**OVERALL PROJECT PLAN**

**FRANKLIN ES RENOVATION**
Liberty Public Schools
201 W Mill St.
Liberty, MO 64068

**CONSTRUCTION DOCUMENTS**

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**INDEX OF DRAWINGS**

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**PROJECT INFORMATION**

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<tr>
<td>FRANKLIN ELEMENTARY</td>
<td>OCCUPANCY CATEGORY E (TYPICAL OCCUPANCY)</td>
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**DESIGN TEAM**

**ARCHITECT:**
Hollis + Miller Architects
1828 Walnut Street Ste 922
Kansas City, MO 64108

**GROUP E, EDUCATIONAL OWNER:**
Liberty Public Schools
8 Victory Lane
Liberty, MO 64068

**CONSTRUCTION DOCUMENTS**

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**THE PROJECT SCOPE CONSISTS OF THE FOLLOWING INTERIOR TENANT FINISH UPGRADES:**
- RESTROOM RENOVATIONS
- BREAK ROOM FINISH UPGRADES
- NURSES RENOVATION
- A RECONFIGURATION OF A PORTION OF THE BUILDING

**THE FOLLOWING CODES WERE USED FOR THIS PROJECT:**
- 2018 "IBC" INTERNATIONAL BUILDING CODE
- 2018 "IMC" INTERNATIONAL MECHANICAL CODE
- 2018 "IPC" INTERNATIONAL PLUMBING CODE
- 2010 "ADA" AMERICANS WITH DISABILITIES ACT
- 2017 "ICC ANSI A117.1" ACCESSIBLE & USABLE BUILDINGS & FACILITIES

**IPC PLUMBING CALCULATIONS**

**FRANKLIN ELEMENTARY OCCUPANCY CRITERIA (TYPICAL OCCUPANCY):**

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<td>ALTERNATE AS DOCUMENTED ON H1, H5 &amp; H9/A402</td>
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**ALTERNATES**

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**VICTIM MAP**

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**Please consider the environment before printing this.**
DESTRUCTION PLAN NOTES:

1. CIRCUMVENT AND REMOVE ALL EXISTING ELECTRICAL AND MECHANICAL EXHAUST, SUPPLY, AND RETURN FANS AND ASSOCIATED DUCTWORK.

2. DISCONNECT AND REMOVE EXISTING SUPPLY DIFFUSER AND ASSOCIATED BRANCH DUCT.

3. DISCONNECT AND REMOVE EXISTING RETURN GRILLE.

4. DISCONNECT AND REMOVE EXISTING EXHAUST GRILLE AND ASSOCIATED BRANCH DUCT.

5. DISCONNECT AND REMOVE EXISTING AIR HANDLER.

6. DISCONNECT AND REMOVE EXISTING SUPPLY AND RETURN FAN AND ASSOCIATED DUCTWORK.

7. DISCONNECT AND REMOVE EXISTING AIR CLEANER AND ASSOCIATED DUCTWORK.

8. DISCONNECT AND REMOVE EXISTING AIR SUPPLY AND RETURN DUCTWORK.

9. DISCONNECT AND REMOVE EXISTING EXHAUST DUCTWORK.

10. DISCONNECT AND REMOVE EXISTING RECIRCULATING DUCTWORK.

11. DISCONNECT AND REMOVE EXISTING AIR HANDLER.

12. DISCONNECT AND REMOVE EXISTING AIR SUPPLY AND RETURN DUCTWORK.

13. DISCONNECT AND REMOVE EXISTING EXHAUST DUCTWORK.

14. DISCONNECT AND REMOVE EXISTING AIR CLEANER AND ASSOCIATED DUCTWORK.

15. DISCONNECT AND REMOVE EXISTING AIR SUPPLY AND RETURN FAN AND ASSOCIATED DUCTWORK.

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26. DISCONNECT AND REMOVE EXISTING AIR SUPPLY AND RETURN DUCTWORK.

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32. DISCONNECT AND REMOVE EXISTING AIR HANDLER.

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35. DISCONNECT AND REMOVE EXISTING AIR CLEANER AND ASSOCIATED DUCTWORK.

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39. DISCONNECT AND REMOVE EXISTING AIR HANDLER.

40. DISCONNECT AND REMOVE EXISTING AIR SUPPLY AND RETURN DUCTWORK.

41. DISCONNECT AND REMOVE EXISTING EXHAUST DUCTWORK.

42. DISCONNECT AND REMOVE EXISTING AIR CLEANER AND ASSOCIATED DUCTWORK.

43. DISCONNECT AND REMOVE EXISTING AIR SUPPLY AND RETURN FAN AND ASSOCIATED DUCTWORK.

44. DISCONNECT AND REMOVE EXISTING AIR SUPPLY AND RETURN DUCTWORK.

45. DISCONNECT AND REMOVE EXISTING EXHAUST DUCTWORK.

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54. DISCONNECT AND REMOVE EXISTING AIR SUPPLY AND RETURN DUCTWORK.

