



**OKLAHOMA DEPARTMENT OF  
TRANSPORTATION**

Environmental Programs Division

Office 405 521-3050

**Automatic Categorical Exclusion (ACE)**

Date	<b>February 19, 2020</b>	Project No.	<b>SBR-209C(073)SB</b>
County	<b>Canadian</b>	State Job Piece No.	<b>32765(04)</b>
NEPA Project Manager	<b>F. Guerrero</b>	Phone Number	<b>405-522-6547</b>
ODOT Field Division	<b>4</b>	Bridge NBI No. ( <i>County &amp; State Projects</i> ) & Location No. ( <i>County Projects Only</i> )	<b>NBI: 12629 &amp; 12630</b>
Project Description from JPINFO	<b>BRIDGE REHABILITATION SH-66; WB &amp; EB OVER SHELL CREEK, APPROX. 8.2 MILES EAST OF US-81 JCT.</b>		
Description of the Proposed Action	<b>Bridges NBI 12629 and 12630 will have substructures along with the piers repaired and full deck replacement as well as addressing slope walls of the bridges and creek bed. The new clear approach roadway width of both bridges will be 38 ft. wide with two 12 ft. driving lanes that have a 4 ft. paved inside shoulder and 10 ft. paved outside shoulder. Roadway will remain open utilizing crossovers in the center median.</b>		
This action falls within the following item identified in 23 CFR 771.117( c) as qualifying for ACE ( <i>LIST THE 23 CFR 771.117(C ) ITEM NUMBER</i> ):			<b>22</b>
This project is included in: ( <i>Check all applicable ones</i> )	<input type="checkbox"/>	State 8 Year Construction Program	
	<input type="checkbox"/>	County 5 Year Construction Program	
	<input type="checkbox"/>	State Transportation Improvement Program	
This project is in the Metropolitan Transportation Improvement Program (If applicable) ( <i>Check applicable one</i> )	<input type="checkbox"/>	YES	
	<input checked="" type="checkbox"/>	NOT APPLICABLE	
This project involves one or more items in Appendix A of the 2019 ODOT/FHWA Programmatic Agreement for CE Processing that would render this project ineligible for automatic certification apply to this action.	<input type="checkbox"/>	YES. If the answer is YES, an Individual CE will have to be prepared for this project.	
	<input checked="" type="checkbox"/>	NO	

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:

Tree Removal Minimization Note: 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. The Resident Engineer shall ensure that limits of tree removal are clearly defined for the contractor.

The action may involve work in potentially jurisdictional waters and potentially jurisdictional wetlands. For State Projects, the 404 permit application form needs to be submitted by the Designer through Project Management Division to Environmental Programs Division at the time of Right-of-Way submittal for evaluation and determination of the appropriate Clean Water Act Section 404 permit application for the project. For Local Government Projects or Special Projects, a copy of the 404 permit obtained by the County/City should be submitted by Local Government Division or Special Projects to Environmental Programs Division for the Project File.

Clarence E Page Municipal Airport is located within 4 miles of this project. This action may require notifying the Federal Aviation Administration (FAA) of proposed construction via FAA Form 7460-1 prior to construction.

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.

**None Required.**

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.

**Locations outside the project area in the following area must not be utilized for borrow, equipment staging, haul roads, spoil dumps or any off-site project-related activity.**

**T12N R6W:**

**Section 13: S ½ S ½**

**Whooping Crane Plan Note: If Whooping Cranes are seen at or within one mile of the proposed work site, the Resident Engineer shall immediately contact the ODOT Biologist at 405-210-3671. If there is a confirmed siting and/or Whooping Cranes are observed within one mile of the proposed work site, all construction activities shall cease until it is determined that Whooping Cranes have left the project vicinity without being harassed.**

**Bald Eagle Note: Suitable nesting, roosting or foraging habitat for the Bald Eagle occurs within the project's action area. The Bald Eagle nesting season in Oklahoma extends from September 16, through May 31. The Resident Engineer shall contact the ODOT Biologist at 405-210-3671 to schedule a nest survey. Nest search surveys can only be conducted when leaves are not on the trees typically between December 1st and February 28th. No work may occur within suitable Bald Eagle habitat located between STA. 185+67.00 to 211+50.00 during the nesting season (September 16, through May 31) until the completion of the survey by the ODOT Biologist. If nests are observed, a no-work buffer up to a distance of 660 feet shall be placed around the nest. The exact distance of the buffer zone shall be established by**

the ODOT Biologist in consultation with US Fish and Wildlife Services. If the buffer cannot be maintained, all clearing, external construction and landscaping activities, within the buffer, shall be conducted between June 1 and September 15 (outside the nesting season).

**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-beam span on SH-66 (westbound) over Shell Creek (NBI#: 12629) was observed. 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. If painting, repair, retrofit, rehabilitation or demolition cannot be completed between September 1 and February 28, the bridges and culverts 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 at 405-210-3671 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).

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.

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**

Environmental Consultant(If Applicable)	Date
Environmental Consultant Firm Name (If Applicable)	Date
County Commissioner or City Manager (For Local Government Projects)	Date
Environmental Project Manager	Date
Assistant Environmental Programs Division Engineer	Date

Attachments:

1. Location Map
2. Current Plans and Study Footprint
3. Studies and Coordination
4. Other Section– Initiation and Inspection Reports/NEPA Submittal Checklist, NEPA Oracle Status Report

Distribution List (Check Applicable Ones)

<input checked="" type="checkbox"/>	Project Management Division (All State Projects)
<input checked="" type="checkbox"/>	Roadway Design Division (All State projects with the exception of projects from Traffic Division and Special Projects)
<input checked="" type="checkbox"/>	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)
<input checked="" type="checkbox"/>	Field Division Engineer (All Projects)
<input checked="" type="checkbox"/>	Right-of-Way Division (All Projects)
<input checked="" type="checkbox"/>	Office Engineer Division (All Projects)

THIS DOCUMENT IS PRELIMINARY  
IN NATURE AND IS NOT A FINAL,  
SIGNED AND SEALED DOCUMENT.  
6/10/2019

**FINAL FIELD MEETING**  
6/10/2019

FOR SURVEY CONTROL DATA,  
SEE SURVEY DATA SHEETS

STATE OF OKLAHOMA  
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED  
**STATE HIGHWAY**  
PROJECT NO. SBR-209C(073)SB  
BRIDGE REHABILITATION  
SH - 66 OVER SHELL CREEK  
**CANADIAN COUNTY**

CONTROL SECTION NO. 66-09-06  
STATE JOB NO. 32765(04)

BRIDGE A LOCATION NO. 0906-0819SX EXISTING NBI NO. 12630  
BRIDGE B LOCATION NO. 0906-0819NX EXISTING NBI NO. 12629

THE FOLLOWING STANDARD DRAWINGS WILL BE NEEDED:

ROADWAY	TRAFFIC CONTROL	BRIDGE	TRAFFIC SAFETY
SSS-1-1	TCS1-1-01 TCS10-1-00	HP1-2-01E	THRI-1-02
TSC2-3-2	TCS2-1-00 TCS11-1-01	TR4-2-00E	SKT-1-00
TSD-2-0	TCS3-1-01 TCS14-1-00	EJ-SK-04E	DU2-1-00
ASCD-5-2	TCS4-1-01 TCS18-1-01	EJ-DTL-02E	GMS1-1-00
LECS-4-2	TCS5-1-00 TCS19-1-01	B040-C-ABUT-MISC-01E	GMS2-1-00
PSE-1-0	TCS6-1-02 TCS20-1-00	B040-STL-BM-BRACING-00E	SSP1-1-02
PCES-4-1	TCS7-1-02 TCS21-1-02		SSA1-1-00
SPI-4-1	TCS8-1-00 TCS22-1-00		
SPB-1-4	TCS9-1-01 TCS24-1-02		
PHTCP-3-1			
MI-3-2			
PUD-3-3			

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AR02	ROADWAY PAY ITEMS & NOTES
AT01	TRAFFIC PAY ITEMS & NOTES
AX01-AX02	SUMMARIES

BRIDGE DRAWINGS

BRIDGE A	
B001	GENERAL PLAN AND ELEVATION
B002-B003	SUBSURFACE PROFILE
B004	SUBSTRUCTURE STAKING DIAGRAM
B005-B008	ABUTMENT DETAILS
B009-B010	PIER DETAILS
B011	BEARING DETAILS
B012	FRAMING PLAN
B013	ROLLED BEAM DETAILS
B014-B015	DIAPHRAGM DETAILS
B016-B018	DECK SLAB DETAILS
B019	SLOPE DRAIN DETAILS
B020	APPROACH SLAB DETAILS

BRIDGE B	
B021	GENERAL PLAN AND ELEVATION
B022-B023	SUBSURFACE PROFILE
B024	SUBSTRUCTURE STAKING DIAGRAM
B025-B028	ABUTMENT DETAILS
B029-B030	PIER DETAILS
B031	BEARING DETAILS
B032	FRAMING PLAN
B033	ROLLED BEAM DETAILS
B034-B035	DIAPHRAGM DETAILS
B036-B038	DECK SLAB DETAILS
B039	SLOPE DRAIN DETAILS
B040	APPROACH SLAB DETAILS

ROADWAY DRAWINGS

R001	DRAINAGE MAP
R002	STORM WATER MANAGEMENT PLAN
R003-R004	EROSION CONTROL
R005-R006	PLAN & PROFILE - SH 66
R007	GUARDRAIL LAYOUT

TRAFFIC DRAWINGS

T001	SIGNING & STRIPING
T002-T004	SUGGESTED CONSTRUCTION SEQUENCE
T005-T008	TRAFFIC CONTROL

SURVEY DRAWINGS

S001-S006	SURVEY DATA SHEETS
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CROSS SECTIONS

X001-X020	CROSS SECTIONS - SH 66
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**DESIGN DATA**

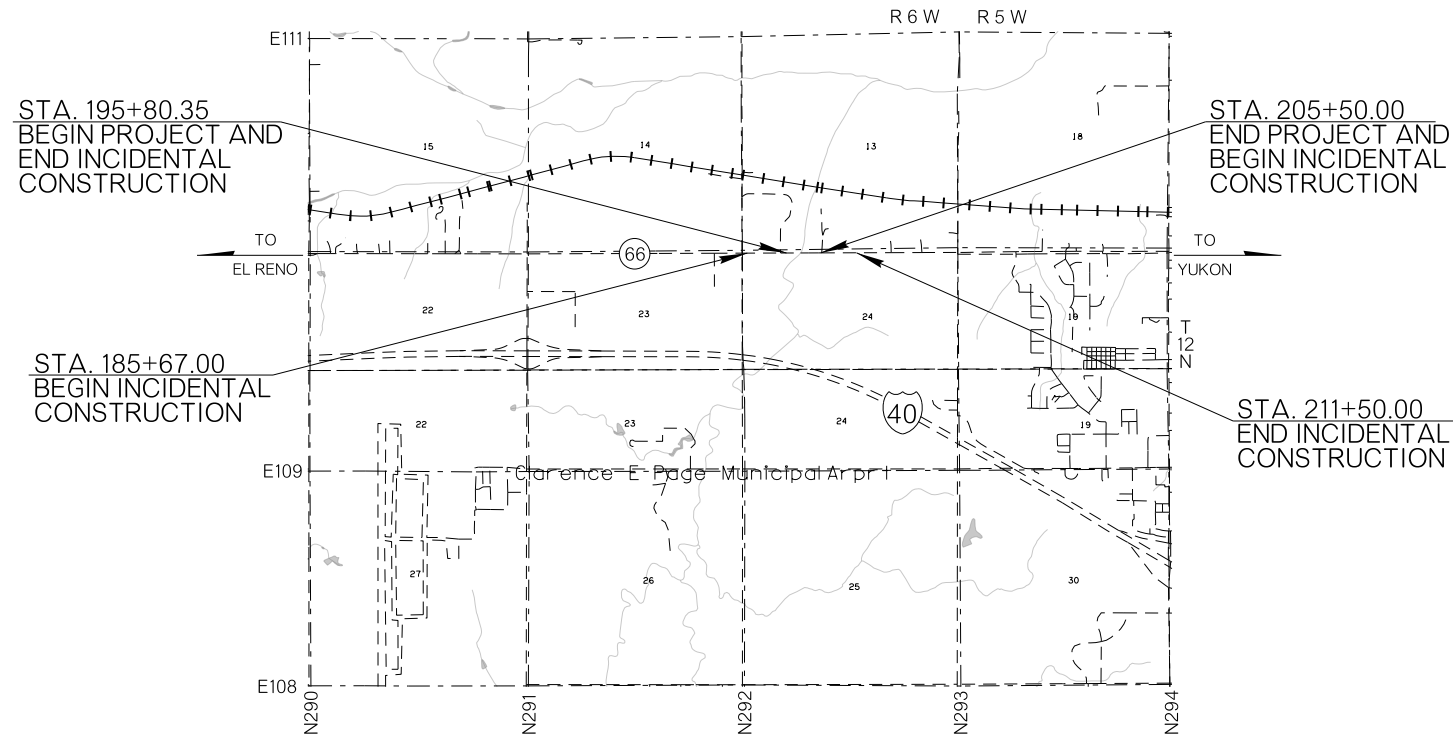
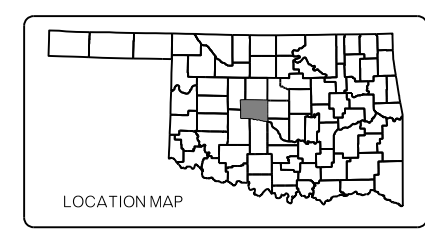
ADT 2015	= 5,700
ADT 2035	= 9120
D (EASTBOUND)	= 54%
T (% ADT)	= 15%
V	= 55MPH

**SCALES**

PLAN	1" = 100'
PROFILE HOR.	1" = 100'
VER.	1" = 10'
LAYOUT MAP	1" = 5,280'

CONVENTIONAL SYMBOLS

	PROPOSED ROAD
	RAILROADS
	RANGE & TOWNSHIP
	SECTION LINES
	QUARTER SECTION LINES
	EXISTING FENCE
	PROPOSED FENCE
	GROUND LINE
	EXISTING ROADS
	BASE LINE
	GRADE LINES
	TELEPHONE & TELEGRAPH
	POWER LINES
	BUILDINGS
	OIL WELL
	DRAINAGE STRUCTURES - IN PLACE
	DRAINAGE STRUCTURES - NEW
	RIGHT-OF-WAY LINES - EXISTING
	RIGHT-OF-WAY LINES - NEW
	CONTROLLED ACCESS
	RIGHT-OF-WAY FENCE



BEGIN STA. 198+67.78	
LENGTH = 163.31'	BRIDGE "A"
END STA. 200+31.09	
BEGIN STA. 198+98.95	
LENGTH = 163.32'	BRIDGE "B"
END STA. 200+62.27	

NOTE: PROJECT LENGTH BASED ON EASTBOUND SH-66 (CRL STATIONING)

ROADWAY LENGTH	806.34	FT.	0.153	MI.
BRIDGE LENGTH	163.31	FT.	0.031	MI.
PROJECT LENGTH			0.184	MI.

EQUATIONS : NONE  
EXCEPTIONS : NONE

2009 OKLAHOMA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION GOVERN, APPROVED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION, JANUARY 4, 2010.

HNTB CORPORATION 101 N. ROBINSON, SUITE 1130 OKLAHOMA CITY, OK 73102 (405) 416-9000	A. ENGINEER, P.E. OKLA. LIC. NO. XXXXX	
DATE APPROVED	DATE APPROVED	
BY	BY	
CHIEF ENGINEER	DIVISION ADMINISTRATOR	
SWO 5385	PROJECT NO. 32765(04)	
COUNTY CANADIAN	HIGHWAY SH-66	SHEET NO. 001

# **PLANS OR FOOTPRINTS**

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6/10/2019

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PHTCP-3-1			
MI-3-2			
PUD-3-3			

**DESIGN DATA**

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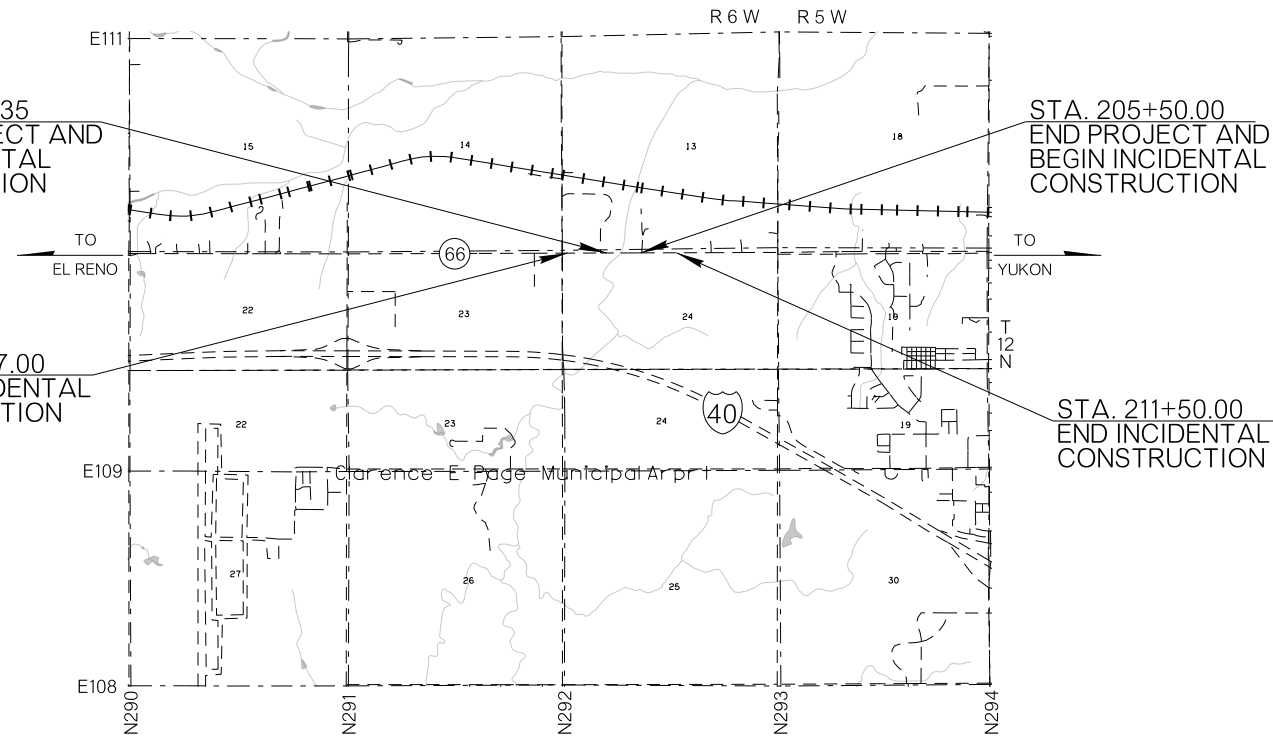
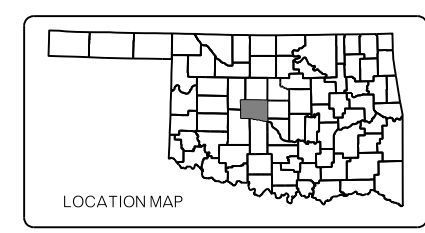
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HNTB CORPORATION 101 N. ROBINSON, SUITE 1130 OKLAHOMA CITY, OK 73102 (405) 416-9000		A. ENGINEER, P.E. OKLA. LIC. NO. XXXXX		
DATE		DATE		
OKLAHOMA DEPARTMENT OF TRANSPORTATION		DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION		
DATE APPROVED		DATE APPROVED		
BY	CHIEF ENGINEER	BY	DIVISION ADMINISTRATOR	
SWO	5385	PROJECT NO.	32765(04)	
COUNTY	CANADIAN	HIGHWAY	SH-66	SHEET NO. 001

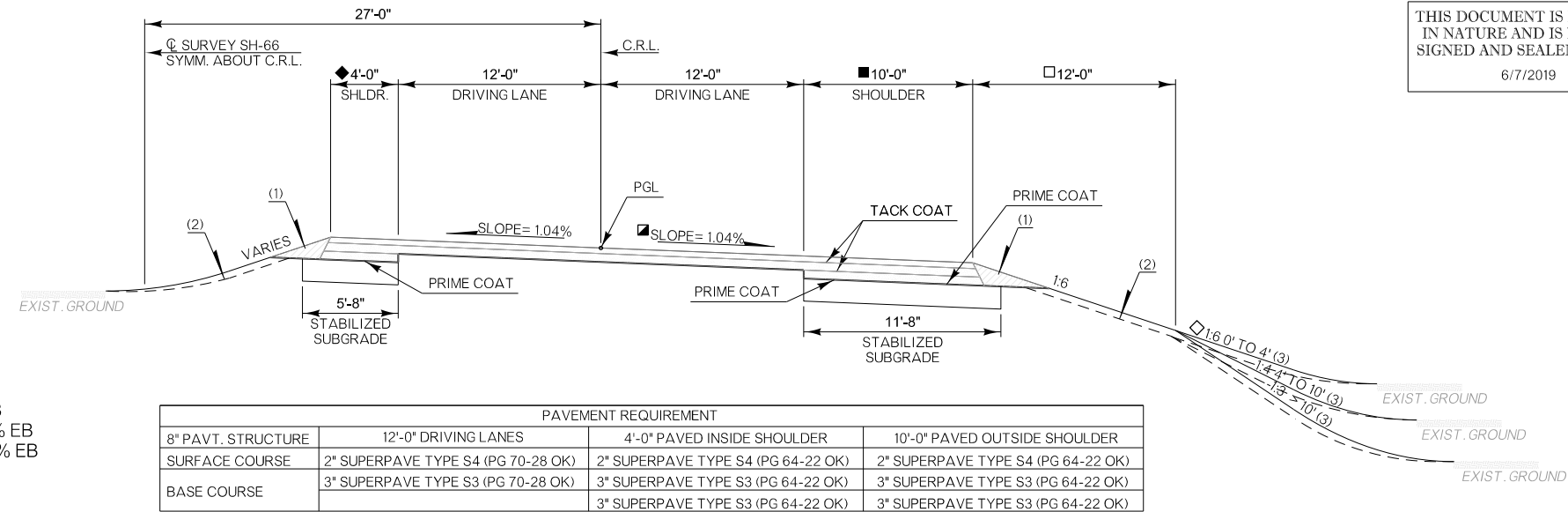
- STA. 196+15.00 TO STA. 196+25.00 - TRANSITION 0.6' - 0.0' WB LT  
 STA. 196+25.00 TO STA. 197+49.00 - TRANSITION 0.0' - 0.0' WB LT  
 STA. 197+49.00 TO STA. 198+69.09 - TRANSITION 0.0' - 10.0' WB LT  
 STA. 200+60.95 TO STA. 201+81.00 - TRANSITION 10.0' - 0.0' EB RT  
 STA. 201+81.00 TO STA. 202+45.00 - TRANSITION 0.0'-0.0' EB RT  
 STA. 202+45.00 TO STA. 202+50.00 - TRANSITION 0.0' - 0.3' EB RT

