City of Des Moines

PLANS OF PROPOSED IMPROVEMENT FOR THE

CHESTERFIELD WATER PLAYGROUND
AND IMPROVEMENTS

11-2019-014

THE URBAN STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS, PLUS CURRENT SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS SHALL APPLY TO CONSTRUCTION WORK ON THIS PROJECT.

SOILS As Needed

INDEX OF SHEETS

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Title Sheets</td>
</tr>
<tr>
<td>A.01</td>
<td>General Notes &amp; References, General Plan</td>
</tr>
<tr>
<td>A.02</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>Typical Sections and Design Details</td>
</tr>
<tr>
<td>B.01</td>
<td>Typical Sections &amp; Design Details</td>
</tr>
<tr>
<td>B.04</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>Estimated Quantities, Tabulations, and General Notes</td>
</tr>
<tr>
<td>C.01</td>
<td>Estimated Quantities &amp; Estimate Reference Notes</td>
</tr>
<tr>
<td>C.03</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>Construction Details</td>
</tr>
<tr>
<td>D.01</td>
<td></td>
</tr>
<tr>
<td>D.09</td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>Erosion &amp; Sediment Control</td>
</tr>
<tr>
<td>E.01</td>
<td></td>
</tr>
<tr>
<td>J</td>
<td>Traffic Control</td>
</tr>
<tr>
<td>J.01</td>
<td></td>
</tr>
<tr>
<td>K</td>
<td>Geometrics</td>
</tr>
<tr>
<td>K.01</td>
<td></td>
</tr>
<tr>
<td>K.05</td>
<td>Geometrics</td>
</tr>
<tr>
<td>L</td>
<td>Jointing</td>
</tr>
<tr>
<td>L.01</td>
<td></td>
</tr>
<tr>
<td>L.04</td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>Storm</td>
</tr>
<tr>
<td>M.01</td>
<td>Storm Sewer Plan &amp; Profile</td>
</tr>
<tr>
<td>M.06</td>
<td></td>
</tr>
<tr>
<td>MWM</td>
<td>Water Main</td>
</tr>
<tr>
<td>MWM.01</td>
<td>Water Main</td>
</tr>
<tr>
<td>N</td>
<td>Grading</td>
</tr>
<tr>
<td>N.01</td>
<td></td>
</tr>
<tr>
<td>P</td>
<td>Electrical Layout</td>
</tr>
<tr>
<td>P.01</td>
<td></td>
</tr>
<tr>
<td>R</td>
<td>Removals</td>
</tr>
<tr>
<td>R.01</td>
<td></td>
</tr>
<tr>
<td>V</td>
<td>Restroom Plan</td>
</tr>
<tr>
<td>V.01</td>
<td></td>
</tr>
<tr>
<td>V.09</td>
<td></td>
</tr>
</tbody>
</table>
Contractor shall remove all available vegetation prior to the commencement of construction. All trees and shrubs shall be dug out of the ground to the depth of 12 inches. Where possible, existing trees shall be left intact and shall be protected during construction. Any damage to existing trees caused by the contractor shall be repaired at the contractor's expense. Contractor shall exercise extreme care when working around existing trees to prevent damage.

Utility Contacts:

- Mid American Energy
  - Carla Schumacher
  - 515-867-1651

- Des Moines Water Works
  - Paul May
  - 515-446-7020

- City of Des Moines
  - Jimmie Bennett
  - 515-283-4920

- SUDAS Program
  - Scott Almeida, P.E.
  - 515-270-0848

Contact: Scott Almeida, P.E.

The contractor shall coordinate with the utility companies to ensure that the work does not interfere with the operation of existing utilities. The contractor shall be responsible for any damage caused to existing utilities, and shall repair any damage at their own expense. Contractor shall allow for the removal and replacement of utilities as required by the City of Des Moines. Contractor shall be responsible for the coordination of utility work and shall obtain all necessary permits and approvals prior to the commencement of any work. The contractor shall be responsible for the removal and replacement of any damaged utilities.

In order to avoid any unnecessary surface breaks or premature spalling, the contractor shall exercise extreme care when working in areas where utilities are present. The contractor shall be responsible for any damage caused to existing utilities, and shall repair any damage at their own expense. Contractor shall exercise extreme care when working in areas where utilities are present to prevent any damage to existing utilities.

Contractor shall provide written notification to the City of Des Moines before any underground utility work is to be performed. The contractor shall be responsible for the coordination of utility work and shall obtain all necessary permits and approvals prior to the commencement of any work. The contractor shall be responsible for the removal and replacement of any damaged utilities.

Contractor shall exercise extreme care when working in areas where underground utility work is present to prevent any damage to existing utilities. The contractor shall be responsible for any damage caused to existing utilities, and shall repair any damage at their own expense. Contractor shall exercise extreme care when working in areas where underground utility work is present to prevent any damage to existing utilities.
Sprayground - Typical Section

Concrete Retaining Wall at Dam - Typical Section

5" PCC Sidewalk - Typical Section

Shared Use Path - Typical Section

6" Subgrade Preparation

Concrete Retaining Wall

5" reinforced PCC pavement, light brown fine, perpendicular to path of travel
reinforced with #4 bars @ 24" o.c. each way

6" Subgrade Preparation

5" PCC Sidewalk

5" reinforced PCC pavement, light brown fine, perpendicular to path of travel
reinforced with #4 bars @ 24" o.c. each way

4" Compacted Subgrade (Subsidary)

4" PCC Shared Use Path

No. 4 bars @ 24" o.c. each way

1" Chamfer

All reinforcing steel shall be placed as shown with 2" clearance.

3/4"x11/2" Beveled Key Way

No. 4 bars @ 32" centers

3" Reinforced PCC

1'-5" Concrete Retaining Wall - Typical Section

5" PCC Sidewalk - Typical Section

Concrete Retaining Wall at Dam - Typical Section

6" Subgrade Preparation

Concrete Retaining Wall

5" reinforced PCC pavement, light brown fine, perpendicular to path of travel
reinforced with #4 bars @ 24" o.c. each way

6" Subgrade Preparation

Concrete Retaining Wall

5" reinforced PCC pavement, light brown fine, perpendicular to path of travel
reinforced with #4 bars @ 24" o.c. each way

5" PCC Sidewalk

5" reinforced PCC pavement, light brown fine, perpendicular to path of travel
reinforced with #4 bars @ 24" o.c. each way

Concrete Retaining Wall

5" PCC Sidewalk

Concrete Retaining Wall at Dam - Typical Section

6" Subgrade Preparation

Concrete Retaining Wall

5" reinforced PCC pavement, light brown fine, perpendicular to path of travel
reinforced with #4 bars @ 24" o.c. each way

6" Subgrade Preparation

Concrete Retaining Wall

5" PCC Sidewalk

Concrete Retaining Wall at Dam - Typical Section

6" Subgrade Preparation

Concrete Retaining Wall

5" reinforced PCC pavement, light brown fine, perpendicular to path of travel
reinforced with #4 bars @ 24" o.c. each way

6" Subgrade Preparation

Concrete Retaining Wall

5" PCC Sidewalk

Concrete Retaining Wall at Dam - Typical Section

6" Subgrade Preparation

Concrete Retaining Wall

5" reinforced PCC pavement, light brown fine, perpendicular to path of travel
reinforced with #4 bars @ 24" o.c. each way

6" Subgrade Preparation

Concrete Retaining Wall

5" PCC Sidewalk

Concrete Retaining Wall at Dam - Typical Section

6" Subgrade Preparation

Concrete Retaining Wall

5" reinforced PCC pavement, light brown fine, perpendicular to path of travel
reinforced with #4 bars @ 24" o.c. each way

6" Subgrade Preparation

Concrete Retaining Wall

5" PCC Sidewalk

Concrete Retaining Wall at Dam - Typical Section

6" Subgrade Preparation

Concrete Retaining Wall

5" reinforced PCC pavement, light brown fine, perpendicular to path of travel
reinforced with #4 bars @ 24" o.c. each way

6" Subgrade Preparation

Concrete Retaining Wall

5" PCC Sidewalk

Concrete Retaining Wall at Dam - Typical Section

6" Subgrade Preparation

Concrete Retaining Wall

5" reinforced PCC pavement, light brown fine, perpendicular to path of travel
reinforced with #4 bars @ 24" o.c. each way

6" Subgrade Preparation

Concrete Retaining Wall

5" PCC Sidewalk

Concrete Retaining Wall at Dam - Typical Section

6" Subgrade Preparation

Concrete Retaining Wall

5" reinforced PCC pavement, light brown fine, perpendicular to path of travel
reinforced with #4 bars @ 24" o.c. each way

6" Subgrade Preparation

Concrete Retaining Wall

5" PCC Sidewalk

Concrete Retaining Wall at Dam - Typical Section

6" Subgrade Preparation

Concrete Retaining Wall

5" reinforced PCC pavement, light brown fine, perpendicular to path of travel
reinforced with #4 bars @ 24" o.c. each way

6" Subgrade Preparation

Concrete Retaining Wall

5" PCC Sidewalk

Concrete Retaining Wall at Dam - Typical Section

6" Subgrade Preparation

Concrete Retaining Wall

5" reinforced PCC pavement, light brown fine, perpendicular to path of travel
reinforced with #4 bars @ 24" o.c. each way

