UMF | SWEATT-WINTERT CHILD CARE & EARLY EDUCATION CENTER
04.07.2022 BID DOCUMENTS

OWNER:
University of Maine at Farmington

ARCHITECT:

CONSULTANTS:
MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION ENGINEERS
CHA Consulting
Colonie, NY

SECURITY DESIGN
CHA Consulting
Colonie, NY

LANDSCAPE ARCHITECT
Sashie Misner
Land and Play
Portland, ME

SPECIFICATIONS WRITER
Kalin Associates
Natick, MA

274 Front Street
Farmington, ME 04938

Project No.
057699
AT SOUTH EXIT, DEEPEN HAUNCH TO ENSURE MIN. 12" CONCRETE BELOW GRADE

COMPACTED SUBGRADE

SOIL

BUILDING GC LIMIT

EDGE

15' - 0"  

15' - 0"

FROM

SLOPED AWAY

ENTRY PAD

4' - 0"  

TYP.

6' - 0"

2' - 0"

TYP.

105

CLASSROOM

&

104

OBSERVATION

2' - 0"  

TYP.

106

T.

106.1

104.2

104.1

103A

103

116A.1 116

118A.1 118

120.1

BETWEEN CONCRETE PAD

ENTIRE LENGTH OF JOINT

PROVIDE EXPANSION

JOINT AND

BEYOND SLAB EDGE

CORRIDOR

ENTRY/WAITING

MULTIPURPOSE

ART

100.1 101.1

121

119.1

117.1

117A

116

SLOPED TO GRADE, BY SITE

OBSERVATION

BREAK

STAFF

109B

109C

IT

TYP.

TYP.

109C.1

CLOSET

LAUNDRY

6

109A

109A.1 109A.2

108

CLOSET

115A.1

115A.2

115B

115

114.1

112.1

118.1

120.1

BETWEEN CONCRETE PAD

ENTIRE LENGTH OF JOINT

PROVIDE EXPANSION

JOINT AND

BEYOND SLAB EDGE

CORRIDOR

ENTRY/WAITING

MULTIPURPOSE

ART

100.1 101.1

121

119.1

117.1

117A

116

SLOPED TO GRADE, BY SITE

OBSERVATION

BREAK

STAFF

109B

109C

IT

TYP.

TYP.

109C.1

CLOSET

LAUNDRY

6

109A

109A.1 109A.2

108

CLOSET

115A.1

115A.2

115B

115

114.1

112.1

118.1

120.1

BETWEEN CONCRETE PAD

ENTIRE LENGTH OF JOINT

PROVIDE EXPANSION

JOINT AND

BEYOND SLAB EDGE

CORRIDOR

ENTRY/WAITING

MULTIPURPOSE

ART

100.1 101.1

121

119.1

117.1

117A
ALL INDIVIDUAL ITEMS TO BE REMOVED. REMOVE ANY EXISTING TO OWNER.

NEW FINISHES.
THICKNESS AND FINISH PRIOR TO THE INSTALLATION OF UNDERLAYMENT OR REINFORCEMENT REQUIREMENTS. PATCH CONCRETE TO MATCH ADJACENT RETARDER AT SLABS ON GRADE. REFER TO STRUCTURAL DRAWINGS FOR MECHANICAL AND ELECTRICAL PLANS. CUT TRENCHES IN EXISTING CONCRETE.

HAZARDOUS MATERIAL SHALL BE LEGALLY ABATED, TRANSPORTED, AND THE CONTRACT DOCUMENTS, INCLUDING BUT NOT LIMITED TO ASBESTOS, PCB, PORTIONS OF THE BUILDING WITH THE OWNER.

REMOVALS.
CONSTRUCTION WHICH IS IN THE WAY OF NEW CONSTRUCTION OR PROHIBITS IN INFORMATION ONLY, AND ARE SCHEMATIC IN NATURE. THEY DO NOT IDENTIFY 1.

RELOCATE UTILITIES AFFECTED BY DEMOLITION AS REQUIRED TO 3/16" = 1'-0".

NOTE: CUT SLAB

NOTE: WHERE BUILDING COMPONENTS ARE SHOWN IN PLAN WITHOUT INDICATING REMOVEAL, BUILDING COMPONENT IS TO REMAIN.

DASH LINEWORK AND WITHOUT DEMOLITION KEYNOTES OR ANNOTATION.

REPAIR ANY DAMAGE TO WALLS.
ARE RESOLVED BY THE ARCHITECT.

1. ALL APPLIANCES PROVIDED BY OWNER, INSTALLED BY CONTRACTOR.

2. BRACKETS FOR FLAT PANEL DISPLAYS, SEE ELECTRICAL DRAWINGS.

3. THE START OF DEMOLITION & CONSTRUCTION, THESE FURNISHINGS ARE TO

4. NOTIFY THE ARCHITECT OF ANY DIMENSIONAL DISCREPANCIES PRIOR TO

5. DIMENSIONAL CONTROL:
   - TO VERIFY DIMENSIONS TO
   - THEN TO VERSUS FOUNDATIONS
   - THEN TO SCALE/DETAILS FOR DRAWING
   - THEN TO ALIGNMENT OF BUILDING
   - THEN TO ALIGN W/ EDGE OF
   - THEN TO CENTER LINE OF
   - THEN TO CENTER LINE OF
   - THEN TO CENTER LINE OF

