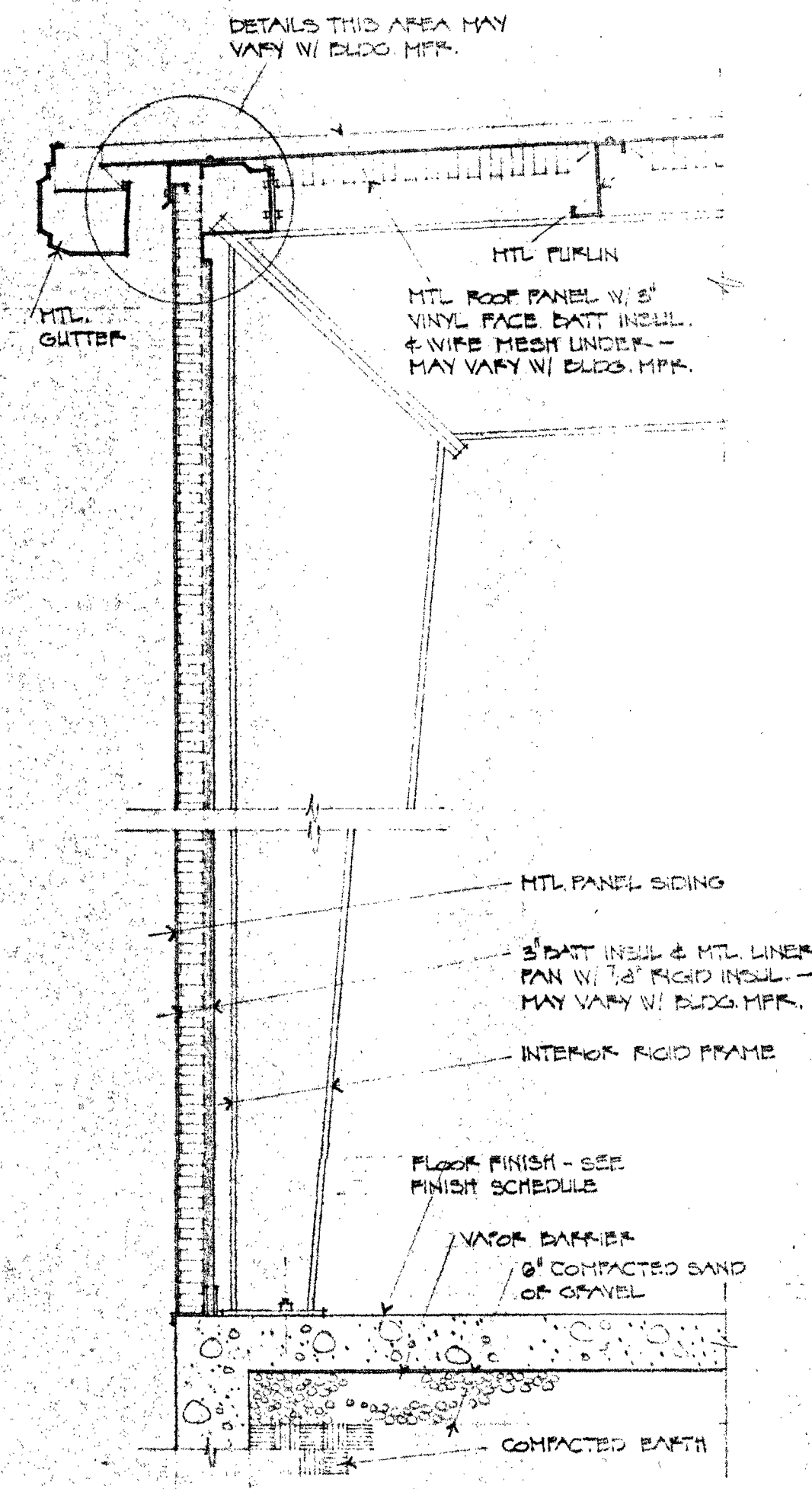
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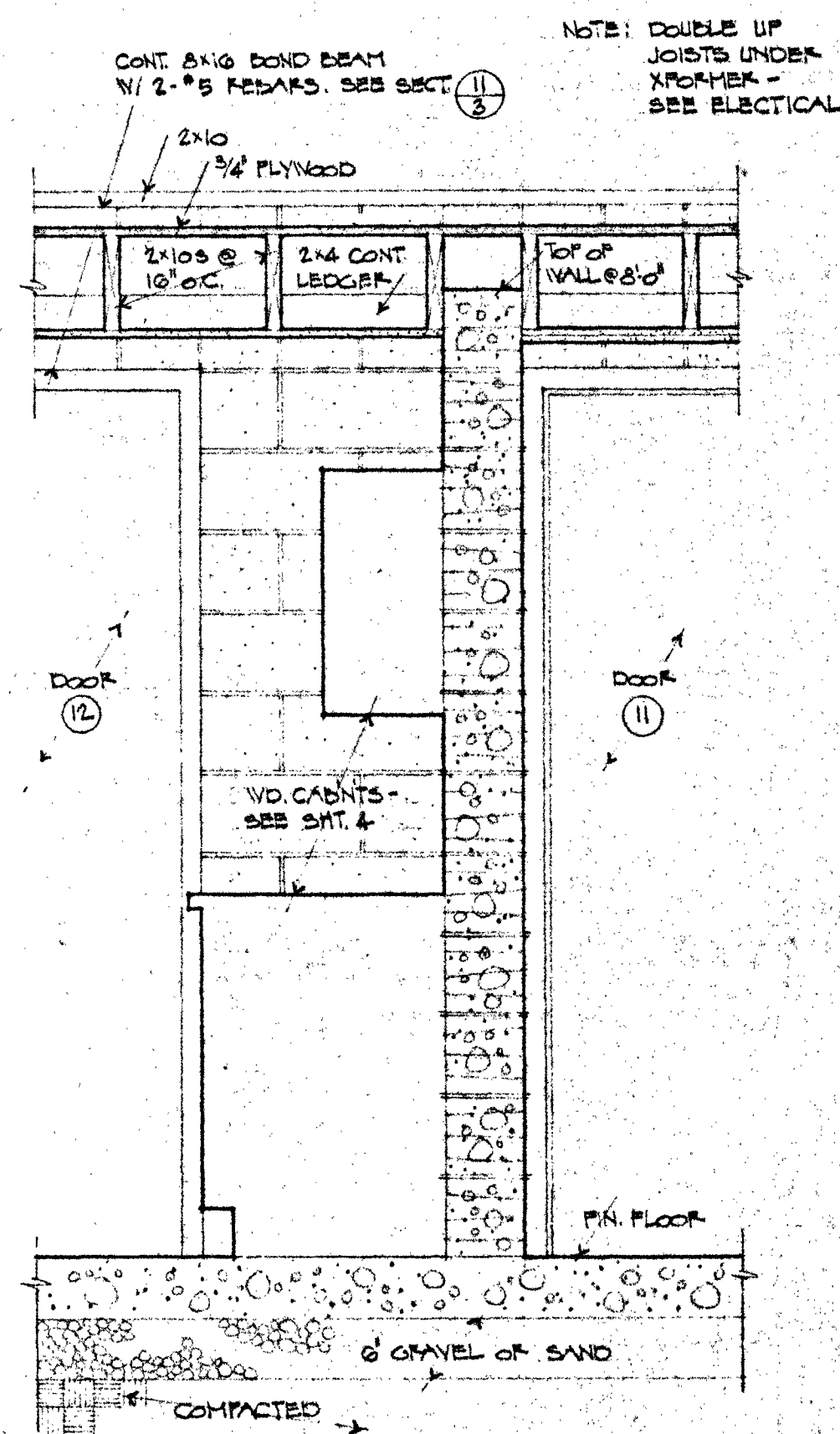
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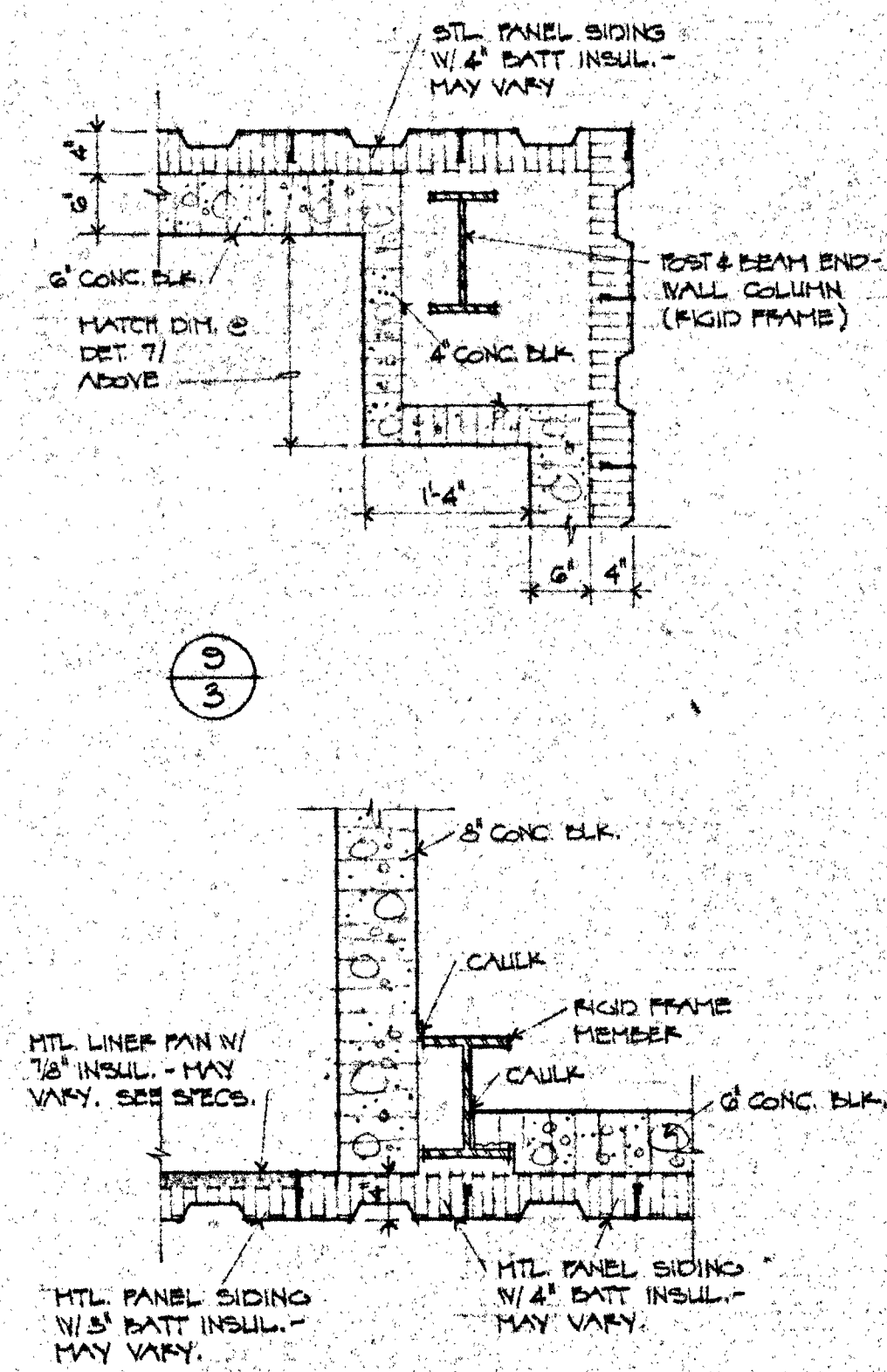
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3



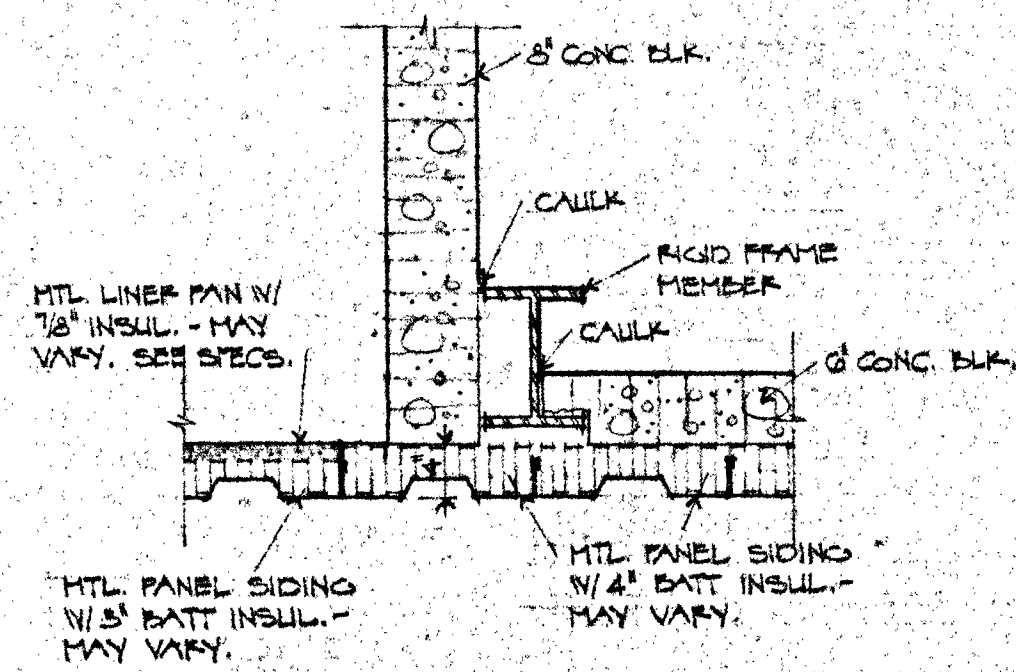
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3



