Select the appropriate 1st and 2nd sheet. Draw typical section as required and scale to fit within attached border replacing the provided example. Modify other details as required. Note: The section shown is for illustrative purposes only.

**SECTION A-A**

Existing Gap

CLEAN AND SEAL JOINT AT END BENTS

Right side shown, left side similar.

Wear surface thickness can vary depending on area elevation requirements and minimum barrier curb height requirements. Only projects on Sheet RHB03j and RHB03L for conventional deck repair details can be used on Sheets RHB03 and RHB03_Mono_Box_Girder.dgn

**SECTION B-B**

PART PLAN OF SLAB SHOWING SPECIAL REPAIR ZONES

- **A** Show difference (ex: +2") use Bridge Memo or SPM. Typically 1/4" inside special repair zones to avoid deeper penetration into newly repaired areas and 1/2" outside special repair zones.
- **B** 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.
- **C** Identify existing wearing surface and thickness, see Bridge Memo or existing plans.
- **D** See Bridge Memo or SPM. Typically 1/4" inside special repair zones to avoid deeper penetration into newly repaired areas.
- **E** See existing plans.
- **F** See existing plans.
- **G** Use appropriate reference (Structure, Roadway, Median, etc.)
- **H** Two types of overhang rehabilitation are shown. Cleaning and epoxy coating is preferred because of the relative short life of anode repair to self-healingitious. However, in urban regions requiring long-term protection the coating may be preferred. Consult with SPM or SLE.
- **I** Scarification prior to adding new wearing surface or removing a portion of the deck when removing an existing wearing surface is not required for the seal coat, especially UBAW, epoxy polymer or MMA polymer slurry wearing surfaces.
- **J** Special repair should only be allowed where longitudinal zoning is not required.
- **K** May be used for aesthetic when there will be an extensive patchwork of repairs visible to the public.
- **L** If deterioration is within 4 inches of edge then slab edge repair may be used instead of unformed superstructure repair.

**PART PLAN OF SLAB SHOWING SPECIAL REPAIR ZONES**

- **A** Show difference (ex: +2") use Bridge Memo or SPM. Typically 1/4" inside special repair zones to avoid deeper penetration into newly repaired areas and 1/2" outside special repair zones.
- **B** 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.
- **C** Identify existing wearing surface and thickness, see Bridge Memo or existing plans.
- **D** See Bridge Memo or SPM. Typically 1/4" inside special repair zones to avoid deeper penetration into newly repaired areas.
- **E** See existing plans.
- **F** See existing plans.
- **G** Use appropriate reference (Structure, Roadway, Median, etc.)
- **H** Two types of overhang rehabilitation are shown. Cleaning and epoxy coating is preferred because of the relative short life of anode repair to self-healingitious. However, in urban regions requiring long-term protection the coating may be preferred. Consult with SPM or SLE.
- **I** Scarification prior to adding new wearing surface or removing a portion of the deck when removing an existing wearing surface is not required for the seal coat, especially UBAW, epoxy polymer or MMA polymer slurry wearing surfaces.
- **J** Special repair should only be allowed where longitudinal zoning is not required.
- **K** May be used for aesthetic when there will be an extensive patchwork of repairs visible to the public.
- **L** If deterioration is within 4 inches of edge then slab edge repair may be used instead of unformed superstructure repair.
Hydro Demolition Case 1A:
Zoned Conventional Deck Repair Before Hydro Demolition and Non-Zoned Monolithic Deck Repair After Hydro Demolition

(Adding First Wearing Surface)
DECK REPAIR NOTES:

1. Scour existing deck.
2. Repair patch deck, identify sound and unsound concrete.
3. Inside special repair zones:
   a. Complete full depth repair within special repair zones.
   b. Half-sole repair shall be completed at the same time.
   c. Full depth repair shall extend only to the limit of the special repair zone.
4. Outside special repair zones:
   a. Complete full depth repair within special repair zones.
   b. Half-sole repair shall be completed at the same time.
   c. Full depth repair shall extend only to the limit of the special repair zone.

