# LIGHTNER ROAD IMPROVEMENT PROJECT
MONTGOMERY COUNTY, OHIO
CITY OF VANDALIA

**Drawing Information**

**Location Map** (not to scale)

Latitude: 39°35'21"
Longitude: 84°12'44"

**Project Site Location**

---

**Project Description**

The base bid of this project involves the milling and resurfacing of approximately 3,800 ft of LIGHTNER ROAD between PETES PARK and NORTH GIVE DRIVE. The base bid of this project will also include lane medians for a future development and a turn lane addition at NORTH GIVE DRIVE.

The alternate bid of this project involves the milling and resurfacing of the remainder of LIGHTNER ROAD between PETES PARK and NORTH GIVE DRIVE. This remainder is approximately 4,300 ft.

**Specifications**

The standards specifications of the State of Ohio, Department of Transportation includes all changes and supplemental specifications listed in the proposal. Shall govern this improvement.

---

## Sheet Index

<table>
<thead>
<tr>
<th>Sheet No.</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-31</td>
<td>Title Sheet</td>
</tr>
<tr>
<td>1-41</td>
<td>Typical Sections</td>
</tr>
<tr>
<td>1-51</td>
<td>General Notes</td>
</tr>
<tr>
<td>1-61</td>
<td>Maintenance of Traffic Notes and Details</td>
</tr>
<tr>
<td>1-71</td>
<td>Setback Plan—Page 1</td>
</tr>
<tr>
<td>1-81</td>
<td>Setback Plan—Page 2</td>
</tr>
<tr>
<td>1-91</td>
<td>General Summary</td>
</tr>
<tr>
<td>1-101</td>
<td>Cross Sections</td>
</tr>
<tr>
<td>1-111</td>
<td>Traffic Control</td>
</tr>
<tr>
<td>1-121</td>
<td>DOT Standard Construction Drawings</td>
</tr>
<tr>
<td>1-131</td>
<td>Supplemental Specifications</td>
</tr>
</tbody>
</table>

---

### DOT Standard Construction Drawings

<table>
<thead>
<tr>
<th>DO NO.</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP-31</td>
<td>7/28/14</td>
</tr>
<tr>
<td>SP-41</td>
<td>7/28/13</td>
</tr>
<tr>
<td>SP-51</td>
<td>7/28/12</td>
</tr>
<tr>
<td>SP-61</td>
<td>7/28/11</td>
</tr>
<tr>
<td>SP-71</td>
<td>7/28/10</td>
</tr>
<tr>
<td>SP-81</td>
<td>7/28/09</td>
</tr>
</tbody>
</table>

---

**Approval for Construction**

Approved for construction by: 

Montgomery County Engineer

Date: July 2018

---

**Table of Contents**

<table>
<thead>
<tr>
<th>Sheet No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Title Sheet</td>
</tr>
<tr>
<td>2</td>
<td>Typical Sections</td>
</tr>
<tr>
<td>3</td>
<td>General Notes</td>
</tr>
<tr>
<td>4</td>
<td>Maintenance of Traffic Notes and Details</td>
</tr>
<tr>
<td>5</td>
<td>Setback Plan—Page 1</td>
</tr>
<tr>
<td>6</td>
<td>Setback Plan—Page 2</td>
</tr>
<tr>
<td>7</td>
<td>General Summary</td>
</tr>
<tr>
<td>8</td>
<td>Cross Sections</td>
</tr>
<tr>
<td>9</td>
<td>Traffic Control</td>
</tr>
</tbody>
</table>

---

**Special Provisions**

---

**Footer**

Montgomery County Engineer

Director, City of Vandalia, Department of Water
LIGHTNER ROAD IMPROVEMENT PROJECT
MONTGOMERY COUNTY, OHIO

TYPICAL SECTIONS

NOTES:
1. ALL CONSTRUCTION METHODS AND MATERIALS SHALL BE IN CONFORMANCE WITH THE MOST RECENT EDITION OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONTRACT AND MATERIAL SPECIFICATIONS.
2. ALL TRENCHES WITHIN THE RIGHT OF WAY MUST BE BACKFILLED WITH COMPLIANT STABILIZED MATERIAL.
3. ALL 442 ASPHALT CONCRETE CONTAIN NEW MATERIALS.
4. APPLY A 4"Ribbed of liquid asphalt Emulsion to the final course of 442 and allow the Emulsion to cure within five (5) days after paving.