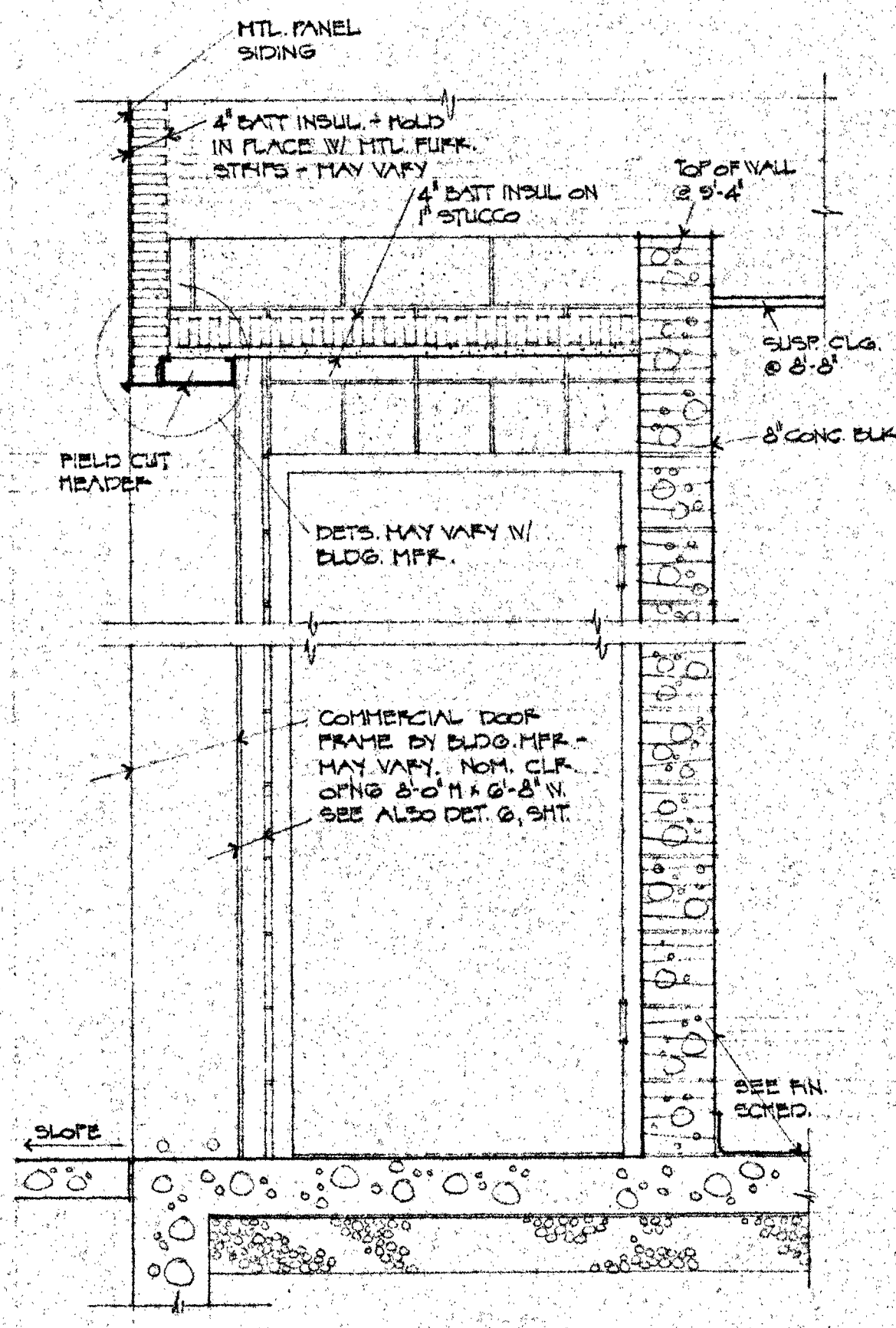
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3



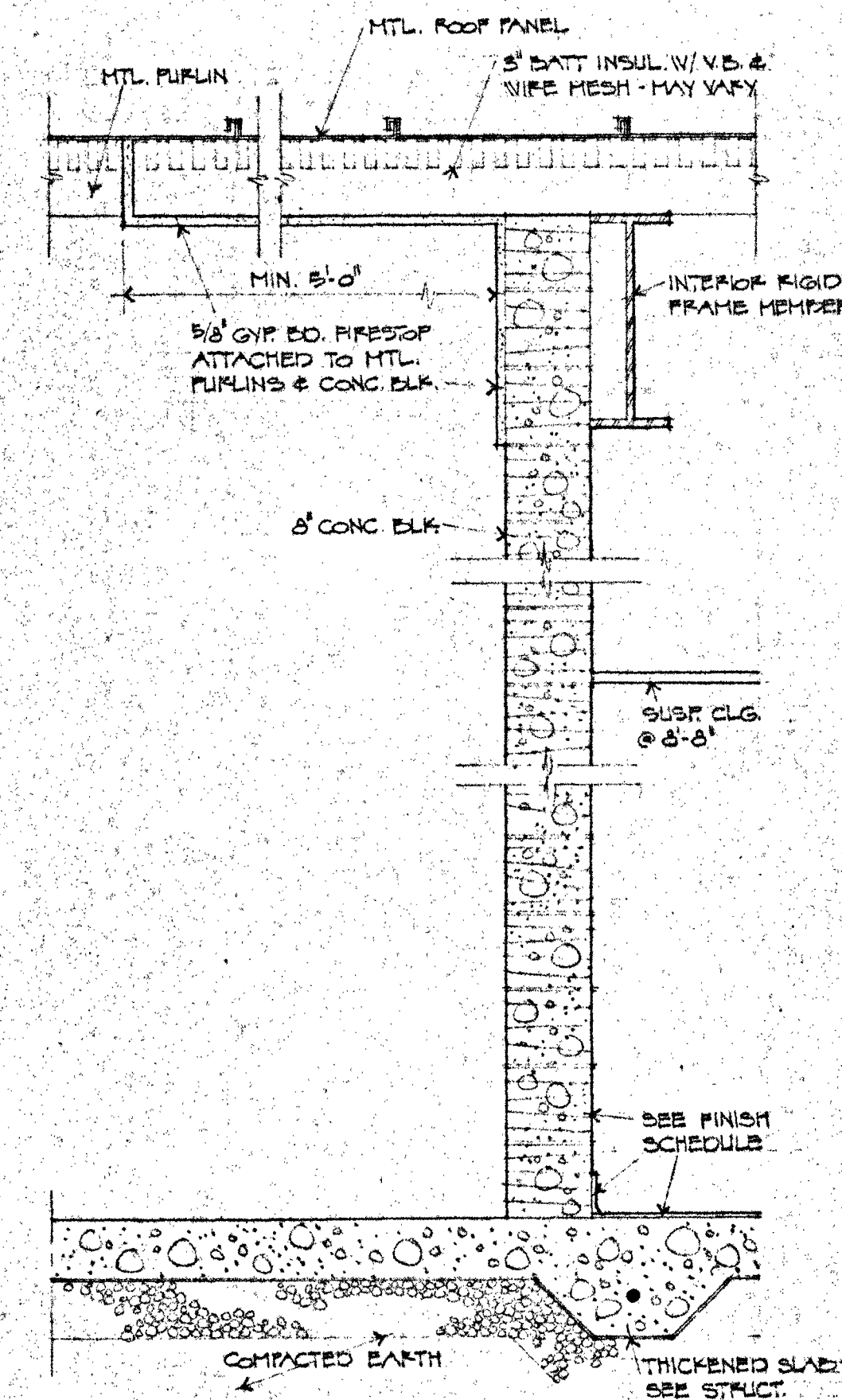
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3



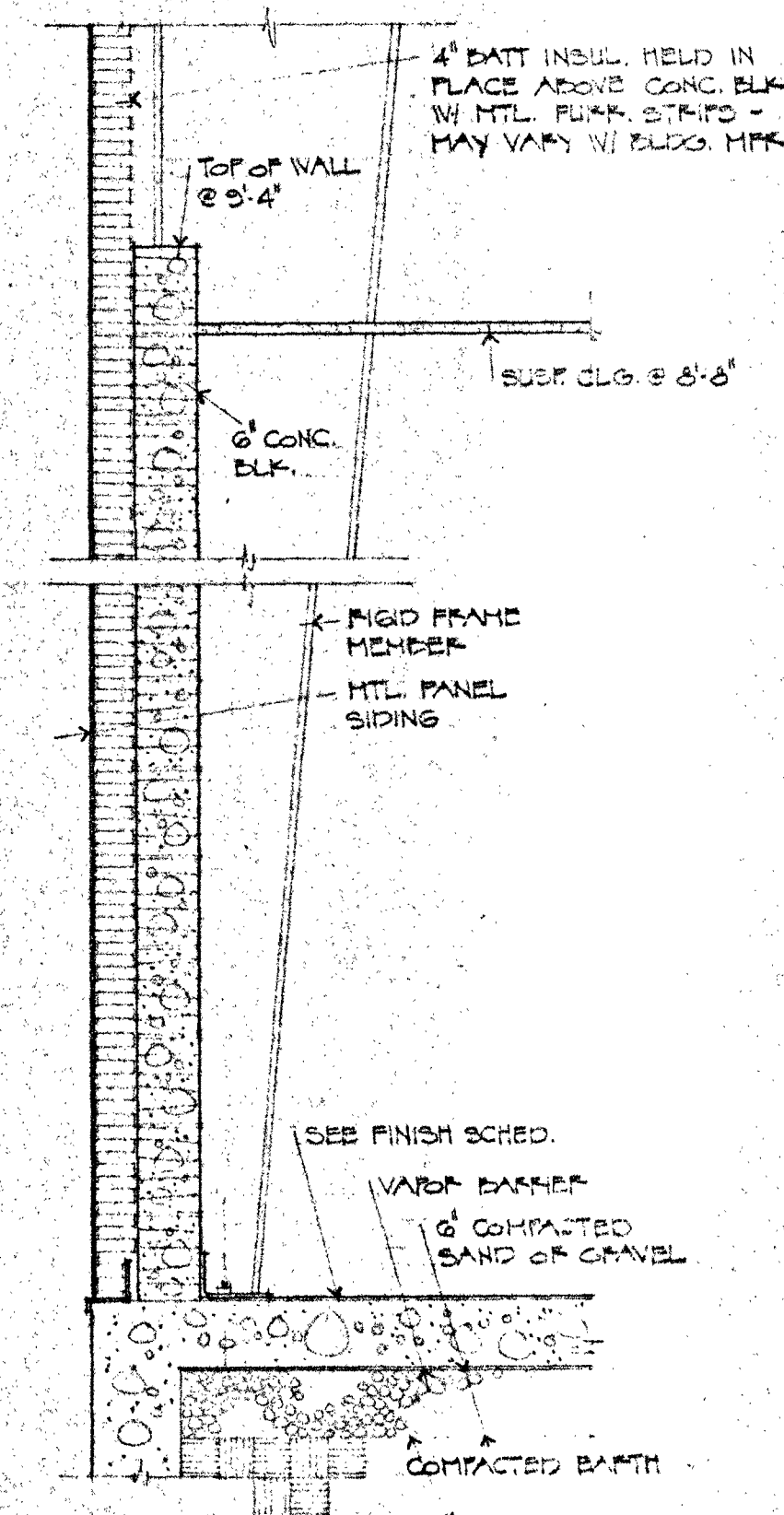
10  
3



6  
3



4  
3



2  
3

WALL SECTIONS  
SCALE 3/4" = 1'-0"

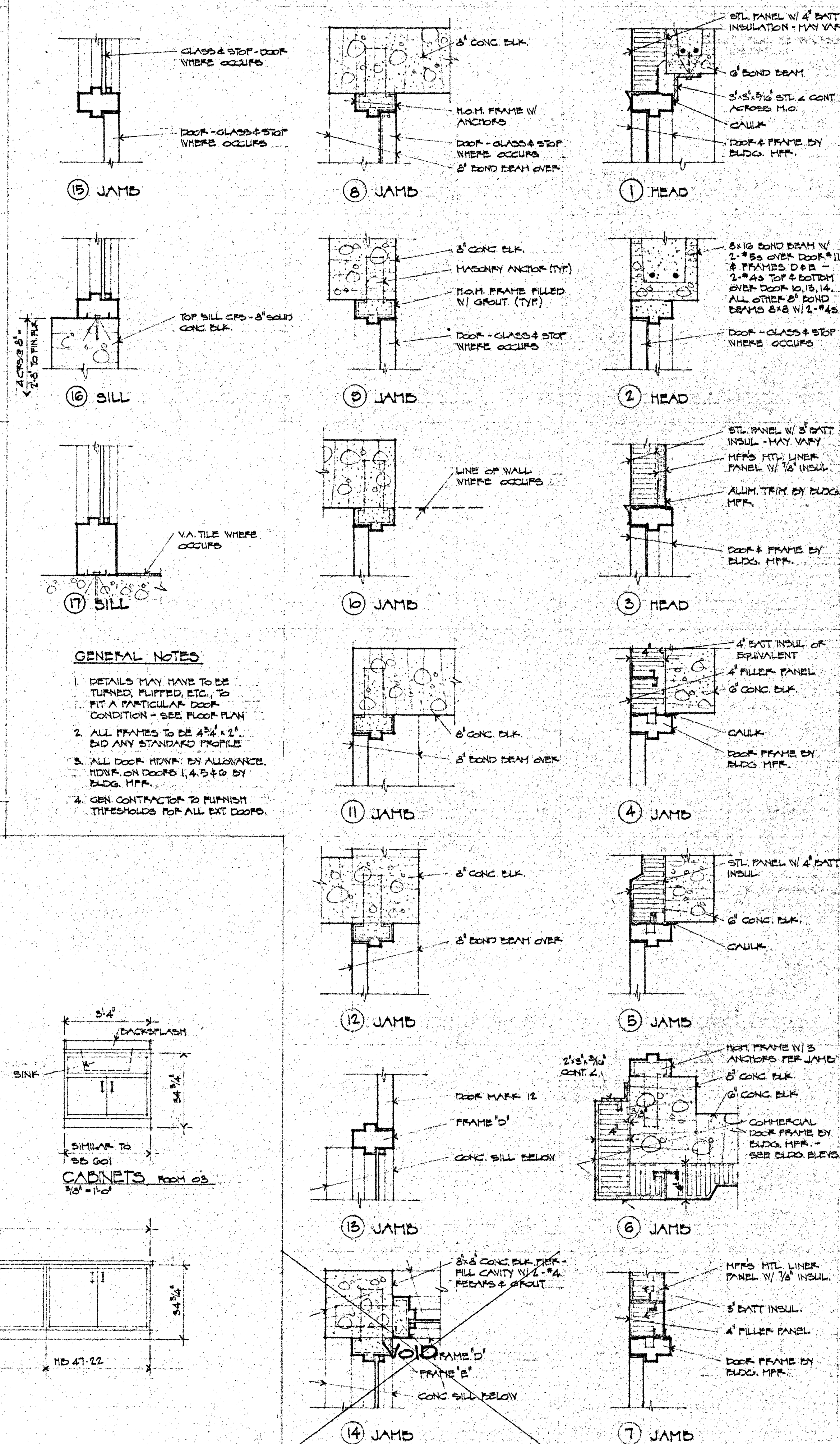
WALL DETAILS  
SCALE 3/4" = 1'-0"

WALL SECTIONS  
SCALE 3/4" = 1'-0"

CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS AT BUILDING SITE

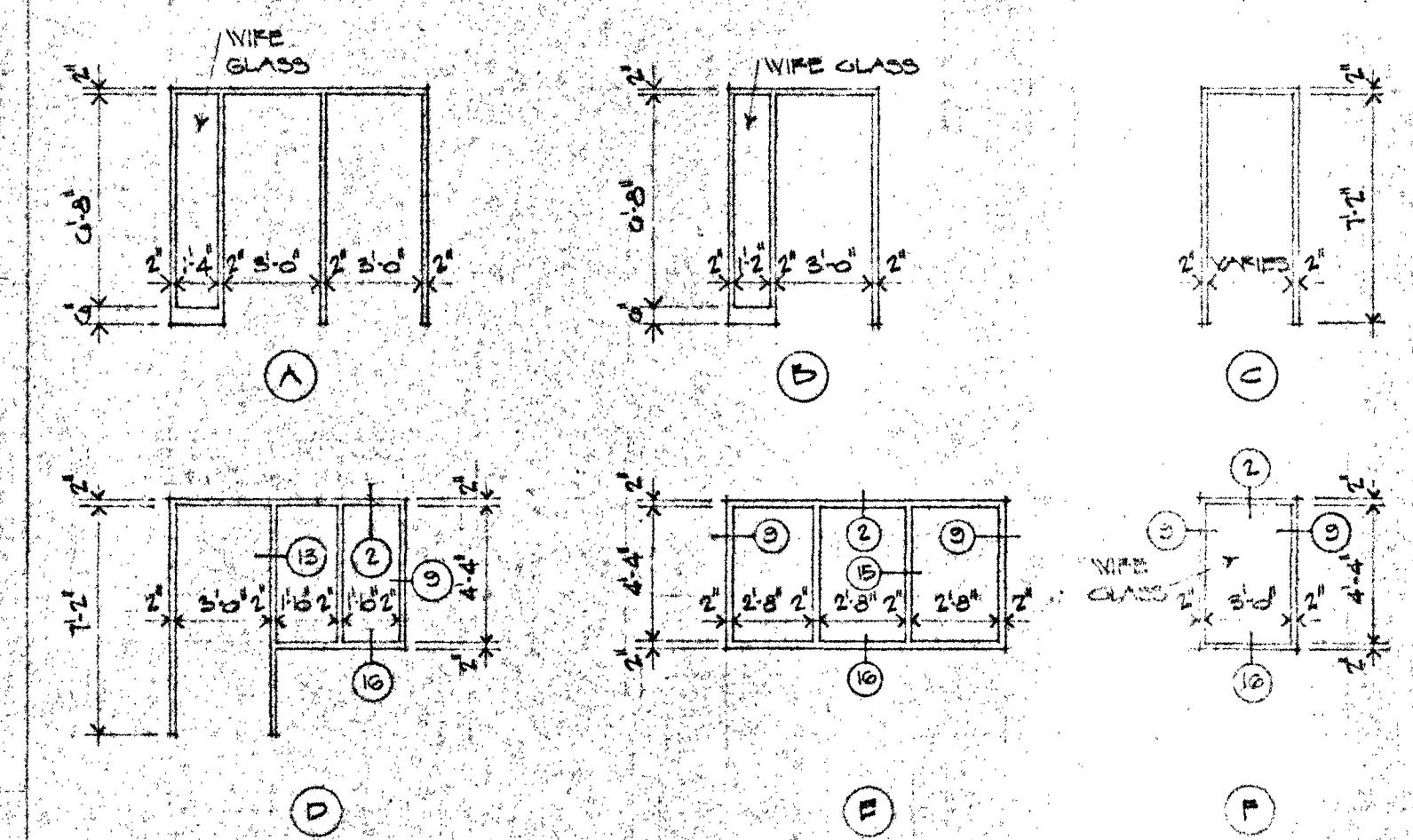
| ROOM FINISH SCHEDULE |                 |                                  |                          |                                         |                     |                                                                                     |                                             |  |  |  |  |
|----------------------|-----------------|----------------------------------|--------------------------|-----------------------------------------|---------------------|-------------------------------------------------------------------------------------|---------------------------------------------|--|--|--|--|
| ROOM NUMBER          | ROOM NAME       | FLOOR                            | BASE                     | WALLS                                   | CEILING             | CLG. HT.                                                                            | REMARKS                                     |  |  |  |  |
|                      |                 | VA. TILE<br>CONCRETE<br>HARDENED | VINYL<br>METAL *<br>NONE | CONC. BLK.<br>MT. LINER *<br>INSULATION | PAINT<br>SPEC. COAT | ACQUA TILE<br>2" x 8" GFT. DO<br>2" x 8" GFT. DO<br>PAINT<br>NONE<br>T-6<br>6" x 6" |                                             |  |  |  |  |
| 01                   | CORRIDOR        |                                  |                          |                                         |                     |                                                                                     | EXP. 5" BATT INSUL. ON TWO WALLS - SEE PLAN |  |  |  |  |
| 02                   | MESH RM.        |                                  |                          |                                         |                     |                                                                                     |                                             |  |  |  |  |
| 03                   | CLASSROOM       |                                  |                          |                                         |                     |                                                                                     |                                             |  |  |  |  |
| 04                   | JANITOR'S CLOS. |                                  |                          |                                         |                     |                                                                                     |                                             |  |  |  |  |
| 05                   | TOILET          |                                  |                          |                                         |                     |                                                                                     |                                             |  |  |  |  |
| 06                   | FINISHING RM.   |                                  |                          |                                         |                     |                                                                                     |                                             |  |  |  |  |
| 07                   | OFFICE          |                                  |                          |                                         |                     |                                                                                     |                                             |  |  |  |  |
| 08                   | SHOP            |                                  |                          |                                         |                     |                                                                                     |                                             |  |  |  |  |

\* REFERS TO ARMO SYSTEM - MAY VARY WITH BLDG. MANUFACTURER AS APPROVED BY ARCHITECT. SEE SPECS.

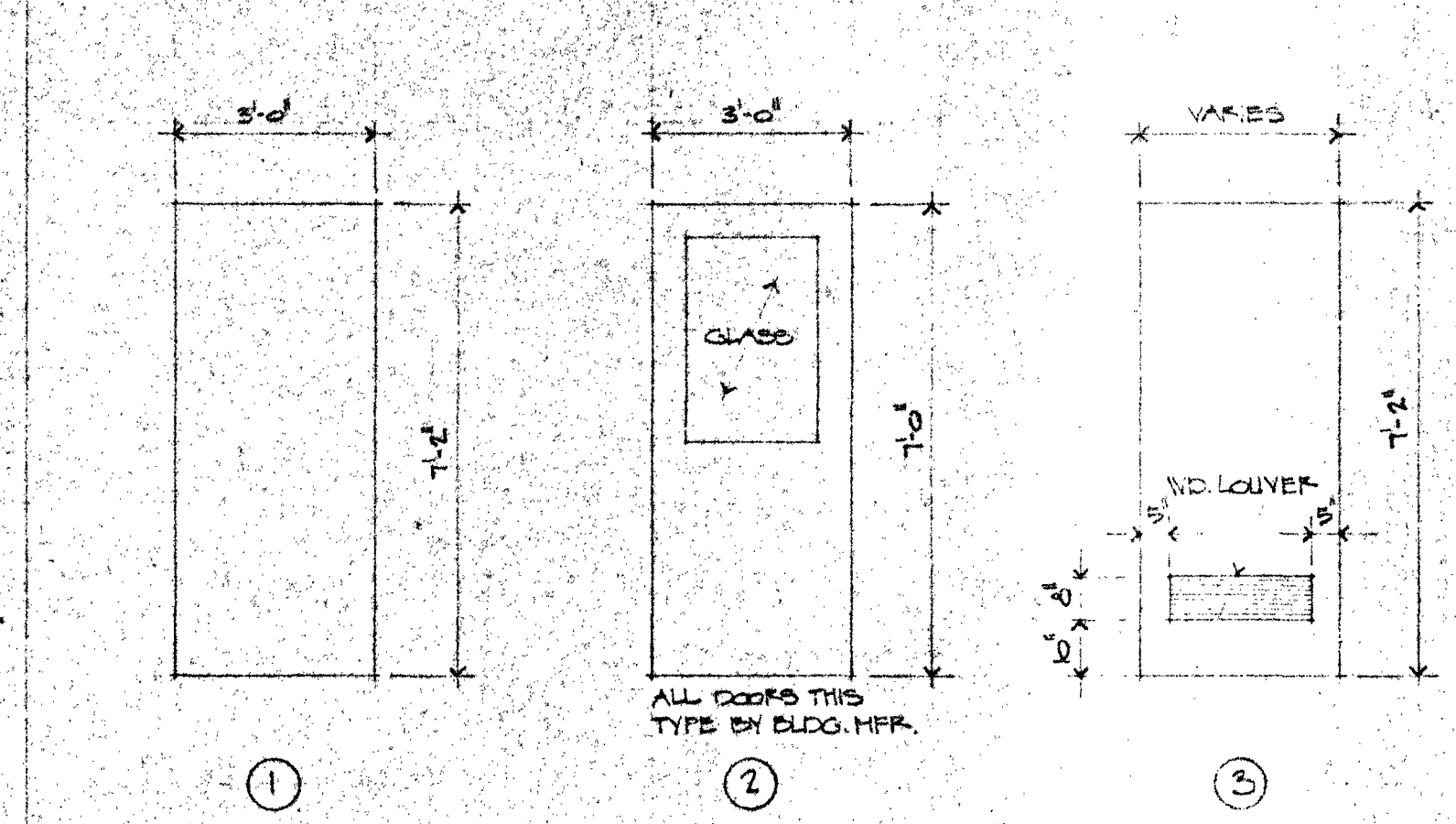


| DOOR SCHEDULE |                       |           |        |          |           |            |         |                     |           |  |  |
|---------------|-----------------------|-----------|--------|----------|-----------|------------|---------|---------------------|-----------|--|--|
| MARK          | LOCATION ROOM TO ROOM | DOOR SIZE |        | MATERIAL | THICKNESS | FRAME TYPE | DETAILS |                     | REMARKS   |  |  |
|               |                       | WIDTH     | HEIGHT |          |           |            |         |                     |           |  |  |
| 1             | EXT. 01               | 3'-0"     | 7'-0"  | MTL      | 1 1/2"    | 2          | 1, 4, 5 |                     | PA. **    |  |  |
| 2             | EXT. 07               | 3'-0"     | 7'-0"  | "        | 1 1/2"    | 1          | 1       |                     |           |  |  |
| 3             | EXT. 09               | 3'-0"     | 7'-0"  | "        | 1 1/2"    | 1          | 1       |                     |           |  |  |
| 4             | EXT. 10               | 3'-0"     | 7'-0"  | "        | 1 1/2"    | 2          | 2       |                     |           |  |  |
| 5             | EXT. 10               | 3'-0"     | 7'-0"  | "        | 1 1/2"    | 2          | 2       |                     |           |  |  |
| 6             | EXT. 05               | 3'-0"     | 7'-0"  | "        | 1 1/2"    | 2          | 2       |                     |           |  |  |
| 7             | 01 02                 | 3'-0"     | 7'-0"  | WD       | 1 1/2"    | 1          | 1       | 2, 8, 9             | "B" LABEL |  |  |
| 8             | 01 05                 | 3'-0"     | 7'-0"  | "        | 1 1/2"    | 1          | 1       | 2, 8, 9, 10, 11, 12 | "B" LABEL |  |  |
| 9             | 01 04                 | 3'-0"     | 7'-0"  | "        | 1 1/2"    | 1          | 1       |                     |           |  |  |
| 10            | 10 04                 | 3'-0"     | 7'-0"  | "        | 1 1/2"    | 1          | 1       | 2, 11, 12           | "B" LABEL |  |  |
| 11            | 10 08                 | 3'-0"     | 7'-0"  | "        | 1 1/2"    | 1          | 1       | 2, 9                | "A" LABEL |  |  |
| 12            | 10 09                 | 3'-0"     | 7'-0"  | "        | 1 1/2"    | 1          | 1       | 2, 9, 13            | "B" LABEL |  |  |
| 13            | 01 10                 | 3'-0"     | 7'-0"  | "        | 1 1/2"    | 1          | 1       | 2, 8, 12, 13, 17    | "B" LABEL |  |  |
| 14            | 01 10                 | 3'-0"     | 7'-0"  | "        | 1 1/2"    | 1          | 1       |                     | "B" LABEL |  |  |
| 15            | 01 09                 | 3'-0"     | 7'-0"  | "        | 1 1/2"    | 1          | 1       | 2, 8, 9             |           |  |  |
| 16            | 01 07                 | 3'-0"     | 7'-0"  | "        | 1 1/2"    | 1          | 1       |                     |           |  |  |
| 17            | 05 09                 | 3'-0"     | 7'-0"  | "        | 1 1/2"    | 3          | 3       | 2, 9                |           |  |  |

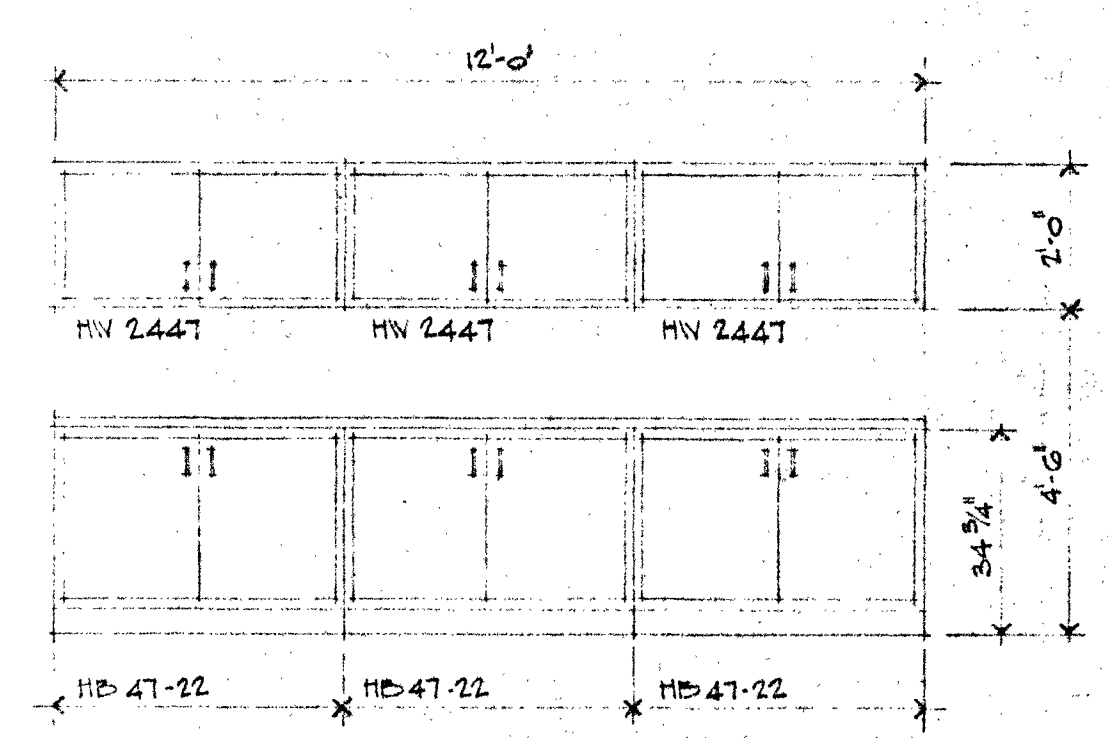
\* DOOR FRAME BY BLDG. MANUFACTURER  
\*\* ARMO G-10, BOTH LEAVES ACTIVE, REMOVABLE HULLER, PANE MOVE.



