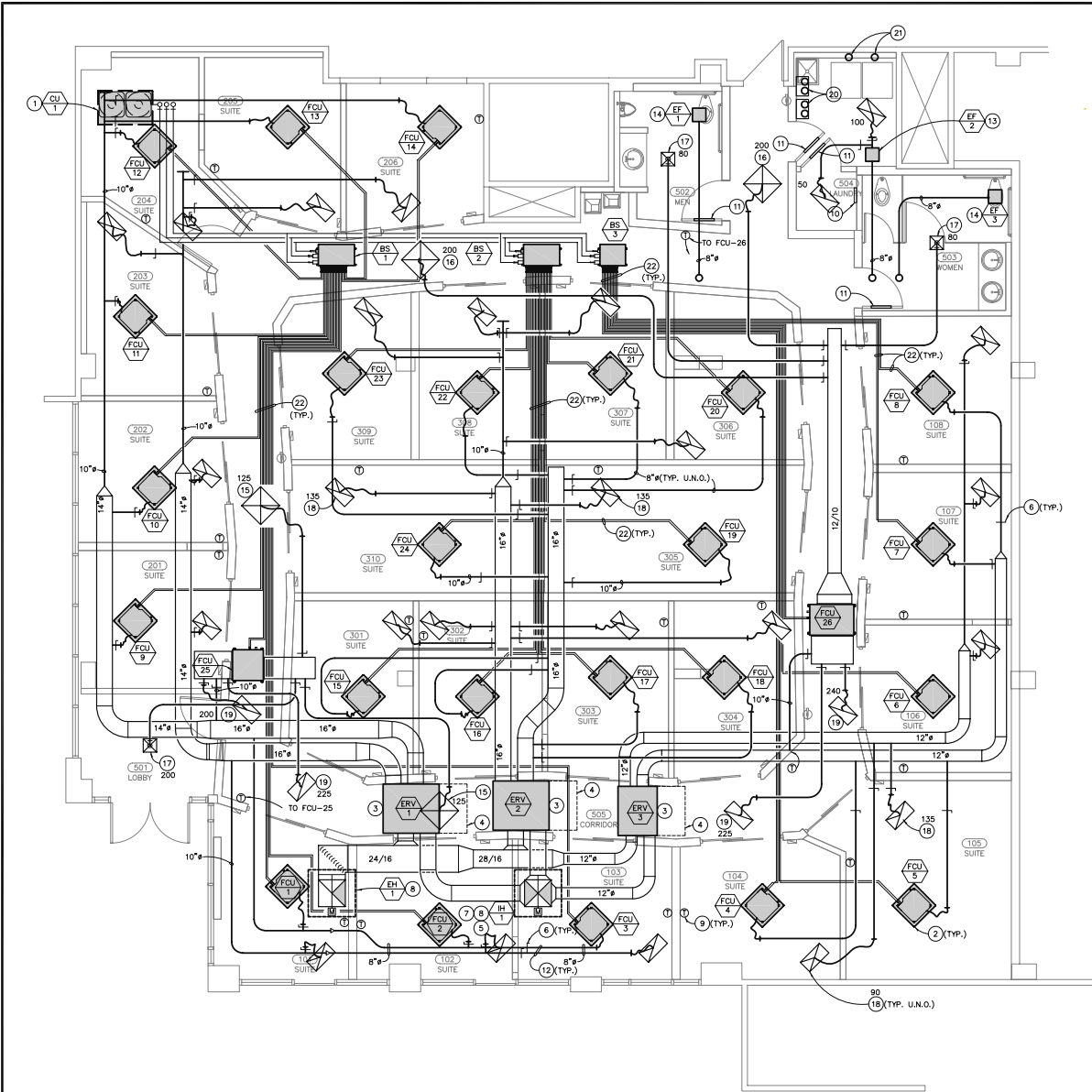


THIS DRAWING IS THE PROPERTY OF ARIZONA PINNACLE CONSULTING ENGINEERS, L.L.C. AND SHALL BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. ANY REUSE OF THIS DRAWING FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF ARIZONA PINNACLE CONSULTING ENGINEERS, L.L.C. IS STRICTLY PROHIBITED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND REGULATORY APPROVALS. THE CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND ADJUST TO ACTUAL FIELD CONDITIONS AT NO ADDITIONAL EXPENSE TO THE PROJECT.



Mechanical Plan
1/4" = 1' = 0"

GENERAL NOTES

- A. EXISTING CONDITIONS ARE BASED ON RECORD DRAWINGS PROVIDED BY THE OWNER AND/OR LIMITED FIELD VERIFICATION BY OTHERS. CONTRACTOR SHALL ADJUST TO ACTUAL FIELD CONDITIONS AT NO ADDITIONAL EXPENSE TO THE PROJECT.
- B. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR ANY EXTRA WORK DUE TO THE CONTRACTOR'S FAILURE TO VISIT THE PROJECT SITE PRIOR TO SUBMITTING THE BID. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER FOR RESOLUTION.
- C. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH DEMOLITION WORK PRIOR TO BIDDING AND START OF WORK. CONTRACTOR IS RESPONSIBLE TO DEMOLISH ALL EXISTING AS REQUIRED FOR INSTALLATION/ CONSTRUCTION OF NEW WORK.
- D. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE GOVERNMENT AND LOCAL CODES.
- E. MECHANICAL CONTRACTOR SHALL FIELD COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL POWER REQUIREMENTS.
- F. THE CONTRACTOR SHALL COOPERATE WITH THE OTHER TRADES SO THAT THE INSTALLATION OF ALL EQUIPMENT MAY BE PROPERLY COORDINATED.
- G. ALL EQUIPMENT FURNISHED SHALL FIT THE SPACE AVAILABLE WITH CONNECTIONS IN THE REQUIRED LOCATIONS AND WITH ADEQUATE SPACE FOR OPERATING AND SERVICING. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATE THE INTENT OF THE INSTALLATION WHILE THE SPECIFICATIONS AND EQUIPMENT LIST DENOTE THE TYPE AND QUALITY OF MATERIAL AND WORKMANSHIP TO BE USED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. WHERE A CONFLICT EXISTS BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER WHOSE DECISION SHALL BE FINAL. NO ALLOWANCE WILL BE MADE SUBSEQUENTLY IN THIS REGARD ON BEHALF OF THE CONTRACTOR AFTER AWARD OF CONTRACT.
- H. COORDINATE DUCT ROUTING AND HEIGHTS WITH GENERAL CONTRACTOR. VERIFY ALL CLEARANCES BEFORE STARTING WORK.
- I. THE CONTRACTOR SHALL INSTALL ALL PIPING, DUCTWORK AND EQUIPMENT AS REQUIRED TO CONFORM TO THE STRUCTURE. AVOID OBSTRUCTIONS, PRESERVE CEILING HEIGHTS AND HEADROOM AND MAKE ALL EQUIPMENT REQUIRING MAINTENANCE OR REPAIR ACCESSIBLE.
- J. ALL DUCT CONNECTIONS TO HVAC EQUIPMENT MUST BE MADE WITH FLEXIBLE CONNECTORS.
- K. DO NOT ATTACH ANYTHING TO DECK ABOVE. ATTACH TO STRUCTURE (i.e. BEAMS, JOISTS) ONLY. DUCT HANGERS SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES. ALL CONNECTIONS TO JOISTS SHALL BE MADE AT THE TOP CORNER.
- L. ALL DUCT DIMENSIONS INDICATED ARE CLEAR INSIDE DIMENSIONS. ALL SUPPLY AND UNTEMPERED OUTDOOR AIR DUCTWORK SHALL BE LINED WITH 1" ACOUSTICAL DUCT LINER WITHIN 10 FEET OF THE UNIT AND WRAPPED WITH 2" THICK FIRE RETARDANT FIBERGLASS WITH A REINFORCED ALUMINUM FOIL JACKET AND SHALL BE APPROVED FOR USE BY SMACNA AND NAIMA. RETURN AIR TRANSFER DUCTS AND RETURN DUCTWORK WITHIN 10 FEET OF THE UNIT SHALL BE LINED WITH 1" ACOUSTICAL DUCT LINER.
- M. PROVIDE REMOTE VOLUME DAMPER CONTROL MANUFACTURED BY YOUNG REGULATOR OR UNITED ENERTECH FOR DAMPERS LOCATED ABOVE INACCESSIBLE CEILING. LOCATE CONTROLLER ABOVE ACCESSIBLE CEILING LOCATIONS.
- N. TENANT'S CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIELD VERIFICATION OF ALL UTILITY RUNS/OR OTHER IMPROVEMENTS LOCATED ON THE PREMISES PRIOR TO BIDDING. TENANT'S CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ALL COSTS RELATING TO THE RELOCATION OF, DAMAGE TO, REPAIR OF ANY EXISTING UTILITY RUNS AND/OR IMPROVEMENTS WHICH ARE DAMAGED AS A RESULT OF TENANT'S WORK IN OR AROUND THE PREMISES.
- O. ALL ROOFING WORK SHALL BE PERFORMED BY LANDLORD'S APPROVED ROOFING CONTRACTOR AT TENANT'S EXPENSE, IF REQUIRED IN LEASE OR TENANT CRITERIA MANUAL.
- P. MECHANICAL CONTRACTOR SHALL PROVIDE TENANT WITH A WRITTEN ONE (1) YEAR MANUFACTURER'S WARRANTY ON ALL HVAC EQUIPMENT PROVIDED AND/OR INSTALLED. THE WARRANTY SHALL INCLUDE ALL LABOR, MATERIALS AND THREE (3) ROUTINE SERVICES INCLUDING FILTER CHANGES DURING ONE (1) YEAR PERIOD.
- Q. AT THE COMPLETION OF CONSTRUCTION AN NEBB, AABC OR TABS CERTIFIED AIR BALANCE REPORT SHALL BE SUBMITTED TO THE OWNER, ENGINEER, AND LANDLORD. THE BALANCING MUST BE COMPLETED BY AN INDEPENDENT, THIRD PARTY CONTRACTOR WITH NO TIES TO THE INSTALLING CONTRACTOR.

KEY NOTES

- 1. ROOFTOP OUTDOOR CONDENSING UNIT MOUNTED ON REWIRED SLEEPERS. FINAL LOCATION SHALL BE FIELD VERIFIED AND COORDINATED WITH ELECTRICAL CONTRACTOR.
- 2. INDOOR CEILING CASSETTE FAN COIL UNIT. COORDINATE DECORATIVE PANEL WITH LIGHTING AND FIRE PROTECTION LOCATIONS. AVOID OVERLAYING LIGHT FIXTURES WITH DECORATIVE PANEL.
- 3. NEW OUTSIDE AIR/EXHAUST ENERGY RECOVERY UNIT.
- 4. DASHED LINE INDICATES SERVICE AREA AND FILTER REPLACEMENT ACCESS.
- 5. THE OUTDOOR AIR INTAKE SHALL BE LOCATED WITH A MINIMUM OF 10'-0" FROM ANY PLUMBING VENT OR EXHAUST FAN OUTLET.
- 6. BALANCE OUTSIDE AIR AND EXHAUST GRILLE DAMPERS TO CFM'S INDICATED ON OUTDOOR AIR SCHEDULE.
- 7. PROVIDE 120 VAC, 2-POSITION, MOTORIZED ON/OFF AIR DAMPER IN OUTSIDE AIR HOOD.
- 8. INTAKE AND EXHAUST HOOD LOCATED ON ROOF. FIELD COORDINATE FINAL LOCATION.
- 9. WALL MOUNTED TEMPERATURE SENSOR (NAVIGATION REMOTE PANEL). PROVIDE NEW CONTROL WIRE TO/FROM CORRESPONDING FCU AND ITM (INTELLIGENT TOUCH MANAGER). COORDINATE FINAL LOCATIONS WITH ARCHITECT.
- 10. ITM (INTELLIGENT TOUCH MANAGER) HVAC SYSTEM CONTROLLER.
- 11. PROVIDE DOOR GRILLE IN DOOR, DG-1.
- 12. ROUTE DUCTWORK AS HIGH AS POSSIBLE.
- 13. EXHAUST FAN ABOVE CEILING. ROUTE 8" EXHAUST UP THRU ROOF TO ROOF VENT CAP. CONTRACTOR TO INSTALL EXHAUST ROOF VENT CAP AT A MINIMUM OF 10FT AWAY FROM NEW AND EXISTING OUTSIDE AIR INTAKES.
- 14. CEILING MOUNTED EXHAUST FAN. PROVIDE 8" EXHAUST DUCT UP THROUGH ROOF TO ROOF VENT CAP. CONTRACTOR TO INSTALL EXHAUST ROOF VENT CAP AT A MINIMUM OF 10FT AWAY FROM NEW AND EXISTING OUTSIDE AIR INTAKES.
- 15. CD-1 WITH 8" X 8" NECK. BALANCE TO CFM INDICATED.
- 16. CD-1 WITH 10" X 8" NECK. BALANCE TO CFM INDICATED.
- 17. CD-2 WITH 8" X 8" ROUND NECK. BALANCE TO CFM INDICATED. LOCATE BALANCING DAMPER OVER LAY-IN CEILING. FINAL CONNECTION FROM RIGID DUCT TO DIFFUSER NECK SHALL BE FLEX. MAX. 48" LONG FLEX CONNECTION.
- 18. EG-1 WITH 22" X 10" NECK. PROVIDE SQUARE TO 8" X 8" ROUND TRANSITION.
- 19. RG-1 WITH 22" X 10" NECK. PROVIDE SQUARE TO 12" X 12" TRANSITION.
- 20. 4" X 6" COMBUSTION AIR VENT AND 4" TYPE "B" GAS VENT FOR INSTANTANEOUS WATER HEATER. PIPE UP TO ROOF AND TERMINATE WITH A CONCENTRIC VENT CAP AND FLASH WATERTIGHT. MAINTAIN 10FT MINIMUM FROM ALL HVAC INTAKES. FIELD VERIFY EXISTING EQUIPMENT IN ORDER TO MAINTAIN MINIMUM CLEARANCES.
- 21. PROVIDE RIGID 4" DRYER VENT FROM DRYER UP THROUGH ROOF WITH ROOF/RAIN CAP. MAINTAIN 10FT MINIMUM FROM ALL HVAC INTAKES. FIELD VERIFY EXISTING EQUIPMENT IN ORDER TO MAINTAIN MINIMUM CLEARANCES. FOLLOW DRYER MANUFACTURERS VENTING INSTRUCTIONS. COORDINATE ROOF CAP PAINT COLOR WITH ARCHITECT.
- 22. VRF SYSTEM REFRIGERANT PIPING. REFER TO MANUFACTURERS RECOMMENDATIONS FOR PIPING SIZES.



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| Revisions | |
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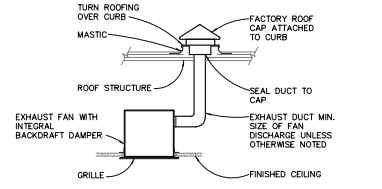
Mechanical Plan

THE CHAIRMAN & SENIOR VICE PRESIDENTS OF THE BOARD OF DIRECTORS OF THE NATIONAL ASSOCIATION OF ARCHITECTS, INC. HAVE REVIEWED THIS DOCUMENT AND HAVE CONSENTED TO THE PUBLICATION OF THIS DOCUMENT AS A STANDARD DETAIL FOR THE INDUSTRY. THE NATIONAL ASSOCIATION OF ARCHITECTS, INC. IS NOT PROVIDING ANY WARRANTY OR GUARANTEE FOR THE ACCURACY OR COMPLETENESS OF THIS DOCUMENT. THE USER OF THIS DOCUMENT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR VERIFYING THE ACCURACY AND COMPLETENESS OF THIS DOCUMENT. THE NATIONAL ASSOCIATION OF ARCHITECTS, INC. IS NOT PROVIDING ANY WARRANTY OR GUARANTEE FOR THE ACCURACY OR COMPLETENESS OF THIS DOCUMENT. THE USER OF THIS DOCUMENT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR VERIFYING THE ACCURACY AND COMPLETENESS OF THIS DOCUMENT.