55. DISCONNECT AND REMOVE EXISTING EXHAUST DUCTWORK.

56. DISCONNECT AND REMOVE EXISTING AIR CLEANER AND ASSOCIATED DUCTWORK.
1. Shown with bold dashed lines are to be demolished. Services and equipment shown with solid half tone line weight are to remain in place.

2. The existing conditions indicated on the drawings are taken from the best information available and from visual site inspection and are not to be considered "as built" conditions. The information shown is to establish the extent of the scope of project site and perform work as required to meet the existing conditions and the extent of the work indicated.

3. Patch roofs, walls, ceilings, and floors where any services are removed unless noted otherwise.

4. Disconnect and remove all ductwork, piping, wiring, and conduit that becomes unnecessary as a result of the removal of equipment indicated to be removed.

5. Where mechanical and electrical fixtures or equipment are removed, cap all unused conduit, wiring, and piping behind the floor line or wall line to facilitate the restoration of finish.

6. Provide for the continuity of all remaining services, systems, and circuits. Relocate and reconnect any mechanical and electrical facilities that must be relocated in order to accomplish the specifications.
**FIXTURE AND ACCESSORY MOUNTING HEIGHTS**

**TOILET, BATH AND LAUNDRY ACCESSORY LEGEND**

**SHEET KEYNOTE LEGEND**

**GENERAL DEMOLITION NOTES**

**DEMOLITION NOTES**

**FLOORS & BASE**

**CONSTRUCTION DOCUMENTS**

**SHEET NOTES**

1.十分考虑环境之前再打印这张图。
GENERAL DEMOLITION NOTES

1. DEMOLITION INCLUDES THE REMOVAL OF EXISTING 06 10 00.A01 DIMENSION LUMBER FRAMING 06 10 00.A12 PRESERVATIVE TREATED WOOD BLOCKING/NAILERS.

2. HARDWOOD INDICATES EXISTING CONSTRUCTION TO BE REMOVED.

3. HALF-TONE SHADING INDICATES EXISTING CONSTRUCTION TO BE REMOVED.

4. EVERY DETAIL OF THE DEMOLITION WORK MAY NOT BE MATCH EXISTING WOOD TYPE WD1 ALL SIDES 1/4" PL2 07 92 00.A01 REMOVED, INCLUDING BRACKETS, SCREWS, SIGNAGE, SURFACE MOUNTED ELECTRICAL AND TECHNOLOGY; REMOVE ALL WINDOW COVERINGS; MINI-BLINDS, ROLLER SHADES AND ALL BRACKETS 1 1/4" 1' - 0" 2' - 0 3/4" 4".

5. THE OWNER WILL IDENTIFY ALL ITEMS TO BE SALVAGED PRIOR TO DEMOLITION STARTING. CONTRACTOR SHALL SALVAGE AND TURN OVER TO THE OWNER ALL EQUIPMENT IDENTIFIED. ALL REMAINING ITEMS SHALL BE REMOVED BY THE DEMOLITION CONTRACTOR.

6. COORDINATE THE REMOVAL OF ALL/PORTIONS OF LOAD BEARING ELEMENTS WITH THE STRUCTURAL ENGINEER PRIOR TO RESTRUCTION.

7. REMOVE EXISTING LAYER(S) AS REQUIRED TO EXPOSE STUD FRAMING OR BRICK. REMOVE WALL HUNG FIXTURES, TOILET ACCESSORIES, MIRRORS AND ASSOCIATED PARTITIONS. REMOVE CASEWORK/CABINETRY. OWNER TO REMOVE 2' - 0"

8. REMOVE EXISTING WALL PANELING, ENTIRE WALL AND SUSPENSION SYSTEM. EXISTING HANGER WIRE MAY BE LEFT IN PLACE. COMPENSATE FOR HEIGHT OF ALL MOUNTING OF CASEWORK AND CABINETRY AND/OR MIRRORS AND ASSOCIATED FIXTURES. REMOVE EXISTING CASEWORK/CABINETRY. OWN AND ASSOCIATED PARTITIONS. REMOVE CASEWORK/CABINETRY.

