EXHIBIT 1

Public Notice: 17-15
Huntington District

Pittsburgh District

Buffalo District

HUC: 050400

HUC: 050301

HUC: 05040001

HUC: 05030101

Tuscarawas and Upper Ohio Mitigation Banks

Jewett-Germano Rd
Jewett, Harrison County, Ohio

January 2017

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Notes:
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January 2017
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EXISTING LOW FLOW LEVEL

EXISTING CHANNEL

EXISTING GROUND (TYP)

EXISTING LOW FLOW LEVEL

EXISTING GROUND (TYP)

PROPOSED CHANNEL

PROPOSED GROUND (TYP)

RIPARIAN BUFFER ZONE

TYPICAL PRIORITY 1 STREAM RESTORATION CROSS SECTION

SCALE: N.T.S.

TYPICAL PRIORITY 2 STREAM RESTORATION CROSS SECTION

SCALE: N.T.S.

TYPICAL CROSS SECTIONS
### Existing Stream Overview

<table>
<thead>
<tr>
<th>Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Watershed</td>
<td>Jefferson Creek</td>
</tr>
<tr>
<td>Drainage Area (Acres)</td>
<td>397</td>
</tr>
<tr>
<td>Flow Regime</td>
<td>Perennial</td>
</tr>
<tr>
<td>POB Northing</td>
<td>271866.2406</td>
</tr>
<tr>
<td>POB Easting</td>
<td>2398564.6416</td>
</tr>
<tr>
<td>POE Northing</td>
<td>270600.7000</td>
</tr>
<tr>
<td>POE Easting</td>
<td>2398165.0444</td>
</tr>
<tr>
<td>POB Elev. (ft)</td>
<td>1133.9</td>
</tr>
<tr>
<td>POE Elev. (ft)</td>
<td>1114.0</td>
</tr>
</tbody>
</table>

### As-Built Conditions

<table>
<thead>
<tr>
<th>Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>POB Northing</td>
<td></td>
</tr>
<tr>
<td>POB Easting</td>
<td></td>
</tr>
<tr>
<td>POE Northing</td>
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<tr>
<td>POE Easting</td>
<td></td>
</tr>
<tr>
<td>POB Elev. (ft)</td>
<td></td>
</tr>
<tr>
<td>POE Elev. (ft)</td>
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### Existing Stream Conditions

<table>
<thead>
<tr>
<th>Item</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Channel Length (ft)</td>
<td>1472</td>
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<tr>
<td>Valley Length (ft)</td>
<td>1325</td>
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<tr>
<td>Sinuosity</td>
<td>1.11</td>
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<tr>
<td>Valley Slope (ft/ft)</td>
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### Proposed Conditions

<table>
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<tr>
<th>Item</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Stream Type</td>
<td>C</td>
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<tr>
<td>Bed Type</td>
<td>riffle/pool</td>
</tr>
<tr>
<td>Channel Material</td>
<td>Mix 1</td>
</tr>
<tr>
<td>Manning's n</td>
<td>0.075</td>
</tr>
<tr>
<td>Velocity (f/s)</td>
<td>2.01</td>
</tr>
<tr>
<td>Discharge - Q (cfs)</td>
<td>28.53</td>
</tr>
<tr>
<td>Bankfull Width - Wbkf</td>
<td>13.33</td>
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<tr>
<td>Bankfull Depth - Dbkf</td>
<td>1.3300</td>
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<tr>
<td>Width to Depth Ratio - W/D</td>
<td>10.02</td>
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<tr>
<td>Channel Length (ft)</td>
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<tr>
<td>Channel Slope (ft/ft)</td>
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</tr>
<tr>
<td>Sinuosity</td>
<td>1.30</td>
</tr>
<tr>
<td>Valley Slope (ft/ft)</td>
<td>0.0120</td>
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<tr>
<td>Entrenchment Ratio - ER</td>
<td>&gt;2.2</td>
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<tr>
<td>Bankfull Area - (sf)</td>
<td>14.22</td>
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<tr>
<td>Wavelength (ft)</td>
<td>166</td>
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</table>

### Valley Grading Earthwork

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<tr>
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<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Cut - (cy)</td>
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<tr>
<td>Fill - (cy)</td>
<td>(1,966)</td>
</tr>
<tr>
<td>Net - (cy)</td>
<td>19.00</td>
</tr>
</tbody>
</table>

### Construction Notes:

Valley Grading Earthwork

- Cut - (cy): 1985
- Fill - (cy): (1,966)
- Net - (cy): 19.00

Existing Stream Overview

- Watershed: Jefferson Creek
- Drainage Area (Acres): 397
- Flow Regime: Perennial
- POB Northing: 271866.2406
- POB Easting: 2398564.6416
- POE Northing: 270600.7000
- POE Easting: 2398165.0444
- POB Elev. (ft): 1133.9
- POE Elev. (ft): 1114.0

Proposed Conditions

- Stream Type: C
- Bed Type: Riffle/Pool
- Channel Material: Mix 1
- Manning's n: 0.075
- Velocity (f/s): 2.01
- Discharge - Q (cfs): 28.53
- Bankfull Width - Wbkf: 13.33
- Bankfull Depth - Dbkf: 1.3300
- Width to Depth Ratio - W/D: 10.02
- Channel Length (ft): 1723
- Channel Slope (ft/ft): 0.010
- Sinuosity: 1.30
- Valley Slope (ft/ft): 0.0120
- Entrenchment Ratio - ER: >2.2
- Bankfull Area - (sf): 14.22
- Wavelength (ft): 166

As-Built Conditions

- POB Northing
- POB Easting
- POE Northing
- POE Easting
- POB Elev. (ft)
- POE Elev. (ft)