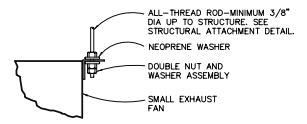
OUTDOOR AIR CALCULATION

| ROOM NUMBER | ROOM NAME | FCU NO. | AREA (FT ²) | OCCUPANT DENSITY (#/1000 FT ²) (Az) | CALCULATED OCCUPANT LOAD (Pa) | REQUIRED OUTDOOR AIR (CFM/OCC) (Rp) | REQUIRED OUTDOOR AIR (CFM/FT ²) (Ra) | CALCULATED OUTDOOR AIR (CFM) (Vbz) | Zone Outdoor Airflow Voz=Vbz/Ez (Ez = 1.0) | PROVIDED OUTDOOR AIR (CFM) | VENTILATION SERVED BY | EXHAUST RATE REQUIRED (CFM/ FT ²) | EXHAUST REQUIRED (0.6 CFM/ FT ²) | EXHAUST/ RELIEF SERVED BY | EXHAUST PROVIDED (CFM) | RETURN BALANCE CFM | ROOM SUPPLY CFM (Vpz) |
|-------------|---------------|---------|-------------------------|---|-------------------------------|-------------------------------------|--|------------------------------------|--|----------------------------|-----------------------|---|--|---------------------------|------------------------|--------------------|-----------------------|
| 101 | SUITE | 1 | 135 | 25 | 3 | 20 | 0.12 | 84 | 84 | 85 | | 0.6 | 81 | | 90 | 303 | 388 |
| 102 | SUITE | 2 | 135 | 25 | 3 | 20 | 0.12 | 84 | 84 | 85 | | 0.6 | 81 | | 90 | 303 | 388 |
| 103 | SUITE | 3 | 135 | 25 | 3 | 20 | 0.12 | 84 | 84 | 85 | | 0.6 | 81 | | 90 | 303 | 388 |
| 104 | SUITE | 4 | 135 | 25 | 3 | 20 | 0.12 | 84 | 84 | 85 | | 0.6 | 81 | | 90 | 303 | 388 |
| 105 | SUITE | 5 | 210 | 25 | 5 | 20 | 0.12 | 130 | 130 | 130 | | 0.6 | 126 | | 135 | 258 | 388 |
| 106 | SUITE | 6 | 135 | 25 | 3 | 20 | 0.12 | 84 | 84 | 85 | | 0.6 | 81 | | 90 | 303 | 388 |
| 107 | SUITE | 7 | 135 | 25 | 3 | 20 | 0.12 | 84 | 84 | 85 | | 0.6 | 81 | | 90 | 303 | 388 |
| 108 | SUITE | 8 | 135 | 25 | 3 | 20 | 0.12 | 84 | 84 | 85 | | 0.6 | 81 | | 90 | 303 | 388 |
| 201 | SUITE | 9 | 130 | 25 | 3 | 20 | 0.12 | 81 | 81 | 85 | | 0.6 | 78 | | 90 | 235 | 320 |
| 202 | SUITE | 10 | 130 | 25 | 3 | 20 | 0.12 | 81 | 81 | 85 | | 0.6 | 78 | | 90 | 235 | 320 |
| 203 | SUITE | 11 | 130 | 25 | 3 | 20 | 0.12 | 81 | 81 | 85 | | 0.6 | 78 | | 90 | 235 | 320 |
| 204 | SUITE | 12 | 135 | 25 | 3 | 20 | 0.12 | 84 | 84 | 85 | | 0.6 | 81 | | 90 | 235 | 320 |
| 205 | SUITE | 13 | 130 | 25 | 3 | 20 | 0.12 | 81 | 81 | 85 | | 0.6 | 78 | | 90 | 235 | 320 |
| 206 | SUITE | 14 | 120 | 25 | 3 | 20 | 0.12 | 74 | 74 | 85 | ERV'S 1,2&3 | 0.6 | 72 | ERV'S 1,2&3 | 90 | 235 | 320 |
| 301 | SUITE | 15 | 130 | 25 | 3 | 20 | 0.12 | 81 | 81 | 85 | | 0.6 | 78 | | 90 | 235 | 320 |
| 302 | SUITE | 16 | 130 | 25 | 3 | 20 | 0.12 | 81 | 81 | 85 | | 0.6 | 78 | | 90 | 235 | 320 |
| 303 | SUITE | 17 | 130 | 25 | 3 | 20 | 0.12 | 81 | 81 | 85 | | 0.6 | 78 | | 90 | 235 | 320 |
| 304 | SUITE | 18 | 130 | 25 | 3 | 20 | 0.12 | 81 | 81 | 85 | | 0.6 | 78 | | 90 | 235 | 320 |
| 305 | SUITE | 19 | 200 | 25 | 5 | 20 | 0.12 | 124 | 124 | 125 | | 0.6 | 120 | | 130 | 195 | 320 |
| 306 | SUITE | 20 | 130 | 25 | 3 | 20 | 0.12 | 81 | 81 | 85 | | 0.6 | 78 | | 90 | 235 | 320 |
| 307 | SUITE | 21 | 130 | 25 | 3 | 20 | 0.12 | 81 | 81 | 85 | | 0.6 | 78 | | 90 | 235 | 320 |
| 308 | SUITE | 22 | 130 | 25 | 3 | 20 | 0.12 | 81 | 81 | 85 | | 0.6 | 78 | | 90 | 235 | 320 |
| 309 | SUITE | 23 | 130 | 25 | 3 | 20 | 0.12 | 81 | 81 | 85 | | 0.6 | 78 | | 90 | 235 | 320 |
| 310 | SUITE | 24 | 200 | 25 | 5 | 20 | 0.12 | 124 | 124 | 125 | | 0.6 | 120 | | 130 | 195 | 320 |
| 501 | LOBBY | 25 | 90 | 30 | 5 | 5 | 0.12 | 24 | 24 | 25 | | 0 | - | | - | 425 | 450 |
| 505 | CORRIDOR/RR'S | 26 | 800 | 0 | 0 | 5 | 0.12 | 96 | 96 | 95 | | 0 | - | | - | 465 | 560 |
| TOTALS | | | 4,260 | | | | Voz = | 2,210 | 2,210 | 2,285 | | 0 | 2,022 | | 2,285 | | |

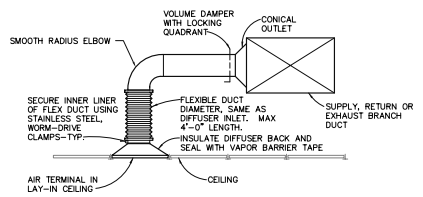
* CFM QUANTITIES ARE SHOWN FOR REFERENCE ONLY. REFER TO CFM'S NOTED ON SHEET M-1.0



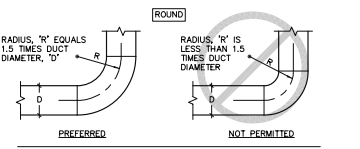
1 CEILING MOUNT EXHAUST FAN DETAIL
NTS



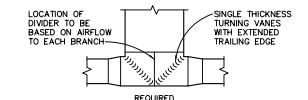
2 SMALL EXHAUST FAN MOUNTING DETAIL
NTS



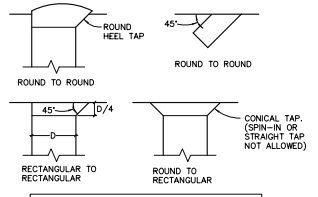
3 TYPICAL DIFFUSER CONNECTION DETAIL
NTS



4 DUCT ELBOW DETAIL
NTS



5 DUCT TEE DETAIL
NTS



6 DUCT TAP DETAIL
NTS

NOTE:
1. ALL DUCT TAPS SHALL BE AS ILLUSTRATED UNLESS SPECIFICALLY NOTED OTHERWISE.
2. ALL TAPS SHALL SLOPE IN THE DIRECTION OF AIR FLOW.



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M-2.0
SCHEDULES & DETAILS

SECTION 230000 - HVAC GENERAL CONDITIONS

PART 1 GENERAL

1.01 APPLICATION
A. THIS SECTION SUPPLEMENTS ALL SECTIONS OF THE SPECIFICATIONS...
1.02 DEFINITIONS
A. 'WORK' IS HEREBY DEFINED AS, 'THE CONSTRUCTION END SERVICES REQUIRED...'

1.03 EXECUTION STANDARDS
A. PERFORM WORK IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE...
1.04 PERMITS AND FEES
A. PERMITS, LICENSES, FEES, INSPECTIONS AND ARRANGEMENTS REQUIRED FOR THE WORK UNDER THIS CONTRACT SHALL BE OBTAINED BY THE CONTRACTOR...

1.05 CONTRACT DOCUMENTS
A. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN, FULLY UNDERSTAND, AND COORDINATE THE WORK WITH THE COMPLETE SET OF CONTRACT DOCUMENTS...
1.06 EXISTING CONDITIONS
A. VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK...

1.07 SUBMITTALS
A. SHOP DRAWINGS
1. FURNISH ARCHITECT SHOP DRAWING PORTFOLIOS CONTAINING NAMES OF MANUFACTURER AND CUT SHEETS OF EQUIPMENT TO BE USED ON THE PROJECT...

SECTION 230053 - TESTING AND BALANCING

PART 1 GENERAL

1.01 SECTION INCLUDES
A. TESTING, ADJUSTMENT, AND BALANCING OF AIR SYSTEMS.
1.02 SUBMITTALS
A. QUALIFICATIONS: SUBMIT NAME OF ADJUSTING AND BALANCING AGENCY AND TAB SUPERVISOR FOR APPROVAL WITHIN 30 DAYS AFTER AWARD OF CONTRACT...

1.03 WARRANTY
A. THE BALANCING CONTRACTOR SHALL BE REPAIRED TO RETURN TO THE TAB AT NO ADDITIONAL COST TO RE-ADJUST AIR QUANTITIES AS REQUIRED TO CORRECT TEMPERATURES, PRESSURES, ELIMINATE DRAFTS AND OBSTRUCTIVE NOISES DURING THE FIRST YEAR OF ACCEPTANCE OF THE FINAL BALANCING REPORT.

PART 2 PRODUCTS - NOT USED
3.01 GENERAL REQUIREMENTS
A. THE BALANCING CONTRACTOR SHALL BE REPAIRED TO RETURN TO THE TAB AT NO ADDITIONAL COST TO RE-ADJUST AIR QUANTITIES AS REQUIRED TO CORRECT TEMPERATURES, PRESSURES, ELIMINATE DRAFTS AND OBSTRUCTIVE NOISES DURING THE FIRST YEAR OF ACCEPTANCE OF THE FINAL BALANCING REPORT.

PART 3 EXECUTION
3.01 COORDINATION OF WORK
A. EXAMINE THE CONTRACT DOCUMENTS AS A WHOLE FOR THE WORK OF OTHER TRADES, COORDINATE ALL WORK ACCORDINGLY.
3.02 EXAMINATION
A. VERIFY ALL MEASUREMENTS ARE AS INDICATED ON THE DRAWINGS.

SECTION 230054 - TESTING AND BALANCING FOR HVAC

PART 1 GENERAL

1.01 SECTION INCLUDES
A. TESTING, ADJUSTMENT, AND BALANCING OF AIR SYSTEMS.
1.02 SUBMITTALS
A. QUALIFICATIONS: SUBMIT NAME OF ADJUSTING AND BALANCING AGENCY AND TAB SUPERVISOR FOR APPROVAL WITHIN 30 DAYS AFTER AWARD OF CONTRACT...

1.03 WARRANTY
A. THE BALANCING CONTRACTOR SHALL BE REPAIRED TO RETURN TO THE TAB AT NO ADDITIONAL COST TO RE-ADJUST AIR QUANTITIES AS REQUIRED TO CORRECT TEMPERATURES, PRESSURES, ELIMINATE DRAFTS AND OBSTRUCTIVE NOISES DURING THE FIRST YEAR OF ACCEPTANCE OF THE FINAL BALANCING REPORT.

PART 2 PRODUCTS - NOT USED
3.01 GENERAL REQUIREMENTS
A. THE BALANCING CONTRACTOR SHALL BE REPAIRED TO RETURN TO THE TAB AT NO ADDITIONAL COST TO RE-ADJUST AIR QUANTITIES AS REQUIRED TO CORRECT TEMPERATURES, PRESSURES, ELIMINATE DRAFTS AND OBSTRUCTIVE NOISES DURING THE FIRST YEAR OF ACCEPTANCE OF THE FINAL BALANCING REPORT.

PART 3 EXECUTION
3.01 EXAMINATION
A. THE DEMOLITION WORK INDICATED ON THE DRAWINGS IS INTENDED BE REPAIR TO EXISTING EQUIPMENT AND UTILITIES. REMOVE ALL ITEMS SHOWN HATCHED ON THE DRAWINGS INCLUDING MISCELLANEOUS APPLIANCES AND ACCESSORY ITEMS.

SECTION 230548 - VIBRATION AND SEISMIC CONTROLS FOR HVAC PIPING AND EQUIPMENT

PART 1 GENERAL

1.01 SECTION INCLUDES
A. VIBRATION ISOLATORS.
1.02 SUBMITTALS
A. PRODUCT DATA: PROVIDE SCHEDULE OF VIBRATION ISOLATOR TYPE WITH OWNER AND LOAD ON EACH.

1.03 WARRANTY
A. THE BALANCING CONTRACTOR SHALL BE REPAIRED TO RETURN TO THE TAB AT NO ADDITIONAL COST TO RE-ADJUST AIR QUANTITIES AS REQUIRED TO CORRECT TEMPERATURES, PRESSURES, ELIMINATE DRAFTS AND OBSTRUCTIVE NOISES DURING THE FIRST YEAR OF ACCEPTANCE OF THE FINAL BALANCING REPORT.

PART 2 PRODUCTS - NOT USED
3.01 GENERAL REQUIREMENTS
A. THE BALANCING CONTRACTOR SHALL BE REPAIRED TO RETURN TO THE TAB AT NO ADDITIONAL COST TO RE-ADJUST AIR QUANTITIES AS REQUIRED TO CORRECT TEMPERATURES, PRESSURES, ELIMINATE DRAFTS AND OBSTRUCTIVE NOISES DURING THE FIRST YEAR OF ACCEPTANCE OF THE FINAL BALANCING REPORT.

PART 3 EXECUTION
3.01 INSTALLATION
A. IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
B. ON DOSEE SPRING ISOLATORS, ADJUST SIDE STABILIZERS ARE TO BE SET TO CORRECT TEMPERATURES, PRESSURES, ELIMINATE DRAFTS AND OBSTRUCTIVE NOISES DURING THE FIRST YEAR OF ACCEPTANCE OF THE FINAL BALANCING REPORT.

SECTION 230583 - TESTING AND BALANCING

PART 1 GENERAL

1.01 SECTION INCLUDES
A. TESTING, ADJUSTMENT AND BALANCING OF AIR SYSTEMS.
1.02 SUBMITTALS
A. QUALIFICATIONS: SUBMIT NAME OF ADJUSTING AND BALANCING AGENCY AND TAB SUPERVISOR FOR APPROVAL WITHIN 30 DAYS AFTER AWARD OF CONTRACT...

1.03 WARRANTY
A. THE BALANCING CONTRACTOR SHALL BE REPAIRED TO RETURN TO THE TAB AT NO ADDITIONAL COST TO RE-ADJUST AIR QUANTITIES AS REQUIRED TO CORRECT TEMPERATURES, PRESSURES, ELIMINATE DRAFTS AND OBSTRUCTIVE NOISES DURING THE FIRST YEAR OF ACCEPTANCE OF THE FINAL BALANCING REPORT.

PART 2 PRODUCTS - NOT USED
3.01 GENERAL REQUIREMENTS
A. THE BALANCING CONTRACTOR SHALL BE REPAIRED TO RETURN TO THE TAB AT NO ADDITIONAL COST TO RE-ADJUST AIR QUANTITIES AS REQUIRED TO CORRECT TEMPERATURES, PRESSURES, ELIMINATE DRAFTS AND OBSTRUCTIVE NOISES DURING THE FIRST YEAR OF ACCEPTANCE OF THE FINAL BALANCING REPORT.

PART 3 EXECUTION
3.01 COORDINATION OF WORK
A. EXAMINE THE CONTRACT DOCUMENTS AS A WHOLE FOR THE WORK OF OTHER TRADES, COORDINATE ALL WORK ACCORDINGLY.
3.02 EXAMINATION
A. VERIFY ALL MEASUREMENTS ARE AS INDICATED ON THE DRAWINGS.



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My Salon Site
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Revisions
1.
2.
3.

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CA-369
MECHANICAL SPECS

M-3.0

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REFRIGERANT PIPING SPECIFICATIONS AND INSTALLATION REQUIREMENTS (DAIKIN VRV)

7. Refrigerant pipe size and allowable pipe length

— Δ NOTE —
When installing the VRV outdoor unit in combination with the VRV DV5 DOAS air handling unit, refer to the DV5 DOAS installation manual.

7.1. General information

— Δ NOTE —
The refrigerant R410A requires strict cautions for keeping the system clean, dry and tight.

- Clean and dry foreign materials (including mineral oils or moisture) should be prevented from getting mixed into the system.
- Tight: R410A does not contain any chlorine, does not destroy the ozone layer, and does not reduce earth's protection against harmful ultraviolet radiation. R410A can contribute slightly to the greenhouse effect if it is released. Therefore, we should take special attention to check the tightness of the installation.
- When connecting to DOAS units, refer to DOAS Installation Manual.

7.2. Selection of piping material

— Δ NOTE —
Piping and other pressure containing parts shall comply with the applicable legislation and shall be suitable for refrigerant. Use phosphoric acid deoxidized seamless copper for refrigerant.

— Δ NOTE —

- All field piping must be installed by a licensed refrigeration technician and must comply with relevant local and national regulations.
- After piping work is complete, do not under any circumstances open the stop valve until 6. Field wiring on page 18 and 12, checking of device and installation conditions on page 24 are complete.
- Do not use flux when brazing the refrigerant piping. Use the phosphor copper brazing filler metal (B-Cu92P-710/795 : ISO 3677) which does not require flux. Flux has extremely negative effect on refrigerant piping systems. For instance, if the chlorine based flux is used, it will cause pipe corrosion or, in particular, if the flux contains fluorine, it will damage the refrigerant oil.

- Use only pipes which are clean inside and outside and which do not accumulate harmful sulfur, oxidants, dirt, cutting oils, moisture, or other contamination. (Foreign materials inside pipes including oils for fabrication must be 0.14 mg/10 ft. (90 mg/10 m) or less.)
- Use the following items for the refrigerant piping.
Material : Jointless phosphor-deoxidized copper pipe.

Size : See 7.3. Selection of piping size to determine the correct size.
Thickness : Select a thickness for the refrigerant piping which complies with national and local laws.

- For piping work, follow the maximum tolerated length, difference in height, and length after a branch indicated in the 7.5. System piping (length) limitations on page 11.
- Outdoor unit multi connection piping kit and refrigerant branch kit (sold separately) are needed for connection of piping between outdoor units (in case of multi system) and piping branches.
- Use only separately sold items selected specifically according to the outdoor unit multi connection piping kit, the refrigerant branch kit selection in the 7.4. Selection of refrigerant branch kits on page 10.

7.3.2. Piping between refrigerant branch kits or refrigerant branch kits and Branch Selector units: D

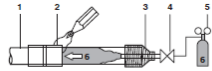
Choose from the following table in accordance with the indoor unit total capacity, connected downstream. Do not let the connection piping exceed the refrigerant piping size chosen by the general system model name.

