Installation Drawings Sheet Index

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TAYLOR FARM
SECTION THREE, PHASE TWO

NOTES
GENERAL NOTES:
1. This bridge has been designed for general site conditions. The project engineer shall be responsible for the structural suitability to the existing site conditions and for the hydraulic evaluation --- including scour and confirmation of soil conditions.
2. Prior to construction, contractor must verify all superstructure drawn through the engineer.
3. Only CONTECH Bridge Solutions Inc. the CONSPAN approved prodecure in Maryland may be used to design the bridge and to submit the permits for the project.
4. The use of any other precast structure with the load assumptions used for the CONSPAN structure may lead to serious design errors. Use of any other precast structures with this design and superstructure exists any verification of this design and superstructure. CONTECH Bridge Solutions Inc. assumes no liability for design of any alternate or similar type structures.
5. Alternate structures may be considered provided that aspect and related design drawings and calculations are submitted to the engineer 2 weeks prior to the bid date for review and approval.
6. Proposed alternate to a CONSPAN Bridge System must submit at least two (2) independently verified full scale load tests that confirm the proposed design methodology of the three alternate structures.

DESIGN DATA
Design Loading:
Bridge Unit 15032-44 = Maryland Legal Loads
Headwall: Earth Pressure Only
Wedge: Earth Pressure Only
Design Fill Height: 6'-0" max. to 2'-0” max.
Top of crown to top of pavement
Design Method: Load factor per AASHTO Specifications
Net allowable soil bearing pressure: 5000 psi
Gross allowable soil bearing pressure: 5000 psi

*Foundation excavation and subgrade preparation shall be in accordance with the geotechnical report for this project prepared by Hilt-Cameas Engineering Associates, Inc. dated 03/05.

MATERIALS
Precast units shall be constructed and installed in accordance with CONSPAN Specifications. Concrete for foundations shall have a maximum compressive strength of 5000 psi. Reinforcing steel for foundations shall conform to ASTM A416 or ASTM Grade 60.

LOCATION PLAN
FOR SCALE

CONSPAN
BRIDGE SYSTEMS
CONTECH
BRIDGE SOLUTIONS INC.
SPECIFICATIONS FOR MANUFACTURE AND INSTALLATION OF CON/SPAN® BRIDGE SYSTEMS

1. DESCRIPTION

The steel-concrete composite and CON/SPAN® bridge in accordance with these specifications shall be used in the construction of a bridge or similar structure. The bridge or structure shall be designed and constructed in accordance with the provisions of the project specification and the requirements of the local authorities having jurisdiction.

2. TYPES

CON/SPAN® Bridge System shall be designed and constructed in accordance with the project specification and the requirements of the local authorities having jurisdiction. The bridge shall be designed and constructed in accordance with the provisions of the project specification and the requirements of the local authorities having jurisdiction.

3. MATERIALS

The materials used in the construction of the bridge or structure shall be of the quality and specification required by the project specification and the requirements of the local authorities having jurisdiction. The materials shall be selected, procured, and tested in accordance with the provisions of the project specification and the requirements of the local authorities having jurisdiction.

4. MATERIALS - STEEL REINFORCEMENT AND HARDWARE

The steel reinforcement and hardware shall be selected, procured, and tested in accordance with the provisions of the project specification and the requirements of the local authorities having jurisdiction. The steel reinforcement and hardware shall be selected, procured, and tested in accordance with the provisions of the project specification and the requirements of the local authorities having jurisdiction.

5. MANUFACTURE

5.1 Details - The aggregate, cement, and water shall be proportioned and mixed in a manner that will result in a concrete mixture that will be placed in the forms in accordance with the provisions of the project specification and the requirements of the local authorities having jurisdiction.

5.2 Cutting - The concrete shall be cut to the required shape and size in accordance with the provisions of the project specification and the requirements of the local authorities having jurisdiction.

5.3 Water-Curing - The concrete shall be cured in accordance with the provisions of the project specification and the requirements of the local authorities having jurisdiction.

5.4 Sizes - The concrete shall be made in the sizes specified in the project specification and the requirements of the local authorities having jurisdiction.

5.5 Bars - The bars shall be of the size and type specified in the project specification and the requirements of the local authorities having jurisdiction.

5.6 Patching - The concrete shall be patched in accordance with the provisions of the project specification and the requirements of the local authorities having jurisdiction.

6. DESIGN

6.1 Breakdown - The breakdown shall be as described in the project specification and the requirements of the local authorities having jurisdiction.

6.2 Reinforcement - The reinforcement shall be proportioned and mixed in a manner that will result in a concrete mixture that will be placed in the forms in accordance with the provisions of the project specification and the requirements of the local authorities having jurisdiction.

6.3 Cutting - The concrete shall be cut to the required shape and size in accordance with the provisions of the project specification and the requirements of the local authorities having jurisdiction.

6.4 Water-Curing - The concrete shall be cured in accordance with the provisions of the project specification and the requirements of the local authorities having jurisdiction.

6.5 Sizes - The concrete shall be made in the sizes specified in the project specification and the requirements of the local authorities having jurisdiction.

