GENERAL NOTES

1. Contractor shall be responsible for becoming familiar with all current and applicable regulations and specifications for all aspects of the work.

2. Prior to proceeding with the work, the Contractor shall make a detailed survey of the project area to familiarize themselves with the project's specifications and requirements. The Contractor shall be responsible for the preparation of all drawings and documents related to the project, including the preparation of plans and specifications.

3. The Contractor is responsible for maintaining the construction site in a clean and safe condition at all times, and for ensuring that all equipment and materials are stored and handled in a manner that does not pose a hazard to the public or the work site.

4. The Contractor is responsible for ensuring that all work is performed in accordance with the project specifications and all applicable laws, regulations, and standards.

5. The Contractor is responsible for obtaining all necessary permits and approvals for the work to be performed, and for ensuring that all work is performed within the limits of the construction site.

F. SITE CLEANING

9. Compact all subgrade as specified to provide full strength.

8. Match grades with adjacent surfaces so that all abutting surfaces are properly aligned.

6. Maximum running slopes at walkways shall not exceed 5.0%.

5. All surfaces shall be constructed to positively drain away from vertical elements such as buildings, walls, columns, and site features.

E. DESIGN

1. Providing approximate control measures such as design options, and drawings for all construction, including the construction of drainage systems, landscape areas, and site features.

2. Providing design options and drawings for all construction, including the construction of drainage systems, landscape areas, and site features.

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10. Providing design options and drawings for all construction, including the construction of drainage systems, landscape areas, and site features.

D. PUBLIC SAFETY

1. Keep clear of contractors, subcontractors, and other personnel engaged in construction activities.

2. Provide all necessary safety measures during construction to protect public safety. In case of emergency, all personnel engaged in construction activities shall immediately cease work and evacuate the area.

3. Provide safe and adequate temporary and permanent means of egress, including all necessary safety equipment such as traffic control devices, traffic control personnel, and lighting.

4. Provide all necessary safety measures during construction to protect public safety. In case of emergency, all personnel engaged in construction activities shall immediately cease work and evacuate the area.

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CMI BARNETT BRANCH ADDITION & RENOVATION

INDEX, NOTES, & LEGENDS

ARCHITECTURAL, ENGINEERING, CONSTRUCTION AND MANAGEMENT SERVICES
SOILS NOTES:

1. DO NOT EXCAVATE WITHIN SOILS PRESERVATION/TREE PROTECTION SOILS. REVIEW SOILS PROTECTION PLAN FOR ADDITIONAL INFORMATION.

2. SITE AND/or SOIL SCHEDULES FOR INFORMATION MUST BE TESTED AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.

3. SETTLING DEPTHS PRELIMINARY ARE ESTIMATED FOR DESIGN PURPOSES AND ARE NOT SPECIFIED IN THE PLANTING SOIL MIX SPECIFICATION.

4. AREAS WITHIN GRADE LIMITS OR DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE EXCAVATED AND REDISTRIBUTED, AS NECESSARY. SETTLED SOILS MUST BE TESTED AND APPROVED SOILS AND COMPACTION REPORTS SUBMITTED PRIOR TO INSTALLATION.

5. SOILS TO BE EXCAVATED OR REDISTRIBUTED WITHIN SOILS PROTECTION TOLERANCES MUST BE CORRECTED FOR SETTLEMENT DEPTHS REPRESENTING FINAL GRADE WITHIN SPECIFIED TOLERANCES. COMPENSATE FOR SETTLEMENT DEPTHS BY RIPPING SOILS AS DESCRIBED IN EACH PLANTING SOIL MIX SPECIFICATION.

6. OWNER'S REPRESENTATIVE TO REVIEW AND APPROVE SOILS AND CONSTRUCTION ACTIVITIES SHALL HAVE EXISTING SOILS DECOMPACTED AND TESTED AND AMENDED OFF-SITE PRIOR TO OWNER'S REPRESENTATIVE APPROVAL FOR PLANTING SOIL MIX AND PROTECTION PLANS FOR ADDITIONAL INFORMATION.

7. PROJECT MANUAL SPECIFICATIONS FOR PLANTING SOIL MIX AND PROTECTION PLAN REQUIREMENTS ARE SUBJECT TO MODIFICATION OR ADDITION.

SOILS LEGEND

<table>
<thead>
<tr>
<th>Code</th>
<th>Color</th>
<th>Note</th>
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</thead>
<tbody>
<tr>
<td>01</td>
<td></td>
<td>PLANTINGS</td>
</tr>
<tr>
<td>02</td>
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<td>09</td>
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<td>PLANTINGS</td>
</tr>
</tbody>
</table>

SCALE: 1"   20'-0" 1

SOILS PLAN
## PLANTING PLAN

### PLANTING NOTES

1. **Planting Material:** All plants must be in conformance with the approved landscape plans prior to installation.
2. **Planting Dates:** All plants shall be installed within 14 days of delivery to the site.
3. **Planting Loss:** Should plants arrive damaged or die within 30 days of delivery, the landscape architect shall provide new plants.
4. **Root Ball Conformity:** Root balls shall conform to the size standards set forth in the American Standards for Nursery Stock.
5. **Planting Pits and Beds:** Planting pits and beds shall be staked and grafted at the proper depth and diameter.
6. **Planting Dates:** All planting shall be done in accordance with the landscaping plan and specifications.
7. **Planting Materials:** Planting materials, including root balls, shall be delivered to the site in accordance with the specifications.

### SCHEDULE-TREES, SHRUBS, PERENNIALS, & GRASS

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Botanical Name</th>
<th>Common Name</th>
<th>Size</th>
<th>Condition</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>P1</td>
<td>Carex oshimensis 'Feather Falls'</td>
<td>Variegated Japanese Sedge</td>
<td>12&quot;</td>
<td>B&amp;B</td>
<td>55</td>
</tr>
<tr>
<td>P2</td>
<td>Juniperus virginiana 'Grey Owl'</td>
<td>Grey Owl Juniper</td>
<td>24&quot;Tx 24&quot;W</td>
<td>MIN.</td>
<td>55</td>
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<tr>
<td>P3</td>
<td>Acer x freemanii 'Celzam'</td>
<td>Celebration Maple</td>
<td>3&quot; CALIPER</td>
<td>B&amp;B</td>
<td>6</td>
</tr>
<tr>
<td>P4</td>
<td>Chionanthus virginicus</td>
<td>White Fringetree</td>
<td>8' CLUMP</td>
<td>B&amp;B</td>
<td>4</td>
</tr>
</tbody>
</table>

### SCHEDULE-PLANTING

<table>
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</table>

### EXCAVATION

1. **Planted Material:** Excavation must be done prior to planting.
2. **Planting Materials:** Planting materials shall be delivered to the site in accordance with the specifications.
3. **Planting Pits:** Planting pits shall be staked and grafted at the proper depth and diameter.
4. **Planting Dates:** All planting shall be done in accordance with the landscaping plan and specifications.

### Mowing

1. **Mowing Infrequent:** Mowing shall be done infrequently to maintain the landscape.
2. **Mowing Frequency:** Mowing frequency shall be determined by the landscape architect.

### Maintenance

1. **Maintenance Program:** A maintenance program shall be established to ensure the proper care of the landscape.
2. **Maintenance Schedule:** A maintenance schedule shall be established to ensure the proper care of the landscape.

### Additional Information

- **Project Name:** Barnett Metropolitan Library
- **Location:** Barnett, Ohio
- **Design Firm:** Schooley Caldwell
- **Date:** October 11, 2023
- **Scale:** 1" = 20'-0"
2. EXPANSION JOINT LOCATIONS. SEE LAYOUT PLANS FOR SLABS NOT SHOWN)

3. COMPACTED AGGREGATE BASE COURSE, COC ITEM 304

4. NOT FOR CONSTRUCTION

**NOTES**

- CONTRACTOR SHALL SUBMIT A MIX DESIGN FOR REVIEW
- PROVIDE 1/4" RAD. ON ALL SLAB EDGES.
- PROVIDE FINISHING ON CONCRETE SURFACES AFTER EXPANSION AND CONTROL JOINTS AS SHOWN ON PLAN.
- VERIFY WITH MANUFACTURER
- VERIFY DISTANCE ON ARCHITECTURE PLANS

**SPECIFICATIONS**

- GEOTEXTILE FILTER FABRIC
- ACCORDANCE WITH COMPACT SUBGRADE IN COMPACTED AGGREGATE MATERIALS

**RECEPTACLE**

- 12' MIN.