FRAME TYPES NO SCALE

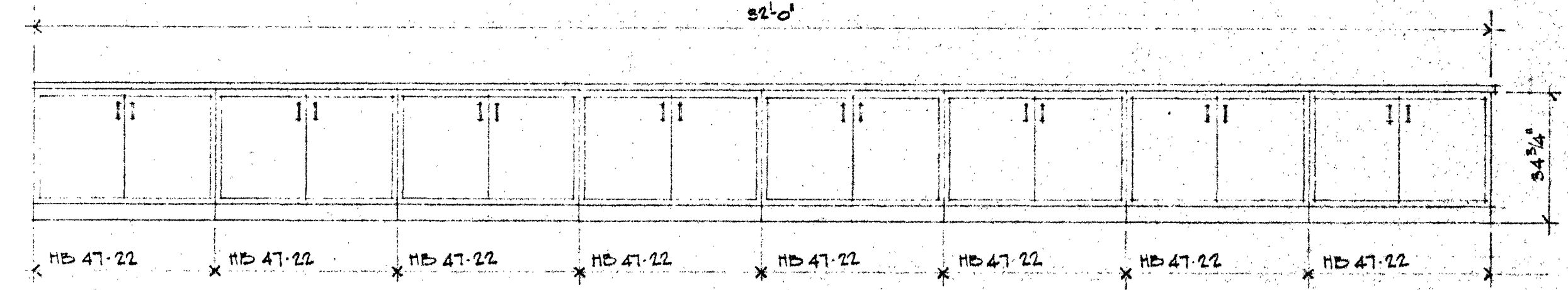
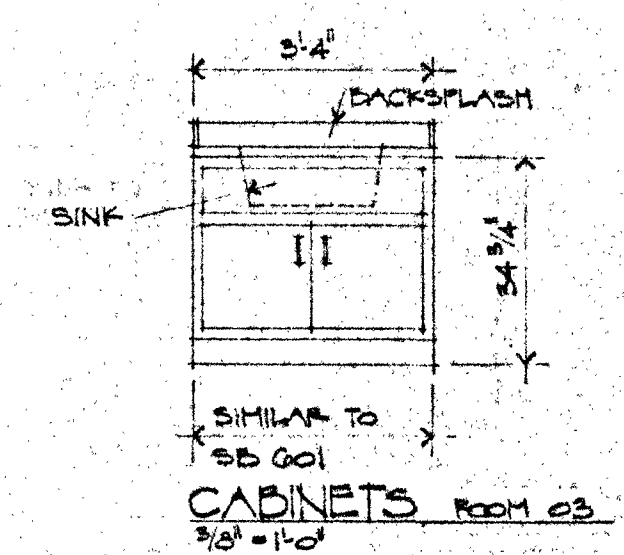


DOOR TYPES NO SCALE



**GENERAL NOTES**

- ALL CABINET NUMBERS ARE FROM 'WHELAN'S' STANDARD LITERATURE
- ALL COUNTER TOPS AND BACKSPLASHES TO BE COVERED W/ PLASTIC LAMINATE.

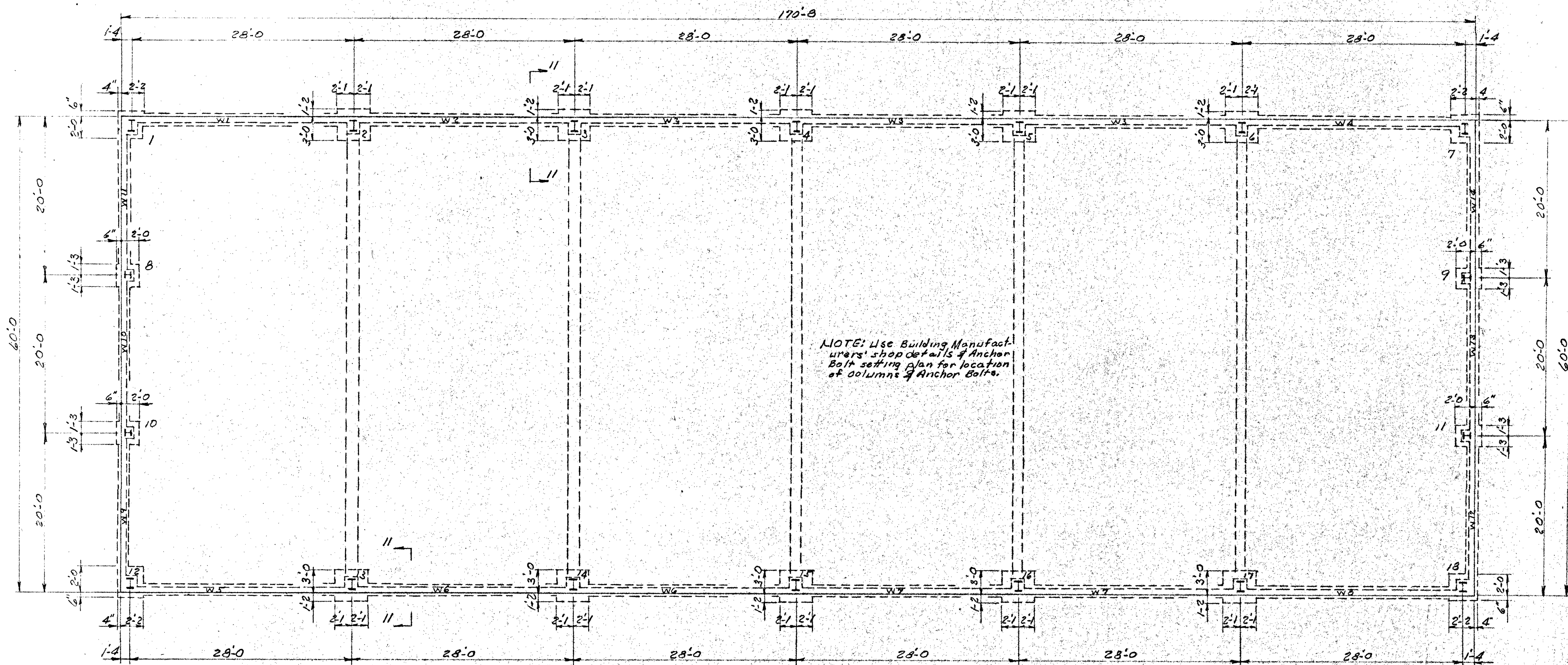


CABINET WORK

SCALE AS NOTED

HOLLOW METAL DETAILS

CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS AT BUILDING SITE

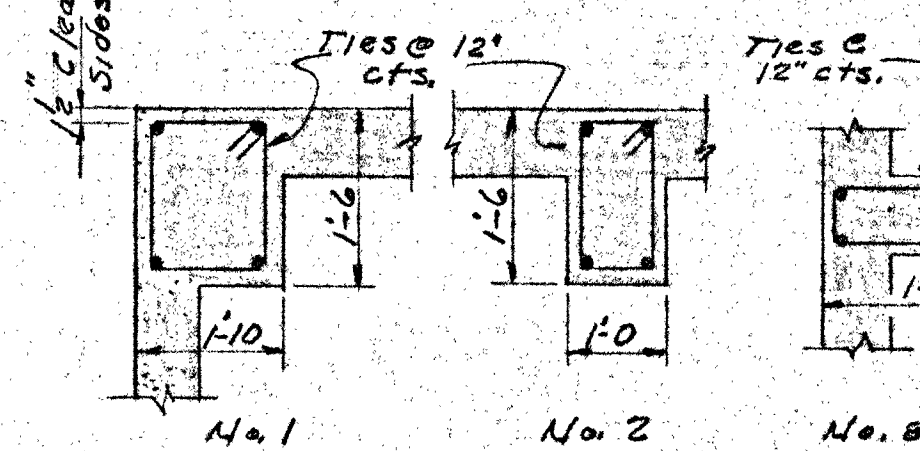


PLAN - FIRST FLOOR FOUNDATION WALLS & FOOTINGS  
Scale: 1/4"=1'-0"  
NOTE: Slabs on grade, unless shown or noted otherwise, shall be 6" thick and reinforced with welded wire fabric; 6" x 6" mesh, No 6 & No 6 wires.

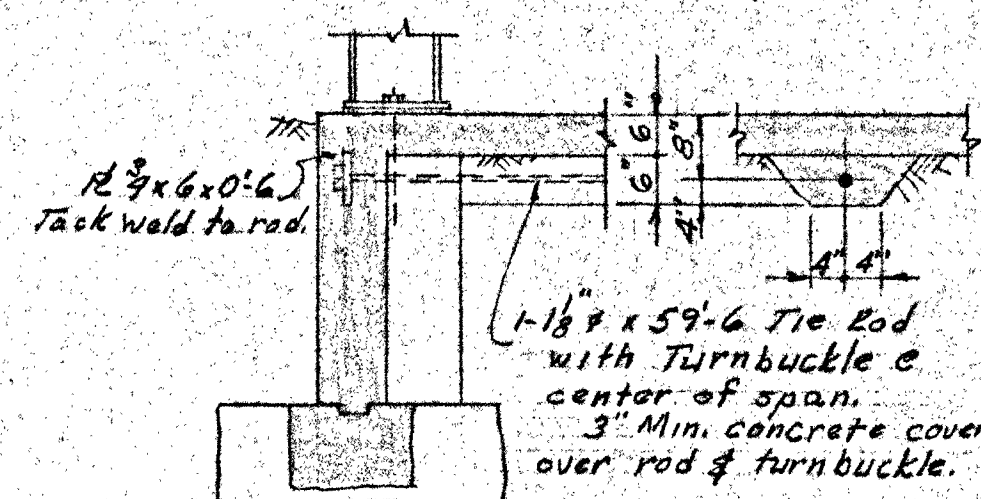
| PIER SCHEDULE |                              |                                |                              |
|---------------|------------------------------|--------------------------------|------------------------------|
| COLUMN NUMBER | 1-7<br>12-18                 | 2-5-4-5<br>6-13-14<br>15-16-17 | 8-9<br>10-11                 |
| FLOOR         | 4                            | 10                             | 4                            |
|               | Steel Framing<br>By Other    |                                |                              |
| FIRST FLOOR   | 100-0<br>18x22               | 100-0<br>12x18                 | 100-0<br>10x18               |
| TOP FOOTING   | 97-0<br>3/4" x 6" x 4" AK T1 | 97-0<br>3/4" x 6" x 4" AK T2   | 97-0<br>3/4" x 6" x 4" AK T3 |

See Col. Ftg. Sch. for details

1/2" Clear All  
Sides (Typ.)

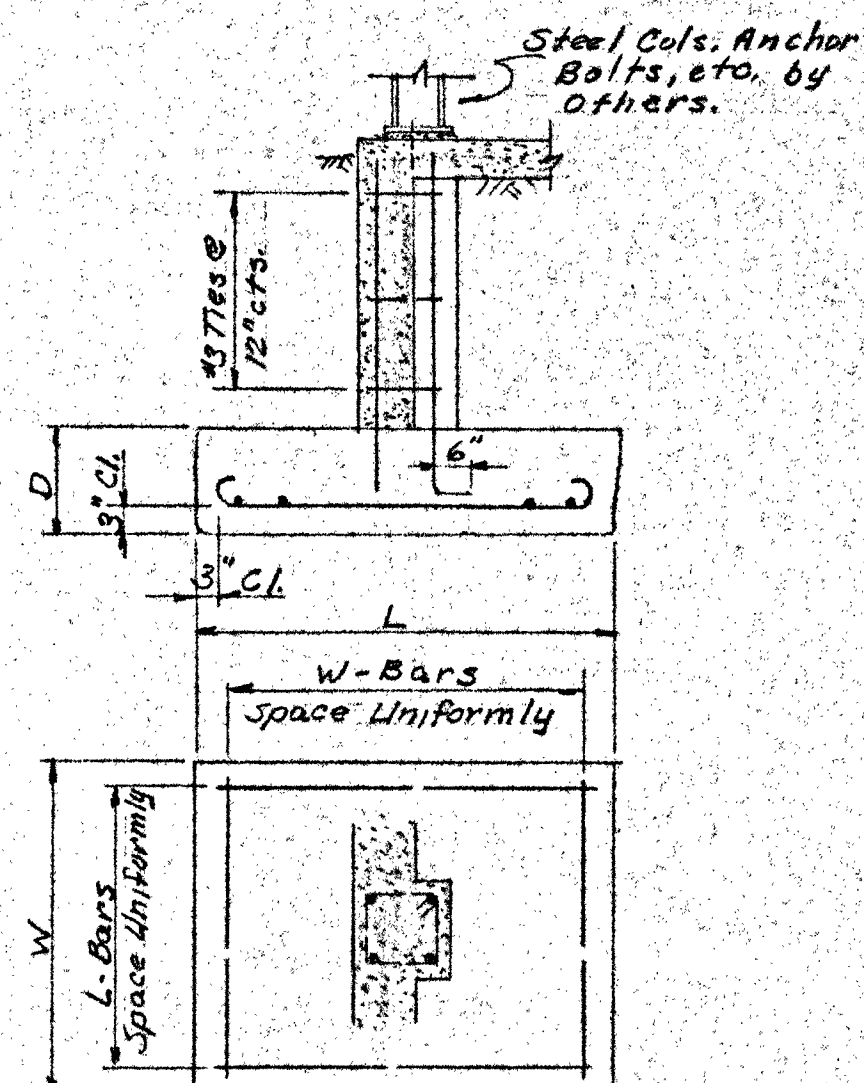


TYPICAL COLUMN SECTIONS



SECTION 11-11

DETAIL - FRAME TIE RODS  
Scale: 1/4"=1'-0"  
NOTE: 5 Required.