- ◆ STA. 196+15.00 TO STA. 196+20.02 - TRANSITION 0.2' - 0.0' WB RT  
 STA. 196+20.02 TO STA. 198+21.03 - TRANSITION 0.0' - 0.0' WB RT  
 STA. 198+21.03 TO STA. 198+69.09 - TRANSITION 0.0' - 4.2' WB RT  
 STA. 202+03.97 TO STA. 202+50.00 - TRANSITION 4.0' - 0.0' EB LT

- STA. 196+15.00 TO STA. 199+10.75 - 10' WB LT

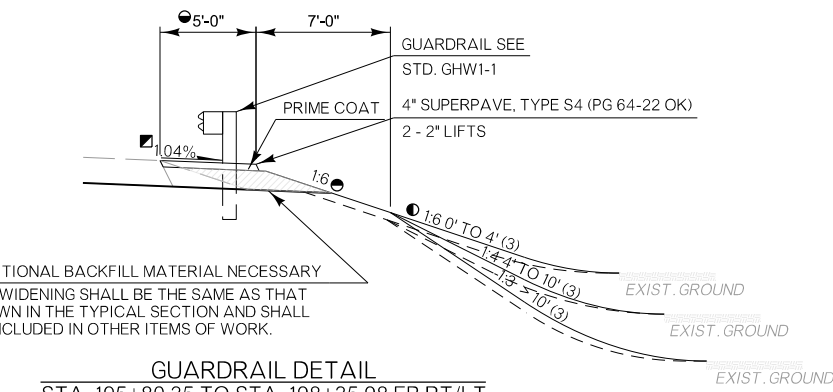
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 STA. 198+67.00 TO STA. 201+40.00 - TRANSITION 1:3 - 1:3 WB LT  
 STA. 201+40.00 TO STA. 201+90.00 - TRANSITION 1:3 - 1:4 WB LT

- STA. 196+15.00 TO STA. 196+50.00 - TRANSITION 2.30% - 1.04% WB  
 STA. 202+30.00 TO STA. 202+50.00 - TRANSITION 1.04% - 1.78% WB  
 STA. 196+45.00 TO STA. 196+70.00 - TRANSITION (-1.95)% - (-1.04)% EB  
 STA. 202+35.00 TO STA. 202+50.00 - TRANSITION (-1.04)% - (-0.49)% EB



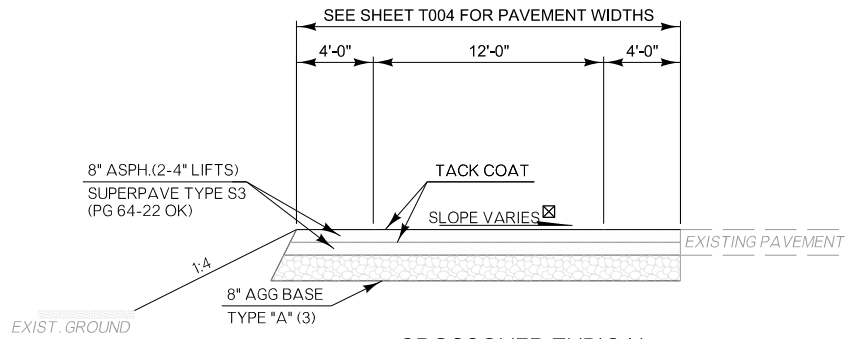
PAVEMENT REQUIREMENT			
8" PAVT. STRUCTURE	12'-0" DRIVING LANES	4'-0" PAVED INSIDE SHOULDER	10'-0" PAVED OUTSIDE SHOULDER
SURFACE COURSE	2" SUPERPAVE TYPE S4 (PG 70-28 OK)	2" SUPERPAVE TYPE S4 (PG 64-22 OK)	2" SUPERPAVE TYPE S4 (PG 64-22 OK)
BASE COURSE	3" SUPERPAVE TYPE S3 (PG 70-28 OK)	3" SUPERPAVE TYPE S3 (PG 64-22 OK)	3" SUPERPAVE TYPE S3 (PG 64-22 OK)

**TYPICAL NO. 1**  
 STA. 196+15.00 TO STA. 198+69.09 WB  
 STA. 196+45.00 TO STA. 198+35.98 EB  
 STA. 200+94.07 TO STA. 202+50.00 WB  
 STA. 200+94.07 TO STA. 202+50.00 EB

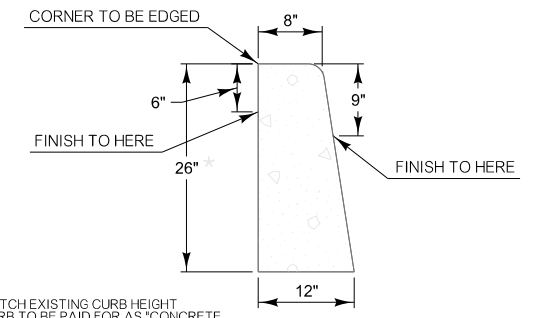


**GUARDRAIL DETAIL**  
 STA. 195+80.35 TO STA. 198+35.98 EB RT/LT  
 STA. 200+94.07 TO STA. 202+50.00 WB LT  
 STA. 200+94.07 TO STA. 202+77.74 WB RT

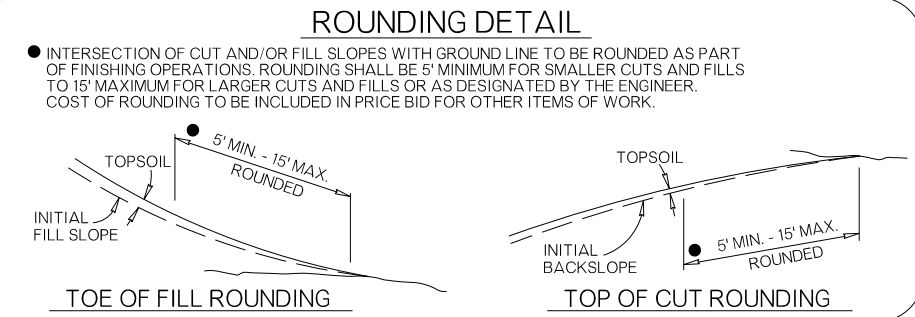
- STA. 195+80.35 TO STA. 196+45.00 - TRANSITION 0.0' - 11.3' EB RT  
 STA. 195+80.35 TO STA. 196+45.00 - TRANSITION 0.0' - 7.1' EB LT  
 STA. 196+45.00 TO STA. 196+60.35 - TRANSITION 2.3' - 5.0' EB RT  
 STA. 196+45.00 TO STA. 196+60.35 - TRANSITION 3.3' - 5.0' EB LT  
 STA. 202+40.00 TO STA. 202+50.00 - TRANSITION 5.0' - 0.0' WB LT
- STA. 197+82.00 TO STA. 198+02.00 - TRANSITION 1:6 - 1:4 EB RT  
 STA. 198+02.00 TO STA. 198+12.00 - TRANSITION 1:4 - 1:3 EB RT  
 STA. 198+12.00 TO STA. 198+56.00 - TRANSITION 1:3 - 1:2 EB RT
- STA. 200+20.00 TO STA. 201+50.00 - TRANSITION 1:3 - 1:3 EB RT  
 STA. 201+50.00 TO STA. 201+75.00 - TRANSITION 1:3 - 1:4 EB RT  
 STA. 200+74.07 TO STA. 201+00.00 - TRANSITION 1:3 - 1:3 WB LT  
 STA. 201+00.00 TO STA. 201+10.00 - TRANSITION 1:3 - 1:6 WB LT
- STA. 195+80.35 TO STA. 196+45.00 - TRANSITION (-1.95)% - (-1.95)% EB LT/RT  
 STA. 196+45.00 TO STA. 196+70.00 - TRANSITION (-1.95)% - (-1.04)% EB LT/RT  
 STA. 200+94.07 TO STA. 201+19.07 - TRANSITION (-1.04)% - 2.00% WB RT  
 STA. 201+19.07 TO STA. 202+50.00 - TRANSITION 2.00% - 2.00% WB RT



**CROSSOVER TYPICAL**  
 STA. 186+00.00 TO STA. 192+65.80  
 STA. 205+50.00 TO STA. 211+15.80  
 ☒ SEE CROSS SECTIONS FOR PAVEMENT SLOPES



**CURB DETAIL**  
 STA. 196+15.00 TO STA. 198+69.09 WB RT  
 STA. 202+03.97 TO STA. 202+50.00 EB LT



**ROUNDING DETAIL**  
 ● INTERSECTION OF CUT AND/OR FILL SLOPES WITH GROUND LINE TO BE ROUNDED AS PART OF FINISHING OPERATIONS. ROUNDED 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 ROUNDED TO BE INCLUDED IN PRICE BID FOR OTHER ITEMS OF WORK.

(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.

(3) PRIME COAT ON TOP OF AGGREGATE BASE.

DESIGN	RBH	5/19	OKLAHOMA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION
DRAWN	RBH	5/19	
CHECKED			
APPROVED			
SQUAD			
COUNTY	HIGHWAY	STATE JOB NO.	SHEET NO. 002

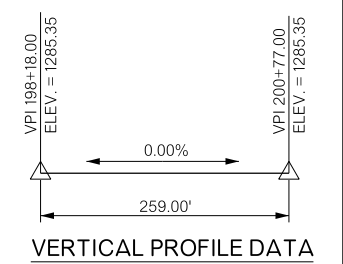
**TYPICAL SECTION**

p:\pw-int\hmb.org\pwc\central\div\documents\kansas city projects\66430 - ODOT SBRIDS001\_86 over shell CreekPlanProduction\Roadway\002-3276504-Typical.dgn  
 6/7/2019

REVISIONS		
REV. NO.	DESCRIPTION	DATE

**HYDRAULIC SUMMARY**

TOTAL DRAINAGE AREA	=	22.41 SQ. MI.	
CONTROLLED DRAINAGE AREA	=	0.00 SQ. MI.	
EFFECTIVE DRAINAGE AREA	=	22.41 SQ. MI.	
<b>FREQ.</b>	<b>Q (CFS)</b>	<b>CHW (FT.)</b>	<b>V (FPS)</b>
2	1080	1272.10	2.12
5	2230	1275.79	2.68
10	3330	1278.00	3.18
25	5150	1279.73	4.27
50	6740	1280.76	5.14
100	8390	1281.67	6.00
500	13500	1284.92	9.68
CONTRACTION SCOUR (100 YEAR)		=	11.84 FT.
PIER SCOUR (100 YEAR)		=	5.56 FT.
TOTAL SCOUR (100 YEAR)		=	21.07 FT. (PIER NO. 2)



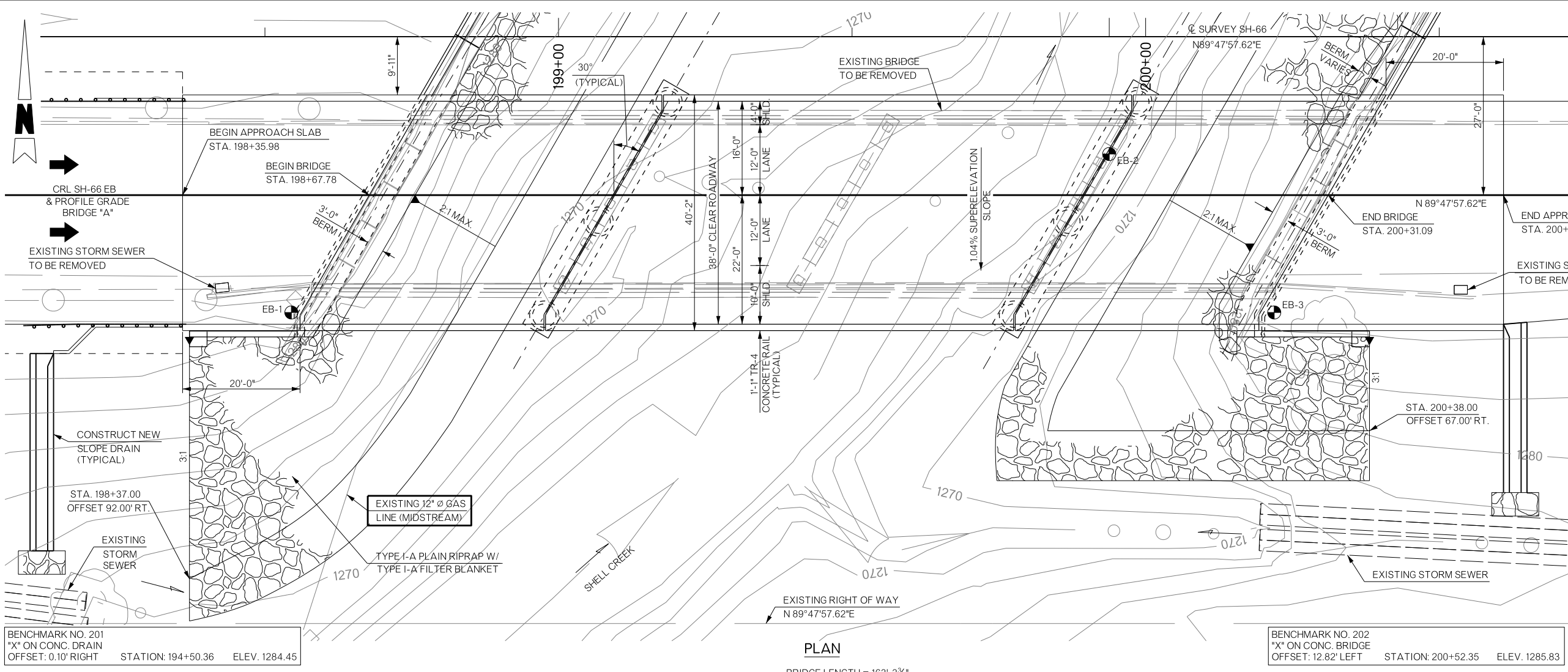
**DESIGN DATA**

**DESIGN UNIT STRESSES**  
 CLASS AA CONCRETE  $f_c = 4,000$  PSI  
 CLASS A CONCRETE  $f_c = 3,000$  PSI  
 CLASS C CONCRETE  $f_c = 4,000$  PSI  
 REINFORCING STEEL (GRADE 60)  $f_y = 60,000$  PSI  
 STRUCTURAL STEEL M270 (GRADE 50W)  $f_y = 50,000$  PSI  
 STAINLESS STEEL A240 (TYPE 316)  $f_y = 30,000$  PSI

**LOADING:**  
 HL-93 OR 175-4BM (ODOT OVERLOAD)  
 20 PSF FUTURE WEARING SURFACE  
 5 PSF STAY-IN-PLACE FORMS

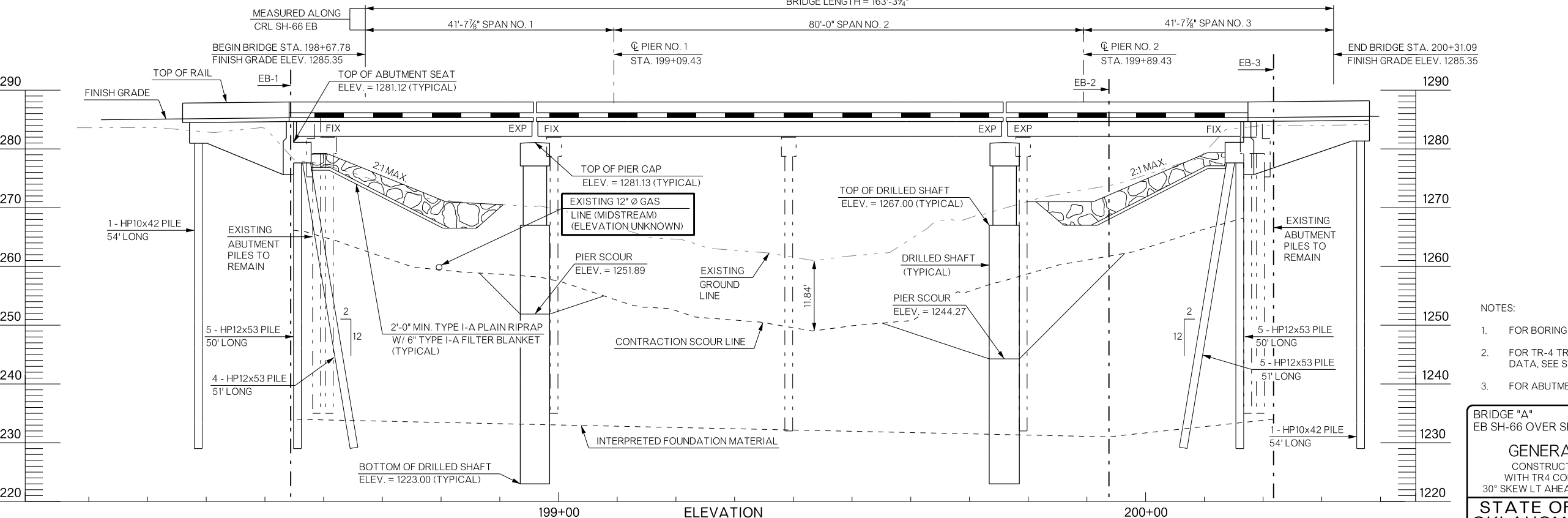
**DESIGN:**  
 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION  
 ANSI/AASHTO/AWS D 1.5 BRIDGE WELDING CODE  
 STAINLESS STEEL WELDING CODE

**RATING:**  
 LRFR INVENTORY RATING FACTOR: 1.35  
 LRFR OPERATING RATING FACTOR: 1.75  
 LRFR PERMIT RATING FACTOR: 1.63



**PLAN**

BRIDGE LENGTH = 163'-3 3/4"



**ELEVATION**

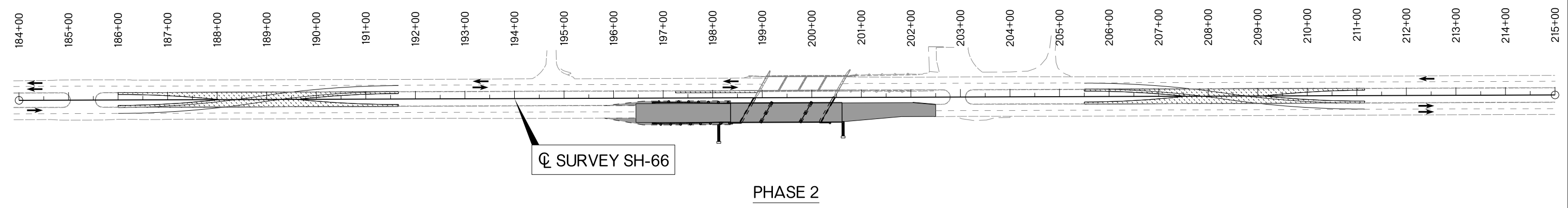
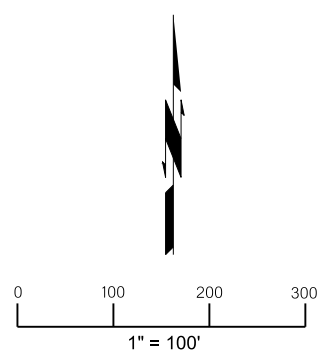
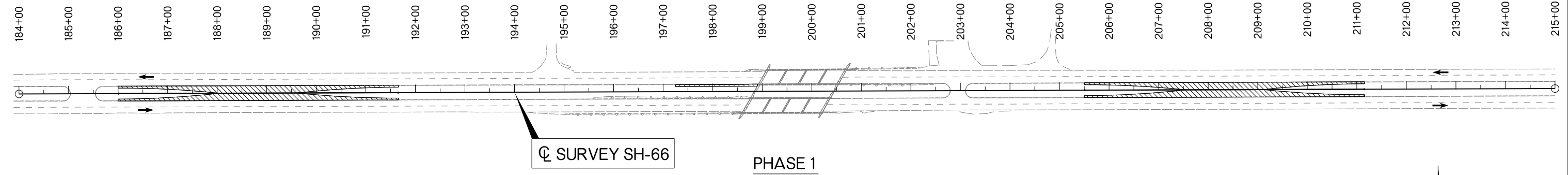
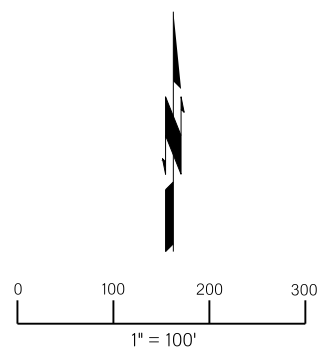
INDEX OF BRIDGE SHEETS	
NO.	DESCRIPTION
B001	GENERAL PLAN & ELEVATION
B002-B003	SUBSURFACE PROFILE
B004	SUBSTRUCTURE STAKING DIAGRAM
B005-B006	ABUTMENT NO. 1 DETAILS
B007-B008	ABUTMENT NO. 2 DETAILS
B009-B010	PIER DETAILS
B011	BEARING DETAILS
B012	FRAMING PLAN
B013	ROLLED BEAM DETAILS
B014-B015	DIAPHRAGM DETAILS
B016-B018	DECK SLAB DETAILS
B019	SLOPE DRAIN DETAILS
B020	APPROACH SLAB DETAILS

- NOTES:**
- FOR BORING PROFILES, SEE SUBSURFACE PROFILE SHEETS.
  - FOR TR-4 TRAFFIC RAIL LAYOUT, TYPICAL RIPRAP SECTION AND FOUNDATION DATA, SEE SUBSTRUCTURE STAKING DIAGRAM.
  - FOR ABUTMENT AND PIER FOUNDATION DATA, SEE ABUTMENT AND PIER SHEETS.

