

#### **Environmental Programs Division**

## **Automatic Categorical Exclusion (ACE)**

Date	May 4, 2023	Project N	o.	J3-0637(004)PM		
County	Oklahoma	State Job	Piece No.	30637(04)		
NEPA Project Manager	F. Guerrero	Phone Nu	ımber	405-982-0898		
ODOT Field District	4		BI No. (County & State & Location No. (County Only)	NBI 18769 & 18770		
Project Description from JPINFO	BRIDGE REHABILIT NORTH OF I-40	TATION	V I-44: OVER THE U	UPRR, 0.7 MILES		
Purpose & Need	To correct 'at-risk of b	ecoming	structurally deficient' l	oridges.		
Description of the Proposed Action	The proposed improvement consists of repairing the bridge decks, abutments, parapets, beams and superstructure along with reconstructing the bridge approach slabs, roadway and median. Soil will be removed and					
	0 11		ed to allow room for fu			
	Railroad (UPRR) track. A crash wall will also be constructed within UPRR right-of -way. All work will remain within existing right of way					
	and will be coordinated with the UPRR, the roadway will remain open					
	during construction by utilizing crossovers.					
This action falls within the	ne following item identified			g 22		
	FR 771.117(C ) ITEM NUM					
		X	State 8 Year Construction	n Program		
This project is included i	n: (Check all applicable on	es)	County 5 Year Construction Program			
		X	State Transportation Improvement Program			
This project has federa	al funds: (Check application	ble X	<b>Currently has Federal Funds</b>			
one.)			Potential for Future Fed	eral Funds		
1 0	Aetropolitan Transportati		Yes			
Improvement Program (If applicable) (Check						
applicable one)			Not Applicable			
This project involves one or more items in Section IV.A.1.b. of the 2019 ODOT/FHWA Programmatic			YES. If the answer is YE will have to be prepared	*		
	essing that would render the omatic certification apply		NO			

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This action is among those categorical exclusions listed in 23 CFR 771.117(c) that normally do not require any further NEPA approvals by FHWA. ODOT has determined that this project does not individually or cumulatively have a significant impact on the environment as defined by NEPA (23 CFR 771.117(a)), or involve unusual circumstances as defined in 23 CFR 771.117(b), and is therefore excluded from the requirements to prepare an environmental assessment (EA) or environmental impact statement (EIS).

#### **Pre Construction Commitments:**

ODOT Commitment: All operators, employees, and contractors will be made aware of all environmental commitments, including the following Plan Notes.

Tree Removal Minimization Commitment: In order to avoid impacts to USFWS Birds of Conservation Concern, the removal of trees and shrubs will be restricted to areas within the actual limits of construction, and all aspects of the project (e.g. temporary work areas, alignments) will be modified to avoid tree removal, if possible, during the design of the project. Tree removal will be limited to that specified in the project plans provided to contractors.

#### Right-of-Way and Utility Commitments

The following Construction Commitments requiring avoidance, restrictions or minimization of natural and human resources during Right-of-Way clearance and Utility relocation activities will be discussed with the Right-of-Way and Utility Owners at the start of Right-of-Way and Utility Process.

#### **Construction Commitments**

The following plan notes requiring avoidance, restrictions or minimization of natural and human resources in the project and off-site project areas will be added to the final project plans under "Environmental Mitigation Notes" per policy Directive C-201-2.

Non-Compliance: Failure to implement the commitments specified in the Plan Notes can result in non-compliance issues on the project. Work activities may be suspended on the project, for an undetermined duration, while working with regulators to bring the project back into compliance. The contractor will not be compensated for time lost.

Water Quality Conservation: Appropriate Best Management Practices to minimize impacts from storm water discharges and sedimentation in streams, as established by the Oklahoma Department of Environmental Quality, shall be conscientiously implemented throughout the proposed construction periods, in order to minimize any potential impacts to any listed species. The effectiveness of erosion controls shall be maintained for the duration of construction activities. Hazardous materials, chemicals, fuels, lubricating oils, and other such substances shall be stored at least 100 feet outside of the ordinary high water mark (OHWM). Refueling of construction equipment shall also be conducted at least 100 feet from the OHWMs. Sediment and erosion controls shall be installed around staging areas to prohibit discharge of materials from these sites. Construction waste materials and debris shall be stockpiled at least 25 feet outside of the OHWMs, and these materials shall be removed and disposed of properly following completion of the project. Preventative measure must be taken to prohibit the discharge of contaminants into any surface waters.

Migratory Bird Note: Migratory birds are protected by the federal Migratory Bird Treaty Act. Many birds commonly use bridges and culverts for nesting. The nesting season for most migratory bird species extends from March 1 to August 31. Migratory bird nesting use of the I-44 UP RR bridge (NBI:18770) and an RCB 9STA.381+86.64) was observed. Painting, repair, retrofit, rehabilitation or demolition of the existing bridge and culvert shall be conducted between September 1, and February 28, when migratory

Page 2 of 4 Updated: October 1, 2021

bird nests are not occupied. If painting, repair, retrofit, rehabilitation or demolition cannot be completed between September 1 and February 28, the bridge and culvert shall be protected from new nest establishment prior to March 1, by means that do not result in bird death or injury. Options include the exclusion of adult birds from suitable nest sites on or within a structure by the placement of weather-resistant polypropylene netting with 0.25-inch or smaller openings, prior to March 1. Methods other than netting must be pre-approved by the ODOT Biologist.

Although no nests were observed on all other structures, the birds may occupy the structures in the future. The Resident Engineer shall contact the ODOT Biologist if any bird use of these structures is observed. If birds are observed then painting, repair, retrofit, rehabilitation or demolition of the existing bridges and culverts shall be conducted between September 1, and February 28 (when migratory bird nests are not occupied).

Species (choose those that apply)	Seasonal Restriction Period
Migratory Birds: Swallows and Phoebes	March 1 – August 31
(NESTS PRESENT)	

The mitigation measures should be discussed at all Pre-work conferences per Policy Directive C-201-2. The Environmental Programs Division shall provide **the final plan sheet with the mitigation notes** to the Designer for inclusion in Final Plans and keep a copy for the project records.

All documentation, analyses, and agency coordination regarding this Categorical Exclusion are contained in a Supporting Appendix maintained in the project file at the Oklahoma Department of Transportation, Environmental Programs Division.

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Development of the project including coordination and assessment of potential social, economic and environmental impacts has been considered in accordance with DOT ORDER 5610.1C, and CEQ REGULATIONS 40 CFR 1500 -1508 as amended, 23 CFR 771.117 and the 2019 FHWA/ODOT Programmatic Agreement for processing of categorical exclusions. Implementation of this action as a "Categorical Exclusion" will satisfy the requirements of the National Environmental Policy Act.

Preparer/Reviewer Signatures

County Commissioner or City Manager (For Local Government Projects)	Date
Frank Guerrero	05/09/2023
ODOT Environmental Project Manager	Date
Leslie Novotny	5/9/2023
ODOT NEPA Program Supervisor	Date

#### Attachments:

- 1. Location Map
- 2. Current Plans and Study Footprint
- 3. Studies and Coordination
- 4. Other Section–Initiation and Inspection Reports

Distribution List (Check Applicable Ones)

	ation hist (Check rippineaste Ones)
X	Project Management Division (All State Projects)
	Roadway Design Division (All State projects with the exception of projects from Traffic Division and
	Special Projects)
X	Bridge Division (All State Bridge Projects)
	Traffic Division (For projects from Traffic Division)
	Local Government Division (County or City Projects)
	Rail Programs Division (Rail Safety Projects Only)
	Special Projects (Special Projects Only)
	Safe Routes to School Coordinator (SRTS Projects Only)
X	Field Division Engineer (All Projects)
X	Right-of-Way Division (All Projects)

Page 4 of 4 Updated: October 1, 2021

#### STATE OF OKLAHOMA DEPARTMENT OF TRANSPORTATION

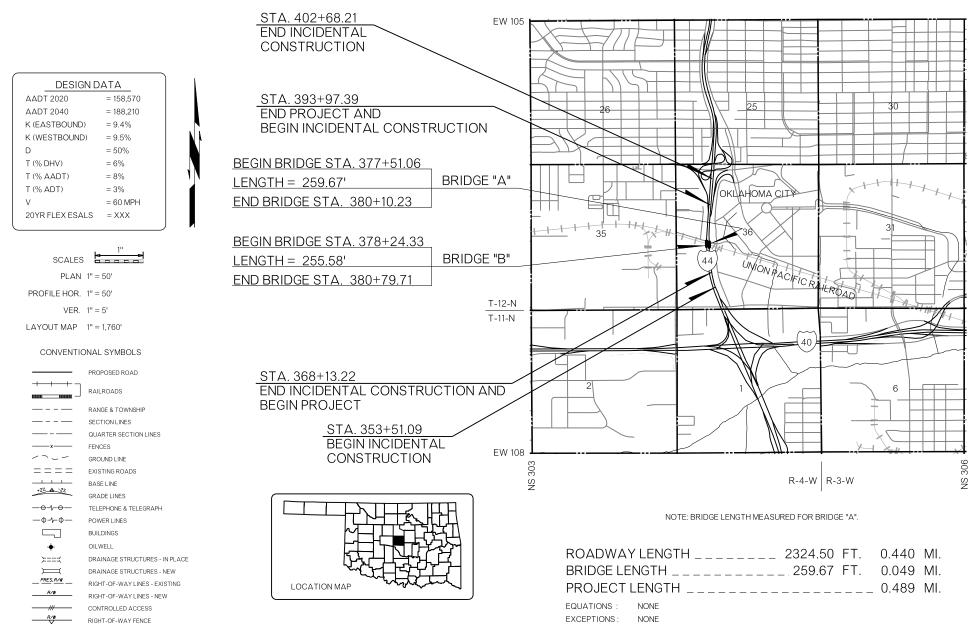
#### PLAN OF PROPOSED

#### STATE HIGHWAY

FEDERAL AID PROJECT NO. XXXX-XXXX(XXX) **BRIDGE REHABILITATION** INTERSTATE HIGHWAY 44 OVER THE U.P.R.R.

# OKLAHOMA COUNTY

CONTROL SECTION NO. 44-55-07 STATE JOB NO. 30637(04) BRIDGE "A" LOCATION NO. 5507-0071EX BRIDGE "B" LOCATION NO. 5507-0071WX BRIDGE "A" EXISTING NBI NO. 18769 BRIDGE "B" EXISTING NBI NO. 18770



OKLAHOMA DEPARTMENT OF TRANSPORTATION

THIS DOCUMENT IS PRELIMINARY IN NATURE AND IS NOT A FINAL, SIGNED AND SEALED DOCUMENT.

1/27/2023

OKLAHOMA DEPARTMENT OF TRANSPORTATION R/W UTILITY MEETING 1/27/2023

OKLAHOMA DEPARTMENT OF TRANSPORTATION

#### **INDEX OF SHEETS**

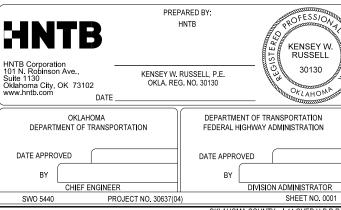
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R013-R014 GUARDRAIL DETAILS SOIL NAIL WALL DETAILS RW01-RW02 SUGGESTED SEQUENCE OF CONSTRUCTION T001-T021 SIGNING AND MARKING PLANS

OVERHEAD SIGN DETAIL S001-S006 SURVEY DATA SHEETS X001-X076 CROSS SECTIONS

\* = SHEETS NOT INCLUDED IN THIS SUBMITTAL

**STANDARDS** 



OKLAHOMA COUNTY I-44 OVER U.P.R.

2019 OKLAHOMA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION GOVERN, APPROVED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION, DECEMBER 18, 2019.

FOR SURVEY CONTROL DATA,

SEE SURVEY DATA SHEETS

# RIGHT-OF-WAY PLANS OR FINAL PLANS AND NEPA STUDY FOOTPRINT OR STUDY PLANS

#### STATE OF OKLAHOMA DEPARTMENT OF TRANSPORTATION

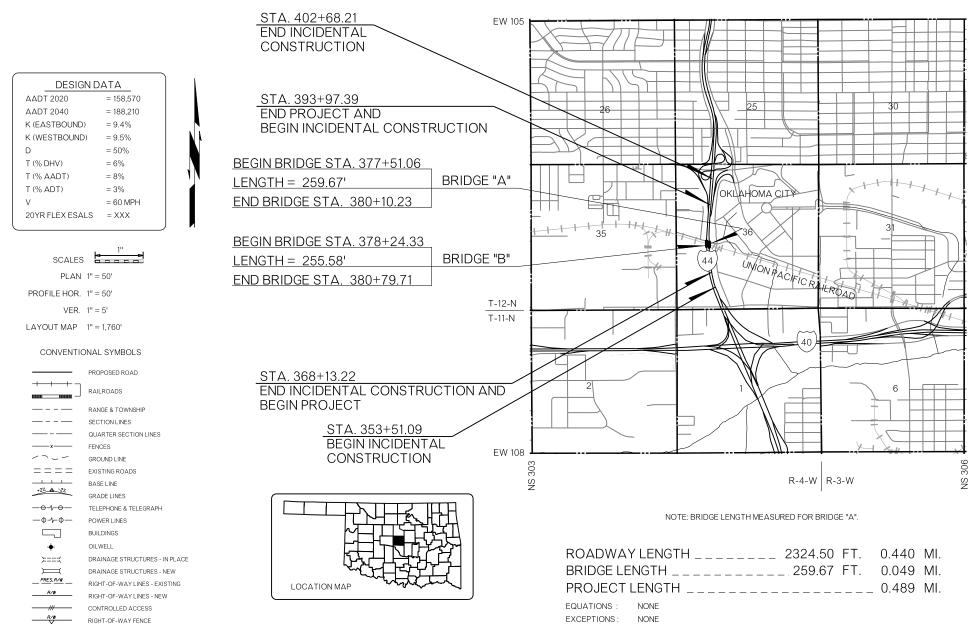
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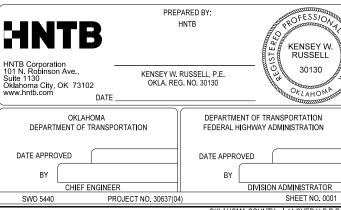
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OKLAHOMA COUNTY I-44 OVER U.P.R.

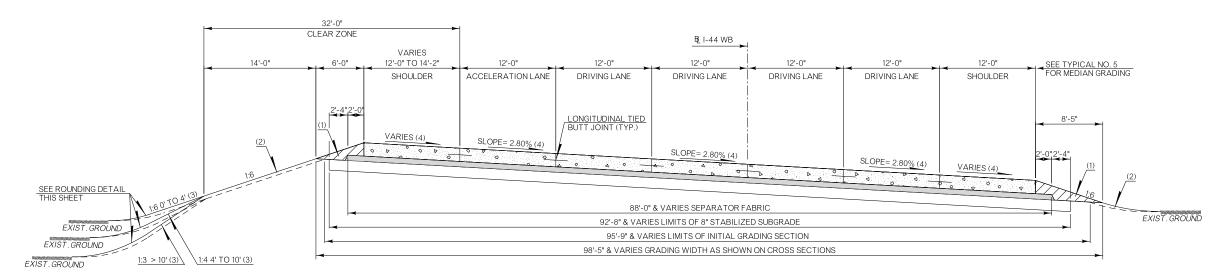
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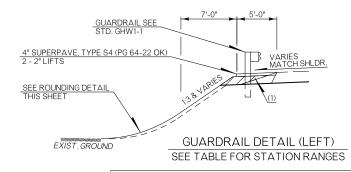
R/W UTILITY MEETING



PAVEMENT REQUIREMENT					
PAVT. STRUCTURE	12'-0" DRIVING LANES	12'-0" PAVED SHOULDERS			
SURFACE COURSE	10" DOWEL JOINTED P.C. CONC. PVMT.	10" DOWEL JOINTED P.C. CONC. PVMT.			
BASE COURSE	4" SUPERPAVE TYPE S3 (PG 64-22 OK)	4" SUPERPAVE TYPE S3 (PG 64-22 OK)			

#### I-44 WESTBOUND (FULL RECONSTRUCTION) TYPICAL NO. 1

STA. 372+04.00 TO STA. 377+82.86 STA. 381+23.09 TO STA. 383+72.00



GUARDRAIL DETAIL (LEFT)					
ALIGNMENT	WIDTH	STATION EXTENTS			
<b>₿</b> I-44 WB	0'-0" TO 5'-0"	STA. 373+78.29 TO STA. 374+47.65			
<b>₿</b> I-44 WB	5'-0"	STA. 374+47.65 TO STA. 377+82.86			
<b>₿</b> I-44 WB	5'-0"	STA. 381+23.14 TO STA. 393+55.87			
<b>₿</b> I-44 WB	5'-0" TO 0'-0"	STA. 393+55.84 TO STA. 394+25.93			
B_ I-44 EB	0'-0" TO 5'-0"	STA. 374+34.46 TO STA. 375+04.25			
₽ I-44 EB	5'-0"	STA. 375+04.25 TO STA. 376+88.82			

(1) BACKFILL NOTE:

TO BE BACKFILLED AND COMPACTED AS PART OF THE FINISHING OPERATIONS. QUANTITY IS MEASURED IN TBSC TYPE E.

THE CONTRACTOR SHALL STRIP ALL OF THE AVAILABLE TOPSOIL, STOCKPILE IT, AND PLACE IT BACK ON THE SECTION IN ACCORDANCE WITH SECTION 205 OF THE STANDARD SPECIFICATIONS. RESERVED TOPSOIL SHALL BE SPREAD FIRST ON THE COMPLETED SLOPES OF THE CUT SECTIONS AND THE REMAINDER ON COMPLETED FILL SLOPES OR OTHER PRIORITY AREAS LOCATED BY THE ENGINEER. ALL ADDITIONAL COSTS ASSOCIATED WITH OPERATIONS SHALL BE INCLUDED IN THE PAY ITEM FOR SALVAGED TOPSOIL, LUMP SUM.

THE GRADING LINE AS SHOWN ON THE TYPICAL AND CROSS SECTIONS IS TO THE TOP OF THE TOPSOIL. EARTHWORK QUANTITIES WERE NOT ADJUSTED FOR SALVAGE AND THE TOPSOIL QUANTITY IS INCLUDED IN THE MASS LINE BALANCE.

- (3) DISTANCE MEASURED VERTICALLY FROM EDGE OF FINISHED GRADE SHOULDER.
- (4) CROSS SLOPES SHOWN ARE NOMINAL FOR FULL SUPERELEVATION, SEE PROFILES FOR CROSS SLOPE TRANSITIONS AND ADDITIONAL SUPERELEVATION INFORMATION.

COONTT		1011	- IIIGIIWAI		_ STATE JOB IN	J		
COUNTY _	Oł	KLAHOM	A HIGHWAY	1-44	_ STATE JOB NO	30637(04	4) SHEET NO	0002
SQUAD	AK.	ITB						
APPROVED				IYP	ICAL :	SECTI	ON	
CHECKED	MJG		_	TVD		ОГОТІ		
DRAWN	TGG							
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TOPSOIL

TOE OF FILL ROUNDING

INITIAL

FILL SLOPE

ROUNDING DETAIL

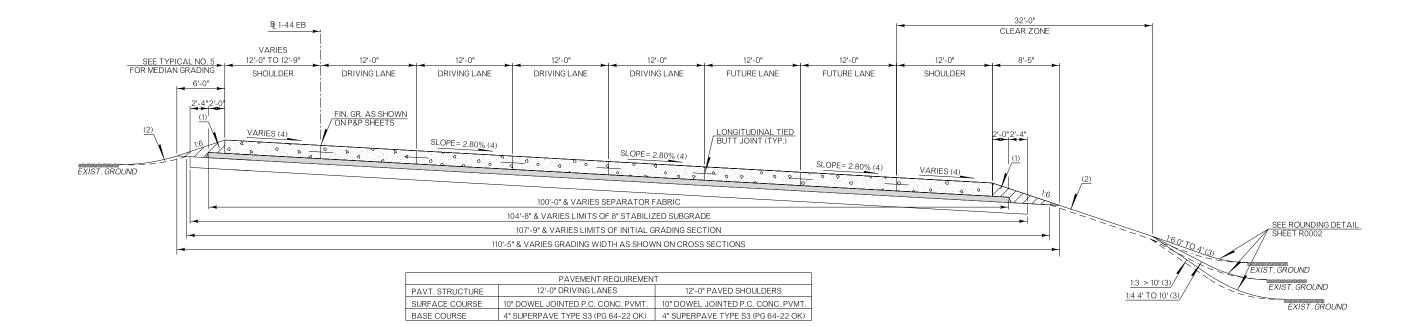
• 5' MIN. - 15' MAX.

TOP OF CUT ROUNDING

ROUNDED

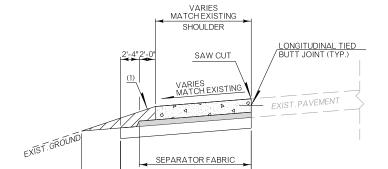
● INTERSECTION OF CUT AND/OR FILL SLOPES WITH GROUND LINE TO BE ROUNDED AS PART OF FINISHING OPERATIONS. ROUNDING SHALL BE 5' MINIMUM FOR SMALLER CUTS AND FILLS TO 15' MAXIMUM FOR LARGER CUTS AND FILLS OR AS DESIGNATED BY THE ENGINEER. COST OF ROUNDING TO BE INCLUDED IN PRICE BID FOR OTHER ITEMS OF WORK.

(OKLAHOMA DEPARTMENT OF TRANSPORTATION) (OKLAHOMA DEPARTMENT OF TRANSPORTATION R/W UTILITY MEETING 1/27/2023



I-44 EASTBOUND (FULL RECONSTRUCTION) TYPICAL NO. 2 STA. 372+38.00 TO STA. 376+88.80

STA. 380+44.35 TO STA. 386+58.00



PAVEMENT REQUIREMENT					
PAVT. STRUCTURE	SHOULDER RECONSTRUCTION				
SURFACE COURSE	10" DOWEL JOINTED P.C. CONC. PVMT.				
BASE COURSE	4" SUPERPAVE TYPE S3 (PG 64-22 OK)				

LIMITS OF 8" STABILIZED SUBGRADE

#### I-44 WESTBOUND SHOULDER RECONSTRUCTION TYPICAL NO. 1 STA. 362+60.74 TO STA. 378+18.62 STA. 381+07.31 TO STA. 388+52.79

4" SUPERPAVE, TYPE S4 (PG 64-22 OK) 2 - 2" LIFTS SEE ROUNDING DETAIL SHEET R0002

EXIST.GROUND

#### GUARDRAIL DETAIL (RIGHT) SEE TABLE FOR STATION RANGES

GUARDRAIL DETAIL (RIGHT)				
ALIGNMENT	WIDTH	STATION EXTENTS		
<b>B</b> _ I-44 EB	0'-0" TO 5'-0"	STA. 373+53.75 TO STA. 374+24.85		
<b>B</b> _ I-44 EB	5'-0"	STA. 374+25.85 TO STA. 376+90.02		
<b>B</b> _ I-44 EB	5'-0"	STA. 380+44.31 TO STA. 390+38.96		
<b>B</b> _ I-44 EB	5'-0" TO 0'-0"	STA. 390+38.96 TO STA. 391+09.13		

(1) BACKFILL NOTE:

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(2) TOPSOIL NOTE:

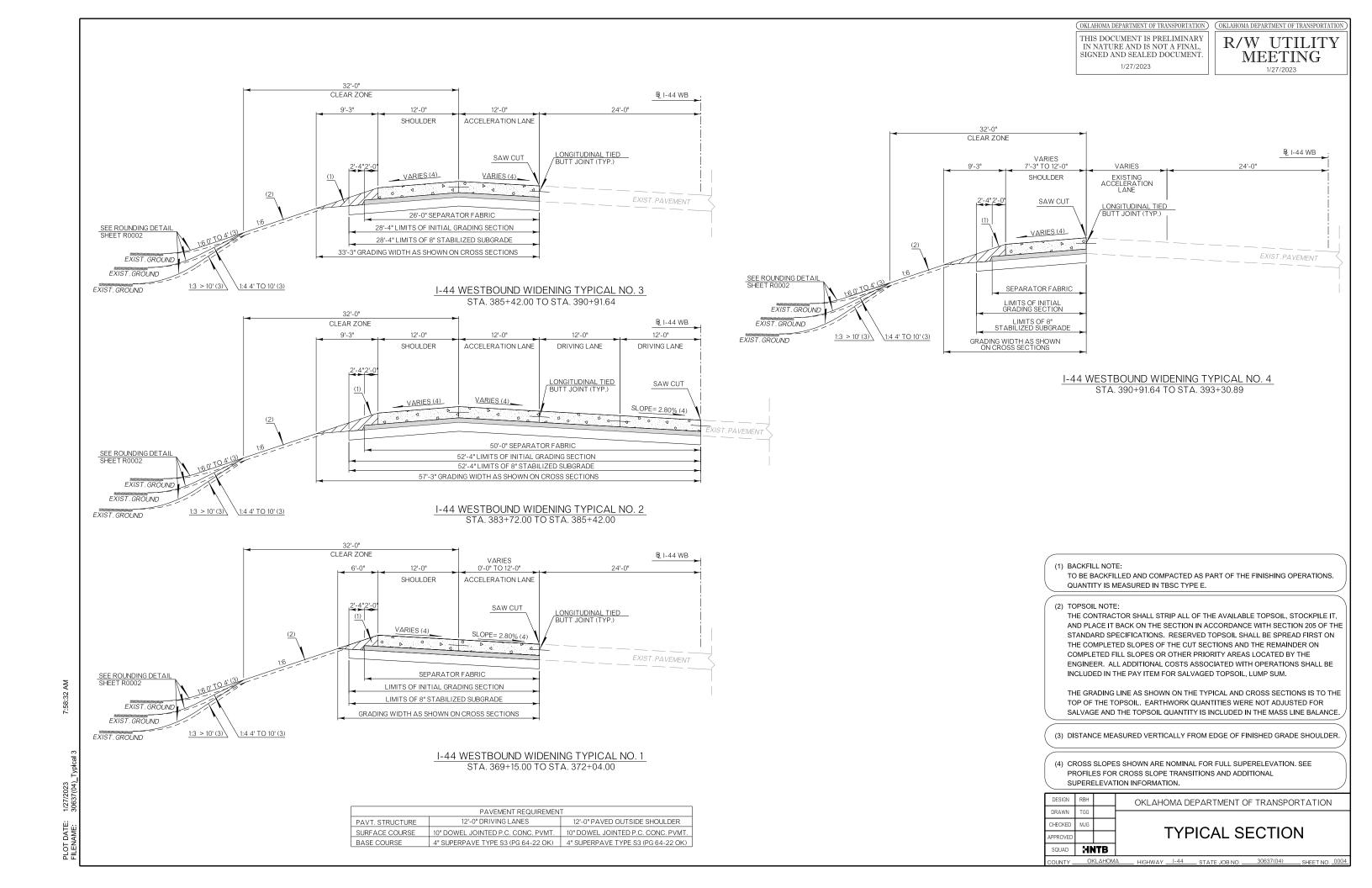
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THE GRADING LINE AS SHOWN ON THE TYPICAL AND CROSS SECTIONS IS TO THE TOP OF THE TOPSOIL. EARTHWORK QUANTITIES WERE NOT ADJUSTED FOR SALVAGE AND THE TOPSOIL QUANTITY IS INCLUDED IN THE MASS LINE BALANCE.

