# BEAM END REPAIR DETAILS

## UHPC Beam End Repair Table

<table>
<thead>
<tr>
<th>Beam End Location</th>
<th>Span</th>
<th>Girder</th>
<th>Deterioration %</th>
<th>Environment Level of Deterioration</th>
<th>Span 01</th>
<th>Span 02</th>
<th>Stem 14</th>
<th>Total</th>
<th>Length of UHPC Block</th>
<th>Height of UHPC Block</th>
<th>Height of Paint Above UHPC Block</th>
</tr>
</thead>
</table>

### Notes for Designers:

1. Designers shall determine if flange studs are necessary for the design of the beam end repair and use the noted specifications. See UHPC design guidelines for direction.

2. If no flange studs are necessary, proceed to the generation of the contract documents. See UHPC design guidelines for direction.

### BEAM END REPAIR NOTATIONS

1. The framing plans shown on drawing nos. S-XX through S-XX have been prepared based on information gathered during field inspections and from the existing framing plans shown on drawings S-XX through S-XX. The engineer shall review and verify the correctness of these plans and shall prepare modifications to the plans as required.

2. No point shall be applied under the UHPC block.

3. The UHPC beam end repair table indicates approximate limits of the deteriorated areas of the beam ends. Additional limits or locations may be added during construction as approved by the engineer.

4. Beam ends shall be repaired by encasing the beam end in Ultra High Performance Concrete (UHPC) as shown on drawings S-XX through S-XX and in accordance with the Special Provision "Beam End Repairs with Ultra High Performance Concrete - Partial Height." No paint shall be applied under the UHPC block.

5. The contractor shall provide access to beam end repair locations shown on the plans see special provisions.

### Details:

- **Plotting Date:**
- **Number of Web/Flange Studs Per Line:**
- **UHPC Block Length:**
- **UHPC Block Height:**
- **Painting Limits:**
- **Surface Preparation Limits:**
- **State of Connecticut Department of Transportation**
- **Office of Engineering**
- **Project No.:**
- **Scale as Noted**
- **Drawing Title:**
- **UHPC Beam End Repair Details - 1**
UHPC PANEL SIDE A

SIDE B

** Flange Studs Not Shown for Clarity

SHEAR CONNECTOR DETAIL TYPE 1B REPAIR

SCALE: 1\" = 1'

** Flange Studs Not Shown for Clarity

SHEAR CONNECTOR DETAIL TYPE 1B REPAIR

SCALE: 1\" = 1'

TYPICAL FLANGE STUD LAYOUT

DELETET DETAIL IF NO FLANGE STUDS NECESSARY

SCALE AS NOTED

STATE OF CONNECTICUT

DEPARTMENT OF TRANSPORTATION

OFFICE OF ENGINEERING

UHPC BEAM END REPAIR DETAILS - 2