**CONSTRUCTION NOTES:**

- **Dunmore Rd., Waverly Rd., Weldon Blvd.**

- **BM #** | **ELEV** | **DESCRIPTION**
  - 1 | 931.926 | Set RR spike in SE side of L.P. @ NW corner of Dunmore and Sanford Pl.
  - 2 | 932.894 | Set RR spike in SE side of L.P. @ NW corner of Dunmore and Waverly
  - 3 | 942.002 | Set RR spike in E. side of L.P. on W. side of Waverly between Hse No. 1718 and 1726.
  - 4 | 947.703 | Set RR spike in NE side of L.P. @ SW corner of Waverly and Weldon.
  - 5 | 942.332 | Set RR spike in N. side of L.P. on S. side of Weldon between Hse No. 1807 and 1811.
  - 6 | 937.595 | Set RR spike in N. side of L.P. on S. side of Weldon between Hse No. 1719 and 1725.
  - 7 | 938.772 | Set RR spike in S'ly side of L.P. at bend in Weldon/Winstead, between Hse No. 1601 and 1700.
  - 8 | 935.861 | Set RR spike in E'ly side of L.P. @ NW corner of Winstead and Sanford Pl.
  - 9 | 940.428 | Set RR spike in N side of L.P. on S. side of Hartford at approx. mid-block between Winstead and Mershon.
  - 10 | 945.405 | Set RR spike in W'ly side of L.P. @ NE corner of Mershon and Normandy.
  - 11 | 947.151 | Set RR spike in NW side of L.P. @ SE corner of Mershon and Glen Leven.

**CONTACT INFORMATION**

**PUBLIC UTILITIES**

- OWNER
- CONTACT

**PRIVATE UTILITIES**

- OWNER
- CONTACT
Know what’s below. Call before you dig.
<table>
<thead>
<tr>
<th>Structure Location</th>
<th>Station</th>
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<th>Depth</th>
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</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

2018033 - DUNMORE, WAVERLY, WELDON, HARTFORD
WATER MAIN REPLACEMENT
MISC. DETAILS
TREE PROTECTION DETAIL
CURB AND GUTTER, CONC, DET F4, SPECIAL
TYPE 'M' DRIVE APPROACH SD-R-6
Know what's below. Call before you dig.
HARTFORD STREET
EXISTING TYPICAL SECTION

HARTFORD STREET
PROPOSED TYPICAL SECTION

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

RAILINGS OR OTHER OBJECTS MAY PROTRUDE A MAXIMUM OF 4 INCHES INTO THE WALKWAY CLEAR SPACE WHEN LOCATED A MINIMUM OF 27 INCHES ABOVE THE WALKWAY SURFACE.

ANY PEDESTRIAN DEVICES USED TO PROVIDE POSITIVE PROTECTION FOR PEDESTRIANS OR WORKERS SHALL MEET NCHRP 350 CRASHWORTHY REQUIREMENTS APPROPRIATE FOR THE BARRIER'S APPLICATION.

BARRICADES SHALL BE PLACED CONTINUOUSLY ACROSS THE ENTIRE WIDTH OF THE WALKWAY SURFACE BEING CLOSED.

SPECIFIC NOTES

ANY TRIPPING HAZARD IN THE WALKWAY NEEDS A DETECTABLE EDGE. BALLAST SHALL BE LOCATED BEHIND OR INTERNAL TO THE DEVICE. ANY SUPPORT ON THE FRONT OF THE DEVICE SHALL NOT EXTEND INTO THE 48 INCH MINIMUM WALKWAY CLEAR SPACE AND SHALL NOT EXCEED 0.5 INCHES IN HEIGHT ABOVE THE WALKWAY SURFACE.

DETECTABLE EDGE SHALL BE CONTINUOUS AND A MINIMUM OF 6 INCHES IN HEIGHT ABOVE THE WALKWAY SURFACE.

DEVICES SHALL NOT BLOCK WATER DRAINAGE FROM THE WALKWAY. A GAP HEIGHT OR OPENING FROM THE WALKWAY SURFACE UP TO A MAXIMUM OF 2 INCHES IS ALLOWED FOR DRAINAGE PURPOSES.