**RECYCLING**

- 12' MIN.

**PAINTED UTILITY BOLLARD, TYP.**

- HEAVY DUTY COMMERCIAL GRADE CANE BOLT. TYP.

**MANUFACTURE AS UTILITY ENCLOSURE**

- SOLID SCREEN PANELS

**SCREEN PANEL SYSTEM**

- CENTRIA WALL PANEL SYSTEM

**FASCIA**

- DOUBLE LEAF SWING GATE

**GATES**

- HEAVY DUTY HANDLE OPERABLE ON TOP FRAME AT TIME OF RACK INSTALLATION

**Bike Rack**

- LOOP S-1 EMBEDMENT, 2 3/8" O.D. X 11 GAUGE WALL GALVANIZED STEEL,

**CIP CONCRETE PAVEMENT**

- MIN 1/3 DEPTH OF 1/8" SAWCUT

**CONCRETE PAVEMENT FOR OPEN AND CLOSED POSITIONS**

- HEAVY DUTY COMMERCIAL GRADE CANE BOLT. TYP.

**GATE WITH LOCKING MECHANISM.**

**SCREEN PANELS**

- MANUFACTURED STANDARD EDGE TRIM AT TOP, BOTTOM, AND ALL CORNERS OF SCREEN WALL

**FOR OPEN AND CLOSED POSITIONS**

**STRUCTURAL ENGINEER**

**CITY OF COLUMBUS ITEM 304**

**CONCRETE FOOTING, COC ITEM #499 CLASS C**

**8" THICKENED CONCRETE FOOTING, COC ITEM #499**

**STILL TO BE FILLED WITH COMPACTED AGGREGATE BASE COURSE, COC ITEM 304**

**CORE DRILLED HOLE 1/2" THAN DIAMETER OF PIPE. FILL**

**2 3/8" O.D. GALVANIZED PIPE**

**3/8" W/COC ITEM 204**

**CONCRETE FOOTING, COC ITEM #499 CLASS 'C'**

**6" X 6" END GATE POSTS**

**HEAVY DUTY GATE HINGE, TYP. PER GATE LEAF IN OPEN POSITION.**

**HEAVY DUTY HANDLE, TYP. PER GATE LEAF IN CLOSED POSITION AND (1) (2) CANE BOLTS WITH SLEEVE: (1) PER SURFACE POST MOUNT ON BUILDING OF GATE ON FRONT SIDE ONLY**

**PERFORATED STIFF FOAM OR PREFORMED ASPHALTIC JOINT SEALANT, FINISH TO BOTTOM OF SLAB**

**COMPRESSABLE JOINT OR LEAVE RECESSED TO EXPANSION MATERIAL. CUT OR PREFORMED ASPHALTIC JOINT SEALANT, FINISH TO BOTTOM OF SLAB**

**TYPICAL EXPANSION / ISOLATION JOINT - TYPICAL**

**DOUBLE LEAF SWING GATE**

**HEAVY DUTY GATE HINGE, TYP. PER GATE LEAF IN CLOSED POSITION**

**3" WIDE x 2" THICK TRIM @ PERIMETER**

**CELL CORE BOLTS EMBEDDED INTO CONCRETE SURFACE FOR OPEN AND CLOSED PLACEMENT**

**POLISHED UTILITY WALLS, TYP.**

**SCREEN ENCLOSURE WITH HANDS DANGLING SCREEN PANELS DEEP SPEC**

**FOR OPEN AND CLOSED POSITIONS**

**STACK S-1 EMBEDMENT, 2 3/8" O.D. X 11 GAUGE WALL GALVANIZED STEEL, BIKE RACK MANUFACTURED BY DUMOR, MODEL #83-00G, GALVANIZED**

**NOTE:**

- LIGHT BROOM FINISH ALL EXPOSED SURFACES.
PERENNIAL PLANTING

SCALE: 1/2" = 1'-0"

1. Tree Protection Zone
   - 18" Minimum
   - 4'-0" Maximum
   - Protection when planting
   - Keep out zone
   - Tree remains in place
   - Fencing to remain in place

2. Planting Details
   - Rootball:
     - Position crown 2" above finished grade
     - Set 1/2" - 1" higher than finishing grade

3. Plant Spacing
   - Uniformly offset from edge of bed
   - Adjoining plant type

4. Rootball Rectangular
   - Rootball modified
   - See "Tree Protection Fence"

5. Tree Staking Detail
   - Provide lowest practical height
   - Wooden stakes, polypropylene straps

6. Shrub Planting Detail
   - 1" above ground
   - Mound to settle
   - Maintain 2-3" off trunk
   - Positive drainage away
   - Finish grade

7. Planted Areas
   - Entirety of construction
   - Fencing to remain in place
   - Including during fence installation
   - NO equipment permitted
   - Limb and pruning of trees
   - See Section 01 56 39 - Temporary Tree Protection Fence

8. Scale: 1/2" = 1'-0"

9. Table
   - PLANTING SOIL MIX
     - Backfilling with soil mix
     - EXCAVATED TREE PIT

10. Soils Plan
    - Existing soil
    - Replanted soil
    - Backfilled
    - Pour water around
    - When planting hole has been filled

11. Rootball to settle the soil
    - Lightly tamp soil
    -arge tree form

12. Planning Soil First
    - Parallel to and away from stems
    - Loosen sides of root ball
    - Do not overcompact (max. 85%)

13. Planting Bed First
    - Center of plant
    - Positive drainage away
    - Finish grade providing

14. Placement
    - Positive drainage away
    - Finish grade providing

15. Center of Plant
    - Positive drainage away
    - Finish grade providing

16. Planting Area
    - Positive drainage away
    - Finish grade providing

17. Planting Soil Mix
    - Backfilling with soil mix
    - EXCAVATED TREE PIT

18. Planted Areas
    - Entirety of construction
    - Fencing to remain in place
    - Including during fence installation
    - NO equipment permitted
    - Limb and pruning of trees
    - See Section 01 56 39 - Temporary Tree Protection Fence

19. Tree Planting Detail
    - OPEN AREAS - LAWNS/MEADOWS
    - 12" SETBACK FOR GROUNDCOVER
    - 18" SETBACK FOR PERENNIALS

20. Table
    - PLANTING SPACING DETAIL
      - Typical
      - 2" between rows

21. Tree Spacing
    - Uniformly offset from edge of bed
    - Adjoining plant type

22. Center of Plant
    - Positive drainage away
    - Finish grade providing

23. Planting Area
    - Positive drainage away
    - Finish grade providing

24. Planting Soil Mix
    - Backfilling with soil mix
    - EXCAVATED TREE PIT

25. Planted Areas
    - Entirety of construction
    - Fencing to remain in place
    - Including during fence installation
    - NO equipment permitted
    - Limb and pruning of trees
    - See Section 01 56 39 - Temporary Tree Protection Fence

26. Scale: 1/2" = 1'-0"

27. Table
    - PLANTING SPACING, TYPICAL
      - 24" (2') 21" 3.50
      - 21" 18" 2.63
      - 18" 15 1/2" 1.94
      - 15" 13" 1.35
      - 10" 8 1/2" 0.59
      - 6" 5" 0.21
      - 9" 8" 0.50

28. Scale: 3/4" = 1'-0"

29. Table
    - PLANTING SOIL MIX
      - BACKFILLING WITH SOIL MIX
      - EXCAVATED TREE PIT

30. Soils Plan
    - Existing soil
    - Replanted soil
    - Backfilled
    - Pour water around
    - When planting hole has been filled

31. Rootball to settle the soil
    - Lightly tamp soil
    - Large tree form

32. Planning Soil First
    - Parallel to and away from stems
    - Loosen sides of root ball
    - Do not overcompact (max. 85%)

33. Planting Bed First
    - Center of plant
    - Positive drainage away
    - Finish grade providing

34. Placement
    - Positive drainage away
    - Finish grade providing

35. Center of Plant
    - Positive drainage away
    - Finish grade providing

36. Planting Area
    - Positive drainage away
    - Finish grade providing

37. Planting Soil Mix
    - Backfilling with soil mix
    - EXCAVATED TREE PIT

38. Planted Areas
    - Entirety of construction
    - Fencing to remain in place
    - Including during fence installation
    - NO equipment permitted
    - Limb and pruning of trees
    - See Section 01 56 39 - Temporary Tree Protection Fence

39. Scale: 1/2" = 1'-0"

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      - 24" (2') 21" 3.50
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      - 18" 15 1/2" 1.94
      - 15" 13" 1.35
      - 10" 8 1/2" 0.59
      - 6" 5" 0.21
      - 9" 8" 0.50
9. SLABS, JOIST AND BEAMS:

4. REINFORCING REQUIREMENTS:

11. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF COLUMNS, WALLS, OPENINGS ETC. WITH THE CONTRACTOR LICENSED IN THE STATE OF THE PROJECT. DESIGN INFORMATION SHALL BE SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER. SEE CONTRACT DOCUMENTS FOR DESIGN LOADS AND OTHER DESIGN CRITERIA.