BRIDGE "A" EB SH-66 OVER SHELL CREEK		CANADIAN COUNTY	
Design	WJS	5/19	
Detail	KNB	5/19	
Check	WJS	5/19	
Squad	THOMAS		
Engr.	THOMAS		
<b>STATE OF OKLAHOMA</b>		<b>DEPARTMENT OF TRANSPORTATION</b>	
JOB/PIECE NO.	32765(04)	SHEET NO.	B001



REVISIONS		
REV. NO.	DESCRIPTION	DATE

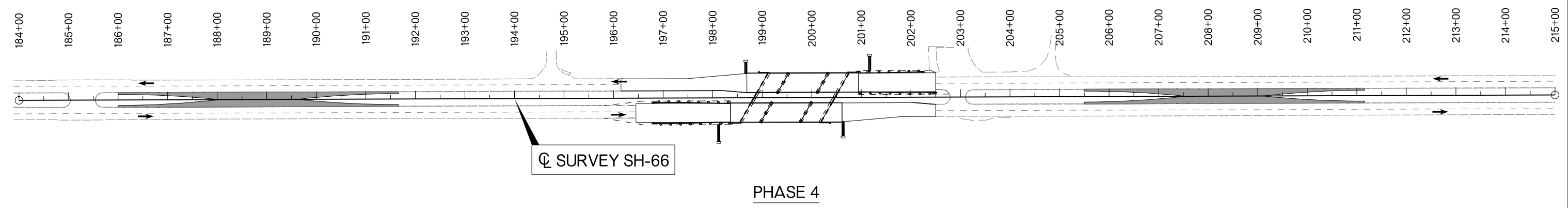
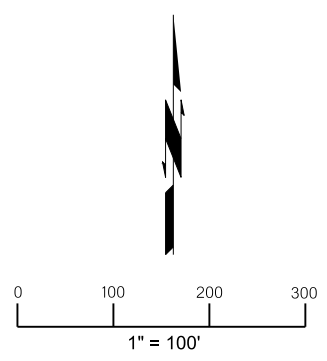
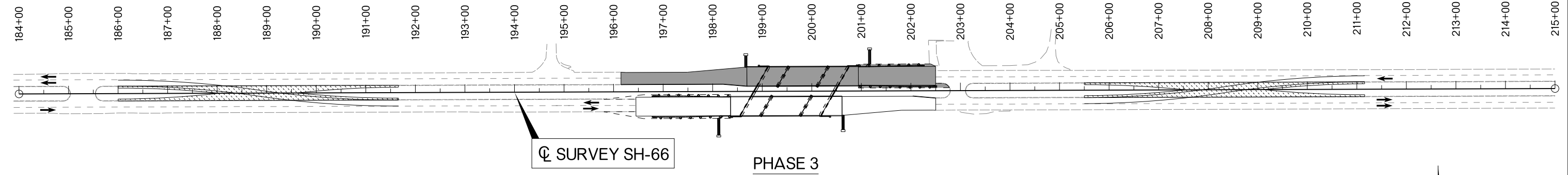
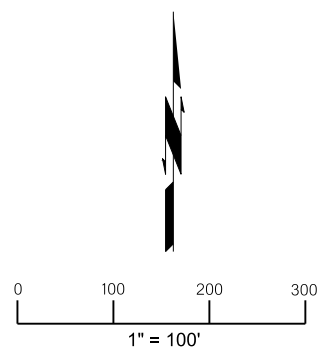


**LEGEND**

	CONSTRUCTION
	TEMPORARY CONSTRUCTION
	COMPLETED CONSTRUCTION
	COMPLETED TEMPORARY CONSTRUCTION

DIVISION 4 SH-66	CANADIAN COUNTY	DETAIL: MLB	01-19
SUGGESTED CONSTRUCTION SEQUENCE (1)		CHECK: KWR	05-19
		GROUP: EM	
STATE OF OKLAHOMA		DEPARTMENT OF TRANSPORTATION	
JOB/PIECE NO. 32765(04)		SHEET NO. T002	

REVISIONS		
REV. NO.	DESCRIPTION	DATE

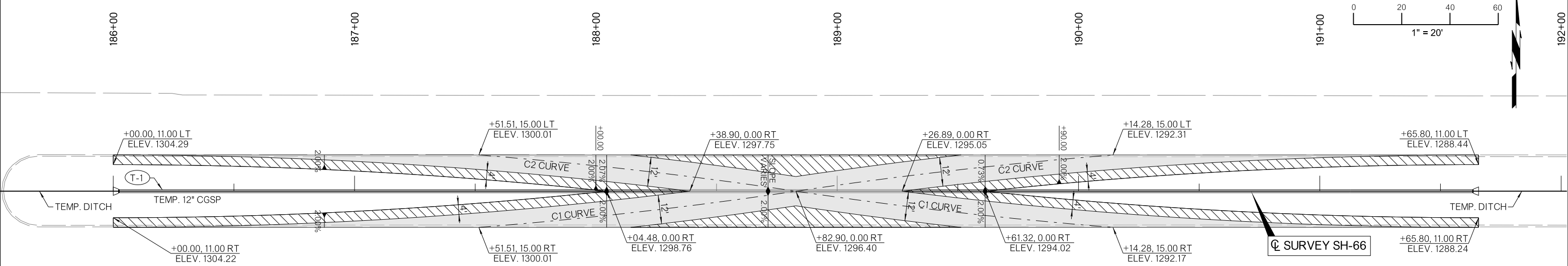
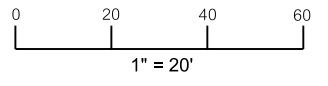


**LEGEND**

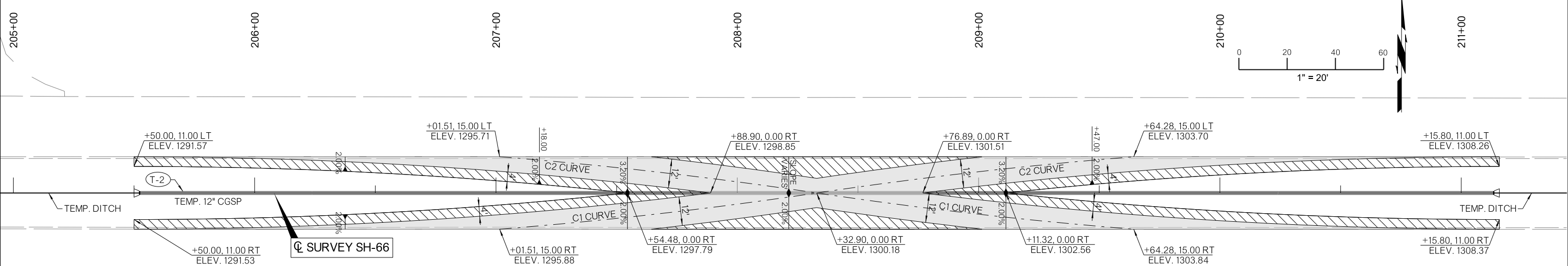
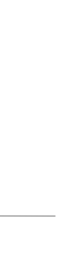
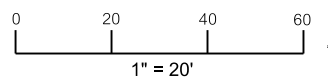
	CONSTRUCTION
	TEMPORARY CONSTRUCTION
	COMPLETED CONSTRUCTION
	COMPLETED TEMPORARY CONSTRUCTION

DIVISION 4 SH-66	CANADIAN COUNTY	DETAIL: MLB	01-19
SUGGESTED CONSTRUCTION SEQUENCE (2)		CHECK: KWR	05-19
		GROUP: EM	
STATE OF OKLAHOMA	DEPARTMENT OF TRANSPORTATION	JOB/PIECE NO. 32765(04)	SHEET NO. T003

REVISIONS		
REV. NO.	DESCRIPTION	DATE



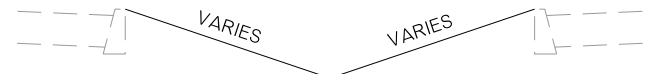
WEST CROSSOVER



EAST CROSSOVER

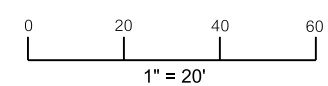
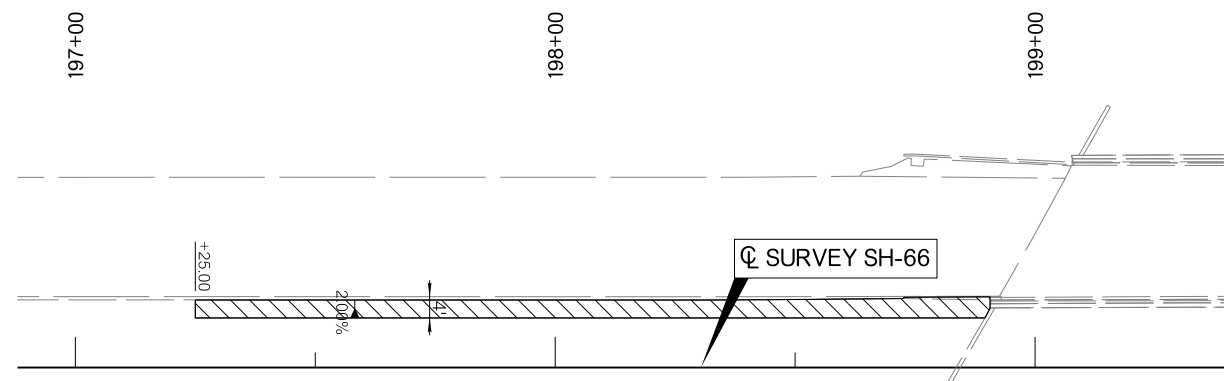
CURVE DATA NO. C1  
 $\Delta = 8^\circ 29' 26.77''$  LT  
 $D = 2^\circ 59' 25.39''$   
 $T = 142.23'$   
 $L = 283.94'$   
 $R = 1916.00'$   
 $E = 5.27'$   
 $V = 55$  MPH  
 $S = NC$

CURVE DATA NO. C2  
 $\Delta = 8^\circ 29' 26.77''$  RT  
 $D = 2^\circ 59' 25.39''$   
 $T = 142.23'$   
 $L = 283.94'$   
 $R = 1916.00'$   
 $E = 5.27'$   
 $V = 55$  MPH  
 $S = NC$



TEMP. DITCH DETAIL  
 GRADE V-DITCH TO MAINTAIN TEMPORARY DRAINAGE

BEG. STA.	ELEV.	END STA.	ELEV.
185+67	1305.63	186+00	1301.50
191+66	1285.59	194+44	1284.48
204+05	1287.35	205+50	1288.80
211+16	1305.57	211+50	1308.99

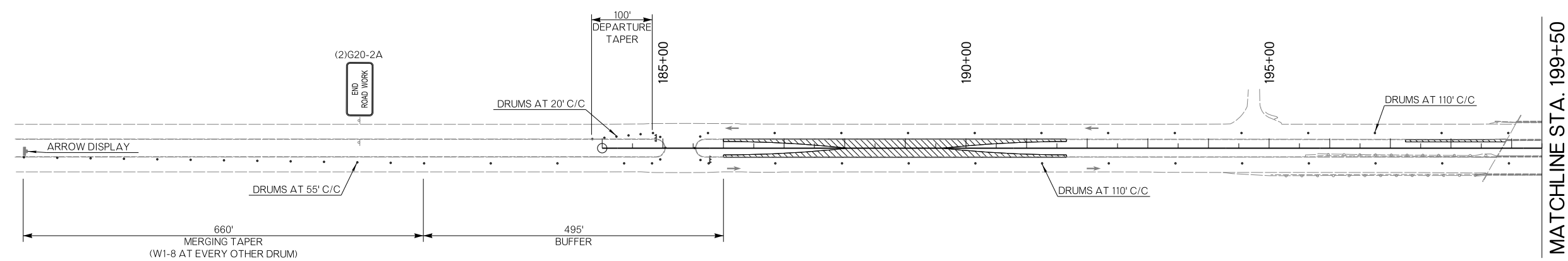
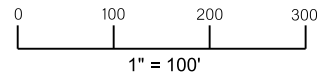


1" = 20'

- LEGEND
- TEMPORARY ROADWAY
  - TEMPORARY SHOULDER

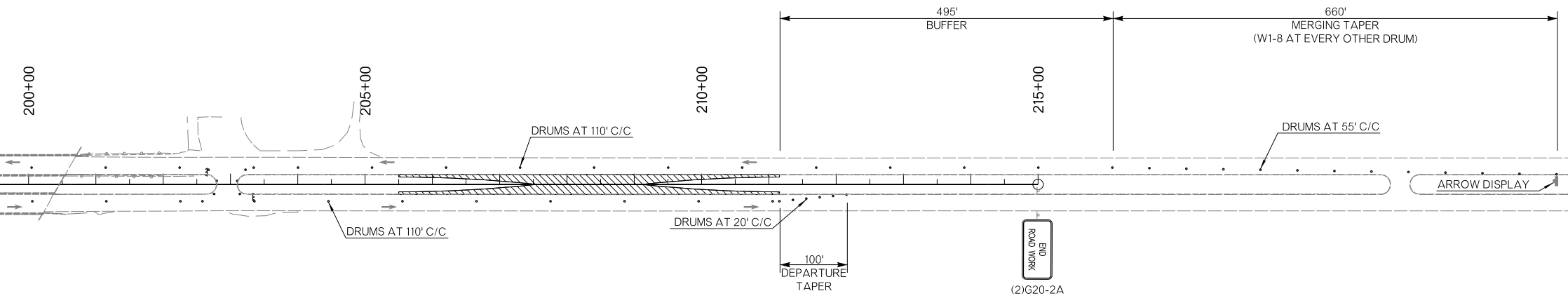
DIVISION 4 SH-66	CANADIAN COUNTY	DETAIL: KWR 05-19
SUGGESTED CONSTRUCTION SEQUENCE (3)		CHECK: RBH 05-19
		ENGINEER: KWR 05-19
STATE OF OKLAHOMA		DEPARTMENT OF TRANSPORTATION
JOB/PIECE NO. 32765(04)		SHEET NO. T004

REVISIONS		
REV. NO.	DESCRIPTION	DATE

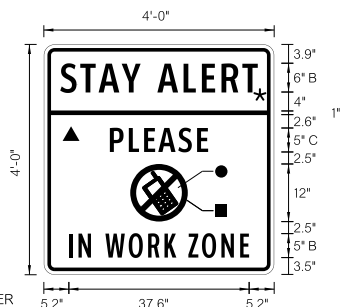


MATCHLINE STA. 199+50

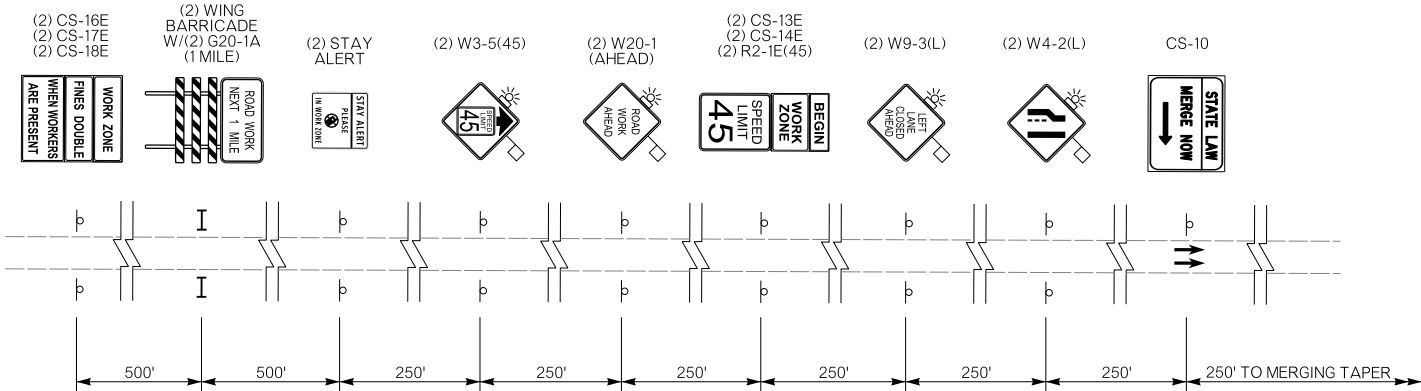
MATCHLINE STA. 199+50



**PHASE 1**



- BORDER  
R=1.5"  
TH=0.75"  
IN=0.75"
- COLOR:  
LEGEND, SYMBOL AND BORDER  
BLACK (NON-REFLECTORIZED)  
BACKGROUND:  
▲ FLUORESCENT ORANGE (REFLECTORIZED)  
★ FLUORESCENT YELLOW (REFLECTORIZED)  
● WHITE (REFLECTORIZED)  
■ RED (TRANSPARENT)



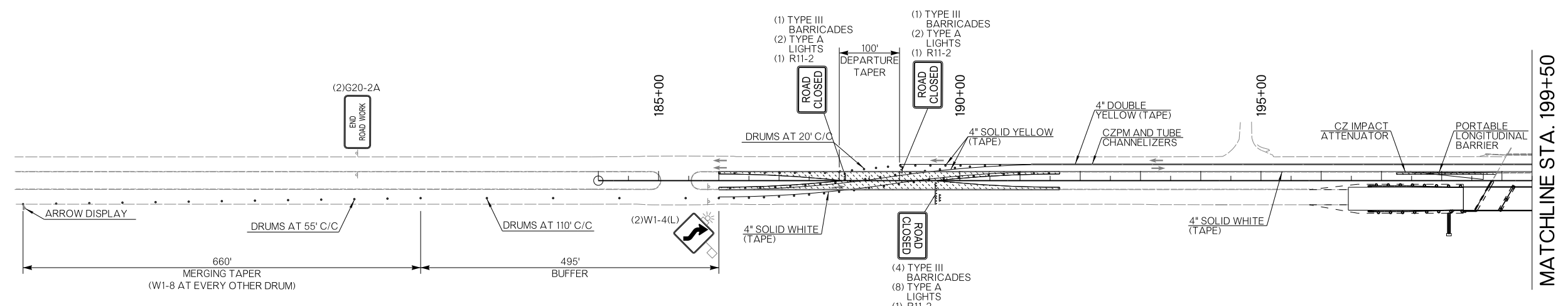
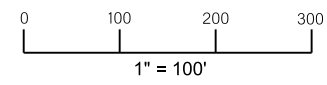
ADVANCE SIGNING DETAIL

**LEGEND**

- CONSTRUCTION
- TEMPORARY CONSTRUCTION
- TRAFFIC FLOW DIRECTION
- SIGN
- CHANNELIZING DEVICE
- CZ IMPACT ATTENUATOR
- PORTABLE LONGITUDINAL BARRIER
- TYPE III BARRICADE

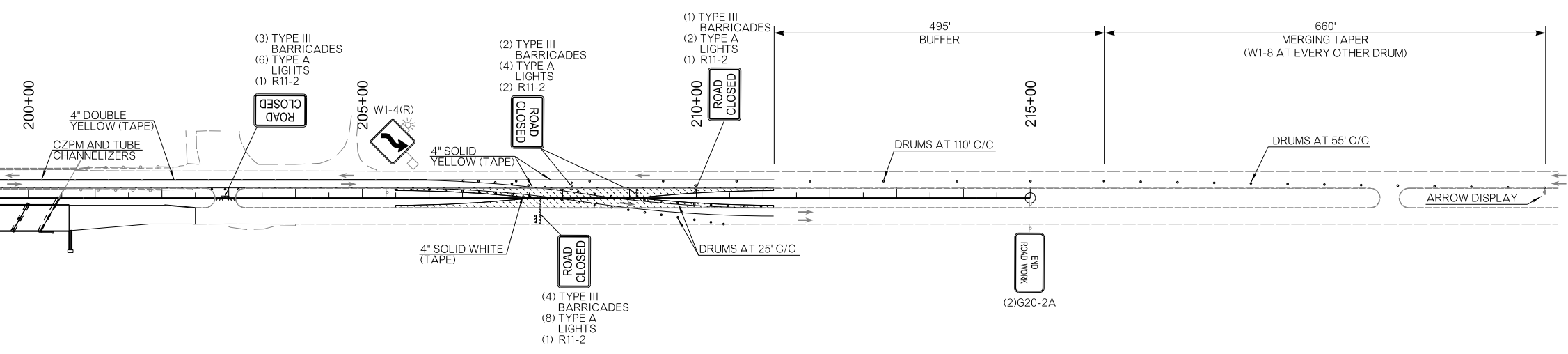
DIVISION 4 SH-66	CANADIAN COUNTY	DETAIL: KWR 05-19
TRAFFIC CONTROL (1) PHASE 1		CHECK: RBH 05-19
		ENGINEER: KWR 05-19
STATE OF OKLAHOMA		DEPARTMENT OF TRANSPORTATION
JOBPIECE NO. 32765(04)		SHEET NO. T005

REVISIONS		
REV. NO.	DESCRIPTION	DATE



MATCHLINE STA. 199+50

MATCHLINE STA. 199+50



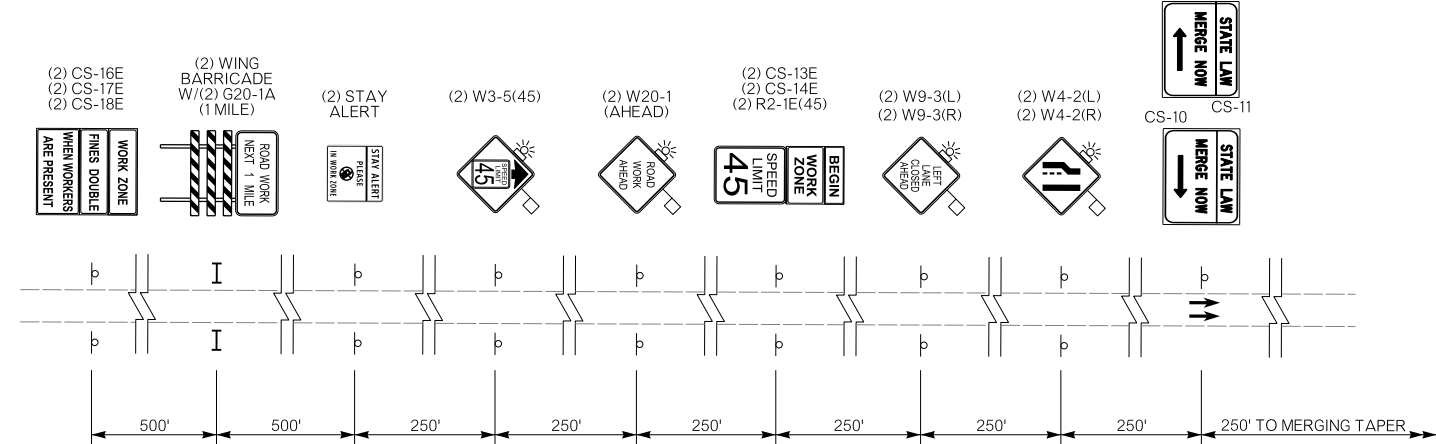
**PHASE 2**

**LEGEND**

- CONSTRUCTION
- TEMPORARY CONSTRUCTION
- TRAFFIC FLOW DIRECTION
- SIGN
- CHANNELIZING DEVICE
- CZ IMPACT ATTENUATOR
- PORTABLE LONGITUDINAL BARRIER
- TYPE III BARRICADE
- TUBE CHANNELIZER
- CENTERLINE CONST. ZONE PAVEMENT MARKER (YELLOW)



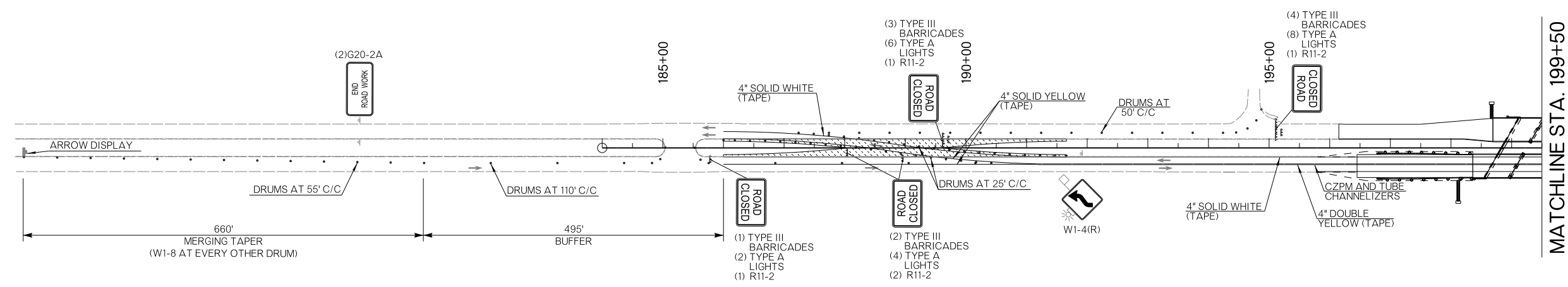
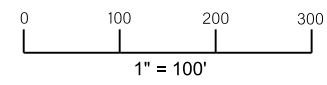
- BORDER  
R=1.5"  
TH=0.75"  
IN=0.75"
- COLOR:  
LEGEND, SYMBOL AND BORDER  
BLACK (NON-REFLECTORIZED)  
BACKGROUND:  
▲ FLUORESCENT ORANGE (REFLECTORIZED)  
★ FLUORESCENT YELLOW (REFLECTORIZED)  
● WHITE (REFLECTORIZED)  
■ RED (TRANSPARENT)



