EXISTING LEGEND

PROPOSED LEGEND

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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

HOOVER, GREENE, & HILL
IMPROVEMENT PROJECT
LEGEND
CONTACT INFORMATION

PUBLIC UTILITIES

OWNER

CONTACT

WATER

CITY OF ANN ARBOR

WATER DISTRIBUTION SYSTEM

PRIVATE UTILITIES

OWNER

CONTACT

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

NOTES

PERMITS REQUIRED TO BE OBTAINED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION.

LANE CLOSURE PERMIT

CITY OF ANN ARBOR ENGINEERING

NO PARKING PERMIT

CITY OF ANN ARBOR ENGINEERING

GOODMAN, ENRICKA & HARRIS

BUSINESS SERVICES

CITY OF ANN ARBOR ENGINEERING

CITY OF ANN ARBOR CUSTOMER SERVICE

CITY OF ANN ARBOR ENGINEERING

PERMITS REQUIRED TO BE OBTAINED BY AN ANN ARBOR PRIOR TO THE BEGINNING OF CONSTRUCTION.

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

MICHIGAN PUBLIC SERVICE COMMISSION

REPUBLICAN COUNTY WATER REUSING COMPANY

MICHIGAN PUBLIC SERVICE COMMISSION

WATER MAIN QUANTITIES FOR MDEQ PERMIT PROCESS ONLY

WATER MAIN CONSTRUCTION NOTES

1. NO WATER MAIN CONSTRUCTION SHALL BE PERMITTED ON THE PROJECT SITE EXCEPT AS PERMITTED IN THE SITE PLAN AND PERMITTED BY THE CITY OF ANN ARBOR ENGINEERING.

2. ALL WATER MAIN CONSTRUCTION SHALL BE PERMITTED ON THE PROJECT SITE EIGHT (8) FEET ABOVE THE GRADE OF THE SITE PLAN AND PERMITTED BY THE CITY OF ANN ARBOR ENGINEERING.

3. THE CONTRACTOR SHALL COMPLETE ALL WATER MAIN CONSTRUCTION PRIOR TO THE BEGINNING OF CONSTRUCTION ACTIVITY.

4. NO WATER MAIN CONSTRUCTION SHALL BE PERMITTED ON THE PROJECT SITE EXCEPT AS PERMITTED IN THE SITE PLAN AND PERMITTED BY THE CITY OF ANN ARBOR ENGINEERING.

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19. ALL WATER MAIN CONSTRUCTION SHALL BE PERMITTED ON THE PROJECT SITE EXCEPT AS PERMITTED IN THE SITE PLAN AND PERMITTED BY THE CITY OF ANN ARBOR ENGINEERING.
**PROJECT NAME BENCHMARKS**

<table>
<thead>
<tr>
<th>BM #</th>
<th>ELEV</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>1</td>
<td>827.810</td>
<td>RAILROAD SPIKE, SOUTH SIDE UTILITY POLE @ NORTHWEST CORNER HILL &amp; 5TH</td>
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<tr>
<td>2</td>
<td>822.150</td>
<td>RAILROAD SPIKE, WEST SIDE UTILITY POLE, EAST SIDE GREENE, 100' NORTH OF DIVISION</td>
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<tr>
<td>3</td>
<td>844.950</td>
<td>NORTHWEST CORNER TOP CORNERSTONE BASE FOR BUS STOP SHELTER, EAST SIDE GREENE, NORTH SIDE KIPKE</td>
</tr>
<tr>
<td>4</td>
<td>846.860</td>
<td>BENCHMARK SPIKE, NORTHWEST SIDE UTILITY POLE @ NORTHWEST CORNER HOOVER &amp; BROWN</td>
</tr>
<tr>
<td>5</td>
<td>828.680</td>
<td>SOUTHEAST BOLT, RAILROAD SIGNAL BASE, NORTH SIDE HOOVER, EAST SIDE RAILROAD</td>
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<tr>
<td>6</td>
<td>823.650</td>
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<tr>
<td>7</td>
<td>825.700</td>
<td>NORTHEAST BOLT, METAL LIGHT POLE @ SOUTHEAST CORNER HOOVER &amp; SYBIL</td>
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**KEY MAP**
PROJECT NAME BENCHMARKS

