Select the appropriate 1st and 2nd sheet. Draw typical sections as required and scale to fit within attached border replacing the provided example. Modify other details and notes as required (match orientation of actual reinforcement).

For solid slabs, all details shall be modified by removing voids and all notes pertaining to void repair.

District/SPM typically estimates the percentage of void tube replacement.

Transverse repair zoning over intermediate bents is required for these structures: Longitudinal repair zoning in spans is required only when hydro demolition is required and is based on anticipated quantity of deck repair. Transverse zoning only applies to backer rod or sealant. Deck repair zoning may not be applied to backer rod or sealant. See ENG.751-40. If only transverse zoning is required, Zones shall be called "Special Repair Zones".

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

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

If only transverse zoning is required, Zones shall be called "Special Repair Zones".

A preferred detailing practice is to show a discernable thickness on the plans. No thickness is shown for crack filler application.

- Show difference as ±X" (see Bridge Memo or SPM, e.g. Match existing grade plus 2 1/4" thicker outside special repair zones for hydro Case 1 & 2).
- Identify existing wearing surface and thickness, see Bridge Memo or existing plans.
- Identify new wearing surface, see Bridge Memo or SPM. Specify minimum thickness in deck details, typically 1/4" thicker outside special repair zones for hydro Case 1 & 2.
- Identify existing wearing surface and thickness, see Bridge Memo or existing plans.
- See Bridge Memo or SPM, typically 1/2". Use 1" if more than 30% of existing deck needs repair. Verify there will be a minimum of 1/4" inside special repair zones to avoid deeper penetration into newly repaired areas and 1/2" outside special repair zones.
- See existing plans.
- Use appropriate reference (Structure, Roadway, Median, etc.).
- See Bridge Memo or SPM. Typically 1/2" Use 1" if more than 30% of existing deck needs repair. Verify there will be a minimum of 1/4" inside special repair zones to avoid deeper penetration into newly repaired areas and 1/2" outside special repair zones.
- Use existing plans.
- Use appropriate reference (Structure, Roadway, Median, etc.).
- See Bridge Memo or SPM. Typically 1/2" Use 1" if more than 30% of existing deck needs repair. Verify there will be a minimum of 1/4" inside special repair zones to avoid deeper penetration into newly repaired areas and 1/2" outside special repair zones.
- Use existing plans.
- Use appropriate reference (Structure, Roadway, Median, etc.).
- See Bridge Memo or SPM. Typically 1/2" Use 1" if more than 30% of existing deck needs repair. Verify there will be a minimum of 1/4" inside special repair zones to avoid deeper penetration into newly repaired areas and 1/2" outside special repair zones.
- Use existing plans.
- Use appropriate reference (Structure, Roadway, Median, etc.).
- See Bridge Memo or SPM. Typically 1/2" Use 1" if more than 30% of existing deck needs repair. Verify there will be a minimum of 1/4" inside special repair zones to avoid deeper penetration into newly repaired areas and 1/2" outside special repair zones.
- Use existing plans.
- Use appropriate reference (Structure, Roadway, Median, etc.).
- See Bridge Memo or SPM. Typically 1/2" Use 1" if more than 30% of existing deck needs repair. Verify there will be a minimum of 1/4" inside special repair zones to avoid deeper penetration into newly repaired areas and 1/2" outside special repair zones.
- Use existing plans.
- Use appropriate reference (Structure, Roadway, Median, etc.).
- See Bridge Memo or SPM. Typically 1/2" Use 1" if more than 30% of existing deck needs repair. Verify there will be a minimum of 1/4" inside special repair zones to avoid deeper penetration into newly repaired areas and 1/2" outside special repair zones.
- Use existing plans.
- Use appropriate reference (Structure, Roadway, Median, etc.).
- See Bridge Memo or SPM. Typically 1/2" Use 1" if more than 30% of existing deck needs repair. Verify there will be a minimum of 1/4" inside special repair zones to avoid deeper penetration into newly repaired areas and 1/2" outside special repair zones.
- Use existing plans.
- Use appropriate reference (Structure, Roadway, Median, etc.).
- See Bridge Memo or SPM. Typically 1/2" Use 1" if more than 30% of existing deck needs repair. Verify there will be a minimum of 1/4" inside special repair zones to avoid deeper penetration into newly repaired areas and 1/2" outside special repair zones.
- Use existing plans.
- Use appropriate reference (Structure, Roadway, Median, etc.).
- See Bridge Memo or SPM. Typically 1/2" Use 1" if more than 30% of existing deck needs repair. Verify there will be a minimum of 1/4" inside special repair zones to avoid deeper penetration into newly repaired areas and 1/2" outside special repair zones.
- Use existing plans.
- Use appropriate reference (Structure, Roadway, Median, etc.).
- See Bridge Memo or SPM. Typically 1/2" Use 1" if more than 30% of existing deck needs repair. Verify there will be a minimum of 1/4" inside special repair zones to avoid deeper penetration into newly repaired areas and 1/2" outside special repair zones.
- Use existing plans.
- Use appropriate reference (Structure, Roadway, Median, etc.).
- See Bridge Memo or SPM. Typically 1/2" Use 1" if more than 30% of existing deck needs repair. Verify there will be a minimum of 1/4" inside special repair zones to avoid deeper penetration into newly repaired areas and 1/2" outside special repair zones.
- Use existing plans.
- Use appropriate reference (Structure, Roadway, Median, etc.).
- See Bridge Memo or SPM. Typically 1/2" Use 1" if more than 30% of existing deck needs repair. Verify there will be a minimum of 1/4" inside special repair zones to avoid deeper penetration into newly repaired areas and 1/2" outside special repair zones.
- Use existing plans.
- Use appropriate reference (Structure, Roadway, Median, etc.).
- See Bridge Memo or SPM. Typically 1/2" Use 1" if more than 30% of existing deck needs repair. Verify there will be a minimum of 1/4" inside special repair zones to avoid deeper penetration into newly repaired areas and 1/2" outside special repair zones.
- Use existing plans.
- Use appropriate reference (Structure, Roadway, Median, etc.).
- See Bridge Memo or SPM. Typically 1/2" Use 1" if more than 30% of existing deck needs repair. Verify there will be a minimum of 1/4" inside special repair zones to avoid deeper penetration into newly repaired areas and 1/2" outside special repair zones.
- Use existing plans.
- Use appropriate reference (Structure, Roadway, Median, etc.).
- See Bridge Memo or SPM. Typically 1/2" Use 1" if more than 30% of existing deck needs repair. Verify there will be a minimum of 1/4" inside special repair zones to avoid deeper penetration into newly repaired areas and 1/2" outside special repair zones.
- Use existing plans.
- Use appropriate reference (Structure, Roadway, Median, etc.).
- See Bridge Memo or SPM. Typically 1/2" Use 1" if more than 30% of existing deck needs repair. Verify there will be a minimum of 1/4" inside special repair zones to avoid deeper penetration into newly repaired areas and 1/2" outside special repair zones.
- Use existing plans.

