Know what's below. Call before you dig.

**Permits Required to Be Obtained by the Contractor Prior to the Beginning of Construction.**

**Permit Issuing Authority**

**Private Utilities**

<table>
<thead>
<tr>
<th>OWNER</th>
<th>CONTACT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</table>

**Contact Information**

**Public Utilities**

<table>
<thead>
<tr>
<th>OWNER</th>
<th>CONTACT</th>
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**Newport Rd - Bird Rd Benchmarks**

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<tr>
<th>BM #</th>
<th>ELEV</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>795.52</td>
<td>EASTERLY FLANGE BOLT ON HYDRANT @ NE CORNER OF NEWPORT AND BIRD RD</td>
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**North Main Street Benchmarks**

<table>
<thead>
<tr>
<th>BM #</th>
<th>ELEV</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>41</td>
<td>785.85</td>
<td>PEAK IN SOUTH SIDE OF ROAD ON WEST SIDE OF 13TH ST. SEE THE NORTH PROPERTY LINE</td>
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</tbody>
</table>
**EXISTING LEGEND**

<table>
<thead>
<tr>
<th>Legend Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
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**PROPOSED LEGEND**

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</tr>
<tr>
<td>5</td>
<td>Legend Item</td>
</tr>
</tbody>
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---

Know what's below. Call before you dig.
NORTH MAIN STREET
PROPOSED TYPICAL SECTION
NEWPORT ROAD
PROPOSED TYPICAL SECTION

BIRD ROAD
PROPOSED TYPICAL SECTION

HMA APPLICATION ESTIMATE

<table>
<thead>
<tr>
<th>Item</th>
<th>Mix</th>
<th>Rate (lb/syd)</th>
<th>Unit</th>
<th>Avg (inches)</th>
<th>Notes</th>
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<tbody>
<tr>
<td>HMA PAVEMENT</td>
<td>TOP</td>
<td>275</td>
<td></td>
<td>2.5</td>
<td>220 (TOP)</td>
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<td></td>
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<td></td>
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<td>PG 64-28</td>
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<tr>
<td>HMA PAVEMENT</td>
<td>LEVELING</td>
<td>275</td>
<td></td>
<td>2.5</td>
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<td></td>
<td>PG 64-28</td>
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<tr>
<td>HAND PATCHING</td>
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<td>0 - 440</td>
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<td>0.05 - 0.15</td>
<td>-</td>
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<tr>
<td>ASPHALT EMULSION</td>
<td>SS-1h</td>
<td>0.05 - 0.15</td>
<td></td>
<td>-</td>
<td>INCLUDE IN COST OF HMA ITEM</td>
</tr>
</tbody>
</table>
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

WATER MAIN DETAILS

FIRE HYDRANT ASSEMBLY

CONCRETE UTILITY SADDLE

POLYETHYLENE ENCASEMENT
(DRY INSTALLATION)

POLYETHYLENE ENCASEMENT
(WET INSTALLATION)

THRUST BLOCK SD-W-2

GATE WELL FOR MAIN 16" & SMALLER SD-W-3

MANHOLE CASTING ADJUSTMENT SD-GU-6

FIRE HYDRANT ASSEMBLY

STRUCTURE PLATE SD-GU-8

WATER VALVE BOX ADJUSTMENT

POLYETHYLENE ENCASEMENT
(WET INSTALLATION)
Know what's below. Call before you dig.
NOTE: ONLY MAY BE USED ON ROADWAY WITH POSTED SPEED OF 45 MPH OR LESS.

