TRAIL PLANS
SINGING SANDS TRAIL - PHASE 2
MICHIGAN CITY PARKS AND RECREATION
PROJECT NO. 1500324

P.E.
R/W
CONST.

MULTI-USE TRAIL CONSTRUCTION IN THE CITY OF MICHIGAN CITY, INDIANA WHICH IS APPROXIMATELY
150 MILES NORTHWEST OF INDIANAPOLIS, INDIANA. THE TRAIL IS LOCATED IN SECTIONS 28 & 29,
TOWNSHIP 38 NORTH, RANGE 4 WEST, MICHIGAN TOWNSHIP, LAPORTE COUNTY.

GROSS LENGTH - 1.583 mi.
NET LENGTH - 1.583 mi.
MAX. GRADE - 5.00%

BEGIN PROJECT:
P.O.T. Sta. 11+43.19 "PR-1" =
O.P.O.T. Sta. 11+53.58 "A", 24.11' RL

END PROJECT:
P.O.T. Sta. 37+84.63 "B", 43.58' LL

BEGIN PROJECT EXCEPTION:
P.O.T. Sta. 67+69.14 "A", 161.65' Lt.
O.P.O.T. Sta. 66+78.81 "PR-1" =
P.O.T. Sta. 11+43.19 "PR-1" =
O.P.O.T. Sta. 11+53.58 "A", 24.11' RL

END PROJECT EXCEPTION:
P.O.T. Sta. 37+84.63 "B", 43.58' LL

LATITUDE: 41°43'26" N.
LONGITUDE: 86°52'34" W.

BEGIN PROJECT:
LATITUDE: 41°43'14" N.
LONGITUDE: 86°54'12" W.

END PROJECT:
LATITUDE: 41°43'26" N.
LONGITUDE: 86°52'34" W.

PRESIDENT
STEVE JANUS

VICE PRESIDENT
MICHAEL PALMER

BOARD OF PUBLIC WORKS & SAFETY

INFORMATION REQUESTED HEIR PERMITTED TO BE USED W/ THESE PLANS

MICHIGAN CITY PARKS AND RECREATION
BEGIN PROJECT:
LATITUDE: 41°43'26" N.
LONGITUDE: 86°52'34" W.
END PROJECT:
LATITUDE: 41°43'14" N.
LONGITUDE: 86°54'12" W.
GENERAL NOTES

All earth shoulders, median areas, and cut and fill slopes shall be plain or mulch seeded except where sodding is specified.

The final cross sections of the grading contract will be the original cross sections of the paving contract. However, partial or complete cross sections shall be taken if necessary to determine the actual excavation quantities.

Existing asphalt pavement located outside the construction limits, between Sta. 00+00 and Sta. 00+00 shall be removed as directed.

The quantity of Peat "Excavation" as shown on the plans has been estimated on the basis of theoretical cross-sections by using treatment of existing fills, treatment by removal, or treatment by displacement where each treatment applies.

The paper relocation will be cross sectioned by the Engineer before construction.

** REPRESENTS GENERAL NOTES REQUIRED

REPRESENTS GENERAL NOTES REQUIRED

The quantity of Peat "Excavation" as shown on the plans has been estimated on the basis of theoretical cross-sections by using treatment of existing fills, treatment by removal, or treatment by displacement where each treatment applies.

The paper relocation will be cross sectioned by the Engineer before construction.

** REPRESENTS GENERAL NOTES REQUIRED
Transition From Tilt Section To Crown Or Tilt Section (And Vice Versa): Use 50' Superelevation Transition (W/ 10' Vertical Curves) Rotated About The Centerline Of Construction.

Sta. 22+50 "PR-1" To Sta. 23+00 "PR-1"

Sta. 27+40 "PR-1" To Sta. 27+90 "PR-1"

SEED MIXTURE, "U"

TYPICAL CONCRETE TRAIL CROSS SECTION

Grade As Shown On Profile & Sawcut

Scale: 3/16" = 1'-0"

LEFT TO RIGHT

- Slopes May Vary Where Conditions Warrant. See Cross Sections

Sta. 40+64.70 "PR-1" To Sta. 45+36.62 "PR-1"

Sta. 45+74.37 "PR-1" To Sta. 45+36.62 "PR-1"

Limits of Subgrade Treatment Type III

1.5% (Varies)

2'-0" 5'-0" 5'-0" 2'-0"

FILL SECTION

CUT SECTION

4:1 (Typ.)