8. Precautions on refrigerant piping

- Do not allow anything other than the designated refrigerant to get mixed into the refrigerant cycle, such as air, nitrogen, etc. If any refrigerant gas leaks while working on the unit, ventilate the room thoroughly right away.
- Use R410A only when adding refrigerant.
- Installation tools:
 - Make sure to use installation tools (gauge manifold, charge hose, etc.) that are exclusively used for R410A installations to withstand the pressure and to prevent foreign materials (e.g., mineral oils and moisture) from mixing into the system.
- Vacuum pump:
 - Use a 2-stage vacuum pump with a non-return valve.
 - Make sure the pump oil does not flow oppositely into the system while the pump is not working.
 - Use a vacuum pump which can evacuate to 500 microns.

8.1. Caution for brazing

- Make sure to blow through with Dry Nitrogen when brazing. Blowing through with Dry Nitrogen prevents the creation of large quantities of oxidized film on the inside of the piping. An oxidized film adversely affects valves and compressors in the refrigerating system and prevents proper operation.
- The Dry Nitrogen pressure should be set to 2.9 psi (0.02 MPa) (i.e., just enough so it can be felt on the skin) with a pressure-reducing valve.



- 1 Refrigerant piping
- 2 Part to be brazed
- 3 Taping
- 4 Hands valve
- 5 Pressure-reducing valve
- 6 Dry Nitrogen

Do not use anti-oxidants when brazing the pipe joints. Residue can clog pipes and break equipment.

- Do not use flux when brazing copper-to-copper refrigerant piping. Use phosphor copper brazing filler alloy (BCuP) which does not require flux.
- Flux has an extremely harmful influence on refrigerant piping systems. For instance, if chlorine based flux is used, it will cause pipe corrosion or, in particular, if the flux contains fluorine, it will deteriorate the refrigerant oil.

SPLIT-SYSTEM AIR-CONDITIONERS

PART 1 – GENERAL

1.1 SUMMARY

- A. SECTION INCLUDES SPLIT-SYSTEM AIR-CONDITIONING AND HEAT-PUMP UNIT, CONDENSING OF SEPARATE EVAPORATOR-FAN AND COMPRESSOR-CONDENSER COMPONENTS.

1.2 SUBMITTALS

- A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.
- B. SHOP DRAWINGS: INCLUDE PLANS, ELEVATIONS, SECTIONS, DETAILS, AND ATTACHMENTS TO OTHER WORK.
 1. DETAIL EQUIPMENT ASSEMBLES AND INDICATE DIMENSIONS, WEIGHTS, LOADS, CONNECTIONS, METHOD OF FIELD ASSEMBLY, COMPONENTS, AND LOCATION AND SIZE OF EACH FIELD CONNECTION.
- C. WARRANTY: SAMPLE OF SPECIAL WARRANTY.
- D. OPERATION AND MAINTENANCE DATA.

1.3 QUALITY ASSURANCE

- A. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.
- B. ASHRAE COMPLIANCE:
 1. FABRICATE AND LABEL REFRIGERATION SYSTEM TO COMPLY WITH ASHRAE 15, "SAFETY STANDARD FOR REFRIGERATION SYSTEMS."

1.4 WARRANTY PERIOD

- C. FOR COMPRESSOR: FIVE YEAR(S) FROM DATE OF SUBSTANTIAL COMPLETION.
- D. FOR PARTS: ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION.
- E. FOR LABOR: ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION.

PART 2 – PRODUCTS

- 2.1 MANUFACTURERS:
 - A. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
 2. DAIKIN
 3. CARRIER CORPORATION; HOME COMFORT AND HVAC BUILDING & INDUSTRIAL SYSTEMS.
 4. MITSUBISHI ELECTRIC & ELECTRONICS USA, INC.; HVAC ADVANCED PRODUCTS DIVISION.

2.2 INDOOR UNITS

- A. CONCEALED EVAPORATOR-FAN COMPONENTS:
 1. CHASSIS: GALVANIZED STEEL WITH FLANGED EDGES, REMOVABLE PANELS FOR SERVICING, AND INSULATION ON BACK OF PANEL.
 2. INSULATION: FACED, GLASS-FIBER DUCT LINER.
 3. REFRIGERANT COIL: COPPER TUBE, WITH MECHANICALLY BONDED ALUMINUM FINS AND THERMAL-EXPANSION VALVE. COMPLY WITH ARI 206/110.
 4. FAN MOTORS:
 - a. ECM.
 5. AIRSTREAM SURFACES: SURFACES IN CONTACT WITH THE AIRSTREAM SHALL COMPLY WITH REQUIREMENTS IN ASHRAE 62.1.
 6. FILTERS: WASHABLE.
 7. CONDENSATE DRAIN PANS:
 - a. FABRICATED WITH 2 PERCENT SLOPE IN AT LEAST TWO PLANES TO COLLECT CONDENSATE FROM COOLING COILS (INCLUDING COIL PIPING CONNECTIONS, COIL HEADERS, AND RETURN BENDS) AND HUMIDIFIERS, AND TO DRAIN WATER TOWARD DRAIN CONNECTION.
 - b. INSULATED SINGLE-WALL POLYSTYRENE.
 - c. DRAIN CONNECTION: LOCATED AT LOWEST POINT OF PAN AND SIZED TO PREVENT OVERFLOW. TERMINATE WITH THREADED NIPPLE ON BOTH ENDS OF PAN.
 - d. PAN-TOP SURFACE COATING: ASPHALTIC WATERPROOFING COMPOUND.
 - e. UNITS WITH STACKED COILS SHALL HAVE AN INTERMEDIATE DRAIN PAN TO COLLECT CONDENSATE FROM TOP COIL.

2.3 OUTDOOR UNITS

- A. AIR-COOLED, COMPRESSOR-CONDENSER COMPONENTS:
 1. CASING: STEEL, FINISHED WITH BAKED ENAMEL IN COLOR SELECTED BY ARCHITECT, WITH REMOVABLE PANELS FOR ACCESS TO CONTROLS. KEEP HOLES FOR WATER DRAINAGE AND MOUNTING HOLES IN BASE. PROVIDE BRASS SERVICE VALVES, FITTINGS, AND GAGE PORTS ON EXTERIOR OF CASING.
 2. COMPRESSOR: HERMETICALLY SEALED WITH CRANKCASE HEATER AND MOUNTED ON VIBRATION ISOLATION DEVICE. COMPRESSOR MOTOR SHALL HAVE THERMAL- AND CURRENT-SENSITIVE OVERLOAD DEVICES, START CAPACITOR, RELAY, AND CONTACTOR.
 - a. COMPRESSOR TYPE: SCROLL.
 - b. VARIABLE SPEED COMPRESSOR MOTOR WITH MANUAL-RESET HIGH-PRESSURE SWITCH AND AUTOMATIC-RESET LOW-PRESSURE SWITCH.
 3. REFRIGERANT CHARGE: R-410A.
 4. HEAT-PUMP COMPONENTS: REVERSING VALVE AND LOW-TEMPERATURE-AIR GATEOFF THERMOSTAT.
 5. FAN: ALUMINUM-PROPELLER TYPE, DIRECTLY CONNECTED TO MOTOR.
 6. MOTOR: PERMANENTLY LUBRICATED, WITH INTEGRAL THERMAL-OVERLOAD PROTECTION.
 7. LOW AMBIENT KIT: PERMITS OPERATION DOWN TO 0 DEG F.
 8. MOUNTING BASE: POLYETHYLENE.

2.4 ACCESSORIES

- A. THERMOSTAT: LOW VOLTAGE WITH SUBBASE TO CONTROL COMPRESSOR AND EVAPORATOR FAN.
- B. AUTOMATIC-RESET TIMER TO PREVENT RAPID CYCLING OF COMPRESSOR.
- C. REFRIGERANT LINE KITS: SOFT-ANNEALED COPPER SUCTION AND LIQUID LINES FACTORY CLEANED, DRIED, PRESSURIZED, AND SEALED; FACTORY-INSULATED SUCTION LINE WITH FLARED FITTINGS AT BOTH ENDS.
- D. DRAIN HOSE: FOR CONDENSATE.

PART 3 – EXECUTION

3.1 INSTALLATION

- A. INSTALL UNITS LEVEL AND PLUMB.

- B. INSTALL EVAPORATOR-FAN COMPONENTS USING MANUFACTURER'S STANDARD MOUNTING DEVICES SECURELY FASTENED TO BUILDING STRUCTURE.
 - C. INSTALL ROOF-MOUNTED, COMPRESSOR-CONDENSER COMPONENTS ON EQUIPMENT SUPPORTS SPECIFIED IN SECTION 072200 "ROOF ACCESSORIES." ANCHOR UNITS TO SUPPORTS WITH REMOVABLE, CADMIUM-PLATED FASTENERS.
- RETAIN FIRST SUBPARAGRAPH BELOW TO REQUIRE GROUND-MOUNTED UNITS TO BE INSTALLED ON CAST-IN-PLACE CONCRETE EQUIPMENT BASES.
- D. INSTALL AND CONNECT PRECHARGED REFRIGERANT TUBING TO COMPONENTS' QUICK-CONNECT FITTINGS. INSTALL TUBING TO ALLOW ACCESS TO UNIT.

3.2 CONNECTIONS

- A. WHERE PIPING IS INSTALLED ADJACENT TO UNIT, ALLOW SPACE FOR SERVICE AND MAINTENANCE OF UNIT.
- B. DUCT CONNECTIONS: DUCT INSTALLATION REQUIREMENTS ARE SPECIFIED IN SECTION 233113 "METAL DUCTS." DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF DUCTS. CONNECT SUPPLY AND RETURN DUCTS TO SPLIT-SYSTEM AIR-CONDITIONING UNITS WITH FLEXIBLE DUCT CONNECTORS. FLEXIBLE DUCT CONNECTORS ARE SPECIFIED IN SECTION 233300 "AIR DUCT ACCESSORIES."

3.3 FIELD QUALITY CONTROL

- A. PERFORM TESTS AND INSPECTIONS.
 1. MANUFACTURER'S FIELD SERVICE: ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO INSPECT COMPONENTS, ASSEMBLIES, AND EQUIPMENT INSTALLATIONS, INCLUDING CONNECTIONS, AND TO ASSIST IN TESTING.
- B. TESTS AND INSPECTIONS:
 1. LEAK TEST: AFTER INSTALLATION, CHARGE SYSTEM AND TEST FOR LEAKS. REPAIR LEAKS AND RETEST UNTIL NO LEAKS EXIST.
 2. OPERATIONAL TEST: AFTER ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, START UNITS TO CONFIRM PROPER MOTOR ROTATION AND UNIT OPERATION.
 3. TEST AND ADJUST CONTROLS AND SAFETIES. REPLACE DAMAGED AND MALFUNCTIONING CONTROLS AND EQUIPMENT.
 - C. REMOVE AND REPLACE MALFUNCTIONING UNITS AND RETEST AS SPECIFIED ABOVE.
 - D. PREPARE TEST AND INSPECTION REPORTS.

END OF SECTION 238126



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Revisions

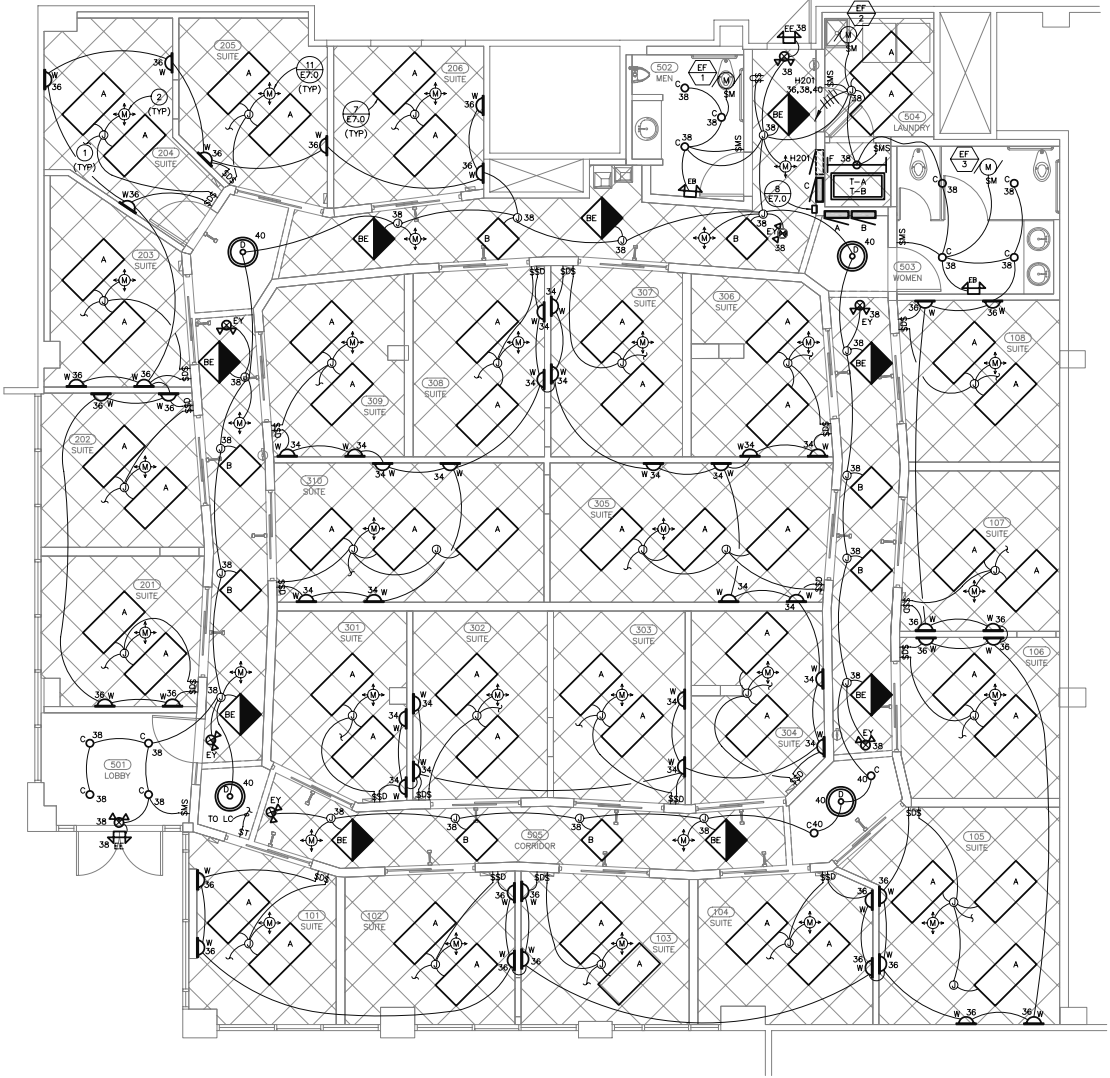
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M-3.2
MECHANICAL SPECS

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THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS AND FOR OBTAINING ALL NECESSARY PERMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS.



Lighting Plan
 1/4" = 1'-0"
 2X2 FIXTURES SPACED
 MAXIMUM OF 10'-0" O.C.

General Notes

- THE ELECTRICAL INSTALLATION SHALL CONFORM TO THE 2014 EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL LOCAL, STATE AND FEDERAL CODES.
- CONDUIT LAYOUTS SHOWN ON THE PLANS ARE DIAGRAMMATIC AND DO NOT INDICATE THE ROUTING REQUIRED. THE CONTRACTOR SHALL ROUTE CONDUITS AS REQUIRED BY THE CONDITIONS OF THE PROJECT.
- DEVICE LOCATION SHOWN ON THE PLANS ARE APPROXIMATE. REFER TO THE ARCHITECTURAL PLANS FOR EXACT DEVICE LOCATIONS.
- WHERE SIZE IS NOT INDICATED ON THE PLAN, CONDUCTORS SHALL BE MINIMUM #12 AWG WITH #12 AWG GROUND WIRE IN 1/2" CONDUIT.
- ALL CONDUITS SHALL CONTAIN A CODE SIZE EQUIPMENT GROUND CONDUCTOR.
- ALL CONDUCTORS SHALL BE COPPER THHN/THWN OR XHHW RATED FOR 90 DEGREE CELSIUS.
- ALL EXTERIOR DEVICES/LIGHTING FIXTURES SHALL BE WEATHERPROOF.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR FINAL LIGHT FIXTURE LOCATIONS.
- "NL" DENOTES FIXTURES ON UNSWITCHED NIGHT LIGHT CIRCUIT.
- SHADED FIXTURES INDICATE UNITS ON UNSWITCHED NIGHT LIGHT CIRCUIT. EMERGENCY UNITS (EM), FURNISH AND INSTALL EMERGENCY BATTERY PACK AND BALLAST CONTROLLING TWO LAMPS (1000 LUMEN OUTPUT RATING MINIMUM).
- EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS IN THE PANELBOARD.
- THE UNGROUNDED AND GROUNDED CONDUCTORS OF EACH MULTIWIRE BRANCH CIRCUIT SHALL BE GROUPED BY WIRE TIES OR SIMILAR MEANS IN AT LEAST ONE LOCATION WITHIN THE PANELBOARD.
- FLOUORESCENT FIXTURES THAT UTILIZE DOUBLE-ENDED LAMPS AND CONTAIN BALLAST SHALL HAVE A DISCONNECTING MEANS INTERNAL TO EACH FIXTURE.
- WHEN CONNECTED TO THE MULTIWIRE BRANCH CIRCUITS, THE DISCONNECTING MEANS SHALL SIMULTANEOUSLY BREAK ALL THE SUPPLY CONDUCTORS TO THE BALLAST, INCLUDING THE GROUNDED CONDUCTOR.

Electrical Symbols

| SYMBOL | DESCRIPTION |
|---------|--|
| A | FIXTURE, CEILING OUTLET: SUBSCRIPTS: A = LIGHTING FIXTURE - TYPE (TYPICAL FOR ALL FIXTURES) 2 = CIRCUIT NUMBER b = SWITCH DESIGNATION |
| □ | FIXTURE, WALL OUTLET |
| □ | FIXTURE, SURFACE OR FLUSH OUTLET, HARD CEILING |
| □ | FIXTURE, W/FLEX TO J-BOX, LAY-IN CEILING |
| □ | STRIP OR INDUSTRIAL TYPE FIXTURE |
| → | EXIT LIGHT W/ DIRECTION ARROW |
| EM/NL | FIXTURE, CEILING OUTLET, EMERGENCY LIGHT (EM) OR NIGHT LIGHT (NL) |
| EM/NL | EMERGENCY LIGHT FIXTURE (EM); AND/OR NIGHT LIGHT (NL) |
| SW | SWITCH, +48" A.F.F. UNLESS NOTED OTHERWISE. LOWERCASE SUBSCRIPT DENOTES CIRCUITING (TYPICAL FOR ALL SWITCH TYPES), LETTER/NUMBER INDICATES: 2 = DOUBLE POLE SWITCH K = KEY OPERATED 3 = THREE WAY SWITCH M = MOTOR RATED 4 = FOUR WAY SWITCH MD = MOMENTARY D = DIMMER F = SINGLE POLE SWITCH WITH FUSE HOLDER |
| T | TIMED OVERRIDE SWITCH TORQ #55403 |
| MS | MOTION SENSOR, WALL LEVITON #020R-MOW |
| MS | MOTION SENSOR, CEILING (360 DEGREES) LEVITON #0210-MDW |
| PA | PANELBOARD |
| ⊥ | GROUND CONNECTION |
| — | CONDUIT CONCEALED IN WALLS OR CEILING |
| — | UNDERGROUND CONDUIT |
| | CROSS HATCHES INDICATE NUMBER OF CONDUCTORS IN CONDUIT. CONDUCTORS ARE #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT CROSS HATCHES INDICATES INSULATED PHASE WIRE, LONG CROSS HATCH INDICATES NEUTRAL CONDUCTOR, 1/2 CROSS HATCH INDICATES GROUND WIRE. |
| A-1,3,5 | HOMERUN TO PANEL "A"; CIRCUITS 1, 3, AND 5. CONDUCTOR SIZES INDICATED ON HOMERUN SHALL BE THE MINIMUM SIZE FOR THE ENTIRE CIRCUIT UP TO CONNECTION OF LAST LOAD |
| EF | EQUIPMENT NUMBER DESIGNATION (EF-1) SEE EQUIPMENT SCHEDULES |
| D | DETAIL NUMBER - ON PAGE |

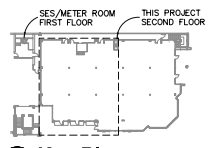
Key Notes

- REFER TO SHEET E-3.0 FOR CONTINUATION. THE LIGHT FIXTURES ARE TO BE CIRCLED WITH THE CUT-STATION RECEPTACLE AND CONTROLLED BY THE MOTION SENSOR WITH THE LOCAL SWITCH OVERRIDE.
- PROVIDE CEILING MOUNTED MOTION SENSOR SENSORSWITCH CM POT 10, MOTION SENSORS TO CONTROL BOTH 2X4 FIXTURES AND CUT STATION RECEPTACLE. SEE DETAIL ON SHEET E-7.0 FOR ADDITIONAL INFORMATION.

LIGHT SWITCH SPECIFICATIONS:
 LIGHT SWITCH: LEVITON DEORA 15 AMP SINGLE POLE AC OUIET SWITCH (WHITE).

Existing Condition Notes

- ANY EXISTING CONDITIONS INDICATED IN THIS SET OF DRAWINGS ARE BASED ON INFORMATION PROVIDED BY OTHERS AND POSSIBLE LIMITED FIELD VERIFICATION. THE CONTRACTOR SHALL ADJUST FOR ACTUAL FIELD CONDITIONS AT NO ADDITIONAL EXPENSE TO THE OWNER.
- THE CONTRACTOR SHALL VISIT THE PROJECT SITE, REVIEW EXISTING CONDITIONS AGAINST THE CONTRACT DOCUMENTS, AND FAMILIARIZE HIMSELF WITH THE WORK PRIOR TO BEING AND START OF THE WORK. BY SIGNING THE CONTRACT, THE CONTRACTOR ACKNOWLEDGES THE SITE VISIT HAS BEEN COMPLETED AND THE EXISTING CONDITIONS ARE ACCEPTED.
- THE CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING EQUIPMENT, DEVICES, AND LUMINAIRES AS INDICATED AND/OR AS REQUIRED TO ALLOW FOR INSTALLATION AND CONSTRUCTION OF THE NEW WORK. REMOVE ALL EQUIPMENT, DEVICES, LUMINAIRES, CONDUITS, SUPPORTS, HANGERS, ETC. THAT ARE NOT SHOWN AND ARE REQUIRED TO BE REMOVED IN ORDER TO COMPLETE THE NEW WORK.
- ELECTRICAL CIRCUITS THAT ARE TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY. CONDUCTORS SHALL BE REMOVED FROM THE STEM TO BE DEMOLISHED TO THE SOURCE. OVERCURRENT DEVICE, RACEWAYS WHICH ARE INSTALLED IN OR BELOW FLOORS OR WITHIN WALLS MAY BE ABANDONED, BUT ALL OVERHEAD OR EXPOSED RACEWAYS SHALL BE REMOVED. EXPOSED RACEWAYS TO BE ABANDONED SHALL BE REMOVED AND SHALL BE CUT OR CHISELED AT LEAST 2" INTO THE WALL OR FLOOR AND THE OPENING GROUDED SMOOTH.
- PROVIDE TEMPORARY CIRCUITS AND CONNECTIONS TO EQUIPMENT, LUMINAIRES, OR DEVICES IN AREAS OF THE FACILITY THAT ARE TO REMAIN IN OPERATION AS REQUIRED TO MAINTAIN THOSE AREAS IN COMPLETE OPERATION.
- MAINTAIN CONTINUITY OF EXISTING CIRCUITS AS REQUIRED TO PROVIDE POWER TO REMAINING EQUIPMENT, DEVICES, AND LUMINAIRES THAT ARE NOT BEING REMOVED.
- WHERE ELECTRICAL DISTRIBUTION EQUIPMENT SUCH AS PANELBOARDS OR SWITCHBOARDS IS TO BE REMOVED OR RELOCATED, ALL EXISTING CIRCUITS THAT ARE TO REMAIN SHALL BE RECONNECTED TO NEW OR RELOCATED ELECTRICAL DISTRIBUTION EQUIPMENT TO MAINTAIN THE CONTINUITY OF THOSE EXISTING CIRCUITS. INTERCEPT AND EXTEND ALL EXISTING CIRCUITS AS REQUIRED.



Key Plan
 1" = 50'-0"



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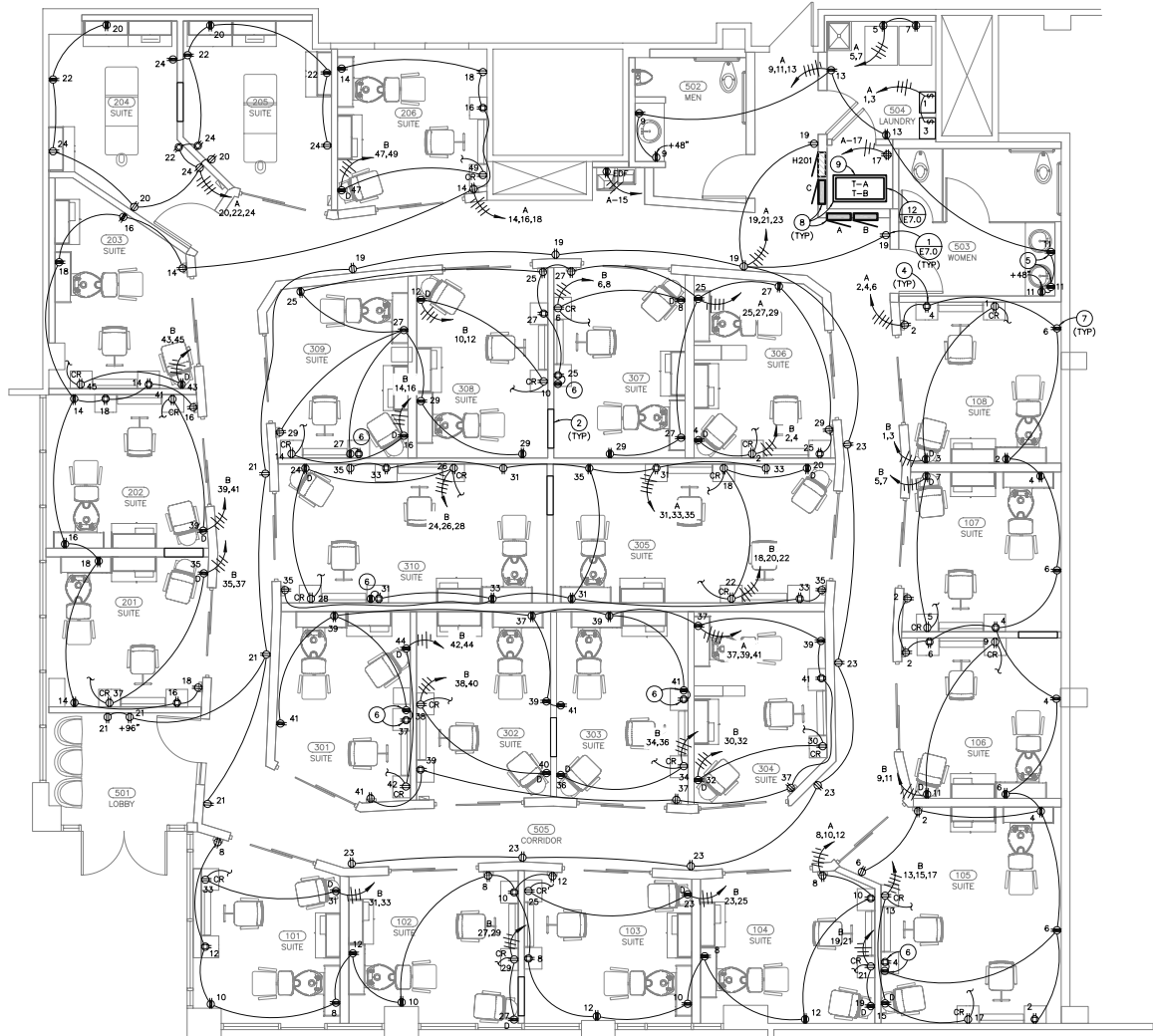
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Revisions

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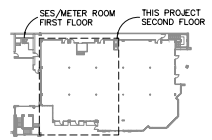
E-2.0
 Lighting Plan

THE CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS AND THE LOCATION OF ALL UTILITIES PRIOR TO THE START OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AUTHORITIES.



Power Plan
1/4" = 1'-0"

Key Plan
1" = 50'-0"



Electrical Symbols

| SYMBOL | DESCRIPTION |
|--------|--|
| ⊖ | DUPLEX RECEPTACLE OUTLET @ +18" A.F.F. U.N.O. OR OUT STATION RECEPTACLE |
| ⊖ | D, BED - ON DEDICATED BRANCH CIRCUIT |
| ⊖ | DUPLEX RECEPTACLE OUTLET @ +18" A.F.F. U.N.O. WITH USB CHARGING OUTLET, Eaton TR7746W |
| ⊖ | DOUBLE DUPLEX RECEPTACLE OUTLET @ +18" A.F.F. U.N.O. |
| ⊖ | GFCI BLANK FACE DEVICE, LEVITON #X-75590 |
| ⊖ | DUPLEX OR DOUBLE DUPLEX RECEPTACLE OUTLET GFCI (NON-FEED-THROUGH) @ +18" A.F.F. U.N.O. |
| (#-#) | SPECIAL PURPOSE RECEPTACLE OUTLET; (#-# DENOTES NEMA CONFIGURATION) |
| ⊖ | SAME AS ABOVE, FLOOR MOUNTED |
| ⊖ | SAME AS ABOVE, CEILING MOUNTED |
| ⊖ | MOTOR, (# DENOTES HORSE POWER) |
| ⊖ | SAFETY DISCONNECT SWITCH; FUSIBLE (30/3 = 30A 3 POLE) |
| ⊖ | SAFETY DISCONNECT SWITCH; NON-FUSIBLE |
| ⊖ | PANELBOARD |
| ⊖ | JUNCTION BOX OR PULL BOX |
| ⊖ | DISCONNECT SWITCH RATED AS NOTED |
| ⊖ | FUSE RATED AS NOTED |
| ⊖ | CIRCUIT BREAKER RATED AS NOTED |
| ⊖ | GROUND CONNECTION |
| ⊖ | CONDUIT CONCEALED IN WALLS OR CEILING |
| ⊖ | UNDERGROUND CONDUIT |
| ⊖ | CROSS HATCHES INDICATE NUMBER OF CONDUCTORS IN CONDUIT. CONDUCTORS ARE #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT CROSS HATCHES INDICATES INSULATED PHASE WIRE, LONG CROSS HATCH INDICATES NEUTRAL CONDUCTOR, 1/2 CROSS HATCH INDICATES GROUND WIRE. |
| ⊖ | HOMERUN TO PANEL 'A'; CIRCUITS 1, 3, AND 5. CONDUCTOR SIZES INDICATED ON HOMERUN SHALL BE THE MINIMUM SIZE FOR THE ENTIRE CIRCUIT UP TO CONNECTION OF LAST LOAD |
| ⊖ | EQUIPMENT NUMBER DESIGNATION (EF-1) SEE EQUIPMENT SCHEDULES |
| ⊖ | DETAIL NUMBER ON PAGE |

Existing Condition Notes

A. REFER TO SHEET E-2.0 FOR EXISTING CONDITION NOTES.

Key Notes

1. PROVIDE FINAL CONNECTION TO SIGN, COORDINATE LOCATION & ALL REQUIREMENTS WITH SIGN CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE AN APPROPRIATE LOCAL DISCONNECTING MEANS MOUNTED IN AN ACCESSIBLE, INCONSPICUOUS LOCATION THAT IS WITHIN SIGHT OF THE SIGN. EACH SIGN CIRCUIT SHALL HAVE A SEPARATE NEUTRAL & SEPARATE EQUIPMENT GROUNDING CONDUCTOR.
2. CONTRACTOR SHALL NOT PLACE ANY DEVICE OR RUN ANY CONDUITS THROUGH THE KNOCKOUTS BETWEEN SUITES.
3. OUT-STATION RECEPTACLE TO BE CONTROLLED VIA CEILING MOUNTED MOTION SENSOR WITH LOCAL 2X4 LIGHTS.
4. PROVIDE COPPER WIRING DEVICES MODEL #TR7746W, USB CHARGING OUTLET. VERIFY EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
5. COORDINATE OUTLET LOCATIONS FOR FAUCET SENSORS.
6. USB DEVICES SHOWN AS GFCI-PROTECTED SHALL BE PROTECTED BY AN UP-STREAM GFCI BLANK FACE DEVICE, LEVITON #X-75590. MOUNT BOTH DEVICES IN TWO GANG BOX WITH TWO GANG COVERPLATE.
7. PROVIDE NON-FEED-THROUGH-TYPE GFCI RECEPTACLE DEVICES.
8. PROVIDE PERMANENT PLACARDS ON ELECTRICAL EQUIPMENT TO INDICATE WORKING CLEARANCES.
9. PROVIDE CONSTRUCTED TRANSFORMER SUPPORT FOR T-A AND T-B FROM BACK TO BACK P1001 DOUBLE UNISTRUIT WITH FEET SECURELY ANCHORED TO CONCRETE FLOOR AND FULLY BRACED.

General Notes

- A. THE ELECTRICAL INSTALLATION SHALL CONFORM TO THE 2014 EDITION OF THE NATIONAL ELECTRIC CODE AND ALL LOCAL, STATE AND FEDERAL CODES.
- B. CONDUIT LAYOUTS SHOWN ON THE PLANS ARE DIAGRAMMATIC AND DO NOT INDICATE THE ROUTING REQUIRED, THE CONTRACTOR SHALL ROUTE CONDUITS AS REQUIRED BY THE CONDITIONS OF THE PROJECT.
- C. DEVICE LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE. REFER TO THE ARCHITECTURAL PLANS FOR EXACT DEVICE LOCATIONS.
- D. WHERE SIZE IS NOT INDICATED ON THE PLAN, CONDUCTORS SHALL BE MINIMUM #12 AWG WITH #12 AWG GROUND WIRE IN 1/2" CONDUIT.
- E. ALL CONDUITS SHALL CONTAIN A CODE SIZE EQUIPMENT GROUND CONDUCTOR.
- F. ALL CONDUCTORS SHALL BE COPPER THHN/THWN OR XHHW RATED FOR 90 DEGREES CELSIUS.
- G. CONTRACTOR TO PERMANENTLY MARK ON ELECTRICAL COVER PLATE PANEL NAME AND CIRCUIT NUMBER.
- H. ALL EXTERIOR DEVICES SHALL BE WEATHERPROOF.
- I. UNLESS SPECIFICALLY NOTED OTHERWISE, THE ELECTRICAL CONTRACTOR SHALL PROVIDE FINAL CONNECTIONS TO ALL UTILIZATION EQUIPMENT SHOWN ON THE PLANS. VERIFY FINAL CONNECTION AND PROVIDE APPROPRIATE WIRING METHOD.
- J. PRIOR TO TRENCHING IN ANY AREA, THE ELECTRICAL CONTRACTOR SHALL CONTACT ELECTRICAL, COMMUNICATIONS, CABLE TV, GAS AND WATER (BLUE STAKE) AND HAVE ALL UTILITIES IN THE AREA IDENTIFIED. DAMAGE TO ANY UNDERGROUND STRUCTURE SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE PROJECT.
- K. EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS IN THE PANELBOARD.
- L. THE UNGROUNDED AND GROUNDED CONDUCTORS OF EACH MULTIWIRE BRANCH CIRCUIT SHALL BE GROUPED BY WIRE TIES OR SIMILAR MEANS IN AT LEAST ONE LOCATION WITHIN THE PANELBOARD.



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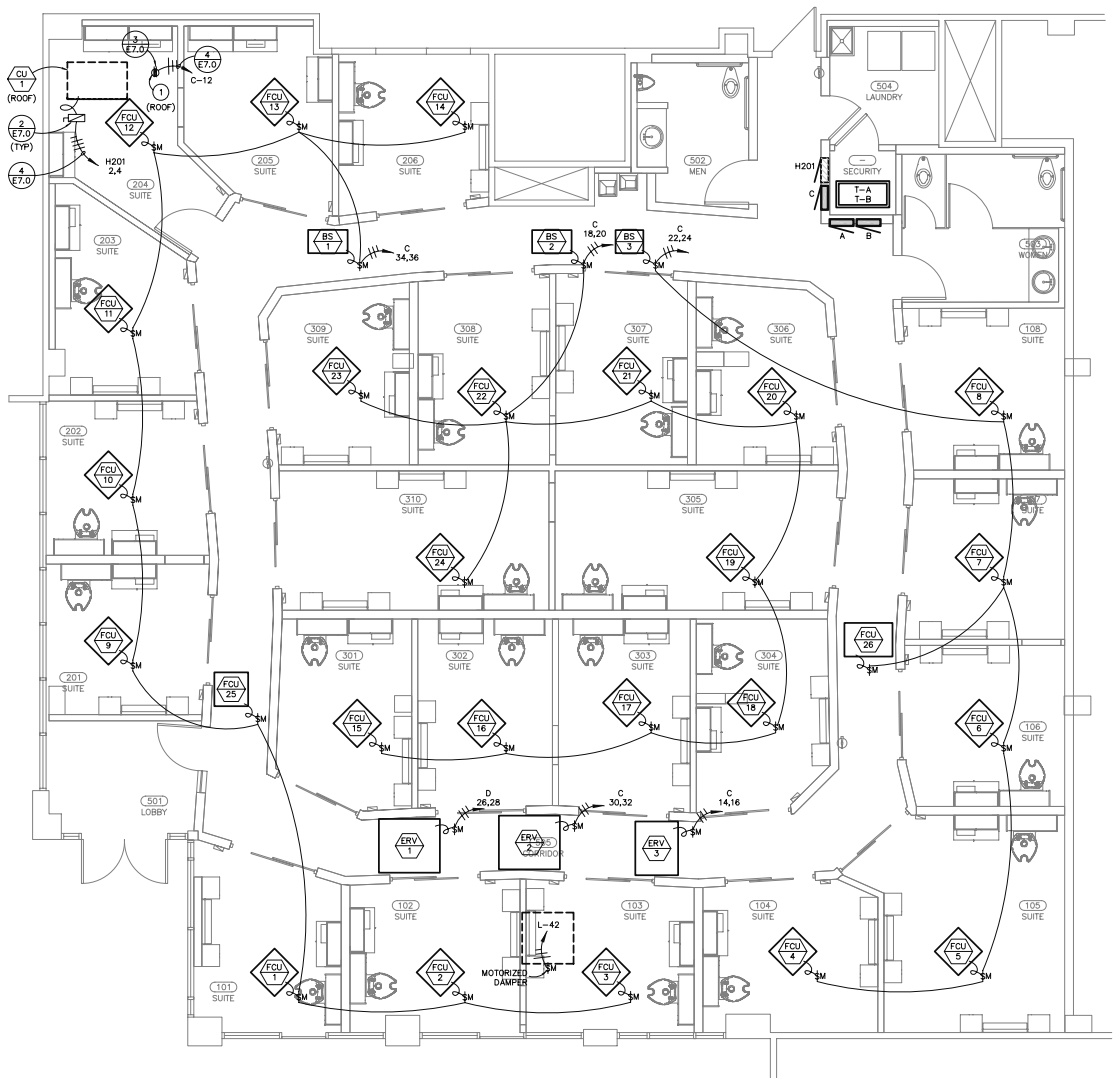
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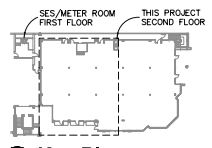
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E-3.0
Power Plan

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HVAC Power Plan
1/4" = 1'-0"



Key Plan
1" = 50'-0"

Electrical Symbols

| SYMBOL | DESCRIPTION |
|--------|---|
| ⊖ | DUPLEX RECEPTACLE OUTLET @ +18" A.F.F. U.N.O. OR - ON DEDICATED BRANCH CIRCUIT |
| ⊖ | DUPLEX RECEPTACLE OUTLET @ +18" A.F.F. U.N.O. WITH USB CHARGING OUTLET, Eaton TR7746W |
| ⊖ | DOUBLE DUPLEX RECEPTACLE OUTLET @ +18" A.F.F. U.N.O. |
| ⊖ | GFCI BLANK FACE DEVICE, LEVITON #X-75590 |
| ⊖ | DUPLEX OR DOUBLE DUPLEX RECEPTACLE OUTLET GFCI (NON-TEO-THROUGH) @ +18" A.F.F. U.N.O. |
| ⊖ | SPECIAL PURPOSE RECEPTACLE OUTLET: (#-# DENOTES NEMA CONFIGURATION) |
| ⊖ | SAME AS ABOVE, FLOOR MOUNTED |
| ⊖ | SAME AS ABOVE, CEILING MOUNTED |
| ⊖ | MOTOR, (# DENOTES HORSE POWER) |
| ⊖ | SAFETY DISCONNECT SWITCH; FUSIBLE (30/3 = 30A 3 POLE) |
| ⊖ | SAFETY DISCONNECT SWITCH; NON-FUSIBLE |
| ⊖ | PANELBOARD |
| ⊖ | JUNCTION BOX OR PULL BOX |
| ⊖ | DISCONNECT SWITCH RATED AS NOTED |
| ⊖ | FUSE RATED AS NOTED |
| ⊖ | CIRCUIT BREAKER RATED AS NOTED |
| ⊖ | GROUND CONNECTION |
| ⊖ | CONDUIT CONCEALED IN WALLS OR CEILING |
| ⊖ | UNDERGROUND CONDUIT |
| ⊖ | CROSS HATCHES INDICATE NUMBER OF CONDUCTORS IN CONDUIT. CONDUCTORS ARE #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT CROSS HATCHES INDICATES INSULATED PHASE WIRE. LONG CROSS HATCH INDICATES NEUTRAL CONDUCTOR. 1/2 CROSS HATCH INDICATES GROUND WIRE. |
| ⊖ | HOMERUN TO PANEL 'A'; CIRCUITS 1, 3, AND 5. CONDUCTOR SIZES INDICATED ON HOMERUN SHALL BE THE MINIMUM SIZE FOR THE ENTIRE CIRCUIT UP TO CONNECTION OF LAST LOAD |
| ⊖ | EQUIPMENT NUMBER DESIGNATION (EF-1) SEE EQUIPMENT SCHEDULES |
| ⊖ | DETAIL NUMBER ON PAGE |
| ⊖ | DETAIL CALLOUT-SEE DETAIL ON PAGE INDICATED |

Existing Condition Notes

- A. REFER TO SHEET E-2.0 FOR EXISTING CONDITION NOTES.

General Notes

- THE ELECTRICAL INSTALLATION SHALL CONFORM TO THE 2014 EDITION OF THE NATIONAL ELECTRIC CODE AND ALL LOCAL, STATE AND FEDERAL CODES.
- CONDUIT LAYOUTS SHOWN ON THE PLANS ARE DIAGRAMMATIC AND DO NOT INDICATE THE ROUTING REQUIRED. THE CONTRACTOR SHALL ROUTE CONDUITS AS REQUIRED BY THE CONDITIONS OF THE PROJECT.
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- ALL CONDUITS SHALL CONTAIN A CODE SIZE EQUIPMENT GROUND CONDUCTOR.
- ALL CONDUCTORS SHALL BE COPPER THHN/THWN OR XHHW RATED FOR 90 DEGREES CELSIUS.
- CONTRACTOR TO PERMANENTLY MARK ON RECEPTACLE COVER PLATE PANEL NAME AND CIRCUIT NUMBER.
- ALL EXTERIOR DEVICES SHALL BE WEATHERPROOF.
- UNLESS SPECIFICALLY NOTED OTHERWISE, THE ELECTRICAL CONTRACTOR SHALL PROVIDE FINAL CONNECTIONS TO ALL UTILIZATION EQUIPMENT SHOWN ON THE PLANS. VERIFY FINAL CONNECTION AND PROVIDE APPROPRIATE WIRING METHOD.
- EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS IN THE PANELBOARD.
- THE UNGROUNDED AND GROUNDED CONDUCTORS OF EACH MULTIWIRE BRANCH CIRCUIT SHALL BE GROUPED BY WIRE TIES OR SIMILAR MEANS IN AT LEAST ONE LOCATION WITHIN THE PANELBOARD.

Key Notes

- PROVIDE GFCI RECEPTACLE ON ROOF WITH LOCKABLE, EXTRA-DUTY, WHILE IN USE WEATHER-PROOF COVER, HUBBELL-TAYMAC #HX3200.



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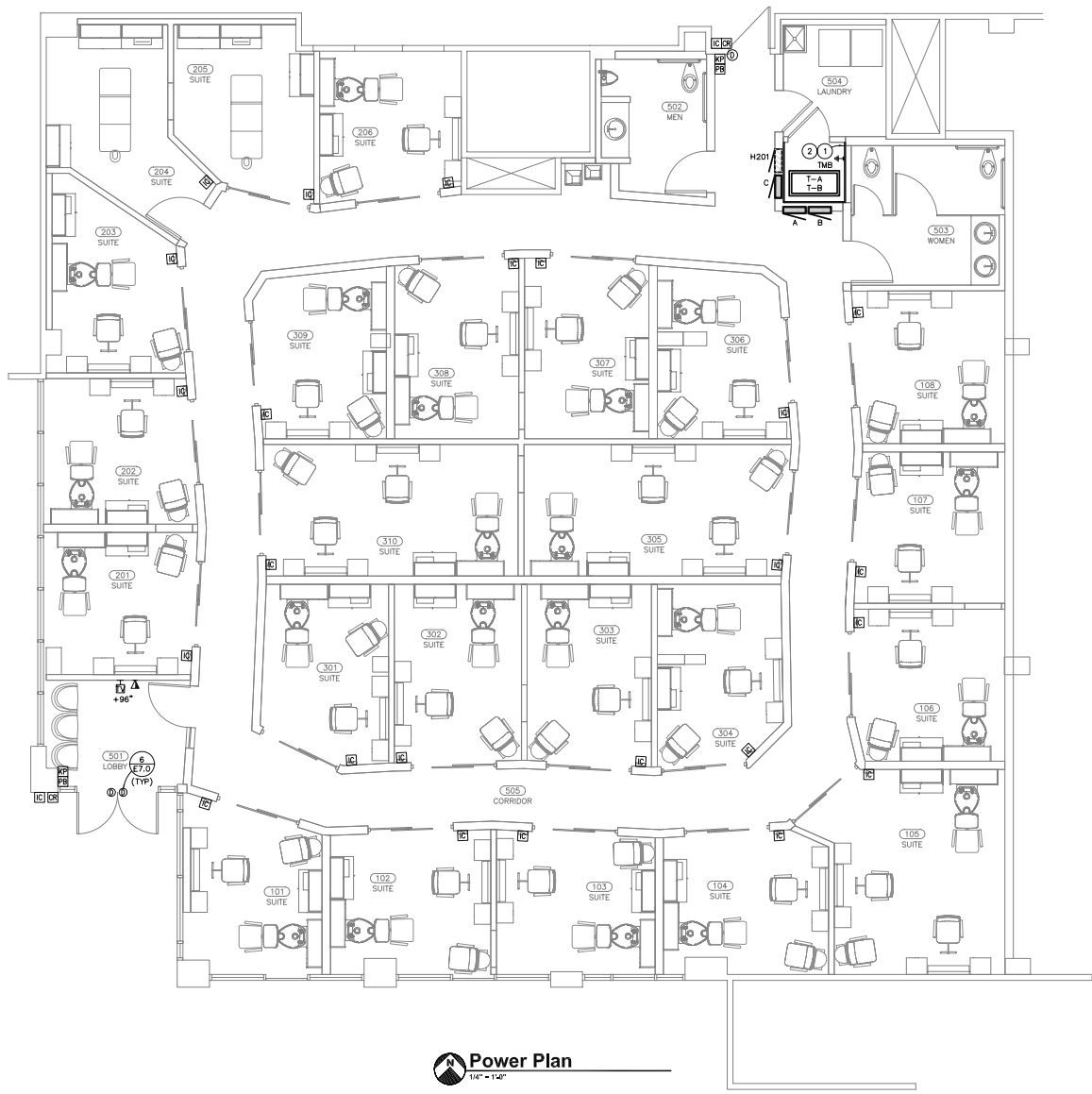
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E-4.0
 HVAC Power Plan

THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES AND EQUIPMENT PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES.



Power Plan
1/4" = 1/4"

Special Systems Notes

THE AIRPHONE COMMUNICATION PHONE NEEDS TO BE ADJACENT TO THE OPEN SIDE OF THE SLIDER ABOVE LIGHT OVERRIDE SWITCH. REFER TO ARCHITECTURAL DRAWING ELEVATION OF TYPICAL SUITE.

WHEN AVAILABLE ALL TELECOMMUNICATIONS & SECURITY/ACCESS CONTROL SYSTEMS SHALL BE PLACED IN A SECURE CLOSET.

THE MAGNETIC LOCKING DEVICE AT THE FRONT ENTRY DOOR SHALL BE PROVIDED & INSTALLED BY THE ACCESS CONTROL CONTRACTOR.

THE FIRE ALARM CONTRACTOR SHALL LAND CONNECTIONS AT THE ACCESS CONTROL PANEL. THE ACCESS CONTROL CONTRACTOR SHALL MAKE THE FINAL CONNECTIONS.

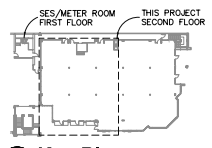
THE GENERAL CONTRACTOR IS RESPONSIBLE FOR MAKING THE CONNECTIONS FROM THE ACCESS CONTROL SYSTEM TO THE FIRE ALARM PANEL & IF NECESSARY THE FIRE SPRINKLER SYSTEM. THE GENERAL CONTRACTORS FIRE ALARM SUBCONTRACTOR SHALL MAKE THE CONNECTIONS AT THE FIRE ALARM PANEL THE GENERAL CONTRACTOR SHALL COORDINATE ALL NECESSARY TRADES TO ASSURE THE RELEASE OF THE MAGNETIC LOCKING SYSTEM UPON ACTIVATION OF THE FIRE ALARM SYSTEM OR SPRINKLER SYSTEM. THE SECURITY SYSTEM SHALL BE PROVIDED BY OTHERS UNDER A SEPARATE PERMIT.

COMMUNICATION WIRING BY LOW VOLTAGE CONTRACTOR

1. ALL LOW VOICE/DATA WIRING TO BE CAT 6 RATED (MINIMUM), 1 HOME RUN TO EACH LOCATION.
2. ALL DATA WIRING TO TERMINATE AT 12 PORT CAT 6 PATCH PANEL.
3. ALL VOICE WIRING TO TERMINATE AT 66 PUNCH DOWN BLOCK.
4. ALL WIRING TO BE CLEARLY MARKED ON BOTH ENDS WITH MACHINE PRINTED WIRE NUMBERS.
5. LOW VOLTAGE WIRING SHALL BE COLOR CODED PER INDUSTRY STANDARD.
6. WIRING SHALL TERMINATE AT BACK BOARD.
7. LOW VOLTAGE CONTRACTOR SHALL BE RESPONSIBLE TO COMPLETE INSTALLATION OF COMMUNICATION SERVICES WITHIN SPACE.

Key Notes

1. PROVIDE A 48" X 96" X 3/4" FIRE-RETARDANT PLYWOOD BACKBOARD (TMB) FOR TELECOMMUNICATIONS EQUIPMENT PROVIDE GROUND BAR MOUNTED ON BACKBOARD WITH #6 BARE COPPER EQUIPMENT GROUNDING CONDUCTOR CONNECTED TO POWER SYSTEM'S GROUNDING ELECTRODE SYSTEM.
2. CONTRACTOR SHALL PROVIDE EMPTY CONDUIT WITH PULL STRING FOR THE DATA SYSTEM FROM TELEPHONE UTILITY COMPANY MAIN POINT OF CONNECTION TO BACKBOARD (TMB). VERIFY EXACT POINT OF CONNECTION LOCATION AT SITE.



Key Plan
1" = 50'

Electrical Symbols

| SYMBOL | DESCRIPTION |
|----------|---|
| [Symbol] | PANELBOARD |
| [Symbol] | JUNCTION BOX OR PULL BOX |
| [Symbol] | VOICE # 18" A.F.F. U.N.O., PROVIDE 3/4" CONDUIT WITH PULLSTRING TO ACCESSIBLE CEILING SPACE |
| [Symbol] | DATA # 18" A.F.F. U.N.O., PROVIDE 3/4" CONDUIT WITH PULLSTRING TO ACCESSIBLE CEILING SPACE |
| [Symbol] | VOICE DATA COMMUNICATION # 18" LEFT U.N.O. PROVIDE 3/4" CONDUIT WITH PULLSTRING TO ACCESSIBLE CEILING SPACE |
| [Symbol] | SAME AS ABOVE, FLOOR MOUNTED |
| [Symbol] | SAME AS ABOVE, CEILING MOUNTED |
| [Symbol] | TELEVISION # 18" A.F.F. U.N.O., PROVIDE 3/4" CONDUIT WITH PULLSTRING TO ACCESSIBLE CEILING SPACE |
| [Symbol] | DOOR CONTACT PROVIDE 3/4" CONDUIT WITH PULLSTRING TO ACCESSIBLE CEILING SPACE |
| [Symbol] | CARD READER, PROVIDE 3/4" CONDUIT WITH PULLSTRING TO ACCESSIBLE CEILING SPACE |
| [Symbol] | SECURITY KEYPAD, PROVIDE 3/4" CONDUIT WITH PULLSTRING TO ACCESSIBLE CEILING SPACE |
| [Symbol] | INTERCOM BUTTON & SPEAKER, PROVIDE 3/4" CONDUIT WITH PULLSTRING TO ACCESSIBLE CEILING SPACE |
| [Symbol] | DOOR ACCESS PUSH-BUTTON, PROVIDE 3/4" CONDUIT WITH PULLSTRING TO ACCESSIBLE CEILING SPACE |
| [Symbol] | CCTV CAMERA, PROVIDE 3/4" CONDUIT WITH PULLSTRING TO ACCESSIBLE CEILING SPACE |
| [Symbol] | FIRE SPRINKLER TAMPER / OSY FIRE / PIV VALVE SUPERVISORY SWITCH |
| [Symbol] | WATERFLOW DEVICE |
| [Symbol] | BELL |
| [Symbol] | MANUAL PULL STATION |
| [Symbol] | SMOKE DETECTOR |
| [Symbol] | HEAT DETECTOR |
| [Symbol] | DUCT SMOKE DETECTOR |
| [Symbol] | HORN STROBE |
| [Symbol] | SPEAKER STROBE |
| [Symbol] | STROBE ONLY |
| [Symbol] | FIRE SMOKE DAMPER BY MEGH CONTRACTOR |
| [Symbol] | FIRE ALARM CONTROL PANEL |
| [Symbol] | GROUND CONNECTION |
| [Symbol] | CONDUIT CONCEALED IN WALLS OR CEILING |
| [Symbol] | UNDERGROUND CONDUIT |
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| [Symbol] | HOMERUN TO PANEL 'A': CIRCUITS 1, 3, AND 5. CONDUCTOR SIZES INDICATED ON HOMERUN SHALL BE THE MINIMUM SIZE FOR THE ENTIRE CIRCUIT UP TO CONNECTION OF LAST LOAD |
| [Symbol] | EQUIPMENT NUMBER DESIGNATION (EF-1) SEE EQUIPMENT SCHEDULES |
| [Symbol] | DETAIL NUMBER ON PAGE |

Existing Condition Notes

- A. REFER TO SHEET E-2.0 FOR EXISTING CONDITION NOTES.

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Revisions

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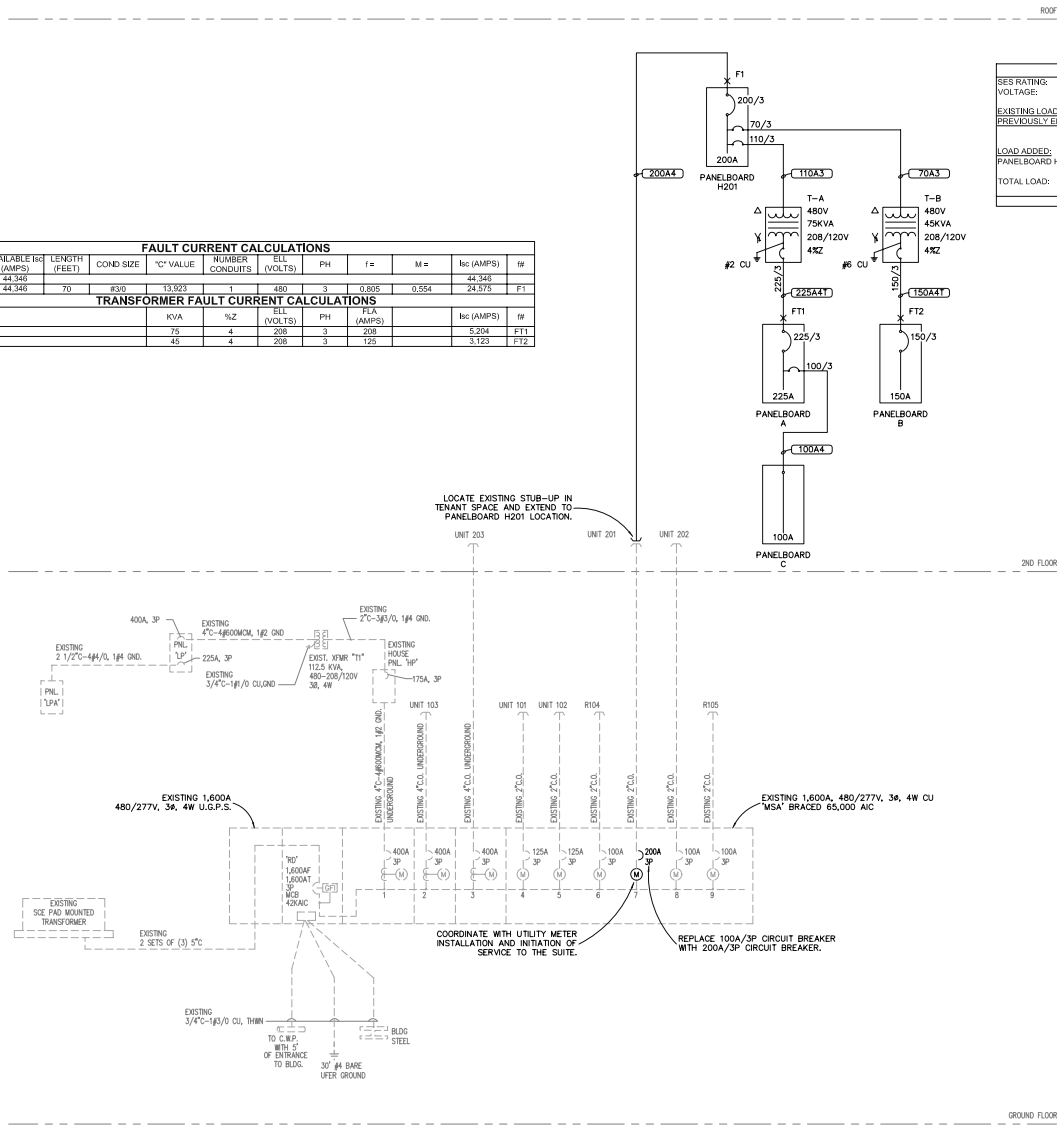
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CA-369

E-5.0

Special Systems Plan

| FAULT CURRENT CALCULATIONS | | | | | | | | | | | |
|--|----------------------|---------------|-------------|-----------|-----------------|-------------|-----|-------|-------|------------|----|
| PANEL | AVAILABLE IFC (AMPS) | LENGTH (FEET) | COND SIZE | 'C' VALUE | NUMBER CONDUITS | ELL (VOLTS) | PH | F | M | Isc (AMPS) | # |
| UTILITY | 44,340 | | | | | | | | | 44,340 | |
| #201 | 44,340 | 70 | #30 | 13,923 | 1 | 480 | 3 | 0.805 | 0.554 | 24,575 | F1 |
| TRANSFORMER FAULT CURRENT CALCULATIONS | | | | | | | | | | | |
| XFMR | KVA | %Z | ELL (VOLTS) | PH | FCA (AMPS) | Isc (AMPS) | # | | | | |
| TA | 75 | 4 | 208 | 3 | 208 | 5,204 | F11 | | | | |
| TB | 45 | 4 | 208 | 3 | 125 | 3,123 | F12 | | | | |

| LOAD SUMMARY - SES | |
|---|-------------------|
| SES RATINGS: | 1,600 AMPS |
| VOLTAGE: | 480/277V, 3PH, 4W |
| EXISTING LOAD FROM PREVIOUSLY ENGINEERED DRAWINGS | = 956.6 KVA |
| LOAD ADDED: | = 106.1 KVA |
| PANELBOARD H201 | = 1,065 KVA |
| TOTAL LOAD: | = 1,281 AMPS |
| SES, 1,600 AMPS, 480/277V, 3PH, 4W | |



ONE-LINE DIAGRAM
NTS

Electrical Symbols

| SYMBOL | DESCRIPTION |
|--------|---|
| (M) | MOTOR, (# DENOTES HORN POWER) |
| (S) | SAFETY DISCONNECT SWITCH; FUSIBLE (30/3 = 30A 3 POLE) |
| (SD) | SAFETY DISCONNECT SWITCH; NON-FUSIBLE |
| (PNL) | PANELBOARD |
| (J) | JUNCTION BOX OR PULL BOX |
| (/) | DISCONNECT SWITCH RATED AS NOTED |
| (F) | FUSE RATED AS NOTED |
| (CB) | CIRCUIT BREAKER RATED AS NOTED |
| (G) | GROUND CONNECTION |

Sheet Legend

- INDICATES EXISTING TO REMAIN
- - - INDICATES NEW/REPLACED
- /// INDICATES EXISTING TO BE REMOVED

Existing Condition Notes

- REFER TO SHEET E-2.0 FOR EXISTING CONDITION NOTES.

Fault Current Notes

- SERVICE ENTRANCE SECTION COMPONENTS INCLUDING OVERCURRENT PROTECTIVE DEVICES SHALL BE FULLY RATED FOR THE AVAILABLE FAULT CURRENT SHOWN.
- ALL 208/120 VOLT PANELBOARDS AND BREAKERS SHALL BE RATED 10,000 AIC MINIMUM.
- ALL 480/277 VOLT PANELBOARDS AND BREAKERS SHALL BE RATED 14,000 AIC MINIMUM EXCEPT WHERE NOTED OTHERWISE.
- WHERE INDICATED, PROVIDE THE SES, PANELBOARDS AND CIRCUIT BREAKERS AS A FULL LISTED AND LABELED SERIES RATED ASSEMBLY. NO DESIGN CHANGES MAY BE MADE WITHOUT THE PRIOR APPROVAL OF THE DESIGN ENGINEER AND THE AUTHORITY HAVING JURISDICTION. PANELBOARD MANUFACTURER SHALL PROVIDE A LABEL IN ALL PANELS STATING BREAKER COMBINATION A.I.C. RATINGS.
- PER NEC ARTICLE 110-22, PROVIDE IDENTIFICATION AT THE ENCLOSURE OF ALL PANELBOARDS WHERE CIRCUIT BREAKERS ARE APPLIED IN A SERIES COMBINATION STATING "CAUTION - SERIES RATED SYSTEM. _____ AMPS AVAILABLE FAULT CURRENT AT THIS LOCATION. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED." CONTRACTOR SHALL FILL IN THE BLANK WITH AVAILABLE FAULT CURRENT AS SHOWN ON THE ONE-LINE DIAGRAM.
- PER NEC ARTICLE 110-22, PROVIDE IDENTIFICATION AT EACH DISCONNECTING MEANS FEEDING DOWNSTREAM DEVICES APPLIED IN A SERIES COMBINATION STATING "CAUTION - SERIES RATED COMPONENTS ARE FED FROM REMOTE MAIN. _____ AMPS AVAILABLE FAULT CURRENT. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED." CONTRACTOR SHALL FILL IN THE BLANK WITH AVAILABLE FAULT CURRENT AS SHOWN ON THE ONE-LINE DIAGRAM.
- A.I.C. RATING SHOWN AT PANELBOARDS IS MINIMUM RATING FOR OVERCURRENT PROTECTIVE DEVICES. EACH DEVICE SHALL BE FULLY RATED OR SERIES RATED WITH UPSTREAM OVERCURRENT DEVICE AT AFC SHOWN ON ONE-LINE.

Fault Current

TRANSFORMER LET-THROUGH:

$$FLA = \frac{XFMR\ KVA}{VOLT \times 1.73}$$

$$Isc = \frac{FLA \times 100}{\%Z}$$

$$f = \frac{1.36 \times I_{sc} \times L}{C \times ELL}$$

$$M = \frac{1}{1 + f}$$

$$Isc = I_{sc} \times M$$

SECOND TRANSFORMER:

$$f = \frac{Isc(p1) \times W(p1) \times \%Z}{100,000 \times KVA}$$

$$M = \frac{1}{1 + f}$$

$$Isc = I_{sc} \times M$$

| CONDUIT AND FEEDER SCHEDULE | | | | | | |
|-----------------------------|-----|--------|-----|------|-------------------------|--------|
| MARK | QTY | SIZE | QTY | SIZE | CONDUCTORS EACH CONDUIT | GROUND |
| 225A4T | 1 | 2-1/2" | 4 | #4/0 | #2 | |
| 200A4 | 1 | 2" | 4 | #3/0 | #6 | |
| 150A4T | 1 | 2" | 4 | #1/0 | #6 | |
| 110A3 | 1 | 1-1/2" | 3 | #1 | #6 | |
| 100A4 | 1 | 1-1/2" | 4 | #1 | #6 | |
| 70A3 | 1 | 1-1/4" | 3 | #4 | #6 | |

NOTE: ALL CONDUCTORS ARE COPPER, 600V, XHHW-2 OR THHN-2, 90 DEGREES RATED, EXCEPT WHERE NOTED.

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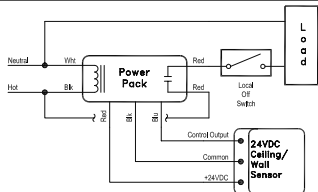
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One Line Diagram

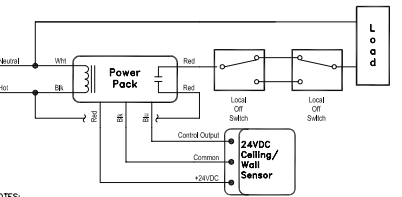
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NOTES:

- PROVIDE MOTION SENSOR AND POWER PACK. INSTALL POWER PACK ABOVE CEILING. PROVIDE SWITCHING AS INDICATED ON SHEET. MAXIMUM NUMBER OF SENSORS PER POWER PACK DEPENDS ON THE MODEL OF SENSOR.
- COORDINATE EXACT LOCATION WITH FIRE ALARM AND SPECIAL SYSTEMS CONTRACTOR PRIOR TO ROUGH-IN.

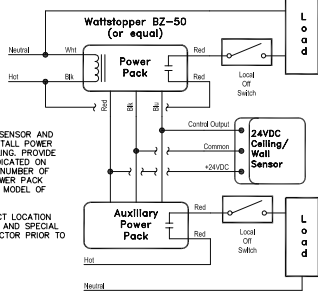
9 LIGHTING CONTROL DIAGRAM
NTS



NOTES:

- PROVIDE MOTION SENSOR AND POWER PACK. INSTALL POWER PACK ABOVE CEILING. PROVIDE SWITCHING AS INDICATED ON SHEET. MAXIMUM NUMBER OF SENSORS PER POWER PACK DEPENDS ON THE MODEL OF SENSOR.
- COORDINATE EXACT LOCATION WITH FIRE ALARM AND SPECIAL SYSTEMS CONTRACTOR PRIOR TO ROUGH-IN.

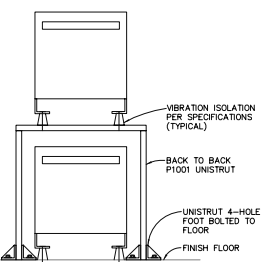
10 3-WAY LIGHTING CONTROL DIAGRAM
NTS



NOTES:

- PROVIDE MOTION SENSOR AND POWER PACK. INSTALL POWER PACK ABOVE CEILING. PROVIDE SWITCHING AS INDICATED ON SHEET. MAXIMUM NUMBER OF SENSORS PER POWER PACK DEPENDS ON THE MODEL OF SENSOR.
- COORDINATE EXACT LOCATION WITH FIRE ALARM AND SPECIAL SYSTEMS CONTRACTOR PRIOR TO ROUGH-IN.

11 2-CIRCUIT LIGHTING CONTROL DIAGRAM
NTS

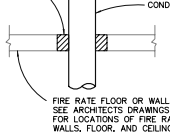


12 TRANSFORMER MOUNTING DETAIL
NTS

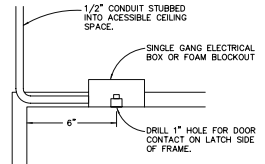
LIGHTING CONTACTOR NOTES:

- ALL CONTACTORS SHALL BE PROVIDED WITH NORMALLY CLOSED CONTACTS. THE CONTACTORS SHALL BE DELIVERED FROM THE FACTORY WITH NORMALLY CLOSED CONTACTS OR WITH FIELD-CONVERTIBLE CONTACTS. THE CONTRACTOR SHALL FIELD-CONVERT CONTACTORS TO NORMALLY OPEN CONTACTS WHEN FIELD-CONVERTIBLE NORMALLY OPEN CONTACTS ARE PROVIDED.
- ANY LOCAL SWITCHING INDICATED ON THE PLANS SHALL BE ON THE LOAD SIDE OF THE CONTACTOR.
- THE ELECTRICAL CONTRACTOR SHALL PROGRAM ALL TIMELOCKS AND INDIVIDUAL DIGITAL TIMELOCK CHANNELS, COORDINATE ALL ON, OFF, AND HOLIDAY SETTINGS WITH THE OWNER. INTERIOR CONTROL ZONES SHALL HAVE THE ASTRONOMIC FUNCTION FOR THE CHANNEL TURNED OFF. EXTERIOR CONTROL ZONES SHALL HAVE THE ASTRONOMIC FUNCTION FOR THE CHANNEL TURNED ON.
- MOUNT TIMELOCK, RELAYS, AND CONTACTORS ADJACENT TO THE ASSOCIATED PANELBOARD(S). ALL CONTACTORS AND RELAYS SHALL BE PROVIDED WITH INDIVIDUAL ENCLOSURES. AT THE CONTRACTOR'S OPTION, OPEN RELAYS AND CONTACTORS ARE PERMITTED WHEN MOUNTED WITHIN A COMMON ENCLOSURE.
- COORDINATE MOUNTING LOCATION OF OVERRIDE SWITCH WITH THE OWNER.
- PROVIDE TO THE OWNER A VOLUNTARY BID ALTERNATE TO UTILIZE A RELAY PANEL WITH A DIGITAL TIMELOCK, LOW VOLTAGE EXTERIOR PHOTO-SENSOR, AND LOW VOLTAGE OVERRIDE SWITCH IN LIEU OF THE COMPONENTS SHOWN WITHIN THIS DETAIL.