For aesthetic purposes, replace all unused Drawing Models & Sheet Models before requesting PDFs for sign and seal.
RODDA  Effective: Feb. 2024  Supersedes: May 2021

U.I.P. AND REHABILITATE EXISTING [X'-X'-X'] CONTINUOUS CONCRETE VOIDED SLAB SPANS (SKW: X)

Hydro Demolition Case 1A:
Zoned Conventional Deck Repair Before Hydro Demolition and Non-Zoned Monolithic Deck Repair After Hydro Demolition
(Adding First Wearing Surface)

STANDARD DRAWING GUIDANCE (do not show on plans):
Use for the following concrete wearing surfaces:
- 3/4" to 3" Extra Hardened
- 3/4" to 3" Very Early Strength
- 3/4" to 3" Steel Fiber Reinforced

If optional concrete wearing surface is specified and low slump or polyester polymer is an option:
1. Add the allowed options in parentheses to the typical section title below and title the curve of the bridge.
2. Add to this sheet the typical section from Sheet RHB04e with "(Low Slump Concrete)" added to the title.
3. Add a "(Low Slump Concrete)" to the RHB04f sheet title and revise the sheet

Estimated Quantities:

- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
- Deck Repair with Void Tube Replacement
**Hydro Demolition Case 1B:**

Zoned Conventional Deck Repair Before Hydro Demolition and Non-Zoned Monolithic Deck Repair After Hydro Demolition

(Replacing Existing Wearing Surface)

