CONSTRUCTION NOTES:

1. The materials and workmanship used must be approved by the City of Ann Arbor. Any variation from the specifications submitted at the time of proposal will be handled by the City of Ann Arbor in accordance with the City's procedures.

2. The Contractor is responsible for the safekeeping of all materials and equipment while on the property.

3. The Contractor must comply with all State and Federal regulations regarding the use of explosives or similar materials.

4. The Contractor must notify the City of Ann Arbor of any changes to the original plans.

5. The Contractor is responsible for the removal of all debris and materials from the site upon completion of the project.

6. The Contractor must provide a site superintendent for the duration of the project.

7. The Contractor must provide a site foreman for the duration of the project.

8. The Contractor must provide all necessary permits for the project.

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105. The Contractor must provide all necessary insurance for the project.
Know what's below. Call before you dig.
BARTON DRIVE IMPROVEMENTS

EXISTING TYPICAL ROAD SECTIONS

BARTON DRIVE
EXISTING TYPICAL SECTION

BARTON DRIVE
EXISTING TYPICAL SECTION

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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

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5 OF 61
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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

STANDARD MANHOLE (TYPE I)

SINGLE INLET STRUCTURE SD-S-10

INLET-JUNCTION CHAMBER SD-S-9

AGGREGATE BASE COURSE
SAND SUB-BASE

UTILITY TRENCH-TYPE I SD-TD-1 (MODIFIED)
(UNDER HMA PAVEMENT)

TRENCH DETAIL FOR UNDER DRAIN
(UNDER HMA PAVEMENT)
MINIMIZE DISRUPTION TO PEDESTRIANS TO THE MAXIMUM EXTENT FEASIBLE BY PROVIDING ENOUGH TO CREATE A HAZARD, THE TRAFFIC CONTROL DEVICES SHALL BE DELINEATED WITH POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM PROVIDE A SMOOTH, CONTINUOUS, HARD SURFACE THROUGH THE LENGTH OF THE APR. MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK, AS NECESSARY, TO PROVIDE DETECTABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES.

GENERAL NOTES
2. IF THE TPAR IS ADJACENT TO MOVING TRAFFIC, CONSTRUCTION EQUIPMENT OR SIGNS IN THE PEDESTRIAN PATH OF TRAVEL.
4. PEDESTRIAN CHANNELIZATION DEVICES THAT MEET THE REQUIREMENTS OF NCHRP 350 AND THE MMUTCD.
5. PEDESTRIAN TEMPORARY TRAFFIC CONTROL PLAN FOR REVIEW AND WRITTEN APPROVAL BY THE ENGINEER A MINIMUM OF THREE WEEKS BEFORE SIDEWALK CLOSURES.
6. WORK SHALL NOT BEGIN UNTIL THIS PLAN IS APPROVED BY THE PROJECT SUPERVISOR IN WRITING.
8. PEDESTRIAN THROUGH MOVEMENTS FROM BUILDINGS, RESIDENCES AND COMMERCIAL PROPERTIES AT ALL TIMES. THIS MAY REQUIRE THE USE OF A TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR).
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GENERAL NOTES

WHEN CLOSING ACCESS TO PEDESTRIANS TO THE MAXIMUM EXTENT FEASIBLE BY PROVIDING PEDESTRIAN CHANNELIZING DEVICES SHALL BE DELINEATED WITH FLAGS OR OTHER ENGINEER-APPROVED DEVICES AT NO COST TO THE CONTRACTOR. POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

NOTE: MAY ONLY BE USED ON ROADWAY WITH POSTED SPEED OF 45 MPH OR LESS.