9. REFER TO SHEET ELEVATIONS FOR EXISTING MECHANICAL, ELECTRICAL, AND PLUMBING TO BE FINISHED.

10. REFER TO SHEET DESIGNS FOR EXISTING CASEWORK/CABINETRY AND TOILET ACCESSORIES, MIRRORS AND ASSOCIATED FIXTURES.

11. REFER TO SHEET DESIGNS FOR EXISTING CASEWORK/CABINETRY AND TOILET ACCESSORIES, MIRRORS AND ASSOCIATED FIXTURES.

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22. REFER TO SHEET DESIGNS FOR EXISTING CASEWORK/CABINETRY AND TOILET ACCESSORIES, MIRRORS AND ASSOCIATED FIXTURES.
GENERAL FINISH NOTES

1. REFER TO FINISH FLOOR PLANS, REFLECTED CEILING PLANS, ELEVATIONS, AND DETAILS FOR EXTENT OF MULTIPLE FINISHES.
2. DO NOT PAINT NATIONAL OR MANUFACTURED ITEM, BRICK, GLASS BLOCK OR OTHER PRE-FINISHED MATERIALS.
3. REFER TO SHEET 5 FOR MATERIALS LIST.
4. REFER TO SHEET 7 FOR MATERIALS LIST.
5. REFER TO SHEET 8 FOR MATERIALS LIST.
6. REFER TO SHEET 9 FOR MATERIALS LIST.
7. REFER TO SHEET 10 FOR MATERIALS LIST.

ROOM FINISH SCHEDULE

1. REFER TO ROOM FINISH SCHEDULE FOR EXTENT OF MULTIPLE FINISHES.
2. DO NOT PAINT ALUMINUM OR OTHER NON-FERROUS METALS THAT ARE PREFINISHED.
3. PAINT ALL EXPOSED CEILINGS DESIGNATED AS "OTS" AS INDICATED ON ROOM FINISH SCHEDULE.
4. PAINT ALL EXPOSED STEEL, UNO.
5. PAINT ALL INTERIOR HOLLOW METAL DOORS AND FRAMES TO MATCH ADJACENT WALL, UNO.
6. PAINT ALL EXPOSED CEILINGS DESIGNATED AS "OTS" AS INDICATED ON ROOM FINISH SCHEDULE.
7. PAINT ALL INTERIOR HOLLOW METAL DOORS AND FRAMES TO MATCH ADJACENT WALL, UNO.

ROOM SCHEDULE REMARKS

1. PROVIDE LEVEL 5 FINISH FOR GYPSUM BOARD SURFACES WHERE WGX IS DESIGNATED IN FINISH FLOOR PLANS AND ELEVATIONS.
2. PROVIDE LEVEL 5 FINISH FOR ALL WALL SURFACES EXCEPT WHERE DESIGNATED AT "OH".
3. PROVIDE LABEL "A" FOR ALL WALL SURFACES.
4. PROVIDE level 5 finish.

MATERIAL FINISH LEGEND

ROOM NOTES

1. REFER TO ROOM NOTES FOR EXTENT OF MULTIPLE FINISHES.
2. COORDINATE LOCATION WHERE BACKING REQUIRED FOR MATERIALS.
3. COLOR/MATERIAL TRANSITIONS ARE NOTED WHEN THEY DO NOT OCCUR AT INSIDE CORNERS.
4. REFER TO ROOM NOTES FOR EXTENT OF MULTIPLE FINISHES.
5. REFER TO ROOM NOTES FOR EXTENT OF MULTIPLE FINISHES.
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Room ID Signage Schedule

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Scale: N12

Typical Room ID Signage Elevation A - Standard Location

EXISTING SIGNAGE REFERENCE

Classroom

EXISTING SIGNAGE REFERENCE

Kitchen

EXISTING SIGNAGE REFERENCE

Boys' Restroom

PROJECT PICTOGRAMS

WOMEN/MEN

GIRLS

BOYS

STAIRS

ACCESSIBLE

IN CASE OF EMERGENCY

HIGH WIND AREA
GENERAL NOTES - STRUCTURAL

1. General Information
   A. The structural design and calculations have been performed by licensed professional engineers.
   B. The building is designed and constructed to comply with all applicable building codes and regulations.
   C. The structural design is based on the design assumptions and conditions stated herein.

2. Construction Drawings
   A. The construction drawings include all necessary details to complete the project.
   B. The contractor is responsible for the installation of all structural elements.
   C. The contractor shall coordinate with other disciplines to ensure proper integration.

3. Structural Steel
   A. Structural steel shall be in accordance with the National Design Specification (NDS) for Steel Construction.
   B. Steel shapes shall be in accordance with the American Institute of Steel Construction (AISC) specifications.
   C. Steel connections shall be in accordance with the American Welding Society (AWS) specifications.

4. Masonry
   A. Masonry units shall be in accordance with the American Society for Testing and Materials (ASTM) specifications.
   B. Mortar mix designs shall be in accordance with the American Concrete Institute (ACI) specifications.
   C. Masonry units shall be properly supported to resist wind and seismic loads.

