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PO BOX 1066
 NORTH WALES, PA 19445

Consultants:
DESIGN CONSTRUCTION GROUP
 800 WEST STATE ST
 SUITE 103
 DOYLESTOWN, PA 18901
 PHONE 215-500-8851

Project Name:
THE VILLAGE at STATION SQUARE

2618 NORTH BROAD STREET
 HATFIELD TWP, COLMAR, PA 18915

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Revisions:

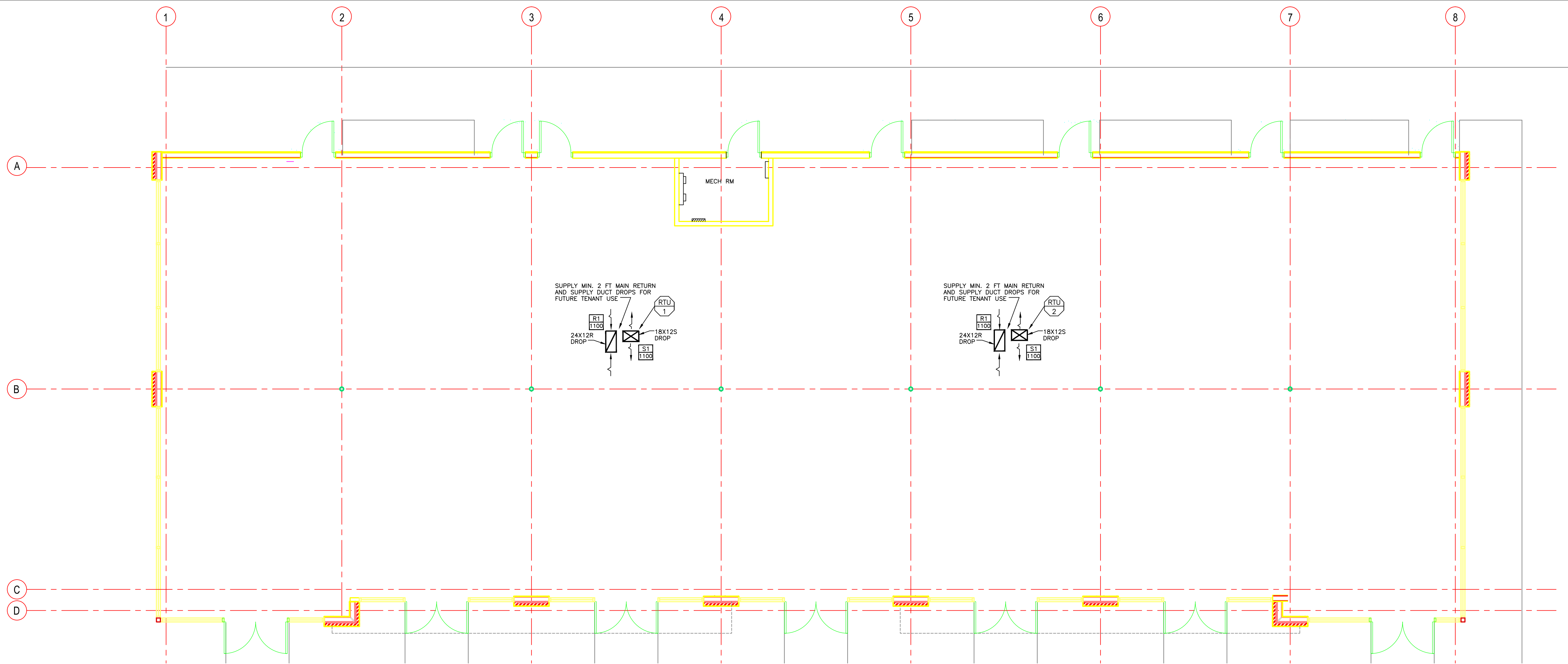
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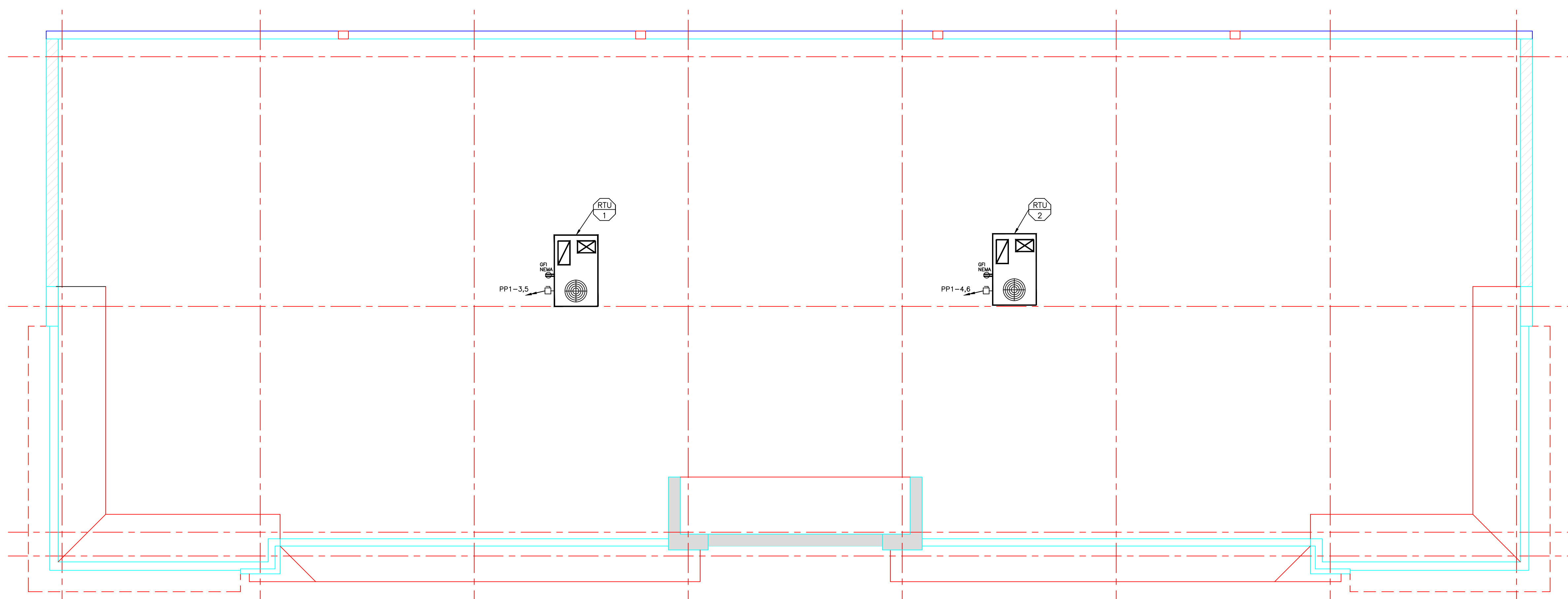
M-101

