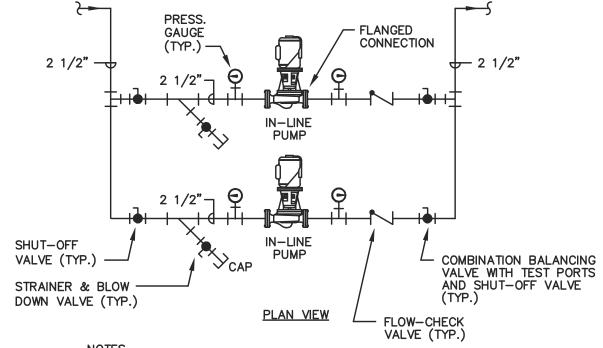


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<u>1/4"</u>1 1/2"

BUILDING 'K' CRAWL SPACE PLAN

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



1. SUPPORT PUMP FROM PIPING ONLY. DO NOT SUPPORT PUMP FROM MOTOR ON VERTICAL OR HORIZONTAL IN-LINE PUMPS.

TYPICAL HEATING H.W. CIRCULATOR **AND VALVE ASSEMBLY DETAIL**

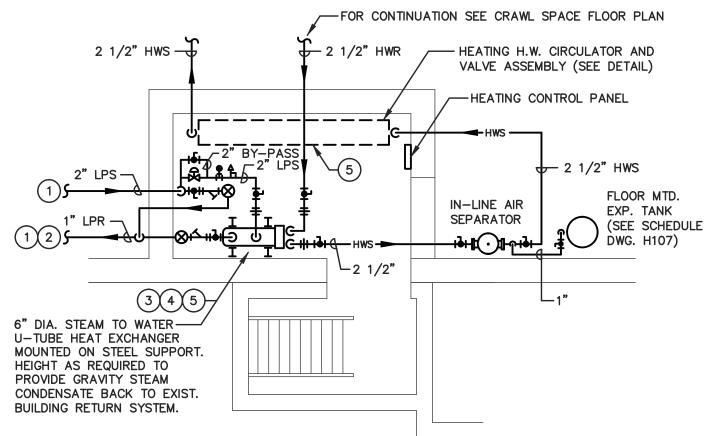
NO SCALE

MECHANICAL ROOM PLAN NOTES

- 1 CONTINUE NEW LPS&R TO POINT OF DISCONNECT OF EXISTING LPS&R PIPING AND CONNECT NEW LPS&R TO EXISTING LPS&R PIPE. CONTRACTOR TO VERIFY LOCATION IN FIELD.
- (2) PROVIDE A MINIMUM OF 1% SLOPE.
- FIELD COORDINATE HEIGHT OF HEAT EXCHANGER SO THAT THE TUBE PULL WILL CLEAR BELOW ALL EQUIPMENT, DUCTWORK, PIPING, CONDUIT, AND WIRING.
- 5 BUILDING "K"&"L" P-9 & P-10 AND HX-5 BUILDING "M" P-11 & P-12 AND HX-6 (SEE SCHEDULE DWG. H107)

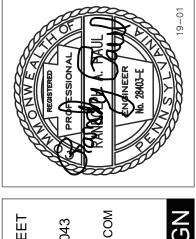
GENERAL NOTE

 CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS.
 PIPE SIZE (TYP.) → 1/2"(1.0) ← FLOW – GPM (TYP.)
 REFER TO DRAWING H107 FOR EQUIPMENT DETAILS AND SHUT-OFF VALVES.



BUILDING 'K' MECHANICAL ROOM PLAN

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



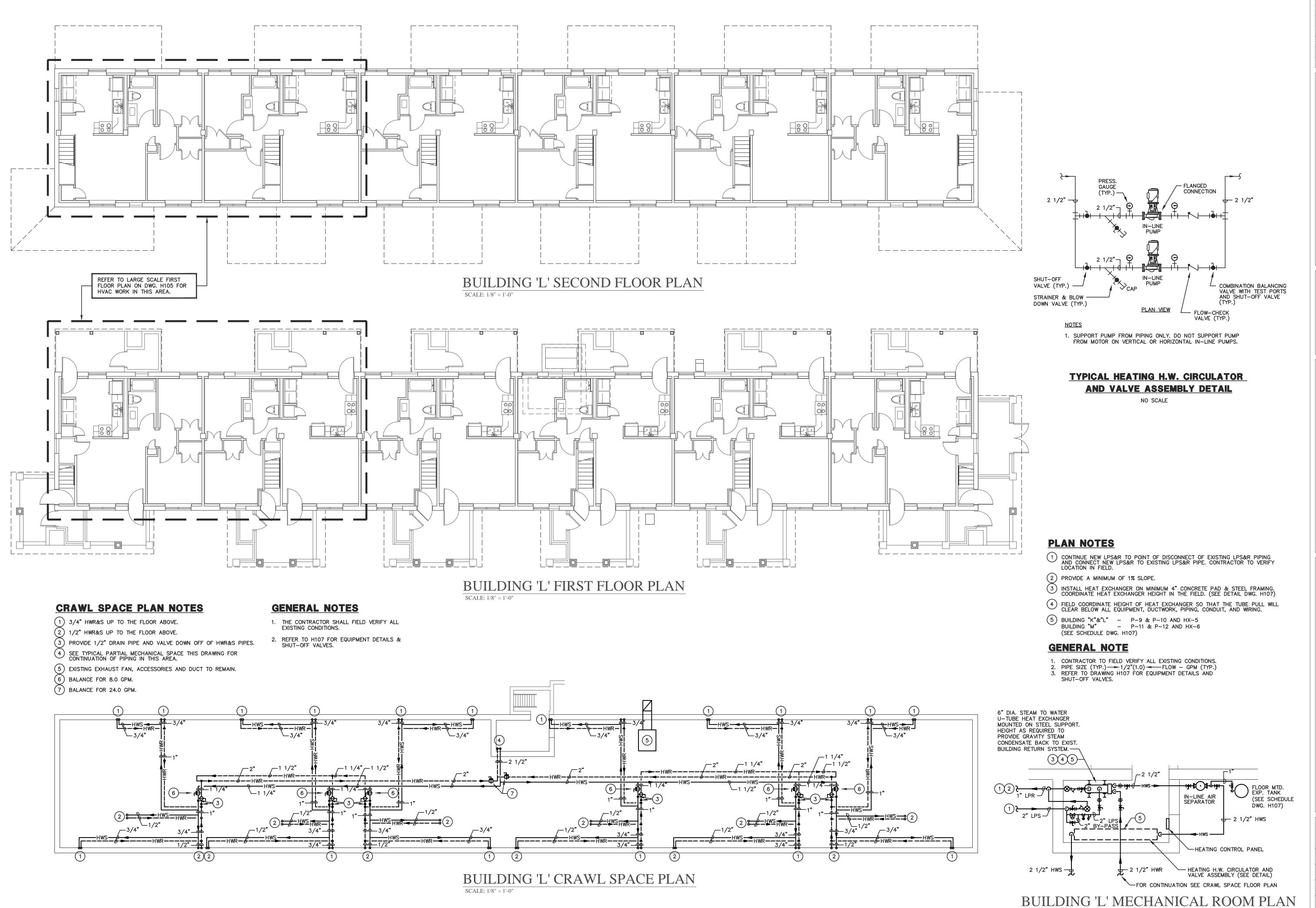
∞ RD DAY HOMES BUILDINGS K,

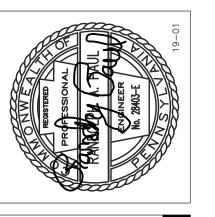
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SHEET





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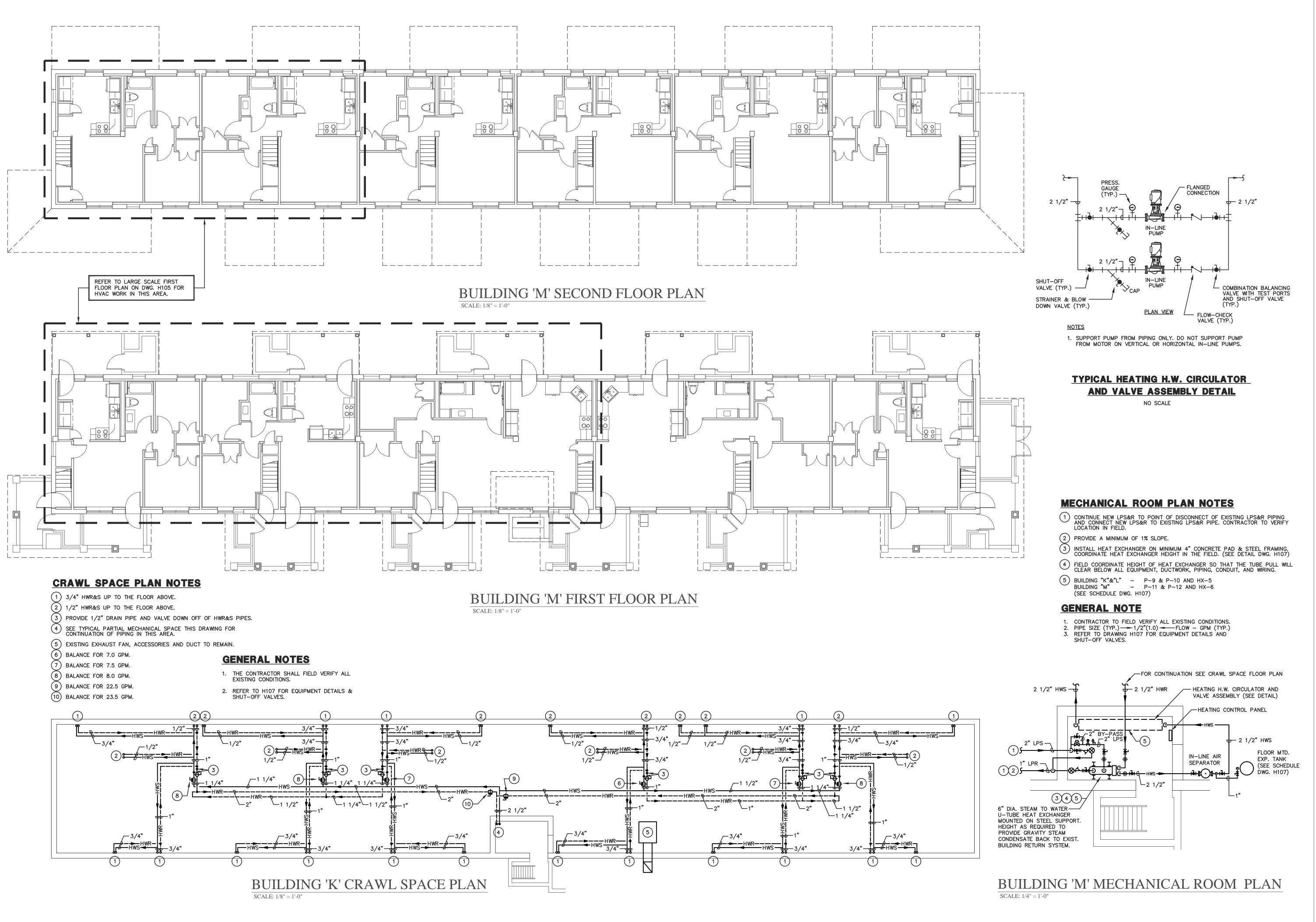
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SHEET H102

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



RANDY PAUL & ASSOCIATES, INC.
MECHANICAL & ELECTRICAL ENGINEERING
3738 PETER'S MOUNTAIN ROAD
HALFAX, PENINSYLVANIA 17032
PHONE: (717) 896-8320 FAX: (717) 896-8580
E-MAIL ADDRESS: rpa-eng@comcast.net



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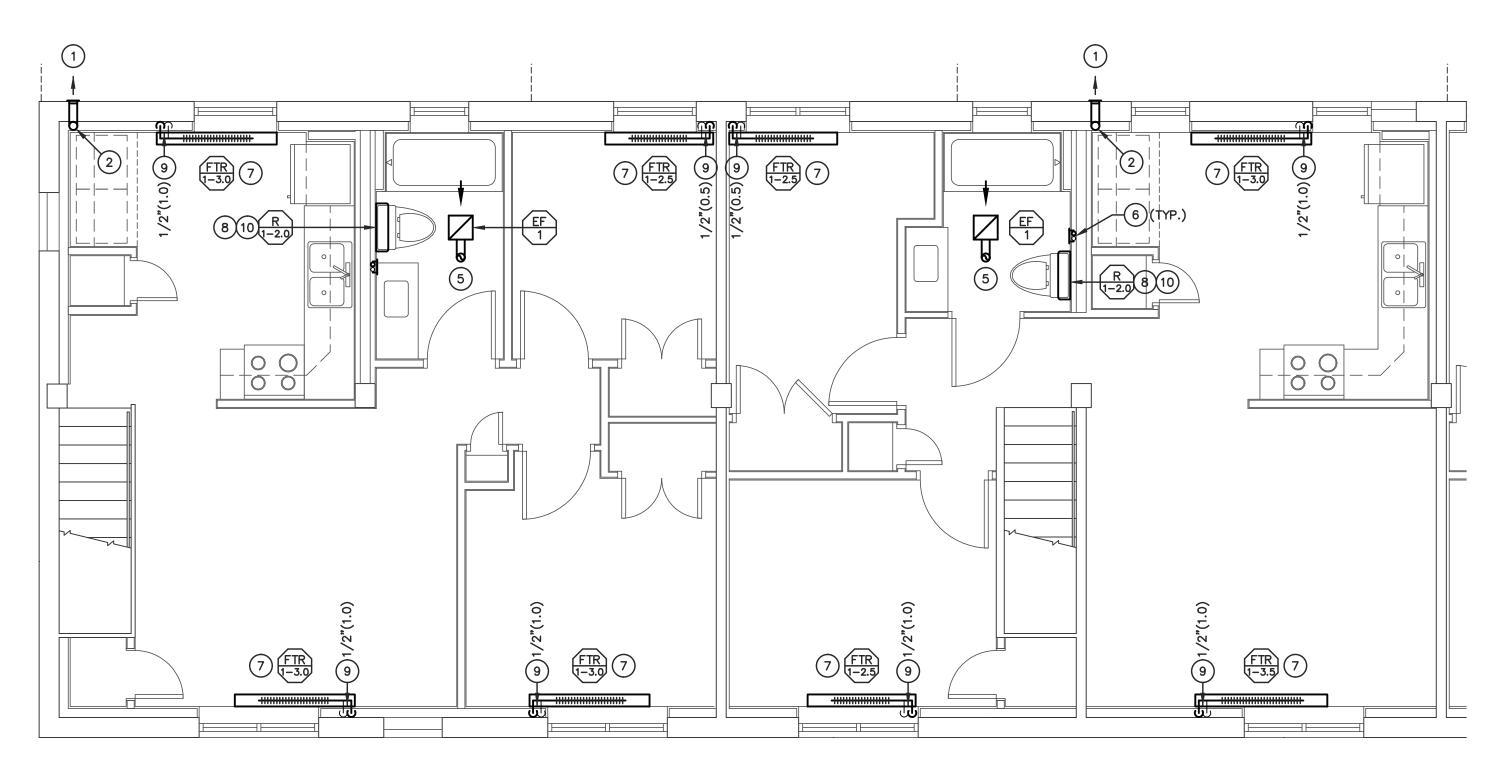
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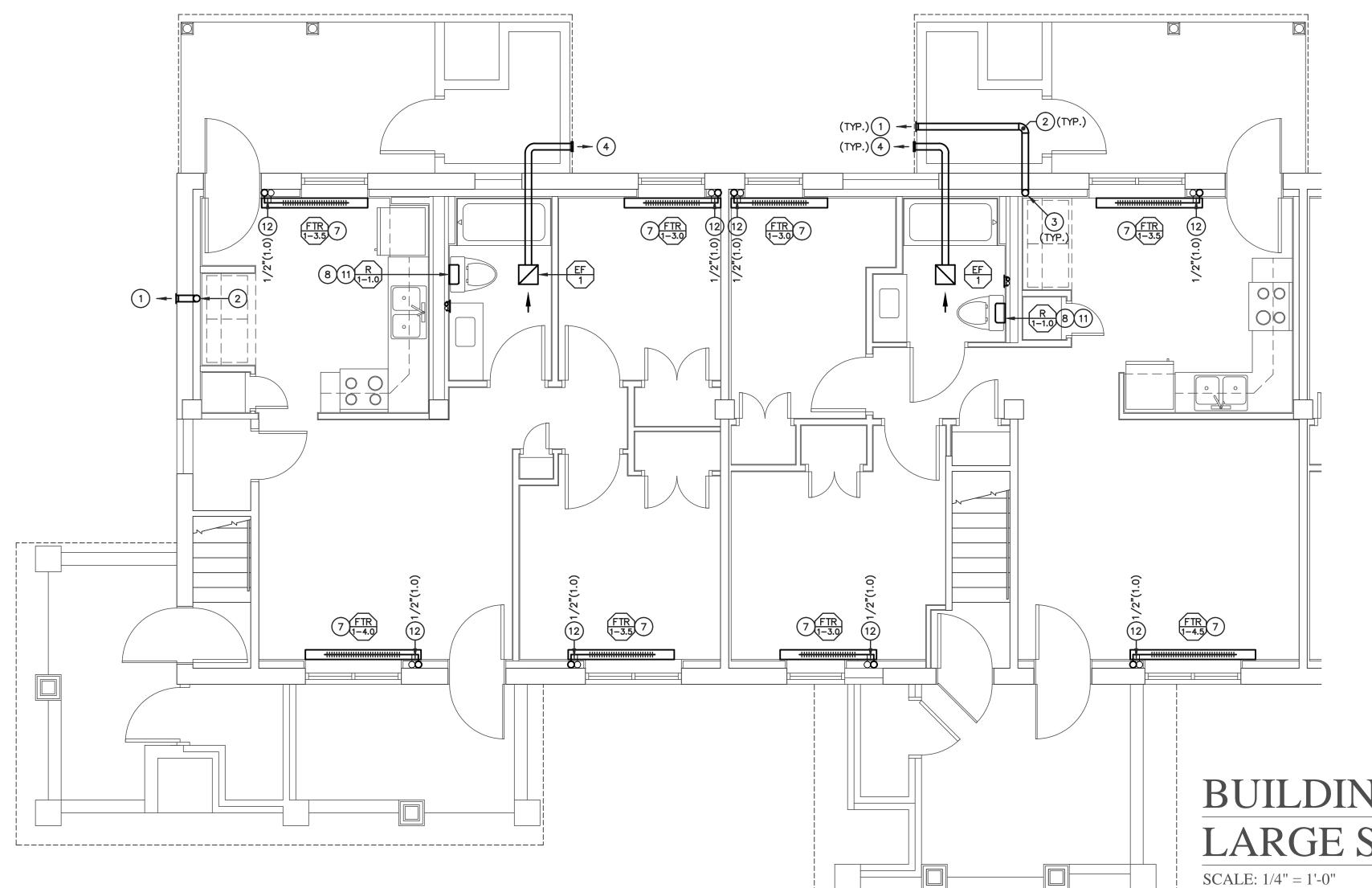
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D DRAWINGS



BUILDING 'K' SECOND FLOOR -LARGE SCALE PLAN - HVAC

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

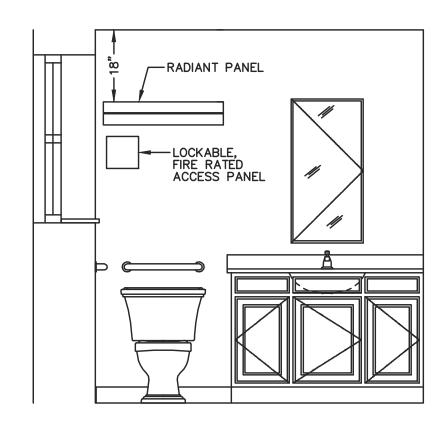


PLAN NOTES

- (1) PROVIDE VENT HOOD W/ BACK DRAFT DAMPER FOR DRYER VENT TERMINATION. RUN 4" ALUMINUM SNAP LOCK PIPE FROM DRYER WALL BOX UP IN THE WALL CAVITY AND THROUGH THE EXTERIOR WALL. TERMINATE AT DRYER VENT HOOD. CONTRACTOR SHALL CUT WALL OPENING AND SEAL PENETRATION.
- 3) PROVIDE DRYER WALL BOX BY IN-O-VATE TECHNOLOGY MODEL 350 OR EQUAL PROVIDE WALL CAP W/ BACK DRAFT DAMPER FOR EXHAUST AIR. INSTALL AS HIGH ABOVE WINDOW AS POSSIBLE.
- RISE 4" EXHAUST DUCT UP AND RUN TO SLOPED ROOF CAP. CONTRACTOR REQUIRED TO CUT NEW OPENINGS IN EXISTING ATTIC SLAB AND ROOF SYSTEM. PROVIDE FLASHING AND SEALANT AS REQUIRED TO MAKE THE BUILDING WATERTIGHT. PLACE EXISTING INSULATION IN ATTIC TIGHT TO DUCT AFTER INSTALLATION.
- (6) PROVIDE 10X10, FIRE RATED, TAMPERPROOF AND LOCKABLE ACCESS DOOR.
- 7 CONNECT HWR&S PIPING TO FIN TUBE RADIATION. PROVIDE INSULATION TO POINT OF CONNECTION ON RADIANT PANEL. SEE RADIANT PANEL DETAIL ON DRAWING H107.
- 8 CONNECT HWR&S PIPING TO RADIANT PANEL. PROVIDE INSULATION TO POINT OF CONNECTION ON RADIANT PANEL. SEE RADIANT PANEL DETAIL ON DRAWING H107.
- 9 1/2" HWR AND HWS PIPE UP FROM FLOOR BELOW TO FIN TUBE RADIATOR. SEE FIN TUBE RADIATION PIPING DETAIL DWG. H107. INSTALL PIPE ON INTERIOR SIDE OF WALL INSULATION.
- RUN 1/2" HWR AND HWS FROM 1/2" HWR AND WHS PIPE UP FROM FLOOR BELOW TO RADIATOR. SEE RADIANT PANEL DETAIL ON DRAWING H107. BALANCE FLOW TO RADIATOR TO 0.5 GPM.
- RUN 1/2" HWR AND HWS FROM 1/2" HWR AND HWS PIPE UP FROM FLOOR BELOW TO RADIATOR. SEE RADIANT PANEL DETAIL ON DRAWING H107. BALANCE FLOW TO 1.0 GPM. CONTINUE 1/2" HWR AND HWS UP TO FLOOR ABOVE.
- 3/4" HWR AND HWS PIPE UP FROM FLOOR BELOW AND 1/2" HWR AND HWS PIPE UP TO FLOOR ABOVE. INSTALL PIPE ON INTERIOR SIDE OF WALL INSULATION IF THE PIPE IS LOCATED ON THE EXTERIOR WALL. CONNECT 1/2" HWR AND HWS PIPE TO 3/4" RISER AND RUN TO FIN TUBE RADIATOR.

GENERAL NOTE

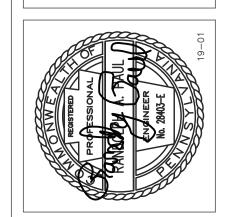
- 1. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS.
- 2. PIPE SIZE (TYP.) \longrightarrow 1/2"(1.0) \longrightarrow FLOW GPM (TYP.) 3. REFER TO DRAWING H107 FOR EQUIPMENT DETAILS AND SHUT-OFF VALVES.



TYPICAL RADIANT PANEL LAYOUTS. SIMILAR FOR ALL BATHROOMS. SEE FLOOR PLANS FOR RADIATOR LOCATIONS.

RADIATOR ABOVE TOILET
SCALE: 1/2"=1'-0"



