KNOW WHAT'S BELOW.

CALL BEFORE YOU DIG.

PROJECT NAME BENCHMARKS

<table>
<thead>
<tr>
<th>BM #</th>
<th>ELEV</th>
<th>DESCRIPTION</th>
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<tr>
<td>1</td>
<td>846.200</td>
<td>39&quot; SPIKE SOUTH SIDE UTILITY POLE AT SOUTH SIDE OF 3RD &amp; MADISON</td>
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<tr>
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<td>866.490</td>
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<td>3</td>
<td>849.330</td>
<td>39&quot; SPIKE SOUTH SIDE Utility POLE AT NORTHWEST CORNER 2ND &amp; MOSLEY</td>
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<tr>
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<td>39&quot; SPIKE SOUTHWEST SIDE UTILITY POLE AT NORTHWEST CORNER S. ASHELY &amp; MOSLEY</td>
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PERMITS REQUIRED TO BE OBTAINED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION.

<table>
<thead>
<tr>
<th>PERMIT ISSUING AUTHORITY</th>
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<tbody>
<tr>
<td>CITY OF ANN ARBOR ENGINEERING</td>
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CONTACT INFORMATION

PRIVATE UTILITIES

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<tr>
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<tbody>
<tr>
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<tr>
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<tr>
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MISCELLANEOUS QUANTITIES

THE FOLLOWING PIECE OF WORK SHALL BE DONE AS THEY APPLY.

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<tr>
<th>Item of Work</th>
<th>Material</th>
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<tr>
<td>1</td>
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<tr>
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WATER MAIN STRUCTURE TABLE

<table>
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<tr>
<th>WATER MAIN STRUCTURE TABLE</th>
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<tbody>
<tr>
<td>12&quot; OWN 8420 846.81 7.49 TYPE B</td>
</tr>
<tr>
<td>12&quot; OWN 8526 825.23 7.12 TYPE B</td>
</tr>
<tr>
<td>12&quot; OWN 8405 866.26 6.76 TYPE B</td>
</tr>
<tr>
<td>12&quot; OWN 8446 849.38 7.30 TYPE B</td>
</tr>
</tbody>
</table>

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WATER MAIN DEALS FOR ELEC. PERMIT PURPOSES ONLY.

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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

WATER MAIN QUANTITIES FOR ELEC. PERMIT PURPOSES ONLY.

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2018-032
THIRD & MOSLEY WATER MAIN
AND RESURFACING PROJECT

EXISTING TYPICAL CROSS SECTION
THIRD STREET
P.O. DRAWING NO. FG-14444-46
NOT TO SCALE

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</tbody>
</table>

* ELEVATIONS ARE RELATIVE TO CROWN ELEVATION
Know what's below.
Call before you dig.
PROPOSED TYPICAL CROSS SECTION

THIRD STREET

*PROPOSED ORDERS ARE RELATING TO CROWN ELEVATION*
Know what's below.
Call before you dig.
TREE PROTECTION DETAIL

TRENCH DETAIL FOR UNDER DRAIN

CURB AND GUTTER, CONC DET SD-R-1, SPECIAL

DETAIL FOR CURB REPLACEMENT AREAS

PLAN: NTS

Know what's below. Call before you dig.
SIDEWALK CONTROL JOINT LAYOUT

EXPANSION JOINT REPLACEMENT

1. VERTICAL SURFACES:
   PROVIDE MANUFACTURER'S STANDARD, NON-MODIFIED, TWO-COMPONENT, POLYURETHANE-BASED, ELASTOMERIC SEALANT; COMPLYING WITH EITHER ASTM C 920 TYPE M CLASS 25, OR FS-TT-S-00227E CLASS A; NON-SAG GRADE/TYPE.

2. HORIZONTAL SURFACES:
   PROVIDE MANUFACTURER'S STANDARD, NON-MODIFIED, TWO-COMPONENT, POLYURETHANE-BASED, ELASTOMERIC SEALANT; COMPLYING WITH EITHER ASTM C 920 TYPE M CLASS 25, OR FS-TT-S-00227E CLASS A; SELF-LEVELING GRADE/TYPE.