5. Roofing
   A. Roofing systems shall be in accordance with the National Roofing Contractors Association (NRCA) specifications.
   B. Roofing systems shall be properly supported to resist wind and seismic loads.
   C. Roofing systems shall be properly sealed to prevent water infiltration.

6. Electrical
   A. Electrical systems shall be in accordance with the National Electrical Code (NEC).
   B. Electrical systems shall be properly supported to resist wind and seismic loads.
   C. Electrical systems shall be properly sealed to prevent water infiltration.

7. Plumbing
   A. Plumbing systems shall be in accordance with the American National Standards Institute (ANSI) specifications.
   B. Plumbing systems shall be properly supported to resist wind and seismic loads.
   C. Plumbing systems shall be properly sealed to prevent water infiltration.

8. Mechanical
   A. Mechanical systems shall be in accordance with the American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) specifications.
   B. Mechanical systems shall be properly supported to resist wind and seismic loads.
   C. Mechanical systems shall be properly sealed to prevent water infiltration.

9. Miscellaneous
   A. All materials shall be in accordance with the American Society for Testing and Materials (ASTM) and American Concrete Institute (ACI) specifications.
   B. All materials shall be properly supported to resist wind and seismic loads.
   C. All materials shall be properly sealed to prevent water infiltration.

10. Special Inspection
    A. Special inspections shall be performed as required by the building code.
    B. Special inspections shall be performed by a qualified inspector.
    C. Special inspections shall be documented in the project files.

11. Final Inspection
    A. Final inspections shall be performed by the owner and the project manager.
    B. Final inspections shall be documented in the project files.
    C. Final inspections shall be conducted in accordance with the building code.

12. Punch List
    A. Punch lists shall be completed upon successful completion of the project.
    B. Punch lists shall be signed by the owner and the project manager.
    C. Punch lists shall be documented in the project files.

13. Safety
    A. Safety regulations shall be in accordance with the Occupational Safety and Health Administration (OSHA) regulations.
    B.安全 regulations shall be in accordance with the American National Standards Institute (ANSI) specifications.
    C. Safety regulations shall be documented in the project files.

14. Archival
    A. Archival materials shall be properly stored and documented.
    B. Archival materials shall be made available to the owner upon request.
    C. Archival materials shall be documented in the project files.

15. References
    A. References shall include all necessary documents and materials.
    B. References shall be properly stored and documented.
    C. References shall be made available to the owner upon request.

16. Certification
    A. Certification shall be completed by the project manager.
    B. Certification shall be signed by the owner and the project manager.
    C. Certification shall be documented in the project files.

17. Acknowledgment
    A. Acknowledgment shall be completed by the owner and the project manager.
    B. Acknowledgment shall be signed by the owner and the project manager.
    C. Acknowledgment shall be documented in the project files.

18. Approval
    A. Approval shall be completed by the owner and the project manager.
    B. Approval shall be signed by the owner and the project manager.
    C. Approval shall be documented in the project files.

19. Completion
    A. Completion shall be documented in the project files.
    B. Completion shall be signed by the owner and the project manager.
    C. Completion shall be documented in the project files.

20. Signatures
    A. Signatures shall be completed by the project manager.
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21. Archival
    A. Archival materials shall be properly stored and documented.
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    B. Approval shall be signed by the owner and the project manager.
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    B. Completion shall be signed by the owner and the project manager.
    C. Completion shall be documented in the project files.

25. Signatures
    A. Signatures shall be completed by the project manager.
    B. Signatures shall be signed by the owner and the project manager.
    C. Signatures shall be documented in the project files.

26. Archival
    A. Archival materials shall be properly stored and documented.
    B. Archival materials shall be made available to the owner upon request.
    C. Archival materials shall be documented in the project files.

27. Certification
    A. Certification shall be completed by the project manager.
    B. Certification shall be signed by the owner and the project manager.
    C. Certification shall be documented in the project files.

28. Approval
    A. Approval shall be completed by the owner and the project manager.
    B. Approval shall be signed by the owner and the project manager.
    C. Approval shall be documented in the project files.

29. Completion
    A. Completion shall be documented in the project files.
    B. Completion shall be signed by the owner and the project manager.
    C. Completion shall be documented in the project files.

30. Signatures
    A. Signatures shall be completed by the project manager.
    B. Signatures shall be signed by the owner and the project manager.
    C. Signatures shall be documented in the project files.

31. Archival
    A. Archival materials shall be properly stored and documented.
    B. Archival materials shall be made available to the owner upon request.
    C. Archival materials shall be documented in the project files.