ADVANCE SIGNING DETAIL

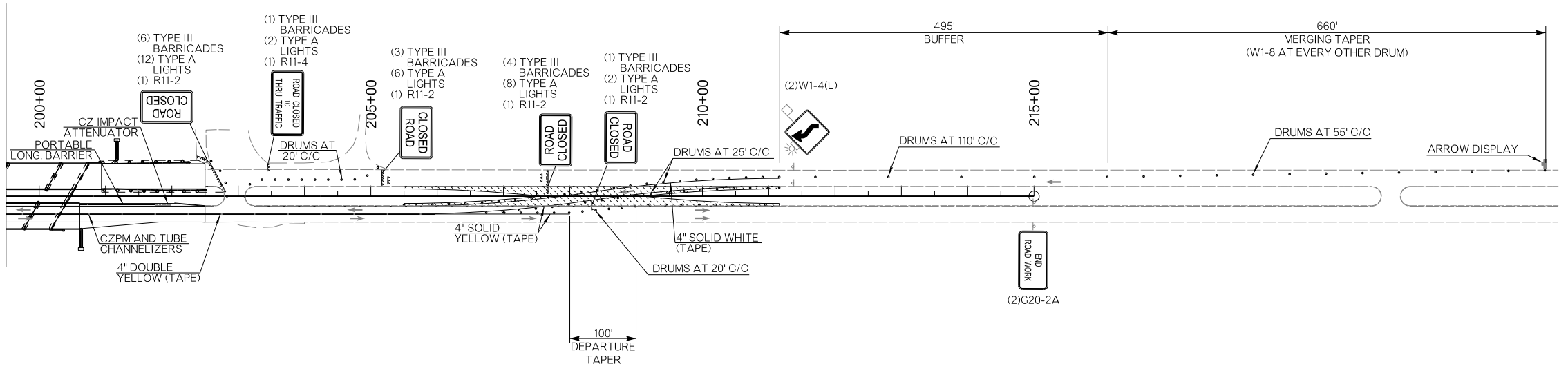
DIVISION 4 SH-66	CANADIAN COUNTY	DETAIL:	KWR	05-19
TRAFFIC CONTROL (2) PHASE 2		CHECK:	RBH	05-19
		ENGINEER:	KWR	05-19
STATE OF OKLAHOMA		GROUP:	EM	
JOBPIECE NO. 32765(04)		SHEET NO. T006		

REVISIONS		
REV. NO.	DESCRIPTION	DATE



MATCHLINE STA. 199+50

MATCHLINE STA. 199+50



**PHASE 3**

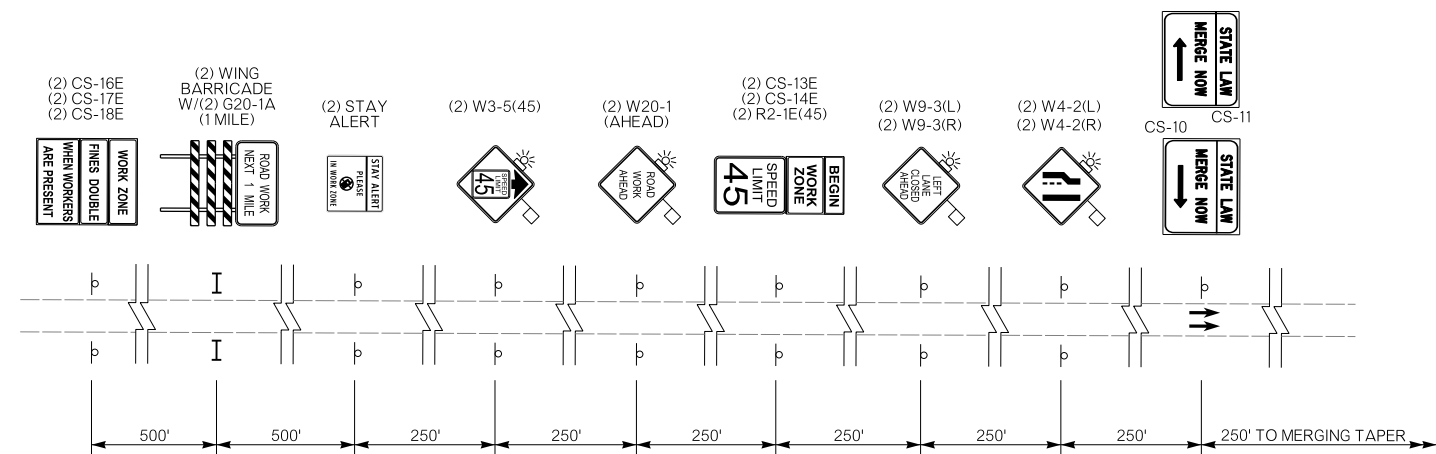
**LEGEND**

- CONSTRUCTION
- TEMPORARY CONSTRUCTION
- TRAFFIC FLOW DIRECTION
- SIGN
- CHANNELIZING DEVICE
- CZ IMPACT ATTENUATOR
- PORTABLE LONGITUDINAL BARRIER
- TYPE III BARRICADE
- TUBE CHANNELIZER
- CENTERLINE CONST. ZONE PAVEMENT MARKER (YELLOW)



BORDER  
R=1.5"  
TH=0.75"  
IN=0.75"

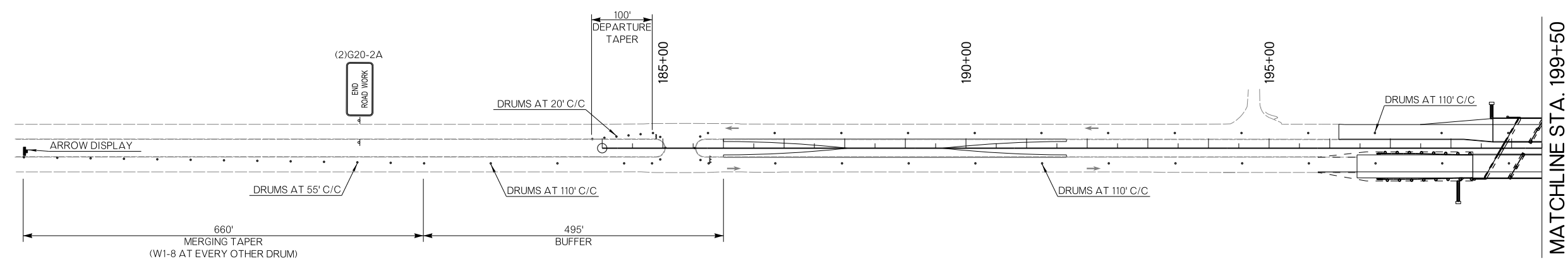
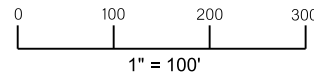
COLOR:  
LEGEND, SYMBOL AND BORDER  
BLACK (NON-REFLECTORIZED)  
BACKGROUND:  
▲ FLUORESCENT ORANGE (REFLECTORIZED)  
★ FLUORESCENT YELLOW (REFLECTORIZED)  
● WHITE (REFLECTORIZED)  
■ RED (TRANSPARENT)



ADVANCE SIGNING DETAIL

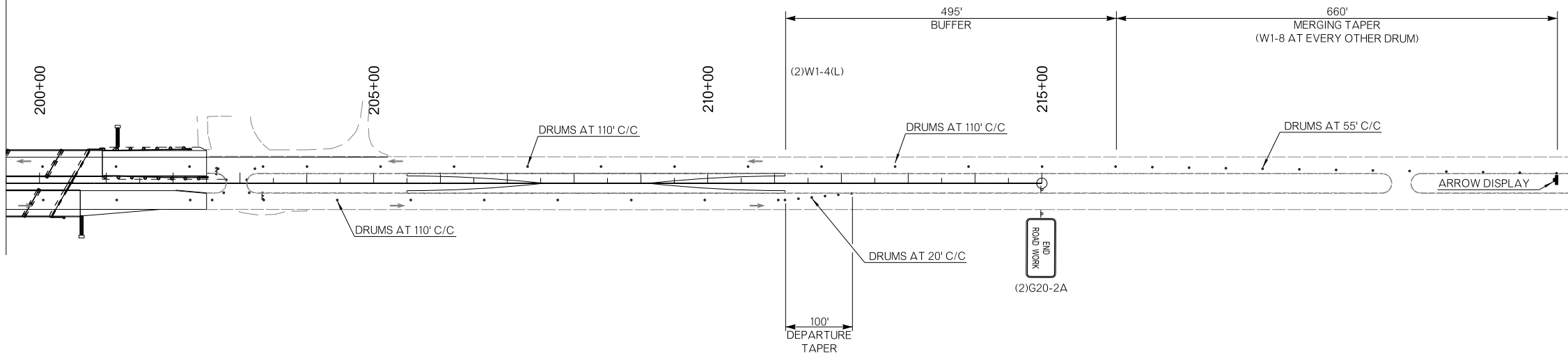
DIVISION 4 SH-66	CANADIAN COUNTY	DETAIL:	KWR	05-19
<b>TRAFFIC CONTROL (3) PHASE 3</b>		CHECK:	RBH	05-19
		ENGINEER:	KWR	05-19
STATE OF OKLAHOMA		GROUP:	EM	
JOBPIECE NO. 32765(04)		SHEET NO. T007		

REVISIONS		
REV. NO.	DESCRIPTION	DATE



MATCHLINE STA. 199+50

MATCHLINE STA. 199+50



**PHASE 4**

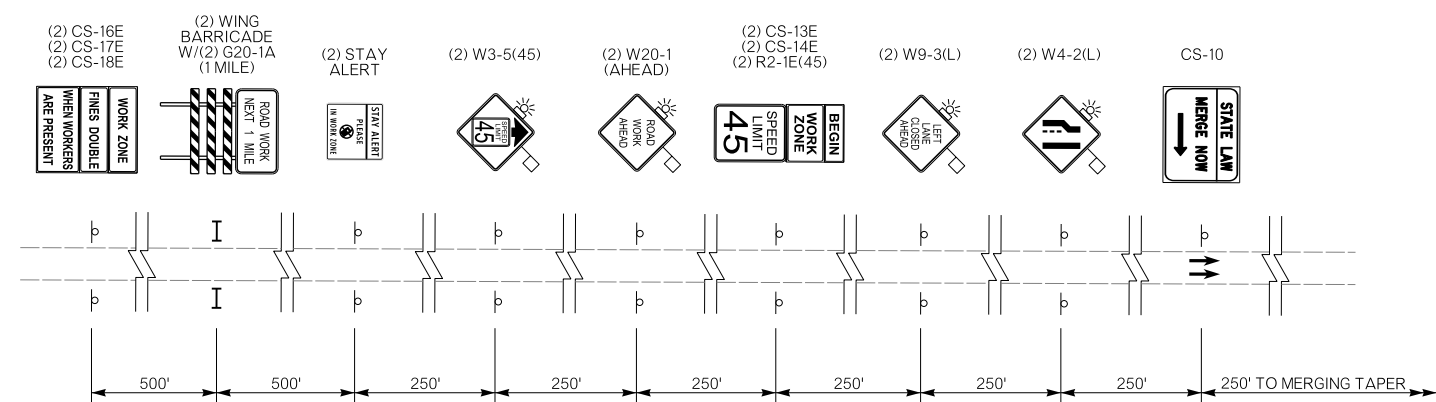
**LEGEND**

- CONSTRUCTION
- TEMPORARY CONSTRUCTION
- TRAFFIC FLOW DIRECTION
- SIGN
- CHANNELIZING DEVICE
- CZ IMPACT ATTENUATOR
- PORTABLE LONGITUDINAL BARRIER
- TYPE III BARRICADE
- TUBE CHANNELIZER
- CENTERLINE CONST. ZONE PAVEMENT MARKER (YELLOW)



BORDER  
R=1.5"  
TH=0.75"  
IN=0.75"

COLOR:  
LEGEND, SYMBOL AND BORDER  
BLACK (NON-REFLECTORIZED)  
BACKGROUND:  
▲ FLUORESCENT ORANGE (REFLECTORIZED)  
★ FLUORESCENT YELLOW (REFLECTORIZED)  
● WHITE (REFLECTORIZED)  
■ RED (TRANSPARENT)



**ADVANCE SIGNING DETAIL**

DIVISION 4 SH-66	CANADIAN COUNTY	DETAIL:	KWR	05-19
<b>TRAFFIC CONTROL (4) PHASE 4</b>		CHECK:	RBH	05-19
		ENGINEER:	KWR	05-19
STATE OF OKLAHOMA		GROUP:	EM	
JOBPIECE NO. 32765(04)		SHEET NO. T008		

# **CULTURAL RESOURCES STUDIES**



**Oklahoma Department of Transportation**  
Environmental Programs Division, Office 405.521.3050 / Fax 405.522.5193

**DATE:** November 8, 2019

**TO:** Frank Guerrero, Environmental Project Manager

**FROM:** Kristina Wyckoff, Cultural Resources Program

**SUBJECT:** Canadian JP 32765(04) Bridge Rehabilitation SH-66; westbound and eastbound bridges over Shell Creek, approx. 8.2 miles east of US-81 junction.

---

ODOT completed Section 106 consultation on behalf of FHWA for proposed improvements to the eastbound and westbound bridges carrying SH-66 over Shell Creek west of Yukon; 10.39 acres were surveyed. ODOT determined the proposed project will have **no effect on historic properties**.

The eastbound and westbound bridges (NBI 12629 and NBI 12630) were documented; ODOT determined these resources are not eligible for inclusion in the National Register of Historic Places.

Consultation with the State Historic Preservation Office (File no. 0053-20) and the State Archaeologist (FY20-0051) resulted in concurrence with our assessment and determination.

ODOT-CRP also consulted with the following tribes: Cheyenne and Arapaho Tribes, Comanche Nation, Delaware Nation, Osage Nation, and Wichita and Affiliated Tribes.

An avoidance memo is included for cultural resources in the project vicinity.


KCW



**Oklahoma Department of Transportation**  
Environmental Programs Division, Office 405.521.3050 / Fax 405.522.5193

**DATE:** November 6, 2019

**TO:** Project Management Division

**FROM:** Environmental Programs Division 

**SUBJECT:** Canadian County JP 32765(04): Bridge Rehabilitation SH-66; WB & EB over Shell Creek, approx. 8.2 miles east of US-81 Jct.

---

There are potentially significant cultural resources within the general vicinity of the referenced project. Please have the following note added to a section of the project plans entitled "Environmental Mitigation Notes" per Policy Directive C-201-2D(2):

**Locations outside the project area in the following area must not be utilized for borrow, equipment staging, haul roads, spoil dumps or any off-site project-related activity.**

**T12N R6W:**  
**Section 13: S ½ S ½**

SAS



## Oklahoma Historical Society

Founded May 27, 1893

### State Historic Preservation Office

Oklahoma History Center • 800 Nazih Zuhdi Drive • Oklahoma City, OK 73105-7917  
(405) 521-6249 • Fax (405) 522-0816 • [www.okhistory.org/shpo/shpom.htm](http://www.okhistory.org/shpo/shpom.htm)

October 28, 2019

Mr. Scott Sundermeyer, Director  
ODOT Cultural Resources Program  
111 East Chesapeake, Rm. 102, OU  
Norman, OK 73019

RE: File #0053-20; Shell Creek East & Westbound Bridge Improvements Project on SH-66: JP  
#32765(04)

Dear Mr. Sundermeyer:

We have received and reviewed the documentation submitted on the referenced project in Canadian County. Additionally, we have examined the information contained in the Oklahoma Landmarks Inventory (OLI) files and other materials on historic resources available in our office. We find that there are no known historic properties affected within the referenced project's area of potential effect.

In addition to our review, you must contact the Oklahoma Archeological Survey (OAS), 111 E. Chesapeake, #102, Norman OK 73019-5111 (#405/325-7211, FAX #405/325-7604), to obtain a determination about the presence of prehistoric resources that may be eligible for the National Register of Historic Places. Should the OAS conclude that there are no prehistoric archaeological sites or other types of "historic properties," as defined in 36 CFR Part 800.16(1), which are eligible for inclusion in the National Register of Historic Places within the project area and that such sites are unlikely to occur, we concur with that opinion.

The OAS may conclude that an additional on-site investigation of all or part of the project impact area is necessary to determine the presence of archaeological resources. In the event that such an investigation reveals the presence of prehistoric archaeological sites, we will defer to the judgment of the OAS concerning whether or not any of the resources should be considered "historic properties" under the Section 106 review process. If sites dating from the historic period are identified during the survey or are encountered during implementation of the project, additional assessments by the State Historic Preservation Office will be necessary.

Should further correspondence pertaining to this project be necessary, please reference the above underlined file number. Please remember that per regulation, the 30-day review period starts on the day we receive documents in our office, not the date they were mailed. If you have any questions, please contact Catharine M. Wood, Historical Archaeologist, at 405/521-6381. Thank you.

Sincerely,

Lynda Ozan  
Deputy State Historic  
Preservation Officer

LO:jr



## Oklahoma Archeological Survey

THE UNIVERSITY OF OKLAHOMA

October 25, 2019

Scott Sundermeyer, Director  
ODOT Cultural Resources Program  
111 E. Chesapeake, Rm 102  
University of Oklahoma  
Norman, OK 73019-5111

Re: OAS FY20-0051 ODOT Cultural Resources Survey Report Canadian 32765(04): Proposed Improvements to two SH-66 Bridges over Shell Creek, approximately 1.7 miles west of Yukon. Report by Kirsten Tharalson and Kimi Diedrich (ODOT).  
JP 32765(04)  
Legal Description: S ½ SW ¼ Section 13; N ½ NW ¼ Section 24, T12N, R6W, Canadian County, Oklahoma.

Dear Mr. Sundermeyer,

This agency received the submitted ODOT cultural resources survey report of investigations regarding the above-referenced undertaking for review and comment. From the information provided, we understand that ODOT staff surveyed the 10.39-acre Area of Potential Effect (APE) on September 12, 2019. No archaeological sites were documented. As such, ODOT recommends the project as proposed will have *No Effect on Historic Properties*.

**We concur with the findings and recommendations as they pertain to prehistoric archaeological resources and defer opinion on overall project effects to the Historic Archaeologist with the State Historic Preservation Office.**

This review has been conducted in cooperation with the State Historic Preservation Office, Oklahoma Historical Society. You must also have a letter from that office to document your consultation pursuant to Section 106 of the National Historic Preservation Act.

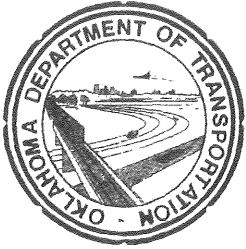
Sincerely,

Debra K. Green, Ph.D.  
Assistant State Archaeologist

Kary L. Stackelbeck, Ph.D.  
State Archaeologist

cc: SHPO





**OKLAHOMA DEPARTMENT OF TRANSPORTATION  
CULTURAL RESOURCES PROGRAM**

111 E. Chesapeake, Room 102, University of Oklahoma  
Norman, OK 73019-5111  
Phone: 405-325-7201/325-8665; FAX: 405-325-7604

---

October 3, 2019

Ms. Lynda Ozan  
Deputy State Historic Preservation Officer  
State Historic Preservation Office  
Oklahoma Historical Society  
800 Nazih Zuhdi Drive  
Oklahoma City, Oklahoma 73105-7917

Dear Ms. Ozan:

Re: Canadian County FHWA Project JP 32765(04): Proposed rehabilitation of the Eastbound and Westbound SH-66 bridges over Shell Creek, approximately 1.7 miles west of Yukon in Canadian County; submittal for comment under Section 106 of the National Historic Preservation Act.

Attached is a cultural resources survey report for the referenced project prepared by the ODOT Cultural Resources Program. The proposed undertaking consists of rehabilitation of the existing eastbound and westbound SH-66 bridges over Shell Creek, approximately 1.7 miles west of Yukon in Canadian County. The current bridges each consist of two 12-foot driving lanes with one-foot inside and three-foot outside paved shoulders, three-foot tall concrete barriers with steel guardrails and wooden posts. The proposed improvements consist of substructure and pier repair and full deck replacements; the proposed replacement decks would accommodate two 12-foot driving lanes with paved four-foot inside and ten-foot outside shoulders. All work is proposed within the existing right-of-way. The area of potential effect (APE) as defined by 36 CFR 800.16(d) is the NEPA study area, which is described in the report.

During this investigation the project bridges were documented on Oklahoma Bridge Survey Inventory (OBSI) forms. The existing westbound and eastbound bridges (National Bridge Inventory [NBI] 12629 and 12630, respectively) are steel I-beams constructed in 1951. These bridges are not covered by the Program Comment for common post-1945 steel and concrete bridges because they are located along the Historic Route 66 Scenic Byway. With little definable features and/or historic significance, these bridges are considered to be not eligible for inclusion in the NRHP.

Pursuant to 36 CFR 800.4(d)(1), and based upon the results of this study, it is our opinion that the project, as proposed, will have no effect on historic properties. We respectfully request your concurrence or comments to our opinion.

If you have any questions regarding this project, please contact me at 325-7201.

Sincerely,

Scott Sundermeyer  
Director, ODOT Cultural Resources Program

cc: State Archaeologist

*"The mission of the Oklahoma Department of Transportation is to provide a safe, economical, and effective transportation network for the people, commerce and communities of Oklahoma."*

AN EQUAL OPPORTUNITY EMPLOYER



**OKLAHOMA DEPARTMENT OF TRANSPORTATION  
CULTURAL RESOURCES PROGRAM**

111 E. Chesapeake, Room 102, University of Oklahoma  
Norman, OK 73019-5111  
Phone: 405-325-7201/325-8665; FAX: 405-325-7604

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September 19, 2019

Dear Stakeholder:

Re: Canadian County Federal Highway Administration Project: JP 32765(04); Proposed rehabilitation of the Eastbound and Westbound SH-66 bridges over Shell Creek approximately 1.7 miles west of Yukon.

ODOT, in cooperation with the Federal Highway Administration (FHWA), proposes to rehabilitate the eastbound and westbound US-66 bridges over Shell Creek, approximately 1.7 miles west of Yukon in Canadian County. The existing bridges (National Bridge Inventory [NBI] 12629 and 12630) are steel I-beams constructed in 1951. The purpose of the undertaking is to address safety concerns at these crossings by widening the existing bridges to meet current safety standards.

The project bridges each have a 28-foot wide clear roadway approach width that includes two 12-foot driving lanes with a one-foot inside paved shoulder and a three-foot outside paved shoulder and three-foot tall concrete barriers with steel guardrails and wooded posts. The proposed rehabilitation would comprise repair of the substructures of each bridge, repairs to the piers, and full deck replacements. Rip rap may be added below the bridges to address erosion of the slope walls and creek bed.

The two above-described project bridges will be documented and assessed as part of our cultural resources investigations. We understand that you may have knowledge of potential cultural or historical resources at the project location that ODOT and FHWA should consider in planning the project. We formally invite your organization to participate as a Section 106 consulting party for this project and provide any comments or information regarding potential cultural or historical resources that may be affected by the proposed project. Please see the attached Fact Sheet detailing your role as a Section 106 consulting party.