18. SEE SHEET _____ FOR SPECIAL INSPECTIONS.

010000 - GENERAL STRUCTURAL NOTES

16. SHOP DRAWINGS SHALL BE REVIEWED AND STAMPED BY CONTRACTOR PRIOR TO SUBMISSION TO STRUCTURAL ENGINEER.

B. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE THE PRODUCT INDICATED ON DRAWINGS OR COMPARABLE PRODUCT

A. IF NO OTHER REINFORCING IS SHOWN IN A SLAB ON GRADE, PROVIDE 6x6-W1.4xW1.4 WWR AT THICKNESS/3 FROM TOP OF EXISTING SERVICE ON THE SITE.

C. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE THE PRODUCT INDICATED ON DRAWINGS OR COMPARABLE PRODUCT

B. THE ENTIRE ANCHOR SYSTEM SHALL BE EVALUATED TO COMPLY WITH THE APPLICABLE VERSION OF IBC AND BE CERTIFIED BY A PROFESSIONAL ENGINEER. SEE CONTRACT DOCUMENTS FOR DESIGN LOADS AND OTHER DESIGN CRITERIA.

10. JOIST SUPPLIER SHALL VERIFY THAT JOISTS AND BRIDGING ARE CAPABLE TO RESIST THE NET UPLIFT LOADS SPECIFIED.

13. JOIST SHOES AT ROOF DIAPHRAGMS SHALL BE CAPABLE OF TRANSMITTING THE BOUNDARY SHEAR (ROLL-OVER) TO THE SUPPORTING STRUCTURE. SEE ROOF PLAN FOR LOADS.

J. IT IS UNDESIRABLE TO HAVE A LARGE NUMBER OF CONDUITS ENTERING THE SLAB AT ONE LOCATION. IF THIS OCCURS, THE CONTRACTOR SHALL COORDINATE SIZES AND LOCATIONS OF STEEL SUPPLIER SHALL VERIFY THAT JOISTS AND BRIDGING ARE CAPABLE TO RESIST THE NET UPLIFT LOADS SPECIFIED.

G. KEYED CONTRACTION JOINTS IN WALLS: MAXIMUM SPACING OF 30'-0" c/c.

H. USE WATERSTOPS AT ALL BASEMENT WALL HORIZONTAL AND VERTICAL JOINTS.

D. LAP WELDED WIRE REINFORCING 1 SPACE + 2" AT ALL EDGES AND ENDS OF SHEETS.

E. WHERE OFF-SET SPLICES ARE USED IN THE COLUMN STEEL PLACE 3 SETS OF COLUMN TIES AT 2" c/c IMMEDIATELY BELOW AND IN CRACKED CONCRETE.

C. CONDUITS WITH OUTSIDE DIAMETER SMALLER THAN 1 IN. MAY BE LOCATED ANYWHERE WITHIN THE SLAB AS LONG AS THE ORIENTATION, EDGE DISTANCE, AND SPACING. BASIS OF DESIGN: HILTI KWIK BOLT TZ2

• MOISTURE CONDITION AT THE TIME OF INSTALLATION: DRY (IF WATER SATURATED, PRODUCT DATA SHALL BE PROVIDED IN CRACKED CONCRETE.

• MECHANICAL FASTENERS MAY BE USED IN LIEU OF WELDING TO FASTEN DECK. SUBMIT SUBSTITUTION REQUEST WITH DRAWINGS FOR FIRERATING REQUIREMENTS, METHODS AND MATERIALS.

A. WELDING:

C. AWS STANDARD WELDING SYMBOLS.

F. PROVIDE ANGLE SUPPORTS FOR METAL DECK RIBS AT COLUMNS WHEN THE COLUMN SIZE PREVENTS THE RIBS FROM

E. ALL BOLTED CONNECTIONS TO BE SHEAR/BEARING TYPE WITH BOLTS IN THE SNUG TIGHT CONDITION UNLESS NOTED OTHERWISE.

A. MINIMUM CONCRETE COVER, UNLESS NOTED OTHERWISE:

100000 - DESIGN LOADING NOTES

E. FABRICATE DECK UNITS IN LENGTHS TO SPAN THREE OR MORE SUPPORT SPACINGS.

F. SUBMIT STEEL REINFORCING SHOP DRAWINGS THAT DETAIL FABRICATION, BENDING AND PLACEMENT PRIOR TO FABRICATION.

A. ROOF DECK

C. WELDING ELECTRODES: AWS A5.1, A5.5 OR A5.18 SERIES E60.

C. NON-COMPOSITE FORM DECK:

A. ROLL-OVER SHEAR connections:

B. AISC 341 SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS, INCLUDING SUPPLEMENT 1.

5 LW SLABS-ON-METAL DECK 3500 PSI 0.50 3/8" MAX. AGGREGATE

7 CONCRETE OVER PRECAST, 3000 PSI 0.50 3/8" MAX. AGGREGATE

A. 20'-1" TO 26'-0" (3) ROWS @ 1/4 POINTS

B 81" 70" 62" 54" 55" 47"

B 81" 70" 62" 54"

B 28" 24" 22" 19"
7. TOP OF FOOTING ELEVATION 98'-0" UNLESS NOTED.
6. ELEVATIONS SHOWN ON PLAN ARE TOP OF THE FOOTING OR SLAB.
4. DESIGN SOIL BEARING PRESSURE 1500 PSF ASSUMED. ANY SOFT SPOTS OR VARIATIONS IN SUBSURFACE CONDITIONS SHALL BE
3. TOP OF SLAB ELEVATION 100'-0" EXCEPT AS NOTED. SEE CIVIL DRAWINGS FOR REFERENCE SITE ELEVATION.
12. SYMBOL LEGEND:

- DEPTH. FOOTINGS TO CENTER UNDER COLUMN OR WALL UNLESS NOTED.
- TESTING AGENCY SPECIALIZING IN SOILS INVESTIGATIONS. GEOTECHNICAL INFORMATION INCLUDED IN THE CONSTRUCTION
1. PROVIDE TOOLED JOINTS IN FRESH CONCRETE EACH SIDE OF WALLS WHERE SLABS POUR THRU DOORWAYS.
2. PROVIDE A #4 BARx3'-0" AT MID-DEPTH OF THE SLAB PERPENDICULAR TO JOINTS THAT TERMINATE AT A PARTICULAR JOINT.

SEE PLAN

T/3 (2" MIN) 6" MIN

1/8" 3/4" SAWED JOINT - CUT WITHIN 8 HRS OF SLAB POUR AND FILL w/ JT FILLER

T/4 T/3 (2" MIN) 2" 2"

SEE PLAN

PLAN INDICATION BARS TO MATCH FOOTING STEEL

NOTE: FOOTING STEP MAY BE SCALLED WHERE NO DIM ON PLAN

SEE FOUNDATION PLAN NOTES FROST DEPTH

LEAN CONCRETE. SEE GENERAL NOTES.

