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UNOFFICIAL WEBSITE COPY
**GENERAL NOTES**

1. This project is to be constructed in accordance with the Standard Specifications for Highway Construction, Delaware Department of Transportation Standards, and any other specifications referenced in the contract documents.

2. Electronic Project Files that will be made available to the Awarded Contractor include:

   - ASCE, SHVC, and EMPERSON documents
   - CAD files with construction elements
   - All plan sheets in PDF format
   - Existing digital terrain model, in JTFI file format, compatible with software currently used by Contractor
   - Proposed digital terrain model, in JTFI file format, compatible with software currently used by Contractor
   - PDF in file format, containing the proposed 3D view of the proposed digital terrain model site

   **Notes:** The document entitled "Release for Delivery of Documents in Electronic Form to a Contractor" is not in the electric file of any electronic project files.

   - Plans that will be made available to the award contractor include:
     - Cross-sections will be made available to the award contractor.
     - Right-of-way plans in PDF format.

3. Project Notes that will be made available to the award contractor include:

   - Project Notes Section 100
   - Project Notes Section 200
   - Project Notes Section 600

4. Any damage to items noted to be relocated or impacted by the Contractor shall be repaired and/or replaced prior to the Contractor's departure.

   - The Contractor shall deliver all excess mill material to the Delaware Department of Transportation's Talley Yard.
   - Two existing corrugated metal pipe arches - 8'-6" x 5'-11" each.

**SECTION 100**

1. Any damage to items noted to be relocated or impacted by the Contractor shall be repaired and/or replaced prior to the Contractor's departure.

2. The Contractor shall construct the culverts at the selected points to the nearest available roadway, and the Contractor shall be responsible for the proper installation and location of the culvert.

**SECTION 200**

3. Items 1 to 60 under Item 200 - Amount of Structures and Decorations shall include, but not be limited to, the following:

   - All excavated areas to be reconstructed or otherwise required to be in the existing footprint or within the existing footprint.
   - All items noted on the plans or as directed by the Engineer.
   - All items noted on the plans or as directed by the Engineer.
   - All items noted on the plans or as directed by the Engineer.
   - All items noted on the plans or as directed by the Engineer.

4. The Contractor shall remove trees greater than 6 inches in diameter and along a 200-foot area - clearing and grubbing.

5. RockParcel Variation:

   - Rock parcels are to be adjusted to reflect the actual profile of the rock parcels from what has been measured. The measured quantities for the items listed below have been increased 28% over the quantities calculated:
     - Item 200-200: Excavation of rock parcels
     - Item 200-205: Riprap storage
     - Item 200-210: Mass concrete, Class A
     - Item 200-215: Reinforcement, Class C
     - Item 200-220: Reinforcement, Class A
   - The Contractor shall submit a work schedule to the Engineer for the removal of trees, clearing and grubbing, and rock parcels variation.

**SECTION 600**

8. System and elevation data for drainage systems are to be included in the planning extent and to the center of the structure for functional roads and roads.
The document contains a typical section diagram for a project on Perkins Run. It details various materials and construction specifications for the project area, including:

- Superpave Type C, PG 64-22 (carbonate stone)
- Superpave Type B, PG 64-22
- Graded aggregate base course, Type B
- I.P.C.C. curb and gutter Type 2 and
- Graded aggregate base course, Type B

The diagram shows the station from 11+00 to 15+00 on Parkside Boulevard. The materials listed are:

- Superpave Type C
- Superpave Type B
- Graded aggregate base course
- 4" Graded aggregate base course, Type B
- Wood post and rail fence

The legend includes various items and their corresponding code numbers. The project is a typical section for BR 1-065 on Parkside Boulevard over Perkins Run.
CURVE #1 IS NOT TANGENT TO THE STRAIGHT ELEMENTS OF THE ROADWAY HAVING THE BEARINGS

Tangent Direction: S 35°04'07.56" E
Radial Direction: N 86°27'23.60" E
Chord Direction: S 27°58'54.75" W
Radial Direction: S 62°01'5.25" E
Tangent Direction: 41.55
External: 35.42
Middle Ordinate: 250.98
Chord: 147.22
Tangent: 264.11
Length: 23°52'23.67"
Degree of Curvature (Arc): 63°03'2.31" Left
Delta: 240.00
Radius: 638942.56
655073.46
15+27.17
(10002)
PT
638804.67
655269.89
(10003)
CC
638822.07
654988.87
14+10.28
(10100)
PI
638692.06
655057.95
12+63.06
(10001)
PC