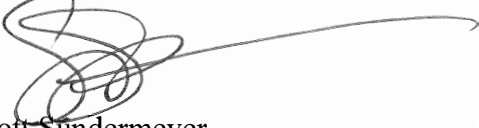
We respectfully request a response within 30 days of receipt of this letter. If you indicate an interest in being a consulting party, your organization will receive information regarding ODOT's cultural resource studies within the project area and the resulting recommendations and determinations. If you do not respond or respond indicating that you do not wish to participate, you will not be included on the list of consulting parties and will receive no additional correspondence.

*"The mission of the Oklahoma Department of Transportation is to provide a safe, economical, and effective transportation network for the people, commerce and communities of Oklahoma."*

AN EQUAL OPPORTUNITY EMPLOYER

If you have any questions regarding this project, please contact me at 405-325-7201 or via email at [ssundermeyer@odot.org](mailto:ssundermeyer@odot.org)

Sincerely,

A handwritten signature in black ink, appearing to read 'Scott Sundermeyer', with a long horizontal flourish extending to the right.

Scott Sundermeyer  
Director, ODOT Cultural Resources Program

Cc: Route 66 Road Ahead Partnership  
Oklahoma Route 66 Association, Inc.  
Oklahoma Public Archeology Network  
Preservation Oklahoma  
Canadian County Historical Society Museum

# OKLAHOMA DEPARTMENT OF TRANSPORTATION

## CULTURAL RESOURCES SURVEY REPORT

Canadian 32765(04): Proposed Improvements to two SH-66 bridges over Shell Creek, approximately 1.7 miles west of Yukon

Prepared by ODOT Cultural Resources Program  
Kirsten Tharalson and Kimi Diedrich

September 23, 2019

Lead Federal Agency: Federal Highways Administration (FHWA)



<b>County:</b>	Canadian
<b>J/P#:</b>	32765(04)
<b>Surveyed by:</b>	Kimi Diedrich
<b>Survey Date:</b>	September 12, 2019

**MANAGEMENT SUMMARY:**

ODOT Cultural Resources Program (CRP) conducted a cultural resources investigation for proposed rehabilitation of the eastbound and westbound bridges carrying SH-66 over Shell Creek 1.7 miles west of Yukon in Canadian County. This fieldwork was conducted by Kimi Diedrich on September 12, 2019. In total the study area encompasses approximately 10.39 acres.

The project is confined to an extensively disturbed area of existing SH-66 right-of-way, resulting from roadway and drainage construction, construction of the existing bridge, and utilities emplacements which include two deeply buried high pressure pipelines, which follow the western bank of the creek. As such, the study area is considered to have minimal potential to contain intact archaeological deposits. Therefore, an archaeological file review was considered adequate for this project. The bridges were inspected and photographed by an architectural historian.

These bridges are not covered by the Program Comment for common post-1945 steel and concrete bridges because they are located along the Historic Route 66 Scenic Byway. These bridges were inspected and photographed by an architectural historian.

After surveying the two bridges within the project area, it is our assessment that the bridges (NBI 12629 and NBI 12630) are not historically significant and lack any integrity; therefore, pursuant to 36 CFR 60.4, these bridges are considered to be not eligible for inclusion in the NRHP.

Pursuant to 36 CFR 800.4(d)(1), ODOT determined the proposed project will have no effect on historic properties.

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## 1. PROJECT DESCRIPTION:

This report documents a cultural resources investigation for proposed improvements to SH-66 over Shell Creek, located 8.2 miles east of the US-81 junction in El Reno. The existing facility is comprised of two 12-foot driving lanes with 1-foot inside shoulders and 3-foot outside shoulders. The proposed improvements would accommodate two 12-foot driving lanes with 4-foot inside shoulders and 10-foot outside shoulders. Improvements will occur on existing alignment. The roadway will remain open during construction utilizing crossovers in the center median.

The project study area, as defined in the 90-percent plans dated June 10, 2019, consists of a 0.5-mile corridor of SH-66, beginning approximately at the SH-66/North Richland Road intersection and extending east approximately 2,630 feet to a point approximately 2,630 feet west of the SH-66/North Frisco Road intersection. The study area is confined to the existing SH-66 right-of-way throughout the study area. In total, the study area encompasses approximately 10.39 acres.

The existing bridge carrying SH-66 west bound over Shell Creek [ODOT Structure # 0906 0819NX (NBI 12629)] is a steel stringer/girder constructed in 1951.

The existing bridge carrying SH-66 east bound over Shell Creek [ODOT Structure # 0906 0819SX (NBI 12630)] is a steel stringer/girder constructed in 1951.

These bridges are not covered by the Program Comment for common post-1945 steel and concrete bridges because they are located along the Historic Route 66 Scenic Byway. Both bridges have been documented and assessed as not eligible for inclusion in the NRHP as part of the current project.

<b>Legal Location:</b>	T12N R6W Sections 13, 24
<b>U.S.G.S. Quadrangle:</b>	Richland [1972 (1983)]

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## 2. ENVIRONMENTAL SETTING:

### Geomorphic/Physiographic Region:

The project study area is mapped in the Western Sandstone Hills geomorphic province where slightly lithified, nearly flat-lying Permian red sandstones form gently rolling hills cut by steep-walled canyons.

### Geology and Soils:

The project study area is mapped across Permian Duncan Sandstone and Quaternary Alluvium deposits.

As mapped, soils and sediments in the study area belong to the Norge, Dale, and Port soil series. Soils mapped in the Norge series are described as having a moderate brown silt loam A horizon [0-30 centimeters below surface (cmbs)], over a shallow reddish brown silty clay loam BA horizon (30-46 cmbs), overlying a series of reddish brown and red silty clay loam B horizons (46-167 cmbs). Soils mapped in the Dale series are described as having a shallow dark grayish brown silt loam Ap horizon (0-18 cmbs), over a moderately thick dark grayish brown silt loam A horizon (18-53 cmbs), over a brown silt loam B horizon (53-102 cmbs), overlying a brown silt loam BC horizon (102-152 cmbs).

Soils mapped in the Port series are described as having a moderately shallow reddish brown silt loam Ap horizon (0-23 cmbs), over a thick dark reddish brown silt loam A horizon (23-69 cmbs), over a reddish brown silty clay loam B horizon (69-107 cmbs), overlying a reddish brown silt loam C horizon (107-183 cmbs). Port series soils have potential for buried horizons below 30 inches (76 cmbs), but these pedons are not considered diagnostic. Port series soils are mapped bisecting the study area along the western bank of Shell Creek. Two parallel high-pressure pipelines have been placed approximately four feet below the surface along the western bank of Shell Creek by DCP Midstream; therefore no shovel or auger tests were excavated in this location.

**Vegetation:**

The study area is mapped across Tallgrass Prairie vegetation. Tallgrass Prairies are found throughout much of central Oklahoma; predominant species in this vegetation type include little bluestem, big bluestem, Indiangrass, and switchgrass.

According to the USGS Land Cover Map, the study area is comprised of developed land within the entire project study area. Google Earth imagery is consistent with the Land Cover Map and illustrates paved roads and sodded right-of-way throughout the study area.

**3. CULTURAL BACKGROUND:****Background Research:**

XXX State Site Files at Oklahoma Archeological Survey (OAS)

XXX SHPO NRHP and DOE, and OLI Files

A review of the Oklahoma Archeological Survey (OAS) maps indicate that no previously recorded archaeological sites are located within the project study area, however one previously-recorded archaeological site (34CN66) is mapped within the project's one-mile vicinity.

Site 34CN66 is mapped on a hillside overlooking Shell Creek, approximately 390 feet northeast of the project study area. The site was recorded by Robert W. Everett in May of 1981 as an unassigned prehistoric habitation site; artifacts at the site were described as including a Young projectile point, a Washita base section, Scallorn-like projectile points, a Fresno point, a small knife or preform, shell- and bone- tempered cordmarked pottery sherds, a possible mussel shell pendant blank, faunal remains, scrapers, flakes, cores, and a spatulate-like base of a bone awl. This site was not assessed for NRHP eligibility.

Robert Brooks included Canadian County in "Region 4" of his Resource Protection Planning Process Management manuscript. Region 4 consists of Oklahoma's southern mixed-grass and tallgrass prairie and includes sites from Paleoindian, Archaic, Woodland, Village Farming, Protohistoric, and historic periods. Brooks notes this region has yielded evidence of the oldest-known human occupations in Oklahoma, specifically, excavations at the Cooperton site in Kiowa County and the Domebo Site in Caddo County are two Paleoindian mammoth kill sites dating between 11,200 and 20,000 years ago (Brooks 1983:5). In 1983, more Paleoindian sites and more Archaic sites had been recorded in region 4 than in any other region of the state (Brooks 1983:17, 28). According to the Oklahoma Atlas of Archaeological Sites and Management Activities, in 2004, 145 archaeological sites had been recorded in Canadian County (Brooks 2005). Currently there are 275 archaeological sites recorded in Canadian County as a whole.

Prehistoric archaeological sites recorded in the general region of the project, specifically those mapped on the Richland topographic quadrangle map, are generally recorded on terraces, rises, and ridges overlooking drainages, especially Deer Creek. Previously recorded prehistoric sites in the project's general area have been identified by surface scatters of lithic artifacts. Nineteenth and 20th century archaeological sites are generally recorded where buildings or occupations are indicated on historic maps and/or aerial photographs.

Because the project study area is confined to the existing SH-66 right-of-way, soil survey maps, As-Built plans for the existing bridges, and historic maps and aeriels were reviewed. These resources indicate significant disturbance to the project study area. Although Port series soils have potential for buried soil horizons below 30 inches (76 cmbs), the area where these potential buried soils are mapped, specifically along the western bank of Shell Creek, has been considerably disturbed by the existing roadway and gutters; further, the oil/gas company DCP Midstream reported two buried high-pressure pipelines at this location. These pipelines run north-south along the western bank of Shell Creek and are buried four feet below the surface. In sum, the available resources indicate that the project study area has been extensively disturbed and is considered to have minimal potential to contain intact archaeological deposits.

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#### 4. METHODOLOGY:

The project is confined to an extensively disturbed area of existing SH-66 right-of-way, resulting from roadway and drainage construction, construction of the existing bridge, and utilities emplacements which include two deeply buried high pressure DCP Midstream pipelines, which follow the western bank of the creek. As such, the study area is considered to have minimal potential to contain intact archaeological deposits. Therefore, an archaeological file review was considered adequate for this project.

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#### 5. RESULTS OF INVESTIGATION:

XXX No archeological sites or buildings recorded in study area.

\_\_\_\_\_ Resources recorded in study area assessed as **not eligible** for the NRHP. Forms being submitted for agency review.

\_\_\_\_\_ Oklahoma Archeological Site Survey Form(s) for State Archeologist files.

\_\_\_\_\_ Historic Preservation Resource Identification Form(s) for SHPO files.

\_\_\_\_\_ Oklahoma Bridge Survey and Inventory Form.

\_\_\_\_\_ **NRHP-eligible properties** recorded in study area.

**Forms being submitted for agency review.**

\_\_\_\_\_ Oklahoma Archeological Site Survey Form(s) for State Archeologist files.

\_\_\_\_\_ Historic Preservation Resource Identification Form(s) for SHPO files.

\_\_\_\_\_ Oklahoma Bridge Survey and Inventory Form.

\_\_\_\_\_ Archeological sites requiring further assessment (i.e. evaluative testing)

***COMMENTS AND DESCRIPTION OF FINDINGS:***

The existing bridge carrying SH-66 west bound over Shell Creek [ODOT Structure # 0906 0819NX (NBI 12629)] is a steel stringer/girder constructed in 1951.

The existing bridge carrying SH-66 east bound over Shell Creek [ODOT Structure # 0906 0819SX (NBI 12630)] is a steel stringer/girder constructed in 1951.

These bridges are not covered by the Program Comment for common post-1945 steel and concrete bridges because they are located along the Historic Route 66 Scenic Byway. With little definable features and lack of significance, it is our assessment that the bridges lack significance in relation to Route 66 and are not integral to the overall narrative of the roadbed. Pursuant to 36 CFR 60.4, these bridges lack sufficient significance and/or integrity and are therefore considered to be not eligible for inclusion in the NRHP.

---

#### 6. RECOMMENDATIONS:

XXX **Plan Notes** requiring avoidance of cultural resources in off-project areas

XXX **Approval Recommended** with the proposed project as planned with no additional research. If subsurface archaeological materials are exposed during construction, the Contractor and Resident Engineer shall notify the Department Archaeologist in accordance with Section

202.04(a), Standard Specifications for Highway Construction.

\_\_\_\_\_ **Approval NOT Recommended**, until one or more of the following measures are completed.

\_\_\_\_\_ **Additional consultation with SHPO** regarding NRHP-eligible Properties

\_\_\_\_\_ **Revise design** to avoid/protect resources

\_\_\_\_\_ **NRHP Eligibility Archaeological Test Excavations**

\_\_\_\_\_ **Implementation of MOA** with SHPO regarding Mitigation of Adverse Effects to Historic Properties

**SUMMARY AND COMMENTS REGARDING RECOMMENDATIONS:**

Pursuant to 36 CFR 60.4, the eastbound (Structure # 0906 0819NX/NBI 12629) and westbound (Structure # 0906 0819SX/NBI 12630) bridges carrying SH-66 over Shell Creek lack sufficient historical significance and/or integrity and are therefore considered to be not eligible for inclusion in the NRHP.

Pursuant to 36 CFR 800.4(d)(1), it is our opinion that there are no historic properties affected. We recommend the project proceed as planned.

In order to avoid impacts to cultural resources that have not been assessed for NRHP eligibility in the project vicinity by off-project activity such as borrow pit excavation or staging of heavy equipment, it is recommended that the following areas be avoided for the establishment of off-project facilities:

T12N R6W  
Section 13: S½ S½

**REFERENCES**

General Land Office (GLO) Original Survey Map (1873)  
USGS Minco NE 7.5' Quadrangle [1966 (1983)]  
USGS Richland 7.5' Quadrangle [1972 (1983)]  
Canadian County General Highway and Transportation Map (GHM) (1940, 1949, 1956, 1965, 1970, 1977, 1985)  
Canadian County aerial imagery (1951, 1957)

Brooks, Robert L.  
1983 *Resource Protection Planning Process Management Region 4*. Report submitted to the State Historic Preservation Office Oklahoma Historical Society. Unpublished manuscript on file at the Oklahoma Archeological Survey, Norman.  
2005 Oklahoma Atlas of Archaeological Sites and Management Activities.  
<http://www.ou.edu/cas/archsur/Atlas/atlas.htm>, accessed online July 18, 2019.

US Geological Survey, 20140331, NLCD 2011 Land Cover (2011 Edition) US Geological Survey, Sioux Falls, SD.

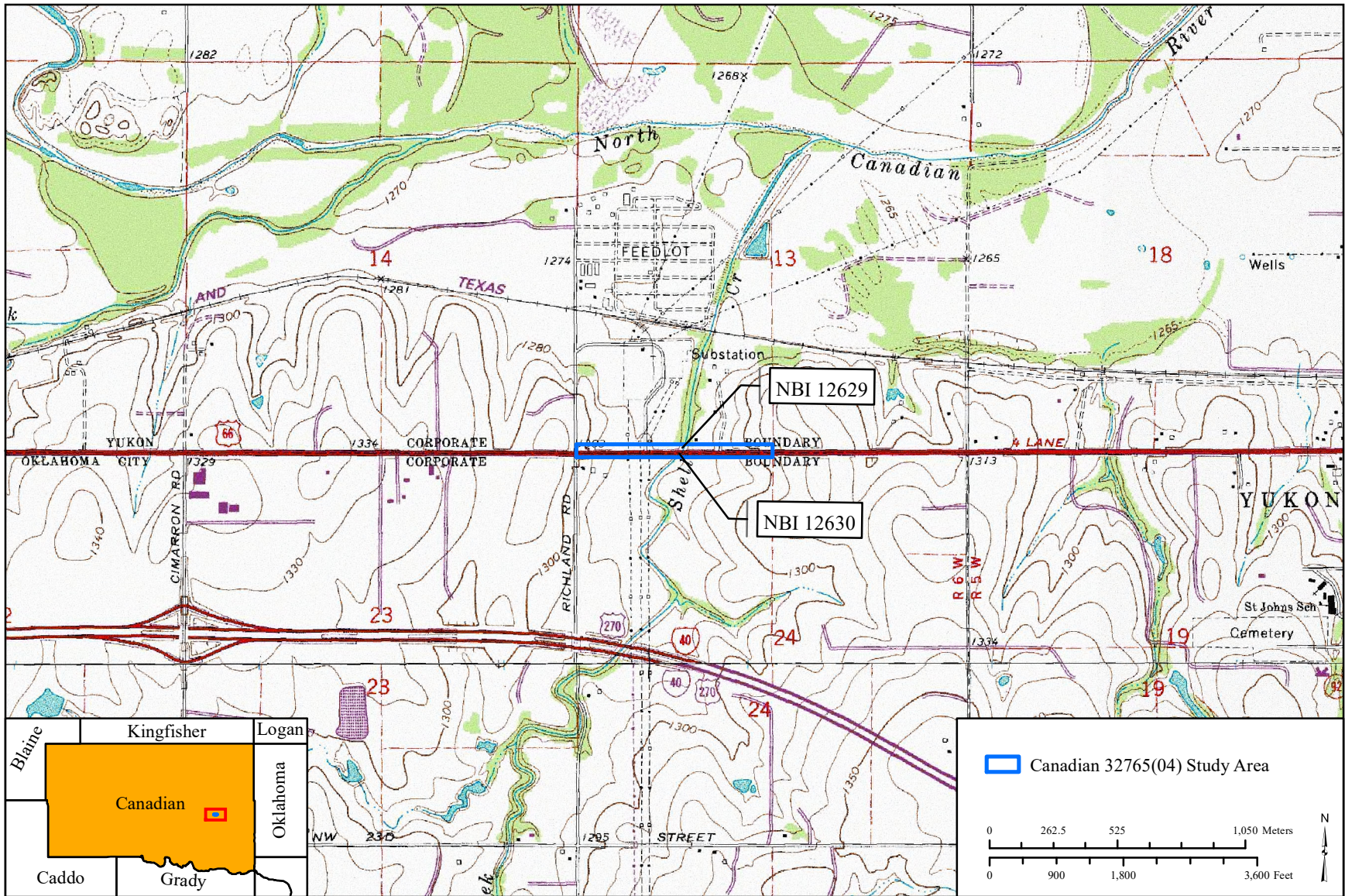


Figure 1. Canadian County JP 32765(04): Route 66 Improvements over Shell Creek.

Basemap: USGS Richland 7.5' Quadrangle [1972 (1983)]  
 Legal location: T12N R6W Sections 13, 24



July 10, 2019

Cheyenne & Arapaho Tribes  
 Attn: Governor Reggie Wassana  
 P.O. Box 38  
 Concho, OK 73022

Dear Governor Wassana:

Re: Section 106 consultation for proposed Federal-Aid undertaking in Canadian County, Oklahoma; JP# 32765(04)

Pursuant to 36 CFR Part 800.2(c)(2), the Oklahoma Department of Transportation is initiating consultation on behalf of the Federal Highway Administration regarding historic properties that may be affected by the following project.

<b>County</b>	Canadian	<b>Job Piece #</b>	32765(04)	<b>Anticipated Let Date</b>	2020
<b>Project description</b>	Bridge rehabilitation on State Highway 66 over Shell Creek, approximately 8.2 miles east of the U.S. 81 junction				
<b>Location</b>	Sec 13 & 24 T12N R6W. See enclosed map.				
<b>Additional information</b>	This project is on a new alignment: <input type="checkbox"/> yes <input checked="" type="checkbox"/> no This project will require new or temporary right of way: <input type="checkbox"/> yes <input checked="" type="checkbox"/> no This project involves ground disturbance: <input checked="" type="checkbox"/> yes <input type="checkbox"/> no				

If this undertaking may affect burials, cemeteries, or properties of religious and cultural significance to your tribe, please notify me as soon as possible. Likewise, if this undertaking occurs on land held in trust for the tribe and the tribe has 101(d)(2) status from the National Park Service, please make this office aware of the location of the trust property. In order to provide the most thorough consideration of these properties in the planning process, we appreciate receiving your response to this request within 30 days. Please rest assured that we will respect your wishes regarding the confidentiality of any information that you provide.

The proposed project area will be subject to a cultural resources survey. The goal of this survey is to make a reasonable and good faith effort to identify historic properties within the area of potential effect, in accordance with 36 CFR Part 800.4. The survey will be performed in consultation with the Oklahoma State Historic Preservation Office and other consulting parties as appropriate. You will be provided a copy of the cultural resources report upon its completion.

If you have any questions or would like to meet regarding this project, please contact me by telephone at 405.521.3632 or email at rfair@odot.org.

Sincerely,



Rhonda S. Fair, Ph.D.  
 Director  
 ODOT Tribal Coordination

cc: Max Bear, THPO



October 4, 2019

Cheyenne & Arapaho Tribes
Attn: Governor Reggie Wassana
P.O. Box 38
Concho, OK 73022

Dear Governor Wassana:

Re: Section 106 consultation for proposed Federal-Aid undertaking in Canadian County, Oklahoma; JP# 32765(04)

Pursuant to 36 CFR Part 800.2(c)(2), the Oklahoma Department of Transportation is consulting on behalf of the Federal Highway Administration regarding historic properties that may be affected by the following project.

Table with 2 rows and 6 columns: County, Job Piece #, Anticipated Let Date, Project description, etc.

In accordance with 36 CFR Part 800.4, the proposed project area was surveyed for cultural resources in order to identify historic properties that may be affected by the undertaking. A copy of this report is enclosed.

This investigation documented the project bridges. With little definable features and/or historic significance, these bridges are considered to be not eligible for inclusion in the National Register of Historic Places.

If this undertaking may affect properties of religious and cultural significance to your tribe or tribal trust land, please notify me as soon as possible. In order to provide the most thorough consideration of these properties in the planning process, we appreciate receiving your response to this request within 30 days.

If you have any questions or would like to meet regarding this project, please contact me by telephone at 405.521.3632 or by email at rfair@odot.org.

Sincerely,

[Handwritten signature]

Rhonda S. Fair, Ph.D.
Director
ODOT Tribal Coordination

cc: Max Bear, THPO



July 10, 2019

Comanche Nation
Attn: Martina Callahan, THPO
P.O. Box 908
Lawton, OK 73502

Dear Ms. Callahan:

Re: Section 106 consultation for proposed Federal-Aid undertaking in Canadian County, Oklahoma; JP# 32765(04)

Pursuant to 36 CFR Part 800.2(c)(2), the Oklahoma Department of Transportation is initiating consultation on behalf of the Federal Highway Administration regarding historic properties that may be affected by the following project.

Table with 6 columns: County, Job Piece #, Anticipated Let Date, Project description, Location, Additional information. Contains project details for Canadian County, Job Piece # 32765(04), anticipated let date 2020, and project description: Bridge rehabilitation on State Highway 66 over Shell Creek.

If this undertaking may affect burials, cemeteries, or properties of religious and cultural significance to your tribe, please notify me as soon as possible. Likewise, if this undertaking occurs on land held in trust for the tribe and the tribe has 101(d)(2) status from the National Park Service, please make this office aware of the location of the trust property.