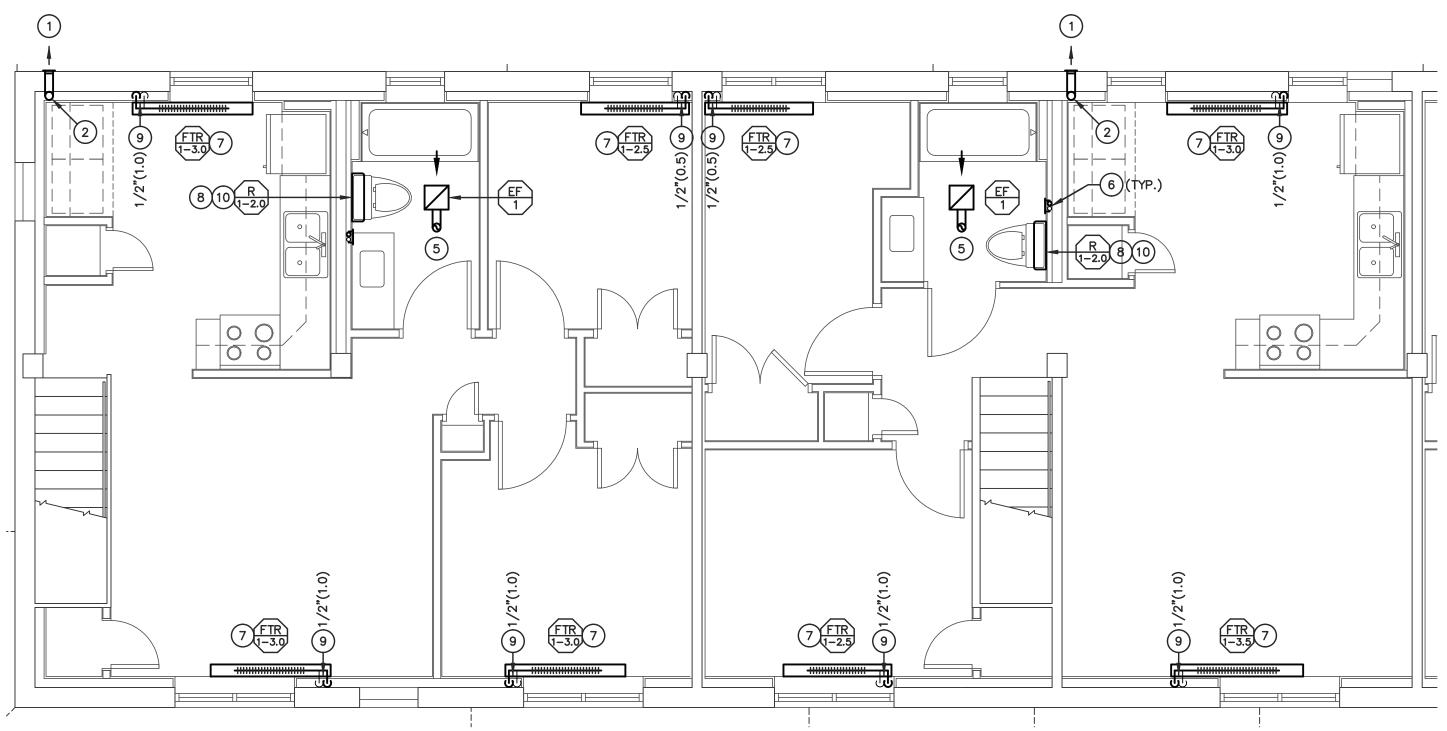




03/29/19 SCALE: AS NOTED

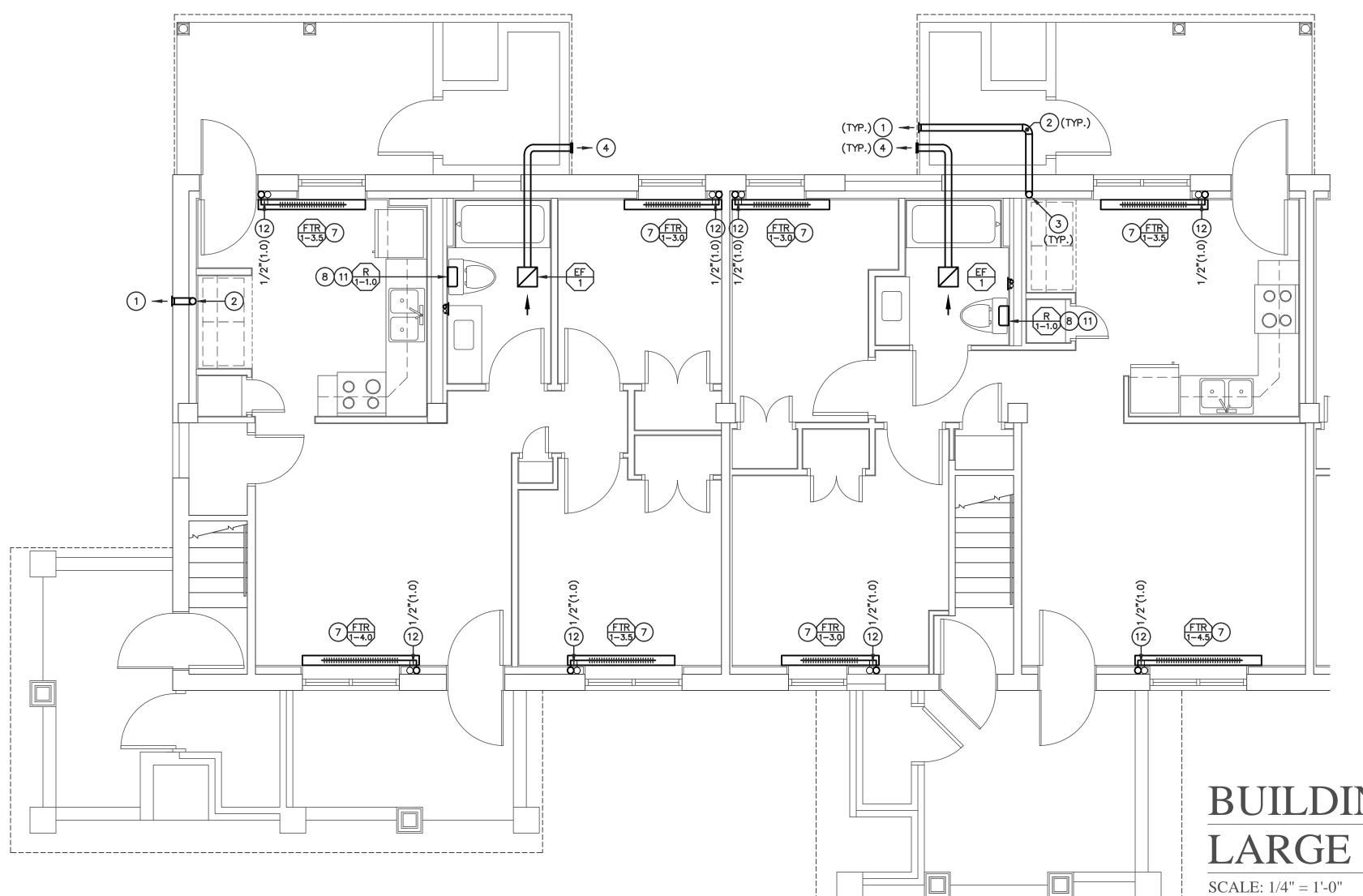
JOB NO.: 337-W11

H104



BUILDING 'L' SECOND FLOOR -LARGE SCALE PLAN - HVAC

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



PLAN NOTES

- 1 PROVIDE VENT HOOD W/ BACK DRAFT DAMPER FOR DRYER VENT TERMINATION.
 2 RUN 4" ALUMINUM SNAP LOCK PIPE FROM DRYER WALL BOX UP IN THE WALL CAVITY AND THROUGH THE EXTERIOR WALL. TERMINATE AT DRYER VENT HOOD. CONTRACTOR SHALL CUT WALL OPENING AND SEAL PENETRATION.
- 3 PROVIDE DRYER WALL BOX BY IN-O-VATE TECHNOLOGY MODEL 350 OR EQUAL
- PROVIDE WALL CAP W/ BACK DRAFT DAMPER FOR EXHAUST AIR. INSTALL AS HIGH ABOVE WINDOW AS POSSIBLE.
- RISE 4" EXHAUST DUCT UP AND RUN TO SLOPED ROOF CAP. CONTRACTOR REQUIRED TO CUT NEW OPENINGS IN EXISTING ATTIC SLAB AND ROOF SYSTEM. PROVIDE FLASHING AND SEALANT AS REQUIRED TO MAKE THE BUILDING WATERTIGHT. PLACE EXISTING INSULATION IN ATTIC TIGHT TO DUCT AFTER INSTALLATION.
- 7 CONNECT HWR&S PIPING TO FIN TUBE RADIATION. PROVIDE INSULATION TO POINT OF CONNECTION ON RADIANT PANEL. SEE RADIANT PANEL DETAIL ON DRAWING H107.

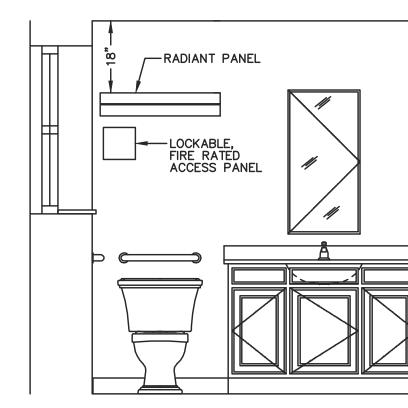
(6) PROVIDE 10X10, FIRE RATED, TAMPEROPROOF AND LOCKABLE ACCESS DOOR.

- 8 CONNECT HWR&S PIPING TO RADIANT PANEL. PROVIDE INSULATION TO POINT OF CONNECTION ON RADIANT PANEL. SEE RADIANT PANEL DETAIL ON DRAWING H107.
- 9 1/2" HWR AND HWS PIPE UP FROM FLOOR BELOW TO FIN TUBE RADIATOR.
 SEE FIN TUBE RADIATION PIPING DETAIL DWG. H107. INSTALL PIPE ON INTERIOR
 SIDE OF WALL INSULATION.

 (10) RUN 1/2" HWR AND HWS FROM 1/2" HWR AND WHS PIPE UP FROM FLOOR
- RUN 1/2" HWR AND HWS FROM 1/2" HWR AND WHS PIPE UP FROM FLOOR BELOW TO RADIATOR. SEE RADIANT PANEL DETAIL ON DRAWING H107. BALANCE FLOW TO RADIATOR TO 0.5 GPM.
- RUN 1/2" HWR AND HWS FROM 1/2" HWR AND HWS PIPE UP FROM FLOOR BELOW TO RADIATOR. SEE RADIANT PANEL DETAIL ON DRAWING H107. BALANCE FLOW TO 1.0 GPM. CONTINUE 1/2" HWR AND HWS UP TO FLOOR ABOVE.
- 3/4" HWR AND HWS PIPE UP FROM FLOOR BELOW AND 1/2" HWR AND HWS PIPE UP TO FLOOR ABOVE. INSTALL PIPE ON INTERIOR SIDE OF WALL INSULATION IF THE PIPE IS LOCATED ON THE EXTERIOR WALL. CONNECT 1/2" HWR AND HWS PIPE TO 3/4" RISER AND RUN TO FIN TUBE RADIATOR.

GENERAL NOTE

- 1. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS.
- PIPE SIZE (TYP.) → 1/2"(1.0) → FLOW GPM (TYP.)
 REFER TO DRAWING H107 FOR EQUIPMENT DETAILS AND SHUT-OFF VALVES.



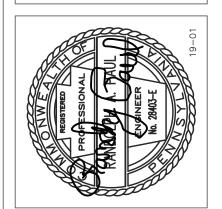
NOTI

 TYPICAL RADIANT PANEL LAYOUTS. SIMILAR FOR ALL BATHROOMS. SEE FLOOR PLANS FOR RADIATOR LOCATIONS.

RADIATOR ABOVE TOILET
SCALE: 1/2"=1'-0"









M HOWARD DAY HOMES
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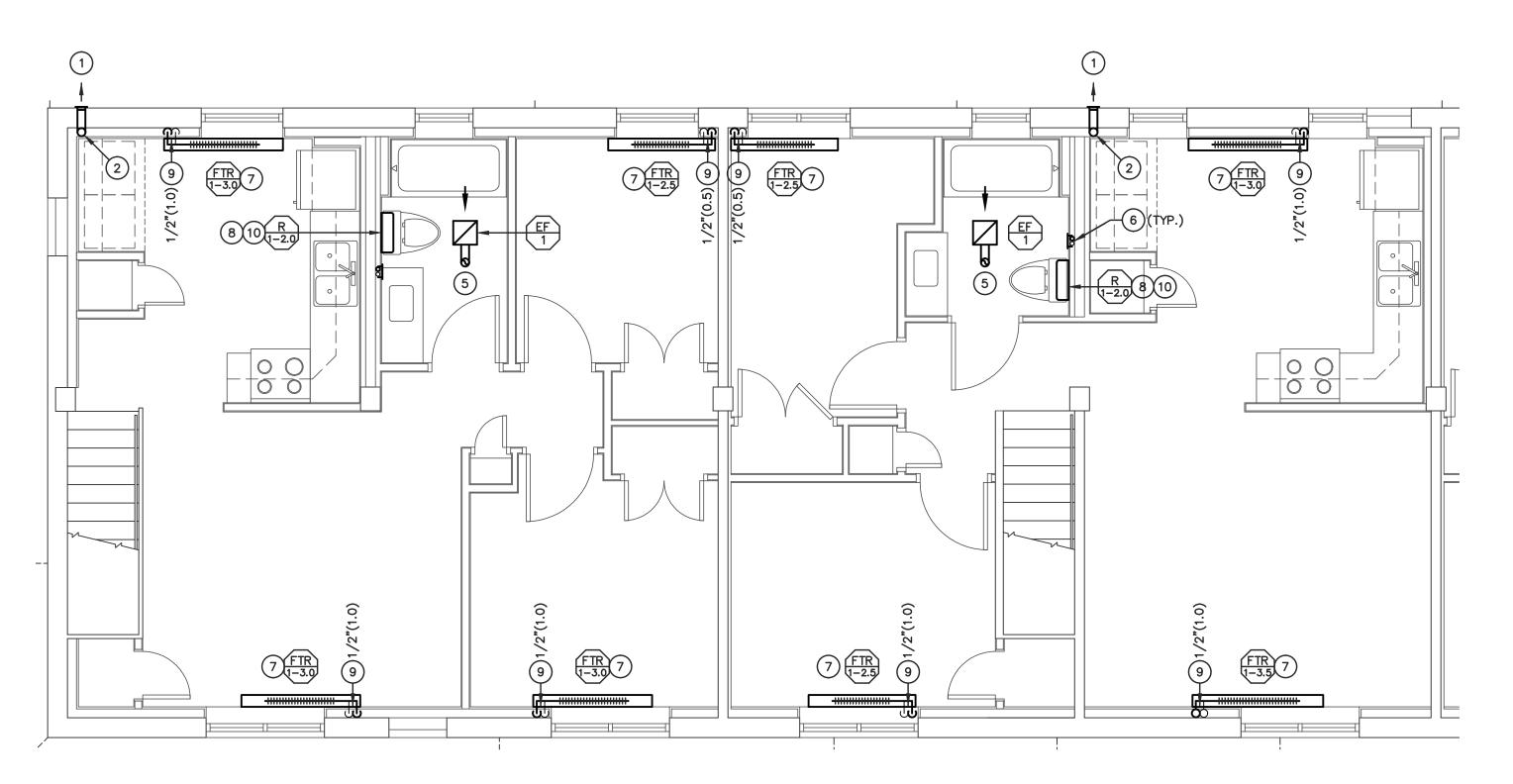
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SCALE: AS NOTED

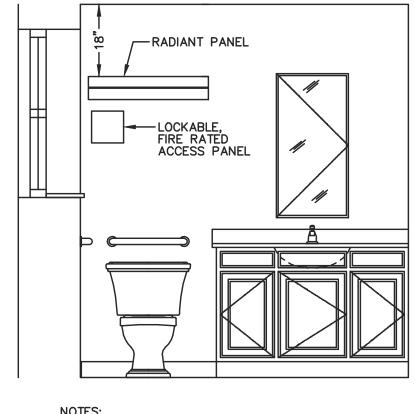
H105

JOB NO. : 337-W11

BUILDING 'L' FIRST FLOOR -LARGE SCALE PLAN - HVAC



BUILDING 'M' SECOND FLOOR -LARGE SCALE PLAN - HVAC SCALE: 1/4'' = 1'-0''



1. TYPICAL RADIANT PANEL LAYOUTS. SIMILAR FOR ALL BATHROOMS. SEE FLOOR PLANS FOR

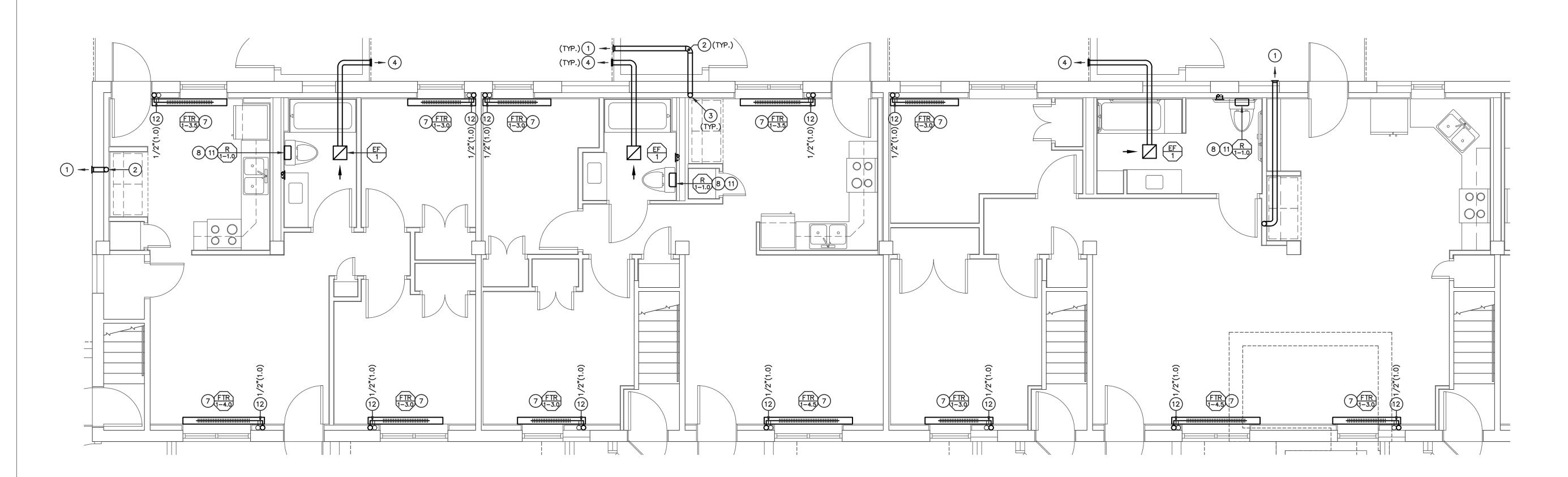
RADIATOR ABOVE TOILET

PLAN NOTES

- 1) PROVIDE VENT HOOD W/ BACK DRAFT DAMPER FOR DRYER VENT TERMINATION. RUN 4" ALUMINUM SNAP LOCK PIPE FROM DRYER WALL BOX UP IN THE WALL CAVITY AND THROUGH THE EXTERIOR WALL. TERMINATE AT DRYER VENT HOOD. CONTRACTOR SHALL CUT WALL OPENING AND SEAL PENETRATION.
- 3) PROVIDE DRYER WALL BOX BY IN-O-VATE TECHNOLOGY MODEL 350 OR EQUAL PROVIDE WALL CAP W/ BACK DRAFT DAMPER FOR EXHAUST AIR. INSTALL AS HIGH ABOVE WINDOW AS POSSIBLE.
- RISE 4" EXHAUST DUCT UP AND RUN TO SLOPED ROOF CAP. CONTRACTOR REQUIRED TO CUT NEW OPENINGS IN EXISTING ATTIC SLAB AND ROOF SYSTEM. PROVIDE FLASHING AND SEALANT AS REQUIRED TO MAKE THE BUILDING WATERTIGHT. PLACE EXISTING INSULATION IN ATTIC TIGHT TO DUCT AFTER INSTALLATION.
- (6) PROVIDE 10X10, FIRE RATED, TAMPEROPROOF AND LOCKABLE ACCESS DOOR.
- 7 CONNECT HWR&S PIPING TO FIN TUBE RADIATION. PROVIDE INSULATION TO POINT OF CONNECTION ON RADIANT PANEL. SEE RADIANT PANEL DETAIL ON DRAWING H107.
- 8 CONNECT HWR&S PIPING TO RADIANT PANEL. PROVIDE INSULATION TO POINT OF CONNECTION ON RADIANT PANEL. SEE RADIANT PANEL DETAIL ON DRAWING H107.
- 9 1/2" HWR AND HWS PIPE UP FROM FLOOR BELOW TO FIN TUBE RADIATOR. SEE FIN TUBE RADIATION PIPING DETAIL DWG. H107. INSTALL PIPE ON INTERIOR SIDE OF WALL INSULATION.
- RUN 1/2" HWR AND HWS FROM 1/2" HWR AND WHS PIPE UP FROM FLOOR BELOW TO RADIATOR. SEE RADIANT PANEL DETAIL ON DRAWING H107. BALANCE FLOW TO RADIATOR TO 0.5 GPM.
- RUN 1/2" HWR AND HWS FROM 1/2" HWR AND HWS PIPE UP FROM FLOOR BELOW TO RADIATOR. SEE RADIANT PANEL DETAIL ON DRAWING H107. BALANCE FLOW TO 1.0 GPM. CONTINUE 1/2" HWR AND HWS UP TO FLOOR ABOVE.
- 3/4" HWR AND HWS PIPE UP FROM FLOOR BELOW AND 1/2" HWR AND HWS PIPE UP TO FLOOR ABOVE. INSTALL PIPE ON INTERIOR SIDE OF WALL INSULATION IF THE PIPE IS LOCATED ON THE EXTERIOR WALL. CONNECT 1/2" HWR AND HWS PIPE TO 3/4" RISER AND RUN TO FIN TUBE RADIATOR.

GENERAL NOTE

- 1. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS.
- 2. PIPE SIZE (TYP.) → 1/2"(1.0) ← FLOW GPM (TYP.)
 3. REFER TO DRAWING H107 FOR EQUIPMENT DETAILS AND SHUT-OFF VALVES.

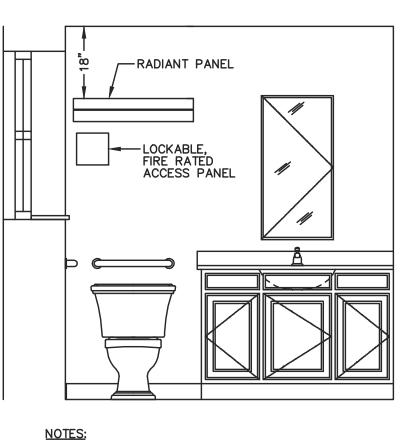


BUILDING 'M' FIRST FLOOR - LARGE SCALE PLAN - HVAC

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

03/29/19 JOB NO.: 337-W11

H106



| HX | | HEAT EXCHANGER SCHEDULE | | | | | | | | | | | | |
|--------|--------|-------------------------|-------------------------------|-----------------------------|---------------|-------------|-------------|------------------------|-----------------|---------|--|--|--|--|
| | | | | SHELL SIDE (STEAM) | | TUBE SIDI | E (HOT W | ATER) | UNIT | | | | | |
| SYMBOL | MFG. | MODEL | SERVICE | AVAILABLE STEAM PRESSURE | FLOW (GPM) | EWT (°F) | LWT (°F) | PRESS. DROP (FT HD) | WEIGHT (LBS) | REMARKS | | | | |
| HX-5 | THRUSH | S6-24-2A | HOT WATER HEATING - BLDG. K&L | 2 PSIG | 46.0 | 135 | 140 | 10 | 250 | 123 | | | | |
| HX-6 | THRUSH | S6-24-2A | HOT WATER HEATING - BLDG. M | 2 PSIG | 46.0 | 135 | 140 | 10 | 250 | 123 | | | | |

- PROVIDE HEAT EXCHANGER WITH STEEL STAND PER MANUFACTURER SPECIFICATIONS. FIELD MEASURE AND COORDINATE STAND HEIGHT FOR TUBING PULL, AND TO MAINTAIN ELEVATION OF CONDENSATE RETURN PRIOR TO FABRICATING.
- (2) SEE FLOW DIAGRAM ON THIS DRAWING FOR PIPE CONFIGURATION WITH VALVE ASSEMBLY AND PUMPS.
- (3) MOUNT HEAT EXCHANGER SUPPORT ON CONCRETE BASE. ANCHOR SUPPORT TO CONCRETE BASE.

| | RAD | DIATION | WAT | ER FLOV | N BAL | .ANCII | NG SCH | EDULE | | | |
|------------------------|----------------|----------------|-------------|-----------------------------|------------------------|----------------|----------------|-------------|-----------------------------|--|--|
| | | R-1 | | | FTR-1 | | | | | | |
| BTU/ LINEAR FOOT | LENGTH (FT) | SUPPLY BTUH | FLOW GPM | SUPPLY PIPE SIZE (IN) | BTU/ LINEAR FOOT | LENGTH (FT) | SUPPLY BTUH | FLOW GPM | SUPPLY PIPE SIZE (IN) | | |
| 491 | 0.5 | 245.5 | 0.5 | 1/2 | 578 | 0.5 | 289.0 | 0.5 | 1/2 | | |
| 491 | 1.0 | 491.0 | 0.5 | 1/2 | 578 | 1.0 | 587.0 | 0.5 | 1/2 | | |
| 491 | 1.5 | 736.5 | 0.5 | 1/2 | 578 | 1.5 | 867.0 | 0.5 | 1/2 | | |
| 491 | 2.0 | 982.0 | 0.5 | 1/2 | 578 | 2.0 | 1156.0 | 0.5 | 1/2 | | |
| 491 | 2.5 | 1227.5 | 0.5 | 1/2 | 578 | 2.5 | 1445.0 | 0.5 | 1/2 | | |
| 491 | 3.0 | 1473.0 | 0.5 | 1/2 | 578 | 3.0 | 1734.0 | 1.0 | 1/2 | | |
| 491 | 3.5 | 1718.5 | 1.0 | 1/2 | 578 | 3.5 | 2023.0 | 1.0 | 1/2 | | |
| 491 | 4.0 | 1964.0 | 1.0 | 1/2 | 578 | 4.0 | 2312.0 | 1.0 | 1/2 | | |
| 491 | 4.5 | 2209.5 | 1.0 | 1/2 | 578 | 4.5 | 2601.0 | 1.0 | 1/2 | | |
| 491 | 5.0 | 2455.0 | 1.0 | 1/2 | 578 | 5.0 | 2890.0 | 1.0 | 1/2 | | |
| 491 | 5.5 | 2700.5 | 1.0 | 1/2 | 578 | 5.5 | 3179.0 | 1.5 | 3/4 | | |
| 491 | 6.0 | 2946.0 | 1.0 | 1/2 | 578 | 6.0 | 3468.0 | 1.5 | 3/4 | | |
| 491 | 6.5 | 3191.5 | 1.5 | 3/4 | 578 | 6.5 | 3757.0 | 1.5 | 3/4 | | |
| 491 | 7.0 | 3437.0 | 1.5 | 3/4 | 578 | 7.0 | 4046.0 | 1.5 | 3/4 | | |
| 491 | 7.5 | 3682.5 | 1.5 | 3/4 | 578 | 7.5 | 4335.0 | 2.0 | 3/4 | | |
| 491 | 8.0 | 3928.0 | 1.5 | 3/4 | 578 | 8.0 | 4624.0 | 2.0 | 3/4 | | |

| RADIATOR SCHEDULE | | | | | | | | | | |
|-------------------|--------|------------------------------|-------|--------|----------|-------|-------------|---------------------------|---------|--|
| CVAIDOL | MEO | ELEMENT DESIGNATION/ | ENCLO | DSURE | CAPACITY | FLOW | AWT | PRESS. DROP | DEMARKS | |
| SYMBOL | MFG. | MODEL | ROWS | HEIGHT | (BTU/FT) | (GPM) | AWT (°F) | PRESS. DROP (FT HD/FT) | REMARKS | |
| FTR-1 | VULCAN | 3/4"C-3 1/4"X3 3/4"-40/.020" | 2 18" | | 578 | (4) | 137.5 | _ | 124 | |
| R-1 | THRUSH | RF-4 | - | _ | 491 | (4) | 137.5 | 5 | 34 | |

REMARKS

- 1) PROVIDE FIN TUBE RADIATION ENCLOSURE WITH "L" SHAPED CHANNEL FOR ENCLOSURE TIGHT TO FLOOR.
- 2 MOUNT FIN TUBE RADIATION A MINIMUM OF 4" ABOVE FINISHED FLOOR OR ABOVE MOLDING. SEE ARCHITECTURAL DRAWINGS FOR
- 3 PROVIDE FIRE RATED ACCESS DOOR BELOW RADIATOR TO ACCESS VALVES AND MANUAL AIR VENTS. ACCESS DOOR SHALL BE LOCKABLE AND TAMPER PROOF.
- (4) SEE DRAWING AND RADIATION WATER FLOW BALANCING SCHEDULE FOR GPM.

| EQUIPMENT IDENTIFICATION MARK FIR | DENOTE EQUIPMENT PLAN MARK |
|------------------------------------|------------------------------------|
| DENOTES EQUIPMENT PLAN MARK NUMBER | DENOTES ACTIVE LENGTH OF RADIATION |

DENOTES
PIPE SIZE → 1/2"(0.5) → DENOTES

| EF | FAN SCHEDULE | | | | | | | | | | |
|--------|--------------|--------|------------------|-----|----------------|------|-------|---------|---------|--|--|
| SYMBOL | MFG. | MODEL | SERVICE | CFM | ESP (IN WG) | RPM | WATTS | VOLTAGE | REMARKS | | |
| EF-1 | NUTONE | HD80NT | BATHROOM EXHAUST | 80 | .125 | 1380 | 50 | 120V | 12 | | |

REMARKS

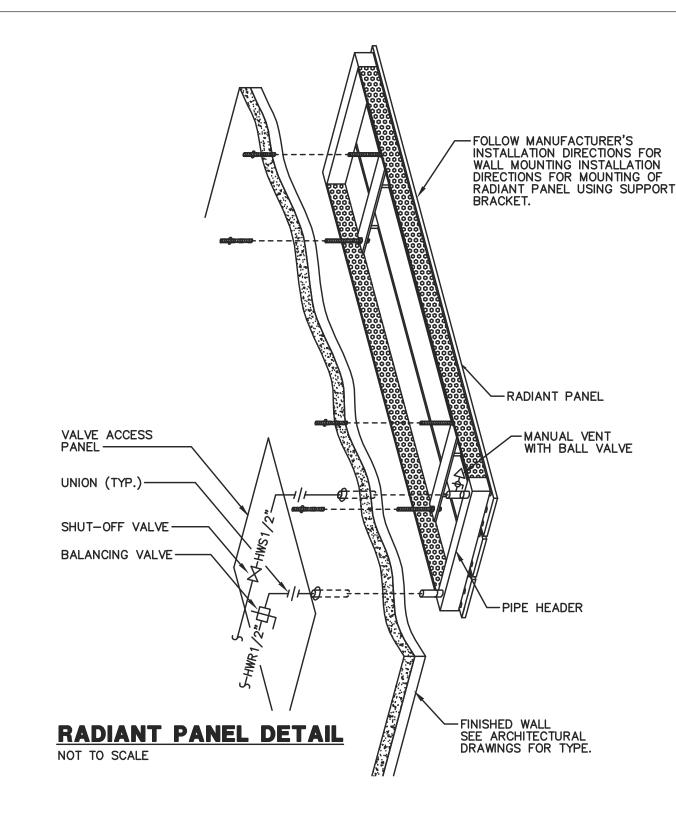
- 1) PROVIDE 4" EXHAUST FAN DUCTING KIT AND WALL CAP OR ROOF CAP. SEE FLOOR PLAN FOR REQUIREMENTS.
- (2) INTERLOCK THE EXHAUST FAN WITH THE LIGHT SWITCH.