HVAC PLANS



1 HVAC PLAN
 SCALE: 3/16"=1'-0"

- LEGEND**
- SUPPLY AIR GRILLE (DOTS INDICATE DIRECTION OF BLOW)
 - RETURN AIR GRILLE
 - RETURN AIR DUCT
 - SUPPLY AND INSTALL TYPICAL ROUND CEILING REGISTER WITH VARIABLE DAMPER
 - FLEX DUCT (MAXIMUM 8' LENGTH)
 - VOLUME DAMPER
 - SUPPLY AIR DUCT
 - DIRECTIONAL AIR FLOW



2 ROOF PLAN
 SCALE: 3/16"=1'-0"

HVAC SPECIFICATIONS

SCOPE OF WORK

THE SCOPE OF MECHANICAL WORK INCLUDED IN THIS CONTRACT SHALL INCLUDE COMPLETE MECHANICAL SYSTEMS AND DROP DUCTWORK FOR FUTURE CONNECTION AT SITE. SUPPLY AND INSTALL ALL EQUIPMENT REQUIRED TO RESULT IN A COMPLETE INSTALLATION AND INTENDED OPERATION AND PERFORMANCE OF THE SYSTEM. VERIFY THE LOCATION AND DIMENSIONS OF NEW FURNACE AND CONDENSOR FOR SPACE REQUIREMENTS. VERIFY LOCATIONS WITH BUILDING OWNER.

GENERAL STANDARDS OF MATERIALS

EQUIPMENT AND MATERIALS, UNLESS SPECIFICALLY APPROVED OTHERWISE, SHALL BE NEW AND OF FIRST QUALITY, PROVIDED BY MANUFACTURERS WHO HAVE BEEN REGULARLY ENGAGED IN THE MANUFACTURE OF THESE PRODUCTS FOR A PERIOD OF NOT LESS THAN FIVE (5) YEARS.

MATERIALS FURNISHED SHALL BE DETERMINED SAFE BY A NATIONALLY RECOGNIZED TESTING ORGANIZATION, SUCH AS UNDERWRITERS' LABORATORIES, INC., OR FACTORY MUTUAL ENGINEERING CORPORATION, AND MATERIALS SHALL BE LABELED, CERTIFIED OR LISTED BY SUCH ORGANIZATIONS.

CODES, PERMITS AND INSPECTIONS

MATERIALS FURNISHED AND WORK INSTALLED SHALL COMPLY WITH THE INTERNATIONAL MECHANICAL CODE WITH THE NATIONAL FIRE CODES OF THE NATIONAL FIRE PROTECTION ASSOC. WITH THE REQUIREMENTS OF THE LOCAL UTILITIES COMPANIES, AND WITH THE REQUIREMENTS OF THE GOVERNMENTAL DEPARTMENTS OR AUTHORITIES HAVING JURISDICTION. MATERIALS AND EQUIPMENT FURNISHED FOR THE ELECTRICAL PORTION OF THE MECHANICAL SYSTEMS SHALL BEAR THE APPROVAL LABEL OF OR SHALL BE LISTED BY THE UNDERWRITERS' LABORATORIES, INC. ELECTRICAL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE.

QUIET OPERATION AND VIBRATION CONTROL

EQUIPMENT AND ASSOCIATED ITEMS SHALL OPERATE UNDER CONDITIONS OF LOAD WITHOUT SOUND OR VIBRATION DEEMED OBJECTIONABLE BY THE DESIGNER/ARCHITECT/OWNER. IN THE CASE OF MOVING EQUIPMENT, SOUND OR VIBRATION NOTICEABLE OUTSIDE OF THE ROOM IN WHICH IT IS INSTALLED, OR ANNOYINGLY NOTICEABLE WITHIN THE ROOM IN WHICH IT IS INSTALLED, SHALL BE DEEMED OBJECTIONABLE. SOUND OR VIBRATION DEEMED OBJECTIONABLE SHALL BE CORRECTED IN AN APPROVED MANNER AT NO EXTRA COST TO THE OWNER. VIBRATION CONTROL SHALL BE PROVIDED BY MEANS OF APPROVED VIBRATION ISOLATORS AND INSTALLED IN ACCORDANCE WITH THE ISOLATOR MANUFACTURERS' RECOMMENDATIONS.

ALL ROTATING MECHANICAL EQUIPMENT AND ITS ASSOCIATED PIPING AND DUCTWORK SHALL BE PROVIDED WITH VIBRATION ISOLATORS.

COMBINATION OF A NEOPRENE/SPRING HANGER

COORDINATION OF WORK

COORDINATE AND FURNISH TO THE OWNER, IN WRITING, ANY INFORMATION NECESSARY TO PERMIT THE WORK TO BE INSTALLED SATISFACTORILY AND WITH THE LEAST POSSIBLE INTERFERENCE OR DELAY. INCLUDE IN BID TO OWNER.

ACCESSIBILITY

LOCATE EQUIPMENT WHICH MUST BE SERVICED, OPERATED OR MAINTAINED IN FULLY ACCESSIBLE POSITIONS. EQUIPMENT REQUIRING ACCESS SHALL INCLUDE, BUT IS NOT NECESSARILY LIMITED TO, VALVES, VOLUME DAMPERS, TRAPS, CLEAN OUTS, MOTORS, FIRE DAMPERS, CONTROLLERS, SWITCH GEAR AND DRAIN POINTS.

ACCESS DOORS

GENERAL: FURNISH EACH ACCESS DOOR ASSEMBLY MANUFACTURED AS AN INTEGRAL UNIT. COMPLETE WITH ALL PARTS AND READY FOR INSTALLATION AS REQUIRED.

ELECTRICAL CONNECTIONS

PROVIDE TEMPERATURE CONTROL WIRING, INTERLOCK WIRING, AND EQUIPMENT CONTROL WIRING FOR ANY EQUIPMENT WORK NECESSARY UNDER THIS CONTRACT. ALL CONTROL WIRING SHALL BE 24 VOLT.

FURNISH ELECTRICAL DISCONNECT SWITCHES REQUIRED FOR ANY NEW/RELOCATED HVAC EQUIPMENT.

ALL POWER WIRING FROM PANEL TO DISCONNECT SWITCHES SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.

THE MECHANICAL CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT PROVIDED IS COMPATIBLE WITH THE ELECTRICAL/MECHANICAL SYSTEM BEING USED.

FURNISH FUSES (FOR INSTALLATION BY THE ELECTRICAL CONTRACTOR) FOR EQUIPMENT PURCHASED UNDER THE HVAC INSTALLATION CONTRACT.

DISCONNECT SWITCHES

PRODUCT: WESTINGHOUSE TYPES HF OR HU, GENERAL ELECTRIC TYPE TH, OR SQUARE "D" TYPE HU.

THERMOSTATS

PROGRAMMABLE THERMOSTATS SHALL BE HONEYWELL OR EQUAL WITH TIME PROGRAMMABLE AIR SETTINGS. THERMOSTATS SHALL PROVIDE AUTOMATIC CHANGE OVER FROM HEATING, COOLING, OCCUPIED, AND UNOCCUPIED SETTINGS.

OWNER TRAINING

PROVIDE A (1) HOUR TRAINING SESSION WITH OWNERS PERSONNEL AT COMPLETION OF THE JOB. NOTIFY THE OWNER IN WRITING AT LEAST (5) FIVE WORKING DAYS BEFORE SCHEDULING THE TRAINING.