The proposed project area will be subject to a cultural resources survey. The goal of this survey is to make a reasonable and good faith effort to identify historic properties within the area of potential effect, in accordance with 36 CFR Part 800.4. The survey will be performed in consultation with the Oklahoma State Historic Preservation Office and other consulting parties as appropriate.

If you have any questions or would like to meet regarding this project, please contact me by telephone at 405.521.3632 or email at rfair@odot.org.

Sincerely,

Rhonda S. Fair, Ph.D.
Director
ODOT Tribal Coordination

cc: Chairman William Nelson

# COMANCHE NATION



Oklahoma Department of Transportation  
Attn: Ms. Rhonda S. Fair  
200 N.E. Street, Room 3A8  
Oklahoma 73105-3204

September 13, 2019

Re: Section 106 consultation for proposed Federal-Aid undertaking in  
Canadian County, Oklahoma; (JP# 32765(04))

Dear Ms. Fair:

In response to your request, the above reference project has been reviewed by staff of this office to identify areas that may potentially contain prehistoric or historic archeological materials. The location of your project has been cross referenced with the Comanche Nation site files, where an indication of "**No Properties**" have been identified. (IAW 36 CFR 800.4(d)(1)).

Please contact this office at (580) 595-9960/9618) if you require additional information on this project.

This review is performed in order to identify and preserve the Comanche Nation and State cultural heritage, in conjunction with the State Historic Preservation Office.

Regards

Comanche Nation Historic Preservation Office  
Theodore E. Villicana , Technician  
#6 SW "D" Avenue, Suite C  
Lawton, OK. 73502



October 4, 2019

Comanche Nation
Attn: Martina Callahan, THPO
P.O. Box 908
Lawton, OK 73502

Dear Ms. Callahan:

Re: Section 106 consultation for proposed Federal-Aid undertaking in Canadian County, Oklahoma; JP# 32765(04)

Pursuant to 36 CFR Part 800.2(c)(2), the Oklahoma Department of Transportation is consulting on behalf of the Federal Highway Administration regarding historic properties that may be affected by the following project.

Table with 2 rows and 6 columns: County, Job Piece #, Anticipated Let Date, Project description, etc.

In accordance with 36 CFR Part 800.4, the proposed project area was surveyed for cultural resources in order to identify historic properties that may be affected by the undertaking. A copy of this report is enclosed.

This investigation documented the project bridges. With little definable features and/or historic significance, these bridges are considered to be not eligible for inclusion in the National Register of Historic Places.

If this undertaking may affect properties of religious and cultural significance to your tribe or tribal trust land, please notify me as soon as possible. In order to provide the most thorough consideration of these properties in the planning process, we appreciate receiving your response to this request within 30 days.

If you have any questions or would like to meet regarding this project, please contact me by telephone at 405.521.3632 or by email at rfair@odot.org.

Sincerely,

[Handwritten signature]

Rhonda S. Fair, Ph.D.
Director
ODOT Tribal Coordination

cc: Chairman William Nelson

July 10, 2019

Delaware Nation  
 Attn: President Deborah Dotson  
 P.O. Box 825  
 Anadarko, OK 73005

Dear President Dotson:

Re: Section 106 consultation for proposed Federal-Aid undertaking in Canadian County, Oklahoma; JP# 32765(04)

Pursuant to 36 CFR Part 800.2(c)(2), the Oklahoma Department of Transportation is initiating consultation on behalf of the Federal Highway Administration regarding historic properties that may be affected by the following project.

<b>County</b>	Canadian	<b>Job Piece #</b>	32765(04)	<b>Anticipated Let Date</b>	2020
<b>Project description</b>	Bridge rehabilitation on State Highway 66 over Shell Creek, approximately 8.2 miles east of the U.S. 81 junction				
<b>Location</b>	Sec 13 & 24 T12N R6W. See enclosed map.				
<b>Additional information</b>	This project is on a new alignment: <input type="checkbox"/> yes <input checked="" type="checkbox"/> no This project will require new or temporary right of way: <input type="checkbox"/> yes <input checked="" type="checkbox"/> no This project involves ground disturbance: <input checked="" type="checkbox"/> yes <input type="checkbox"/> no				

If this undertaking may affect burials, cemeteries, or properties of religious and cultural significance to your tribe, please notify me as soon as possible. Likewise, if this undertaking occurs on land held in trust for the tribe and the tribe has 101(d)(2) status from the National Park Service, please make this office aware of the location of the trust property. In order to provide the most thorough consideration of these properties in the planning process, we appreciate receiving your response to this request within 30 days. Please rest assured that we will respect your wishes regarding the confidentiality of any information that you provide.

The proposed project area will be subject to a cultural resources survey. The goal of this survey is to make a reasonable and good faith effort to identify historic properties within the area of potential effect, in accordance with 36 CFR Part 800.4. The survey will be performed in consultation with the Oklahoma State Historic Preservation Office and other consulting parties as appropriate. You will be provided a copy of the cultural resources report upon its completion.

If you have any questions or would like to meet regarding this project, please contact me by telephone at 405.521.3632 or email at rfair@odot.org.

Sincerely,



Rhonda S. Fair, Ph.D.  
 Director  
 ODOT Tribal Coordination

cc: Erin Thompson



*The Delaware Nation*  
**Historic Preservation Department**

31064 State Highway 281  
Anadarko, OK 73005  
Phone (405)247-2448

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August 5, 2019

To Whom It May Concern:

The Delaware Nation Historic Preservation Department received correspondence regarding the following referenced project(s).

**Project: Job Piece# 32765(04)**

Our office is committed to protecting tribal heritage, culture and religion with particular concern for archaeological sites potentially containing burials and associated funerary objects.

The Lenape people occupied the area indicated in your letter during and prior to European contact until their eventual removal to our present locations. We would like to accept your invitation for consultation.

Please note the Delaware Nation, the Delaware Tribe of Indians, and the Stockbridge Munsee Band of Mohican Indians are the only Federally Recognized Delaware/Lenape entities in the United States and consultation must be made only with designated staff of these three tribes. We appreciate your cooperation in contacting the Delaware Nation Cultural Preservation Office to conduct proper Section 106 consultation. Should you have any questions, feel free to contact our offices at 405-247-2448 ext. 1403.



*Erin N. Thompson*

Erin Thompson  
Director of Historic Preservation  
Delaware Nation  
31064 State Highway 281  
Anadarko, OK 73005  
Ph. 405-247-2448 ext. 1403  
ethompson@delawarenation-nsn.gov



October 4, 2019

Delaware Nation  
Attn: President Deborah Dotson  
P.O. Box 825  
Anadarko, OK 73005

Dear President Dotson:

Re: Section 106 consultation for proposed Federal-Aid undertaking in Canadian County, Oklahoma; JP# 32765(04)

Pursuant to 36 CFR Part 800.2(c)(2), the Oklahoma Department of Transportation is consulting on behalf of the Federal Highway Administration regarding historic properties that may be affected by the following project.

<b>County</b>	Canadian	<b>Job Piece #</b>	32765(04)	<b>Anticipated Let Date</b>	2020
<b>Project description</b>	Bridge rehabilitation on State Highway 66 over Shell Creek, approximately 8.2 miles east of the U.S. 81 junction				

In accordance with 36 CFR Part 800.4, the proposed project area was surveyed for cultural resources in order to identify historic properties that may be affected by the undertaking. A copy of this report is enclosed.

This investigation documented the project bridges. With little definable features and/or historic significance, these bridges are considered to be not eligible for inclusion in the National Register of Historic Places. Pursuant to 36 CFR 800.4(d)(1), and based upon the results of this study, our opinion is that the project, as proposed, will have no effect on historic properties.

If this undertaking may affect properties of religious and cultural significance to your tribe or tribal trust land, please notify me as soon as possible. In order to provide the most thorough consideration of these properties in the planning process, we appreciate receiving your response to this request within 30 days. Please rest assured that we will respect your wishes regarding the confidentiality of any information that you provide.

If you have any questions or would like to meet regarding this project, please contact me by telephone at 405.521.3632 or by email at rfair@odot.org.

Sincerely,

Rhonda S. Fair, Ph.D.  
Director  
ODOT Tribal Coordination

cc: Erin Thompson

July 10, 2019

Osage Nation  
 Attn: Principal Chief Geoffrey Standing Bear  
 627 Grandview  
 Pawhuska, OK 74056

Dear Principal Chief Standing Bear:

Re: Section 106 consultation for proposed Federal-Aid undertaking in Canadian County, Oklahoma; JP# 32765(04)

Pursuant to 36 CFR Part 800.2(c)(2), the Oklahoma Department of Transportation is initiating consultation on behalf of the Federal Highway Administration regarding historic properties that may be affected by the following project.

<b>County</b>	Canadian	<b>Job Piece #</b>	32765(04)	<b>Anticipated Let Date</b>	2020
<b>Project description</b>	Bridge rehabilitation on State Highway 66 over Shell Creek, approximately 8.2 miles east of the U.S. 81 junction				
<b>Location</b>	Sec 13 & 24 T12N R6W. See enclosed map.				
<b>Additional information</b>	This project is on a new alignment: <input type="checkbox"/> yes <input checked="" type="checkbox"/> no This project will require new or temporary right of way: <input type="checkbox"/> yes <input checked="" type="checkbox"/> no This project involves ground disturbance: <input checked="" type="checkbox"/> yes <input type="checkbox"/> no				

If this undertaking may affect burials, cemeteries, or properties of religious and cultural significance to your tribe, please notify me as soon as possible. Likewise, if this undertaking occurs on land held in trust for the tribe and the tribe has 101(d)(2) status from the National Park Service, please make this office aware of the location of the trust property. In order to provide the most thorough consideration of these properties in the planning process, we appreciate receiving your response to this request within 30 days. Please rest assured that we will respect your wishes regarding the confidentiality of any information that you provide.

The proposed project area will be subject to a cultural resources survey. The goal of this survey is to make a reasonable and good faith effort to identify historic properties within the area of potential effect, in accordance with 36 CFR Part 800.4. The survey will be performed in consultation with the Oklahoma State Historic Preservation Office and other consulting parties as appropriate. You will be provided a copy of the cultural resources report upon its completion.

If you have any questions or would like to meet regarding this project, please contact me by telephone at 405.521.3632 or email at rfair@odot.org.

Sincerely,



Rhonda S. Fair, Ph.D.  
 Director  
 ODOT Tribal Coordination

cc: Tribal Historic Preservation Office



## Osage Nation Historic Preservation Office

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**Date:** August 16, 2019

**File:** 1819-4682OK-7

**RE:** DOT, ODOT, JP#32765(04) Bridge Rehabilitation on State Hwy 66 over Shell Creek, Canadian County, Oklahoma

Oklahoma Department of Transportation  
Rhonda Fair  
200 NE 21<sup>st</sup> Street, Room 3A8  
Oklahoma City, OK 73105-3204

Dear Dr. Fair,

The Osage Nation Historic Preservation Office has received notification and accompanying information for the proposed project DOT, ODOT, JP#32765(04) Bridge Rehabilitation on State Hwy 66 over Shell Creek, Canadian County, Oklahoma. There are no known Osage resources within the project area. This office looks forward to reviewing the final report.

The Osage Nation requests that the report include a project site plan map indicating the locations of screened shovel tests labeled by their field identification numbers and a table listing shovel test locations, width (cm), actual depth (cm) of each level, soils of each level, and results. Shovel test minimum width is 30 cm. Shovel test minimum depth is to 50 cm or sterile soil, whichever is encountered first. If terminated before sterile soil is reached, please provide an explanation either in the text or in the shovel test log.

Should you have any questions or need any additional information, please feel free to contact me at the number listed below. Thank you for consulting with the Osage Nation on this matter.

Sincerely,

Jackie Rodgers  
Archaeologist



October 4, 2019

Osage Nation
Attn: Principal Chief Geoffrey Standing Bear
627 Grandview
Pawhuska, OK 74056

Dear Principal Chief Standing Bear:

Re: Section 106 consultation for proposed Federal-Aid undertaking in Canadian County, Oklahoma; JP# 32765(04)

Pursuant to 36 CFR Part 800.2(c)(2), the Oklahoma Department of Transportation is consulting on behalf of the Federal Highway Administration regarding historic properties that may be affected by the following project.

Table with 2 rows and 6 columns: County, Job Piece #, Anticipated Let Date, Project description, etc.

In accordance with 36 CFR Part 800.4, the proposed project area was surveyed for cultural resources in order to identify historic properties that may be affected by the undertaking. A copy of this report is enclosed.

This investigation documented the project bridges. With little definable features and/or historic significance, these bridges are considered to be not eligible for inclusion in the National Register of Historic Places.

If this undertaking may affect properties of religious and cultural significance to your tribe or tribal trust land, please notify me as soon as possible. In order to provide the most thorough consideration of these properties in the planning process, we appreciate receiving your response to this request within 30 days.

If you have any questions or would like to meet regarding this project, please contact me by telephone at 405.521.3632 or by email at rfair@odot.org.

Sincerely,

[Handwritten signature]

Rhonda S. Fair, Ph.D.
Director
ODOT Tribal Coordination

cc: Tribal Historic Preservation Office



July 10, 2019

Wichita & Affiliated Tribes
Attn: President Terri Parton
P.O. Box 729
Anadarko, OK 73005

Dear President Parton:

Re: Section 106 consultation for proposed Federal-Aid undertaking in Canadian County, Oklahoma; JP# 32765(04)

Pursuant to 36 CFR Part 800.2(c)(2), the Oklahoma Department of Transportation is initiating consultation on behalf of the Federal Highway Administration regarding historic properties that may be affected by the following project.

Table with 6 columns: County, Job Piece #, Anticipated Let Date, Project description, Location, Additional information. Contains details about bridge rehabilitation on State Highway 66.

If this undertaking may affect burials, cemeteries, or properties of religious and cultural significance to your tribe, please notify me as soon as possible. Likewise, if this undertaking occurs on land held in trust for the tribe and the tribe has 101(d)(2) status from the National Park Service, please make this office aware of the location of the trust property.

The proposed project area will be subject to a cultural resources survey. The goal of this survey is to make a reasonable and good faith effort to identify historic properties within the area of potential effect, in accordance with 36 CFR Part 800.4.

If you have any questions or would like to meet regarding this project, please contact me by telephone at 405.521.3632 or email at rfair@odot.org.

Sincerely,

[Handwritten signature of Rhonda S. Fair]

Rhonda S. Fair, Ph.D.
Director
ODOT Tribal Coordination

cc: Gary McAdams, THPO

## Rhonda Fair

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**From:** Mary Botone <mary.botone@wichitatribe.com>  
**Sent:** Monday, August 26, 2019 2:44 PM  
**To:** Rhonda Fair  
**Subject:** J\P 32765(04)

At this time, the Wichita & Affiliated Tribes is requesting consulting party status on any proposed projects that the Federal Highway Administration undertakes in the states of Kansas, Oklahoma, Texas, Arkansas, Missouri, Colorado and New Mexico.

Thank you for consulting with the Wichita and Affiliated Tribes, please accept the digital communication regarding J\P # 32765.04 - Bridge Rehabilitation on State Highway 66 over Shell Creek, approximately 8.2 miles east of the US 81 Junction in Yukon, Canadian County, Oklahoma.

Please be advised that the proposed undertaking lies with the traditional territory of the Wichita and Affiliated Tribes. This opinion is being provided by the THPO, Mary M Botone. The Wichita and Affiliated Tribes is a Federally Recognized Indian Nation headquartered in Anadarko, Oklahoma.

At this time, we know of no known sacred and/or ceremonial sites in this immediate area. As the project moves forward we request the following conditions be followed:

- **Inadvertent Discoveries:** In the event that human remains, burials, funerary items, sacred objects of cultural patrimony are ground during project implementation, the proponent or his/her authorized agent shall cease work immediately. They shall take steps to protect the find from further damage or disruption. They shall contact the THPO, Mary M Botone at 405.247.8667 to report the find. The THPO shall contact the appropriate law enforcement authority if human remains are found. No further work shall be allowed on the project until the THPO has approved a plan for managing or preserving the remains or items.
- **Post Review Discoveries:** In the event that pre-contact artifacts (i.e., arrowheads, spear points, mortars, pestles, other ground stone tools, knives, scrapers, pottery or flakes from the manufacture of tools, fire pits, culturally modified trees, etc.) or historic period artifacts or features (i.e., fragments of old plates or ceramic vessels, weathered glass, dumps of old cans, cabins, root cellars, etc.) are found during project implementation, the proponent or his/her authorized agent shall cease work immediately. They then shall contact the THPO, Mary M Botone at 405.247.8667 to report the find. No further work shall be allowed on the project until the THPO has approved a work plan in the new area has been completed.
- **Activities that have the potential to disturb cultural resources outside the areas specified in the accompanying document(s) are not approved and will not proceed until cultural resources review of potential adverse effects in the new area has been completed.**

Please note that these comments are based on information available to us at the time of the project review. We reserve the right to revise our comments as information becomes available. If you have any questions or concerns, please contact me at 405.247.8667 or [mary.botone@wichitatribe.com](mailto:mary.botone@wichitatribe.com)



October 4, 2019

Wichita & Affiliated Tribes
Attn: President Terri Parton
P.O. Box 729
Anadarko, OK 73005

Dear President Parton:

Re: Section 106 consultation for proposed Federal-Aid undertaking in Canadian County, Oklahoma; JP# 32765(04)

Pursuant to 36 CFR Part 800.2(c)(2), the Oklahoma Department of Transportation is consulting on behalf of the Federal Highway Administration regarding historic properties that may be affected by the following project.

Table with 2 rows and 6 columns: County, Job Piece #, Anticipated Let Date, Project description, etc.

In accordance with 36 CFR Part 800.4, the proposed project area was surveyed for cultural resources in order to identify historic properties that may be affected by the undertaking. A copy of this report is enclosed.

This investigation documented the project bridges. With little definable features and/or historic significance, these bridges are considered to be not eligible for inclusion in the National Register of Historic Places.

If this undertaking may affect properties of religious and cultural significance to your tribe or tribal trust land, please notify me as soon as possible. In order to provide the most thorough consideration of these properties in the planning process, we appreciate receiving your response to this request within 30 days.

If you have any questions or would like to meet regarding this project, please contact me by telephone at 405.521.3632 or by email at rfair@odot.org.

Sincerely,

[Handwritten signature]

Rhonda S. Fair, Ph.D.
Director
ODOT Tribal Coordination

cc: Mary Botone, THPO

# **BIOLOGICAL STUDIES**

**BIOLOGICAL STUDIES TRACKING FORM**

NEPA Project Manager	Frank Guerrero
State or Local Government Project	State
USFWS TAILS #	02EKOK00-2019-SLI-2647
Original IPaC List	7/15/2019
Email used to request IpaC official species list	jkteague@ou.edu
Last Updated Species List Date	11/5/2019
ROW	Click here to enter a date.
Let Date	July, 2020 or sooner
90 Day Prior to Let IpaC List	4/1/2020
Duration expected	Click here to enter text.
Original Biological Assessment and Waters and Wetlands Report Prepared By:	OBS- James K. Teague
Most Recent Field Date:	7/22/2019
Original Report Date:	7/25/2019
USFWS Consultation Submittal:	11/5/2019
USFWS Concurrence:	11/6/2019
Original Tracking Form Prepared by :	James K. Teague
Original Tracking Form date:	11/7/2019
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.
<b><i>ADD MORE LINES AS NEEDED FOR EACH TIME PROJECT IS UPDATED</i></b>	

Form Date: May 2018

**Project Name from Oracle**

SH-66 (EB, WB) over Shell Creek approximately 8.2 miles east of US-81

**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  or NEW alignment
- Project involves **NO OFF EXISTING PAVEMENT** work
- Project requires new ROW (permanent &/or temporary)
- Tree removal is expected
- |  |      |
|--|------|
| 0 to 100' from edge of existing pavement   | unkn |
| 100 to 300' from edge of existing pavement | 0    |
| >300' from edge of existing pavement       | 0    |

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

Species	Listing Status	IPaC	Effect Determination for IPaC listed species
		Check if Yes	
Interior Least Tern	Endangered	<input checked="" type="checkbox"/>	No Effect
Red-cockaded Woodpecker	Endangered	<input type="checkbox"/>	Choose an item.
Whooping Crane	Endangered	<input checked="" type="checkbox"/>	May Affect, Unlikely to adversely affect
Gray Bat	Endangered	<input type="checkbox"/>	Choose an item.
Indiana Bat	Endangered	<input type="checkbox"/>	Choose an item.
Ozark Big-eared Bat	Endangered	<input type="checkbox"/>	Choose an item.
Neosho Mucket	Endangered	<input type="checkbox"/>	Choose an item.
Ouachita Rock Pocketbook	Endangered	<input type="checkbox"/>	Choose an item.
Scaleshell Mussel	Endangered	<input type="checkbox"/>	Choose an item.
Winged Mapleleaf	Endangered	<input type="checkbox"/>	Choose an item.
American Burying Beetle	Endangered	<input type="checkbox"/>	Choose an item.
Harperella	Endangered	<input type="checkbox"/>	Choose an item.
Piping Plover	Threatened	<input checked="" type="checkbox"/>	No Effect
Red Knot	Threatened	<input checked="" type="checkbox"/>	No Effect
Northern Long-eared Bat	Threatened	<input type="checkbox"/>	Choose an item
Arkansas River Shiner	Threatened	<input type="checkbox"/>	Choose an item.
Leopard Darter	Threatened	<input type="checkbox"/>	Choose an item.
Neosho Madtom	Threatened	<input type="checkbox"/>	Choose an item.
Ozark Cavefish	Threatened	<input type="checkbox"/>	Choose an item.
American Alligator	Threatened	<input type="checkbox"/>	Choose an item.
Rabbitsfoot Mussel	Threatened	<input type="checkbox"/>	Choose an item.
Rattlesnake-master Borer Moth	Candidate	<input type="checkbox"/>	Choose an item.
Whooping Crane Critical Habitat	Designated	<input type="checkbox"/>	Choose an item.
Arkansas River Shiner Critical Habitat	Designated	<input type="checkbox"/>	Choose an item.
Leopard Darter Critical Habitat	Designated	<input type="checkbox"/>	Choose an item.
Neosho Mucket Critical Habitat	Designated	<input type="checkbox"/>	Choose an item.
Rabbitsfoot Critical Habitat	Designated	<input type="checkbox"/>	Choose an item.

	NEPA Footprint	Construction Footprint
Number of acres within the NEPA Study Footprint & Construction Footprint (if known)	28.933	<a href="#">Click here to enter text.</a>
Number of acres of perennial plant vegetation (ABB habitat) within the NEPA Footprint & Construction Footprint (if known)	N/A	N/A
Number of acres of forested/wooded area (Ibat and NLEB habitat) within the NEPA Footprint & Construction Footprint (if known)	N/A	N/A

Bald Eagle Assessment	May impact
Migratory Bird Assessment of Transportation Structures	Migratory birds found nesting on transportation structures
Migratory bird habitat assessment	nesting habitat for migratory birds will be impacted
Birds of Conservation Concern	Listed BCC may be impacted

**Conservation Commitments**

**Tree Removal Minimization Note:** 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. The Resident Engineer shall ensure that limits of tree removal are clearly defined for the contractor.

**Species Plan Notes**

**Whooping Crane Plan Note:** If Whooping Cranes are seen at or within one mile of the proposed work site, the Resident Engineer shall immediately contact the ODOT Biologist at 405-210-3671. If there is a confirmed siting and/or Whooping Cranes are observed within one mile of the proposed work site, all construction activities shall cease until it is determined that Whooping Cranes have left the project vicinity without being harassed.