"UNLESS OTHERWISE SHOWN ON CROSS SECTIONS"
CONSTRUCTION EXISTING MARKINGS

The construction shown on the existing markings is to be used as a guide for the construction of the improvements.

CONSTRUCTION MARKINGS

The construction markings shown on the construction plan are to be used as a guide for the construction of the improvements.

Maintenance of Traffic Notes and Details

1. The contractor shall be responsible for maintaining traffic signs, signals, and other markings in accordance with the applicable traffic control devices for the duration of the project.

2. Any changes to traffic patterns must be approved in advance by the appropriate traffic authority.

3. Access to any public property must be maintained at all times during construction.

4. Maintenance of traffic signs and markings shall be performed in accordance with the applicable traffic control devices.

5. Any changes to traffic patterns must be approved in advance by the appropriate traffic authority.

6. Maintenance of traffic signs and markings shall be performed in accordance with the applicable traffic control devices.

Access to any public property must be maintained at all times during construction.

Date: [Insert Date]

Signature: [Insert Signature]

[Insert Contact Information]
Maintenance of Traffic Notes

1. It is the intention to perform all required work with the least inconvenience to and the maximum safety of the contractor and traveling public. Any variances from the maintenance of traffic notes need to be approved by the County Engineer.

2. All work and traffic control devices shall be in accordance with Item 814 of the 2016 ODOT construction and material specifications, other applicable portions of the 2016 ODOT specifications, and the Ohio Manual of Uniform Traffic Control Devices. Payment for all labor, equipment and materials shall be included in the lump sum contract price for Item 814, maintaining traffic, unless firmed separately in the plan.

3. Before work begins, the contractor shall provide the Engineer the name(s) and telephone number(s) of responsible person(s) who can be contacted at any time, 24 hours a day, by the Engineer. These person(s) shall be responsible for placing or replacing necessary traffic control devices to maintain traffic.

4. The contractor shall follow ODOT standard construction drawings MT 191.90 for road closures.

5. Access to all adjacent property owners shall be maintained at all times unless permission is obtained from the property owner or Engineer for access to be halted.

6. At any point during construction, any existing, temporary or proposed signing in place which conflicts with present traffic shall be removed from view by removal, bagging, or other approved method.

7. The work limits shown are for physical construction only. The installation and operation of all traffic control devices required by the Ohio Manual of Uniform Traffic Control Devices shall be provided by the contractor whether inside or outside these limits.

8. Lightner Road may be closed for three (3) months to complete the road improvement project construction. The contractor shall inform the Engineer a minimum of twenty-one (21) days in advance of the scheduled road closure to allow for authorization by the Montgomery County Commissioners. The work is scheduled to begin in summer 2019. The proposed Detour Route was approved by Sam Philpot, Miami County Engineer’s Office on February 04, 2019.

9. The roadbed shall not be opened to traffic until final signing and pavement markings are installed.

Detour Plan Notes

1. Erection order to Detour to Detour
2. Removal order to Detour
3. The following sign(s) shall be mounted on type 3 barricades and shall have amber flashing barricade warning lights placed above them as shown. Sign Numbers: 9, 10 & 13.
4. The following signs should have amber flashing barricade warning lights placed above them as shown. Sign numbers: 11 & 12.
5. The following signs should have Lightner Road street name signs placed above them. Sign numbers: 1 thru 6. Signs shall have a black legend on reflective orange plate of 36" X 18" or 36" X 8".
Maintenance of Traffic Notes

1. It is the intention to perform all required work with the least inconvenience to and the maximum safety of the contractor and traveling public. Any variances from the maintenance of traffic notes need to be approved by the County Engineer.

2. All work and traffic control devices shall be in accordance with Item 614 of the 2016 ODOT construction and material specifications, other applicable portions of the 2016 ODOT specifications, and the Ohio Manual of Uniform Traffic Control Devices. Payment for all labor, equipment, and materials shall be included in the lump sum contract price for Item 614, maintaining traffic, unless itemized separately in the plan.

3. Before work begins, the contractor shall provide the Engineer the name(s) and telephone number(s) of responsible person(s) who can be contacted at any time, 24 hours a day by the Engineer. These person(s) shall be responsible for placing or replacing necessary traffic control devices to maintain traffic.

4. The contractor shall follow ODOT standard construction drawings MT 101.60 for road closures.

5. Access to all adjacent property owners shall be maintained at all times unless permission is obtained from the property owner or Engineer for access to be halted.