---

**General Notes:**

- **Design Specifications:** 2007 AASHTO LRFD (8th Ed.) Standard Specifications for Highway Bridges
- **Deck Rating:**
  - INDIA SPECIFICATIONS
  - **Recommended:** 4,000 lb Tandem Axle or 14,000 lb Tractor-Trailer
- **Design Load:**
  - Bridge Deck Rating = INDIA SPECIFICATIONS
  - **Recommended:** 4,000 lb Tandem Axle or 14,000 lb Tractor-Trailer
- **2. Design Unit Stresses:**
  - Class A3.8 Concrete (Half-Sole and Full Depth Repair) f'c = 4,000 psi
  - **Note:**
  - A3.8 Supplementary wearing surface material for monolithic deck repair will be paid for at the fixed unit price in accordance with Sec 109.

- **Design Specifications:** 2007 AASHTO LRFD (8th Ed.) Standard Specifications for Highway Bridges
- **Deck Rating:**
  - INDIA SPECIFICATIONS
  - **Recommended:** 4,000 lb Tandem Axle or 14,000 lb Tractor-Trailer
- **Design Load:**
  - Bridge Deck Rating = INDIA SPECIFICATIONS
  - **Recommended:** 4,000 lb Tandem Axle or 14,000 lb Tractor-Trailer
- **2. Design Unit Stresses:**
  - Class A3.8 Concrete (Half-Sole and Full Depth Repair) f'c = 4,000 psi
  - **Note:**
  - A3.8 Supplementary wearing surface material for monolithic deck repair will be paid for at the fixed unit price in accordance with Sec 109.

---

**Estimate Quantities:**

- **Total Surface Hydro Demolition:**
  - 3/7/2024 to 17
- **Estimated Quantities:**
  - 3/7/2024 to 17
- **Sheet No. 1 of:**
  - 3/7/2024 to 17

**Contractor:**

- **Contractor:**
  - MO 105 WEST CAPITOL
  - JEFFERSON CITY, MO 65102
  - 1-888-ASK-MODOT (1-888-275-6636)
Hydro Demolition Case 2A:

Zoned Conventional Deck Repair Before Hydro Demolition and Non-Zoned Conventional Deck Repair After Hydro Demolition

(Adding First Wearing Surface)
Hydro Demolition Case 2B:
Zoned Conventional Deck Repair Before Hydro Demolition and Non-Zoned Conventional Deck Repair After Hydro Demolition

(Reparing Existing Wearing Surface)

STANDARD DRAWING GUIDANCE (do not show on plans):

- May be used with the following concrete wearing surfaces:
  - 3/4" to 3" Polyester Polymer
  - Latex Modified Concrete Wearing Surface
  - Supplementary Wearing Surface Material
  - Roadway surfacing adjacent to bridge ends shall match new bridge wearing surface (roadway item).

If optional concrete wearing surface is specified and low slump or polyester polymer is an option, follow guidance on Sheet RHB04c.

Estimated Quantities

<table>
<thead>
<tr>
<th>Description</th>
<th>Unit</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Surface Hydro Demolition</td>
<td>sq. ft</td>
<td>255,120</td>
</tr>
<tr>
<td>Removal of Existing Deck Repair</td>
<td>sq. ft</td>
<td>255,120</td>
</tr>
<tr>
<td>Deck Repair with Void Tube Replacement</td>
<td>sq. ft</td>
<td>255,120</td>
</tr>
<tr>
<td>Match exist. Barrier (tem.)</td>
<td>cu. yd</td>
<td>0.000</td>
</tr>
</tbody>
</table>

General Notes:

- Design Specifications
- Design Loading
- Design Unit Stresses
- Miscellaneous

Contractor shall verify all dimensions in field before finalizing the shop drawings.

Note: This drawing is not to scale. Follow dimensions.
DECK REPAIR DETAILS

Order of Repair:
1. Remove existing wearing surface plus ___" of existing deck.
2. Power wash deck to identify sound and unsound areas.
3. Inside special repair zones, complete the following repairs:
   a. Half-sole repair
   b. Void tube replacement
   c. Deck repair with void tube replacement
   d. Full depth repair
4. Outside special repair zones, remove existing deck.
5. Complete total surface hydro demolition, removing minimum of sound concrete inside special repair zones and all deteriorated concrete outside special repair zones.
6. Sound deck and patch if needed complete incidental concrete removal.
7. Outside special repair zones, complete the following repairs:
   a. Half-sole repair
   b. Void tube replacement
8. Place new wearing surface (including additional material for areas of monolithic deck repair).