CONTRACTOR SHALL PROVIDE THE OWNER WITH A COPY OF ALL INSTRUCTION MANUALS CONTAINING THE FOLLOWING:

-MANUFACTURER'S PARTS LIST, OPERATING INSTRUCTIONS, MAINTENANCE INSTRUCTIONS, TROUBLESHOOTING GUIDE, MANUFACTURER'S LITERATURE FOR ALL EQUIPMENT SUPPLIED, CONTROL DIAGRAMS AND WIRING DIAGRAMS.

DUCTWORK

DUCTWORK, FITTINGS, REINFORCEMENT, HANGERS, ETC., SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA. SIZES INSTALLED SHALL ACCOMADATE THE RECOMMENDED CFM DATA SHOWN. ALL DUCTWORK SHALL BE GALVANIZED STEEL WITH EXTERNAL INSULATION UNLESS NOTED OTHERWISE. FLEXIBLE DUCTWORK LENGTHS SHALL NOT EXCEED (8) EIGHT FEET. MATERIAL SHALL BE NFPA APPROVED. ALL DUCTWORK JOINTS SHALL BE PROPERLY SEALED WITH APPROVED SILICON SEALANT.

DIFFUSERS

DIFFUSERS SHALL BE FACTORY FABRICATED CONSTRUCTED OF STEEL OR ALUMINUM AND SHALL HAVE FIXED OR ADJUSTABLE AIR DISCHARGE PATTERN AS INDICATED.

DIFFUSER BORDER SHALL BE COORDINATED WITH CEILING GRID OR CEILING TO INSURE DIFFUSER SITS IN GRID FLUSH AND WITHOUT GAPS AROUND BORDER. COORDINATE ALL DIFFUSER FINISH COLORS WITH OWNER PRIOR TO RELEASE.

BALANCING DAMPERS

PROVIDE BALANCING DAMPERS AND MANUAL DAMPERS WHERE NECESSARY TO PROPERLY BALANCE THE AIR SYSTEM/SYSTEMS. CONSTRUCTION OF DAMPERS SHALL CONFORM TO SMACNA STANDARDS FOR THE INTENDED OPERATING PRESSURE RANGE.

FLEXIBLE CONNECTIONS

FAN AND AIR SUPPLY UNITS, BOTH AT INLET AND DISCHARGE, SHALL BE MADE WITH FLEXIBLE MATERIAL SO AS TO PROHIBIT THE TRANSFER OF VIBRATION FROM FANS TO CONNECTING DUCTWORK, WITHOUT AIR LEAKAGE. THE FLEXIBLE MATERIAL SHALL HAVE SUFFICIENT SLACK SO AS TO PREVENT TEARING DUE TO FAN MOVEMENT.

CFM BALANCING REPORTS

PROVIDE BALANCING OF THE MECHANICAL SYSTEMS AT THE COMPLETION OF THE JOB AS FOLLOWS:

--MEASURE MAIN AIR HANDLING UNIT FAN RPM; MOTOR VOLTAGE AND AMPERAGES; UNIT EXTERNAL STATIC PRESSURE. RECORD NAMEPLATE DATA. REPAIR ANY DEFICIENCIES.

--BALANCE EXISTING/NEW DEVICES UNDER THIS CONTRACT

--SYSTEMS SHALL BE CLEANED (IF DEEMED NECESSARY) AND IN CONTINUOUS OPERATION FOR 24 HOURS BEFORE BALANCING BEGINS

--THE DESIGNER, ENGINEER OR ARCHITECT SHALL BE NOTIFIED IN WRITING OF THE DATE AND TIME OF FINAL BALANCING AND TESTING ACTIVITIES. NOTIFICATION MUST BE RECEIVED AT LEAST 48 HOURS IN ADVANCE SO THAT THE ENGINEER/ARCHITECT CAN BE PRESENT IF HE SO WISHES. ALL AIR SYSTEMS SHALL BE BALANCED TO PROVIDE WITHIN 5% OF THE DESIGN AIR FLOW AT EACH OUTLET WITHOUT CAUSING OBJECTIONABLE NOISE.

HEATING AND A/C EQUIPMENT SCHEDULE

TAG NO	MANUFACTURER	UNIT	MODEL NO.	V/P/HZ	CFM	FLA	HEATING/COOLING		SIZE	REMARKS
							OUTPUT BTU	OUTPUT BTU		
RTU-1	CARRIER	ROOF TOP UNIT	48KCEA04D0_3	208V/1/60	1100	34	90,000	36,000	74"LX44WX42"H	
RTU-2	CARRIER	ROOF TOP UNIT	48KCEA04D0_3	208V/1/60	1100	34	90,000	36,000	74"LX44WX42"H	

NOTES: UNIT REQUIRES THE FOLLOWING ITEMS (FRESH AIR ECONOMIZER, ROOF CURB, FILTERS, RETURN AIR SMOKE DETECTOR) FRESH AIR INTAKE CALCULATIONS PER UNIT 5 CFM PER OCCUPANT (5CFM X 25 OCC = 125CFM), SET ECONOMIZER FOR 125CFM FRESH AIR

DIFFUSER/GRILLE LEGEND

SYMBOL	MANUFACTURER	MODEL NO.	SIZE	NECK SIZE	PATTERN	CFM RANGE	FRAMING
S1	TITUS/OR EQUAL	GRILLE	18"X12"	18"X12"	4-WAY	0-1100	DUCT CONNECTION
R1	TITUS/OR EQUAL	GRILLE	24"X12"	24"X12"	-	0-1100	DUCT CONNECTION

NOTES: ATTACH RETURN AND SUPPLY GRILLE TO END OF MAIN DUCT FOR FUTURE USE.