- (3) DISTANCE MEASURED VERTICALLY FROM EDGE OF FINISHED GRADE SHOULDER.
- (4) CROSS SLOPES SHOWN ARE NOMINAL FOR FULL SUPERELEVATION. SEE PROFILES FOR CROSS SLOPE TRANSITIONS AND ADDITIONAL SUPERELEVATION INFORMATION.

COUNTY_	Oł	KLAHOM	A HIGHWAY	I-44	STATE JOB NO	30637(04)	SHEET NO.	0003
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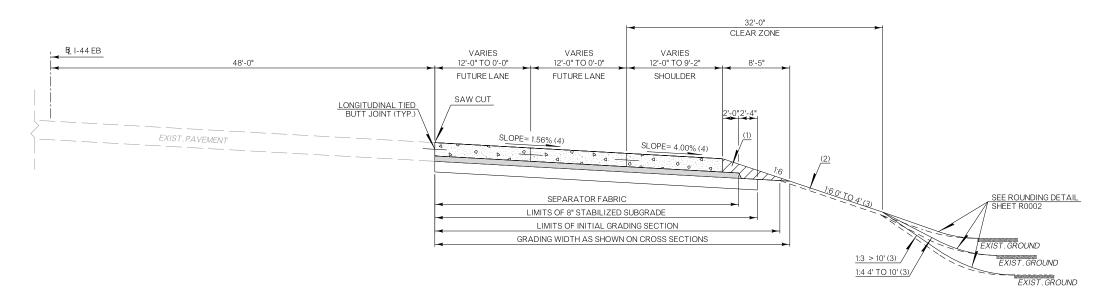
PLOT DATE:



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OKLAHOMA DEPARTMENT OF TRANSPORTATION OKLAHOMA DEPARTMENT OF TRANSPORTATION R/W UTILITY MEETING 1/27/2023



#### I-44 EASTBOUND WIDENING TYPICAL NO. 1 STA. 368+00.00 TO STA. 372+38.00 STA. 386+58.00 TO STA. 389+07.20

PAVEMENT REQUIREMENT					
PAVT. STRUCTURE	12'-0" DRIVING LANES	12'-0" PAVED OUTSIDE SHOULDER			
SURFACE COURSE	10" DOWEL JOINTED P.C. CONC. PVMT.	10" DOWEL JOINTED P.C. CONC. PVMT.			
BASE COURSE	4" SUPERPAVE TYPE S3 (PG 64-22 OK)	4" SUPERPAVE TYPE S3 (PG 64-22 OK)			

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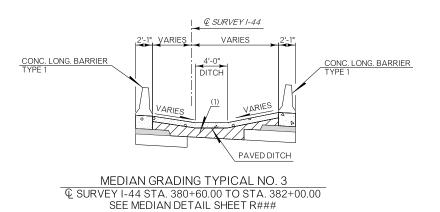
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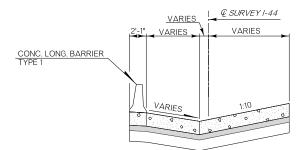
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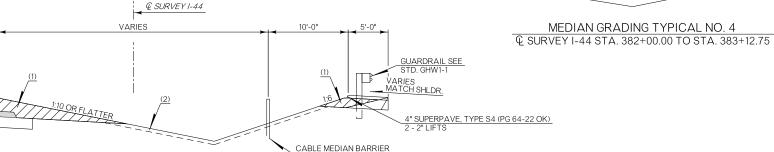
THE GRADING LINE AS SHOWN ON THE TYPICAL AND CROSS SECTIONS IS TO THE TOP OF THE TOPSOIL. EARTHWORK QUANTITIES WERE NOT ADJUSTED FOR SALVAGE AND THE TOPSOIL QUANTITY IS INCLUDED IN THE MASS LINE BALANCE.

- (3) DISTANCE MEASURED VERTICALLY FROM EDGE OF FINISHED GRADE SHOULDER.
- (4) CROSS SLOPES SHOWN ARE NOMINAL FOR FULL SUPERELEVATION. SEE PROFILES FOR CROSS SLOPE TRANSITIONS AND ADDITIONAL SUPERELEVATION INFORMATION.

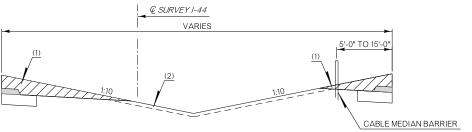
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APPROVED			TYPICAL SECTION
SQUAD	HN	ITB	
COUNTY_	Oł	KLAHOM	A HIGHWAY 1-44 STATE JOB NO. 30637(04) SHEET NO. 0005
COUNTY _	01		THIGHWAT TO STATE JOB NO. COCOTO TO SHEET NO. COCO







© SURVEY I-44 VARIES CONC. LONG. BARRIER
TYPE 1



MEDIAN GRADING TYPICAL NO. 5 © SURVEY I-44 STA. 383+12.75 TO STA. 386+81.00

MEDIAN GRADING TYPICAL NO. 1 © SURVEY I-44 STA. 372+54.00 TO STA. 375+50.00

MEDIAN GRADING TYPICAL NO. 2

© SURVEY I-44 STA. 375+50.00 TO STA. 377+60.00

	PAVEMENT REQUIREMENT		
PAVT. STRUCTU	RE	PAVED MEDIAN	
SURFACE COURS	E 10" DOV	WEL JOINTED P.C. CONC. PVMT.	
BASE COURSE	4" SUPE	ERPAVE TYPE S3 (PG 64-22 OK)	

CABLE MEDIAN BARRIER OFFSET		
OFFSET	STATION EXTENTS	
5'-0" TO 15'-0"	STA. 372+00.00 TO STA. 374+75.00	
15'-0"	STA. 374+75.00 TO STA. 377+60.00	

(1) BACKFILL NOTE:

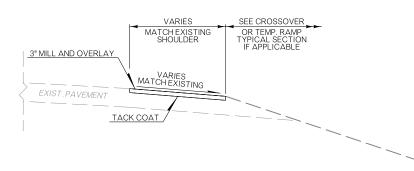
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THE GRADING LINE AS SHOWN ON THE TYPICAL AND CROSS SECTIONS IS TO THE TOP OF THE TOPSOIL. EARTHWORK QUANTITIES WERE NOT ADJUSTED FOR SALVAGE AND THE TOPSOIL QUANTITY IS INCLUDED IN THE MASS LINE BALANCE.

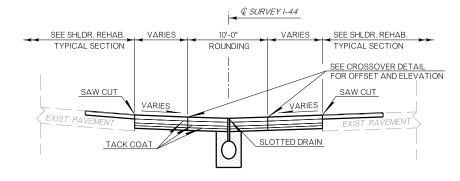
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SQUAD	Æ	NTB						
APPROVED			TYPICAL SECT		=0110	ON		
CHECKED	MJG		T)/DIO 41 OF OT			CTIO	IONI	
DRAWN	TGG							_
DESIGN	RBH		OKLAH	DMA D	EPARTMENT O	F TRANSPO	RTATION	
	_	_						_



#### SHOULDER REHABILITATION TYPICAL NO. 1

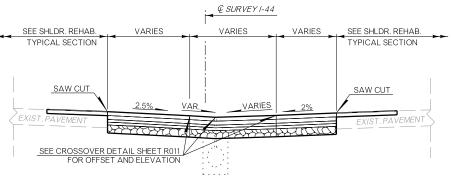
₿ I-44 WB STA. 362+60.74 TO STA. 378+18.62, OUTSIDE SHLDR B I-44 WB STA, 381+07.31 TO STA, 388+52.79, OUTSIDE SHLDR. **B** I-44 WB STA. 395+41.18 TO STA. 396+86.00, OUTSIDE SHLDR ₿ I-44 WB STA. 362+60.74 TO STA. 377+97.91, INSIDE SHLDR. ₿ I-44 WB STA. 380+85.00 TO STA. 390+84.32, INSIDE SHLDR B I-44 EB STA, 364+82,35 TO STA, 377+37,97, INSIDE SHLDR. ₽ I-44 EB STA. 380+30.40 TO STA. 390+53.00, INSIDE SHLDR.

PAV	EMENT REQUIREMENT
PAVT. STRUCTURE	SHOULDER
SURFACE COURSE	3" SUPERPAVE TYPE S4 (PG 64-22 OK)

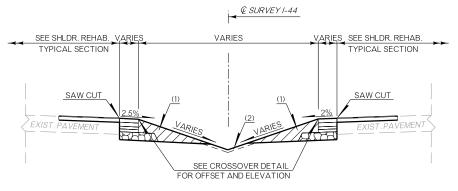


#### NORTH CROSSOVER TYPICAL NO. 1 © SURVEY I-44 STA. 385+11.22 TO STA. 389+19.06

PAVEMENT REQUIREMENT		
PAVT. STRUCTURE	CROSSOVER	
SURFACE COURSE	3" SUPERPAVE TYPE S4 (PG 64-22 OK)	
BASE COURSE	3" SUPERPAVE TYPE S3 (PG 64-22 OK)	
	2" SUPERPAVE TYPE S3 (PG 64-22 OK)	
	2" SUPERPAVE TYPE S3 (PG 64-22 OK)	



#### SOUTH CROSSOVER TYPICAL NO. 2 © SURVEY I-44 STA. 367+75.00 TO STA. 369+66.00



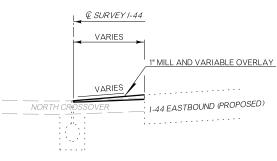
#### SOUTH CROSSOVER TYPICAL NO. 1 © SURVEY I-44 STA. 365+21.30 TO STA. 367+75.00 Q SURVEY I-44 STA. 369+66.00 TO STA. 372+35.48

PAVEMENT REQUIREMENT		
PAVT. STRUCTURE	CROSSOVER	
SURFACE COURSE	3" SUPERPAVE TYPE S4 (PG 64-22 OK)	
	3" SUPERPAVE TYPE S3 (PG 64-22 OK)	
BASE COURSE	2" SUPERPAVE TYPE S3 (PG 64-22 OK)	
BAGE GOOKGE	2" SUPERPAVE TYPE S3 (PG 64-22 OK)	
	6" AGGREGATE BASE, TYPE A	

CROSSOVER INTERIOR GRADING SLOPES		
SLOPE	STATION EXTENTS	
1:10	BEGIN TO STA. 367+75.00	
1:6	STA. 369+66.00 TO STA. 370+45.00	
1:6 TO 1:10	STA. 370+45.00 TO STA. 370+95.00	
1:10	STA: 370+95.00 TO END	

THIS DOCUMENT IS PRELIMINARY IN NATURE AND IS NOT A FINAL, SIGNED AND SEALED DOCUMENT. 1/27/2023

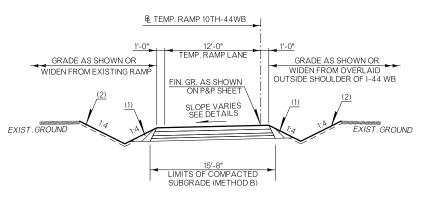




# NORTH CROSSOVER TYPICAL NO. 2 (PHASE 3B MODIFICATION)

₿ I-44 EB STA. 384+88.45 TO STA. 386+58.00

PAVEMENT REQUIREMENT			
PAVT. STRUCTURE	OVERLAY		
SURFACE COURSE	3" SUPERPAVE TYPE S3 (PG 64-22 OK)		



### TYPICAL NO. 1 TEMPORARY RAMP 10TH-44WB

**B** TEMP. RAMP 10TH-44WB STA. 396+17.76 TO STA. 399+29.59

PAVEMENT REQUIREMENT		
PAVT. STRUCTURE	CROSSOVER	
SURFACE COURSE	3" SUPERPAVE TYPE S4 (PG 64-22 OK)	
	3" SUPERPAVE TYPE S3 (PG 64-22 OK)	
BASE COURSE	2" SUPERPAVE TYPE S3 (PG 64-22 OK)	
	2" SUPERPAVE TYPE S3 (PG 64-22 OK)	

(1) BACKFILL NOTE:

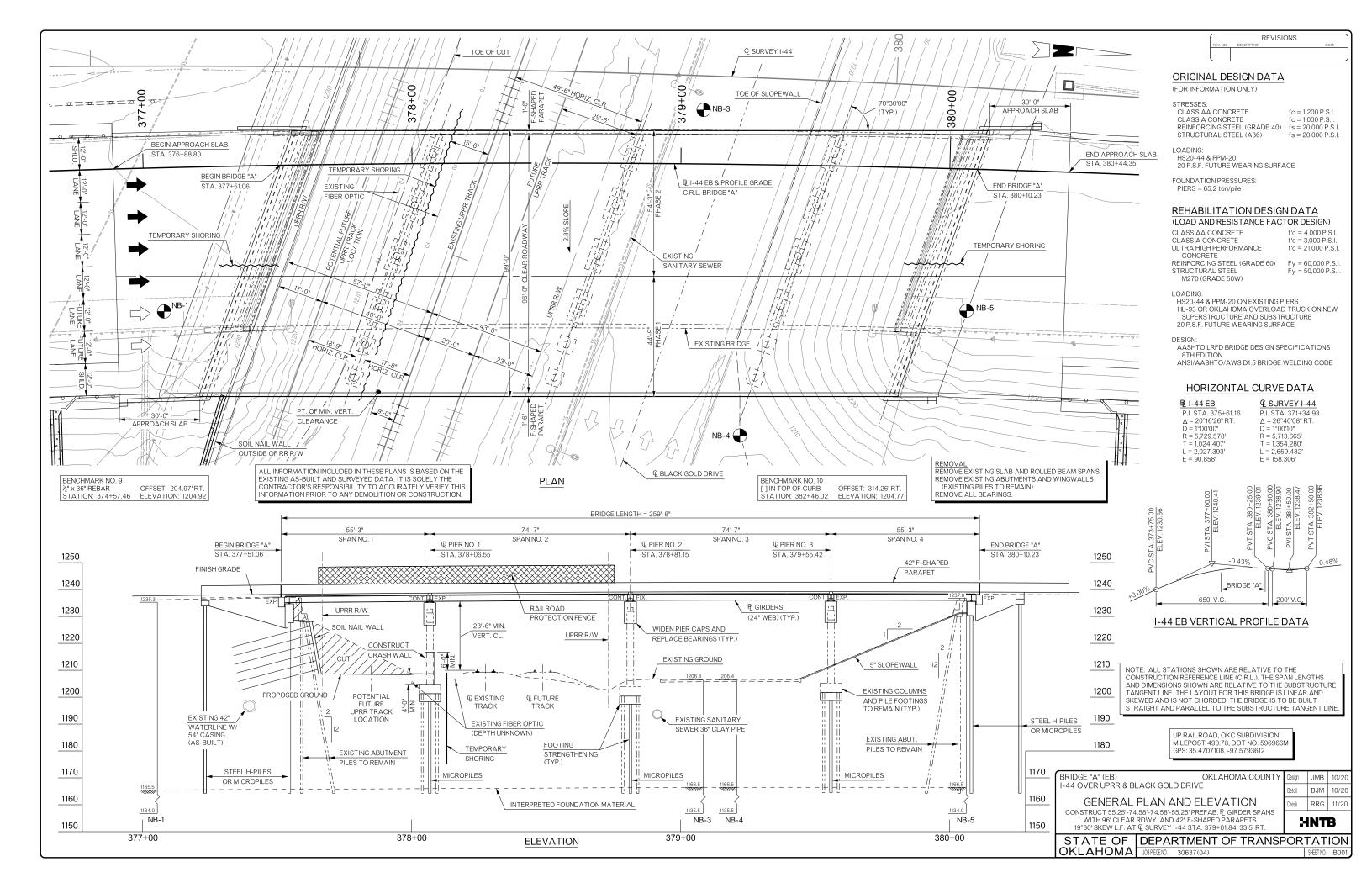
TO BE BACKFILLED AND COMPACTED AS PART OF THE FINISHING OPERATIONS. QUANTITY IS MEASURED IN TBSC TYPE E.

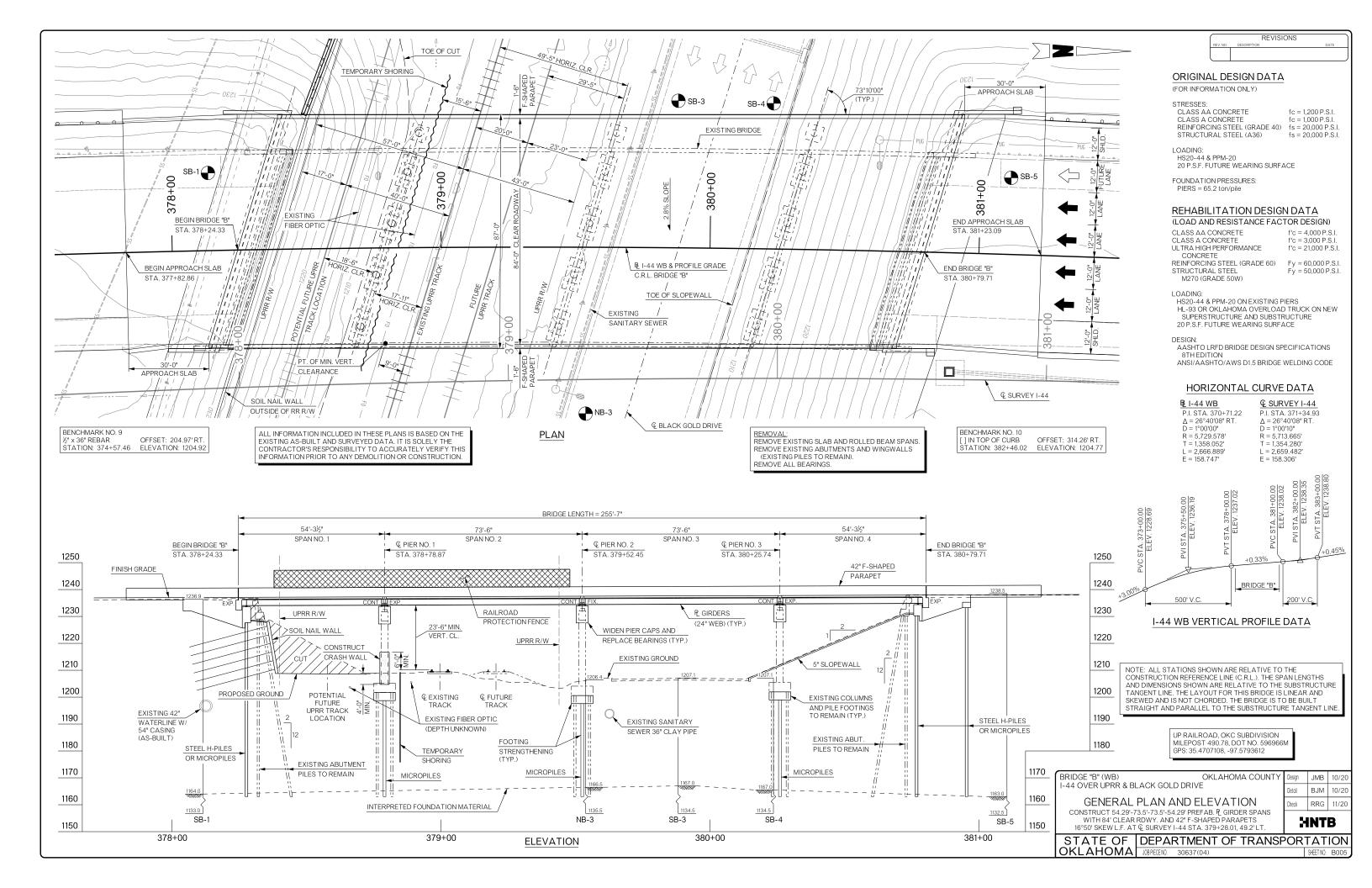
(2) TOPSOIL NOTE:

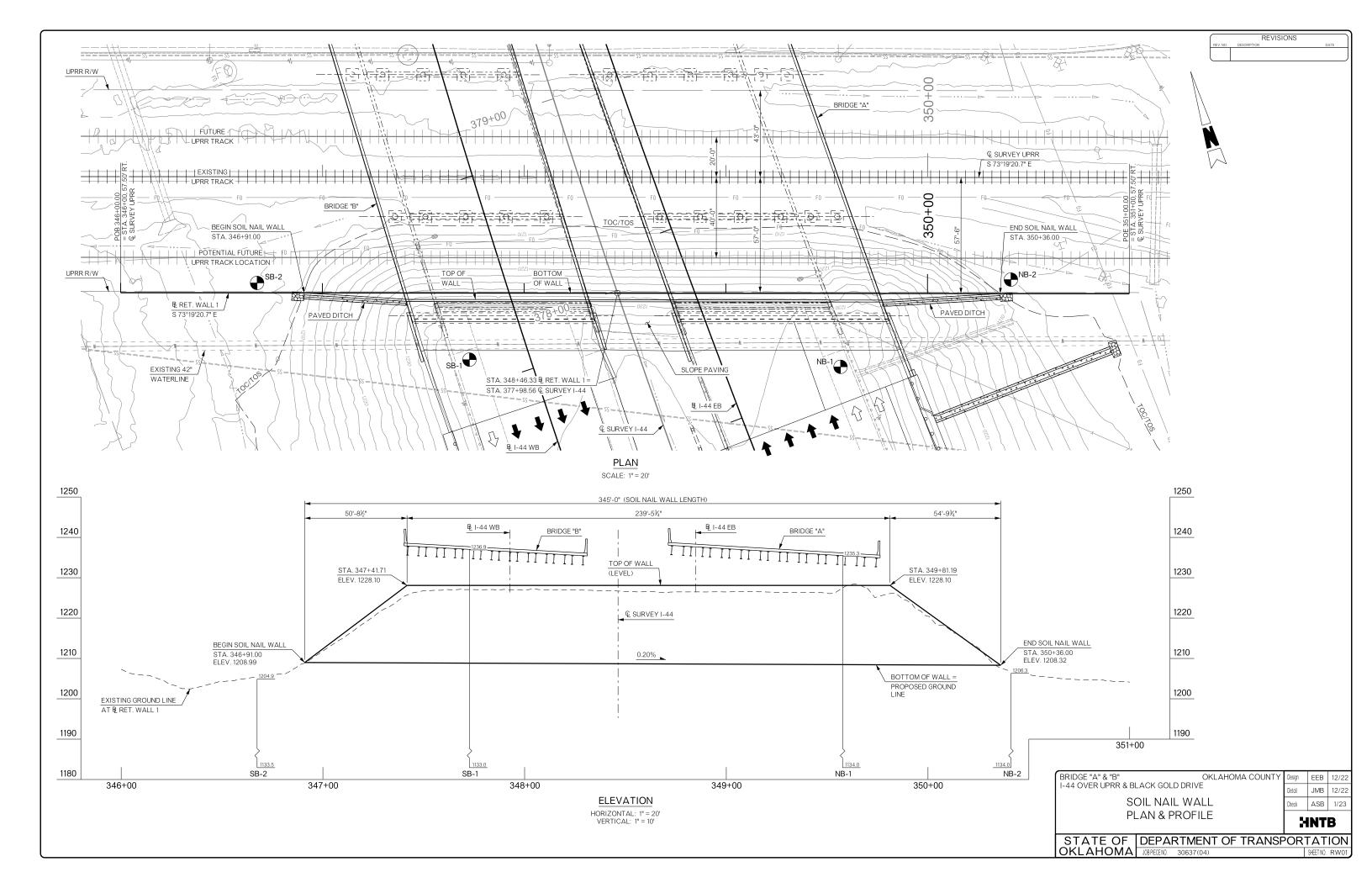
THE CONTRACTOR SHALL STRIP ALL OF THE AVAILABLE TOPSOIL, STOCKPILE IT, AND PLACE IT BACK ON THE SECTION IN ACCORDANCE WITH SECTION 205 OF THE STANDARD SPECIFICATIONS. RESERVED TOPSOIL SHALL BE SPREAD FIRST ON THE COMPLETED SLOPES OF THE CUT SECTIONS AND THE REMAINDER ON COMPLETED FILL SLOPES OR OTHER PRIORITY AREAS LOCATED BY THE ENGINEER. ALL ADDITIONAL COSTS ASSOCIATED WITH OPERATIONS SHALL BE INCLUDED IN THE PAY ITEM FOR SALVAGED TOPSOIL, LUMP SUM.