**BYPASS ON ADJACENT AVAILABLE ROADWAY**

**BYPASS TYPE A**

- Provide temporary walkway surface
- 4’ minimum width
- PeDESTRIAN CHANNELIZERS

**SIDEWALK BYPASS USING PARKING OR SHOULDER ON LOW SPEED ROADWAY**

**BYPASS TYPE B**

- Temporary truncated domes required if crossing a minor road or commercial driveway
- Minimum 5’
- 4’ minimum width
- Pedestrian channelizers
- Minor road or driveway

**SIDEWALK BYPASS USING SHOULDER ON PARKING LANE ON HIGH SPEED ROADWAY**

**BYPASS TYPE C**

- Temporary truncated domes required if crossing a minor road or commercial driveway
- Minimum 5’
- 4’ minimum width
- Pedestrian channelizers

**GENERAL NOTES**

- When closing or redirecting crossings or segments of crossings, the contractor shall provide intermittent temporary traffic control devices and road closure devices that display the following information:
  - Temporary Traffic Control Devices are required as necessary.
  - Temporary Traffic Control Devices are required when the roadway or sidewalk surface is being used for temporary construction or maintenance activities.
  - Temporary Traffic Control Devices are required when the roadway or sidewalk surface is not in use.

- Temporary Traffic Control Devices shall be removed or relocated as necessary to provide the maximum disruption to pedestrians.

- Temporary Traffic Control Devices shall be delineated with flags or other engineer-approved devices.

- Post-mounted signs located adjacent to a sidewalk shall have a 7-foot minimum clearance between the bottom of the sign to the sidewalk surface.

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- Temporary Traffic Control Devices shall be delineated with flags or other engineer-approved devices.
CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.
SELECTED MATERIALS FOR THE RAMP SHALL BE PLACED HANDEDLY.
CURB RAMPS OR LANDINGS PLACED AWAY FROM A CURB SHOULDN'T BE CONSIDERED CURB RAMPS OR LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURN).

PROTECTIVE EDGING SHALL BE 2.5" MIN. HEIGHT ABOVE THE RAMP. PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDINGS HAVE A VERTICAL DROP OF 6" OR GREATER.

DETECTABLE EDGING SHALL BE CONSIDERED ANYTIME A HANDRAIL IS REQUIRED, AND ANYTIME THE PATH CHANGES DIRECTION. THIS INCLUDES A TURN BEHIND THE RAMP FOR PARTIAL OR TOTAL INSTALLATION. DETECTABLE EDGING SHALL BE 6" MIN. HEIGHT ABOVE THE RAMP SURFACE. CONTRASTING COLOR SHALL BE PLACED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURN).

CURB RAMPS AND LANDINGS SHALL HAVE A 2% MAX. CROSS SLOPE.
CLEAR SPACE OF 48" X 48" MIN. SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP. THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A CONTRASTING COLOR, 2" TO 4" WIDE EDGE MARKING. THE MARKING IS OPTIONAL WHERE COLOR CONTRASTING EDGING IS USED.

WATER FLOW IN THE GUTTER SYSTEM SHALL NOT BE IMPEDED.
LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 1/2" WIDTH. CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED 1/2" LATERALLY. EDGES SHALL BE VERTICAL UP TO 1/4" MAX AND BEVELED AT 1:2 BETWEEN 1/4" AND 1/2" HEIGHT.

TEMPORARY CURB RAMP
PARALLEL TO CURB

SHOWN WITH PROTECTIVE EDGE

SHOWN WITH SIDE APRON

TEMPORARY CURB RAMP
PERPENDICULAR TO CURB

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

- 4' MINIMUM
- 5' DESIRABLE

TEMPORARY WALKWAY SURFACE

- 2% MAX. CROSS SLOPE
- 2" MAX.

PEDESTRIAN CHANNELIZER

- 0.5 INCH MAXIMUM
- 1 INCH MAXIMUM

PEDESTRIAN CHANNELIZER USING A BARRIER
(MINIMUM REQUIREMENTS)

- 2" MAX.
- 12" MIN.

DETECTABLE EDGE SHALL BE CONTINUOUS AND A MINIMUM OF 6 INCHES HIGH ABOVE THE WALKWAY SURFACE

GENERAL NOTES

- Pedestrian devices used to provide positive protection for pedestrians or workers shall meet the minimum requirements appropriate for the barrier application.