<table>
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<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>1</td>
<td>827.81</td>
<td>BM TIE ON NORTHEAST SIDE UTILITY POLE @ NORTHEAST CORNER HILL &amp; ADAMS</td>
</tr>
<tr>
<td>2</td>
<td>822.15</td>
<td>RAILROAD SPIKE SOUTH SIDE UTILITY POLE @ NORTHWEST CORNER HILL &amp; 5TH</td>
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**BM-1**
827.81

**BM-2**
822.15

**PROJECT NAME**
HOOVER, GREENE, & HILL

**IMPROVEMENT PROJECT**
ALIGNMENT PLAN - HILL STREET

**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**

**2018-031**
Hoover, Greene & Hill

Improvement Project

Alignment Plan - Greene Street STA 0+00 TO STA 5+50

BM-4

844.95

PROJECT NAME BENCHMARKS

<table>
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<th>ELEV</th>
<th>DESCRIPTION</th>
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<tr>
<td>4</td>
<td>844.95</td>
<td>NORTHWEST CORNER CONCRETE BASE FOR BUS STOP SHELTER, EAST SIDE NORTH, NORTH SIDE KIPKE</td>
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</table>

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
CITY OF ANN ARBOR
PUBLIC SERVICES
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2018-031-6

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2018-031-6
Know what's below. Call before you dig.
Project Name: IMPROVEMENT PROJECT
Alignment Plan: GREENE STREET STA 10+00 TO STA 14+77

BM # | ELEV | DESCRIPTION
--- | --- | ---
3 | 828.280 | RAILROAD SPIKE WEST SIDE UTILITY POLE, EAST SIDE GREENE, 125'± NORTH OF DAVIS

BM-3
828.79

Table: Project Name Benchmarks

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<th>BM</th>
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<th>DESCRIPTION</th>
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<tbody>
<tr>
<td></td>
<td>828.280</td>
<td>RAILROAD SPIKE WEST SIDE UTILITY POLE, EAST SIDE GREENE, 125'± NORTH OF DAVIS</td>
</tr>
</tbody>
</table>

continue...
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.
HMA APPLICATION ESTIMATE

<table>
<thead>
<tr>
<th>STREET NAME</th>
<th>TYPE</th>
<th>MAX SIZE</th>
<th>APPLICATION SIZE</th>
<th>CITY THICKNESS</th>
<th>FINE GRADE</th>
<th>SAND</th>
<th>UNIT</th>
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<tr>
<td>GREENE</td>
<td>HD30</td>
<td>154520</td>
<td>105553</td>
<td>1.50</td>
<td>PG 60-28</td>
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EXISTING CROSS SECTION

PROPOSED CROSS SECTION
Know what's below. Call before you dig.
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HMA APPLICATION ESTIMATE

<table>
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<tr>
<th>STREET</th>
<th>PAY REV</th>
<th>HMA.gr</th>
<th>APPLICATION RATE</th>
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<td>90</td>
<td>3,05</td>
<td>4,5</td>
<td>90 44-26</td>
<td>600</td>
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<tr>
<td>MOORE</td>
<td>222</td>
<td>90</td>
<td>3,05</td>
<td>4,5</td>
<td>90 44-26</td>
<td></td>
<td></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.

---

**SINGLE INLET STRUCTURE SD-S-10**

NOTES:
1. ALL CONCRETE MACHINES SHALL BE PRESSURE CONCRETE.
2. ALL MACHINES, EXCEPT MACHINERY ON THE PIPE, SHALL BE CLEARLY LABELED AND MARKED.
3. CONCRETE PERMEABILITY MACHINES SHALL BE HEATED WITH A HEAT PIPE CONNECTION.
4. IF CONCRETE MACHINES ARE TO BE REPLACED IN CONCRETE, THEY SHALL BE CLEARLY LABELED AND MARKED.