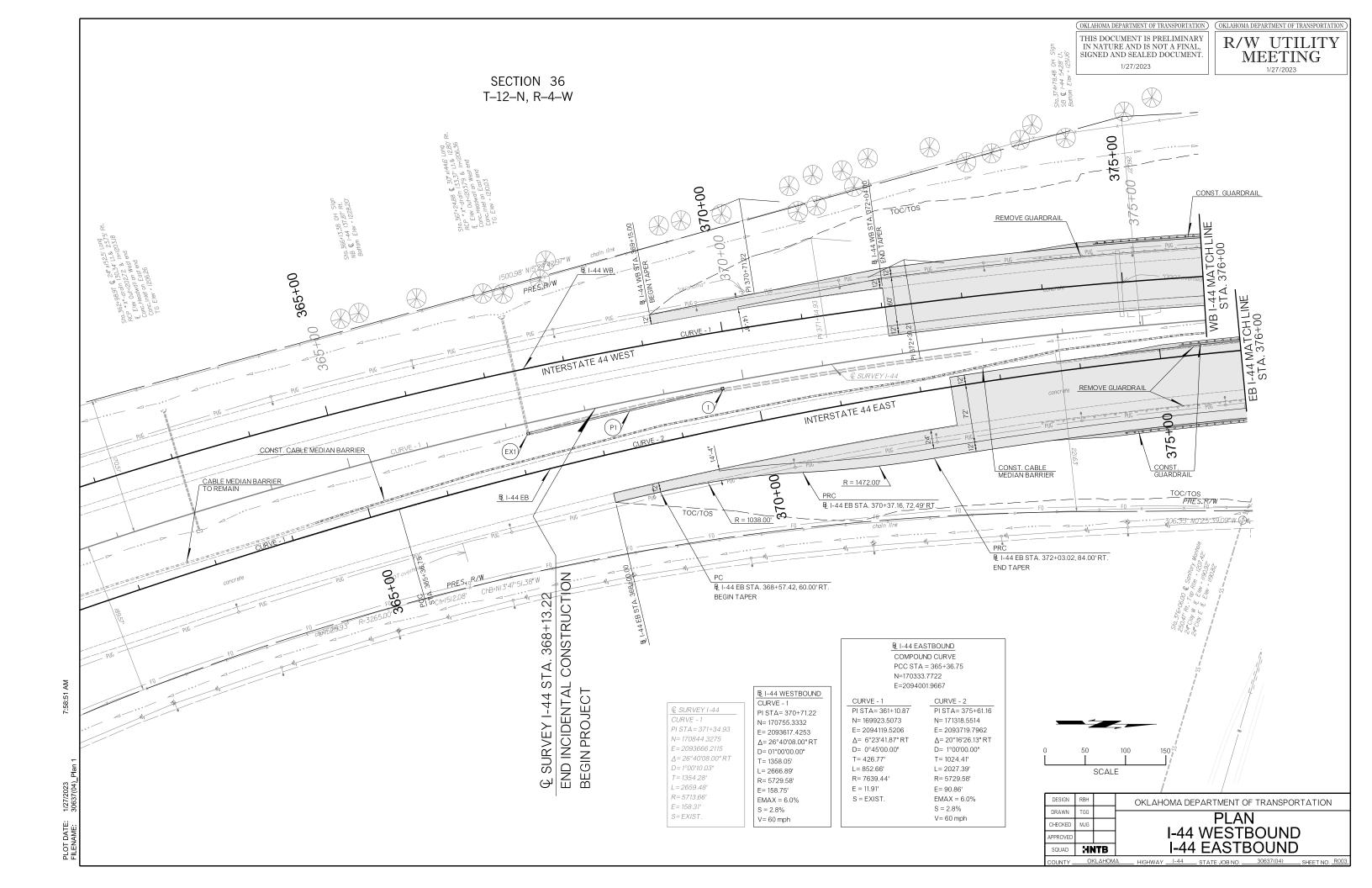
THE GRADING LINE AS SHOWN ON THE TYPICAL AND CROSS SECTIONS IS TO THE TOP OF THE TOPSOIL. EARTHWORK QUANTITIES WERE NOT ADJUSTED FOR SALVAGE AND THE TOPSOIL QUANTITY IS INCLUDED IN THE MASS LINE BALANCE.

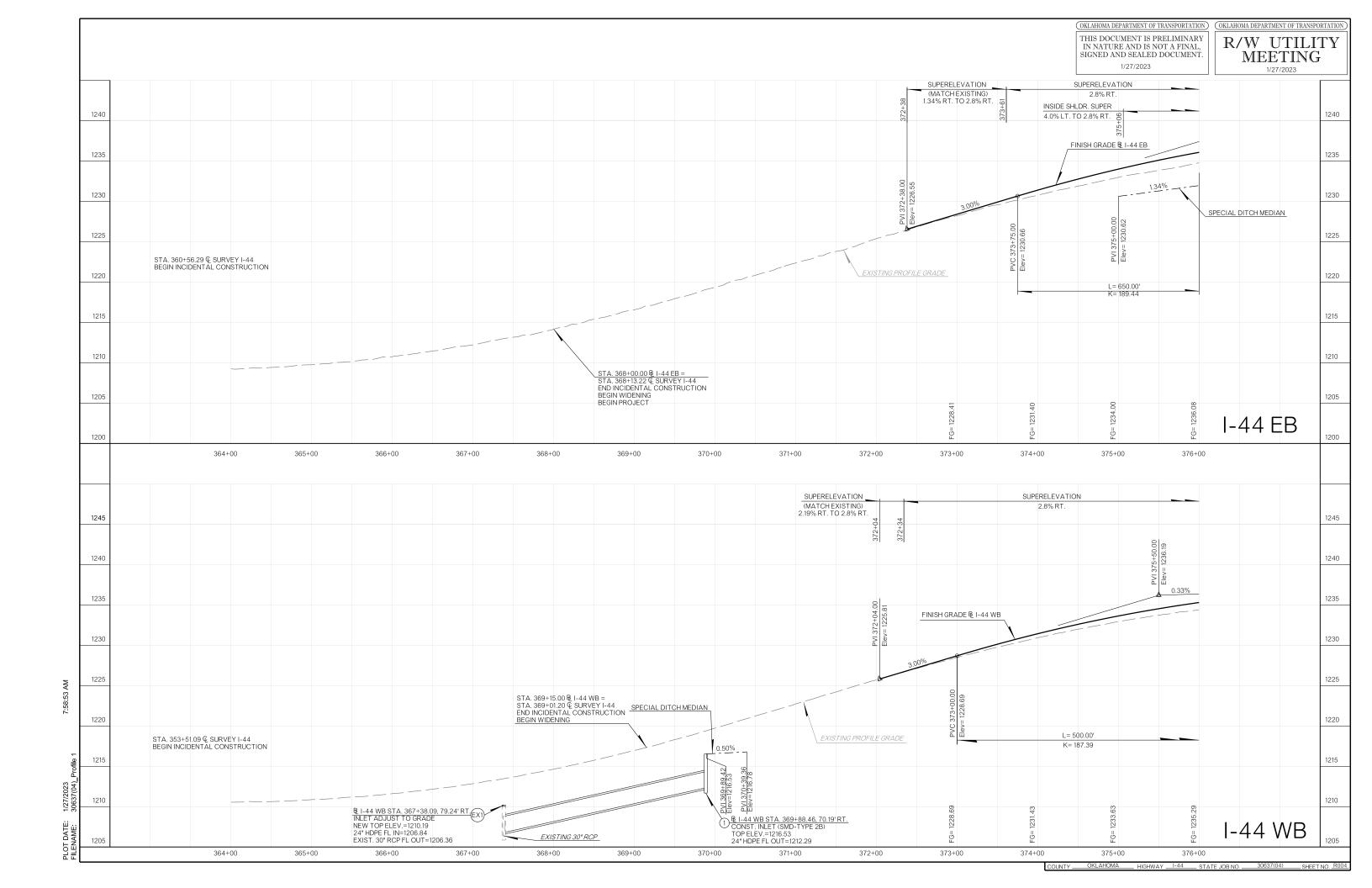
DESIGN	RBH		OKLAHOMA DEPARTMENT OF TRANSPORTATION		
DRAWN	TGG				
CHECKED	MJG		TVDIOAL OFOTION		
APPROVED			TYPICAL SECTION		
SQUAD	415	NTB			
COUNTY _	Oł	KLAHOM	A HIGHWAY 1-44 STATE JOB NO. 30637(04) SHEET NO. 0007		

