NOTES

GENERAL NOTES:
1. This bridge has been designed for general site conditions. The project engineer shall be responsible for the structure's suitability to the site conditions and for the hydraulic evaluation - including scour and confirmation of soil conditions.

2. Prior to construction, contractor must verify all excavations shown through the engineer.

3. Only CONTECH Bridge Solutions Inc. may provide the structure designed in accordance with these plans.

4. Use of another prestressed structure with the design assumptions used for the CONTECH structure may lead to serious design errors. Any change in design assumptions must be reviewed and approved in writing by CONTECH Bridge Solutions Inc.

5. Preliminary design drawings and specifications are subject to change due to design changes and/or changes in materials.

6. Final design drawings must be submitted to the engineer for review and approval.

DESIGN DATA

Design Loading:
- Dead Load: 50 kips (226.8 kg)
- Live Load: 10 kips (44.5 kg)
- Design Speed: 20 mph (32 km/h)

CONSTRUCTION:
- Precast Concrete:
- Concrete Strength: 4000 psi (27.6 MPa)
- Reinforcement: 1/2" diameter reinforcing bars

MATERIALS
- Concrete:
- Type: Ready-mixed concrete
- Strength: 4000 psi (27.6 MPa)

CONSTRUCTION:
- Formwork:
- Type: Precast concrete
- Material: Concrete

LOCATION PLAN

ADDITIONAL INFORMATION

CONTECH BRIDGE SOLUTIONS INC.
ANSEF University Research Park Drive
Suite 200
Chasstie, North Carolina 28262
704-646-6205
704-646-6205 Fax
601-236-2603

CONSTRUCTION:
- Date: 01/01/2022
- Inspected by: [Signature]
- Approving Authority: [Signature]

BENCHMARK ENGINEERING, INC.
950 Westpark Drive
Austin, Texas 78759
512-246-3000

CONSTRUCTION:
- Date: 01/01/2022
- Inspected by: [Signature]
- Approving Authority: [Signature]
Note:
1) Set (7)-27'W Longitudinal Bars in Wingwall and Bridge Footings to make continuous.
SPECIFICATIONS FOR MANUFACTURE AND INSTALLATION OF CON/SPAN® BRIDGE SYSTEMS

1. DESCRIPTION
The work shall consist of constructing a CON/SPAN® bridge in accordance with these specifications in facilities and in accordance with the plans, grades, design and specifications shown on the plans or as established by the designer. In situations where the same or similar specifications apply to the work, the most stringent requirements shall govern.

2. TYPES
Permanent, semi-permanent and temporary CON/SPAN® bridges manufactured in accordance with the specifications shall be designated as Type A, B, or C. Permanent CON/SPAN® bridge systems manufactured in accordance with the specifications shall be designed and fabricated in accordance with the requirements of the specification for structural engineering analysis.

3. MATERIALS - CONCRETE
The concrete shall be of an air entrained mix as required in accordance with the requirements of the specification for structural engineering analysis. Concrete mix designations shall conform to the requirements of the specification for structural engineering analysis.

4. MATERIALS - STEEL REINFORCEMENT AND HARDWARE
The reinforcing steel shall be of the type and quality designated in the detailed drawings and/or structural engineering analysis.

5. MANUFACTURE
5.1 Ultra High Performance Fiber Reinforced Concrete (UHPFRC) shall be used for the deck and荔枝 and subgrade of the bridge system. UHPFRC is a type of concrete that has a high strength and durability, and is used to improve the design and performance of bridge decks.

6. TEST AND INSTALLING
6.1 Type of Test Specimens - Concrete compressive strength shall be determined in accordance with the requirements of the specification for structural engineering analysis. At least two test specimens shall be cast and tested from each batch of concrete used in the construction of the bridge deck.

7. PERMISSIBLE VARIATIONS
7.1 Bridge Units

7.1.1 Uniformity of Depth - The longitudinal dimension shall not vary by more than 0.5% from the design dimension.

7.1.2 Uniformity of Length - The centerline to centerline dimension shall not vary by more than 0.5% from the design dimension.

7.1.3 Uniformity of Orientation - The orientation of a bridge deck shall not vary by more than 0.5% from the design orientation.

7.2 Bridges

7.2.1 Uniformity of Height - The height of the bridge deck shall not vary by more than 1% from the design height.

7.2.2 Uniformity of Length - The length of the bridge deck shall not vary by more than 1% from the design length.

7.2.3 Uniformity of Orientation - The orientation of the bridge deck shall not vary by more than 1% from the design orientation.

7.3 Roller Supports

7.3.1 Uniformity of Height - The height of a roller support shall not vary by more than 1% from the design height.

7.3.2 Uniformity of Length - The length of the roller support shall not vary by more than 1% from the design length.

7.3.3 Uniformity of Orientation - The orientation of the roller support shall not vary by more than 1% from the design orientation.

8. JOINTS
8.1 Type of Joint - The joint shall be constructed in accordance with the requirements of the specification for structural engineering analysis. The joint shall be designed to accommodate the differential movement of the adjacent bridge decks.

8.2 Workmanship - The joint shall be constructed in accordance with the requirements of the specification for structural engineering analysis. The joint shall be designed to accommodate the differential movement of the adjacent bridge decks.

9. WORKSHOP AND FINISH
9.1 General - The bridge deck shall be constructed in accordance with the requirements of the specification for structural engineering analysis. The deck shall be designed to accommodate the differential movement of the adjacent bridge decks.

9.2 Workmanship - The bridge deck shall be constructed in accordance with the requirements of the specification for structural engineering analysis. The deck shall be designed to accommodate the differential movement of the adjacent bridge decks.

10. REPAIRS
10.1 General - The bridge deck shall be repaired in accordance with the requirements of the specification for structural engineering analysis. The repair shall be designed to accommodate the differential movement of the adjacent bridge decks.

10.2 Workmanship - The bridge deck shall be repaired in accordance with the requirements of the specification for structural engineering analysis. The repair shall be designed to accommodate the differential movement of the adjacent bridge decks.

11. CONSTRUCTION
11.1 General - The bridge deck shall be constructed in accordance with the requirements of the specification for structural engineering analysis. The construction shall be designed to accommodate the differential movement of the adjacent bridge decks.

11.2 Workmanship - The bridge deck shall be constructed in accordance with the requirements of the specification for structural engineering analysis. The construction shall be designed to accommodate the differential movement of the adjacent bridge decks.

12. INSPECTION
12.1 General - The bridge deck shall be inspected in accordance with the requirements of the specification for structural engineering analysis. The inspection shall be designed to accommodate the differential movement of the adjacent bridge decks.

12.2 Workmanship - The bridge deck shall be inspected in accordance with the requirements of the specification for structural engineering analysis. The inspection shall be designed to accommodate the differential movement of the adjacent bridge decks.

13. REJECTION
13.1 General - The bridge deck shall be rejected in accordance with the requirements of the specification for structural engineering analysis. The rejection shall be designed to accommodate the differential movement of the adjacent bridge decks.

13.2 Workmanship - The bridge deck shall be rejected in accordance with the requirements of the specification for structural engineering analysis. The rejection shall be designed to accommodate the differential movement of the adjacent bridge decks.

14. MARKING
14.1 General - The bridge deck shall be marked with permanent watermark. The field shall be shown on the section of the bridge deck if the marks are visible.

14.2 Workmanship - The bridge deck shall be marked with permanent watermark. The field shall be shown on the section of the bridge deck if the marks are visible.

Name of manufacturer:

BENCHMARK ENGINEERING, INC.