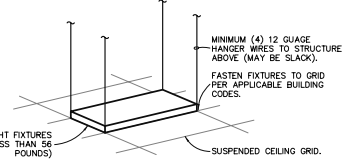
ALL PENETRATIONS OF FIRE-RESISTIVE FLOORS OR SHAFT WALLS SHALL BE PROTECTED BY MATERIALS AND INSTALLATION DETAILS THAT CONFORM TO UNDERWRITERS LABORATORIES LISTINGS FOR THROUGH-PENETRATION FIRE STOP SYSTEMS. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING DETAILS, FURNISHED BY THE MANUFACTURER OF THE FIRE STOP MATERIAL, WHICH SHOW COMPLETE CONFORMANCE TO THE UL LISTING FOR THE INSPECTORS. THE DRAWINGS SHALL BE SPECIFIC FOR EACH PENETRATION, WITH ALL VARIABLES DEFINED.



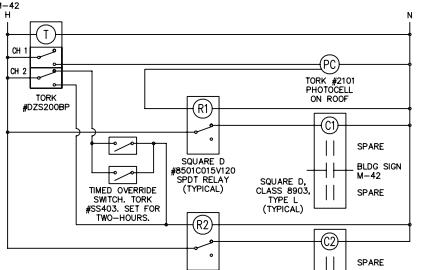
5 CONDUIT PENETRATION DETAIL
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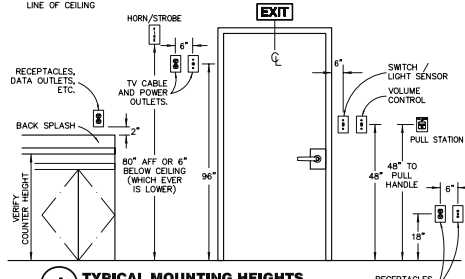
6 DOOR SECURITY CONTACT INSTALLATION DETAIL
NTS



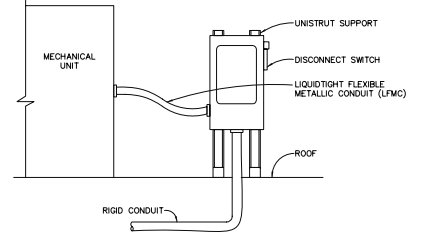
7 GRID TROFFER SUPPORT
NTS



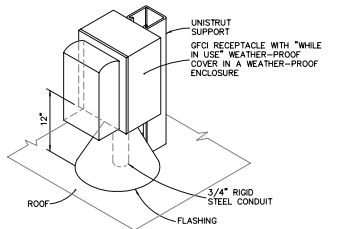
8 LIGHTING CONTACTOR - LC
NTS



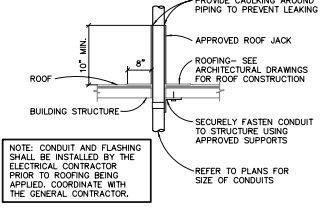
1 TYPICAL MOUNTING HEIGHTS
NTS



2 TYPICAL ROOF MOUNTED MECHANICAL UNIT CONNECTION
NTS



3 ROOF MOUNTED RECEPTACLE
NTS



4 CONDUIT THRU ROOF DETAIL
NTS

NOTE: CONDUIT AND FLASHING SHALL BE INSTALLED BY THE ELECTRICAL CONTRACTOR PRIOR TO ROOFING BEING APPLIED. COORDINATE WITH THE GENERAL CONTRACTOR.



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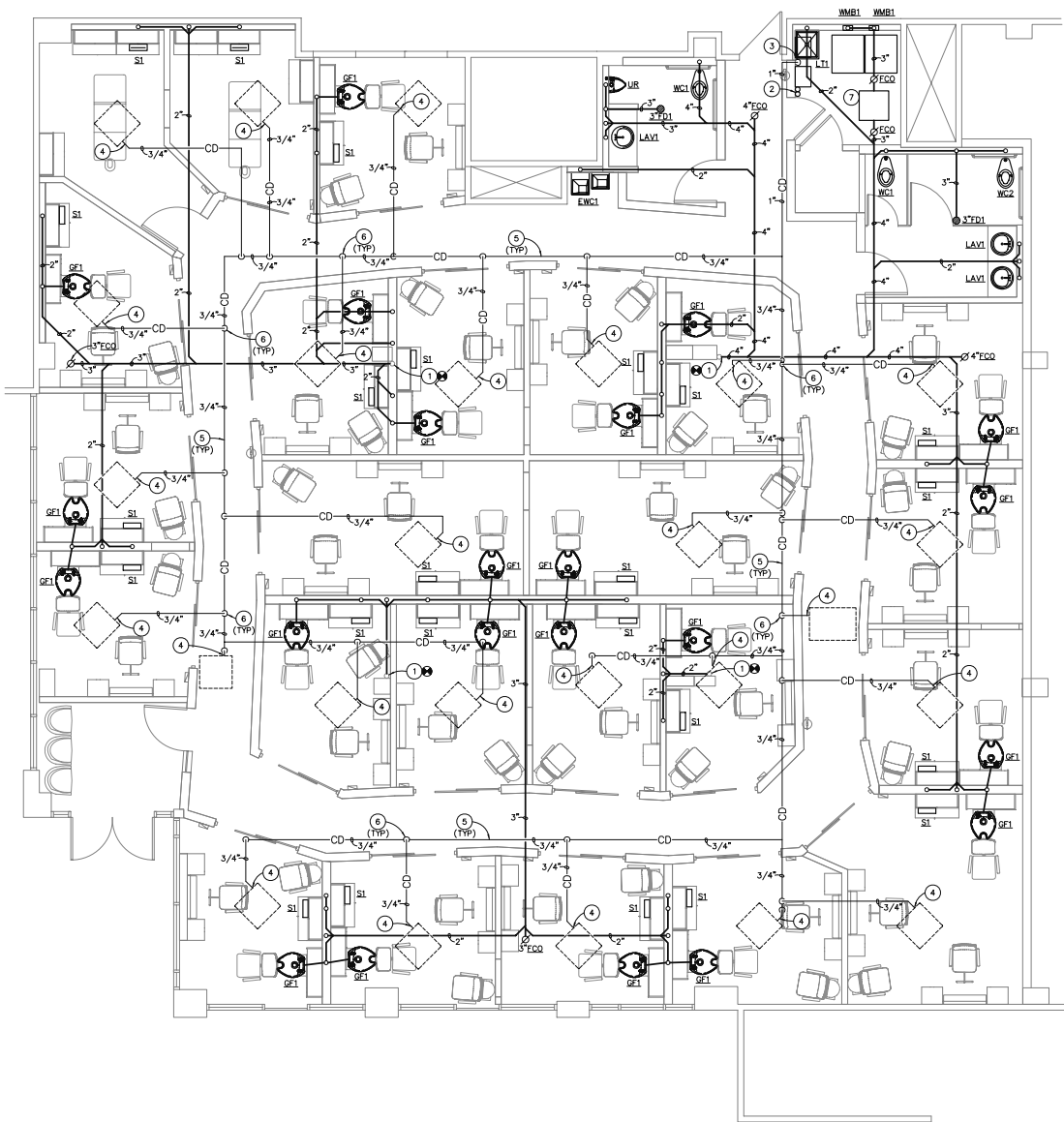
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Revisions

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CA-369

E-7.0
Electrical Details

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS AND FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS PRIOR TO CONSTRUCTION.



GENERAL NOTES

- A. THE EXISTING CONDITIONS ARE BASED ON "AS-BUILT" DRAWINGS AND/OR LIMITED FIELD VERIFICATIONS. THE CONTRACTOR SHALL ADJUST TO ACTUAL FIELD CONDITIONS AT NO ADDITIONAL EXPENSE TO THE PROJECT. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR ANY EXTRAS DUE TO THE CONTRACTOR'S FAILURE TO VISIT THE PROJECT SITE AND/OR PREDETERMINATION OF EXISTING CONDITIONS PRIOR TO SUBMITTING THE BID. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION.
- B. ALL PIPING, FIXTURES AND EQUIPMENT SHOWN ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
- C. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE GOVERNMENTAL AND LOCAL CODE REQUIREMENTS.
- D. REFER TO PLUMBING FIXTURE SCHEDULE FOR INDIVIDUAL PLUMBING FIXTURE CONNECTION SIZE REQUIREMENTS.
- E. THE CONTRACTOR SHALL OBTAIN A COPY OF THE LANDLORD'S TENANT CRITERIA MANUAL PRIOR TO BIDDING. THE TENANT CRITERIA MANUAL REQUIREMENTS SHALL BE INCLUDED IN THE CONTRACTOR CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE LANDLORD REQUIREMENTS AT NO ADDITIONAL EXPENSE TO THE PROJECT.
- F. ALL SANITARY LINES AND PLUMBING FIXTURES ON THE PROJECT SHALL HAVE AN APPROVED MEANS OF SEWAGE BACKFLOW PREVENTION. FIXTURE SPECIFIC BACKFLOW PREVENTION INCLUDING AIR GAPS AND VACUUM BREAKERS ARE AN ACCEPTABLE MEANS OF BACKFLOW PREVENTION.
- G. PIPE SIZES INDICATED ON THE PLANS ARE MINIMUM. THE CONTRACTOR SHALL PROVIDE PIPE SIZES EQUAL TO OR GREATER THAN THE SPECIFIED SIZES. THE CONTRACTOR MAY INCREASE THE PIPE SIZES AS REQUIRED AT NO ADDITIONAL EXPENSE TO THE PROJECT.
- H. COORDINATE ALL SLAB PENETRATIONS WITH GENERAL CONTRACTOR PRIOR TO CONSTRUCTION. MAINTAIN A MINIMUM OF 2" CLEARANCE FROM THE EDGE OF THE SLAB OPENING TO ANY STRUCTURAL MEMBERS OR PIPES.
- I. PROVIDE TEMPORARY COVERS, CAPS OR PLUGS ON SANITARY SEWER SYSTEM THROUGHOUT THE DURATION OF CONSTRUCTION. RAG MATS, DUCT TAPE, OR OTHER SIMILAR METHODS OF TEMPORARY COVERS SHALL NOT BE UTILIZED. UPON COMPLETION OF CONSTRUCTION, COMPLETELY REMOVE ANY AND ALL OBSTRUCTIONS INSIDE THE ENTIRE SYSTEM BY SHAWING, ROOFING, OR LETTING THE SYSTEM IMMEDIATELY PRIOR TO PROJECT TURNOVER TO THE OWNER.
- J. ALL BELOW GRADE SANITARY LINES SHALL BE A MINIMUM OF 2" OR IN ACCORDANCE LOCAL CODE REQUIREMENTS.
- K. SANITARY TEE FITTINGS SHALL NOT BE INSTALLED IN DRAIN, WASTE AND VENT (DWV) SYSTEMS.
- L. INSTALL SANITARY PIPING 3" OR SMALLER AT A SLOPE OF 1/4" PER FOOT AND SANITARY PIPING LARGER THAN 3" AT 1/8" PER FOOT.
- M. SEE WASTE AND VENT DIAGRAM ON SHEET P-3.0 FOR ALL WASTE AND VENT PIPE SIZES.

KEY NOTES

- 1. CONNECT NEW SANITARY SEWER PIPING TO EXISTING 4" SANITARY SEWER RISER. CONTRACTOR TO VERIFY EXACT LOCATION AND SIZE OF THE EXISTING SANITARY SEWER PRIOR TO CONSTRUCTION. ADJUST THE NEW SANITARY SEWER AS REQUIRED TO ALLOW FOR CONNECTION TO THE EXISTING SANITARY SEWER SYSTEM. MAINTAIN CODE MINIMUM PIPE SLOPES.
- 2. 4" WATER HEATER EXHAUST AND INTAKE MANIFOLDS UP THRU ROOF. SEE DETAIL.
- 3. ROUTE NEW 1" CONDENSATE DRAIN PIPING DOWN IN WALL TO NEW LAUNDRY TUB. TERMINATE WITH 1" AIR GAP ABOVE FLOOR RIM OF LAUNDRY TUB.
- 4. CONNECT NEW 3/4" CONDENSATE DRAIN PIPING TO NEW HVAC EQUIPMENT.
- 5. ROUTE CONDENSATE PIPING UP AS HIGH AS POSSIBLE. IF CONFLICTS OCCUR, NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY.
- 6. CONNECT PUMPED CONDENSATE PIPING INTO NEW GRAVITY CONDENSATE DRAIN LINE WITH INVERTED TRAP. SEE DETAIL #179-S.0.
- 7. ZURN MODEL Z1185-7 LINT INTERCEPTOR RECESSED BELOW FLOOR.

Plumbing Sanitary Sewer Plan
1/4" = 1'-0"



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Revisions

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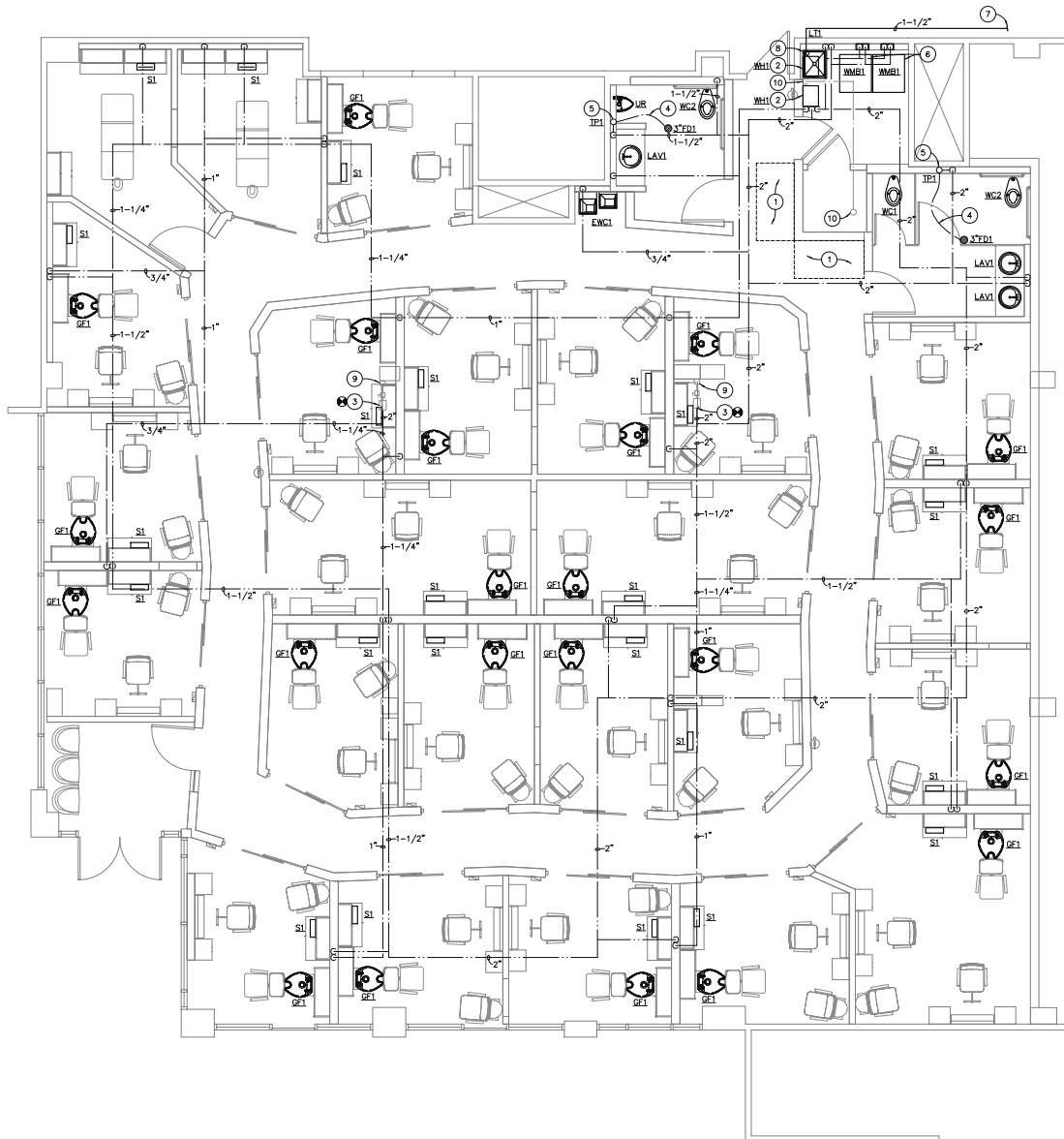
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P-2.0
Plumbing Sewer Plan

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AGENCIES.