---

**STANDARD MANHOLE (TYPE I)**

NOTES:
1. ALL MANHOLE MANHOLE SHALL BE HEATED CONCRETE.
2. ALL MACHINES, EXCEPT MACHINERY ON THE PIPE, SHALL BE CLEARLY LABELED AND MARKED.
3. CONCRETE PERMEABILITY MACHINES SHALL BE HEATED WITH A HEAT CONvector CONNECTION.
4. IF CONCRETE MACHINES ARE TO BE REPLACED IN CONCRETE, THEY SHALL BE CLEARLY LABELED AND MARKED.

---

**STORM DETAILS**

- **STANDARD MANHOLE (TYPE I)**
  - DIA. OUTLET: 1.5" TYP.
  - PLATE WIDTH: VARIES
  - PLATE HEIGHT: CONCRETE
  - OPENING: OPENING

**NOTES**:
1. FLUIDIC-CONE SIZES VARY BASED ON SITE REQUIREMENTS (SEE FLOW CHARTS)
2. ATTACHMENT PLATE WIDTH AND HEIGHT VARY BASED ON CONCRETE OPENING SIZE
3. ATTACHMENT MAY BE MADE BY A PLATE, A SLEEVE OR A BOLTING FLANGE
4. OUTLET SIZE VARIES BASED ON DESIRED OUTFLOW RATES (Ø3" MINIMUM)
5. ALL WELDS CONTINUOUS UNLESS NOTED OTHERWISE

**MATERIALS**:
- 12 GA. 304L STAINLESS STEEL
- [Other materials listed]
Know what's below. Call before you dig.
1. **VERTICAL SURFACES:**
   - Provide manufacturer's standard, non-modified, two-or-more-part, polysulfide-based, elastomeric sealant, complying with either ASTM C 920 Type M Class 25, or FS TT-S-00227E Class A; non-sag gray cement type.

2. **HORIZONTAL SURFACES:**
   - Provide manufacturer's standard, non-modified, two-or-more-part, polysulfide-based, elastomeric sealant, complying with either ASTM C 920 Type M Class 25, or FS TT-S-00227E Class A; non-sag gray cement type.

3. **VERTICAL SURFACES:**
   - 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
   - Provide manufacturer's standard, polyurethane-based, elastomeric sealant, complying with either ASTM C 920 Type M Class 25, or FS TT-S-00227E Class A; non-sag gray cement type.

4. **SELF-LEVELING GRADE/TYPE:**
   - Sealant; complying with either ASTM C 920 Type M Class 25, or FS TT-S-00227E Class A; non-sag gray cement type.

5. **SIDEWALK - 8" THICKNESS**
   - **NOTES:**
     - Expansion joints shall be installed such that:
       - Joint sealant shall be installed within 36 hours after placement.
       - Joint sealant shall be installed within 36 hours after placement.

6. **SIDEWALK CONTROL JOINT LAYOUT**
   - Joint sealant shall be installed within 36 hours after placement.

7. **PEDESTRIAN POLE BASE - PLAN VIEW**
   - **NOTES:**
     - Expansion joints shall be installed such that:
       - Joint sealant shall be installed within 36 hours after placement.

8. **EXPANSION JOINT REPLACEMENT**
   - **NOTES:**
     - Expansion joints shall be installed such that:
       - Joint sealant shall be installed within 36 hours after placement.

9. **EXPANSION JOINT SEALANT**
   - **NOTES:**
     - Expansion joints shall be installed such that:
       - Joint sealant shall be installed within 36 hours after placement.

10. **EXPANSION JOINT MATERIAL**
    - **NOTES:**
      - Expansion joints shall be installed such that:
        - Joint sealant shall be installed within 36 hours after placement.