32. Certification
    A. Certification shall be completed by the project manager.
    B. Certification shall be signed by the owner and the project manager.
    C. Certification shall be documented in the project files.

33. Approval
    A. Approval shall be completed by the owner and the project manager.
    B. Approval shall be signed by the owner and the project manager.
    C. Approval shall be documented in the project files.

34. Completion
    A. Completion shall be documented in the project files.
    B. Completion shall be signed by the owner and the project manager.
    C. Completion shall be documented in the project files.

35. Signatures
    A. Signatures shall be completed by the project manager.
    B. Signatures shall be signed by the owner and the project manager.
    C. Signatures shall be documented in the project files.
**LEGEND**

**H-1** . . . . . .   LIGHT GAGE BOX BEAM W/ (2) 6", 16ga METAL STUDS (1 5/8" FLANGE) AND 6", 16ga TRACK TOP & BOT.

**P-1** . . . . . .   LIGHT GAGE POST W/ (2) 6", 16ga METAL STUDS (1 5/8" FLANGE) AND (1) 6", 16ga TRACK

[E] . . . . . .   INDICATES EXISTING STRUCTURAL MEMBER

6", 16ga TRACK PIECE

***TYPICAL LIGHT GAGE HEADER DETAIL***

POST PER PLAN & LEGEND

(6) #10 TEK SCREWS TYP.

VERTICAL SLIDE CLIP TYP.

POST PER PLAN & LEGEND

16ga TRACK

(2) #10 TEK SCREWS EACH SIDE

(2) 1/4"Ø TAP-CON W/ 1 1/4" EMBEDMENT INTO SLAB

(2) #10 TEK SCREWS TYP.

1 2 3 4 5 8 6 7 9 10

1 2 3 4 5 8 6 7 9 10

13 11 12 14 15 16 17

13 11 12 14 15 16 17

11/21/2023 8:14:15 AM

**S101**

FRANKLIN ELEMENTARY SCHOOL

1606 W. MILL ST.

LIBERTY PUBLIC SCHOOLS

LIBERTY, MO 64068

S101

11-22-23

11-22-23

100% CONSTRUCTION DOCUMENTS

1/2" = 1'-0"

3/8" = 1'-0"

3/8" = 1'-0"

3/32" = 1'-0"
<table>
<thead>
<tr>
<th>Description</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>Structural Engineer</td>
<td>Bob D Campbell</td>
</tr>
<tr>
<td>State Certificate of Authority #000442</td>
<td></td>
</tr>
<tr>
<td>4338 Bellview Ave.</td>
<td>Kansas City, MO 64111</td>
</tr>
<tr>
<td>816.531.4144 phone</td>
<td></td>
</tr>
<tr>
<td>Franklin Elementary School</td>
<td></td>
</tr>
<tr>
<td>201 W Mill St.</td>
<td>Liberty, MO 64068</td>
</tr>
<tr>
<td>100% CONSTRUCTION DOCUMENTS</td>
<td></td>
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<tr>
<td>Smith &amp; Boucher</td>
<td>Mechanical/Electrical/Plumbing</td>
</tr>
<tr>
<td>State Certificate of Authority #EGC000178</td>
<td></td>
</tr>
<tr>
<td>25618 W 103rd St</td>
<td>Olathe, KS 66061</td>
</tr>
<tr>
<td>913.345.2127 phone</td>
<td></td>
</tr>
</tbody>
</table>

ME101

100% CONSTRUCTION DOCUMENTS
PLUMBING Fixture Schedule

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Manufacturer</th>
<th>Finish Code</th>
<th>Model No.</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLF-2</td>
<td>2&quot; FLUSH VALVE, VONED COUNTER-FACE, TOP SPADE, BATTER</td>
<td>ROLLIN CO.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C475Z</td>
<td>H</td>
<td>D-180</td>
<td>D-180</td>
<td>D-180</td>
<td>D-180</td>
</tr>
</tbody>
</table>

Flexible Branch Duct Detail

- Flexible duct with elbow and connection to floor/ceiling for isolation methods.

- Quantity of parts varies, check shop drawings for quantities.

Please consider the environment before printing this document.
1. INFORMATION SHOWN ON THE DRAWINGS IS INTENDED TO CONVEY SCOPE AND IS ARRANGED FOR DRAWING CLARITY. IT IS NOT TO BE TAKEN AS AN AS-

2. SYSTEM INSTALLATION SHALL BE COORDINATED WITH STRUCTURE, CEILINGS, WALLS, AND ALL OTHER TRADES TO MAINTAIN EQUIPMENT CLEARANCES, EQUIPMENT ACCESSIBILITY, DESIRED CEILING HEIGHTS, AND AESTHETICS. THE CONTRACTOR SHALL INCLUDE ANY NEEDED OFFSETS AND CHANGES OF DIRECTION IN THE BID PRICING.