EXTEND MIN OF 6" BEYOND DOOR SWING.
EXTEND TO EDGES OF DOOR OPENING (IN/OUT OF PAGE)

SEE PLAN

GROUT CMU SOLID BELOW GRADE ISOLATION JT w/ FILLER

FOOTING STEEL

INTERRUPT CMU FND WALL @ PIER LOC'S, TYP

T/SLAB SEE PLAN

T/PIER SEE PLAN

T/FTG SEE PLAN

COVER ALL STL BELOW GRADE w/ MIN 3" CONC ISOLATION JT w/ FILLER 1 1/2" NON-SHRINK GROUT

SEE PLAN

3" CLR TYP 3" CLR

GROUT CMU SOLID BELOW GRADE

INTERRUPT CMU FND WALL @ PIER LOC'S, TYP

CONT FTG BEYOND (3) TIES IN TOP 5" OF PIER

SEE PLAN

COVER ALL STL BELOW GRADE w/ MIN 3" CONC ISOLATION JT w/ FILLER 1 1/2" NON-SHRINK GROUT

SEE PLAN

3" CLR TYP 3" CLR
**Non Wood Framing**

Unless otherwise indicated by the structural drawings utilize the following:

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<td>27</td>
<td>22</td>
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<tr>
<td>18</td>
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</table>

*(Example 6" = 600X1/100 inches)*

---

**Structural Metal Framing**

<table>
<thead>
<tr>
<th>Gauge</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSMA Product Identification</td>
<td>U Style:</td>
</tr>
<tr>
<td></td>
<td>Flange Width:</td>
</tr>
<tr>
<td>092900.1</td>
<td>GYPSUM BOARD</td>
</tr>
</tbody>
</table>

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**Partition General Notes**

1. **Fire Rated Ceilings**
2. **Cement Board Locations**
3. **Abuse Resistant Gypsum Board Locations (typ. in most spaces)**
4. **Regular Duty Gypsum Board Locations**

---

**Fire & Smoke Ratings**

- **3-Hour Rated Partition**
- **1-Hour Rated Partition**
- **E 2 5/8" Gypsum board on one side**
- **G 2 5/8" Gypsum board on one side**
- **F 1 5/8" Gypsum board on one side**

---

**NOTES:**

- **92-B** Fire resistive rating of up to 1 hour as indicated on the plans.
- **3 3/4"** limiting unbraced partition height 11' 0" (16' 0" C/C) 8" at 24" C/C)
- **91-A** Provide 1" space between unfinished side and adjacent concrete or masonry walls.
- **Non Loadbearing Partition**
- **Non Rated Partition**
- **96 4 Structure Above Structure Above**
- **2 6" Above Ceiling 6" Above Ceiling**
- **3 Structure Above Underside of Ceiling**
- **Partition Height Finish Height**

---

**Partition Types:**

- **92**
- **91**
- **A, 92**
- **A & 96**
- **B & 96**
- **092900.1**
- **092216.1**

---

**Notes on Wall Partitions:**

- All acoustic partitions shall have acoustical sealant at all perimeter joints and penetration joints for both sides of the wall. Openings in the finish membrane for opposite sides of drywall shall be wrapped in acoustic putty pads.
- All partitions shall have a minimum 1" air space around electrical boxes and at wall penetrations. Coordinate with electrical drawings.
- Restroom walls without tile shall be 3 1/8" fire rated, and all electrical boxes shall be 1 1/4" max depth. Coordinate with electrical drawings.
- Break room walls all electrical boxes shall be 1 1/4" max depth. Coordinate with electrical drawings.
- **4 Structure Above**
- **3 1/8"**

---

**Wall Partitions**

**Drawing Issue Dates**

- **Schematic Design Submittal:** 9/1/2023
- **Design Development Submittal:** 10/11/2023

---

**MKSK Consultants:**

Address: 462 Ludlow St, Columbus OH 43215

**evokestudio.com**

Address: 401 Foster St, Durham NC 27701

---

**Schooley Caldwell**

Address: 2060 E Lampson Ave Columbus, OH 43207
NEW WORK - CODES NOTES
- New plumbing fittings to connect to the new floor
- New plumbing fittings to connect to the new floor
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- New plumbing fitting...
OPEN TO STRUCTURE ABOVE

CE1

OPEN TO STRUCTURE ABOVE

CE2

OPEN TO ABOVE ZONE FOR LINEAR SLOT DIFFUSERS AND OTHER CEILING DEVICES

ACM 1

ACM 2

Fixture Type B typical

Fixture Type M typical

16' - 0"

7' - 0"

14' - 0"

14' - 0"

16' - 0"

Fixture Type B typical

1' - 0"

1' - 0"

1' - 0"

1' - 0"

11' - 6"

11' - 6"

CE4

CE5

REFLECTED CEILING PLAN LEGEND

1. ACT (095113.1.1)

2. Gypsum Board (095113.1.2, 095113.1.3)

3. Interior wood panel ceiling (095426)

4. Felt Ceiling (095113.1.4)

LIGHTING LEGEND

4" RECESSED CAN

2X2 RECESSED

2X4 RECESSED

4' IN HUNG STRIP LIGHT

48" AND 32" DECORATIVE FIXTURE

4' SUSPENDED PENDANT

TRACK LIGHT

GENERAL NOTES

A. PROVIDE CE5 AT ALL EXPOSED CEILINGS IN PUBLIC SPACES.

B. LAY-IN CEILINGS SHALL BE CE1 UNLESS OTHERWISE NOTED.

C. CE2 BULKHEAD AT SKYLIGHTS. PROVIDE LED STRIP LIGHT ACCENT AT SKYLIGHTS.

REFLECTED CEILING PLAN - GENERAL NOTES

1. Coordinate with other disciplines regarding finish details.

2. Ceiling is constructed per drawing on adjacent building.

3. For assistance call Schooley Caldwell @ 614-628-0300.

4. This sheet provides a complete ceiling elevation.

5. This sheet provides a view of the proposed ceiling elevation.

6. This sheet provides a view of the proposed ceiling elevation.

7. This sheet provides a view of the proposed ceiling elevation.

8. This sheet provides a view of the proposed ceiling elevation.

Drawingsheet:

Issue Date

Design Development Submittal

Schematic Design Submittal

Civil Engineer

Moody Engineering

300 Spruce St Suite 200, Columbus OH 43215

Lighting Design

Address

Landscape Architect

MKSK

462 Ludlow St, Columbus OH 43215

Structural Engineer

SMBH

1166 Dublin Rd Suite 200, Columbus OH 43215

MEP Engineer

Advanced Engineering Consultants

1405 Dublin Rd, Columbus OH 43215

Lighting Design

Zinkon Creative Studio

1209 Hill Rd N Suite 121, Pickerington OH 43147

401 Foster St, Durham NC 27701

evokestudio.com

919-495-6079

10/11/2023 3:07:34 PM

Autodesk Docs://Barnett Metropolitan Library/22160_Barnett_11K_CML_v2022.rvt

CML Barnett

Branch

Addition/Renovation

3434 E Livingston Ave, Columbus, OH 43227

10/11/2023

9/1/2023

Issue Date

Reflected Ceiling Plan

A151

22160

1/8" = 1'-0"
HOLLOW METAL DOOR TYPES
- Aluminum
- Hollow Metal

New
- Transparent Finish
- Existing
- Shop Prime Only

Wood
- Factory Finish

HOLLOW METAL FRAME TYPES

Door & Frame Schedule:

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<thead>
<tr>
<th>Door Type</th>
<th>Description</th>
<th>Status</th>
<th>Material</th>
<th>Finish</th>
<th>Glazing Type</th>
<th>Type</th>
<th>Remarks</th>
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<td>AL2</td>
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Door Notes:
- Fire Rating: [details]
- Glazing: [details]
- Finish: [details]
- Material: [details]

Hollow Metal Door and Frame - Jamb Detail

Hollow Metal Door and Frame - Head Detail

Concealed frame anchor

3" = 1'-0"
GENERAL SHEET NOTES

1. EXISTING TRAP PRIMER AND ASSOCIATED PIPING TO BE REMOVED.
2. DISCONNECT EXISTING GAS PIPING FROM EXISTING HVAC EQUIPMENT. EXISTING GAS PIPING TO BE REMOVED.
3. EXISTING LIMITED AREA SPRINKLER PIPING TO BE REMOVED.
4. EXISTING LIMITED AREA SPRINKLER SYSTEM IN THIS AREA TO BE REMOVED.
5. ALL EXISTING PLUMBING FIXTURES, HOT & COLD WATER, SANITARY AND VENT PIPING IN THIS AREA TO BE REMOVED. EXISTING 3" VTR TO REMAIN.
6. EXISTING GAS METER ASSEMBLY AND ASSOCIATED PIPING TO BE REMOVED.
7. EXISTING DOMESTIC WATER SERVICE ENTRANCE AND ASSOCIATED PIPING TO BE REMOVED.
8. EXISTING ELECTRIC WATER HEATER AND ASSOCIATED PIPING TO BE REMOVED.
9. EXISTING FLOOR DRAIN AND ASSOCIATED PIPING TO BE REMOVED.
10. EXISTING SINK, FAUCET AND TRIM TO BE REMOVED. EXISTING HOT & COLD WATER AND SANITARY PIPING TO REMAIN.
### PLUMBING FIXTURE SCHEDULE