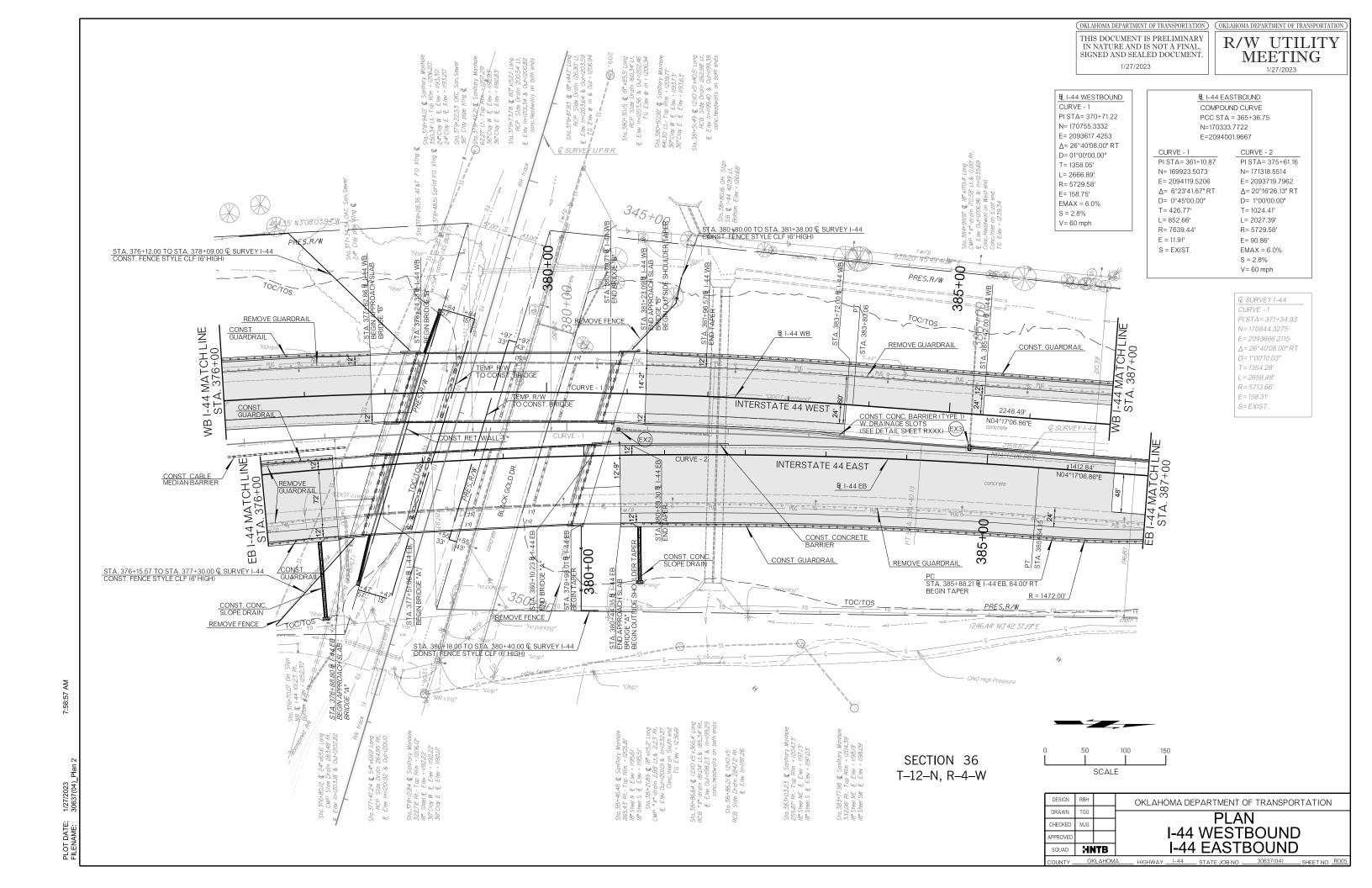


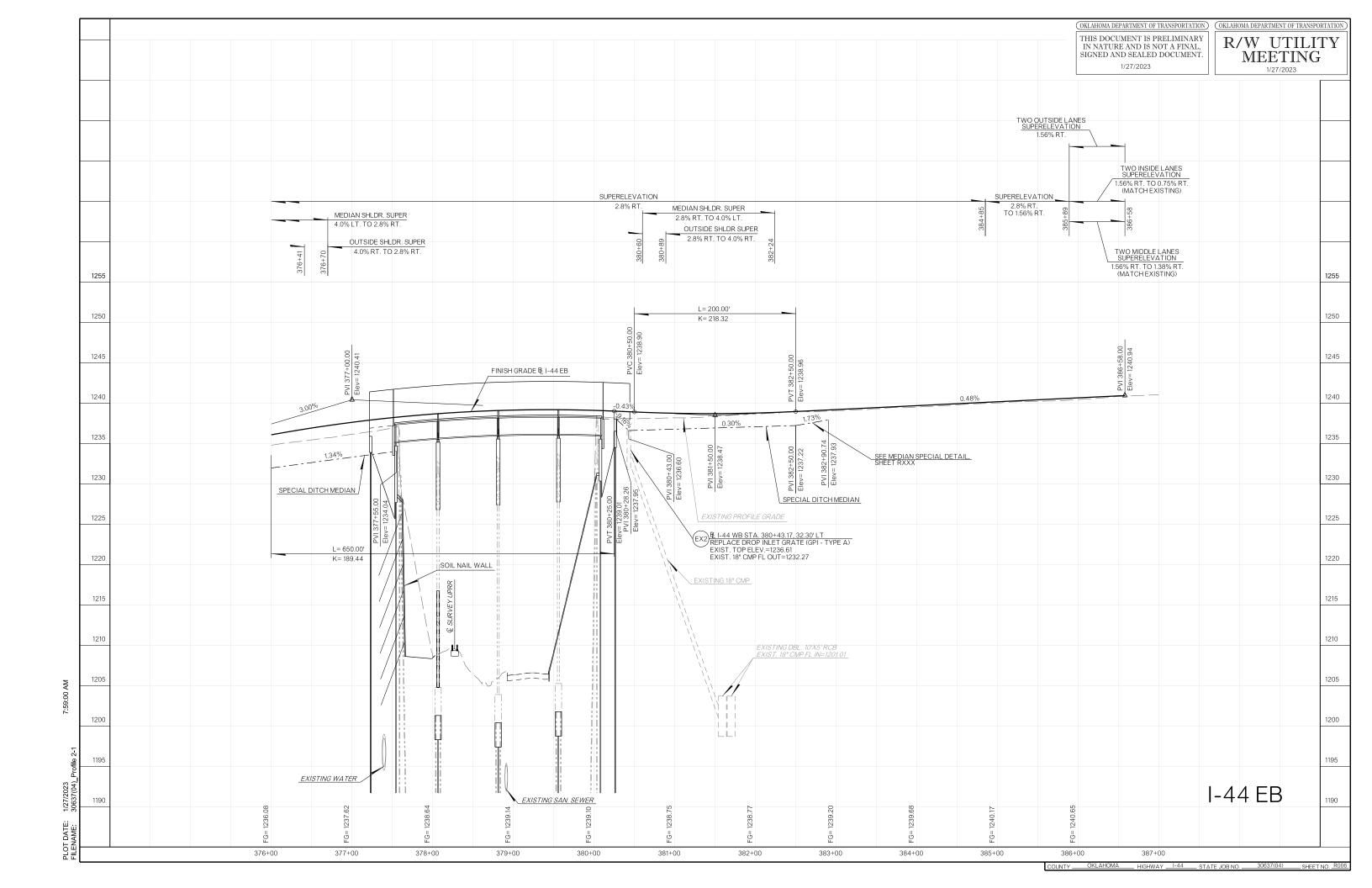


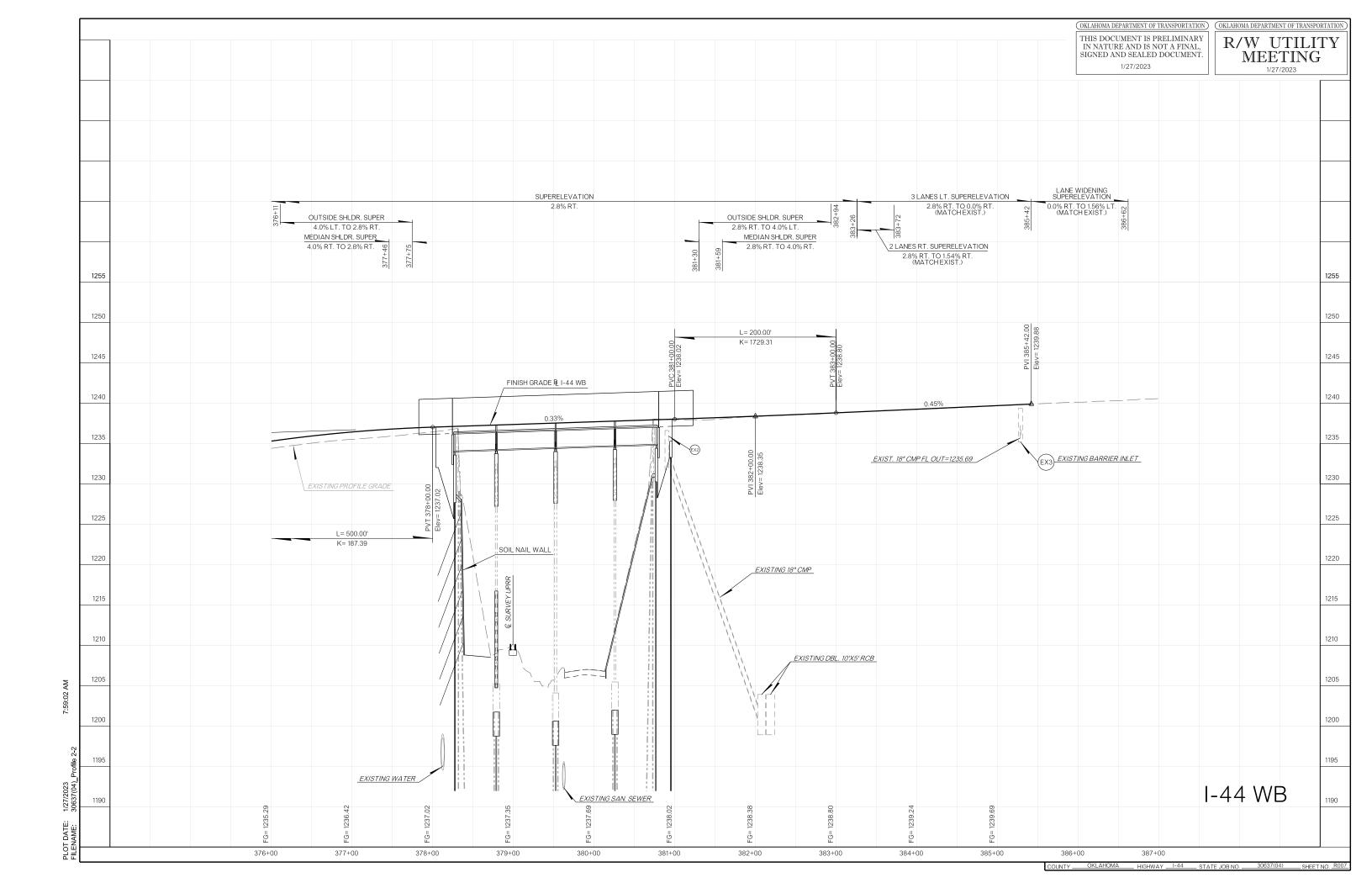


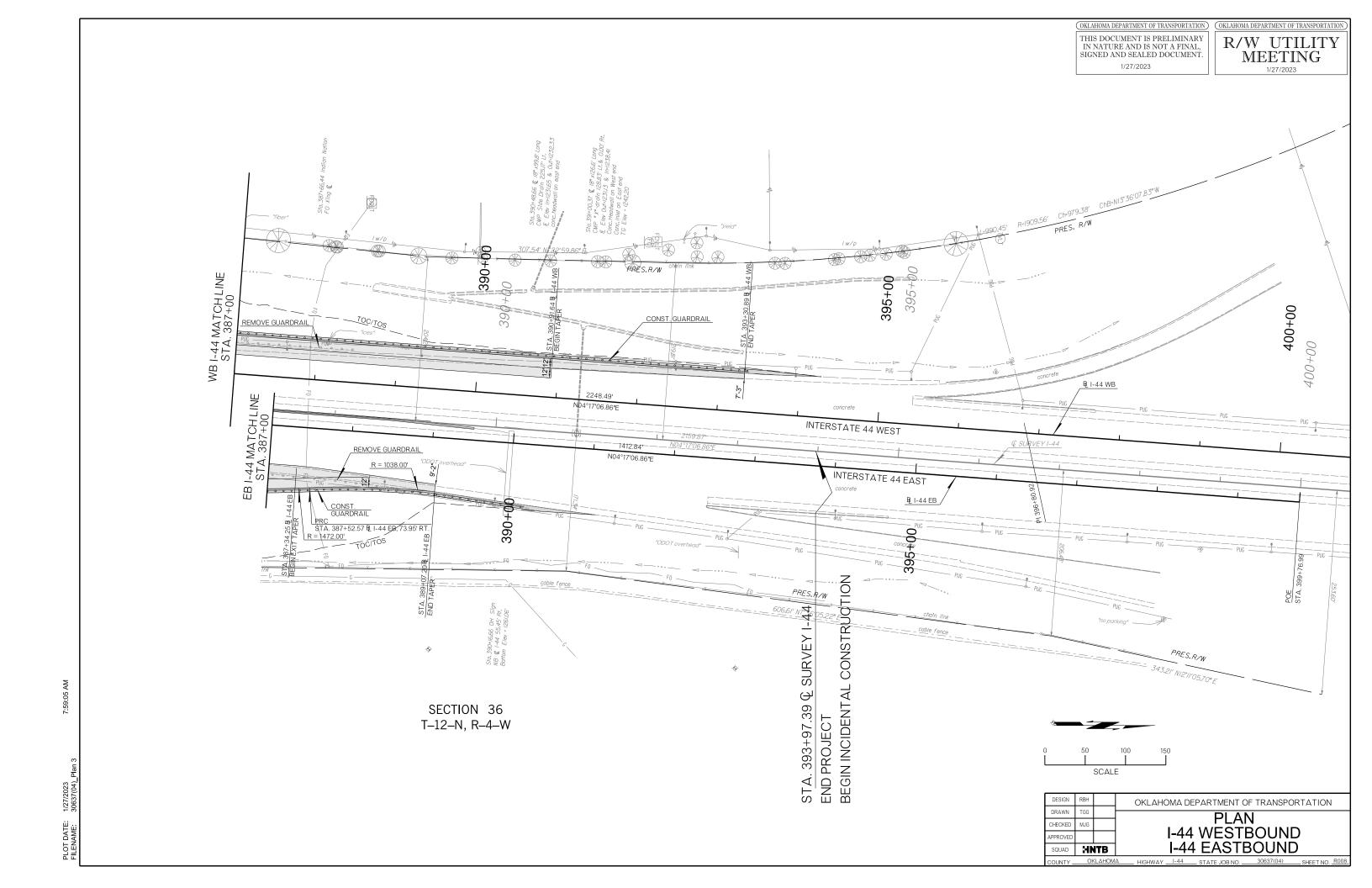


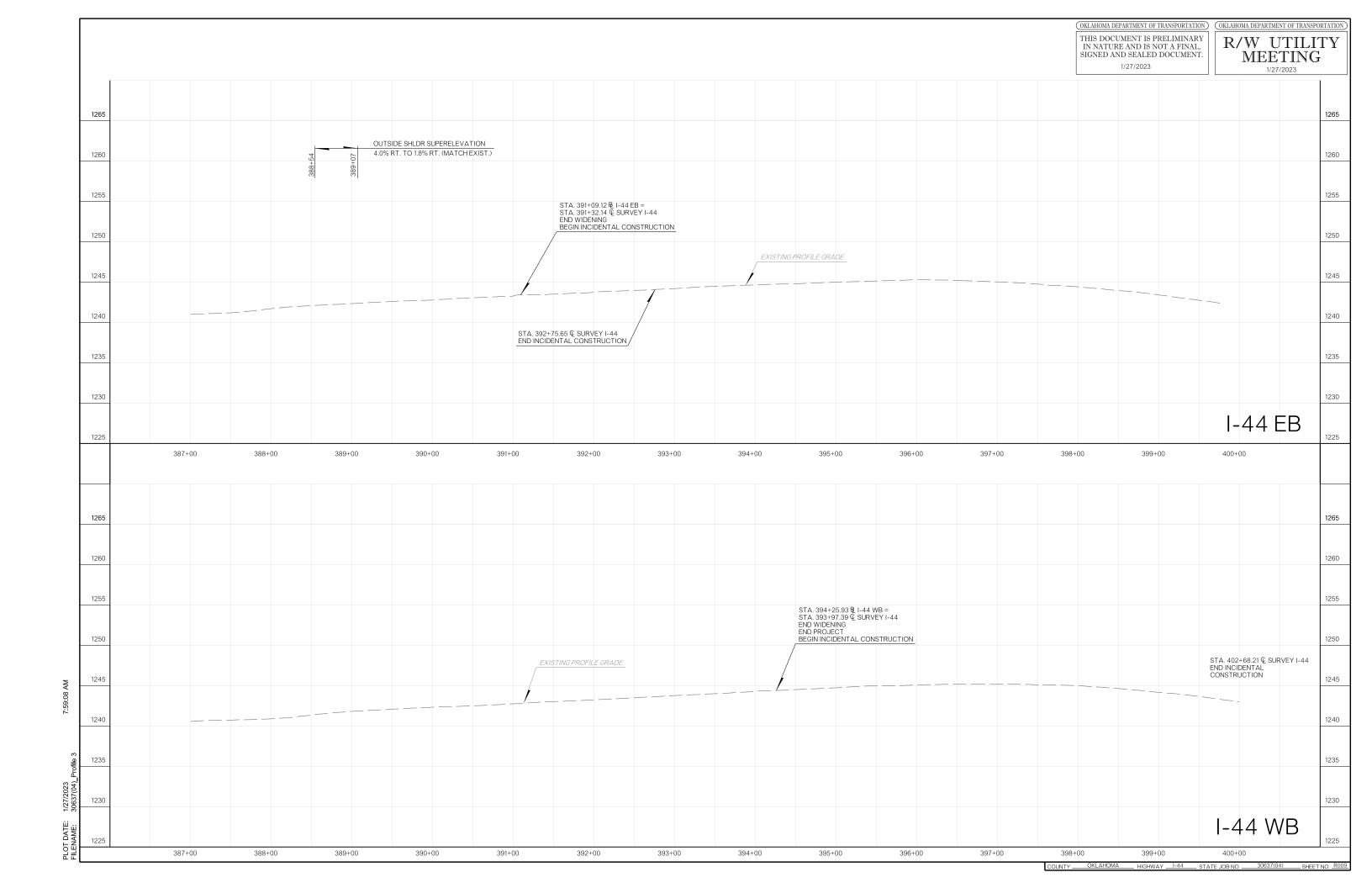








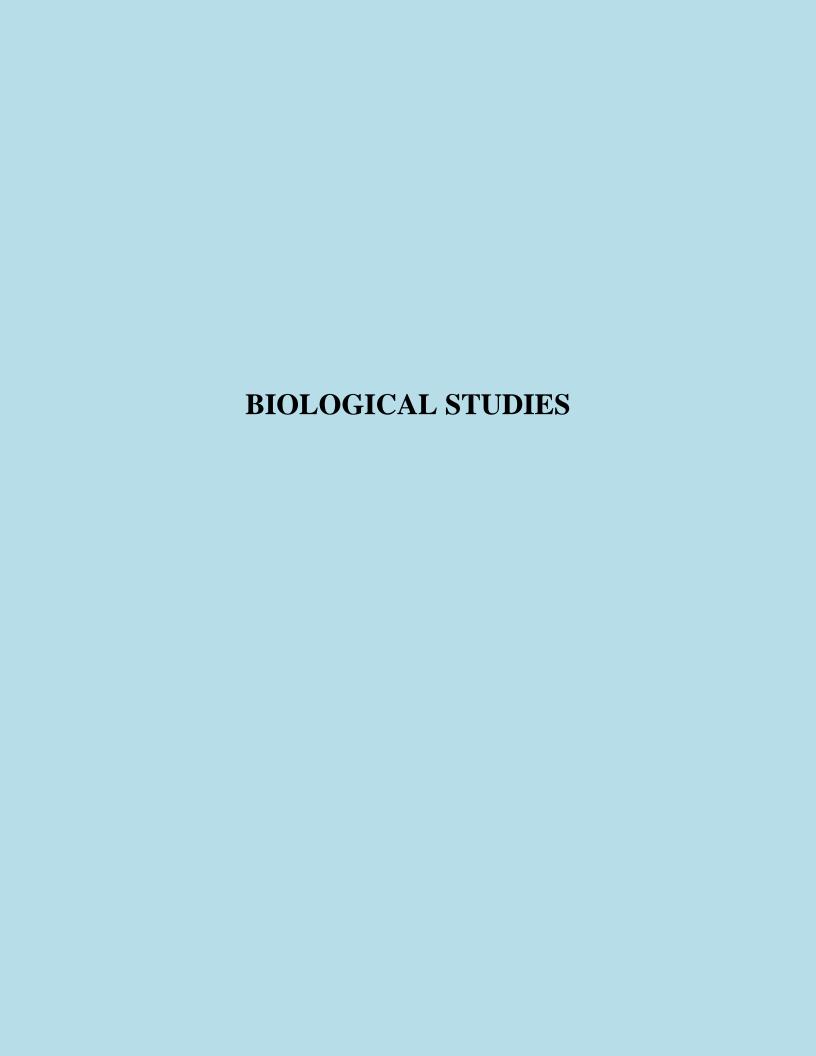




# SECTION 106 CULTURAL RESOURCES STUDIES

# ODOT CULTURAL RESOURCES PROGRAM SCREENED EXEMPTION PROJECT REVIEW

**County:** Oklahoma **Request Date:** 2/10/2021 JP No: 30637(04) **Completion Date:** 2/25/2021 **Staff CRP Reviewer:** Mike McKay **NEPA Project Manager:** Frank Guerrero **ODOT Division:** Div. 4 1. PROJECT DESCRIPTION: BRIDGE REHABILITATION - I-44: OVER THE UPAC RR, 0.7 MILES NORTH OF I-40. **Project specifications:** \_ existing pavement lines **XXX** existing R/W **XXX** previously disturbed soil other, describe: 2. CULTURAL RESOURCES REVIEW FOR PREVIOUSLY RECORDED HISTORIC PROPERTIES: **Archival Review:** XXX National Register of Historic Places (NRHP) List (Property has been listed on the NRHP) State Historic Preservation Office's (SHPO) Determination of Eligibility (DOE) List for the NRHP (Property has been determined eligible for listing on the NRHP)  $\overline{\mathbf{X}}\mathbf{X}\mathbf{X}$ Oklahoma Archeological Survey (OAS) Archeological site files Program Comment bridge Depression-era Bridges Programmatic Agreement Interstate Highway Exception XXXTribal Coordination Database Other: describe In accordance with the March 2005 ACHP Section 106 Exemption regarding effects to the Comments: Interstate Highway System, these bridges do not require documenting and review. **Results: XXX** No historic properties in the area of potential effect (APE) Historic properties in or adjacent to the APE Project subjected to field review: XXX No Yes 3. **RECOMMENDATIONS: XXX** Project has no potential to affect historic properties The ODOT Cultural Resources Program has completed a review of the Preliminary Plans dated November 11, 2020 for this project and has examined the SHPO's online DOE and NRHP files as well as the archaeological site files at the OAS. The proposed project was reviewed by an archaeologist who meets the Secretary of Interior Qualifications. Additionally, the project was reviewed during COVID-19 response and was conducted with the best available information. The proposed undertaking is, by nature, a project that has no potential to cause effects to historic properties as defined in 36 CFR 800.3(a)(1). Since there is no apparent potential to affect historic properties then no further work regarding cultural resources is recommended. Project requires review of final plans to ensure no affect to historic properties Project requires field investigations and consultation with reviewing agencies. Off-project avoidance notes



#### **BIOLOGICAL STUDIES TRACKING FORM**

NEPA Project Manager	Frank Guerrero
State or Local Government Project	State
USFWS TAILS #	02EKOK00-2021-SLI-1399
Original IPaC List	4/16/2021
Email used to request IpaC official species list	ptcrawford@ou.edu
Last Updated Species List Date	Click here to enter a date.
ROW	Click here to enter a date.
Let Date	FFY 2026
90 Day Prior to Let IpaC List	Click here to enter a date.
Duration expected	Click here to enter text.
Original Biological Assessment and Waters	Phillip Crawford
and Wetlands Report Prepared By:	
Most Recent Field Date:	4/8/2021
Original Report Date:	4/16/2021
USFWS Consultation Submittal:	No Effect All Species
USFWS Concurrence:	None required
Original Tracking Form Prepared by:	Phillip Crawford & Elizabeth Nichols
Original Tracking Form date:	4/21/2021
Update Reason	Click here to enter text.
Updated By Whom:	Click here to enter text.
Amended USFWS Consultation Submittal:	Click here to enter a date.
Amended USFWS Concurrence:	Click here to enter a date.
Tracking Form Updated By Whom:	Click here to enter text.
Tracking Form Updated Date:	Click here to enter a date.
ADD MORE LINES AS NEEDED FOR EACH	I TIME PROJECT IS UPDATED

Form Date: February 2021

#### **Project Name from Oracle**

I-44 Bridge rehabilitation over the U.P. Railroad and Black Gold Drive, approximately 0.7 mile north of I-40, in Oklahoma City, OK

Project Description
Bridge Rehabilitation

Check if any of the following is expected as part of the proposed action	
Work within the OHWM is expected	
Project is OFF-SET alignment	
Project is NEW alignment	
Project involves NO OFF EXISTING PAVEMENT work	
Project requires new ROW (permanent &/or temporary)	

#### 2. FEDERALLY LISTED SPECIES AND DESIGNATED CRITICAL HABITAT

Species	Listing Status	IPaC Check	Effect Determination for IPaC listed species
Red-cockaded Woodpecker	Endangered	if Yes	Choose an item.
Whooping Crane	Endangered		No Effect
Gray Bat	Endangered		
Indiana Bat			Choose an item.
	Endangered		Choose an item.
Ozark Big-eared Bat	Endangered		Choose an item.
Neosho Mucket	Endangered		Choose an item.
Ouachita Rock Pocketbook	Endangered		Choose an item.
Scaleshell Mussel	Endangered		Choose an item.
Winged Mapleleaf	Endangered		Choose an item.
Harperella	Endangered		Choose an item.
American Burying Beetle	Threatened		Choose an item.
Eastern Black Rail	Threatened		Choose an item.
Piping Plover	Threatened	$\boxtimes$	No Effect
Red Knot	Threatened	$\boxtimes$	No Effect
Northern Long-eared Bat	Threatened		Choose an item
Arkansas River Shiner	Threatened		Choose an item.
Leopard Darter	Threatened		Choose an item.
Neosho Madtom	Threatened		Choose an item.
Ozark Cavefish	Threatened		Choose an item.
American Alligator	Threatened		Choose an item.
Rabbitsfoot Mussel	Threatened		Choose an item.
Rattlesnake-master Borer Moth	Candidate		Choose an item.
Whooping Crane Critical Habitat	Designated		Choose an item.
Arkansas River Shiner Critical Habitat	Designated		Choose an item.
Leopard Darter Critical Habitat	Designated		Choose an item.
Neosho Mucket Critical Habitat	Designated		Choose an item.
Rabbitsfoot Critical Habitat	Designated		Choose an item.

	NEPA Footprint	Construction Footprint
Number of acres within the NEPA Study Footprint	24.56	Click here to
& Construction Footprint (if known)		enter text.

Bald Eagle Assessment	Not expected to impact	
Migratory Bird Assessment of	Migratory birds found nesting on transportation structures	
Transportation Structures		
Assessment	nesting habitat for migratory birds will be impacted	
Birds of Conservation Concern	Listed BCC may be impacted	
Interior Least Tern (MBTA)	not expected to impact	

Species (choose those that apply)	Seasonal Restriction Period
Migratory Birds: Swallows and Phoebes	March 1 – August 31
(NESTS PRESENT)	-

#### **Conservation Commitments**

**ODOT Commitment:** All operators, employees, and contractors will be made aware of all environmental commitments, including the following Plan Notes.

**Tree Removal Minimization Commitment:** In order to avoid impacts to USFWS Birds of Conservation Concern, the removal of trees and shrubs will be restricted to areas within the actual limits of construction, and all aspects of the project (e.g. temporary work areas, alignments) will be modified to avoid tree removal, if possible, during the design of the project. Tree removal will be limited to that specified in the project plans provided to contractors.

#### **Species Plan Notes**

**Non-Compliance:** Failure to implement the commitments specified in the Plan Notes can result in non-compliance issues on the project. Work activities may be suspended on the project, for an undetermined duration, while working with regulators to bring the project back into compliance. The contractor will not be compensated for time lost.

Water Quality Conservation: Appropriate Best Management Practices to minimize impacts from storm water discharges and sedimentation in streams, as established by the Oklahoma Department of Environmental Quality, shall be conscientiously implemented throughout the proposed construction periods, in order to minimize any potential impacts to any listed species. The effectiveness of erosion controls shall be maintained for the duration of construction activities. Hazardous materials, chemicals, fuels, lubricating oils, and other such substances shall be stored at least 100 feet outside of the ordinary high water mark (OHWM). Refueling of construction equipment shall also be conducted at least 100 feet from the OHWMs. Sediment and erosion controls shall be installed around staging areas to prohibit discharge of materials from these sites. Construction waste materials and debris shall be stockpiled at least 25 feet outside of the OHWMs, and these materials shall be removed and disposed of properly following completion of the project. Preventative measure must be taken to prohibit the discharge of contaminants into any surface waters.

Migratory Bird Note: Migratory birds are protected by the federal Migratory Bird Treaty Act. Many birds commonly use bridges and culverts for nesting. The nesting season for most migratory bird species extends from March 1 to August 31. Migratory bird nesting use of the I-44 UP RR bridge (NBI:18770) and an RCB 9STA.381+86.64) was observed. Painting, repair, retrofit, rehabilitation or demolition of the existing bridge and culvert shall be conducted between September 1, and February 28, when migratory bird nests are not occupied. If painting, repair, retrofit, rehabilitation or demolition cannot be completed between September 1 and February 28, the bridge and culvert shall be protected from new nest establishment prior to March 1, by means that do not result in bird death or injury. Options include the exclusion of adult birds from suitable nest sites on or within a structure by the placement of weather-resistant polypropylene netting with 0.25-inch or smaller openings, prior to March 1. Methods other than netting must be pre-approved by the ODOT Biologist.

Although no nests were observed on all other structures, the birds may occupy the structures in the future. The Resident Engineer shall contact the ODOT Biologist if any bird use of these structures is observed. If birds are observed then painting, repair, retrofit, rehabilitation or demolition of the existing bridges and culverts shall be conducted between September 1, and February 28 (when migratory bird nests are not occupied).

#### Oklahoma JP 30637(04)

# Waters and Wetlands Delineation Status Original delineation.

#### **Wetlands and Ponds**

<b>Total Number of Sites</b>	Water Body Type	Potential Jurisdiction Status	Acres within the NEPA Footprint
None	Choose an item.	Choose an item.	0

**Streams and Drainages** 

Total Number of sites	Water body name	USGS Designation	Potential Jurisdictional Status	Acres within the NEPA Footprint	Liner Feet within the NEPA Footprint
2	Unnamed drainage features	unmapped ephemeral drainages	Unlikely Jurisdictional	0.247	1866.9

# ENDANGERED, THREATENED AND CANDIDATE SPECIES, DESIGNATED CRITICAL HABITAT, BALD EAGLE AND MIGRATORY BIRD ASSESSMENTS

#### For

USFWS TA	USFWS TAILS # 02EKOK00-2021-SLI-1399						
Email used	Email used to request IPaC official species list ptc			ptcraw	ptcrawford@ou.edu		
County	Oklahoma	JP Number	30637(04)		Project Number	Not Provided	
Road Number	I-44	Water Body Name		N/A			
ROW Date	N/A	Let Date	FFY 20	26	Project Length	0.472 mile	
Project General Location Approximately 0.7 mile north of I-40, in Oklahoma City, OK				klahoma City, OK			
Project Statement I-44 Bridge rehabilitation over the U.P. Railroad and Black Go From Oracle			lroad and Black Gold Drive				

# Prepared for: Oklahoma Department of Transportation Environmental Programs Division 200 NE 21<sup>st</sup> Street Oklahoma City, OK 73105

#### Prepared by:

Biologist Name	Phillip Crawford
Company/Agency Name	ODOT Biological Studies Program at OU
Address	111 E. Chesapeake Street
City, State Zip	Norman, OK 73019

Report Date:	April 16, 2021
Field Survey Date	April 8, 2021
Field Survey Biologist(s)	Phillip Crawford

Form Date: February 2021

#### 1. PROJECT OVERVIEW

#### 1.1 Federal Nexus

This biological assessment, prepared by the above named Company/Agency for the Oklahoma Department of Transportation (ODOT), addresses the above named project in compliance with Section 7(c) of the Endangered Species Act (ESA) of 1973, as amended. Section 7 of the ESA requires that, through consultation with the U.S. Fish and Wildlife Service (Service), federal actions do not jeopardize the continued existence of any threatened, endangered, or proposed species or result in the destruction or adverse modification of critical habitat. This assessment evaluates the potential effects of the proposed transportation project on species that are federally listed under the ESA. Specific project design elements are identified that avoid or minimize adverse effects of the proposed project on listed species and designated critical habitat.

#### 1.2. Project Description

Bridge Rehabilitation

Description of the **existing** bridge/roadway facility and reason for proposed project

The existing I-44 northbound and southbound bridges over the U.P. Railroad and Black Gold Drive (NBI 18769 and NBI 19770) are 246.0 foot continuous steel stringer/girder span bridges with 73.7 foot wide decks and 68.0 foot wide approach roadways consisting of four 12 foot driving lanes and 10 foot paved shoulders. Recent inspections of the existing bridges (built in 1974) indicate that they are in need of repair; the bridges are "at risk" of becoming structurally deficient. The current Average Annual Daily Traffic (AADT) is 158570 vehicles per day (vpd) with a future 20 year AADT of 188210 vpd. The proposed construction will extend the useful life of the bridges.

#### Description of **proposed** improvements

The proposed construction will include the removal and replacement of portions of the concrete bridge deck and parapet, bearings, expansion joints, pier caps, abutments, approach slabs and slope drains. Concrete and epoxy resin repairs will be made to spalled areas and cracks in the abutments and piers, an elastomeric coating will be applied to the abutments, pier caps and the ends of beams, and a water repellant will be applied to the remaining areas of the abutments, wing walls and pier caps. Portions of the approach roadway will be reconstructed, and the existing guardrail will be replaced on widened (to 12 feet) shoulders. The existing facility will remain open to through traffic during the proposed construction, with crossovers constructed in the median. No new rights-of-way will be required to make the proposed improvements.

<u>Check if any of the following is expected as part of the proposed action</u>	
Work within OHWM is expected	
Project is OFF-SET alignment ☐ or NEW alignment	
Project involves NO OFF EXISTING PAVEMENT work	
Project requires new ROW (permanent &/or temporary)	

1.3. Project Area and Setting

Project Location Environmen Footprint		Environmental Footprint	Study	<b>Ecoregion &amp; Game Type</b>	
Section Range & Township	Lat/Long NAD 83)	<u>Dimensions</u>	Acreage	Level IV Ecoregion (Woods et al. 2005)	Game Type (Duck and Fletcher 1943)
S36 T12N R04W	35.4709°N 97.5794°W	Encompasses the occupied I- 44 R/W for 0.472 mile	24.56	Cross Timbers Transition	Tallgrass Prairie

#### **Action Area:**

The project action area includes those areas directly affected by construction activities within the project construction footprint.

#### 2. FEDERALLY LISTED SPECIES AND DESIGNATED CRITICAL HABITAT

Species Range and Occurrence Evaluation (Check  $\sqrt{ }$  all that apply)

Species	IPaC <sup>1</sup>	Watershed <sup>2</sup>	Water Body <sup>3</sup>	Records <sup>4</sup>
	Check if Yes	Check if YES	Check if Yes	Check if Yes
Red-cockaded Woodpecker				
Whooping Crane				
Gray Bat				
Indiana Bat				
Ozark Big-eared Bat				
Neosho Mucket				
Ouachita Rock Pocketbook				
Scaleshell Mussel				
Winged Mapleleaf				
Harperella				
American Burying Beetle				
Eastern Black Rail				
Piping Plover	$\boxtimes$			
Red Knot	$\boxtimes$			
Northern Long-eared Bat				
Arkansas River Shiner				
Leopard Darter				
Neosho Madtom				
Ozark Cavefish				

Species	IPaC <sup>1</sup>	Watershed <sup>2</sup>	Water Body <sup>3</sup>	Records <sup>4</sup>
	Check if Yes	Check if YES	Check if Yes	Check if Yes
American Alligator				
Rabbitsfoot Mussel				
Rattlesnake-master Borer Moth				
<sup>1</sup> Species is on the Proposed Project's IF <sup>2</sup> Action Area is within a watershed asso <sup>3</sup> Action Area includes an occupied wate <sup>4</sup> Project site within 5 miles of known re	ciated with occupied or body	d water bodies		

Designated or Proposed Critical Habitat
 Action Area includes Designated Critical Habitat (Check √ if Yes)

 Whooping Crane
 □

 Arkansas River Shiner
 □

 Leopard Darter
 □

 Neosho Mucket
 □

 Rabbitsfoot
 □

Action area is adjacent to McAlester Army Ammunition Plant or Camp Gruber/Cherokee WMA	
All of part of the action area is within the 10 mile <b>gray bat</b> priority area (ODOT will check) All of part of the action area is within the 2 mile <b>gray bat</b> priority area (ODOT will check)	
Action area is within what percentage <b>Whooping Crane</b> migratory corridor Action area is within 15 miles of Salt Plains NWR, Hackberry Flat, or Foss Reservoir.	95% □
Action area is within the historic range of the <b>Red-cockaded Woodpecker</b>	
Action area is within 10 miles of the McCurtain County Wilderness Area	
Action area is within 10 miles of the Pushmataha Wildlife Management Area	

#### 3. ENVIRONMENTAL BASELINE

#### 3.1. Ecological Processes and Conditions

Soils (Use Soil Map of Oklahoma by Carter and Gregory 2008)

	- · · · · · · · · · · · · · · · · · · ·
Soil Class	CENTRAL ROLLING RED PRAIRIES
Soil Name	Port-Dale-Yahola-Gaddy-Gracemore-McClain-Reinach
Soil Type	Mollisols and Entisols
Soil Characteristics	Very deep soils on nearly level slopes (1%)

Soil Class	SAND HILLS
Soil Name	Eufaula-Dougherty-Konawa
Soil Type	Alfisols
Soil Characteristics	Very deep loamy sandy well drained and slightly acid soils on
	moderately steep slopes (11%)

#### Climate (Use Woods et al. 2005)

Precipitation	Mean annual inches	29-38
Growing Season	Number of days	205-225
Mean Temperatures	Summer min/max	70/94
	Winter min/max	20/46 (north and west) to
		26/49 (south)

#### River System

No aquatic features are mapped within the action area on the Oklahoma City (3509745) 7.5 minute topographic quad map.

