



Missouri Department of Transportation

STRUCTURAL REHABILITATION CHECKLIST

Bridge No.: A2809 **Job No.:** J613572

Route: IS 170 **Over:** UP RR

County: St. Louis County **Date of Field Check:** March 26, 2020

*** Please include photographs for all items that apply. ***

1

OVERLAY

- * Type of existing overlay: ☐ None ☐ Asphalt ☐ Low Slump ☐ Silica Fume ☐ Latex ☒ Epoxy ☐ Other: _____
- * Existing overlay thickness: 3/8 " * Year overlay was applied: 2005 ☐ Unknown
- * % of overlay repaired or patched: _____ % * Replace overlay: ☒ Yes ☐ No
- * Notes: Place Latex Modified Concrete Overlay

Picture # 1459, 1465, 1506, 1507

2A

DECK REPAIRS

(Deck repair quantities are required even if a Deck Test request has been ordered for this structure.)

- * Half-sole repairs: _____ sq. ft. (round up to the nearest 50 sq. ft.) * Full-depth repairs: 1475 sq. ft. (round up to the nearest 25 sq. ft.)
- * Slab edge repairs: _____ lin. ft. (covers the outer 4" of the slab edge) * Superstructure repair (Unformed): _____ sq. ft. (covers the remaining slab cantilever beyond the outer 4")
- * Clean & seal slab edge: _____ lin. ft. (in lieu of edge repairs) * Existing Deck Patching: _____ sq. ft. (round up to the nearest 25 sq. ft.)
- * Total surface hydro demolition bridge deck: ☒ Yes ☐ No * Full deck replacement (redeck): ☐ Yes ☒ No ☐ Optional (half-sole and full depth repair quantities still required)
- * Deck repairs with voided tube replacement: ☐ Yes ☐ No * Superstructure replacement: ☐ Yes ☐ No ☐ Optional (if applicable)
- * Full bridge replacement: ☐ Yes ☐ No ☐ Optional (Deck repair quantities required for cost comparison of alternatives)
- * How were the quantities obtained? ☒ Visual ☐ Bridge Inspection Report ☐ Sounded ☐ Other _____
- * Notes: Make Deck Integral along full width by eliminating Longitudinal Joints. Estimating 10% Monolithic Repairs.

Full depth repair quantity includes L-joint removal. Consider consultant contract for GPR/IR deck sounding for refined quantities

Picture # 1471, 1472, 1481-1482,

DECK REPAIRS CONT.*** ISSUES \ PROBLEMS WITH PRECAST PRESTRESSED DECK PANELS**

Spans	Location in Span						Deterioration		Describe
	At Panel Jt.	Btwn (mid) Panel Jt.	End	Mid	End		Type	Amount	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			sq. ft.	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			sq. ft.	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			sq. ft.	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			sq. ft.	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			sq. ft.	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			sq. ft.	

* Notes: **No Panels**

(Deterioration may include water saturation, efflorescence, rust staining, cracking, spalling, exposed steel, disintegration of panel edges at joints, etc. Typically observed at or near panel joints. The location and "Type" of deterioration should be recorded.)

Picture #

APPROACH SLABS

- * Is there a bridge approach slab in place? ☒ Yes ☐ No * Type: ☒ Concrete ☒ Asphalt ☐ Other _____
- * Is there a rdwy. approach pavement in place? ☒ Yes ☐ No * Type: ☒ Concrete ☐ Asphalt ☐ Other _____
- * Is the approach slab sinking at the end bent? ☐ N/A ☐ Yes ☒ No _____
- * Are repairs needed to the bridge approach slab driving surface? ☒ Yes ☐ No **105 SF at N Appr, 600 SF at S Appr.**
(Typically a roadway item but will be reported to district on the Bridge Memorandum.)
- * Full Replacement of Approach Slab? ☐ Yes ☒ No _____
- * Notes: **Include Approaches in Hydrodem/Overlay. Repairs can be accomplished monolithically.**

Approach at NE is covered with Asphalt, 1986 roadway plans show concrete bridge approach slab at all quads

Picture # **1460, 1504, 1505, 1510**

4

SLAB DRAINS

* Is the drainage system working adequately? ☒ Yes ☐ No

* Recommendations: Repair Basin at NW Quadrant Broken and Settled

* Notes: _____

Picture # **1461, 1462**

5

CURBS & RAILS

* Existing curb (left side): ☒ Safety Barrier Curb ☐ Curb/parapet ☐ Blockouts ☐ Thrie Beam ☐ Baluster ☐ Steel Channel

☐ Other _____ ☐ Handrail ☐ Fence _____

* Does curb need repair ☐ Yes ☒ No * Curb repair _____ lin. ft.

* Remove hand rail ☐ Yes ☐ No * Add curb blockout ☐ Yes ☐ No

* Existing curb (right side): ☒ Safety Barrier Curb ☐ Curb/parapet ☐ Blockouts ☐ Thrie Beam ☐ Baluster ☐ Steel Channel

☐ Other _____ ☐ Handrail ☐ Fence _____

* Does curb need repair ☐ Yes ☒ No * Curb repair _____ lin. ft.

* Remove hand rail ☐ Yes ☐ No * Add curb blockout ☐ Yes ☐ No

* Existing median curb: Type: Safety Barrier Curb Width _____ " Height _____ "

* Does curb need repair ☐ Yes ☐ No * Curb repair _____ lin. ft.

* Approach rail attachment: ☐ None ☐ Not attached ☐ 4 Hole ☒ 5 Hole ☐ Turn-down ☐ Other _____

* If the existing handrails will be removed, does the local maintenance supervisor wish to keep them? ☐ Yes ☐ No

Storage address: location: _____

address: _____

city: _____ state: _____ zip: _____

* Notes: Update Approach Rail at NW and SE to MASH Standards

Picture #

6

EXPANSION DEVICES

Bent	Type	Recommendations			Gap Left	Gap Right	Temperature & Other Info
1	Filled Joint	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	"	"	Install Open Cell Foam JT
2	Armored Silicone	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	"	"	Replace with Armored strip seal
3	Armored Silicone	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	"	"	Replace with armored strip seal
4	Filled Joint	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	"	"	Install Open Cell Foam JT
NB L1	Long. JT	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	"	"	Eliminate Long. JT & Tie Deck
SB L1	Long. JT	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	"	"	Eliminate Long. JT & Tie Deck

* Notes: Current Joint arrangement causing severe deterioration of intermediate bent cap under median curbline.

Picture # 1508, 1509

7

BEARINGS

Bent	Coating		Recommendations						Notes (indicate which bearings at each bent)
2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Replace curved plates w/ Neoprene bearings
3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Replace curved plates w/ Neoprene bearings
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

* Notes: If too costly to replace bearings, at minimum they need to be jacked, shotblast and recoated

Picture # (Provide Pictures of Each Bearing)

8

COATING SYSTEM (PAINT)

* Existing coating system: System S over System B ☐ green ☒ gray ☐ other _____

* Date last coated: 2006 * Is existing coating peeling? ☒ Yes (Overcoat is not an option) ☐ No

* Coating recommendation: ☒ Blast clean & recoat all steel ☐ Clean & overcoat all steel
☐ Blast clean & recoat only at joint locations ☐ Blast & recoat at joint locations and clean & overcoat all other steel

Note: Pull off test required for overcoat (Calcium Sulfonate) option. Bridge Division will request pull off tests.

* Notes: Existing System B Paint contains Lead. See LBP Inspection Memo for more details.

Picture # 1470

SUPERSTRUCTURE REPAIRS

(Repairs needed not previously stated.)

Concrete Slab Superstructure or Girder: (above the bearings)(Example: Deck solid slabs, voided slabs, box girder,
deck girders & prestressed girders)**Steel:** (Example: Beams, stringers, girders, diaphragms, cross-frames, misc. steel)**Member** (Check all that apply) (Attach pictures)**Describe & Locate**

_____	<input type="checkbox"/>	<u>Section Loss</u>	_____ %	<input type="checkbox"/>	<u>Cracks</u>	_____ in.	_____
_____	<input type="checkbox"/>	<u>Section Loss</u>	_____ %	<input type="checkbox"/>	<u>Cracks</u>	_____ in.	_____
_____	<input type="checkbox"/>	<u>Section Loss</u>	_____ %	<input type="checkbox"/>	<u>Cracks</u>	_____ in.	_____
_____	<input type="checkbox"/>	<u>Section Loss</u>	_____ %	<input type="checkbox"/>	<u>Cracks</u>	_____ in.	_____

Notes: **No issues noted.****Picture #****SUBSTRUCTURE REPAIR**

Bent	Formed Repair	Unformed Repair	Seal Concrete Beam Cap Bts.	Coat Exposed Pile @ Int. Pile Cap Bts.	Describe (Beam, Backwall, Wing, etc.)
<u>1</u>	_____ sq. ft.	<u>30</u> sq. ft.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<u>West Wing / Cap End</u>
<u>2</u>	_____ sq. ft.	<u>291</u> sq. ft.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<u>89SF at Cols, 202SF at Cap</u>
<u>3</u>	<u>24</u> sq. ft.	<u>154</u> sq. ft.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<u>46SF at Cols, 108SF UF at Cap, 24SF F at Cap</u>
<u>4</u>	_____ sq. ft.	<u>50</u> sq. ft.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<u>30Sf at Wings, 20SF at Cap End</u>
_____	_____ sq. ft.	_____ sq. ft.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____

* Does the structure need graffiti protection? ☒ No ☐ Bottom 8' of Concrete ☐ End Bents ☐ Other _____

Seal Exterior Ends of Caps and Under Median after Repairs, 15LF each Intermediate Bent. May need to Fiber Wrap Bent 2 West

* Notes: **End Cap Cantilever. REQUIRE shotcrete method for unformed repairs****Picture #** 1466, 1467, 1473-1480, 1482-1488, 1490-1497

11

SIGNS, SIGNALS &/OR LIGHTING ATTACHED TO STRUCTURE

- * Are there signs attached directly to this structure? ☐ Yes ☒ No quantity _____ location _____
- * Describe proposed work to be done to signs. _____
- * Are there signals attached directly to this structure? ☐ Yes ☒ No quantity _____ location _____
- * Describe proposed work to be done to signals. _____
- * Is there aviation lighting attached to this structure? ☐ Yes ☐ No ☒ N/A ☐ Red _____ ☐ Green _____
qnty. qnty.
- * Is there navigational lighting attached to this structure? ☐ Yes ☐ No ☒ N/A ☐ Red _____ ☐ Green _____
qnty. qnty.
- * Is there roadway lighting attached to this structure? ☐ Yes ☐ No ☒ N/A
- * Describe proposed work to be done to lighting. _____
- _____
- * Notes: _____

Picture #

12

UTILITIES ATTACHED TO STRUCTURE

Type			Qty.	Size	Owner	Condition			
<input checked="" type="checkbox"/>	Conduit	<input type="checkbox"/> Pipeline <input type="checkbox"/> Other	2	2"	Electric	<input type="checkbox"/> Repaint	<input type="checkbox"/> Repair	<input type="checkbox"/> Replace	<input type="checkbox"/> Remove
<input type="checkbox"/>	Conduit	<input type="checkbox"/> Pipeline <input type="checkbox"/> Other	1	3"	?	<input type="checkbox"/> Repaint	<input type="checkbox"/> Repair	<input type="checkbox"/> Replace	<input type="checkbox"/> Remove
<input type="checkbox"/>	Conduit	<input type="checkbox"/> Pipeline <input type="checkbox"/> Other	1	4"	Telephone	<input type="checkbox"/> Repaint	<input type="checkbox"/> Repair	<input type="checkbox"/> Replace	<input type="checkbox"/> Remove
<input type="checkbox"/>	Conduit	<input type="checkbox"/> Pipeline <input type="checkbox"/> Other	_____	_____	_____	<input type="checkbox"/> Repaint	<input type="checkbox"/> Repair	<input type="checkbox"/> Replace	<input type="checkbox"/> Remove

- * Notes: _____
- _____

Picture # 1463, 1464, 1468

13

CATHODIC PROTECTION SYSTEM

* Is there a cathodic system on this structure? ☐ Yes ☒ No ☐ Remove ☐ Do not alter ☐ Abandon in place (grooved system)

* Is it on and working? ☐ Yes ☐ No ☐ Unknown _____

* Notes: _____

Picture #

14

CHANNEL ALIGNMENT, SLOPE PROTECTION & SCOUR

* Is channel aligned to bridge opening? ☐ Yes ☐ No Describe _____

* Is drift a continual problem? ☐ Yes ☐ No Describe & Locate _____

* Is erosion a problem? ☒ Yes ☐ No Describe & Locate Fill Settlement at Abutments

* Describe slope protection in place. Paved Slope Panel

* Scour	At Footing	At Piling	Depth	Bent	Recommendation
	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____

* Describe needed work. Paved Slope Largely Functional

Picture # 1501

15

TRAFFIC LANES

* Number of lanes striped: on structure 8 under structure _____

* Shoulder width: ☐ None on structure 3 3 under structure _____
(left) (right) (left) (right)

* Sidewalk widths: on structure _____ under structure _____
(left) (right) (left) (right)

* Median width: on structure 16 under structure _____

* Proposed improvements for lanes/shoulders/sidewalks: _____

Picture #

16

GENERAL AREA CONDITIONS

* **Primary area:** ☒ Commercial ☒ Industrial ☐ Residential ☐ Agricultural ☐ Military ☐ Other _____

* **Posted speed limit on structure:** _____ mph

* **Posted load on structure:** _____ tons @ _____ mph ☐ NA

Single Unit: _____ tons @ _____ mph ☐ NA

Semi (tractor/trailer): _____ tons @ _____ mph ☐ NA

* **Are both signs in place?**

☐ Yes ☐ No

* **Do pedestrians and/or bicyclists regularly use this structure?** ☐ Yes ☒ No ☐ Undetermined

* **Notes:** _____

Picture #

17

MAINTENANCE

* **What work has been done to this structure that may not be reflected on existing bridge plans?** _____

Erosion Repair, Longitudinal Joints Patched Repeatedly

Picture #

18

ADDITIONAL FIELD NOTES

Picture #

19

STAGING / DETOUR

- * **Traffic Control:** ☐ Close structure ☒ Stage construction on structure ☐ Cross over traffic to adjacent structure ☐ Detour
- ☐ Other option 2 stages per direction. Other option is to close one direction at time and do in 2 stages

- * **Define probable detour route.** Discuss with Core Team
- _____
- _____

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PERSONS ASSISTING WITH CHECKLIST

Name	<u>Ryan Semar</u>	Title	<u>Asst. District Bridge Engineer</u>	Ph.	<u>(314) 453 - 1764</u>
Name	<u>Zachary Evans</u>	Title	<u>Sr. Construction Inspector</u>	Ph.	<u>(314) 453 - 5080</u>
Name	_____	Title	_____	Ph.	<u>() -</u>
Name	_____	Title	_____	Ph.	<u>() -</u>
Name	_____	Title	_____	Ph.	<u>() -</u>

21

REQUIRED SIGNATURES

I have reviewed the information on this checklist and believe it to be as accurate as possible.

Name	_____	Date	_____
	<i>Transportation Project Manager</i>		
Name	<u>Joseph Molinaro</u>	Date	<u>4/3/2020</u>
	<i>District Bridge Engineer</i>		

The structural rehabilitation checklist indicates how the bridge is functioning and aging.

All deterioration should be noted, even if it is known that the work will not be completed under the proposed project.

Send **NEW** Structural Rehabilitation Checklist by email

To: "Bridge Survey Processor"

Cc: Structural Project Manager or Structural Resource Manager



DSCF1459 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Top of Deck Southbound Looking South



DSCF1460 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Southbound North Approach Surface



DSCF1461 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
NW Quad Basin/Gutter



DSCF1462 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
NW Quad Basin/Gutter

DSCF1463 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
NW Quad Utility Box Broken



DSCF1464 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
West Elevation, Conduit



DSCF1465 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Top of Deck, Southbound Looking South