WHEN HAND GUIDANCE IS REQUIRED, THE TOP RAIL OR TOP SURFACE SHALL:
- BE IN A VERTICAL PLANE PERPENDICULAR TO THE WALKWAY ABOVE THE DETECTABLE EDGE.
- BE CONTINUOUS AT A HEIGHT OF 34 TO 38 INCHES ABOVE THE WALKWAY SURFACE, AND
- BE SUPPORTED WITH MINIMAL INTERFERENCE TO THE PEDESTRIAN'S HANDS OR FINGERS.

ALL DEVICES SHALL BE FREE OF SHARP OR ROUGH EDGES, AND FASTENERS (BOLTS) SHALL BE ROUNDED TO PREVENT HARM TO HANDS, ARMS OR CLOTHING OF PEDESTRIANS.

ALL DEVICES USED TO CHANNELIZE PEDESTRIAN FLOW SHOULD INTERLOCK SUCH THAT GAPS DO NOT ALLOW PEDESTRIANS TO STRAY FROM THE INTENDED CHANNELIZED PATH.

A WALKWAY SURFACE SHALL BE FIRM, STABLE, AND SLIP RESISTANT. COMPACTED GRAVEL, AGGREGATE, OR SLAG MATERIALS ARE NOT ALLOWED.

LONGITUDINAL CHANNELIZING DEVICES FOR PEDESTRIANS SHALL BE 32 INCHES IN HEIGHT OR GREATER.

TYPICAL AUDIBLE MESSAGE DEVICE LOCATION WHEN USED

NARROW TEMPORARY PEDESTRIAN ACCESS ROUTE PASSING DETAIL
MINIMIZE DISRUPTION TO PEDESTRIANS TO THE MAXIMUM EXTENT FEASIBLE BY PROVIDING FLAGS OR OTHER ENGINEER-APPROVED DEVICES AT NO ADDITIONAL COST TO THE PROJECT.

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.

FIRM, STABLE, AND SLIP RESISTANT TEMPORARY WALKWAY SURFACE TO COVER SHORT TERMINAL AREAS MAY BE NEEDED TO CONTROL VEHICULAR TRAFFIC. STAGE WORK, AS NECESSARY, TO PROVIDE A SMOOTH, CONTINUOUS, HARD SURFACE THROUGH THE LENGTH OF THE APR.

GENERAL NOTES

WHEN DESIGNING TEMPORARY CROSSWALKS OR SIDEWALKS, THE CONTRACTOR SHALL PROVIDE APPROVED TEMPORARY DEVICES AND MAY USE TEMPORARY CROSSWALKS CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NEEDED TO CONTROL VEHICULAR TRAFFIC. STAGE WORK, AS NECESSARY, TO PROVIDE A SMOOTH, CONTINUOUS, HARD SURFACE THROUGH THE LENGTH OF THE APR.

PROVIDE A SMOOTH, CONTINUOUS, HARD SURFACE THROUGH THE LENGTH OF THE APR.

PROVIDE THE APR ON THE SAME SIDE OF THE STREET AS THE DISRUPTED ROUTE WHERE IT IS NOT FEASIBLE TO PROVIDE AN APR ON THE OTHER SIDE OF THE ROAD.

WHERE IT IS NOT FEASIBLE TO PROVIDE A SAME SIDE APR, PROVIDE A DETOUR ON THE OTHER SIDE OF THE STREET.

PEDESTRIAN DETOUR IS NON-COMPLIANT TO TPAR STANDARDS.

IF THE TPAR IS ADJACENT TO MOVING TRAFFIC, CONSTRUCTION OPERATIONS/EQUIPMENT, OR DROP-OFFS, THEN CRASH WORTHY CHANNELIZING MARKINGS, BARRICADES, CHANNELIZING DEVICES, TPARS AND METHODS TO PROVIDE THE LOCATION AND DETAILS OF TEMPORARY CONSTRUCTION SIGNING, PHASING AND SCHEDULE AND THE SPECIFIC METHODS OF MAINTAINING SAFE PROPER PROTECTION AND A TPAR HAVE BEEN PROVIDED.

IF SIDEWALKS ARE CLOSED, A TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) SHALL PROVIDE PEDESTRIAN ACCESS TO ALL ADJACENT PROPERTIES, INCLUDE TEMPORARY WALKWAYS SPANNING THE CONSTRUCTION AREA.

PEDESTRIAN ACCESS SHALL BE PROVIDED TO ALL ADJACENT PROPERTIES, INCLUDE TEMPORARY WALKWAYS SPANNING THE CONSTRUCTION AREA.

PROVIDE A SMOOTH, CONTINUOUS, HARD SURFACE THROUGH THE LENGTH OF THE APR.