#### Land Use and Land Ownership

From Woods et al. 2005	The most common use of land is for the production of livestock, alfalfa, small grains and soybeans	
From Field investigation	The study area is confined to the existing rights-of-way of 44, which are owned by the State of Oklahoma.	

#### Terrestrial and Aquatic Community Descriptions (based on field site visit)

The study area occurs in a commercially-developed area in west Oklahoma City and is occupied by the existing paved facilities and maintained rights-of-way. The maintained right-of-way bordering the study area appears to be frequently mowed, and is vegetated with native and introduced grasses and forbs, including bermuda grass (*Cynodon dactylon*), silver bluestem (*Bothriochloa saccharoides*), Johnsongrass (*Sorghum halepense*), hairy crabgrass (*Digitaria sanguinalis*), downy brome (*Bromus tectorum*), rescuegrass (*Bromus catharticus*), green bristlegrass (*Setaria viridis*), dallisgrass (*Paspalum dilatatum*), white clover (*Trifolium repens*), corn gromwell (*Buglossoides arvensis*), garden vetch (*Vicia sativa*), spiny sow thistle (*Sonchus asper*), southern pepperwort (*Lepidium austrinum*), blue fieldmadder (*Sherardia arvensis*), henbit deadnettle (*Lamium amplexicaule*), redstem stork's bill (*Erodium cicutarium*), Carolina geranium (*Geranium carolinianum*), curly dock (*Rumex crispus*), common dandelion (*Taraxacum officinale*), thymeleaf sandwort (*Arenaria serpyllifolia*) and tuberous desert-chicory

(Pyrrhopappus grandiflorus). Saplings and small trees of American elm (Ulmus americana), sugarberry (Celtis laevigata), eastern redcedar (Juniperus virginiana), white mulberry (Morus alba), eastern redbud (Cercis canadensis) and eastern cottonwood (Populus deltoides) occur in the fence rows on the west side of the study area. A small area of brushy woodland on the southwest corner of the existing bridges appears to have been recently cleared and graded (sometime after January 2019 per GoggleEarth Streetview imagery). No aquatic features are mapped within the study area. An ephemeral stream crosses under I-44 via a twin reinforced concrete box (RCB) just north of the existing I-44 bridges over the railroad, and a second ephemeral drainage feature crosses under the railroad and Black Gold Drive via a reinforced concrete pipe (RCP) just west of I-44. The study area is bordered by commercial and State Fair Park development and a small golf course.

#### 3.2 Species Habitat Analysis

Pedestrian survey of entire NEPA study footprint ( <u>including 300-foot work zone buffer in karst areas</u> )	
Bridge/Structure inspected for bat use (Complete the Bridge Inspection Form)	[

SPECIES	HABITAT	
Whooping Crane	Shallowly-submerged sandbars in large river channels occur within the 0.25 miles of the NEPA Environmental Study Footprint.	
	If within the 75% migration corridor, provide the number of acres of emergent wetlands that occur within the <b>NEPA Environmental Study Footprint</b> .	enter acres.
	Croplands suitable for foraging occur within the <b>0.25 miles of the NEPA Environmental Study Footprint</b> and is within the 95% migration corridor.	
Piping Plover	Sparsely vegetated sandy or gravelly shorelines and islands associated with the major river systems occur within the <b>0.25 miles of the NEPA Environmental Study Footprint.</b>	
	Salt flats or mudflats associated with reservoirs occur within the 0.25 miles of the NEPA Environmental Study Footprint.	
Red Knot	Mudflats associated with reservoirs occur within the <b>0.25 miles of the NEPA Environmental Study Footprint.</b>	

#### 4. ANALYSIS OF EFFECTS

4.1	Direct	Effects
4.	1711'60'1	raiects.

Species/ Resource	Habitat impacts expected from project activities	Describe specific ACTIONS of the project and the results of those actions on species habitats, including indirect impacts to prey or drinking water, as well as improvements to habitat as a result of specific actions.  If habitat within the action area identified above will not be impacted, describe why.
None		

#### **4.2** Indirect Effects

**Long-term habitat alterations** 

Species/ Resource	Identify long-term, permanent changes in habitat
None	

Indirect la	and use impacts	
None		

None.		

#### 4.3 Interrelated and Interdependent Actions and Activities

None.
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<b>USFWS TAILS Number:</b>	02EKOK00-2021-SLI-1399
<b>ODOT Project JP Number:</b>	30637(04)

	CONCI	LUSION		ESA SECTION 7		NOTES AND DOCUMENTATION Check √ all that apply			
SPECIES / DESIGNATED CRITICAL HABIT	Species Habitat present within the action area	Project Activities expected to impact habitat	No Effect	May affect, not likely to adversely affect	May affect, Likely to adversely affect	Field Studies	ONHI database / ABB	USFWS occupied waterbodies & watersheds	Whooping Crane Migration Corridor
Whooping Crane			$\boxtimes$			$\boxtimes$		$\boxtimes$	$\boxtimes$
Piping Plover			$\boxtimes$			$\boxtimes$	$\boxtimes$		
Red Knot			$\boxtimes$			$\boxtimes$	$\boxtimes$		

#### **CONCLUSIONS**

No Effect	Whooping Crane, Piping Plover, Red Knot
May affect, not likely to adversely affect	
May affect, likely to adversely affect	

#### RECOMMENDED AVOIDANCE AND MINIMIZATION MEASURES

None required

#### 5. BALD AND GOLDEN EAGLE PROTECTION ACT ASESSMENT

#### **5.1.** Bald Eagle Assessment

The Bald Eagle (*Haliaeetus leucocephalus*) is a large predatory bird protected by the Bald and Golden Eagle Protection Act and the Migratory Bird Treaty Act. Activities that would disturb eagles are prohibited under the Bald and Golden Eagle Protection Act. "Disturb" means to agitate an eagle to the degree that causes or is likely to (1) cause injury, (2) interfere with breeding, feeding or sheltering behavior, or (3) nest abandonment.

Potential Bald Eagle Habitat Present	w/in NEPA Footprint	w/in 660 ft Buffer of NEPA Footprint	DO NOT LEAVE BLANK		
Presence of Cottonwood, Sycamore, Pecan or Pine			Few small cottonwoods and pines in golf course within the buffer.		
Open foraging areas with large trees			Open large parking lots and graded areas but no large trees.		
Distance to closest perennial water body	River or Lake Stream or Pond	1 mile; 5 miles NA	Oklahoma River 1 mile south; Lake Overholser 5 miles east.		
Potential Bald Eagle Nests Observed			None observed		
Bald Eagles Observed in the general vicinity			None observed		
General Description of Bald Eagle Nesting Habitat and Impact Determination, within the NEPA Footprint and within 660-ft of the NEPA Footprint	No large trees suitable for nesting by Bald Eagles occur within the study area or buffer; no good aquatic foraging habitat occurs in the vicinity of the project site, although a few small ponds occur on a nearby golf course.				
Station #s for Buffered Bald Eagle Habitat	NA				

#### 6. MIGRATORY BIRD TREATY ACT (MBTA) ASSESSMENT

#### **6.1** Structure Assessment

Cliff Swallows (*Petrochelidon pyrrhonota*) and Barn Swallows (*Hirundo rustica*) are small colonial and semi-colonial nesting birds protected by the federal Migratory Bird Treaty Act. Barn Swallows use man-made structures for nesting and live in close association with humans. Both species commonly use bridges and culverts in Oklahoma for nesting. Other migratory birds can also nest on transportation structures.

Identify <u>ALL</u> structures including pipe culverts and whether	Approx.	Approx.	Approx.		
positive or negative for migratory birds (identify named	Number	Number	Number		
streams where possible rather than just FS#). Provide	of Cliff	of Barn	of Eastern		
shapefiles and map of structures identifying pos/neg swallow	Swallow	Swallow	Phoebe		
structures.	Nests	Nests	Nests		
I-44 U.P. Railroad bridge NBI 18769	0	0	0		
I-44 U.P. Railroad bridge NBI 18770	0	2	0		
		remnants			
I-44 RCB at Sta. 381+86.64	0	4	0		
Black Gold Drive RCP side drain at Sta. 379+73.78	0	0	0		
Other MB and Nests Observed None.					
Based on existing plans, no work on suitable drainage structur	es will occu	ır			

In order to avoid impacts to migratory birds, if structures are being used by these birds, any activities that may destroy active nests, eggs or birds shall be completed between September 1, and February 28, when nests are not occupied. If seasonal avoidance cannot be accomplished, structures shall be protected from new nest establishment prior to March 1, by means that do not result in death or injury to these birds.

#### **6.2** Birds of Conservation Concern

Species Identified on IPaC list	Breeding Season
American Golden-plover Pluvialis dominica	Breeds elsewhere
Harris's Sparrow Zonotrichia querula	Breeds elsewhere
Hudsonian Godwit Limosa haemastica	Breeds Apr 1 to Jul 31
Lesser Yellowlegs Tringa flavipes	Breeds elsewhere
Red-headed Woodpecker Melanerpes	Breeds May 10 to Sep 10
erythrocephalus	
Semipalmated Sandpiper Calidris pusilla	Breeds Apr 1 to Jul 31
Willet Tringa semipalmata	Breeds Apr 20 to Aug 5

The existing right-of-way and adjacent areas of very heavily disturbed graded land and commercial development would provide (at best) very poor habitat for any of these species. Very little woody vegetation remains within the study area, but a few small trees occur within the footprint to the west of the existing I-44 bridges; these small trees might provide perching and nesting habitat for the Red-headed Woodpecker. No impacts to any other of the cited species are likely to occur.

In order to avoid impacts to USFWS Birds of Conservation Concern, the removal of trees and shrubs will be restricted to areas within the actual limits of construction, and all aspects of the project (e.g. temporary work areas, alignments) will be modified to avoid tree removal, if possible.

#### 6.3 Interior Least Tern

Sparsely vegetated islands or sandbars along large rivers, with nearby areas of shallow	
water, occur within the 0.25 miles of the NEPA Environmental Study Footprint.	
No suitable loafing, foraging or nesting habitat for this species occurs within 0.25 mile	of the study
area. There are no ONHI records of Interior Least Terns in the project vicinity.	

#### 7. REFERENCES:

Carter, B. J. and M. S. Gregory. 2002. General soil map of Oklahoma. In: Geology and Earth Resources of Oklahoma. K.S. Johnson et al. (eds.) Educational Publication No. 1. Oklahoma Geological Survey. Norman, OK.

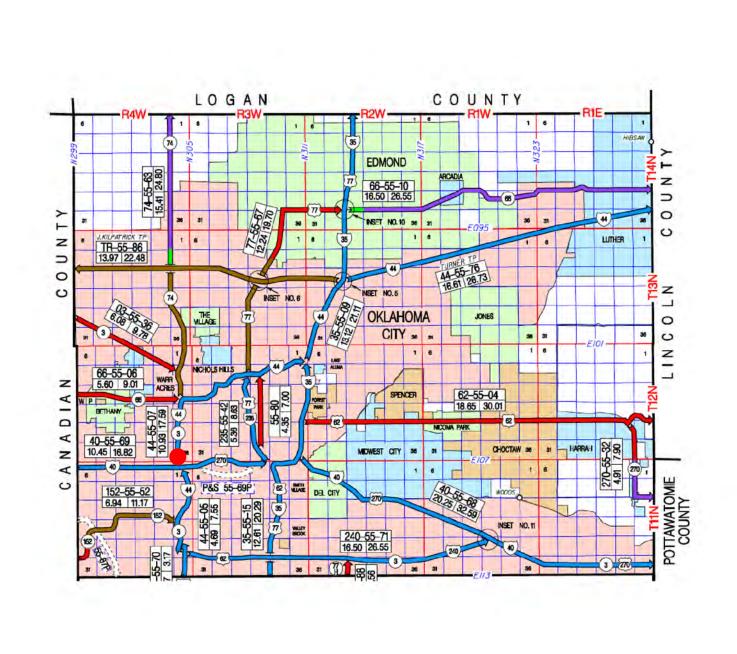
Duck, L. G., and J. B. Fletcher. 1943. A game type map of Oklahoma. A Survey of the Game and Furbearing Animals of Oklahoma. Oklahoma Department of Wildlife Conservation, Oklahoma City, Oklahoma.

Oklahoma Natural Heritage Inventory. 2021. Element Database. Oklahoma Natural Heritage Inventory, Oklahoma Biological Survey, Norman OK.

U.S. Fish and Wildlife Service 2010. Federally-listed aquatic and aquatic dependent species watersheds of Oklahoma. USFWS Oklahoma Ecological Services Field Office, April 2010.

Woods, A. J., J. M. Omernik, D. R. Butler, J. G. Ford, J. E. Henley, B. W. Hoagland, D. S. Arndt and B. C. Moran. 2005. Ecoregions of Oklahoma. (2 sided color poster with map, descriptive text, summary tables, and photographs). U.S. Geological Survey, Reston, VA. Scale 1:1,250,000.

#### 8. FIGURES



## Figure 1. Control Section Map



**Project Site** 



Oklahoma County J/P 30637(04)

Source: State of Oklahoma Department of Transportation



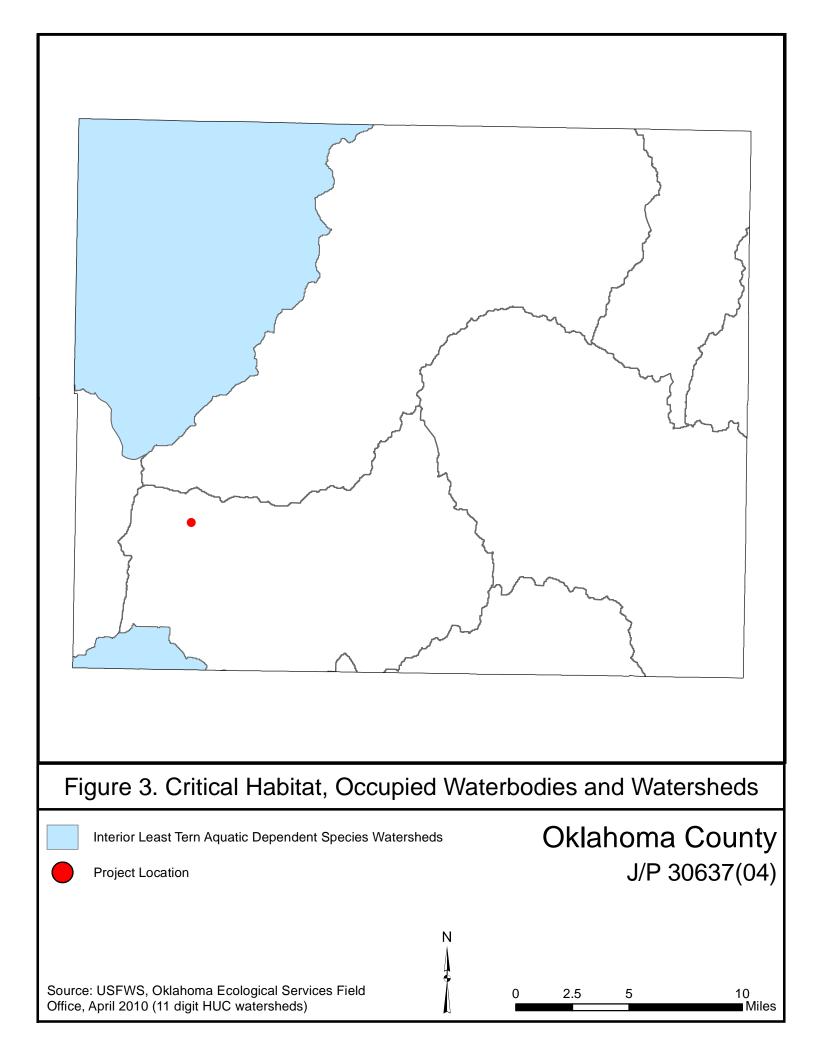
Figure 2. Study Area and Action Area Map

Study Area and Action Area

N

Oklahoma County J/P 30637(04)

) 260 520 1,040 Fee



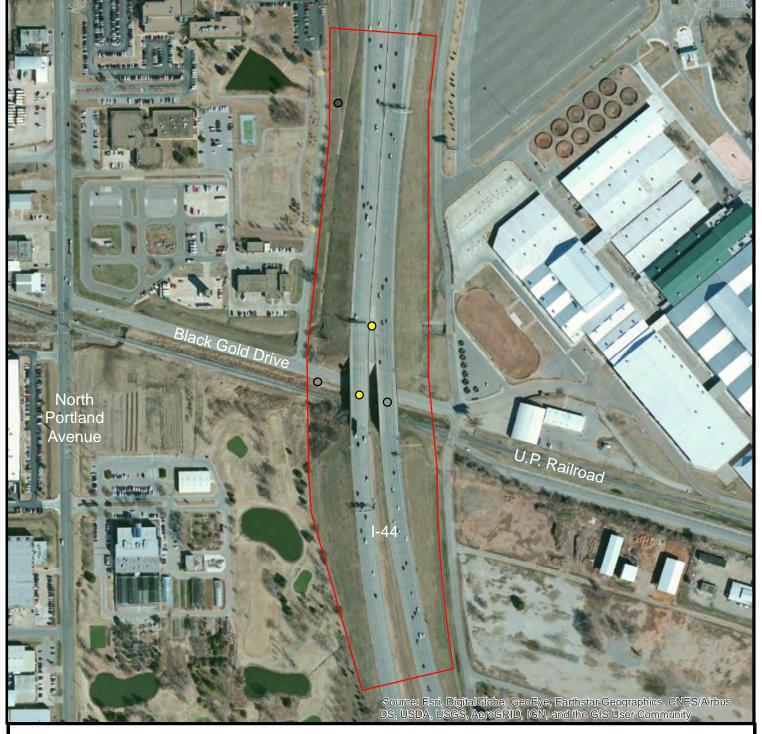


Figure 4. Swallow nest locations

Oklahoma County Study Area J/P 30637(04) Barn and/or Cliff Swallow nest location Suitable swallow nest site without swallow nests Structure not suitable for swallow nests

300 600 150 ■ Feet

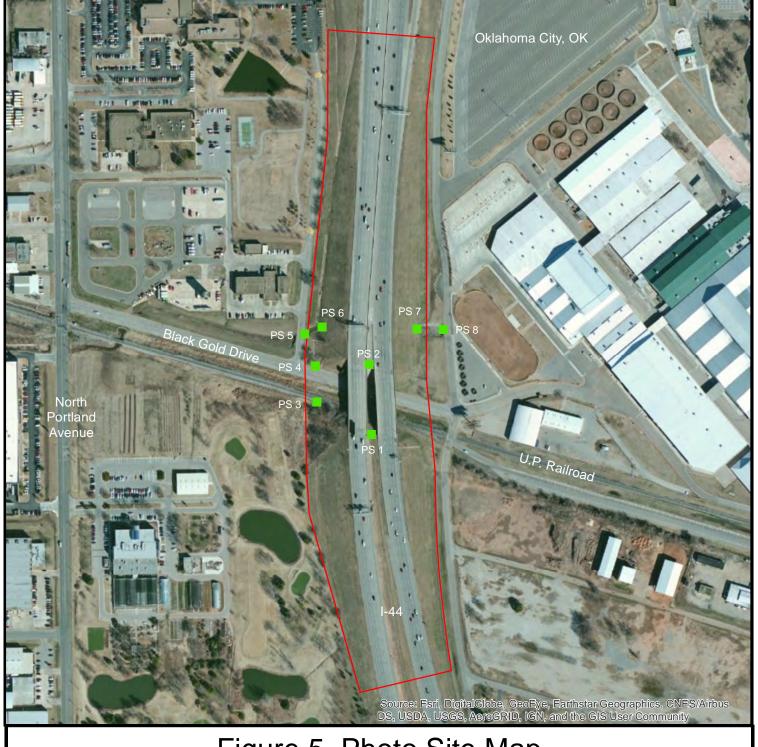


Figure 5. Photo Site Map

Study Area
Photo Site

Oklahoma County J/P 30637(04)

> 0 245 490 980 Feet



Photo Site 1 (PS 1): Existing R/W, looking south from the I-44 median at the top of the south slope wall.



PS 2: Existing R/W, Black Gold Drive and U.P. Railroad, looking south from the I-44 median at the top of the north slope wall.



PS 3: Ephemeral drainage swale, looking south from the south side of the U.P. RR; vegetation has been recently (after January 2019) cleared from this area.



PS 1: Existing R/W, U.P. Railroad and Black Gold Drive, looking north from the I-44 median at the top of the south slope wall.



PS 2: Existing R/W, looking north from the I-44 median at the top of the north slope wall.



PS 4: Ephemeral drainage swale, looking north from the north side of Black Gold Drive.



PS 5: Ephemeral stream, looking NE from an RCB that carries the feature under a side road; the I-44 RCB that serves the stream is visible.



PS 7: Ephemeral stream, looking east from the east end of the RCB that carries the feature under I-44.



PS 6: Ephemeral stream, looking SW from the west end of the RCB that carries the feature under I-44.



PS 8: Ephemeral stream, looking west from an RCB that carries the feature under a side road; the I-44 RCB is visible in the center of the image.



### United States Department of the Interior



#### FISH AND WILDLIFE SERVICE

Oklahoma Ecological Services Field Office 9014 East 21st Street Tulsa, OK 74129-1428

Phone: (918) 581-7458 Fax: (918) 581-7467 http://www.fws.gov/southwest/es/Oklahoma/

In Reply Refer To: April 16, 2021

Consultation Code: 02EKOK00-2021-SLI-1399

Event Code: 02EKOK00-2021-E-03675

Project Name: OKLAHOMA COUNTY JP 30637(04)

Subject: List of threatened and endangered species that may occur in your proposed project

location or may be affected by your proposed project

#### To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Non-federal entities conducting activities that may result in take of listed species should consider seeking coverage under section 10 of the ESA, either through development of a Habitat Conservation Plan (HCP) or, by becoming a signatory to the General Conservation Plan (GCP) currently under development for the American burying beetle. Each of these mechanisms provides the means for obtaining a permit and coverage for incidental take of listed species during otherwise lawful activities.

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan

(http://www.fws.gov/windenergy/eagle\_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit through our Project Review step-wise process <a href="http://www.fws.gov/southwest/es/oklahoma/OKESFO%20Permit%20Home.htm">http://www.fws.gov/southwest/es/oklahoma/OKESFO%20Permit%20Home.htm</a>.

#### Attachment(s):

Official Species List

- USFWS National Wildlife Refuges and Fish Hatcheries
- Migratory Birds
- Wetlands

## **Official Species List**

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Oklahoma Ecological Services Field Office 9014 East 21st Street Tulsa, OK 74129-1428 (918) 581-7458

#### **Project Summary**

Consultation Code: 02EKOK00-2021-SLI-1399 Event Code: 02EKOK00-2021-E-03675

Project Name: OKLAHOMA COUNTY JP 30637(04)

Project Type: BRIDGE CONSTRUCTION / MAINTENANCE

Project Description: I-44 Bridge rehabilitation over the U.P. Railroad and Black Gold Drive,

0.7 mile north of I-40, in Oklahoma City, OK

#### **Project Location:**

Approximate location of the project can be viewed in Google Maps: <a href="https://www.google.com/maps/@35.47125475,-97.57942456012137,14z">https://www.google.com/maps/@35.47125475,-97.57942456012137,14z</a>



Counties: Oklahoma County, Oklahoma

#### **Endangered Species Act Species**

There is a total of 3 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an
office of the National Oceanic and Atmospheric Administration within the Department of
Commerce.

#### **Birds**

NAME STATUS

#### Piping Plover Charadrius melodus

Threatened

 $Population: [At lantic \ Coast \ and \ Northern \ Great \ Plains \ populations] \ - \ Wherever \ found, \ except$ 

those areas where listed as endangered.

There is **final** critical habitat for this species. The location of the critical habitat is not available.

Species profile: https://ecos.fws.gov/ecp/species/6039

#### Red Knot Calidris canutus rufa

Threatened

No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/1864">https://ecos.fws.gov/ecp/species/1864</a>

#### Whooping Crane *Grus americana*

Endangered

Population: Wherever found, except where listed as an experimental population

There is **final** critical habitat for this species. The location of the critical habitat is not available.

Species profile: <a href="https://ecos.fws.gov/ecp/species/758">https://ecos.fws.gov/ecp/species/758</a>

#### **Critical habitats**

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

## USFWS National Wildlife Refuge Lands And Fish Hatcheries

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

## **Migratory Birds**

Certain birds are protected under the Migratory Bird Treaty Act<sup>1</sup> and the Bald and Golden Eagle Protection Act<sup>2</sup>.

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described <u>below</u>.