1. SET UP TIME FOR SEALANT ON WALKING SURFACES SHALL BE NO LONGER THAN 8 HOURS.

2. PROVIDE PRODUCT OF ONE OF THE FOLLOWING MANUFACTURERS:
   a. CONTECH/SONNEBORN
   b. MAMECO INTERNATIONAL
   c. W.R. MEADOWS, INC.
   d. PECORA CORP.
   e. PRODUCTS RESEARCH & CHEMICAL CORP.
   f. SIKA CHEMICAL CORP.
   g. TREMCO, INC.
   h. TOCH/CARBOLINE

3. DO NOT ALLOW SEALANTS TO OVERFLOW OR SPILL ONTO ADJOINING SURFACES. REMOVE EXCESS AND SPILLAGE OF SEALANTS PROMPTLY.

4. SEALED ZIP STRIPS ARE ACCEPTABLE.

EXPANSION JOINT LAYOUT

1/4" TOOLED RADIUS

VERTICAL JOINT SEALANT

EXPANSION JOINT MATERIAL

NOTES: BACKER ROD AND SEALANT PER MANUFACTURER'S RECOMMENDATIONS

VERTICAL SURFACES:
PROVIDE MANUFACTURER'S STANDARD, NON-MODIFIED, TWO-OR-MORE-PART, POLY-SULFIDE-BASED, ELASTOMERIC SEALANT; COMPLYING WITH EITHER ASTM C 920 TYPE M CLASS 25, OR FS-TT-S-00227E CLASS A; NON-SAG GRADE/TYPE.

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EXPANSION JOINT LAYOUT

1/4" TOOLED RADIUS

VERTICAL JOINT SEALANT

EXPANSION JOINT MATERIAL

NOTES: BACKER ROD AND SEALANT PER MANUFACTURER'S RECOMMENDATIONS

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NOTE: BACKER ROD AND SEALANT PER MANUFACTURER'S RECOMMENDATIONS

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EXPANSION JOINT LAYOUT

1/4" TOOLED RADIUS

VERTICAL JOINT SEALANT

EXPANSION JOINT MATERIAL

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NOTE: BACKER ROD AND SEALANT PER MANUFACTURER'S RECOMMENDATIONS
PLAN: NTS

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
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734-794-6410
www.a2gov.org

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2018-032

THIRD & MOSLEY WATER MAIN AND RESURFACING PROJECT

MISCELLANEOUS DETAILS

SECTION B-B

SECTION A-A

SECTION 8-8

SECTION VIEW

SECTION VIEW

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

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THIRD & MOSLEY WATER MAIN AND RESURFACING PROJECT

SOIL EROSION AND SEDIMENTATION CONTROL NOTES AND DETAILS

INSTALLATION DETAIL
SIDE VIEW INSTALLED

SILTSACK DETAIL
REGULAR FLOW SILTSACK
HI-FLOW SILTSACK
OIL-ABSORBANT SILTSACK

MULCH BLANKET DETAIL
SILT FENCE  SD-EC-3

PLAN VIEW

SECTION A-A
SECTION B-B
Know what's below. Call before you dig.
WATER MAIN STRUCTURE TABLE

<table>
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<tr>
<th>STRUCTURAL TYPE</th>
<th>STATEMENT</th>
<th>FM</th>
<th>TELEMETRY CASTING</th>
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<tr>
<td>T.S. 4-0</td>
<td>616, 537, 88, 190</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

WATER MAIN CONSTRUCTION NOTES

1. USE NON-IONIZATION CONDUCTIVE WATER FOR CLEANING, DISINFECTION, AND DISINFECTION OF WATER MAINS OR OTHER WATER MAINS.
2. CARRY OR PROTECT YOUR WATER MAINS OR OTHER WATER MAINS FROM DAMAGE DURING CONSTRUCTION.
3. KEEP ALL WATER MAINS OR OTHER WATER MAINS CLEAN AND FREE FROM INFLUENCE.
4. PROVIDE THE REQUIRED PROTECTION TO PREVENT DAMAGE TO WATER MAINS OR OTHER WATER MAINS DURING CONSTRUCTION.
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2018-032
THIRD & MOSLEY WATER MAIN
AND RESURFACING PROJECT
WATER MAIN PLAN AND PROFILE - MOSLEY STREET STA 5+50 TO 9+00

MOSLEY STREET
SECOND STREET
THIRD ST-CL
845
850
855
860
865
870
0+25
1+00
2+00
3+00
4+00
4+75
5
6
7
BM#2
ELEV 866.49
BM#1
ELEV 846.30
PLAN: 1" = 20'
PROFILE: 1" = 4'

Know what's below. Call before you dig.
Know what's below.
Call before you dig.
Know what's below. Call before you dig.
STAGE 1: WEST SIDE OF INTERSECTION CLOSED
ROADWORK

Know what's below. Call before you dig.

