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

- LIME CLUTTER PERMIT
  - CITY OF ANN ARBOR
  - PROJECT MANAGEMENT UNIT
- "NO PAIRING" SIGN PERMIT
  - CITY OF ANN ARBOR
  - PROJECT MANAGEMENT UNIT
- ENHANCEMENT, RETENTION & REGENERATION
tree-control (FFP)
  - CITY OF ANN ARBOR
  - SUBURBAN SERVICE
- FIRE-OF-WAY (FFP)
  - CITY OF ANN ARBOR
  - SUBURBAN SERVICE

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

- GOOD WATER MAIN CONSTRUCTION
  - DEPARTMENT OF ENVIRONMENTAL QUALITY
- S.D. SANTA SERNA CONSTRUCTION
  - DEPARTMENT OF ENVIRONMENTAL QUALITY
- MICHIGAN COUNTY MILE PERMIT
  - MICHIGAN COUNTY
- NORTHEAST MILE PERMIT
  - MICHIGAN COUNTY

CONTACT INFORMATION

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<th>CONTACT</th>
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<td>WATER</td>
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<tr>
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<td>ANN ARBOR</td>
<td>(313) 794-6010</td>
</tr>
<tr>
<td>ELECTRIC</td>
<td>ANN ARBOR</td>
<td>(313) 794-6010</td>
</tr>
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<td>TELEPHONE</td>
<td>ANN ARBOR</td>
<td>(313) 794-6010</td>
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<tr>
<td>GAS</td>
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CONTACT INFORMATION

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<tbody>
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<td>PLUMBING</td>
<td>ANN ARBOR</td>
<td>(313) 794-6010</td>
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PROJECT LEGEND

- EXISTING LEGEND
- PROPOSED LEGEND

CONTACT INFORMATION

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<th>CONTACT</th>
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<td>ANN ARBOR</td>
<td>(313) 794-6010</td>
</tr>
<tr>
<td>PRIVATE UTILITIES</td>
<td>ANN ARBOR</td>
<td>(313) 794-6010</td>
</tr>
</tbody>
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CONSTRUCTION SEQUENCE:

Stage 1 shall consist of providing temporary access along the edges of the project. The project will be marked with temporary fencing, guardrails, and other safety measures. The construction crew will be responsible for maintaining and removing these materials as work progresses. Stage 2 shall consist of providing temporary access along the work area. The project will be marked with temporary fencing, guardrails, and other safety measures. The construction crew will be responsible for maintaining and removing these materials as work progresses. Stage 3 shall consist of providing temporary access along the work area. The project will be marked with temporary fencing, guardrails, and other safety measures. The construction crew will be responsible for maintaining and removing these materials as work progresses.

SOIL EROSION CONTROL:

STAGE 1

Stage 1 shall consist of maintaining the work area clear of all equipment and materials. The work area shall be marked with temporary fencing, guardrails, and other safety measures. The construction crew shall be responsible for maintaining and removing these materials as work progresses. Stage 2 shall consist of maintaining the work area clear of all equipment and materials. The work area shall be marked with temporary fencing, guardrails, and other safety measures. The construction crew shall be responsible for maintaining and removing these materials as work progresses. Stage 3 shall consist of maintaining the work area clear of all equipment and materials. The work area shall be marked with temporary fencing, guardrails, and other safety measures. The construction crew shall be responsible for maintaining and removing these materials as work progresses.

CONSTRUCTION NOTES:

1. The Contractor shall provide all materials, labor, and equipment necessary for the construction of the project. The Contractor shall be responsible for the procurement of all materials, labor, and equipment necessary for the construction of the project. The Contractor shall be responsible for the procurement of all materials, labor, and equipment necessary for the construction of the project.

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BM 15
ELEV. 939.447
RAIL ROAD SPIKE IN WEST SIDE OF UTILITY POLE, EAST SIDE OF PONTIAC TRAIL, 60 FT.
NORTH OF DRIVE TO HOUSE # 3075

BM 16
ELEV. 940.596
SPIKE IN WEST SIDE OF UTILITY POLE, EAST SIDE OF PONTIAC TRAIL, NORTH OF PARKING AREA FOR "OLSON PARK"

BM 0006A
ELEV. 948.000
AAGRS PRIMARY CONTROL POINT-BRASS DISC AT THE SOUTH EAST CORNER OF PONTIAC TRAIL AND M-14

BM 11
STEAMER VALVE ON FIRE HYDRANT ON WEST SIDE OF PONTIAC TRAIL 30 FT. SOUTH OF CENTERLINE OF KNIGHTBRIDGE CIRCLE

BM 12
ELEV. 923.983
RAIL ROAD SPIKE IN WEST SIDE OF 18" OAK ON EAST SIDE OF PONTIAC TRAIL, 20 FT. NORTH OF DRIVE TO HOUSE # 2915

BM 13
ELEV. 937.310
RAIL ROAD SPIKE IN WEST SIDE OF 15" ELM ON EAST SIDE OF PONTIAC TRAIL, 200 FT. SOUTH OF CENTERLINE OF DHU VARREN

BM 101
ELEV. 938.670
AAGRS VERTICAL CONTROL POINT-BRASS DISC AT THE CORNER OF PONTIAC TRAIL AND DHU VARREN ROAD (NGS ELEV=938.70)

BM 8
ELEV. 918.522
SPIKE IN EAST SIDE OF UTILITY POLE, WEST SIDE OF PONTIAC TRAIL, 1ST POLE NORTH OF BENCH MARK # 7

BM 9
ELEV. 923.222
STEAMER VALVE ON FIRE HYDRANT ON WEST SIDE OF PONTIAC TRAIL 60 FT. NORTH OF DRIVE TO HOUSE # 2801

BM 10
ELEV. 915.579
RAIL ROAD SPIKE IN EAST SIDE OF 40" OAK ON WEST SIDE OF PONTIAC TRAIL, 110 FT. NORTH OF DRIVE TO HOUSE # 2857