SPECIFIC NOTES

1. TEMPORARY CHANNELIZING DEVICES WITH DETECTABLE WARNINGS.

2. TEMPORARY CURB RAMPS WITH DETECTABLE WARNINGS.

3. TEMPORARY SPECIAL OR SHORT-TERM LANE, OR MINOR ROADWAY LANE, OR COMMERCIAL DRIVEWAY.

4. TEMPORARY TRUNCATED DOMES, CHANNELIZERS, OR BARRIERS WITH TAPER AND ATTENUATION.

5. TEMPORARY TRUNCATED DOMES REQUIRED IF CROSSING A MINOR ROAD OR COMMERCIAL DRIVEWAY.

6. TEMPORARY TRUNCATED DOMES REQUIRED IF CROSSING A MINOR ROAD OR COMMERCIAL DRIVEWAY.

7. TEMPORARY TRUNCATED DOMES REQUIRED IF CROSSING A MINOR ROAD OR COMMERCIAL DRIVEWAY.

LEGEND

- Temporary Pedestrian Surface
- Work Area
- Pedestrian Channelization Device
- Barrier
- Sensing Equipment
- Direction of Traffic
- Traffic Control Device
- Project Contact Number

See injection for guidance on placement and usage of barrier.

APPLICATIONS

BYPASS ON ADJACENT AVAILABLE
BYPASS TYPE A

SIDEWALK BYPASS USING PARKING OR SHOULDER ON LOW SPEED ROADWAY
BYPASS TYPE B

SIDEWALK BYPASS USING SHOULDER OR PARKING LANE ON HIGH SPEED ROADWAY
BYPASS TYPE C

CALL BEFORE YOU DIG

NOTE: MAY ONLY BE USED ON ROADWAY WITH POSTED SPEED OF 45 MPH OR LESS.
CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE. PROTECTIVE EDGING TO A HEIGHT OF 2.5" MUST BE MAINTAINED. THE RAMP SHALL BE PLACED VERTICALLY.

CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 7" OR MORE FOR A SIDE SLOPES GREATER THAN 1:6, PROTECTIVE EDGE SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 7" OR MORE.

DETECTABLE EDGING ANYTIME A HANDRAIL IS REQUIRED, AND ANYTIME THE PATH CHANGES DIRECTION. THIS INCLUDES A TURN ONTO THE RAMP FROM THE PATH. DETECTABLE EDGING SHOULD BE MINIMUM 1.2" TO 2" HICKORY, A CONTRASTING COLOR, OR A DEFORMED SURFACE WHERE THE WALKWAY CHANGES DIRECTION (TURN).

CURB RAMPS AND LANDING PLATFORMS HAVE A VERTICAL DROP OF 6" OR MORE.

DETECTABLE EDGING ANYTIME A HANDRAIL IS REQUIRED, AND ANYTIME THE PATH CHANGES DIRECTION. THIS INCLUDES A TURN ONTO THE RAMP FROM THE PATH. DETECTABLE EDGING SHOULD BE MINIMUM 0.75" TO 1.5" HICKORY, A CONTRASTING COLOR, OR A DEFORMED SURFACE 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 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".

LEADING EDGE

EDGE TREATMENT

CROSS SLOPE 2% MAX.

EDGE TREATMENT

CROSS SLOPE 2% MAX.

EDGE TREATMENT

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EDGE TREATMENT

CROSS SLOPE 2% MAX.
TEMPORARY PEDESTRIAN ACCESS

5' MINIMUM
5' DESIRABLE

TEMPORARY WALKWAY SURFACE

2% MAX. CROSS SLOPE

PEDESTRIAN CHANNELIZER

0.5 INCH MAXIMUM

LEADING EDGE

0.25 INCH MAXIMUM

PEDESTRIAN CHANNELIZER USING A BARRIER (MINIMUM REQUIREMENTS)

DETECTABLE EDGE

2" MAX.

12" MIN.

PEDESTRIAN CHANNELIZER (MINIMUM REQUIREMENTS)

HANDRAILING EDGE

TYPICAL AUDIBLE MESSAGE DEVICE LOCATION WHEN USED

SIDEWALK CLOSED

3" M.K.

2" MAX.

WALKWAY SURFACE

NARROW TEMPORARY PEDESTRIAN ACCESS ROUTE PASSING DETAIL

200' MAX. SPACING FROM LAST PASSING SPACE

200' MAX. SPACING FROM LAST PASSING SPACE

GENERAL NOTES

- Use temporary devices only where permanent or durable solutions are not practical.
- Ensure devices are installed in accordance with local codes.
- Devices shall be placed continuously across the entire width of the walkway surface.