3. COORDINATE ALL DUCT PENETRATIONS WITH STRUCTURAL INSTALLATION OF ALL THE DEVICES TO THE EXTENT POSSIBLE AND LOCATED DEVICES SUCH THAT THEY DO NOT CONFLICT WITH MILL WORK, TELEVISIONS, FURNITURE, TEACHING BOARDS, AND OTHER SIMILAR OBSTRUCTIONS.

4. PROVIDE FIRESTOPPING AT PENETRATIONS OF ALL RATED WALLS. REFER TO CODE PLANS FOR LOCATIONS OF RATED WALLS.

5. URNISH ALL EXPOSED DUCTWORK IN FINISHED SPACES WITH PAINTABLE FINISH.

6. DUCT SIZES SHOWN ARE SHEET METAL DIMENSIONS. WHERE DUCT LINER IS REQUIRED, DUCT SIZES ARE NOT REQUIRED TO BE INCREASED TO ACCOUNT FOR LINER.

7. ALL SERVICES SHOWN WITH HALF TONE LINE WEIGHT ARE

8. 50 CFM 100 CFM 300 CFM 535 CFM 305 CFM 150 CFM

9. Corridor Restroom 10"x10" 3rd Grade Girls 10"x10" 3rd Grade Boys 10"x10"

10. Nurse Office 16"x10" 0'

11. Lactation Room

Please consider the environmental benefits of printing this.
PLUMBING PLAN - LEVEL 1 - AREA A

GENERAL NOTES:
1. REFER TO SHEET P100B FOR ADDITIONAL GENERAL NOTES.

PLAN NOTES:
2. EXTEND AND CONNECT NEW 1/4" CW, 2" V, AND 4" SAN FOR NEW WATER CLOSET TO EXISTING PLUMBING PIPING.
3. EXTEND AND CONNECT NEW 1/2" CW, 1/2" HW, 1-1/2" V, AND 2" SAN FOR NEW LAVATORY/SINK TO EXISTING PLUMBING PIPING.
4. EXTEND AND CONNECT NEW 1/2" CW, 1/2" HW, 1-1/2" V, AND 2" SAN FOR NEW WASH FOUNTAIN TO EXISTING PLUMBING PIPING.
5. EXTEND AND CONNECT NEW 3/4" CW, 1-1/2" V, AND 2" SAN FOR NEW URINAL TO EXISTING PLUMBING PIPING.
6. EXTEND AND CONNECT NEW 1/2" CW, 1-1/2" V, AND 2" SAN FOR NEW DRINKING FOUNTAIN TO EXISTING PLUMBING PIPING.

SMITH & BOUCHER
11000 West 103rd St
Olathe, KS 66061
913.345.2127 phone
785.345.2127 fax

HOLLIS + MILLER ARCHITECTS
102 West Erwin St.
Kansas City, MO 64105
913.291.4400 phone
816.291.4400 fax

MISSOURI STATE CERTIFICATE OF AUTHORITY
ARCHITECTURE #0000161

JOB NUMBER: 23027
PROJECT NUMBER: 2314712

LIBERTY PUBLIC SCHOOLS
LIBERTY ELEMENTARY SCHOOL
201 W MILL ST.
LIBERTY, MO 64068

DATE: 11.10.2023
100% CONSTRUCTION DOCUMENTS

SCALE: 1/8" = 1'-0"
PLUMBING PLAN - LEVEL 1 - AREA B

GENERAL NOTES:
1. REFER TO SHEET P100B FOR ADDITIONAL GENERAL NOTES.

PLAN NOTES:
1. EXTEND AND CONNECT NEW 1/4" CW, 2" V, AND 4" SAN FOR NEW WATER CLOSET TO EXISTING PLUMBING PIPING.
2. EXTEND AND CONNECT NEW 1/2" CW, 1/2" HW, 1" - 1/2" V, AND 2" SAN FOR NEW LAVATORY/SINK TO EXISTING PLUMBING PIPING.
3. EXTEND AND CONNECT NEW 1/2" CW, 1/2" HW, AND 2" SAN FOR NEW WASH FOUNTAIN TO EXISTING PLUMBING PIPING.
4. EXTEND AND CONNECT NEW 3/4" CW, 1/2" V, AND 2" SAN FOR NEW URINAL TO EXISTING PLUMBING PIPING.
5. EXTEND AND CONNECT NEW 1/2" CW, 1/2" V, AND 2" SAN FOR NEW DRINKING FOUNTAIN TO EXISTING PLUMBING PIPING.