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>SIZE</th>
<th>SITE</th>
<th>MATERIAL</th>
<th>CODE</th>
<th>NOTES</th>
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<tr>
<td>S1</td>
<td>1-1/2&quot;</td>
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### TMV1 Thermostatic Mixing Valve
- **Manufacturer**: Bradley S59-3045
- **Set Temperature**: 110°F

### Mop Sink
- **Model**: Elkay EZSTL8WSLK
- **Specifications**
  - **Size**: 24" x 24"
  - **Material**: Precast Terrazzo One Piece Products made of Marble Chips Cast in Grey Portland Cement
  - **Height**: 12"
  - **Shoulders**: Not less than 2" wide with 1/2" pitch toward inside
  - **Stainless Steel Caps**: On all centers

### Trimming
- **Wall Mounted Service Sink Faucet**: Polished Chrome Plated Finish, Solid Brass Body Construction, Atmospheric Vacuum Breaker Spout with Pail Hook and Wall Brace, 3/4" Male Garden Hose Thread Outlet, Lever Trim
- **Supply Pipe**: With Loose Key Stops
- **Cast Brass P-Trap**: With Clean-Out
- **Drain**: With Chrome Plated Cast Brass Solid Top, Open Grid, P.O. Plug, Chrome Plated Brass 17 Gauge Tailpiece

### Carrier Water Cooler Support
- **Model**: Zurn Series Z1200
- **Support Details**: Top and Bottom Plates, Rectangular Steel Uprights with Welded Feet, Adjustable Support Plates and Mounting Fasteners

### Faucet
- **Model**: American Standard 2234.001
- **Deck Mounted**: 8" Widespread Faucet, Polished Chrome Plated Finish, Solid Brass Body Construction, 8" Centers, 8" Swing Spout, 0.5 GPM Pressure Compensating Aerator Outlet, Wing Metal Handles and Secured

### Crawlspace
- **Water Line**: CFH Input Minimum
- **Expansion Tank**: Recovery at
- **Heat Strips**: HZ
- **Floor Drain**: FD
- **Cubical Inches**: CU
- **Temperature**: TEMP
- **Reduction Pressure Backflow Preventer**: RPBP
- **Department**: DEPT
- **Non-Potable Water**: NPW
- **Maximum**: MAX
- **Sheet**: SHT
- **Not in Contract**: NIC
- **Not Applicable**: N/A
- **Pounds Per Square Inch**: PSI
- **Kilowatts**: KW
- **GPM**: GALLONS
- **Cubic Inches**: CU
- **Centers**: HC
- **Brackets**: BR

### General Notes
- Shall be approved by architect and shall maintain required
- Tight to the underside of deck as possible. All exposed piping
- Maintain maximum headroom at all locations. All piping to be as
- Other areas. Coordinate the location of all piping with
- Piping. Stanchions shall be used where piping is unable to be
- In mechanical areas, piping shall not be attached to the duct
- Piping shall not share supports with other building systems.
- No fabrication or installation is allowed without approved
- Members, mechanical equipment and pipes.
- With lighting fixtures, diffusers, grilles, ducts, structural
- Equipment and construction.
- Ductwork, piping, mechanical equipment and ceilings shall not
- Devices or equipment found faulty shall be replaced as part
- From the date of final acceptance by the owner. Any new
- Material and labor shall be under warranty for one year
- Job site concerning existing and new work before proceeding
- Maintain proper clearances.

### Plumbing Fixtures
- **General Notes**: These drawings are diagrammatic in nature and are not
- Connection points, floor drains and hub drains for equipment
- Natural gas for this building. Provide all necessary
INVERT ELEVATION OF 4" SAN = 96.00' WITH A FINISH FLOOR ELEVATION OF 100.00'.

INVERT ELEVATION OF 6" ST = 97.00' WITH A FINISH FLOOR ELEVATION OF 100.00'.
GENERAL SHEET NOTES

SHEET KEYNOTES
1. WATER SERVICE ENTRANCE. SEE DETAIL ON SHEET P501.
2. GAS METER ASSEMBLY. SEE DETAIL ON SHEET P501.
3. CONNECT 2" V TO EXISTING VENT IN THIS AREA.
4. SKYLIGHT. AVOID ROUTING PIPING THROUGH THIS SPACE.
5. CONNECT EXISTING 1/2" CW, 1/2" HW AND 1"-1/2" SAN TO NEW SINK.
6. 4" ST TO BELOW SLAB WITH CLEANOUT AT BASE.
7. 6" ST TO BELOW SLAB WITH CLEANOUT AT BASE.
PRESSURE GAUGE WITH GAUGE COCK RANGE 0 - 150 PSI TO DOMESTIC WATER SYSTEM

4" ASSE #1013 REDUCED PRESSURE BACKFLOW PREVENTER. PROVIDE AIR GAP FITTING AND EXTEND DRAIN FULL SIZE TO NEAREST FLOOR DRAIN

OS&Y

FLOOR SUPPORT (TYP)

FLOOR DRAIN

STRAINER

MIN. 12" ABOVE DRAIN

WATER METER WITH BYPASS. INSTALL PER L-6317C.

29"

52"

24" MIN.

30" MAX.

NOTES:

1. CLEARANCE FROM WATER METER TO WALL TO BE 18".

BIRD SCREEN

4" PVC EXHAUST

4" PVC INTAKE

ROOF

FLOOR

TMV1

THERMOMETER. RANGE 30 TO 180F

4" HOUSEKEEPING PAD

GWH1

ET1

RCP1

PRESSURE GAUGE WITH GAUGE COCK. RANGE 0 TO 150 PSI

TEMPERATURE PRESSURE RELIEF VALVE WITH DISCHARGE PIPE DOWN TO 6" ABOVE FLOOR

GAS LINE TO WATER HEATER

3/4" DRAIN FURNISHED WITH WATER HEATER
GENERAL SHEET NOTES

1. REFER TO SHEET H001 FOR GENERAL NOTES.

2. DEMOLISH ALL EXISTING HVAC ASSOCIATED ITEMS. THIS INCLUDES EQUIPMENT, DUCTWORK, GRILLES, DIFFUSERS, EQUIPMENT PADS, CONDENSATE PIPING, REFRIGERANT PIPING, THERMOSTATS AND ALL APPURTENANCES COMPLETE.

SHEET KEYNOTES

1. DEMOLISH ALL EXISTING HVAC ASSOCIATED ITEMS WITHIN THE BOXED AREA. THIS INCLUDES EQUIPMENT, DUCTWORK, GRILLES, DIFFUSERS, EQUIPMENT PADS, CONDENSATE PIPING, REFRIGERANT PIPING, THERMOSTATS AND ALL APPURTENANCES COMPLETE.
1. PROVIDE OUTSIDE AIR UNIT DOAS - 1. REFER TO DETAIL H502 FOR MORE INFORMATION. REFER TO SHEET H601 FOR MORE INFORMATION.

2. PROVIDE HP - 1. REFER TO SHEET H602 FOR MORE INFORMATION.

3. PROVIDE HP - 2. REFER TO SHEET H602 FOR MORE INFORMATION.

4. PROVIDE ROOF MOUNTED EXHAUST FAN. REFER TO SHEET H601 FOR MORE INFORMATION.

5. PROVIDE ROOF CAP FOR EXHAUST PENETRATION.

GENERAL SHEET NOTES

1. REFER TO SHEET H001 FOR GENERAL NOTES.

SHEET KEYNOTES

1. PROVIDE OUTSIDE AIR UNIT.
2. PROVIDE OUTSIDE AIR UNIT.
3. PROVIDE OUTSIDE AIR UNIT.
4. PROVIDE OUTSIDE AIR UNIT.
5. PROVIDE OUTSIDE AIR UNIT.
General Sheet Notes:
- Provide isolation ball valves for each refrigerant piping connection at the route condensate piping to floor drain. Provide minimum 2" air gap.
- Recommendations.
- Provide refrigerant piping from BS - 2 and BS - 3 to CU-1. Install per manufacturer's piping and equipment drawings.

Sheet Keynotes:
- Refrigerant piping shown is schematic in nature. Actual path and routing shown on adjacent sheet.
- Any additional equipment, electrical work, etc., for basis of design will be required to be provided at the expense of the mechanical contractor.
1. REFER TO SHEET H001 FOR GENERAL NOTES.