HORIZONTAL / VERTICAL CONTROL DATA

CONSTRUCTION ALIGNMENT CONTROL

NOTE: 1. CURVE #1 IS NOT TANGENT TO THE STRAIGHT ELEMENTS OF THE ROADWAY HAVING THE BEARINGS

SCALE 30 FEET

HORIZONTAL AND VERTICAL CONTROL

NOTE: HORIZONTAL - THIS PROJECT IS REFERENCED TO THE DELAWARE STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM OF 1983 (NAD 83).

VERTICAL - THIS PROJECT IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
PROPOSED BR

TWO (2) - 8'-7" x 5'-11"

EXISTING CORRUGATED METAL PIPE ARCHES

MILL AND OVERLAY

110
120
130
140
150

EL E V A T I O N  (F T )

E le v .  1 27 .21
P V C  1 2 + 05 .32
E le v .  1 1 7.48
L o w  1 4 + 1 7 .96
E le v .  1 1 9.40
P V T  1 4 + 70 .41

\[ \text{Slop} = \frac{-7.34\%}{1}\]

\[ K = 28.97 \]

\[ G_2 = 1.81\% \]

\[ G_1 = -7.34\% \]

\[ L_2 = 132.54' \]

\[ L_1 = 132.54' \]

Length = 265.09'

Direction = Sag

Type of Curve = Symmetric Parabola

PARKSIDE BLVD (N103230)
TYPICAL WOOD POST AND RAIL FENCE SECTION

NOTES:
1. REFER TO DELDOT STANDARD CONSTRUCTION DETAIL M-4 FOR FENCE DETAILS (TYP.)
2. COMPOSITE MATERIAL MUST BE FIRE AND CORROSIVE ALTERNATIVE APPRVED OF ENGINEER.

PEDESTRIAN CONNECTION

NOTE: REMOVABLE SURFACE INSTALLABLE MANSION SYSTEM NOT SHOWN FOR CLARITY

COORDINATE LIST

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ARCH FOOTER PASSED UNDER ITEM #610000 - P.C.C. MASONRY, CLASS A OR RETAINING WALL FOUNDATION PAID UNDER ITEM #610015 - P.C.C. MASONRY, CLASS C

NOTES:
1. ITEM #610000 - PRECAST CONCRETE ARCH PAID UNDER ITEM #705009 - FOUNDATION DETAILS
2. ITEM #705001 - P.C.C. MASONRY, CLASS C FOUNDATION PAID UNDER ITEM #610015 - P.C.C. MASONRY, CLASS C

COARSE AGGREGATE
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**NOTES:**
1. SOIL BORING LOGS ARE CREATED BY THE DELAWARE DEPARTMENT OF TRANSPORTATION.
2. SOIL SAMPLING 2 IN. OUTSIDE DIA. SPLT BARREL SAMPLES DRIVEN WITH A 140 LB HAMMER IN CONCRETE.
3. ALL DEPTHS GIVEN ARE IN FEET.
4. EXCAVATION HOLE SIZES/SHAPE AND DEPTH WERE CHANGABLE TO DETERMINE ROCK EXPOSURE. SOIL SAMPLING AND PERFORMED. PECHE NEED TO BE CONSIDERED IN ALL BLANK SHEET FOR SKEW LOCATIONS.
5. SOIL BORING LOGS ARE LABELED AS PB-1 AND PB-2.
**SEQUENCE OF CONSTRUCTION:**

1. **Temporary Diversion:***
   - Complete clearing and grading (item #905001) in existing stream channel.
   - Install stream diversion (item #909005) 10 feet wide across the stream by 5 feet long in the direction of flow towards the existing structure.
   - The lowest elevation of the upstream sandbag dike.
   - Connect silt fence (item #905001) to sandbag dikes to enclose the work area as indicated on this plan.
   - Use east pump (item #909005) to divert the stream flow into the stream diversion pipe (item #909005) 10 feet wide across the stream by 5 feet long in the direction of flow towards the existing structure.