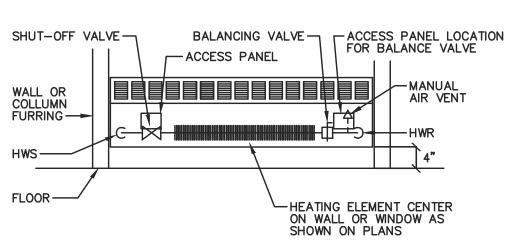
| P | | PUMP SCHEDULE | | | | | | | | | | | | | |
|-----------|--------|---------------|-----------|------|---------------------------|----|----------|---------|--|--|--|--|--|--|--|
| SYMBOL | MFG. | MODEL | SERVICE | GPM | PRESSURE DROP (FT H20) | HP | VOLTAGE | REMARKS | | | | | | | |
| P-9 & 10 | THRUSH | 2 GTV-1 | BLDG. K&L | 48.0 | 30 FT ± | 1 | 120V-1PH | 1 | | | | | | | |
| P-11 & 12 | THRUSH | 2 GTV-1 | BLDG. M | 46.0 | 30 FT ± | 1 | 120V-1PH | 1 | | | | | | | |

<u>REMARKS</u>

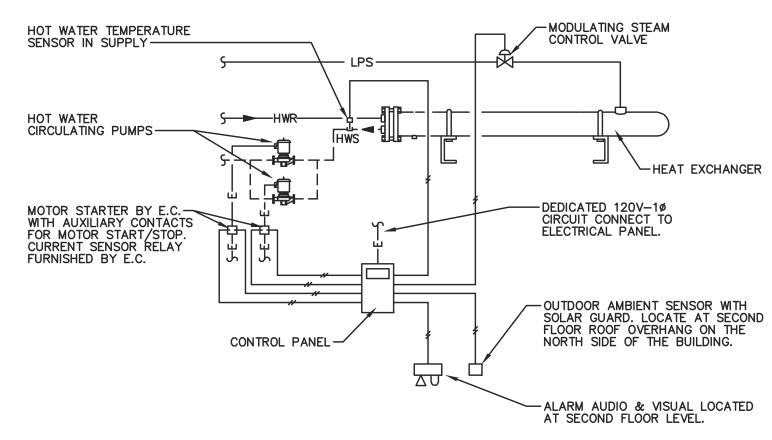
1) ONE PUMP OPERATES AND ONE PUMP IS IN STANDBY.

| ET | | EXP | ANSION TANK | SCHE | DULE | | |
|--------|------|-------|-----------------|-------------------|-----------------------|----------------|---------------|
| SYMBOL | MFG. | MODEL | SERVICE | SIZE (DIA X L) | CAPACITY (GALLONS) | FILL (PSIG) | MAX (PSIG) |
| ET-1 | TACO | CX30 | HYDRONIC SYSTEM | 14.5X22.5 | 8.0 | 12.0 | 80.0 |

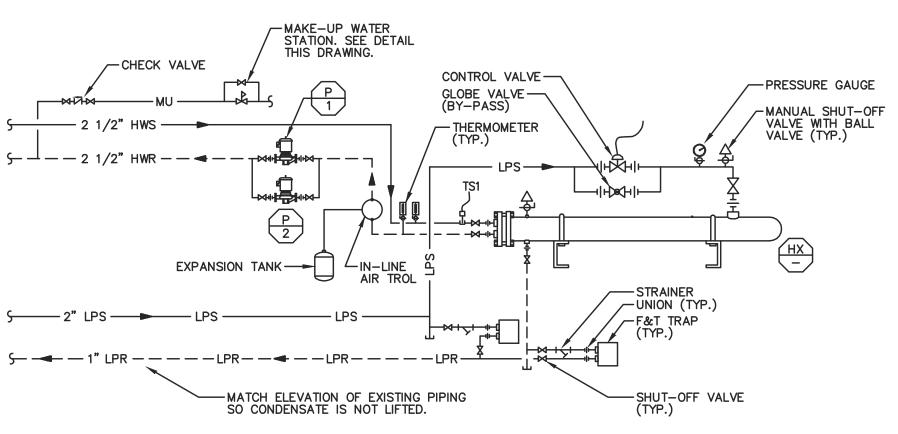




FIN TUBE RADIATION PIPING DETAIL



HOT WATER CONTROL DIAGRAM



HOT WATER AND STEAM RISER DIAGRAM NOT TO SCALE

MECHANICAL DEMOLITION NOTES

BUILDING "K"

- 1. STEAM RADIATORS CONTRACTOR SHALL REMOVE ALL STEAM RADIATORS AND THEIR APPURTENANCES. CONTRACTOR IS RESPONSIBLE TO CUT AND PATCH ALL WALLS, FLOORS, AND CEILINGS AS NEEDED TO COMPLETE THIS WORK.
- 2. STEAM & CONDENSATE PIPING CONTRACTOR SHALL REMOVE ALL STEAM AND CONDENSATE PIPING FROM RADIATORS BACK TO THE PIPE VAULT ENTERING BUILDING. CONTRACTOR TO DISCONNECT PIPING AND CAP FOR FUTURE CONNECTION - SEE NEW WORK PLANS FOR POINT OF CONNECTION FOR PIPING. CONTRACTOR IS RESPONSIBLE TO CUT AND PATCH ALL WALLS, FLOORS, AND CEILINGS AS NEEDED TO COMPLETE THIS WORK.

MECHANICAL DEMOLITION NOTES

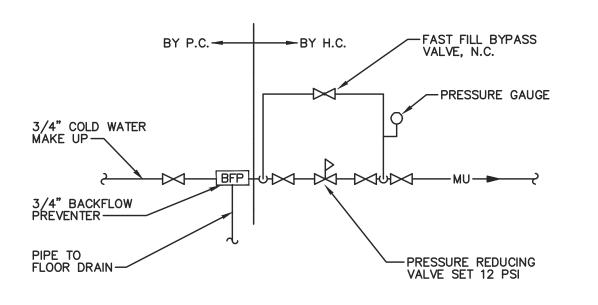
BUILDING "L"

- 1. STEAM RADIATORS CONTRACTOR SHALL REMOVE ALL STEAM RADIATORS AND THEIR APPURTENANCES. CONTRACTOR IS RESPONSIBLE TO CUT AND PATCH ALL WALLS, FLOORS, AND CEILINGS AS NEEDED TO COMPLETE THIS WORK.
- 2. STEAM & CONDENSATE PIPING CONTRACTOR SHALL REMOVE ALL STEAM AND CONDENSATE PIPING FROM RADIATORS BACK TO THE PIPE VAULT ENTERING BUILDING. CONTRACTOR TO DISCONNECT PIPING AND CAP FOR FUTURE CONNECTION - SEE NEW WORK PLANS FOR POINT OF CONNECTION FOR PIPING. CONTRACTOR IS RESPONSIBLE TO CUT AND PATCH ALL WALLS, FLOORS, AND CEILINGS AS NEEDED TO COMPLETE THIS WORK.

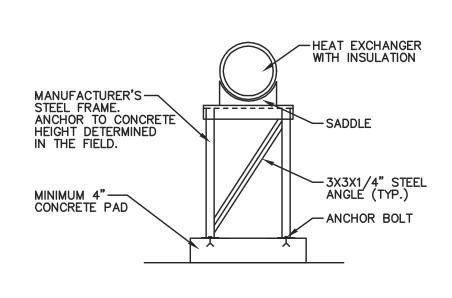
MECHANICAL DEMOLITION NOTES

BUILDING "M"

- 1. STEAM RADIATORS CONTRACTOR SHALL REMOVE ALL STEAM RADIATORS AND THEIR APPURTENANCES. CONTRACTOR IS RESPONSIBLE TO CUT AND PATCH ALL WALLS, FLOORS, AND CEILINGS AS NEEDED TO COMPLETE THIS WORK.
- 2. STEAM & CONDENSATE PIPING CONTRACTOR SHALL REMOVE ALL STEAM AND CONDENSATE PIPING FROM RADIATORS BACK TO THE PIPE VAULT ENTERING BUILDING. CONTRACTOR TO DISCONNECT PIPING AND CAP FOR FUTURE CONNECTION - SEE NEW WORK PLANS FOR POINT OF CONNECTION FOR PIPING. CONTRACTOR IS RESPONSIBLE TO CUT AND PATCH ALL WALLS, FLOORS, AND CEILINGS AS NEEDED TO COMPLETE THIS WORK.



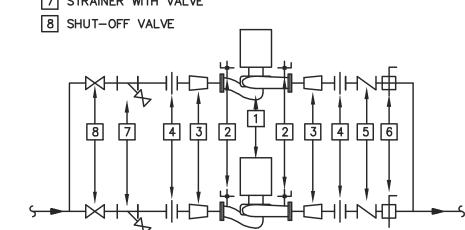
SYSTEM FILL/MAKE-UP WATER **PIPING REGULATING STATION DETAIL**



HEAT EXCHANGER SUPPORT DETAIL

NOT TO SCALE

- 1 IN-LINE PUMP SUPPORTED BY PIPE 2 PRESSURE SNUBBER & GAUGE COCK
- 3 INCREASER OR REDUCER AS REQUIRED 4 UNION OR FLANGES AT PUMP
- 5 CHECK VALVE
- 6 COMBINATION BALANCE & SHUT-OFF VALVE
- 7 STRAINER WITH VALVE



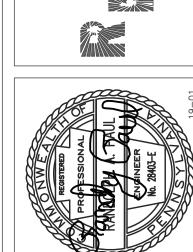
IN-LINE PUMP DETAIL NOT TO SCALE

HVAC SPECIFICATIONS

- 1. THIS CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO PROVIDE A COMPLETE AND WORKING MECHANICAL SYSTEM WHETHER SPECIFIED OR IMPLIED.
- 2. ALL HVAC WORK SHALL COMPLY WITH THE LATEST EDITION OF THE APPLICABLE STATE AND LOCAL CODES.
- 3. PROVIDE ALL REQUIRED NOTICES, OBTAIN AND PAY FOR ALL PERMITS, AND PAY ALL DEPOSITS AND FEES NECESSARY FOR THE INSTALLATION TESTS AND INSPECTION OF ALL WORK PROVIDED, UNDER THIS SPECIFICATION, TESTS SHALL BE CONDUCTED AS REQUIRED BY THE REGULATIONS OF LOCAL AND STATE AUTHORITIES.
- 4. NOTHING CONTAINED IN THESE SPECIFICATIONS OR SHOWN ON THE DRAWINGS SHALL BE CONSTRUED TO BE IN CONFLICT WITH STATE OR LOCAL CODES, ORDINANCES, OR REGULATIONS GOVERNING INSTALLATION FOR THE WORK SPECIFIED HEREIN. ALL REGULATIONS OF PUBLIC BODIES HAVING AUTHORITY OVER THE CONDUCT OF THE WORK ARE HEREBY INCORPORATED AND MADE A PART OF THESE SPECIFICATIONS. SHOULD ANY CHANGE IN THE DRAWINGS AND/OR THE CODES, ORDINANCES, REGULATIONS, OR LAWS MENTIONED ABOVE, THE PROFESSIONAL SHALL BE NOTIFIED.
- 5. FAILURE TO MAKE AN ON-SITE INSPECTION PRIOR TO SUBMITTING A BID WILL NOT RELIEVE THIS CONTRACTOR FROM THE RESPONSIBILITIES OF PROPERLY ESTIMATING THE REQUIREMENTS OR COSTS OF SUCCESSFUL COMPLETION OF THE WORK NOR FROM THE RESPONSIBILITY FOR THE FAITHFUL PERFORMANCE OF THE PROVISIONS OF THIS CONTRACT.
- 6. DO NOT SCALE THE DRAWINGS FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, DIMENSIONS, ETC. AT THE JOB SITE.
- 7. THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND HIS WORK DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVE, OR BY THE ELEMENTS DUE TO NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVE, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR TO THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE AND TO THE PROFESSIONAL'S SATISFACTION.
- 8. UPON COMPLETION OF THE MECHANICAL WORK, THIS CONTRACTOR SHALL REMOVE ALL DIRT, FOREIGN MATERIALS, STAINS, FINGERPRINTS, ETC., FROM MECHANICAL EQUIPMENT, ADJACENT SURFACES, ETC., INSTALLED UNDER THIS PROJECT, AND SHALL LEAVE THE MECHANICAL WORK IN SUCH A CONDITION THAT NO CLEANING BY THE OWNER IS REQUIRED.
- 9. ALL EQUIPMENT, DUCTS, AND PIPING SHALL BE CLEANED BEFORE SYSTEMS ARE OPERATED.
- 10. DURING CONSTRUCTION CAP ALL OPEN ENDS OF DUCTWORK, PIPING, AND EQUIPMENT TO MINIMIZE DEBRIS FROM ENTERING SYSTEMS.
- 11. ALL CUTTING, PATCHING, FINISHING, AND PAINTING FOR THE PROPER INSTALLATION OF THE MECHANICAL EQUIPMENT SHALL BE DONE IN A NEAT WORKMANSHIP MANNER BY THIS CONTRACTOR. ALL CUTTING SHALL BE KEPT TO AN ABSOLUTE MINIMUM CONSISTENT WITH THE REQUIREMENTS OF THE PROJECT. CUTTING, PATCHING, AND FINISHING SHALL BE DONE BY WORKMAN SKILLED IN THIS TYPE OF WORK. ALL PATCHING SHALL BE DONE UTILIZING MATERIALS OF THE SAME QUALITY AND TEXTURE AS THE ADJACENT UNDISTURBED AREAS. ALL FINISHING AND PAINTING SHALL MATCH THE UNDISTURBED ADJACENT AREAS AND TO THE SATISFACTION OF THE
- 12. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT, AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE PROFESSIONAL AND/OR OWNER TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED UNTIL APPROVAL OF THE PROFESSIONAL IS OBTAINED. ANY COST INVOLVED IN OBTAINING SAID APPROVAL SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
- 13. ANY REQUIRED INTERRUPTION OF ANY SERVICES SHALL BE DONE WITH THE APPROVAL OF AND AT THE CONVENIENCE OF THE OWNER.
- 14. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, REPAIR, REPLACE, AND MAINTAIN IN SERVICE ANY UTILITIES, FACILITIES OR SERVICES (UNDERGROUND, ABOVE GROUND, INTERIOR OR EXTERIOR) DAMAGED, BROKEN, OR OTHERWISE RENDERED INOPERATIVE DURING THE COURSE OF CONSTRUCTION BY HIM OR HIS REPRESENTATIVES.
- 15. THIS CONTRACTOR SHALL GUARANTEE THE COMPLETE INSTALLATION AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF TWO (2) YEAR FROM THE DATE OF FINAL ACCEPTANCE. THIS GUARANTEE SHALL BE BINDING REGARDLESS OF THE MANUFACTURER'S GUARANTEE AND THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ALL DEFECTIVE MATERIALS AND PARTS REGARDLESS OF CAUSE (EXCLUDING DEFECTS MALICIOUS DESTRUCTION OR ACTS OF GOD AFTER THE SYSTEM HAS BEEN ACCEPTED BY THE OWNER).
- 16. THIS CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES TO PREVENT INTERFERENCES BETWEEN BEAMS, STRUCTURES, PIPING, DUCTWORK, ETC...
- 17. ALL MECHANICAL EQUIPMENT SHALL BE LOCATED TO MAINTAIN MINIMUM CLEARANCES FOR MAINTENANCE.
- 18. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS.
- EQUIPMENT AND AS RECOMMENDED BY THE MANUFACTURER.
- 20. ALL EXTERIOR WALL OPENINGS SHALL BE SLEEVED, PROPERLY CAULKED AND SEALED WITH A HIGH QUALITY SEALANT TO PREVENT INFILTRATION OF MOISTURE AND OUTSIDE AIR.

19. PROVIDE VIBRATION ISOLATION MOUNTINGS FOR ALL MOTOR OPERATED

- 21. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR WHO SHALL PROVIDE POWER WIRING TO ALL MECHANICAL EQUIPMENT. ELECTRICAL CONTRACTOR SHALL FURNISH LOOSE MOTOR STARTERS AND DISCONNECT SWITCHES FOR INSTALLATION AND WIRING BY ELECTRICAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL PROVIDE ALL CONTROL AND INTERLOCK WIRING AT DESIGNATED ELECTRICAL PANEL.
- 22. ALL DUCTWORK SHALL BE DESIGNED, CONSTRUCTED AND INSTALLED PER SMACNA STANDARDS.
- 23. DUCT SIZES SHOWN ON DRAWINGS ARE CLEAR INSIDE DUCT DIMENSIONS.
- 24. ALL DUCTWORK AND PIPING ABOVE CEILING AND IN AREAS WITHOUT CEILINGS SHALL BE INSTALLED AS HIGH AS POSSIBLE.
- 25. ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN FURRED CHASES OR IN THE CEILING SPACE.



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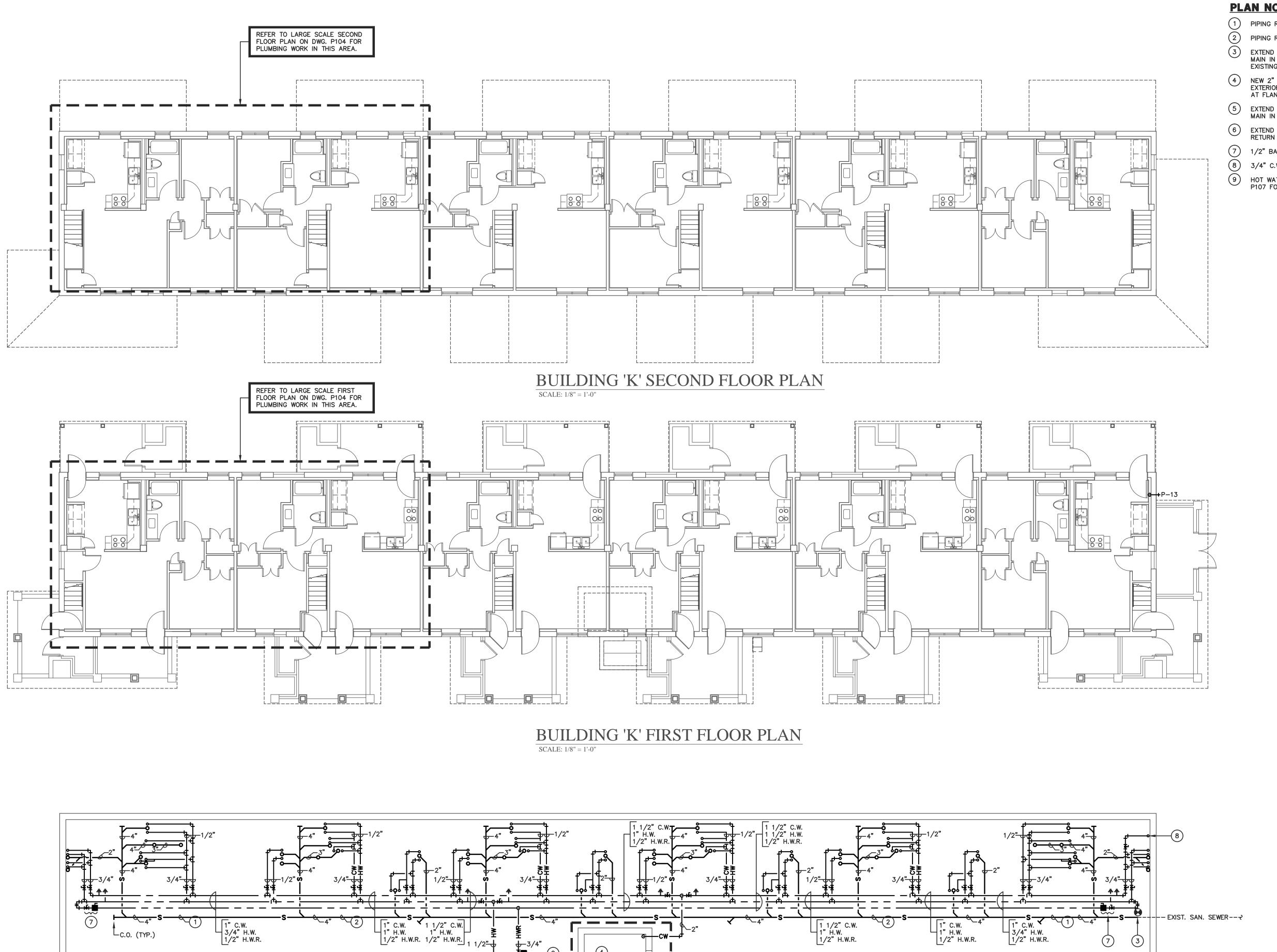
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SCALE: AS NOTED

JOB NO. : 337-W11

SHEET



REFER TO LARGE SCALE FIRST FLOOR PLAN ON DWG. P104 FOR PLUMBING WORK IN THIS AREA.

BUILDING 'K' MECHANICAL ROOM PLAN

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

PLAN NOTES

- 1) PIPING RUN IN CRAWLSPACE.
- PIPING RUN AT 1/8"/FT. SLOPE.
- EXTEND AND CONNECT NEW 4" SAN. SEWER MAIN TO EXISTING SEWER MAIN IN CRAWLSPACE. FIELD VERIFY LOCATION AND INVERT OF EXISTING SEWER PIPING PRIOR TO CONSTRUCTION.
- NEW 2" DOMESTIC C.W. MAIN BY SITE CONTRACTOR TO PENETRATE EXTERIOR WALL AND TERMINATE W/FLANGE. P.C. CONTRACT STARTS AT FLANGE IN MECH. RM.
- 5 EXTEND AND CONNECT NEW 1 1/2" H.W. MAIN TO EXISTING HOT WATER MAIN IN CRAWLSPACE.
- 6 EXTEND AND CONNECT NEW 3/4" H.W.R. MAIN TO EXISTING HOT WATER RETURN MAIN IN CRAWLSPACE.
- 7) 1/2" BALL VALVE AND BALANCING VALVE CALIBRATED TO FLOW 1.0 GPM.
- 8 3/4" C.W. RISE TO WALL HYDRANT.
- HOT WATER RETURN CIRCULATOR PUMP. REFER TO DETAIL ON DWG. P107 FOR ADDITIONAL INFO.

SYMBOLS ——S—— SANITARY SEWER ---- VENTING ---- COLD WATER — — — HOT WATER ———— HOT WATER RETURN —— G—— NATURAL GAS O— RISE

C- DROP --- ELBOW

CHECK VALVE SHOCK ABSORBER CLEANOUT FLOOR DRAIN

GAS SHUT-OFF VALVE GAS REGULATOR ASSEMBLY CONNECT TO EXISTING

ABBREVIATIONS

ABOVE FINISHED FLOOR A.F.F.
BLDG.
C.O.G.
EXIST.
E.T.R.
F.C.O.
G.C.
H. & C.W.
H.C.
INV.
P.C.
R.T.U.
R.W.C.
SAN. BUILDING
CLEAN OUT
CLEAN OUT TO GRADE.
EXISTING
EXISTING TO REMAIN
FLOOR CLEAN OUT
GENERAL CONTRACTOR HOT & COLD WATER HEATING CONTRACTOR PLUMBING CONTRACTOR ROOF TOP UNIT RAIN WATER CONDUCTOR SANITARY SAFE WASTE SOIL & WASTE VENT RISER
VENT-THRU-ROOF WASTE WATER COLUMN

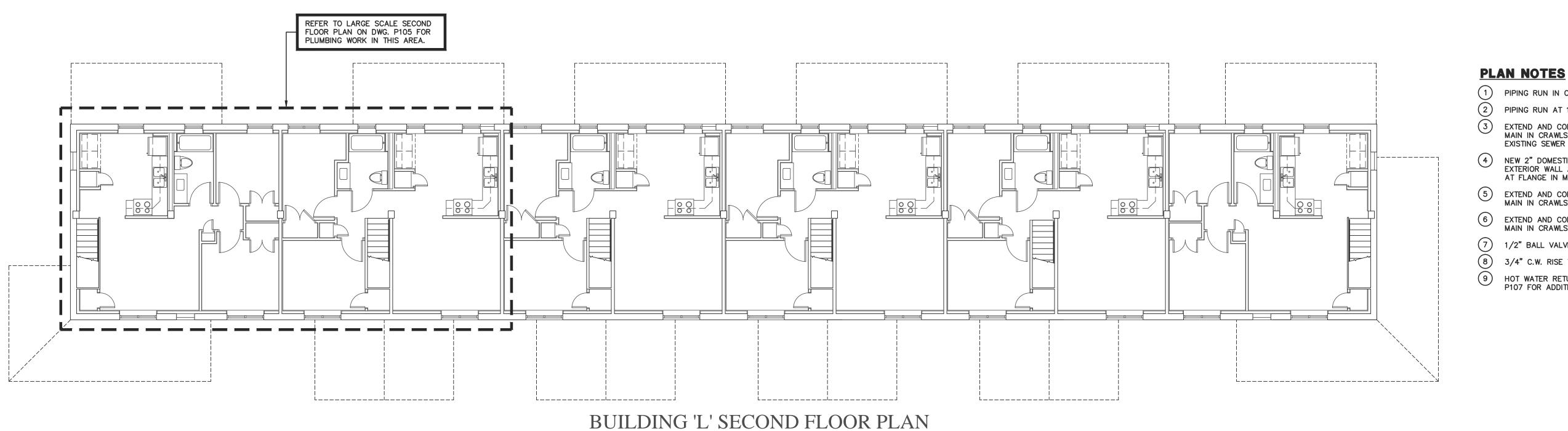
NOTE:
THE ABOVE SYMBOLS AND ABBREVIATIONS ARE
A GENERAL LIST. SOME OF THE ITEMS ABOVE
MAY NOT BE APPLICABLE.

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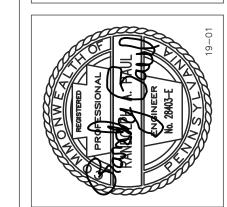


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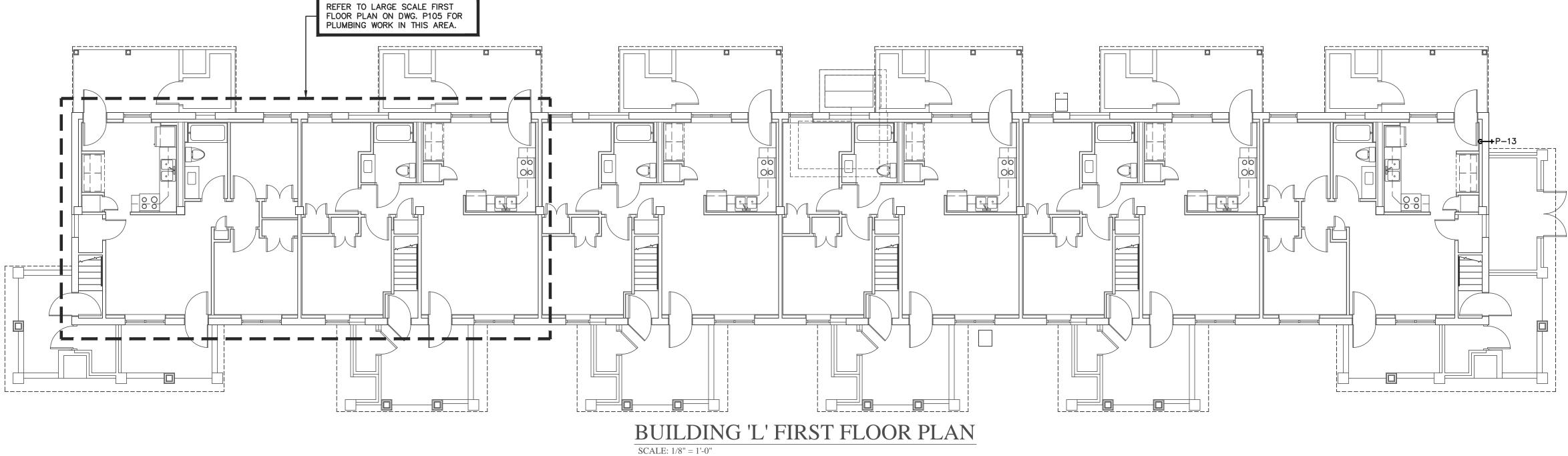
- 1) PIPING RUN IN CRAWLSPACE.
- PIPING RUN AT 1/8"/FT. SLOPE.
- EXTEND AND CONNECT NEW 4" SAN. SEWER MAIN TO EXISTING SEWER MAIN IN CRAWLSPACE. FIELD VERIFY LOCATION AND INVERT OF EXISTING SEWER PIPING PRIOR TO CONSTRUCTION.
- 4 NEW 2" DOMESTIC C.W. MAIN BY SITE CONTRACTOR TO PENETRATE EXTERIOR WALL AND TERMINATE W/FLANGE. P.C. CONTRACT STARTS AT FLANGE IN MECH. RM.
- 5 EXTEND AND CONNECT NEW 1 1/2" H.W. MAIN TO EXISTING HOT WATER MAIN IN CRAWLSPACE.
- 6 EXTEND AND CONNECT NEW 3/4" H.W.R. MAIN TO EXISTING HOT WATER MAIN IN CRAWLSPACE.
- 7) 1/2" BALL VALVE AND BALANCING VALVE CALIBRATED TO FLOW 1.0 GPM.
- 3/4" C.W. RISE TO WALL HYDRANT.
- 9 HOT WATER RETURN CIRCULATOR PUMP. REFER TO DETAIL ON DWG. P107 FOR ADDITIONAL INFO.