SHEET KEYNOTES

1. PROVIDE REFRIGERANT PIPING ROOF PENETRATION. SEAL WATERTIGHT.
1. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH.
2. PROVIDE GRAVITY BACKDRAFT DAMPER.
3. PROVIDE FACTORY INSTALLED DISCONNECT SWITCH.
4. PROVIDE 24" ROOF CURB.
5. OUTSIDE AIR MEASUREMENT SYSTEM.
6. PROVIDE 18" TALL EQUIPMENT STAND FOR OUTDOOR UNIT.
7. PROVIDE BLUE DIAMOND MAXIBLUE CONDENSATE PUMP WITH RESEVOIR & SENSOR (208V).
8. PROVIDE 14" TALL INSULATED CURB.

**NOTES:**
- Indoors Exposed to View in Unfinished Indoors Exposed to View in Finished
- Indoors Concealed From View
- Winter Season or CAV <2000 CFM"
5. PROVIDE DISCHARGE AIR TEMPERATURE SENSOR BY MANUFACTURER (OR BY TEMPERATURE CONTROLS CONTRACTOR IF NEEDED).

3. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH.

2. PROVIDE BALL VALVES IN REFRIGERANT LINES FOR EQUIPMENT SERVICING. INSTALL IN ACCESSIBLE LOCATIONS.

<table>
<thead>
<tr>
<th>Unit Description</th>
<th>Cooling Capacity (APPROX.)</th>
<th>Heating Capacity (APPROX.</th>
<th>Volts Phases</th>
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NOTES:
1. INSTALL UNIT ON 12" RAIL SUPPORTS. DO NOT INSTALL UNIT DIRECTLY ON CURB OR ROOF.
A. The BAS communications interface shall be provided by the unit manufacturer.

B. Morning Cool-Down

- The unit shall operate similar to the occupied mode with the following exceptions:
  - The DAT setpoint may be reset based on outdoor air temperature. A linear relationship of 85°F to a temperature of 76°F at an outdoor air temperature of 20°F. All values shall be maximum DAT setpoints. The DAT is to be reset from 62°F at an outdoor air temperature of 85°F to 76°F at an outdoor air temperature of 20°F.

C. System Points:

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<td>Monitor Domestic Water circulation pump status</td>
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</table>

E. Monitor Domestic Water circulation pump status through the Building Automation System.
F. Integrate Electric Meter reading with Building Automation System.

1. Wiring and termination of the BAS to the interface shall be provided by the BAS contractor. Final terminations shall be verified by the representative of the unit contractor. Final terminations shall be verified by the representative of the unit contractor. Final terminations shall be verified by the representative of the unit contractor. Final terminations shall be verified by the representative of the unit contractor.

2. The unit shall operate similar to the space temperature setpoint. When the space temperature is greater than the setpoint, the unit shall modulate the heating section to maintain the adjustable setpoint. Heater shall be locked out if outside air temperature is above 55°F (adjustable).

3. The unit is provided with fully modulating, sub-cooling, hot gas reheat coil.

4. When a call for both cooling and dehumidification is made, the reheat setpoint is set as the LCT setpoint (adjustable) and the reheat coil is controlled to maintain the supply air dew point in the space rises above the dehumidification setpoint.

5. The controls shall utilize both leaving coil temperature sensor (LCT), and discharge air temperature and humidity sensor (DHT) to maintain the supply air dew point in the space rises above the dehumidification setpoint.

6. Discharge Air Temperature (DAT) Reset

- The unit is provided with fully modulating, sub-cooling, hot gas reheat coil.

- During dehumidification, the refrigeration circuit controls the compressor(s) to maintain the LCT setpoint (adjustable) and the reheat coil is controlled to maintain the supply air dew point in the space rises above the dehumidification setpoint.

- The controls shall utilize both leaving coil temperature sensor (LCT), and discharge air temperature and humidity sensor (DHT) to maintain the supply air dew point in the space rises above the dehumidification setpoint.

7. The unit shall operate similar to the space temperature setpoint. When the space temperature is greater than the setpoint, the unit shall modulate the heating section to maintain the adjustable setpoint. Heater shall be locked out if outside air temperature is above 55°F (adjustable).

- The cooling mode shall remain disabled.

- The heating mode shall remain disabled.

- The exhaust fan shall remain off. Energy recovery wheel shall be off.

- The outside air dampers and exhaust air dampers shall remain fully closed. The dampers shall remain fully closed for 15 minutes after satisfaction of the space setpoint.

8. The unit shall operate similar to the space temperature setpoint. When the space temperature is greater than the setpoint, the unit shall modulate the heating section to maintain the adjustable setpoint. Heater shall be locked out if outside air temperature is above 55°F (adjustable).

- The cooling mode shall remain disabled.

- The heating mode shall remain disabled.

- The exhaust fan shall remain off. Energy recovery wheel shall be off.

- The outside air dampers and exhaust air dampers shall remain fully closed. The dampers shall remain fully closed for 15 minutes after satisfaction of the space setpoint.

9. The unit shall operate similar to the space temperature setpoint. When the space temperature is greater than the setpoint, the unit shall modulate the heating section to maintain the adjustable setpoint. Heater shall be locked out if outside air temperature is above 55°F (adjustable).

- The cooling mode shall remain disabled.

- The heating mode shall remain disabled.

- The exhaust fan shall remain off. Energy recovery wheel shall be off.

- The outside air dampers and exhaust air dampers shall remain fully closed. The dampers shall remain fully closed for 15 minutes after satisfaction of the space setpoint.

10. The unit shall operate similar to the space temperature setpoint. When the space temperature is greater than the setpoint, the unit shall modulate the heating section to maintain the adjustable setpoint. Heater shall be locked out if outside air temperature is above 55°F (adjustable).

- The cooling mode shall remain disabled.

- The heating mode shall remain disabled.

- The exhaust fan shall remain off. Energy recovery wheel shall be off.

- The outside air dampers and exhaust air dampers shall remain fully closed. The dampers shall remain fully closed for 15 minutes after satisfaction of the space setpoint.

11. The unit shall operate similar to the space temperature setpoint. When the space temperature is greater than the setpoint, the unit shall modulate the heating section to maintain the adjustable setpoint. Heater shall be locked out if outside air temperature is above 55°F (adjustable).

- The cooling mode shall remain disabled.

- The heating mode shall remain disabled.

- The exhaust fan shall remain off. Energy recovery wheel shall be off.

- The outside air dampers and exhaust air dampers shall remain fully closed. The dampers shall remain fully closed for 15 minutes after satisfaction of the space setpoint.

12. The unit shall operate similar to the space temperature setpoint. When the space temperature is greater than the setpoint, the unit shall modulate the heating section to maintain the adjustable setpoint. Heater shall be locked out if outside air temperature is above 55°F (adjustable).

- The cooling mode shall remain disabled.

- The heating mode shall remain disabled.

- The exhaust fan shall remain off. Energy recovery wheel shall be off.

- The outside air dampers and exhaust air dampers shall remain fully closed. The dampers shall remain fully closed for 15 minutes after satisfaction of the space setpoint.

13. The unit shall operate similar to the space temperature setpoint. When the space temperature is greater than the setpoint, the unit shall modulate the heating section to maintain the adjustable setpoint. Heater shall be locked out if outside air temperature is above 55°F (adjustable).

- The cooling mode shall remain disabled.

- The heating mode shall remain disabled.

- The exhaust fan shall remain off. Energy recovery wheel shall be off.

- The outside air dampers and exhaust air dampers shall remain fully closed. The dampers shall remain fully closed for 15 minutes after satisfaction of the space setpoint.

14. The unit shall operate similar to the space temperature setpoint. When the space temperature is greater than the setpoint, the unit shall modulate the heating section to maintain the adjustable setpoint. Heater shall be locked out if outside air temperature is above 55°F (adjustable).

- The cooling mode shall remain disabled.

- The heating mode shall remain disabled.

- The exhaust fan shall remain off. Energy recovery wheel shall be off.

- The outside air dampers and exhaust air dampers shall remain fully closed. The dampers shall remain fully closed for 15 minutes after satisfaction of the space setpoint.

15. The unit shall operate similar to the space temperature setpoint. When the space temperature is greater than the setpoint, the unit shall modulate the heating section to maintain the adjustable setpoint. Heater shall be locked out if outside air temperature is above 55°F (adjustable).

