THE STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PLANS FOR:
BR 3-507 ON US113
OVER IRON BRANCH

CONTRACT NUMBER: T201307301
FEDERAL AID PROJECT NUMBER: EBRN-S113(17)

COUNTY: SUSSEX  M.R. #: 113

DECLARATION:
THIS PLAN SET IS INTENDED TO BE A GUIDELINE FOR PREPARING A SET OF PLANS INVOLVING THE CONSTRUCTION OF A PRECAST CONCRETE THREE-PIECE FRAME. IT IS NOT INTENDED TO BE A SET OF STANDARDS. THE DESIGN ENGINEER IS STILL RESPONSIBLE FOR PERFORMING THE DESIGN AND NECESSARY DOCUMENTATION USING HIGHER ENGINEERING JUDGEMENT AND EXPERTISE.
WHEN POSSIBLE, THE BRIDGES AND STRUCTURES SECTION PREFERENCES TO COMBINE THE 'INDEX OF SHEETS' AND 'ADDENDA AND REVISIONS' SHEETS.

IN ADDITION, IT IS PREFERRED TO LEAVE THE 'SECTION' BOX BLANK, AND NOT INCLUDE BLANK ADDENDA AND REVISIONS BLOCKS.

FUTURE EXAMPLE PLANS WILL REFLECT THESE PREFERENCES.

<table>
<thead>
<tr>
<th>SECTION</th>
<th>SHEET DESCRIPTION</th>
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</tr>
</thead>
<tbody>
<tr>
<td>BR</td>
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<td>1</td>
</tr>
<tr>
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</tr>
<tr>
<td>BR</td>
<td>ADDENDA AND REVISIONS</td>
<td>3</td>
</tr>
<tr>
<td>BR</td>
<td>LEGEND</td>
<td>4</td>
</tr>
<tr>
<td>BR</td>
<td>NOTES</td>
<td>5</td>
</tr>
<tr>
<td>BR</td>
<td>TYPICAL SECTIONS</td>
<td>6</td>
</tr>
<tr>
<td>BR</td>
<td>HORIZONTAL AND VERTICAL CONTROL</td>
<td>7</td>
</tr>
<tr>
<td>BR</td>
<td>CONSTRUCTION PLAN</td>
<td>8</td>
</tr>
<tr>
<td>BR</td>
<td>PROFILE</td>
<td>9</td>
</tr>
<tr>
<td>BR</td>
<td>BRIDGE PLAN, SECTION AND ELEVATION</td>
<td>10</td>
</tr>
<tr>
<td>BR</td>
<td>PRECAST BRIDGE DETAILS</td>
<td>11</td>
</tr>
<tr>
<td>BR</td>
<td>PRECAST CONCRETE DETAILS</td>
<td>12</td>
</tr>
<tr>
<td>BR</td>
<td>CLOSURE DETAIL</td>
<td>13</td>
</tr>
<tr>
<td>BR</td>
<td>SOIL BORING LOG</td>
<td>14</td>
</tr>
<tr>
<td>BR</td>
<td>ENVIRONMENTAL NOTES</td>
<td>15</td>
</tr>
<tr>
<td>BR</td>
<td>ENVIRONMENTAL COMPLIANCE PLAN</td>
<td>16</td>
</tr>
<tr>
<td>BR</td>
<td>CONSTRUCTION PHASING, M.O.T. AND EROSION CONTROL PLANS - PHASE 1</td>
<td>17</td>
</tr>
<tr>
<td>BR</td>
<td>DETOUR PASSING NOTES (PHASE 2)</td>
<td>18</td>
</tr>
<tr>
<td>BR</td>
<td>CONSTRUCTION PHASING, M.O.T. AND EROSION CONTROL PLANS - PHASE 2</td>
<td>19</td>
</tr>
<tr>
<td>TS</td>
<td>CONSTRUCTION PHASING, M.O.T. AND EROSION CONTROL PLAN - 20-2</td>
<td>20</td>
</tr>
<tr>
<td>BR</td>
<td>CONSTRUCTION PHASING, M.O.T. AND EROSION CONTROL PLANS - PHASE 3</td>
<td>21</td>
</tr>
<tr>
<td>BR</td>
<td>CONSTRUCTION PHASING, M.O.T. AND EROSION CONTROL PLANS - PHASE 4</td>
<td>22</td>
</tr>
<tr>
<td>TS</td>
<td>VEHICULAR DETOUR PLAN</td>
<td>23</td>
</tr>
<tr>
<td>TS</td>
<td>TRUCK DETOUR PLAN</td>
<td>24</td>
</tr>
<tr>
<td>BR</td>
<td>UTILITY RELOCATION PLAN</td>
<td>25</td>
</tr>
<tr>
<td>BR</td>
<td>SIGNING AND STRIPING PLAN</td>
<td>26</td>
</tr>
</tbody>
</table>
WHEN POSSIBLE, THE BRIDGES AND STRUCTURES SECTION PREFERS TO COMBINE THE 'INDEX OF SHEETS' AND 'ADDENDA AND REVISIONS' SHEETS. IN ADDITION, IT IS PREFERRED TO LEAVE THE 'SECTION' BOX BLANK, AND NOT INCLUDE BLANK ADDENDA AND REVISIONS BLOCKS. FUTURE EXAMPLE PLANS WILL REFLECT THESE PREFERENCES.
PROPOSED PRECAST FRAME END SECTION