6. All signs and traffic devices shall be physically installed only. The installation and operation of all traffic control devices required by the Ohio Manual of Uniform Traffic Control Devices shall be provided by the contractor whether inside or outside these limits.

7. Lightner Road may be closed for three (3) months to complete the road improvement project construction. The contractor shall inform the Engineer a minimum of twenty-one (21) days in advance of the scheduled road closure to allow for authorization by the Montgomery County Commissioners. The work is scheduled to begin in summer 2019. The proposed Detour Route was approved by Sam Philpot, Miami County Engineer’s Office on February 04, 2019.

8. The roadway shall not be opened to traffic until final signing and pavement markings are installed.

Detour Plan Notes

1. Erection order 1 to 5.
2. Removal order 5 to 1.
3. The following sign(s) shall be mounted on Type 3 barricades and shall have amber flashing barricade warning lights placed above them as shown. Sign Numbers: 5, 10 & 13.
4. The following signs should have amber flashing barricade warning lights placed above them as shown. Sign numbers: 11 & 12.
5. The following signs should have Lightner Road street name signs placed above them. Sign numbers: 1 thru 9. Signs in the lower right corner shall be reflected orange planks of 36" x 18" or 36" x 8".
### BASE BID GENERAL SUMMARY

<table>
<thead>
<tr>
<th>ITEM</th>
<th>GRAND TOTAL</th>
<th>UNIT</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>102</td>
<td>14251</td>
<td>S.Y.</td>
<td>PAVEMENT PLANING, ASPHALT CONCRETE</td>
</tr>
<tr>
<td>103</td>
<td>1425</td>
<td>GAL.</td>
<td>TACK COAT, TRACKLESS TACK, INTERMEDIATE COURSE</td>
</tr>
<tr>
<td>104</td>
<td>594</td>
<td>C.Y.</td>
<td>ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (448)</td>
</tr>
<tr>
<td>105</td>
<td>1.54</td>
<td>MILE</td>
<td>EDGE LINE, 4&quot;</td>
</tr>
<tr>
<td>106</td>
<td>0.77</td>
<td>MILE</td>
<td>CENTER LINE</td>
</tr>
</tbody>
</table>

### ALTERNATE BID GENERAL SUMMARY

<table>
<thead>
<tr>
<th>ITEM</th>
<th>GRAND TOTAL</th>
<th>UNIT</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>102</td>
<td>10810</td>
<td>S.Y.</td>
<td>PAVEMENT PLANING, ASPHALT CONCRETE</td>
</tr>
<tr>
<td>103</td>
<td>594</td>
<td>C.Y.</td>
<td>ASPHALT CONCRETE INTERMEDIATE COURSE, 9.5MM, TYPE A (448)</td>
</tr>
</tbody>
</table>

### PAVEMENT

<table>
<thead>
<tr>
<th>ITEM</th>
<th>GRAND TOTAL</th>
<th>UNIT</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>102</td>
<td>14251</td>
<td>S.Y.</td>
<td>PAVEMENT PLANING, ASPHALT CONCRETE</td>
</tr>
<tr>
<td>103</td>
<td>1425</td>
<td>GAL.</td>
<td>TACK COAT, TRACKLESS TACK, INTERMEDIATE COURSE</td>
</tr>
<tr>
<td>104</td>
<td>594</td>
<td>C.Y.</td>
<td>ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (448)</td>
</tr>
<tr>
<td>105</td>
<td>1.54</td>
<td>MILE</td>
<td>EDGE LINE, 4&quot;</td>
</tr>
<tr>
<td>106</td>
<td>0.77</td>
<td>MILE</td>
<td>CENTER LINE</td>
</tr>
</tbody>
</table>

