**U.I.P. AND REHABILITATE EXISTING (X'-X'-X') SPANS**

**Estimated Quantities**

<table>
<thead>
<tr>
<th>Item</th>
<th>Total</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Surface Hydro Demolition</td>
<td>218-10.0 cu. yd.  218-10.0 sq. ft.</td>
<td>x</td>
</tr>
<tr>
<td>Removal of Concrete Wearing Surface</td>
<td>216-10.0 sq. ft.</td>
<td>x</td>
</tr>
<tr>
<td>Rehabilitation, Partially Penetrating</td>
<td>216-10.0 sq. ft.</td>
<td>x</td>
</tr>
<tr>
<td>Substructure Repair, Partially Penetrating</td>
<td>216-10.0 sq. ft.</td>
<td>x</td>
</tr>
<tr>
<td>Substructure Repair, Full Depth</td>
<td>216-10.0 sq. ft.</td>
<td>x</td>
</tr>
<tr>
<td>Substructure Repair, Formed</td>
<td>216-10.0 sq. ft.</td>
<td>x</td>
</tr>
<tr>
<td>Full Depth Repair</td>
<td>216-10.0 sq. ft.</td>
<td>x</td>
</tr>
<tr>
<td>Full Edge Repair</td>
<td>216-10.0 sq. ft.</td>
<td>x</td>
</tr>
<tr>
<td>Cleaning and Epoxy Coating</td>
<td>216-10.0 sq. ft.</td>
<td>x</td>
</tr>
<tr>
<td>Traffic Handling</td>
<td>216-10.0 sq. ft.</td>
<td>x</td>
</tr>
</tbody>
</table>

**General Notes:**

- B3.8 Supplementary wearing surface material will be paid for at the fixed unit price in accordance with Sec 109.

**Note:** BS 8757 required.

**Design Specifications:**

- AASHTO LS (LRFD, Sec.) Standard Specifications

**Design Loadings:**

- A1.1 Design Specifications:
  - Year
  - PPP Modified ( ) and Military 36,000 lb Tractor ( )

**Design Unit Stresses:**

- Class ( ) Concrete: Multi-Sole and Full Depth Repair: f'c = 4,000 psi

**Miscellaneous:**

- I1.0 Roadway surfacing adjacent to bridge end shall match new bridge wearing surface.

**Outline of old work is indicated by light dashed lines. Heavy lines indicate new work.**

**Traffic Handling:**

- 45.8 Easing toe grades, where possible. Traffic to be maintained on existing roadway.

**REPAIRS TO BRIDGE: ROUTE * OVER *  ABS # FROM # TO #**

- Project No. 01  Route: 505-20.00
- Contractor: 704-01.13
- Sheet No. 1 of 1

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**Note:** This drawing is not to scale. Follow dimensions.
This is an index of Standard Drawing details. Draw typical section as required and scale to fit within attached border. Use appropriate deck repair details and modify as required (match orientation of actual reinforcement).

For bridges with epoxy coated steel, see Sec 710 for repairing bars and add notes as necessary. See SPM.

Wearing surface thickness can vary according to grade elevation requirements and minimum barrier curb height requirements. Minimum thickness should be limited to 3" (Ref. Organizational Results Research Report ORO6.004, May 2006). Limit excludes reinforced concrete slab wearing surfaces.

Will need to adjust wearing surface thickness when detailing a thin wearing surface (1" or less). But it is a preferred detailing practice to show discernable thickness on the plans. No thickness is shown for crack filler application.

1. Use appropriate reference (Structure, Roadway, Median, etc.)
2. Use appropriate reference (Structure, Roadway, Median, etc.)
3. Use appropriate reference (Structure, Roadway, Median, etc.)
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5. Use appropriate reference (Structure, Roadway, Median, etc.)
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7. Use appropriate reference (Structure, Roadway, Median, etc.)
8. Use appropriate reference (Structure, Roadway, Median, etc.)
9. Use appropriate reference (Structure, Roadway, Median, etc.)
10. Use appropriate reference (Structure, Roadway, Median, etc.)
Monolithic Deck Repair

STANDARD DRAWING GUIDANCE (do not show on plans):

Hydro Demolition Case 1:
3" to 4" Steel Fiber Reinforced
1 3/4" to 3" CSA Cement Very Early Strength
1 3/4" to 3" Latex Modified Very Early Strength
2 1/4" to 3" Silica Fume
1 3/4" to 3" Latex Modified

May be used with the following concrete wearing surfaces:
Coating (Overhang)
Cleaning and Epoxy

Steel

(REQUIRING INCIDENTAL FORMING)

MILLING AND HYDRO DEMOLITION LIMITS

Top of Existing Wearing Surface

Top of New Wearing Surface

DETAILED DECK REPAIR

Monolithic Deck Repair

(REMOVAL OF EXISTING DECK)

Monolithic Deck Repair

(REPLACING EXISTING WEARING SURFACE)

Monolithic Deck Repair

(REPLACING EXISTING WEARING SURFACE)

TYPICAL SECTION THRU EXISTING DECK

Monolithic Deck Repair

(REPLACING EXISTING WEARING SURFACE)

Monolithic Deck Repair

(REPLACING EXISTING WEARING SURFACE)

TYPICAL SECTION THRU EXISTING DECK

Monolithic Deck Repair

(REPLACING EXISTING WEARING SURFACE)

Monolithic Deck Repair

(REPLACING EXISTING WEARING SURFACE)
Hydro Demolition Case 2: Conventional Deck Repair

After Hydro Demolition

STANDARD DRAWING GUIDANCE (do not show on plans)

- May be used with the following concrete wearing surfaces:
  - 2 1/4" to 3" Low Slump
  - 3/4" to 3" Polyester Polymer

If optional concrete wearing surface is specified and either low slump or polyester polymer is an option:

Use appropriate details below on second sheet and add a sheet title using the allowed options for the above details. E.g. "LOW SLUMP CONCRETE DETAILS"

(Adding First Wearing Surface)

(Replacing Existing Wearing Surface)
Conventional Deck Repair Only

STANDARD DRAWING GUIDANCE (do not show on plans):

Scarification not required with the following wearing surfaces:
- Seal Coat
- Asphalt
- Epoxy Polymer
- MMA Polymer Slurry

Or when applying concrete crack filler:

- Scarification not required with the following wearing surfaces:
  - Seal Coat
  - Asphalt
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  - MMA Polymer Slurry

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