**Bald Eagle Note:** Suitable nesting, roosting or foraging habitat for the Bald Eagle occurs within the project’s action area. The Bald Eagle nesting season in Oklahoma extends from September 16, through May 31. The Resident Engineer shall contact the ODOT Biologist at 405-210-3671 to schedule a nest survey. Nest search surveys can only be conducted when leaves are not on the trees typically between December 1st and February 28th. No work may occur within suitable Bald Eagle habitat located between STA. 185+67.00 to 211+50.00 during the nesting season (September 16, through May 31) until the completion of the survey by the ODOT Biologist. If nests are observed, a no-work buffer up to a distance of 660 feet shall be placed around the nest. The exact distance of the buffer zone shall be established by the ODOT Biologist in consultation with US Fish and Wildlife Services. If the buffer cannot be maintained, all clearing, external construction and landscaping activities, within the buffer, shall be conducted between June 1 and September 15 (outside the nesting season).

**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-beam span on SH-66 (westbound) over Shell Creek (NBI#: 12629) was observed. 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. If painting, repair, retrofit, rehabilitation or demolition cannot be completed between September 1 and February 28, the bridges and culverts 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 at 405-210-3671 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).

**Waters and Wetlands Delineation Status**

Original delineation

**Wetlands and Ponds**

<b>Total Number of Sites</b>	<b>Water Body Type</b>	<b>Potential Jurisdiction Status</b>	<b>Acres within the NEPA Footprint</b>
None	Choose an item.	Choose an item.	0
<a href="#">Click here to enter text.</a>	Choose an item.	Choose an item.	<a href="#">Click here to enter text.</a>

**Streams and Drainages**

<b>Total Number of sites</b>	<b>Water body name</b>	<b>USGS Designation</b>	<b>Potential Jurisdictional Status</b>	<b>Acres within the NEPA Footprint</b>	<b>Liner Feet within the NEPA Footprint</b>
1	Shell Creek	mapped perennial	Likely Jurisdictional	0.136	293
4	Tributaries of ditches, streams and Shell Creek	unmapped ephemeral drainages	Unlikely Jurisdictional	0.084	589
<a href="#">Click here to enter text.</a>	<a href="#">Click here to enter text.</a>	Choose an item.	Choose an item.	<a href="#">Click here to enter text.</a>	<a href="#">Click here to enter text.</a>

## Nichols, Elizabeth

---

**From:** Kreisler, Skye <skye\_kreisler@fws.gov>  
**Sent:** Wednesday, November 6, 2019 5:25 PM  
**To:** Nichols, Elizabeth  
**Cc:** Amber McIntyre  
**Subject:** Re: [EXTERNAL] 02EKOK00-2019-SLI-2647\_20191105\_ODOT Canadian JP 32765(04) Consultation Review Package Submittal

02EKOK00-2019-SLI-2647

Hello Liz,

The Service has reviewed the consultation package on the following project:

### **Canadian Co JP 32765(04)**

The Action Area of the above-listed project occurs within range of the endangered **Whooping Crane** stopover and migration. Based upon the information you have provided, the Service concurs with your effect determination for this species, and asks that all conservation measures articulated in the consultation submission be implemented.

The Service asks that the following measures be incorporated where applicable:

- Review and incorporate all applicable "Best Management Practices" (BMPs). A partial list of BMPs is provided on the Service's website at: [https://www.fws.gov/southwest/es/Oklahoma/add\\_docs.htm](https://www.fws.gov/southwest/es/Oklahoma/add_docs.htm).
- Within 90 days prior to start of construction, request a current species list to determine if any changes to federally-listed species have occurred. If changes have occurred, verify with the Service to determine if further consultation is required.

Based on the consultation package and additional information you have provided, your project submission has been reviewed and the online concurrence letter signed by the Field Supervisor is now valid. The above project may proceed as outlined.

If you have any questions concerning this matter please contact me.

Thank you,

### **Skye Kreisler**

Fish and Wildlife Biologist  
U.S. Fish and Wildlife Service  
Oklahoma Ecological Services Field Office  
9014 E. 21st Street  
Tulsa, OK 74129

(918) 581-7458 Main  
(918) 382-4527 Direct  
(918) 581-7467 Fax

On Tue, Nov 5, 2019 at 4:47 PM OK Project Review, FW2 <[okprojectreview@fws.gov](mailto:okprojectreview@fws.gov)> wrote:

----- Forwarded message -----

From: **Nichols, Elizabeth** <[elizabeth.nichols@ou.edu](mailto:elizabeth.nichols@ou.edu)>

Date: Tue, Nov 5, 2019 at 1:42 PM

Subject: [EXTERNAL] 02EKOK00-2019-SLI-2647\_20191105\_ODOT Canadian JP 32765(04) Consultation Review Package Submittal

To: [okprojectreview@fws.gov](mailto:okprojectreview@fws.gov) <[okprojectreview@fws.gov](mailto:okprojectreview@fws.gov)>

Cc: Amber McIntyre <[amcintyre@odot.org](mailto:amcintyre@odot.org)>

Elizabeth Nichols  
Highway Biologist  
Oklahoma Department of Transportation  
Oklahoma Biological Survey  
111 E. Chesapeake  
Norman, OK 73019  
405.325.6802 (office)  
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# United States Department of the Interior

## FISH AND WILDLIFE SERVICE

Division of Ecological Services  
9014 East 21<sup>st</sup> Street  
Tulsa, Oklahoma 74129  
918/581-7458 / (FAX) 918/581-7467



### Online Project Review Concurrence Letter

To:

Project Name:

'Eqpuwncvkqp'Eqf g<

Dear Applicant:

Thank you for using the U.S. Fish and Wildlife Service (Service) Oklahoma Ecological Services Field Office (ESFO) online project review process. By providing this letter in conjunction with your complete project review package, you are certifying that you have accurately completed the online project review process for the referenced project in accordance with all instructions provided, using the best available information to reach your conclusions. Concurrence with “not likely to adversely affect” determinations does not provide any exemption for violations of section 9 of the Endangered Species Act of 1973 (16 U.S.C. 1531-1544, 87 Stat. 884), as amended (ESA) or “take” of federally-listed species. The Federal action agency is ultimately responsible for ensuring compliance with the ESA and any take that occurs due to your proposed action would be considered a violation under section 9 of the ESA.

This letter and the enclosed project review package complete the review of your project in accordance with the ESA. This letter also provides information for your project review under the National Environmental Policy Act (National Environmental Policy Act of 1969 (P.L. 91-190, 42 U.S.C.4321-4347, 83 Stat. 852), as amended.

A copy of this letter and the project review package must be emailed to **okprojectreview@fws.gov** for this certification to be valid. This letter and the project review package will be maintained in Service records. **Please allow the Oklahoma ESFO 45 days to review your information. If the Oklahoma ESFO determines that the package is not complete, or that additional coordination is necessary, we will contact your office. If, after 45 days from the date of your email submittal of your project review package, the Oklahoma ESFO has not contacted your office, consider your section 7 consultation complete.**

The proposed action consists of:

Project start and completion dates:

Federal agency or federal program providing a permit, funding, grant, authorization, loan, etc. associated with the proposed project and how that agency is associated with your project:

Federal Agency/Program Point of contact (Name, phone, and email address):

The species conclusions table in the enclosed project review package summarizes your ESA conclusions. These conclusions resulted in “not likely to adversely affect/modify” determinations for listed species and critical habitat in relation to potential effects of your proposed project. We certify that the use of the online project review process in strict accordance with the instructions provided as documented in the enclosed project review package results in reaching the appropriate determinations. Therefore, we concur with determinations of “not likely to adversely affect” for listed species and critical habitat reached by proper use of this process. For projects where this particular determination is reached, additional coordination with this office is not needed.

Candidate species are not legally protected pursuant to the ESA. However, the Service encourages efforts to avoid or minimize adverse impacts to them from project effects. Some federal agencies have standing policies that grant limited protections to candidate species. Conservation of candidate species now may preclude future needs to federally list them as endangered or threatened, at which point their legal protection would become required. Please contact this office for additional coordination if your project action area contains candidate species.

Should project plans change or if additional information on the distribution of listed species or critical habitat becomes available, this determination may be reconsidered. You should re-visit the Service's Information, Planning, and Conservation (IPaC) website at <http://ecos/fws.gov/ipac/> within 90 days of project initiation to ensure species information is correct. If new species or critical habitat is identified, this letter is no longer valid and a new project package should be submitted to the Oklahoma ESFO.

Information about the online project review process including instructions and use, species information, and other information regarding project reviews within Oklahoma is available at our website: <<http://www.fws.gov/southwest/es/oklahoma/>>. If you have any questions, please call 918-581-7458 or send an email message to [OKProjectReview@fws.gov](mailto:OKProjectReview@fws.gov).

Sincerely,  
/s/ Jonna Polk  
Field Supervisor  
Oklahoma Ecological Services Field Office

Enclosures:

- 1) ENTIRE PROJECT REVIEW  
PACKAGE: Species Conclusion Table  
IPaC Species List and Action Area map  
This letter (Online Concurrence Letter)  
(Optional) Additional maps
- 2) Other relevant project data/documents

**THREATENED AND CANDIDATE SPECIES, DESIGNATED CRITICAL HABITAT,  
BALD EAGLE AND SWALLOW ASSESSMENTASSESSMENT**

**For**

<b>USFWS TAILS #</b>		02EKOK00-2019-SLI-2647			
Email used to request IPaC official species list		jkteague@ou.edu			
County	Canadian	JP Number	32765(04)	Project Number	
Road Number	SH-66	Water Body Name		Shell Creek	
ROW Date		Let Date	July, 2020	Project Length	1.070 miles
Project General Location		Approximately 8.2 miles east of the US-81 junction, located just west of Yukon, OK			
Project Description & Statement From Oracle		Bridge Rehabilitation on SH-66 WB & EB over Shell Creek			

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

Prepared by:

Biologist Name	James K. Teague
Company/Agency Name	ODOT Biological Studies Program at OU
Address	111 E. Chesapeake St.
City, State Zip	Norman, OK 73019

Report Date:	July 25, 2019
Field Survey Date	July 22, 2019
Field Survey Biologist(s)	James K. Teague

## 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 project area occurs in a rolling, rural area of Canadian County. The existing stretch of SH-66 in the study area is a four lane divided highway with 12ft lanes with no shoulders. The driving lanes are divided by a grass median. Approximately 5,700 vehicles use the roadway each day but this is expected to increase to 9,120 vehicles in the future. The existing SH-66 eastbound and westbound bridges over Shell Creek (NBI#: 12630 and 12629) are 32ft x 162ft I-beam concrete spans constructed in 1951; they are considered functionally obsolete and structurally deficient. The proposed action is needed to improve the safety and longevity of the existing stream crossings.

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

The ODOT proposes to rehabilitate the existing SH-66 bridges over Shell Creek. The work includes full deck replacement as well as repairing the pier substructures, slope walls, and creek bed. The new bridges will consist of two 12ft drive lanes, 4ft inside shoulders, and 10ft outside shoulders. The roadway will remain open during construction operations; traffic will be diverted onto opposing lanes using median crossovers. Earthwork will occur within the medians and immediately adjacent to the bridges; tree clearing is likely for access. Work roads may be needed.

#### Check if any of the following is expected s part of the proposed action

- |  |                                     |
|--|-------------------------------------|
| Work within OHWM is expected   | <input checked="" type="checkbox"/> |
| Project is OFF-SET alignment <input type="checkbox"/> or NEW alignment | <input type="checkbox"/>            |
| Project involves <b>NO OFF EXISTING PAVEMENT</b> work                  | <input type="checkbox"/>            |
| Project requires new ROW (permanent &/or temporary)                    | <input type="checkbox"/>            |
| Tree removal is expected 0-100' from edge of existing pavement         | <b>unkn</b>                         |
| 100-300' from edge of existing pavement                                | <b>0</b>                            |
| >300' from edge of existing pavement                                   | <b>0</b>                            |

**1.3. Project Area and Setting**

Project Location		Environmental Study Footprint		Ecoregion & Game Type	
Section Range & Township	Lat/Long NAD 83)	Dimensions	Acreage	Level IV Ecoregion (Woods et al. 2005)	Game Type (Duck and Fletcher 1943)
Secs. 13 & 24 T12N, R6W	W. ext. (-97.8021W, 35.5080N);  E. ext. (-97.7829W, 35.5077N)	1.070 miles long; 240ft wide	28.933	Prairie Tableland	Bottomland and Tallgrass Prairie

**Action Area:**

An approximate action area boundary was developed within IpAC to acquire the species list for the proposed project. The official action area was determined from the species with the greatest sensitivity to disturbance. For this project, the sensitivities of the Interior Least Tern, Whooping Crane, Piping Plover, and Red Knot were used to produce the official action area boundary (See Figure 2).

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

**Species Range and Occurrence Evaluation (Check  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
Interior Least Tern	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Whooping Crane	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Piping Plover	<input checked="" type="checkbox"/>			<input type="checkbox"/>
Red Knot	<input checked="" type="checkbox"/>			<input type="checkbox"/>

<sup>1</sup>Species is on the Proposed Project's IPaC List

<sup>2</sup>Action Area is within a watershed associated with occupied water bodies

<sup>3</sup>Action Area includes an occupied water body

<sup>4</sup>Project site within 5 miles of known records

Designated or Proposed Critical Habitat	Action Area includes Designated Critical Habitat (Check <input checked="" type="checkbox"/> if Yes)
Whooping Crane	<input type="checkbox"/>

Action area is within what percentage **Whooping Crane** migratory corridor **80%**  
 Action area is within 15 miles of Salt Plains NWR, Hackberry Flat, or Foss Reservoir.

### 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 (1%) slopes
Soil Class	Central Rolling Red Prairies
Soil Name	Pond Creek-Norge-Minco-Lovedale-Bethany
Soil Type	Mollisols
Soil Characteristics	Very deep and humus-rich soils on gentle (6%) slopes

Climate (Use Woods et al. 2005)

Precipitation	Mean annual inches	27-37
Growing Season	Number of days	190-215
Mean Temperatures	Summer min/max	70/95
	Winter min/max	20/50

River System

Shell Creek
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Land Use and Land Ownership

From Woods et al. 2005	Prairie Tableland
From Field investigation	maintained roadside, medians, and fence lines; graze land and hay fields; forested uplands and riparian areas; as well as ephemeral and perennial streams

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

<p>The project area occurs in a rolling, rural area of Canadian County. The landscape drains into the SH-66 ditches, ephemeral streams, and Shell Creek. The study area is composed of: maintained roadside, medians, and fence lines; graze land and hay fields; forested uplands and riparian areas; as well as ephemeral and perennial streams (See Figures 5a and 5b). The roadside, medians, fence lines, and fields are composed of, in varying combinations, lanceleaf fogfruit (<i>Phyla lanceolata</i>), common dayflower (<i>Commelina communis</i>), mock cucumber (<i>Echinocystis</i> sp.), sneezeweed (<i>Helenium amarum</i>), American pokeweed (<i>Phytolacca americana</i>), Bermuda grass (<i>Cynodon dactylon</i>), Johnsons grass (<i>Sorghum halepense</i>), silver beard grass (<i>Bothriochloa laguroides</i>), field bindweed (<i>Convolvulus arvensis</i>), mat sandbur (<i>Cenchrus longispinus</i>), Florida paspalum (<i>Paspalum floridanum</i>), prickly lettuce (<i>Lactuca</i> sp.), Canadian horseweed (<i>Conyza canadensis</i>), foxtail (<i>Setaria</i> sp.), sagebrush (<i>Artemisia</i> sp.), buffalo grass (<i>Bouteloua dactyloides</i>), silverleaf nightshade (<i>Solanum elaeagnifolium</i>), Queen Anne's lace (<i>Daucus carota</i>), false dandelion (<i>Nothocalais</i> sp.), thistle (<i>Cirsium</i> sp.), great ragweed (<i>Ambrosia trifida</i>), Western soapberry (<i>Sapindus saponaria</i>), pecan (<i>Carya illinoensis</i>), American elm (<i>Ulmus americana</i>), and hackberry (<i>Celtis occidentalis</i>). The forested uplands</p>
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and riparian areas are composed of American pokeweed, Bermuda grass, Johnsons grass, silver beard grass, Florida paspalum, Canadian horseweed, foxtail, buffalo grass, Queen Anne’s Lace, great ragweed, Western soapberry, pecan, American elm, hackberry, Canadian wild rye (*Elymus* sp.), Missouri gourd (*Cucurbita foetidissima*), saw greenbrier (*Smilax bona-nox*), poison ivy (*Toxicodendron radicans*), trumpet creeper (*Campsis radicans*), Virginia creeper (*Parthenocissus quinquefolia*), grape vine (*Vitis* sp.), coralberry (*Symphoricarpos orbiculatus*), Chinaberry (*Melia* sp.), sugarberry (*Celtis laevigata*), hickory (*Carya* sp.), and boxelder (*Acer negundo*). The stream beds and banks are partially composed of Bermuda grass, dayflower, Johnsons grass, Florida paspalum, great ragweed, poison ivy, boxelder, sedge (*Carex* sp.), buttonbush (*Cephalanthus occidentalis*), and black willow (*Salix nigra*).

**3.2 Species Habitat Analysis**

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

SPECIES	HABITAT	
Interior Least Tern	Sparsely vegetated islands or sandbars along large rivers, with nearby areas of shallow water, occur within the <b>0.25 miles of the NEPA Environmental Study Footprint.</b>	<input type="checkbox"/>
Whooping Crane	Shallowly-submerged sandbars in large river channels occur within the <b>0.25 miles of the NEPA Environmental Study Footprint.</b>	<input type="checkbox"/>
	If within the 75% migration corridor, provide the number of acres of emergent wetlands that occur within the <b>NEPA Environmental Study Footprint.</b>	0
	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.	<input checked="" type="checkbox"/>
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>	<input type="checkbox"/>
	Salt flats and mudflats associated with reservoirs occur within the <b>0.25 miles of the NEPA Environmental Study Footprint.</b>	<input type="checkbox"/>
Red Knot	Mudflats associated with reservoirs occur within the <b>0.25 miles of the NEPA Environmental Study Footprint.</b>	<input type="checkbox"/>

**4. ANALYSIS OF EFFECTS**

**4.1 Direct Effects**

Species/ Resource	Habitat impacts expected from project activities	<u>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.</u> <u>If habitat within the action area identified above will not be impacted, describe why.</u>
Whooping Crane	<input type="checkbox"/>	The fields adjacent to the study area may provide stopover opportunities for the species if it occurs in the action area. The proposed action due to earthwork and noise pollution may deter use of this habitat during the course of the project. Any impacts will be incidental.

**4.2 Indirect Effects**

Long-term habitat alterations

Species/ Resource	<u>Identify long-term, permanent changes in habitat</u>
Whooping Crane	None

Indirect land use impacts

The proposed action will occur entirely within the existing right-of-way and will not impact land use.
--

**4.3 Interrelated and Interdependent Actions and Activities**

The project involves replacement of existing roadway or bridge structures, with no capacity expansion, and the project will not impact current land use in the area, no interrelated and interdependent actions are expected.
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<b>USFWS TAILS Number:</b>	02EKOK00-2019-SLI-2647
<b>ODOT Project JP Number:</b>	32765(04)

**Species Conclusion Table (Check  which apply)**

<b>SPECIES / DESIGNATED CRITICAL HABIT</b>	<b>CONCLUSION</b>		<b>ESA SECTION 7</b>			<b>NOTES AND DOCUMENTATION Check <input checked="" type="checkbox"/> all that apply</b>			
	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	database review <sup>1</sup>	USFWS Review <sup>2</sup>	Other <sup>3</sup>
Interior Least Tern	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Whooping Crane	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Piping Plover	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Red Knot	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<sup>1</sup>ONHI rare species / ABB

<sup>2</sup>USFWS occupied water bodies and associate watershed maps

<sup>3</sup>Whooping Crane Migration Corridor Map; LPC Habitat Model

**CONCLUSIONS (include determinations for Programmatic Species, if known)**

No Effect	Interior Least Tern, Piping Plover, and Red Knot
May affect, not likely to adversely affect	Whooping Crane
May affect, likely to adversely affect	
Not likely to jeopardize the continued existence of the species – Candidate species only	

**RECOMMENDED AVOIDANCE AND MINIMIZATION MEASURES**

If Whooping Cranes are seen at or within one mile of the proposed work site, the Resident Engineer shall immediately contact the ODOT Biologist at 405-210-3671. The location and time a Whooping Crane was seen shall be recorded and provided to the ODOT Biologist. If there is a confirmed siting and/or Whooping Cranes are observed within one mile of the proposed work site, all construction activities shall cease until it is determined that Whooping Cranes have left the project vicinity without being harassed. An 8x10 photograph of the Whooping Crane along with a written description of the bird, as well as ODOT contact information, shall be posted at the construction site at all times.

**5. BALD EAGLE AND SWALLOW ASSESSMENT**

**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	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Some mature pecan in the forested uplands and riparian areas.
Open foraging areas with large trees	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Primarily open fields and some ponds
Distance to closest perennial water body	River or Lake	1.2	Shell Creek is a perennial stream in the project area. North Canadian River is 1.2 miles north
	Stream or Pond	w/in	
Potential Bald Eagle Nests Observed	<input type="checkbox"/>	<input type="checkbox"/>	No
Bald Eagles Observed in the general vicinity	<input type="checkbox"/>	<input type="checkbox"/>	No

General Description of Bald Eagle Nesting Habitat and Impact Determination, within the NEPA Footprint and within 660-ft of the NEPA Footprint	Marginally suitable nesting and foraging habitat. The proposed action will result in clearing of forested areas adjacent to the bridges in the existing right-of-way and may deter use of adjacent habitat due to noise pollution.
Station #s for Buffered Bald Eagle Habitat	STA#s: 185+67.00 to 211+50.00
In order to avoid impacts to Bald Eagles, if Bald Eagles or their habitat are observed during the biological assessment, a survey for eagles and their nests will be conducted within 660 feet of the work zone, during the winter prior to, and within one year of, the start of construction. If a nest is found, appropriate conservation measures based on the National Bald Eagle Management Guidelines will be implemented.	

**5.2 Migratory Bird 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 positive or negative for migratory birds (identify named streams where possible rather than just FS#). Provide shapefiles and map of structures identifying pos/neg swallow structures.	Approx. Number of Cliff Swallow Nests	Approx. Number of Barn Swallow Nests	Approx. Number of Eastern Phoebe Nests
RCB across SH-66 at (~ -97.7987W, 35.5078N) (not in plan extent)	0	0	0
I-beam span on SH-66 EB over Shell Creek (NBI#: 12630)	0	0	0
I-beam span on SH-66 WB over Shell Creek (NBI#: 12629)	0	1	0
Other MB and Nests Observed	none		
Based on existing plans, no work on suitable drainage structures will occur	<input type="checkbox"/>		
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.			