2. **Diversion Pipe:***
   - The stream diversion (item #909005) will consist of a temporary diversion pipe only, during structure installation and subsequent construction.
   - The approved sediment and stormwater trapping device at the stabilized outfall or on the existing area shall be kept clear of debris and other stable debris as approved by the engineer.

3. **Diversion Pipe Installation:***
   - Complete the installation of the stream diversion pipe (item #909005) 10 feet wide across the stream by 5 feet long in the direction of flow towards the existing structure.
   - The engineer will sign the construction sequence sheet. If the final acceptance of the project is not completed within three months prior to the expiration of the approved sediment and stormwater trapping device, then the contractor shall be responsible for the entire cost of the existing structure, and place the temporary structure installation and subsequent construction.

4. **Temporary Erosion Control:***
   - Remove all temporary erosion and sediment control devices after vegetation growth is established.
   - Install erosion control devices (item #905001) to enclose the work area as indicated on this plan.
   - Use east pump (item #909005) to divert the stream flow into the stream diversion pipe (item #909005) 10 feet wide across the stream by 5 feet long in the direction of flow towards the existing structure.
   - The lowest elevation of the upstream sandbag dike.

5. **Streambed Stabilization:***
   - Complete the installation of the stream diversion pipe (item #909005) 10 feet wide across the stream by 5 feet long in the direction of flow towards the existing structure.
   - The approved sediment and stormwater trapping device at the stabilized outfall or on the existing area shall be kept clear of debris and other stable debris as approved by the engineer.

6. **Erosion Control Devices:***
   - Complete the installation of the temporary erosion and sediment control devices after vegetation growth is established.
   - Install erosion control devices (item #905001) to enclose the work area as indicated on this plan.
   - Use east pump (item #909005) to divert the stream flow into the stream diversion pipe (item #909005) 10 feet wide across the stream by 5 feet long in the direction of flow towards the existing structure.
   - The lowest elevation of the upstream sandbag dike.

7. **Temporary Erosion Control:***
   - Complete the installation of the temporary erosion and sediment control devices after vegetation growth is established.
   - Install erosion control devices (item #905001) to enclose the work area as indicated on this plan.
   - Use east pump (item #909005) to divert the stream flow into the stream diversion pipe (item #909005) 10 feet wide across the stream by 5 feet long in the direction of flow towards the existing structure.
   - The lowest elevation of the upstream sandbag dike.

8. **Temporary Erosion Control:***
   - Complete the installation of the temporary erosion and sediment control devices after vegetation growth is established.
   - Install erosion control devices (item #905001) to enclose the work area as indicated on this plan.
   - Use east pump (item #909005) to divert the stream flow into the stream diversion pipe (item #909005) 10 feet wide across the stream by 5 feet long in the direction of flow towards the existing structure.
   - The lowest elevation of the upstream sandbag dike.

9. **Temporary Erosion Control:***
   - Complete the installation of the temporary erosion and sediment control devices after vegetation growth is established.
   - Install erosion control devices (item #905001) to enclose the work area as indicated on this plan.
   - Use east pump (item #909005) to divert the stream flow into the stream diversion pipe (item #909005) 10 feet wide across the stream by 5 feet long in the direction of flow towards the existing structure.
   - The lowest elevation of the upstream sandbag dike.

10. **Temporary Erosion Control:***
    - Complete the installation of the temporary erosion and sediment control devices after vegetation growth is established.
    - Install erosion control devices (item #905001) to enclose the work area as indicated on this plan.
    - Use east pump (item #909005) to divert the stream flow into the stream diversion pipe (item #909005) 10 feet wide across the stream by 5 feet long in the direction of flow towards the existing structure.
    - The lowest elevation of the upstream sandbag dike.

11. **Temporary Erosion Control:***
    - Complete the installation of the temporary erosion and sediment control devices after vegetation growth is established.
    - Install erosion control devices (item #905001) to enclose the work area as indicated on this plan.
    - Use east pump (item #909005) to divert the stream flow into the stream diversion pipe (item #909005) 10 feet wide across the stream by 5 feet long in the direction of flow towards the existing structure.
    - The lowest elevation of the upstream sandbag dike.