### ROADWAY

<table>
<thead>
<tr>
<th>ITEM</th>
<th>GRAND TOTAL</th>
<th>UNIT</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>201</td>
<td>1</td>
<td>LUMP</td>
<td>CLEARING AND GRUBBING</td>
</tr>
<tr>
<td>202</td>
<td>3</td>
<td>EACH</td>
<td>HEADWALL REMOVED</td>
</tr>
<tr>
<td>202</td>
<td>75</td>
<td>FT.</td>
<td>PIPE REMOVED, 24&quot; AND UNDER</td>
</tr>
<tr>
<td>202</td>
<td>2</td>
<td>EACH</td>
<td>MAILBOX REMOVED</td>
</tr>
<tr>
<td>202</td>
<td>40</td>
<td>FT.</td>
<td>SPECIAL-FILL AND PLUG EXISTING CONDUIT</td>
</tr>
<tr>
<td>202</td>
<td>1375</td>
<td>FT.</td>
<td>FENCE REMOVED</td>
</tr>
<tr>
<td>203</td>
<td>1394</td>
<td>C.Y.</td>
<td>EXCAVATION</td>
</tr>
<tr>
<td>203</td>
<td>371</td>
<td>C.Y.</td>
<td>EMBAKMENT</td>
</tr>
<tr>
<td>203</td>
<td>1023</td>
<td>C.Y.</td>
<td>EXCAVATION HAUL OFF</td>
</tr>
<tr>
<td>206</td>
<td>4220</td>
<td>S.Y.</td>
<td>LIME KILN DUST STABILIZED SUBGRADE 7%, 14 INCHES DEEP</td>
</tr>
<tr>
<td>206</td>
<td>140</td>
<td>TON</td>
<td>LIME KILN DUST STABILIZED SUBGRADE 7%, 14 INCHES DEEP</td>
</tr>
<tr>
<td>690</td>
<td>2</td>
<td>EACH</td>
<td>SPECIAL-MAILBOX SUPPORT SYSTEM, SINGLE</td>
</tr>
</tbody>
</table>

### DRAINAGE

<table>
<thead>
<tr>
<th>ITEM</th>
<th>GRAND TOTAL</th>
<th>UNIT</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>611</td>
<td>60</td>
<td>FT.</td>
<td>12&quot; CONDUIT, TYPE D</td>
</tr>
<tr>
<td>623</td>
<td>1</td>
<td>LUMP</td>
<td>CONSTRUCTION LAYOUT STAKES</td>
</tr>
<tr>
<td>624</td>
<td>1</td>
<td>LUMP</td>
<td>MOBILIZATION</td>
</tr>
</tbody>
</table>

### EROSION CONTROL

<table>
<thead>
<tr>
<th>ITEM</th>
<th>GRAND TOTAL</th>
<th>UNIT</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>659</td>
<td>1611</td>
<td>S.Y.</td>
<td>SEEDING AND MULCHING, CLASS 1</td>
</tr>
<tr>
<td>659</td>
<td>81</td>
<td>S.Y.</td>
<td>REPAIR SEEDING AND MULCHING</td>
</tr>
<tr>
<td>659</td>
<td>0.22</td>
<td>TON</td>
<td>COMMERCIAL FERTILIZER</td>
</tr>
<tr>
<td>659</td>
<td>4</td>
<td>M.GAL.</td>
<td>WATER</td>
</tr>
</tbody>
</table>

### MAINTENANCE OF TRAFFIC

<table>
<thead>
<tr>
<th>ITEM</th>
<th>GRAND TOTAL</th>
<th>UNIT</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>614</td>
<td>1</td>
<td>LUMP</td>
<td>WORKING TRAFFIC</td>
</tr>
<tr>
<td>622</td>
<td>1</td>
<td>LUMP</td>
<td>TRAFFIC CONTROL</td>
</tr>
<tr>
<td>622</td>
<td>1</td>
<td>LUMP</td>
<td>TRAFFIC CONTROL</td>
</tr>
<tr>
<td>622</td>
<td>1</td>
<td>LUMP</td>
<td>TRAFFIC CONTROL</td>
</tr>
<tr>
<td>622</td>
<td>1</td>
<td>LUMP</td>
<td>TRAFFIC CONTROL</td>
</tr>
</tbody>
</table>

### WATER

<table>
<thead>
<tr>
<th>ITEM</th>
<th>GRAND TOTAL</th>
<th>UNIT</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>644</td>
<td>9</td>
<td>EACH</td>
<td>FIRE HYDRANT REMOVED AND RESET</td>
</tr>
<tr>
<td>644</td>
<td>1</td>
<td>EACH</td>
<td>VALVE BOX ADJUSTED TO GRADE</td>
</tr>
</tbody>
</table>

### MISCELLANEOUS

<table>
<thead>
<tr>
<th>ITEM</th>
<th>GRAND TOTAL</th>
<th>UNIT</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>619</td>
<td>3</td>
<td>MONTH</td>
<td>FIELD OFFICE, TYPE B</td>
</tr>
</tbody>
</table>
Lightner Road Improvement Project
City of Vandalia
Montgomery County, Ohio