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GENERAL NOTES

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- B. ALL PIPING, FIXTURES AND EQUIPMENT SHOWN ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
- C. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE GOVERNMENTAL AND LOCAL CODE REQUIREMENTS.
- D. REFER TO PLUMBING FIXTURE SCHEDULE FOR INDIVIDUAL PLUMBING FIXTURE CONNECTION SIZE REQUIREMENTS.
- E. THE CONTRACTOR SHALL OBTAIN A COPY OF THE LANDLORD'S TENANT CRITERIA MANUAL PRIOR TO BIDDING. THE TENANT CRITERIA MANUAL REQUIREMENTS SHALL BE INCLUDED IN THE CONTRACTOR CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE LANDLORD REQUIREMENTS AT NO ADDITIONAL EXPENSE TO THE PROJECT.
- F. ALL HANDICAPPED ACCESSIBLE WATER CLOSETS SHALL HAVE THE FLUSHING HANDLE ON THE WIDE SIDE OF THE HANDICAPPED ACCESSIBLE STALL AS REQUIRED BY ADA REQUIREMENTS.
- G. PIPE SIZES INDICATED ON THE PLANS ARE MINIMUM. THE CONTRACTOR SHALL PROVIDE PIPE SIZES EQUAL TO OR GREATER THAN THE SPECIFIED SIZES. THE CONTRACTOR MAY INCREASE THE PIPE SIZES AS REQUIRED AT NO ADDITIONAL EXPENSE TO THE PROJECT.
- H. SEE WATER DIAGRAM ON SHEET P-3.1 FOR ALL COLD AND HOT WATER PIPE SIZES.
- I. SEE GAS DIAGRAM ON SHEET P-3.2 FOR ALL GAS PIPING SIZES.

KEY NOTES

1. THIS SPACE IS RESERVED FOR ELECTRICAL EQUIPMENT. NO PIPING SHALL PASS BELOW, ABOVE, OR AROUND ELECTRICAL EQUIPMENT. PROVIDE CODE REQUIRED MINIMUM CLEARANCE ABOVE ELECTRICAL EQUIPMENT ACCESS SPACE.
2. (2) TANKLESS WATER HEATERS FURNISHED AND INSTALLED BY GENERAL CONTRACTOR THRU MY SALON NATIONAL. CONTRACTOR SHALL PROVIDE CONDENSATE MANIFOLD AND DISCHARGE TO THE LAUNDRY TUB BELOW. MAINTAIN A 2" MINIMUM AIR GAP. SEE DETAIL.
3. CONNECT NEW 2" DOMESTIC COLD WATER PIPING TO EXISTING 2" DOMESTIC COLD WATER PIPING CONNECTION WITH EXISTING 2" DOMESTIC COLD WATER METER TO REMAIN.
4. 1/2" FLEXIBLE CONTINUOUS TYPE "K" COPPER TUBING BELOW SLAB FROM TRAP PRIMER TO FLOOR DRAIN. NO FITTINGS OR SPLICES ARE ALLOWED BELOW SLAB.
5. INSTALL TRAP PRIMER HIGH IN CEILING SPACE. FURNISH AND INSTALL AN ACCESS PANEL AS NECESSARY TO MAINTAIN EQUIPMENT.
6. EXTEND 1/2" NATURAL GAS LINE TO SPEED QUEEN MODEL: AT0528P112W01 DRYERS PROVIDED BY ALLIANCE LAUNDRY SYSTEMS. CONNECT GAS SERVICE TO DRYERS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
7. EXTEND NEW 1-1/2" NATURAL GAS PIPING AND CONNECT TO EXISTING 3" NATURAL GAS PIPING IN ADJACENT SUITE. PROVIDE NEW NATURAL GAS METER SERVING 2410 MBH LOCATED IN METER BANK ON SIDE OF BUILDING. THE SYSTEM DESIGN IS BASED ON 0.25 PSI DELIVERY PRESSURE WITH A PRESSURE DROP OF 0.5 INCHES OF WATER COLUMN. THE CONTRACTOR SHALL COORDINATE THE METER LOCATION, AVAILABLE PRESSURE, AND SERVICE REQUIREMENTS WITH THE LOCAL UTILITY PRIOR TO CONSTRUCTION. IF THE DELIVERY PRESSURE INDICATED IS NOT AVAILABLE FROM THE UTILITY COMPANY, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY. SEE GAS DIAGRAM ON SHEET P-3.2 FOR SIZES AND LOCATION.
8. 1-1/2" NATURAL GAS PIPING DOWN WALL TO NEW TANKLESS WATER HEATERS AND NEW GAS DRYERS.
9. EXISTING 2" DOMESTIC COLD WATER RISER TO REMAIN.
10. EXISTING 3/4" DOMESTIC COLD WATER PIPING UP THRU SECOND FLOOR SLAB, UP WALL, THRU ROOF TO EXISTING ROOFTOP HOSE BIBB TO REMAIN. VERIFY EXACT LOCATION WITH NEW PLUMBING FIXTURE LAYOUT.

Plumbing Domestic Water & Gas Plan
 1/4" = 1'-0"



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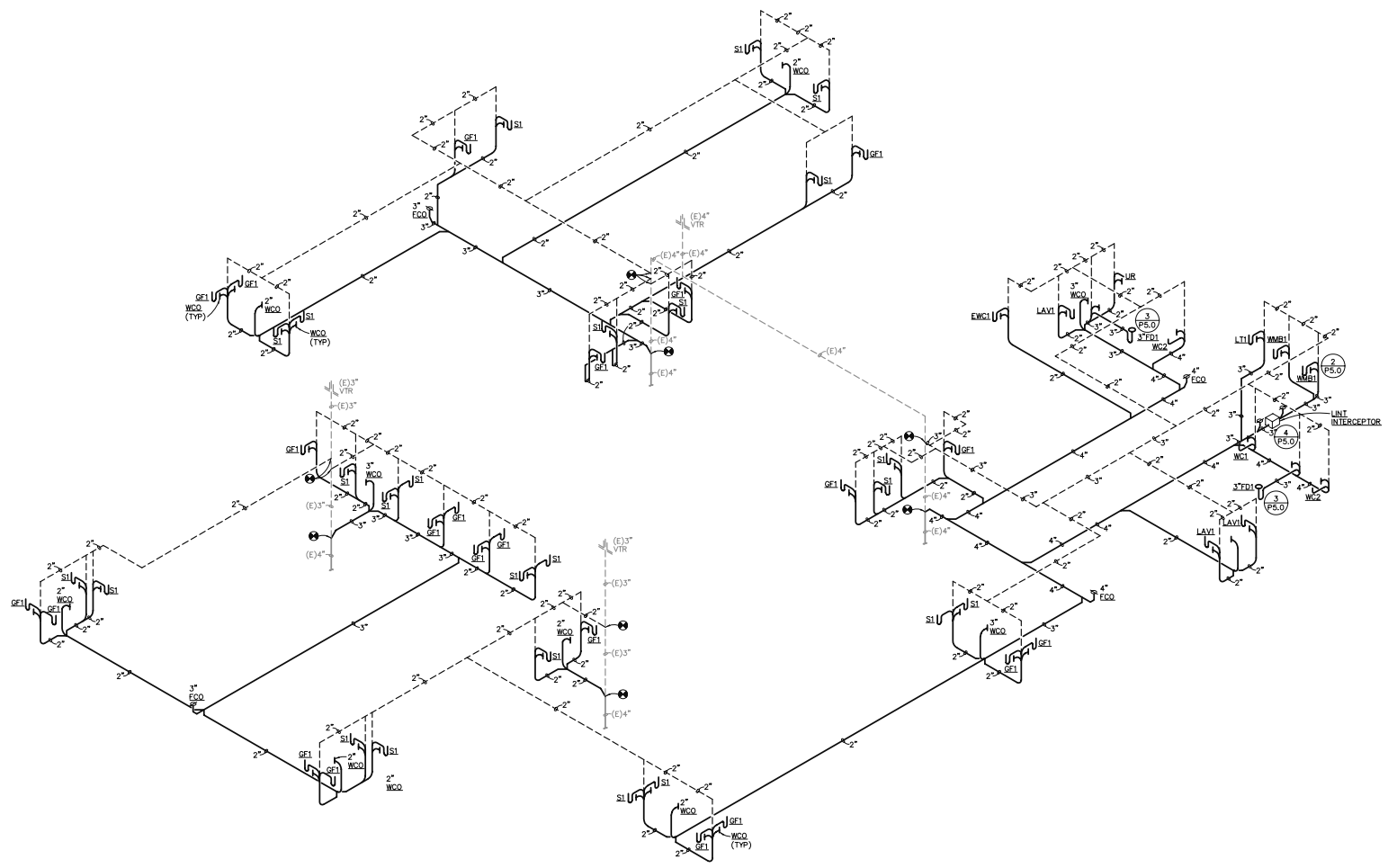
Revisions

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P-2.1
 Plumbing Water & Gas

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1 WASTE AND VENT DIAGRAM
NTS



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Revisions

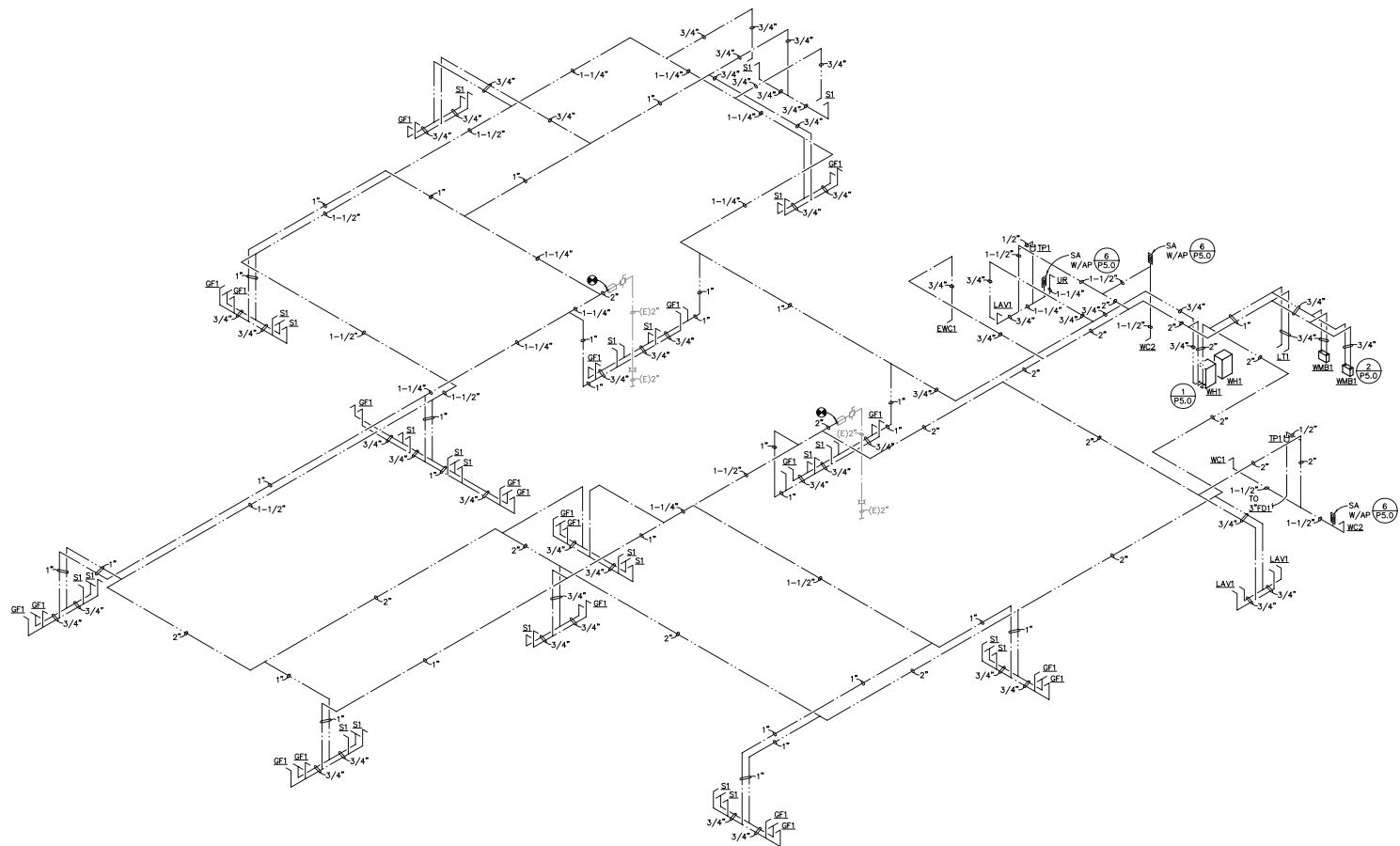
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P-3.0
Plumbing Diagrams

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1 WATER DIAGRAM
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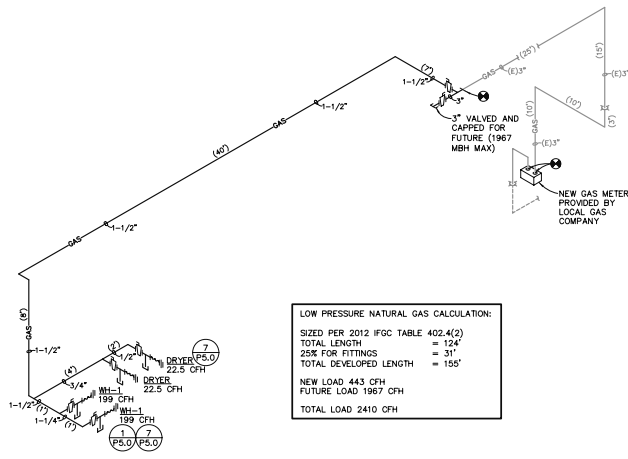
Revisions

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P-3.1
Plumbing Diagrams

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1 GAS DIAGRAM
NTS



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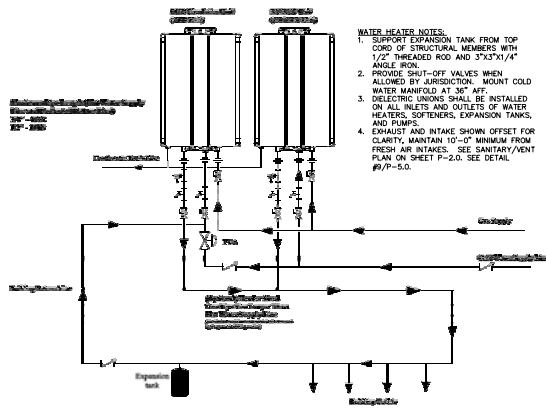
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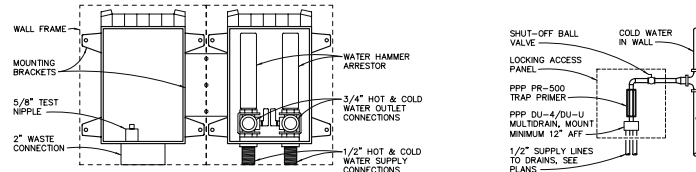
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P-3.2
Plumbing Diagrams

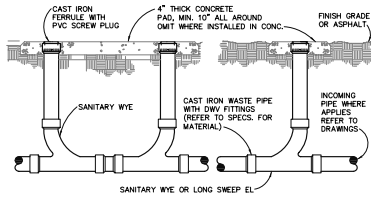


1 RINNAI WATER HEATER DETAIL
NTS



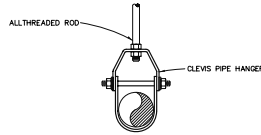
2 CLOTHES WASHER BOX DETAIL
NTS

3 TRAP PRIMER DETAIL
NTS



4 SURFACE CLEANOUT DETAIL
NTS

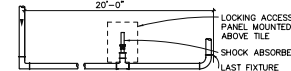
NOTE: ALL CLEANOUT LOCATIONS SHALL BE VERIFIED WITH ARCHITECT PRIOR TO INSTALLATION.



5 PIPE SUPPORT DETAIL
NTS

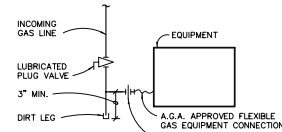
- NOTES:**
1. FOR BRANCH LINES 20'-0" OR LESS INSTALL S.A. BETWEEN LAST TWO FIXTURES
 2. FOR BRANCH LINES OVER 20'-0" TWO S.A. SHOULD BE USED THE SECOND ONE PLACED AT THE MIDPOINT OF THE LINE.
 3. PLUMBING CONTRACTOR SHALL PROVIDE SHOCK ABSORBERS BY SOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE #1010 AND ANSI #4112-26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES BELOW.

| PDI SIZE | PIPE SIZE | FIXTURE UNIT LOAD |
|----------|-----------|-------------------|
| A | 1/2" | 1-11 |
| B | 3/4" | 12-32 |
| C | 1" | 33-60 |
| D | 1-1/4" | 61-113 |
| C | 1-1/2" | 114-154 |
| D | 2" | 115-330 |

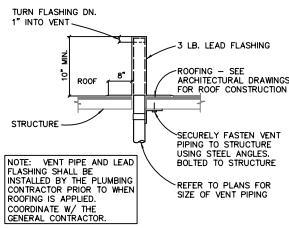


| FIXTURE UNIT TABULATION | FIXTURE UNIT TABULATION | |
|-------------------------|-------------------------|-----|
| | COLD | HOT |
| VALVE WATER CLOSET | 10 | -- |
| URINAL | 5 | -- |
| LAVATORY/SINK | 1.5 | 1.5 |
| LAUNDRY SINK | 3.0 | 3.0 |

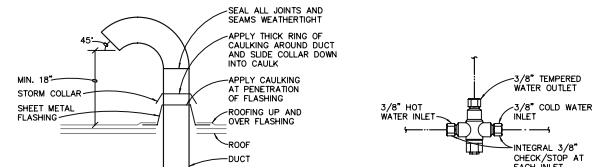
6 SHOCK ABSORBER DETAIL
NTS



7 GAS EQUIPMENT CONNECTION
NTS

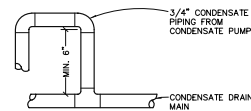


8 VENT THRU ROOF DETAIL
NTS



9 ROUND GOOSENECK DETAIL
NTS

10 MIXING VALVE DETAIL
NTS



11 INVERTED TRAP DETAIL
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P-5.0
Plumbing Diagrams

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