Special Repair Zones:
- Any deck repair area designated as special repair zones shall be completed after hydro demolition. A hydro demolition sequence beginning with Zone A, Zones B through E shall not move forward until the repairs to all special repair zones are completed and properly cured.
- Any single repair area does not exceed 4 square feet and the total repair area within a special repair zone does not exceed ___", the same time. Hydro demolition shall not move forward until the repairs to all special repair zones are completed and properly cured.
- Void Repair:
  - Any damage sustained to the void tube as a result of the contractor's operations shall be patched or replaced as directed by the engineer.

Deck Repair Notes:
- The point of patching as determined by the engineer, any exposed void in the deck shall be patched as approved by the engineer. Any damaged, sound deck shall be patched to maintain the void area completely free of concrete. Void Repair:
  - Any damage sustained to the void tube as a result of the contractor's operations shall be patched or replaced as directed by the engineer.

Part Plan of Slab Showing Special Repair Zones

Deck Repair Inside Special Repair Zones (Before Hydro Demolition)

Deck Repair Outside Special Repair Zones (After Hydro Demolition)

Deck Repair With Void Tube Replacement

Monolithic and Half-Sole Repair

Deck Repair Notes:
- Full Depth Repair

Superstructure Repair (Unformed)

Details:
- Detail A
- Detail B
- Detail C

Note: This drawing is not to scale. Follow dimensions.
Conventional Deck Repair Only  
(Case A)  

(Adding First Wearing Surface or Applying Concrete Crack Filler)

General Notes:

A1.1 Design Specifications:  
3002 AGC/TO LTD (12th Ed.) Standard Specifications
Bridge Deck Repair =  

A1.2 Design Loading:  
HS20-44 Modified / 1 Axle-Wheel Axle Load = 24,000 lb Tandem Axle (    )  

A1.3 Design Unit Stresses:  
Class [ ] Concrete (Half-Sole and Full Depth Repair)  

- Half-Sole Repair  
- Full Depth Repair  

A1.6 Miscellaneous:

11.1.1 Roadway surfacing adjacent to bridge ends shall match new bridge wearing surface (half sole).  

11.1.3 All concrete repairs shall be in accordance with Sec 704, unless otherwise noted.  

11.1.4 Outline of existing work is indicated by light dashed lines. Heavy lines indicate new work.  

11.1.5 Contractor shall verify all dimensions in field before finalizing the shop drawings.  

11.1.6 In order to maintain grade and prevent excessive thickness of wearing surface or other repairs that may be necessary to use additional quantities of wearing surface at various locations throughout the structure, the cost of surfacing and installing the wearing surface will be considered completely covered in the contract unit prices. Any additional labor, materials or equipment for variations in thickness of wearing surface.  

11.1.7 Traffic Handling:  

A11.8-3 Repair access is to be made available to traffic control contractor.  

A35.4 Repairs to Bridge:  

ROUTE *  

FROM * TO *  

ABOUT * MILES * OF *  

BEGINNING STATION _________± (Match Existing)  

ccional Deck Repair Only  
(Case A)  

(Adding First Wearing Surface or Applying Concrete Crack Filler)
**Special Repair Zones**

- **Int. Bent No. 3**
- **Sheet No.** of 89
- **RHB04j**
- **Effective:** Mar. 2021
- **Supersedes:** Aug. 2020

*PART PLAN OF SLAB SHOWING SPECIAL REPAIR ZONES*

**Deck Repair Notes:**

- **Cover of Repairs:**
  1. Scarify existing deck
  2. Sound deck to identify areas in need of repair.