- Cones Combined Curb & Gutter

PCCP FOR SIDEWALKS CONSISTING OF:

4" PCCP on 6" COMPACTED AGGREGATE No. 53, BASE on SUBGRADE TREATMENT TYPE III

2% 2'-0" 2'-0"

HMA FOR PATCHING:

165#/SYS HMA SURFACE TYPE A, 9.5 mm on 275#/SYS HMA INTERMEDIATE TYPE A, 19.0 mm on 330#/SYS HMA BASE TYPE A, 25.0 mm on

6" COMPACTED AGGREGATE No. 53, BASE

27 27 27 27

LEGEND

1) PCER FOR SIDEWALKS CONSISTING OF:

- 4" FCP on 4" COMPACTED AGGREGATE No. 53, BASE on SUBGRADE TREATMENT TYPE III

2) PCCP FOR SIDEWALKS: 6" PCCP on 6" COMPACTED AGGREGATE No. 53, BASE on SUBGRADE TREATMENT TYPE III

3) CONCRETE COMBINED CURB & GUTTER

4) SEED MIXTURE, "U"
NOTE: SEE THE PLAN & PROFILE AND BOARDWALK DETAIL SHEETS FOR BOARDWALK STATIONING & LOCATIONS.

HMA FOR SIDEWALKS CONSISTING OF:
140#/SYS HMA SURFACE TYPE B, on
220#/SYS HMA INTERMEDIATE TYPE B, on
6" COMPACTED AGGREGATE No. 53, BASE on
SUBGRADE TREATMENT TYPE III

SEED MIXTURE, "U"

PEDESTRIAN FENCE

MODULAR BLOCK RETAINING WALL

NOTE: SEE THE PLAN & PROFILE AND BOARDWALK DETAIL SHEETS FOR BOARDWALK STATIONING & LOCATIONS.
BEGIN PROJECT
O.P.O.T. Sta. 11+53.58 "A", 24.11' RL.

NOTE: MIRROR TRAFFIC CONTROL
FOR WESTBOUND LANE CLOSURE.

INDIANA DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC

LEGEND

END CONSTRUCTION 
ROAD CONSTRUCTION AHEAD 
STEERED MW 13000, SPEED LIMIT 30 MPH 
FLAGGER (SYMBOL) 
ROAD WORK AHEAD 
RIGHT LANE END (MERGE LEFT) 
CONSTRUCTION SIGN 
FLASHING ARROW BOARD 
TRAFFIC FLOW
 existing grade: 0.94%  
profile grade: 0.66%  
-0.04%  
0.10%  
0.40%  
-0.20%  

pvi sta. 25+00
pvi el. 586.50
60' v.c.

pvi sta. 23+00
pvi el. 585.80
60' v.c.

pvi sta. 27+00
pvi el. 587.00
60' v.c.

pvi sta. 24+00
pvi el. 585.75
60' v.c.

pvi sta. 22+00
pvi el. 585.14
60' v.c.

pvi sta. 26+00
pvi el. 586.60
60' v.c.

pvi sta. 28+00
pvi el. 586.80
60' v.c.

1746' of pedestrian fence req'd lt. access drive (c-stn.)

sec. 28, t. 38 n., r. 4 w.

the city of michigan city

DAVID & MARLENE LINDERMAN TRUST

the city of michigan city

app. i

4

sec. line

n58°09'03"e

n40°56'32"e

n44°01'31"e

n52°02'02"e

line "b"

p.i. sta. 22+14.01 "b"

Δ = 17°12'31" lt.

(no curve run)

p.i. sta. 24+35.32 "b"

Δ = 3°04'59" rt.

(no curve run)

p.i. sta. 25+69.82 "b"

Δ = 8°00'31" rt.