PEDESTRIAN DETOUR USING OPPOSITE SIDE OF STREET

SPECIFIC NOTES

0. TEMPORARY CUBES MARK WITH DETECTABLE ALUMINUM.

2. TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.

3. LARGE SIGN BOARD免費 FOR IMMEDIATE PEDESTRIAN DIRECTION.

4. TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS.

5. TEMPORARY PEDESTRIAN TRAFFIC CONTROL BARRIERS.

6. TEMPORARY PEDESTRIAN TRAFFIC CONTROL PLAN FOR REVIEW WITHIN 24 HOURS.

7. TEMPORARY PEDESTRIAN TRAFFIC CONTROL PLAN FOR REVIEW WITHIN 24 HOURS.

8. TEMPORARY PEDESTRIAN TRAFFIC CONTROL PLAN FOR REVIEW WITHIN 24 HOURS.

OTHER SIDE OF STREET DETOUR OR DETOUR WITH TRAILBLAZING SIGNS (FOR CORNER SIDEWALK CLOSURE WITH OPTIONAL TEMPORARY CROSSWALK)

PEDESTRIAN DETOUR USING OPPOSITE SIDE OF STREET

SPECIFIC NOTES

0. TEMPORARY CUBES MARK WITH DETECTABLE ALUMINUM.

2. TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.

3. LARGE SIGN BOARD FREE FOR IMMEDIATE PEDESTRIAN DIRECTION.

4. TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS.

5. TEMPORARY PEDESTRIAN TRAFFIC CONTROL BARRIERS.

6. TEMPORARY PEDESTRIAN TRAFFIC CONTROL PLAN FOR REVIEW WITHIN 24 HOURS.

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8. TEMPORARY PEDESTRIAN TRAFFIC CONTROL PLAN FOR REVIEW WITHIN 24 HOURS.

OTHER SIDE OF STREET DETOUR OR DETOUR WITH TRAILBLAZING SIGNS (FOR CORNER SIDEWALK CLOSURE WITH OPTIONAL TEMPORARY CROSSWALK)
**CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.**

**PROTECTIVE EDGING WITH 2" MIN. HEIGHT SHALL BE PLACED ABOVE A CURB RAMP OR LANDING PLATFORM WHEN A VERTICAL DROP OF 6" OR GREATER OR WHERE THE SIDE APRON SLOPE IS STEEPER THAN 1:3. PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.**

**DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE PLACED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).**

**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". LATERAL EDGES SHOULD BE VERTICAL UP TO 1/4" HIGH, AND BEVELED AT 1:2 BETWEEN 1/4" AND 1/2" HEIGHT.**

**TEMPORARY CURB RAMP**

**PARALLEL TO CURB**

**TEMPORARY CURB RAMP**

**PERPENDICULAR TO CURB**
**GENERAL NOTES**

When closing or restricting sidewalks or crosswalks, the contractor shall provide temporary traffic control devices. The City of Ann Arbor shall be notified of any temporary traffic control device that will be placed on a sidewalk or crosswalk. Temporary traffic control devices used for pedestrians are shown. Other devices may be necessary to control vehicle traffic. Please review, as necessary, to provide an alternative pedestrian route (APR) at all times. For sidewalks with no available bypass, temporary sidewalk closures shall be demonstrated at 30 mph.

Provide a smooth, continuous, hard surface through the length of the APR. Compacted gravel, aggregate, or sand materials are not allowed. Provide a pedestrian channelized surface to cover short segments of rough, soft, or uneven ground.

The temporary traffic control devices controlling access to temporary sidewalk or crosswalk shall be centered or located by the City of Ann Arbor. The contract shall ensure and coordinate the work with the minimum amount of disruption to sidewalks requiring closures or closure prior to the beginning of work that requires a temporary sidewalk closure. Post-occupied sidewalk closures adjacent to a sidewalk shall make a 5’ pedestrian channelized surface from the bottom of the slab to the sidewalk surface. When the engineer determines that the contractor’s operations or placement of temporary Sidewalks or crosswalks is causing a hazard to pedestrian, the engineers bearing the maximum amount of displacement under the trucks and conditions at the contact time shall be posted as follows: Side of the Apr, CD, or DP.