11. **JOINT SEALANT**
    - **NOTES:**
      - Expansion joints shall be installed such that:
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12. **JOINT MATERIAL**
    - **NOTES:**
      - Expansion joints shall be installed such that:
        - Joint sealant shall be installed within 36 hours after placement.
Know what's below. Call before you dig.
PLN: 1" = 20'

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

1" = 20'

Know what's below. Call before you dig.
Know what's below. Call before you dig.
Know what's below. Call before you dig.
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ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org

HOOVER AVENUE
S MAIN STREET

WATER MAIN STRUCTURE TABLE

<table>
<thead>
<tr>
<th>STRUCTURE TYPE</th>
<th>STRUCTURE DETAILS</th>
<th>HEEL DEPTH</th>
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SEE SHEET 3 FOR WATER MAIN CONSTRUCTION NOTES
Know what's below. Call before you dig.
WATER MAIN STRUCTURE TABLE

<table>
<thead>
<tr>
<th>STRUCTURE</th>
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<th>STATION</th>
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WATER MAIN STRUCTURE TABLE

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<th>D''</th>
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<tr>
<td>10</td>
<td>12 in. D.I.</td>
<td>6+00</td>
<td>4</td>
<td>10.12</td>
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</table>

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PUBLIC SERVICES
301 EAST HURON STREET
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ANN ARBOR, MI 48107-8647
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IMPROVEMENT PROJECT
WATER MAIN PLAN & PROFILE - HOOVER AVE STA 6+00 TO STA 10+00

HOOVER AVENUE
GREENE STREET

SEE SHEET 3 FOR WATER MAIN CONSTRUCTION NOTES
WATER MAIN STRUCTURE TABLE

<table>
<thead>
<tr>
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<tr>
<td></td>
<td></td>
<td>18+00</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
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734-794-6410
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IMPROVEMENT PROJECT
WATER MAIN PLAN & PROFILE - HOOVER AVE STA 14+00 TO STA 18+00

HOOVER AVENUE
S. DIVISION STREET

SEE SHEET 3 FOR WATER MAIN CONSTRUCTION NOTES
STORM SEWER STRUCTURE TABLE

<table>
<thead>
<tr>
<th>STRUCTURE</th>
<th>STATION</th>
<th>POINT ELEV.</th>
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<th>DEPTH</th>
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<th>APPLICATION/ CONSTRUCTION</th>
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<td>13.51</td>
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</table>
Know what's below.
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HOOPER, GREENE, & HILL
IMPROVEMENT PROJECT
ADA RAMP DETAIL GRADES - HILL STREET
GREENE STREET
HILL STREET
ANN ARBOR RAILROAD
SOUTHEAST CORNER - GREENE & HILL
NORTH SIDE HILL ST. EAST SIDE OF ANN ARBOR RAILROAD
SOUTH SIDE HILL ST. EAST SIDE OF ANN ARBOR RAILROAD
Know what's below.

Call before you dig.
Know what's below.
Call before you dig.
Know what's below. Call before you dig.
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2018-031

HOOVER, GREENE, & HILL IMPROVEMENT PROJECT

STRIPING AND SIGNAGE PLANE - GREENE STREET

GREENE STREET
KEECH AVENUE
KIPKE DRIVE
HOOVER AVENUE
HOOVER AVENUE
GREENE STREET
GREENE STREET
GREENE STREET
ADAMS AVENUE
HILL STREET
E. DAVIS AVENUE

Sign, Type III, Rem
Pavt Mrkg, Sprayable Thermop, 4 inch, Yellow
Pavt Mrkg, Thermop, 12 inch, Crosswalk
Pavt Mrkg, Thermop, 24 inch, Stop Bar

Ea
Ft
Ft
Ft
37
2532
550
120

Signing & Pavement Marking Quantities this sheet:

NOTE: The City of Ann Arbor shall create signs and install them with post.