6.6 Bars - The bars shall be of the size and type specified in the project specification and the requirements of the local authorities having jurisdiction.

6.7 Patching - The concrete shall be patched in accordance with the provisions of the project specification and the requirements of the local authorities having jurisdiction.

7. PERFORMANCE SPECIFICATIONS

7.1 Bridge Unit

7.1.1 Internal Dimensions - The internal dimensions shall be as described in the project specification and the requirements of the local authorities having jurisdiction.

7.1.2 Height - The height shall be as described in the project specification and the requirements of the local authorities having jurisdiction.

7.1.3 Weight - The weight shall be as described in the project specification and the requirements of the local authorities having jurisdiction.

7.1.4 Speed - The speed shall be as described in the project specification and the requirements of the local authorities having jurisdiction.

7.2 Barge Unit

7.2.1 Length - The length shall be as described in the project specification and the requirements of the local authorities having jurisdiction.

7.2.2 Width - The width shall be as described in the project specification and the requirements of the local authorities having jurisdiction.

7.2.3 Depth - The depth shall be as described in the project specification and the requirements of the local authorities having jurisdiction.

7.2.4 Capacity - The capacity shall be as described in the project specification and the requirements of the local authorities having jurisdiction.

7.3 Foundation

7.3.1 Foundation Type - The foundation type shall be as described in the project specification and the requirements of the local authorities having jurisdiction.

7.3.2 Foundation Size - The foundation size shall be as described in the project specification and the requirements of the local authorities having jurisdiction.

7.3.3 Foundation Material - The foundation material shall be as described in the project specification and the requirements of the local authorities having jurisdiction.

7.3.4 Foundation Design - The foundation design shall be as described in the project specification and the requirements of the local authorities having jurisdiction.

8. TESTING AND INSTALLATION

8.1 Type of Test Equipment - The test equipment shall be as described in the project specification and the requirements of the local authorities having jurisdiction.

8.2 Test Plan - The test plan shall be as described in the project specification and the requirements of the local authorities having jurisdiction.

8.3 Test Procedure - The test procedure shall be as described in the project specification and the requirements of the local authorities having jurisdiction.

8.4 Test Report - The test report shall be as described in the project specification and the requirements of the local authorities having jurisdiction.

9. JOINTS

9.1 Jointing - The joints shall be as described in the project specification and the requirements of the local authorities having jurisdiction.

9.2 Jointing Method - The jointing method shall be as described in the project specification and the requirements of the local authorities having jurisdiction.

9.3 Jointing Materials - The jointing materials shall be as described in the project specification and the requirements of the local authorities having jurisdiction.

9.4 Jointing Design - The jointing design shall be as described in the project specification and the requirements of the local authorities having jurisdiction.

10. WORKMANSHIP AND FINISH

10.1 Workmanship - The workmanship shall be as described in the project specification and the requirements of the local authorities having jurisdiction.

10.2 Finish - The finish shall be as described in the project specification and the requirements of the local authorities having jurisdiction.

10.3 Maintenance - The maintenance shall be as described in the project specification and the requirements of the local authorities having jurisdiction.

11. REPAIRS

11.1 Repair Procedure - The repair procedure shall be as described in the project specification and the requirements of the local authorities having jurisdiction.

11.2 Repair Materials - The repair materials shall be as described in the project specification and the requirements of the local authorities having jurisdiction.

11.3 Repair Equipment - The repair equipment shall be as described in the project specification and the requirements of the local authorities having jurisdiction.

12. INSPECTION

12.1 Inspection Procedure - The inspection procedure shall be as described in the project specification and the requirements of the local authorities having jurisdiction.

12.2 Inspection Equipment - The inspection equipment shall be as described in the project specification and the requirements of the local authorities having jurisdiction.

12.3 Inspection Materials - The inspection materials shall be as described in the project specification and the requirements of the local authorities having jurisdiction.

12.4 Inspection Design - The inspection design shall be as described in the project specification and the requirements of the local authorities having jurisdiction.

13. REJECTION

13.1 Rejected Item - The rejected item shall be as described in the project specification and the requirements of the local authorities having jurisdiction.

13.2 Rejected Item Procedure - The rejected item procedure shall be as described in the project specification and the requirements of the local authorities having jurisdiction.

13.3 Rejected Item Materials - The rejected item materials shall be as described in the project specification and the requirements of the local authorities having jurisdiction.

13.4 Rejected Item Design - The rejected item design shall be as described in the project specification and the requirements of the local authorities having jurisdiction.

14. MARKING

14.1 Marking Procedure - The marking procedure shall be as described in the project specification and the requirements of the local authorities having jurisdiction.

14.2 Marking Equipment - The marking equipment shall be as described in the project specification and the requirements of the local authorities having jurisdiction.

14.3 Marking Materials - The marking materials shall be as described in the project specification and the requirements of the local authorities having jurisdiction.

14.4 Marking Design - The marking design shall be as described in the project specification and the requirements of the local authorities having jurisdiction.

Approved: [Signature]
[Date]
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