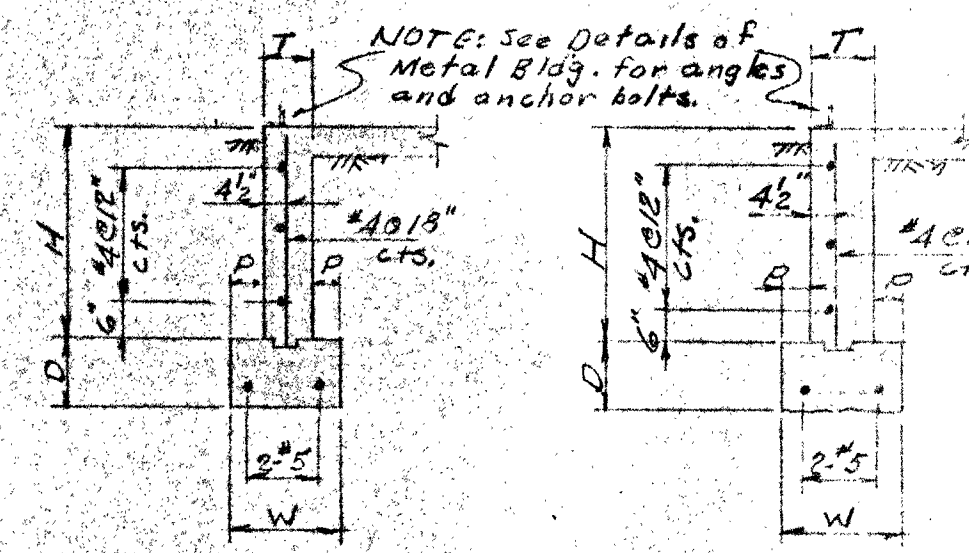


TYPICAL PIER FOOTING DETAIL

| SCHEDULE OF PIER FOOTINGS |          |      |     |     |                   |             |      |        |        |    |      |
|---------------------------|----------|------|-----|-----|-------------------|-------------|------|--------|--------|----|------|
| PIER NO                   | No. REQD | SIZE |     |     | ELEV. TOP FOOTING | REINFORCING |      |        |        |    |      |
|                           |          | W    | L   | D   |                   | W-BARS      |      |        | L-BARS |    |      |
|                           |          |      |     |     |                   | No          | SIZE | LENGTH | MARK   | No | SIZE |
| 1-7-12-13                 | 4        | 2-6  | 2-6 | 1-2 | 97-0              | 5           | #4   | 3-0    | F1     | 5  | #4   |
| 2-3-4-5                   | 10       | 4-2  | 4-2 | 1-4 | 97-0              | 9           | #4   | 4-8    | F2     | 9  | #4   |
| 6-13-14                   | 10       | 4-2  | 4-2 | 1-4 | 97-0              | 9           | #4   | 4-8    | F2     | 9  | #4   |
| 15-16-17                  | 4        | 2-6  | 2-6 | 1-2 | 97-0              | 5           | #4   | 3-0    | F1     | 5  | #4   |
| 7-8-9-10                  | 4        | 2-6  | 2-6 | 1-2 | 97-0              | 5           | #4   | 3-0    | F1     | 5  | #4   |

| SCHEDULE OF CONCRETE FOUNDATION WALLS |                    |      |             |             |            |     |     |     |     |  |  |
|---------------------------------------|--------------------|------|-------------|-------------|------------|-----|-----|-----|-----|--|--|
| WALL MARK                             | No. OF WALLS REQD. | TYPE | ELEVATIONS  |             | DIMENSIONS |     |     |     |     |  |  |
|                                       |                    |      | TOP OF WALL | TOP OF FTG. | H          | T   | D   | W   | O   |  |  |
| W1                                    | 1                  | A    | 100-0       | 97-0        | 3-0        | 0-4 | 0-3 | 1-2 | 1-0 |  |  |
| W2                                    | 2                  | A    | do          | do          | 3-0        | 0-3 | 0-3 | 1-2 | 1-0 |  |  |
| W3                                    | 2                  | B    | do          | do          | 3-0        | 0-3 | 0-3 | 1-2 | 1-0 |  |  |
| W4                                    | 1                  | B    | do          | do          | 3-0        | 0-3 | 0-3 | 1-2 | 1-0 |  |  |
| W5                                    | 1                  | A    | do          | do          | 3-0        | 0-3 | 0-3 | 1-2 | 1-0 |  |  |
| W6                                    | 3                  | A    | do          | do          | 3-0        | 0-3 | 0-3 | 1-2 | 1-0 |  |  |
| W7                                    | 3                  | B    | do          | do          | 3-0        | 0-3 | 0-3 | 1-2 | 1-0 |  |  |
| W8                                    | 1                  | B    | do          | do          | 3-0        | 0-3 | 0-3 | 1-2 | 1-0 |  |  |
| W9                                    | 1                  | A    | do          | do          | 3-0        | 0-3 | 0-3 | 1-2 | 1-0 |  |  |
| W10                                   | 1                  | A    | do          | do          | 3-0        | 0-3 | 0-3 | 1-2 | 1-0 |  |  |
| W11                                   | 1                  | A    | do          | do          | 3-0        | 0-3 | 0-3 | 1-2 | 1-0 |  |  |
| W12                                   | 1                  | B    | do          | do          | 3-0        | 0-3 | 0-3 | 1-2 | 1-0 |  |  |
| W13                                   | 1                  | B    | do          | do          | 3-0        | 0-3 | 0-3 | 1-2 | 1-0 |  |  |
| W14                                   | 1                  | B    | 100-0       | 97-0        | 3-0        | 0-3 | 0-3 | 1-2 | 1-0 |  |  |

NOTE: Wall types are intended to show reinforcing and general shape of wall but not necessarily to indicate the position or type of floor system at the wall. See Arch. Wall sections for door sills, metal wall anchors, etc.



TYPICAL FOUNDATION WALLS

#### GENERAL NOTES

##### CONCRETE AND REINFORCING STEEL

All concrete shall have a minimum compressive strength of 3,000 lbs. per square inch at 28 days. The mixing and placing of concrete and details of construction shall conform to the requirements of the A.C.I. Building Code Requirements for Reinforced Concrete (ACI 318-71). The minimum concrete coverage for reinforcing steel, unless otherwise noted or detailed, shall be 3/4" for slabs and stairs, 2" for concrete walls, and 3" for footings and other concrete deposited against the ground.

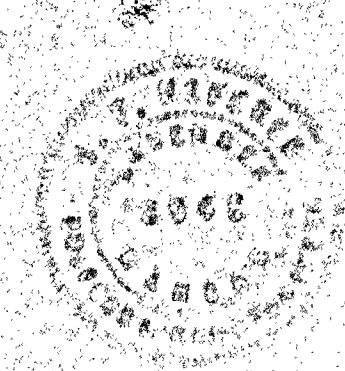
All reinforcing bars shall be new billet steel conforming to A.S.T.M. Specification A615-Grade 40. Unless otherwise noted or detailed, reinforcing bars shall be lapped a minimum of 12 bar diameters at all splices. All bars shall be properly spaced, wired and supported with approved metal bar supports, following in general procedures outlined in the latest edition of the A.C.I. Manual of Standard Practice for Detailing Reinforced Concrete Structures (ACI 315).

All reinforcing bars #3 or larger shall have deformations in accordance with ASTM Specification A305.

It shall be the responsibility of the contractor that the length and number of the bars conforms to the details shown on the drawings. See Specifications.

##### FOUNDATION MATERIAL

All wall and pier footings shall bear on a natural soil below all fill and top soil in a material capable of sustaining a safe allowable pressure of 2,000 lbs. per square foot. Excavations shall be inspected and approved by the Architect or his representative before placing concrete. All footings shall be placed to lines of neat excavation.



22 Mar '74

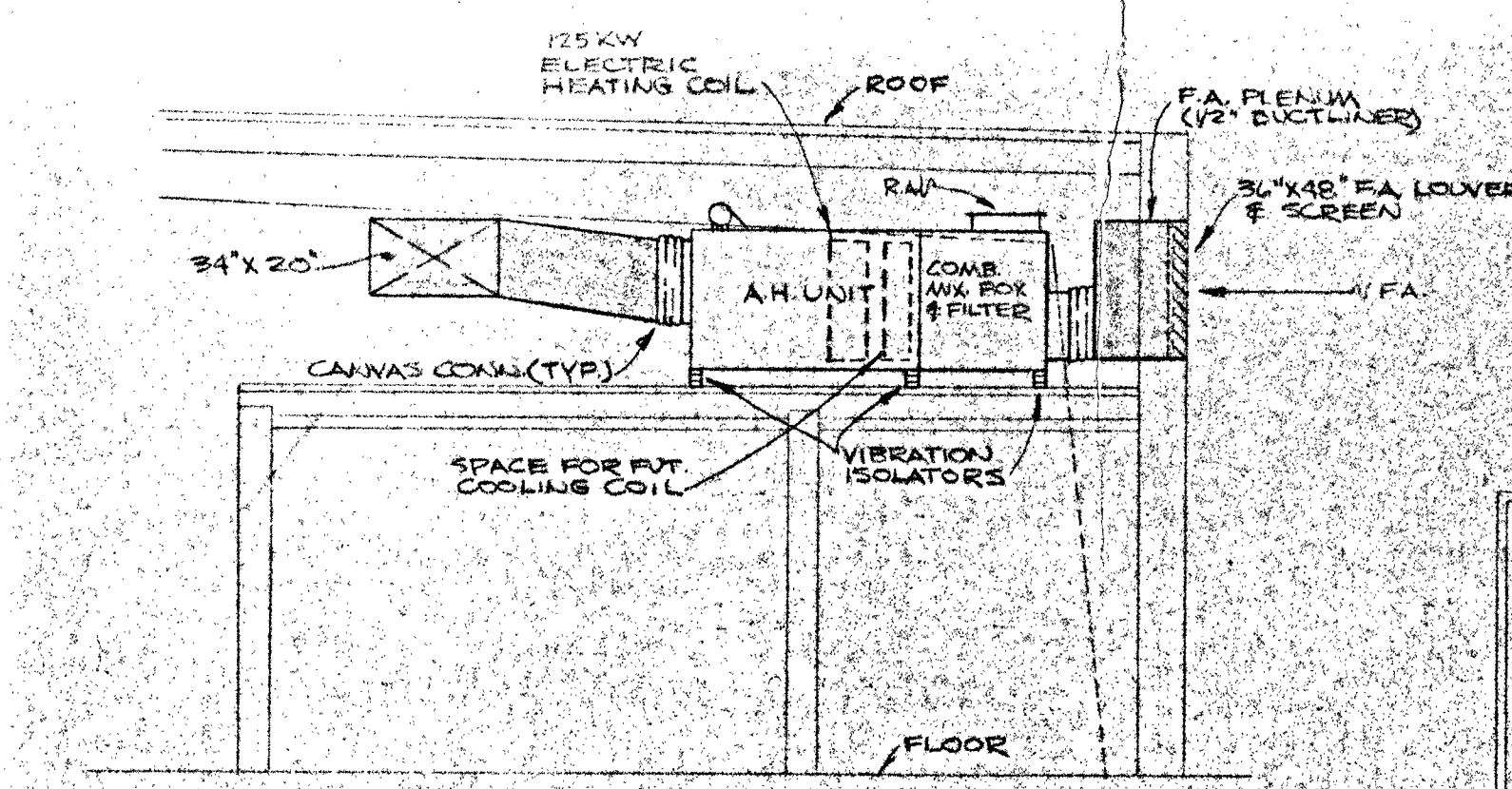
CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS AT BUILDING SITE

THOS. W. WILLIAMSON AND ASSOCIATES  
ARCHITECTS  
KANSAS CITY, MISSOURI  
ROSSVILLE HIGH SCHOOL SHOP & CLASSROOM ADDITION

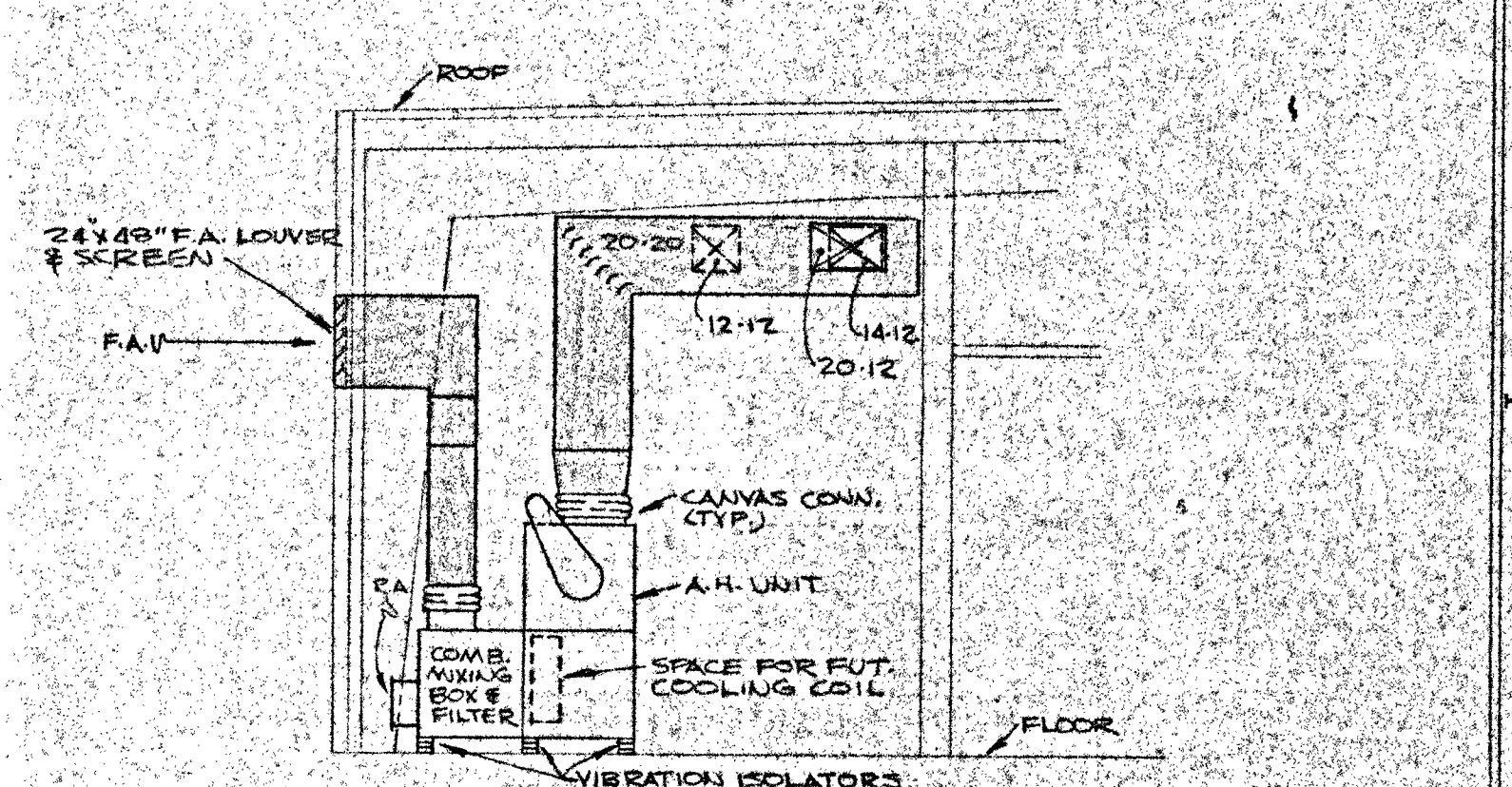
|                |     |
|----------------|-----|
| MARCH 20, 1974 |     |
| DESIGN BY      | GFH |
| REVISIONS      |     |
| S              | 1   |

**AIR HANDLING UNITS**  
CLASSROOM A.H. UNIT - MACQUAY #LS-106V VERTICAL UNIT, 3000 CFM @ 5/8" E.S.P., MIN. 1/2 H.P., 480V, 3P, W/ SPACE FOR FUTURE COOLING COIL, COMBINATION FILTER & MIXING BOX  
SHOP A.H. UNIT - MACQUAY #LS-111H HORIZ. UNIT, 4000 CFM @ 5/8" E.S.P., MIN. 3/4 H.P., 480V, 3P, W/ ELECTRIC HEATING COIL SECTION, SPACE FOR FUTURE COOLING COIL, COMBINATION FILTER & MIXING BOX