6" Subgrade Preparation

Concrete Retaining Wall

5" PCC Sidewalk

Concrete Retaining Wall at Dam - Typical Section

6" Subgrade Preparation

Concrete Retaining Wall

5" reinforced PCC pavement, light brown fine, perpendicular to path of travel
reinforced with #4 bars @ 24" o.c. each way

6" Subgrade Preparation

Concrete Retaining Wall

5" PCC Sidewalk

Concrete Retaining Wall at Dam - Typical Section

6" Subgrade Preparation

Concrete Retaining Wall

5" reinforced PCC pavement, light brown fine, perpendicular to path of travel
reinforced with #4 bars @ 24" o.c. each way

6" Subgrade Preparation

Concrete Retaining Wall

5" PCC Sidewalk

Concrete Retaining Wall at Dam - Typical Section

6" Subgrade Preparation

Concrete Retaining Wall

5" reinforced PCC pavement, light brown fine, perpendicular to path of travel
reinforced with #4 bars @ 24" o.c. each way

6" Subgrade Preparation

Concrete Retaining Wall

5" PCC Sidewalk

Concrete Retaining Wall at Dam - Typical Section

6" Subgrade Preparation

Concrete Retaining Wall

5" reinforced PCC pavement, light brown fine, perpendicular to path of travel
reinforced with #4 bars @ 24" o.c. each way

6" Subgrade Preparation

Concrete Retaining Wall

5" PCC Sidewalk

Concrete Retaining Wall at Dam - Typical Section

6" Subgrade Preparation

Concrete Retaining Wall

5" reinforced PCC pavement, light brown fine, perpendicular to path of travel
reinforced with #4 bars @ 24" o.c. each way

6" Subgrade Preparation

Concrete Retaining Wall

5" PCC Sidewalk

Concrete Retaining Wall at Dam - Typical Section

6" Subgrade Preparation

Concrete Retaining Wall

5" reinforced PCC pavement, light brown fine, perpendicular to path of travel
reinforced with #4 bars @ 24" o.c. each way

6" Subgrade Preparation

Concrete Retaining Wall

5" PCC Sidewalk

Concrete Retaining Wall at Dam - Typical Section

6" Subgrade Preparation

Concrete Retaining Wall

5" reinforced PCC pavement, light brown fine, perpendicular to path of travel
reinforced with #4 bars @ 24" o.c. each way

6" Subgrade Preparation

Concrete Retaining Wall

5" PCC Sidewalk

Concrete Retaining Wall at Dam - Typical Section

6" Subgrade Preparation

Concrete Retaining Wall

5" reinforced PCC pavement, light brown fine, perpendicular to path of travel
reinforced with #4 bars @ 24" o.c. each way

6" Subgrade Preparation

Concrete Retaining Wall

5" PCC Sidewalk

Concrete Retaining Wall at Dam - Typical Section

6" Subgrade Preparation

Concrete Retaining Wall

5" reinforced PCC pavement, light brown fine, perpendicular to path of travel
reinforced with #4 bars @ 24" o.c. each way

6" Subgrade Preparation

Concrete Retaining Wall

5" PCC Sidewalk

Concrete Retaining Wall at Dam - Typical Section

6" Subgrade Preparation

Concrete Retaining Wall

5" reinforced PCC pavement, light brown fine, perpendicular to path of travel
reinforced with #4 bars @ 24" o.c. each way

6" Subgrade Preparation

Concrete Retaining Wall

5" PCC Sidewalk

Concrete Retaining Wall at Dam - Typical Section

6" Subgrade Preparation

Concrete Retaining Wall

5" reinforced PCC pavement, light brown fine, perpendicular to path of travel
reinforced with #4 bars @ 24" o.c. each way

6" Subgrade Preparation

Concrete Retaining Wall

5" PCC Sidewalk

Concrete Retaining Wall at Dam - Typical Section

6" Subgrade Preparation

Concrete Retaining Wall

5" reinforced PCC pavement, light brown fine, perpendicular to path of travel
reinforced with #4 bars @ 24" o.c. each way

6" Subgrade Preparation

Concrete Retaining Wall

5" PCC Sidewalk
2.5" Rubber Tile with 5" PCC Subslab and Beam Curb - Typical Section

4.5" Rubber Tile with 5" PCC Subslab and Beam Curb - Typical Section

Rear Tile adjacent to Concrete Sidewalk - Typical Section

Flat Curb - Typical Section

Bench Pad - Typical Layout

Note: Bench to face Sprayground or Playground.

Integrated Intersection

Note: Integrated Intersection subsidiary to 6" Shared use Path.
GENERAL NOTES:
1. THIS SITE SHALL BE MAINTAINED IN COMPLIANCE WITH ALL CITY CODE APPLICABLE ON THE DATE OF SITE PLAN APPROVAL.
2. ANY AMENDMENTS OR CHANGES TO THE PROJECT SITE THAT DO NOT MEET WHAT IS SHOWN ON THE SITE PLAN NEED TO BE APPROVED WITH THE PERMIT AND DEVELOPMENT CENTER PRIOR TO INSTALLATION/CONSTRUCTION.
3. LIGHTING MUST BE LOW GLARE CUT-OFF TYPE FIXTURES TO REDUCE THE GLARE OF LIGHT POLLUTION ON SURROUNDING PROPERTIES.
4. THE REQUIRED LANDSCAPING, BOTH EXISTING AND PROPOSED, SHALL BE MAINTAINED FOR THE LIFE OF THE CERTIFICATE OF OCCUPANCY.
5. ALL DISTURBED AREAS SHOULD BE RESTORED BY SEEDING OR SODDING.
6. ALL NEW LANDSCAPING AND NATIVE SEEDING SHALL BE PERFORMED BY OTHERS.

CONSTRUCTION NOTES:
1. PAVEMENT: PROVIDE THE FOLLOWING AS PER CITY OF DES MOINES STANDARDS.
   A DRIVEWAY APPROACH FROM THE EDGE OF THE STREET THROUGH THE BACK OF SIDEWALK MUST BE 7 INCHES MINIMUM THICKNESS (See Detail 7030.101)
2. ON THE DATE OF SITE PLAN APPROVAL.
3. FOR THE LIFE OF THE CERTIFICATE OF OCCUPANCY.
4. THE REQUIRED LANDSCAPING, BOTH EXISTING AND PROPOSED, SHALL BE MAINTAINED OF LIGHT POLLUTION ON SURROUNDING PROPERTIES.
5. LIGHTING MUST BE LOW GLARE CUT-OFF TYPE FIXTURES TO REDUCE THE GLARE.
6. ALL DISTURBED AREAS SHOULD BE RESTORED BY SEEDING OR SODDING.

GENERAL NOTES:
1. THIS SITE SHALL BE MAINTAINED IN COMPLIANCE WITH ALL CITY CODE APPLICABLE ON THE DATE OF SITE PLAN APPROVAL.
2. ANY AMENDMENTS OR CHANGES TO THE PROJECT SITE THAT DO NOT MEET WHAT IS SHOWN ON THE SITE PLAN NEED TO BE APPROVED WITH THE PERMIT AND DEVELOPMENT CENTER PRIOR TO INSTALLATION/CONSTRUCTION.
3. LIGHTING MUST BE LOW GLARE CUT-OFF TYPE FIXTURES TO REDUCE THE GLARE OF LIGHT POLLUTION ON SURROUNDING PROPERTIES.
4. THE REQUIRED LANDSCAPING, BOTH EXISTING AND PROPOSED, SHALL BE MAINTAINED FOR THE LIFE OF THE CERTIFICATE OF OCCUPANCY.
5. ALL DISTURBED AREAS SHOULD BE RESTORED BY SEEDING OR SODDING.
6. ALL NEW LANDSCAPING AND NATIVE SEEDING SHALL BE PERFORMED BY OTHERS.