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

Contractor

<table>
<thead>
<tr>
<th>Date</th>
<th>Item Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NOTE:
The City of Ann Arbor shall create signs and install them with post.
Use the special City of Ann Arbor narrow turn arrow and sharrow markings for Hoover Avenue turn lane markings at Main Street.

Sign, Type III, Rem
Pavt Mrkg, Ovly Cold Plastic, Direction Arrow Sym, Bike
Pavt Mrkg, Ovly Cold Plastic, Bike, Small Sym
Pavt Mrkg, Ovly Cold Plastic, Lt Turn Arrow Sym
Pavt Mrkg, Ovly Cold Plastic, Railroad Sym
Pavt Mrkg, Ovly Cold Plastic, Rt Turn Arrow Sym
Pavt Mrkg, Sprayable Thermopl, 4 inch, White
Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow
Pavt Mrkg, Thermopl, 12 inch, Crosswalk
Pavt Mrkg, Thermopl, 24 inch, Stop Bar

Ea Ft
42
6
6
2
2
2
5
2765
3126
660
178

Signing & Pavement Marking Quantities this sheet:

HOOVER AVENUE
GREENE STREET
BROWN STREET
MAIN STREET
ANN ARBOR
RAILROAD
S. DIVISION STREET
NOTE: The City of Ann Arbor shall create signs and install them with post.

Use the special City of Ann Arbor narrow turn arrow and sharrow markings for Hoover Avenue turn lane markings at State Street.

Contractor:

Signing & Pavement Marking Quantities this sheet:

1. Signs, Type III, Rem
2. Pavt Mrkg, Ovly Cold Plastic, Direction Arrow Sym, Bike
3. Pavt Mrkg, Ovly Cold Plastic, Bike, Small Sym
4. Pavt Mrkg, Ovly Cold Plastic, Lt Turn Arrow Sym
5. Pavt Mrkg, Ovly Cold Plastic, Railroad Sym
6. Pavt Mrkg, Ovly Cold Plastic, Rt Turn Arrow Sym
7. Pavt Mrkg, Sprayable Thermop, 4 inch, White
8. Pavt Mrkg, Sprayable Thermop, 4 inch, Yellow
9. Pavt Mrkg, Thermop, 12 inch, Crosswalk
10. Pavt Mrkg, Thermop, 24 inch, Stop Bar

Ea Ft

854 1232 656 38
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.

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

IDENTIFIER: D3-2a
1.50" RADIUS, 0.75" BORDER, 0.50" INDENT, BLACK ON, ORANGE;
"HILL" C; "ST" C;

HILL ST: CLOSURE GREENE TO FIFTH, EB AND WB DETOUR
FIFTH STREET OPEN TO TRAFFIC

* INDICATES SIGNS TO BE REMOVED OR RELOCATED DURING FIFTH STREET CLOSURE

NOTE: USE WEST GREENE STREET ROUTE, WEST GREENE DETOUR, EAST GREENE DETOUR, NORTH HOVER ROUTE, AND SOUTH HOVER ROUTE DURING FIFTH STREET CLOSURE.
HILL ST: CLOSURE GREENE TO FIFTH, EB AND WE DETOUR FIFTH STREET. CLOSURE HILL TO MADISON

4 INCACT SIGNS PLACED DURING FIFTH STREET CLOSURE

NOTE: USE WITH GREENE/GREEN/EIGHTH CLOSURES AND DETOURS.を持って使用する場合、このマップに緑色のフィフス通りが閉鎖されていることを考慮してください。
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IMPROVEMENT PROJECT
HOOVER MOT - NORTHBOUND MAIN STREET

DETOUR
DETOUR
ROAD CLOSED
ROAD CLOSED
DETOUR

NOTICE: WORK MAY OCCUR AT ANY TIME. WORK ZONE MAY OCCUR AT HOVER AT ANY TIME. USE DETOUR WHILE WORK IS IN PLACE.

