GEDDES ROAD WATER MAIN

BID No. ITB 4656, FILE No. 2018040
### PERMITS REQUIRED TO BE OBTAINED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION.

<table>
<thead>
<tr>
<th>PERMIT</th>
<th>ISSUING AUTHORITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO PARKING SIGNS PERMIT*</td>
<td>CITY OF ANN ARBOR ENGINEERING</td>
</tr>
<tr>
<td>GRADING, DESIGN &amp; EROSION CONTROL PERMIT*</td>
<td>CITY OF ANN ARBOR CUSTOMER SERVICE</td>
</tr>
<tr>
<td>RIGHT-OF-WAY PERMIT*</td>
<td>CITY OF ANN ARBOR CUSTOMER SERVICE</td>
</tr>
</tbody>
</table>

* NO COST TO CONTRACTOR

### CONTACT INFORMATION

<table>
<thead>
<tr>
<th>PUBLIC UTILITIES</th>
<th>OWNER</th>
<th>CONTACT</th>
</tr>
</thead>
<tbody>
<tr>
<td>CITY OF ANN ARBOR VERTICAL CONTROL STATION. BRASS DISC IN CENTER OF ROUNDABOUT.</td>
<td>MARVIN HARWOOD</td>
<td>734-605-8230</td>
</tr>
<tr>
<td>CITY OF ANN ARBOR VERTICAL CONTROL STATION. BRASS DISC IN CENTER OF ROUNDABOUT.</td>
<td>FRED CROSSER</td>
<td>734-605-8230</td>
</tr>
</tbody>
</table>

### CONSTRUCTION NOTES:

- The City of Ann Arbor, Public Services - Engineering, has the sole responsibility for the construction of the water main project. Any damages to utilities are the Contractor's responsibility to avoid and make repairs as necessary.

### GEDDES ROAD WATER MAIN BENCHMARKS

<table>
<thead>
<tr>
<th>BM #</th>
<th>ELEV</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>1</td>
<td>753.457</td>
<td>SET RR SPIKE IN S. SIDE OF U.P. ON N. SIDE OF GEDDES RD (4TH POLE E. OF HURON PKWY)</td>
</tr>
<tr>
<td>2</td>
<td>755.003</td>
<td>S. RIM ON SAN. MH. IN EAST BOUND LANE.  80'± W. OF CULVERT CROSSING</td>
</tr>
<tr>
<td>3</td>
<td>753.694</td>
<td>SET RR SPIKE IN S. SIDE OF U.P. ON N. SIDE OF GEDDES RD @ CULVERT CROSSING</td>
</tr>
<tr>
<td>4</td>
<td>758.825</td>
<td>S. RIM ON SAN. MH. IN EASTBOUND LANE.  65'± E. OF CULVERT CROSSING</td>
</tr>
<tr>
<td>5</td>
<td>764.635</td>
<td>S. RIM ON SAN. MH. IN EASTBOUND LANE.  FIRST MH W. OF WINDY CREST</td>
</tr>
<tr>
<td>6</td>
<td>777.488</td>
<td>S. RIM ON SAN. MH. IN EASTBOUND LANE @ WINDY CREST</td>
</tr>
<tr>
<td>7</td>
<td>777.062</td>
<td>SET RR SPIKE IN S. SIDE OF U.P. @ NE CORNER OF GEDDES RD &amp; WINDY CREST</td>
</tr>
<tr>
<td>8</td>
<td>786.084</td>
<td>S. RIM ON SAN. MH. IN EASTBOUND LANE.  FIRST MH E. OF WINDY CREST</td>
</tr>
<tr>
<td>9</td>
<td>801.568</td>
<td>FND NAIL IN S. SIDE OF U.P. AT NE CORNER OF GEDDES AND SUMAC LANE</td>
</tr>
<tr>
<td>10</td>
<td>820.756</td>
<td>SET RR SPIKE IN N. SIDE OF U.P. ON S. SIDE OF GEDDES. 300'± W. OF HIGH ORCHARD</td>
</tr>
<tr>
<td>11</td>
<td>816.985</td>
<td>SET RR SPIKE IN S. SIDE OF U.P. ON N. SIDE OF GEDDES. 75'± E. OF DRIVE FOR CHURCH</td>
</tr>
<tr>
<td>12</td>
<td>818.206</td>
<td>SET RR SPIKE IN S. SIDE OF U.P. ON N. SIDE OF GEDDES. 180'± E. OF HSE No. 3805</td>
</tr>
<tr>
<td>13</td>
<td>812.501</td>
<td>TOP OF NE. ANCHOR FOR L.P. ON S. SIDE OF GEDDES.  SECOND L.P. W. OF ROUND-ABOUT AT EARHART.</td>
</tr>
<tr>
<td>14</td>
<td>814.118</td>
<td>CITY OF ANN ARBOR VERTICAL CONTROL STATION. BRASS DISC IN CENTER OF ROUNDABOUT</td>
</tr>
</tbody>
</table>