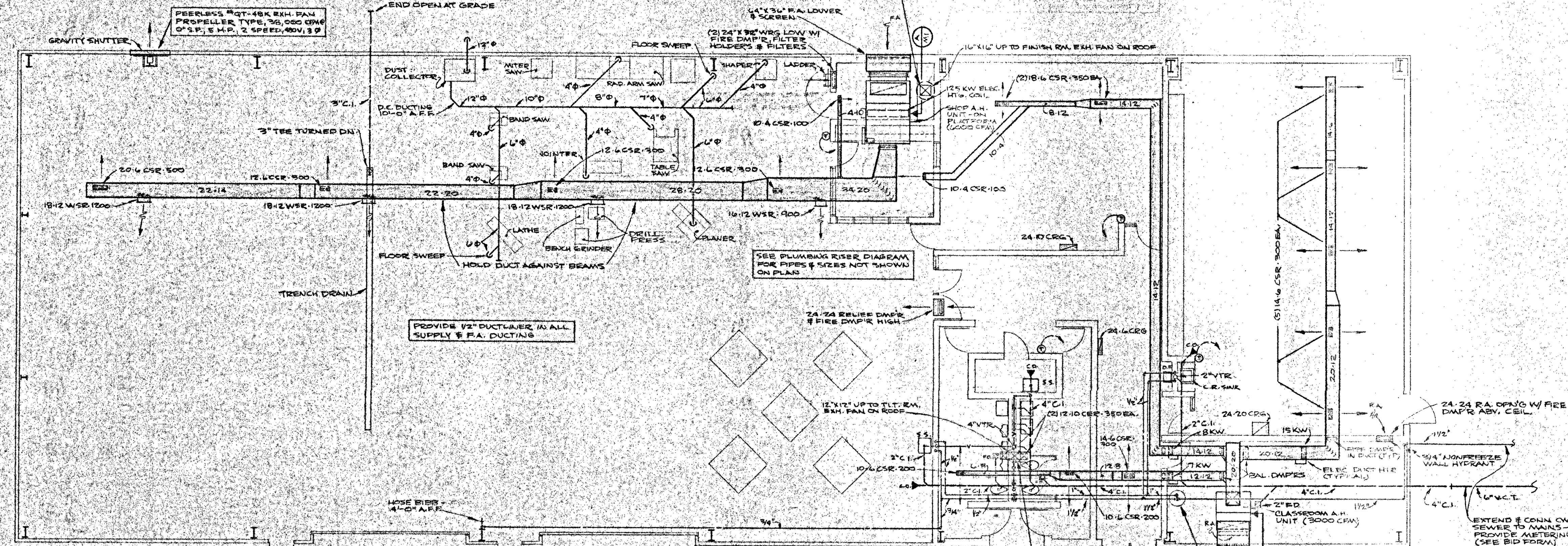
**GRILLES, REGISTERS, LOUVERS, & DAMPERS**  
CSR - TITUS SERIES 200, 1" 2 WAY BLOW, ALUMINUM, W/ ETCHED & CLEAR LACQUER FINISH, O.B. DAMP.  
CRG - TITUS #ES-272-S, ALUMINUM, W/ ETCHED & CLEAR LACQUER FINISH, O.B. DAMP.  
WSR - TITUS #ES-272-S, ALUMINUM, PRIME COAT, O.B. DAMP.  
WRS - TITUS #ES-272-S, ALUMINUM, PRIME COAT, O.B. DAMP.  
LOUVER - RUSKIN #L-3, GALVANIZED, 1/2" MESH HARDWARE CLOTH  
RELIEF DAMP - RUSKIN #R-1, FABRIC BLADE, W/ EXPANDED METAL GRILLE  
FIRE DAMP - RUSKIN #F-1, FOLDING BLADE W/ FUSIBLE LINK  
BALANCING DAMP - O.B. DAMP W/ LOCKING QUADRANT



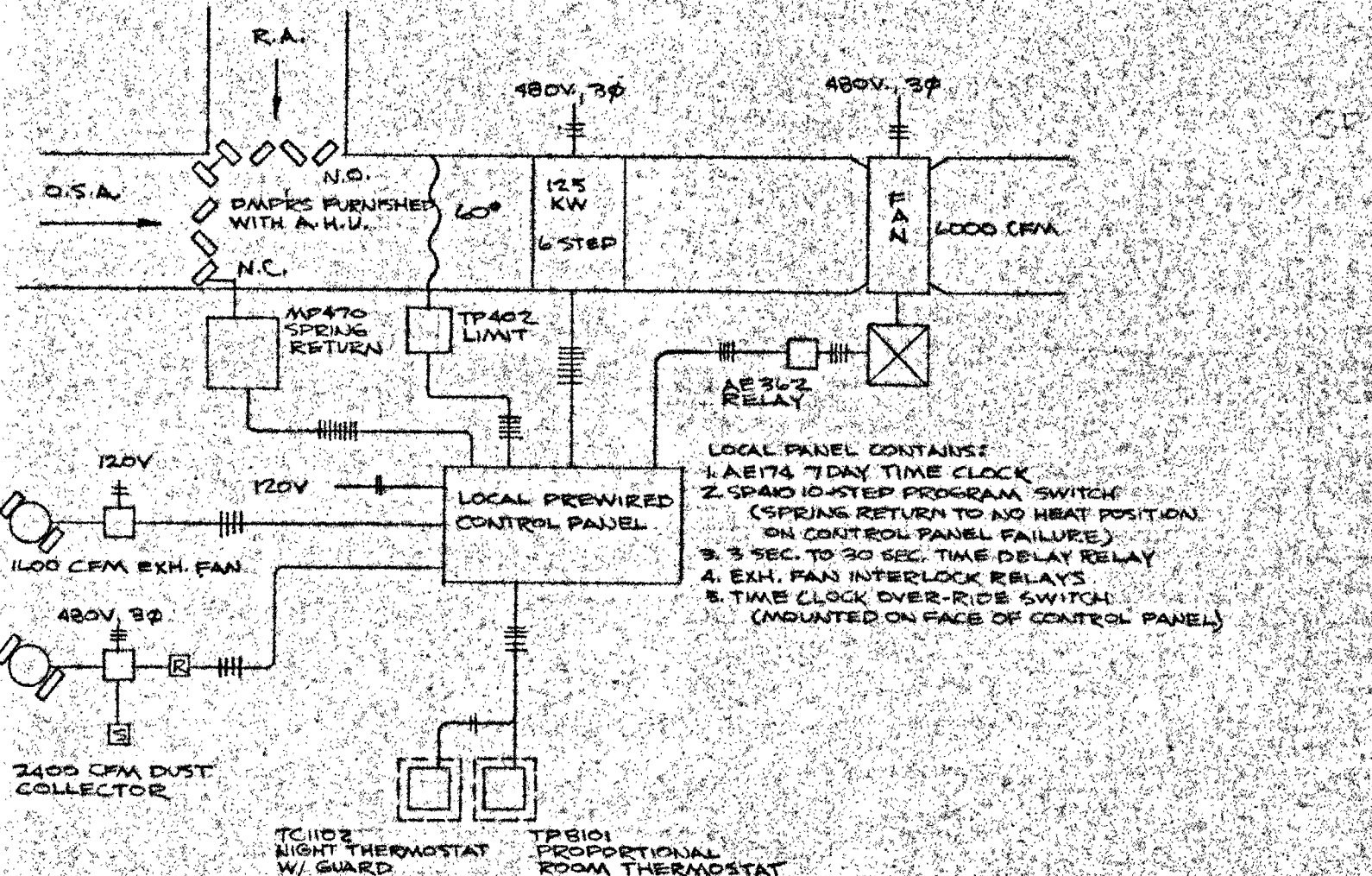
SECTION A-M1  
SCALE: 1/4" = 1'-0"



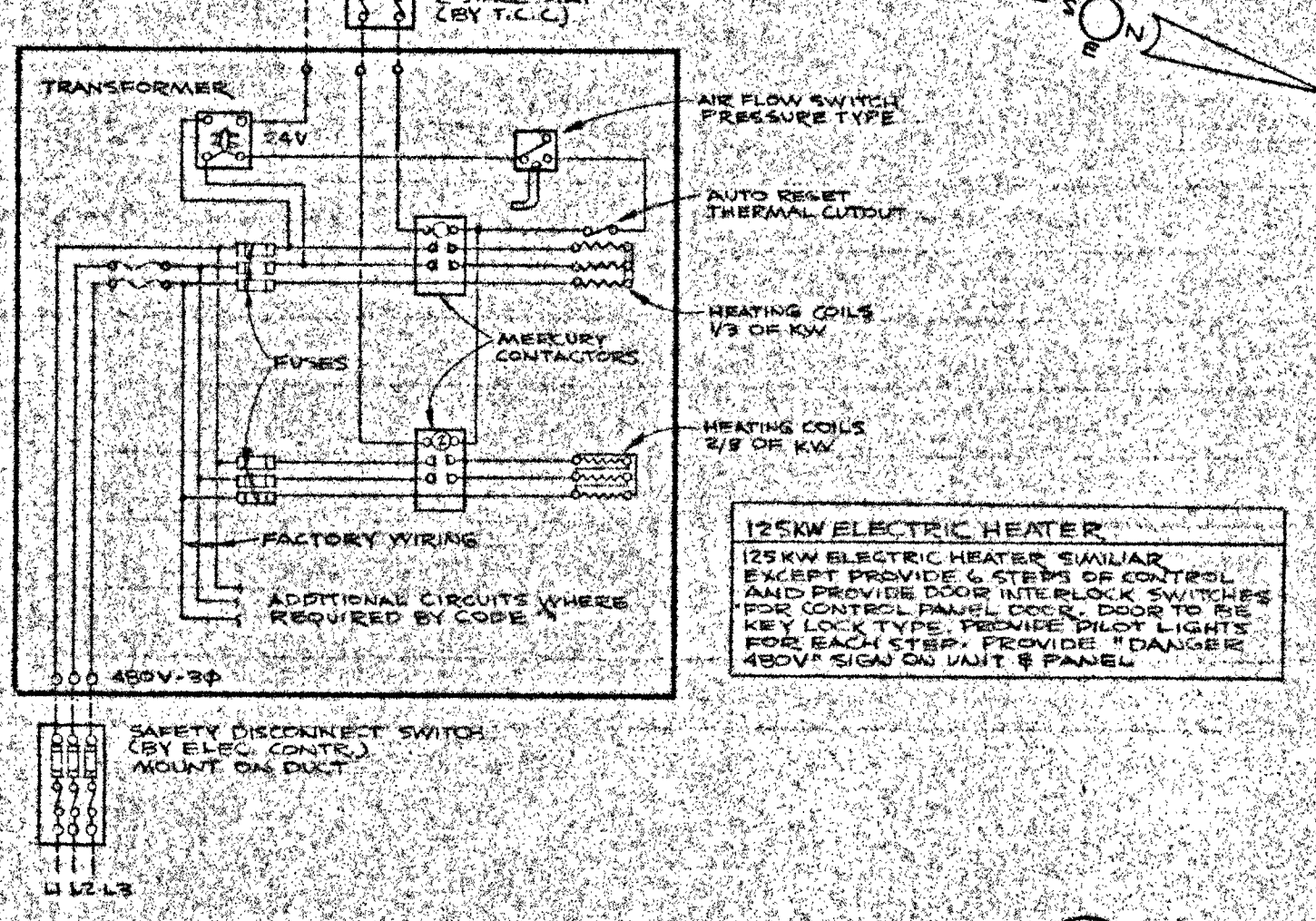
SECTION B-M1  
SCALE: 1/4" = 1'-0"



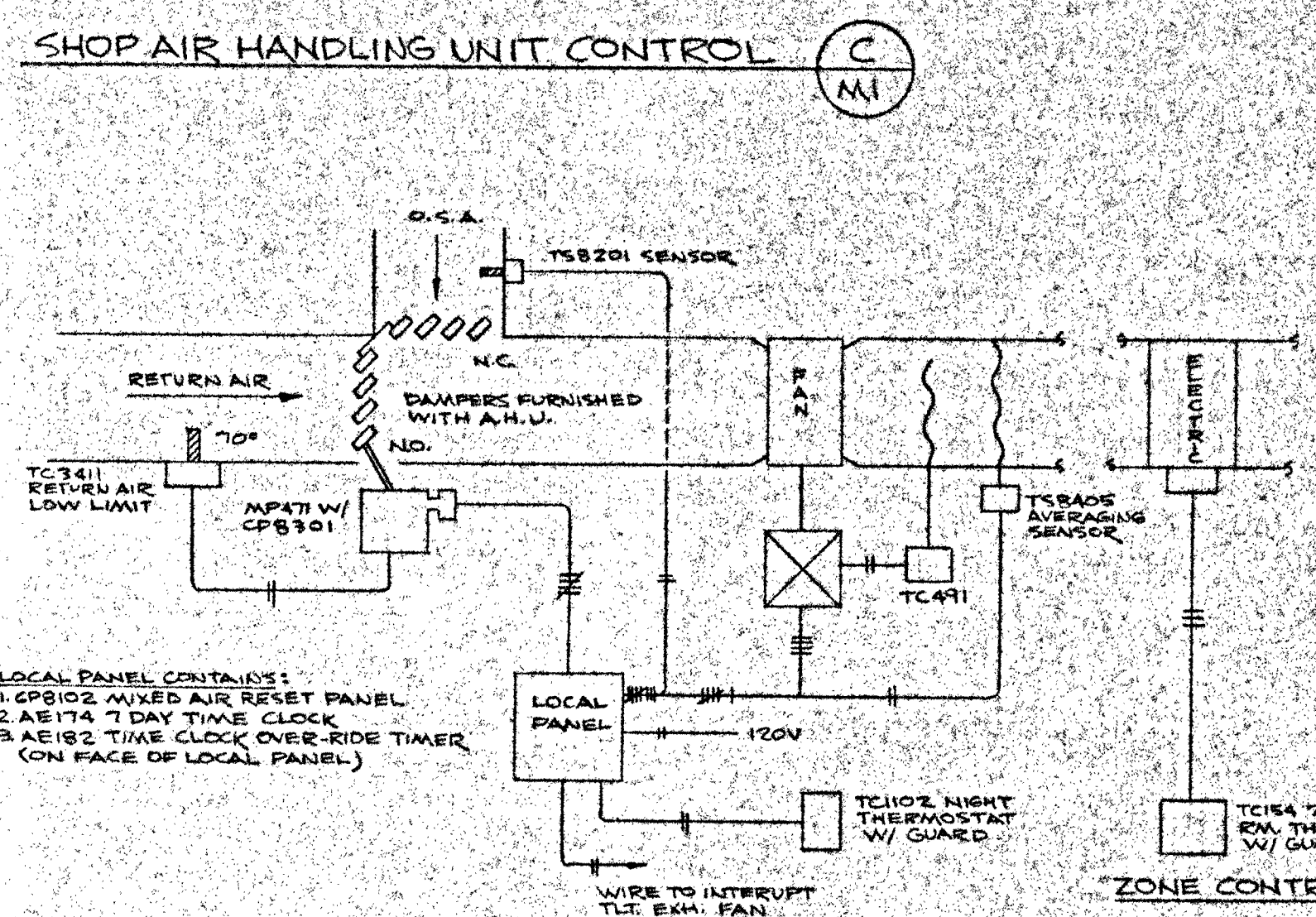
MECHANICAL FLOOR PLAN  
SCALE: 1/8" = 1'-0"