SPECIFIC NOTES

1. Devices shall be installed to ensure a minimum of 2 inches above the walkway surface.
2. Devices shall be made of durable materials that are compatible with the walkway surface.
3. Devices shall be designed to allow for easy installation and removal.
4. Devices shall not block water drainage from the walkway.
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.
Know what's below. Call before you dig.

TRAFFIC CONTROL - PHASE II
STA. 12+00 - STA. 30+00
SEE DETOUR PLAN FOR ADDITIONAL SIGNAGE
PLAN: 1" = 40'

Know what's below. Call before you dig.
Know what's below. Call before you dig.
TRAFFIC CONTROL - PHASE IV
STA. 12+00 - STA. 30+00
SEE DETOUR PLAN FOR ADDITIONAL SIGNAGE

NOTES:
1. PIGE, LEFT OR RIGHT EDGE FOR UTILITY INSTALLATION WILL BE AS DIRECTED BY ENGINEER
2. UNLESS OTHERWISE NOTED, WORK ZONE TO BE MAINTAINED IN THE MANNER AS DIRECTED BY ENGINEER
3. MAINTAIN PEDESTRIAN ACCESS DURING CONSTRUCTION
4. OTHER CONTROL DEVICES AS NEEDED OR AS DIRECTED BY ENGINEER
5. NO CLEANING OR PAINTING WORK DURING THE MILEAGE
6. CONTRACTOR SHALL PLACE WORK AREA CONSIDERATION CONSIDERATION SUCH A MANNER AS TO NOT HURT TO THE WELFARE OF CONSTRUCTION IN LOCATOR'S MILE AGE OF WORK AREAS, MILEAGE TO BE CHANGED BY THE ENGINEER.
Know what's below. Call before you dig.
PLAN: 1" = 20'

Know what's below. Call before you dig.
BARTON DR (66' R.O.W.)

CHANDLER RD (50' R.O.W.)

697 701 705

694 700

1827

704

BARTON DR (66' R.O.W.)

PONTIAC ST (66' R.O.W.)

709 715

708

1827

15 18 1 6 8 1 DE TR IP RO CN AG HR BY TIC

PROPOSED REMOVALS
STA. 24+50 - STA. 30+50

REMOVAL KEY

DESCRIPTION

CAUTION HAZARDOUS OR FLAMMABLE MATERIAL

CAUTION HAZARDOUS OR FLAMMABLE MATERIAL

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CAUTION HAZARDOUS OR FLAMMABLE MATERIAL

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CAUTION HAZARDOUS OR FLAMMABLE MATERIAL
CAUTION
HAZARDOUS
OR FLAMMABLE
MATERIAL

PLAN:
1" = 20'

PROFILE: 1" = 2'

Know what's below. Call before you dig.

WATER MAIN STRUCTURE TABLE

<table>
<thead>
<tr>
<th>STRUCTURE</th>
<th>TYPE</th>
<th>ALIGNMENT</th>
<th>DTTL</th>
<th>ELEV</th>
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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

BARTON DRIVE IMPROVEMENTS
PROPOSED WATER MAIN
STA. 4+00 - STA. 8+00
CAUTION
HAZARDOUS OR FLAMMABLE MATERIAL

BARTON DR (66' R.O.W.)
PONTIAC ST (66' R.O.W.)

PR WATER

Know what's below. Call before you dig.

WATER MAIN STRUCTURE TABLE

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BARTON DRIVE IMPROVEMENTS
PROPOSED WATER MAIN
STA. 8+00 - STA. 10+16
### Storm Sewer Structure Table

<table>
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<tr>
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<th>Utility Station</th>
<th>M.W. Elevation Size &amp; Direction</th>
<th>Top of Casting Elevation</th>
<th>Depth (Feet)</th>
<th>Size</th>
<th>Application/Construction</th>
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<tr>
<td>8+118</td>
<td>2435</td>
<td>12' # 220.00</td>
<td>841.31</td>
<td>1.30</td>
<td>6&quot;</td>
<td>Sewer W1 (Cover R)</td>
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<td>2427</td>
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<td>1.30</td>
<td>6&quot;</td>
<td>Sewer W1 (Cover R)</td>
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<tr>
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<tr>
<td>8+117</td>
<td>2433</td>
<td>12' SW 447.50</td>
<td>831.65</td>
<td>1.50</td>
<td>4&quot;</td>
<td>Sewer W1 (Cover R)</td>
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<tr>
<td>8+116</td>
<td>2420</td>
<td>12' N 447.00</td>
<td>831.67</td>
<td>1.67</td>
<td>4&quot;</td>
<td>Sewer W1 (Cover R)</td>
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<tr>
<td>8+5751</td>
<td>2421</td>
<td>12' # 425.87</td>
<td>831.83</td>
<td>2.30</td>
<td>8&quot;</td>
<td>Sewer W1 (Cover R)</td>
</tr>
</tbody>
</table>