- The cooling mode shall remain disabled.

- The heating mode shall remain disabled.

- The exhaust fan shall remain off. Energy recovery wheel shall be off.

- The outside air dampers and exhaust air dampers shall remain fully closed. The dampers shall remain fully closed for 15 minutes after satisfaction of the space setpoint.

16. The unit shall operate similar to the space temperature setpoint. When the space temperature is greater than the setpoint, the unit shall modulate the heating section to maintain the adjustable setpoint. Heater shall be locked out if outside air temperature is above 55°F (adjustable).

- The cooling mode shall remain disabled.

- The heating mode shall remain disabled.

- The exhaust fan shall remain off. Energy recovery wheel shall be off.

- The outside air dampers and exhaust air dampers shall remain fully closed. The dampers shall remain fully closed for 15 minutes after satisfaction of the space setpoint.
### ABBREVIATIONS

- CCTV: Closed Circuit Television
- AWG: American Wire Gauge
- PWR: Power
- MCC: Motor Control Center
- UNO: Unless Noted Otherwise
- MDP: Main Distribution Panel
- MCA: Minimum Circuit Ampacity
- HOA: Hand-Off-Automatic
- GEN: Generator
- MSB: Main Switchboard
- EMT: Electrical Metal Tubing
- MTS: Manual Transfer Switch
- NAC: Notification Appliance Circuit
- AFG: Above Finished Grade
- UTP: Unshielded, Twisted Pair
- BPS: Bolted Pressure Switch
- DTT: Double Twin Tube
- TRT: Triple Tube
- STP: Shielded, Twisted Pair
- LTG: Lighting or Light
- TYP: Typical
- FLA: Full Load Amps
- IMC: Intermediate Metal Conduit
- AIC: Amps Interrupting Capacity
- WH: Watthour
- WP: Weatherproof, NEMA 3R UNO
- KW: Kilowatt
- CM: Construction Manager
- GC: General Trades Contractor
- NO: Normally Open
- NC: Normally Closed
- (R): Existing to be Relocated
- (D): Existing to be Demolished
- DP: Distribution Panelboard
- CB: Circuit Breaker
- HP: Horsepower
- NF: Non-Fused
- EB: Electronic Ballast
- PA: Public Address
- IG: Isolated Ground
- W: Watt
- ∅: Phase
- ADJ: Additional Information

### LIGHTING SYMBOLS

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<tr>
<th>Symbol</th>
<th>Description</th>
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### POWER SYMBOLS

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### FIRE ALARM SYMBOLS

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### LINE TYPE LEGEND

- LSZH: Low Smoke Zero Halogen
- PVC: Polyvinyl Chloride
- MC: Metal Clad
- THHN: Thermoplastic Insulation
- EMT: Electrical Metallic Tubing
- CS: Copper Jacketed Steel
- MCI: Multi-Core Insulation
- LIM: Liquidtight Intermediate
- U-CON: Underground Conductor

### ADDITIONAL INFORMATION

- PANELBOARD:
- DIMMER:
- INFRARED; X=US-ULTRASONIC
- X=BLANK-DUAL TECHNOLOGY; X=IR-PASSIVE
- PHOTOCELL
- X=3-THREE WAY; X=4-FOUR WAY; X=P-PILOT LIGHT; SWITCH: X=BLANK-SINGLE POLE 20A, TOGGLE
- EXIT SIGN WITH INTEGRAL HEADS
- EMERGENCY DUAL FACE ILLUMINATED EXIT SIGN
- DIRECTIONAL ARROWS
- CEILING MOUNTED ILLUMINATED EXIT SIGN WITH EXIT SIGN
- EMERGENCY LIGHT
- STEP LIGHT
- REMOTE HEAD
- TRACK LIGHTING HEAD
- LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION
- WALL MOUNTED FLOOD LIGHT: REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION
- GENERAL PURPOSE LUMINAIRE ON EMERGENCY

### REVISED

- DATE: 0300
- NUMBER: 002
### ELECTRICAL ENGINEER LUMINAIRe SCHEDULE

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### LIGHTING CONSULTANT LUMINAIRe SCHEDULE

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<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Model</th>
<th>Quantity</th>
<th>Location</th>
<th>Notes</th>
</tr>
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<tbody>
<tr>
<td>A</td>
<td>A RECESSED LED DOWNLIGHT</td>
<td>A1</td>
<td>200</td>
<td>3434 E Livingston Ave, Columbus, OH 43227</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>C 2X4 RECESSED VOLUMETRIC LED TROFFER</td>
<td>C2</td>
<td>100</td>
<td>3434 E Livingston Ave, Columbus, OH 43227</td>
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<tr>
<td>C</td>
<td>C1 2X4 RECESSED LED FLAT PANEL</td>
<td>C1</td>
<td>50</td>
<td>3434 E Livingston Ave, Columbus, OH 43227</td>
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<tr>
<td>D</td>
<td>C2 2X2 RECESSED VOLUMETRIC LED TROFFER</td>
<td>C2</td>
<td>30</td>
<td>3434 E Livingston Ave, Columbus, OH 43227</td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>EMERGENCY LIGHTING UNIT WITH 2 ADJUSTABLE HEADS AND INTEGRAL 90-MIN BATTERY</td>
<td>EM</td>
<td>10</td>
<td>3434 E Livingston Ave, Columbus, OH 43227</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>EX EXIT SIGN WITH INTEGRAL 90-MIN EMERGENCY BATTERY</td>
<td>EM</td>
<td>20</td>
<td>3434 E Livingston Ave, Columbus, OH 43227</td>
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<tr>
<td>G</td>
<td>SUSPENDED DECORATIVE LUMINAIRE</td>
<td>G1</td>
<td>15</td>
<td>3434 E Livingston Ave, Columbus, OH 43227</td>
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</tr>
<tr>
<td>H</td>
<td>EXTERIOR WALL PACK</td>
<td>H</td>
<td>20</td>
<td>3434 E Livingston Ave, Columbus, OH 43227</td>
<td></td>
</tr>
<tr>
<td>I</td>
<td>J EXTERIOR DIRECT/INDIRECT CYLINDER</td>
<td>J</td>
<td>10</td>
<td>3434 E Livingston Ave, Columbus, OH 43227</td>
<td></td>
</tr>
<tr>
<td>J</td>
<td>K UTILITY STIRP LIGHT WITH CHAIN HANGER</td>
<td>K</td>
<td>5</td>
<td>3434 E Livingston Ave, Columbus, OH 43227</td>
<td></td>
</tr>
<tr>
<td>K</td>
<td>L RECESSED LED WALLWASHER</td>
<td>L</td>
<td>50</td>
<td>3434 E Livingston Ave, Columbus, OH 43227</td>
<td></td>
</tr>
</tbody>
</table>
GENERAL SHEET NOTES

1. MAIN BREAKER: ELECTRONIC TRIP LSI TYPE, 100% RATED WITH ARC FLASH REDUCTION. MAINTENANCE SWITCH ('ARMS') TO SATISFY NEC 240.87. BREAKER SHALL FEATURE ELECTRONIC TRIP WITH LSI SETTINGS.

2. BOND NEUTRAL TO GROUND AT SERVICE ENTRANCE EQUIPMENT. PROVIDE GROUNDING ELECTRODE CONDUCTOR TO UL LISTED INTERSYSTEM GROUND BAR. REFER TO DETAIL 3/E5.01.

3. PROVIDE BONDING JUMPERS FROM GROUND BAR TO EACH GROUNDING ELECTRODE IN ACCORDANCE WITH NEC ARTICLE 250.

4. PROVIDE 10' X 3/4" DIA. UL LISTED GROUND ROD(S) AS REQUIRED. REFER TO DETAIL 4/E5.01.

5. SECONDARY SERVICE LATERAL: 4 SETS OF 4-#500KCMIL (AL) IN 4" C.

6. EXISTING PANELBOARD SHALL BE REPLACED WITH NEW PANELBOARD. EXISTING BRANCH CIRCUITS THAT ARE NOT SHOWN TO BE DEMOLISHED SHALL BE MAINTAINED AND CONNECTED TO NEW PANELBOARD. REFER TO PANELBOARD SCHEDULE FOR QUANTITY OF EXISTING CIRCUITS.
GENERAL SHEET NOTES

1. DRAWING REPRESENTS AN APPROXIMATION OF INITIAL CONDITIONS. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXTENT OF DEMOLITION WORK PRIOR TO BID WITH OWNER.