CONSTRUCTION NOTES:
1. PAVEMENT: PROVIDE THE FOLLOWING AS PER CITY OF DES MOINES STANDARDS.
   A DRIVEWAY APPROACH FROM THE EDGE OF THE STREET THROUGH THE BACK OF SIDEWALK MUST BE 7 INCHES MINIMUM THICKNESS (See Detail 7030.101)
2. ON THE DATE OF SITE PLAN APPROVAL.
3. FOR THE LIFE OF THE CERTIFICATE OF OCCUPANCY.
4. THE REQUIRED LANDSCAPING, BOTH EXISTING AND PROPOSED, SHALL BE MAINTAINED OF LIGHT POLLUTION ON SURROUNDING PROPERTIES.
5. LIGHTING MUST BE LOW GLARE CUT-OFF TYPE FIXTURES TO REDUCE THE GLARE.
6. ALL DISTURBED AREAS SHOULD BE RESTORED BY SEEDING OR SODDING.
TREE PROTECTION
TYPICAL SECTION DETAILS

TYPICAL TREE PROTECTION FENCING - WORK ZONE AREA

TYPICAL TREE PROTECTION FENCING - BORDER AREA

Bike Racks
Plan View

Model ORP Surface Mount Omega Bike Rack
TYPICAL SECTIONS

All dimensions in inches
<table>
<thead>
<tr>
<th>Item No.</th>
<th>Item Code</th>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>Total</th>
<th>As Built Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2020-D</td>
<td>TYPICAL, ON-SITE</td>
<td>TYPICAL, ON-SITE</td>
<td>UNIT</td>
<td>200</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>2020-E</td>
<td>EXCAVATION, CLASS 10 ON-SITE</td>
<td>EXCAVATION, CLASS 10 ON-SITE</td>
<td>CY</td>
<td>2020</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>2020-F</td>
<td>EXCAVATION, CLASS 10 UNDERWATER</td>
<td>EXCAVATION, CLASS 10 UNDERWATER</td>
<td>CY</td>
<td>2235</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>2020-G</td>
<td>SUBGRADE PREPARATION</td>
<td>SUBGRADE PREPARATION</td>
<td>CY</td>
<td>4728</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>2020-H</td>
<td>SALVAGE AND REINSTALLATION OF GRAVEL</td>
<td>SALVAGE AND REINSTALLATION OF GRAVEL</td>
<td>LF</td>
<td>3300</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>4020-A</td>
<td>STORM SWEEPER, TRENCHED, 12'</td>
<td>STORM SWEEPER, TRENCHED, 12'</td>
<td>LF</td>
<td>284</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>4020-A</td>
<td>STORM SWEEPER, TRENCHED, 15'</td>
<td>STORM SWEEPER, TRENCHED, 15'</td>
<td>LF</td>
<td>628</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>4020-B</td>
<td>PIPE, RCP, 15'</td>
<td>PIPE, RCP, 15'</td>
<td>EA</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>4020-C</td>
<td>SUBDIAM, 8</td>
<td>SUBDIAM, 8</td>
<td>LF</td>
<td>142</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>5020-A</td>
<td>WATER MAIN, TRENCHED, PVC, 3&quot;</td>
<td>WATER MAIN, TRENCHED, PVC, 3&quot;</td>
<td>LF</td>
<td>72</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>5020-A</td>
<td>WATER MAIN, TRENCHED, PVC, 4&quot;</td>
<td>WATER MAIN, TRENCHED, PVC, 4&quot;</td>
<td>LF</td>
<td>245</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>5020-B</td>
<td>FITTINGS</td>
<td>FITTINGS</td>
<td>LB</td>
<td>205</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>5020-C</td>
<td>WATER SERVICE CURB STOP AND BOX</td>
<td>WATER SERVICE CURB STOP AND BOX</td>
<td>EA</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>5020-D</td>
<td>WATER SERVICE, WATER FOUNTAIN</td>
<td>WATER SERVICE, WATER FOUNTAIN</td>
<td>LF</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>4020-E</td>
<td>BACKFLOW PREVENTER WITH HOTBOX</td>
<td>BACKFLOW PREVENTER WITH HOTBOX</td>
<td>EA</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>4020-F</td>
<td>ABANDON WATER SERVICE</td>
<td>ABANDON WATER SERVICE</td>
<td>SS</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>4020-G</td>
<td>WATER SERVICE PLUMBING, SPRINKLER</td>
<td>WATER SERVICE PLUMBING, SPRINKLER</td>
<td>SS</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>4020-H</td>
<td>WATER SERVICE PLUMBING, SPRINKLER</td>
<td>WATER SERVICE PLUMBING, SPRINKLER</td>
<td>SS</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>7020-A</td>
<td>PIPE, REINFORCED PVC, 5&quot;</td>
<td>PIPE, REINFORCED PVC, 5&quot;</td>
<td>SY</td>
<td>2536</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>7020-B</td>
<td>PIPE, PVC, 6&quot;</td>
<td>PIPE, PVC, 6&quot;</td>
<td>SY</td>
<td>991</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>7020-C</td>
<td>BEAM CURB</td>
<td>BEAM CURB</td>
<td>LF</td>
<td>275</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>7020-D</td>
<td>FLAT CURB</td>
<td>FLAT CURB</td>
<td>LF</td>
<td>293</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>7020-E</td>
<td>REMOVAL OF SIDEWALK</td>
<td>REMOVAL OF SIDEWALK</td>
<td>LF</td>
<td>141</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>7020-F</td>
<td>SHARED USE PATH, 6&quot;</td>
<td>SHARED USE PATH, 6&quot;</td>
<td>LF</td>
<td>1158</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>7020-G</td>
<td>SPECIAL SUBGRADE PREPARATION FOR SHARED USE PATH</td>
<td>SPECIAL SUBGRADE PREPARATION FOR SHARED USE PATH</td>
<td>LF</td>
<td>1149</td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>7020-H</td>
<td>SIDEWALK, 5&quot;</td>
<td>SIDEWALK, 5&quot;</td>
<td>LF</td>
<td>150</td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>7020-I</td>
<td>DETECTABLE WARNINGS</td>
<td>DETECTABLE WARNINGS</td>
<td>SF</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>7020-J</td>
<td>FULL DEPTH PATH, 7&quot; PVC</td>
<td>FULL DEPTH PATH, 7&quot; PVC</td>
<td>LF</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>7020-K</td>
<td>FULL DEPTH PATH, 8&quot; PVC</td>
<td>FULL DEPTH PATH, 8&quot; PVC</td>
<td>LF</td>
<td>51</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>7020-L</td>
<td>PAVEMENT RENOVATION</td>
<td>PAVEMENT RENOVATION</td>
<td>LF</td>
<td>600</td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>8020-A</td>
<td>TEMPORARY TRAFFIC CONTROL</td>
<td>TEMPORARY TRAFFIC CONTROL</td>
<td>LS</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>8020-B</td>
<td>PAINTED SYMBOLS AND LEGENDS</td>
<td>PAINTED SYMBOLS AND LEGENDS</td>
<td>EA</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>8020-C</td>
<td>PAVEMENT MARKINGS</td>
<td>PAVEMENT MARKINGS</td>
<td>EA</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>8020-D</td>
<td>REMOVAL OF FLOOD LIGHTS AND POLES</td>
<td>REMOVAL OF FLOOD LIGHTS AND POLES</td>
<td>EA</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>35</td>
<td>8020-E</td>
<td>CONCRETE RETAINING WALL</td>
<td>CONCRETE RETAINING WALL</td>
<td>CONCRETE RETAINING WALL</td>
<td>EA</td>
<td>1</td>
</tr>
<tr>
<td>36</td>
<td>9020-A</td>
<td>STABILIZED CONSTRUCTION SYSTEM</td>
<td>STABILIZED CONSTRUCTION SYSTEM</td>
<td>CONCRETE</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>37</td>
<td>9020-B</td>
<td>SPECIAL EQUIPMENT</td>
<td>SPECIAL EQUIPMENT</td>
<td>EA</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>38</td>
<td>9020-C</td>
<td>PIPE, DRAIN</td>
<td>PIPE, DRAIN</td>
<td>LF</td>
<td>560</td>
<td></td>
</tr>
<tr>
<td>39</td>
<td>9020-D</td>
<td>FILTER SOCK, REMOVAL</td>
<td>FILTER SOCK, REMOVAL</td>
<td>LF</td>
<td>560</td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>9020-E</td>
<td>SILT FENCE</td>
<td>SILT FENCE</td>
<td>LF</td>
<td>560</td>
<td></td>
</tr>
<tr>
<td>41</td>
<td>9020-F</td>
<td>REMOVAL OF BRUSH</td>
<td>REMOVAL OF BRUSH</td>
<td>LF</td>
<td>250</td>
<td></td>
</tr>
<tr>
<td>42</td>
<td>9020-G</td>
<td>STABILIZED CONSTRUCTION SYSTEM</td>
<td>STABILIZED CONSTRUCTION SYSTEM</td>
<td>EA</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>43</td>
<td>9020-H</td>
<td>STEEL BARRIER GATE, SQUARE TUBULAR, 12&quot;</td>
<td>STEEL BARRIER GATE, SQUARE TUBULAR, 12&quot;</td>
<td>EA</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>44</td>
<td>9020-I</td>
<td>REMOVAL AND REINSTALLATION OF EXISTING FENCE, CHAIN LINK, 48&quot;</td>
<td>REMOVAL AND REINSTALLATION OF EXISTING FENCE, CHAIN LINK, 48&quot;</td>
<td>LF</td>
<td>480</td>
<td></td>
</tr>
<tr>
<td>45</td>
<td>9020-J</td>
<td>TOPORARY FENCE, ORANGE PLASTIC, 48&quot;</td>
<td>TOPORARY FENCE, ORANGE PLASTIC, 48&quot;</td>
<td>LF</td>
<td>2800</td>
<td></td>
</tr>
<tr>
<td>46</td>
<td>11020-A</td>
<td>CONSTRUCTION SURVEY</td>
<td>CONSTRUCTION SURVEY</td>
<td>EA</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>47</td>
<td>11020-B</td>
<td>MOBILIZATION</td>
<td>MOBILIZATION</td>
<td>EA</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>48</td>
<td>11020-C</td>
<td>CONTRACTOR PROTECTION</td>
<td>CONTRACTOR PROTECTION</td>
<td>EA</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>49</td>
<td>11020-D</td>
<td>SUPP. SPEC. TREE PROTECTION FENCE</td>
<td>SUPP. SPEC. TREE PROTECTION FENCE</td>
<td>LF</td>
<td>560</td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>11020-E</td>
<td>BUSH</td>
<td>BUSH</td>
<td>EA</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>51</td>
<td>11020-F</td>
<td>NO-SIDE RUBBERIZED COATING (LIFECYCLE)</td>
<td>NO-SIDE RUBBERIZED COATING (LIFECYCLE)</td>
<td>SF</td>
<td>1031</td>
<td></td>
</tr>
<tr>