6. DIMENSIONS INDICATED AS "CLEAR" SHALL BE MAINTAINED IN CASES OF

7. INFILL CONCRETE FLOOR SLAB TO MATCH EXISTING AT ANY REMOVALS FROM

8. UNLESS NOTED OTHERWISE, THE LOCATION OF DOOR FRAMES SHALL BE

9. DIMENSIONS ARE TO:

10. FROM THE ADJACENT WALL STUDS TO THE HINGE SIDE OF THE ROUGH OPENING.

11. PROVIDE WALL FINISH TO MATCH EXISTING IF NOT PRESENT @ REMOVED ACCESS FLOOR SYSTEM

12. PROVIDE WALL FINISH TO MATCH EXISTING IF NOT PRESENT @ REMOVED ACCESS FLOOR SYSTEM

13. PROVIDE WALL FINISH TO MATCH EXISTING IF NOT PRESENT @ REMOVED ACCESS FLOOR SYSTEM

...
ROOF GENERAL NOTES

1. PROTECT EXISTING MEMBRANE ROOF SYSTEM AND ALL OPENINGS CUT IN THE ROOF. PROVIDE TEMPORARY ROOFING IF WORK IS TO BE UNFINISHED DURING ADVERSE WEATHER CONDITIONS THROUGHOUT THE CONSTRUCTION PHASE.

2. PROVIDE FLASHING AT ALL ROOF PENETRATIONS. PENETRATIONS MAY NOT BE INDICATED ON THE ROOF PLAN. REFER TO STRUCTURAL, MECHANICAL AND ELECTRICAL PLANS FOR NUMBER, LOCATION, AND SIZE OF PENETRATIONS.

3. PROVIDE A 2 FEET WIDE WALKWAY WITH PROTECTION STRIPS ENTIRELY AROUND ALL ROOF TOP MECHANICAL UNITS AND CREATE A PROTECTION STRIP PATHWAY, 2 FEET WIDE, FROM THE ROOF ACCESS LOCATION(S) TO EACH MECHANICAL UNIT.

4. PROTECT ROOFING MATERIALS FROM CONSTRUCTION OPERATIONS.

5. PROVIDE CURBS AND PRESSURE TREATED WOOD BLOCKING AS REQUIRED FOR ALL ROOF MOUNTED EQUIPMENT, UNLESS NOTED OTHERWISE.

NEW RTU'S ON EXISTING CURBS

EXISTING BUTLER MR-24 ROOF SYSTEM TO REMAIN

NEW ROOF PENETRATION FOR KITCHEN EXHAUST HOOD. PROVIDE INSULATED CURB. SEE MECHANICAL.

EXISTING LADDER TO REMAIN

PROVIDE INSULATED ROOF CURB @ ABANDONED PENETRATION. SEE MECHANICAL.

SEAL ALL PIPE PENETRATIONS @ ABANDONED EQUIPMENT SUPPORTS. SEE MECHANICAL.

NEW ROOF PENETRATION FOR PLUMBING VENT, SEE PLUMBING.

INSTALL NEW GUTTER @ EXISTING ROOF, SEE EXTERIOR ELEVATION.
CONVEY TO INSTALLATIONS AND COORDINATE PRIOR TO INSTALLATION.

DRAWINGS TO VERIFY LOCATIONS DUCTWORK WILL PREVENT CONDUIT TO MATCH ADJACENT STRUCTURE. SEE DEMOLITION PLANS.

ASSUME PAINTING IS REQUIRED IN AREAS WHERE THE PRIOR TO THE INSTALLATION OF CEILINGS, ALLOW FOR AN

CEILING TYPES

C1 A 2x2 ACOUSTIC CEILING TILE, BLACK TILE + GRID

LIGHTING, HVAC, & AV GRAPHIC LEGEND

ARCHITECTURAL GRAPHIC LEGEND

CLASSROOM

S

8' - 0"

8' - 0"

4 1/2" / 12"

9' - 6"

10' - 0"

3' - 0"

7' - 0"

9' - 6"

10' - 0"

4 1/2" / 12"

9' - 6"

10' - 0"

3' - 0"

7' - 0"

9' - 6"

10' - 0"

3' - 0"

7' - 0"

9' - 6"

10' - 0"

3' - 0"

7' - 0"
EXISTING METAL SIDING AND WINDOWS TO REMAIN, TYP.

REPLACE GLAZING IN THIS EXISTING WINDOW

NEW METAL PANEL TO MATCH EXISTING AS REQ'D FOR NEW OPENING

EXISTING LADDER TO REMAIN

PROVIDE NEW GUTTER, DOWNSPOUTS & SPLASH BLOCKS

NEW DOORS IN EXISTING STOREFRONT FRAME

EXISTING WOOD SIDING, TRIM, AND WINDOWS TO REMAIN, TYP.

AT EXTERIOR LIGHT FIXTURE REMOVAL, STITCH IN NEW SIDING TO EXISTING SIDING BY STAGGERING JOINTS

BID ALT #2 CANOPY. IF ACCEPTED, LIGHT TO BE LOWERED
The page contains diagrams and mechanical piping symbols, indicating various components and systems. The symbols are used to represent different elements such as valves, pipes, and control devices. The diagrams are part of a set of mechanical drawings, possibly for a construction project.
1. REMOVE ROOFTOP UNIT AND ALL ASSOCIATED COMPONENTS INCLUDING DUCTWORK, INSULATION, AIR TERMINALS UNITS, REGISTERS, HANGERS, SUPPORTS, AND CONTROLS. EXISTING ROOF CURB BASE SHALL REMAIN AND TEMPORARILY CAPPED.

2. DISCONNECT AND REMOVE LPG PIPING BACK TO REGULATOR.

3. REMOVE EXHAUST FAN AND ALL ASSOCIATED, DUCTWORK, INSULATION, SUPPORTS, AIR REGISTERS, AND CONTROLS. EXISTING ROOF CURB BASE SHALL REMAIN AND TEMPORARILY CAPPED.