- Pedestrian devices shall be placed consistently across the entire width of the walkway surface.

SPECIFIC NOTES

- Any permanent hazards in the walkway/road are detectable edge shall be located 2' from the edge, any support on the front of the device shall not extend into the black minimum walkway clear space and shall not exceed 0.5 inches in height above the walkway surface.

- Sidewalk devices shall be continuous and a minimum of 6 inches in height above the walkway surface.

- Detectable edges shall be 2 inches high from the walkway. A 3.5 feet or downward from the walkway surface. All devices shall be made of sand or rubberized, and patterns (bolts) shall be removed to ensure safety to vehicles, as well as the public.

- All devices used to channelize pedestrian flow should be interconnected such that gaps do not exceed 0.5 inches in height above the walkway surface.

- All devices shall be firmly secured, and all restraints, guards, and barriers are not allowed.

- Outfits' edges channeling devices for pedestrians shall be 6 inches in height or greater.

WRITE A BAR

TYPICAL AUDIBLE MESSAGE DEVICE LOCATION WHEN USED

SIDEWALK BARRICADE

200' MAX. SPACING FROM LANE PASSING SPACE

200' MAX. SPACING FROM LANE PASSING SPACE

NARROW TEMPORARY PEDESTRIAN ACCESS ROUTE PASSING DETAIL

GENERAL NOTES

- Call before you dig.

- Know what's below.

- Info from City of Ann Arbor - Public Services - Engineering.

- City of Ann Arbor - Public Services - Engineering.

- 301 East Huron Street.

- P.O. Box 8647.

- Ann Arbor, MI 48107-8647.

- 734-794-6410.

- www.a2gov.org.
Know what's below. Call before you dig.
Know what's below. Call before you dig.
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1" = 40'

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2021 MISC. UTILITIES PROJECT
N MAIN ST TRAFFIC CONTROL - PH I
STA. 36+00 - STA. 46+80

2021 OF 56
Know what's below. Call before you dig.

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

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PUBLIC SERVICES
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734-794-6410
www.a2gov.org

2021 MISC. UTILITIES PROJECT
N MAIN ST TRAFFIC CONTROL - PH II
STA. 18+00 - 36+00

WORK ZONE BEGINS

1. Final grade of pavement material for utility installation will be as indicated on drawings.
2. Undeveloped gravel and concrete work within work zone to be maintained open through as outlined in drawings.
3. Maintain pedestrian access during construction.
4. Control traffic flow as needed or as directed by engineer.
5. Provide cross-traffic markings as directed by the engineer.
6. Construction work will include controlled traffic work in an area for the safety of both the public and the crew. All equipment will be provided by the contractor.
Know what's below. Call before you dig.
Know what's below. Call before you dig.
### STORM SEWER STRUCTURE TABLE

<table>
<thead>
<tr>
<th>Structure Number</th>
<th>Utility Station</th>
<th>Invert Elevation (Size &amp; Direction)</th>
<th>Top of Casting Elevation</th>
<th>Depth (Pav)</th>
<th>Size</th>
<th>Application/Construction</th>
<th>Gulp</th>
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</thead>
<tbody>
<tr>
<td>R103</td>
<td>54x65</td>
<td>90° E 783.53 90° N 783.53 18° W 783.53</td>
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<td>11.62</td>
<td>84”</td>
<td>Storm Sewer (Cover B)</td>
<td>2 Ft</td>
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<td>R130</td>
<td>74x45</td>
<td>90° E 784.55 90° N 784.55 18° W 784.55</td>
<td>796.41</td>
<td>15.45</td>
<td>72”</td>
<td>Storm Sewer (Cover B)</td>
<td>2 Ft</td>
</tr>
</tbody>
</table>

**CAUTION**

HAZARDOUS OR FLAMMABLE MATERIAL
Know what's below. Call before you dig.