DECK REPAIR DETAILS:

Note: This drawing is not to scale. Double dimensions. Sheet No. of
Hydro Demolition Case 1B:
Zoned Conventional Deck Repair Before Hydro Demolition and Non-Zoned Monolithic Deck Repair After Hydro Demolition

(Replacing Existing Wearing Surface)

STANDARD DRAWING GUIDANCE (do not show on plans):

Use for the following concrete wearing surfaces:

- 3/4" to 3" Latex Modified Very Early Strength
- 1 3/4" to 3" Latex Modified
- 1 3/4" to 3" Silica Fume
- 1 3/4" to 3" CSA Cement Very Early Strength

RHB03c Effective: Aug. 2020 Supersedes: Apr. 2020

Use for the following concrete wearing surfaces:

- 3" to 4" Steel Fiber Reinforced

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

- Addition of (Low Slump Concrete)

Use for the following concrete wearing surfaces:

- 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

Interior Special Repair Zones
PRE-HYDRO DEMOLITION REPAIRS

- Use of Cleaning and Epoxy Coating

OUTSIDE SPECIAL REPAIR ZONES
POST-HYDRO DEMOLITION REPAIRS

- Use of Cleaning and Epoxy Coating

Estimated Quantities

<table>
<thead>
<tr>
<th>Item</th>
<th>Total</th>
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<tbody>
<tr>
<td>Concrete Wearing Surface</td>
<td>216-10-04 sq. yard</td>
</tr>
<tr>
<td>Demolition Repair Surface</td>
<td>216-10-02 sq. yard</td>
</tr>
<tr>
<td>Supplementary Wearing Surface Material</td>
<td>505-00.04 sq. foot</td>
</tr>
<tr>
<td>HDPE Plastic Concrete Slat</td>
<td>505-00.02 sq. foot</td>
</tr>
<tr>
<td>Structural Repair Formed</td>
<td>704-01.02 sq. foot</td>
</tr>
<tr>
<td>Overlay Repair (Unformed)</td>
<td>704-01.04 sq. foot</td>
</tr>
<tr>
<td>Superstructure Repair (Unformed)</td>
<td>704-01.04 sq. foot</td>
</tr>
<tr>
<td>Full Depth Repair</td>
<td>704-01.04 sq. foot</td>
</tr>
<tr>
<td>Skid Cover Repair (Bridge)</td>
<td>704-01.04 sq. foot</td>
</tr>
<tr>
<td>Cleaning and Epoxy Coating</td>
<td>704-01.04 sq. foot</td>
</tr>
</tbody>
</table>

Design Specifications:

- 2002 AASHTO LRFD (17th Ed.) Standard Specifications

General Notes:

- Match existing concrete color.
- Match existing barrier.
- Roadway surfacing adjacent to bridge ends shall match new bridge wearing surface (roadway item).
- Cleaning and Epoxy Coating
- Use of Cleaning and Epoxy Coating
- Use of Cleaning and Epoxy Coating

Traffic to be maintained on __ during __ from __ to __.

Estimated Quantities

<table>
<thead>
<tr>
<th>Item</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete Wearing Surface</td>
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</tr>
<tr>
<td>Demolition Repair Surface</td>
<td>216-10-02 sq. yard</td>
</tr>
<tr>
<td>Supplementary Wearing Surface Material</td>
<td>505-00.04 sq. foot</td>
</tr>
<tr>
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<tr>
<td>Skid Cover Repair (Bridge)</td>
<td>704-01.04 sq. foot</td>
</tr>
<tr>
<td>Cleaning and Epoxy Coating</td>
<td>704-01.04 sq. foot</td>
</tr>
</tbody>
</table>

DESIGNED

CHECKED

CONTRACT NO.

RHB03c

THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED CONTRACT DOCUMENT.

DATE PREPARED

May 19, 2020

PROJECT NO.

