MEMORANDUM

Missouri Department of Transportation Construction and Materials Southwest District



- CC: Johnny Teegardin, SW/DCME Morgan Stockman, CO/CM Stacy McMillian, CO/SLE Tyler Lindsay, CO/SPM Craig Switzer, SW/PM
- **FROM:** Nicole Preuss, R.G. Southwest District Geologist



- **DATE:** March 3, 2025
- SUBJECT: Materials and Construction Preliminary Geotechnical Report Route H, Bridge Replacement JSR0143, McDonald County

The preliminary geotechnical report for the above noted job has been completed. Job length has not been determined as of this time but should be roughly long enough to replace the bridge and get a smooth grade across the new structure. The proposed improvements consist of replacing the existing structure, Bridge Number R0305, over Goodin Hollow with a new structure of the same height and on the same alignment. This preliminary geotechnical report was prepared in accordance with existing bridge plans dated March 1963 and discussion with district design.

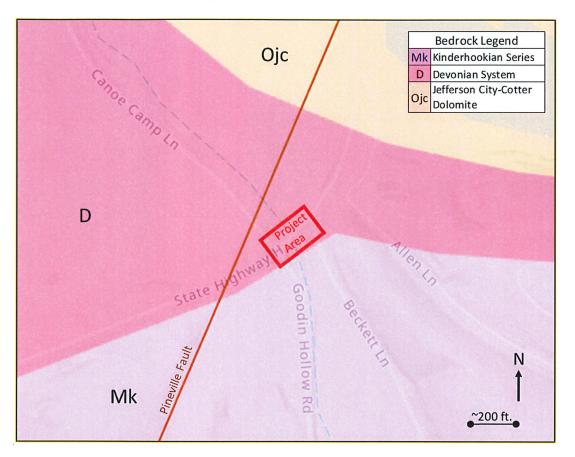
Three borings were drilled for the project, with one boring located in each quadrant of the bridge except the NE quadrant. Logs of subsurface information and the lab summary sheet with descriptions and soil properties encountered are attached. Additionally, the suggested wording for a JSP concerning Contractor Furnished Embankment in Place – Borrow is attached.

Soil Types and Geologic Formations

Soil to be encountered in the project limits as foundation soils is the Cedargap-Pomme-Waben Association as described by the USDA Natural Resources Conservation Service classification. The Waben-Cedargap soil is the most likely soil within the job area and is derived from alluvium. The soils are brown gravelly clays with low plasticity (CL) in the project limits. They have a plasticity index range of 8 to 11, liquid limit from 27 to 29 and group index between 0 and 4. They are medium stiff in consistency. Groundwater was not encountered.

Based on the Department of Natural Resources (DNR) GeoSTRAT map the most likely bedrock in the project area is Devonian aged (Fig. 1). The existing bridge plans from March 1963 indicate a black shale is present as bedrock. This is probably the Chattanooga Shale. Other bedrock near the project area are the Mississippian aged Kinderhookian Series and the Ordovician aged Jefferson City-Cotter Dolomite. The Pineville fault is present north of the project area. Apparent bedrock was encountered in the borings at depths of between 24 to 26 feet below the surface.

Figure 1: Map showing the location of geologic structures and bedrock near the project area (per DNR GeoSTRAT website).



Grading Recommendations

It is unclear whether borrow material will be required to complete the job at this time. If the need for borrow is required Contractor Furnished Embankment in Place – Borrow will be employed. Suggested wording dealing with this JSP is attached.

Depending on the season of construction, soils may require moisture conditioning prior to placement of compacted fill material. If rock fill is required for the project, then material is available from the following operations: Benton County Stone – Mill Creek quarry, Anchor Stone – Jane quarry, or APAC – Gravette quarry.

Standard grading specifications now in effect should be adequate for this project.

Slopes

Lean clay soils with variable amounts of gravel and sand are present in the existing stable fill both east and west of Goodin Hollow. The fill was constructed in the 1960's and was built steeper than current guidelines allow. At this time, it is unclear whether the existing slopes will be widened in connection with a wider bridge than currently exists. If the existing fills are to be widened to accommodate a wider bridge/wider roadbed they should be constructed no steeper than 2.0H:1.0V. Likewise, if the grade is raised during final design of the project the slopes should also maintain the 2.0H:1.0V ratio. Widening of the existing slopes should be constructed in accordance with MODOT Standard Specification 203.4.11. Once plans are finalized, please submit them to the District Geologist for review to ensure preliminary recommendations are still valid.

Existing bridge fill heights are on the order of 12-feet. It is recommended the new design have a 2.0H:1.0V ratio for bridge fill spill with a rock blanket.

Foundations

Preliminary Bridge information for the structure over Goodin Hollow is available from plans of the existing structure. No critical foundation areas were discovered during this Preliminary Geotechnical Report.

<u>Drainage</u>

Proposed drainage will likely match the existing and discharge capacity will likely remain adequate.

Seeding

Seeding shall be as per MODOT Standard Specification Section 805 for the region that corresponds with the project location.

Attachments

- 1. JSP_Borrow_JSR0143
- 2. Lab_Summary_JSR0143
- 3. BL_Map_JSR0143
- 4. gINT_Logs_JSR0143
- 5. Subsurface Diagram_JSR0143
- 6. Soil_Map_JSR0143

Job No JSR0143 Route H McDonald County

Suggested wording for Job Special Provision: Contractor Furnished Embankment in Place – Borrow:

Design of this project was based on alluvial soils which are lean clays of generally low plasticity (CL) with considerable rock content. The recommended slope angle is 2.0H:1.0V. Contractor furnished borrow shall be equal to or better than the material assumed for the design and will be subject to approval of the engineer as provided in MODOT Standard Specification Section 106, and in accordance with Specification Section 203.3. Approval will be based on upon consideration of (1) various soil characteristics and dispersion of test values, (2) comparison with those used for design, (3) compliance with slope selection criteria outlined in Table 321.1 of the MoDOT Engineering Policy Guide. MISSOURI DEPARTMENT OF TRANSPORTATION DIVISION OF MATERIALS Summary for Preliminary Geotechnical Report* Page 1 of 1

COUNTY: McDonald

ROUTE: H

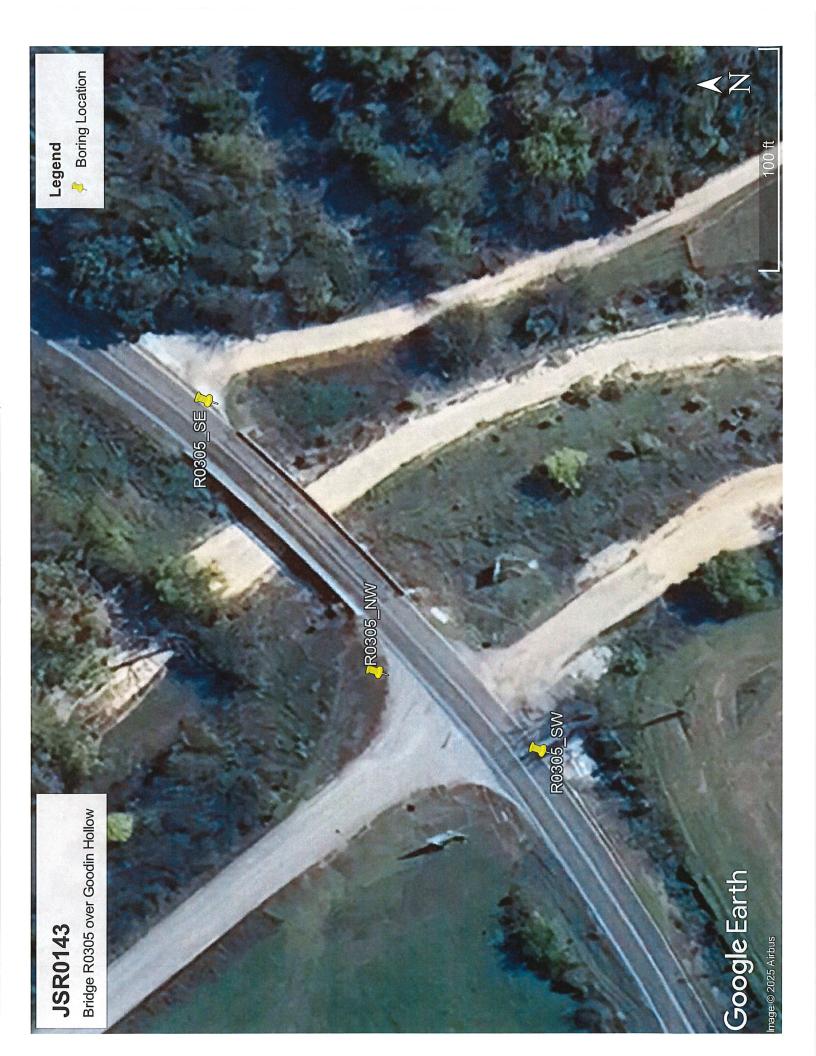
JOB NUMBER: JSR0143

	CLASSI	CLASSIFICATION			8	% PASSING	UD						
SAMPLE DEPTH	ASTM	ASTM AASHTO	DESCRIPTION	SHRINKAGE FACTOR	#10	#40	#200	Moisture Content	3	ЪГ	E	LOCATION SAMPLED	LAB NO.**
3.4-5.0′	CL	A-2-4(0)	Gravelly brown lean clay, moist, medium stiff	1.18	26.2	16.0	11.4	11%	28	20	~	354+48, 9.5'RT	25SWNEP015 R0305_SW
12.5- 14.7'	CL	A-6(4)	Brown lean clay, with gravel, moist, medium stiff	1.18	73.7	65.5	58.6	21%	29	18	11	354+48, 9.5'RT	25SWNEP016 R0305_SW
6.1-8.3′	CL	A-4(1)	Gravelly brown lean clay, moist, medium stiff	1.18	58.8	49.5	44.9	17%	27	18	ი	356+78, 934'RT	25SWNEP017 R0305_SE
16.1- 17.8′	CL	A-4(1)	Gravelly brown lean clay, moist, medium stiff	1.18	67.3	56.8	49.3	20%	27	19	∞	356+78, 934'RT	255WNEP018 R0305_SE
4.7-6.5′	CL	A-2-4(0)	Gravelly brown lean clay, moist, medium stiff	1.18	32.6	23.0	17.8	16%	29	21	ø	355+57, 19.7'LT	25SWNEP019 R0305_NW
SOIL /	SOIL ASSOCIATION: Cedargap-Pomme- Waben	TION: mme-	 Remarks: Shrinkage factors are estimated average data, based upon These samples represent soil that is formed from alluvium. 	average data, b at is formed froi	ased up m alluvi	oon typi um.	cal prope	rties of simil.	ar soils	listed	n the <u>c</u>	average data, based upon typical properties of similar soils listed in the <u>Geology & Soils Manual</u> at is formed from alluvium.	Manual.

Waben-Cedargap Complex for entire job length

*Descriptions & soil properties are represented only as average or typical values. **Test reports are on file with the District Geologist and in eProjects.

FORM M41



		Missouri Department					BORING NO	D. R0305_SW Page 1 of 1
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Is diffic		ning access to site? <u>No</u>						
Founda	ation problems, if any	No						
Will a s	special investigation b	e requested? No						
Other c	comments:							
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Missouri Department of Transportation Construction and Materials

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		Station:	Requested Easting:							
		Offset:								
		Elevation:	Equipment: <u>Mobile B-31</u> ,A							
	II No.: _(Location Note: Hammer Efficiency:						A	
		3-8607			T		ming wethod:	Continuous Flight	Auger	
HOLLOW.GPJ		Desc	ription	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N ₅₀)	Field Tests	Index Tests	
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00 Co	ordinate	System: Modified U.S. State Plan	ne 1983 Coordinate Zone: Miss	ouri We	est		Coordinate Pro	j. Factor: <u>1.000</u>	09513	
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Are	-	es, crevices or cavities anticipate								
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, Is c For For	Indation	problems, if any: No								
[™] Wil	l a speci	al investigation be requested? _N								
L Oth	er comn	nents:								

Missouri Department of Transportation Construction and Materials

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Design: R0305	Skew:	Location: Goodin Hollow
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Offset: _17.699 LT	Easting: _2822023.31	Depth to Water:
Elevation: 877.1	Requested Northing:	Depth Hole Open:
Requested Station:	Requested Easting:	Time Change:
Requested Offset:	Equipment: Mobile B-31, Auger Cuttings	
Requested Elevation:	Location Note:	
Drill No.: G-8807	Hammer Efficiency:	Drilling Method: Continuous Elight Auger

GOODINHOLLOW.GPJ	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N ₆₀)	Field Tests	Index Tests
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5		mations encountered: <u>Chattanooga Shale</u>						
	-	es, crevices or cavities anticipated? <u>No</u>						
Is sc	our ant	icipated? No						
່ Is dif	ficulty	anticpated in gaining access to site? No						—

Foundation problems, if any: <u>No</u>

Will a special investigation be requested? <u>No</u>

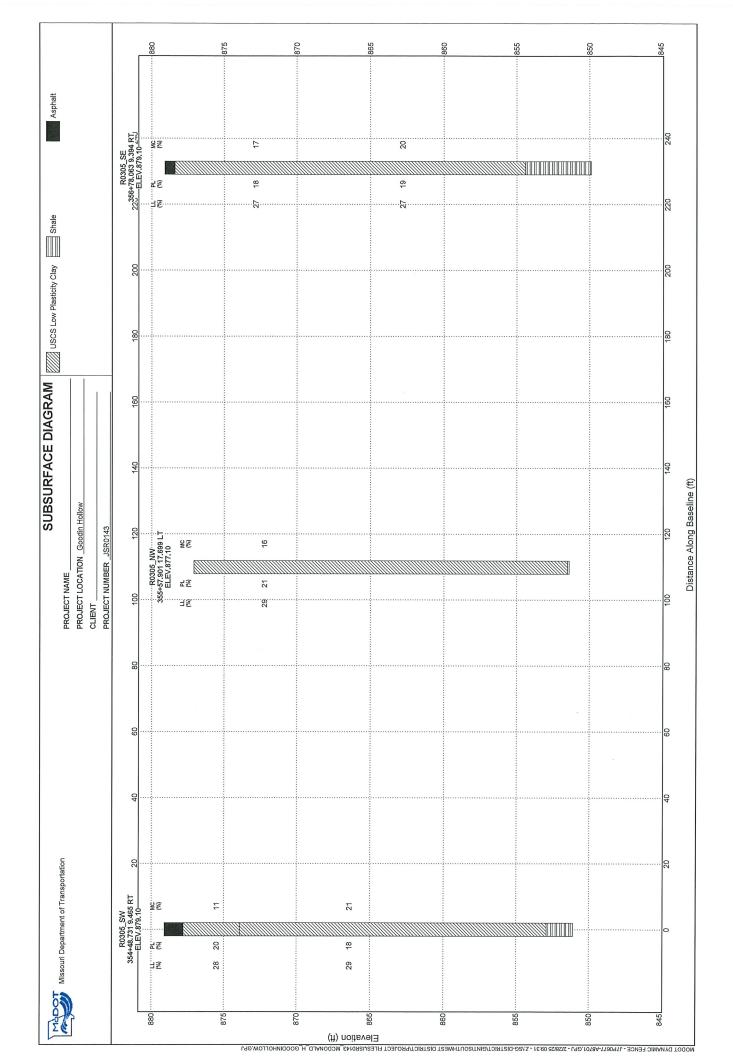
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 Other comments:



MODO	т	KEY TO SYMBOLS
and the	Missouri Department of Transportation	
CLIENT		PROJECT NAME
PROJECT N	UMBER JSR0143 F	PROJECT LOCATION Goodin Hollow
	OLOGIC SYMBOLS ied Soil Classification System)	SAMPLER SYMBOLS
	Asphalt	Auger Cuttings
	USCS Low Plasticity Clay	
	Shale	
		WELL CONSTRUCTION SYMBOLS
	ABBREV	IATIONS
PI W DD	- LIQUID LIMIT (%) - PLASTIC INDEX (%) - MOISTURE CONTENT (%) - DRY DENSITY (PCF)	TV - TORVANE PID - PHOTOIONIZATION DETECTOR UC - UNCONFINED COMPRESSION ppm - PARTS PER MILLION
-200 -	- NON PLASTIC - PERCENT PASSING NO. 200 SIEVE - POCKET PENETROMETER (TSF)	☑ Water Level at Time of Drilling
	- UNCONFINED COMPRESSIVE STRENGTH (PSF)	Water Level at End of Drilling
		ע Water Level after Drilling

KEY TO SYMBOLS - MODOT 20150728.GDT - 2/28/25 09:32 - Z/SG-DISTRICT/GINT/SOUTHWEST DISTRICT/PROJECT FILESUSR0143_MCDONALD_H_GOODINHOLLOW/GPJ



Soil Map—McDonald County, Missouri (JSR0143, Rte. H over Goodin Hollow)

Area of Int	Area of Interest (AOI) Area of Interest (AOI)	₩ <	Spoil Area Stony Spot	The soil surveys that comprise your AOI were mapped at 1:24,000.
Soils	Soil Mon Linit Dolving	9 8	Very Stony Spot	Warning: Soil Map may not be valid at this scale.
	Soil Map Unit Lines	Ð	Wet Spot	Enlargement of maps beyond the scale of mapping can cause misunderstanding of the datail of manufung and accuracy of soil
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) 🛛	Borrow Pit)	Streams and Canals	Please rely on the bar scale on each map sheet for map measurements.
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Z	Lava Flow	Backaround		accurate calculations of distance or area are required.
	Marsh or swamp		Aerial Photography	This product is generated from the USDA-NRCS certified data as
¢	Mine or Quarry			-
0	Miscellaneous Water			Soil Survey Area: McDonald County, Missouri Survey Area Data: Version 28, Aug 20, 2024
0	Perennial Water			0
>	Rock Outcrop			1:50,000 or larger.
╋	Saline Spot			Date(s) aerial images were photographed: Jul 18, 2019—Nov 9,
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ŵ	Severely Eroded Spot			the outphrace of outer base triap on which the southress were compiled and digitized probably differs from the background
¢	Sinkhole			imagery displayed on these maps. As a result, some minor shifting of man unit houndaries may be evident
A	Slide or Slip			
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2/19/2025 Page 2 of 3

Web Soil Survey National Cooperative Soil Survey

Natural Resources Conservation Service

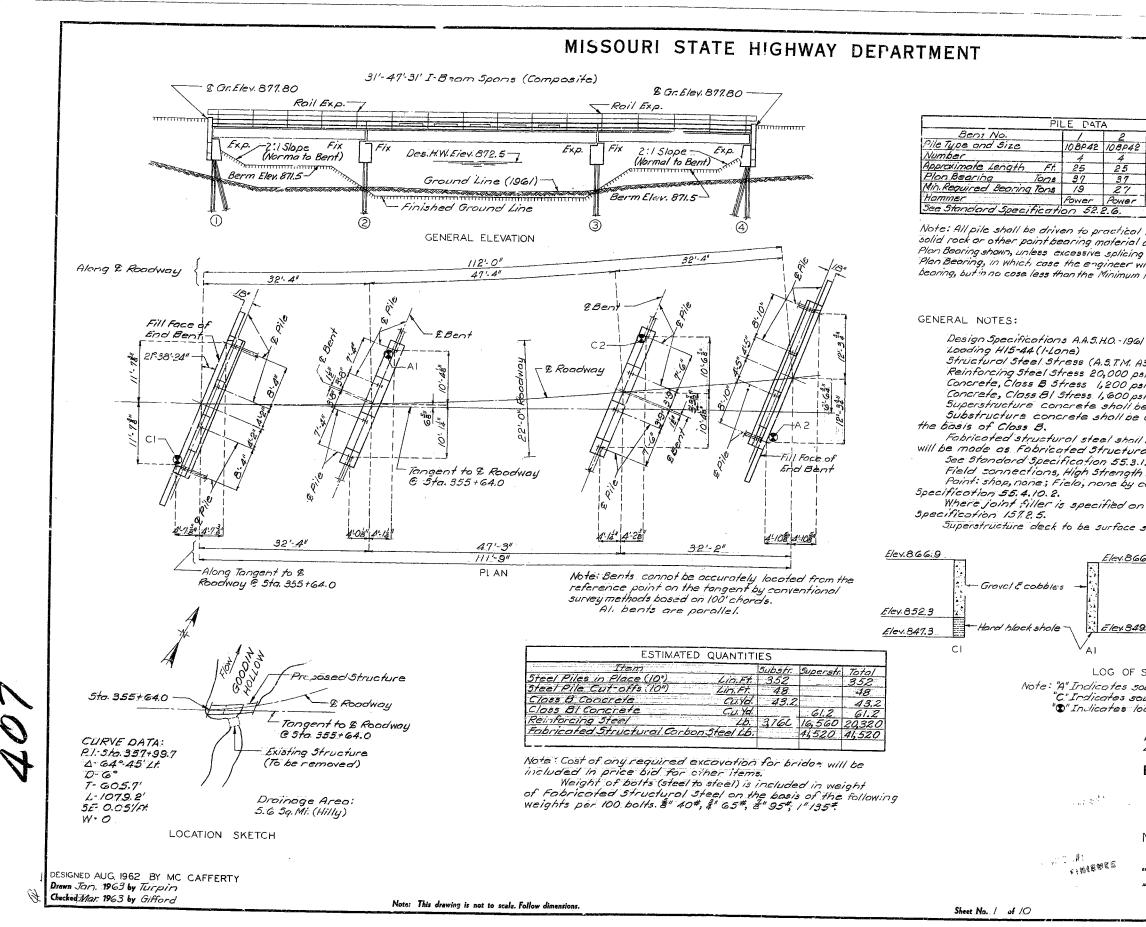
NSDA

Map Unit Legend

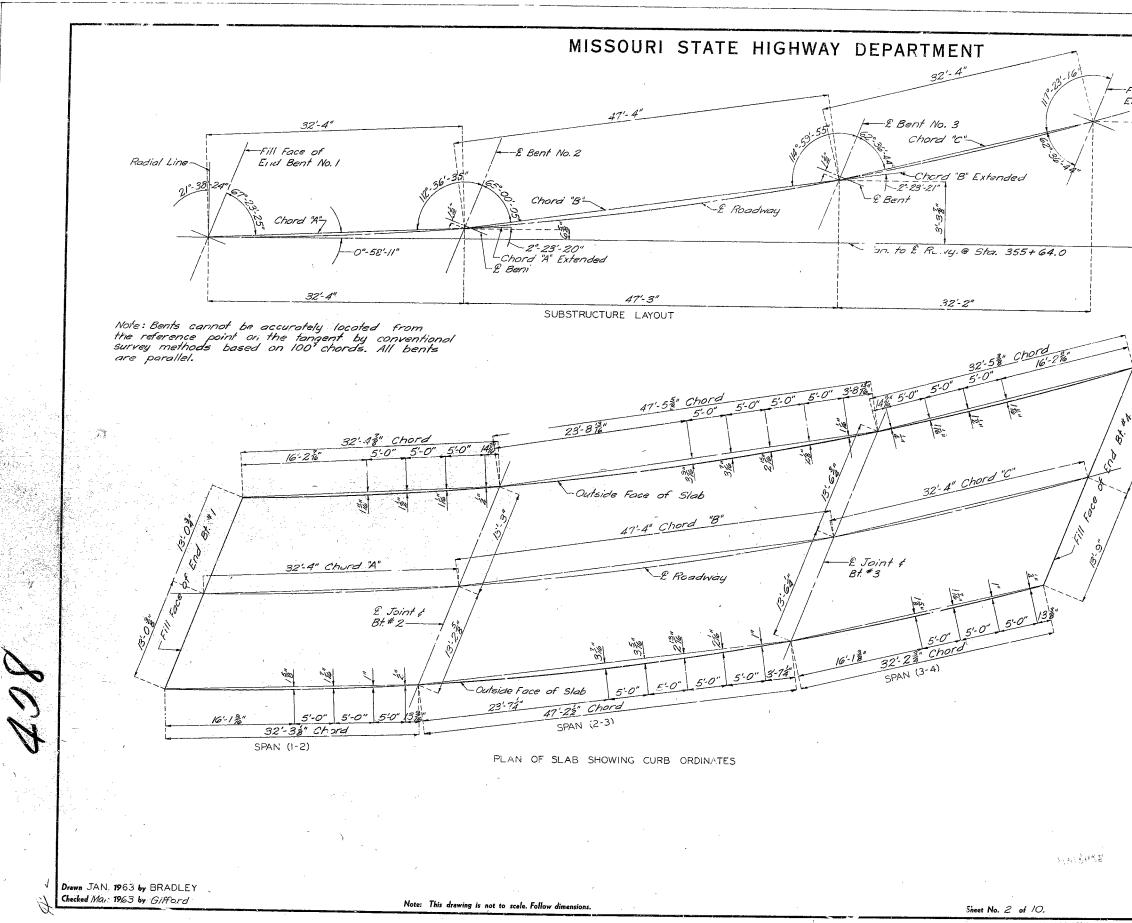
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
76754	Waben-Cedargap, occasionally flooded complex, 0 to 3 percent slopes	1.3	100.0%
Totals for Area of Interest		1.3	100.0%

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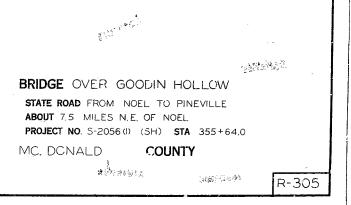


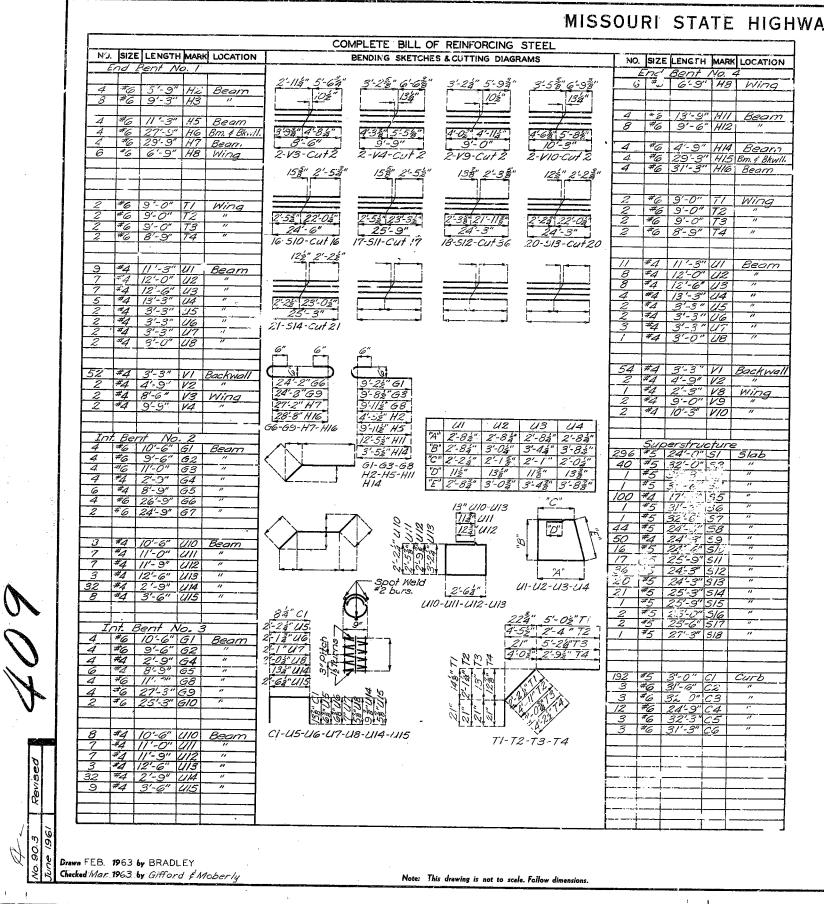
NO CONSTRUCTION CHANGES

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MISSOURI STATE HIGHWAY DEPARTMENT