CONSTRUCTION KEY

| Description | """

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PUBLIC SERVICES
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ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org

2021 MISC. UTILITIES PROJECT
N MAIN ST PROPOSED ROAD AND PAVEMENT MARKINGS

RAILROAD
N. MAIN STREET
LAKESHORE DR. (PVT)

PLAN:
1" = 20'
Know what's below. Call before you dig.
 plan: 1" = 300'

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

2021 Misc. Utilities Project

W Liberty St Detour

Detour
Detour
Detour
Detour
Detour

Westbound W Liberty St

Eastbound W Liberty St
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

CONSTRUCTION AREA

W LIBERTY ST

EIGHTH ST

EIGHTH ST

CONSTRUCTION AREA

KEEPER CT (Private)

1009x1164

CONSTRUCTION AREA

W LIBERTY ST

KEPPLER CT (Private)

S SEVENTH ST

CONSTRUCTION AREA

KEPPLER CT (Private)

W LIBERTY ST

CONSTRUCTION AREA

KEPPLER CT (Private)

W LIBERTY ST

CONSTRUCTION AREA

KEPPLER CT (Private)

W LIBERTY ST

CONSTRUCTION AREA

719x998

CONSTRUCTION AREA

EIGHTH ST

KEPPLER CT (Private)

W LIBERTY ST

CONSTRUCTION AREA

KEPPLER CT (Private)

W LIBERTY ST

CONSTRUCTION AREA

KEPPLER CT (Private)

W LIBERTY ST

CONSTRUCTION AREA

KEPPLER CT (Private)

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KEPPLER CT (Private)

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CONSTRUCTION AREA

KEPPLER CT (Private)

W LIBERTY ST

CONSTRUCTION AREA

KEPPLER CT (Private)
Know what's below. Call before you dig.
Know what's below. Call before you dig.
Call before you dig.

CAUTION
HAZARDOUS OR FLAMMABLE MATERIAL

CAUTION
CRITICAL UTILITY

REMOVAL KEY

<table>
<thead>
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<tr>
<td>2</td>
<td>HEATER</td>
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<tr>
<td>3</td>
<td>DIAMOND</td>
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<td>4</td>
<td>TUBE</td>
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<td>TUBE</td>
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<tr>
<td>11</td>
<td>MAIN</td>
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</table>

City of Ann Arbor - Public Services - Engineering

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

2021 MISC UTILITIES PROJECT
W LIBERTY ST - CREST AVE REMOVALS
W LIBERTY ST STA. 13+50 - P.O.E.
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.
CAUTION
HAZARDOUS
OR FLAMMABLE
MATERIAL
CAUTION
HAZARDOUS OR FLAMMABLE MATERIAL

CAUTION
CRITICAL UTILITY

CAUTION
CRITICAL UTILITY

CAUTION
HAZARDOUS OR FLAMMABLE MATERIAL

CAUTION
HAZARDOUS OR FLAMMABLE MATERIAL

WATER MAIN STRUCTURE TABLE

<table>
<thead>
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<th>TYPE</th>
<th>STATION</th>
<th>HN</th>
<th>DEPTH</th>
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<td>V2</td>
<td>12&quot; OW</td>
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<td>848.22</td>
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</table>

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

CONSTRUCTION KEY

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<th>KEY</th>
<th>DESCRIPTION</th>
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<td>DO-M</td>
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<td>DC-6</td>
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<td>SW-4</td>
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<td>SWR-6</td>
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<td>ISW-CB</td>
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301 EAST HURON STREET
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734-794-6410
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2021 MISC. UTILITIES PROJECT
W LIBERTY ST - CREST AVE PROPOSED ROAD
CREST AVE STA. 3+00 - P.O.E. & CREST - W. HURON INTERSECTION
WLIBERTY ST

CREST AVE

BEMIDJI DR

EBERWHITE BLVD

W LIBERTY ST

1" = 20'

Know what's below.
Call before you dig.