<td>52</td>
<td>11020-G</td>
<td>SPRINGGROUND EQUIPMENT</td>
<td>SPRINGGROUND EQUIPMENT</td>
<td>EA</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>53</td>
<td>11020-H</td>
<td>POLE AND BACKBOARD</td>
<td>POLE AND BACKBOARD</td>
<td>EA</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>54</td>
<td>11020-I</td>
<td>FOOTING FOR POLE AND BACKBOARD 3'6&quot; X 1' WITH ANCHORS</td>
<td>FOOTING FOR POLE AND BACKBOARD 3'6&quot; X 1' WITH ANCHORS</td>
<td>EA</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>55</td>
<td>11020-J</td>
<td>PAVEMENT MARKINGS</td>
<td>PAVEMENT MARKINGS</td>
<td>EA</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>56</td>
<td>11020-K</td>
<td>BENCHES</td>
<td>BENCHES</td>
<td>EA</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>57</td>
<td>11020-L</td>
<td>PARK SHELTER</td>
<td>PARK SHELTER</td>
<td>EA</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>58</td>
<td>11020-M</td>
<td>GRILL PIT</td>
<td>GRILL PIT</td>
<td>EA</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>59</td>
<td>11020-N</td>
<td>PICNIC TABLES</td>
<td>PICNIC TABLES</td>
<td>LF</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>60</td>
<td>11020-O</td>
<td>PLAYGROUND</td>
<td>PLAYGROUND</td>
<td>EA</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>61</td>
<td>11020-P</td>
<td>PLAYGROUND EQUIPMENT</td>
<td>PLAYGROUND EQUIPMENT</td>
<td>LF</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>62</td>
<td>11020-Q</td>
<td>PLAYGROUND INSTALLATION</td>
<td>PLAYGROUND INSTALLATION</td>
<td>EA</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>63</td>
<td>11020-R</td>
<td>RUBBER PLAYGROUND TILES, 12&quot;</td>
<td>RUBBER PLAYGROUND TILES, 12&quot;</td>
<td>LF</td>
<td>124</td>
<td></td>
</tr>
<tr>
<td>64</td>
<td>11020-S</td>
<td>RUBBER PLAYGROUND TILES, 18&quot;</td>
<td>RUBBER PLAYGROUND TILES, 18&quot;</td>
<td>LF</td>
<td>432</td>
<td></td>
</tr>
<tr>
<td>65</td>
<td>11020-T</td>
<td>TABLE TENNIS</td>
<td>TABLE TENNIS</td>
<td>EA</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Item No.</td>
<td>Item Code</td>
<td>Description</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---------</td>
<td>-----------</td>
<td>-------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>1008-D</td>
<td>CLEANING AND GRUBBING</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>1008-D-1</td>
<td>TOPSOIL, ON-SITE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>1008-D-1</td>
<td>QUANTITY OF TOPSOIL REQUIRED HAS BEEN CALCULATED BASED ON AN AVERAGE 8 IN. THICKNESS RESIDED OVER ALL AREAS WITHIN THE GRADING LIMITS.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>1008-D</td>
<td>EXCAVATION, CLASS 1B, ON-SITE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>1008-D</td>
<td>EXCAVATION WITH DENSITY CONTROL FOR PLACEMENT OF CLASS 1B EXCAVATION IS INCIDENTAL TO THIS ITEM. THE EXCAVATION QUANTITIES FOR THIS PROJECT ARE AS FOLLOWS: CUT: 3,133 CY FILL: 546, 3,398 CY IMPORT: 279 CY (PAID BY SEPARATE ITEM)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>1008-D</td>
<td>EXCAVATION, CLASS 1B, IMPORT</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>1008-D</td>
<td>EXCAVATION WITH DENSITY CONTROL FOR PLACEMENT OF CLASS 1B EXCAVATION IS INCIDENTAL TO THIS ITEM. IMPORT MATERIAL SHALL BE CLEAN COHESIVE MATERIAL FROM LOCALLY APPROVED SOURCES SITE. THE EXCAVATION QUANTITIES FOR THIS PROJECT ARE AS FOLLOWS: IMPORT: 279 CY</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>1008-D</td>
<td>SUBGRADE PREPARATION</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>1008-D</td>
<td>SUBGRADE PREPARATION SHALL BE PERFORMED TO LIMITS 3' BEYOND THE EDGE OF ALL PROPOSED PAVEMENTS AND SIDEWALKS.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>1008-D</td>
<td>SALVAGE AND REINSTALLATION OF GRAVES</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>1008-D</td>
<td>THE CONTRACTOR SHALL REMOVE THE EXISTING GRAVES Drive AND PARKING LOT AND RE-USE FOR THE ACCESS ROAD TO THE PARK SHELL.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>1008-D</td>
<td>REF. DETAIL 11/12/2021</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>1008-D</td>
<td>PIPE APRON, RCP, 15'</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>1008-A</td>
<td>STORM SWALE, HARDEN, L12</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>1008-A</td>
<td>STORM SWALE, TRENCH, HARDEN, 15'</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>1008-A</td>
<td>REFER TO &quot;MP SHEETS FOR LOCATIONS AND DETAILS. CONNECT TO 8&quot; PIPE WITH COLAR, INCIDENTAL TO THIS ITEM.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>1008-A</td>
<td>SUBDIVISION, 8'</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>1008-A</td>
<td>REFER TO &quot;MP SHEETS FOR LOCATION, AND TYPICAL SECTION FOR DETENTION BASINS ON S-SHEETS.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>1008-A</td>
<td>WATER MAIN, TRENCH, RCP, 2'</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>1008-A</td>
<td>WATER MAIN, TRENCH, RCP, 4'</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>1008-A</td>
<td>REFER TO &quot;MP SHEETS FOR LOCATIONS AND DETAILS.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>1008-A</td>
<td>FITTINGS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>1008-A</td>
<td>INCLUDES ALL FITTINGS REQUIRED FOR WATER MAIN WORK SHOWN ON &quot;MP&quot; SHEETS.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>1008-A</td>
<td>WATER SERVICE CURB STOP AND BOX</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>1008-A</td>
<td>INSTALL 4&quot; VALVE AND STOP BOX FOR NEW 4&quot; WATER SERVICE. REFER TO &quot;MP&quot; SHEETS.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>1008-A</td>
<td>WATER SERVICE, WATER TO FIRE CONTROL</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>1008-A</td>
<td>BID ITEM: INSTALL 5' LFT OF 12&quot; HDPE PVC WATER SERVICE FROM THE RESTROOM BUILDING TO THE WATER TOWER.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>1008-A</td>
<td>ESTIMATE REF.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>1008-A</td>
<td>BACKFILL PREVENTER WITH HOPPER</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>1008-A</td>
<td>BID ITEM: INCLUDES THE INSTALLATION OF BACKFILL PREVENTERS, FOUNDATION, ENCLOSURES, AND ALL ASSOCIATED PIPING. BACKFILL SHALL BE NATS 95 SERIES MEASUREMENT AND PAYMENT SHALL BE AT THE UNIT PRICE FOR THE BACKFILL GROUT MIXTURE USED PER MANUFACTURERS RECOMMENDATIONS. REFER TO &quot;MP&quot; SHEETS FOR LOCATION.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>1008-A</td>
<td>ESTIMATE REF.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>1008-A</td>
<td>REARWATER SERVICE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>1008-A</td>
<td>BID ITEM INCLUDES THE CAPABILITY OF THE EXISTING WATER SERVICE, BACKFILLING, AND RESTORATION. COORDINATE AND INSTALLATION WITHIN THE OPERATIONS OF WATER WORKS MEASUREMENT AND PAYMENT SHALL BE AT THE UNIT PRICE FOR THE INSTALLATION OF WATER SERVICE. USED WATER SERVICES SHALL BE DISCONNECTED AT THE METER PER UPM'S STANDARDS.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>1008-A</td>
<td>ESTIMATE REF.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>35</td>
<td>1008-A</td>
<td>WATER SERVICE PLUMBING, SPRINKLERS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>36</td>
<td>1008-A</td>
<td>WATER SERVICE PLUMBING, SPRINKLERS INCLUDES ALL WATER LINES, CONNECTORS TO METER, AND ALL OTHER WORK REQUIRED TO PUMP THE SPRINKLERS TO PROVIDE EQUIPMENT, MEASUREMENT AND PAYMENT SHALL BE AT THE UNIT LNF PRICE FOR PLUMBING OF THE SPRINKLER SYSTEMS.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>37</td>
<td>1008-A</td>
<td>ESTIMATE REF.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>38</td>
<td>1008-A</td>
<td>METER PIT</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>39</td>
<td>1008-A</td>
<td>BID ITEM INCLUDES THE FURNISHING AND INSTALLATION OF A METER PIT FOR THE 4&quot; WATER SERVICE, INCLUDING A 4&quot; PRESSURE REGULATOR. THE 4&quot; WATER VALVE FOR THE SERVICE SHALL ALSO BE PLACED IN THIS PIT.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>1008-A</td>
<td>METER, SA-801, 48'</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>41</td>
<td>1008-A</td>
<td>IN-81, 551</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>42</td>
<td>1008-A</td>
<td>IN-81, 552</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>43</td>
<td>1008-A</td>
<td>REFER TO &quot;MP SHEETS FOR LOCATIONS AND DETAILS.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>44</td>
<td>1008-A</td>
<td>DRAIN BOX</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>45</td>
<td>1008-A</td>
<td>INSTALL DRAIN BOX WITH PEBBLE GRATE AT LOW POINT ON SPRINKLERS PER DETAILS.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ESTIMATE REFERENCE INFORMATION**