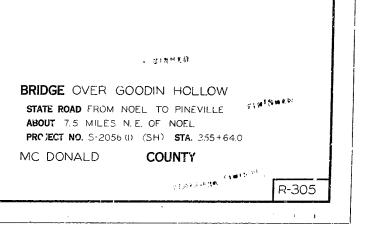
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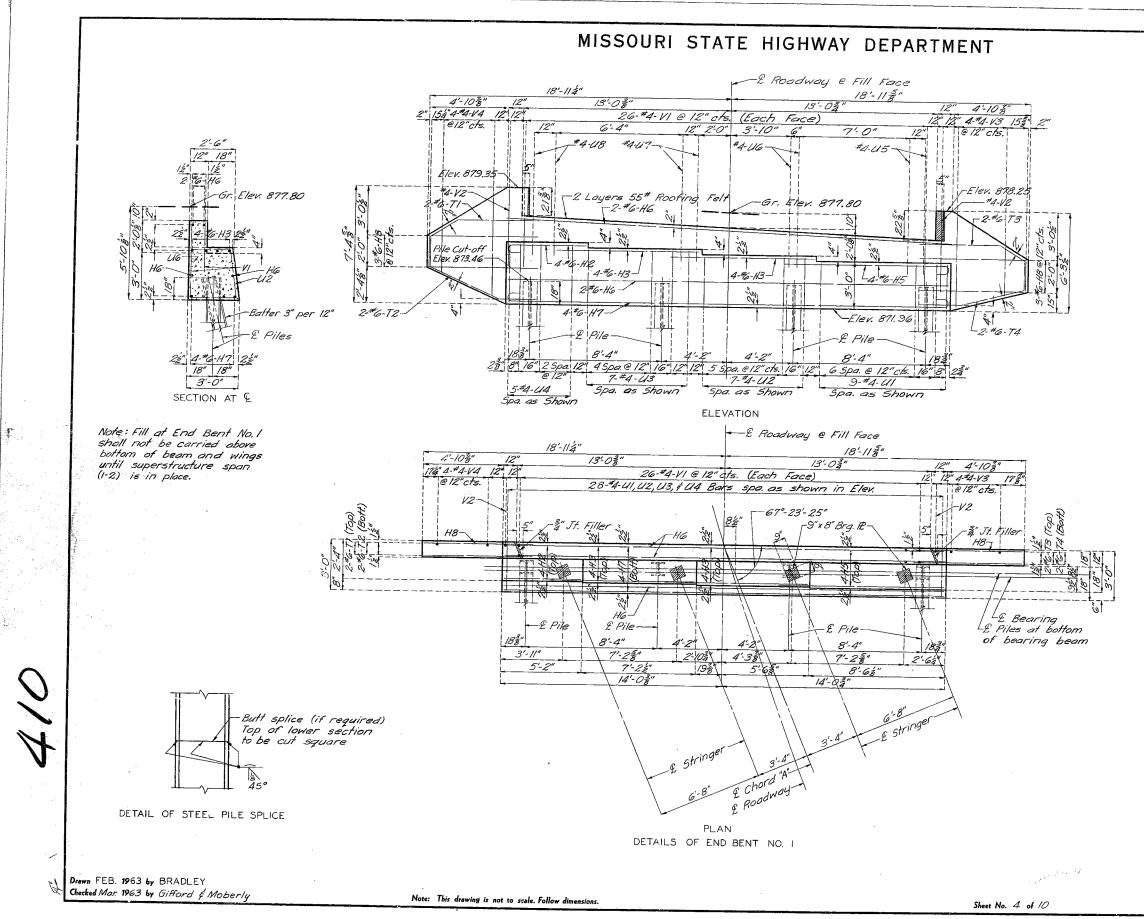
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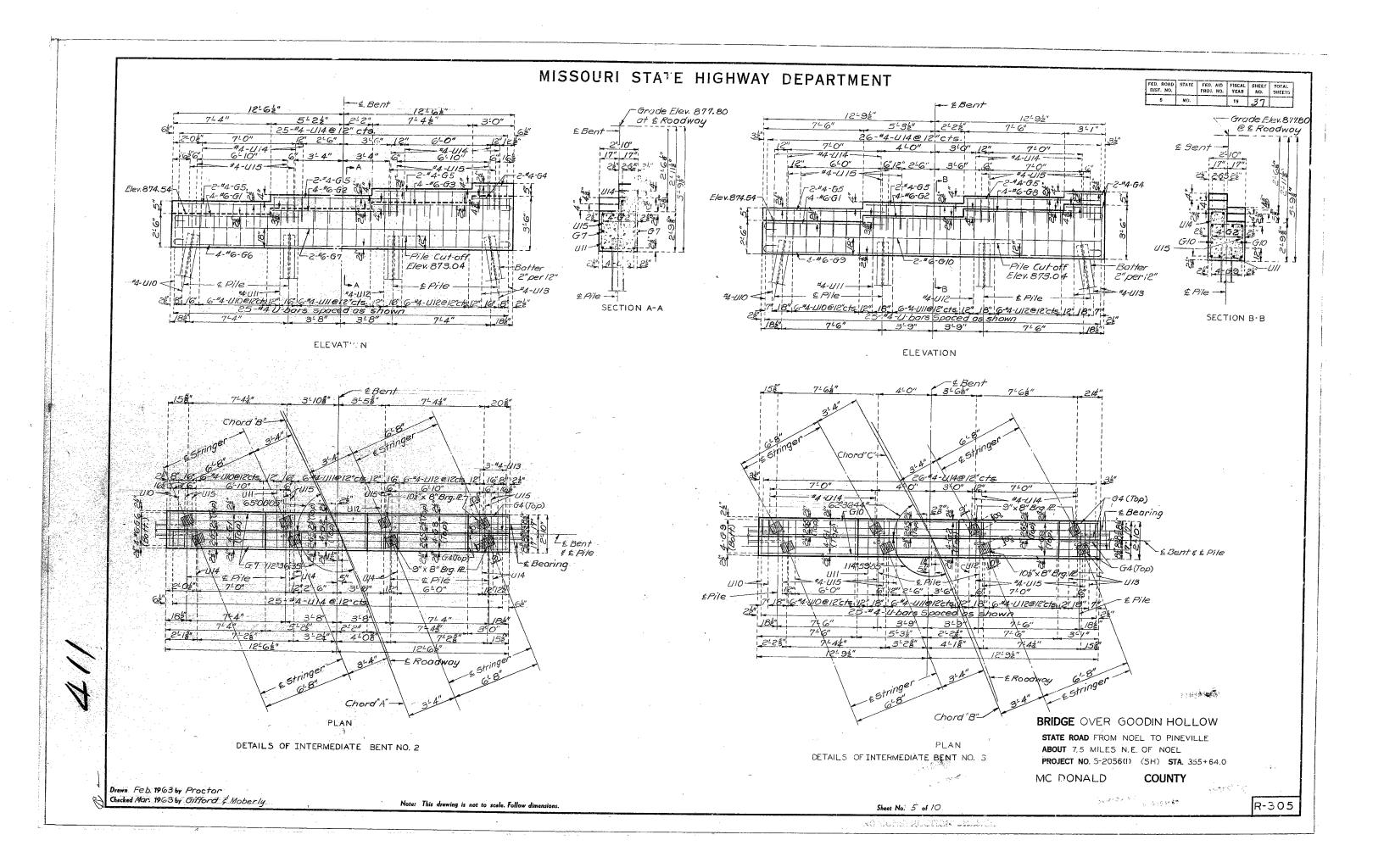
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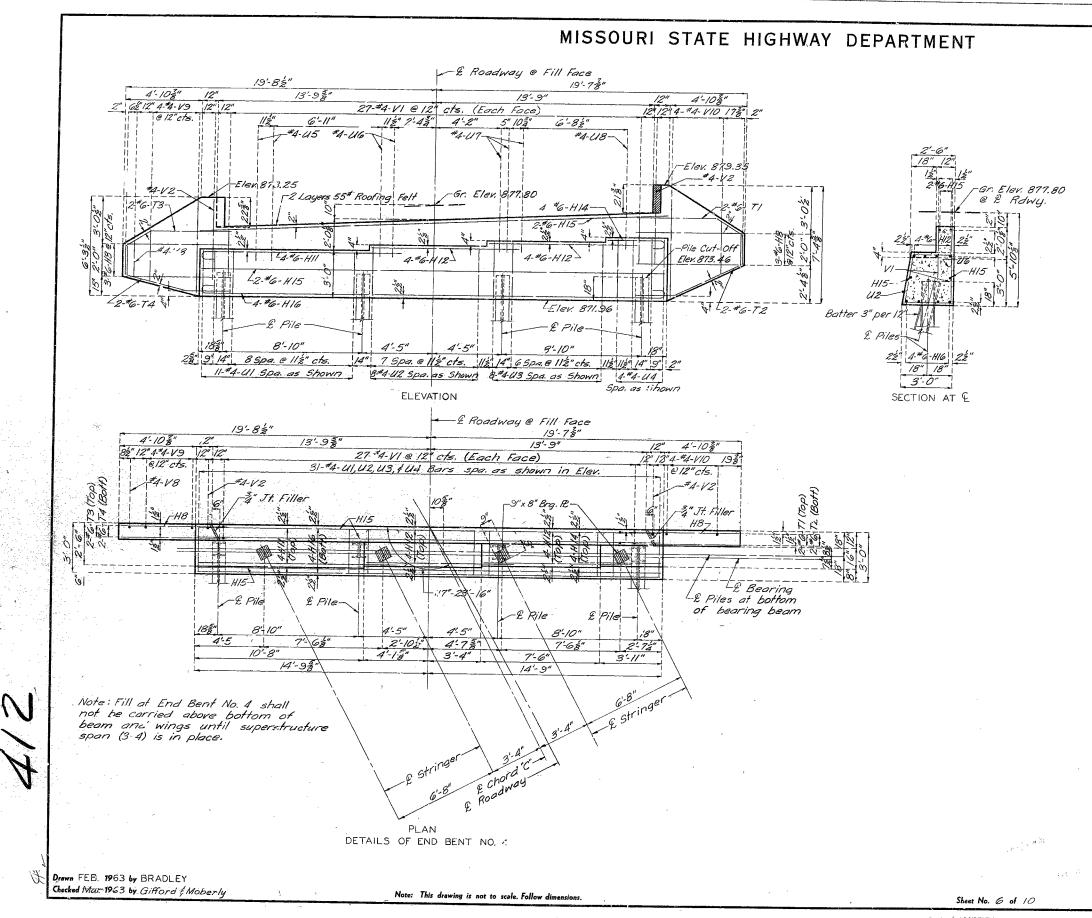




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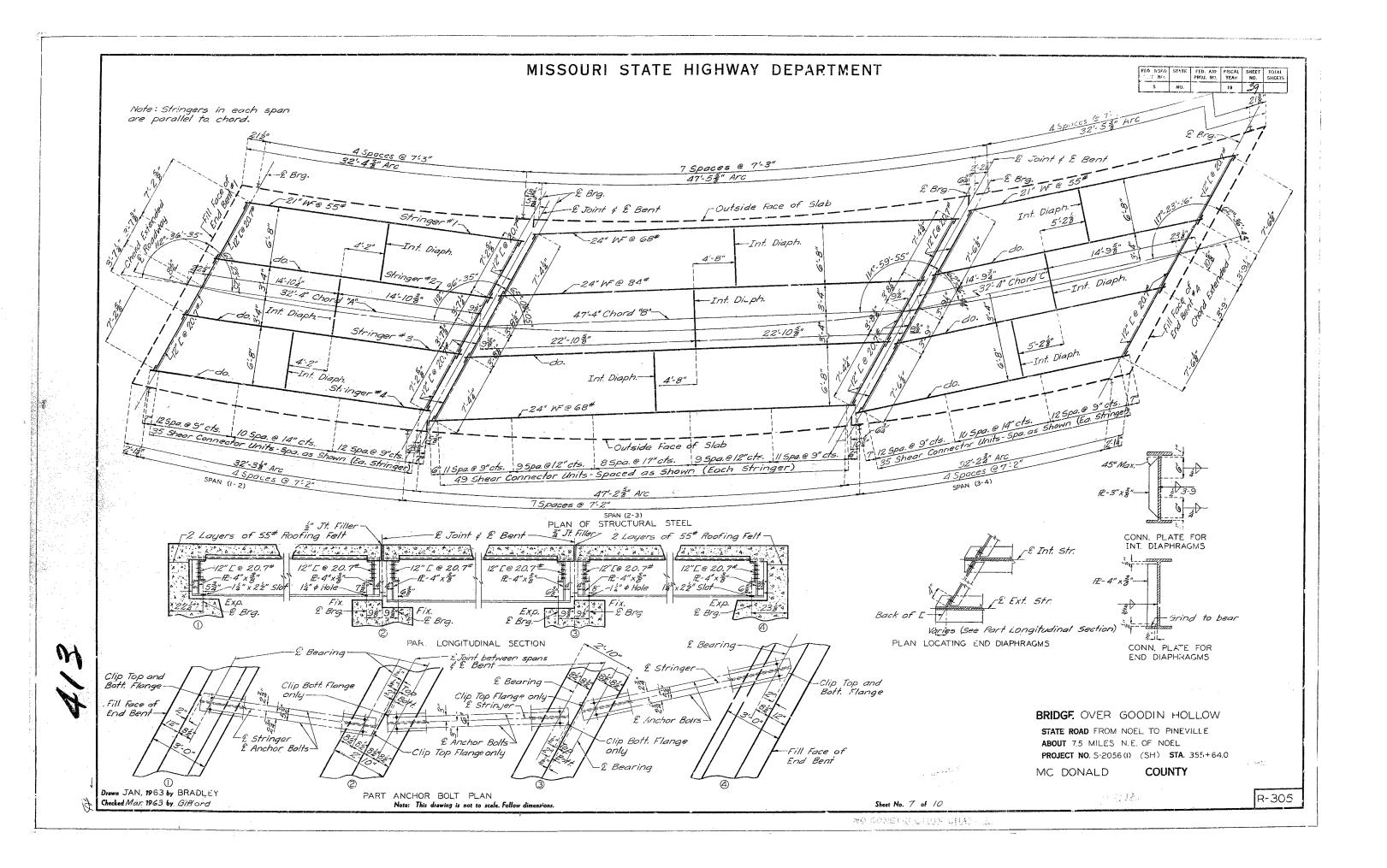
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BRIDGE OVER GOODIN HOLLOW	
STATE ROAD FROM NOEL TO PINEVILLE	
ABOUT 7.5 MILES N.E. OF NOEL	
PROJECT NO. S-2056 (I) (SH) STA. 355+64.0	
MC DONALD COUNTY	
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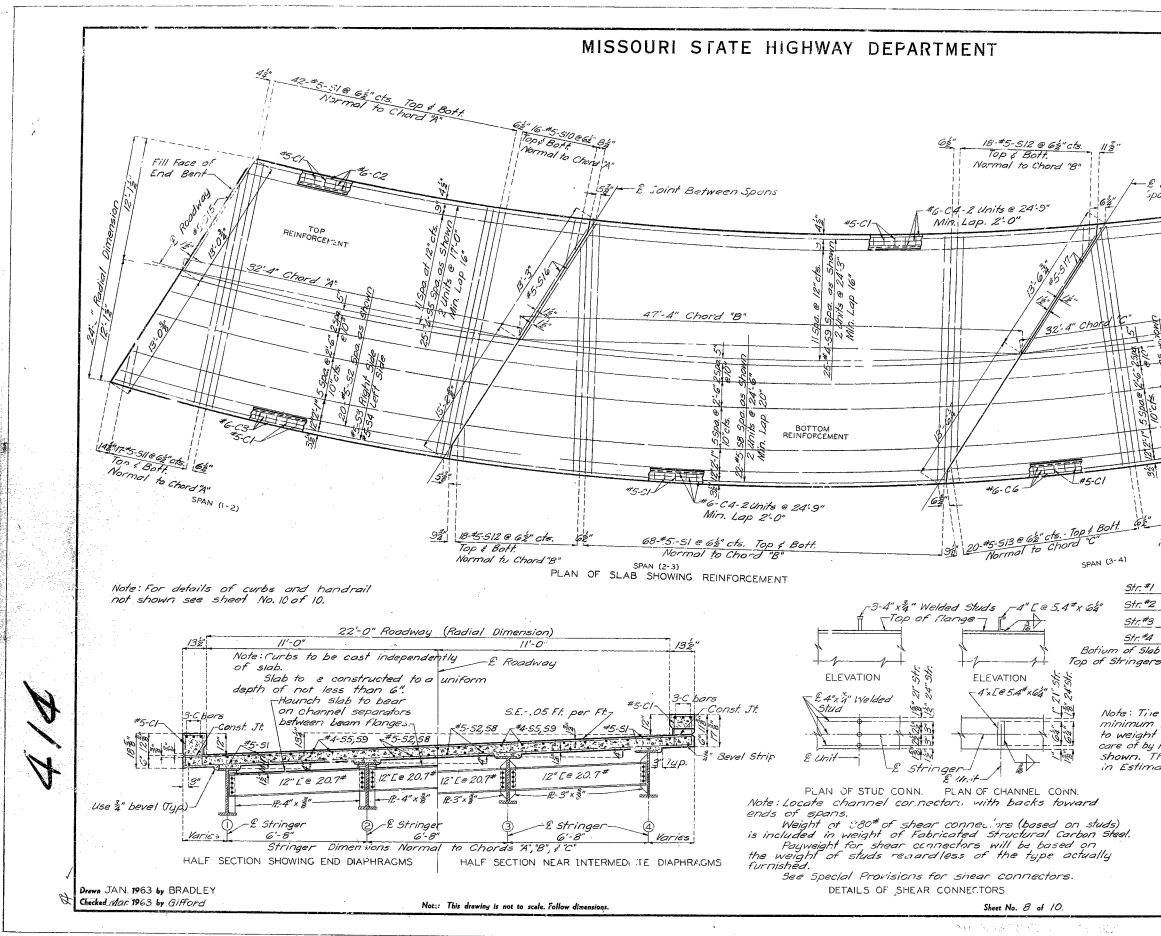