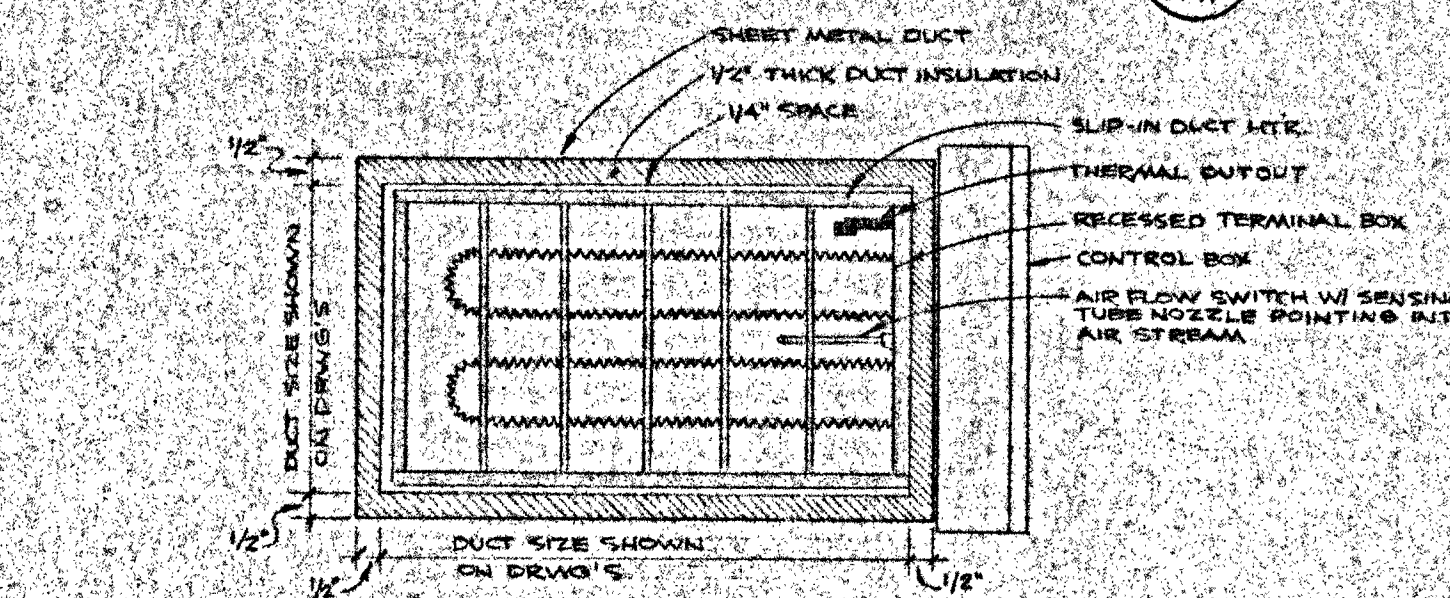
SHOP AIR HANDLING UNIT CONTROL  
C-M1



ELECTRIC DUCT HT'R. WIRING DIAGRAM  
E-M1



CLASSROOM AIR HANDLING UNIT CONTROL  
D-M1



ELEC. DUCT HT'R. INSTALLATION DETAIL  
F-M1

FIXTURE BRANCH SCHEDULE

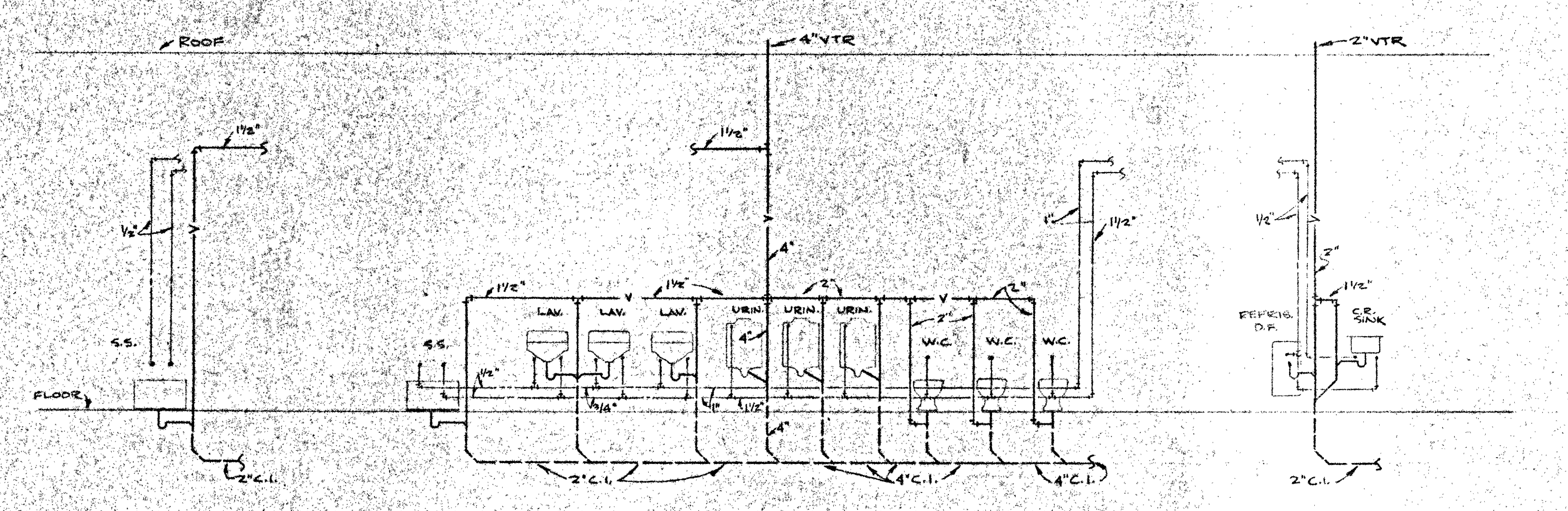
| FIXTURE      | WASTE  | VENT   | CW   | HW     |
|--------------|--------|--------|------|--------|
| WATER CLOSET | 4"     | 2"     | 1"   |        |
| URINAL       | 2"     | 1 1/2" | 1"   |        |
| LAVATORY     | 1 1/2" | 1 1/2" | 1/2" | 1 1/2" |
| SERVICE SINK | 2"     | 1 1/2" | 1/2" | 1 1/2" |
| DR. FTL.     | 1 1/2" | 1 1/2" | 1/2" |        |
| C.R. SINK    | 1 1/2" | 1 1/2" | 1/2" | 1 1/2" |

MECHANICAL SYMBOLS

- COLD WATER
- HOT WATER
- WASTE
- VENT
- GATE VALVE
- BALANCING VALVE
- STRAINER
- CHECK VALVE
- RISE & FALL IN PIPING
- THERMOSTAT
- FLOOR DRAIN
- CLEAN OUT
- ABOVE FINISHED FLOOR
- VTR VENT THRU ROOF
- C.I. CAST IRON
- V.C.T. VITRIFIED CLAY TILE
- CSR CEILING SUPPLY REGISTER
- CER CEILING EXHAUST REGISTER
- CRS CEILING RETURN GRILLE
- WSR WALL SUPPLY REGISTER
- WRS WALL RETURN GRILLE

PLUMBING FIXTURE SCHEDULE

| DESIGNATION                  | DESCRIPTION                                          | MODEL                              | FITTINGS, ACCESSORIES, ETC.                                                                           |
|------------------------------|------------------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------------------------|
| WATER CLOSET                 | FLR MNT'D., ELONG., SIPHON JET                       | MADERA # 2222.016                  | #110 SLOW ROYAL FLUSH VALVE<br>#5320.114 MOLTEX SEAT                                                  |
| URINAL                       | WALL HUNG ELBOW OUT                                  | LYNEROCK # 6530.018                | #180 SLOW ROYAL FLUSH VALVE                                                                           |
| LAVATORY                     | 20" X 18" WALL HUNG FOR SPREAD FITTING CONCEALED ARM | SCOTIA # 0360.057                  | #2245.219 HERITAGE FAUCET W/ AERATOR<br>#4402.012 P-TRAP<br>#114" X 1 1/2" TURN CONCEALED ARM CARRIER |
| SERVICE SINK                 | 24" X 24" X 12" HIGH FLOOR MOUNTED TERRAZZO          | STERN - WILLIAMS # 58-900          | #8344.111 FAUCET W/ BRACE<br>STOPS, V.B. & PLASTIC HOSE<br>BRASS STRAINER, P-TRAP                     |
| REFRIG. DRINKING FTL. (115V) | WALL HUNG, STAINLESS TOP, REFRIGERATED               | CORDELY # WF-5000 W/ VINYL CABINET | STOP VALVE, P-TRAP                                                                                    |
| CLASSROOM SINK               | STAINLESS STEEL SINK - 18 GAUGE 16 1/4" X 20 1/4"    | SUNSET # 6064.216                  | #8310.070 H F CW FAUCET W/ GOOSENECK<br>#4331.013 STRAINER, P-TRAP, SUPPLIES W/ STOPS                 |



PLUMBING RISER DIAGRAM  
NO SCALE

CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS AT BUILDING SITE

FRANCIS HENDERSON  
LICENSED  
KANSAS  
6037  
P.L.C. 25,  
1-1-1  
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REVISIONS  
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## ELECTRICAL SYMBOLS

|  |                                                                  |
|--|------------------------------------------------------------------|
|  | HOME RUN TO PANEL CIRCUITS AND CONDUCTORS WITH NEUTRAL INDICATED |
|  | BRANCH CIRCUIT CONCEALED IN CEILING                              |
|  | BRANCH CIRCUIT CONCEALED IN FLOOR                                |
|  | CIRCUIT #2 LOADING BEYOND THIS POINT PANELBOARD                  |
|  | FLUORESCENT FIXTURE                                              |
|  | INCANDESCENT FIXTURE                                             |
|  | EXIT LIGHT                                                       |
|  | DUPLEX WALL OUTLET                                               |
|  | DUPLEX WALL OUTLET ABOVE COUNTER                                 |
|  | SINGLE POLE SWITCH                                               |
|  | THREE WAY SWITCH                                                 |
|  | DISCONNECT SWITCH                                                |
|  | MOTOR CONNECTION                                                 |
|  | STARTER OR CONTROLLER CONNECTION                                 |
|  | ELECTRIC HEATER IDENTIFICATION NUMBER                            |
|  | 2 GANG SWITCH & OUTLET                                           |
|  | DRINKING FOUNTAIN                                                |
|  | ABOVE FINISHED FLOOR                                             |
|  | WEATHERPROOF                                                     |

## LIGHTING FIXTURE SCHEDULE

| TYPE | MANUFACTURER           | LAMPS        | VOLTS | DESCRIPTION                                 |
|------|------------------------|--------------|-------|---------------------------------------------|
| A.   | WILLIAMS # 5224-KA     | 4-40W RS     | 277   | 2'X4' LAY-IN TROFFER W/ACRYLIC LENS         |
| B.   | WILLIAMS # 524         | 2-96 HO      | 277   | 8'-0" INDUSTRIAL HIGH OUTPUT FIXTURE        |
| C.   | APPLETON # APS-445-118 | 4-40W RS     | 277   | EXPLOSION PROOF FLUORESCENT FIXTURE         |
| D.   | PES #44                | 1-100W       | 120   | PORCELAIN RECEPTACLE                        |
| E.   | DEVINE # B250-GBA      | 1-150W       | 120   | WALL BRACKET WITH CAST GUARD & BLACK FINISH |
| F.   | WILLIAMS # 7622        | 2-40W RS     | 277   | 4'-0" 2 LAMP STRIP                          |
| X.   | DEVINE # UB120-SR      | 2-20W T6 1/2 | 277   | UNIVERSAL MOUNT EXIT LIGHT                  |
| G.   | DEVINE # F603-AMB      | 1-150W R40   | 120   | RECESSED LIGHT W/ BLACK LAMPER GUARD        |

## FIRE ALARM SYSTEM

| SYMBOL | MANUFACTURER & NO. | DESCRIPTION        |
|--------|--------------------|--------------------|
|        | EDWARDS # 270-SPD  | BREAKGLASS STATION |
|        | EDWARDS # 860      | ALARM HORN         |
|        | EDWARDS # 1240     | CONTROL PANEL      |

NOTES:  
1. PROVIDE 1/2" CONDUIT FROM CONTROL PANEL TO ALL BREAKGLASS STATIONS AND HORNS.  
2. INSTALL WIRING AS REQUIRED BY MANUFACTURER.

## CLOCKS

| SYMBOL | MANUFACTURER & NO. | DESCRIPTION                          |
|--------|--------------------|--------------------------------------|
|        | EDWARDS # 1822     | 12" ROUND SURFACE MOUNT CLOCK + 7-6" |

## ELECTRIC DUCT HEATER &amp; SAFETY SWITCH SCHEDULE

| IDEN. NO. | SIZE KW | SAFETY SWITCH SIZE - AMPS | VOLTS & PHASE |
|-----------|---------|---------------------------|---------------|
| ①         | 125     | 200A-3P                   | 480-3         |
| ②         | 15      | 30A-3P                    | "             |
| ③         | 8       | "                         | "             |
| ④         | 7       | "                         | "             |