RHB03c

ROOM

COUNTY

* *

DISTRICT

SEC/SUR           TWP           RGE

08-27-06 MO

BEG. STA. _________± (Match Existing)

FROM * TO *

REPAIRS TO BRIDGE: ROUTE *

REPAIRS TO BRIDGE: ROUTE *

NOTE: THIS DRAWING IS NOT TO SCALE. FOLLOW DIMENSIONS. Sheet No. 1 of 2
Deck Repair Notes:

1. Remove existing wearing surface plus ___" of existing deck.
2. Remove any damage to reinforcing bar.
3. Inspect special repair zones, complete the following repairs:
   a. Replace any special repair zone with full depth repair.
   b. Complete total surface hydro demolition, removing ___" of top concrete with ___" of existing deck.
4. Sound deck and if needed complete incidental concrete removal.
5. Place new wearing surface (including additional material for areas of monolithic deck repair) as required.

Special Repair Zones:

1. Any deck repair in areas not designated as special repair zones shall be completed after hydro demolition.
2. Deck repair required in the areas designated as special repair zones shall be completed before hydro demolition in alphabetical sequence beginning with Zone A. Zones with the same letter designation may be completed at the same time. All repairs in a given zone shall be completed before moving forward to the next special repair zone.
3. Special repair zones shall be completed before hydro demolition.
4. Complete total surface hydro demolition removing ___" of top concrete with ___" of existing deck for areas of special repair zone. Any deck repair in areas not designated as special repair zones shall be completed after hydro demolition.
5. Any deck repair in areas not designated as special repair zones shall be completed after hydro demolition.

Deck Repair Details:

- Remove ___" of existing deck.
- Remove ___" of existing deck.
- Replace any special repair zone with full depth repair.
- Complete total surface hydro demolition removing ___" of top concrete with ___" of existing deck.
- Sound deck and if needed complete incidental concrete removal.
- Place new wearing surface (including additional material for areas of monolithic deck repair) as required.

Part Plan of Slab Showing Special Repair Zones:

- Monolithic Deck Repair
- Full Depth Repair
- Half-Sole Repair
- Wearing Repair
- Full Depth Repair with Half-Sole Repair

Deck Repair Outside Special Repair Zones (After Hydro Demolition):

- Top of Existing Wearing Surface
- Top of New Wearing Surface
- Top of Existing Deck
- Existing Aggregates
- Milling and Hydro Demolition Limits

- Monolithic Deck Repair
- Full Depth Repair
- Half-Sole Repair
- Wearing Repair
- Full Depth Repair with Half-Sole Repair

Deck Repair Inside Special Repair Zones (Before Hydro Demolition):

- Monolithic Deck Repair
- Full Depth Repair
- Half-Sole Repair
- Wearing Repair
- Full Depth Repair with Half-Sole Repair

Order of Repair:

1. Power wash deck to identify sound and unsound concrete.
2. Remove ___" of existing deck.
3. Sound deck and if needed complete incidental concrete removal.
4. Complete total surface hydro demolition removing ___" of top concrete with ___" of existing deck.
5. Place new wearing surface (including additional material for areas of monolithic deck repair) as required.
Hydro Demolition Case 2A:
Zoned Conventional Deck Repair Before Hydro Demolition and Non-Zoned Conventional Deck Repair After Hydro Demolition

(Adding First Wearing Surface)

SUPPLEMENTARY WEARING SURFACING (Continued) - Sheet No. 1 of 6

Description of Bridge Deck and Terk Repair

RHB03e     Effective: Aug. 2020     Supersedes: Apr. 2020

Note: This drawing is not to scale. Follow dimensions. Sheet No. 1 of

U.I.P. AND REHABILITATE EXISTING (X'-X'-X') CONTINUOUS CONCRETE BOX GIRDER SPANS

Estimated Quantities

<table>
<thead>
<tr>
<th>Item</th>
<th>Total</th>
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<tr>
<td>Total Surfacing Material</td>
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</tr>
<tr>
<td>Repairs to Existing Concrete</td>
<td></td>
</tr>
<tr>
<td>Asp Repairs to Existing Concrete</td>
<td></td>
</tr>
<tr>
<td>Sup. Surfacing Material</td>
<td></td>
</tr>
<tr>
<td>Superstructure Repair (Formed)</td>
<td></td>
</tr>
<tr>
<td>Substructure Repair (Unformed)</td>
<td></td>
</tr>
<tr>
<td>Mill-Sole Repair</td>
<td></td>
</tr>
<tr>
<td>Slab Edge Repair</td>
<td></td>
</tr>
<tr>
<td>Traffic Barrier</td>
<td></td>
</tr>
<tr>
<td>Temporary Concrete Repairs</td>
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</tr>
<tr>
<td>Low Slump Concrete Wearing Surf.</td>
<td></td>
</tr>
<tr>
<td>Low Slump Concrete Wearing Surf.</td>
<td></td>
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<tr>
<td>Low Slump Concrete Wearing Surf.</td>
<td></td>
</tr>
<tr>
<td>Low Slump Concrete Wearing Surf.</td>
<td></td>
</tr>
</tbody>
</table>

General Notes:

A.1 Design Specifications:

A.2 Design Loadings:

A.3 Design Unit Stresses:

I.1.0 roadway surfaces adjacent to bridge shall match new bridge wearing surface (roadway item).

I.1.2 All concrete repairs shall be in accordance with Sec. 704, unless otherwise noted.

I.1.3 Outline of old work shall be indicated by heavy dashed lines. Heavy lines indicate new work.

I.2.0 Concerter shall verify all dimensions if field before ordering new materials.

I.1.0 In order to maintain grades 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 use of furnishing and installing the wearing surface shall be considered completely covered in the contract unit price, including all special labor, materials or equipment for variations in thickness or thickness of wearing surfaccs.

I.1.1 In order to maintain grades 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 use of furnishing and installing the wearing surface shall be considered completely covered in the contract unit price, including all special labor, materials or equipment for variations in thickness or thickness of wearing surfaccs.

I.1.2 All concrete repairs shall be in accordance with Sec. 704, unless otherwise noted.

I.1.3 Outline of old work is indicated by heavy dashed lines. Heavy lines indicate new work.
Deck Repair Notes:

- **1.** Scourify existing deck.
- **2.** Supercap zone to identify sound and unsound concrete areas.
- **3.** Inside special repair zones: complete the following repairs:
  - Full-depth repair
  - Half-sole repair
- **4.** Outside special repair zones: complete the following repairs:
  - Half-sole repair
  - Full-depth repair
- **5.** Complete total surface hydro demolition. Removing all unsound concrete in the special repair zones.
- **6.** Sound deck and it is needed complete incidental concrete repair.
- **7.** Complete special repair zones: complete the following repairs:
  - Half-sole repair
  - Full-depth repair
- **8.** Replace new wearing surface (including additional material for areas of monolithic deck repair).

Special Repair Zones:

- **1.** Monolithic and half-sole repair
- **2.** Deck repair outside special repair zones (after hydro demolition)
- **3.** Deck repair inside special repair zones (before hydro demolition)

**Deck Repair Details:**

- **Detail A**: Monolithic deck repair shall be used when only half the diameter of the top bar is exposed. Crossbars will be replaced when necessary. New wearing surface (including additional material for areas of monolithic deck repair).
- **Detail B**: Monolithic deck repair shall be used when only half the diameter of the top bar is exposed. Crossbars will be replaced when necessary. New wearing surface (including additional material for areas of monolithic deck repair).
- **Detail C**: Monolithic deck repair shall be used when only half the diameter of the top bar is exposed. Crossbars will be replaced when necessary. New wearing surface (including additional material for areas of monolithic deck repair).
Hydro Demolition Case 2B:
Zoned Conventional Deck Repair Before Hydro Demolition and Non-Zoned Conventional Deck Repair After Hydro Demolition
(Replacing Existing Wearing Surface)

STANDARD DRAWING GUIDANCE (do not show on plans)
- Use for the following concrete wearing surfaces:
  - 3/4" to 3" Polyester Polymer
  - 2 1/4" to 3" Low Slump

If optional concrete wearing surface is specified and low slump or polyester polymer is an option follow guidance on Sheet 1B05:

** Match existing concrete color.
** Match existing deck repairs to existing concrete.

OUTSIDE SPECIAL REPAIR ZONES (POST-HYDRO DEMOLITION)

IN-INSIDE SPECIAL REPAIR ZONES (PRE-HYDRO DEMOLITION)

Estimated Quantities

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<thead>
<tr>
<th>Item</th>
<th>216-10.01</th>
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<th>Total</th>
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<tbody>
<tr>
<td>Total Surface Hydro Demolition</td>
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<td>sq. yard</td>
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</tr>
<tr>
<td>Removal of Concrete Wearing Surface</td>
<td>sq. yard</td>
<td>sq. yard</td>
<td>x</td>
</tr>
<tr>
<td>Supersaturated Wearing Surface Material</td>
<td>cu. yard</td>
<td>cu. yard</td>
<td>x</td>
</tr>
<tr>
<td>Repair (Unformed)</td>
<td>cu. yard</td>
<td>cu. yard</td>
<td>x</td>
</tr>
<tr>
<td>Repair</td>
<td>cu. yard</td>
<td>cu. yard</td>
<td>x</td>
</tr>
<tr>
<td>Cleaning and Epoxy Coating</td>
<td>sq. yard</td>
<td>sq. yard</td>
<td>x</td>
</tr>
</tbody>
</table>

A1.1 Design Specifications:
2002 AASHTO LFD 11th Ed. Standard Specifications

A1.2 Design Loadings:
Year

A1.3 Design Unit Stresses:
Class Concrete (Half-Sole and Full Depth) f'c = 4,000 psi

A1.9 Highway surfacing adjacent to bridge ends shall match new bridge wearing surface (roadway item).

A3.8 Supplementary wearing surface material will be paid for at the fixed unit price in the Schedule of Values.

A3.9 Contractor shall verify all dimensions if fixed before ordering the material.

A3.10 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 furnishing and installing the wearing surfaces will be considered completely covered in the contract unit price, including all aerial labor, materials or equipment for variations in thickness or wearing surfaces.

Traffic Movements:

REPAIRS TO BRIDGE: ROUTE * OVER *
ROUTE * FROM * TO *
ABSTRACT * SHEETS * OF *
Deck Repair Notes:

1. Remove existing wearing surface plus 1/8" of existing deck.
2. Replace all deck slabs and diaphragm or web uncertain areas that will not expose half the diameter of the top reinforcing bar. Full depth repair shall be performed in the next special repair zone.
3. Inside special repair zones, complete the following repairs:
   a. Half-sole repair
   b. Full depth repair
4. Inside special repair zones, complete the following repairs:
   a. Half-sole repair
   b. Full depth repair
5. If any single repair area does not exceed 9 square feet, a certified contractor shall perform the following repairs:
   a. Half-sole repair
   b. Full depth repair
   c. Remove if repair is not required.
6. Sound deck and if needed complete incidental concrete removal.
7. Outside special repair zones, complete the following repairs:
   a. Half-sole repair
   b. Full depth repair
8. Place new wearing surface including addition concrete of existing deck.

Special Repair Zones:

-完了-
Conventional Deck Repair Only

(Case A)

(Adding First Wearing Surface or Applying Concrete Crack Filler)

STANDARD DRAWING GUIDANCE (do not alter on plans)

May be used for all wearing surfaces and when applying concrete crack filler.

Specification not required when applying concrete crack filler or with the following wearing surfaces:
- Seal Coat
- Asphalt
- Epoxy Polymer
- MMA Polymer Slurry
- UABWS
- Seal Coat

Scarification not required when applying concrete crack filler or with the following wearing surfaces:
- MMA Polymer Slurry
- Epoxy Polymer
- 3/8" MMA Polymer Slurry
- 3/4" to 3" Polyester Polymer Concrete
- 1/4" Epoxy Polymer
- 3/8" to 3" Polyester Polymer Concrete
- 3/4" UABWS Polymer Slurry
- 4" to 5" Reinforced Concrete Slab
- 3/8" Chip Seal Grades A
- 1" to 2" Optional Asphaltic Concrete
- 1/2" to 3/4" Optional Ultrathin Bonded Asphalt

General Notes:

A1.1 Design Specifications:
- 2002 ASTM C1775 Standards
- Bridge Deck Repair

A1.2 Design Loading:
- Use minimum 20,000 lb per axle

A1.3 Design Unit Stress:
- Class (A1.3) I: Concrete (Half-Sole and Full Depth) Repair: 4000 psi

1.0 Roadway surfacing adjacent to bridge ends shall match new bridge wearing surface (roadway deck).

2.0 Reinforcement shall be a minimum of 1/2" wide before ordering.

3.0 Concrete, if required, shall be in accordance with Sec 704, unless otherwise noted.

4.0 Outline of old work is included by black dashed lines. Heavy lines indicate new work.

5.0 Contractor shall verify all dimensions before ordering new materials.

6.0 Traffic restrictions shall be maintained during construction. Traffic to be maintained on existing roadway.

REPAIRS TO BRIDGE: ROUTE * OVER *

ROUTE FROM * TO * ABOUT MILES * OF * FROM * TO *

ASB & MILES * OF * FROM * TO *

NOTE: This drawing is not to scale. All dimensions should be read from the drawing. Sheet No. 1 of 8.

RHB03_CIP_Mono_Box_Girder.dgn

This media should be considered as confidential and is not to be released to the public. Any unauthorized duplication or disclosure of this media shall be considered a violation of law.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.
Special Repair Zones:

- Any deck repair in areas not designated as a special repair zone shall be completed prior to 40 work in Zone A.
- Deck repair required in the area as designated as special repair zones shall be completed in alphabetical sequence beginning with Zone A. Zones with the same letter designation may be repaired at the same time.
- Special Repair Zones:
  1. Any deck repair zone designated as a special repair zone shall be repaired at the same time.
  2. Full depth repair shall be completed in the special repair zone.
  3. Total width of deck repair shall not exceed 1/3 of the column span. For any area of deck repair that extends over a width and 75 more than 18 inches, the area shall be treated as a special repair zone.

Deck Repair Notes:

1. Sound deck to identify areas in need of repair.
2. Outside special repair zones, complete the following repairs:
   - Half-edge repair
   - Full-depth repair
3. Inside special repair zones, complete the following repairs:
   - Half-edge repair
4. Place new wearing surface.
5. Place new wearing surface.

For seal coat, asphalt, UBAWS, epoxy polymer, or MMA polymer:

- Replace "Wearing Surface" with "Concrete Crack Filler".
- Adjust wearing surface thickness for thin wearing surfaces.
- Adjust top of the original depth dimension to the bottom of the wearing surface.
- Replace "Concrete Crack Filler" with "Concrete Crack Filler".

For application of concrete crack filler:

- Adjust wearing surface thickness for thin wearing surfaces.
- Adjust top of the original depth dimension to the bottom of the wearing surface.
- Delete Dimension/Note (1) and renumber others.

SDG:

- Slurry wearing surfaces:
  - Replace "Wearing Surface" with "Concrete Crack Filler".
  - Adjust wearing surface thickness for thin wearing surfaces.
  - Adjust top of the original depth dimension to the bottom of the wearing surface.
  - Delete Dimension/Note (1) and renumber others.

- For application of concrete crack filler:
  - Adjust wearing surface thickness for thin wearing surfaces.
  - Adjust top of the original depth dimension to the bottom of the wearing surface.
  - Delete Dimension/Note (1) and renumber others.
Conventional Deck Repair Only

(Case B)

(Replacing Existing Wearing Surface)

**General Notes:**

A1.1 Design Specifications:

2002 ASHTA LRFD Bridge Design Specifications

A1.2 Design Loadings:

- Live Load:
  - H-20
  - HS-20

A1.3 Design Unit Stresses:

- Class C Concrete: f'c = 4,000 psi

A1.6 roadway surface area adjacent to bridge ends shall be considered completely covered in the contract unit price, including all spalls that occur. No materials or equipment for variations in thickness of wearing surfaces.

A1.7 Controls shall verify all dimensions before ordering new materials.

A2.2 All concrete repairs shall be in accordance with Sec 704, unless otherwise noted.

A2.3 Outline of old work is indicated by light dashed lines. Heavy lines indicate new work.

A3.8 Traffic Conditions:

- Traffic to be considered at design speed.

A5.1 Estimating Items:

- Concrete Repair
- Epoxy Polymer
- UBAWS
- Asphalt
- Seal Coat

**Estimated Quantities**

<table>
<thead>
<tr>
<th>Item</th>
<th>Sheet No.</th>
<th>Project No.</th>
<th>County</th>
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<tbody>
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<td>MO</td>
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<tr>
<td>Half-Sole Repair</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**

- This drawing is not to scale. Follow dimensions.

- Estimated Quantities

- Standard Drawing Guidance (do not show on plans)

- May be used for all wearing surfaces.

- Specification not required with the following wearing surfaces:
  - Seal Coat
  - Asphalt
  - Epoxy Polymer
  - UBAWS
  - NBA Polymer Slurry

- Concrete repairs shall be in accordance with Sec 704, unless otherwise noted.

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

- Traffic Conditions:

- Traffic to be considered at design speed.

- Estimating Items:
  - Concrete Repair
  - Epoxy Polymer
  - UBAWS
  - Asphalt
  - Seal Coat
**Deck Repair Notes:**

1. **Defining Repair Area:**
   - Remove all existing wearing surface in the defined repair area.
   - Remove all existing reinforcing bar and concrete in the defined repair area.
   - If any deck repair area does not exceed 9 square feet, the concrete removal shall be limited to the deteriorated area. If the repair area exceeds 9 square feet, the concrete shall be removed to the depth of the deteriorated area.

2. **Reinforcement:**
   - Full depth repair shall be specified when repair area exceeds 9 square feet.
   - Half-sole repair shall be specified when repair area does not exceed 9 square feet.

3. **Temporary Support:**
   - Prior to starting work in the repair area, temporary support shall be provided to maintain the structural integrity of the remaining deck.

4. **Concrete Mixing:**
   - All concrete shall be mixed to a compressive strength of 3200 psi before work can be started in the repair area.

5. **Curing:**
   - All concrete shall be cured for a minimum of 7 days after placement.

6. **Quality Control:**
   - All concrete placed in the repair area shall be tested for compressive strength and density.

7. **Final Inspection:**
   - All work shall be inspected by the inspector and approved by the engineer prior to issuance of the inspection report.

**Deck Repair Details:**

- **Full Depth Repair:**
  - Repair area exceeds 9 square feet.
  - Concrete removed to the full depth of the deteriorated area.

- **Half-Sole Repair:**
  - Repair area does not exceed 9 square feet.
  - Concrete removed to half the depth of the deteriorated area.

- **Temporary Support:**
  - Girder and diaphragm support shall be provided to maintain the structural integrity of the remaining deck.

- **Concrete Placement:**
  - All concrete placed in the repair area shall be tested for compressive strength and density.

- **Curing:**
  - All concrete placed in the repair area shall be cured for a minimum of 7 days after placement.

- **Final Inspection:**
  - All work shall be inspected by the inspector and approved by the engineer prior to issuance of the inspection report.

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**PART PLAN OF SLAB SHOWING SPECIAL REPAIR ZONES**

- **Special Repair Zones:**
  - Defined by dashed lines.

- **End of Slab:**
  - Note: This drawing is not to scale. Follow dimensions as shown.

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**Note:**

- Replacement of damaged concrete shall be made when removal of deteriorated concrete exposes longitudinal reinforcing bar. Full depth repair shall be specified when repair area exceeds 9 square feet.

- **End of Slab:**
  - Remove notes for repair if not required.

- **Surface:**
  - If a seal is present on this sheet, it has been electronically sealed and dated.