4. REMOVE OUTDOOR CONDENSING UNIT AND ASSOCIATED INDOOR UNIT INCLUDING ALL PIPING, INSULATION, SUPPORTS, INTERCONNECTING CONTROL WIRING, AND ACCESSORIES. EQUIPMENT SUPPORTS SHALL BE ABANDONED IN PLACE. SEAL ALL PIPE PENETRATIONS.

5. REMOVE EXHAUST FAN AND ALL ASSOCIATED DUCTWORK, INSULATION, AND CONTROLS. CAP EXISTING ROOF CURB WITH INSULATED ROOF CURB CAP.
1. Code Notes

- Provide insulated roof curb adapter for RTU and sized to fit existing opening.
- Reuse existing equipment rails for mounting of ACCU.
- Provide roof curb adapter to fit existing roof opening.
- Pressure test curb and pipe to 1-1/2" minimum seal size.
- Check for clearances (TYP.)
- Plumbing vent (see plumbing drawings, TYP.)
- Weather hood

Revision Schedule

<table>
<thead>
<tr>
<th>No.</th>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>JEREMY</td>
<td>LAZZARA</td>
<td>No. 17081</td>
</tr>
</tbody>
</table>
1. PROVIDE INSULATED PLENUM.
2. PROVIDE FACE OPERABLE OPPOSED BLADE DAMPER.
3. PROVIDE WITH UNIT-MOUNTED TOUCHSCREEN USER INTERFACE, RECESSED LED LIGHTS, ELECTRIC RANGE SHUTOFF WITH MANUAL PULL STATION AND
REMARKS:
1. PROVIDE MOUNTING BRACKETS, WIRED WALL-MOUNTED CONTROLLER, INTEGRAL CONDENSATE PUMP, AND DISCONNECT SWITCH. INDOOR UNIT POWERED BY OUTDOOR UNIT.
REMARKS:
1. PROVIDE ROOF CURB ADAPTER TO FIT EXISTING ROOF OPENING, VARI-GREEN ECM MOTOR, BIRDSCREEN, NEMA-3R DISCONNECT SWITCH, AND 24 V
1. PROVIDE WITH MANUFACTURER'S MOUNTING BRACKETS, INTEGRAL DISCONNECT SWITCH, AND WALL-MOUNTED THERMOSTAT. MOUNTING HEIGHT SHALL BE TO BOTTOM OF THE UNIT.

**SD-4 SUPPLY**
- 500 CFM
- 24"X24" 12"Ø LAY-IN
- 3-CONE
- 0.08 IN-WG
- 30 TITUS / TMSA-AA

**SD-3 SUPPLY**
- 350 CFM
- 24"X24" 10"Ø LAY-IN
- 3-CONE
- 0.08 IN-WG
- 30 TITUS / TMSA-AA

**SD-2 SUPPLY**
- 250 CFM
- 24"X24" 8"Ø LAY-IN
- 3-CONE
- 0.08 IN-WG
- 30 TITUS / TMSA-AA

**ED-2 EXHAUST**
- 350 CFM
- 24"X24" 10"X10" PERFORATED
- 0.08 IN-WG
- 30 TITUS / PAR-AA

**LS-1 SUPPLY**
- 100 CFM
- 48"X2-3/4" 6"Ø 1" SLOT
- 1 SLOT
- 0.08 IN-WG
- 30 TITUS / FTI-10

**RTU-3 ROOF HEATING/COOLING**
- VARIABLE AIR VOLUME
- 3055 MBH
- 1100 CFM
- 1.00 EER
- FC
- CENTRIFUGAL
- 1.80 IN-WG
- 674 ESP
- 3.0 VE
- 460 VE
- 3.0 MRT
- 151.7 LRT
- 109.6 HRT
- 250.0 MRT
- R410A
- 500 TOB
- 2.50 TOB
- 14.00 EAT
- 79.2 VE
- 66.1 VE
- 53.8 VE
- 53.5 VE
- 151.7 VE

**EUH-1 ELEC RM FREEZE**

**EUH-5 VESTIBULE**
- HEATING
- CEILING

**EF-1 ROOF EXHAUST**
- DIRECT-DRIVE CENTRIFUGAL
- 700 CFM
- 0.50 VE
- 0.14 EAT
- 1
- 725 ESP
- 0.17 VE
- 115 VE
- 1

**EF-3 ROOF KITCHEN HOOD EXHAUST**
- DIRECT-DRIVE UPBLAST CENTRIFUGAL
- 500 CFM
- 0.50 VE
- 0.09 EAT
- 1725 ESP
- 0.10 VE
- 115 VE
- 1

**ACCU-1 ROOF AC-1 COOLING ONLY**
- R410A
- 12000.0 MBH
- 208 V
- 1 HP
- 60 RPM
- 11 EAT
- 28 MRT
- MIT SUBISHI / PUY-A12NKA7(-BS)

**VAV-2B RTU-2 SINGLE DUCT**
- 6Ø 6
- 350 CFM
- 145 VE
- 0.50 EAT
- 30 VE
- 145 MRT
- 2.0 HRT
- 55.0 LRT
- 98.6 HRT
- 277 EAT
- 1
- 60 MRT
- 9.0 HRT
- 15 TITUS / DESV-ELEC

**VAV-2A RTU-2 SINGLE DUCT**
- 6Ø 6
- 425 CFM
- 150 VE
- 0.50 EAT
- 30 VE
- 150 MRT
- 2.0 HRT
- 55.0 LRT
- 97.1 HRT
- 277 EAT
- 1
- 60 MRT
- 9.0 HRT
- 15 TITUS / DESV-ELEC