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PUBLIC SERVICES
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STAGE 2: EAST SIDE OF INTERSECTION CLOSED
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2018-032

THIRD & MOSLEY WATER MAIN AND RESURFACING PROJECT

STAGE 2 PEDESTRIAN DETOUR

MOSLEY STREET
KOCH AVE
HILL STREET
ADAMS STREET
MADISON STREET

SIDEWALK CLOSED
AHEAD
CROSS HERE
SIDEWALK CLOSED
AHEAD
CROSS HERE
SIDEWALK CLOSED
AHEAD
CROSS HERE

STAGE 3 PEDESTRIAN DETOUR

MADISON STREET
MOSLEY STREET
KOCH AVE
HILL STREET
ADAMS STREET
MADISON STREET

NOTE:
"NORMAL ROUTE" STEPS ARE TO BE LENGTHENED AT THE DESIGNER'S DISCRETION. SEE SHEETS 24 & 25
GENERAL NOTES
WHEN CLOSING OR LIGITATING CROSSWALKS, THE CONTRACTOR SHALL PROVIDE OBLIGATORY TEMPORARY TRAFFIC CONTROL DEVICES AND INCLUDE ACCESSIBILITY FEATURES.

THE PEDESTRIAN TRAFFIC CONTROL CROSSWALKS SHALL BE LOCATED AS PREVIOUSLY DESCRIBED IN THE CONTRACT DOCUMENTS AND COORDINATED WITH THE INSPECTOR. THE CONTRACTOR SHALL INSTALL AND CONDUCT THE WORK WITH THE INSPECTOR. A MINIMUM OF 12 INCH DEPTH INCLUDING ACCESSIBILITY MEASURES PRIOR TO THE BEGINNING OF THE WORK THAT REQUIRE A VEHICULAR CLOSURE.

POST MOUNTED CONCRETE BARRIERS NEAR TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

WHEN THE INSPECTOR DETERMINES THAT THE CONTRACTOR'S PROPOSAL FOR PEDESTRIAN TRAFFIC CONTROL DEVICES SHALL NOT BE PAID FOR SEPARATELY, BUT PROVISION FOR PEDESTRIAN TRAFFIC CONTROL DEVICES SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK "MINOR TRAFFIC DEVICES.

SHOULD MAINTAIN PEDESTRIAN THROUGH MOVEMENTS FROM ONE END OF THE CONSTRUCTION AREA TO THE OTHER, ON AT LEAST ONE SIDE OF THE STREET DURING CONSTRUCTION. ANY SIDEWALK CLOSURES SHALL MEET THE REQUIREMENTS OF THE CITY OF ANN ARBOR. THE CONTRACTOR SHALL SCHEDULE AND CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

THE PEDESTRIAN TRAFFIC SIGNALS CONTROLLING CROSSWALKS SHALL BE COVERED FROM EXISTING PEDESTRIAN FACILITIES.

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, THE CONTRACTOR SHALL PROVIDE THE LOCATION AND DETAILS OF TEMPORARY CONSTRUCTION SIGNING, PHASING AND SCHEDULE AND THE SPECIFIC METHODS OF MAINTAINING SAFE ACCESSIBILITY SHALL NOT BE DISPLAYED IF PERSONS WITH DISABILITIES SHOULD NOT USE THE PEDESTRIAN DETOUR IS NON-COMPLIANT TO TPAR STANDARDS.

GENERAL NOTES
WHEN CLOSING OR LIGITATING CROSSWALKS, THE CONTRACTOR SHALL PROVIDE OBLIGATORY TEMPORARY TRAFFIC CONTROL DEVICES AND INCLUDE ACCESSIBILITY FEATURES.

THE PEDESTRIAN TRAFFIC SIGNALS CONTROLLING CROSSWALKS SHALL BE COVERED FROM EXISTING PEDESTRIAN FACILITIES.

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THE CONTRACTOR SHALL NOT STORE OR PLACE ANY CONSTRUCTION MATERIALS, EQUIPMENT OR SIGNS IN THE PEDESTRIAN PATH OF TRAVEL.

THE PEDESTRIAN TRAFFIC SIGNALS CONTROLLING CROSSWALKS SHALL BE COVERED FROM EXISTING PEDESTRIAN FACILITIES.

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**TOTAL:** 228431