When closing or restricting sidewalks or crosswalks, the contractor shall coordinate this work with the Engineer a minimum of 72 hours (not including weekends & holidays) prior to the beginning of work that requires a sidewalk closure. Provide temporary traffic control devices for pedestrians are shown. Other devices shall be delineated with flags or other engineer-approved devices at no cost to the project.

**SPECIFIC NOTES**

1. Provide temporary sidewalk with detectable markings.
2. Sidewalk 5’ wide, as flat as possible. Recommended when the closed area was used as an intersection. Traffic lane in front of the sidewalk. Street facilities shall be preserved for the duration of the work and devices shall be provided for safe crossing.
3. An approved detectable warning device or tactile markings must be provided for each temporary crosswalk that is in use. Markings shall be placed at the edge of the closed sidewalk.
4. The temporary traffic control devices controlling access to temporary sidewalk or crosswalk shall be centered or located by the City of Ann Arbor. The contract shall ensure and coordinate the work with the minimum amount of disruption to sidewalks requiring closures or closure prior to the beginning of work that requires a temporary sidewalk closure.
5. Post-occupied sidewalk closures adjacent to a sidewalk shall make a 5’ pedestrian channelized surface from the bottom of the slab to the sidewalk surface. When the engineer determines that the contractor’s operations or placement of temporary sidewalk or crosswalk is causing a hazard to pedestrian, the engineer shall tailor to the other side of the street.
6. The City of Ann Arbor shall be notified of any temporary traffic control device that will be placed on a sidewalk or crosswalk. Temporary sidewalk or crosswalk shall be demonstrated at 30 mph.
7. Provide the APR on the same side of the street as the disrupted sidewalk if possible.
8. Where it is not feasible to provide a main side APR, provide a bypass on the other side of the street.
9. Where it is not feasible to provide an APR on the other side of the street, provide an alternate route with temporary sidewalk or crosswalk as shown on the project plans.

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

**BYPASS ON ADJACENT AVAILABLE ROADWAY**

**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**

**LEGEND**

- **SIGN**: Pedestrian channelization device
- **BARRIER**: Existing pedestrian surface
- **SIDEWALK BARRICADE**: Work area
- **PEDESTRIAN CHANNELIZATION DEVICE**: Existing pedestrian surface
- **BARRIER WITH TAPER AND ATTENUATION**: Existing pedestrian surface
- **PEDESTRIAN CHANNELIZERS**: Existing pedestrian surface
- **CHANNELIZERS**: Existing pedestrian surface
- **RIGHT OF WAY CHANNELIZERS**: Existing pedestrian surface
- **SHOULDER OR PARKING LANE ON ROAD OR COMMERCIAL DRIVEWAY**: Existing pedestrian surface
- **TEMPORARY CURB RAMPS WITH DETECTABLE WARNINGS**: Existing pedestrian surface
- **TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS**: Existing pedestrian surface
- **MARKERS**
Know what's below. Call before you dig.
DUNMORE RD (60' R.O.W.)
SANFORD PL (60' R.O.W.)
WAVERLY RD (60' R.O.W.)

Know what's below.
Call before you dig.

REMOVAL KEY

CAUTION
HAZARDOUS
OR FLAMMABLE
MATERIAL

CAUTION
HAZARDOUS
OR FLAMMABLE
MATERIAL
WATER MAIN REPLACEMENT
DUNMORE RD (60' R.O.W.)
WAVERLY RD (60' R.O.W.)
SANFORD PL. (60' R.O.W.)
WELDON BLVD. (60' R.O.W.)
WINSTED BLVD (60' R.O.W.)
HARTFORD ST. (60' R.O.W.)
MERSHON DR. (60' R.O.W.)
NORMANDY RD
GLEN LEVEN RD

WATER MAIN STRUCTURE TABLE

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<td>M8</td>
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</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

20 OF 36
CAUTION
HAZARDOUS
OR FLAMMABLE
MATERIAL
Know what's below. Call before you dig.
<table>
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<th>Structure</th>
<th>Station</th>
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**Existing Storm Sewer Structure Removal Table**

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</table>

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

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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**
PROPOSED STORM STRUCTURE TABLE

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EXISTING STORM SEWER STRUCTURE REMOVAL TABLE

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CAUTION

HAZARDOUS OR FLAMMABLE MATERIAL

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WELDON BLVD

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

---

WELDON BLVD

---

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
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WATER MAIN REPLACEMENT
STORM SEWER PLAN AND PROFILE
WELDON BLVD R115 - R118

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Know what's below. Call before you dig.

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2018033