**PIU-4 RTU-3 PARALLEL FAN POWERED**
- 12Ø 3
- 1205 ESP
- 563 ESP
- 0.50 EAT
- 30 VE
- 1126 MRT
- 12.0 HRT
- 61.3 LRT
- 94.9 HRT
- 480 MRT
- 23.2 HRT
- 25 TITUS / DTQP

**PIU-3 RTU-3 PARALLEL FAN POWERED**
- 16Ø 5
- 1850 ESP
- 671 ESP
- 0.50 EAT
- 30 VE
- 1343 MRT
- 14.0 HRT
- 61.2 LRT
- 94.2 HRT
- 480 MRT
- 29.7 HRT
- 30 TITUS / DTQP

**PIU-2 RTU-1 PARALLEL FAN POWERED**
- 14Ø 5
- 1750 ESP
- 706 ESP
- 0.50 EAT
- 30 VE
- 1411 MRT
- 14.0 HRT
- 61.2 LRT
- 92.6 HRT
- 480 MRT
- 29.7 HRT
- 30 TITUS / DTQP

**RTU-2 SINGLE DUCT**
- 6Ø 6
- 350 CFM
- 145 VE
- 0.50 EAT
- 30 VE
- 145 MRT
- 2.0 HRT
- 55.0 LRT
- 98.6 HRT
- 277 EAT
- 1
- 60 MRT
- 9.0 HRT
- 15 TITUS / DESV-ELEC

**RTU-3 PARALLEL FAN POWERED**
- 12Ø 3
- 1205 ESP
- 563 ESP
- 0.50 EAT
- 30 VE
- 1126 MRT
- 12.0 HRT
- 61.3 LRT
- 94.9 HRT
- 480 MRT
- 23.2 HRT
- 25 TITUS / DTQP

**RTU-4 PARALLEL FAN POWERED**
- 16Ø 5
- 1850 ESP
- 671 ESP
- 0.50 EAT
- 30 VE
- 1343 MRT
- 14.0 HRT
- 61.2 LRT
- 94.2 HRT
- 480 MRT
- 29.7 HRT
- 30 TITUS / DTQP
DEMO CODED NOTES

1. REMOVE EXISTING PLUMBING FIXTURE AND ASSOCIATED VALVES, FAUCETS, FITTINGS, AND ACCESSORIES. REMOVE DRAINAGE AND VENT PIPING IN ITS ENTIRETY.

2. REMOVE ALL CW/HW PIPING, INSULATION, VALVES, SUPPORTS AND ACCESSORIES ABOVE CEILING AND WITHIN WALL CHASES SERVING EXISTING PLUMBING FIXTURES REMOVED UNDER THIS CONTRACT.

3. REMOVE EXISTING FLOOR DRAIN AND ASSOCIATED UNDERSLAB DRAINAGE PIPING.

4. REMOVE UNDERSLAB SANITARY PIPING MAIN AND FITTINGS TO POINT OF DISCONNECTION INDICATED.

5. REMOVE EXISTING DOMESTIC WATER PIPING, FITTINGS, HANGERS, SUPPORTS AND INSULATION BACK TO POINT OF DISCONNECTION.

6. ISOLATE BUILDING'S WATER SUPPLY AT SHUTOFF VALVE AND REMOVE EXISTING BACKFLOW PREVENTER. DRAIN SYSTEM AS REQUIRED FOR REMOVAL WORK, AND PREPARE FOR DISCONNECTION.

7. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF EXISTING SANITARY EXIT AND INVERT ELEVATION AS REQUIRED FOR THE RECONNECTION OF THE SANITARY DRAINAGE PROVIDED UNDER THE SCOPE OF THIS CONTRACT.

8. DISCONNECT AND REMOVE CW PIPING ASSOCIATED WITH EXISTING HOSE BIBB AND PREPARE FOR RECONNECTION.

9. CUT AND CAP DRAINAGE PIPING ASSOCIATED WITH REMOVED DRINKING FOUNTAIN AND ABANDON PIPE IN WALL.

Revision Schedule

<table>
<thead>
<tr>
<th>No.</th>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>JEREMY LAZZARA</td>
<td>No. 17081</td>
<td>ENAMFOETATS</td>
</tr>
</tbody>
</table>

SHEET TITLE
ISSUE
SCALE:
JOB NO.
DRWN.

