**Construction Logistics / Phasing Plan - Level 01**

- **Light Use Areas**
  - Occupancy: 1-10 occupants
  - Room Type: Office
  - 2 Exit Doors Required

- **Moderate Use Areas**
  - Occupancy: 11-25 occupants
  - Room Type: Conference Room
  - 3 Exit Doors Required
  - Longitudinal Path of Egress
  - Actual Exit Access Travel Distance: 25’

- **Heavy Use Areas**
  - Occupancy: 26-50 occupants
  - Room Type: Office
  - 4 Exit Doors Required
  - Shortest Path of Egress
  - Actual Exit Access Travel Distance: 15’

**Location**

- **School of Medicine Office**
  - Total Occupancy: 17 occupants
  - Restroom Break Room
  - Actual Exit Access Travel Distance: 25’

**Notes**

- **Existing Core & Shell**
  - The existing core & shell are to be preserved to the extent possible.

- **Demolition**
  - The contractor is responsible for preparing the area for demolition.

- **Temporary Work Area**
  - Temporary work areas will be provided by the contractor.

- **Temporary Storage**
  - Temporary storage areas will be provided by the contractor.

**Code Plan**

- **Code Compliance**
  - The project must comply with all applicable codes and standards.

- **Construction Phasing**
  - Phasing plans must be submitted for review and approval.

**Key Plan**

- **Project Location**
  - The project is located at 1111 NE 15th Ave, Miami, FL 33132.

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**Construction General Notes**

- **Code Plan**
  - The code plan must be submitted for review and approval.

- **Construction Phasing**
  - Phasing plans must be submitted for review and approval.

- **Construction Schedule**
  - The construction schedule must be submitted for review and approval.

**Project Description**

- **Project Type**
  - The project is a renovation of an existing office building.

- **Project Location**
  - The project is located at 1111 NE 15th Ave, Miami, FL 33132.

**Code of Record**

- **Building Code**
  - International Building Code - 2018

- **Electrical Code**
  - National Electrical Code - 2018

- **Sprinkler Code**
  - International Fire Code - 2018

**Building Occupancy**

- **Assembly**
  - Maximum Occupancy: 20'

- **Business**
  - Maximum Occupancy: 300'

**Means of Egress**

- **Exit Capacity**
  - Main Entrance: 150 occupants
  - Secondary Exit: 70 occupants

**Fire Protection**

- **Smoke Detection**
  - Smoke detectors must be installed in all areas.

- **Fire Sprinklers**
  - Fire sprinkler systems must be installed in all areas.

**Plumbing**

- **Facilities Provided**
  - First Floor
  - Restrooms
  - Showers
  - Support Services

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**Key Plan**

- **Project Location**
  - The project is located at 1111 NE 15th Ave, Miami, FL 33132.

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**Code Sheet**

- **G002**
  - SGA PROJECT 19054

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**Plumbing Facilities Provided - First Floor**

- **Restrooms**
  - Men's Restroom
  - Women's Restroom

- **Showers**
  - Men's Shower
  - Women's Shower

**Notes**

- **Temporary Work Area**
  - Temporary work areas will be provided by the contractor.

- **Temporary Storage**
  - Temporary storage areas will be provided by the contractor.
1. The ceiling grid and lights must be removed before construction begins for the room.

2. The existing fire suppression system must be removed and replaced as necessary.

3. Existing lighting fixtures must be removed and disposed of, as per MEP plan.

4. The ceiling grid and tiles must be removed and modified as necessary for the new space.

5. Existing equipment and systems must be removed and disposed of as necessary.

6. Existing grilles must be removed and disposed of as necessary.

7. The reflected ceiling plan must be updated to reflect the new space.

8. The lighting fixtures must be removed and replaced with new fixtures as necessary.

9. The acoustical panels and ceiling tiles must be removed and modified as necessary for the new space.

10. The overhead projector must be removed before the existing ceiling is removed.

11. The existing ceiling grid, tiles, light fixtures, and supply/return ducts must be removed.

12. The existing ceiling grid, tiles, light fixtures, and supply/return ducts must be removed.

13. The existing ceiling grid, tiles, light fixtures, and supply/return ducts must be removed.

14. The existing ceiling grid, tiles, light fixtures, and supply/return ducts must be removed.

15. The existing ceiling grid, tiles, light fixtures, and supply/return ducts must be removed.

16. The existing ceiling grid, tiles, light fixtures, and supply/return ducts must be removed.

17. The existing ceiling grid, tiles, light fixtures, and supply/return ducts must be removed.
FINISH SCHEDULE NOTES:

1. PROFESSIONAL PAINTING AS REQUIRED TO MEET SCHEDULED TIMELINE. IT IS A LAYING OFF PERIOD OF 72 HOURS AFTER PAINTING.
2. INSTALLATION PATTERN SPECIFICATION PER MANUFACTURER'S REQUIREMENTS.
3. GENERAL INTERIOR FINISH LEGEND:
   - WP: WATERPROOF
   - WRL: WOOD RAMP
   - CM: CEILING BASE
   - WB: WALL BASE
   - DS: DOOR SASH
   - PS: PULL SWITCH
   - PL: PULL LEVER
   - DD: DOUBLE DOORS
   - H: HANGING
   - G: CEILING GYPSUM BOARD
   - C: CEILING DRYWALL
   - P: POCKET DOOR
   - MT: MOUNTED
   - FT: FIXED
   - FS: FLEXIBLE
   - DIY: DO IT YOURSELF
   - MC: MASONRY WALL TILES
   - AB: ALUMINUM BUMPER
   - PB: PLATFORM BASE
   - PT: PLATFORM TILES
   - FB: FIXED BASE
   - PB: PLATFORM BASE

GENERAL FINISH NOTES:

1. CARPET TILES ARE INTENDED FOR INSTALLATION PATTERN SPECIFICATION.
2. CARPET TILES ARE INTENDED FOR INSTALLATION PATTERN SPECIFICATION.
3. CARPET TILES ARE INTENDED FOR INSTALLATION PATTERN SPECIFICATION.
4. CARPET TILES ARE INTENDED FOR INSTALLATION PATTERN SPECIFICATION.
PLUMBING SYMBOL LEGEND

1. HOT WATER
2. HOT WATER RECIRCULATION
3. SANITARY SEWER
4. VENT
5. COLD WATER
6. AIR
7. GAS
8. GAS METER
9. WATER METER
10. PIPE LINE TURNED UP / PIPE LINE TURNED DOWN
11. PUMP
12. M
13. G
14. VALVE
15. TIE INTO EXISTING
16. FILTERED WATER
17. EXISTING FIRE DEPARTMENT VALVE. FIRE SPRINKLER
18. CONTRACTOR SHALL DEMO VALVE AND PIPE TO ABOVE CEILING AND CAP AT SPRINKLER MAIN.

PLENUM SPACE NOTE

1. REFER TO P501 AND P601 FOR REMAINING POWER NOTES, LEGENDS, DETAILS & SCHEDULES
2. ALL PLUMBING FIXTURES AND PIPING LABELED 'EX' OR 'EXISTING' SHALL BE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
3. ALL EXISTING PLUMBING FIXTURES AND PIPING SHOWN ARE AN APPROXIMATION BASED ON EXISTING PLANS, SPECIFICATIONS, AND FIELD SURVEYS. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS OF PLUMBING FIXTURES AND PIPING PRIOR TO START OF CONSTRUCTION. PROVIDE REPORT TO OWNERS REPRESENTATIVE OF ALL DEVIATIONS WHICH WILL AFFECT RENOVATION / NEW INSTALLATIONS AS SHOWN ON THE PLANS.

PLENUM SPACE NOTES

CONSTRUCTION SHALL CONSIST OF NONCOMBUSTIBLE MATERIALS ABOVE CEILING

MATERIALS EXPOSED WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84.

GENERAL NOTES

1. CONTRACTOR SHALL REPLACE ANY EXISTING SUBURBAN AND ELECTRICAL CONDUIT WITH EMT CONDUIT OR HDG/STEEL EMT CONDUIT WHERE REQUIRED TO CONFORM TO LOCAL CODES.
2. CONTRACTOR SHALL REPLACE ANY EXISTING RIGID STEEL CONDUIT WITH EMT CONDUIT WHERE REQUIRED TO CONFORM TO LOCAL CODES.
3. CONTRACTOR SHALL REPLACE ANY EXISTING NON-FIRE-RATED RIGID STEEL CONDUIT WITH EMT CONDUIT WHERE REQUIRED TO CONFORM TO LOCAL CODES.
4. CONTRACTOR SHALL REPLACE ANY EXISTING NON-FIRE-RATED RIGID STEEL CONDUIT WITH EMT CONDUIT WHERE REQUIRED TO CONFORM TO LOCAL CODES.
5. CONTRACTOR SHALL REPLACE ANY EXISTING NON-FIRE-RATED RIGID STEEL CONDUIT WITH EMT CONDUIT WHERE REQUIRED TO CONFORM TO LOCAL CODES.
6. CONTRACTOR SHALL REPLACE ANY EXISTING NON-FIRE-RATED RIGID STEEL CONDUIT WITH EMT CONDUIT WHERE REQUIRED TO CONFORM TO LOCAL CODES.

PLUMBING PLENUM SPACE NOTES

CONTRACTOR SHALL USE NON COMBUSTIBLE OR PLENUM RATED MATERIALS ABOVE CEILING:
- EMT CONDUIT, CAST IRON SANITARY & VENT PIPING

SEE EACH SHEET FOR SPECIFIC PLENUM NOTES

FIRST FLR. PLUMBING DEMOLITION PLAN
PLENUM SPACE NOTE

The project includes a plenum space in accordance with the following requirements:

1. EMT conduit, cast iron sanitary and vent piping shall be non-combustible or plenum-rated materials above the ceiling.
2. Consult specific plenum notes on each sheet for further details.

PLUMBING PLUMBING NOTES

PLUMBING PLUMBING NOTES

GENERAL NOTES

1. All plumbing fixtures labeled 'EX' or 'EXISTING' shall be existing to remain unless otherwise noted.
2. All existing plumbing fixtures and piping shown are an approximation based on existing plans, specifications, and field surveys. Contractor shall field verify exact locations of plumbing fixtures and piping prior to the start of construction. Provide report to the owner's representative of all deviations which will affect renovation or new installations as shown on the plans.

FIRE PENETRATION NOTE

This project contains fire-rated assemblies. Locations are indicated on the architectural plans. All contractors shall provide protection for their penetrations through these assemblies as follows:

For all penetrations thru or into fire-rated vertical or horizontal assemblies:
- A UL-listed penetration firestop system shall be installed as tested in accordance with ASTM E 814 or UL 1479 (IBC 714.3). General contractor to provide and maintain a book with all fire penetration protective systems that will be used on this project. This book must remain on site at all times.

COORDINATE SANITARY PIPING WITH 1ST FLOOR PLAN SAW CUTTING. REFER TO ARCHITECTURAL PLAN SHEET A201.
PLENUM SPACE NOTE

This project includes a PLENUM SPACE. Contractors shall use non-combustible or plenum rated materials above ceiling:

- EMT conduit, cast iron sanitary & vent piping

See each sheet for specific plenum notes.

GENERAL NOTES

1. Refer to P501 and P601 for remaining power notes, legends, details & schedules.

2. All plumbing fixtures and piping labeled 'EX' or 'EXISTING' shall be existing to remain unless noted otherwise.

3. All existing plumbing fixtures and piping shown are an approximation based on existing plans, specifications, and field surveys. Contractor shall field verify exact locations of plumbing fixtures and piping prior to start of construction. Provide report to owners representative of all deviations which will affect renovation / new installations as shown on the plans.

PLENUM SPACE NOTE

This project includes a plenum space. Contractors shall use non-combustible or plenum rated materials above ceiling:

- EMT conduit, cast iron sanitary & vent piping

See each sheet for specific plenum notes.

PLUMBING PLENUM SPACE NOTES

Please note all plumbing fixtures and piping above ceiling with the following:

- All plumbing fixtures and piping above ceiling shall be labeled 'EXISTING' or 'EX' on all plans.

- Plumbing fixtures and piping shall be verified during construction to confirm locations and specifications and shall conform to the requirements of the local plumbing code. Any deviations from the plans shall be documented and approved in writing by the owner's representative before being implemented.

FIRE PENETRATION NOTE

This project contains fire rated assemblies. Locations are indicated on architectural plans. All contractors shall provide protection for their penetrations through these assemblies as follows:

For all penetrations through or into fire rated vertical or horizontal assemblies:

A UL Listed Penetration Firestop System shall be installed as tested in accordance with ASTM E 814 or UL 1479 (IBC 714.3). General contractor to provide and maintain a book with all fire penetration protective systems that will be used on this project. This book must remain on site at all times.
MECHANICAL PLenum SPACE NOTES

1. ALl PLenum EXISTING Ducts shall CONform TO SECTION 603 OF THE 2018 INTERNATIONAL MECHANICAL CODE.
2. MATTerials exposed WITHIN PleNUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 50 WHEN TESTed IN ACCORDANCE WITH ASTM E 84.
3. THIS SECTION SHALL NOT APPLY TO SMOKE DETectors.
4. ALL EXISTING EQUIPMENT, DuctWORK, AND DEVICES SHOWN ARE AN APPROXIMATION BASED ON EXISTING PLANS,
   WHICH WILL AFFECT DEMOLITION AS SHOWN ON THE PLANS.
5. CONTACT OWNER AT LEAST 7 DAYS BEFORE DEMOLITION WORK BEGINS. OWNER TO REMOVE CONTROLS.
6. PRIOR TO START OF DEMOLITION, ALL EXISTING VAV BOXES LOCATED IN AREA OF WORK SHALL BE DISCONNECTED FROM
   EXISTING THERMOSTAT TO REMAIN.
7. PROVIDe ALTERNATE PRICE TO REMOVE AND SALVAGE GRILLE TO BE REINSTALLED AT SAME LOCATION IN NEW CEILING
   GRID. SEE SHEET M101.
8. ALL HVAC DuctWORK SHOWN SHALL ROUTe IN SPACE ABOVE CEILING(S) UNLESS NOTED OTHERWISE.

GENERAL NOTES

1. REFER TO M501 AND M601 FOR REMAINING HVAC NOTES, LEGENDS, DETAILS & SCHEDULES
2. ALL HVAC DuctWORK SHOWN SHALL ROUTe IN SPACE ABOVE CEILING(S) UNLESS NOTED OTHERWISE.
3. THIS SECTION SHALL NOT APPLY TO SMOKE DETectors.
4. EXISTING ExHAUST DuctWORK SHALL BE DEMO’D MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTed IN ACCORDANCE WITH ASTM E 84.
5. MATERIALS EXPOSED WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT
   MORE THAN 50 WHEN TESTed IN ACCORDANCE WITH ASTM E 84.

KEY NOTES

1. REFER TO M501 AND M601 FOR REMAINING HVAC NOTES, LEGENDS, DETAILS & SCHEDULES
2. ALL HVAC DuctWORK SHOWN SHALL ROUTe IN SPACE ABOVE CEILING(S) UNLESS NOTED OTHERWISE.
3. THIS SECTION SHALL NOT APPLY TO SMOKE DETectors.
4. EXISTING ExHAUST DuctWORK SHALL BE DEMO’D MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTed IN ACCORDANCE WITH ASTM E 84.
5. MATERIALS EXPOSED WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT
   MORE THAN 50 WHEN TESTed IN ACCORDANCE WITH ASTM E 84.
6. CONTACT OWNER AT LEAST 7 DAYS BEFORE DEMOLITION WORK BEGINS. OWNER TO REMOVE CONTROLS.
7. PRIOR TO START OF DEMOLITION, ALL EXISTING VAV BOXES LOCATED IN AREA OF WORK SHALL BE DISCONNECTED FROM
   EXISTING THERMOSTAT TO REMAIN.
8. PROVIDe ALTERNATE PRICE TO REMOVE AND SALVAGE GRILLE TO BE REINSTALLED AT SAME LOCATION IN NEW CEILING
   GRID. SEE SHEET M101.

GENERAL CONSTRUCTION NOTES

1. REFER TO M501 AND M601 FOR REMAINING HVAC NOTES, LEGENDS, DETAILS & SCHEDULES
2. ALL HVAC DuctWORK SHOWN SHALL ROUTe IN SPACE ABOVE CEILING(S) UNLESS NOTED OTHERWISE.
3. THIS SECTION SHALL NOT APPLY TO SMOKE DETectors.
4. EXISTING ExHAUST DuctWORK SHALL BE DEMO’D MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTed IN ACCORDANCE WITH ASTM E 84.
5. MATERIALS EXPOSED WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT
   MORE THAN 50 WHEN TESTed IN ACCORDANCE WITH ASTM E 84.
6. CONTACT OWNER AT LEAST 7 DAYS BEFORE DEMOLITION WORK BEGINS. OWNER TO REMOVE CONTROLS.
7. PRIOR TO START OF DEMOLITION, ALL EXISTING VAV BOXES LOCATED IN AREA OF WORK SHALL BE DISCONNECTED FROM
   EXISTING THERMOSTAT TO REMAIN.
8. PROVIDe ALTERNATE PRICE TO REMOVE AND SALVAGE GRILLE TO BE REINSTALLED AT SAME LOCATION IN NEW CEILING
   GRID. SEE SHEET M101.
GENERAL NOTES
1. REFER TO M501 AND M601 FOR REMAINING HVAC NOTES, LEGENDS, DETAILS & SCHEDULES
2. ALL NEW PIPING SHOWN SHALL ROUTE IN SPACE ABOVE CEILING(S) UNLESS NOTED OTHERWISE.
3. ALL EQUIPMENT, PIPING, AND DEVICES LABELED 'EX.' OR 'EXISTING' SHALL BE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
4. ALL EXISTING EQUIPMENT, PIPING, AND DEVICES SHOWN ARE AN APPROXIMATION BASED ON EXISTING PLANS, SPECIFICATIONS, AND FIELD SURVEYS. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS OF EQUIPMENT, PIPING, AND DEVICES PRIOR TO START OF CONSTRUCTION. PROVIDE REPORT TO OWNERS REPRESENTATIVE OF ALL DEVIATIONS WHICH WILL AFFECT DEMOLITION AS SHOWN ON THE PLANS.

MECHANICAL PLENUM SPACE NOTES
MECHANICAL:
MATERIALS EXPOSED WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84.

EXCEPTIONS:
1. RIGID AND FLEXIBLE DUCTS AND CONNECTORS SHALL CONFORM TO SECTION 603 OF THE 2015 INTERNATIONAL MECHANICAL CODE.
2. DUCT COVERINGS, LININGS, TAPE AND CONNECTORS SHALL CONFORM TO SECTIONS 603 AND 604 OF THE 2015 INTERNATIONAL MECHANICAL CODE.
3. THIS SECTION SHALL NOT APPLY TO SMOKE DETECTORS.

KEY NOTES
1. SENSOR VALVES Labled TO BE DEMO'D.
2. DEAD END PIPING Labled TO BE DEMO'D.
3. SHUNT RELAY Labled TO BE DEMO'D.
4. HEATING元件 Labled TO BE DEMO'D.
5. WATER HEATER Labled TO BE DEMO'D.
6. soaking TANKS Labled TO BE DEMO'D.
7. STEAM HEATING Labled TO BE DEMO'D.
8. SOFT WATER GENERATOR Labled TO BE DEMO'D.
9. ELECTRICAL Labled TO BE DEMO'D.
10. MACHINERY Labled TO BE DEMO'D.
11. CONVECTION HEATING Labled TO BE DEMO'D.
12. STORAGE TANKS Labled TO BE DEMO'D.
13. WATER TREATMENT EQUIPMENT Labled TO BE DEMO'D.
14. WATER HEATING EQUIPMENT Labled TO BE DEMO'D.
15. DISTILLATION EQUIPMENT Labled TO BE DEMO'D.
16. AIR CONDITIONING EQUIPMENT Labled TO BE DEMO'D.
17. AIR HEATING EQUIPMENT Labled TO BE DEMO'D.
18. AIR COOLING EQUIPMENT Labled TO BE DEMO'D.
19. AIR DEHUMIDIFYING EQUIPMENT Labled TO BE DEMO'D.
20. AIR COMPRESSION EQUIPMENT Labled TO BE DEMO'D.
21. AIR DRYING EQUIPMENT Labled TO BE DEMO'D.
22. AIR FILTERS Labled TO BE DEMO'D.
23. AIR DUCTS Labled TO BE DEMO'D.
24. AIR INTAKES Labled TO BE DEMO'D.
25. AIR EXHAUSTS Labled TO BE DEMO'D.
26. AIR HANDLING UNITS Labled TO BE DEMO'D.
27. AIR CONDITIONING UNITS Labled TO BE DEMO'D.
28. AIR COOLERS Labled TO BE DEMO'D.
29. AIR HEATERS Labled TO BE DEMO'D.
30. AIR HEAT EXCHANGERS Labled TO BE DEMO'D.
31. AIR COMPRESSORS Labled TO BE DEMO'D.
32. AIR TREATMENT EQUIPMENT Labled TO BE DEMO'D.
33. AIR WASHERS Labled TO BE DEMO'D.
34. AIR SCRUBBERS Labled TO BE DEMO'D.
35. AIR OXIDIZERS Labled TO BE DEMO'D.
36. AIR STRIPPLERS Labled TO BE DEMO'D.
37. AIR ENTRAINMENT EQUIPMENT Labled TO BE DEMO'D.
38. AIR SPRAY TANKS Labled TO BE DEMO'D.
39. AIR SPRAY TANKS Labled TO BE DEMO'D.
40. AIR SPRAY DEHUMIDIFYING EQUIPMENT Labled TO BE DEMO'D.
41. AIR SPRAY COOLING EQUIPMENT Labled TO BE DEMO'D.
42. AIR SPRAY COMPRESSORS Labled TO BE DEMO'D.
43. AIR SPRAY DRYING EQUIPMENT Labled TO BE DEMO'D.
44. AIR SPRAY FILTERS Labled TO BE DEMO'D.
45. AIR SPRAY INTAKES Labled TO BE DEMO'D.
46. AIR SPRAY EXHAUSTS Labled TO BE DEMO'D.
47. AIR SPRAY HANDLING UNITS Labled TO BE DEMO'D.
48. AIR SPRAY COOLERS Labled TO BE DEMO'D.
49. AIR SPRAY HEATERS Labled TO BE DEMO'D.
50. AIR SPRAY HEAT EXCHANGERS Labled TO BE DEMO'D.
51. AIR SPRAY COMPRESSORS Labled TO BE DEMO'D.
52. AIR SPRAY TREATMENT EQUIPMENT Labled TO BE DEMO'D.
53. AIR SPRAY WASHERS Labled TO BE DEMO'D.
54. AIR SPRAY SCRUBBERS Labled TO BE DEMO'D.
55. AIR SPRAY OXIDIZERS Labled TO BE DEMO'D.
56. AIR SPRAY STRIPPLERS Labled TO BE DEMO'D.
57. AIR SPRAY ENTRAINMENT EQUIPMENT Labled TO BE DEMO'D.
58. AIR SPRAY SPRAY TANKS Labled TO BE DEMO'D.
59. AIR SPRAY SPRAY TANKS Labled TO BE DEMO'D.
60. AIR SPRAY SPRAY DEHUMIDIFYING EQUIPMENT Labled TO BE DEMO'D.
61. AIR SPRAY SPRAY COOLING EQUIPMENT Labled TO BE DEMO'D.
62. AIR SPRAY SPRAY COMPRESSORS Labled TO BE DEMO'D.
63. AIR SPRAY SPRAY DRYING EQUIPMENT Labled TO BE DEMO'D.
64. AIR SPRAY SPRAY FILTERS Labled TO BE DEMO'D.
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68. AIR SPRAY SPRAY COOLERS Labled TO BE DEMO'D.
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70. AIR SPRAY SPRAY HEAT EXCHANGERS Labled TO BE DEMO'D.
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79. AIR SPRAY SPRAY SPRAY TANKS Labled TO BE DEMO'D.
80. AIR SPRAY SPRAY SPRAY DEHUMIDIFYING EQUIPMENT Labled TO BE DEMO'D.
81. AIR SPRAY SPRAY SPRAY COOLING EQUIPMENT Labled TO BE DEMO'D.
82. AIR SPRAY SPRAY SPRAY COMPRESSORS Labled TO BE DEMO'D.
83. AIR SPRAY SPRAY SPRAY DRYING EQUIPMENT Labled TO BE DEMO'D.
84. AIR SPRAY SPRAY SPRAY FILTERS Labled TO BE DEMO'D.
85. AIR SPRAY SPRAY SPRAY INTAKES Labled TO BE DEMO'D.
86. AIR SPRAY SPRAY SPRAY EXHAUSTS Labled TO BE DEMO'D.
87. AIR SPRAY SPRAY SPRAY HANDLING UNITS Labled TO BE DEMO'D.
88. AIR SPRAY SPRAY SPRAY COOLERS Labled TO BE DEMO'D.
89. AIR SPRAY SPRAY SPRAY HEATERS Labled TO BE DEMO'D.
90. AIR SPRAY SPRAY SPRAY HEAT EXCHANGERS Labled TO BE DEMO'D.
91. AIR SPRAY SPRAY SPRAY COMPRESSORS Labled TO BE DEMO'D.
92. AIR SPRAY SPRAY SPRAY TREATMENT EQUIPMENT Labled TO BE DEMO'D.
93. AIR SPRAY SPRAY SPRAY WASHERS Labled TO BE DEMO'D.
94. AIR SPRAY SPRAY SPRAY SCRUBBERS Labled TO BE DEMO'D.
95. AIR SPRAY SPRAY SPRAY OXIDIZERS Labled TO BE DEMO'D.
96. AIR SPRAY SPRAY SPRAY STRIPPLERS Labled TO BE DEMO'D.
97. AIR SPRAY SPRAY SPRAY ENTRAINMENT EQUIPMENT Labled TO BE DEMO'D.
98. AIR SPRAY SPRAY SPRAY SPRAY TANKS Labled TO BE DEMO'D.
MECHANICAL PLENUM SPACE NOTES

1. RIGID AND FLEXIBLE DUCTS AND CONNECTORS SHALL CONFORM TO SECTION 603 OF THE 2018 INTERNATIONAL MECHANICAL CODE.

2. DUCT COVERINGS, LININGS, TAPE AND CONNECTORS SHALL CONFORM TO SECTIONS 603 AND 604 OF THE 2015 INTERNATIONAL MECHANICAL CODE.

3. THIS SECTION SHALL NOT APPLY TO SMOKE DETECTORS.

3. ALL EQUIPMENT, PIPING, AND DEVICES LABELED 'EX.' OR 'EXISTING' SHALL BE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.

4. ALL EXISTING EQUIPMENT, PIPING, AND DEVICES SHOWN ARE AN APPROXIMATION BASED ON EXISTING PLANS, THIS PROJECT CONTAINS FIRE RATED ASSEMBLIES. LOCATIONS ARE INDICATED ON ARCHITECTURAL DRAWINGS.

GENERAL NOTES

- EMERGENCY ELECTRICAL MACHINERY EXCEPTED TO EXISTING PLANS.
- ALL GROUND WIRING SHALL BE EXISTING UNLESS NOTED OTHERWISE.
- ALL EXISTING MACHINERY AND EQUIPMENT EXCEPTED TO EXISTING PLANS.
- NO ADDITIONAL MACHINERY OR EQUIPMENT DESIGNATED TO BE INSTALLED.
- PROVIDE REPORT TO OWNERS REPRESENTATIVE OF ALL DEVIATIONS WHICH OCCUR PRIOR TO START OF CONSTRUCTION.

EXCEPTIONS:

MECHANICAL:

- EMT CONDUIT, CAST IRON SANITARY & VENT PIPING

CONTRACTORS SHALL USE NON COMBUSTIBLE OR PLENUM RATED MATERIALS ABOVE CEILING:

- FIRE PENETRATION NOTE

- DRAW ALL CONSTRUCTION DETAILING PER VENDOR SPECIFICATIONS.
- DRAW ALL CONSTRUCTION DETAILING PER VENDOR SPECIFICATIONS.
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NOTES:
1. VAV TERMINAL INCLUDES CONSTANT VOLUME (CV) CAPS & VARIABLE AIR VOLUME (VAV) UNITS. UNLESS OTHERWISE NOTED ALL CONTROL WORK SHALL BE PERFORMED BY CONTRACTOR.
2. CAPS FOR VAV TEST PORTS MUST BE 1/4" BRASS PLUGS.

KEYED NOTES:
1. NETWORK SENSOR WILL BE FURNISHED & INSTALLED BY CONTRACTOR. NETWORK SENSOR WILL BE JCI SERIES.
2. FC COMMUNICATION BUS WIRE SHOWN ON DRAWING IS NOT INCLUDED IN THE FC COMMUNICATION BUS WIRE TO BE PROVIDED & INSTALLED.
3. AIR POSTIONING VALVE ASSIGNED TO VAV CONTROLLERS.

FC BUS SCHEMATIC DIAGRAM

PHSHMA - ENCLOSED AC POWER

SUPPLY WIRING DIAGRAM

NOTES:
1. VAV TERMINAL INCLUDES CONSTANT VOLUME (CV) CAPS & VARIABLE AIR VOLUME (VAV) UNITS. UNLESS OTHERWISE NOTED ALL CONTROL WORK SHALL BE PERFORMED BY CONTRACTOR.
2. CAPS FOR VAV TEST PORTS MUST BE 1/4" BRASS PLUGS.

KEYED NOTES:
1. CONTROLLER WILL BE FURNISHED & INSTALLED BY CONTRACTOR. CONTROLLER WILL BE JCI SERIES. PROGRAMMING AND COMMISSIONING WILL BE PERFORMED BY CONTRACTOR.
2. NETWORK SENSOR WILL BE FURNISHED & INSTALLED BY CONTRACTOR. NETWORK SENSOR WILL BE JCI SERIES.
3. FC COMMUNICATION BUS WIRE SHOWN ON DRAWING IS NOT INCLUDED IN THE FC COMMUNICATION BUS WIRE TO BE PROVIDED & INSTALLED.
4. AIR POSTIONING VALVE ASSIGNED TO VAV CONTROLLERS.

VAV BOX CONTROL DIAGRAM WITH HEAT ELECTRIC ACTUATION

FIRST FLOOR

TYP. VAV UNIT INSTALLATION DETAIL

NOTES:
1. SENSOR LOCATION FOR AIR POSTIONING VALVE (BPV) & AIR POSTIONING DAMPER (APD)
2. INSTALLATION OF OCC SENSOR IS WORK OF DIVISION 26, SEE E-SERIES SHEETS FOR FINAL LOCATIONS. A CONTROL CIRCUIT SHALL BE CONNECTED TO ALL OCC NETWORK SENSOR WILL BE FURNISHED BY OWNER & INSTALLED BY CONTRACTOR. NETWORK SENSOR WILL BE JCI NS SERIES.
3. LOCATION OF SHUT-OFF VALVES, UNIONS AND FLANGES TO BE ACCESSIBLE. ANY OTHER LOCATION MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE.

SCALE:  NONE
### Diffuser NOS Box Schedules

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1. REFER TO E501 AND E601 FOR REMAINING POWER NOTES, LEGENDS, DETAILS & SCHEDULES.

2. ALL GEAR, RECEPTACLES, CONDUIT, AND CONDUCTORS LABELED 'EX' OR 'EXISTING' SHALL BE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.

3. ALL RECEPTACLES ON DEMO'D WALLS SHALL BE DEMO'D REMOVE ALL CONDUIT AND CONDUCTORS BACK TO ORIGIN. SEE FIELD SURVEYS. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS OF GEAR, RECEPTACLES, AND DEVICES PRIOR TO START OF CONSTRUCTION. PROVIDE REPORT TO OWNERS REPRESENTATIVE OF ALL DEVIATIONS WHICH WILL AFFECT ARCHITECTURAL PLANS FOR DEMO'D WALL LOCATIONS.

4. ALL EXISTING GEAR, CONDUIT, AND DEVICES SHOWN ARE AN APPROXIMATION BASED ON EXISTING PLANS, SPECIFICATIONS, AND FIELD SURVEYS.

KEY NOTES

- REMOVE AND RELOCATE EXISTING RESCUE ASSISTANCE PANEL. REMOVE CONDUCTORS TO ABOUT CEILING AND POWERED SIGN TO BE DEMOLISHED, REMOVE J-BOX & PREP FOR NEW CONNECTION/EXTENSION. SEE SHEET 103/HSL144 FOR NEW PANEL LOCATION.

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FIRST FLR. LIGHTING DEMO PLAN

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

GENERAL NOTES
1. REFER TO E501 AND E601 FOR REMAINING POWER NOTES, LEGENDS, DETAILS & SCHEDULES
2. ALL LIGHT FIXTURES AND DEVICES LABELED 'EX' OR 'EXISTING' SHALL BE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
3. ALL LIGHT FIXTURES / DEVICES TO BE DEMO'D IN AREA OF WORK ARE SHOWN DASHED ON THIS SHEET. REMOVE CONDUCTORS TO NEAREST J-BOX AT DEMO'D LIGHT FIXTURE LOCATIONS.
4. ALL EXISTING LIGHT FIXTURES AND DEVICES SHOWN ARE AN APPROXIMATION BASED ON EXISTING PLANS, SPECIFICATIONS, AND FIELD SURVEYS. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS OF EQUIPMENT, LIGHT FIXTURES, AND DEVICES PRIOR TO START OF CONSTRUCTION. PROVIDE REPORT TO OWNERS REPRESENTATIVE OF ALL DEVIATIONS WHICH WILL AFFECT RENOVATION / NEW INSTALLATIONS AS SHOWN ON THE PLANS.

KEY NOTES
1. EXISTING LIGHT FIXTURE TO REMAIN.
2. EXISTING DEVICE TO REMAIN.
3. DEMOLISH EXISTING FIXTURE. EXISTING WIRING SHALL REMAIN FOR NEW LIGHT FIXTURE. SEE SHEET EL101 FOR NEW FIXTURES AND LOCATIONS

CONTRACTOR SHALL PROVIDE ALTERNATE PRICE FOR WORK THIS AREA UNDER "ALTERNATE BID #2". SEE ARCHITECTURAL PLANS FOR ADDITIONAL ALTERNATE BID #2 INFORMATION.
1. REFER TO E501 AND E601 FOR REMAINING POWER NOTES, LEGENDS, DETAILS & SCHEDULES UNLESS NOTED OTHERWISE. MOUNTING HEIGHTS OF ALL OTHER DEVICES SHALL BE PER MANUFACTURER’S RECOMMENDATIONS.

2. ALL GEAR, RECEPTACLES, CONDUIT, AND CONDUCTORS LABELED ‘EX’ OR ‘EXISTING’ SHALL BE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.

3. ALL RECEPTACLES ON DEMO’D WALLS SHALL BE DEMO’D REMOVE ALL CONDUIT AND CONDUCTORS BACK TO ORIGIN. SEE EACH SHEET FOR SPECIFIC PLENUM NOTES.

4. ALL EXISTING GEAR, CONDUIT, AND DEVICES SHOWN ARE AN APPROXIMATION BASED ON EXISTING PLANS, SPECIFICATIONS, AND NOT GREATER THAN 0.15 WHEN TESTED IN ACCORDANCE WITH UL 2043. COMBUSTIBLE ELECTRICAL EQUIPMENT EXPOSED WITHIN A PLENUM SHALL HAVE A PEAK RATE OF HEAT RELEASE NOT GREATER THAN 100 KILO-WATTS, A PEAK OPTICAL DENSITY NOT GREATER THAN 0.50, AND AN AVERAGE OPTICAL DENSITY IN FLOOR DATA (WIREMOLD 880 MP FLOOR BOX OR EQUAL).

KEY NOTES
- “E” INDICATES EXISTING RECEPTACLE TO REMAIN
- “C” INDICATES ABOVE CEILING
- “J” INDICATES ABOVE CEILING ABOVE REMOVED RESCUE ASSISTANCE PANEL LOCATION FOR LINE VOLTAGE CONDUCTORS FEEDING REMOVED PANEL.

PLACED CONDUIT FROM STRIKE IN DOOR FRAME TO ACCESSIBLE POINT IN FLOOR DATA (WIREMOLD 880 MP FLOOR BOX OR EQUAL)

NO WORK THIS AREA

FIRE PENETRATION NOTES
- ALL ACCESS TO EXISTING RECEPTACLE IS PLENUM RATED OPTICAL FIBER RACEWAY.
- ALL ACCESS TO EXISTING RECEPTACLE IS PLENUM RATED NONCONDUCTIVE OPTICAL FIBER CABLE

PLANGENUM SPACE NOTE
- CONTRACTOR SHALL LICENSE AND REVIEW ALL NECESSARY J-BOXES, OWNER TO TERMINATE. DATA CABLE SHOULD BE INSTALLED MOUNTING HEIGHT (INCHES) INTO EXISTING JUNCTION BOX.

GENERAL NOTES
- PLENUM SPACE NOTES ARE RECOMMENDED TO BE REVIEWED. CONSULT CONTRACTOR FOR PLENUM SPACE NOTES.
- FIRE PENETRATION NOTES ARE RECOMMENDED TO BE REVIEWED. CONSULT CONTRACTOR FOR FIRE PENETRATION NOTES.
- ALL WORK MUST BE AUTHORIZED AND CORDONED OFF. ALL EXISTING PLANS MUST BE UPDATED PER PLANS.
- ALL CONDUIT AND INSULATION MUST BE COMPLIANT WITH UL 2043.

NOTES TO CONTRACTOR:
- PROVIDE ALL ACCESS TO EXISTING RECEPTACLE IS PLENUM RATED OPTICAL FIBER RACEWAY.
- PROVIDE ALL ACCESS TO EXISTING RECEPTACLE IS PLENUM RATED NONCONDUCTIVE OPTICAL FIBER CABLE

COMBUSTIBLE ELECTRICAL OR ELECTRONIC WIRING METHODS AND MATERIALS, OPTICAL FIBER CABLE, AND OPTICAL FIBER CABLE.

SECURITY SYMBOL KEY
- KEY PLAN
- WALLS TO BE CAT6A. 2 DATA CABLE PER SYMBOL.
- PHONE / DATA CABLING TO BE PLENUM RATED. DATA CABLING IN ACCORDANCE WITH UL 910. ONLY TYPE OFNP (PLENUM RATED NONCONDUCTIVE OPTICAL FIBER CABLE) SHALL BE ALLOWED.
- DATA / TELEPHONE JACK (MOUNTED @ 18" AFF U.N.O.)
- QUADPLEX CONVENIENCE OUTLET
- 208V OUTLET
- G = GLASS BREAK DETECTOR (CEILING MOUNTED U.N.O.)
- K = KEYPAD (WALL MOUNTED WITH TOP ROW OF KEYS 48" AFF)
- M = MOTION DETECTOR
- R = CARD READER (WALL MOUNTED WITH READER CENTERED 48" AFF)
- C = CAMERA
- INDICATES TYPE
- INDICATES MOUNTING
COMBUSTIBLE ELECTRICAL EQUIPMENT WITHIN A PLENUM SHALL CONFORM TO THE FOLLOWING:

THIS PROJECT INCLUDES A PLENUM SPACE.

ISOLATED RELAY INTERFACE EQUAL TO WATTSTOPPER # LMRC-100

EXISTING LIGHT FIXTURE AND ASSOCIATED CIRCUITING TO REMAIN.

INSTALLED IN A PLENUM RATED OPTICAL FIBER RACEWAY.

IN ACCORDANCE WITH UL 910.  ONLY TYPE OFNP (PLEASE RATED NONCONDUCTIVE OPTICAL FIBER CABLE) SHALL BE LISTED AND LABELED.

FIBER RACEWAY EXPOSED WITHIN A PLENUM SHALL HAVE A PEAK OPTICAL DENSITY NOT GREATER THAN 0.50, AN AVERAGE OPTICAL DENSITY NOT GREATER THAN 0.15, AND A FLAME SPREAD NOT GREATER THAN 5 FEET WHEN TESTED.

USED ON THIS PROJECT. THIS BOOK MUST REMAIN ON SITE AT ALL TIMES.

DIMMER SWITCH

CEILING MOUNTED (DLM) VACANCY SENSOR EQUAL TO WATTSTOPPER #LMDC-100VC2

CEILING MOUNTED LOW VOLTAGE VACANCY SENSOR EQUAL TO WATTSTOPPER # DT-300VC1

CEILING MOUNTED LINE VOLTAGE OCCUPANCY SENSOR EQUAL TO WATTSTOPPER # DT-355OC2

CEILING MOUNTED LOW VOLTAGE OCCUPANCY SENSOR EQUAL TO WATTSTOPPER # DT-300OC1

WALL MOUNTED SWITCH EQUAL TO WATTSTOPPER # LMSW-101

GENERAL NOTES

PLANS. ALL CONTRACTORS SHALL PROVIDE PROTECTION FOR THEIR PENETRATIONS THRU THESE PLENUMS.

ALTERNATE BID #2

CONTRACTOR SHALL PROVIDE ALTERNATE PRICE FOR WORK

PLANS FOR ADDITIONAL ALTERNATE BID #2 INFORMATION.

ALTERNATE BID #2

SCALE: 1/8" = 1'-0"
If you must print this drawing, please recycle.

www.soa-inc.com

Missouri Certificate of Authority Number: 000826

Architecture
Interior Design
Planning
Sustainability

2801 Woodard Drive, Suite 103
Columbia, MO 65202
573.443.1407

MEP ENGINEER:
912 Old 63 South
Columbia, MO 65201
573-875-4365

CE PROJECT COL20003
ISSUE FOR BID
03-19-2020

LOTTES 1ST FLOOR
RENOVATION PHASE ONE
1 HOSPITAL DRIVE
COLUMBIA, BOONE COUNTY, MO

Shane Floyd, P.E.
MO Certificate of Authority #2006012388
MARCH 19TH, 2020

0" 4'-0" 8'-0" 24'-0"16'-0"1/8"=1'-0"

E501

ELECTRICAL DETAILS

CONCRETE-ENCASED
ELECTRODE
(REQUIRED)
GROUNDING RING
(IF AVAILABLE)

OTHER SYSTEMS 94
PER NEC 250-92(b)

TELEPHONE / DATA
TERMINAL BOARD(S)
SYSTEM BONDING
BOND OTHER PIPING
SYSTEMS & STRUCTURAL
STEEL PER NEC 250.104

BOND LIGHTNING
PROTECTION SYSTEMS
PER NEC 250.106

GROUNDING
BUS
NEUTRAL
SERVICE ENTRANCE
EQUIPMENT
BONDING JUMPER
SIZE PER RISER
GROUND ROD
(REQUIRED)
MINIMUM 8'-0" LONG
Ø
GROUND ROD
BUILDING STEEL
(REQUIRED)
WATER PIPE
(REQUIRED)
WITHIN 5'-0" OF ENTRANCE INTO BUILDING
METAL WATER PIPE BURIED IN A MINIMUM OF 10'-0" OF EARTH

#6
#6
GROUNDING ELECTRODE CONDUCTOR (GEC) SIZED PER RISER SIZE PER RISER. INSULATED WIRING INSTALLED OPEN UNLESS INSTALLED IN NONMETALLIC PVC CONDUIT TO PROTECT IT FROM SEVERE DAMAGE
WALL MOUNTED GROUNDING BAR
COPPER BUS BAR (1/4" x 4" x 20") w/ INSULATORS AND MOUNTING BRACKETS
ERITECH # EGB14420CC GROUND BAR

ALL CONNECTIONS SHALL BE 2-HOLE LONG BARREL CONNECTION LUGS

GROUNDING & BONDING
ELECTRICAL RISER

KEY NOTES
1. REMOVE EXISTING 100-3 BUCKET & INSTALL NEW 200-3 AT SAME LOCATION AS SHOWN
2. DEMOLISH EXISTING CONDUIT & CONDUCTORS SHOWN DASHED
3. RE-FEED EXISTING PANEL 'L4' FROM NEW PANEL 'L6' AS SHOWN

EXISTING L1NE
EXISTING L2NE
EXISTING L1NE
EXISTING LINE
EXISTING HUMIDIFIER
EXISTING H3NE
EXISTING CWP-1
EXISTING 'LH'
EXISTING CONDUIT & CONDUCTORS FROM EXISTING UNIT SUB-STATION #1

NEW 1
NEW 2

XX,XXX REPRESENTS THE AVAILABLE FAULT CURRENT IN RMS SYMMETRICAL AMPERES AT THE RESPECTIVE TRANSFORMER, PANEL, OR EQUIPMENT BASED ON A 500 KVA, 3 PHASE TRANSFORMER (6.18%Z). CALCULATION ALSO BASED ON TRANSFORMER, PANEL & EQUIPMENT LOCATIONS AS SHOWN ON PLANS. ELECTRICIAN TO VERIFY ARC FAULT RATINGS WITH FINAL TRANSFORMER & EQUIPMENT POWER SPECS & LOCATIONS.

DOOR
DOOR
KNOB

ACCESS CONTROL PANEL
READER
22-2 STRANDED CABLE
18-6 STRANDED CABLE
22-6 STRANDED SHIELDED CABLE

NOTES:
1. LIMIT WIRE TO 300'-0" RUNS
2. READER TO HAVE 2'-0" EXTRA WIRE OUTSIDE WALL
3. STRIKE PLATE WIRES TO HAVE 2'-0" EXTRA WIRE OUTSIDE STRIKE PLATE
4. WIRES NEED TO BE LABELED ON BOTH ENDS
5. READER TO BE 0" TO 18" FROM DOOR KNOB @ SAME HEIGHT
6. READER TO BE MOUNTED ON ENTRY SIDE OF DOOR (SEE TOP VIEW)

CONTROLLER
3 GANG BOX
READER

PLAN VIEW
ACCESS CONTROL DETAIL

PRIVATE OFFICE LIGHTING
CONTROL WIRING DIAGRAM

OPEN OFFICE LIGHTING
CONTROL WIRING DIAGRAM
### ELECTRICAL PANEL SCHEDULE

<table>
<thead>
<tr>
<th>NO.</th>
<th>PANEL</th>
<th>INPUT</th>
<th>OUTPUT 1</th>
<th>OUTPUT 2</th>
<th>OUTPUT 3</th>
<th>OUTPUT 4</th>
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### LIGHTING SCHEDULE

<table>
<thead>
<tr>
<th>NO.</th>
<th>ROOM/CORE</th>
<th>TYPE</th>
<th>CODE</th>
<th>SIZE</th>
<th>AMPS</th>
<th>120V</th>
<th>240V</th>
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</tr>
</tbody>
</table>

Note: All dimensions are given in inches. All equipment is to be installed as per the specifications provided. Dimensions for panels, panels, and equipment are included in the schedule.

**MISSOURI CERTIFICATE OF AUTHORITY NUMBER: 000826**

**ARCHITECTURE**

**INTERIOR DESIGN**

**PLANNING**

**SUSTAINABILITY**

2801 Woodard Drive, Suite 103
Columbia, MO 65202

573.443.1407

**MEP ENGINEER:**
912 Old 63 South
Columbia, MO 65201
573-875-4365

**CE PROJECT COL20003**

**ISSUE FOR BID**

03-19-2020

LOTTES 1ST FLOOR

RENOVATION PHASE ONE

1 HOSPITAL DRIVE
COLUMBIA, BOONE COUNTY, MO

**REVISION DATE**

**SHANE FLOYD, P.E.**

**PE-2019017814**

**MO CERTIFICATE OF AUTHORITY #2006012388**

MARCH 19TH, 2020

**0” 4’-0” 8’-0” 24’-0” 16’-0” 1/8”=1’-0”**

**ELECTRICAL SCHEDULES**
1. All equipment and devices labeled 'EX' or 'EXISTING' shall remain unless noted otherwise.

2. Symbols legend is comprehensive. Some symbols or variations thereof may not be used on plans.

3. All existing equipment and devices shown are an approximation based on existing plans, specifications, and combustible electrical equipment within a plenum shall conform to the following:

   - In accordance with UL 910, only type OFNP (plenum rated non-conductive optical fiber cable) shall be listed and labeled.
   - Visible notification appliance (strobe) shall be equal to Lithonia #LHQM-P-W-R-3-120/277-SW01, 120/277VAC with battery backup.
   - Visible notification appliance (strobe) shall be equal to Rathi #2500-2--D with #2500-PWR24 24VAC power supply (120V, 1A input).

4. Contractors shall use non-combustible or plenum rated materials above ceiling:
   - EMT conduit, cast iron sanitary & vent piping

5. This project includes a plenum space

   - Field surveys. Contractor shall field verify exact locations of equipment and devices prior to start of new installations as shown on the plans.

   - Provided & wired by fire alarm contractor, installed by HVAC contractor

6. General notes:
   - Remove conductors to nearest J-Box above ceiling. Demo J-Box in wall. Patch and paint wall per architectural plan details.

7. Key notes:
   - Provide alternate plan for work under 'Alternate Bid #2'. See architectural plans for additional 'Alternate Bid #2' information.
PLAUM SPACE NOTE
THE FOLLOWING SPECIFICATION

1. ALL EQUIPMENT AND DEVICES LABELED ‘EX’ OR ‘EXISTING’ SHALL BE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.

1. FIRE ALARM SYSTEM TO BE DEFERRED SUBMITTAL BY FIRE ALARM CONTRACTOR. INFORMATION REQUIRED TO BE TURNED DO NOT LOCATE HEAT DETECTORS

KEY NOTES

3. EXISTING FIRE ALARM SYSTEM IS AN ADDRESSABLE SYSTEM CONTROLLING HORNS, STROBES, DETECTORS, AND PULL

CONTRACTORS SHALL USE NON COMBUSTIBLE OR PLENUM RATED MATERIALS ABOVE CEILING:
- EMT CONDUIT, CAST IRON SANITARY & VENT PIPING

THIS PROJECT INCLUDES A PLENUM SPACE

GENERAL NOTES

FIRE PENETRATION NOTE

FOR ALL PENETRATIONS THRU OR INTO FIRE RATED VERTICAL OR HORIZONTAL ASSEMBLIES:
- EXTEND NOTIFICATION APPLIANCE CIRCUIT FROM EXISTING FACP IN THIS AREA TO NEW STROBES AND HORN/STROBES.
- EXISTING FACP TO REMAIN. FACP MANUFACTURER AND MODEL: HONEYWELL GAMEWELL - FCI S3
- RE-INSTALL SALVAGED SMOKE DETECTOR. TIE INTO EXISTING DEVICE CONDUCTORS.

WIRING EXPOSED WITHIN A PLENUM SHALL CONFORM TO THE FOLLOWING:

- IN ACCORDANCE WITH UL 910. ONLY TYPE OFNP (PLENUM RATED NONCONDUCTIVE OPTICAL FIBER CABLE) SHALL BE LISTED AND LABELED.
- COMBUSTIBLE ELECTRICAL OR ELECTRONIC WIRING METHODS AND MATERIALS, OPTICAL FIBER CABLE, AND OPTICAL AVERAGE OPTICAL DENSITY NOT GREATER THAN 0.15, AND A FLAME SPREAD NOT GREATER THAN 5 FEET WHEN TESTED WITHIN 4" OF CORNER

A UL LISTED PENETRATION FIRESTOP SYSTEM SHALL BE INSTALLED AS TESTED IN

CONVENTIONAL INITIATING UNCONDITIONED SPACESSYSTEMS BY OTHERS

DOOR HOLDERS, HVAC FANS, SMOKE DAMPERS, ETC.

FIELD SURVEYS. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS OF EQUIPMENT AND DEVICES PRIOR TO START OF CONSTRUCTION. PROVIDE REPORT TO OWNERS REPRESENTATIVE OF ALL DEVIATIONS WHICH WILL AFFECT RENOVATION /

NEW INSTALLATIONS AS SHOWN ON THE PLANS.

DEVICE CUT SHEETS.

INTO THE CITY INCLUDES THE FOLLOWING, BATTERY CALCULATIONS, VOLTAGE DROP CALCULATIONS, DEVICE CUT SHEETS

THIS PROJECT CONTAINS FIRE RATED ASSEMBLIES. LOCATIONS ARE INDICATED ON ARCHITECTURAL

AND MAINTAIN A BOOK WITH ALL FIRE PENETRATION PROTECTIVE SYSTEMS THAT WILL BE USED ON THIS PROJECT. THIS BOOK MUST REMAIN ON SITE AT ALL TIMES.

WHERE WALL MEETS CEILING

FOR ALL PENETRATIONS THRU OR INTO FIRE RATED VERTICAL OR HORIZONTAL ASSEMBLIES:
- ALTERNATE BID #2
- CONTRACTOR SHALL PROVIDE ALTERNATE PRICE FOR WORK THIS AREA UNDER "ALTERNATE BID #2". SEE ARCHITECTURAL

IN AREAS WITH LOW CEILINGS

ELEVATOR(S), IF PRESENT

TO WALL

ALTERNATE

4'-0" MAX.

3'-0" MIN. FROM

5'-0" MAX.

VISUAL OR AUDIBLE/VISUAL

6'-8" MIN.

FROM DOOR

AIR DEVICES

4" MAX.

6" MAX.

12" MAX.

( TOP OF DETECTOR )

15 cd

30 cd

60 cd

15 cd

( CENTER OF LENS )

(AREAS WITH LOW CEILINGS)

PS

MM

OMVS

W F

4" 6'-8" 8'-0" 24'-0" 16'-0" 

1/8" = 1'-0" 

SCALE: 1" = 60'-0" 

1 573.443.1407 

Columbia, MO 65202

2801 Woodard Drive, Suite 103

www.soa-inc.com

Architecture

Planning

Interior Design

Sustainability

MEP ENGINEER:

Authority Number: 000826

www.soa-inc.com

PE-2019017814

Shane Floyd, P.E.

MARCH 19TH, 2020

FIRST FL. FIRE ALARM SYSTEM PLAN

RENOVATION PHASE ONE

COLUMBIA MEDICAL CENTER

HOSPITAL DRIVE

COLUMBIA, BOONE COUNTY, MO

ISSUE FOR BID

03-19-2020

0" 4'-0" 8'-0" 24'-0"

REVISION DATE

FA101

FIRST FLOOR FIRE ALARM SYSTEM PLAN

CHEMICAL HOSPITAL DRIVE

SCALE: 1" = 60'-0"

TYP. FIRE ALARM DEVICE LOCATIONS

TYP. FIRE ALARM RISER

LOTTIES 1ST FLOOR

HOSPITAL DRIVE

COLUMBIA, MO 65201

please recycle

If you must print this drawing,

ELECTRICAL PLENUM NOTES

1. FIRE PENETRATION NOTE

PLAUM SPACE NOTE

1. ELECTRICAL PLENUM NOTES

CONTRACTION SPACE "EX" OR "EXISTING" SHALL BE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.

THE FOLLOWING SPECIFICATION

KEY PLAN

SCALE: 1" = 60'-0"
1. All equipment, piping, and fixtures labeled 'EX' or 'EXISTING' shall be existing to remain unless noted otherwise.

2. All existing equipment and devices shown are an approximation based on existing plans, specifications, and field surveys. Contractor shall field verify exact locations of equipment and devices prior to start of construction. Provide report to owners' representative of all deviations which will affect renovation/new installations as shown on the plans.

3. Fire protection system to comply with NFPA standards and all national and local codes/ordinances/amendments. Building shall be fully sprinkled.

4. Provide sprinklers under all exposed ductwork over 48" wide and space heads around all obstructions in accordance with NFPA 13 guidelines.

5. Fire stop all penetrations of smoke/fire walls, ceilings, and floors. Fire stop assemblies shall meet ASTM E814.

6. Provide a permanently attached name tag attached to the riser and/or sprinkler zone connection stating the required design criteria for each hydraulically designed system.

7. Coordinate piping with all electrical equipment (panels, transformers, etc.) prior to any installation. Contractor shall not route any piping over electrical panels under any circumstances. Piping run over panels shall be routed at no additional cost to owner.

8. All sprinkler main piping shown is existing and an approximation shown for reference only. Contractor shall verify exact location of piping to tie into for generating fire sprinkler system plans and installation.

Deferred Submittal Notes:
1. Fire sprinkler system shall be a deferred submittal by fire sprinkler contractor. Information required to be turned into the city includes the following, two sets hydraulic calculations, and sprinkler drawings sealed by a licensed professional engineer of the state of Missouri.

General Notes:
1. Electrical, HVAC, and interior finishes are subject to change, structural members to remain unaltered.

2. All fire protection systems shown are an approximation, hydraulic plans, specifications, and field surveys. Contractor shall field verify exact locations of equipment and devices prior to start of construction.

3. All sprinkler system components and components of the fire protection system are subject to change, structural members to remain unaltered.

4. Plumbing manholes, risers, and manholes shall be non-combustible or shall have a flame spread index of not more than 25 and a smoke developed index of not more than 50 when tested in accordance with ASTM E84.

5. Exposed sprinkler main piping to remain shown for reference only.

Fire Penetration Notes:
This project contains fire rated assemblies. Locations are indicated on architectural plans. All contractors shall provide protection for their penetrations thru these assemblies as follows.

For all penetrations thru or into fire rated vertical or horizontal assemblies:
1. UL listed penetration firestop system shall be installed as tested in accordance with ASTM E814 or UL 1479 (IBC 714.3). General contractor to provide and maintain a book with all fire penetration protective systems that will be used on this project. This book must remain on site at all times.