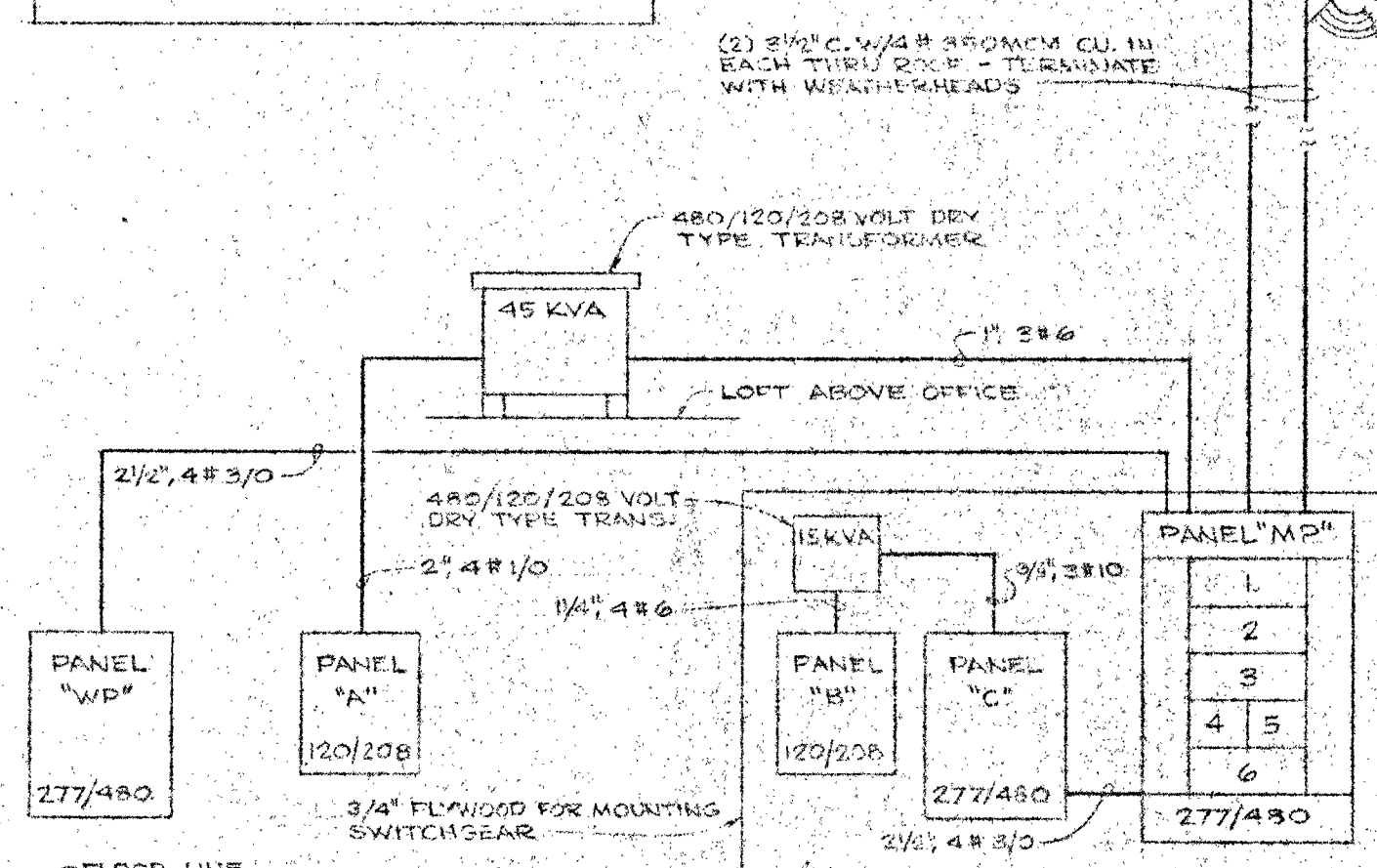
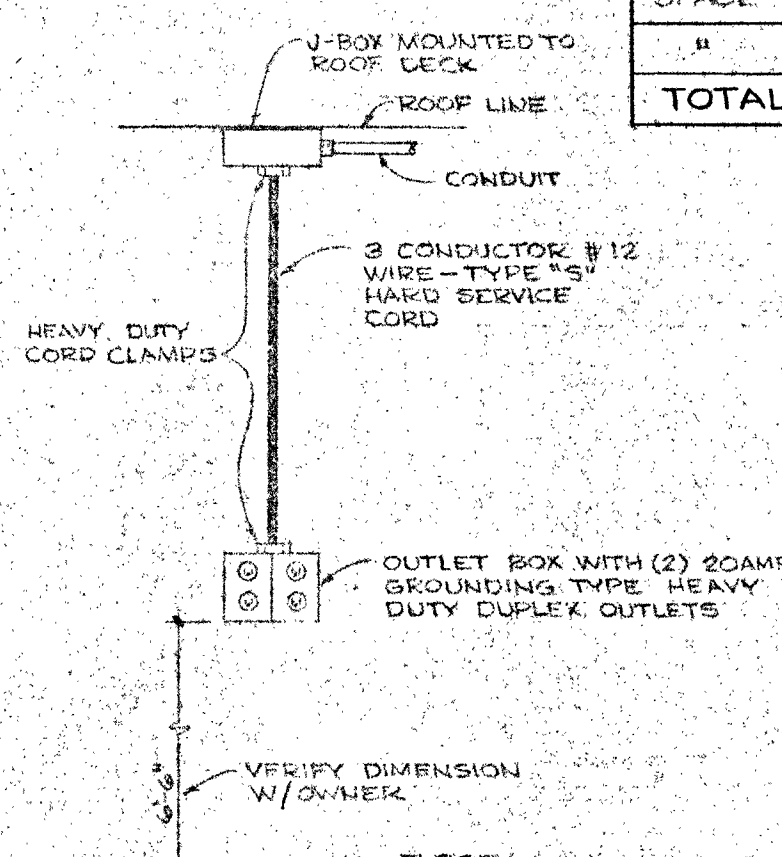
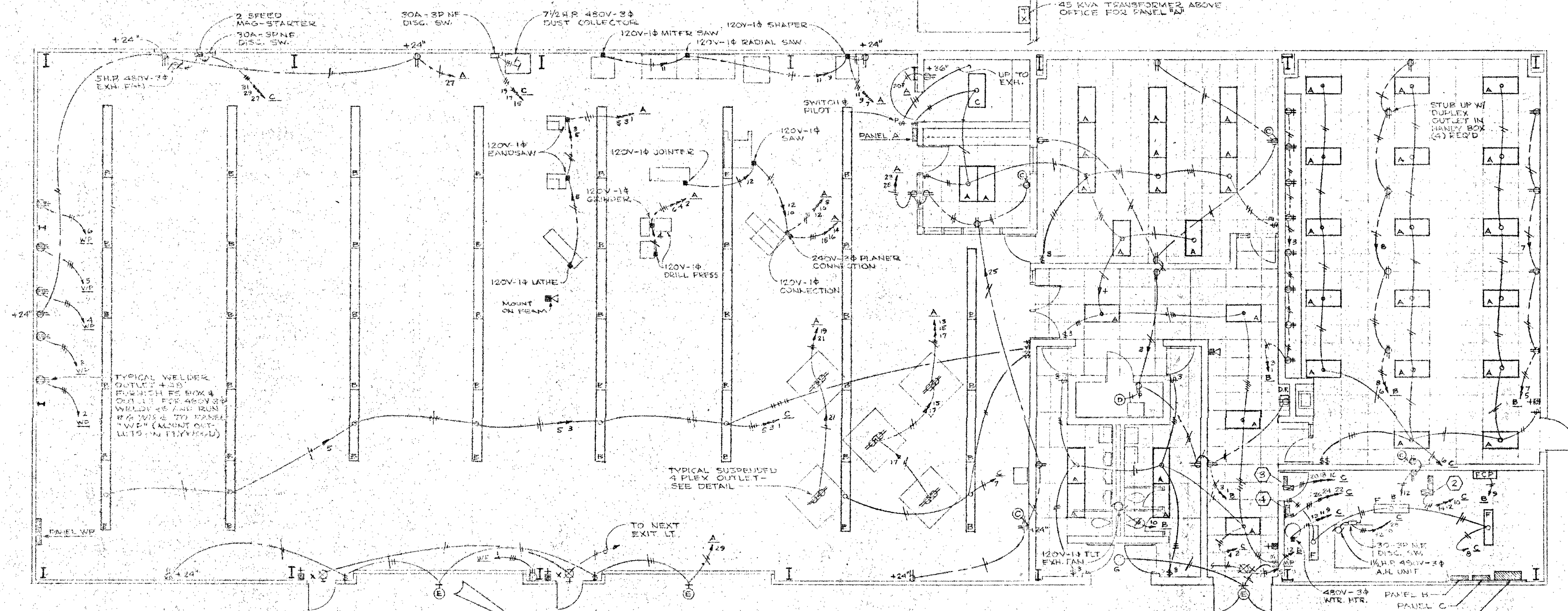
- FURNISH AND INSTALL NFMA I NON-FUSE DISCONNECT SWITCH ADJACENT TO EACH DUCT HEATER AS INDICATED IN ABOVE SCHEDULE.
- DUCT HEATERS FURNISHED BY MECHANICAL CONTRACTOR.
- ALL POWER & CONTROL WIRE BY ELECTRICAL CONTRACTOR.

## PANEL MP 800AMP M.L.O. 480V-3P-4W

| CCT NO. | SWITCH SIZE | FUSE SIZE | WIRE SIZE    | LOAD        |
|---------|-------------|-----------|--------------|-------------|
| 1       | 200A-3P     | KTS-175   | 2" 3#2/0     | 125KW HTR ① |
| 2       | 200A-3P     | FRS-200   | 2 1/2" 4#3/0 | PANEL C     |
| 3       | 200A-3P     | FRS-200   | 2 1/2" 4#3/0 | PANEL WP    |
| 4       | 60A-3P      | FRS-60    | 1" 3#6       | 45 KVA TX   |
| 5       | 30A-2P      | KTS-10    | 1/2" 2#12    | EXIT LIGHTS |
| 6       | 200A-3P     |           |              | SPACE       |

## PANEL WP SCHEDULE

I-LINE PANELBOARD WITH 200AMP M.L.O. AND: (480V, 3P, 4W)  
6-60 AMP-3P BREAKERS  
2-60 AMP-3P SPACES

ELECTRICAL RISER DIAGRAM  
NO SCALESHOP TABLE 4 PLEX OUTLET  
NO SCALEELECTRICAL PLAN  
SCALE: 1/8" = 1'-0"

| PANEL B           |       | LOCATION EQUIP. ROOM |             | MNT'G SURF.                  |               |
|-------------------|-------|----------------------|-------------|------------------------------|---------------|
| MAIN LUGS         |       | BUS 120A             |             | VOLTS 277/480 PHASE 3 WIRE 4 |               |
| FEEDER 1 1/2" 4#3 |       | TYPE NQCB            |             |                              |               |
| LOAD              | WATTS | W                    | B           | WATTS                        | LOAD          |
| GENERAL ①         | 400   | 1                    | 2           | 1200                         | GENERAL ②     |
| "                 | 400   | 3                    | 4           | 1000                         | "             |
| "                 | 400   | 5                    | 6           | 600                          | "             |
| "                 | 400   | 7                    | 8           | 600                          | "             |
| FIRE ALARM        | 500   | 9                    | 10          | 800                          | TLT. EXH. FAN |
| SPACE             | "     | 11                   | 12          | 600                          | GENERAL ③     |
| "                 | "     | 13                   | 14          | "                            | SPACE         |
| "                 | "     | 15                   | 16          | "                            | "             |
| "                 | "     | 17                   | 18          | "                            | "             |
| TOTALS            | 2900  | 7700                 | TOTAL WATTS | 4800                         |               |

| PANEL C             |       | LOCATION EQUIP. ROOM |             | MNT'G SURF.                  |                  |
|---------------------|-------|----------------------|-------------|------------------------------|------------------|
| MAIN LUGS           |       | BUS 225A             |             | VOLTS 277/480 PHASE 3 WIRE 4 |                  |
| FEEDER 2 1/2" 4#3/0 |       | TYPE NHIS            |             |                              |                  |
| LOAD                | WATTS | W                    | B           | WATTS                        | LOAD             |
| SHOP LTG.           | 2500  | 1                    | 2           | 1600                         | CHGR. #1 LTG.    |
| "                   | 2500  | 3                    | 4           | 2800                         | CLASS RM LTG.    |
| "                   | 3000  | 5                    | 6           | 3400                         | " " "            |
| "                   | 2500  | 7                    | 8           | 300                          | EQUIP. LTG.      |
| 480V-3P             | 4000  | 9                    | 10          | 5000                         | 480V-3P          |
| 12 KW               | 4000  | 11                   | 12          | 5000                         | DUCT HTR (15 KW) |
| WTR. HTR.           | 4000  | 13                   | 14          | 5000                         | "                |
| 480V-3P             | 2750  | 15                   | 16          | 2666                         | 480V-3P          |
| 7 1/2 H.R.          | 2750  | 17                   | 18          | 2666                         | DUCT HTR (6 KW)  |
| DUST COLLECTOR      | 2750  | 19                   | 20          | 2666                         | "                |
| 15 KVA              | 2400  | 21                   | 22          | 2333                         | 480V-3P          |
| TX                  | 1800  | 23                   | 24          | 2333                         | DUCT HTR (7 KW)  |
| PANEL B             | 3000  | 25                   | 26          | 2333                         | "                |
| 480V-3P             | 1700  | 27                   | 28          | 650                          | 480V-3P          |
| 5 H.R.              | 1700  | 29                   | 30          | 650                          | 1 1/2 H.R.       |
| SHOP FAN            | 1900  | 31                   | 32          | 650                          | A.H. UNIT        |
| 480V-3P             | 1200  | 33                   | 34          | "                            | SPACE            |
| 5 H.R.              | 1200  | 35                   | 36          | "                            | "                |
| A.H. UNIT           | 1200  | 37                   | 38          | "                            | "                |
| SPACE               | "     | 39                   | 40          | "                            | "                |
| "                   | "     | 41                   | 42          | "                            | "                |
| TOTALS              | 47750 | 87797                | TOTAL WATTS | 40047                        |                  |

## NOTES:

- FURNISH & INSTALL RECEPTACLES FOR ALL SHOP EQUIP. SHOWN - VERIFY TYPE RECEPT. ON JOB
- SUSPEND SHOP LIGHTING FIXTURES APPROX. 12'-0" A.F.F.
- VERIFY EXACT LOCATIONS OF SHOP EQUIP. CONNECTION ON JOB
- ALL EQUIP. IN FINISH ROOM MUST BE EXPLOSION PROOF
- FURNISH & INSTALL A 208 VOLT TO 240VOLT TRANSFORMER FOR 3 PHASE, PLANER, MOTOR-VERIFY SIZE
- SEE PANEL SCHEDULES FOR WIRE SIZES NOT SHOWN
- PROVIDE GROUNDING AS REQ'D BY SERVING UTILITY

| PANEL A             |       | LOCATION SHOP |             | MNT'G SURF.                  |              |
|---------------------|-------|---------------|-------------|------------------------------|--------------|
| MAIN LUGS           |       | BUS 225A      |             | VOLTS 277/480 PHASE 3 WIRE 4 |              |
| FEEDER 2 1/2" 4#3/0 |       | TYPE NQCB     |             |                              |              |
| LOAD                | WATTS | W             | B           | WATTS                        | LOAD         |
| BANDSAW             | 936   | 1             | 2           | 732                          | DRILL PRESS  |
| BANDSAW             | 936   | 3             | 4           | 732                          | DRILL PRESS  |
| LATHE               | 926   | 5             | 6           | 960                          | GRINDER      |
| SHAPER              | 1320  | 7             | 8           | 960                          | PLANER       |
| RADIAL SAW          | 1680  | 9             | 10          | 2804                         | TABLE SAW    |
| MITER SAW           | 1260  | 11            | 12          | 1440                         | JOINTER      |
| SHOP TABLE ①        | 800   | 13            | 14          | 2275                         | 5 H.P.       |
| "                   | 800   | 15            | 16          | 2275                         | 230V-3P      |
| "                   | 800   | 17            | 18          | 2275                         | PLANER       |
| "                   | 800   | 19            | 20          | 400                          | FINISH RM. ① |
| "                   | 800   | 21            | 22          | "                            | SPACE        |
| GENERAL ①           | 600   | 23            | 24          | "                            | "            |
| "                   | 600   | 25            | 26          | "                            | "            |
| "                   | 600   | 27            | 28          | "                            | "            |
| "                   | 500   | 29            | 30          | "                            | "            |
| EXH. FAN            | 800   | 31            | 32          | "                            | SPACE        |
| "                   | "     | 33            | 34          | "                            | "            |
| "                   | "     | 35            | 36          | "                            | "            |
| "                   | "     | 37            | 38          | "                            | "            |
| "                   | "     | 39            | 40          | "                            | "            |
| "                   | "     | 41            | 42          | "                            | "            |
| TOTALS              | 14168 | 25521         | TOTAL WATTS | 14353                        |              |

- PROVIDE METERING AS REQ'D BY SERVING UTILITY
- SEE MECH. PLANS FOR ALL HVAC CONTROL WIRING BY ELEC. CONTRACTOR
- FURNISH SQUARE D U.L. LISTED TRANSFORMERS
- ALL WIRE SIZES ARE BASED ON COPPER

CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS AT BUILDING SITE