49 DARTMOUTH STREET
PORTLAND, MAINE
04101
207-775-1059
www.chaarchitecture.com
**PLUMBING FIXTURE**

<table>
<thead>
<tr>
<th>Description</th>
<th>Type</th>
<th>Model</th>
<th>Location</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>WC-1 Floor-Mounted Water Closet</td>
<td>Sloan</td>
<td>ST-2029</td>
<td>3&quot; 2&quot; 1&quot; 0&quot;</td>
<td>1</td>
</tr>
<tr>
<td>WC-2 Floor-Mounted Juvenile Water Closet</td>
<td>Sloan</td>
<td>ST-230</td>
<td>9 3&quot; 2&quot; 1&quot;</td>
<td>1</td>
</tr>
<tr>
<td>SK-1 Single Bowl Drop-In Sink</td>
<td>Elkay</td>
<td>LR3122</td>
<td>2&quot; 1 1/2&quot; 1/2&quot;</td>
<td>1</td>
</tr>
<tr>
<td>SK-2 Single Bowl Drop-In Sink</td>
<td>Elkay</td>
<td>LR1919</td>
<td>2&quot; 1 1/4&quot; 1/2&quot;</td>
<td>1</td>
</tr>
<tr>
<td>SK-3 Three Compartment Sink with Drainboards</td>
<td>Elkay</td>
<td>3C 12X16-2-16X 3</td>
<td>1 1/2&quot; 1 1/2&quot; 1/2&quot;</td>
<td>1</td>
</tr>
<tr>
<td>MS-1 Mop Sink</td>
<td>Fiat</td>
<td>SB2424</td>
<td>3&quot; 2&quot; 1/2&quot; 1/2&quot;</td>
<td>1</td>
</tr>
<tr>
<td>LAV-1 Wall-Mounted Lavatory</td>
<td>Kohler</td>
<td>K-2035</td>
<td>1 1/2&quot; 1 1/4&quot; 1/2&quot;</td>
<td>1</td>
</tr>
<tr>
<td>FD-1 Floor Drain</td>
<td>Watts</td>
<td>FD-200A</td>
<td>0&quot; 0&quot; 0&quot;</td>
<td>1</td>
</tr>
<tr>
<td>EWC-1 Electric Water Cooler</td>
<td>Elkay</td>
<td>EZSTL8WSLK</td>
<td>1 1/2&quot; 1 1/2&quot; 1/2&quot; 0&quot;</td>
<td>1</td>
</tr>
<tr>
<td>DPCO Deck Plate Cleanout</td>
<td>Watts</td>
<td>LF909M1-QT-S</td>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

**ELECTRICAL WATER HEATER**

<table>
<thead>
<tr>
<th>Description</th>
<th>Type</th>
<th>Model</th>
<th>Location</th>
<th>Capacity</th>
<th>Pressure Drop (Psi)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical Water Heater</td>
<td>A.O. Smith</td>
<td>DRE-80</td>
<td></td>
<td>460 3 36</td>
<td></td>
</tr>
</tbody>
</table>

**CIRCULATING PUMP**

<table>
<thead>
<tr>
<th>Description</th>
<th>Type</th>
<th>Model</th>
<th>Location</th>
<th>Capacity</th>
<th>Pressure Drop (Psi)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Circulating Pump</td>
<td>Taco</td>
<td>006-F4</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**EXPANSION TANK**

<table>
<thead>
<tr>
<th>Description</th>
<th>Type</th>
<th>Model</th>
<th>Location</th>
<th>Capacity (Gallons)</th>
<th>Height (In)</th>
<th>Width (In)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Expansion Tank</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**BACKFLOW PREVENTER**

<table>
<thead>
<tr>
<th>Description</th>
<th>Type</th>
<th>Model</th>
<th>Location</th>
<th>Capacity (Gallons)</th>
<th>Pressure Drop (Psi)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Backflow Preventer</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**THERMOSTATIC MIXING VALVE**

<table>
<thead>
<tr>
<th>Description</th>
<th>Type</th>
<th>Model</th>
<th>Location</th>
<th>Capacity (Gallons)</th>
<th>Pressure Drop (Psi)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermostatic Mixing Valve</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**WASTE INTERCEPTOR**

<table>
<thead>
<tr>
<th>Description</th>
<th>Type</th>
<th>Model</th>
<th>Location</th>
<th>Capacity (Gallons)</th>
<th>Height (In)</th>
<th>Width (In)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waste Interceptor</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**WATER METER**

<table>
<thead>
<tr>
<th>Description</th>
<th>Type</th>
<th>Model</th>
<th>Location</th>
<th>Capacity (Gallons)</th>
<th>Pressure Drop (Psi)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Meter</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**WATER HAMMER ARRESTOR**

<table>
<thead>
<tr>
<th>Description</th>
<th>Type</th>
<th>Model</th>
<th>Location</th>
<th>Capacity (Gallons)</th>
<th>Pressure Drop (Psi)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Hammer Arrestor</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

1. **THERMOSTATIC MIXING VALVE** - TMV-1
2. **WATER HEATER DETAIL** - EWH-1
### LIGHTING FIXTURE SCHEDULE

<table>
<thead>
<tr>
<th>No.</th>
<th>DESCRIPTION</th>
<th>DESCRIPTION TYPE</th>
<th>CP NM</th>
<th>CCT</th>
<th>ANY NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>EXIT FIXTURE</td>
<td>CEILING MOUNTED</td>
<td>120/277</td>
<td>3200K</td>
<td>5.3W ALW: FBSMB-S*-LOW-80-3000K-0/10V/S-EXT/R-SW-UNV</td>
</tr>
<tr>
<td>2.</td>
<td>EXIT FIXTURE</td>
<td>CEILING MOUNTED</td>
<td>120/277</td>
<td>3200K</td>
<td>5.3W ALW: FBSMB-S*-LOW-80-3000K-0/10V/S-EXT/R-SW-UNV</td>
</tr>
<tr>
<td>3.</td>
<td>EXIT FIXTURE</td>
<td>CEILING MOUNTED</td>
<td>120/277</td>
<td>3200K</td>
<td>5.3W ALW: FBSMB-S*-LOW-80-3000K-0/10V/S-EXT/R-SW-UNV</td>
</tr>
<tr>
<td>4.</td>
<td>EXIT FIXTURE</td>
<td>CEILING MOUNTED</td>
<td>120/277</td>
<td>3200K</td>
<td>5.3W ALW: FBSMB-S*-LOW-80-3000K-0/10V/S-EXT/R-SW-UNV</td>
</tr>
<tr>
<td>5.</td>
<td>EXIT FIXTURE</td>
<td>CEILING MOUNTED</td>
<td>120/277</td>
<td>3200K</td>
<td>5.3W ALW: FBSMB-S*-LOW-80-3000K-0/10V/S-EXT/R-SW-UNV</td>
</tr>
</tbody>
</table>