BM 11
ELEV. 917.614
STEAMER VALVE ON FIRE HYDRANT ON WEST SIDE OF PONTIAC TRAIL 30 FT. SOUTH OF CENTERLINE OF KNIGHTBRIDGE CIRCLE
WORK ZONE BEGINS
TRAFFIC FINES DOUBLED
SANITARY SEWER LEAD SCHEDULE

<table>
<thead>
<tr>
<th>STATION</th>
<th>ADDRESS</th>
<th>FITTING</th>
<th>INSERT LENGTH (FT)</th>
<th>INSERT DIA. (IN)</th>
<th>INSERT RISE (FT)</th>
<th>LEAD SLOPE</th>
<th>LEAD LENGTH (FT)</th>
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<tr>
<td>0+0</td>
<td>000.00</td>
<td>C</td>
<td>5.5</td>
<td>6</td>
<td>301.91</td>
<td>4.15</td>
<td>14.0</td>
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NOTE: WORK SHALL BE HEADED AT ELAVATION 816.880.  PRIOR TO PROCEEDING, SEE SANITARY ENGINEER OR SUPERVISOR FOR DIRECTION.  ALL WORK MUST BE REVIEWED AND APPROVED IN PACE OF WORK.  SEE SANITARY ENGINEER.
BM 2
ELEV.  922.349
STEAMER VALVE ON FIRE HYDRANT
ON WEST SIDE OF PONTIAC TRAIL 115
FT. NORTH OF DRIVE TO HOUSE # 2520

BM 3
ELEV.  918.402
RAIL ROAD SPIKE IN WEST
SIDE OF UTILITY POLE, SOUTH
OF DRIVE TO HOUSE # 2600

SANITARY SEWER LEAD SCHEDULE

<table>
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<tr>
<th>STATION</th>
<th>ADDRESS</th>
<th>FITTING</th>
<th>LENGTH H (FT)</th>
<th>SIZE</th>
<th>INVERT OF MARK</th>
<th>HIGHER INVERT</th>
<th>LEAD WATER ID (IDRQ)</th>
<th>ELEV.</th>
<th>LENGTH PT</th>
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<td>ELVE</td>
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<td>896.37</td>
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SANITARY SEWER STRUCTURE TABLE

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<th>DIA</th>
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<th>TYPE</th>
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<td>4471</td>
<td>818</td>
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TRENCH DETAIL A, B, C

TRENCH DETAIL A, B, C

TRENCH DETAIL A, B, C

Sewer Lead Schedule

Sanitary Sewer Structure Table
SANITARY SEWER LEAD SCHEDULE

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<th>LENGTH (FT)</th>
<th>DIA. MAIN</th>
<th>INVERT (FT)</th>
<th>SLOPE</th>
<th>LEAD LENGTH (FT)</th>
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<td>6</td>
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<td>8</td>
<td>936.49</td>
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<tr>
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<td>8.5</td>
<td>936.49</td>
<td>1.05%</td>
<td>46.0</td>
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SANITARY SEWER STRUCTURE TABLE

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<th>DPH (IN)</th>
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<td>45</td>
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<tr>
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<td>24.00</td>
<td>45</td>
<td>VAMEA</td>
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<tr>
<td>4750</td>
<td>8x8</td>
<td>13.54</td>
<td>45</td>
<td>DEMA</td>
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Note: The diagram shows the proposed lead and invert details for the sanitary sewer system. The table summarizes the structural details of the lead and invert at different stations.
BM 10
ELEV. 915.579
RAIL ROAD SPIKE IN EAST SIDE OF 40" OAK
ON WEST SIDE OF PONTIAC TRAIL, 110 FT.
NORTH OF DRIVE TO HOUSE # 2857

BM 11
ELEV. 917.614
STEAMER VALVE ON FIRE HYDRANT ON
WEST SIDE OF PONTIAC TRAIL 30 FT. SOUTH
OF CENTERLINE OF KNIGHTBRIDGE CIRCLE
BM 4  
ELEV.  913.538  
RAIL ROAD SPIKE IN NORTH EAST SIDE OF UTILITY POLE, WEST SIDE OF PONTIAC TRAIL, 100 FT. NORTH OF NORTH DRIVE TO HOUSE # 2600

BM 5  
ELEV.  904.777  
RAIL ROAD SPIKE IN SOUTH EAST SIDE OF UTILITY POLE, WEST SIDE OF PONTIAC TRAIL, 1ST POLE NORTH OF BENCHMARK # 4

COMMUNICATION HANDHOLE

2-3" SCH 80 CONDUIT

5'5*5'6 56#
BM 2
ELEV.  922.349
STEAMER VALVE ON FIRE HYDRANT
ON WEST SIDE OF PONTIAC TRAIL 115
FT. NORTH OF DRIVE TO HOUSE # 2520

BM 3
ELEV.  918.402
RAIL ROAD SPIKE IN WEST
SIDE OF UTILITY POLE, SOUTH
OF DRIVE TO HOUSE # 2600

CONSTRUCTION KEY

PONTIAC TRAIL
PAVEMENT MARKING CROSS-HATCHING DETAIL

CROSSWALK DETAIL

STOP BAR DETAIL

BIKE SYMBOL DETAIL

DOTTED LINE DETAIL

TYPICAL DOUBLE YELLOW SEPARATION DETAIL