NB MAIN ST CLOSURE AT HOOVER
Know what's below.
Call before you dig.

DETOUR

CLOSED ROAD AHEAD

NOTE: THE HOOFER AVE DETOUR MANOEUVRES IN COUNTERCLOCKWISE DIRECTION TO THE SOUTH OF STATE STREET. WHICH IS LOWERED FROM 30' TO 16' AT THE END OF THE DETOUR WHICH WOULD BE REINSTATED AT THE END OF THE PROJECT. WHEN WORK IS COMPLETE, THE ROAD CLOSED MANOEUVRE WILL OCCUR WHILE THE HOOFER AVE DETOUR IS IN PLACE.
PLAN:

1:150

Know what's below. Call before you dig.

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2018-031

HOOVER, GREENE, & HILL
IMPROVEMENT PROJECT

NOTE: CONTRACTOR TO PERFORM WORK IN STAGES; CONTRACTOR IS TO MAINTAIN ACCESS TO PROPERTIES AT ALL TIMES.

NORTH HOOVER SIDEWALK CLOSURE,
PEDESTRIAN DETOUR
MAINTAIN SOUTH SIDEWALK
MINIMIZE DISRUPTION TO PEDESTRIANS TO THE MAXIMUM EXTENT FEASIBLE BY PROVIDING POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM PROVISION OF THE TPAR AND ALL OF ITS ELEMENTS, INCLUDING BUT NOT LIMITED TO SIGNS, CHANNELIZING DEVICES, BARRICADES, TEMPORARY PAVEMENT MARKINGS.

- PROVIDE A FIRM, STABLE, AND SLIP RESISTANT TEMPORARY WALKWAY SURFACE TO COVER SHORT SEGMENTS OF ROUGH, SOFT, OR UNEVEN GROUND.
- PROVIDE AN ALTERNATE PEDESTRIAN ROUTE (APR) AT ALL TIMES.
- ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

GENERAL NOTES
- PROVIDE TEMPORARY PEDESTRIAN TRAFFIC Signals Controlling Closed Crosswalks Shall Be Covered With Appropr ate Devices.

SPECIFIC NOTES
- PROVIDE TEMPORARY PEDESTRIAN TRAFFIC Signals Controlling Closed Crosswalks Shall Be Covered With Appropr ate Devices.

PEDESTRIAN TEMPORARY TRAFFIC CONTROL NOTES
- IF SIDEWALKS ARE CLOSED, A TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF 4 FEET. IF THE TPAR IS LESS THAN 5 FEET IN WIDTH, A 5 FOOT BY 5 FOOT PASSING SPACE SHOULD BE PROVIDED AT LEAST EVERY 200 FEET. THE SURFACE OF THE TPAR SHALL BE SMOOTH AND CONTINUOUS FOR THE LENGTH OF THE TPAR. THE TPAR SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF 4 FEET. IF THE TPAR IS LESS THAN 5 FEET IN WIDTH, A 5 FOOT BY 5 FOOT PASSING SPACE SHOULD BE PROVIDED AT LEAST EVERY 200 FEET. THE SURFACE OF THE TPAR SHALL BE SMOOTH AND CONTINUOUS FOR THE LENGTH OF THE TPAR.

- PEDESTRIANS USING PEDESTRIAN PATHS WITH DETECTABLE WARNINGS SHALL BE PROVIDED WITH A PEDESTRIAN TRAFFIC SIGNAL CONTROLLING CLOSED CROSSWALKS.

- PEDESTRIAN DETOUR TRAILBLAZING SIGNS SHOWING THE PEDESTRIAN DETOUR IS LOCATED SOMEPLACE OTHER THAN ACROSS THE STREET FROM THE SIDEWALK CLOSURE.

- PEDESTRIAN DETOUR Trailblazing signs showing the pedestrian detour is located someplace other than across the street from the sidewalk closure.

- PEDESTRIAN DETOUR TYPICAL DETAIL FOR USE IN ALL SIDEWALK DETOURS NOT OTHERWISE SHOWN.
Note: May only be used on roadway with posted speed of 45 MPH or less.

General Notes:
- When closing or relocating crosswalks or sidewalks, provide detectable temporary curb ramps and accessible elevations in accordance with existing guidelines.
- Temporary traffic control devices for pedestrians and vehicles other than bicycles, including traffic control devices necessary to provide an alternate pedestrian route in all times, for residents with no available alternate routes (for example, on one-way streets). Provide a smooth, continuous, hard-surface through the length of the APR.
- Provide 4’ minimum, 5’ desirable temporary sidewalk channels to cover short segments of rough, soft, or uneven ground.
- The pedestrian traffic signals controlling crosswalks shall be covered or deactivated.
- 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.
- Minimize disruption to pedestrians to the maximum extent feasible by providing an APR in the following order of preference:
  1. Provide the APR on the same side of the street as the disrupted route using bypasses.
  2. Where it is not feasible to provide an APR on the same side, provide a detour on the other side of the street.
  3. Where it is not feasible to provide an APR on the other side of the street, provide an APR by detour using travel lanes.

 Specific Notes:
- Provide temporary curb ramps at detectable warnings.
- Use temporary signs or foot pads recommended when the closed area was used as an intermittent traffic lane or bypass lane. Street parking shall be prohibited for at least 50 feet in advance of the closed area.
- Special sign measures for a temporary pedestrian/vehicle detour should include information such as the duration of the impact (e.g., 24 hours, 1 month, etc.) and a project contact number for reporting hazards.
- Use arrow/curb ramps for sidewalks on placement and usage of barriers.

Typical Sign Message for a Temporary Pedestrian Detour should include information such as the duration of the walkway restrictions (beginning and/or end dates) and a project contact number for reporting hazards.

See MUTCD for guidance on placement and usage of barriers.

Legend:
- Sidewalk work area
- Existing pedestrian surface
- Work area
- Pedestrian/vehicle detour device
- Sidewalk barricade
- Direction of traffic
- Traffic control device
- Temporary curb ramp
**SPECIFIC NOTES**

1. **Curb Ramps** shall be 48" min. width with a firm, stable and slip resistant surface.
2. Protective edges with a 4" min. height shall be placed with a curb ramp or landing platform has a slope of 1:6 or greater or an AASHTO curb ramp or landing platform has a vertical depth of 1' or more.
3. Detectable edging with a 3" min. height and contrasting color shall be placed on all curb ramps landing above the sidewalk's horizontal direction (ramps).
4. Curb ramps and landing shall have a 2% cross slope.
5. Clear space of 48" x 48" min. shall be provided above and below the curb ramp.
6. The curb ramp landing above shall be finished with a contrasting color. 2" to 4" wide horizontal marking is optional. Water flow in the gutter system shall not be impeded.
7. Changes in surface heights shall exceed a 1/2". Lateral edges should be vertical up to 1/2" or more, and level at 1/2 to 1/4" height, and bevel at 1/4" to 1/2" height.

**EDGE TREATMENT**

- 2" to 4" wide edge marking
- Non-slip surface
- Curb face
- Drainage
- Clear space
- Joint gap treatment
- Edge treatment
- Protective edging 3" min. height above ramp surface
- Protective edging 6" min. landing area
- Clear space 48" x 48" min. landing area
- 6" min. height above ramp surface
- Protective edging 6" min. height above ramp surface
- 2% max. cross slope
- Detectable edging 6" min. height
- Protective edging 2" min. height above ramp surface
- 2" to 4" wide edge marking
- Edge treatment
- Clear space
- Joint gap treatment
- Edge treatment
- Protective edging 2" min. height above ramp surface
- Non-slip surface

**TEMPORARY CURB RAMP**

- Temporary curb ramp parallel to curb
- Temporary curb ramp perpendicular to curb

**HOOVER, GREENE, & HILL IMPROVEMENT PROJECT**

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**2018-031-81**

**2018-031-81**
GENERAL NOTES

1. ALL PLACEMENTS OF CHANNELIZING DEVICES SHALL BE PERPENDICULAR TO THE WALKWAY SURFACE AND SUPPORTED SUCH THAT GAPS DO NOT ALLOW PEDESTRIANS TO STRAY FROM THE CHANNELIZED PATH.

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

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

4. A PEDESTRIAN CHANNELIZER USING A BARRIER (MINIMUM REQUIREMENTS)

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

5. 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.

6. ALL DEVICES USED TO CANALIZE PEDESTRIAN FLOW SHALL BE ROUNDED SUCH THAT GAPS DO NOT ALLOW PEDESTRIANS TO PASS FROM THE CHANNELIZED PATH.

7. A LONGITUDINAL CHANNELIZING DEVICE FOR PEDESTRIANS SHALL BE 32 INCHES HIGH OR GREATER.

SPECIFIC NOTES

1. DETECTABLE EDGES SHALL BE CONTINUOUS AND A MINIMUM OF 6 INCHES HIGH ABOVE THE WALKWAY SURFACE.

2. THE DETECTABLE EDGE SHALL BE A MINIMUM OF 6 INCHES HIGH ABOVE THE WALKWAY SURFACE.

3. HANDRAILING EDGE

- 1 INCH MAXIMUM
- 0.25 INCH MAXIMUM

4. PEDESTRIAN CHANNELIZER (MINIMUM REQUIREMENTS)

- 2" MAXIMUM
- 4" MAXIMUM
- 5% MAX. CROSS SLOPE

5. TEMPORARY PEDESTRIAN ACCESS ROUTE PASSING DETAIL

- 1" MIN.
- 0.5" MINIMUM

6. TEMPORARY WALKWAY SURFACE

- 0.25" INCH MAXIMUM
- 0.5" INCH MAXIMUM

7. PEDESTRIAN CHANNELIZER USING A BARRIER (MINIMUM REQUIREMENTS)

- 2" MAXIMUM
- 32" MIN.

8. TEMPORARY WALKWAY SURFACE

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

9. PEDESTRIAN CHANNELIZER USING A BARRIER (MINIMUM REQUIREMENTS)

- 200' MAX. SPACING FROM LAST PASSING SPACE
- 10' MIN

10. SIDEWALK BARRICADE

- 2" MIN.
- 14" MIN.

11. NARROW TEMPORARY PEDESTRIAN ACCESS ROUTE PASSING DETAIL

- 10' MIN.
- 14" MIN.

12. HANDRAILING EDGE

- 1 INCH MAXIMUM
- 0.25 INCH MAXIMUM

13. PEDESTRIAN CHANNELIZER (MINIMUM REQUIREMENTS)

- 2" MAXIMUM
- 32" MIN.

14. DETECTABLE EDGE SHALL BE CONTINUOUS AND A MINIMUM OF 6 INCHES HIGH ABOVE THE WALKWAY SURFACE.
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<th>Quantity</th>
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**Table Data:**

- **Key Code:** Identifiers for different services or projects.
- **Description:** Detailed description of the service or project.
- **Units:** The unit of measurement for the quantity.
- **Quantity:** The specified quantity or amount of the service or project.

**Notes:**

- The table represents a list of services or projects with their respective codes, descriptions, units, and quantities.
- The table is structured to provide clear and concise information about each entry.
- The data is organized in a format that facilitates easy reading and understanding of the services or projects listed.

**Additional Information:**

- The table likely pertains to a specific context or project related to urban services, possibly in a city or a public service area.
- The data might be used for planning, budgeting, or tracking purposes.
- The table could be part of a larger document or report, which might contain additional context or explanations not visible in the provided snippet.