- 1. The Migratory Birds Treaty Act of 1918.
- 2. The Bald and Golden Eagle Protection Act of 1940.
- 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

The birds listed below are birds of particular concern either because they occur on the <u>USFWS</u> <u>Birds of Conservation Concern</u> (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ <u>below</u>. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the <u>E-bird data mapping tool</u> (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found below.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
American Golden-plover <i>Pluvialis dominica</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
Bald Eagle <i>Haliaeetus leucocephalus</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.  https://ecos.fws.gov/ecp/species/1626	Breeds Oct 15 to Jul 31

NAME	BREEDING SEASON
Harris's Sparrow <i>Zonotrichia querula</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
Hudsonian Godwit <i>Limosa haemastica</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
Lesser Yellowlegs <i>Tringa flavipes</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/9679">https://ecos.fws.gov/ecp/species/9679</a>	Breeds elsewhere
Red-headed Woodpecker <i>Melanerpes erythrocephalus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 10 to Sep 10
Semipalmated Sandpiper <i>Calidris pusilla</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
Willet <i>Tringa semipalmata</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Apr 20 to Aug 5

#### **Probability Of Presence Summary**

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

#### **Probability of Presence (■)**

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.

- 2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
- 3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

#### **Breeding Season** (

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

#### Survey Effort (|)

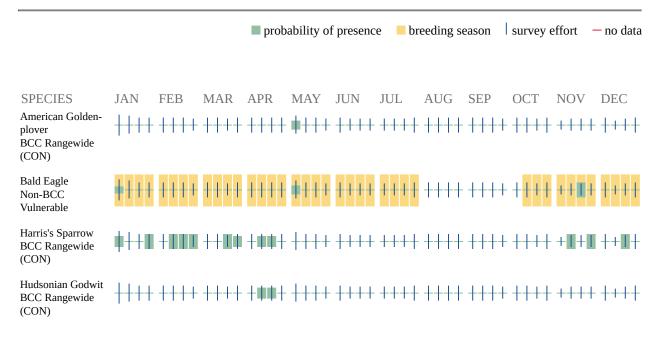
Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

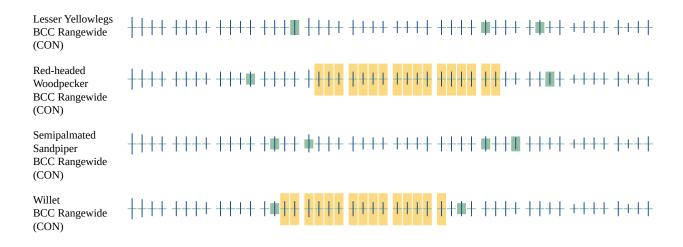
#### No Data (-)

A week is marked as having no data if there were no survey events for that week.

#### **Survey Timeframe**

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.





Additional information can be found using the following links:

- Birds of Conservation Concern <a href="http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php">http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php</a>
- Measures for avoiding and minimizing impacts to birds <a href="http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php">http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php</a>
- Nationwide conservation measures for birds <a href="http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf">http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf</a>

#### **Migratory Birds FAQ**

## Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

## What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS <u>Birds of Conservation Concern</u> (<u>BCC</u>) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the <u>Avian Knowledge Network (AKN)</u>. The AKN data is based on a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (<u>Eagle Act</u>

requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the <u>AKN Phenology Tool</u>.

## What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the <u>Avian Knowledge Network (AKN)</u>. This data is derived from a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u>.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

## How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: The Cornell Lab of Ornithology All About Birds Bird Guide, or (if you are unsuccessful in locating the bird of interest there), the Cornell Lab of Ornithology Neotropical Birds guide. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

#### What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

- 1. "BCC Rangewide" birds are <u>Birds of Conservation Concern</u> (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
- 2. "BCC BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
- 3. "Non-BCC Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the <a href="Eagle Act">Eagle Act</a> requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

#### Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the <a href="Northeast Ocean Data Portal">Northeast Ocean Data Portal</a>. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the <a href="NOAA NCCOS Integrative Statistical Modeling">NOAA NCCOS Integrative Statistical Modeling</a> and <a href="Project Mapping of Marine Bird Distributions">Project Mapping of Marine Bird Distributions</a> and <a href="Abundance on the Atlantic Outer Continental Shelf">Abundance on the Atlantic Outer Continental Shelf</a> project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the <u>Diving Bird Study</u> and the <u>nanotag studies</u> or contact <u>Caleb Spiegel</u> or <u>Pam Loring</u>.

#### What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to <u>obtain a permit</u> to avoid violating the Eagle Act should such impacts occur.

#### **Proper Interpretation and Use of Your Migratory Bird Report**

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

## **Wetlands**

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of Engineers District</u>.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

#### RIVERINE

• <u>R5UBF</u>

#### WATERS AND WETLANDS EVALUATION REPORT

#### For

County	Oklahoma	JP Number	30637(04)	Project Number	Not Provided
Road Number	I-44	Water Body	Name	N/A	
ROW Date	N/A	Let Date	FFY 2026	Project Length	0.472 mile
Project Ger	neral Location	Approximately 0.7 mile north of I-40, in Oklahoma City, OK			n Oklahoma City, OK
	Project Statement From Oracle		I-44 Bridge rehabilitation over the U.P. Railroad and Black Gold Drive		

# Prepared for: Oklahoma Department of Transportation Environmental Programs Division 200 NE 21<sup>st</sup> Street Oklahoma City, OK 73105

#### Prepared by:

Biologist Name	Phillip Crawford
Company/Agency Name	ODOT Biological Studies Program at OU
Address	111 E. Chesapeake Street
City, State Zip	Norman, OK 73019

Report Date:	April 16, 2021
Field Date:	April 8, 2021

Form Date: January 24, 2017

#### PROJECT OVERVIEW

Project Type (Choose one)	Check √
Bridge and Approaches or bridge widening/structure extension	
Grade, Drain, Surface and Bridge	
Grade, Drain and Surface	
Asphalt Overlay Resurfacing	
Widen and Resurface existing lanes	
Pavement Reconstruction or rehabilitation	
Bridge Rehabilitation	$\checkmark$
Safety Improvements (Cable Barrier, Guardrail, signage)	
Intersection Modifications	
Safe Routes to School (Describe)	
Enhancements (Describe)	
Other (Describe)	

#### Description of the **existing** bridge/roadway

The existing I-44 northbound and southbound bridges over the U.P. Railroad and Black Gold Drive (NBI 18769 and NBI 19770) are 246.0 foot continuous steel stringer/girder span bridges with 73.7 foot wide decks and 68.0 foot wide approach roadways consisting of four 12 foot driving lanes and 10 foot paved shoulders. Recent inspections of the existing bridges (built in 1974) indicate that they are in need of repair; the bridges are "at risk" of becoming structurally deficient. The current Average Annual Daily Traffic (AADT) is 158570 vehicles per day (vpd) with a future 20 year AADT of 188210 vpd. The proposed construction will extend the useful life of the bridges.

#### Description of **proposed** improvements **SPECIFIC TO THIS PROJECT**

The proposed construction will include the removal and replacement of portions of the concrete bridge deck and parapet, bearings, expansion joints, pier caps, abutments, approach slabs and slope drains. Concrete and epoxy resin repairs will be made to spalled areas and cracks in the abutments and piers, an elastomeric coating will be applied to the abutments, pier caps and the ends of beams, and a water repellant will be applied to the remaining areas of the abutments, wing walls and pier caps. Portions of the approach roadway will be reconstructed, and the existing guardrail will be replaced on widened (to 12 feet) shoulders. The existing facility will remain open to through traffic during the proposed construction, with crossovers constructed in the median. No new rights-of-way will be required to make the proposed improvements.

#### **Project Environmental Study Footprint**

<b>Project Location</b>		<b>Environmental Study Footprint</b>	
Section Range & Lat/Long (NAD 83) Township		<u>Dimensions</u> <u>Acr</u>	
S36 T12N R04W	35.4709°N 97.5794°W	Encompasses the occupied I-44 R/W for 0.472 mile	24.56

**Environmental Study Footprint Soils (NRCS Soil Survey Map)** 

Map Unit Name	Percent Slope	<b>Drainage Class</b>	Hydric Rating		Description
			YES	NO	
Asher silty clay loam	0 to 1	Moderately well drained		X	Rarely flooded
Dale silt loam	0 to 1	Well drained		X	Rarely flooded
Dale-Urban land complex	0 to 1	Well drained		X	Rarely flooded
Urban Land	N/A	N/A		X	

#### **Environmental Study Footprint General Description and Vegetation Present**

The study area occurs in a commercially-developed area in west Oklahoma City and is occupied by the existing paved facilities and maintained rights-of-way. The maintained right-of-way bordering the study area appears to be frequently mowed, and is vegetated with native and introduced grasses and forbs, including bermuda grass (Cynodon dactylon), silver bluestem (Bothriochloa saccharoides), Johnsongrass (Sorghum halepense), hairy crabgrass (Digitaria sanguinalis), downy brome (Bromus tectorum), rescuegrass (Bromus catharticus), green bristlegrass (Setaria viridis), dallisgrass (Paspalum dilatatum), white clover (Trifolium repens), corn gromwell (Buglossoides arvensis), garden vetch (Vicia sativa), spiny sow thistle (Sonchus asper), southern pepperwort (Lepidium austrinum), blue fieldmadder (Sherardia arvensis), henbit deadnettle (Lamium amplexicaule), redstem stork's bill (Erodium cicutarium), Carolina geranium (Geranium carolinianum), curly dock (Rumex crispus), common dandelion (Taraxacum officinale), thymeleaf sandwort (Arenaria serpyllifolia) and tuberous desert-chicory (Pyrrhopappus grandiflorus). Saplings and small trees of American elm (Ulmus americana), sugarberry (Celtis laevigata), eastern redcedar (Juniperus virginiana), white mulberry (Morus alba), eastern redbud (Cercis canadensis) and eastern cottonwood (Populus deltoides) occur in the fence rows on the west side of the study area. A small area of brushy woodland on the southwest corner of the existing bridges appears to have been recently cleared and graded (sometime after January 2019 per GoggleEarth Streetview imagery). No aquatic features are mapped within the study area. An ephemeral stream crosses under I-44 via a twin reinforced concrete box (RCB) just north of the existing I-44 bridges over the railroad, and a second ephemeral drainage feature crosses under the railroad and Black Gold Drive via a reinforced concrete pipe (RCP) just west of I-44. The study area is bordered by commercial and State Fair Park development and a small golf course.

#### WATERS AND WETLANDS EVALUATION

#### **Data Sources Reviewed (list)**

USGS 7.5	NWI Map	<b>USACE</b> Wetland	Additional Resources
minute Quad		Regional	Reviewed
		Supplement	
Oklahoma City	US Fish and Wildlife	Regional	Natural Resources
(3509745)	Service 2014.	Supplements to the	Conservation Service. 2013.
	CONUS_wet_poly.shp	Corps of Engineers	Major Land Resource Areas
		Wetland	Explorer. U. S. Department
		Delineation	of Agriculture Handbook
		Manual: Great	296, 2006. Available
		Plains Region	http://www.cei.psu.edu/mlra/
		(Version 2.0)	(Accessed: April 7, 2021).

#### **Wetlands and Ponds Summary Table**

Field Sites	Type of Wetland or Pond	Cowardin Classification	Potential Jurisdictional Status	Acres within Environmental Study Footprint
None				0

**Streams and Drainages Summary Table** 

Field Sites	Stream Name	USGS Mapped Status	Potential Jurisdictional Status	Acres within Environmental Study Footprint	Linear Feet within Environmental Study Footprint
1	Unnamed stream	Unmapped ephemeral	Unlikely	0.247	462.3
1	Unnamed drainage swale	Unmapped ephemeral	Unlikely	N/A (no OHWM)	1404.6

Streams and other linear aquatic features

**Field Site 1** is an unmapped ephemeral drainage feature (see images from Photo Sites 5, 6, 7 and 8). An estimated 462.3 linear feet (0.247 acre) of Field Site 1 occur within the study area. This feature originates in developed uplands a short distance east of I-44, crosses under the highway via a twin RCB culvert, and drains west through an excavated and maintained drainage swale. Standing water was observed in the stream bed on the survey date. Most of that reach of this feature within the study area is confined to a twin (10'x5') RCB. Otherwise, the shaped and maintained banks are vegetated with those grass and forb species common to the right-of-way, as well as a few scattered saplings of white mulberry (*Morus alba*). Although this stream exhibits an evident OHWM, it is not mapped on the Oklahoma City (3509745) 7.5 minute topographic quad map and

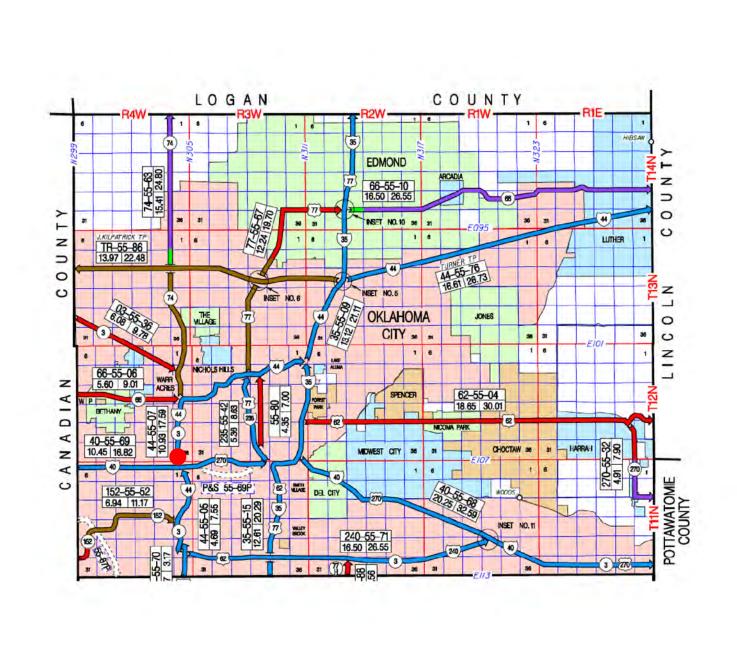
appears to have been excavated entirely in uplands; this stream is not likely to be subject to regulation by the USACE, which generally does not assert jurisdiction over such drainage swales (United States Army Corps of Engineers and United States Environmental Protection Agency 2007).

**Field Site 2** is an unmapped ephemeral drainage feature (see images from Photo Sites 3 and 4). An estimated 1404.6 linear feet of Field Site 2 occur within the study area. This feature originates in the I-44 (west side) drainage ditch a short distance south of the study area, crosses under the railroad and Black Gold Drive via a reinforced concrete pipe (RCP) culvert, and drains into Field Site 1 just north of Black Gold Drive. This feature occupies an excavated and (largely) maintained drainage swale, although the bed is scoured and gullied in a few locations; a small area of brushy woodland bordering the feature on the southwest corner of the existing I-44 bridges appears to have been recently cleared and graded (sometime after January 2019 per GoggleEarth Streetview imagery). The shaped and maintained banks are vegetated with those grass and forb species common to the right-of-way. This feature was dry on the survey date. This feature does not exhibit a continuous evident OHWM, it is not mapped on the Oklahoma City (3509745) 7.5 minute topographic quad map and it appears to have been excavated entirely in uplands; this stream is not likely to be subject to regulation by the USACE, which generally does not assert jurisdiction over such drainage swales (United States Army Corps of Engineers and United States Environmental Protection Agency 2007).

#### Wetlands and ponds

No ponds or wetlands are mapped within the study area on the Oklahoma City (3509745) 7.5 minute topographic quad map or the U. S. Fish and Wildlife Services National Wetlands Inventory, respectively. No likely-jurisdictional ponds or wetlands were observed within the study area on the survey date.

#### **FIGURES**



## Figure 1. Control Section Map



**Project Site** 



Oklahoma County J/P 30637(04)

Source: State of Oklahoma Department of Transportation

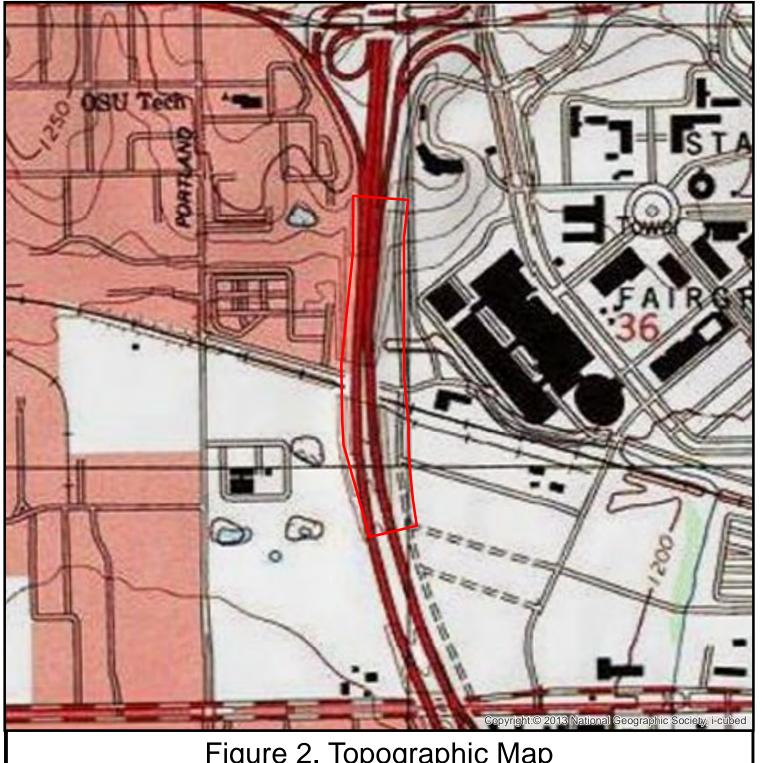


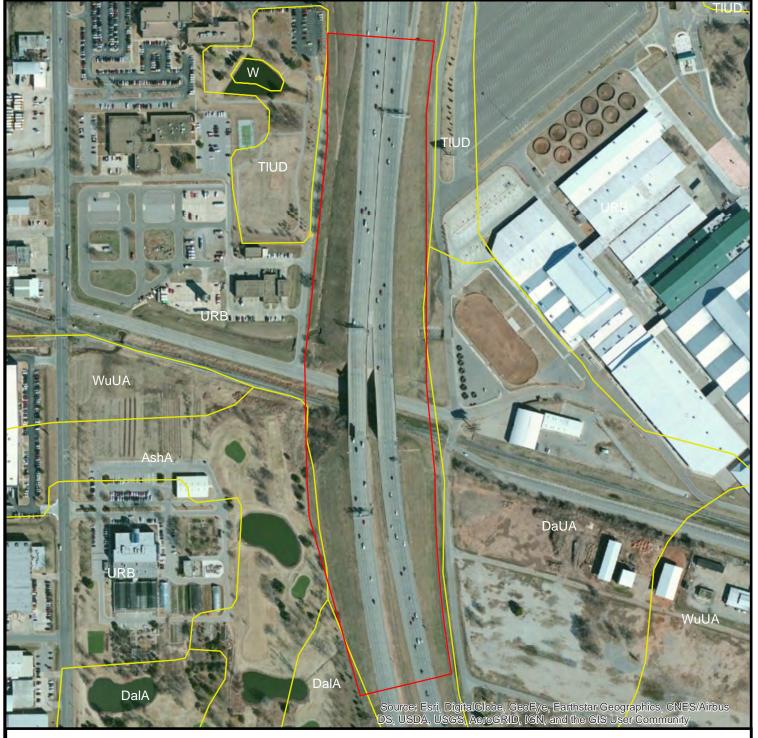
Figure 2. Topographic Map

Study Area

Oklahoma County J/P 30637(04)

500 1,000 2,000

USGS 7.5 minute quadrangle at 1:24,000 scale



## Figure 3. Soil Map



Study Area



Soil Boundaries

#### **Soil Abbreviations**

AshA - Asher silty clay loam, 0 to 1 percent slopes, rarely flooded

DalA - Dale silt loam, 0 to 1 percent slopes, rarely flooded

DaUA - Dale-Urban land complex, 0 to 1 percent

slopes, rarely flooded

Urb - Urban land

USDA-NRCS 2014 Soil Survey Geographic (SSURGO) Data



Oklahoma County J/P 30637(04)

260 520

1,040 Feet

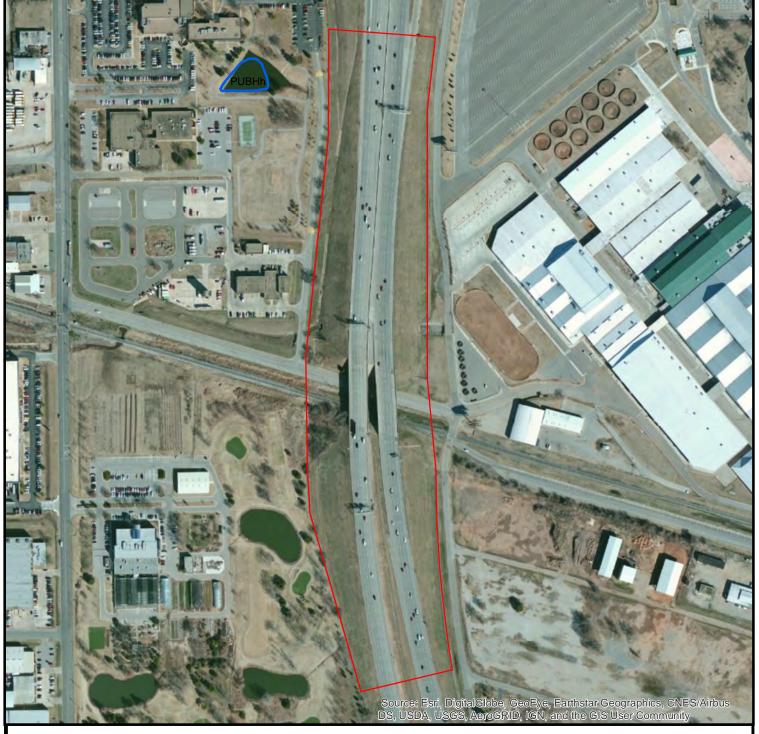


Figure 4: National Wetlands Inventory



Oklahoma County J/P 30637(04)

0 260 520 1,040 Fee

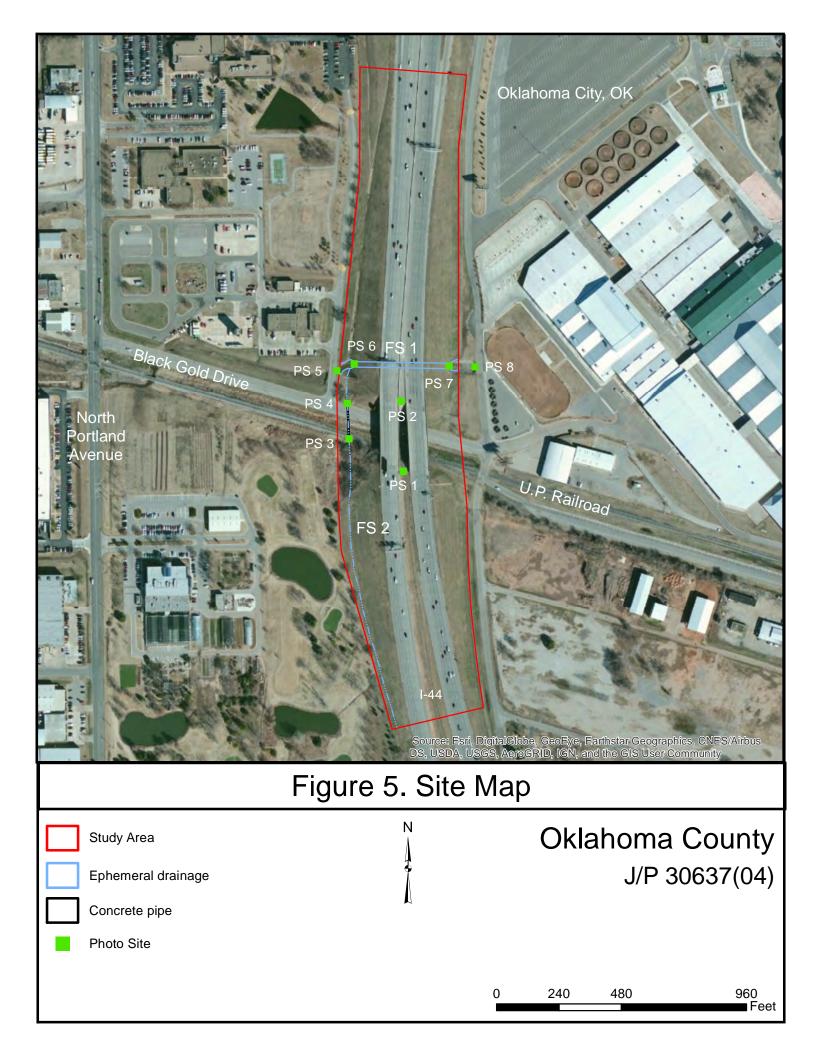




Photo Site 1 (PS 1): Existing R/W, looking south from the I-44 median at the top of the south slope wall.



PS 2: Existing R/W, Black Gold Drive and U.P. Railroad, looking south from the I-44 median at the top of the north slope wall.