- **Outside special repair zones, complete the following repairs:**
  3. **Half-sole repair**
  4. **Deck repair with void tube replacement**

- **Inside special repair zones, complete the following repairs:**
  5. **Full depth repair**
  6. **Half-sole repair**

- **Half-sole repair with void tube replacement**

**Deck Repair Details**

- **Curb:**
- **Roadway Face:**

**Deck Repair Guidelines:**

- **For application of concrete crack filler:**
- **Note:**
  - Adjust header note to point to the remaining top line

**Superstructure Repair (Unformed):**

- **Detail A:**

**Fiber Void Tube Replacement:**

- **Fiber tubes for producing voids shall have an approximate outside diameter:**
- **Clearance around top bar:**
- **Interior bent No. 2:**

---

**Note:**
This drawing is not to scale. Follow dimensions. Sheet No. of 1.
Conventional Deck Repair Only (Case B)

(Replacing Existing Wearing Surface)

General Notes:

A.1. Design Specifications
3602 AASHTO Std. (12th Ed.) Standard Specifications
Bridge Deck Repair

A.1.2. Design Loading
HS20-44 Modified, 24,000 lb Tandem Axle

A.1.3. Design Mix Stress(es): Class [B] Concrete (Half-Sole and Full Depth Repair) and Deck Repair with Void Tube Replacement

B. Mixtures:

B.0.2.1. Required

B.0.2.2. All concrete repairs shall be in accordance with Sec. 704, unless otherwise noted.

C. Outline of existing work is indicated by light dashed lines. Heavy lines indicate new work.

D. Contractor shall verify all dimensions in field before finalizing the shop drawings.

E. In order to maintain grade and a minimum thickness of wearing surface as shown on plans, it may be necessary to use additional quantities of wearing surface at various locations throughout the structure. The cost of surfacing and installing the wearing surface will be considered completely covered in the contract unit price for all additional labor, materials or equipment for variations in thickness of wearing surface.

F. Traffic Handling:

A.9. Structure to be closed during construction. Traffic to be maintained on temporary pavement surface.

REPAIRS TO BRIDGE: ROUTE * OVER *

ROUTE FROM * TO *

ABOUT * HILLS OR *

BEGINNING STATION ________± (Match Existing)
Deck Repair Notes:

**Order of Repair:**
1. Remove existing wearing surface.  
2. Sound deck to identify areas in need of repair.  
3. Remove any existing deck repairs and complete the following repairs in the order noted:  
   a. Half-sole repair  
   b. Deck repair with void tube replacement  
4. Inside special repair zones, complete the following repairs:  
   a. Half-sole repair  
   b. Deck repair with void tube replacement  
5. Place new wearing surface.

**Special Repair Zones**

1. Any deck repair in areas not designated as a special repair zone shall be completed prior to work in Zone A.
2. Deck repair in the areas designated as special repair zones shall be completed in the alphabetical sequence beginning with Zone A. Zones with the same letter designation may be repaired at the same time.
3. Special repair zones and concrete shall have attained a compressive strength of 3200 psi before work can be started in the next special repair zone.
4. If any single repair area does not exceed 4 square feet in size and the total repair area within a special repair zone does not exceed 10 square feet, the special repair zone may be repaired at the same line as all adjacent lines.

**Void Repair**

1. Any damage sustained to the void tube as a result of the contractor's operations shall be replaced or repaired at the contractor's expense.
2. An exposed void in the deck shall be patched as approved by the engineer, in a manner that shall maintain the void area completely free of concrete. Cutting of the longitudinal reinforcing steel will not be permitted. The fiber tubes for producing voids shall have an approximate cross-sectional diameter of 3/4 inch and shall be anchored to existing carrying the floor form at not more than 4 feet centers.
3. When a deteriorated portion of the void tube is beyond the point of patching as determined by the engineer, the portion of the deteriorated void tube shall be replaced. The void tube shall be replaced as required by the engineer at the contractor's expense.
4. An exposed void in the deck shall be patched as approved by the engineer and the portion of the deteriorated void tube shall be replaced. The void area shall be maintained completely free of concrete. The void area shall be maintained completely free of concrete. An exposed void in the deck shall be patched as approved by the engineer.
5. Any deck repair in areas not designated as a special repair zone and complete the following repairs:
   a. Half-sole repair
   b. Deck repair with void tube replacement

**Sound Deck**

1. Sound deck to identify areas in need of repair.
2. Remove existing wearing surface.
3. Adjust depth for thin wearing surfaces.

**Repair Details**

- Adjust level for thin wearing surfaces.
- Adjust depth for thin wearing surfaces.

**Note:** This drawing is not to scale. Follow dimensions.