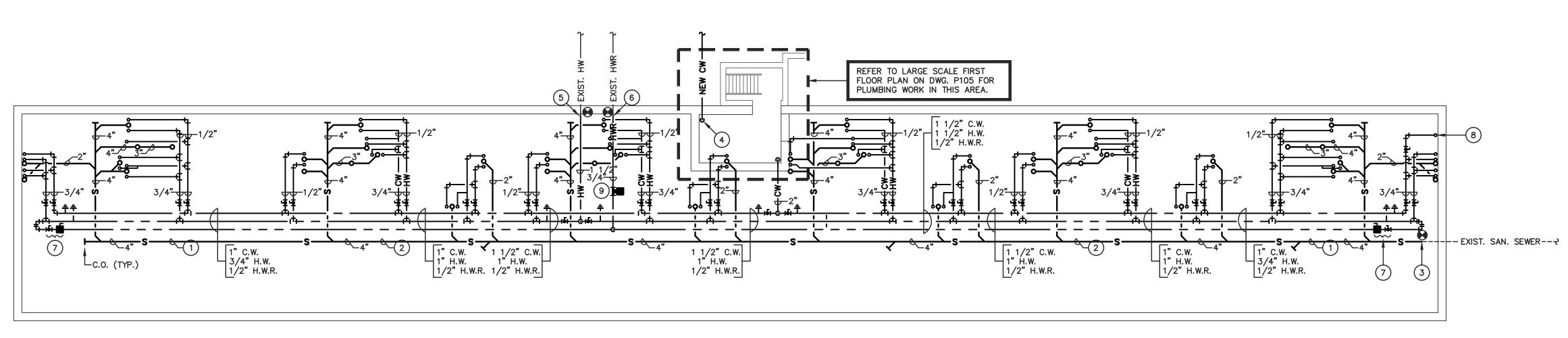


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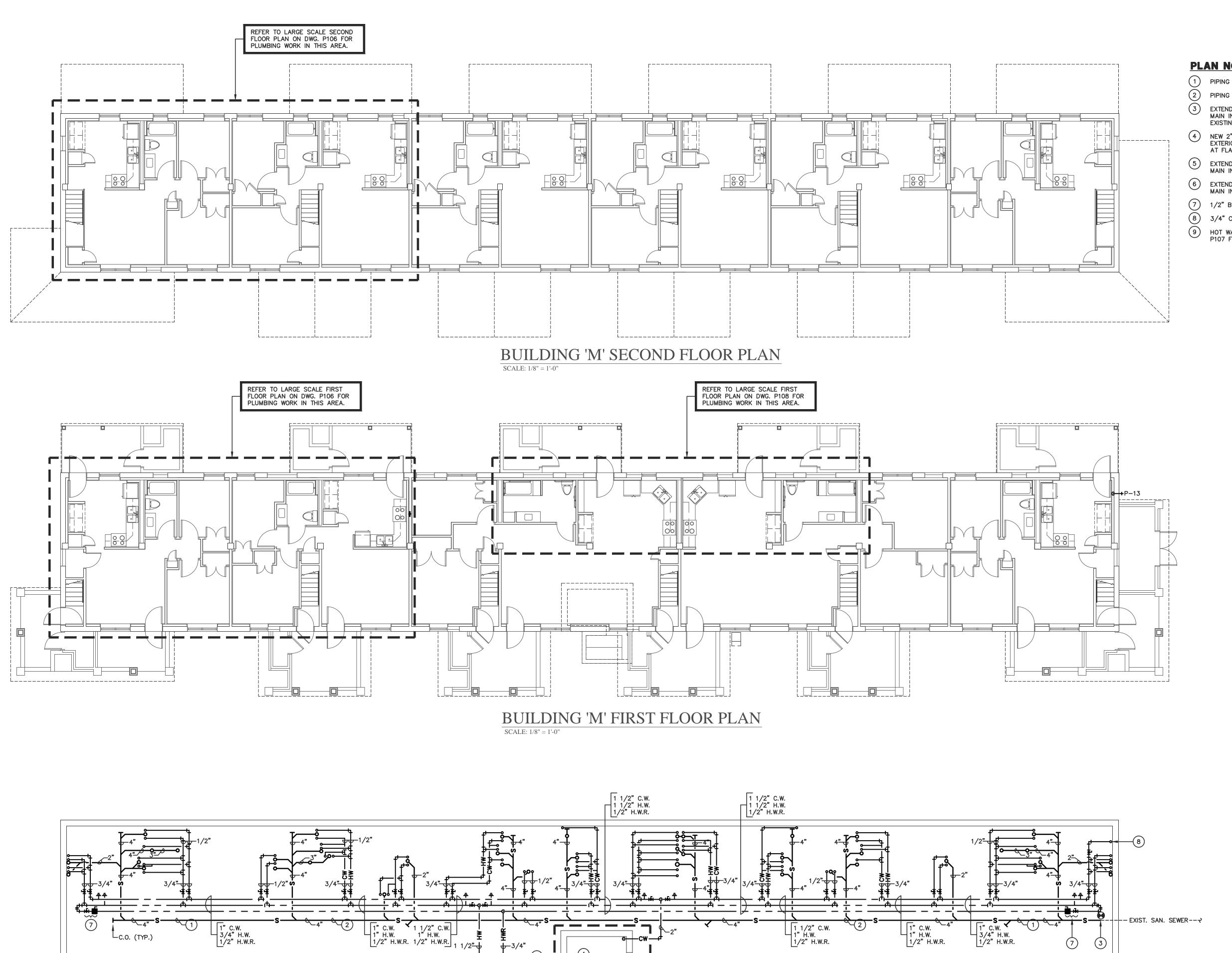






BUILDING 'L' MECHANICAL ROOM PLAN

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



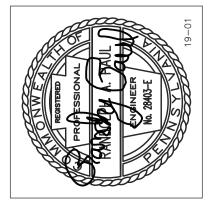
REFER TO LARGE SCALE FIRST FLOOR PLAN ON DWG. P106 FOR PLUMBING WORK IN THIS AREA.

BUILDING 'M' MECHANICAL ROOM PLAN

PLAN NOTES

- 1) PIPING RUN IN CRAWLSPACE.
- PIPING RUN AT 1/8"/FT. SLOPE.
- EXTEND AND CONNECT NEW 4" SAN. SEWER MAIN TO EXISTING SEWER MAIN IN CRAWLSPACE. FIELD VERIFY LOCATION AND INVERT OF EXISTING SEWER PIPING PRIOR TO CONSTRUCTION.
- NEW 2" DOMESTIC C.W. MAIN BY SITE CONTRACTOR TO PENETRATE EXTERIOR WALL AND TERMINATE W/FLANGE. P.C. CONTRACT STARTS AT FLANGE IN MECH. RM.
- 5 EXTEND AND CONNECT NEW 1 1/2" H.W. MAIN TO EXISTING HOT WATER MAIN IN CRAWLSPACE.
- 6 EXTEND AND CONNECT NEW 3/4" H.W.R. MAIN TO EXISTING HOT WATER MAIN IN CRAWLSPACE.
- 7) 1/2" BALL VALVE AND BALANCING VALVE CALIBRATED TO FLOW 1.0 GPM.
- (8) 3/4" C.W. RISE TO WALL HYDRANT.
- HOT WATER RETURN CIRCULATOR PUMP. REFER TO DETAIL ON DWG. P107 FOR ADDITIONAL INFO.

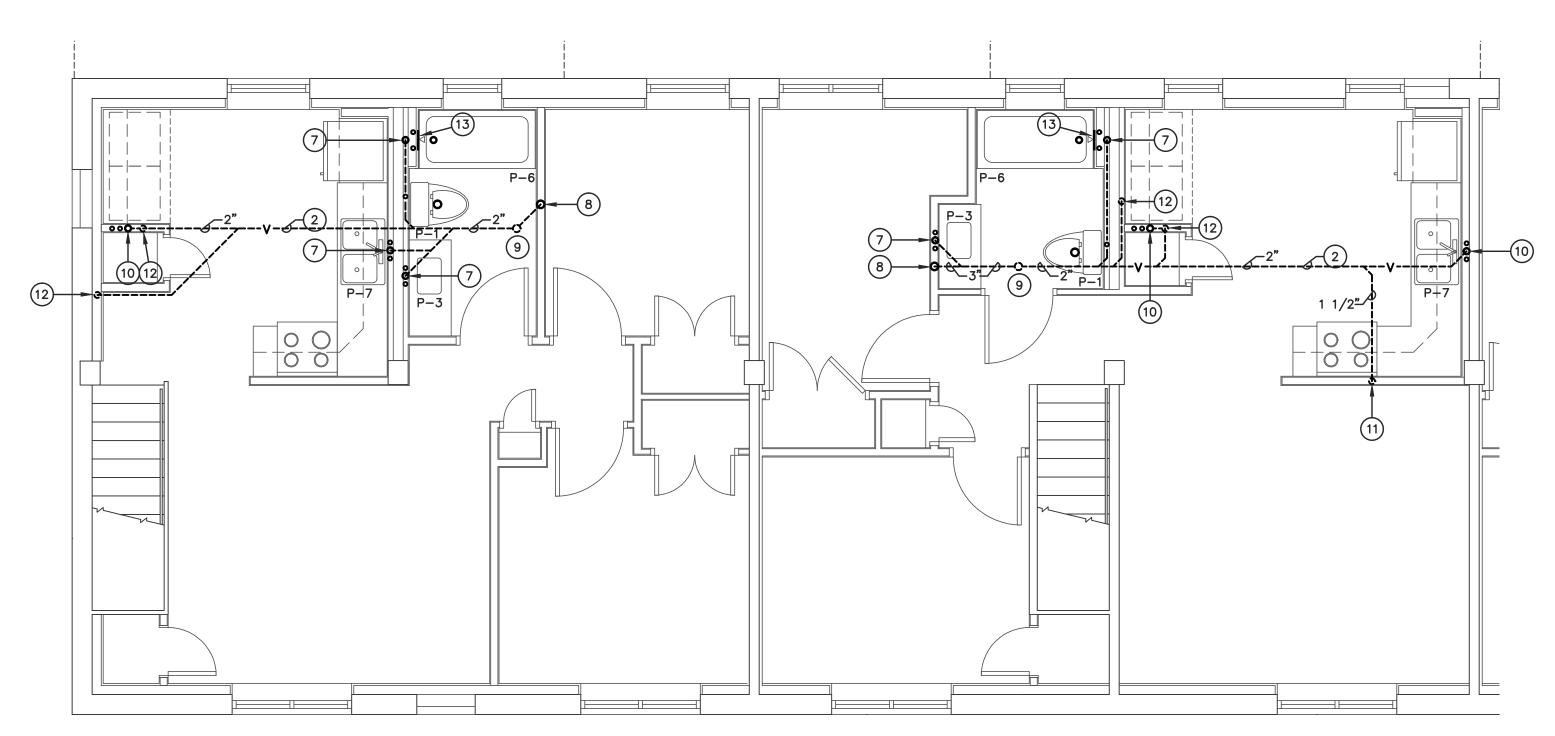




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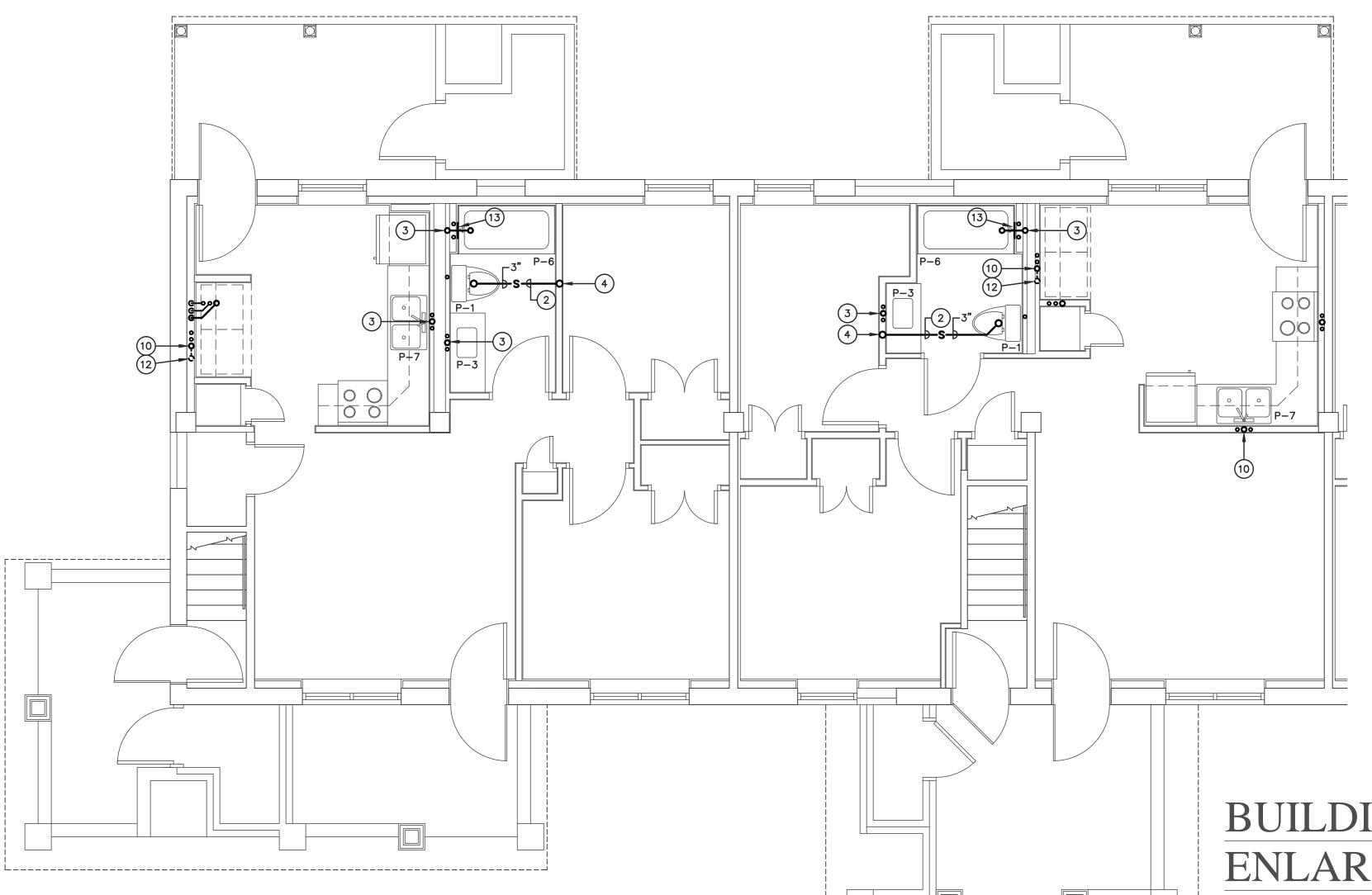
DATE: 03/29/19 SCALE: AS NOTED

JOB NO. : 337-W11



BUILDING 'K' SECOND FLOOR -ENLARGED FLOOR PLAN - PLUMBING

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



BUILDING 'K' MECH. RM. ENLARGED FLOOR PLAN - PLUMBING

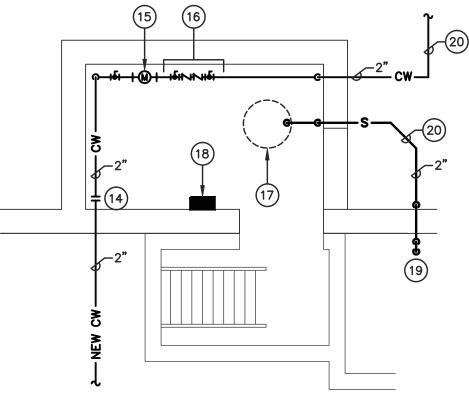
SCALE: 1/4" = 1'-0"

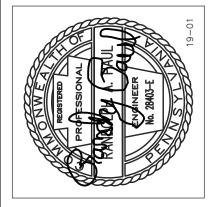
PLAN NOTES

- PIPING RUN ABOVE CEILING.
- 2" W. STACK FROM FLOOR ABOVE TO CRAWLSPACE BELOW.
- 4) 3" W. STACK FROM FLOOR ABOVE TO CRAWLSPACE BELOW.
- 2" W. STACK FROM FLOOR ABOVE TO BELOW FLOOR.
- 3" W. STACK FROM FLOOR ABOVE TO BELOW FLOOR.
- 2" V. STACK TO ABOVE CEILING.
- 3" V. STACK TO ABOVE CEILING.
- 3" V.T.R. P.C. SHALL PROVIDE NEW ATTIC AND ROOF OPENINGS W/REQUIRED FLASHING AND SEALANT FOR WATER-PROOF INSTALLATION. PLACE EXISTING INSULATION IN ATTIC SPACE TIGHT TO VENT PIPE AFTER INSTALLATION.
- PROVIDE SIOUX CHIEF NO. $696-2303 \mathrm{MF}$ 'OX-BOX' WASHING MACHINE OUTLET BOXES, W/2" STANDPIPE TO DRAIN SIDE.
- 10 1 1/2" W. & V.
- 11 1/2" V.R.
- PROVIDE ELMDOR NO. WSR-8"x8" WATER PROOF ACCESS PANEL TO 1/2" H. & C.W. BALL VALVES PRIOR BELOW PRESSURE BALANCING VALVE FOR SHOWER CONTROLS.
- 2" DOMESTIC C.W. MAIN BY SITE CONTRACTOR TO TERMINATE W/FLANGE IN MECH. RM. P.C. CONTRACT STARTS AT FLANGE.
- RE-LOCATED EXISTING 2" WATER METER TO BE INSTALLED AS PER WATER COMPANY REQUIREMENTS.
- 2" BACKFLOW PREVENTER ASSEMBLY. REFER TO WATER SERVICE DETAIL ON DWG. P107 FOR ADDITIONAL INFO.
- EXISTING SUMP PIT W/NEW SUMP PUMP. REFER TO DETAIL ON DWG. P107 FOR ADDITIONAL INFO.
- NEW SUMP PUMP CONTROLLER TO BE INSTALLED ON WALL. REFER TO DETAIL ON DWG. P107 FOR ADDITIONAL INFO.
- 2" PUMPED WASTE PIPE TO SPILL TO GRADE. REFER TO DETAIL ON DWG. P107 FOR ADDITIONAL INFO.
- 20) PIPING RUN AT CEILING OF CRAWLSPACE.

BUILDING 'K' FIRST FLOOR -ENLARGED FLOOR PLAN - PLUMBING

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





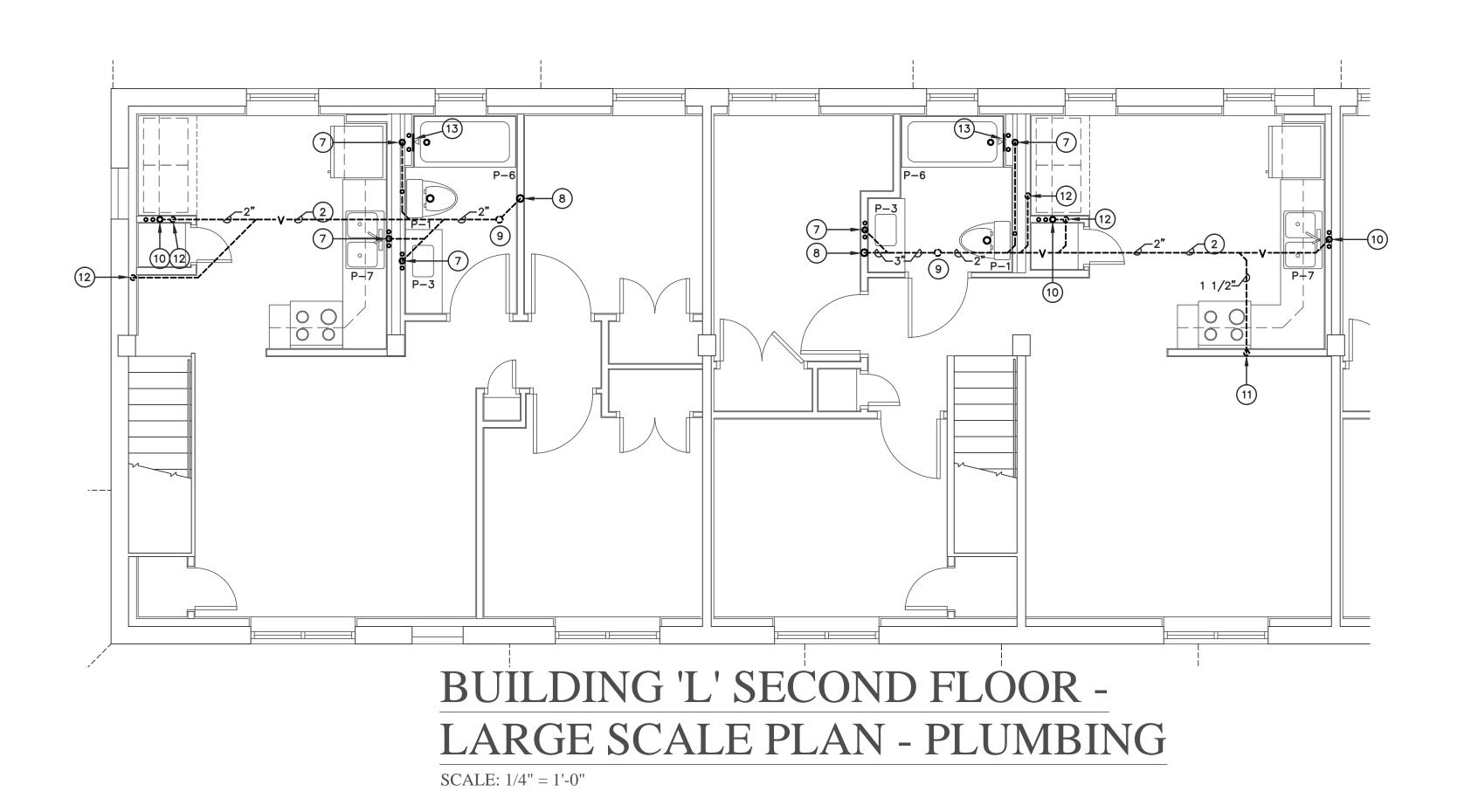


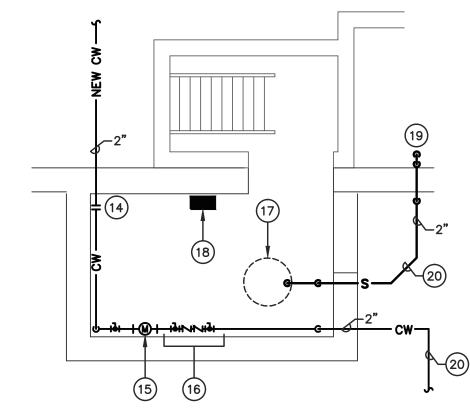
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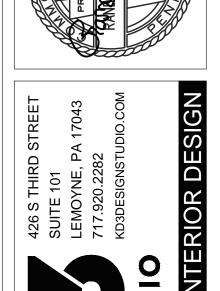
P104

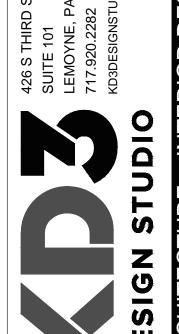




BUILDING 'L' MECH. RM. LARGE SCALE PLAN - PLUMBING

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





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P105

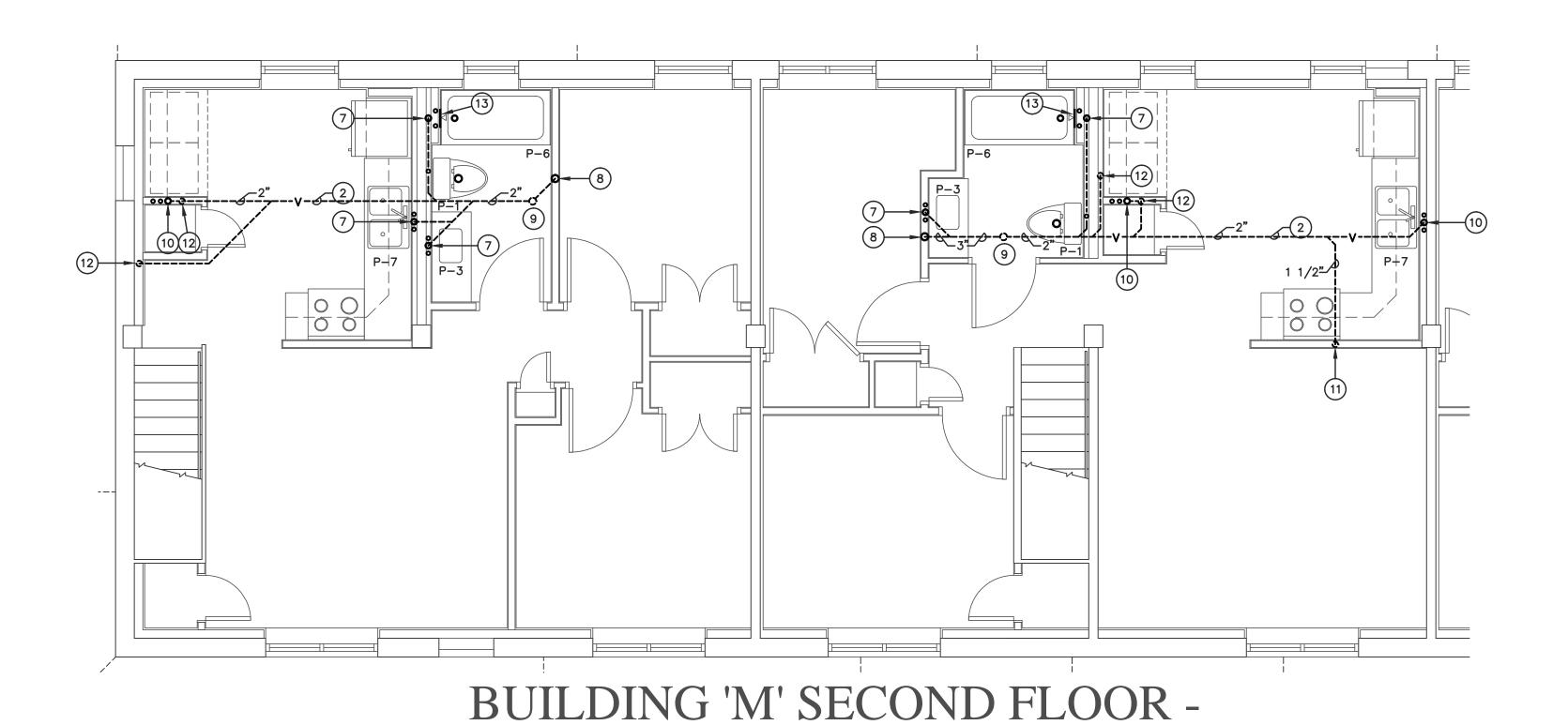
2" W. STACK FROM FLOOR ABOVE TO CRAWLSPACE BELOW. 4) 3" W. STACK FROM FLOOR ABOVE TO CRAWLSPACE BELOW. 2" W. STACK FROM FLOOR ABOVE TO BELOW FLOOR. 3" W. STACK FROM FLOOR ABOVE TO BELOW FLOOR. 2" V. STACK TO ABOVE CEILING. 3" V. STACK TO ABOVE CEILING. 3" V.T.R. P.C. SHALL PROVIDE NEW ATTIC AND ROOF OPENINGS W/REQUIRED FLASHING AND SEALANT FOR WATER-PROOF INSTALLATION. PLACE EXISTING INSULATION IN ATTIC SPACE TIGHT TO VENT PIPE AFTER INSTALLATION. PROVIDE SIOUX CHIEF NO. $696-2303 \mathrm{MF}$ 'OX-BOX' WASHING MACHINE OUTLET BOXES, W/2" STANDPIPE TO DRAIN SIDE. 10 1 1/2" W. & V. 11 1/2" V.R. PROVIDE ELMDOR NO. WSR-8"x8" WATER PROOF ACCESS PANEL TO 1/2" H. & C.W. BALL VALVES PRIOR BELOW PRESSURE BALANCING VALVE FOR SHOWER CONTROLS. 2" DOMESTIC C.W. MAIN BY SITE CONTRACTOR TO TERMINATE W/FLANGE IN MECH. RM. P.C. CONTRACT STARTS AT FLANGE. RE-LOCATED EXISTING 2" WATER METER TO BE INSTALLED AS PER WATER COMPANY REQUIREMENTS. 2" BACKFLOW PREVENTER ASSEMBLY. REFER TO WATER SERVICE DETAIL ON DWG. P107 FOR ADDITIONAL INFO. EXISTING SUMP PIT W/NEW SUMP PUMP. REFER TO DETAIL ON DWG. P107 FOR ADDITIONAL INFO. NEW SUMP PUMP CONTROLLER TO BE INSTALLED ON WALL. REFER TO DETAIL ON DWG. P107 FOR ADDITIONAL INFO. 2" PUMPED WASTE PIPE TO SPILL TO GRADE. REFER TO DETAIL ON DWG. P107 FOR ADDITIONAL INFO.