PS 3: Field Site 2 (FS 2, ephemeral drainage swale), looking south from the south side of the U.P. RR; the south end of a concrete pipe culvert is visible.



PS 1: Existing R/W, U.P. Railroad and Black Gold Drive, looking north from the I-44 median at the top of the south slope wall.



PS 2: Existing R/W, looking north from the I-44 median at the top of the north slope wall.



PS 4: FS 2, looking north from the north side of Black Gold Drive; the north end of a concrete pipe is visible, and FS 1 lies in the center background.



PS 5: FS 1 (ephemeral stream), looking NE from an RCB that carries the feature under a side road; the I-44 RCB is visible in the center of the image.



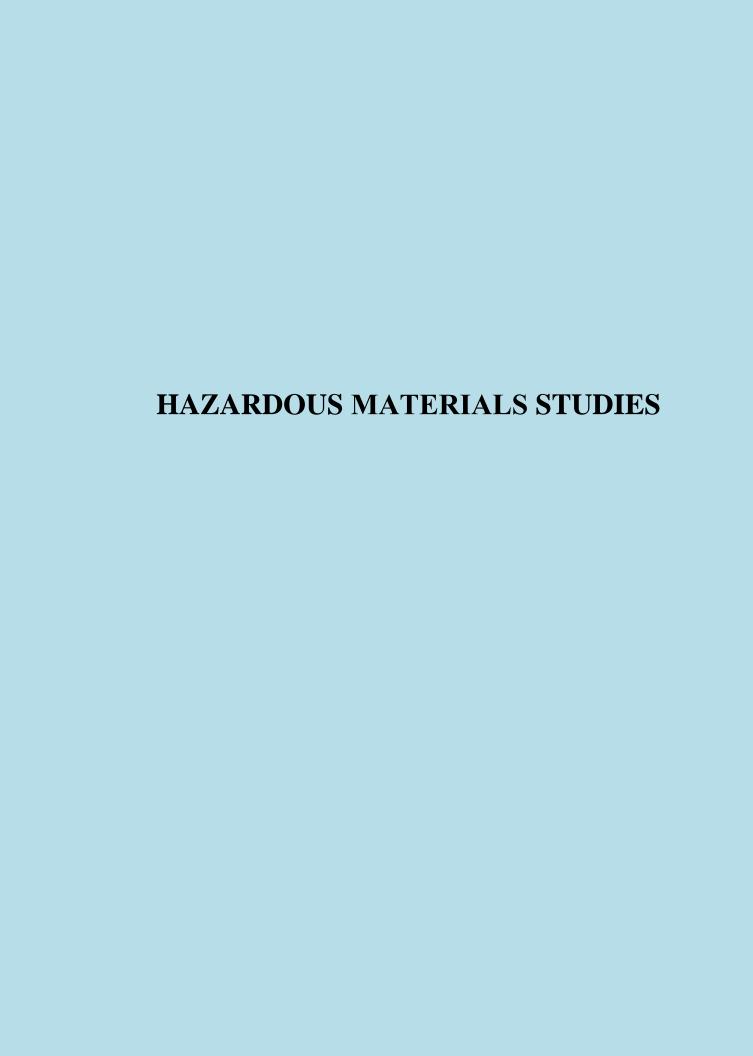
PS 7: FS 1, looking east from the east end of the RCB that carries the feature under I-44.



PS 6: FS 1, looking SW from the west end of the RCB that carries the feature under I-44; the confluence with FS 1 is visible at the lower left.



PS 8: FS 1, looking west from an RCB that carries the feature under a side road; the I-44 RCB is visible in the center of the image.

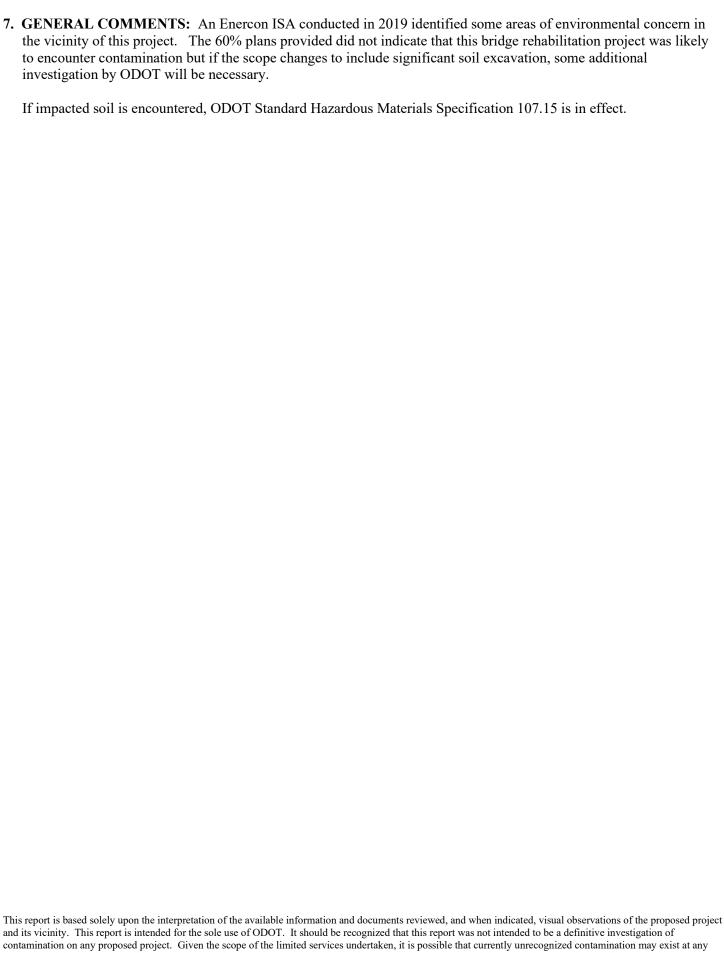


# OKLAHOMA DEPARTMENT OF TRANSPORTATION INITIAL SITE SCREENING REPORT – HAZARDOUS WASTE

**Prepared By:** David Edwards **Project No.:** J3-0637(004)PM County: Oklahoma J/P Number: 30637(04) **Report Date:** 04/27/2023 1. PROJECT DESCRIPTION: BRIDGE REHABILITATION: I-44: OVER THE UPRR, 0.7 MILES NORTH OF I-40 2. LAND USE AND CHARACTERISTICS: Urban land use within Oklahoma City city limits. 3. PROJECT METHODOLOGY: A. Records Search: ☐ Electronic database search (vendor: ; report date: ) Manual database search (LUST, CERCLA, VCP, Landfill), plus: ⊠ UST ☐ Sanborn Fire Insurance Maps ☐ Oil and Gas Wells ☐ Survey Report ⊠ RCRA CORRACTS ☐ Agency files: ☑ Other: Enercon ISA 2019, 30% plans B. Interviews/Contacts: ☐ Visit (date: ) ☐ No Visit C. Field Investigation: 4. RESULTS OF INVESTIGATION: A. Physical Features in Immediate Project Area (USTs, AST, Others): A LUST site and some additional areas of environmental concern have been identified in the vicinity of the project. B. Evidence of Contamination (Vegetation Damage, Staining, Sheen): None noted. C. Summary: No concerns identified in project area. ☐ Potential sources of contamination identified in project area. ☐ Known sources of contamination identified in project area. 5. RECOMMENDATIONS: Approval to Proceed (No Further Action) ☐ Approval to Proceed, Pending: ☐ Avoidance of described site(s) ☐ Plan Notes regarding described site(s) (See Section 6) ☐ Additional investigation by ODOT ☐ Approval NOT Recommended

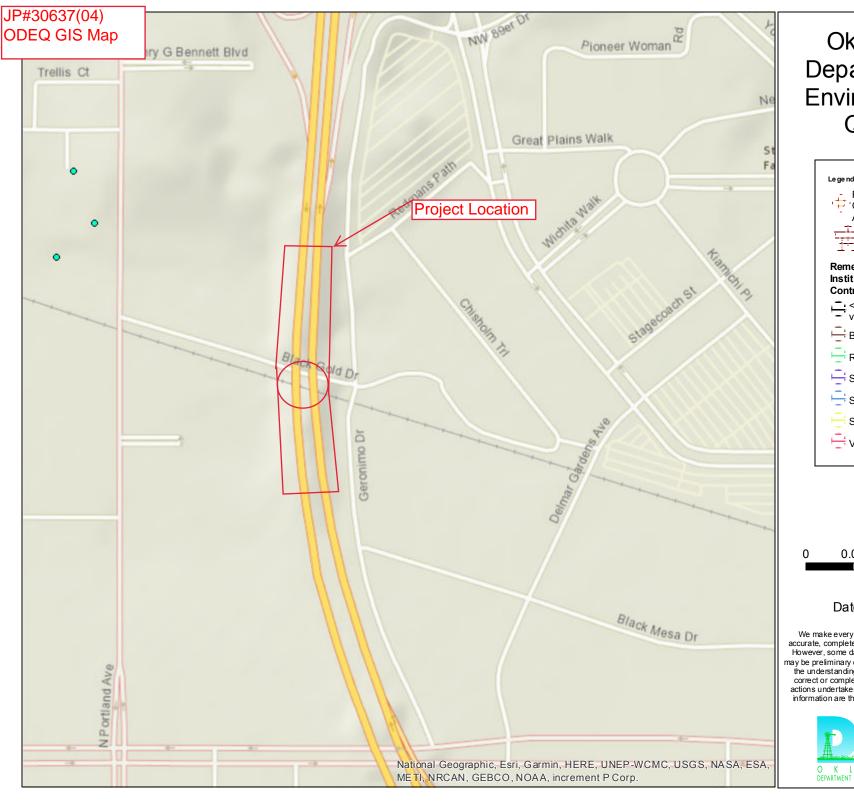
This report is based solely upon the interpretation of the available information and documents reviewed, and when indicated, visual observations of the proposed project and its vicinity. This report is intended for the sole use of ODOT. It should be recognized that this report was not intended to be a definitive investigation of contamination on any proposed project. Given the scope of the limited services undertaken, it is possible that currently unrecognized contamination may exist at any property and that the levels of this potential contamination may vary. Opinions and recommendations presented therein apply to existing conditions and those reasonably foreseeable.

**6. PLAN NOTES:** Plan notes not needed.

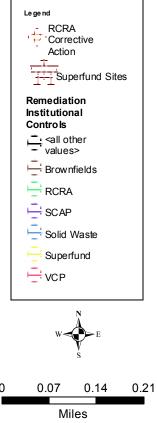


property and that the levels of this potential contamination may vary. Opinions and recommendations presented therein apply to existing conditions and those reasonably foreseeable.





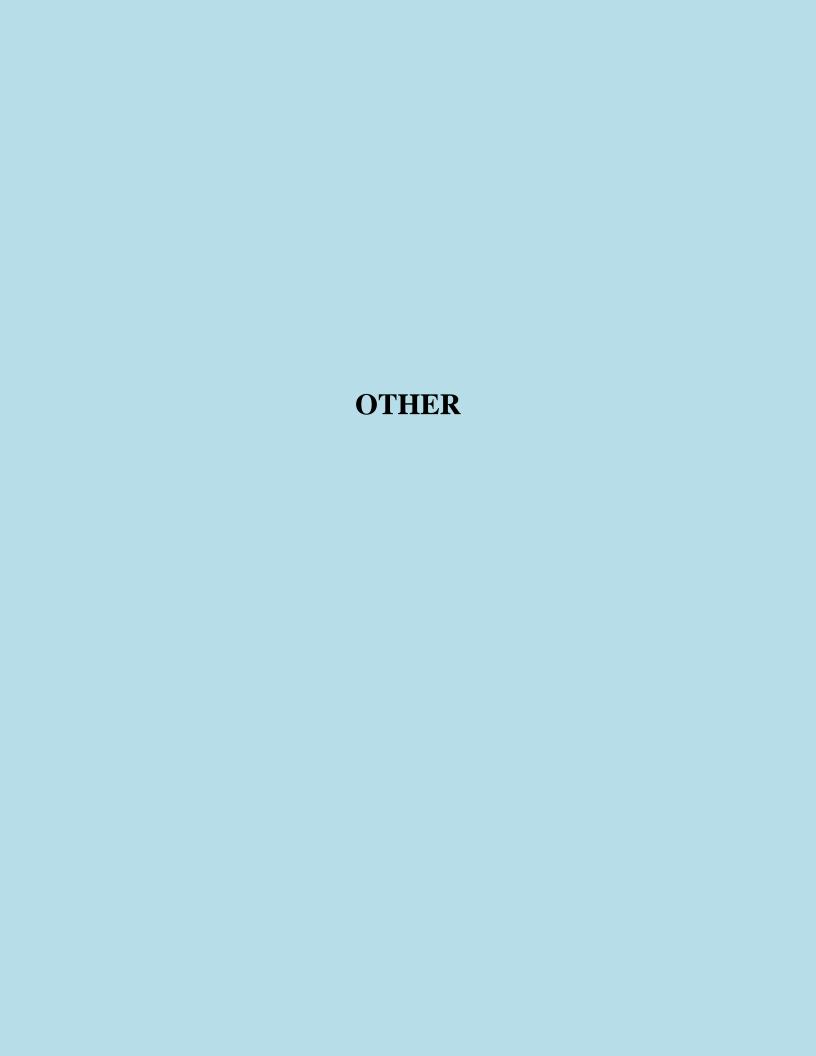
# Oklahoma Department of Environmental Quality



Date: 7/14/2021

We make every effort to provide and maintain accurate, complete, usable, and timely information. However, some data and information on this map may be preliminary or out of date and is provided with the understanding that it is not guaranteed to be correct or complete. Conclusions drawn from, or actions undertaken on the basis of, such data and information are the sole responsibility of the user.





MDI N	Ofmications No	Lecal ID:	Out Dathan	
<u>NBI No.:</u> 18769	Structure No.: 5507 0071EX	Local ID: -1	Suff. Rating: 80.80	FO
IDENT	TIFICATION		INSPECTION	
Bridge Description: IDENT 47ft.,2-74ft.,47ft. CONT. I-BM. SPANS		Type Insp. Red	·	Next Insp.
471t.,2-74tt.,47tt. CONT. I-DIVI. SPANS	SK. 70 DEG.301t.	NBI:	1 24 months 11/27/2018	11/27/2020
		FC: N	0 NA	NA
	acility Carried: I-44 NB	UW: N OS: N	0 NA 0 NA	NA NA
	eat. Intersect: U.P. R.R. & ST. UNDER	OS: N		NA
3. County: OKLAHOMA 4. City: OKLA. CITY	9. Location: 0.7 MI N I-40 11 Mile Post: 0.710 mi		CLASSIFICATION	
Admin Area: Unknown	11. Mile Post: 0.710 mi 13. LRS Inv. / Sub Rte: 5507 0000 / 01	12.Base Hwy Net.: O		of    bridge
5a. On/Under: Route On Structure	16. Latitude: 35° 28' 13.50"	20 o ao	On free road 102. Traffic Dir.: 1-way	
5b. Kind of Hwy: Interstate Hwy	17. Longitude: 097° 34' 44.48"	21. Custodian: State	103. Temp. Str.: Not Ap 104. Hwy System: On the	oplicable (P)
5c. Lvl of Srvc: Mainline	98. Border Brdg: Not Applicable (P)	22. Owner: State 26. Function Class: 1		
5d. Route No.: 00044	% Responsible: 0.00	37. Historical Sig.: No		
5e. Dir. Sufx: N/A (NBI)	99. Border Brdg #: Unknown	-	nterstate STRAHNE 112. NBIS Length: Long E	
STRUCTURE TY	PE AND MATERIALS		CONDITION	
43a/b. Main Span:	Steel Cont. / Stringer/Girder	58.Deck: 5 Fair	59.Sup.: 5 Fair 60.Sub: 5 Fa	air
44a/b. Appr. Span:	N/A / Not Applicable (P)	62.Culvert: N/A (NB		
45. # of Main Spans: 4		Flowline Notes	To the state of th	
46. # of Appr. Spans: 0				
107. Deck Type: Concrete-Ca	ast-in-Place			
108a. Wearing Surface: Low Slump (	Concrete		LOAD DATING AND DOCTING	
108b. Membrane: None		21 Danian Land	MS 18 (HS 20)  Data Potadi 01	
108c. Deck protection: Other			A Open, no restriction	/06/2011
AGE AN	ND SERVICE	· · · · · · · · · · · · · · · · · · ·	5 At/Above Legal Loads	
19. Detour Length: 0.1 mi	106. Year Reconst,:	63.Op / 65.Inv. Rating	<del>-</del>	d Factor
27. Year Built: 1974	109. Truck ADT: 12%		H HS 3-3 EV3	SHV
28a/b. Lanes on/und: 4 / 4		64. Operating Rating	(tons): 44.60 57.30 91.10 -1.00	0.00
29. ADT: 70,350		66. Inventory Rating	(tons): 26.70 34.40 54.70 -1.00	
30. Year of ADT: 2016			APPRAISAL	
42a/b. Type of Svc on/und: Highway	/ Hwy-R.R.	36a. Brdg Rail: 1	<del></del>	ve Min Criteria
GEOME	ETRIC DATA		Meets Standards 69. Vert./Horiz. Undclr: 2	Intolerable - R
10. Vert. Clearance: 99.99 ft	50a. Curb/Sdwlk Width L: 0.00 ft	36c. Appr. Rail: 1	Meets Standards 71. Waterway Adeq: N N	ot applicable
32. Appr Rwy Width: 70.70 ft	50b. Curb/Sdwlk Width R: 0.00 ft	36d. Appr.Rail Ends:	1 Meets Standard 72. Appr. Alignment: 8 Equ	
33. Median: No median	51. Width Curb to Curb: 70.70 ft	67. Str Evaluation:	5 Above Min Tolera 113. Scour Critical: N Not	Over Waterwa
34. Skew: 20.00°	52. Width Out to Out: 73.70 ft		PROPOSED IMPROVEMENTS	
35. Struct. Flared: No flare 47Horizontal Clr. 70.70 ft	Deck Area: 18,126.43 sq. ft  53 Min Vert CLOvr Bra: 99.99 ft	94. Bridge Cost:	\$1,914,095 75. Type of Work: 31 Rep	ol-Load Capac
47Horizontal Clr: 70.70 ft  48. Length Max Span: 74.00 ft	53. Min.Vert.Cl.Ovr Brg: 99.99 ft 54a.Min.Vt.Undclr.Ref.: H Hwy beneath str	95. Roadway Cost:	\$3,158,257 76. Lngth of Improvement:	288.0 ft
49. Struct. Length: 246.00 ft	54b. Min. Vert. Undclr.: 26.17 ft	96. Total Cost:	\$5,359,466 114. Future ADT:	112,560
45. Olidot. Length. 2 Teles it	55a. Min.Lat.Undclr.Ref: H Hwy beneath s	tr 97. Yr.of Cost Est.:	2015 115. Yr.of Future ADT:	2036
	55. Min.Lat.Underclr. R: 2.00 ft		NAVIGATION DATA	
	56. Min.Lat.Underclr. L: 0.00 ft		NA-no waterway	: Applicable (P)
000 Tamanani 00	OKLAHOMA ITEMS	<ul><li>39. Vert. Clearance:</li><li>40. Horiz. Clearance:</li></ul>		O.0 ft
200c. Temperature: 38 200d. Weather: Clear	<u> </u>		Tro. Ent Bridge Vert. Off	
	-1 / -1 214a. Posted Weight Limit:	NR	244. Span Lengths:	
202. Waterprf.Membrane: -1	b. Posted Speed Limit:	60		
Date Installed: 01/01/1901			245. Girder Depth:	
203. Type Exp. Device: Armored J	oint d. Vertical Clr. Sign: Adv. Warning Sign:	Yes No	246a. Type of Ovelay: High Density	
Pourable	e. Navigation Lights?:	NA NA	b. Overlay Thickness: 1.50	
204. Type of Railing: SFP-1 205. Material Quantity: 2.061.00	Working/Not Working:	NA	c. Overlay Date: 10/11/2006	
205. Material Quantity: 2,061.00 Skeleton	1	NTERSTATE	d. Ovly Depth Changed >1": N	
b. Type of Found.: Steel Piling			247. Protective Systems:	
209. Type of Pier/Found.: 4	/ No 222. Fill Over RCB:			
Steel Piling		2		
210. Foundation Elev.: -1.00		Red Lead 3 Coat System	248. # Field Splices w/ Corrosion:	
-1.00 -1.00	1 -1.00	I/A	249. Scour Crit. POA Exists?: 250. Headwall:	
211. Wear.Surf.Prot.Sys: None		974	254. Thru Truss Type:	
Date Installed: 01/01/1901	222 Dook Forming: (	Silver Conventional Forming	257a. OkiePROS Truck Routing: Yes	
213. Utilities Attached: Communicat	tion I I	Current & Desired route	258. Plans w/Found.in ODOT File:	
	200: 00::00: 200 : 100::	Concrete	259. Scour Eval. in ODOT File:	
	243. Grdr Spacing/No.:	/ 9	263. Interchange at Intersection: No 264. Interstate Milepoint: 120.96	
	1		264. Interstate Milepoint: 120.96	

	NBI No.:         Structure No.:           18769         5507 0071EX			Local ID: -1	<u>Suff. Rating:</u> 80.80	FO
Inspection Date:	11/27/18		Gary Hines			
Invoice No.:	GLH1118	Inspected With:	Gary Richardson			

### **BRIDGE NOTES:**

Four span continuous steel beam structure with spans at 47'-74'-74'-47'.