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HVAC SCHEDULES

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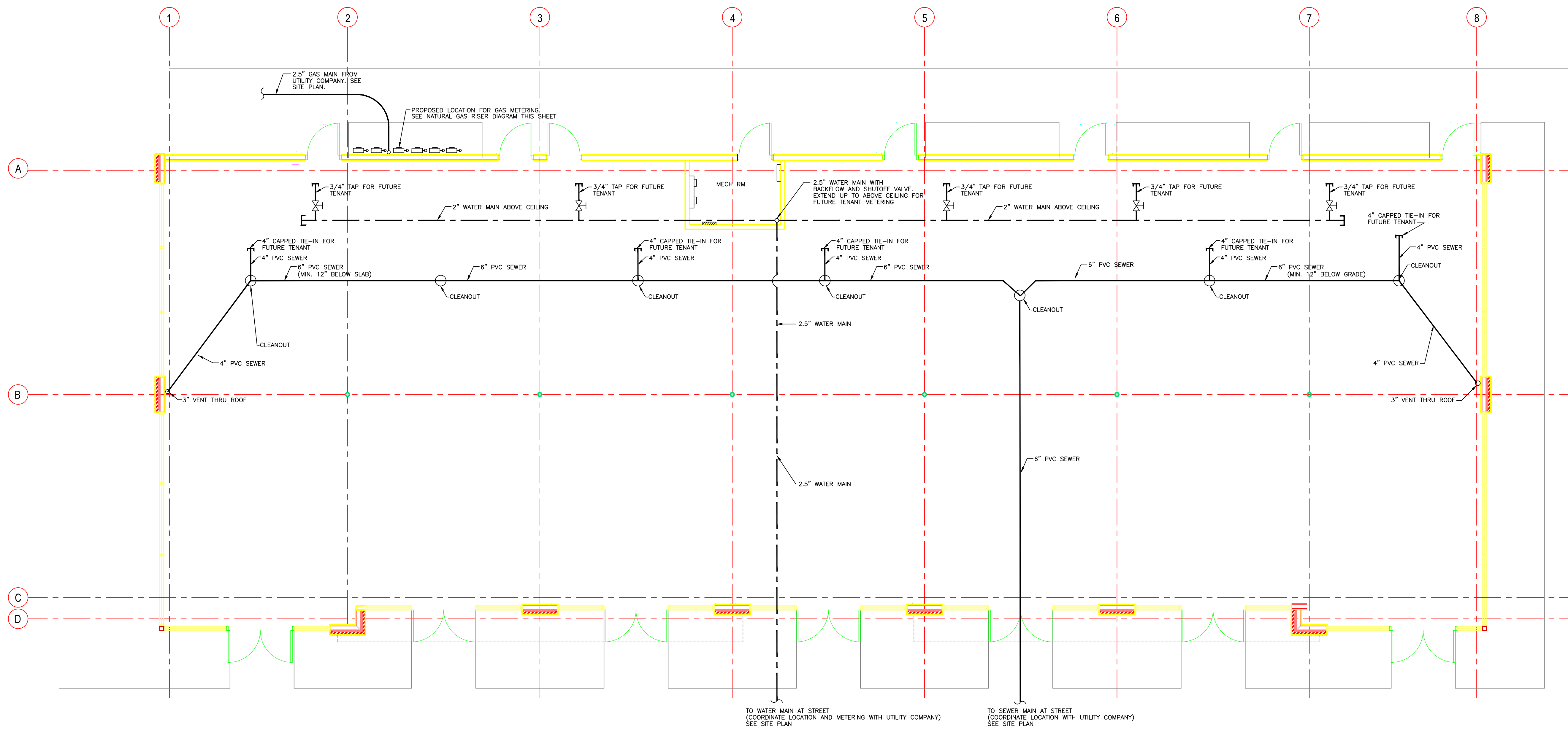
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PLUMBING PLAN



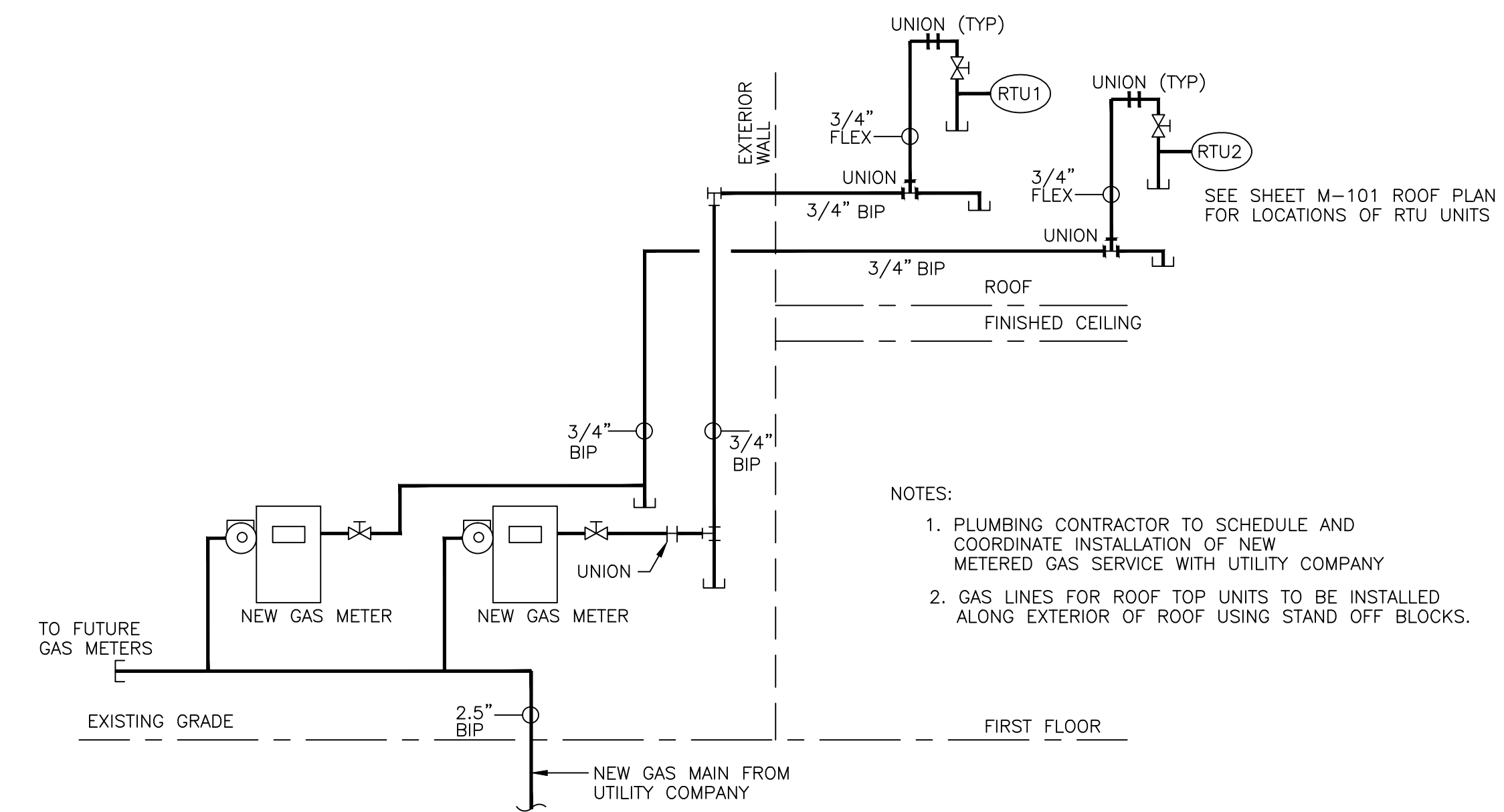
1 PLUMBING PLAN
SCALE: 3/16"=1'-0"

LEGEND

- | | | | |
|-------|----------------------|------|------------------------|
| --- | DOMESTIC COLD WATER | ○ | SANITARY TRAP |
| --- | DOMESTIC HOT WATER | CWU | COLD WATER UP (CITY) |
| --- | WASTE/SANITARY PIPE | CWD | COLD WATER DOWN (CITY) |
| -VTR- | VENT THROUGH ROOF | HWU | HOT WATER UP |
| -V- | VENT | HWD | HOT WATER DOWN |
| ⊥ | PIPE SIZE TRANSITION | CU | COPPER |
| ⊕ | CONNECT TO EXISTING | SAND | SANITARY LINE DOWN |
| --- | NEW PLUMBING | SANU | SANITARY LINE UP |
| --- | EXISTING PLUMBING | Ⓢ | FLOOR DRAIN |

PLUMBING NOTES

- THE PLUMBER WILL SUPPLY AND INSTALL A WATER PRESSURE REGULATOR ON INCOMING WATER SUPPLY. THE PLUMBER WILL SET THE REGULATOR NOT TO EXCEED 65 PSI.
- THE PLUMBER WILL SUPPLY AND INSTALL SEPARATE MANUAL SHUT-OFF VALVES ON ALL SINKS AND OUTLETS REQUIRING WATER.
- ALL SINKS AND FAUCETS WILL BE CONNECTED BY THE PLUMBER.
- ALL PIPES WILL BE CONCEALED WITHIN THE WALLS AND/OR THE FLOOR, UNLESS OTHERWISE NOTED ON DRAWINGS.
- THE PLUMBER WILL SEAL ALL PENETRATIONS THROUGH THE FLOOR WITH A FIRESTOP OR EQUIVALENT WATERPROOFING.
- ALL PIPES WILL BE FLUSHED CLEAR OF ALL DEBRIS BY THE PLUMBER.
- THE PLUMBER WILL PROVIDE AND INSTALL ALL WATER SAFETY DEVICES (i.e. CHECK VALVES, BACKFLOW PREVENTERS, ETC.) IN ACCORDANCE WITH LOCAL CODE.
- INSTALL MIN. 1" ARMOR FLEX INSULATION JACKET ON ALL DOMESTIC PIPING ABOVE CEILING.



2 NATURAL GAS RISER DIAGRAM
SCALE: N.T.S.

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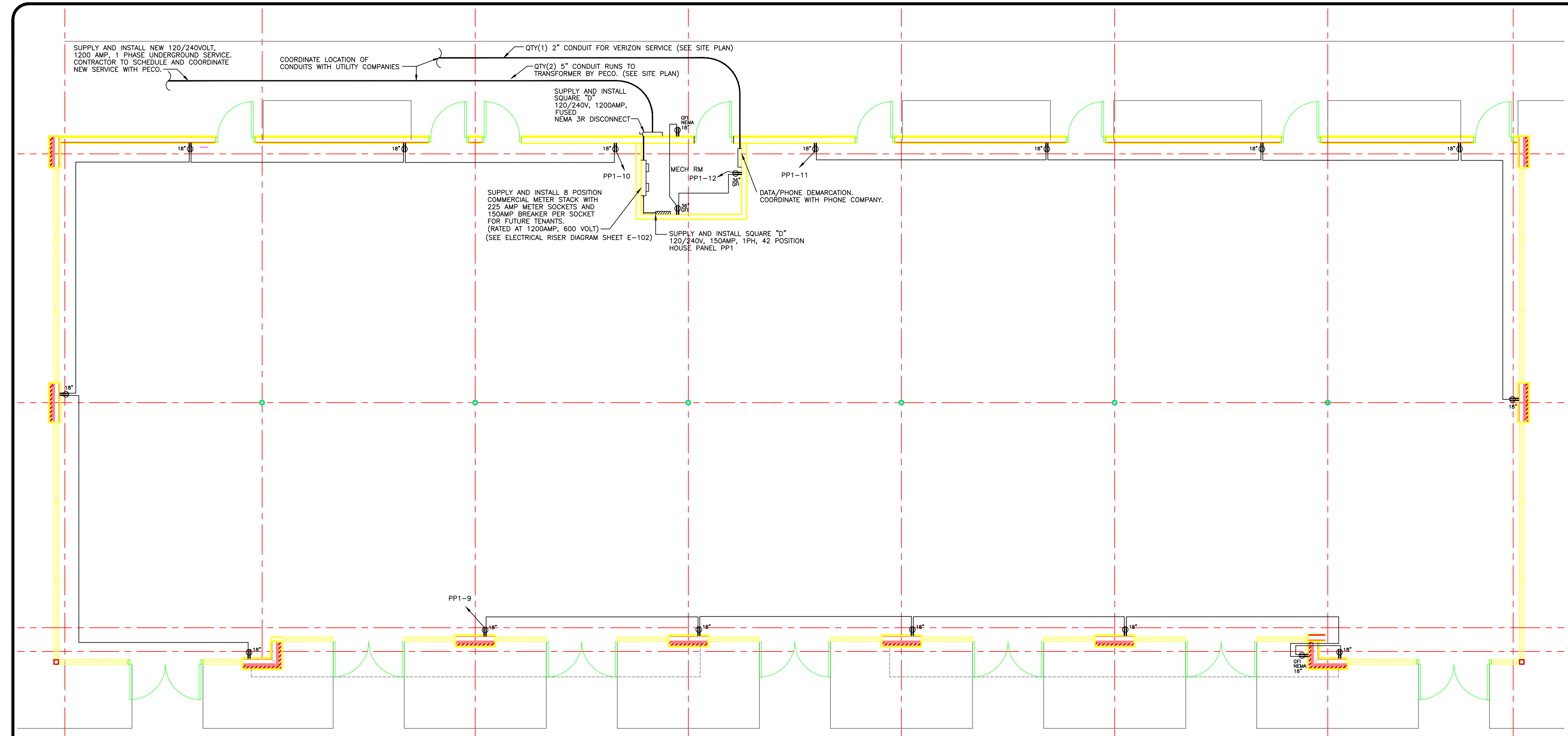
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POWER PLAN



- LEGEND**
- ⊖xx SINGLE RECEPTACLE, MTD. HEIGHT
 - ⊖+xx DUPLEX RECEPTACLE, MTD. HEIGHT
 - ⊖ EXISTING RECEPTACLE TO REMAIN
 - ⊖+xx DUPLEX RECEPTACLE, MTD. HEIGHT TOP OUTLET ON SWITCH
 - ⊖+xx 220 VOLT-SINGLE RECEPTACLE, MTD. HEIGHT
 - ⊖ SINGLE RECESSED FLOOR RECEPTACLE WITH METAL COVER PLATE
 - ⊖+xx DUPLEX RECESSED FLOOR RECEPTACLE WITH METAL COVER PLATE
 - ⊖+xx QUAD FLOOR RECEPTACLE WITH WHIP
 - ⊖+xx CABLE RECEPTACLE - PROVIDE 1" DIA. CONDUIT W/ PULL WIRES UP TO ABOVE CLG.
 - CONDUIT UP WALL THROUGH CEILING
 - ⊖ CONDUIT DOWN WALL THROUGH FLOOR
 - ⊖ JUNCTION BOX
 - ⊖ SINGLE WALL CASE BOX
 - ⊖ DISCONNECT BOX
 - ⊖+xx EXPOSURE BUTTON
 - ⊖ THERMOSTAT
 - ⊖ CIRCUIT TO PANEL
 - ⊖ WIRING, CONCEALED IN WALL OR CEILING
 - ⊖ WIRING, CONCEALED IN FLOOR
 - ⊖ CONDUIT, CONCEALED IN FLOOR
 - ⊖ TELEPHONE/DATA OUTLET W/ 1" CONDUIT UP TO CEILING SPACE. OUTLET 18" A.F.F.
 - ⊖ DATA OUTLET W/ WALL PLATE & 1" CONDUIT UP TO CEILING SPACE.
 - ⊖ STANDARD 110 V FLEX W/ 12" PIGTAIL CONTRACTOR TO CONFIRM HGT. A.F.F.
 - ⊖ EXHAUST FAN MOUNTED IN CEILING
 - ⊖ SINGLE POLE SWITCH
 - ⊖ 3 WAY OR 4 WAY SWITCH
 - ⊖ DIMMER SWITCH
 - ⊖ SWITCH W/ PILOT LAMP
 - ⊖ CONTINUOUS POWER CIRCUIT/NON SWITCHED