(no curve run)

the city of michigan city

flood zone AE limits (100 year)

construction limits

constr. limits

22+34.74  135.72'  obsrv. well

22+51.95  9.75'  gate

22+58.21  9.64'  gate

23+17.22  26.33'  obsrv. well

23+17.89  25.55'  obsrv. well

24+15.13  143.90'  obsrv. well

25+82.32  8.05'  obsrv. well

25+97.01  6.46'  obsrv. well

26+10.54  136.84'  obsrv. well

NOTE: ALL R/W & TOPOGRAPHY POINTS ARE DESCRIBED FROM LINE "B" UNLESS OTHERWISE SPECIFIED.

the city of michigan city

floodway limits

18" cmp

construction limits

22+01.51  135.72'  obsrv. well

22+02.56  10.74'  gate

22+06.06  10.63'  gate

23+03.14  26.33'  obsrv. well

23+03.61  25.55'  obsrv. well

23+09.55  143.90'  obsrv. well

25+36.18  8.05'  obsrv. well

25+40.76  6.46'  obsrv. well

26+01.51  136.84'  obsrv. well

the city of michigan city

line "PR-2"

p.i. sta. 22+01.51 "PR-2"

Δ = 32°12'56" lt.

r = 100.00'

t = 28.88'

L = 56.23'

e = 4.09'

p.i. sta. 23+03.14 "PR-2"

Δ = 1°22'47" lt.

r = 1000.00'

t = 12.04'

L = 24.08'

e = 0.07'

p.i. sta. 23+78.00 "PR-2"

Δ = 2°34'44" lt.

r = 1000.00'

t = 22.51'

L = 45.01'

e = 0.25'

p.i. sta. 25+36.18 "PR-2"

Δ = 10°09'34" rt.

r = 500.00'

t = 44.45'

L = 88.66'

e = 1.97'

the city of michigan city

check: design engineer

check: designed: for approval:

drawn: recommended date

vertical scale

horizontal scale

survey book

designation

project

sheet

bridge file

floodway limits

18" cmp

construction limits

n50°42'46"e

n44°30'42"e

n43°07'55"e

n40°33'11"e

n52°02'02"e

line "PR-2"

p.i. sta. 22+01.51 "PR-2"

Δ = 32°12'56" lt.

r = 100.00'

t = 28.88'

L = 56.23'

e = 4.09'

p.i. sta. 23+03.14 "PR-2"

Δ = 1°22'47" lt.

r = 1000.00'

t = 12.04'

L = 24.08'

e = 0.07'

p.i. sta. 23+78.00 "PR-2"

Δ = 2°34'44" lt.

r = 1000.00'

t = 22.51'

L = 45.01'

e = 0.25'

p.i. sta. 25+36.18 "PR-2"

Δ = 10°09'34" rt.

r = 500.00'

t = 44.45'

L = 88.66'

e = 1.97'
16. Construction Limits

15. Adjacent Land Use, Including Upstream Watershed

1. Index Showing Locations Of Required Plan Elements

Between 26th Street And 28th Street.

2. Specific Points Where Stormwater Discharge Will Leave The Site

4W; From An Existing Outlet to Durkees Run Located South Of Warren Place, Overland Park.


A Grade Stabilization Will Be Required For The Project. See The Erosion Control Sheets & Erosion Control Details.


11. Temporary Surface Stabilization Methods Appropriate For Each Season.

12. Seed Sediment Control Will Be Handled Via Erosion Control Blankets And Riprap. See The Erosion Control Sheets & Erosion Control Details.

13. Channel Using An Erosion Resistant Lining, If Necessary.


15. Remove Sediment Accumulated Behind Each Dam As Needed To Maintain Channel Depth. Remove Sediment When It Reaches Half Of The Fence Height Taking Care Not To

16. Check For And Repair Any Adjacent Erosion. Remove Without Compromising Adjacent Structures

17. Permanent Sediment Control Measures Shown On The Erosion Control Details.

18. A Grade Stabilization Shall Be Required For The Project. See The Erosion Control Sheets & Erosion Control Details.

19. A Grade Stabilization Will Be Required For The Project. See The Erosion Control Sheets & Erosion Control Details.


21. Locations Of Proposed Soil Stockpiles And/or Borrow Disposal Areas

The Soil Stockpile Will Be Located Northwest Of The Site On The South Side Of East Avenue Between 26th Street And 28th Street.

22. Location Of All NFS Elements

The Contractor Shall Ensure That Revegetated Areas Become Fully Established And Shall Maintenance On The Storm Sewer System At Regularly Scheduled Intervals.

23. Construction Limits

24. Pre-Construction (10 yr.) 24" Pipe Outlet Material Spilled, Probable Time And Source Of Spill, Weather Conditions, Personnel At Scene

As Shown On The Erosion Control Details.