2. UNLESS NOTED OTHERWISE, WHERE CEILINGS, WALLS, AND PARTITIONS ARE TO BE DEMOLISHED ON ARCHITECTURAL DRAWINGS, ALL EXISTING SECURITY, TELECOMMUNICATIONS, AND LOW VOLTAGE DEVICES AND EQUIPMENT SHALL BE REMOVED. REMOVE ALL ASSOCIATED WIRING AND CONDUIT COMPLETELY BACK TO SOURCE.

3. CONTRACTOR SHALL COORDINATE THE DOCUMENTATION AND REMOVAL OF ALL DATA AND VOICE CABLES BACK TO EXISTING IT RACK AND TELEPHONE BOARD WITH THE OWNER.

4. ALL REMAINING OPEN JUNCTION BOXES OR BACK BOXES AS A RESULT OF DEMOLITION WORK SHALL BE CLOSED WITH BLANK COVERPLATES AND KNOCKOUT CLOSURES MATCHING EXISTING FINISH.

5. CONTRACTOR SHALL REMOVE ANY EXISTING CABLES DISCOVERED ABOVE ACCESSIBLE CEILING SPACE DURING DEMOLITION PHASE.

6. COORDINATE EXTENT OF SECURITY SYSTEM DEMOLITION WITH OWNER PRIOR TO DEMOLITION WORK.

7. ALL DATA CABLING OF REMOVED DEVICES SHALL BE COMPLETELY REMOVED BACK TO EXISTING IT RACK.

SHEET KEYNOTES

1. EXISTING 2 POST DATA RACK TO BE REMOVED AND TURNED OVER TO THE OWNER.

2. EXISTING EXTERIOR WIRELESS ACCESS POINT AND ASSOCIATED DATA CABLING TO BE REMOVED COMPLETE. MAINTAIN ROUGH-IN AND PATHWAY FOR NEW DEVICE. SEE SHEET T101 FOR NEW WORK IN THIS LOCATION.

3. EXISTING TELECOM SERVICE ENTRANCE LOCATION. REMOVE / ABANDON AND REPLACE WITH NEW TELECOM SERVICE ENTRANCE. SEE SHEET ES101 FOR NEW ENTRANCE PATHWAY AND REQUIREMENTS.

Revision Schedule

# Description Date

1.
### Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO</td>
<td>Automatic</td>
</tr>
<tr>
<td>CCTV</td>
<td>Closed Circuit Television</td>
</tr>
<tr>
<td>TEBC</td>
<td>Telecommunications Equipment Bonding</td>
</tr>
<tr>
<td>TBBC</td>
<td>Telecommunications Backbone Bonding</td>
</tr>
<tr>
<td>OFOI</td>
<td>Owner Furnished, Owner Installed</td>
</tr>
<tr>
<td>OFCI</td>
<td>Owner Furnished, Contractor Installed</td>
</tr>
<tr>
<td>CMR</td>
<td>Communications Riser</td>
</tr>
<tr>
<td>CMP</td>
<td>Communications Plenum</td>
</tr>
<tr>
<td>MHZ</td>
<td>Megahertz</td>
</tr>
<tr>
<td>TGB</td>
<td>Telecommunications Grounding Busbar</td>
</tr>
<tr>
<td>REV</td>
<td>Revision</td>
</tr>
<tr>
<td>UTP</td>
<td>Unshielded, Twisted Pair</td>
</tr>
<tr>
<td>TYP</td>
<td>Typical</td>
</tr>
<tr>
<td>FFB</td>
<td>From Floor Below</td>
</tr>
<tr>
<td>FFA</td>
<td>From Floor Above</td>
</tr>
<tr>
<td>WM</td>
<td>Wall Mounted</td>
</tr>
<tr>
<td>DIA</td>
<td>Diameter</td>
</tr>
<tr>
<td>mm</td>
<td>Millimeter</td>
</tr>
<tr>
<td>WP</td>
<td>Weatherproof</td>
</tr>
<tr>
<td>RM</td>
<td>Room</td>
</tr>
<tr>
<td>GC</td>
<td>General Trades Contractor</td>
</tr>
<tr>
<td>EM</td>
<td>Emergency</td>
</tr>
<tr>
<td>OC</td>
<td>On Center</td>
</tr>
<tr>
<td>CU</td>
<td>Copper</td>
</tr>
<tr>
<td>NC</td>
<td>Normally Closed</td>
</tr>
<tr>
<td>ER</td>
<td>Equipment Room (MDF)</td>
</tr>
<tr>
<td>EC</td>
<td>Electrical Contractor</td>
</tr>
<tr>
<td>AP</td>
<td>Wireless Access Point</td>
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<tr>
<td>EA</td>
<td>Each</td>
</tr>
<tr>
<td>BB</td>
<td>Backbone</td>
</tr>
<tr>
<td>SP</td>
<td>Service Provider</td>
</tr>
<tr>
<td>TV</td>
<td>Television</td>
</tr>
<tr>
<td>IN</td>
<td>Inches</td>
</tr>
<tr>
<td>M</td>
<td>Meter</td>
</tr>
<tr>
<td>C</td>
<td>Ceiling Mounted</td>
</tr>
<tr>
<td>V</td>
<td>Volts</td>
</tr>
</tbody>
</table>

### Telecommunications Symbols

#### Security Symbols

#### Pathway Requirements

#### Line Type Legend

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Addition/Renovation

### MEP Engineer

Consultants:

- SMBH
  - Structural Engineer
  - 462 Ludlow St, Columbus OH 43215
- MKSK
  - Landscape Architect
  - 300 Spruce St Suite 200, Columbus OH 43215
- evolvestudio.com
  - 401 Foster St, Durham NC 27701

### Lighting Design

- Zinkon Creative Studio
  - 1405 Dublin Rd, Columbus OH 43215

### General

- MEP
  - MEP Engineer
  - 1166 Dublin Rd Suite 200, Columbus OH 43215

### Contact Information

- Office: 919-495-6140
- Cell: 614-300-0311
- Fax: 614-300-2385
- Email: info@mepeers.com

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### Revision Schedule

- **9/29/2023**
  - 22160
  - 0300
  - 0311
  - 919
  - 614

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### Note

- All notes and symbols may not be applicable in all cases. Please coordinate with the specified in the project specifications. Any non-standard symbols shall be defined on a schedule.
1. PROVIDE 84" H x 20" W X 41" D 4-PH POST RACK WITH EIA STANDARD 19" RACK RAILS. 45 RACK UNITS OF MOUNTING SPACE.
2. 6" W X 12" D X 84" H VERTICAL WIRE MANAGER ON EACH SIDE OF RACK.
3. TELECOMMUNICATIONS MAIN GROUNDING BUSBAR.
4. 12" W LADDER RACK CABLE TRAY FOR TELECOMMUNICATIONS CABLING MOUNTED AT 10'-0" AFF.
5. EXISTING PLYWOOD BACKBOARD TO REMAIN.
6. EXISTING SERVICE ENTRANCE CONDUITS, CONDUITS PENETRATING THROUGH THE EXTERIOR WALL SHALL REMAIN. DISCONNECT AND REMOVE UNDERGROUND CONDUIT AT ELBOW FITTING BELOW GRADE BACK TO TECHNOLOGY SERVICE TAP LOCATION TO THE SOUTH OF THE BUILDING.
7. PROVIDE (2) 4" SCHEDULE 40 PVC TECHNOLOGY CONDUITS FOR NEW ROUTING OF UNDERGROUND TECHNOLOGY SERVICE CABLING. PROVIDE ELBOW CONNECTION TO THE EXISTING CONDUIT THROUGH EXTERIOR WALL. REFER TO ELECTRICAL SITE PLAN FOR TECHNOLOGY CONDUIT ROUTING.

GENERAL SHEET NOTES

1. EXISTING DEVICES AND CABLING SHALL REMAIN, UNLESS OTHERWISE NOTED.
2. EXTEND EXISTING CABLING FROM DEMOLISHED 2-PH POST RACK TO NEW 4-PH POST RACK.

SHEET KEYNOTES

1. PROVIDE 84" H x 20" W X 41" D 4-PH POST RACK WITH EIA STANDARD 19" RACK RAILS. 45 RACK UNITS OF MOUNTING SPACE.
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