Cross Sections

BEGIN PROJECT-2+50.00
LIGHTNER ROAD IMPROVEMENT PROJECT
CITY OF VANDALIA
MONTGOMERY COUNTY, OHIO

CROSS SECTIONS

113630
JULY 2018

IBI GROUP
ibigroup.com
23 Triangle Park Drive
Cincinnati OH  45246
fax 513 881 2263

Contact: Jeff Koehn Ext: 51907
tel 513 942 3141

SHEET TOTAL

VOLUME

END AREA

SEEDING

0 10 20 30 40 50 10 20 30 40 50 60 60

1" = 1' 1" = 1' 10" L A

0 10 20 30 40 50 10 20 30 40 50

1" = 5' 1" = 5' 1" = 5'
LIGHTNER ROAD IMPROVEMENT PROJECT
CITY OF VANDALIA
MONTGOMERY COUNTY, OHIO
CROSS SECTIONS

SCALE:
HORIZONTAL: 1" = 5'
VERTICAL: 1" = 5'

VOLUME
END AREA
SEEDING

0 10 20 30 40 50
0 10 20 30 40 50 60

SHEET TOTAL

1 inch = 5 ft. (IN FEET)
LIGHTNER ROAD IMPROVEMENT PROJECT

CITY OF VANDALIA
MONTGOMERY COUNTY, OHIO

SCALE:
HORIZONTAL: 1" = 5'
VERTICAL: 1" = 5'

CROSS SECTIONS

SHEET TOTAL
VOLUME END AREA
SEEDING

IBI GROUP
23 Triangle Park Drive
Cincinnati OH 45246
fax 513 881 2263

Contact: Jeff Koehn Ext: 51907
tel 513 942 3141

IBI GROUP
ibigroup.com
LIGHTNER ROAD IMPROVEMENT PROJECT
CITY OF VANDALIA
MONTGOMERY COUNTY, OHIO

CROSS SECTIONS

GRAPHIC SCALE
1 inch = 5'

SHEET TOTALS

VOLUME END AREA

0 10 20 30 40 50 10 20 30 40 50 60

0 10 20 30 40 50 10 20 30 40 50 60

SEEDING

0 10 20 30 40 50 10 20 30 40 50 60

0 10 20 30 40 50 10 20 30 40 50 60

JULY 2018

54+00

55+00

55+50

54+50

JAG

JBK

113630

/59

IBI GROUP
23 Triangle Park Drive
Cincinnati, OH 45246
Fax 513 881 2263
Tel 513 942 3141
Contact: Jeff Koehn Ext: 51907
ibigroup.com
CITY OF VANDALIA
LIGHTNER ROAD IMPROVEMENT
PROJECT
MONTGOMERY COUNTY, OHIO

CROSS SECTIONS

SCALE:
HORIZONTAL: 1" = 5'
VERTICAL: 1" = 5'

LIGHTNER ROAD
IMPROVEMENT
PROJECT

JULY 2018

DRAFT SHEET
DESIGN CHECK
1 inch =         ft.

GRAPHIC SCALE

IBI GROUP
ibigroup.com
23 Triangle Park Drive
Cincinnati OH  45246
fax 513 881 2263

JAG JAG JBK

IBI GROUPIBI GROUP
Contact: Jeff Koehn Ext: 51907
tel 513 942 3141
MATCHLINE STA. 76+00 (SEE SHEET 58)

NOTES:
1. PER DOT IN DI: 10, CONTRACTOR SHALL REMOVE ALL EXISTING CURB AND PAVEMENT MARKINGS PRIOR TO PLACING THE PROPOSED PAVEMENT MARKINGS.

LEGEND

- ITEM 544 = CURB LINE
- ITEM 544 = CENTER LINE DOUBLE YELLOW SOLID
- ITEM 544 = CENTER LINE YELLOW SOLID/ARROW
- ITEM 544 = CHAINING/LOW LINE 6"
- ITEM 544 = LANE MARKER
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE RELOCATED
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

TRAFFIC CONTROL

CITY OF VANDALIA
LIGHTNER ROAD IMPROVEMENT PROJECT
MONTGOMERY COUNTY, OHIO

113630/59
JULY 2018

IBI GROUP
23 Triangle Park Drive
Cincinnati OH 45246
fax 513 881 2263
ibigroup.com

Contact: Jeff Koehn Ext: 51907
tel 513 942 3141