1 - 1/2" CW AND 4" SAN FROM BELOW TO WATER CLOSET. 2" V DOWN TO WATER CLOSET.
1/2" CW, 1/2" HW, AND 2" SAN FROM BELOW TO LAVATORY/SINK. 1" - 1/2" V DOWN TO LAVATORY/SINK.

PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS DOCUMENT.
1. SCHEDULE ON SHEET E300 FOR ADDITIONAL INFORMATION.
2. FURNISH AND INSTALL ALL REQUIRED LOW VOLTAGE CONTROL WIRING BETWEEN OCCUPANCY SENSORS, POWER PACKS, WALL SWITCHES, ROOM CONTROLLERS, ETC. WITHIN EACH SPACE AS TO EXISTING LIGHTING CONTROLS AND CIRCUIT UNLESS NOTED OTHERWISE.
3. 120V BRANCH CIRCUITING SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE.
   - 0' - 100' = #12 AWG
   - 151' - 250' = #6 AWG
   - GROUND CONDUCTOR AND RACEWAYS SHALL BE INCREASED AS REQUIRED.
4. POSSIBLE. WHERE EXPOSED CONDUIT IS MANDATORY, IT SHALL BE INSTALLED PARALLEL AND PERPENDICULAR TO STRUCTURAL MEMBERS, WALLS, SOFFITS, ETC. ALL GROUPS OF EXPOSED CONDUIT SHALL BE INSTALLED IN A CLEAN ANY CONDUIT NOT CONCEALED WITHIN WALLS OR ABOVE AND/OR PAINTABLE SURFACE RACEWAY TO BE PAINTED TO AND/OR PAINTABLE SURFACE RACEWAY TO BE PAINTED TO EITHER A LAY-IN OR HARD LID CEILING. ALL SURFACE CONDUIT SYSTEM (NEC 700.10), INSTALL ON EACH JUNCTION BOX COVER CONNECTION AND PHASE BALANCING, THE CONTRACTOR SHALL ORDER TO AVOID OVERLOADING A PANEL OR ITS UPSTREAM PANELS AND FEEDERS. IF A PANEL IS FOUND TO BE MARKED WITH PERMANENT RED "EMERGENCY" STICKERS TO SYSTEM (NEC 700.10), INSTALL ON EACH JUNCTION BOX COVER CONNECTION AND PHASE BALANCING, THE CONTRACTOR SHALL ORDER TO AVOID OVERLOADING A PANEL OR ITS UPSTREAM PANELS AND FEEDERS. IF A PANEL IS FOUND TO BE MARKED WITH PERMANENT RED "EMERGENCY" STICKERS TO ANY CONDUIT NOT CONCEALED WITHIN WALLS OR ABOVE ANY CONDUIT NOT CONCEALED WITHIN WALLS OR ABOVE "E" AND "X" WITH AN UNSWITCHED HOT CONDUCTOR.
7. "E" AND "X" WITH AN UNSWITCHED HOT CONDUCTOR.
8. ORDER TO AVOID OVERLOADING A PANEL OR ITS UPSTREAM PANELS AND FEEDERS. IF A PANEL IS FOUND TO BE MARKED WITH PERMANENT RED "EMERGENCY" STICKERS TO ANY CONDUIT NOT CONCEALED WITHIN WALLS OR ABOVE "E" AND "X" WITH AN UNSWITCHED HOT CONDUCTOR.
9. ORDER TO AVOID OVERLOADING A PANEL OR ITS UPSTREAM PANELS AND FEEDERS. IF A PANEL IS FOUND TO BE MARKED WITH PERMANENT RED "EMERGENCY" STICKERS TO ANY CONDUIT NOT CONCEALED WITHIN WALLS OR ABOVE "E" AND "X" WITH AN UNSWITCHED HOT CONDUCTOR.
10. ORDER TO AVOID OVERLOADING A PANEL OR ITS UPSTREAM PANELS AND FEEDERS. IF A PANEL IS FOUND TO BE MARKED WITH PERMANENT RED "EMERGENCY" STICKERS TO ANY CONDUIT NOT CONCEALED WITHIN WALLS OR ABOVE "E" AND "X" WITH AN UNSWITCHED HOT CONDUCTOR.