### LIGHTING TRACK SYSTEM

- LIGHTING FIXTURE TYPE: REFER TO LIGHTING FIXTURE SCHEDULE
- CENTERLINE
- LONG / LENGTH
- AMERICAN WIRE GAUGE
- ALTERNATING CURRENT
- PANEL
- NUMBER
- ELECTRIC WATER HEATER
- DIAMETER
- HAND
- AUXILIARY
- ELECTRIC WATER COOLER
- EQUIPMENT
- WYE (THREE PHASE CONFIGURATION)
- FUSE / FUSED
- GROUND FAULT CIRCUIT INTERRUPTER
- LIGHTING SWITCH
- FIRE ALARM CONTROL PANEL
- NIGHT LIGHT
- ELECTRIC / ELECTRICAL
- ROOT MEAN SQUARE
- CONDUIT
- CABINET
- HORSEPOWER FACTOR
- EACH
- HEIGHT
- INTERMEDIATE DISTRIBUTION FRAME
- TEMPORARY / TEMPERATURE
- OVER COUNTER
- MAXIMUM
- MAIN DISTRIBUTION FRAME
- ELEVATOR
- JUNCTION
- RECESSED, SURFACE, OR SUSPENDED MOUNTED AS SCHEDULED
- CIRCUIT NUMBER
- DUCT DETECTOR IN SUPPLY DUCT
- NUMBER INDICATES CANDELA RATING
- PULL/HORN COMBO
- SPRINKLERS SYSTEM FLOW SWITCH
- INDICATES CONDUIT PROVISIONS FOR FUTURE CARD
- WIRELESS ACCESS POINT, PROVIDE WITH 1" CONDUIT WITH PULL
- PROVIDE BACKBOX, MOUNTED 18" AFF
- INDICATES CAMERA DESIGNATION NUMBER
- INTERCOM MASTER STATION
- DOOR OPERATOR
- ALL WORK SHOWN ON THE ELECTRICAL DRAWINGS SHALL BE BY THE ELECTRICAL
- COORDINATE WORK WITH ALL TRADES. MECHANICAL EQUIPMENT INDICATED ON 'M', 'P', AND
- INSTALLATION AND PROGRAMMING OF VIDEO SURVEILLANCE SYSTEM HEAD END, INTERCOM
- PROVIDE ANY AND ALL EQUIPMENT LIFTS TO ACCOMPLISH TASKS. CONTRACTOR SHALL
- CONTRACTOR SHALL TURN OVER ALL REMOVED DEVICES TO OWNER.
- CONDUCT A COORDINATION MEETING WITH OWNER TO FINALIZE EACH DEVICE LOCATION
- ALL CONDUIT SHALL BE 3/4" MINIMUM UNLESS OTHERWISE NOTED.
- TEST AND CERTIFY ALL WIRES ARE FREE OF SHORTS, OPENS, AND GROUNDS.

---

**Revision Schedule**

- 001
- 207
- 775
- 274 Front Street

---

**Legend**

- DARTMOUTH STREET
- CHA
- UMF SWEAT/WINTER CHILD CARE & EARLY
- EDUCATION CENTER

---

**Drawing Information**

- 49 DARTMOUTH STREET
- 274 Front Street
- Farmington, ME 04938

---

**Declarations**

- All work shown on electrical drawings shall be by the electrical.
- Coordinate work with all trades. Mechanical equipment indicated on 'M', 'P', and.
- Installation and programming of video surveillance system head end, intercom.
- Provide any and all equipment lifts to accomplish tasks.
- Contractor shall turn over all removed devices to owner.
- Conduct a coordination meeting with owner to finalize each device location.
- All conduit shall be 3/4" minimum unless otherwise noted.
- Test and certify all wires are free of shorts, opens, and grounds.

---

**Notes**

- Electrical coordination and work by electrical.
- Mechanical equipment indicated on 'M', 'P', and.
- Installation and programming of video surveillance system head end, intercom.
- Provide any and all equipment lifts to accomplish tasks.
- Contractor shall turn over all removed devices to owner.
- Conduct a coordination meeting with owner to finalize each device location.
- All conduit shall be 3/4" minimum unless otherwise noted.
- Test and certify all wires are free of shorts, opens, and grounds.
1. DISCONNECT AND REMOVE ALL ELECTRICAL EQUIPMENT AND DEVICES INDICATED. REMOVE ALL ASSOCIATED CONDUIT, WIRING, CABLING, PULL AND JUNCTION BOXES, BACK TO SOURCE UN. CODED NOTES:

2. DISCONNECT, REMOVE AND RETAIN ON SITE FLUSH WALL MOUNTED PANELBOARD L2. REFER TO DRAWING E-101 FOR NEW LOCATION.

3. REMOVE ALL WIRING DEVICES FROM FLUSH FLOOR MOUNTED FLOOR BOX. FILL BOX WITH CONCRETE FLUSH TO SURROUNDING FLOOR.
1 FIRST FLOOR LIGHTING REMOVALS PLAN

GENERAL NOTES:
1. DISCONNECT AND REMOVE ALL ELECTRICAL EQUIPMENT AND DEVICES INDICATED. REMOVE ALL ASSOCIATED CONDUIT, WIRING, CABLING, PULL AND JUNCTION BOXES, BACK TO SOURCE UON.
NOTES:

* - EXISTING LOAD TO REMAIN
** - REMOVE AND REPLACE 2P- BRANCH BREAKER WITH (2) 1P-20A BREAKERS.
*** - REMOVE 1P-20A BRANCH BREAKERS AND REPLACE WITH (1) 2P-15A BREAKER
CONDUIT PENETRATIONS:

- Core drill hole
- Grout all voids around sleeve
- Firestop with Dow Corning or equivalent
- Waterproof as needed

ANCHOR PIPE AS REQUIRED TO PREVENT MOVEMENT THRU PENETRATION.