12. **Temporary Erosion Control:***
    - Complete the installation of the temporary erosion and sediment control devices after vegetation growth is established.
    - Install erosion control devices (item #905001) to enclose the work area as indicated on this plan.
    - Use east pump (item #909005) to divert the stream flow into the stream diversion pipe (item #909005) 10 feet wide across the stream by 5 feet long in the direction of flow towards the existing structure.
    - The lowest elevation of the upstream sandbag dike.

13. **Temporary Erosion Control:***
    - Complete the installation of the temporary erosion and sediment control devices after vegetation growth is established.
    - Install erosion control devices (item #905001) to enclose the work area as indicated on this plan.
    - Use east pump (item #909005) to divert the stream flow into the stream diversion pipe (item #909005) 10 feet wide across the stream by 5 feet long in the direction of flow towards the existing structure.
    - The lowest elevation of the upstream sandbag dike.

14. **Temporary Erosion Control:***
    - Complete the installation of the temporary erosion and sediment control devices after vegetation growth is established.
    - Install erosion control devices (item #905001) to enclose the work area as indicated on this plan.
    - Use east pump (item #909005) to divert the stream flow into the stream diversion pipe (item #909005) 10 feet wide across the stream by 5 feet long in the direction of flow towards the existing structure.
    - The lowest elevation of the upstream sandbag dike.

15. **Temporary Erosion Control:***
    - Complete the installation of the temporary erosion and sediment control devices after vegetation growth is established.
    - Install erosion control devices (item #905001) to enclose the work area as indicated on this plan.
    - Use east pump (item #909005) to divert the stream flow into the stream diversion pipe (item #909005) 10 feet wide across the stream by 5 feet long in the direction of flow towards the existing structure.
    - The lowest elevation of the upstream sandbag dike.

16. **Temporary Erosion Control:***
    - Complete the installation of the temporary erosion and sediment control devices after vegetation growth is established.
    - Install erosion control devices (item #905001) to enclose the work area as indicated on this plan.
    - Use east pump (item #909005) to divert the stream flow into the stream diversion pipe (item #909005) 10 feet wide across the stream by 5 feet long in the direction of flow towards the existing structure.
    - The lowest elevation of the upstream sandbag dike.

17. **Temporary Erosion Control:***
    - Complete the installation of the temporary erosion and sediment control devices after vegetation growth is established.
    - Install erosion control devices (item #905001) to enclose the work area as indicated on this plan.
    - Use east pump (item #909005) to divert the stream flow into the stream diversion pipe (item #909005) 10 feet wide across the stream by 5 feet long in the direction of flow towards the existing structure.
    - The lowest elevation of the upstream sandbag dike.

18. **Temporary Erosion Control:***
    - Complete the installation of the temporary erosion and sediment control devices after vegetation growth is established.
    - Install erosion control devices (item #905001) to enclose the work area as indicated on this plan.
    - Use east pump (item #909005) to divert the stream flow into the stream diversion pipe (item #909005) 10 feet wide across the stream by 5 feet long in the direction of flow towards the existing structure.
    - The lowest elevation of the upstream sandbag dike.

19. **Temporary Erosion Control:***
    - Complete the installation of the temporary erosion and sediment control devices after vegetation growth is established.
    - Install erosion control devices (item #905001) to enclose the work area as indicated on this plan.
    - Use east pump (item #909005) to divert the stream flow into the stream diversion pipe (item #909005) 10 feet wide across the stream by 5 feet long in the direction of flow towards the existing structure.
    - The lowest elevation of the upstream sandbag dike.

20. **Temporary Erosion Control:***
    - Complete the installation of the temporary erosion and sediment control devices after vegetation growth is established.
    - Install erosion control devices (item #905001) to enclose the work area as indicated on this plan.
    - Use east pump (item #909005) to divert the stream flow into the stream diversion pipe (item #909005) 10 feet wide across the stream by 5 feet long in the direction of flow towards the existing structure.
    - The lowest elevation of the upstream sandbag dike.