### INSPECTION NOTES:

11/27/18

G Hines inspection comments - 11/27/2018

The loose diaphragms in span #1 between the 7th & 8th beams have been repaired with new bolts since 2014 \* Good side drains \* FX - Slopewall settlement on the North from 2" to 5" & on the South from 1" to 3" with exposed piles each location \* The total horizontal clearance for the railroad is 68' - the minimum R.H. clearance for the railroad is 18.4' \* There is a drainage ditch under span #2 \* FX - Erosion needs fill at SE slopewall area \*

### **ELEMENT CONDITION STATE DATA**

Elem. / Env	Description	Unit	Total Qty	% 1	Qty. 1	% 2	Qty. 2	% 3	Qty. 3	% 4	Qty. 4	
12 / 4	Re Concrete Deck	sq.ft	17,392.00	0%	0.00	80%	13,889.00	20%	3,478.00	0%	25.00	
PX - The deck was patched where there was spalling around the fixed joints (2006 photo). Heavy spalling - patches & potholes are present												
alor	ng the expansion joint at the North end	of span	#4 & along (6)	construc	tion joints (	#1-2-4-5-	6 & 9). Cavit	ies from r	missing/rem	oved pav	vement	
	kers need to be filled. The North SECT	ION of	span #4 has sh	nifted side	eways abou	t 3 inches	s - (no shear	studs are	present in	the end		
pan	els). Also see SF #859.	-										
510 / 4	Wearing Surfaces	sq.ft	17,392.00	0%	0.00	80%	13,889.00	20%	3,478.00	0%	25.00	
PX - The deck was patched where there was spalling around the fixed joints (2006 photo). Heavy spalling - patches & potholes are												
present along the expansion joint at the North end of span #4 & along (6) construction joints (#1-2-4-5-6 & 9). Cavities from												
	missing/removed pavement markers n		oe filled. The N	orth SEC	TION of spa	an #4 has	shifted side	ways abo	out 3 inches	- (no		
	shear studs are present in the end par			-01		1.000/						
107 / 4	Steel Opn Girder/Beam	ft	1,314.00	0%	0.00	100%	1,310.00	0%	4.00	0%	0.00	
	- There is some minor exfoliation on the			am near t	he North ab	outment. I	ots of mode	rate to he	eavy rust on	most be	ams in	
	ns #5 thru #9. Needs painted in the nea	-		4000/	0.00	00/	0.00	00/	0.00	00/		
515 / 4	Steel Protective Coating	sq.ft	20,802.00	100%	0.00	0%	0.00	0%	0.00	0%	20,802.00	
	PX - There is some minor exfoliation o				ear the Nort	th abutme	ent. Lots of m	noderate t	to heavy sur	face rus	t	
	on most beams in spans #5 thru #9. N				0.00	00/	0.00	4000/	0.00	607	0.00	
202 / 4	Steel Column	each	6.00	0%	0.00	0%	0.00	100%	6.00	0%	0.00	
	- There are (6) pilings visible 2 to 4 inch		_ ,		_				_		_	
205 / 4	Re Conc Column	each	12.00	92%	11.00	8%	1.00	0%	0.00	0%	0.00	
	perficial defects noted on some areas -  Re Conc Abutment	ft	158.00	0%	0.00	62%	98.00	38%	60.00	0%	0.00	
215 / 4		_								1		
	- Heavy horizontal cracking & spalling o					•		•				
	ttered areas. Some light to heavy horize the North on the 2nd- 4th- 5th & 7th pec		_		W #3 to #9	& the Eas	st end. Crack	ks with de	eiaminations	also pre	esent	
923 / 4	Conc Substr Prot Coa	(SF)	7,102.00	100%	0.00	0%	0.00	0%	7,102.00	0%	0.00	
923 / 4		. ,									0.00	
	The coating on the abutments is peelir	ng - crac	cked & stained	in most a	ireas. Minoi	defects (	on small area	as of the	caps. The c	olumns		
234 / 4	are in good condition.  Re Conc Pier Cap	ft	237.00	96%	227.00	3%	8.00	1%	2.00	0%	0.00	
	- One tiny spall on the South face of be									1		
	ne minor cracking on the bottom side o								•			
	ole on bottom surfaces.	i tile Zili	d cap. Water 3	anning is	present ne	ai tile cei	iteriirie or ea	cii cap w	uii aicas oi	icbai cii	alis	
301 / 4	Pourable Joint Seal	ft	79.00	100%	0.00	0%	0.00	0%	0.00	0%	79.00	
	- The North joint was converted to pour	rable so	_						compressi			
	ole it reveals failure in 70% of the area.				p. 011000	, 551010	_ 00 1100 0		55р. 600	, <b>o</b>		
302 / 4	Compressn Joint Seal	ft	79.00	0%	0.00	0%	0.00	0%	0.00	100%	79.00	
	- The gland in the South joints is sever	ely rippe	ed and torn with	n seepaq	e & spalling	below. T	he armor ha	s section:	s damaged	& gone v	vith	
	ches over each abutment. Needs conve			. 3	. 3				•	·		
311 / 4	Moveable Bearing	each	36.00	11%	2.00	56%	20.00	8%	5.00	25%	9.00	
PX ·	- Most roller bearings have heavy surfa	ce rust	overall. Some	have min	or exfoliation	n presen	t (5- 6- 7- 8 8	& 9 on S.	abutment) -	none se	rious	
	nis time. Each roller on the North has th											
und	er each beam at this time (2012 photo)	)										
313 / 4	Fixed Bearing	each	9.00	44%	4.00	56%	5.00	0%	0.00	0%	0.00	
Son	ne light to moderate surface rust noted	on oute										
321 / 4	Re Conc Approach Slab	sq.ft	2.00	0%	2.00	0%	0.00	100%	0.00	0%	0.00	
Both	h have been repaired in the traffic lanes	s since 2		shoulder	_	nes low.						
331 / 4	Re Conc Bridge Railing	ft	492.00	49%	243.00	50%	245.00	1%	4.00	0%	0.00	
	- Some minor spalls noted on the West		•		•			in a few	areas with lo	ots of mir	nor	
scal	le on the lower East rail due to salt spra		_					-		-	_	
859 / 4	Soffit	(EA)	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00	

NR	BI No.:	Structure No.:	<u> </u>	ocal ID:		Sur Sur	ıff. Ratin	u.				
		5507 0071EX	<u> </u>	-1		<u> </u>	80.80	<u>4.</u>		FO		
Som	Some spalls & deterioration are present near the joints below the curbs. Some rusting noted on the exposed rebar.											
865 / 4	St.Open Gird End(5Ft	(LF) 90.0	0% 0	.00 94%	80.00	6%	10.00	0%	0.00			
PX -	PX - Some minor exfoliation in span #4 on the 6th- 7th & 8th beams at the North abutment - also some on the 9th beam below the North fixed											
joint	. Some loss noted on South abut	ment ends #2 thru #7 a	as well. Various deg	rees of surface	rust otherw	ise. Also se	e SF #97	3.				
870 / 4	Concrete Wingwall	(EA) 4.00	100% 4	.00 0%	0.00	0%	0.00	0%	0.00			
					_							
872 / 4	St.Gird Und Const.Jt	(LF) 810.0	0% 0	.00 98%	795.00	2%	15.00	0%	0.00			
PX -	<ul> <li>Heavy surface rust is present m</li> </ul>	ainly below the 4th- 5th	& 6th fixed joints v	ith some initial	exfoliation i	noted. Loss	not seriou	ıs at this ti	me.			
909 / 4	Pourable Fix Jt.Seal	(LF) 639.0	0% 0	.00 0%	0.00	0%	0.00	100%	639.00			
PX -	- Moderate to heavy spalling alon	g the 1st- 2nd- 4th- 5th	- 6th & 9th joints wi	th spalls & patc	hes (2006 p	hoto). The	sealant is	deteriorat	ed at			
all jo	oints. There are a total of 9 joints.											
958 / 4	Concrete Cracking SF	(EA) 1.00	0% 0	.00 0%	0.00	100%	1.00	0%	0.00			
PX -	- Deck has light to moderate trans	sverse cracking that ha	ve not been sealed		_							
963 / 4	Steel Section Loss SF	(EA) 1.00	0% 0	.00 100%	1.00	0%	0.00	0%	0.00			
Loss	s not serious on any element at th	nis time.			_							
966 / 4	Exposed Abut.Piling SF	(EA) 1.00	0% 0	.00 100%	1.00	0%	0.00	0%	0.00			
PX -	There are 6 pilings visible 2 to 4	inches under the North	abutment due to t	ne slopewall se	ttling.							
968 / 4	Erosion SF	(EA) 1.00	100% 1	.00 0%	0.00	0%	0.00	0%	0.00			
PX -	- A 3ft. deep cavity is present alo	ng the East side of the	South slopewall.		_							
969 / 4	OutOfPlane Dist./Load	(EA) 1.00	0% 0	.00 0%	0.00	100%	1.00	0%	0.00			
FX -	The beams in the end spans are	shifted laterally due to	longitudinal forces	acting in the de	eck on the w	edge shape	ed section	s of the er	nd			
decl	k spans.	·	· ·	J								
973 / 4	Horizontal Force SF	(EA) 1.00	0% 0	.00 100%	1.00	0%	0.00	0%	0.00			
PX -	- Compression forces have pushe	ed seven of the 9 beam	s into the South ba	ckwall. The ske	w angle con	nbined with	the longit	udinal forc	es	-		
	caused the end panels of the dec				•		U			İ		
	ted as well (5 to 6 inches) - they		,	•	p		-,					
. 01.01	(2 2											

NBI No.: 18770		ure No.: <u>I</u> 071WX	Local ID:	Suff. R 82	ating:	ND		
	TIFICATION		INSPECTION					
47ft.,2-73ft.,47ft. CONT. I-BM. SPANS	SK. 72 DEG.47	ft.45.65ft.	<u>Type</u> <u>Insp. Reg</u> NBI:		Freq. Insp. Da months 8/13/202			
			FC: N	0	NA	NA		
1. State: Oklahoma 7. F	acility Carried :	I-44 SB	uw: N	0	NA	NA		
	_	J.P. R.R. & ST. UNDER	os: N	0	NA	NA		
3. County: OKLAHOMA 4. City: OKLA. CITY	9. Location: (				FICATION I			
Admin Area: Unknown		/ Sub Rte: 5500007HV / 00	12.Base Hwy Net.: O	n Base Network On free road	101. Parallel Str.: 102. Traffic Dir.:	Left of    bridge 1-way traffic		
5a. On/Under: Route On Structure	16. Latitude:	35° 28' 14.05"	20. Toll Facility: C 21. Custodian: State	on nee road	103. Temp. Str.:	Not Applicable (P)		
5b. Kind of Hwy: Interstate Hwy	17. Longitude:		22. Owner: State		104. Hwy System:	On the NHS		
5c. Lvl of Srvc: Mainline 5d. Route No.: 00044	98. Border Brown Responsible	•	26. Function Class: 1		105. Fed Land Hwy:			
5e. Dir. Sufx: N/A (NBI)		dg #: Unknown	37. Historical Sig.: No 100. Def. Hwy: On li	-		On Interstate STRAHN		
STRUCTURE T	YPE AND MATE	RIALS	100. Del. Hwy. Off ii		DITION	Long Lilough		
43a/b. Main Span:		Stringer/Girder	58.Deck: 5 Fair	59.Sup.: 5		ub:5 Fair		
44a/b. Appr. Span:	N/A /	Not Applicable (P)	62.Culvert: N/A (NB					
45. # of Main Spans: 4			Flowline Notes					
46. # of Appr. Spans: 0	ast-in-Place							
107. Deck Type: Concrete-C 108a. Wearing Surface: Low Slump								
108b. Membrane: None					AND POSTING			
108c. Deck protection: None			1	MS 18 (HS 20) A Open, no restriction	Date Rated	: 01/06/2011		
AGE A	ND SERVICE		· · · · · · · · · · · · · · · · · · ·	5 At/Above Legal Loa				
19. Detour Length: 0.1 mi	106. Year Red	const.:	63.Op / 65.Inv. Rating	Meth.: 1 LF Lo	oad Factor / 1 L	_F Load Factor		
27. Year Built: 1974	109. Truck AD	DT: 12%		H	HS 3-3	EV3 SHV		
28a/b. Lanes on/und: 4 / 4			64. Operating Rating		55.20 87.10	0.00 0.00		
29. ADT: 70,350 30. Year of ADT: 2018			66. Inventory Rating (	tons): 25.60	33.10 52.20	-1.00		
42a/b. Type of Svc on/und: Highwa	у ,	/ Hwy-R.R.	1		RAISAL	- A. A. A. A		
	ETRIC DATA	<u> </u>	7	Meets Standards Meets Standards	68. Deck Geom.: 69. Vert./Horiz. Und	7 Above Min Criteria		
10. Vert. Clearance: 99.99 ft	50a. Curb/Sdv	wlk Width L: 0.00 ft	000	Meets Standards	71. Waterway Aded	R Not applicable		
32. Appr Rwy Width: 68.00 ft	50b. Curb/Sdv		36d. Appr.Rail Ends:	1 Meets Standard		t: 8 Equal Desirable Cr		
33. Median: No median	51. Width Cur		67. Str Evaluation:	5 Above Min Tolera	113. Scour Critical:	N Not Over Waterway		
34. Skew: 18.00° 35. Struct. Flared: No flare	52. Width Out Deck Area			PROPOSED II	MPROVEMENTS			
47Horizontal Clr: 70.70 ft	53. Min.Vert.C		94. Bridge Cost:	\$1,860,478		31 Repl-Load Capacity		
48. Length Max Span: 73.00 ft	54a.Min.Vt.Un		95. Roadway Cost: 96. Total Cost:	\$3,069,789 \$5,209,339	76. Lngth of Improv 114. Future ADT:	ement: 279.9 ft 112,560		
49. Struct. Length: 242.00 ft	54b. Min. Vert		97 Vr of Cost Est	2015	114. Future ADT.			
	55a. Min.Lat.U		07. 11.01 0000 200.		TION DATA	31.		
	55. Min.Lat.Ur 56. Min.Lat.Ur		38. Nav. Control:	NA-no waterway	<del></del>			
	OKLAHOM		<ul><li>39. Vert. Clearance:</li><li>40. Horiz. Clearance:</li></ul>	0.0 ft 0.0 ft	111. Pier Protect.: 116. Lift Bridge Ver	Not Applicable (P) t. Clr.: 0.0 ft		
200c. Temperature: 81 200d. Weather: Ptly Cloudy		<u> </u>	40. Horiz. Olearance.	1	110. Elit Bridge Ver			
201. Struc.Stl. ASTM Desig.:	-1 / -1	214a. Posted Weight Limit:	NR	244. Span Length	s: 47 73	73		
202. Waterprf.Membrane: -1		b. Posted Speed Limit: c. Narrow/1way Brdg Sign:	60 No	47				
Date Installed: 01/01/190		d. Vertical Clr. Sign:	Yes	245. Girder Depth		J:E: _ J		
203. Type Exp. Device: Armored	oome	Adv. Warning Sign:	No	246a. Type of Ove b. Overlay Thick		illed		
204. Type of Railing: SFP-1		e. Navigation Lights?:	NA NA	c. Overlay Date:		<b>'</b> 4		
205. Material Quantity: 2,030.00 208a. Type of Abutment: Skeleton		Working/Not Working: 215. Overpass: IN	TERSTATE	d. Ovly Depth Cl		N		
b. Type of Found.: Steel Pilir	ng	218. Functionally Obsolete :	-	247. Protective Sy	stems:			
209. Type of Pier/Found.: 4	/ No	220. Bridge Redecked	_	_	<b> </b>			
	aft-No Footing	221. Substr.Cond.(U/W):						
210. Foundation Elev.: -1.00	-1.00	222. Fill Over RCB:	3	248. # Field Splice 249. Scour Crit. Po				
211 Wear Surf Prot Sys: None	-1.00	223. Appr.Slab/Rwy Cond.: 225. Paint Type/Ovrct: Re	ed Lead 3 Coat System	250. Headwall:				
211. Wear.Surf.Prot.Sys: None Date Installed: 01/01/190	01	N/.	•	258. Plans w/Four	020	Yes		
211c. Silane Reapplied			73	259. Scour Eval. in 263. Interchange a		_ No		
211d. Date :		1 ==	lver onventional Forming	264. Interstate Mile		120.96		
213. Utilities Attached: Power		1	urrent & Desired route					
<u> </u>		240. Appr. Rwy Type.: Co	oncrete					
<u>  </u>		243. Grdr Spacing/No.: 8.	50 / 9					
1		<del>-</del>		•				

	NBI No.:         Structure No.:           18770         5507 0071WX			Local ID:	<u>Suff. Rating:</u> 82.10	ND
Inspection Date:	8/13/20		Gary Hines			
Invoice No.:	GLH0820	Inspected With:	Gary Richardson			

### **BRIDGE NOTES:**

Four span continuous steel beam structure with spans at 47'-74'-74'-47'.

### 8/13/20 **INSPECTION NOTES:**

G Hines inspection comments - 8/13/2020

PX - Trees need cut & sprayed at the SW wing area \* Satisfactory slopewalls in most areas - minor settlement noted & buckling at the bottom is developing on the north & South below #8 beam \* There is a power line for lighting outside the West curb \* Satisfactory side drains \* The road below is the SW access road to the State Fairgrounds (seasonal traffic - low ADT) \* PX - Lots of debris needs cleaned off the seats.

ELEMENT C	CONDITION STATE DATA											
Elem. / Env	Description	Unit	Total Qty	% 1	Qty. 1	% 2	Qty. 2	% 3	Qty. 3	% 4	Qty. 4	_
12 / 4	Re Concrete Deck	sq.ft	17,109.00	92%	15,689.00	5%	800.00	4%	600.00	0%	20.00	
larg potl sma	PX - There is a large patch (asphalt) in span #3 with smaller patches elsewhere - most are at the fixed joints (2020 photos). There is a very large pothole & patch in the R.H. lane at the 9th construction joint (2008 & 2020 photos) with another one in the L.H. lane. There are spalls & potholes present at all but the 2nd construction joint (2020 photo). The 1st joint is spalled out almost the entire deck width (past photo) with a small hole at bay #2 in span #1 (2020 photo from below). Light wear in each wheel lane. Many of the spalls are filled with asphalt & need repaired with concrete. Also see SF #958.											
510 / 4	Wearing Surfaces	sq.ft	17,109.00	59%	10,009.00	38%	6,500.00	4%	600.00	0%	0.00	
407/4	PX - There is a large patch (asphalt) ir is a very large pothole & patch in the F There are spalls & potholes present at deck width (past photo) with a small he spalls are filled with asphalt & need re Steel Opn Girder/Beam	R.H. land all but to ble at ba paired w	e at the 9th cor the 2nd constri ay #2 in span #	nstruction uction joil #1 (2020	joint (2008 nt (2020 pho photo from b	& 2020 pto). The	ohotos) with 1st joint is s	another or palled out	ne in the L. almost the	H. lane. entire	0.00	
107 / 4		ft									<u>L</u>	
	- The open girders have light to heavy					m nange	s and on the	e web area	is. Some he	eavier rus	St IS	
515 / 4	sent on the webs near the joints. Needs  Steel Protective Coating	s cleane sq.ft	21,984.00	the near	0.00	0%	0.00	0%	0.00	100%	21,984.00	
0.07.1	PX - The open girders have light to he heavier rust is present on the webs ne future.	avy surf	face rust with s	scaling or	top of the b	ottom fla	nges and o	n the web	areas. Som	ne		
205 / 4	Re Conc Column	each	12.00	100%	12.00	0%	0.00	0%	0.00	0%	0.00	
The	pier columns are in good condition wit	h only n	ninor deficienc	ies noted						Te.		
215 / 4	Re Conc Abutment	ft	158.00	16%	26.00	71%	112.00	13%	20.00	0%	0.00	
the	- There is light to heavy horizontal crac 1st- 3rd- 6th & 7th pedestals on the No face finish has failed in most areas of the Steel Pile	rth. The	ere is some hea	avy spalli	ng above the	e seat at						
PX	- There is one pile visible barely visible	below t	he 8th beam o	n the So	uth abutmen	t. It has i	moderate ex	foliation o	verall.		_	
234 / 4	Re Conc Pier Cap	ft	237.00	97%	229.00	3%	7.00	0%	1.00	0%	0.00	
#2 ( #3.	ne light to moderate cracking & stains f (2020 photo). Moderate popouts at the Some minor water stains noted on each	rebar ch h cap fr	nair feet noted om joint seepa	on the bo	ttom of each	n cap be 20 photo	tween the 2i @ bent #3	nd & 3rd c	olumns in b	ents #1;	#2 and	
302 / 4	Compressn Joint Seal	ft	158.00	0%	0.00	0%	0.00	0%	0.00	100%	158.00	
(20 SO	- Both abutment joint seals have failed 10- 2012- 2014 - 2020 photos). There i ON. Very large gap at the SW shoulder	s 30ft. to	50ft. of the ar	rmor miss 21).	sing at each	joint (20	10 & 2020 p	hotos at N	orth). Need	ls rehabb	ed -	
PX area she	311 / 4 Moveable Bearing each 36.00 0% 0.00 50% 18.00 50% 18.00 0% 0.00  PX - Most abutment bearings are very rusty due to water seepage thru the joints. Some initial loss noted on several bearings - mainly lower areas (2020 photo @ #5 on South). The South abutment bearings are rotated back 15 to 20 degrees. ALL abutment bearing have some shearing of one retaining ear due to skew forces. Most have shifted 1.5in 2.0in. (2008 & 2018 photos). The #2 bearing on the North does not touch the girder until loaded (2002 photo).											
313 / 4	Fixed Bearing	each	9.00	11%	1.00	89%	8.00	0%	0.00	0%	0.00	
The	pedestal bearings on bent #2 have lig	ht to mo	derate surface	rust only	except for	one.						
The pho 331 / 4 PX	Re Conc Approach Slab  - Both approach slabs were mud jacker ere is a large spall on the South against to) & the South approach roadway has Re Conc Bridge Railing  - The SW corner has moderate damag	the dec been m ft e. The to	ck near the centilled to reduce 484.00 raffic railing ha	the bum 34% as 2 section	2020 photo). p. Repairs n 164.00 pns on the ir	The SW oted on the 60% iside that	the north shows 291.00 that have light s	ulder areas oulder sind 6%	are also b ce 2012. 29.00	roken (20	0.00	
dela	amination & about half of rest of the rail	has sca	aling & popouts	s. Still se	viceable at	this time.						

NE	NBI No.: Structure No.: Local ID: Suff. Rating:								
		7 0071WX			82.10	<b></b>	ND		
859 / 4	Soffit	(EA) 1.00	0% 0.00	100% 1.00	0.00	0% 0.00			
The	ere is a large spall & delamination in b	ay #2 of span #1 with a	a hole (2020 photo).	Light to moderate s	palls below the rail at the	e construction			
join	ts. Some minor defect noted along th	e diaphragms with othe	er minor defects (202	0 photo @ bent #3	).				
865 / 4	St.Open Gird End(5Ft	(LF) 90.00	0.00	68% 61.00	32% 29.00	0.00			
PX	- Some abutment ends (mainly #1 thi	ru #5) have light to mod	derate exfoliation & lo	ss started along th	e top & bottom flanges (2	2ft5ft. each)(			
202	0 photo @ #5 on South abut). Lots o	f heavy surface rust on	most areas of each	end (2020 photo @	bent #3). The beam end	ds at the South			
abu	tment are pressing into the backwall.	Needs cleaned & pain	ted SOON.						
870 / 4	Concrete Wingwall	(EA) 4.00	100% 4.00	0.00	0.00	0.00			
872 / 4	St.Gird Und Const.Jt	(LF) 810.00	0.00	92% 747.0	0 8% 63.00	0.00			
PX	- Many of the girder ends have light e	exfoliation & loss starte	d along the top flang	e below the constru	iction joints (2020 photo	@ bent #3).			
Mos	stly the outer beams are affected at the	nis time. Lots of heavy	surface rust on most	areas of each end.	Needs cleaned & painte	ed SOON. Loss			
not	serious at this time.								
909 / 4	Pourable Fix Jt.Seal	(LF) 635.00	0.00	22% 141.1	0 33% 211.70	44% 282.20			
PX	- There are 9 construction joints total	. There are spalls & pa	tches along each joir	it - worst are at #1-	7- 8- & 9 (photo @ #1).	Most of the			
spa	lls have been patched with asphalt. T	he sealant itself is dete	eriorated overall with	seepage evident b	elow. From 4ft to 50ft is a	affected each			
join	t - 13ft average (2020 photos @ #1; #								
957 / 4	Pack Rust Smart Flag	(EA) 1.00	100% 1.00	0.00		0.00			
Pad	k rust exists between the diaphragms	s and the beams under	the leaking joints (2)	020 photo @ bay #	2 in span #1).				
958 / 4	Concrete Cracking SF	(EA) 1.00	0.00	0.00	100% 1.00	0.00			
PX	- The deck has some light to modera	te transverse cracks th	at have not been sea	led. Some light pat	tern cracks are present i	n scattered			
area									
960 / 4	Settlement SF	(EA) 1.00	0.00	100% 1.00	0.00	0.00			
PX	<ul> <li>Due to a combination of skew &amp; roa</li> </ul>	adway forces the deck	is rotating CCW - up	to 2.5in. of offset n	oted. The abutment bear	ings are			
shif	ting out of position up to 5in In addit	ion the end panels DO	NOT have shear cor	nnectors & the pane	els are moving laterally a	t a different rate.			
Not	serious at this time - except for beari	<u> </u>							
963 / 4	Steel Section Loss SF	(EA) 1.00	0.00	100% 1.00	0.00	0.00			
Los	s to the girders or the one exposed p								
966 / 4	Exposed Abut.Piling SF	(EA) 1.00	0.00	100% 1.00		0.00			
PX	- There is one pile visible barely visib								
973 / 4	Horizontal Force SF	(EA) 1.00	0.00	0.00	100% 1.00	0.00			
The	beam ends at the South abutment a	re pressing into the bad	ckwall.						
						·			

### BRIDGE UNDER ROUTE REPORT

 NBI No.:
 Structure No.:
 Local ID:

 18770
 5507 0071WX

Bridge Description: ROUTE ON THE STRUCTURE

47ft.,2-73ft.,47ft. CONT. I-BM. SPANS SK. 72 DEG.47ft.45.65ft.

State: Oklahoma
 Division: Division 4
 County: OKLAHOMA
 City: OKLA. CITY
 Admin Area: Unknown
 Facility Carried: I-44 SB
 Location: 0.7 MI N I-40

16. Latitude: 35° 28' 14.05"

22. Owner: State

INVENTORY ROUTE

5a. On/Under: 1 Route On Structure
5b. Kind of Hwy: 1 Interstate Hwy
5c. LvI of Srvc: 1 Mainline
5d. Route No.: 00044

5e. Dir. Sufx: 0 N/A (NBI)

17. Longitude: 097° 34' 46.72"

12. Base Hwy Net.: On Base Network20. Toll Facility: On free road

26. Function Class: 11 Urban Interstate100. Def. Hwy: On Interstate STRAHNE

102. Traffic Dir.: 1-way traffic 104. Hwy System: On the NHS 105. Fed Land Hwy: N/A (NBI)

110. Defense Hwy: On Interstate STRAHNE

ROUTE UNDER THE STRUCTURE:

Roadway Name: BLACK GOLD DRIVE UNDER

INVENTORY ROUTE:

5a. Inventory Route:

5b. Kind of Highway:

5c. Level of Service:

5d. Route No.:

10. Min. Vert. Clr.: 26.1712. Base Hwy Network: Not on Base Network

13. LRS Rte./SubRte: -1 / -1 19. Detour Len.: 0.00

20. Toll Tacility: On free road26. Function Class: 16 Urban Minor Arterial

28b. Lanes Und.: 4

29. ADT: 200 32. Appr. Rwy Width: 48.00 47. Total Horiz. Clr.: 57.41 51. Roadway Width: 70.70

100. Defense Hwy: Not a STRAHNET hwy

102. Traffic Direction: 2-way traffic 104. Hwy System: Not on NHS 105. Fed. Land Hwy.: N/A (NBI)

109. Truck ADT%: 5

110. Natl. Trk Netwk: Not part of natl netwo

114. Future ADT: 320

Agency Field: 1.(Und.Rte.) U 2. (Vert. X-Ref.): -1 3. (Compass Dir.): E 4. (VC Posted N/E): 2602 5. (VC Posted S/W): 2602

Notes: