CITY OF KALAMAZOO, MICHIGAN

FORESMAN AVENUE

WATERMAIN REPLACEMENT

2020

ADMINISTRATION

JAMES RITSEMA - CITY MANAGER
JAMES BAKER, P.E. - PUBLIC SERVICES DIRECTOR
STEPHEN SKALSKI, P.E. - ASSISTANT CITY ENGINEER - WATER RESOURCES

LOCATION MAP

BEFORE YOU DIG CALL MISS DIG 800-482-7171

MISS DIG 72 HOURS
Before Construction.
Are Bold To Aid In Reading The Drawings In Areas Of High Graphic Density.

Some Notes And Dimensions Numerical Designation Are Of Unknown Size.

* Aerial Lines, If Shown, Are Designated With Lower Case Letters
Alpha Designation Refers To Utility Type, Numerical Designation Refers To Pipe Nominal Diameter. Lines With No

UTILITY LINES:

SURVEYOR SYMBOLS:

TOPOGRAPHY LEGEND

STANDARD ABBREVIATIONS

PAVEMENT WORK LEGEND

DETOUR ROUTE AND LANE/ROADWAY CLOSURES

INDEX

NOTE:
1. ALL NOTES ON THE DRAWINGS BEAR THE SAME IMPORTANCE. SOME NOTES AND DIMENSIONS ARE
   BOLD TO AID IN READING THE DRAWINGS IN AREAS OF HIGH GRAPHIC DENSITY.
2. ACCURACY OF EXISTING ELEVATIONS AND DIMENSIONS IS NOT GUARANTEED. FIELD VERIFY
   BEFORE CONSTRUCTION.
### Alignment: FORESMAN AVE

<table>
<thead>
<tr>
<th>Description</th>
<th>PT Station</th>
<th>Northing</th>
<th>Easting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start</td>
<td>3:44:776</td>
<td>259174.2</td>
<td>29145.9</td>
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<td>259174.2</td>
<td>29145.9</td>
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<tr>
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<td>0.00</td>
<td>0.00</td>
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<tr>
<td>Parameter</td>
<td>Value</td>
<td>Parameter</td>
<td>Value</td>
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### Alignment: MICHIGAN AVE

<table>
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<th>Easting</th>
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</thead>
<tbody>
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<td>Start</td>
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<td>29168.7</td>
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<td>29168.7</td>
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</tbody>
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### XREFERENCED FILES:

- [CFERRELL](#)
- [SHR](#)
- [7543001G03](#)
- [G-3](#)
CONCRETE DRIVE WAYS WHERE NECESSARY

REMOVE & REPLACE SIDEWALK, CURB, & CURB CANALIZATION WHERE NECESSARY

TRENCH REPAIR TYPICAL

MICHIGAN AVE
STA. 0+00 TO 4+50

No. | Description | Required Quantity | Unit
--- | --- | --- | ---
1 | 1-1/2" WATER SERVICE W/ 1-1/2" 6" RUBBER | 58 | LF
2 | Hydrant, 10" | 1 | EA
3 | Valve Box, 8" | 1 | EA
4 | Hydrant, 6" | 1 | EA
5 | 4" Epoxy Coating | 1 | EA
6 | Hydrant, 6" | 1 | EA
7 | Hydrant, 6" 20 degree | 1 | EA
8 | Hydrant, 8" | 1 | EA
9 | Hydrant, 10" | 1 | EA
10 | Fire Hydrant, 15" | 100 | LF
11 | Fire Hydrant, 12" | 150 | LF
12 | Fire Hydrant, 10" | 200 | LF
13 | 15" RNTR, 12.5" Concrete | 50 | Set
14 | 15" RNTR, 12.5" Concrete | 50 | Set
15 | 15" RNTR, 12.5" Concrete | 50 | Set
16 | 15" RNTR, 12.5" Concrete | 50 | Set
17 | 15" RNTR, 12.5" Concrete | 50 | Set
1-1/4" WATER SERVICE W/ 1-1/4" X 3/4" CURBSTOP, CONNECT TO EX. 1" WATERMAIN

1-1/4" WATER SERVICE IN CURBSTOP, CONNECT TO EX. 1" WATERMAIN

1/2" WATER SERVICE, OPEN TO CURB CRAWL/FLARE COUPLING, CONNECT TO EX. 1/2" WATERMAIN

1307/1311 S MICHIGAN AVE

LATERAL IN PLACE 98. 4" WATERMAIN BELOW EX. 4" GAS

TRENCH REPAIR TOTAL: 35 DETAIL ON SHEET 10-D

CLOSEiping "C" VALVE AND REMOVING BOX

REMOVES & REPLACE CURBSTOP, CURVE & CURB W/ FLARE COUPLING, CONNECT TO EX. 1/2" WATERMAIN

MICHIGAN AVE
STA. 4+50 TO 9+00

1-1/4" WATER SERVICE W/ 1-1/4" X 3/4" CURBSTOP, CONNECT TO EX. 1/2" WATERMAIN

REMOVE BOX

No.  
1. Peer, Tony  
2. Fehr & Barney  
3. 1/2" Water Stop  
4. Valve Box, Box  
5. Water Valve, 2"  
6. Water Valve, 1/2"  
7. Aggregate box, 2-1/2"  
8. 3" Water Stop  
9. 3" Water Stop  
10. 3" Water Stop  
11. 3" Water Stop  
12. 3" Water Stop  
13. 3" Water Stop  
14. 3" Water Stop  

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RESIGNED IN PLACE 98. 4" WATERMAIN

CENTRAL LINE SURVEY

CAPTURED ON SHEET 10-D (1 PLACED)