DSCF1466 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Northwest Wing





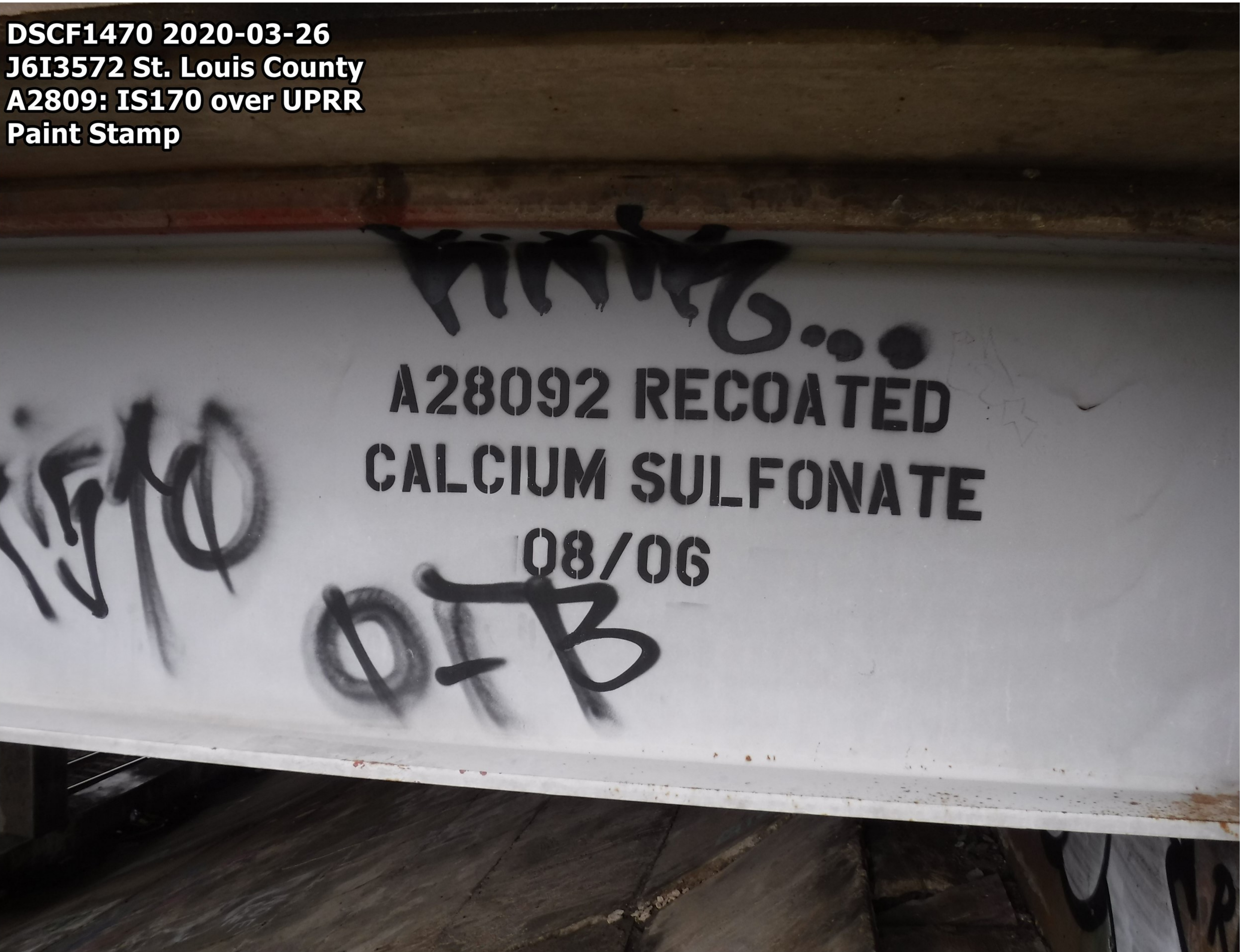
DSCF1467 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Abutment 4, West End



DSCF1468 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
East Elevation



DSCF1469 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
East Exterior Girder at Abutment 4



DSCF1470 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Paint Stamp



DSCF1471 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Span 3 Northbound Longitudinal Jt



DSCF1472 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Span 3 Bay 5



DSCF1473 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Bent 3 Looking South,
Span 3 (North Face)



DSCF1474 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Bent 3 Cap, West End Span 3 (N Face)



DSCF1475 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Bent 3 Cap, Span 3 (N Face)



DSCF1476 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Bent 3 Cap, Span 3 (N Face)



DSCF1477 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Bent 3 Cap, Span 3 (N Face)



DSCF1478 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Bent 3 Cap, Span 3 (N Face)

DSCF1479 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Bent 3, Column 1



DSCF1480 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Bent 3, Column 5



DSCF1481 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Span 3 Bottom of Deck



DSCF1482 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Span 2 Looking South







DSCF1487 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Bent 2 Looking South, North Face (Span 2)



DSCF1488 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Bent 2 Looking South, North Face (Span 2)



DSCF1489 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Span 2 Bottom of Deck at Longitudinal Joint



DSCF1490 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Bent 2 Column 4, Span 2

DSCF1491 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Bent 2 Cap, Span 1 South Face



DSCF1492 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Bent 2 Cap, Span 1 South Face



DSCF1493 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Bent 2 Column 4

DSCF1494 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Bent 2 Cap, South Face, Span 1





DSCF1495 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Bent 2 Cap, South Face, Span 1



DSCF1496 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Bent 2 Cap, South Face, Span 1



DSCF1497 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Bent 2 Cap, South Face, Span 1



DSCF1498 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Span 1 Bottom of Deck



DSCF1499 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Span 1 Bottom of Deck at Longitudinal Joint



DSCF1500 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Span 1 Bottom of Deck at Longitudinal Joint



DSCF1501 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
South Slope at Southeast Quad



DSCF1502 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Abutment 1 at West End

DSCF1503 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Southwest Wing



DSCF1504 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Southbound South Approach Slab



DSCF1505 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Northbound South Approach Slab



DSCF1506 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Top of Deck, Northbound Looking North



DSCF1507 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Top of Deck, Northbound Looking North



DSCF1508 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Northbound Bent 2 Joint



DSCF1509 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Northbound Bent 3 Joint



DSCF1510 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Northbound North Approach Slab

DSCF1511 2020-03-26
J6I3572 St. Louis County
A2809: IS170 over UPRR
Bent 3 East Exterior Bearing Typical