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Item Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>658-A</td>
<td>CONNECT TO EXISTING PIPE</td>
</tr>
<tr>
<td>26</td>
<td>658-A</td>
<td>REMOVE EXISTING WATER METER P坑 FOR &quot;M&quot; SHEETS.</td>
</tr>
<tr>
<td>27</td>
<td>750-A</td>
<td>PAVEMENT, RCP SUBLAYS, 5&quot;</td>
</tr>
<tr>
<td>28</td>
<td>750-A</td>
<td>PAVEMENT, REINFORCED RCP, 5&quot;</td>
</tr>
<tr>
<td>29</td>
<td>750-A</td>
<td>PAVEMENT, RCP, 5&quot;</td>
</tr>
<tr>
<td>30</td>
<td>750-F</td>
<td>BEAM CURB</td>
</tr>
<tr>
<td>31</td>
<td>750-F</td>
<td>REFER TO DETAIL SHEET B.82. BEAM CURB VARIES IN HEIGHT RELATIVE TO TIDE RISE.</td>
</tr>
<tr>
<td>32</td>
<td>750-A</td>
<td>REMOVE OR PARTIAL TO EXISTING &quot;M&quot; SHEETS FOR LOCATIONS</td>
</tr>
<tr>
<td>33</td>
<td>750-C</td>
<td>REMOVE OR PARTIAL TO EXISTING &quot;B&quot; SHEETS AND &quot;D&quot; SHEETS FOR LOCATIONS</td>
</tr>
<tr>
<td>34</td>
<td>750-D</td>
<td>SPECIAL SUBGRADE PREPARATION FOR SHARED USE PATH</td>
</tr>
<tr>
<td>35</td>
<td>750-E</td>
<td>SPECIAL SUBGRADE PREPARATION FOR SHEETS</td>
</tr>
<tr>
<td>36</td>
<td>750-D</td>
<td>DETECTABLE WARNINGS</td>
</tr>
<tr>
<td>37</td>
<td>750-D</td>
<td>REFER TO &quot;MP SHEETS FOR LOCATIONS.</td>
</tr>
<tr>
<td>38</td>
<td>750-D</td>
<td>REFER TO SHEET B.62 FOR DETAILS.</td>
</tr>
<tr>
<td>39</td>
<td>750-D</td>
<td>REFER TO SHEET NO. HYDRAULICS AND GEOMETRY SHEETS.</td>
</tr>
<tr>
<td>40</td>
<td>802-A</td>
<td>TYPICAL TRAFFIC CONTROL</td>
</tr>
<tr>
<td>41</td>
<td>802-A</td>
<td>TEMPORARY TRAFFIC CONTROL</td>
</tr>
<tr>
<td>42</td>
<td>802-D</td>
<td>PAINTED SYMBOLS AND LEGENDS</td>
</tr>
<tr>
<td>43</td>
<td>802-D</td>
<td>REFER TO SHEET B.64 FOR LOCATIONS.</td>
</tr>
<tr>
<td>44</td>
<td>802-D</td>
<td>ESTIMATE REF.</td>
</tr>
<tr>
<td>45</td>
<td>802-D</td>
<td>CONCRETE RETAINING WALL</td>
</tr>
<tr>
<td>46</td>
<td>802-D</td>
<td>CONCRETE RETAINING WALL</td>
</tr>
<tr>
<td>47</td>
<td>802-D</td>
<td>ESTIMATE REF.</td>
</tr>
<tr>
<td>48</td>
<td>802-D</td>
<td>CEMENT PAVING, CONCRETE</td>
</tr>
<tr>
<td>Item No.</td>
<td>Item Code</td>
<td>Description</td>
</tr>
<tr>
<td>---------</td>
<td>-----------</td>
<td>-------------</td>
</tr>
<tr>
<td>50</td>
<td>VMC-2</td>
<td>SILT FENCE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SEE FENCING AND ERECTION CONTROL SHEETS FOR PLACEMENT LOCATIONS. SILT FENCES THAT HAVE LOST MORE THAN 10% OF THEIR CAPACITY SHALL BE REMOVED AND REPLACED. CONTRACTOR WILL BE PAID CONTRACT UNIT PRICE FOR REPLACING SILT FENCES THAT HAVE LOST MORE THAN 5%. STORM DAMAGE TO BE REPAIRED BY THE CONTRACTOR’S COST. AN ADDITIONAL 2% HAS BEEN ADDED TO THE QUANTITY TO ACCOUNT FOR REPLACEMENT OF DAMAGED FENCE.</td>
</tr>
<tr>
<td>51</td>
<td>VMC-3</td>
<td>SILT FENCE, REMOVAL OF DEVICE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>REMOVE ALL INSTALLED DEVICES AFTER FINAL STABILIZATION OR AS NEEDED FOR STORM WATER POLLUTION PREVENTION PLAN (SWPPP) MAINTENANCE. MEASUREMENT SHALL BE PER LINEAR FOOT OF CONTROL. DEVICE REMOVAL AND PAYMENT SHALL BE THE CONTRACT UNIT PRICE PER FOOT. ALL DEVICES SHALL BE DISPOSED OF OFF-SITE.</td>
</tr>
<tr>
<td>52</td>
<td>VMC-4</td>
<td>STABILIZED CONSTRUCTION ENTRANCE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CONTRACTOR SHALL DETERMINE BEST LOCATION FOR STABILIZED ENTRANCE BASED ON ACCESS TO PROJECT SITE AND COST.</td>
</tr>
<tr>
<td>53</td>
<td>ESTIMATE REF.</td>
<td>STEEL BARRIER GRATE, SQUARE TUBULAR, 10'</td>
</tr>
<tr>
<td></td>
<td></td>
<td>REFER TO SHEET 4, 64, &amp; 84 FOR LOCATION OF 10' GATE. CENTER GATE TO GRAVEL SURFACE. GATE SHALL BE &quot;GATE DEPART DURANGO SGS 32 SUPER-DURABLE STEEL BARRIER GRATE SQUARE TUBULAR 10'-1/2'. STEEL GRATE TO BE PLACE AND INSTALL AT THE CONTRACTOR’S COST. MEASUREMENT AND PAYMENT SHALL BE AT THE UNIT PRICE FOR EACH GATE INSTALLED.</td>
</tr>
<tr>
<td>54</td>
<td>ESTIMATE REF.</td>
<td>REMOVAL AND REINSTALLATION OF CAST IRON FENCE, CHAIN LINK, 6'</td>
</tr>
<tr>
<td></td>
<td></td>
<td>REMOVE AND REPLACE FENCE TO INSTALL STORM STREET INTACT ON PLK 38. PARKWAY</td>
</tr>
<tr>
<td>55</td>
<td>VMC-1</td>
<td>TEMPORARY FENCE, U-CHANNEL PVC, 48'</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FURNISH AND INSTALL FENCE AROUND PROJECT TO PROTECT THE PUBLIC FROM THE PROJECT.</td>
</tr>
<tr>
<td>56</td>
<td>ESTIMATE REF.</td>
<td>CONSTRUCTION SURVEY</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MEASUREMENT AND PAYMENT SHALL BE AT THE UNIT PRICE PER FOOT FOR SURVEYING AND INSTALLING THE FENCE.</td>
</tr>
<tr>
<td>57</td>
<td>ESTIMATE REF.</td>
<td>CONSTRUCTION SURVEY</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MEASUREMENT AND PAYMENT SHALL BE AT THE UNIT PRICE PER FOOT FOR SURVEYING AND INSTALLING THE FENCE.</td>
</tr>
<tr>
<td>58</td>
<td>SUPP. SPEC.</td>
<td>TREE PROTECTION FENCE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SEE CITY SUPPLEMENTAL SPECIFICATION</td>
</tr>
<tr>
<td>59</td>
<td>ESTIMATE REF.</td>
<td>BENCH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>INCLUDES ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR FURNISHING, ASSEMBLY, AND INSTALLATION OF URBAN VALLEY STYLE BENCH (6'). SQUARE PERFORATED. PLANKS TO BE DELIVERED TO PARKS AND RECREATION DEPARTMENT AT THE MUNICIPAL SERVICES BUILDING.</td>
</tr>
<tr>
<td>60</td>
<td>SUPP. SPEC.</td>
<td>NON-RENEWABLE MATERIALS &amp; EQUIPMENT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>INCLUDES ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR FURNISHING AND INSTALLATION OF NON-RENEWABLE MATERIALS &amp; EQUIPMENT. MEASUREMENT AND PAYMENT SHALL BE AT THE UNIT PRICE FOR SQUARE YARD OF CASTING INSTALLED AS SPECIFIED IN THE PLANS AND SPECIFICATIONS. ALL SURFACE PREPARATION AND PREPARING COSTS ARE INCURRABLE TO THIS ITEM. REFER TO SUPPLEMENTAL SPECIFICATIONS FOR NON-RENEWABLE MATERIALS &amp; EQUIPMENT.</td>
</tr>
<tr>
<td>61</td>
<td>SUPP. SPEC.</td>
<td>SPRINKLERS &amp; FOUNTAINS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>THESE ITEMS INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR COMPLETE INSTALLATION OF THE SPRINKLERS &amp; FOUNTAINS AS DESCRIBED IN THE PLANS AND SPECIFICATIONS. SEE SUPPLEMENTAL SPECIFICATIONS FOR ADDITIONAL DETAILS.</td>
</tr>
<tr>
<td>62</td>
<td>ESTIMATE REF.</td>
<td>POLE AND BACKBOARD</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&quot;POLE - MARVIN (TILE INC. - 107'X25</td>
</tr>
<tr>
<td></td>
<td></td>
<td>REM - MARVIN TILE INC. - 107'X25</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BACKBOARD - MARV MARVIN TILE INC. - 107'X25</td>
</tr>
<tr>
<td></td>
<td></td>
<td>INCLUDES ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE FURNISHING AND INSTALLATION OF THE POLE AND BACKBOARD. MEASUREMENT AND PAYMENT SHALL BE AT THE UNIT PRICE FOR EACH ITEM INSTALLED.</td>
</tr>
<tr>
<td>63</td>
<td>ESTIMATE REF.</td>
<td>EXTENDING FOLK &amp; BANDSOF THES</td>
</tr>
<tr>
<td></td>
<td></td>
<td>REFER TO SHEET 63 - POLE AND BACKBOARD, AND INSTALL FOR MANUFACTURERS SPECIFICATIONS. MEASUREMENT AND PAYMENT SHALL BE AT THE UNIT PRICE FOR EACH ITEM INSTALLED.</td>
</tr>
<tr>
<td>65</td>
<td>ESTIMATE REF.</td>
<td>BASKETBALL &amp; FUTSAL COURT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CONTRACTOR SHALL USE WATERBASED PAINT MARKINGS TO PAINT THE BASKETBALL AND FUTSAL COURTS PER DETAILS PROVIDED IN THE PLANS. MEASUREMENT AND PAYMENT SHALL BE AT THE UNIT PRICE FOR EACH SQUARE YARD OF PAINT MARKED. THE MEASUREMENT OF THE BASKETBALL COURT SHOULD BE 78' X 42' AND THE MEASUREMENT OF THE FUTSAL COURT SHOULD BE 78' X 30'.</td>
</tr>
<tr>
<td>66</td>
<td>ESTIMATE REF.</td>
<td>BLEACHERS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>INCLUDES ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO FURNISH AND INSTALL BLEACHERS. BLEACHERS SHALL BE BOLD HEAVY OIL BASED BLEACHERS, 3'-0&quot; X 6'-0&quot; IN LENGTH. MEASUREMENT AND PAYMENT SHALL BE AT THE UNIT PRICE FOR EACH BLEACHER INSTALLED.</td>
</tr>
<tr>
<td>67</td>
<td>ESTIMATE REF.</td>
<td>PARK SHELTER</td>
</tr>
<tr>
<td></td>
<td></td>
<td>INCLUDES ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO FURNISH AND INSTALL SHELTER. SHELTER SHALL BE HUNTING POLE SHELTER MSL 24X42 - 58664 NEROPOLO ROAD, NO. OHIOån. SIZE SHALL BE 26'X39'</td>
</tr>
</tbody>
</table>
Legend:
- 5" Reinforced PCC
- Concrete Retaining Wall
- Non-Skid Rubberized Coating (Tuffcoat)

INSTALL BENCH = 3 EA
INSTALL SPRAY FEATURE = 6 EA
INSTALL SPRAY FEATURE = 3 EA
INSTALL SPRAY FEATURE = 2 EA
INSTALL SPRAY FEATURE = 6 EA
INSTALL SPRAY FEATURE = 3 EA
INSTALL SPRAY FEATURE = 2 EA
INSTALL SPRAY FEATURE = 6 EA
INSTALL SPRAY FEATURE = 3 EA
INSTALL SPRAY FEATURE = 2 EA

COATING (TUFFCOAT) = 1913 SF
INSTALL NON-SKID RUBBERIZED COATING (TUFFCOAT) = 183 SF

INSTALL 565 SQ 5" REINFORCED PCC
INSTALL (1) MA5.28031 DAM
INSTALL (2) MA5.28035 DAM
INSTALL 565 SY 5" REINFORCED PCC

INSTALL CONCRETE RETAINING WALL = 1.8 CY
INSTALL CONCRETE RETAINING WALL = 2.6 CY
INSTALL CONCRETE RETAINING WALL = 2.6 CY
INSTALL CONCRETE RETAINING WALL = 2.6 CY
INSTALL CONCRETE RETAINING WALL = 2.6 CY
INSTALL CONCRETE RETAINING WALL = 2.6 CY
INSTALL CONCRETE RETAINING WALL = 2.6 CY
INSTALL CONCRETE RETAINING WALL = 2.6 CY
INSTALL CONCRETE RETAINING WALL = 2.6 CY

LEGEND:
- COATING (TUFFCOAT)
- NON-SKID RUBBERIZED COATING (TUFFCOAT)
- CONCRETE RETAINING WALL
- 5" REINFORCED PCC
INSTALL 4.5" RUBBER TILES W/ 5" PCC SUBSLAB + 425 SQ

INSTALL BEAM CURB = 154 LF (SEE 4.5" RUBBER TILE DETAIL ON B.02)

PLAYGROUND INSTALLATION = 1 LS

INSTALL 5" RUBBER TILES W/ 5" PCC SUBBASE = 124 SQ

INSTALL BEAM CURB = 117 LF (SEE 2.5" RUBBER TILE DETAIL ON B.02)

INSTALL 2.5" RUBBER TILES W/ 5" PCC SUBLAB + 124 SQ

PLAYGROUND INSTALLATION = 1 LS

5" PCC SUBSLAB = 124 SQ

INSTALL 4.5" RUBBER TILES W/ 5" PCC SUBBASE = 425 SQ

INSTALL BEAM CURB = 154 LF (SEE 2.5" RUBBER TILE DETAIL ON B.02)

PLAYGROUND INSTALLATION = 1 LS

LEGEND:

INSTALL BENCH = 3 EA

RUBBER TILES W/ 5" PCC SUBBASE

BEAM CURB
INSTALL 5" REINFORCED PCC = 164 SY
INSTALL 5" REINFORCED PCC = 200 SY
INSTALL 5" REINFORCED PCC = 697 SY
INSTALL 5" REINFORCED PCC = 864 SY
INSTALL POLE & BACKBOARD = 2 EA
INSTALL FOOTINGS FOR POLE & BACKBOARD 3X6X1' WITH ANCHORS = 2 EA
INSTALL PAVEMENT MARKINGS - BASKETBALL COURT = 1 LS
INSTALL BLEACHER - 2 EA
INSTALL FLOOD LIGHT (BACK TO BACK)
INSTALL TABLE TENNIS = 1 LS
INSTALL FUTSAL BARRIERS (BY OTHERS)
INSTALL RAINGARDEN (BY OTHERS)
INSTALL RAINGARDEN (REF TO TYPICAL ON B.03 SHEET)
INSTALL FUTSOL BARRIERS
INSTALL INSTALL 5" REINFORCED PCC
INSTALL 5" REINFORCED PCC
LEGEND:

5" REINFORCED PCC
INSTALL PAINTED SYMBOLS & LEGENDS = 1 EA
INSTALL PAINTED PAVEMENT MARKINGS, SOLVENT/WATERBORNE = 3 STA
INSTALL 7" PCC PAVEMENT = 991 SY
RESTROOM RENOVATION = 1 LS
INSTALL GATE 10' 15.75' 25'
(3) BIKE RACKS, SEE DETAILS ON D.04 SHEET
LEGEND:
- 7" PCC PAVEMENT
INSTALL SALVAGED GRAVEL SURFACING = 415 SY

LEGEND:

- 7" PCC PAVEMENT
- SALVAGED GRAVEL SURFACING
INSTALL FLAT CURB = 293 LF

PARK SHELTER = 1 LS
5" REINFORCED PCC = 208 SY
INSTALL GRILL PIT = 1 EA
INSTALL PICNIC TABLES = 6 EA

FOR DETAIL
SEE B.03 SHEET
DETENTION BASIN,
SEE B.03 SHEET
FOR DETAIL
LEGEND:
- SHARE PATH, 6" PCC
- 5" SIDEWALK PCC

MOTION TABLE

- INSTALL 5" SIDEWALK PCC - 82 SY
- INSTALL 5" SIDEWALK PCC - 40 SY
- INSTALL SHARED USE PATH, 6" PCC - 200 SY
- INSTALL SHARED USE PATH, 6" PCC - 36 SY

SCALE: 5.09" = 28'
INSTALL SHARED USE PATH, 6" PCC = 483 SY

INSTALL 5" SIDEWALK PCC = 12 SY

LEGEND:
- Shared Use Path, 6" PCC
- 3" Sidewalk PCC
NOTES:
1. STREET CLOSURE SHALL BE USED FOR WATER MAIN CROSSING OF SCOTT AVENUE ONLY, AND SHALL BE RESTRICTED TO 7 DAYS.
2. 7-DAYS NOTICE SHALL BE GIVEN TO THE CITY AND OWNERS WITHIN THE CLOSURE.
4.5" RUBBER TILES W/ 3" PCC SUBSLAB

5" PCC SIDEWALK

5" PCC SHARED USE PATH

NOTE: ALL ELEVATIONS EQUAL TO FORM GRADE UNLESS OTHERWISE NOTED.
ALL ELEVATIONS SHOWN IN RUBBER TILE AREA EQUAL TO TOP OF RUBBER TILES.
SEE TYPICAL SECTIONS ON SHEET 0.02 FOR ALL TOP OF CURB ELEVATION LOCATIONS.

SCALE IN FEET
12
6

637-206
K.02

SPRAYGROUND GEOMETRICS
NOTE: ALL ELEVATIONS EQUAL TO FORM GRADE UNLESS OTHERWISE NOTED.
ALL TOP OF CURB ELEVATIONS EQUAL TO TOP OF 6" CURB HEIGHT UNLESS OTHERWISE NOTED.
1. Refer to SUDas Section 7010 for PCC Paving Specification.
2. Refer to SUDas Detail T010.101 for Jointing Details.
3. For Manhole Box Joint in Paving, see SUDas Figure T010.103.
4. Proposed pavement joint spacing shall be as shown or match existing joint spacing where applicable.
5. All proposed street Paving shall be tied to existing PCC Paving with "BT" abutting pavement joint.
6. L-2 and K-2 joints are interchangeable if shown.
7. Refer to SUDas Section 7020 for PCC Sidewalk, Trail & Driveways.
8. Sidewalk joints shall be per SUDas Section 7031.2.04, F.
INSTALL SW-401 (48") MH

FL N (8") = 21.67
FL W (12") = 21.52
RIM = 23.59

INSTALL SW-401 (48") MH

FL E (12") = 19.93

CONNECT TO EXISTING INTAKE
FL E (12") = 19.03
INSTALL SW-401 (48") MH

RIM = 23.59
FL W (12") = 21.92
FL H (8") = 23.67

EXISTING GROUND

PROPOSED GROUND

49.72 LF 5" DRAIN, DEEPENED # 2.035' RIM = 23.59

INSTALL 4-1/8" X 2' DRAINBOX

PG = 23.57
FL S (8") = 23.70

FL S (8") = 23.70

SCALE IN FEET

15 20 25 30 35 40

5 10 15 20 25 30 35 40
CONNECT TO EXISTING INTAKE
FL: N (15') = 11.80

FL: N (15') = 11.62

R IM = 22.40

SW-512 24"F
RM = 23.40
FL: N (8') = 14.38
FL: E (15') = 14.28

8" SUBDRAIN

EXISTING GROUND

PREPARED GROUND

EXISTING GROUND

CONNECT TO EXISTING INTAKE
FL: N (15') = 11.80

5-13

5-12

P-10

P-4

S-12

S-14

S-10

S-14

P-4

S-12

F L S (15") = 14.28
F L N (8") = 14.38
R IM = 22.40
S W -512 (24")

P-10

@ 3.31%
15 HDPE

P-4

@ 0.50%
8" SUBDRAIN, PERFORATED
50.52 LF

S-14

FL=14.63

FL=14.38

FL=14.28

22.40

S W -512 (24")

S-12

EXISTING MANHOLE

S-13

EXISTING GROUND

S-12
### STORM SEWER

**INTAKES AND UTILITY ACCESSES**

<table>
<thead>
<tr>
<th>No.</th>
<th>Location Station and Offset</th>
<th>Type or Standard Road Plan</th>
<th>Form Grade</th>
<th>Bottom Well Length**</th>
<th>Notes</th>
<th>Line Number</th>
<th>Intake/Utility Access No.</th>
<th>Class 'D'</th>
<th>Pipe Size</th>
<th>Bid* Length</th>
<th>Design Length</th>
<th>Slope X</th>
<th>Connected Pipe Joint (OR-121)</th>
<th>Flow Lines</th>
<th>Pipe Profile</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-1</td>
<td>N PARK</td>
<td>EXISTING INTAKE</td>
<td>22.68</td>
<td>28.52</td>
<td></td>
<td></td>
<td>F-1</td>
<td>S-2</td>
<td>S-2</td>
<td>44.73</td>
<td>80.7</td>
<td>2.52</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S-2</td>
<td>S SPRAYGROUND</td>
<td>SA-481, 48 IN.</td>
<td>25.59</td>
<td>28.52</td>
<td></td>
<td></td>
<td>F-3</td>
<td>S-4</td>
<td>S-2</td>
<td>94.72</td>
<td>80.7</td>
<td>2.52</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S-3</td>
<td>S PARK</td>
<td>EXISTING INTAKE</td>
<td>22.48</td>
<td>13.28</td>
<td></td>
<td></td>
<td>F-10</td>
<td>S-12</td>
<td>S-11</td>
<td>84.38</td>
<td>80.4</td>
<td>3.31</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S-4</td>
<td>S PARK, DETENTION</td>
<td>SW-512</td>
<td>17.38</td>
<td>10.52</td>
<td></td>
<td></td>
<td>F-8</td>
<td>S-9</td>
<td>S-10</td>
<td>336.98</td>
<td>305.8</td>
<td>0.84</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S-5</td>
<td>N PARK, DRIVEWAY</td>
<td>SW-511</td>
<td>25.62</td>
<td>28.87</td>
<td></td>
<td></td>
<td>F-9</td>
<td>S-11</td>
<td>S-9</td>
<td>261.78</td>
<td>158.0</td>
<td>0.76</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**PIPES**

Design length, slope, and flowlines are calculated from inside wall to inside wall along CL of pipe. An additional 2 ft length is added to each side of the Design Length to account for estimated length to center of structures.

---

* Bid Item

** For SW-546

---

** Diameter or equivalent diameter

---

** For SW-546
CUT = 1,041 CY
FILL = 1,133 CY
FILL FACTOR = 1.3
IMPORT = 92 CY

SCALE IN FEET
30
60

S E  2 6 T H  C T
S E  2 7 T H  C T
E  M L K  P K W Y

N.01

GRADING
SCOTT AVENUE

FLOODLIGHT ELECTRICAL SERVICE

SHELTER ELECTRICAL SERVICE

RELOCATE ELECTRICAL REX AND METER TO RESTROOM

METER TO RESTROOM

RELOCATE ELECTRICAL BOX AND FLOODLIGHT ELECTRICAL SERVICE

SHELTER ELECTRICAL SERVICE

RELOCATE BY CENTURYLINK

TELEPHONE PEDESTAL - 637-222 P.01

ELECTRICAL LAYOUT
SCOTT AVENUE

REMOVE TREES AS DIRECTED BY PARKS AT THE TIME OF CONSTRUCTION

6 EA REMOVE FLOOD LIGHTS & POLES

4 EA REMOVE MANHOLE & VALVE (BY OTHERS)

1 EA POST REMOVAL (BY OTHERS)

206 SY PAVEMENT REMOVAL (BY OTHERS)

44 SY SIDEWALK REMOVAL (BY OTHERS)

1 EA REMOVE PAVEMENT & VALVE

1,553 SY SALVAGE EXISTING GRAVEL ROAD

731 SY PAVEMENT REMOVAL (BY OTHERS)

30 LF REMOVE & REPLACE FENCE

303 BY SALVAGE EXISTING GRAVEL ROAD

E ML KING JR PKWY

 Sidewalk removal (completed by others)

Demolish existing play structures (completed by others)

Demolish & Backfill Old Pool (completed by others)

Remove & Replace Fence

30 LF REMOVE & REPLACE FENCE

637-223

R.01

637-223

R.01

REMOVALS
MECHANICAL RENOVATION NOTES:
These notes apply to all mechanical trades, including but not limited to, plumbing and ventilation.

1. Existing conditions and notes are based on information provided by the architect and the contractor. The architect and contractor are responsible for verifying the accuracy of the information. All changes made to existing systems shall be documented and approved by the owner and the architect.

2. New work shall be installed in accordance with the latest edition of NFPA 70 (NEC) 2020 EDITION and NFPA 90A-2019 EDITION, and all applicable building codes. The architect and contractor are responsible for ensuring that all new work is installed in accordance with the approved plans and specifications.

3. The architect and contractor shall be responsible for verifying the compatibility of new equipment with existing systems. New systems shall be designed to function independently of the existing systems without impairing the performance of the existing systems.

4. The architect and contractor shall be responsible for verifying the compatibility of new equipment with existing systems. New systems shall be designed to function independently of the existing systems without impairing the performance of the existing systems.

5. The architect and contractor shall be responsible for verifying the compatibility of new equipment with existing systems. New systems shall be designed to function independently of the existing systems without impairing the performance of the existing systems.

6. The architect and contractor shall be responsible for verifying the compatibility of new equipment with existing systems. New systems shall be designed to function independently of the existing systems without impairing the performance of the existing systems.

7. The architect and contractor shall be responsible for verifying the compatibility of new equipment with existing systems. New systems shall be designed to function independently of the existing systems without impairing the performance of the existing systems.

8. The architect and contractor shall be responsible for verifying the compatibility of new equipment with existing systems. New systems shall be designed to function independently of the existing systems without impairing the performance of the existing systems.

9. The architect and contractor shall be responsible for verifying the compatibility of new equipment with existing systems. New systems shall be designed to function independently of the existing systems without impairing the performance of the existing systems.

10. The architect and contractor shall be responsible for verifying the compatibility of new equipment with existing systems. New systems shall be designed to function independently of the existing systems without impairing the performance of the existing systems.

11. The architect and contractor shall be responsible for verifying the compatibility of new equipment with existing systems. New systems shall be designed to function independently of the existing systems without impairing the performance of the existing systems.

12. The architect and contractor shall be responsible for verifying the compatibility of new equipment with existing systems. New systems shall be designed to function independently of the existing systems without impairing the performance of the existing systems.
1. **REFER TO DRAWINGS FOR NECK SIZE. ALL BRANCH DUCTWORK TO AIR TERMINALS SHALL BE NECK SIZE UNLESS NOTED OTHERWISE.**

**NOTES:**

**AIR TERMINAL SCHEDULE**


**FAN SCHEDULE**

<table>
<thead>
<tr>
<th>TAG NAME</th>
<th>DESCRIPTION</th>
<th>MANUFACTURER AND MODEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>EF-1</td>
<td>RESTROOMS</td>
<td>300 12 8 1000 0.10 TYPE 1 RUSKIN ELF375</td>
</tr>
</tbody>
</table>

**LOUVER SCHEDULE**

- PROVIDE LOUVER FOR ROOM MAKEUP AIR.

**PLUMBING MATERIAL LIST**

- ACCOMMODATE LOUVER AND GRILLE INSTALLATIONS.

---

**GENERAL SHEET NOTES:**

- REFER TO LINTEL SCHEDULE ON V.05 FOR LINTEL SIZE AND REQUIREMENTS.
QUALITY ASSURANCE

SPECIFICATIONS - MECHANICAL

ELECTRICAL IDENTIFICATION
FRACTIONAL HORSEPOWER MANUAL STARTER: NEMA ICS 2; AC GENERAL
WIRE AND CABLE
ON CENTER WHEN ATTACHING TO
GROUNDING AND BONDING
MOTOR CONTROL
ALL WORK ABOVE THE CEILINGS MUST BE COMPLETE PRIOR TO THE ARCHITECT/ENGINEER'S REVIEW. THIS
ANY MATERIAL, ARTICLE, OR EQUIPMENT OF OTHER UNNAMED MANUFACTURERS WHICH WILL ADEQUATELY
ASSOCIATED WITH THE PROJECT AND AS INITIATED BY THE OWNER OR AUTHORIZED AGENCY/CONSULTANT.
CLEANING
SIMILAR TO OPERATION AND MAINTENANCE MANUAL.
PROVIDE BOUND MANUALS WITH COPIES OF APPROVED SHOP DRAWINGS WITH TITLE PAGE AND INDEX SYSTEM
MANUALS FURNISHED WITH THE EQUIPMENT SHALL BE INCLUDED.
OPERATION AND MAINTENANCE DATA SHALL CONSIST OF WRITTEN INSTRUCTIONS FOR THE CARE,
SHOP DRAWINGS, SPARE PARTS AND EXTRA MATERIALS IN QUANTITIES SPECIFIED IN THESE SPECIFICATIONS.
SUBMIT THE FOLLOWING: OPERATION AND MAINTENANCE MANUALS INCLUDING BOUND COPIES OF APPROVED
PROJECT CLOSEOUT
IN ORDER TO PREVENT THE FINAL JOBSITE OBSERVATION FROM OCCURRING TOO EARLY, THE CONTRACTOR
SEALED.
CONDUIT IS SUPPORTED ABOVE AND INDEPENDENTLY OF THE CEILING, AND ALL WALL PENETRATIONS ARE
SOFFITS.
TO COVERING INTERIOR PARTITIONS AND CHASES AND INSTALLING HARD OR SUSPENDED CEILINGS AND
OBSERVATION OF WORK
FROM THE ARCHITECT/ENGINEER VIA ADDENDUM.
PERFORM THE SERVICES AND DUTIES IMPOSED BY THE DESIGN AND IS OF A QUALITY EQUAL TO OR BETTER
SPECIFICATIONS, AND FIT IN THE ALLOCATED SPACE. THE ARCHITECT/ENGINEER SHALL MAKE THE FINAL
WHERE SEVERAL MANUFACTURERS' NAMES ARE GIVEN, THE MANUFACTURER FOR WHICH A CATALOG NUMBER
MATERIAL SUBSTITUTION
REFER TO SUBSECTIONS FOR ADDITIONAL WARRANTY REQUIREMENTS.
REFER TO SUBSECTIONS FOR SPECIFIC SUBMITTAL REQUIREMENTS.
SHOWN ON A MANUFACTURER'S SHEET, CLEARLY INDICATE EXACTLY WHICH ITEM AND WHICH DATA IS
THEM TO THE ARCHITECT/ENGINEER. CONTRACTOR SHALL CLEARLY MARK ALL DEVIATIONS FROM THE
SUBMITTALS SHALL BE REQUIRED WHERE REQUIRED IN THE SPECIFICATIONS OR ON THE DRAWINGS. THE

CONDUCTORS SHALL BE COPPER IN ACCORDANCE WITH 26 05 13.
EQUIPMENT DESIGN
BROKEN CONDUIT AND CONDUCTOR SIZING SHALL BE COORDINATED TO LIMIT CONDUCTOR FILL TO LESS THAN 40%,
SIZE #14 AWG.
RATED 60°C, INDIVIDUAL CONDUCTORS TWISTED TOGETHER, SHIELDED, AND COVERED WITH PVC. MINIMUM
CONDUCTORS SHALL BE COPPER ACCORDINGLY WITH 26 05 13.

CONDUCTORS SHALL BE COLOR CODED AS FOLLOWS:

B_phase: RED
G_PHASE: GREEN
R_PHASE: BROWN
208Y/120 VOLT, 4_WIRE:

CONTROL CABINETS FOR CLASS 1, 2, AND 2 CIRCUITS SHALL BE COPPER, AND VOLTAGE RATING
ON THE DRAWING, AS SHOWN IN THE MATERIALS LIST. THE MANUFACTURER'S SHEET SHOWN ON A MANUFACTURER'S SHEET, CLEARLY INDICATE EXACTLY WHICH ITEM AND WHICH DATA IS
THEM TO THE ARCHITECT/ENGINEER. CONTRACTOR SHALL CLEARLY MARK ALL DEVIATIONS FROM THE
SUBMITTALS SHALL BE REQUIRED WHERE REQUIRED IN THE SPECIFICATIONS OR ON THE DRAWINGS. THE

CONDUCTORS SHALL BE COPPER IN ACCORDANCE WITH 26 05 13.
EQUIPMENT DESIGN
BROKEN CONDUIT AND CONDUCTOR SIZING SHALL BE COORDINATED TO LIMIT CONDUCTOR FILL TO LESS THAN 40%,
SIZE #14 AWG.
RATED 60°C, INDIVIDUAL CONDUCTORS TWISTED TOGETHER, SHIELDED, AND COVERED WITH PVC. MINIMUM
CONDUCTORS SHALL BE COPPER ACCORDINGLY WITH 26 05 13.

CONDUCTORS SHALL BE COLOR CODED AS FOLLOWS:

B_phase: RED
G_PHASE: GREEN
R_PHASE: BROWN
208Y/120 VOLT, 4_WIRE:

CONTROL CABINETS FOR CLASS 1, 2, AND 2 CIRCUITS SHALL BE COPPER, AND VOLTAGE RATING
ON THE DRAWING, AS SHOWN IN THE MATERIALS LIST. THE MANUFACTURER'S SHEET SHOWN ON A MANUFACTURER'S SHEET, CLEARLY INDICATE EXACTLY WHICH ITEM AND WHICH DATA IS
THEM TO THE ARCHITECT/ENGINEER. CONTRACTOR SHALL CLEARLY MARK ALL DEVIATIONS FROM THE
SUBMITTALS SHALL BE REQUIRED WHERE REQUIRED IN THE SPECIFICATIONS OR ON THE DRAWINGS. THE

CONDUCTORS SHALL BE COPPER IN ACCORDANCE WITH 26 05 13.
EQUIPMENT DESIGN
BROKEN CONDUIT AND CONDUCTOR SIZING SHALL BE COORDINATED TO LIMIT CONDUCTOR FILL TO LESS THAN 40%,
SIZE #14 AWG.
RATED 60°C, INDIVIDUAL CONDUCTORS TWISTED TOGETHER, SHIELDED, AND COVERED WITH PVC. MINIMUM
CONDUCTORS SHALL BE COPPER ACCORDINGLY WITH 26 05 13.