PIPING RUN ABOVE CEILING.

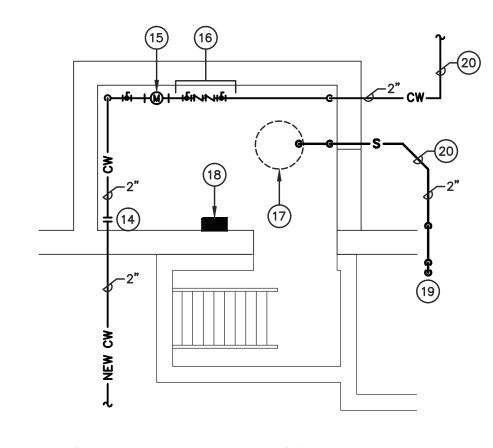
20) PIPING RUN AT CEILING OF CRAWLSPACE.

BUILDING 'L' FIRST FLOOR -LARGE SCALE PLAN - PLUMBING SCALE: 1/4" = 1'-0"



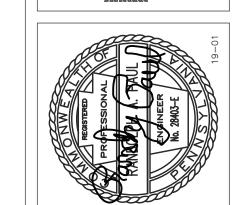
SCALE: 1/4" = 1'-0"

ENLARGED FLOOR PLAN - PLUMBING



BUILDING 'M' MECH. RM. ENLARGED FLOOR PLAN - PLUMBING

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



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DATE: 03/29/19 SCALE: AS NOTED JOB NO. : 337-W11

P106

PLAN NOTES

PIPING RUN ABOVE CEILING.

2" W. STACK FROM FLOOR ABOVE TO CRAWLSPACE BELOW. 4) 3" W. STACK FROM FLOOR ABOVE TO CRAWLSPACE BELOW.

2" W. STACK FROM FLOOR ABOVE TO BELOW FLOOR.

3" W. STACK FROM FLOOR ABOVE TO BELOW FLOOR.

2" V. STACK TO ABOVE CEILING.

3" V. STACK TO ABOVE CEILING.

3" V.T.R. P.C. SHALL PROVIDE NEW ATTIC AND ROOF OPENINGS W/REQUIRED FLASHING AND SEALANT FOR WATER-PROOF INSTALLATION. PLACE EXISTING INSULATION IN ATTIC SPACE TIGHT TO VENT PIPE AFTER INSTALLATION.

PROVIDE SIOUX CHIEF NO. $696-2303 \mathrm{MF}$ 'OX-BOX' WASHING MACHINE OUTLET BOXES, W/2" STANDPIPE TO DRAIN SIDE.

10 1 1/2" W. & V.

11 1/2" V.R.

PROVIDE ELMDOR NO. WSR-8"x8" WATER PROOF ACCESS PANEL TO 1/2" H. & C.W. BALL VALVES PRIOR BELOW PRESSURE BALANCING VALVE FOR SHOWER CONTROLS.

2" DOMESTIC C.W. MAIN BY SITE CONTRACTOR TO TERMINATE W/FLANGE IN MECH. RM. P.C. CONTRACT STARTS AT FLANGE.

RE-LOCATED EXISTING 2" WATER METER TO BE INSTALLED AS PER WATER COMPANY REQUIREMENTS.

2" BACKFLOW PREVENTER ASSEMBLY. REFER TO WATER SERVICE DETAIL ON DWG. P107 FOR ADDITIONAL INFO.

EXISTING SUMP PIT W/NEW SUMP PUMP. REFER TO DETAIL ON DWG. P107 FOR ADDITIONAL INFO.

NEW SUMP PUMP CONTROLLER TO BE INSTALLED ON WALL. REFER TO DETAIL ON DWG. P107 FOR ADDITIONAL INFO.

2" PUMPED WASTE PIPE TO SPILL TO GRADE. REFER TO DETAIL ON DWG. P107 FOR ADDITIONAL INFO.

20) PIPING RUN AT CEILING OF CRAWLSPACE.

BUILDING 'M' FIRST FLOOR -ENLARGED FLOOR PLAN - PLUMBING

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

PLUMBING SPECIFICATIONS

8" DIA. OR LARGER = 1/16" / FT.

- 1. ALL PLUMBING WORK SHOULD BE IN ACCORDANCE TO THE LATEST ADOPTED EDITION OF THE INT'L. BUILDING CODE, INT'L. PLUMBING CODE, AND THE LOCAL AUTHORITIES HAVING JURISDICTION.
- 2. P.C. SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND SITE PRIOR TO BID.
- 3. ALL ABOVE FLOOR WATER PIPING SHALL BE INSULATED AS FOLLOWS:
- COLD WATER (1/2" TO 1" DIA.) = 1/2" THICK ARMSTRONG AP "ARMAFLEX"COLD WATER (1 1/4" TO 4" DÍA.) = 1" THICK ARMAFLEX HOT WATER TO 140° F $(1/2^{\circ}$ TO $1/4^{\circ}$ DIA.) = 1" THICK ARMAFLEX HOT WATER TO 140° F (1 1/2" AND UP.) = 1 1/2" THICK ARMAFLEX NOTE: DO NOT INSULATE MAIN WATER SERVICE VALVES, BACKFLOW PREVENTER, METER, ETC. IN MECH. ROOM.
- 4. ALL WORK SHALL BE GUARANTEED TO BE FREE OF DEFECTIVE WORK, MATERIALS, OR PARTS FOR A PERIOD OF 2 YEARS AFTER ACCEPTANCE BY THE OWNER. REPAIR, REVISE OR REPLACE AT NO COST TO THE OWNER, ANY SUCH DEFECTS OCCURRING WITHIN THE GUARANTEE PERIOD.
- 5. PIPES AND FITTINGS SPECIFICATIONS: DOMESTIC WATER PIPING MAINS (ABOVE AND BELOW GRADE): CPVC TUBING ASTM D 1784 W/SOLVENT WELD FITTINGS. PIPING AND FITTINGS SHALL CONFORM TO ASTM D 2846 AND NSF STANDARDS 14 AND 61.

DOMESTIC WATER PIPING (ABOVE AND BELOW GRADE) ALTERNATE: COPPER TUBING ASTM B88 TYPE "L", HARD DRAWN, W/CAST BRASS OR WROUGHT COPPER FITTINGS JOINED WITH LEAD-FREE SOLDER OR COPPER PRESS-FIT FITTINGS.

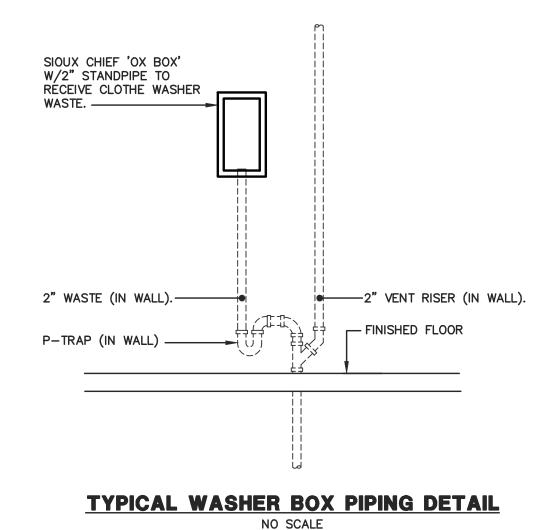
SANITARY SEWER AND VENT PIPING: PVC PIPE, ASTM D2665, SCHEDULE 40 DWV, W/SOLVENT WELD FITTINGS.

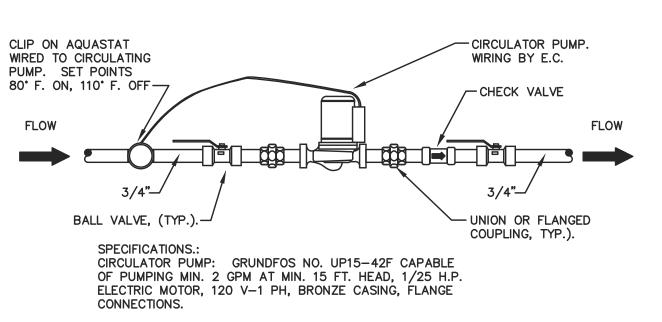
- 6. SLOPE OF SANITARY SEWER PIPING SHALL BE AS FOLLOWS, (UNLESS NOTED OTHER-WISE ON FLOOR PLANS): $2 \frac{1}{2}$ " DIA. OR LESS = $\frac{1}{4}$ " / FT. 3" TO 6" DIA. = 1/8" / FT.
- 7. PROVIDE DRAINS, OVERFLOWS, STRAINERS, P-TRAPS, STOPS & SUPPLIES, ETC. AS REQUIRED. KOHLER, CHICAGO, BRASS CRAFT, OR MCGUIRE ARE ACCEPTABLE MANUFACTURERS FOR THESE ITEMS.

- 8. PROVIDE WATER STOP VALVES IN AN ACCESSIBLE LOCATION FOR EVERY PLUMBING FIXTURE.
- 9. TEST ALL PLUMBING PIPING FOR LEAKS IN ACCORDANCE WITH THE REGULATIONS OF THE LOCAL AUTHORITY PRIOR TO CONSTRUCTION COMPLETION. AT COMPLETION OF PLUMBING WORK, BUT BEFORE THE FINAL INSPECTION IS MADE, THOROUGHLY CLEAN ALL PLUMBING FIXTURES, EQUIPMENT, ESCUTCHEONS, ETC. TO BE FREE FROM ALL MARKS, SCRATCHES, STAINS, ETC. REPLACE ANY DAMAGED OR MARRED ITEMS AT NO COST TO THE OWNER.
- 10. ALL DOMESTIC WATER PIPING SHALL BE DISINFECTED PER THE REQUIREMENTS OF THE 2015 INTERNATIONAL PLUMBING CODE, SECTION 610. A. PRIOR TO COMMENCING DISINFECTION PROCESS, VERIFY SYSTEM IS COMPLETELY FLUSHED CLEAN. INSURE PH LEVEL OF WATER TO BE TREATED IS BETWEEN 7.4 AND 7.6 BY ADDING ALKALI (CAUSTIC SODA OR SODA ASH), OR ACID
- (HYDROCHLORIC). B. INJECT THE CHLORINE SOLUTION CONTAINING NOT LESS THAN 50 PARTS PER MILLION (50 MG/L) OF CHLORINE. THE SYSTEM OR PART OF SYSTEM BEING DISINFECTED SHALL BE VALVED CLOSED, AND ALLOWED TO STAND FOR 24
- C. FOLLOWING THE REQUIRED STANDING TIME, THE SYSTEM SHALL BE FLUSHED WITH CLEAN POTABLE WATER UNTIL THE CHLORINE IS PURGED FROM THE SYSTEM. TAKE SAMPLES OF WATER NO SOONER THAN 24 HOURS AFTER FLUSHING AND ANALYZE IN ACCORDANCE WITH AWWA C651. REPEAT DIS-INFECTION PROCEDURE IF BACTERIA IS STILL FOUND PRESENT.
- 11. PROVIDE AND INSTALL ALL REQUIRED PIPE FITTINGS, REDUCERS, TRANSITIONS, ADAPTERS, HANGERS, SUPPORTS AND SPECIALTIES NECESSARY FOR A COMPLETE INSTALLATION IN ACCORDANCE WITH CODES AND MFG. REQUIREMENTS.
- 12. ALL ROOF PENETRATIONS SHALL BE CUT & PATCHED BY PLUMBING CONTRACTOR TO MAINTAIN A WATER-PROOF INSTALLATION. P.C. IS RESPONSIBLE TO FIX ANY DAMAGES OR LEAKS IN THE ROOF OR ATTIC SYSTEM WHERE PIPING IS
- 13. ALL INDIVIDUAL PEX WATER SUPPLIES (BOTH HOT OR COLD WATER) SHALL BE 1/2" DIA. UNLESS NOTED OTHERWISE ON THE FLOOR PLANS.
- 14. ALL BALL VALVES SHALL BE FULL PORT TYPE, AND BE OF BRASS OR NICKEL BRONZE CONSTRUCTION, (NO PLASTIC VALVES SHALL BE APPROVED).

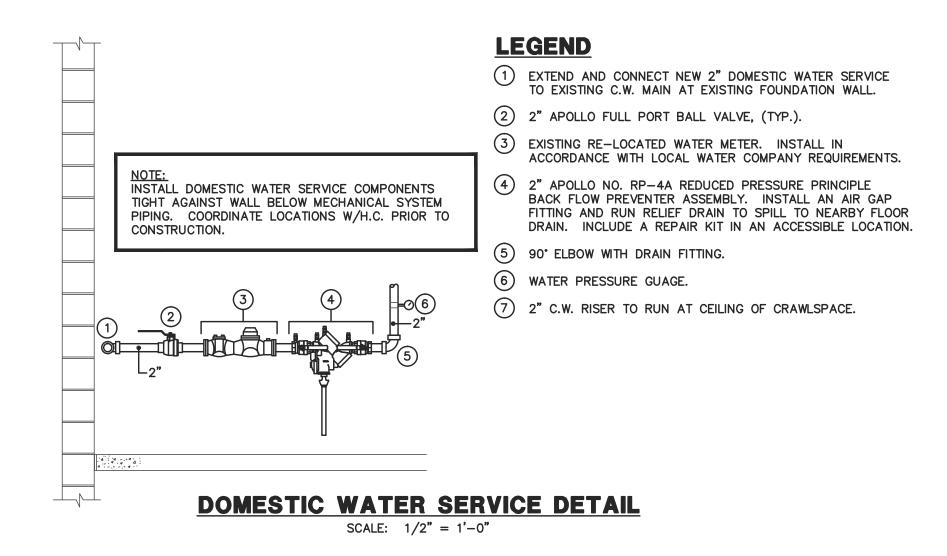
| | | | | PL | .UMB | ING F | IXTURE SCHEDULE |
|-------|---|---|------|------|--------|--------|---|
| I.D. | DESCRIPTION | | H.W. | C.W. | W. | V. | SPECIFICATIONS |
| P-1 | WATER CLOSET (FLOOR MTD., TANK TYPE) | | - | 1/2" | 3" | 2" | TOTO NO. CST744E FLOOR MOUNTED, TANK TYPE TOILET W/ELONGATED BOWL, (1.28 GPF) AND BEMIS NO. 200E3 CLOSED FRONT, SOLID PLASTIC SEAT W/LID, SUPPLY, STOP, ETC. |
| P-1A | WATER CLOSET | Ł | - | 1/2" | 3" | 2" | TOTO NO. CST744EL FLOOR MOUNTED, TANK TYPE TOILET W/ELONGATED BOWL, (1.28 GPF) AND BEMIS NO. 200E3 CLOSED FRONT, SOLID PLASTIC SEAT W/LID, SUPPLY, STOP, ETC. |
| P-3 | LAVATORY (COUNTER-TOP) | | 1/2" | 1/2" | 1 1/2" | 1 1/2" | COUNTER-TOP W/INTEGRAL LAVATORY BASIN PROVIDED BY OTHERS. P.C. SHALL PROVIDE MOEN NO. L4625 SINGLE HANDLE CHROME FAUCET W/POP-UP DRAIN, P-TRAP W/CLEAN-OUT, SUPPLIES, & STOPS. |
| P-3A | LAVATORY (COUNTER-TOP) | Ł | 1/2" | 1/2" | 1 1/2" | 1 1/2" | SAME AS P-3, EXCEPT TO INCLUDE OFF-SET P-TRAP AND MOUNTED TO MEET ADA GUIDELINES. INSTALL TRUEBRO PIPE COVERS ON WATER SUPPLIES AND P-TRAP. |
| P-6 | BATHTUB/SHOWER (30" W. x 60" L.) | | 1/2" | 1/2" | 2" | 2" | SWANSTONE NO. BT-3060 L/R BATHTUB W/MOEN NO. TL183 TUB AND SHOWER PACKAGE INCLUDING PRESSURE BALANCING MIXING VALVE, TUB SPOUT, AND SHOWER HEAD. ALSO TUB GRID DRAIN AND OVERFLOW ASSEMBLY, P-TRAP, SUPPLIES. ETC. 60" W. x 30" D. x 16" H. |
| P-6A | BATHTUB/SHOWER (30" W. × 60" L.) | Ł | 1/2" | 1/2" | 2" | 2" | SWANSTONE NO. BT-3060 L/R BATHTUB W/MOEN NO. TL183 TUB AND SHOWER PACKAGE INCLUDING PRESSURE BALANCING MIXING VALVE, TUB SPOUT, AND SHOWER HEAD, MOEN NO. 52710 HANDSHOWER W/SLIDE BAR, TUB GRID DRAIN AND OVERFLOW ASSEMBLY, P-TRAP, SUPPLIES. ETC. 60" W. x 30" D. x 16" H. |
| P-7 | KITCHEN SINK (DOUBLE BOWL) | | 1/2" | 1/2" | 1 1/2" | 1 1/2" | MOEN NO. G182134Q STAINLESS STEEL, DOUBLE BOWL SINK W/MOEN NO. 7425 SINGLE HANDLE CHROME FAUCET, BASKET DRAIN, P-TRAP W/CLEANOUT, SUPPLIES, STOPS, ETC. |
| P-7A | KITCHEN SINK (DOUBLE BOWL) | Ł | 1/2" | 1/2" | 1 1/2" | 1 1/2" | ELKAY NO. LRAD332250 STAINLESS STEEL, DOUBLE BOWL SINK W/MOEN NO. 7425 SINGLE HANDLE CHROME FAUCET, BASKET DRAIN, P-TRAP W/CLEANOUT, SUPPLIES, STOPS, ETC. |
| P-13 | WALL HYDRANT | | _ | 3/4" | - | - | WOODFORD NO. 17 ANTI-FREEZE WALL FAUCET W/VACUUM BREAKER, SUPPLY, ETC. |
| | | | | | | | |
| NOTES | <u> </u> | | | | | | |

- 1. (()) INDICATES THE ONLY ALTERNATES TO BE ACCEPTED. ADA COMPLIANT INSULATION COVERS FOR TRAPS AND SUPPLIES SHALL BE TRUEBRO, INC.
- SYMBOL INDICATES FIXTURE TO BE ADA COMPLIANT.



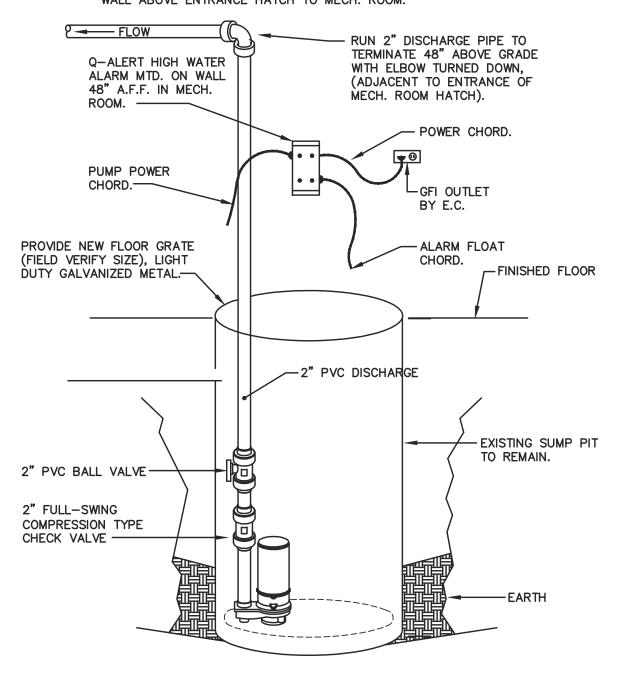


HOT WATER RETURN CIRCULATOR DETAIL

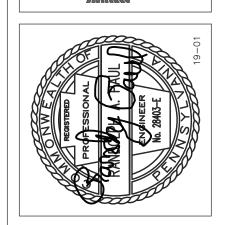


SPECIFICATIONS:

- 1. SUMP PUMP SPECIFICATION: WEIL NO. 1618 CAPABLE OF PUMPING 10 GPM @ 20 FT. T.D.H. U.L. 778 LISTED, AND SHALL INCLUDE THERMAL AND OVERLOAD PROTECTION. ELECTRIC MOTOR SHALL BE RATED 1/2 H.P., 120 V-1 PH.
- 2. PROVIDE SIMPLEX ALARM PANEL IN AN ACCESSIBLE LOCATION IN MECH. ROOM ON WALL. ALARM PANEL SHALL INCLUDE: MAIN CIRCUIT BREAKER, MOTOR CONTACTOR, HAD OFF AUTO SELECTOR SWITCH, PUMP RUNNING PILOT LIGHT (AMBER). AUDIBLE ALARM BUZZER W/SILENCER AND RESET SWITCH, NEMA 6 FLOAT SWITCH (FOR PUMP ON/OFF CONTROL), NEMA 6 FLOAT SWITCH (FOR PUMP HIGH LIQUID).
- 3. PROVIDE VISUAL ALARM LIGHT ON THE BUILDING EXTERIOR WALL ABOVE ENTRANCE HATCH TO MECH. ROOM.



SIMPLEX SUMP PUMP DETAIL



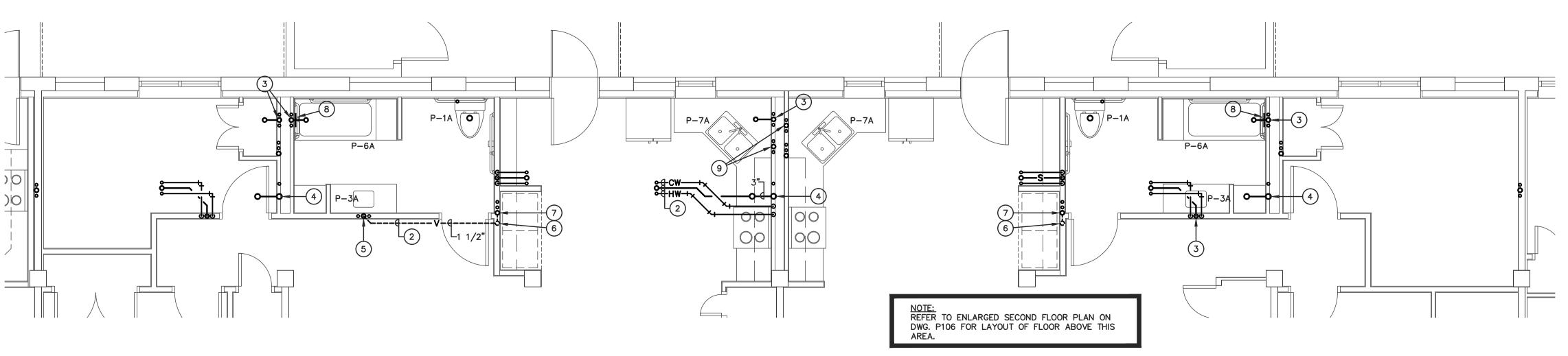
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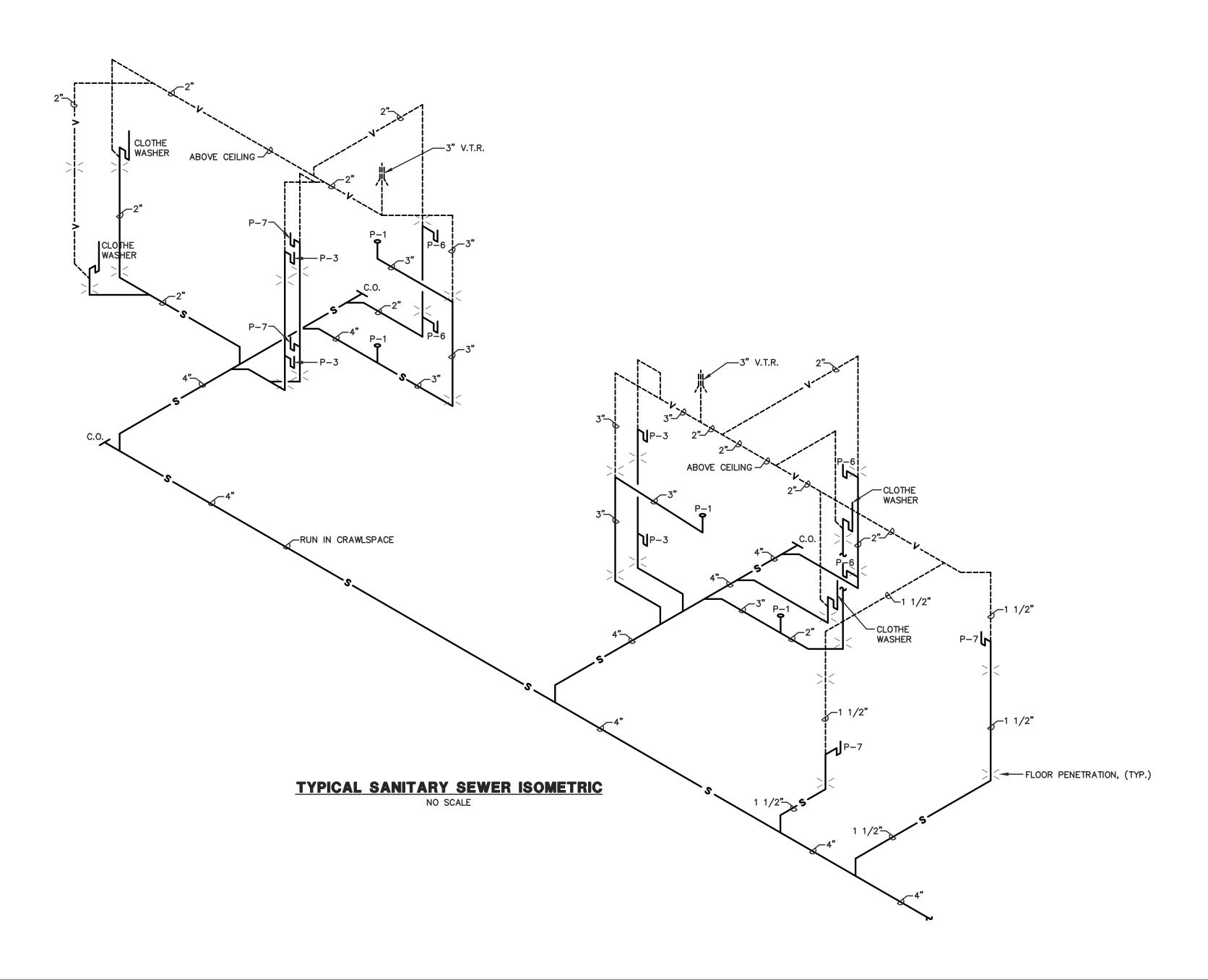
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JOB NO.: 337-W11



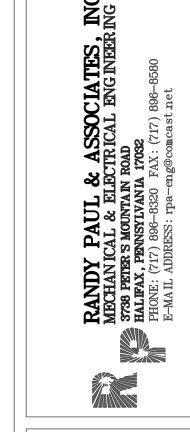
BUILDING 'M' FIRST FLOOR ENLARGED FLOOR PLAN - PLUMBING

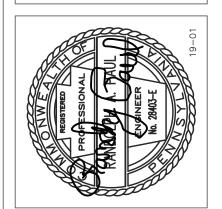
SCALE: 1/4" = 1'-0"



PLAN NOTES

- 1) PIPING RUN BELOW FLOOR.
- PIPING RUN ABOVE CEILING.
- 2" W. STACK FROM FLOOR ABOVE TO CRAWLSPACE BELOW.
- 3" W. STACK FROM FLOOR ABOVE TO CRAWLSPACE BELOW.
-) 1 1/2" W. & V.
- 6 2" V.R. TO FLOOR ABOVE. EXTEND AND CONNECT TO NEARBY V. PIPING RUN ABOVE CEILING OF SECOND FLOOR.
- 7 PROVIDE SIOUX CHIEF NO. 696-2303MF 'OX-BOX' WASHING MACHINE OUTLET BOXES, W/2" STANDPIPE TO DRAIN SIDE.
- PROVIDE ELMDOR NO. WSR-8"x8" WATER PROOF ACCESS PANEL TO 1/2" H. & C.W. BALL VALVES PRIOR BELOW PRESSURE BALANCING VALVE FOR SHOWER CONTROLS.
- 9 1 1/2" W. & V.R. TO FLOOR ABOVE. EXTEND AND CONNECT V. TO NEARBY V. PIPING RUN ABOVE CEILING OF SECOND FLOOR.