1/2" TYP. CONDUIT STRAP

PIPE (SIZE VARIES)

1/2" TYP. CONCRETE PIPE SLEEVE

FLOOR

CORE DRILL HOLE

GROUT ALL VOIDS

AROUND SLEEVE

FIRESTOP WITH DOW CORNING OR EQUIVALENT

WATERPROOF AS NEEDED

CONDUIT

4' - 5' SPACING

BUNDLED CABLE WITH VELCRO STRAPS

12" MAX. CABLE SAG

THREADED ROD SUPPORT (TYP.)

LOCKING NUT

HOLD DOWN CLAMP, BOLT AND NUT

SLOTTED U CHANNEL STRUT

LONGITUDINAL WELDED SAFETY EDGE

LOCKING NUT

3/8" GALVANIZED THREADED ROD

6" LONG SLEEVE TO PREVENT DAMAGE TO CABLES

WASHER

12" X 3.5" IT WIRE TRAY SHEET
CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY CERTIFICATIONS REQUIRED BY THE CODE ENFORCEMENT OFFICIAL INCLUDING BUT NOT LIMITED TO:

1. ALL SYSTEMS SHALL BE HYDRAULICALLY CALCULATED AND COMPLY WITH NFPA 13 (2016). THE DESIGN CALCULATIONS SHALL BE BASED ON AN AVERAGE WATER SUPPLY OF 10 PSI LESS STATIC PRESSURE, 10 PSI LESS RESIDUAL PRESSURE AND 10% LESS RESIDUAL FLOW THAN MEASURED.

2. HYDRAULIC PLACEMENTS AND ARRANGEMENTS SHALL BE VALVES, HYDRAULIC DESIGN INFORMATION SIGN, GENERAL INFORMATION SIGN, AND SIGNS INDICATING THE FUNCTION OF TEST VALVES, CONTROL VALVES WITH VITREOUS ENAMEL FINISH, LETTERING ON CONTRASTING BACKGROUND. CONTRACTOR SHALL PROVIDE SIGNS INCLUDING BUT NOT LIMITED TO:

3. PROVIDE HYDRAULIC PLOT PLAN WHICH SHOWS PIPING TO WATER DATA SOURCE. PROVIDE PIPE SIZE AND LENGTH DIMENSIONS ON PLOT PLAN.

4. SECTION 23.3.5.6 "DETAILED WORKSHEETS" AND RELATED APPENDICES.

5. WITHIN AND EXTERIOR WALLS, FLOORS, MECHANICAL, ETC. FOR BIDDING AND COORDINATION OF FIRE PROTECTION SYSTEM INSTALLATION.

6. CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR SYSTEM INSTALLATION.

7. THE CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR SYSTEM INSTALLATION.

8. ADDITIONAL PIPE SIZES SHALL BE DETERMINED BY THE SPRINKLER CONTRACTOR'S HYDRAULIC CALCULATIONS AND DESIGN. THE SPRINKLER SHOP DRAWINGS ARE REQUIRED TO BE DEVELOPED BY THE CONTRACTOR PRIOR TO THE INSTALLATION OF WORK.

9. CONTRACTOR SHALL REQUEST A COMPLETE BID SET, INCLUDING BUT NOT LIMITED TO, ARCHITECTURAL, STRUCTURAL, ELECTRICAL, PLUMBING, AND SYMBOLS FOR A COMPLETE SYSTEM.

10. MATERIALS CERTIFICATE FOR ABOVE GROUND PIPING UPON COMPLETION OF WORK.

11. TESTING PROCEDURE:

12. GENERAL FIRE PROTECTION NOTES:

13. CONTRACTOR SHALL COORDINATE FIRE DEPARTMENT CONNECTION THREAD TYPE AND SIZE WITH LOCAL FIRE DEPARTMENT.

14. CONTRACTOR SHALL COORDINATE STAGING AND WORK AREAS WITH OWNER.

15. CONTRACTOR SHALL COORDINATE CONNECTION, TESTING AND DISINFECTING OF UNDERGROUND SUPPLY WITH SITE CONTRACTOR. SERVICE SHALL BE PROVIDED ARMOVERS FOR ALL PENDENT HEADS.

16. CONTRACTOR WILL BE REQUIRED TO PROVIDE ALL LABOR AND MATERIALS NECESSARY FOR COMPLETE AND CODE COMPLIANT SYSTEMS.

17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY CERTIFICATIONS REQUIRED BY THE CODE ENFORCEMENT OFFICIAL INCLUDING BUT NOT LIMITED TO:

18. CONTRACTOR SHALL PITCH ALL PIPING BACK TO SUPPLY MAIN WHERE POSSIBLE. PROVIDE AUXILIARY DRAINS ON TRAPPED SECTIONS OF PIPE PE.

19. PROVIDE CONSTRUCTION SPECIAL INSTRUCTIONS IN THE CONSTRUCTION SPECIAL INSTRUCTIONS OF FIRE PROTECTION SYSTEM INSTALLATION.

20. CONTRACTOR SHALL COORDINATE FIRE PROTECTION SYSTEM INSTALLATION OF SPRINKLERS AND ALARMS.

21. CONTRACTOR SHALL COORDINATE FIRE PROTECTION SYSTEM INSTALLATION OF SPRINKLERS AND ALARMS.

22. CONTRACTOR SHALL OBTAIN APPROVAL OF THE SYSTEM FROM THE ENGINEER OF RECORD AND MAINE PERMITTING AUTHORITY. ANY ACTUAL PIPE SIZES SHALL BE DETERMINED BY THE SPRINKLER CONTRACTOR'S HYDRAULIC CALCULATIONS AND DESIGN.

23. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DO NOT SHOW EVERY SPRINKLER HEAD, PIPE, FITTING, VALVE ETC., NECESSARY FOR A COMPLETE SYSTEM.

24. THE DESIGN DOCUMENTS (DRAWINGS AND SPECIFICATIONS) FOR THE SPRINKLER SYSTEMS TO BE PROVIDED BY THE CONTRACT IDENTIFY PERFORMING drawing. CHK. 

25. CONTRACTOR SHALL COORDINATE THE LOCATION OF UNDERGROUND AND SUPPLY VALVES TO CONTRACTOR. SERVICE WIRES WITH WATER PROTECTION SYSTEMS.

26. CONTRACTOR SHALL COORDINATE THE LOCATION OF UNDERGROUND AND SUPPLY VALVES TO CONTRACTOR. SERVICE WIRES WITH WATER PROTECTION SYSTEMS.

27. CONTRACTOR SHALL COORDINATE THE LOCATION OF UNDERGROUND AND SUPPLY VALVES TO CONTRACTOR. SERVICE WIRES WITH WATER PROTECTION SYSTEMS.

28. CONTRACTOR SHALL CODE COMPLIANCE FOR THE SYSTEM.

29. CONTRACTOR SHALL CODE COMPLIANCE FOR THE SYSTEM.

30. CONTRACTOR SHALL CODE COMPLIANCE FOR THE SYSTEM.

31. CONTRACTOR SHALL CODE COMPLIANCE FOR THE SYSTEM.

32. CONTRACTOR SHALL CODE COMPLIANCE FOR THE SYSTEM.

33. CONTRACTOR SHALL CODE COMPLIANCE FOR THE SYSTEM.

34. CONTRACTOR SHALL CODE COMPLIANCE FOR THE SYSTEM.

35. CONTRACTOR SHALL CODE COMPLIANCE FOR THE SYSTEM.

36. CONTRACTOR SHALL CODE COMPLIANCE FOR THE SYSTEM.

37. CONTRACTOR SHALL CODE COMPLIANCE FOR THE SYSTEM.

38. CONTRACTOR SHALL CODE COMPLIANCE FOR THE SYSTEM.

39. CONTRACTOR SHALL CODE COMPLIANCE FOR THE SYSTEM.

40. CONTRACTOR SHALL CODE COMPLIANCE FOR THE SYSTEM.

41. CONTRACTOR SHALL CODE COMPLIANCE FOR THE SYSTEM.

42. CONTRACTOR SHALL CODE COMPLIANCE FOR THE SYSTEM.

43. CONTRACTOR SHALL CODE COMPLIANCE FOR THE SYSTEM.

44. CONTRACTOR SHALL CODE COMPLIANCE FOR THE SYSTEM.

45. CONTRACTOR SHALL CODE COMPLIANCE FOR THE SYSTEM.

46. CONTRACTOR SHALL CODE COMPLIANCE FOR THE SYSTEM.

47. CONTRACTOR SHALL CODE COMPLIANCE FOR THE SYSTEM.

48. CONTRACTOR SHALL CODE COMPLIANCE FOR THE SYSTEM.

49. CONTRACTOR SHALL CODE COMPLIANCE FOR THE SYSTEM.

50. CONTRACTOR SHALL CODE COMPLIANCE FOR THE SYSTEM.

51. CONTRACTOR SHALL CODE COMPLIANCE FOR THE SYSTEM.

52. CONTRACTOR SHALL CODE COMPLIANCE FOR THE SYSTEM.

53. CONTRACTOR SHALL CODE COMPLIANCE FOR THE SYSTEM.

54. CONTRACTOR SHALL CODE COMPLIANCE FOR THE SYSTEM.

55. CONTRACTOR SHALL CODE COMPLIANCE FOR THE SYSTEM.

56. CONTRACTOR SHALL CODE COMPLIANCE FOR THE SYSTEM.

57. CONTRACTOR SHALL CODE COMPLIANCE FOR THE SYSTEM.

58. CONTRACTOR SHALL CODE COMPLIANCE FOR THE SYSTEM.

59. CONTRACTOR SHALL CODE COMPLIANCE FOR THE SYSTEM.

60. CONTRACTOR SHALL CODE COMPLIANCE FOR THE SYSTEM.

61. CONTRACTOR SHALL CODE COMPLIANCE FOR THE SYSTEM.

62. CONTRACTOR SHALL CODE COMPLIANCE FOR THE SYSTEM.

63. CONTRACTOR SHALL CODE COMPLIANCE FOR THE SYSTEM.

64. CONTRACTOR SHALL CODE COMPLIANCE FOR THE SYSTEM.

65. CONTRACTOR SHALL CODE COMPLIANCE FOR THE SYSTEM.
FIRE PROTECTION REMOVAL PLAN

NOTE: REMOVE ALL PENDANT SPRINKLERS AND PIPING TO THE SPRINKLER BRANCH AND FIRE CAPS/PLATES.
TYPICAL BRANCHLINE. SIZE MAY VARY

1" x 1/2"

REDUCER

RECESSED PENDENT SPRINKLER

ESCUTCHEON

CUT CEILING TO ACCOMMODATE ESCUTCHEON

LAY IN ACOUSTICAL TILE SUSPENDED CEILING

T-Bar CEILING SUPPORTS RECESSED PENDENT SPRINKLER

SEE FLOOR PLAN FOR LOCATION

1" PIPING