25. Erosion Control Details.

The Written Record Shall Be Made Available Upon

26. All Disturbed Ground Will Be Seeded Immediately After Grading Or When The Project Is

The Written Record Shall Be Made Available Upon

27. Stormwater Outlet Protection Specifications

Stormwater Outlet Protection Will Be Handled Via Riprap, Rock Filter Berms, Or Rock Check Dams. See The Erosion Control Sheets & Erosion Control Details.

28. Check Dams. Do Not Allow Excess Concrete To Be Dumped On Site, Except In Designated Areas.

29. Concrete Washout: Washout Of Concrete Trucks On Or In Designated Areas Only. Do Not Allow Excess Concrete To Be Dumped On Site, Open, Split Top Of Storm Drain, Open, Split Top Of Storm Drain, Open, Split Top Of Storm Drain

30. Location On All NFSs, Lakes, And Water Courses On And Adjacent To The Site.

31. Identification Of All Receiving Waters

32. Stormwater Will Over A Rain Event And Weekly. The Written Record Shall Be Made Available Upon

33. Maintenance On The Storm Sewer System At Regularly Scheduled Intervals.

34. Erosion Control Details.

The Written Record Shall Be Made Available Upon

35. Maintenance On The Storm Sewer System At Regularly Scheduled Intervals.

36. Erosion Control Details.

The Written Record Shall Be Made Available Upon

37. Maintenance On The Storm Sewer System At Regularly Scheduled Intervals.

38. Erosion Control Details.

The Written Record Shall Be Made Available Upon

BEGIN PROJECT EXCEPTION


---

LEGEND

- DROP INLET PROTECTION
- FROWNTIER PROTECTION (SILT FENCE)
- KERB DITCH CHECK
- CULVERT PIPE PROTECTION

---

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL
END PROJECT
O.F.O.T. Sta. 37+04.63 'B', 43.59' Lt.

CHECKED:
DESIGN ENGINEER
CHECKED:
DESIGNED:
FOR APPROVAL:
DRAWN:
RECOMMENDED DATE
CONTRACT
VERTICAL SCALE
SURVEY BOOK
PROJECT SHEET
DESIGNATION
OF HORIZONTAL SCALE
BRIDGE FILE
BFS NO.
DEPARTMENT OF TRANSPORTATION
INDIANA
AH
DV
MS
EROSION CONTROL
EROSION CONTROL
1"=20'
1"=20'
358
R-38317
N/A
1500324
40
90
1500324
5628T
SF

LEGEND
DROP INLET PROTECTION
PERIMETER PROTECTION (SILT FENCE)
RIPRAP DITCH CHECK
CULVERT FINE PROTECTION
CONTRACT  

Erosion Control Details

**Erosion Control Notes (Cont.)**

- **Concrete Erosion Control Notes (Cont.)**
  - Use straw bales or natural vegetation to temporarily stabilize slopes.
  - Ensure proper drainage to prevent erosion.
  - Install temporary fencing to protect sensitive areas.

**Data Tabulation**

- **Data Tabulation**
  - Use a spreadsheet to track all relevant data, including measurements, soil types, and erosion control methods.
  - Regularly update the data to ensure accurate and current information.

**Sediment Control Measures**

- **Sediment Control Measures**
  - Implement sediment traps at all access points to prevent sediment from entering storm drains.
  - Monitor sediment levels regularly to ensure compliance with regulations.

**Storm Water Management**

- **Storm Water Management**
  - Use storm water ponds and detention basins to manage runoff.
  - Implement best management practices to reduce the amount of sediment entering storm water systems.

**Erosion Control Measures**

- **Erosion Control Measures**
  - Use erosion control blankets to cover exposed soil areas.
  - Apply mulch or grass seed to stabilize soil.

**Erosion Control Blankets**

- **Erosion Control Blankets**
  - Use erosion control blankets made of short-fiber synthetic fabric.
  - Apply the blankets directly to the soil surface.

**Sodding**

- **Sodding**
  - Use wild sodding to cover exposed soil areas.
  - Apply topsoil to the soil surface.

**Temporary Gravel Construction Entrance/Exit Pad:**

- **Temporary Gravel Construction Entrance/Exit Pad**
  - Use temporary gravel construction entrance/exit pads to control erosion.
  - Use temporary gravel construction entrance/exit pads to control erosion.