### Existing Storm Sewer Structure Removal Table

<table>
<thead>
<tr>
<th>Structure</th>
<th>Utility Station</th>
<th>M.W. Elevation Size &amp; Direction</th>
<th>Top of Casting Elevation</th>
<th>Depth (Feet)</th>
<th>Size</th>
<th>Application/Construction</th>
</tr>
</thead>
<tbody>
<tr>
<td>8+3700</td>
<td>2417</td>
<td>12' SW 437.00</td>
<td>828.00</td>
<td>2.00</td>
<td>6&quot;</td>
<td>Sewer W1</td>
</tr>
<tr>
<td>8+3740</td>
<td>2417</td>
<td>12' SW 437.00</td>
<td>828.00</td>
<td>2.00</td>
<td>6&quot;</td>
<td>Sewer W1</td>
</tr>
</tbody>
</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.

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

2019005

BARTON DRIVE IMPROVEMENTS

PROPOSED ROAD & SIDEWALK
STA, 14+00 - STA. 17+50

CONSTRUCTION KEY

<table>
<thead>
<tr>
<th>KEY</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>HMA</td>
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</tr>
<tr>
<td>HMA APP</td>
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<tr>
<td>HP</td>
<td></td>
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<tr>
<td>CG</td>
<td></td>
</tr>
<tr>
<td>DO-M</td>
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<tr>
<td>DC-6</td>
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<td>SW-4</td>
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<tr>
<td>SWR-6</td>
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<tr>
<td>DWS</td>
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</tr>
<tr>
<td>SW-RWS</td>
<td></td>
</tr>
<tr>
<td>SW-RWT</td>
<td></td>
</tr>
</tbody>
</table>

BARTON DR

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

15+00
16+00
17+00
17+50

CAUTION
HAZARDOUS
OR FLAMMABLE
MATERIAL

CAUTION
HAZARDOUS
OR FLAMMABLE
MATERIAL
LONG SHORE DR
BREDE PL (60' R.O.W.)
415
BARTON DR CONST
805
810
815
17+50
18+00
19+00
20+00
21+00
PLAN:
1" = 20'
PROFILE: 1" = 2'

Know what's below. Call before you dig.

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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

CONSTRUCTION KEY
KEY
DESCRIPTION
HMA
HMA APP
HP
CG
DO-M
DC-6
SW-4
SWR-6
DWS
SW-RWS
SW-RWT
ABO
1
2

CAUTION
HAZARDOUS OR FLAMMABLE MATERIAL
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

BARTON DRIVE IMPROVEMENTS
PROPOSED SIDEWALK PLAN & PROFILE
STA. 4+00 - STA. 8+00
Know what's below. Call before you dig.
BARTON DR.

BARTON DR. IMPROVEMENTS

INTERSECTION GRADES

BARTON DR AT M-14

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.
Call before you dig.

Know what's below.
BARTON DR (66' R.O.W.)

NORTHSIDE AVE

(60' R.O.W.)

BARTON DR (66' R.O.W.)

CHANDLER RD

(50' R.O.W.)

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

BARTON DR (66' R.O.W.)

PONTIAC ST (66' R.O.W.)

STARWICK DR (60' R.O.W.)

1" = 20'

BARTON DR IMPROVEMENTS
PAVEMENT MARKINGS AND PERMANENT SIGNING
STA. 28+00 - P.O.E.

CROSSWALK AND STOP BAR DETAIL

BIKE SYMBOL DETAIL

BIKE LANE MARKINGS

CROSSWALK AND STOP BAR DETAIL

WITH BIKE LANE

BIKE SYMBOL DETAIL