WILLIAM HOWARD DAY HOMES
RENOVATIONS - BUILDINGS K, L & M
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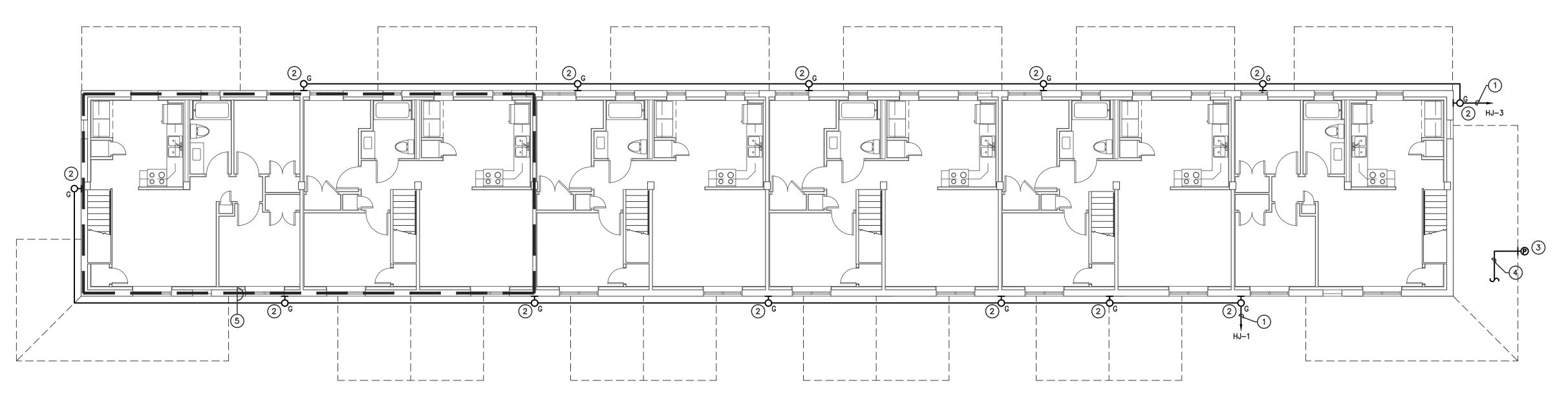
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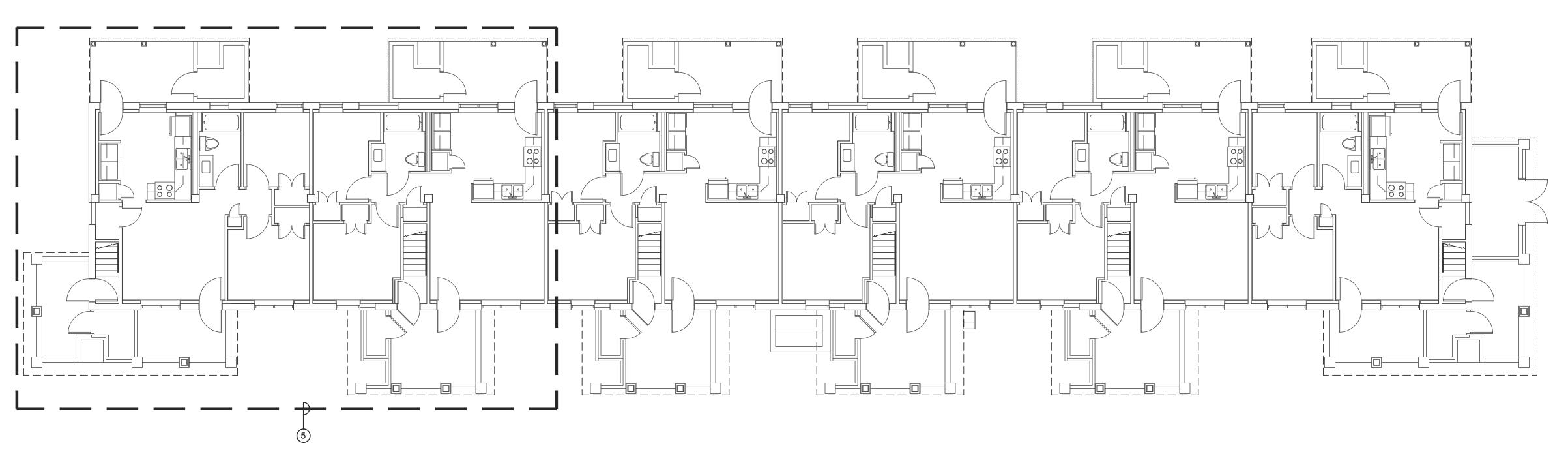
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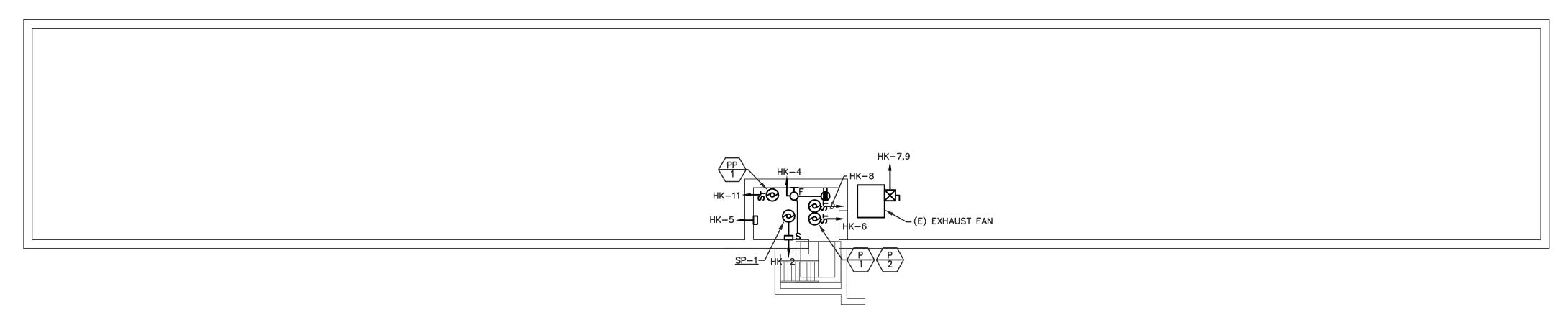
P108



BUILDING 'K' SECOND FLOOR PLAN



BUILDING 'K' FIRST FLOOR PLAN SCALE: 1/8" = 1'-0"



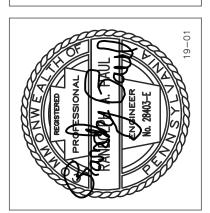
BUILDING 'K' MECHANICAL ROOM PLAN

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

PLAN NOTES

- 1) EXTEND WIRING AND CONDUIT VIA LIGHTING CONTACTOR C1. CONTACTOR SHALL BE 4 POLE CONTACTOR IN NEMA 3R ENCLOSURE
- 2) MOUNT TOP OF FIXTURE AT 8" BELOW SECOND FLOOR LEVEL.
- (3) MOUNT PHOTOCELL ON UNDERSIDE OF ROOF OVERHANG.
- PROVIDE 2#12 AND 1/2 GROUND AND CONNECT PHOTOCELL TO CONTROL LIGHTING CONTACTOR C1.
 - SEE LARGE SCALE PLAN DRAWING E104 FOR ELECTRICAL LAYOUT.





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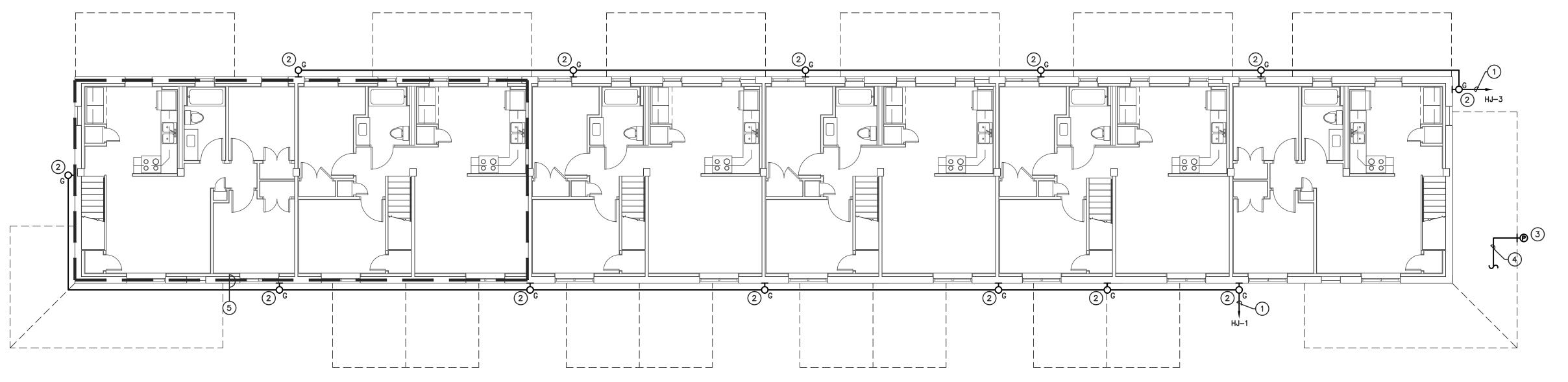
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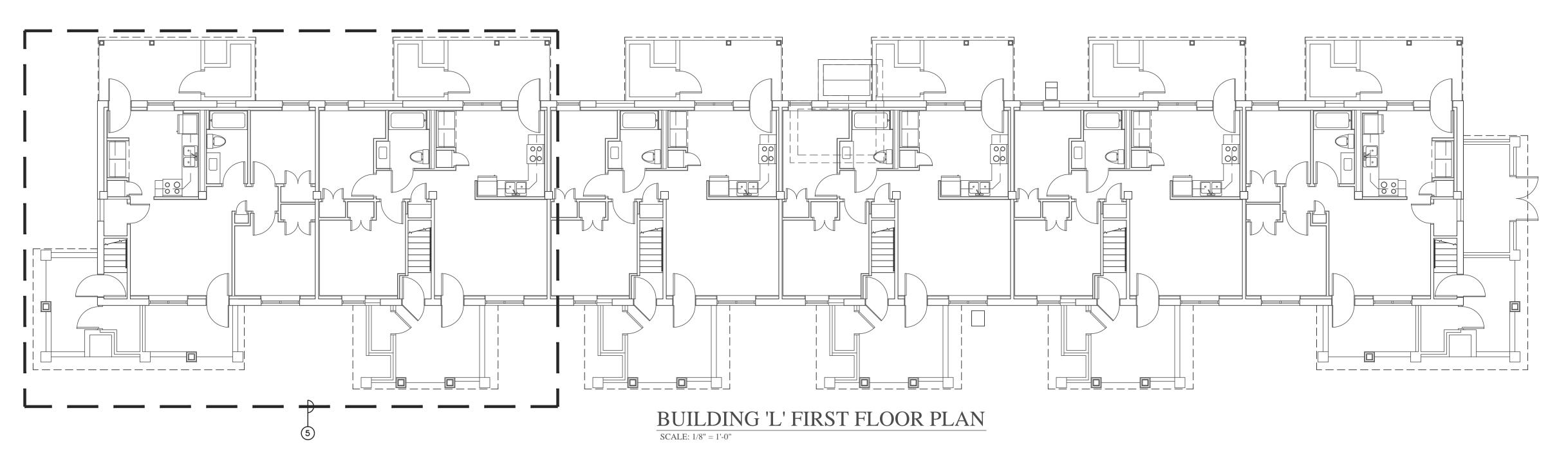
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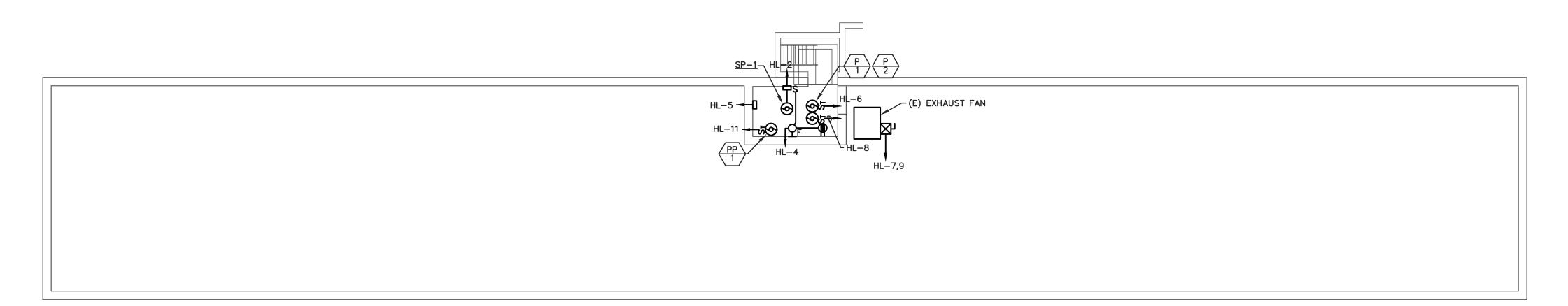
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SHEET



BUILDING 'L' SECOND FLOOR PLAN SCALE: 1/8" = 1'-0"





BUILDING 'L' MECHANICAL ROOM PLAN

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

PLAN NOTES:

- 1 EXTEND WIRING AND CONDUIT VIA LIGHTING CONTACTOR C1. CONTACTOR SHALL BE 4 POLE CONTACTOR IN NEMA 3R ENCLOSURE
- 2 MOUNT TOP OF FIXTURE AT 8" BELOW SECOND FLOOR LEVEL.
- 3 MOUNT PHOTOCELL ON UNDERSIDE OF ROOF OVERHANG.
- PROVIDE 2#12 AND 1/2 GROUND AND CONNECT PHOTOCELL TO CONTROL LIGHTING CONTACTOR C1.
- SEE LARGE SCALE PLAN DRAWING E104 FOR ELECTRICAL LAYOUT.





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ARCHITECTURE + INTERIOR DESIGN

426 S THIRD STREET
SUITE 101
LEMOYNE, PA 17043
717.920.2282
KD3DESIGNSTUDIO.COM

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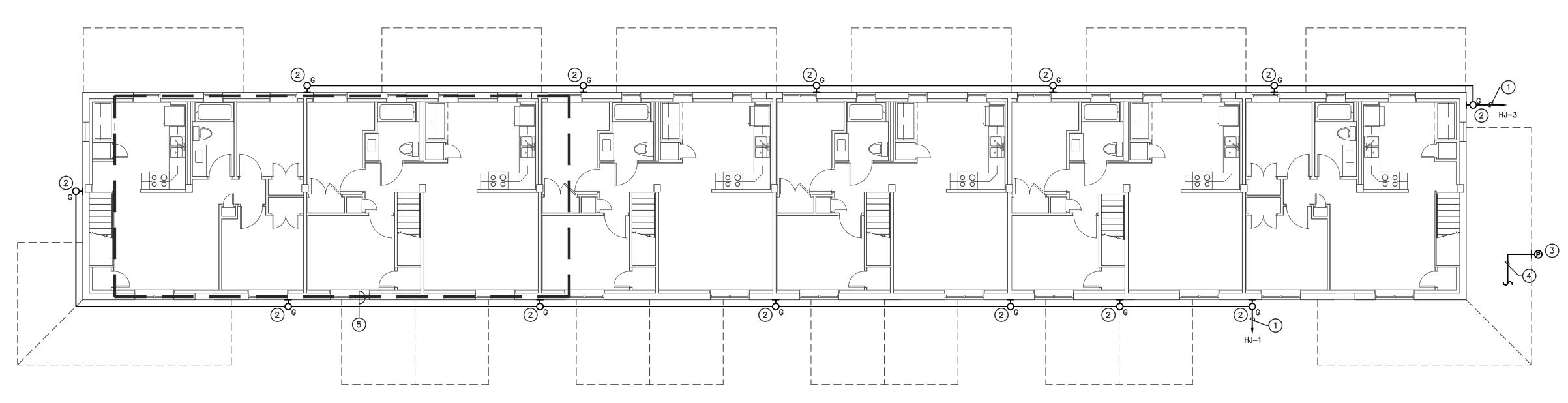
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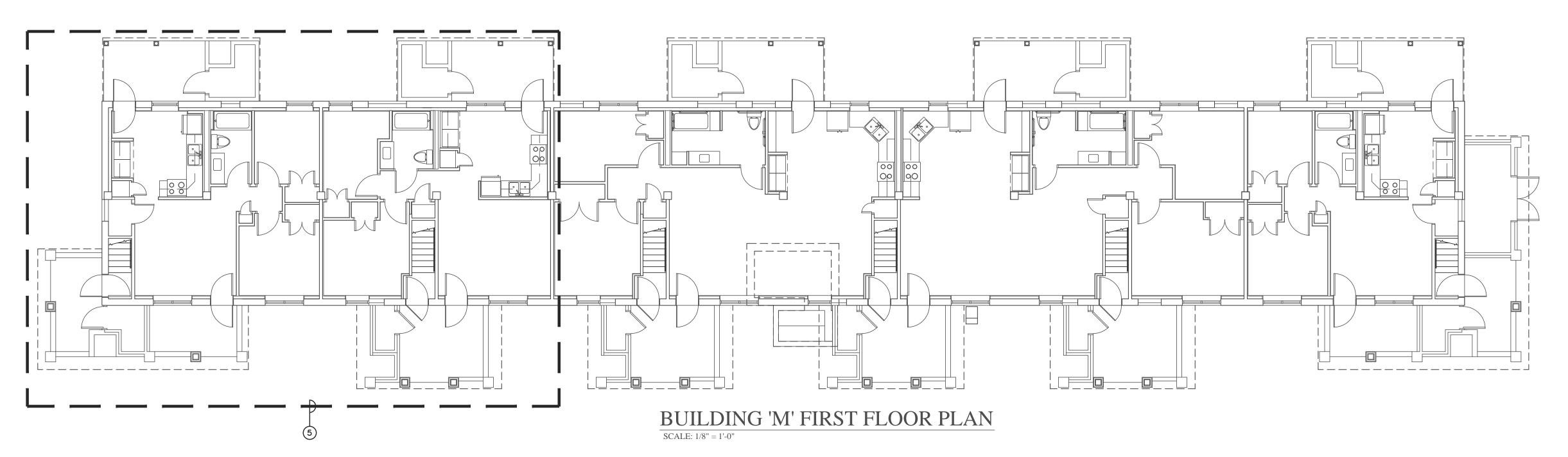
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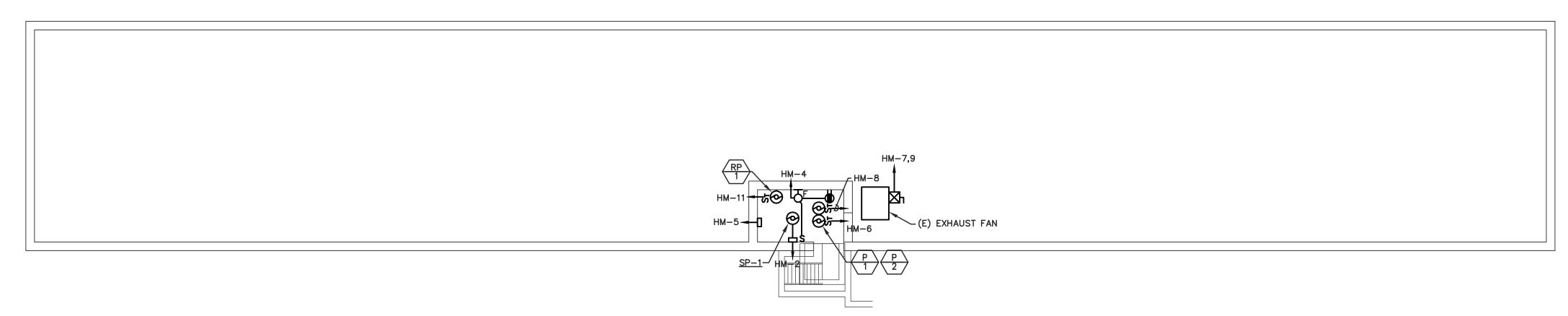
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BUILDING 'M' SECOND FLOOR PLAN SCALE: 1/8" = 1'-0"





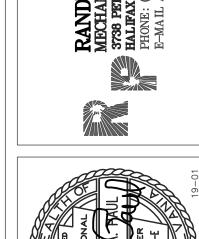
BUILDING 'M' MECHANICAL ROOM PLAN

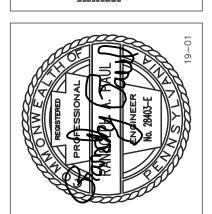
SCALE: 1/8" = 1'-0"

PLAN NOTES:

- 1) EXTEND WIRING AND CONDUIT VIA LIGHTING CONTACTOR C1. CONTACTOR SHALL BE 4 POLE CONTACTOR IN NEMA 3R ENCLOSURE
- (2) MOUNT TOP OF FIXTURE AT 8" BELOW SECOND FLOOR LEVEL.

 (3) MOUNT PHOTOCELL ON UNDERSIDE OF ROOF OVERHANG.
- PROVIDE 2#12 AND 1/2 GROUND AND CONNECT PHOTOCELL TO CONTROL LIGHTING CONTACTOR C1.
- 5 SEE LARGE SCALE PLAN DRAWING E104 FOR ELECTRICAL LAYOUT.





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SUITE 101
LEMOYNE, PA 17043
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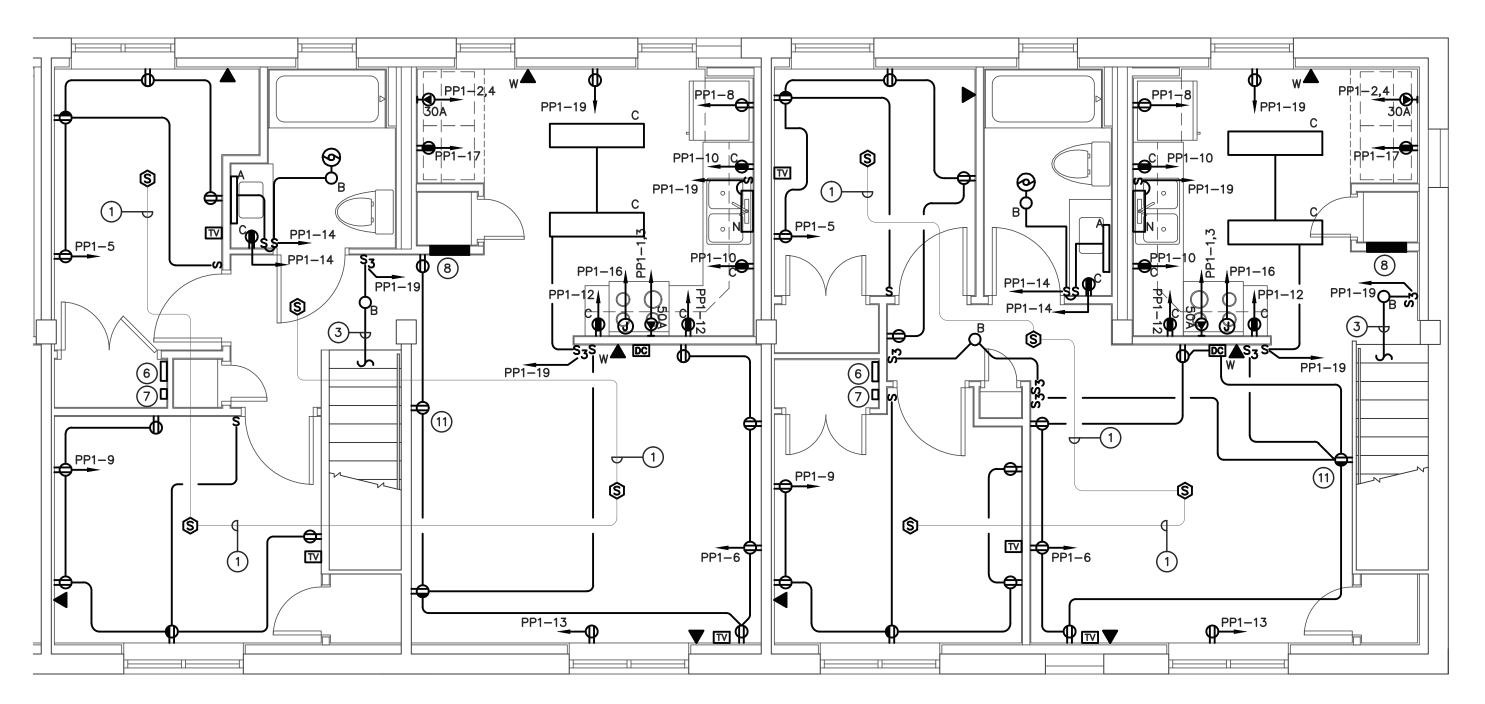
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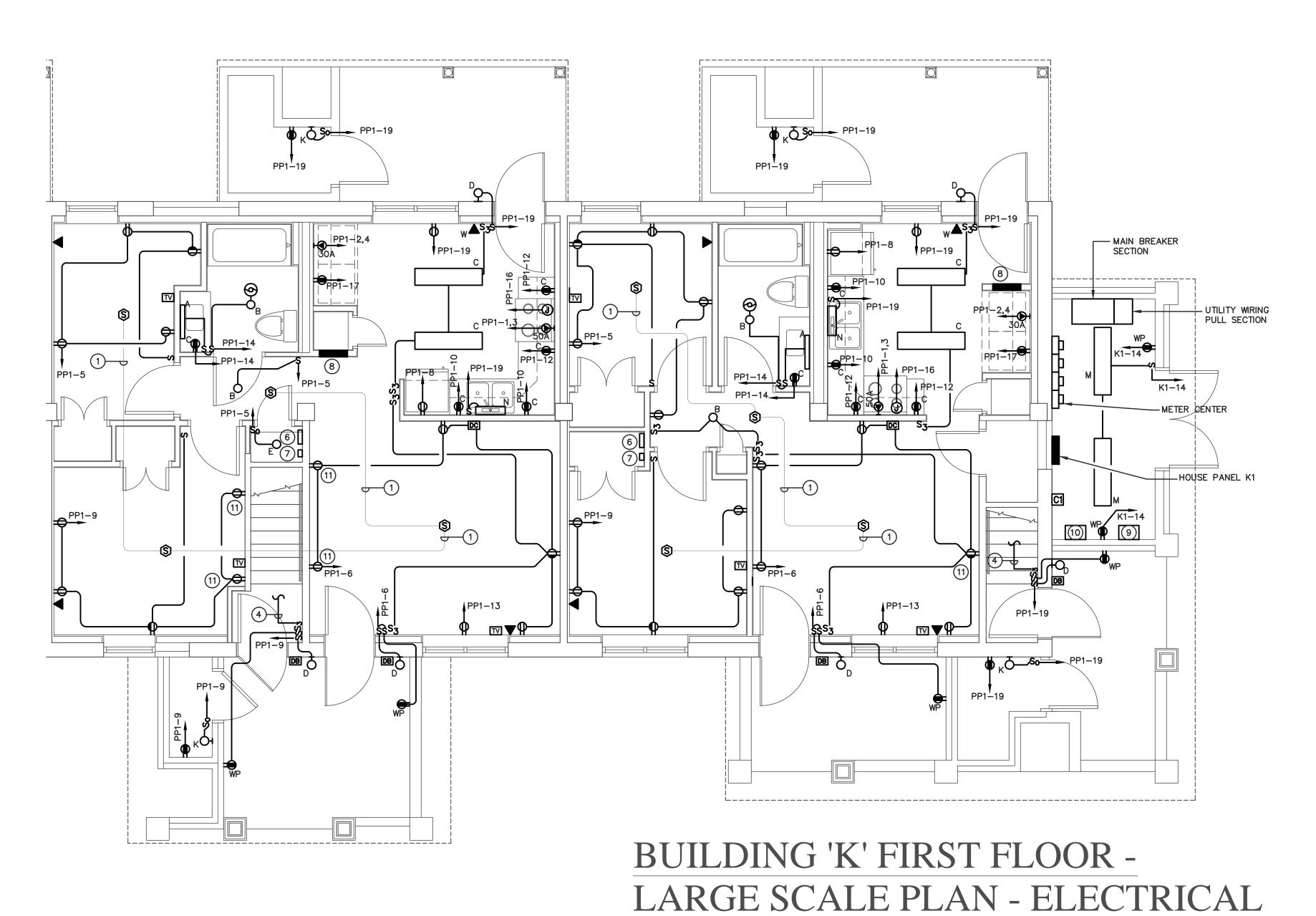
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BUILDING 'K' SECOND FLOOR -LARGE SCALE PLAN - ELECTRICAL

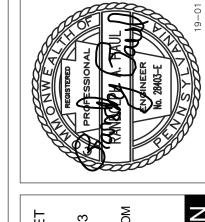
SCALE: 1/4'' = 1'-0''



PLAN NOTES:

- CONNECT 120 VOLT SMOKE DETECTOR UNSTITCHED TO CIRCUIT INDICATED. EXTEND THE INTERCONNECTION WIRING AS RECOMMENDED BY THE MANUFACTURER TO INITIATE LOCAL ALARMS ON ALL DETECTORS IN THE
 - COORDINATE FINAL LOCATIONS OF WIRING DEVICES PRIOR TO ROUGH-INS.
- DOWN TO 3-WAY SWITCH LOCATED AT ENTRANCE DOOR.
- UP TO LIGHT FIXTURE AT TOP OF STAIRS.
- PROVIDE SURFACE RACEWAY FROM FLOOR TO OUTLET BOX LOCATION WHERE DEVICES ARE LOCATED ON EXISTING WALL CONSTRUCTION. FEED CIRCUIT WIRING FROM FLOOR BELOW.
- PROVIDE TERMINATION CABINET WITH PUNCH DOWN BLOCK FOR DATA/VOIVE CABLE. PROVIDE A HOME RUN FROM EACH TELEPHONE OUTLET AND TERMINATE ON TERMINAL BLOCK.
- CABLE TV SERVICE ENTRANCE EQUIPMENT. COORDINATE REQUIREMENTS WITH CABLE TV UTILITY PROVIDER.