**EROSION CONTROL NOTES**

- **EROSION CONTROL NOTES**
  - Use erosion control blankets to cover exposed soil areas.
  - Apply mulch or grass seed to stabilize soil.

**Erosion Control Blankets**

- **Erosion Control Blankets**
  - Use erosion control blankets made of short-fiber synthetic fabric.
  - Apply the blankets directly to the soil surface.

**Sodding**

- **Sodding**
  - Use wild sodding to cover exposed soil areas.
  - Apply topsoil to the soil surface.

**Temporary Gravel Construction Entrance/Exit Pad:**

- **Temporary Gravel Construction Entrance/Exit Pad**
  - Use temporary gravel construction entrance/exit pads to control erosion.
  - Use temporary gravel construction entrance/exit pads to control erosion.

**EROSION CONTROL NOTES**

- **EROSION CONTROL NOTES**
  - Use erosion control blankets to cover exposed soil areas.
  - Apply mulch or grass seed to stabilize soil.

**Erosion Control Blankets**

- **Erosion Control Blankets**
  - Use erosion control blankets made of short-fiber synthetic fabric.
  - Apply the blankets directly to the soil surface.

**Sodding**

- **Sodding**
  - Use wild sodding to cover exposed soil areas.
  - Apply topsoil to the soil surface.

**Temporary Gravel Construction Entrance/Exit Pad:**

- **Temporary Gravel Construction Entrance/Exit Pad**
  - Use temporary gravel construction entrance/exit pads to control erosion.
  - Use temporary gravel construction entrance/exit pads to control erosion.
**SNWPP INFORMATION** Must Be Displayed Prominently Across The Top Of The Sign, As Shown In The Detail.

Sign To Be Constructed Of A Rigid Material, Such As Routed Or Outdoor Sign Board. Sign Must Be Constructed In A Manner To Protect Documents From Damage Due To Weather. (Wind, Sun, Weather, Etc.)

1. By The Plainfield MS4 Operator.
2. Permits On The Sign As Required.
3. NOTES: Throughout Construction And Until The Notice-Of-Termination (NOT) Is Filed For The Permit.
4. Views As To Cause A Safety Hazard.

The SWPPP Information Sign Must Be Located Near The Construction Entrance Of This Project. The Sign Shall Be Located Outside Of Public Right-Of-Way And Easements Unless Approved By The Highway Authority.

**NOTES:**
- The SWPPP Information Sign Must Be Located Near The Construction Entrance Of This Project, Such That It Is Accessible And Readable By The General Public, But Not Disturbing Woes As To Cause A Safety Hazard.
- All Posted Documents Must Be Maintained In A Clearly Readable Condition At All Times Through Construction And Until The Notice-Of-Termination (NOT) Is Filed For The Permit.
- The Contractor Shall Post Other Storm Water And/Or Erosion And Sediment Control Related Documentation (Binder And Site Maps) On The Site.
- All Posted Documents Must Be Maintained In A Clearly Readable Condition At All Times Through Construction And Until The Notice-Of-Termination (NOT) Is Filed For The Permit.

**SILT FENCE (SEDIMENT FENCE) DETAIL**

- NOTE: The fence design is a minimum requirement for use as a sediment fence. It shall be designed and constructed to meet the requirements of the local permitting authority.
- The fence shall be constructed of metal, synthetic, or wood posts, depending on the local permitting authority.
- The fence shall be spaced such that the distance between posts is not greater than 15 feet. The height of the fence shall be at least 42 inches above the ground.
- The fence shall be topped with a metal plate or other material as specified by the local permitting authority.
- The fence shall be installed in a manner that allows for easy access to the area beyond the fence. The fence shall not block any necessary access.
- The fence shall be maintained in a good condition and replaced if it becomes damaged or ineffective.

**TEMPORARY GRAVEL CONSTRUCTION ENTRANCE DETAIL**

- NOTE: The temporary gravel construction entrance shall be constructed of compacted soil.
- The entrance shall be temporary and shall be removed after the construction project is completed.
- The entrance shall be designed and constructed to allow for easy access to the construction site.
- The entrance shall be designed to allow for easy access to the construction site.
- The entrance shall be constructed to allow for easy access to the construction site.