1 POWER PLAN
SCALE: 3/16"=1'-0"

ELECTRICAL NOTES

1. ALL EQUIPMENT WILL BE SINGLE PHASE UNLESS OTHERWISE NOTED.
2. ALL WIRING WILL BE CONCEALED WITHIN THE WALLS AND/OR FLOOR UNLESS OTHERWISE NOTED.
3. THE ELECTRICIAN WILL TAG ALL WIRES AT TERMINATION POINTS.
4. THE ELECTRICIAN WILL REMOVE ALL EXISTING RECEPTACLES AND SWITCHES IN THE AREA OF WORK EXCEPT WHERE NOTED ON THE PLAN. THE ELECTRICIAN WILL EITHER INSTALL A BLANK PLATE OVER RECEPTACLE OR SWITCH BOX OR REMOVE BOX ENTIRELY. THE ELECTRICIAN WILL TERMINATE WIRING AND CONDUIT IN A MANNER IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE.
5. IN THE EVENT OF ANY EQUIPMENT BEING RELOCATED TO ANOTHER LOCATION, ANY AND ALL CIRCUITS MUST BE TERMINATED BY THE ELECTRICIAN IN ACCORDANCE WITH LOCAL CODE. VERIFY RESPONSIBILITY WITH THE OWNER.
6. THE ELECTRICIAN WILL SEAL ALL PENETRATIONS THROUGH THE FLOOR WITH A FIRESTOP OR EQUIVALENT WATERPROOFING.
7. THE ELECTRICIAN WILL COMPLY WITH ALL INSPECTIONS, AS NOTED IN THE GENERAL NOTES ON THE FIRST PAGE OF THESE DOCUMENTS.
8. ALL ELECTRICAL SYSTEMS SHALL BE GROUNDED AS REQUIRED BY THE NATIONAL ELECTRICAL CODE AND ALL LOCAL AUTHORITIES HAVING JURISDICTION.
9. PROVIDE ALL DEVICES AND ACCESSORIES, ETC. WHERE NOTED ON DRAWINGS OR DIRECTED BY THE TENANT OR OWNER.
10. ALL CUTTING AND PATCHING SHALL BE BY THIS CONTRACTOR. CONTRACTOR SHALL INSURE ALL PATCHING WILL MATCH THE ADJACENT SURFACE.
11. PROVIDE A COMPLETE INSTALLATION INCLUDING DISCONNECT SWITCHES, PULLBOXES, EQUIPMENT AND WIRING AS INDICATED.
12. ALL WIRE SHALL BE STRANDED COPPER, TYPE THWN FOR SIZES SMALLER THAN #6 AWG, AND TYPE THW FOR SIZES #6 AWG AND LARGER. ALL TYPE THWN WIRE SHALL BE COLOR CODED ITS ENTIRE LENGTH BY MEANS OF COLORED INSULATION. ALL TYPE THW WIRE SHALL BE COLOR CODED BY MEANS OF COLORED TAPE APPLIED AT THE ENDS AND AT EVERY JUNCTION AND PULL BOX. CONDUITS INSTALLED INDOORS SHALL BE IN EMT EXCEPT AS NOTED.
13. TEST EQUIPMENT TO VERIFY THAT ITEMS ARE FREE FROM UNINTENDED GROUNDS, SHORT CIRCUITS AND OPEN CIRCUITS. FURNISH MATERIAL AND LABOR FOR MAKING TESTS AND CORRECTIONS NECESSARY TO OBTAIN PROPER OPERATION.
14. CONTRACTOR SHALL SUBMIT TO THE ARCHITECT MANUFACTURERS' CUT SHEETS FOR ALL EQUIPMENT.
15. ALL BRANCH CIRCUIT WIRING, DEVICES, JUNCTION BOXES, CONDUITS, PANELBOARDS, EQUIPMENT, ETC. SHALL BE GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
16. ALL WIRING SHALL BE SOFT-DRAWN COPPER, 98% CONDUCTIVITY, 600 VOLT RATING, THHN/THWN.
17. ALL COMMUNICATION WIRING SHALL BE PLENUM-RATED.
18. PROVIDE & INSTALL BUSHINGS AT ALL TERMINATIONS OF PANELS, JUNCTION BOXES, WIRING TROUGHES, EQUIPMENT, ETC.
19. ALL CONDUIT AND WIRE SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE.
20. PROVIDE & INSTALL STEEL SLEEVES FOR ALL RACEWAY AND CABLE PASSING THROUGH MASONRY AND CONCRETE WALLS, FLOORS, PARTITIONS, ETC.
21. THE CONTRACTOR SHALL COMPLY FULLY WITH THE NATIONAL ELECTRICAL CODE LATEST EDITION AND ALL CODES, ORDINANCES AND REQUIREMENTS OF THE AUTHORITIES WHO HAVE JURISDICTION OVER THIS PROJECT.
22. ALL PANELS SHALL BE UL LISTED, RATED AS SHOWN ON THE PLANS AND SCHEDULES AND SHALL BE MANUFACTURED BY G.E., SQUARE-D, CUTLER-HAMMER OR APPROVED EQUAL. PANELS SHALL HAVE CIRCUIT DIRECTORIES BEHIND CLEAR PLASTIC. ALL PANELS SHALL BE "LOAD CENTER" TYPE WITH PLUG-IN CIRCUIT BREAKERS.
23. ALL CIRCUIT BREAKERS SHALL BE OF THE SAME MANUFACTURE AS THE PANEL IN WHICH THEY ARE INSTALLED. CIRCUIT BREAKERS SHALL BE RATED FOR APPLIED VOLTAGE AND CURRENT AS INDICATED ON THE PLANS AND SCHEDULE. CIRCUIT BREAKERS IN LOAD CENTERS SHALL HAVE A MINIMUM INTERRUPTING CAPACITY OF 22,000 RMS SYMMETRICAL AMPERES AT 120/208 VOLTS.
24. ELECTRICAL OUTLETS & SWITCHES SHALL BE LEVITON DECORA. COLOR TO BE DETERMINED. ALL NEW SWITCHES, THERMOSTATS AND CONTROLS SHALL BE 48" MAX. A.F.F. TO TOP OF MOUNTING BOX.

NEW PANELBOARD SCHEDULE PP-1 (HOUSE PANEL)
150AMP, 120/240V, 1 PHASE, 2 WIRE/GRND
SURFACE MOUNT "SQUARE D" TYPE 1

NO.	DEMAND	LOAD SERVED	BKR.	WIRE	WIRE	BKR.	LOAD SERVED	DEMAND	NO.
1	1100	EXTERIOR LIGHTING	20/1	#12	#12	20/1	EMERGENCY LIGHTING	980	2
3	6400	RTU-1	50/2	#6	#6	50/2	RTU-2	6400	4
5				#6					6
7	1010	LITES GENERAL	20/1	#12	#12	20/1	LITES GENERAL	1010	8
9	1100	RECEPTACLES GENERAL	20/1	#12	#12	20/1	RECEPTACLES GENERAL	1100	10
11	1100	RECEPTACLES GENERAL	20/1	#12	#12	20/1	GFI RECEPTACLES	1000	12
13	-	BLANK	-	-	-	-	BLANK	-	14
15	-	BLANK	-	-	-	-	BLANK	-	16
17	-	BLANK	-	-	-	-	BLANK	-	18
19	-	BLANK	-	-	-	-	BLANK	-	20
21	-	BLANK	-	-	-	-	BLANK	-	22
23	-	BLANK	-	-	-	-	BLANK	-	24
25	-	BLANK	-	-	-	-	BLANK	-	26
27	-	BLANK	-	-	-	-	BLANK	-	28
29	-	BLANK	-	-	-	-	BLANK	-	30
31	-	BLANK	-	-	-	-	BLANK	-	32
33	-	BLANK	-	-	-	-	BLANK	-	34
35	-	BLANK	-	-	-	-	BLANK	-	36
37	-	BLANK	-	-	-	-	BLANK	-	38
39	-	BLANK	-	-	-	-	BLANK	-	40
41	-	BLANK	-	-	-	-	BLANK	-	42

LOAD CALCULATIONS PANEL "PP-1"

LOAD SERVICED	TOTAL VA	X DEMAND	= DEMAND VA
LIGHTING	4100	100%	4100 VA
RECEPTACLES	4300	100%	4300 VA
RECEPTACLES	-	50%	0 VA
-	-	100%	0 VA
-	-	20%	0 VA
MOTOR/EQUIPMENT	12800	100%	12800 VA
MOTOR/EQUIPMENT	0	50%	0 VA
TOTAL DEMAND			21200 VA
TOTAL AMPS			88 AMPS

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Project Name:
THE VILLAGE at
STATION SQUARE

2618 NORTH BROAD STREET
HATFIELD TWP, COLMAR, PA 18915

Project Info/Status:

- New Construction
- Design Phase
- Not For Construction
- For Pricing
- For Permit
- Revision
- For Construction

Revisions:

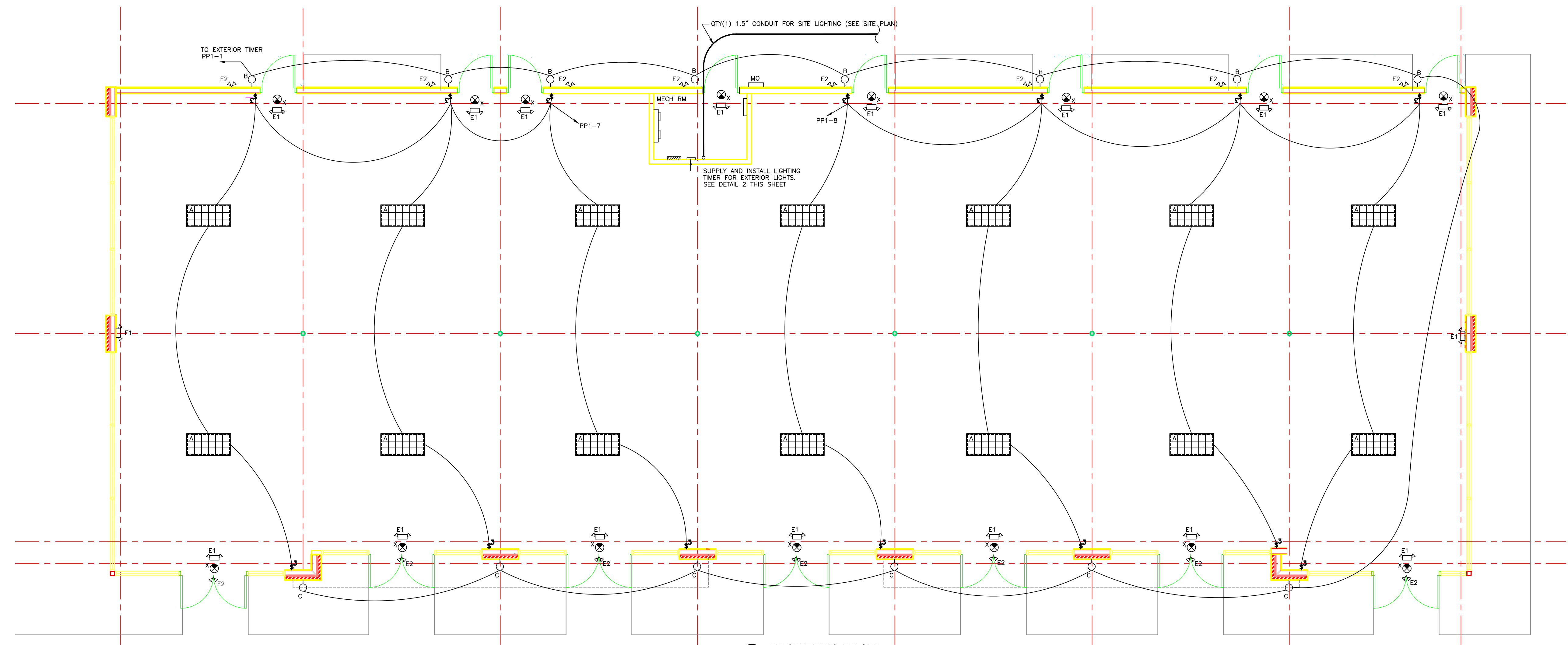
No.	Date	Description

Job No:
Drawn By: JRB
Checked By: TEH
Date: 08/10/21
Scale: AS NOTED

Drawing Title:

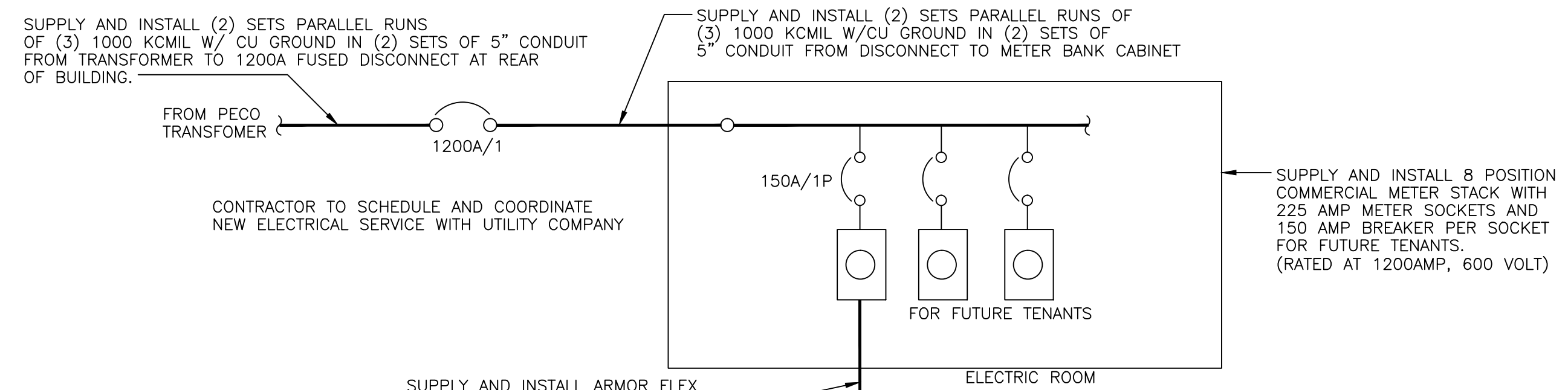
E-102

LIGHTING PLAN



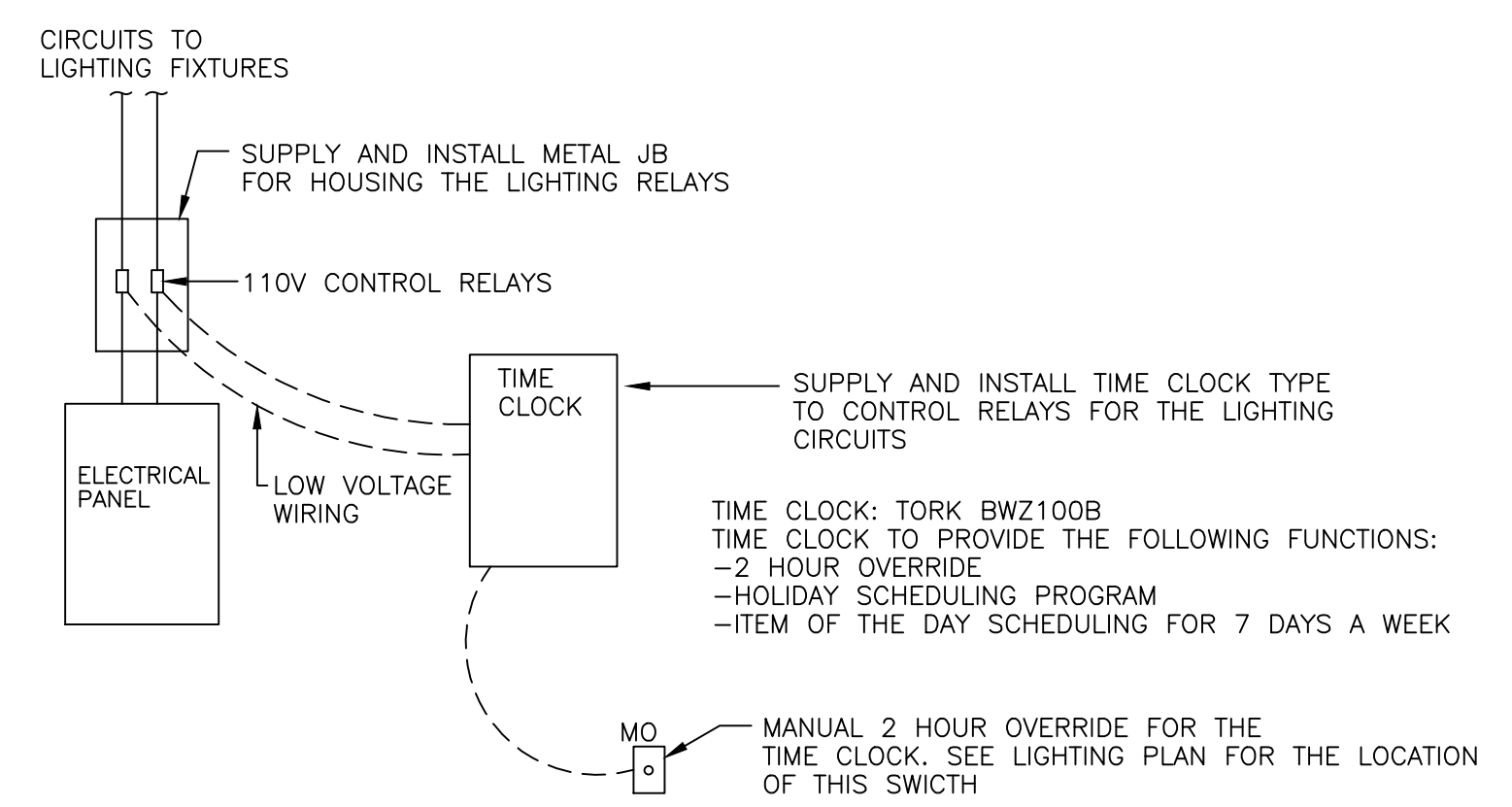
1 LIGHTING PLAN
SCALE: 3/16"=1'-0"

LIGHTING FIXTURE SCHEDULE							
TYPE	DESCRIPTION	MANUFACTURER	SPECIFICATIONS	LAMP QTY	TYPE	VOLTS	REMARKS
E1	EMERGENCY LIGHT W/BATTERY	LIGHTOLIER OR APPROVED EQUAL	E2150LH12W	2@12WATT	HALOGEN	120V/.36A	LEAD CALCIUM BATT 90 MINUTES WALL MOUNT
X	EXIT LIGHT W/ BATT DIRECTIONAL ARROW	LIGHTOLIER OR APPROVED EQUAL	LTNURW	LED	HIGH OUTPUT	120V/.25A	NI-CAD BATTERY 90 MINUTES SEE DETAIL 3
A	1'x4' SUSPENDED LED	LITHONIA OR APPROVED EQUAL	MSL4000LMSBC MVOLT	2@20WATT	LED	120V/.4A	DIRECT BLADE
C	EXTERIOR 8" WALL SCONCE	LIGHTOLIER OR APPROVED EQUAL	OLLWDLEDMVOLT6	1@10W	LED	120V/.40A	SINGLE GANG MOUNT PLATE
B	EXTERIOR 9" WALL SCONCE	LIGHTOLIER OR APPROVED EQUAL	OSCLE120PEBLM4	1@7W	LED	120V/.30A	SINGLE GANG MOUNT PLATE
E2	EXTERIOR DUAL HEAD EMERG	LIGHTOLIER OR APPROVED EQUAL	LLEF2SBZ20WF	2@20W	HALOGEN	120V/.40A	SINGLE GANG MOUNT PLATE



- NOTES:
- PROVIDE CU GROUND FROM 1200AMP METER BANK
 - CONTRACTOR TO SCHEDULE AND COORDINATE NEW ELECTRICAL SERVICE WITH UTILITY COMPANY

3 ELECTRICAL RISER DIAGRAM
SCALE: NTS



2 AUTO LIGHTING SETBACK/SHUT OFF
SCALE: NTS