Please consider the environment before printing this.
1. PLAN NOTES:

1. CONNECT NEW DEVICES TO EXISTING CIRCUIT(S) SERVING ROOM.

2. DEDICATED RECEPTACLE FOR REFRIGERATOR. CONNECT TO SPARE 20A/1P CIRCUIT BREAKER IN PANEL SERVING ROOM.

3. DEDICATED RECEPTACLE FOR PRINTER. CONNECT TO EXISTING CIRCUIT SERVING ROOM.

4. EXISTING WALL MOUNTED RECEPTACLE PLUGMOLD SYSTEM.

5. EXISTING ELECTRICAL PANELS TO BE RELOCATED AS SHOWN.

6. EXTEND AND RECONNECT CONDUCTORS.

7. RECEPTACLE FOR MICROWAVE. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH IN.

8. DEDICATED RECEPTACLE FOR DISHWASHER. CIRCUIT WITH SPARE 20A/1P CIRCUIT BREAKER IN PANEL SERVING ROOM. PROVIDE CIRCUIT BREAKER WITH GFI PROTECTION.

9. PER SPECIFICATIONS. ROUTE BACK TO DOOR CONTROL HEAD END PANEL. COORDINATE EXACT REQUIREMENTS WITH OWNER.

10. CARD READER MOUNTED AT 48" AFF. ROUTE IN 1-1/4" CONDUIT. COORDINATE PATHWAY WITH DOOR HARDWARE PROVIDER.
### LIGHT FIXTURE SCHEDULE

<table>
<thead>
<tr>
<th>Type</th>
<th>Model</th>
<th>Finish</th>
<th>Watts</th>
<th>Control Method</th>
<th>Manufacturer</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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<td></td>
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### DOCUMENT CONTROL SCHEDULE

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>Wall mounted data outlet</td>
</tr>
<tr>
<td>2</td>
<td>Wall mounted switch/vacancy sensor</td>
</tr>
<tr>
<td>3</td>
<td>Manual override switch</td>
</tr>
</tbody>
</table>

### TELECOMmUNICATION OUTLET SCHEDULE

<table>
<thead>
<tr>
<th>Description</th>
<th>Type</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>WALL MOUNTED DATA OUTLET</td>
<td>CAT6</td>
<td></td>
</tr>
<tr>
<td>WALL MOUNTED WALL MOUNTED TELEPHONE</td>
<td>CAT5</td>
<td></td>
</tr>
<tr>
<td>WALL MOUNTED SECURITY</td>
<td>CAT5</td>
<td></td>
</tr>
<tr>
<td>WALL MOUNTED TELEPHONE</td>
<td>CAT6</td>
<td></td>
</tr>
<tr>
<td>WALL MOUNTED SECURITY</td>
<td>CAT5</td>
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</tr>
<tr>
<td>WALL MOUNTED TELEPHONE</td>
<td>CAT6</td>
<td></td>
</tr>
</tbody>
</table>

### NOTES:

1. Where noted above, scheduled building hours of operation are as follows: 6:30 AM to 6:30 PM.
2. Refer to specifications for further cabling and termination.
A. Max four pair No. 22 AWG (or smaller) copper conductor data cable with polyvinyl chloride (PVC) or plenum rated jacketing and insulation having a max diam of 1/4 in. (6 mm).

B. Gypsum Board* - Thickness, type, number of layers and fasteners as specified in the individual Wall and Partition Design. Opening in assembly. Any combination of the following types of cables may be used:

C. Fiber optic cable with polyvinyl chloride (PVC) or polyethylene (PE) jacket and insulation having a max diam of 1/4 in. (6 mm). The cable fill to be equal distance from the `approximate' centerline of the wall assembly.

D. Firestop Device* - Firestop device consists of a 1.4 by 1.4 by 10-1/2 in. (36 by 36 by 267 mm) long galv steel tube with an opening shall be min 0 in. (0 mm, point contact) to max 1/2 in. (13 mm).

E. Wiring devices, when used in firestop device, shall be UL Listed for use in firestop device. The firestop system shall be installed in accordance with the manufacturer's instructions.

F. The hourly F Rating of the firestop system is dependent upon the hourly rating of the wall in which it is installed.

G. The L Rating for the empty firestop device is less than 1.4 cfm at ambient and at 400F. When Item 3A is used, the L Rating with 100 percent visual fill of cable is less than 1 CFM at ambient and at 400F.

H. The T Rating is 1 hr and 1-1/4 hr in 1 hr and 2 hr rated walls, respectively, when no cables are installed in firestop device. The T Rating with 100 percent visual fill of cable is less than 1 CFM at ambient and at 400F.

SPECIFIED TECHNOLOGIES INC - EZ PATH Series 22 Fire Rated Pathway

1. Description

2. Installation

3. Specifications

4. Technical Data

5. Warranty

6. Environmental Information

7. Test Results

8. Certification

9. Compliance & Approval

10. Shipping & Handling

11. Service & Support

12. Economic Analysis

13. References

14. Literature

15. Contact Information

16. Specification Assistance

17. Tabulation

18. Literature

19. Sample & Material

20. Installation

21. Technical Support

22. Service & Maintenance

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37. Service & Maintenance