**SILT FENCE (SEDIMENT FENCE) DETAIL**

- NOTE: The fence design is a minimum requirement for use as a sediment fence. It shall be designed and constructed to meet the requirements of the local permitting authority.
- The fence shall be constructed of metal, synthetic, or wood posts, depending on the local permitting authority.
- The fence shall be spaced such that the distance between posts is not greater than 15 feet. The height of the fence shall be at least 42 inches above the ground.
- The fence shall be topped with a metal plate or other material as specified by the local permitting authority.
- The fence shall be installed in a manner that allows for easy access to the area beyond the fence. The fence shall not block any necessary access.
- The fence shall be maintained in a good condition and replaced if it becomes damaged or ineffective.

**TEMPORARY GRAVEL CONSTRUCTION ENTRANCE DETAIL**

- NOTE: The temporary gravel construction entrance shall be constructed of compacted soil.
- The entrance shall be temporary and shall be removed after the construction project is completed.
- The entrance shall be designed and constructed to allow for easy access to the construction site.
- The entrance shall be designed to allow for easy access to the construction site.
- The entrance shall be constructed to allow for easy access to the construction site.

**SILT FENCE (SEDIMENT FENCE) DETAIL**

- NOTE: The fence design is a minimum requirement for use as a sediment fence. It shall be designed and constructed to meet the requirements of the local permitting authority.
- The fence shall be constructed of metal, synthetic, or wood posts, depending on the local permitting authority.
- The fence shall be spaced such that the distance between posts is not greater than 15 feet. The height of the fence shall be at least 42 inches above the ground.
- The fence shall be topped with a metal plate or other material as specified by the local permitting authority.
- The fence shall be installed in a manner that allows for easy access to the area beyond the fence. The fence shall not block any necessary access.
- The fence shall be maintained in a good condition and replaced if it becomes damaged or ineffective.

**TEMPORARY GRAVEL CONSTRUCTION ENTRANCE DETAIL**

- NOTE: The temporary gravel construction entrance shall be constructed of compacted soil.
- The entrance shall be temporary and shall be removed after the construction project is completed.
- The entrance shall be designed and constructed to allow for easy access to the construction site.
- The entrance shall be designed to allow for easy access to the construction site.
- The entrance shall be constructed to allow for easy access to the construction site.

**SILT FENCE (SEDIMENT FENCE) DETAIL**

- NOTE: The fence design is a minimum requirement for use as a sediment fence. It shall be designed and constructed to meet the requirements of the local permitting authority.
- The fence shall be constructed of metal, synthetic, or wood posts, depending on the local permitting authority.
- The fence shall be spaced such that the distance between posts is not greater than 15 feet. The height of the fence shall be at least 42 inches above the ground.
- The fence shall be topped with a metal plate or other material as specified by the local permitting authority.
- The fence shall be installed in a manner that allows for easy access to the area beyond the fence. The fence shall not block any necessary access.
- The fence shall be maintained in a good condition and replaced if it becomes damaged or ineffective.

**TEMPORARY GRAVEL CONSTRUCTION ENTRANCE DETAIL**

- NOTE: The temporary gravel construction entrance shall be constructed of compacted soil.
- The entrance shall be temporary and shall be removed after the construction project is completed.
- The entrance shall be designed and constructed to allow for easy access to the construction site.
- The entrance shall be designed to allow for easy access to the construction site.
- The entrance shall be constructed to allow for easy access to the construction site.

**SILT FENCE (SEDIMENT FENCE) DETAIL**

- NOTE: The fence design is a minimum requirement for use as a sediment fence. It shall be designed and constructed to meet the requirements of the local permitting authority.
- The fence shall be constructed of metal, synthetic, or wood posts, depending on the local permitting authority.
- The fence shall be spaced such that the distance between posts is not greater than 15 feet. The height of the fence shall be at least 42 inches above the ground.
- The fence shall be topped with a metal plate or other material as specified by the local permitting authority.
- The fence shall be installed in a manner that allows for easy access to the area beyond the fence. The fence shall not block any necessary access.
- The fence shall be maintained in a good condition and replaced if it becomes damaged or ineffective.

**TEMPORARY GRAVEL CONSTRUCTION ENTRANCE DETAIL**

- NOTE: The temporary gravel construction entrance shall be constructed of compacted soil.
- The entrance shall be temporary and shall be removed after the construction project is completed.
- The entrance shall be designed and constructed to allow for easy access to the construction site.
- The entrance shall be designed to allow for easy access to the construction site.
- The entrance shall be constructed to allow for easy access to the construction site.
NOTE: The pedestrian fence shall have a maximum opening of 6" between rails below a height of 27". Pedestrian fence shall have a maximum opening of 8" above a height of 27".
<table>
<thead>
<tr>
<th>Section</th>
<th>Cut Area (Sq. Ft.)</th>
<th>Cut Vol (Cys.)</th>
<th>Fill Area (Sq. Ft.)</th>
<th>Fill Vol (Cys.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>11+00</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>11+50</td>
<td>9</td>
<td>2</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>12+00</td>
<td>7</td>
<td>14</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>12+50</td>
<td>5</td>
<td>11</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

**Notes:**
- **CHECKED:**
- **DESIGNED:**
- **DRAWN:**
- **CONTRACT VERTICAL SCALE**
- **SURVEY BOOK**
- **PROJECT SHEET**
- **DESIGNATION OF HORIZONTAL SCALE**
- **BRIDGE FILE**
- **SCALE:** 1" = 5'

**CROSS SECTIONS**

**LINE "PR-1"**

**INDIANA DEPARTMENT OF TRANSPORTATION**

**SINGING SANDS TRAIL - PHASE 2**

**Scale:** 1" = 5'
<table>
<thead>
<tr>
<th>Cut Area (Sq. Ft.)</th>
<th>Cut Vol (Cys.)</th>
<th>Fill Area (Sq. Ft.)</th>
<th>Fill Vol (Cys.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>17</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>7</td>
<td>11</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>8</td>
<td>17</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>10</td>
<td>16</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**CHECKED:**

**DESIGNED:**

**DRAWN:**

**CONTRACT:**
<table>
<thead>
<tr>
<th>Cut Area (Sq. Ft.)</th>
<th>Cut Vol (Cys.)</th>
<th>Fill Area (Sq. Ft.)</th>
<th>Fill Vol (Cys.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>6</td>
<td>9</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>13</td>
<td>28</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>18</td>
<td>21</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

**Cut Area (Sq. Ft.)**

**Cut Vol (Cys.)**

**Fill Area (Sq. Ft.)**

**Fill Vol (Cys.)**
| Sheet Number | Designation | Scale | Project | Department of Transportation | Indiana | CROSS SECTIONS
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>358</td>
<td>SINGING SANDS TRAIL - PHASE 2</td>
<td>1&quot; = 5'</td>
<td>1500324</td>
<td>BFS NO. 5628T</td>
<td>LINE &quot;PR-1&quot;</td>
<td>SINGING SANDS TRAIL - PHASE 2</td>
</tr>
<tr>
<td>63+50</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>585</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>590</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>595</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>600</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1978</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2017</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2075</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>391</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Cut Area (Sq. Ft.):**

- 0

**Fill Area (Sq. Ft.):**

- 18

**Cut Vol (Cys.):**

- 0

**Fill Vol (Cys.):**

- 74
Cut Area (Sq. Ft.) | Cut Vol (Cys.) | Fill Area (Sq. Ft.) | Fill Vol (Cys.)
--- | --- | --- | ---
7 | 13 | 3 | 5
9 | 15 | 2 | 4
8 | 16 | 1 | 3

<table>
<thead>
<tr>
<th>Cut Area (Sq. Ft.)</th>
<th>Cut Vol (Cys.)</th>
<th>Fill Area (Sq. Ft.)</th>
<th>Fill Vol (Cys.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>18</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>13</td>
<td>22</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>12</td>
<td>24</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

CAP
BOUNDARY

CHECKED:
DESIGNED:
DRAWN:
CONTRACT

VERTICAL SCALE: 1" = 5'

CROSS SECTIONS
CUT
FILL

LINE "PR-2"

DEPARTMENT OF TRANSPORTATION
INDIANA

SINGING SANDS TRAIL - PHASE 2
<table>
<thead>
<tr>
<th>Cut Area (Sq. Ft.)</th>
<th>Cut Vol (Cys.)</th>
<th>Fill Area (Sq. Ft.)</th>
<th>Fill Vol (Cys.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**Singing Sands Trail - Phase 2**

**Department of Transportation**

**Survey Book**

**Designation**

**Checkered:**

**Drawn:**

**Contract**

**Scale:** 1" = 5'

**Cross Sections**

**Cut**

**Fill**

**Line "PR-2"**

**BFS No.**

**Design:**