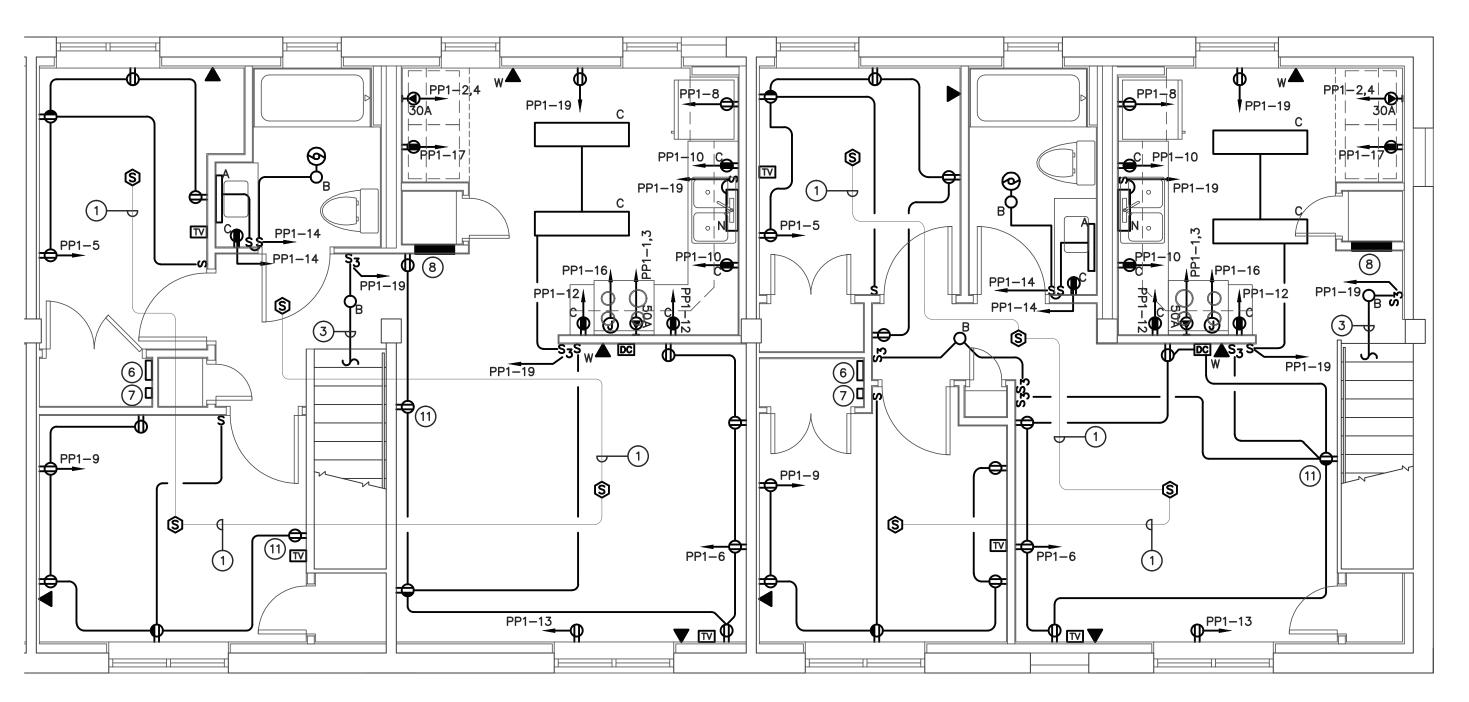




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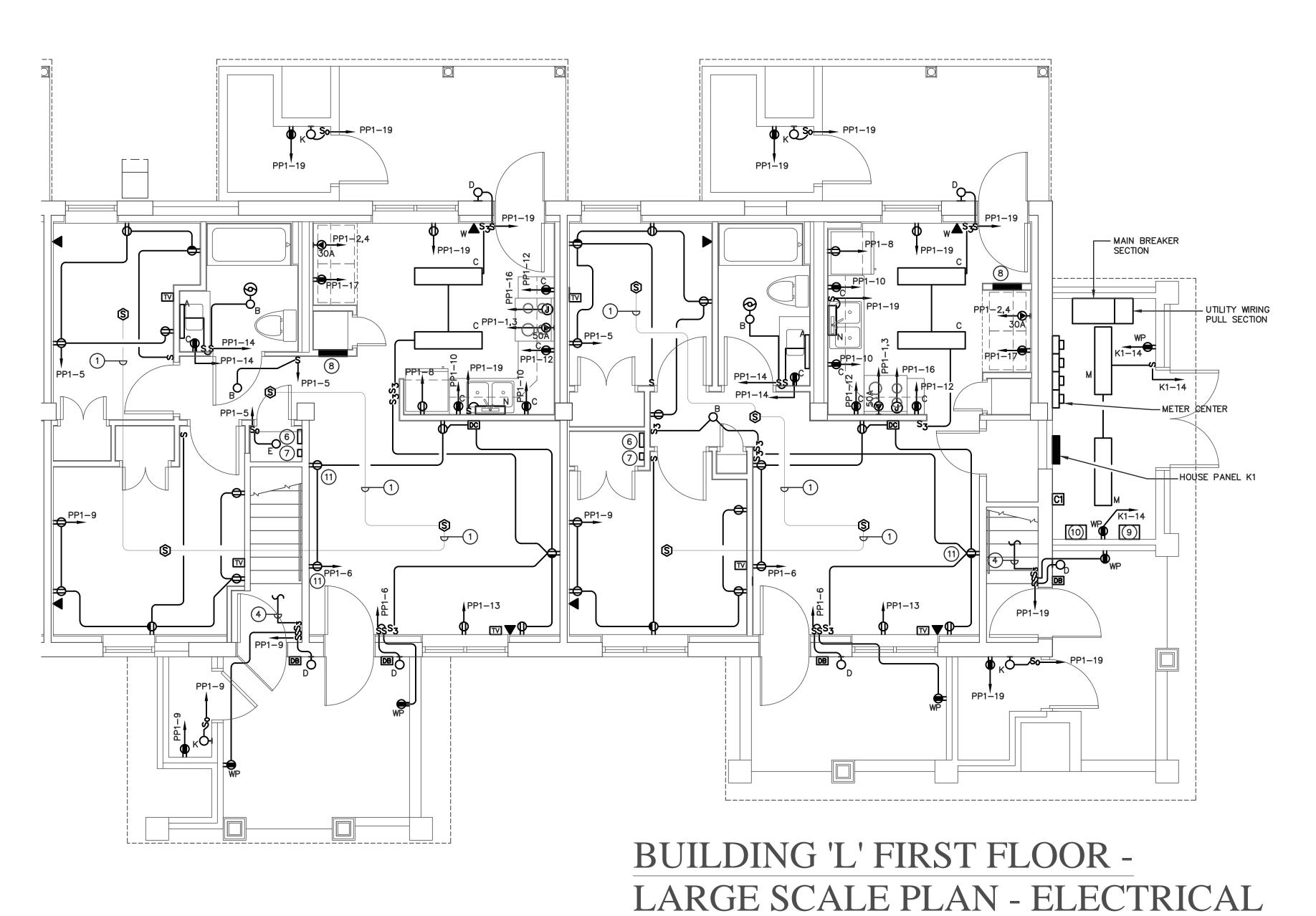
JOB NO. : 337-W11

- EVENT OF ACTIVATION FROM A SINGLE DETECTOR.
- PROVIDE TERMINATION CABINET WITH SPLITTERS FOR CABLE TV WIRING. PROVIDE A HOME RUN FROM EACH TV JACK OUTLET AND CONNECT TO SPLITTER IN CABINET.
- ELECTRICAL PANEL FOR APARTMENT. 120/240V, 1 PHASE 30 POLE.
- TELEPHONE SERVICE ENTRANCE EQUIPMENT COORDINATE REQUIREMENTS WITH TELEPHONE UTILITY PROVIDER.
- RECEPTACLES ON EXISTING STAIR WALL TO BE MOUNTED USING WIREMOLD.



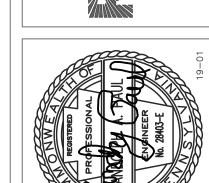
BUILDING 'L' SECOND FLOOR -LARGE SCALE PLAN - ELECTRICAL

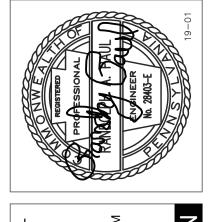
SCALE: 1/4'' = 1'-0''



PLAN NOTES:

- CONNECT 120 VOLT SMOKE DETECTOR UNSTITCHED
- COORDINATE FINAL LOCATIONS OF WIRING DEVICES PRIOR TO ROUGH-INS.
- DOWN TO 3-WAY SWITCH LOCATED AT ENTRANCE DOOR.
- UP TO LIGHT FIXTURE AT TOP OF STAIRS.
- PROVIDE SURFACE RACEWAY FROM FLOOR TO OUTLET BOX LOCATION WHERE DEVICES ARE LOCATED ON EXISTING WALL
- PROVIDE TERMINATION CABINET WITH PUNCH DOWN BLOCK FOR DATA/VOIVE CABLE. PROVIDE A HOME RUN FROM EACH TELEPHONE OUTLET AND TERMINATE ON TERMINAL BLOCK.
- ELECTRICAL PANEL FOR APARTMENT. 120/240V, 1 PHASE 30 POLE.
- CABLE TV SERVICE ENTRANCE EQUIPMENT. COORDINATE





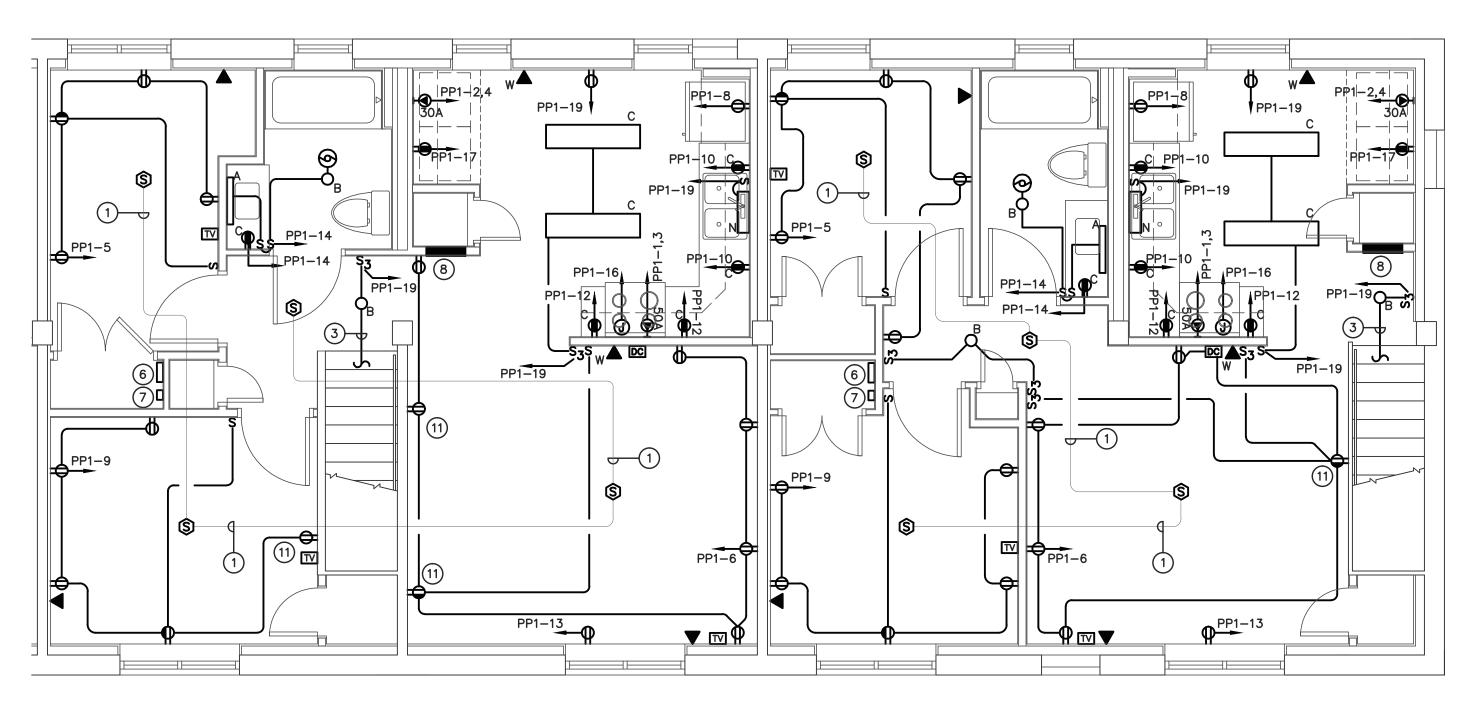
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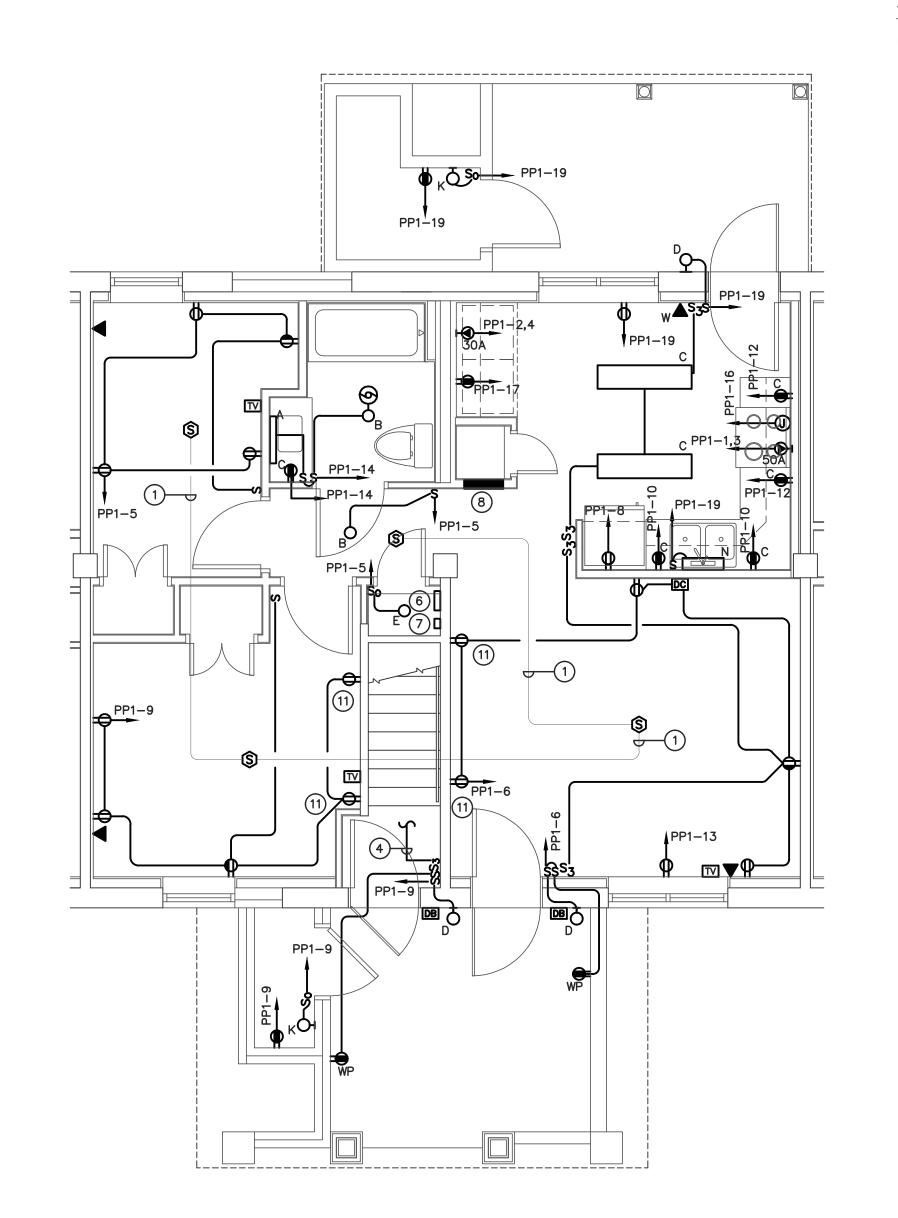
- TO CIRCUIT INDICATED. EXTEND THE INTERCONNECTION WIRING AS RECOMMENDED BY THE MANUFACTURER TO INITIATE LOCAL ALARMS ON ALL DETECTORS IN THE EVENT OF ACTIVATION FROM A SINGLE DETECTOR.
- CONSTRUCTION. FEED CIRCUIT WIRING FROM FLOOR BELOW.
- PROVIDE TERMINATION CABINET WITH SPLITTERS FOR CABLE TV WIRING. PROVIDE A HOME RUN FROM EACH TV JACK OUTLET AND CONNECT TO SPLITTER IN CABINET.

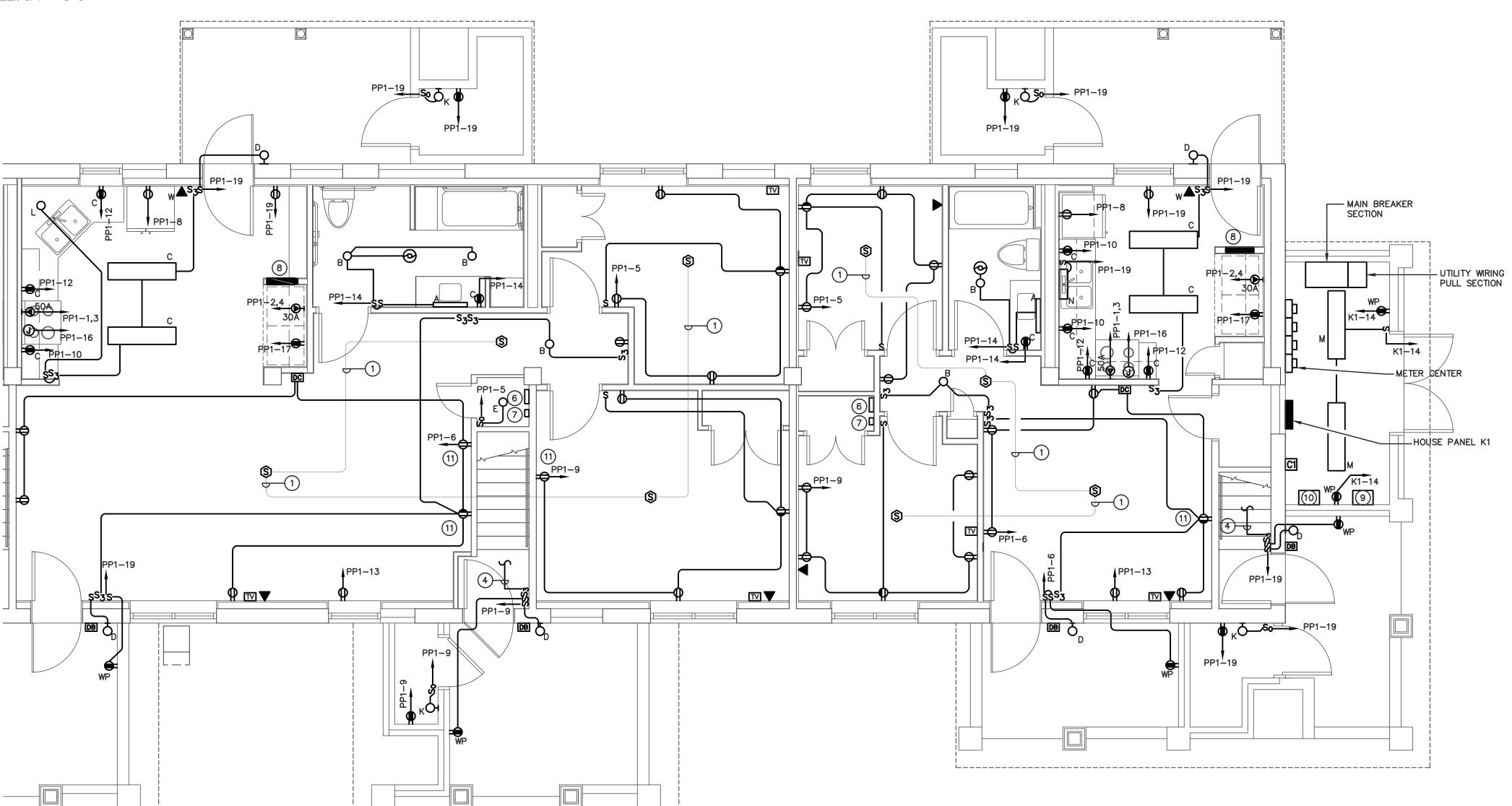
- REQUIREMENTS WITH CABLE TV UTILITY PROVIDER.
- TELEPHONE SERVICE ENTRANCE EQUIPMENT COORDINATE REQUIREMENTS WITH TELEPHONE UTILITY PROVIDER.
- RECEPTACLES ON EXISTING STAIR WALL TO BE MOUNTED USING WIREMOLD.



BUILDING 'M' SECOND FLOOR -LARGE SCALE PLAN - ELECTRICAL

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





BUILDING 'M' FIRST FLOOR -LARGE SCALE PLAN - ELECTRICAL

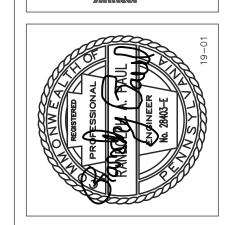
SCALE: 1/4" = 1'-0"

- 1) CONNECT 120 VOLT SMOKE DETECTOR UNSTITCHED TO CIRCUIT INDICATED. EXTEND THE INTERCONNECTION WRING AS RECOMMENDED BY THE MANUFACTURER TO INITIATE LOCAL ALARMS ON ALL DETECTORS IN THE EVENT OF ACTIVATION FROM A SINGLE DETECTOR.
- COORDINATE FINAL LOCATIONS OF WIRING DEVICES PRIOR TO ROUGH-INS.
- DOWN TO 3-WAY SWITCH LOCATED AT ENTRANCE DOOR.
- 4 UP TO LIGHT FIXTURE AT TOP OF STAIRS.
- PROVIDE SURFACE RACEWAY FROM FLOOR TO OUTLET BOX LOCATION WHERE DEVICES ARE LOCATED ON EXISTING WALL CONSTRUCTION. FEED CIRCUIT WIRING FROM FLOOR BELOW.
- PROVIDE TERMINATION CABINET WITH SPLITTERS FOR CABLE TV WIRING. PROVIDE A HOME RUN FROM EACH TV JACK OUTLET AND CONNECT TO SPLITTER IN CABINET.
- PROVIDE TERMINATION CABINET WITH PUNCH DOWN BLOCK FOR DATA/VOIVE CABLE. PROVIDE A HOME RUN FROM EACH
- TELEPHONE OUTLET AND TERMINATE ON TERMINAL BLOCK. ELECTRICAL PANEL FOR APARTMENT. 120/240V, 1 PHASE 30 POLE.
- CABLE TV SERVICE ENTRANCE EQUIPMENT. COORDINATE

REQUIREMENTS WITH TELEPHONE UTILITY PROVIDER.

- REQUIREMENTS WITH CABLE TV UTILITY PROVIDER. TELEPHONE SERVICE ENTRANCE EQUIPMENT COORDINATE
- RECEPTACLES ON EXISTING STAIR WALL TO BE MOUNTED USING WIREMOLD.