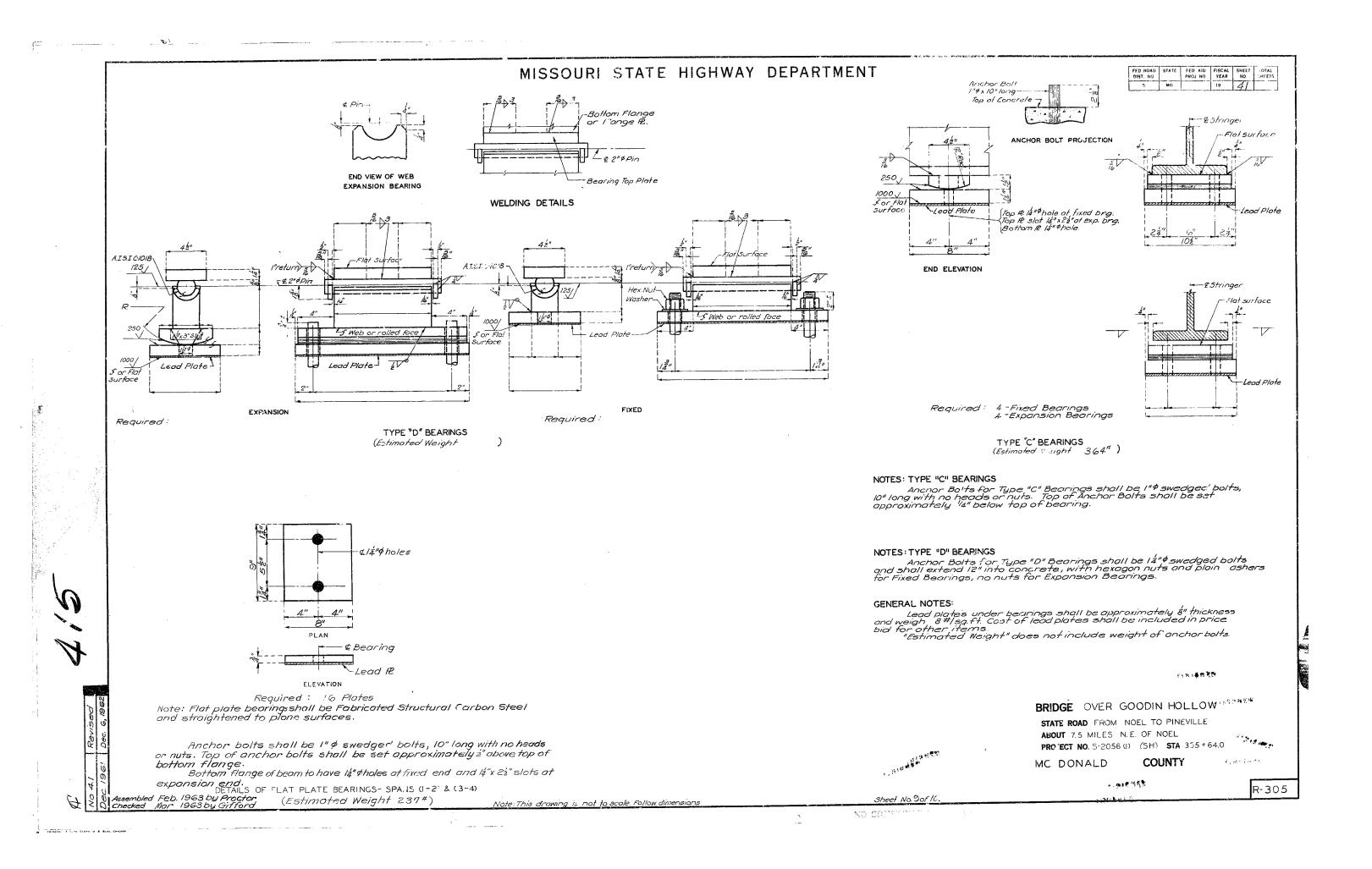
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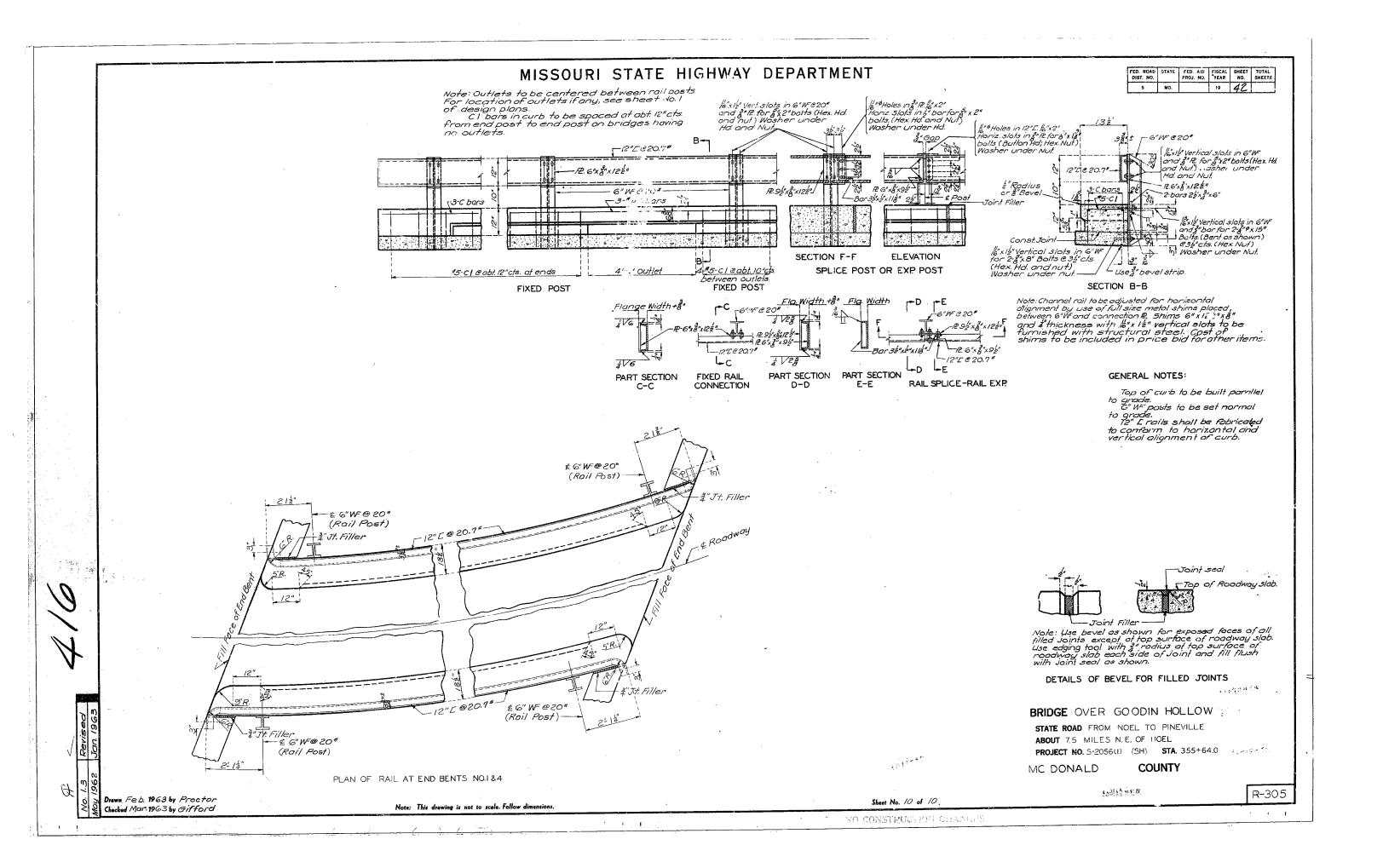
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BRIDGE OVER GOODIN HOLLOW	
STATE ROAD FROM NOEL TO PINEVILLE. ABOUT 7.5 MILES N.E. OF NOEL	
PROJECT NO. S-2056 (I) (SH) STA. 355+64.0 MC DONALD COUNTY	· · ·
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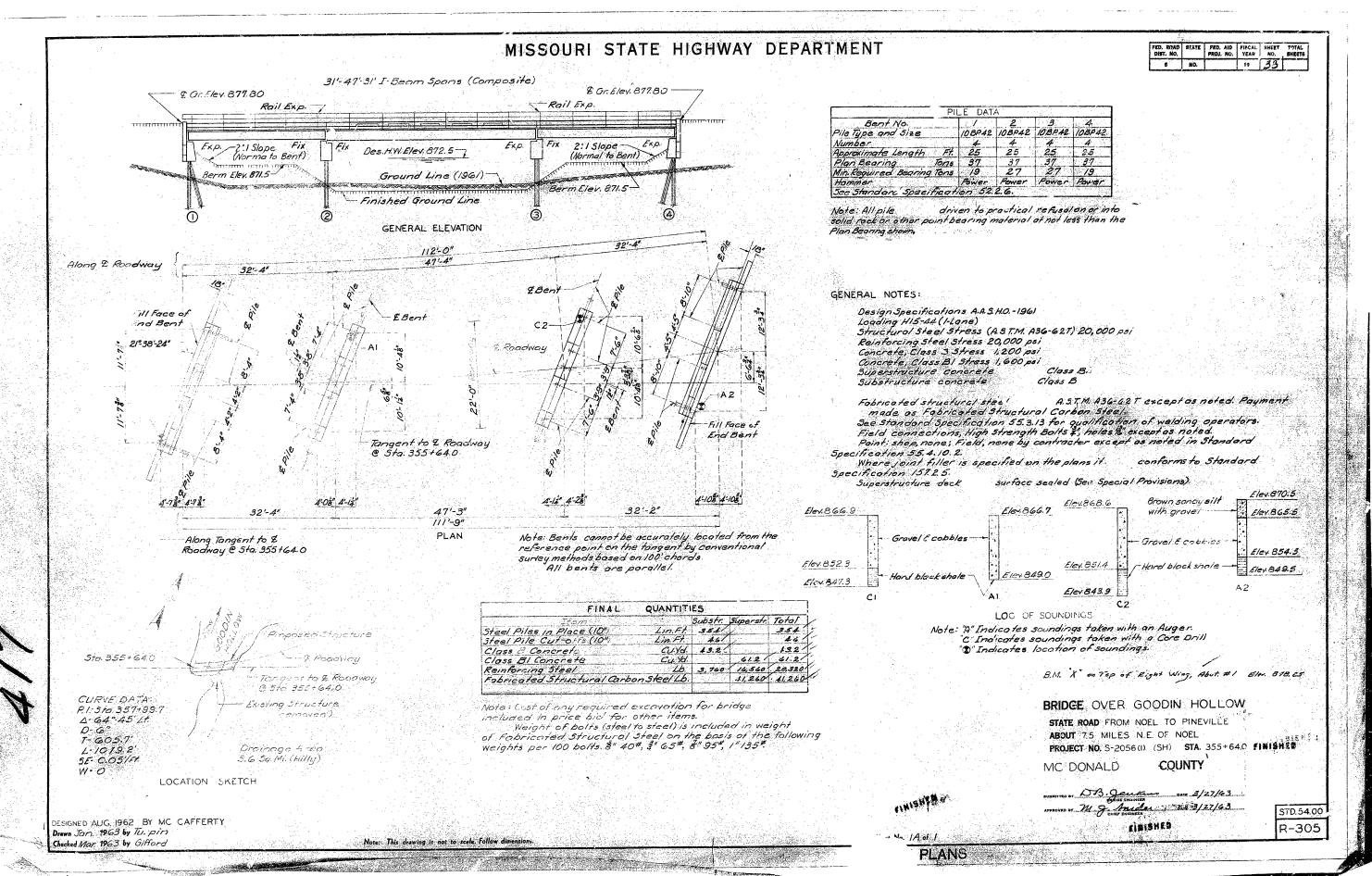


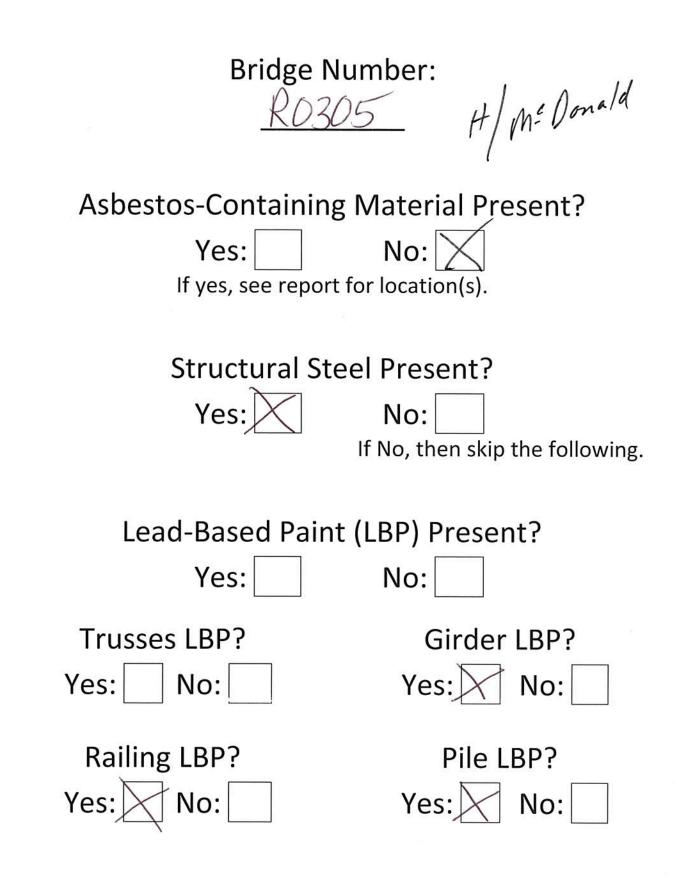


FED. ROAD STATE FED. AID FISCAL SHEET TOTAL DIST. NO. TROJ. NC. YEAR NO. SHEETS 5 MO. 16 40
62 21-#5-514 @ 62" cts. Top # Bott. 16" Normal to Chord "C"
#6-05
Joint Between #5.Cl
6 12, CT
al State
Fill Face of
End Bent
25-56 100 100 100 100 100 100 100 100 100 10
N 1010
00 #5-51 E 62" CT3.
Top # Pott. Normal to Chord "C"
no
21/1 and 21/2
2010 1010 1010 1010 1010 2010 2 11 2 11
5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
S=Ctr. to Ctr. S=Ctr. to Ctr. S=Ctr. to Ctr. of Ergs. of Brgs. of Brgs.
SPAN (1-2) SPAN (2-3) SPAN (3-4)
slab shall be built parallel to grade and to a thickness of 6". Dead load deflection (10% dus of structural steel) and superelevation shall be taken
haunching to the top of stringers by the dimensions have been been been been been been been be
ated Quantities. SLAB HAUNCHING DIAGRAM
BRIDGE OVER GOODIN HOLLOW
STATE ROAD FROM NOEL TO PINEVILLE
ABOUT 7.5 MILES N.E. OF NOEL PROJECT NO. S-2056(1) (SH) STA. 355+64.0
MC DONALD COUNTY
R-305









MEMORANDUM



Missouri Department of Transportation Construction and Materials Central Laboratory

то:	TMS $\bigcap $ \bigcap
FROM:	Diane Roegge AME HOLL Environmental Chemist
DATE:	August 25, 2015

SUBJECT: Materials Asbestos Inspection & Heavy Metal Paint Survey Route H Bridge R-0305 McDonald County

We are providing you with the results of the inspection on the above referenced bridge. The inspection report contains an asbestos and a heavy metals survey. The asbestos inspection included identifying suspect asbestos-containing material and NVLAP accredited testing to confirm the presence of asbestos.

Form T746 – This will show if samples were taken, where from, and, if the sample was found to contain asbestos, our estimated quantity of material present. Under the column "Friability Category" this is the meaning for the following:

- N-ACM No asbestos detected.
- I NF Asbestos is present. Material shall be handled carefully by a licensed abatement worker and kept wet if removing as part of a maintenance activity.
- II NF Asbestos is present. If removal is required for the maintenance activity, use an abatement contractor.

In accordance with Missouri Department of Natural Resources' Technical Bulletin "Managing Construction and Demolition Waste" dated January 31, 2003, a heavy metal paint survey has been performed on the above referenced bridge. This survey includes locating concrete which has been painted with something other than traffic paint or graffiti, and testing the painted surface(s) to determine if hazardous heavy metals are present. If the bridge is being removed completely, or the maintenance repairs include removing the painted concrete, then, non-hazardous painted concrete may be used as clean fill materials, if properly handled. You must contact the Central Office Design Division for proper handling of the reported painted surfaces.

Although our survey included observing and sampling all accessible areas, it is possible that potentially hidden asbestos-containing materials may exist within the structure. Should you have any questions regarding these reports, please contact me at (573) 526-4359.

db/fr/dr http://sp/sites/cm/chemicallab/environmental/shared documents/asbestos/districts/southwest (sw)/mt/r0305/dr1508255.docx Attachments

All Suspect ACM	Asbestos Survey Report	CONSTRUCTION AND MATERIALS	MISSOURI DEPARTMENT OF TRANSPORTATION	
				Page 1 of 1

August 25, 2015 Bridge R-0305	TYPE(S) OF STRUCTURE(S): Bridge		
Type of Materials	Location of Material	Friability Category	Field Measure
Asphalt Joint Material	2-Deck and 4-Curb Joints	N-ACM	
Bridge Paint is not a suspect ACM per MSDS's on file.			
N-ACM = Non-Asbestos Containing Material I NF = Category I Nonfriable NAFD = No Asbestos Fiber Detected * = Tested By Point Count Procedure	e II NF = Category II Nonfriable F = Friable		
	Test	S TYPE(S) OF STRUCTURE(S): of Materials Location of Ma 1 2-Deck and 4-Curb Joints suspect ACM per MSDS's	III Location of Material of Materials 2-Deck and 4-Curb Joints II 2-Deck and 4-Curb Joints suspect ACM per MSDS's

DISTRICT:

WS H N/A

CERTIFICATION #: CERTIFICATION #: SURVEYED BY:

Frank Reichart and Diane Roegge 7118110514MOIR11239, F.R.

7118110514MOIR7165, D.R.

Over Goodin Hollow

SITE ADDRESS:

McDonald

COUNTY:

MODOT JOB NO.:

ROUTE:

Rev.	For
. 08/2	m T7
012	47

ė	20
Į	10
	P
	-
	0
	-
	-

Aspestos Survey Keport Nonfriable Asbestos-Containing Materials (Abatement not required if not made friable during demolition.)	MISSOURI DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS
---	---

	McDonald	DISTRICT: SW	MODOT JOB NO.: N/A	H
	TYPE(S) OF STRUCTURE(S):	SITE ADDRESS:	CERTIFICATION #:	TESTED BY:

Bridge	Over Goodin Hollow	7118110514MOIR112	Frank Reichart
		39	

				 							Sample ID
											Type of Material
										None Located	Location of Material
4.5										INF	Friability Category
											Field Measure
											Asbestos Type
											Percen

All necessary work to handle this material is the contractor's responsibility.

in the second seco	ROUTE: MODOT JOB NO.: DISTRICT: COUNTY:	H N/A SW McDonald	TESTED BY: CERTIFICATION #: SITE ADDRESS: TYPE(S) OF STRUCTURE(S):	Frank Reichart 7118110514MOIR11239 Over Goodin Hollow Bridge			
	PARCEL NO.:	September 2, 2015 Bridge R-0305					
None Located F None Located IINF None Located IINF Inversion Inversion Inversin <td< th=""><th></th><th>Type of Material</th><th>Location of Material</th><th>Friability Category</th><th>Field Measure</th><th>Asbestos Type</th><th>Per</th></td<>		Type of Material	Location of Material	Friability Category	Field Measure	Asbestos Type	Per
		K •		F		-	
			None Located	II NF			
			0				
				The second s			

Page 1 of 1

MISSOURI DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS

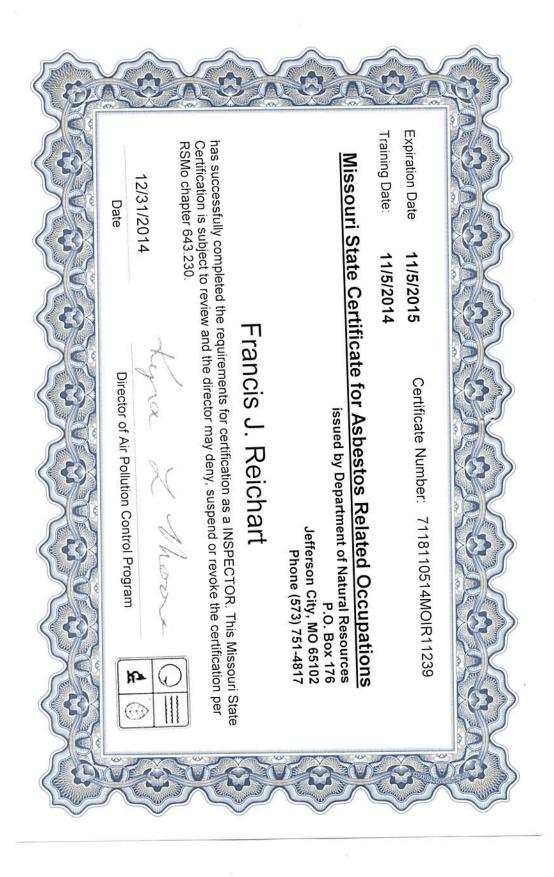
Asbestos Survey Report All materials requiring removal or special handling. Form T748 Rev. 08/2012

Form C760 Rev. 08/2012

Page 1 of 1

MISSOURI DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS Metals Survey Report of Painted Concrete, Block, Brick Surfaces for Clean Fill Purposes

All results are by X											Sample ID			DATE OF SURVEY:	SURVEYED BY:	DISTRICT:	ROUTE: MODOT JOB NO.:
All results are by XRF unless otherwise indicated: a = USEPA SW-846 Method 3050 b = USEPA SW-846 Method 7471										No samples taken. No painted surfaces located.	Color/Location of Material/Substrate					SW	
46 Method 346 Method											As				SITE ADDRESS: TYPE(S) OF STR	PARCEL NO .:	TESTED BY: DATE OF TESTS:
3050 7471											Cr				SITE ADDRESS: Over G TYPE(S) OF STRUCTURE(S): Bridge	NO.:	IY: TESTS:
											РЬ				URE(S): $\frac{O}{B_1}$	몓	N/A N/A
											Cd	(p	M		Over Goodin Hollow Bridge	Bridge R-0305	N/A N/A
		2									Se	(ppm)	Metals		follow		
											Ва						
										d	Hg						
										d	Αg						





M	EN	10	R/	AN	DI	JM
		_				

Missouri Department of Transportation Construction and Materials Central Laboratory



TO: TMS

CC:

FROM: Frank Reichart Environmental Chemist, Lead License #110506-300003364

DATE: August 25, 2015

SUBJECT: Materials Job No. N/A H/McDonald County Bridge R-0305

On August 25, 2015, a paint screening for regulated heavy metals was performed on the subject bridge. The following results were obtained:

	15MFJR190
Arsenic (As)	LOD*
Chromium (Cr)	LOD
Lead (Pb)	117,926 ppm**
	(11.8%)
Cadmium (Cd)	142 ppm
Selenium (Se)	LOD
Barium (Ba)	7,956 ppm
	(0.8%)
Mercury (Hg)	LOD
Silver (Ag)	LOD

*LOD = below the detection limit of the instrument

**ppm = parts per million

TMS paint data indicated a System A paint was under the System S paint, applied in 2006. The results verify the information found in TMS.

The existing paint system is lead-based paint (LBP). Therefore any painting project will be subject to DHSS notification and regulation.

Should any further screenings be required, please contact Todd Bennett, Chemical Laboratory Director, at (573) 751-1045. Should you have any questions regarding the screenings, feel free to call me at (573) 526-4359.

fr/dr

http://sharepoint/systemdelivery/cm/chemicallab/environmental/shared documents/asbestos/districts/southwest (sw)/mt/r0305/lbp r0305.docx

MODOT			Department of T	-	
	DICTDICT OW		Bridge Inspectio	-	DDIDCE DAY
COUNTY: MCDONALD			: STATBR	FED-ID: 8262	BRIDGE: R03
ROUTE: RTHE	***GENERAL STRUCTU # SPANS: 3			CODE: 92805 MCDONALD 92805	***BR
FEATURE: GOODIN HOLLOW	# SPANS: 3 LANES ON: 2			CODE: 92805 MCDONALD 92805 NGTH: 112 FT 0 IN	DATE: 10/10/
STATUS: P-POSTLOAD	LANES UNDER: 0			SPAN: 47 FT 3 IN	FREQUENCY: 12 TEAM LEADER: DAVE
LOG MILE: 6.749	COMPASS DIRECTION: W		APPROACH ROAI		INSPECTOR 2: LAUR
DETOUR: 19.00 MILES	DIRECTION OF TRAFFIC: 2-	-WAY TRAF	CURB TO	CURB: 22 FT 0 IN	INSPECTOR 3:
NHS: NO	FUNCTIONAL CLASS: R			OUT: 24 FT 4 IN	** When calculated interv
BUILT: 1963	NBI OWNER: M			AADT: 1356	G
REHAB:	NBI MAINTAINED: M			YEAR: 2024	
LOCATION: S 3 T 21 R 32 W LATITUDE: 36 34 57.80 (DMS)	MAINTENANCE DISTRICT: S MAINTENANCE COUNTY: M			RUCK: 10.9% AADT: 2373	
LONGITUDE: 94 23 13.94 (DMS)	SUB AREA: 7		FUTURE AADT		
	SUDAREA. /	001		I LAR. 2077	
FRACTURE CR	ITICAL INSPECTION INFOR	RMATION		*	**INDEPTH INSPECT
DATE: RESPON	SIBILITY:	CATEGORY:		DATE:	RESPONSIBILITY:
FREQUENCY: CALCULATED INT		NBI:		_	CULATED INTERVAL**:
	PECTOR 3:	METHOD:		TEAM LEADER:	INSPECTOR 3:
INSPECTOR 2: INSP	PECTOR 4:			INSPECTOR 2:	INSPECTOR 4:
** When calculated interval exceeds the frequency, a just	tification comment per BIRM is required	d.		** When calculated interval exceeds the	frequency, a justification comr
FRACTURE C	CRITICAL INSPECTION COM	MENTS			INDEPTH INSPEC
SPFCIAI	INSPECTION INFORMATIO)N		***	JNDERWATER INSPE
			CE DOST INCIDI		
DATE: 01/30/2023 RESPON FREQUENCY: 999 CALCULATED INT	SIBILITY: DISTRICT	CATEGORY: DAMA NBI: NO	GE POST INCIDE	DATE: 10/10/2024 FREQUENCY: 60 CAI	RESPONSIBILITY: LCULATED INTERVAL**:
	PECTOR 3:	METHOD: VISUA	L	TEAM LEADER:	INSPECTOR 3:
	PECTOR 4:			INSPECTOR 2: LAURA CAMPBE	
** When calculated interval exceeds the frequency, a justi		4		** When calculated interval exceeds the	
when calculated interval exceeds the frequency, a just	incation comment per brief is required	u.		when calculated interval exceeds the	
SPECIA	AL INSPECTION COMMENTS	1			UNDERWATER INSP.
(GEIGEM1, 02/02/2023)BRIDGE RAIL AND WING	WALL COLLISION DAMAGE				
OTHE	ER SPECIAL INSPECTIONS				OTHER UNDERWA
DATE FREQUENCY CATEGORY	ER SPECIAL INSPECTIONS NBI CALCULATED INTERVAL NO 115	A RESPONSIBILITY DISTRICT	METHOD WT TAPE	<u>DATE FREQUENCY CAT</u>	OTHER UNDERWA EGORY <u>NBI</u> CAL

April 22, 2025 7:28:56AM

)305

BRIDGE INSPECTION INFORMATION* RESPONSIBILITY: DISTRICT** 10/2024 CALCULATED INTERVAL**: 12 VE O'CONNOR ELEMENT: NO URA CAMPBELL **INSPECTOR 4:**

erval exceeds the frequency, a justification comment per BIRM is required. GENERAL INSPECTION COMMENTS

TION INFORMATION***

CATEGORY: NBI: **METHOD:**

mment per BIRM is required.

ECTION COMMENTS

PECTION INFORMATION***

Y: DISTRICT **: 12 **3:** DAVE O'CONNOR 4:

CATEGORY: DRY NBI: NO **METHOD:** VISUAL

comment per BIRM is required.

SPECTION COMMENTS

VATER INSPECTIONS ALCULATED INTERVAL RESPONSIBILITY

METHOD

MODOT		Ν	lissouri Departmen State Bridge Ins	-	n	
COUNTY: MCDON	ALD DISTRICT	: SW	CLASS: STATBR		ED-ID: 8262	BRIDGE: R03
			***STRU	CTURE POSTING**	**	
APPROVED CATEGORY: S-16	TRKS OVR 17 TNS 15MPH	ON BR EXCPT SNG	LE UNIT TRKS WT LIMIT	22 TNS&ALL OTHR TR	KS WT LIMIT 39 T	NS.
Ton 1: 17 COMMENTS:	Ton 2: 22		Ton 3: 39			
FIELD CATEGORY: S-16 Ton 1: 17 COMMENTS:	TRKS OVR 17 TNS 15MPH Ton 2: 22	ON BR EXCPT SNG	LE UNIT TRKS WT LIMIT Ton 3: 39	22 TNS&ALL OTHR TR PROBLEM:	KS	PROBLEM DIRECTIO
			GENERAL COMM	ENTS/MAJOR RAT	ED ITEMS	
GENERAL COMMENTS: (BOWDEJ1, 07/3)	0/2008)(32'-47'-32') SMP COMP W	F GDR SPANS				
[ITEM 58] DECK: 4 RATING : 1		COMMENT	S: (GEIGEM1, 10/13/2021)	50% - 55% SATURATIC	ON SPANS 1 & 2	
[ITEM 59] SUPER: 3 RATING : 1	-SERIOUS CONDITION 0/30/2024	COMMENT	S: (NUNNT, 10/30/2024) <i>A</i>	ADVANCED BOTTOM F	LANGE SECTION LO	DSS @ INT. BT. BEARINGS.
[ITEM 60] SUB: 4 RATING : 1	-POOR CONDITION 2/04/2020	COMMENT	S: (NUNNT, 12/04/2020)N	MODERATE - ADVANCE	ED H-PILE SECTION	LOSS AT FEW LOCATIONS.
[ITEM 61] BANK/CHANNEL: 7 RATING: 1		COMMENT	'S: (FODGEC1, 12/05/2018)	MINOR DRIFT @ BT. 3	3	
[ITEM 113] SCOUR: 8 RATING : 0 EVALUATION TYPE :	-STABLE FOR CALCULATED 5/18/2001	COMMENT	TS: (CAMPBL1, 10/26/2023))SMALL CRITTER HOI	LES AT WEST ABUT	MENT.
[ITEM 71] WATERWAY ADEQUACY: D RATING: 0		COMMENT	`8:			
[ITEM 72] APPRRDWY ALIGNMENT: 8 RATING: 0		COMMENT	`S:			
		RAILING	AND APPROACH PA	WEMENT COMPO	NENTS AND RAT	TINGS
[ITEM 36A] BRIDGE RAILING RATIN	NG: DOESNT MEET CURRNT STN	D-0	RATING: 12/21/2004	COMMENTS:		
<u>MATERIAL</u> REINFORCED CONCRETE	CONSTRUCTION CURB	<u>DIRECTION</u> BOTH	<u>COMMENTS</u>			
STEEL	CHANNEL-12"	BOTH		~~~~~~		
<u>CONDITION</u> COLLISION DAM	AGE RANE		LOCATION 2	<u>SEVERITY</u> MODERATE	<u>COMMENT</u> (GEIGEM1_02/()2/2023)NORTHEAST QUAD
[ITEM 36B] TRANSITION RAILING RATIN			RATING : 05/18/2001	COMMENTS:		la l
[ITEM 36C] APPROACH RAILING RATIN	NG: NOT PROVIDED-0		RATING: 05/18/2001	COMMENTS:		
ITEM 36DJ RAIL END TREATMENT RATIN	NG: NOT PROVIDED-0		RATING: 05/18/2001	COMMENTS:		
Design_No = r0305				Page 2		

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Sunshine Act before releasing any of the information contained herein.	

MoDOT				Missouri Department State Bridge Insp	-				
	UNTY: MCDONALD	DISTRICT:	SW	CLASS: STATBR		FED-II	D: 8262	BRIE	DGE: R03
APPROA	ACH PAVEMENT: *Overall con	ndition assigned for each a	approach pavemen	et component is shown below.					
<u>MATERIAI</u> ASPHALT		T <u>RUCTION</u> NOUS MAT	<u>DIRECTION</u> BOTH	<u>CONDITION*</u> GOOD	<u>COMMENTS</u>				
		DRAI	NAGE, EXPA	NSION DEVICES, BANK	/SLOPE, AN	D DECK PI	ROTECTIVE C	OMPONEN'	TS
ECK PROTECTIVE COMF SERIES TYPE-# MAIN SERIES-1	P <u>ONENTS:</u> <u>COMPONENT</u> WEARING SURFACE		TERIAL PHALT	<u>Construction</u> Cinder Seal	<u> </u>	HICKNESS .4 IN	<u>YEAR APPLIED</u> 2018	<u>MANUFAC</u>	<u>TURE</u>
<u>COMMENT:</u>									
	<u>NDITION</u> SPALLS	<u>LOCATION 1</u> THROUGHOUT		LOCATION 2	<u>SEVERITY</u> MINOR	<u>C(</u>	<u>OMMENT</u>		
COMMENT:	DECK PROTECTION	NOTAP	PLICABLE	NONE					
	MEMBRANE	NOTAP	PLICABLE	NONE					
<u>COMMENT:</u>									
RAINAGE COMPONENTS	<u>S:</u>								
	<u>COMPONENT</u> DRAINAGE		<u>TERIAL</u> ED CONCRETE	<u>CONSTRUCTION</u> CURB OUTLET	<u></u>	<u>DIRECTION</u>	<u>COMMENTS</u>	<u>.</u>	
XPANSION DEVICE COM	PONENTS:								
<u>SUB UNIT-#</u> SU BENT-2	T <u>B LABEL</u> <u>COMPO</u> CLOSED EXPA		<u>MATER</u> FEL		NSTRUCTION LLED JOINT		<u>GAP</u> <u>YEA</u>	AR APPLIED	<u>MANUFA</u>
COMMENT:	CLOSED EXPA	NSION JOINT	ΓEL	ΛI ΓΙ	LLED JOINT				
BENT-3	CLOSED EXPA	NSION JOINT	FEL	T FI	LLED JOINT				
<u>COMMENT:</u>									
ANK/SLOPE PROTECTIO	N COMPONENTS:								
	<u>COMPONENT</u>	MAT	<u>TERIAL</u>	<u>CONSTRUCTION</u>	Ţ	<u>DIRECTION</u>	<u>COMMENTS</u>	<u> </u>	
				DECK	COMPONE	NTS			
<u>SPAN TYPE-#</u> MAIN SPANS-1	<u>COMPONENT</u> DECK		<u>TERIAL</u> ED CONCRETE	<u>CONSTRUCTION</u> CAST-IN-PLACE	<u>CO</u>	<u>MMENTS</u>			
<u>CON</u>	<u>DITION</u>	LOCATION 1		LOCATION 2	<u>SEVERITY</u>	MEASURE	EMENT <u>COMM</u>	<u>ENT</u>	
	RESCENCE TCHES	RANDOM THROUGHOUT			LIGHT MODERATE				
	R EXPOSED	BOTTOM			FEW				
	URATION	THROUGHOUT		· · · · · · · · · · · · · · · · · · ·	MODERATE	50 %	ý 0		
	EALING PALLS	THROUGHOUT THROUGHOUT			LIGHT MINOR	3 %			
	ERSE CRACKS	THROUGHOUT			MANY	2 /0			
Design_No = r0305					Page 3				
This report	t contains information that is protected fro	m disclosure by federal law, 23	USC Section 409 and	the Missouri Open Records Law (Sunshine		21 RSMo. Please 1	review MoDOT's policy a	nd procedure manu	al on the Sunsh

This report contains information that is protected from disclosure by federal law, 23 USC Section 409 and the Missouri Open Records Law (Sunshine Act), Section 610.021 RSMo. Please review MoDOT's policy and procedure manual on the Sunshine Act before releasing any of the information contained herein.

0305

OVERALL CONDITION FAIR

FACTURE

OVERALL CONDITION

			-	rtment of Transpor ge Inspection Repo		
COUNTY: M	ICDONALD	DISTRICT: SW	CLASS: STA	TBR	FED-ID: 8262	BRIDGE: R03
<i>MAIN SPANS-2</i> <u>CONDITION</u> EFFLORESCENCI FULL DEPTH PATCH PATCHES SATURATION SCALING		<i>REINFORCED C</i> <u>LOCATION 1</u> RANDOM RANDOM THROUGHOUT THROUGHOUT THROUGHOUT	CONCRETE CAST-L LOCATION 2	<i>N-PLACE</i> <u>SEVERITY</u> LIGHT MODERATE MODERATE MODERATE LIGHT	<u>MEASUREMENT</u> 2 % 55 %	<u>COMMENT</u>
SPALLS TRANSVERSE CRAC		RANDOM THROUGHOUT		MINOR MANY	2 %	
MAIN SPANS-3 <u>CONDITION</u> MAP CRACKS PATCHES SATURATION SCALING SPALLS TRANSVERSE CRAC	DECK	REINFORCED O LOCATION 1 THROUGHOUT THROUGHOUT THROUGHOUT RANDOM THROUGHOUT	CONCRETE CAST-L LOCATION 2	<i>N-PLACE</i> <u>SEVERITY</u> FINE MODERATE MODERATE LIGHT SMALL MANY	<u>MEASUREMENT</u> 35 % 1 %	<u>COMMENT</u>
			\$110FD	STRUCTURE COMP	ONFNTS	
SERIES TYPE-#	SPAN TYPE	MATER		<u>RUCTION</u>	LABEL	<u>COMMENTS</u>
MAIN SERIES-1 <u>SPAN</u> <u>G</u> MAIN SPANS-1 <u>CONDITION</u> OTHER	<i>SIMPLE SPAN</i> C <u>OMPOSITE INDIC</u> COMPOSITE	STEE. <u>ATOR LENGTH</u> 32 FT 4 IN <u>LOCATION 1</u> RANDOM	L WIDE FLAN <u>WEATHERING STEEL</u> COMM NO LOCATION 2	IGE GIRDERS I <u>ENTS</u> <u>SEVERITY</u> NOT APPLICABLE	<u>MEASUREMENT</u>	<u>COMMENT</u> (NUNNT, 10/30/2024)BT. 2 - G1 HOLE SOUTH FLANGE. G2 - 85% SECTION LOSS BOTTO G3 - 95% SECTION LOSS BOTTO HOLE SOUTH FLANGE. 25% SE
PACK RUST RUSTING SECTION LOSS SECTION LOSS		OTTOM FLANGE AT JOINTS OTTOM FLANGE GDR1		HEAVY HEAVY ADVANCED MINOR		G4 - 75% SECTION LOSS BOTTO (NUNNT, 12/04/2020)AT BT. 2 A (NUNNT, 12/04/2020)TOP & BO (NUNNT, 12/04/2020)AT BT. 2 A (NUNNT, 11/18/2022)WEB AT B
MAIN SPANS-2 <u>CONDITION</u> OTHER	COMPOSITE	47 FT 3 IN <u>LOCATION 1</u> RANDOM	NO <u>LOCATION 2</u>	<u>SEVERITY</u> NOT APPLICABLE	<u>MEASUREMENT</u>	<u>COMMENT</u> (NUNNT, 10/30/2024)BT. 2 - G1 MINOR.
PACK RUST		AT JOINTS		MODERATE		BT. 3 - G1 - 50% SECTION LOSS G2 - MINOR 5% SECTION LOSS G3 - 25% SECTION LOSS BOTTO G4 - MINOR 10% SECTION LOSS
RUSTING RUSTING	E	AT JOINTS OTTOM FLANGE OTTOM FLANGE		HEAVY HEAVY MINOR		(FODGEC1, 12/05/2018)@ BT. 2 (FODGEC1, 12/05/2018)@BT. 2

Page 4

This report contains information that is protected from disclosure by federal law, 23 USC Section 409 and the Missouri Open Records Law (Sunshine Act), Section 610.021 RSMo. Please review MoDOT's policy and procedure manual on the Sunshine Act before releasing any of the information contained herein.

0305

G1 - 85% SECTION LOSS BOTTOM FLANGE AT BEARING - 2.5" X 2

TOM FLANGE AT BEARING - 2" X 1" HOLE NORTH FLANGE. TOM FLANGE - MISSING 3" SECTION NORTH FLANGE, 1" X 1.5" SECTION LOSS BOTTOM WEB AT BEARING. TOM FLANGE AT BEARING. 2 AND MODERATE AT WEST ABUTMENT. 30TTOM FLANGES. 2 AND MINOR AT WEST ABUTMENT. 5 BT. 2.

G1 - 25% SECTION LOSS BOTTOM FLANGE AT BEARING. G2-G4

SS BOTTOM FLANGE AT BEARING. SS BOTTOM FLANGE AT BEARIG. TOM FLANGE AT BEARING. SS BOTTOM FLANGE AT BEARING.

. 2 AND 3 2 AND 3

MODOT			Missouri Department State Bridge Insj	-		
	COUNTY: MCDONALD	DISTRICT: SW	CLASS: STATBR	FED-II	D: 8262	BRIDGE: R03
MAIN	SPANS-3 COMPOS <u>Condition</u> Other	SITE 32 FT 2 IN <u>LOCATION 1</u> RANDOM	NO <u>LOCATION 2</u> NC	SEVERITY MEASURA DT APPLICABLE	(NUNNT, HOLE SC	, 10/30/2024)BT. 3 - G1 DUTH FLANGE. SECTION LOSS BOTTO
	PACK RUST RUSTING RUSTING SECTION LOSS	BOTTOM FLANGE AT JOINTS BOTTOM FLANGE BOTTOM FLANGE		HEAVY HEAVY HEAVY ADVANCED	G3 - 90% (NUNNT, (SIMPSB, (NUNNT, (NUNNT,	SECTION LOSS BOTTO , 12/04/2020)@ BT. 3. , 02/11/2005)TOP FLAN , 12/04/2020)@ BT. 3. , 12/04/2020)50% LOSS I1, 10/13/2021)WOOD I
			***SUBSTRUC	FURE COMPONENTS*	**	
SUBSTRUCTU		LENGTH MATERIAL	CONSTRUCTION	LABEL COMMENT		
ABUTMENT <u>ASS</u>	1 LA-22 DEGREES . <u>CONDITION</u> OCIATED COMPONENT	28 FT 2 IN REINFORCED CONCRETE <u>LOCATION 1</u> <u>MATERIAL</u>	NON-INTEGRAL <u>LOCATION 2</u> <u>CONSTRUCTION</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
BEA	AM CAP <u>CONDITION</u> DELAMINATION	REINFORCED CONCRETE <u>LOCATION 1</u> RANDOM	CAST-IN-PLACE <u>LOCATION 2</u>	<u>SEVERITY</u> SMALL	<u>MEASUREMENT</u>	<u>COMMENT</u>
	HORIZONTAL CRACKS OTHER RUST STAINS VERTICAL CRACKS	S TOP GROUND LINE RANDOM RANDOM		LARGE NOT APPLICABLE MINOR FINE		(CAMPBL1, 10/26/202
PILI		STEEL LOCATION 1	H-SHAPE <u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
STR	AIGHT WINGS CONDITION	REINFORCED CONCRETE <u>LOCATION 1</u> TOP	CAST-IN-PLACE <u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
BAC	PATCHES CKWALL <u>CONDITION</u>	REINFORCED CONCRETE <u>LOCATION 1</u>	CAST-IN-PLACE LOCATION 2	LARGE <u>Severity</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
EXP	SHOVING ANSION BEARING	BACKWALL STEEL	SLIDING FLAT PLA		MEAGUDEMENT	COMMENT
	<u>CONDITION</u> PACK RUST RUSTING	<u>LOCATION 1</u> THROUGHOUT THROUGHOUT	<u>LOCATION 2</u>	<u>SEVERITY</u> MODERATE HEAVY	<u>MEASUREMENT</u>	<u>COMMENT</u>
BENT-2	<u>CONDITION</u>	25 FT 1 IN REINFORCED CONCRETE LOCATION 1	PILE CAP <u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
	<u>OCIATED COMPONENT</u> M CAP	<u>MATERIAL</u> REINFORCED CONCRETE	<u>CONSTRUCTION</u> CAST-IN-PLACE	SEVEDITV	MEASUDEMENT	COMMENT
PILI	<u>CONDITION</u> DELAMINATION HORIZONTAL CRACKS REBAR EXPOSED RUST STAINS SATURATION SPALLS VERTICAL CRACKS	LOCATION 1 BOTTOM S BOTTOM BOTTOM RANDOM THROUGHOUT BOTTOM RANDOM STEEL	<u>LOCATION 2</u> H-SHAPE	<u>SEVERITY</u> MODERATE MEDIUM FEW MODERATE MINOR MODERATE MEDIUM	<u>MEASUREMENT</u>	<u>COMMENT</u>
FILI	NG <u>CONDITION</u>	STEEL <u>LOCATION 1</u>	H-SHAPE <u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>

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G1 - 85% SECTION LOSS BOTTOM FLANGE AT BEARING - 1" X 1"

TOM FLANGE AT BEARING - MISSING 2" SECTION NORTH

TOM FLANGE AT BEARING - 1" X 1.5" HOLE SOUTH FLANGE.

ANGE

SS GDR. 1, 2, 3, @ BT. 3, MODERATE GDR. 4 @ BT. 3. D BLOCKING INSTALLED IN 2020

2023)--FEW SMALL CRITTER HOLES UNDER ABUTMENT

			Missouri Department of T	-		
			State Bridge Inspection	-		
	UNTY: MCDONALD	DISTRICT: SW	CLASS: STATBR	FED-II): 8262	BRIDGE: R03
	PACK RUST	RANDOM		HEAVY		
	RUSTING	RANDOM		HEAVY		
	SECTION LOSS	TOP		ADVANCED		(NUNNT, 11/18/2022)
						2", H-PILE 2 - 15% LC
FIXED BI	SECTION LOSS	WATERLINE STEEL	FLAT PLATE	ADVANCED		(NUNNT, 11/18/2022)
FIXED BI	CONDITION	STEEL LOCATION 1	LAI PLAIE LOCATION 2	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
	PACK RUST	THROUGHOUT	LOCAHON 2	HEAVY	MEASUREMENT	COMMENT
	RUSTING	THROUGHOUT		HEAVY		
	Restind	ПКОССПОСТ		IILAV I		
BENT-3	LA-22 DEGREES 25 I	FT 7 IN REINFORCED CONCRETE	PILE CAP			
DENI-J	CONDITION	LOCATION 1	LOCATION 2	SEVERITY	<u>MEASUREMENT</u>	COMMENT
ASSOCIA	TED COMPONENT	MATERIAL	CONSTRUCTION	<u>SLI LIUII</u>		COMMENT
BEAM CA		REINFORCED CONCRETE	CAST-IN-PLACE			
DEAM CA	<u>CONDITION</u>	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
	DELAMINATION	RANDOM	LOCATION 2	MINOR	MLASUKEMENT	COMMENT
	HORIZONTAL CRACKS	BOTTOM		MEDIUM		
	RUST STAINS	RANDOM		MINOR		
	SPALLS	ENDS		SMALL		(FODGEC1, 12/05/201
PILING	STALLS	STEEL	H-SHAPE	SWALL		(10000001, 12/05/201
TILING	CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
	COLLISION DAMAGE	THROUGHOUT		MINOR	ML/ISCREMENT	(NUNNT, 12/04/2020)
	DRIFT	WATERLINE		SMALL AMOUNT		(10010101, 12/04/2020)
	PACK RUST	GROUND LINE		MODERATE		
	PACK RUST	ТОР		MODERATE		
	RUSTING	GROUND LINE		HEAVY		
	RUSTING	ТОР		HEAVY		
	SECTION LOSS	GROUND LINE		ADVANCED		(NUNNT, 10/30/2024)
	22011011 2000					H-PILE 2 - 60% LOSS
	SECTION LOSS	ТОР		MODERATE		(NUNNT, 11/18/2022)
EXPANSI	ON BEARING	STEEL	SLIDING FLAT PLATE			(, , , ,
	CONDITION	LOCATION 1	LOCATION 2	<u>SEVERITY</u>	MEASUREMENT	COMMENT
FIXED BI		STEEL	FLAT PLATE			
	CONDITION	LOCATION 1	LOCATION 2	<u>SEVERITY</u>	MEASUREMENT	COMMENT
	PACK RUST	THROUGHOUT		HEAVY		<u> </u>
	RUSTING	THROUGHOUT		HEAVY		
ABUTMENT-4	LA-22 DEGREES 29 I	FT 7 IN REINFORCED CONCRETE	NON-INTEGRAL			
	CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
ASSOCIA	TED COMPONENT	MATERIAL	CONSTRUCTION	<u>52, BRIT</u>		COMMENT
BEAM CA		REINFORCED CONCRETE	CAST-IN-PLACE			
DLAW CI	<u>CONDITION</u>	LOCATION 1	LOCATION 2	<u>SEVERITY</u>	MEASUREMENT	COMMENT
	HORIZONTAL CRACKS	TOP		LARGE	MENDUREMENT	COMMENT
	LEACHING	RANDOM		MINOR		
PILING	LEACHING	STEEL	H-SHAPE	WIINOK		
TILINU	CONDITION	LOCATION 1	LOCATION 2	<u>SEVERITY</u>	MEASUREMENT	COMMENT
STRAIGH		REINFORCED CONCRETE	CAST-IN-PLACE	<u>SETEMIT</u>	MEAN ONLINE I	<u>Southanna</u>
SINAIUE	<i>CONDITION</i>	LOCATION 1	LOCATION 2	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
	COLLISION DAMAGE	RANDOM	LUCATION Z	<u>SEVERITT</u> MODERATE	MEADURENIENI	
BACKWA		RANDOM REINFORCED CONCRETE	CAST-IN-PLACE	MODEKALE		(GEIGEM1, 02/02/202
BACKWA				SEI/EDIT V	MEACHDEMENT	COMMENT
	<u>CONDITION</u>	<u>LOCATION 1</u>	LOCATION 2	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
TADATO	ON BEARING	STEEL	SLIDING FLAT PLATE			

Design_No = r0305

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22)--AT H-PILE / BEAM CAP INTERFACE, H-PILE 1 60% LOSS TOP LOSS TOP 1". 22)--H-PILE 1 60% LOSS TIPS OF FLANGE

2018)--HIGH STEEL

20)--H-PILE 1 & 3 MINOR BEND IN FLANGE

24)--H-PILE 1 - 20% SECTION LOSS FLANGE AND WEB. DSS WEST FLANGE. 22)--H-PILE 3 - 30% LOSS, TOP 1".