EXISTING CAST-IN-PLACE FRAME END SECTION

TYPICAL SECTION A-A

REINFORCING BAR LIST

CONCRETE RIGID FRAME NOTES

1. WHEN FIELD DRILLING INTO EXISTING BR 3-507, DO NOT COME INTO CONTACT WITH EXISTING REINFORCEMENT. LOCATE ALL EXISTING REINFORCEMENT THROUGH USE OF MICROSEISMIC OR SIMILAR PROOF TO FIELD DRILLING.

2. REFER TO CONTRACT B5-020-POR FOR ADDITIONAL INFORMATION ON EXISTING GP 3-507.

3. ALL FIELD DRILLED HOLES FOR BR 3-507 HAVE A DRILLING TOLERANCE OF 2" TO AVOID CONTACT WITH EXISTING REINFORCEMENT.

4. CONCRETE FOR CLOSURE POURS SHALL BE CLASS A, TYPE 1, RDP GP 1 WITH A 22 ABANDONMENT OR MINIMUM ESTIMATE TREATED CONCRETE (DRAFT FOR UNDERTesla Protocol).

5. TO PREVENT EXPOSED CONCRETE BARES, OTHER THAN SCHEMATICS SHALL BE APPLIED TO THE FRONT FACE OF THE PRECAST FRAME SECTION.

SCALE: AS NOTED

BR 3-507 ON USI13 OVER IRON BRANCH

CLOSURE POUR DETAILS
ENVIROMENTAL COMPLIANCE NOTES

1. GENERAL:
   a. The purpose of this sheet is to identify those areas associated with environmental regulations which
      must be maintained and that which require specific permitting actions only and are not to be
      disregarded or ignored.
   b. If a situation arises where the required steps are not taken, adverse action affecting the
      environment in question shall be taken to ensure that the necessary permitting actions
      are completed by the specific timeframe provided for in the regulations.
   c. The use of this sheet does not guarantee the contractor’s compliance with all conditions set
      forth in the environmental regulations and permits.

2. NATURAL RESOURCE ISSUES:
   a. (TERRAIN/RECEPTIVE SURFACES)
      U.S. Army Corps of Engineers (COE) - T&A in PMN
      U.S. Fish and Wildlife Service (FWS) - Critical Environmental Features
      U.S. Environmental Protection Agency (EPA) - Water Quality, Critical Habitat
   b. (TAXONOMY/ENVIRONMENTAL SAFETY) (TSS) is a prerequisite for this project. The environmental
      section is responsible for coordinating and obtaining this approval.
   c. The contractor will ensure that the permits/approvals are in their possession prior
      to beginning construction in the permitted areas and ensure that they are displayed
      onsite during the entire construction period.
   d. CONSTRUCTION RESTRICTIONS:
      ...change to... March 1st to June 30th. No work to be performed between March 1st to June 30th
      NO TRASH ON SITE - NONE

3. CULTURAL RESOURCE ISSUES:
   a. As a result of the current project operational, the project is consistent with the
      implementation plan of the site.
   b. COMMUNITY INFORMED APPROVAL:
      Community involvement with the implementation plan of the site.
   c. PROGRAMMATIC AGREEMENT:
      Read and understand the impact of all cultural and archeological findings.

4. SPECIAL PERMIT AND ENTER SCHEDULES:
   a. The contractor shall follow the special permit and permit schedules and all rules in regards to the
      installation of special permits and permits of special permits as required for the protection of
      the environment in question.
   b. The contractor shall ensure the following:
      All special permit work shall be done in accordance with the special permit and permit
      introduced by the contractor to the special permit and permit schedules and all rules in
      regards to the installation of special permits and permits of special permits as required for
      the protection of the environment in question.
   c. The contractor shall ensure that the special permit and permit schedules and all rules in
      regards to the installation of special permits and permits of special permits as required for
      the protection of the environment in question.

5. OTHER ISSUES:
   a. The contractor shall follow the special permit and permit schedules and all rules in regards to the
      installation of special permits and permits of special permits as required for the protection of
      the environment in question.
   b. No work shall be performed on the listed project. Physical alterations shall not occur.
      No work shall be performed on the listed project. Physical alterations shall not occur.
   c. All work shall be performed in accordance with the special permit and permit schedules and all rules in
      regards to the installation of special permits and permits of special permits as required for
      the protection of the environment in question.