GENERAL NOTES:

- 1. REFER TO GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS, DIVISION 25, 26, 27 & DIVISION 28 AND ALL OTHER SPECIFICATION SECTIONS AND ALL DRAWINGS FOR REQUIREMENTS OF THE CONTRACT.
- 2. THIS CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO PROVIDE COMPLETE AND WORKING ELECTRICAL SYSTEMS WHETHER SPECIFIED OR IMPLIED.
- 3. ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, INCLUDING AMENDMENTS, AND ALL APPLICABLE STATE AND LOCAL CODES.
- 4. PROVIDE ALL REQUIRED NOTICES, OBTAIN AND PAY FOR ALL PERMITS, AND PAY ALL DEPOSITS AND FEES NECESSARY FOR THE INSTALLATION TESTS AND INSPECTION OF ALL WORK PROVIDED. UNDER THIS SPECIFICATION, TEST SHALL BE CONDUCTED AS REQUIRED BY THE REGULATIONS OF THE LOCAL AND STATE AUTHORITIES.
- 5. NOTHING CONTAINED IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS SHALL BE CONSTRUED TO BE IN CONFLICT WITH THE STATE OR LOCAL CODES, ORDINANCES OR REGULATIONS GOVERNING INSTALLATION OF THE WORK SPECIFIED HEREIN. ALL REGULATIONS OF PUBLIC BODIES HAVING AUTHORITY OVER THE CONDUCT OF THE WORK HEREBY INCORPORATED AND MADE A PART OF THESE SPECIFICATIONS. SHOULD ANY CHANGE IN THE DRAWINGS AND/OR SPECIFICATIONS BE REQUIRED TO CONFORM TO CODES, ORDINANCES, REGULATIONS OR LAWS MENTIONED ABOVE, THE ENGINEER SHALL BE NOTIFIED.
- 6. FAILURE TO MAKE AN ON-SITE INSPECTION PRIOR TO SUBMITTING A BID WILL NOT RELIEVE THIS CONTRACTOR FROM THE RESPONSIBILITIES OF PROPERLY ESTIMATING THE REQUIREMENTS OR COSTS OF SUCCESSFUL COMPLETION OF THE WORK NOR FROM THE RESPONSIBILITY FOR THE FAITHFUL PERFORMANCE OF THE PROVISIONS OF THIS CONTRACT
- 7. DO NOT SCALE THE DRAWINGS FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, DIMENSIONS, ETC. AT THE JOB SITE.
- 8. THE CONTRACTOR SHALL PROJECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND HIS NEW WORK DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLECT ON HIS PART OF THE CONTRACTOR OR HIS REPRESENTATIVE, OR BY THE ELEMENTS DUE TO NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVE, EITHER TO THE EXISTING WORK, OR TO HIS WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE AND TO THE PROFESSIONAL'S SATISFACTION.
- 9. ALL CUTTING, PATCHING, FINISHING AND PAINTING FOR THE PROPER INSTALLATION OF THE ELECTRICAL EQUIPMENT AND RACEWAYS SHALL BE DONE IN A NEAT WORKMANSHIP MANNER BY THE CONTRACTOR. ALL CUTTING SHALL BE KEPT TO AN ABSOLUTE MINIMUM CONSISTENT WITH THE REQUIREMENTS OF THE PROJECT. CUTTING, PATCHING AND FINISHING SHALL BE DONE BY WORKMAN SKILLED IN THIS TYPE OF WORK. ALL PATCHING SHALL BE DONE UTILIZING MATERIALS OF THE SAME QUALITY AND TEXTURE AS THE ADJACENT UNDISTURBED AREAS. ALL FINISHING AND PAINTING SHALL MATCH THE UNDISTURBED ADJACENT AREAS AND TO THE SATISFACTION OF THE OWNER
- 10. UPON COMPLETION OF THE ELECTRICAL WORK, THIS CONTRACTOR SHALL REMOVE ALL DIRT, FOREIGN MATERIALS, STAINS, FINGERPRINTS. ETC. FROM ALL LIGHTING FIXTURES, PANELS, PLATES, ADJACENT SURFACES, ETC. INSTALLED UNDER THIS PROJECT, AND SHALL LEAVE THE ELECTRICAL WORK IN SUCH A CONDITION THAT NO CLEANING BY THE OWNER IS REQUIRED.
- 11. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE PROFESSIONAL AND OWNER. ANY WORK FOUND BY THE PROFESSIONAL AND/OR THE OWNER TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED UNTIL APPROVAL OF THE PROFESSIONAL IS OBTAINED. ANY COST INVOLVED IN OBTAINING SAID APPROVAL SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
- 12. ANY REQUIRED INTERRUPTION OF ANY SERVICES SHALL BE DONE WITH THE APPROVAL OF AND AT THE CONVENIENCE OF THE OWNER.
- 13. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, REPAIR, REPLACE AND MAINTAIN IN SERVICE ANY UTILITIES, FACILITIES OR SERVICES (UNDERGROUND, OVER GROUND, INTERIOR OR EXTERIOR) DAMAGED, BROKEN, OR OTHERWISE RENDERED INOPERATIVE DURING THE COURSE OF CONSTRUCTION BY HIM OR HIS REPRESENTATIVES.
- 14. THE CONTRACTOR SHALL GUARANTEE THE COMPLETE INSTALLATION AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF TWO (2) YEARS FROM THE DATE OF THE FINAL ACCEPTANCE. THIS GUARANTEE SHALL BE BINDING REGARDLESS OF THE MANUFACTURER'S GUARANTEE AND THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ALL DEFECTIVE MATERIAL AND PARTS REGARDLESS OF CAUSE (EXCLUDING DEFECTS TRACEABLE TO IMPROPER MAINTENANCE OR MALICIOUS DESTRUCTION OR ACTS OF GOD AFTER THE SYSTEM HAS BEEN ACCEPTED BY THE OWNER.)
- 15. THE CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES TO PREVENT INTERFERENCES BETWEEN BEAMS, STRUCTURES, PIPING, DUCTWORK, ETC.

INSTALLATION REQUIREMENTS AND CLEARANCES:

1. INSTALL EQUIPMENT ALONG WITH CONTROL DEVICES AND ALL REPLACEABLE FITTINGS WITH SUFFICIENT CLEARANCE FOR OPERATION AND MAINTENANCE FUNCTIONS.

EXCAVATION AND BACKFILL

- 1. PROVIDE ALL EXCAVATION, BACKFILLING, SHORING, SAW CUTTING, SHEETING, PUMPING AND OTHER WORK INCIDENTAL TO THE INSTALLATION OF UNDERGROUND DUCT BANK FOR THIS PROJECT.
- 2. TRENCH DEPTHS SHALL BE A MINIMUM OF 36" BELOW GRADE UNLESS NOTED OTHERWISE.
- 3. BACKFILL SHALL BE MADE WITH CLEAN FILL, FREE FROM ROCKS, DEBRIS AND OTHER FOREIGN MATERIALS. BACKFILL SHALL BE DEPOSITED IN UNIFORM LAYERS NOT OVER 6" LIFT INTERVALS AND COMPACTED AT EACH LIFT.
- 4. EXCAVATION ADJACENT TO AND UNDER FOOTING AND FOUNDATIONS SHALL BE BACKFILLED SOLIDLY WITH 3000 PSI MINIMUM CONCRETE TO AN ELEVATION LEVEL WITH BOTTOM OF FOOTINGS AND FOUNDATIONS
- 5. ALL EXCAVATION MATERIAL REMAINING AFTER BACKFILLING OPERATION SHALL BE REMOVED FROM SITE.
- 6. ALL SURFACE AREAS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED IN A MANNER THAT IS ACCEPTED BY BOTH THE PROFESSIONAL AND OWNER.

ALTERATIONS TO EXISTING SYSTEMS AND DEMOLITION

- 1. THIS CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING WIRING, CONDUIT, DEVICES, LIGHTING, ELECTRICAL EQUIPMENT, ETC. FROM EXISTING BUILDINGS.
- 2. MATERIALS AND EQUIPMENT REMOVED AS PART OF THE DEMOLITION WORK UNDER THIS PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED PROMPTLY FROM THE PROJECT SITE. DISPOSAL SHALL BE IN ACCORDANCE WITH THE REGULATIONS OF THE AUTHORITIES AT THE DISPOSAL SITE. REFER TO SUMMARY OF WORK AND CONTRACT DOCUMENTS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
- 3. ANY EXISTING EQUIPMENT SCHEDULED TO BE RETAINED, AND LEFT DE-ENERGIZED BECAUSE OF REMOVAL OF EXISTING EQUIPMENT OR CIRCUITS, SHALL HAVE A NEW HOMERUN INSTALLED TO THE NEAREST PANEL AND CONNECTED TO A SPARE BREAKER OF REQUIRED SIZE.
- 4. ALL WORK SHALL BE PERFORMED AND SCHEDULED WITH THE OWNER'S REPRESENTATIVE. COORDINATE HOURS OF CONSTRUCTION THAT WILL NOT INTERFERE WITH NORMAL OCCUPIED OPERATIONS OF THE FACILITY.
- 5. PER SUMMARY SCOPE OF WORK DEMOLITION CONTRACTOR TO PROVIDE DEMOLITION OF EXISTING SYSTEMS. INDICATE AS SUCH ON THE DRAWINGS.

| .D. | DESCRIPTION | MANUF. | CAT. NO. | TYPE | LAMPS | MTG. | REMARKS |
|-----|--|---------------|--|--------------|-----------------|---------------------------------------|---------|
| A | LED WALL MOUNTED FIXTURE FIXTURE SHALL BE MANUFACT LITHONIA FMVCCL 12IN MVOLT | | BRUSHED NICKEL | 4"x12" | LED | SURFACE | NOTE 1 |
| В | LED SURFACE MOUNTED FIXTU FIXTURE SHALL BE MANUFACT NO. FMLRL-14 OR APPROVED | URED BY LITHO | NIA MODEL | 14" DIA | LED 24 WATT | SURFACE | NOTE 1 |
| С | LED CEILING MOUNTED FIXTUR FIXTURE SHALL BE MANUFACT RTLX4 24L D24 LP835 OR AF | URED BY LIITH | | 12"x48" | LED 2400 LUMENS | SURFACE | NOTE 1 |
| D | LED WALL MOUNTED FIXTURE, MANUFACTURED BY LITHONIA OR APPROVED EQUAL. | | | 10"x13" | 40LED 40W | WALL | |
| E | LED SURFACE MOUNTED FIXTU FIXTURE SHALL BE MANUFACT NO. FMLRL-11 OR APPROVED | URED BY LITHO | NIA MODEL | 11" DIA | LED | SURFACE | NOTE 1 |
| G | LED WALL MOUNTED FIXTURE. MANUFACTURED BY LITHONIA DBLXD OR APPROVED EQUAL. | | | 10' X 18" | LED 40K | WALL | |
| | | | | | | | |
| K | PORCELAIN LAMP SOCKET WITH BY PASS & SEYMOUR MODEL | | . FIXTURE SHALL BE MANUFACTURED PPROVED EQUAL. | | MINI TWIST CF14 | WALL MOUNT AT 5' ABOVE FINISHED FLOOR | NOTE 1 |
| L | LED SURFACE MOUNTED FIXTU FIXTURE SHALL BE AS MANUF MELANA 10 3/4" BRUSHED NI | ACTURED BY L | AMPS PLUS STYLE #13H37 OVED EQUAL. | 10 3/4" DIA. | LED 17 WATT | SURFACE | NOTE 1 |
| М | LED ROUGH SERVICE FIXTURE SHALL BE MANUFACTURED BY OR APPROVED EQUAL. | LITHONIA MOD | EL NO. VAP 39LED SYM | 8" x 48" | LED 39 WATTS | SURFACE | |
| N | LED UNDERCABINET FIXTURE. MANUFACTURED BY LITHONIA APPROVED EQUAL. | | | 2" x 24" | LED | MOUNT UNDER CABINET | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

NOTES

1. COORDINATE CEILING TYPES WITH ARCHITECTURAL DRAWINGS FOR MOUNTING.
2. OWNER MY SUBSTITUTE LIKE FIXTURES

SYMBOLS

| | NOTE 1 | | |
|-----------------------|--|----------------|---|
| | LIGHT FIXTURE, CEILING | STP | MANUAL STARTER W/ THERMAL OVERLOAD & PILOT LIGHT |
| | LIGHT FIXTURE W/ EMERGENCY | S _M | MANUAL STARTER W/O THERMAL OVERLOA |
| Θ Θ | LIGHT FIXTURE, WALL | © | PHOTOCELL CONTROL |
| S | SINGLE POLE SWITCH | DB | DOORBELL PUSHBUTTON |
| S ₂ | DOUBLE POLE SWITCH | DC | DOORBELL CHIME |
| S ₃ | THREE-WAY SWITCH | <u>—</u> | |
| S ₄ | FOUR-WAY SWITCH | | DISCONNECT SWITCH |
| SD | DIMMER SWITCH | | CONTACTOR |
| So | OCCUPANCY SENSOR SWITCH - WALL | | AC MAGNETIC STARTER |
| os | OCCUPANCY SENSOR SWITCH - CEILING | \square | COMBINATION STARTER/DISCONNECT |
| _ | | (| MOTOR |
| Ψ | DUPLEX RECEPTACLE C - MOUNTED ABOVE COUNTER | | JUNCTION BOX |
| | CL - CLOCK HANGER RECEPTACLE | F | FIRE ALARM PULL STATION |
| $oldsymbol{ar{\Psi}}$ | SPECIAL PURPOSE RECEPTACLE | -ÞĒ | FIRE ALARM HORN/STROBE |
| # | QUADRUPLEX RECEPTACLE |) DE | FIRE ALARM HORN |
| | GROUND FAULT INTERRUPTING RECEPTACLE WP — WEATHERPROOF | <u>-</u> | FIRE ALARM STROBE |
| φ | ISOLATED GROUND RECEPTACLE | (\$) | SMOKE DETECTOR |
| φ | DUPLEX RECEPTACLE - TOP HALF SWITCHED. | \oplus | HEAT DETECTOR |
| Ф | CEILING MOUNTED DUPLEX RECEPTACLE | (| DUCT DETECTOR |
| \square | FLOOR MOUNTED DUPLEX RECEPTACLE | - | HOMERUN TO PANEL INDICATED |
| ® | BLANK OUTLET | _ · · - | EMERGENCY LIGHTING CIRCUIT |
| ∇ | TELEPHONE OUTLET — ANALOG W — WALL PHONE OUTLET | | CIRCUIT UNDERGROUND OR UNDERFLOOR |
| lacksquare | TELEPHONE/DATA OUTLET | 4 • | ELECTRICAL PANELBOARD |
| • | DATA OUTLET | | EMERGENCY BATTERY PACK |
| TV | TELEVISION OUTLET WALL MOUNTED | • | REMOTE EMERGENCY HEAD |
| | | | EXIT SIGN |

NOTE:

1. THIS SYMBOL SCHEDULE IS TYPICAL. NOT ALL SYMBOLS MAY BE USED.

EXIT SIGN WITH EMERGENCY HEADS

ABBREVIATIONS

| Α | AMPERE |
|------------|--------------------------------|
| AB | ABOVE |
| AFF | ABOVE FINISHED FLOOR |
| ATS | AUTOMATIC TRANSFER SWITCH |
| C | CONDUIT |
| CKT | CIRCUIT |
| CPT | CONTROL POWER TRAMSFORMER |
| CT | CURRENT TRANSFORMER |
| CU | COPPER |
| C/B | CIRCUIT BREAKER |
| DISC | DISCONNECT |
| DN | DOWN |
| DS | DISCONNECT SWITCH |
| DWG | DRAWING |
| EBB | ELECTRICAL BASEBOARD |
| EC | ELECTRICAL CONTRACTOR |
| ETR | EXISTING TO REMAIN |
| EWC | ELECTRIC WATER COOLER |
| FU | FUSED |
| FDR | FEEDER |
| FDS | FUSED DISCONNECT SWITCH |
| FT | FEET |
| GC | GENERAL CONTRACTOR |
| GFI | GROUND FAULT INTERRUPTING |
| GND | GROUND |
| HC | HEATING CONTRACTOR |
| H-0-A | HAND-OFF-AUTO |
| HP | HORSEPOWER |
| HTR | HEATER |
| HUH | HORIZONTAL UNIT HEATER |
| IG | ISOLATED GROUND JUNCTION BOX |
| JB KW | KILOWATT |
| LTG | LIGHTING |
| MC | MECHANICAL CONTRACTOR |
| MTD | MOUNTED |
| MTR | MOTOR |
| MLO | MAIN LUG ONLY |
| Ø | PHASE |
| P | POLE |
| PC | PLUMBING CONTRACTOR |
| PNL | PANELBOARD |
| PWR | POWER |
| PH | PHASE |
| RGS | RIGID GALVANIZED STEEL CONDUIT |
| SW | SWITCH |
| TBB | TELEPHONE BACKBOARD |
| TV | TELEVISION |
| UNO | UNLESS NOTED OTHERWISE |
| V | VOLT |
| W | WATT OR WIRE |
| W/ | WITH |
| W/G | WITH GROUND |
| | WEATHER-PROOF |
| WP XFMR | TRANSFORMER |





DESIGN STUDIO

THORITY

LLIAM HOWARD DAY HENOVATIONS - BUILDING
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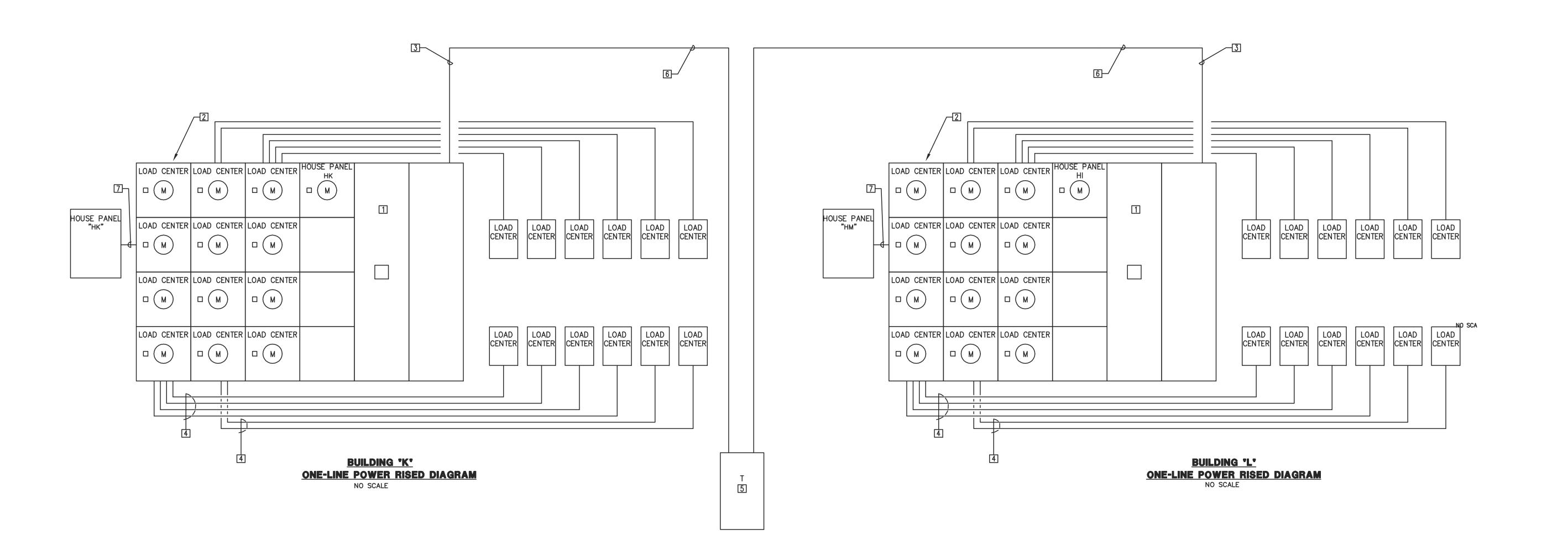
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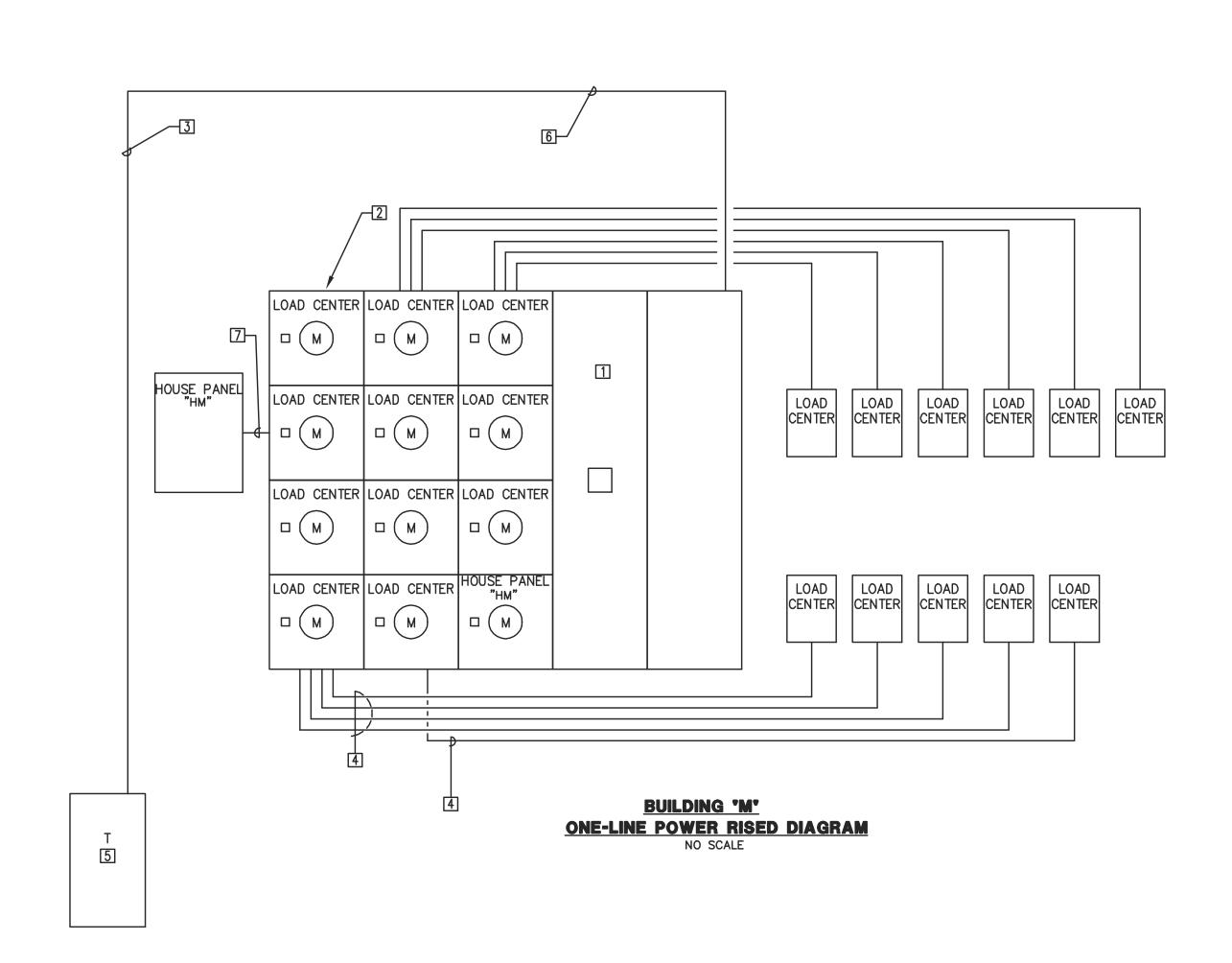


| | APA | ARTM | IENT | LC |]_ | n D | С | ENTE | IR F | P1 | |
|-------------|------------------------------|---------|----------|---------|-----|----------------|------|----------|---------|---------------------------|-------------|
| | PANEL: _=V _200_ AMP_BUS | | | | | | | | | OUNTED: REAKER MLO | |
| CIR. N□. | EQUIPMENT | BREAKER | FEEDER | Aø | AMF | PS Bø | | FEEDER | BREAKER | EQUIPMENT | CIR. N□. |
| 3 | ELECTRICAL RANGE | 50A-2P | 3#6 W/G | 18.3 10 | - | 18.3 | 10.4 | 3#10 W/G | 50A-2P | ELECTRICAL DRYER | 2 |
| 5 | RECEPTACLE BEDROOM | 20A-1P | 2#12 W/G | 7.5 6 | .0 | | | 2#12 W/G | 20A-1P | RECEPTACLE LIVING ROOM | 6 |
| 7 | ARC FAULT | | | • | | $\overline{/}$ | 12.5 | 2#12 W/G | 20A-1P | REFRIGERATOR | 8 |
| 9 | RECEPTACLE BEDROOM | 20A-1P | 2#12 W/G | 7.5 3 | 5.0 | | | 2#12 W/G | 20A-1P | RECEPTACLES KITCHEN | 10 |
| 11 | ARC FAULT | | | | | | 3.0 | 2#12 W/G | 20A-1P | RECEPTACLES KITCHEN | 12 |
| 13 | RECEPTACLE LVG RM AC UNIT | 20A-1P | 2#12 W/G | 12.5 5 | 8.8 | | | 2#12 W/G | 20A-1P | LIGHTING EXHAUST FAN BATH | 14 |
| 15 | SPARE | 20A-1P | | | | | 6.6 | 2#12 W/G | 20A-1P | RANGE HOOD | 16 |
| 17 | WASHER | 20A-1P | 2#12 W/G | 8.0 | | | | | 20A-1P | SPARE | 18 |
| 19 | LIGHTING | 20A-1P | 2#12 W/G | | | 4.2 | | | 20A-1P | SPARE | 20 |
| 21 | SPARE | 20A-1P | | | | | | | 20A-1P | SPARE | 22 |
| 23 | SPARE | 20A-1P | | | | | | | 20A-1P | SPARE | 24 |
| 25 | SPARE | 20A-1P | | | | | | | 20A-1P | SPARE | 26 |
| 27 | BUSSED SPACE | | | | | | | | | BUSSED SPACE | 28 |
| 29 | BUSSED SPACE | | | | | | | | | BUSSED SPACE | 30 |
| | ARC FAULT INTERRUPTER BREAKE | R | | 79.0 | | 55 | 5.1 | | | | |

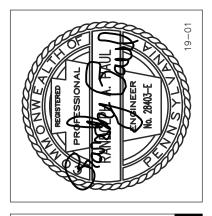
| HOUSE PANEL HK, HL, HM | | | | | | | | | | | |
|------------------------|---|---------|----------|-----|------|----------|------|----------|---------|------------------------------|-------------|
| | PANEL: HOUSE VOLTAGE: 120/240 PHASE: 1 NO. WIRE: 3 MOUNTED: SURFACE 125 AMP BUS & LUG 24 MIN. NO. POLES 125 AMP MAIN BREAKER MLO | | | | | | | | | | |
| CIR. N□. | EQUIPMENT | BREAKER | FEEDER | Aø | AM | PS Bø | | FEEDER | BREAKER | EQUIPMENT | CIR. ND. |
| 1 | LIGHTING EXTERIOR BUILDING | 20A-1P | 2#10 W/G | 3.3 | 9.8 | | | 2#10 W/G | 20A-1P | SUMP PUMP SP-1 | 2 |
| 3 | LIGHTING EXTERIOR BUILDING | 20A-1P | 2#10 W/G | | | 3.3 | 3.3 | 2#10 W/G | 20A-1P | LIGHT AND RECEPTACLE | 4 |
| 5 | CONTROL PANEL | 20A-1P | 2#10 W/G | 4.2 | 14.1 | | | 2#10 W/G | 30A-1P | CIRCULATING PUMP | 6 |
| 7 | - EXISTING EXHAUST FAN | 20A-2P | 3#8 W/G | | | 4.2 | 14.1 | 2#8 W/G | 30A-1P | CIRCULATING PUMP | 8 |
| 9 | | | | 4.2 | | | | | 20A-1P | SPARE | 10 |
| 11 | RECIRCULATING PUMP | 20A-1P | 2#10 W/G | | | 4.4 | | | 20A-1P | SPARE | 12 |
| 13 | SPARE | 20A-1P | | | 4.2 | | | 2#12 W/G | 20A-1P | UTILITY SHED LIGHT AND REC'S | 14 |
| 15 | SPARE | 20A-1P | | | | | | | | BUSSED SPACE | 16 |
| 17 | SPARE | 20A-1P | | | | | | | | BUSSED SPACE | 18 |
| 19 | SPARE | 20A-1P | | | | | | | | BUSSED SPACE | 20 |
| 21 | BUSSED SPACE | | | | | | | | | BUSSED SPACE | 22 |
| 23 | BUSSED SPACE | | | | | | | | | BUSSED SPACE | 24 |
| | | | | | 39.8 | | .7 | | | | |

PLAN NOTES:

- 1 PROVIDE 1000 AMP MAIN BREAKER AND METER CENTER IN ACCORDANCE WITH PPL REQUIREMENTS.
- 2 PROVIDE A 1000 AMP METER CENTER WITH 125 AMP METER BASES AND A 125A-2P MAIN BREAKER.
- 3 PROVIDE ALL TRENCHING, BACKFILLING AND CONDUITS REQUIRED FOR SECONDARY SERVICE TO MAIN BREAKER.
- 4 PROVIDE 3-# 1/0 AND 1-# 8 GROUND IN 2" CONDUIT AND TERMINATE IN LOAD CENTER IN EACH APARTMENT UNIT.
- 5 EXISTING GROUND MOUNTED TRANSFORMER. SITE VISIT AND VERIFY EXISTING LOCATION.
- 6 PROVIDE 2 SETS OF 3-#750KCMIL AND 1-#2/O GROUND IN 2-4" CONDUITS AND PRÖVIDE FINAL TERMINATIONS TO METER
- PROVIDE 3-#1 AND 1-#6 GROUND IN 1½" CONDUITS.



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