### CONTACT INFORMATION

- **Private Utilities**  
  - **Owner**  
  - **Contact**  
  - **Public Utilities**  
  - **Owner**  
  - **Contact**
Know what's below. Call before you dig.
Know what's below. Call before you dig.
GEDDES ROAD
EXISTING TYPICAL SECTION

GEDDES ROAD
PROPOSED TYPICAL SECTION

HMA APPLICATION

<table>
<thead>
<tr>
<th>HMA MIX</th>
<th>M Raptors</th>
<th>AWI</th>
<th>Location/Notes</th>
</tr>
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<tbody>
<tr>
<td>5E3</td>
<td>165 LB/YS</td>
<td>1.5</td>
<td>64-28 TOP COURSE</td>
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<tr>
<td>4E3</td>
<td>220 LB/YS</td>
<td>2.0</td>
<td>64-28 LEVELING COURSE</td>
</tr>
<tr>
<td>3C</td>
<td>275 LB/YS</td>
<td>2.5</td>
<td>64-28 BASE COURSE</td>
</tr>
<tr>
<td>4E1</td>
<td>275 LB/YS</td>
<td>2.5</td>
<td>64-28 HMA APPROACH</td>
</tr>
<tr>
<td>BT</td>
<td>275 LB/YS</td>
<td>2.5</td>
<td>- HEAD PATCHING</td>
</tr>
<tr>
<td>SS-1h</td>
<td></td>
<td></td>
<td>INCLUDE IN COST OF HMA ITEM</td>
</tr>
</tbody>
</table>
GEDDES ROAD
EXISTING TYPICAL SECTION
STA 9+23 TO STA 12+87

GEDDES ROAD
PROPOSED TYPICAL SECTION

HMA APPLICATION

<table>
<thead>
<tr>
<th>HMA No.</th>
<th>Rate of Application (LB/SYD)</th>
<th>Binder (MPG)</th>
<th>Location/Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>5E3</td>
<td>165</td>
<td>260</td>
<td>64-28 Top Course</td>
</tr>
<tr>
<td>4E3</td>
<td>220</td>
<td></td>
<td>64-28 Leveling Course</td>
</tr>
<tr>
<td>3C</td>
<td>275</td>
<td></td>
<td>64-28 Base Course</td>
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</tbody>
</table>

HMA APPROACH

<table>
<thead>
<tr>
<th>HMA No.</th>
<th>Rate of Application (LB/SYD)</th>
<th>Binder (MPG)</th>
<th>Location/Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>4E1</td>
<td>275</td>
<td>260</td>
<td>-</td>
</tr>
</tbody>
</table>

HAND PATCHING

<table>
<thead>
<tr>
<th>HMA No.</th>
<th>Rate of Application (LB/SYD)</th>
<th>Binder (MPG)</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Bond Coat</td>
</tr>
</tbody>
</table>

INCLUDE IN COST OF HMA ITEM
Know what's below. Call before you dig.
Know what's below.

Call before you dig.
Know what's below. Call before you dig.

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org

GEDDES ROAD WATER MAIN
TRAFFIC CONTROL - WATER MAIN - PHASE I STAGE I
P.O.B. - STA. 9+00

SEE DETOUR PLAN FOR ADDITIONAL SIGNAGE

WORK ZONE BEGINS

CONSTRUCTION AREA
Know what's below. Call before you dig.
GEDDES RD (66' R.O.W.)

Know what's below. Call before you dig.