6. NOT TO SCALE

7. BR 3-507 ON US 133 OVER IRON BRANCH
   MEK/ENDING
ADD NOTES:
1. ADD A VMS SB US 113, SOUTH OF SR 20

   US 113
   CLOSED
   X MILES
   TRUCKS
   FOLLOW
   DETOUR

2. ADD A VMS ALONG SR 24
   (USE PCMS 1 FROM TRUCK DETOUR PLAN)

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**PAVEMENT MARKINGS LEGEND**

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<tr>
<td>🟢</td>
<td>6&quot; SOLID FOLLOW TEMPORARY TAPE PAVEMENT</td>
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<td></td>
<td>STRIPING (ITEM B1009)</td>
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<td>🟢</td>
<td>6&quot; BLACKOUT TAPE (ITEM B1008)</td>
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CONSTRUCTION SEQUENCE (PHASE 3 - FRAME CONSTRUCTION):

1. Install crush cushion array (item 30070 & 30090), Type 3 barricades (item 30030). Temporary construction barrier (item 30030 and M.O.T. devices). In accordance with the design plan and close the southbound lanes of I-371 out of town. Closure shall only last for a total of 10 days and shall be coordinated with the Delaware Department of Transportation, Traffic Management Center.

2. Excavate ditches, remove existing drain pipes, manholes, and concrete encased beams at locations shown, remove and stockpile existing R-2 and R-3 in channels, bottom and R-2 along slopes. Remove existing concrete pillars, supports, and any additional portions within area of proposed placement. Install proposed precast concrete pillars, pipe, manholes, manhole covers, gasket, etc. Remove existing R-2 and R-3 in areas of proposed fill. Install pipe in their respective locations to match existing stream elevations.

3. Place hot mix asphalt, striping and complete any necessary grading. Remove Phase 2 M.O.T. devices and reopen the roadway.

4. Stabilize all disturbed areas prior to proceeding to the next phase.
CONSTRUCTION SEQUENCE (PHASE 4 - MILL/OVERLAY)

1. Re-install M.O.T. devices for shoulder closures 17A-3A and lane closures 17A-3B as needed in accordance with the 2017 Delaware MUTCD.

2. Complete median grading, ditch grading, place riprap along ditch, and cleanout existing drainageways in accordance with the plans.

3. Remove downstream sump pit. Adjust any disturbed riprap and streambed material, and grade and stabilize all disturbed areas downstream. Remove temporary erosion and sediment control devices downstream after vegetation has stabilized. All disturbed areas are directed by the Engineer. With concurrence from the Stormwater Engineer, removal of erosion and sediment control devices may be performed under Delaware MUTCD Typical Application 3A or Typical Application 33 (Figure 8-33), as shown in the manual.

4. Remove upstream diversion and temporary diversion pipe. Stabilize all disturbed areas. Remove V.E.P. protection and temporary erosion and sediment control devices after final vegetation stabilization of all disturbed areas and with concurrence from Delaware Stormwater Engineer.

5. Mill from STA 4+20.00 to STA 4+22.00 then overlay remaining width of the road with 2" of Hotmix Type C. Strike the roadway as shown on the plans. Complete any remaining work and repair any roadway items that may have been disturbed during construction.

6. Remove all M.O.T. devices.

CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - PHASE 4

BR 3-567 ON US13
OVER IRON BRANCH
DETOUR NOTES:
1. TRAFFIC OFFICER SHALL DIRECT TRAFFIC AT RADISH-HICKORY HILL INTERSECTION EACH DAY 6A-9A AND 3P-7P. TIME TO BE ADJUSTED BY ENGINEER AS NECESSARY.
NOTES:
1. ALL EXISTING UTILITY LOCATIONS SHOWN ARE FROM INFORMATION PROVIDED BY OTHERS.
   ELEVATIONS AND DEPTHS SHOWN ARE TO BE CONFIRMED FOR ANY UTILITIES DETERMINED TO BE IN POTENTIAL CONFLICT WITH PROPOSED STRUCTURES AND ROAD WORK.
2. THE 6" D.D. PIPE UNDER 0+4 (35' DIA. RCP) AND THE 6" D.D. RCP UNDER 0+11 (35' DIA. RCP) ARE CALCULATED TO BE BELOW THE ELEVATION OF THE BOTTOM OF THE PIPE AND LOCATION OF THE 6" D.D. PIPE UNDER 0+11 (35' DIA. RCP) IS NOT PLANNED. THE CONTRACTOR SHALL CONTACT EDD AND CONSULT WITH THE 3-EDD ENGINEER PRIOR TO INITIATING CONSTRUCTION WORK IN THIS AREA. REFER TO THE UTILITY STATEMENT FOR FURTHER DETAILS.
3. THE 6" D.D. (35' DIA. RCP) LINE LOCATED IN THE MEDIAN MAY BE SUSPENDED DURING CONSTRUCTION. THE CONTRACTOR SHALL CONTACT EDD AND CONSULT WITH THE 3-EDD ENGINEER PRIOR TO SUSPENDING THE LINE. ANY DAMAGE TO THE ITALIAN LINES WILL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT THEIR EXPENSE TO THE SATISFACTION OF THE ENGINEER.

UTILITY TEST HOLE SCHEDULE

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<th>COVER R.</th>
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</tbody>
</table>

BR 3-507 ON US113
OVER IRON BRANCH

UTILITY RELOCATION PLAN

MEASURE FORMS

[Diagram of BR 3-507 on US113 over Iron Branch with utility relocation plan details]