21. **Temporary Erosion Control:***
    - Complete the installation of the temporary erosion and sediment control devices after vegetation growth is established.
    - Install erosion control devices (item #905001) to enclose the work area as indicated on this plan.
    - Use east pump (item #909005) to divert the stream flow into the stream diversion pipe (item #909005) 10 feet wide across the stream by 5 feet long in the direction of flow towards the existing structure.
    - The lowest elevation of the upstream sandbag dike.
ENVIROMENTAL COMPLIANCE NOTES

1. GENERAL NOTES

A. THE PURPOSE OF THIS SHEET IS TO IDENTIFY THOSE ITEMS ASSOCIATED WITH ENVIRONMENTAL COMPLIANCE. IMPACT CALCULATIONS ARE FOR THE AGENCY, NOT THE CONTRACTOR, AND REPLIES TO ARE TO BE USED FOR ENVIRONMENTAL PLANNING.

B. IF A DEVIATION FROM THE APPROVED PLANS WILL HAVE A SIGNIFICANT IMPACT ON ANY MATERIAL OR CULTURAL RESOURCES, IT IS NECESSARY TO CONTACT THE ENVIRONMENTAL OFFICE AT (302) 732-3100 PRIOR TO MAKING ANY CHANGES.

C. USE OF THIS SHEET DOES NOT ALlocate THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ALL CONDITIONS SET FORTH IN THE ENVIRONMENTAL STATEMENT AND PERMITS.

2. NATURAL RESOURCE ISSUES

A. PERMIT REQUIREMENTS

I. U.S. FISH & WILDLIFE SERVICE
II. DEPARTMENT OF NATURAL RESOURCES & ENVIRONMENTAL CONTROL
III. U.S. ARMY CORPS OF ENGINEERS

B. COMPLIANCE NOTES

SHEET NO.
COUNTY
PARKSIDE BOULEVARD
NOT TO SCALE

3. CULTURAL RESOURCE ISSUES


B. CONSTRUCTION RESTRICTIONS: STATIONS - WEST END BRIDGE EXIT 119 E. BUSINESS 95 - NONE

C. GENERAL NOTES:

A. USE SILT FENCE OR CONSTRUCTION SAFETY FENCE ALONG THE LIMITS OF CONSTRUCTION IN ALL AREAS WHERE MATERIALS MAY BE STORED OR HANDLED TO LIMIT ENVIRONMENTAL IMPACT. IMPACT CALCULATIONS ARE FOR THE AGENCY, NOT THE CONTRACTOR, AND REPLIES TO ARE TO BE USED FOR ENVIRONMENTAL PLANNING.

B. USE ALL Silt controls as required in the environmental compliance sheets. Any contractor who fails to comply with the limits of construction is subject to penalties.

C. CLEAN UP ALL AREAS TO BE CLEANED PRIOR TO THE EROSION AND SEDIMENT CONTROL TESTING.

D. STATIONS - WEST END BRIDGE EXIT 119 E. BUSINESS 95 - NONE
TOTAL TEMPORARY OPEN WATER IMPACTS

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<td>OT-5</td>
<td>SUMP R/2</td>
<td>50.27</td>
<td>0.0032</td>
<td>3.48</td>
<td>USACE/DNREC</td>
</tr>
<tr>
<td>OT-6</td>
<td>DOWNSTREAM PIPELine</td>
<td>235.12</td>
<td>0.0142</td>
<td>17.39</td>
<td>USACE/DNREC</td>
</tr>
<tr>
<td>OT-7</td>
<td>DOWNSTREAM PIPELine</td>
<td>235.12</td>
<td>0.0142</td>
<td>17.39</td>
<td>USACE/DNREC</td>
</tr>
</tbody>
</table>

TOTAL TEMPORARY OPEN WATER IMPACTS: 1053.37

TOTAL OPEN WATER CREATION AREAS

<table>
<thead>
<tr>
<th>JURISDICTION</th>
<th>VOLUME (CY)</th>
<th>AREA (AC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>USACE/DNREC</td>
<td>78.68</td>
<td>0.0325</td>
</tr>
</tbody>
</table>

TOTAL OPEN WATER CREATION AREAS: 78.68

NOTICE: DELIVERED BY CHRISTIE BOWEN BW 06-26-2019 IN ACCORDANCE WITH US ARMY CORPS OF ENGINEERS WETLANDS DEFINITION MANUAL (DOD). NO WETLANDS EXIST WITHIN THE PROJECT LIMITS.

ORIGINAL SHEET PREPARED BY SHAWN RUSKA ON 05-20-2019. SHEET LAST REVISED ON 2-25-2019.

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