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
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PUBLIC SERVICES
301 EAST HURON STREET
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734-794-6410
www.a2gov.org

GEDDES ROAD WATER MAIN
TRAFFIC CONTROL - WATER MAIN - PHASE I STAGE I
STA. 25+00 - P.O.E. END
ROAD WORK

14 OF 42
Know what's below. Call before you dig.
Know what's below.
Call before you dig.

1. Final grade of pavement material for utility installation will be as directed by Engineer.
2. Cover concrete slabs and protection screen when work zone is adjacent to streets as directed by Engineer.
3. Maintain pedestrian access during construction.
4. Cover completing sewer as needed or as directed by Engineer.
5. Ensure completing pavement materials as directed by the Engineer.
6. Construction shall be done in such a manner as to be free of debris at the finish of construction. It is the responsibility of Contractor to provide street sweeping on the property of the Engineer.
Know what's below. Call before you dig.
Know what's below. Call before you dig.
Know what's below. Call before you dig.
Know what's below.
Call before you dig.
Know what's below. Call before you dig.
Know what's below.
Call before you dig.
See Detour Plan for Additional Signage

Know what's below. Call before you dig.

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org

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GEDDES ROAD WATER MAIN
TRAFFIC CONTROL - PAVING - PHASE II STAGE II
P.O.B. - STA. 9+00

WORK ZONE BEGINS
Know what's below. Call before you dig.
Know what's below. Call before you dig.
REMEDIATION

CAUTION
HAZARDOUS OR FLAMMABLE MATERIAL

REMEDIATION

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CAUTION
HAZARDOUS OR FLAMMABLE MATERIAL

GEDDES RD WATER MAIN REMOVALS
STA. 26+00 - STA. 35+00

REMOVAL KEY

<table>
<thead>
<tr>
<th>KEY</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td></td>
</tr>
<tr>
<td>E</td>
<td></td>
</tr>
</tbody>
</table>

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734-794-6410
www.a2gov.org

GEDDES RD (66' R.O.W.)
WATER MAIN STRUCTURE TABLE

<table>
<thead>
<tr>
<th>STRUCTURE</th>
<th>TYPE</th>
<th>STATION</th>
<th>RM</th>
<th>DEPTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>WD</td>
<td>WD</td>
<td>0+00</td>
<td>770.23</td>
<td>5.13</td>
</tr>
<tr>
<td>V1</td>
<td>10&quot; DIPS</td>
<td>0+35</td>
<td>770.17</td>
<td>4.03</td>
</tr>
<tr>
<td>V2</td>
<td>12&quot; DIPS</td>
<td>0+70</td>
<td>780.40</td>
<td>6.14</td>
</tr>
</tbody>
</table>

CAUTION
HAZARDOUS OR FLAMMABLE MATERIAL

Know what's below. Call before you dig.

PLAN: 1" = 20'
PROFILE: 1" = 2'

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
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301 EAST HURON STREET
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734-794-6410
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WINDYCREST DR
GEDDES RD (76' R.O.W.)

WATER MAIN PLAN & PROFILE
STA. 0+00 - STA. 1+75
# Water Main Structure Table

<table>
<thead>
<tr>
<th>Structure</th>
<th>Type</th>
<th>Station</th>
<th>RM</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>HD3</td>
<td></td>
<td>0+00</td>
<td>25</td>
<td>8+00</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0+25</td>
<td>25</td>
<td>8+00</td>
</tr>
</tbody>
</table>

---

**Plan:**
1" = 20'

**Profile:**
1" = 2'

---

**Know what's below. Call before you dig.**
GEDDES RD (103' R.O.W.)

CAUTION
HAZARDOUS
OR FLAMMABLE
MATERIAL

GEDDES ROAD WATER MAIN
WATER MAIN PLAN & PROFILE
STA. 19+50 - STA. 22+50

WATER MAIN STRUCTURE
TABLE

<table>
<thead>
<tr>
<th>STRUC TURE TYPE</th>
<th>STATION</th>
<th>HW</th>
<th>DEPTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>HD6</td>
<td>0+00</td>
<td>817.80</td>
<td>0.00</td>
</tr>
<tr>
<td>HD6</td>
<td>0+30</td>
<td>818.10</td>
<td>0.30</td>
</tr>
</tbody>
</table>

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