2023)--NORTHEAST QUAD

CE TYPE** VALUE	rtical clearances for permitting purposes are taken at <u>DIRECTION</u> <u>DATE</u> rtical clearances for permitting purposes are taken at	<u>COMMENT</u>	FE SEVERITY MINOR HEAVY ES CLEARANCE INI ured clearance.		
CONDITION PACK RUST RUSTING **NOTE: Ver CE TYPE** VALUE EE **NOTE: Ver CUTE # LANE	LOCATION 1 RANDOM THROUGHOUT * rtical clearances for permitting purposes are taken at DIRECTION DATE rtical clearances for permitting purposes are taken at DIRECTION DATE rtical clearances for permitting purposes are taken at DIRECTION OF TRAFFIC	<u>LOCATION 2</u> ***OVER/UNDER ROUT s 2 inches less than the actual field measur <u>COMMENT</u> s 2 inches less than the actual field measur <u>RIGHT LATERAL CLEAR</u>	<u>SEVERITY</u> MINOR HEAVY ES CLEARANCE INI Ired clearance.	<u>Y MEASUREMENT</u> FORMATION***	<u>COMMENT</u>
PACK RUST RUSTING **NOTE: Ver CE TYPE** VALUE <u>CE TYPE** VALUE TE **NOTE: Ver UNTE: Ver UNTE </u>	RANDOM THROUGHOUT * rtical clearances for permitting purposes are taken at DIRECTION DATE rtical clearances for permitting purposes are taken at ES DIRECTION OF TRAFFIC	s 2 inches less than the actual field measur <u>COMMENT</u> s 2 inches less than the actual field measur <u>RIGHT LATERAL CLEAR</u>	MINOR HEAVY ES CLEARANCE INI ared clearance.	FORMATION***	
**NOTE: Ver <u>VALUE</u> <u>VALUE</u> <u>VALUE</u> <u>VALUE</u> <u>VALUE</u> <u>VALUE</u> <u>VALUE</u> <u>VALUE</u>	rtical clearances for permitting purposes are taken at <u>DIRECTION</u> <u>DATE</u> rtical clearances for permitting purposes are taken at ES	s 2 inches less than the actual field measur <u>COMMENT</u> s 2 inches less than the actual field measur <u>RIGHT LATERAL CLEAR</u>	ES CLEARANCE INI rred clearance. rred clearance.		UR-I
CE TYPE** VALUE <u> GE</u> **NOTE: Ver <u> COUTE</u> <u># LANE</u>	rtical clearances for permitting purposes are taken at <u>DIRECTION</u> <u>DATE</u> rtical clearances for permitting purposes are taken at <u>DIRECTION OF TRAFFIC</u>	s 2 inches less than the actual field measur <u>COMMENT</u> s 2 inches less than the actual field measur <u>RIGHT LATERAL CLEAR</u>	ired clearance. ired clearance.		<u>UR-I</u>
CE TYPE** VALUE <u> GE</u> **NOTE: Ver <u> COUTE</u> <u># LANE</u>	DIRECTION DATE rtical clearances for permitting purposes are taken at ES DIRECTION OF TRAFFIC	<u>COMMENT</u> s 2 inches less than the actual field measur <u>RIGHT LATERAL CLEAR</u>	ired clearance.	TERAL CLEARANCE	<u>UR-I</u>
OUTE # LANE	DIRECTION OF TRAFFIC	RIGHT LATERAL CLEAR		TERAL CLEARANCE	<u>UR-D</u>
				TERAL CLEARAILE	
<u>VALUE</u>	<u>DIRECTION</u> <u>DATE</u>	COMMENT			
		STRUCTURE	E PAINT INFORMAT	[ION	
AIR F	RUST AMOUNT : $7 = .2\%$ OF SURFA	CE RUSTED ST	TEEL TONS: 21		
<u>GINAL PAINT</u>	CONT	RACT REPAINT			DEPARTMEN
: A SYSTEM			PAIN		
			PAINT		EAD PAINT
: 1964	PAINT YEAR	:		NT YEAR: 2006	
: 4	MILS				
ENTS:		***REQUES	STED WORK ITEMS)***	
LOCATION	ITEM	CATEGORY PRI	IORITY DATE	WORK ITEM COMMENT	ľ
SUPER-GIRDERS	REPAIR GIRDER ENDS	SUPERSTRUCTURE		(NUNNT, 12/04/2020)BC	
SLOPE		SLOPE		(GEIGEM1, 10/13/2021)3	50 SF
		REPLACEMENT	04/10/2024	(GEIGEM1, 04/11/2022)2	2026 - WT LIMIT, 4/4/4
		***UTILIT	FYATTACHMENTS*	***	
C	GINAL PAINT : A SYSTEM : RED LEAD : ALUMINUM : 1964 : 4 ENTS: LOCATION SUPER-GIRDERS BENT ROADWAY SURFACE	GINAL PAINTCONT: A SYSTEMPAINT TYPE: RED LEADNAME: ALUMINUMPAINT COLOR: 1964PAINT YEAR: 4MILSENTS:LOCATIONITEMSUPER-GIRDERSREPAIR GIRDER ENDSBENTREPAIR STEEL H-PILEROADWAY SURFACEREPAIR CONCRETE < 50 SF	GINAL PAINTCONTRACT REPAINT: A SYSTEMPAINT TYPE : NAME : ALUMINUM: ALUMINUMPAINT COLOR : PAINT YEAR : : 4: 4PAINT YEAR : MILS :***REQUEX***REQUEXENTS:LOCATIONITEM REPAIR GIRDER ENDS REPAIR STEEL H-PILE REPAIR STEEL H-PILE SUPERSTRUCTURE REPAIR STEEL H-PILE SUPERTUCTURE REPAIR STEEL H-PILE SUPERTUCTURE REPAIR CONCRETE < 50 SF DECK SLOPE CUT BRUSH & TREES	GINAL PAINTCONTRACT REPAINT: A SYSTEMPAINT TYPE :: RED LEADNAME :: ALUMINUMPAINT COLOR :: 1964PAINT YEAR :: 4MILS :***REQUESTED WORK ITEMSSUPER-GIRDERSSUPER-GIRDERSREPAIR GIRDER ENDSSUPER-GIRDERSREPAIR GIRDER ENDSSUPER-GIRDERSREPAIR STEEL H-PILESUPER-GIRDERSREPAIR STEEL H-PILESUPER SUPERSTRUCTURE210/08/2020SLOPECUT BRUSH & TREESSLOPE310/02/2022REPLACEMENT0/02/2022REPLACEMENT0/02/2022REPLACEMENT0/02/2022REPLACEMENT0/02/2022	CINAL PAINTCONTRACT REPAINT:: A SYSTEMPAINT TYPE ::: RED LEADNAME ::: ALUMINUMPAINT COLOR ::: 1964PAINT YEAR ::: 1964PAINT YEAR ::: 4MILS :***REQUESTED WORK ITEMS***ENTS:LOCATIONITEMCATEGORYPRIORITYDATEWORK ITEM COMMENTSUPER-GIRDERSREPAIR GIRDER ENDSSUPERSTRUCTURE210/16/2014(NUNNT, 12/04/2020)-BCBENTREPAIR STEEL H-PILESUPERSTRUCTURE210/08/2020(GEIGEMI, 10/13/2021)

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-ID

NT REPAINT

MANUFACTURE :WATSON SURFACE PREP :HAND CLEANED

BT. 3. , BT. 3 H-PILE 2 AND BT.2 H-PILE 1 @ GROUNDLINE.

nshine Act before releasing any of the information contained herein.

MODOT	Missouri Department of Transport State Bridge Inspection Repor				
COUNTY: MC	DONALD DISTRICT: SW	CLASS: STAT	BR	FED-ID: 8262	BRIDGE: R030
UTILITY	OWNER METHOD	MEASUREMENT TYPE	VALUE N	UMBER UTILITY AT	TACHMENT COMMENT
		*** DD OCD	AM NOTES INFORM	ATION ***	
<u>YEAR PROJECT # MONT</u>	<u>'H LET YEAR LET ITEMS</u>		AM NOTES INFORM	<u>COMMENT</u>	
	PUTER GENERATED RATINGS AND I				***ADVANCEI
NOTE: The items listed in this section are <u>Rated Item</u>	e updated whenever computer edits are ran on a struct <u>Rating</u>	ture after the inspection updates hav Rating Date	e been entered in to TMS.	SIGN # 1	SIGN TYPE DELINEATOR
[Item 67] Structure Evaluation Rating: [Item 68] Deck Geometry Rating:	2-BASICALLY INTOLRBLE REQ 3-BASICALLY INTOL CORRECT	4/2/2003 12/8/2020			
[Item 69] Underclearance: Sufficiency Rating:	N-NOT APPLICABLE 4.0%	5/18/2001 12/8/2020 4/2/2003			
Deficiency: Funding Eligibility:	STRUCTURAL	4/2/2003			***OUTFALL INS
Estimated New Structure Length: Estimated Structure Cost: Estimated Total Project Cost:				# OUTFALLS: STATUS:	11
Year of Cost Estimate:				NOTES:	
generalized to use NBI items to come up with	t estimates are computer generated using algorithims ith a new structure length and width to calculate a new ost may vary significantly from these numbers once s	w area which is taken times a represe			

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ED SIGN INFORMATION*** PROBLEM

PROBLEM DIRECTION

SPECTION INFORMATION***

INSPECTOR: DATE:



Missouri Department of Transportation Bridge Inventory and Inspection System Structural Inventory & Appraisal Sheet

COUNTY: MCDONALD RECORD TYPE: ROU	BRIDGE : R0305 JTE CARRIED 'ON' STRUCT	REVIEW STATUS : APPROVED NBI STATUS : 7 RUN DATE : 4/18/2025 SUBMITTAL YEAR : 2	Г 2025			
GENERAL STRUCTURE INFORMATION		ROUTE DESIGNATION INFORMATION				
1State2District3County8Federal ID No.27Year Built106Year Reconstructed42AType of Service On21Structure Maintenance22Structure Owner33Br. Median Code37Historical Significance101Parallel Struc Desg103Temporary Structure112NBIS Bridge Length	MISSOURI SW MCDONALD 8262 1963 0 HIGHWAY STATE HIGHWAY AGENCY STATE HIGHWAY AGENCY NO MEDIAN NOT ELIGIBLE FOR NR OF HP NONE EXISTS NOT TEMPORARY YES	5ARecord TypeROUTE CARRIED 'ON' STRUCT5BRoute Signing PrefixMO5CDesignated Level of ServiceMAINLINE5DRoute Number0000H5EDirectional SuffixNOT APPLICABLE7Facility CarriedRT H E12Base Hwy. NetworkNO13ALRS Inventory Route No.Image: Subroute No.20Toll StatusON FREE ROAD26Functional Classification07-RURAL MAJOR COLLECTOR28ALanes on Structure02100STRAHNET DesignationRTE NOT A DEFENSE HWY104National Highway SystemNOT APPLICABLE				
STDUCTUD	E LOCATION INFORMATION	105 Federal Lands Highway NOT APPLICABLE 110 Designated Nat. Network NO STRUCTURE TRAFFIC INFORMATION				
		125(
4 Place Code	MCDONALD 92805 92805	29 AADT 1356				
9 Location	S 3 T 21 N R 32 W	30 AADT Ital				
11 Milepoint	6.79 miles	102 Direction of Traffic 2-WAY TRAFFIC 109 AADT Truck Percent 11%				
16 Latitude	36 D 34 M 58 S					
17 Longitude	94 D 23 M 14 S					
		115 Future AAD1 Teal				
UNDER	RECORD INFORMATION	STRUCTURE GEOMETRIC INFORMATION				
6 Features Intersected	GOODIN HOLLOW	10 Inventory Rte. Vert. Clear 99 Ft. 99 In.				
42B Type of Service Under	WATERWAY	19 By pass Detour Length 19.38 miles				
28B Lanes Under Structure	00	32 Approach Roadway Width 20 Ft. 12 In.				
54A Vert. Clearance Ref.	N/A	34 Skew 22.00 Degrees				
54B Vert. Clearance	0 Ft. 0 In.	35 Struct. Flared NO				
55A Rt. Lat Clear Ref.	N/A	47 Total Horiz. Clear 21 Ft. 12 In.				
55B Rt. Lat Clearance	0 Ft. 0 In.	48 Maximum Span Length 47 Ft. 3 In.				
56 Left Lat Clearance	0 Ft. 0 In.	49 Structure Length 111 Ft. 11 In.				
38 Navigation Control	PERMIT NOT REQ	50A Left Curb/Sidewalk Width 0 Ft. 0 In.				
39 Nav Vertical Clear	0 Ft. 0 In.	50B Right Curb/Sidewalk Width 0 Ft. 0 In.				
40 Nav Horizontal Clear	0 Ft. 0 In.	51 Curb to Curb Br. Width 21 Ft. 12 In.				
111 Nav. Pier Protection		52 Deck Width (Out-Out) 24 Ft. 3 In.				
116 Nav. Cl. Vert. Clear		53 Vert.Clearance Over Deck 99 Ft. 99 In.				

Design_No = r0305 and Inventory_Appraisal_Submittal_Year = 2025

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Missouri Department of Transportation Bridge Inventory and Inspection System Structural Inventory & Appraisal Sheet

COUNTY: MCDONALD BRIDGE: R0305 RECORD TYPE: ROUTE CARRIED 'ON' STRUCT	REVIEW STATUS :APPROVEDNBI STATUS :TRUN DATE :4/18/2025SUBMITTAL YEAR :2025			
LOAD RATING AND POSTING INFORMATION	MATERIAL/CONSTRUCTION INFORMATION			
31Design LoadH 1541Structure StatusPOSTED FOR LOAD63Oper. Rating Meth.ALLOWABLE STRESS64Operating Rating26 Tons.65Inventory Rating MethALLOWABLE STRESS66Inventory Rating13 Tons.70Bridge Posting Code20.0-29.9% BELOW	43AMain Struc. Mat typeSTEEL43BMain struc Constr. TypeSTRINGER/MULTIBEAM - GRD45# of Main Spans344AAppr Struc. Mat type00044BAppr Struc. Cnstr. type00046# of Approach Span0107Deck Mat/Constr.1 CONCRETE CIP108AWear Surf Mat/Constr.6 BITUMINOUS			
PROPOSED IMPROVEMENT INFORMATION	108A Wear Surf Mat/Constr. 6 BITUMINOUS 108B Membrane Mat/Constr. 0 NONE			
Sufficiency Rating 4.0 Percent Deficiency Rating STRUCTURAL Funding Eligibility FULL 75A Proposed Work REPLACEMENT SUBSTND LOAD	108C Deck Protect Mat/Constr. 0 NONE CONDITION RATING INFORMATION 58 Deck Cond. Rating 4			
75B Work Done By Contract 76 New Struc Length 141 Ft. 1 In.	59 Superstructure Cond. Rating 3 60 Substructure Cond. Rating 4			
94 Struc Improve Cost \$ 818,000 95 Roadway Improve Cost \$ 82,000 96 Total Project Cost \$ 1,226,000	61 Channel /Channel Protection Cond. Rating 7 62 Culvert Cond. Rating N			
97 Year of Cost Estimates 2025	INSPECTION INFORMATION			
APPRAISAL RATING INFORMATION36ABr. Rail App. RatingDOES NOT MEET ACCEPT STND36BTransition Rail App. RatingDOES NOT MEET ACCEPT STND36CApproach Rail App. RatingDOES NOT MEET ACCEPT STND36DRail End Treat. App. RatingDOES NOT MEET ACCEPT STND36DRail End Treat. App. RatingDOES NOT MEET ACCEPT STND67Struc Eval App. Rating268Deck Geometry App. Rating369Underclearance App. RatingN71Waterway Adeq. App. Rating872Approach Road App. Rating8113Scour Assess App. Rating8	90 Gen. Insp Date 10 / 24 91 Gen. Insp. Frequency 12 Months 92A Frac. Critical Inspection N Months 93A Frac. Critical Insp. Date 92B Underwater Inspection N Months 93B Underwater Insp. Date 92C Special Inspection N Months 93C Special Inspection Date N Months 93C Special Inspection Date Voltable BORDER BRIDGE INFORMATION 98 Neighboring State Code 98B Neighboring State Struc. No. Voltable			
APPROVED POSTING INFORMATION	FIELD POSTING INFORMATION			
Approved Posting Category S-16 Ton1 Ton2 Ton3	Field Posting Category S-16 Ton1 Ton2 Ton3			
Tonnage Values for Posting Sign 17 22 39	Tonnage Values for Posting Sign 17 22 39			
General Text for Posting Sign TRKS OVR 17 TNS 15MPH ON BR EXCPT SNGLE UNIT TRKS WT LIMIT 22 TNS&ALL OTHR TRKS WT LIMIT 39 TNS.	General Text for Posting Sign TRKS OVR 17 TNS 15MPH ON BR EXCPT SNGLE UNIT TRKS WT LIMIT 22 TNS&ALL OTHR TRKS WT LIMIT 39 TNS.			
Design_No = r0305 and Inventory_Appraisal_Submittal_Year = 2025				

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