## 5.2 Birds of Conservation Concern

<u>Species Identified on IPaC list</u>	<u>Breeding Season</u>
American Golden-plover	Breeds elsewhere
Buff-breasted Sandpiper	Breeds elsewhere
Harris' Sparrow	Breeds elsewhere
Hudsonian Godwit	Breeds elsewhere
Lesser Yellowlegs	Breeds elsewhere
Red-headed Woodpecker	May 10 to September 10
Semipalmated Sandpiper	Breeds elsewhere
Whimbrel	Breeds elsewhere
Willet	April 20 to August 5
Tree removal and noise from construction may impact the Red-headed woodpecker and Willet if they occur in the area at the time of construction.	
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. REFERENCES:

Brown, Charles R. and Mary Bomberger Brown. 1999. Barn Swallow (*Hirundo rustica*) and Cliff Swallow (*Petrochelidon pyrrhonota*): The Birds of North America Online (A. Poole, Ed.). Ithaca: Cornell Lab of Ornithology accessed from <http://bna.birds.cornell.edu/> on March 29, 2019.

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. 1945. A survey of the game and furbearing animals of Oklahoma; Chapter 2, The Game Types of Oklahoma. Oklahoma Game and Fish Commission, Division of Wildlife Restoration and Research. Oklahoma City.

Endangered Species Act of 1973, as Amended, 50 C.F.R. § 402

Oklahoma Natural Heritage Inventory. 2019. Element Database. Oklahoma Natural Heritage Inventory, Oklahoma Biological Survey, Norman, OK.

United States Code Title 16, Chapter 7, Subchapter 2, sections 703-712. The Migratory Bird Treaty Act of 1918.

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

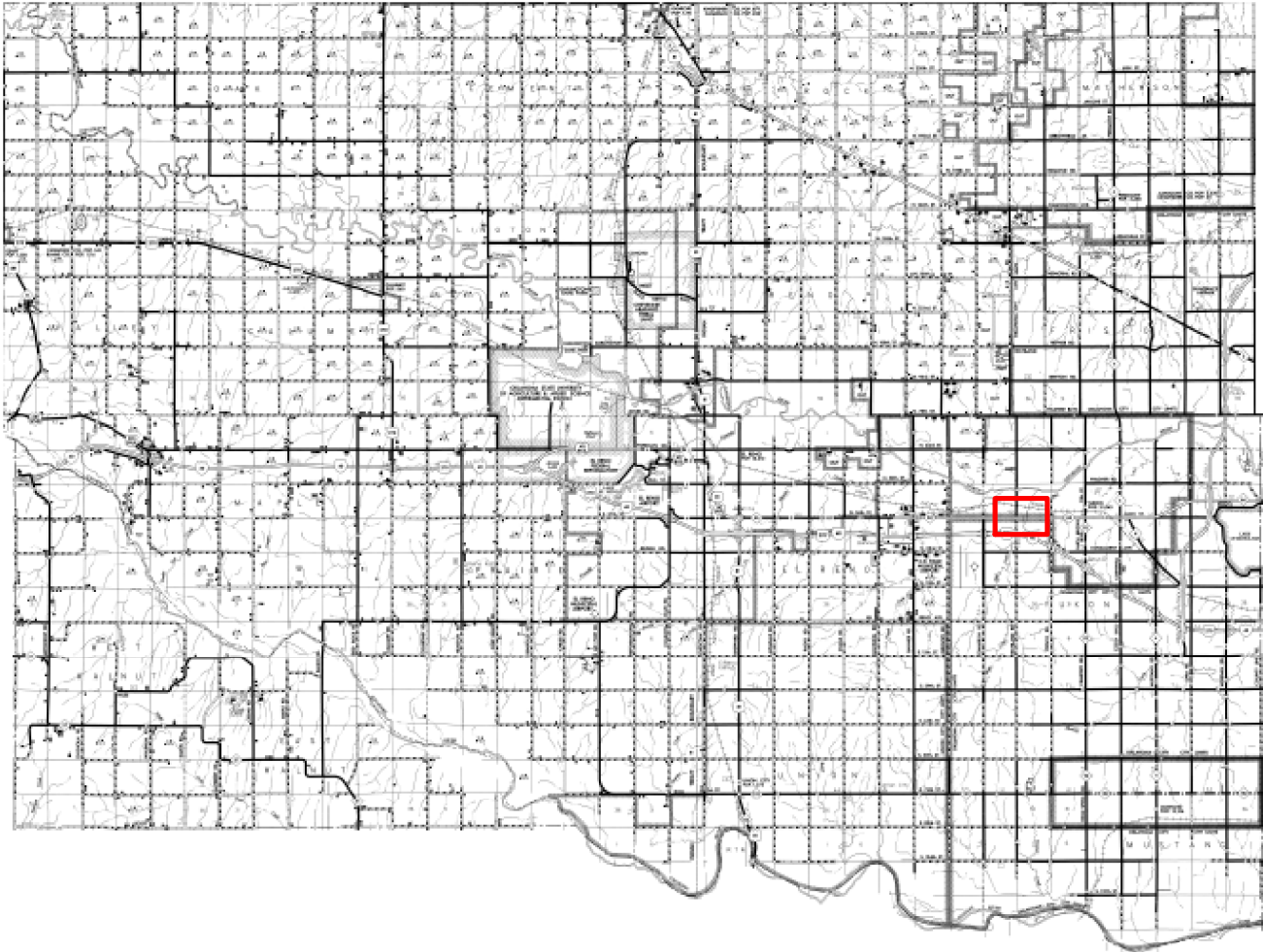


Figure 1. County Wide Section Line Map

 Project Location



Canadian County  
J/P 32765(04)

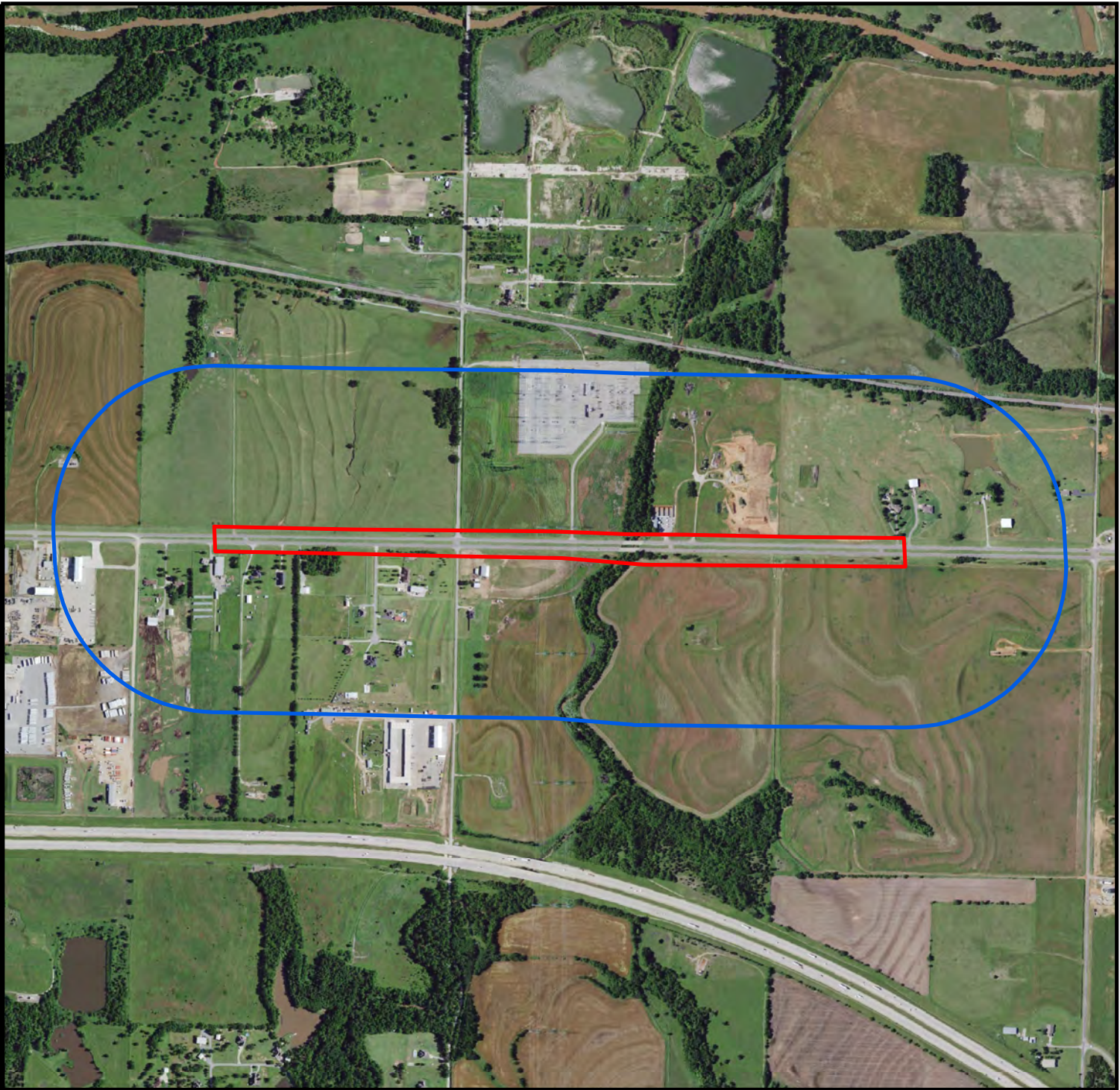




Figure 2. Action Area Map

-  Study Area
-  Action Area



Canadian County

J/P 32765(04)

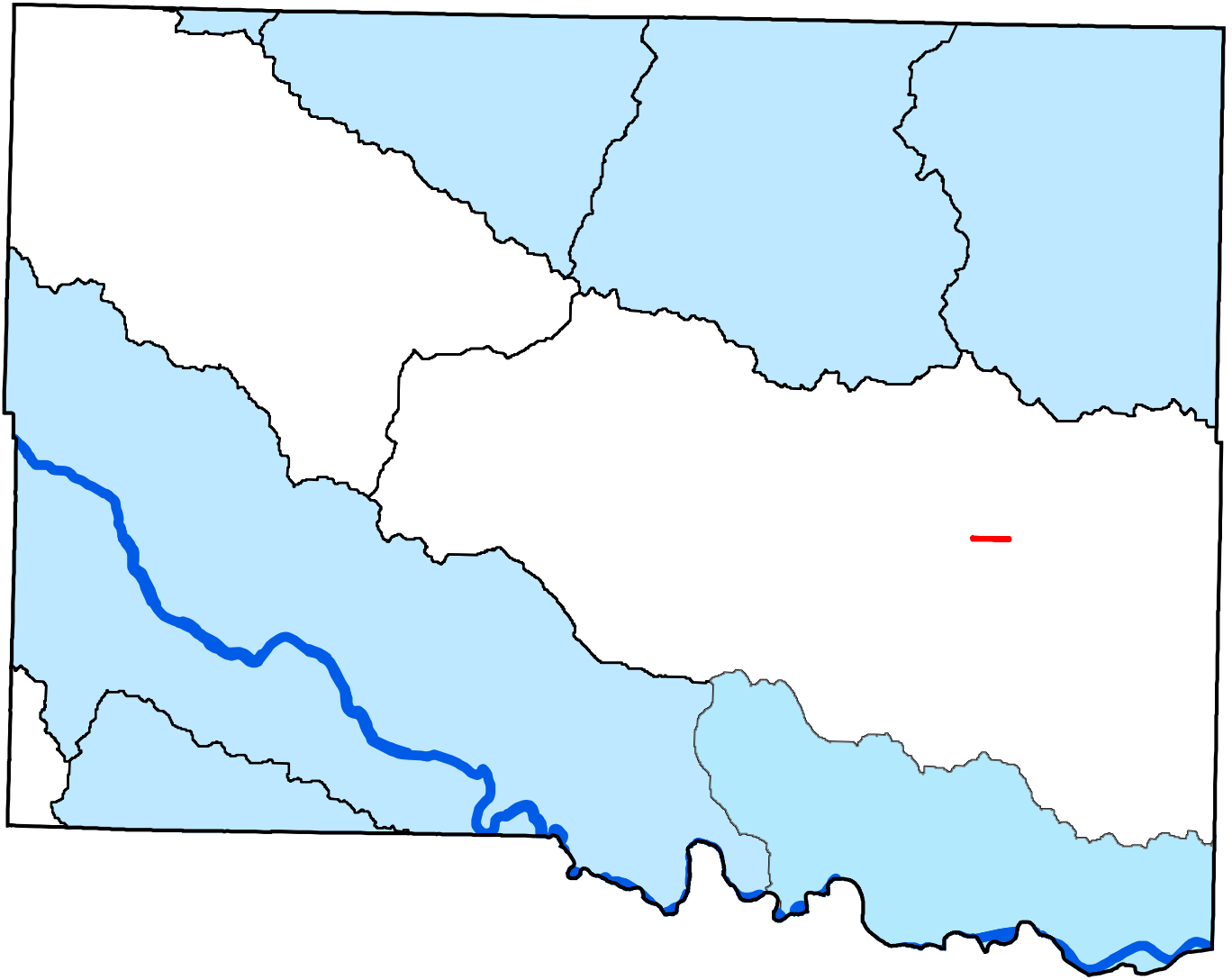


Figure 3. Critical Habitat, Occupied Waterbodies and Watersheds

- Interior Least Tern Aquatic Dependent Species Watersheds  
Arkansas River shiner Aquatic Species Watersheds
- Project Location
- Oklahoma Streams
- Interior Least Tern occupied waterbodies  
Arkansas River shiner critical habitat

## Canadian County

J/P 32765(04)



Source: USFWS, Oklahoma Ecological Services Field Office, April, 2010 (11 digit HUC watersheds)

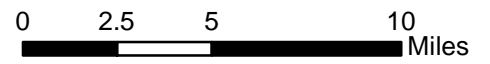




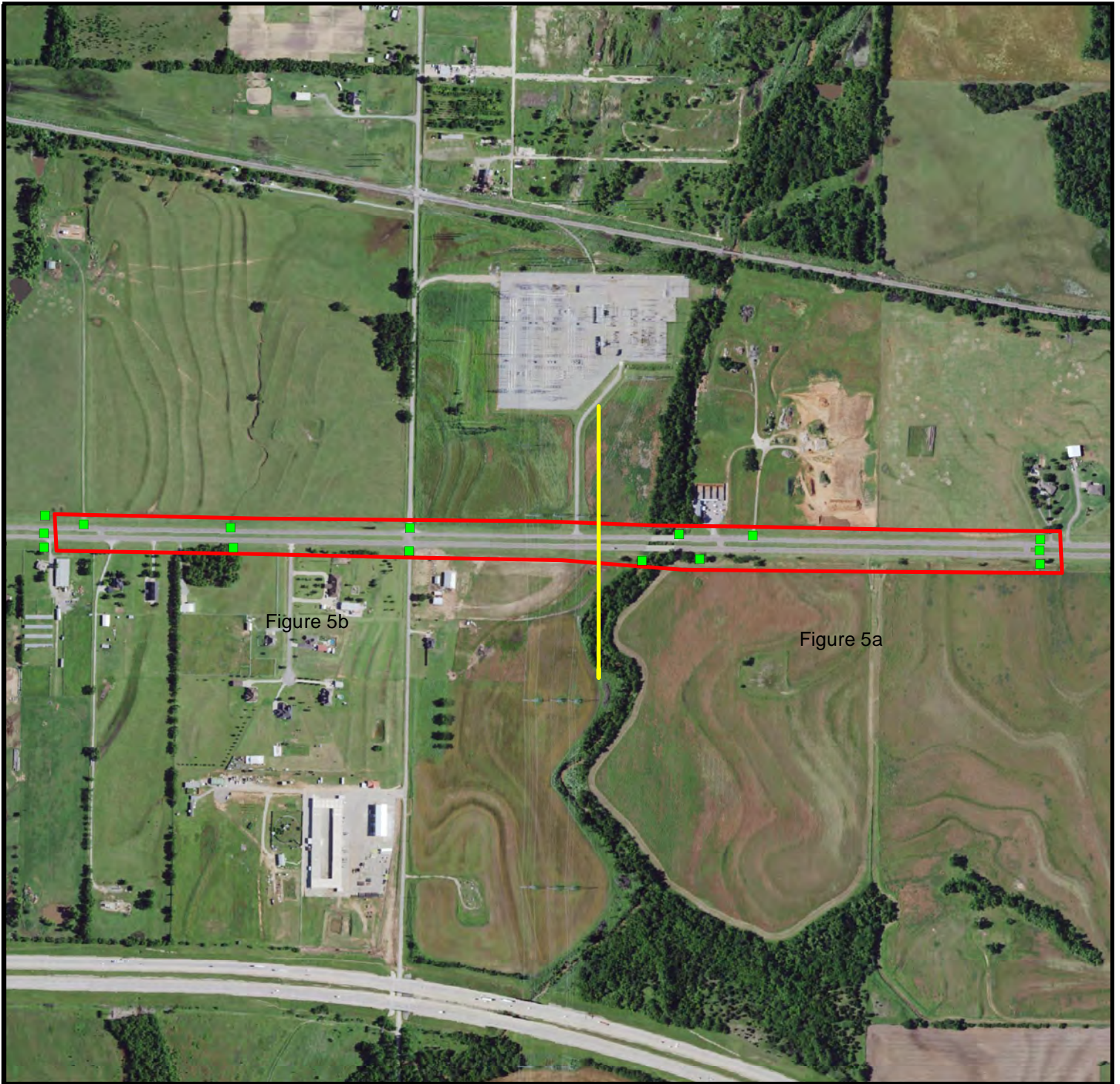
Figure 4. Swallow Survey Map

- Study Area
- Suitable Sites, No Swallow activity
- Barn Swallow activity
- Drop Inlet



Canadian County

J/P 32765(04)



## Photo Site Map Index Sheet



Study Area



Photo Site



Canadian County

J/P 32765(04)



Figure 5a. Photo Site Map

-  Study Area
-  Photo Site



Canadian County  
J/P 32765(04)



Figure 5b. Photo Site Map


 Study Area

 Photo Site




Canadian County

J/P 32765(04)

USDA-APFO National Agriculture Imagery Program  
2017 Digital Orthophotography

0 200 400 800 Feet



Appendix A: Photo Images for ODOT J/P 32765(04) Bridge Rehabilitation on SH-66 over Shell Creek in Canadian County, Oklahoma



Image 1 (PS 1): looking NE from the north side of SH-66 westbound lanes.



Image 2 (PS 1): looking NW from the north side of SH-66 westbound lanes.



Image 3 (PS 1): looking W from the SH-66 median.



Image 4 (PS 1): looking E from the SH-66 median.

Appendix A: Photo Images for ODOT J/P 32765(04) Bridge Rehabilitation on SH-66 over Shell Creek in Canadian County, Oklahoma



Image 5 (PS 3): looking SE from the southside of the SH-66 eastbound lanes.



Image 6 (PS 3): looking SW from the southside of the SH-66 eastbound lanes.



Image 7 (PS 4): looking NE from the northside of the SH-66 westbound lanes.



Image 8 (PS 4): looking NW from the northside of the SH-66 westbound lanes.

Appendix A: Photo Images for ODOT J/P 32765(04) Bridge Rehabilitation on SH-66 over Shell Creek in Canadian County, Oklahoma



Image 9 (PS 5): looking W (downstream) at an ephemeral stream.



Image 10 (PS 6): looking N (downstream) at Shell Creek.



Image 11 (PS 6): looking S (upstream) at Shell Creek.



Image 12 (PS 7): looking N at Shell Creek.

Appendix A: Photo Images for ODOT J/P 32765(04) Bridge Rehabilitation on SH-66 over Shell Creek in Canadian County, Oklahoma



Image 13 (PS 8): looking NE from the northside of the SH-66 westbound lanes.



Image 14 (PS 8): looking NW from the northside of the SH-66 westbound lanes.



Image 15 (PS 9): looking SW from the southside of the SH-66 eastbound lanes.



Image 16 (PS 9): looking SE from the southside of the SH-66 eastbound lanes.

Appendix A: Photo Images for ODOT J/P 32765(04) Bridge Rehabilitation on SH-66 over Shell Creek in Canadian County, Oklahoma



Image 17 (PS 10): looking S (downstream) at an ephemeral stream.



Image 18 (PS 11): looking SW (upstream) at an ephemeral stream.



Image 19 (PS 12): looking NE from the northside of the SH-66 westbound lanes.



Image 20 (PS 12): looking NW from the northside of the SH-66 westbound lanes.

Appendix A: Photo Images for ODOT J/P 32765(04) Bridge Rehabilitation on SH-66 over Shell Creek in Canadian County, Oklahoma



Image 21 (PS 13): looking NE from the northside of the SH-66 westbound lanes.



Image 22 (PS 13): looking NW from the northside of the SH-66 westbound lanes.



Image 23 (PS 14): looking W from the SH-66 median.



Image 24 (PS 14): looking E from the SH-66 median

Appendix A: Photo Images for ODOT J/P 32765(04) Bridge Rehabilitation on SH-66 over Shell Creek in Canadian County, Oklahoma



Image 25 (PS 15): looking SW from the southside of the SH-66 eastbound lanes.



Image 26 (PS 15): looking SE from the southside of the SH-66 eastbound lanes.



## 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:

November 05, 2019

Consultation Code: 02EKOK00-2019-SLI-2647

Event Code: 02EKOK00-2020-E-00769

Project Name: Canadian CO JP 32765(04)

Subject: Updated list of threatened and endangered species that may occur in your proposed project location, and/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](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 <http://www.fws.gov/southwest/es/oklahoma/OKESFO%20Permit%20Home.htm>.

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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

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## Project Summary

Consultation Code: 02EKOK00-2019-SLI-2647

Event Code: 02EKOK00-2020-E-00769

Project Name: Canadian CO JP 32765(04)

Project Type: BRIDGE CONSTRUCTION / MAINTENANCE

Project Description: Bridge Rehabilitation on SH-66 (WB, EB) over Shell Creek approximately 8.2 miles east of the US-81 junction

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/35.50783673540329N97.79245552420593W>



Counties: Canadian, OK

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## Endangered Species Act Species

There is a total of 4 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.

- 
1. [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
Least Tern <i>Sterna antillarum</i> Population: interior pop. No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/8505">https://ecos.fws.gov/ecp/species/8505</a>	Endangered
Piping Plover <i>Charadrius melodus</i> Population: [Atlantic Coast and Northern Great Plains populations] - Wherever found, except those areas where listed as endangered. There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/6039">https://ecos.fws.gov/ecp/species/6039</a>	Threatened
Red Knot <i>Calidris canutus rufa</i> 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>	Threatened
Whooping Crane <i>Grus americana</i> Population: Wherever found, except where listed as an experimental population There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/758">https://ecos.fws.gov/ecp/species/758</a>	Endangered

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## **Critical habitats**

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

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# USFWS National Wildlife Refuge Lands And Fish Hatcheries

Any activity proposed on lands managed by the [National Wildlife Refuge](#) 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.

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# 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 [below](#).

- 
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 [USFWS Birds of Conservation Concern](#) (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 [below](#). 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 [E-bird data mapping tool](#) (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. <a href="https://ecos.fws.gov/ecp/species/1626">https://ecos.fws.gov/ecp/species/1626</a>	Breeds Oct 15 to Jul 31

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NAME	BREEDING SEASON
<b>Buff-breasted Sandpiper <i>Calidris subruficollis</i></b> 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/9488">https://ecos.fws.gov/ecp/species/9488</a>	Breeds elsewhere
<b>Harris's Sparrow <i>Zonotrichia querula</i></b> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
<b>Hudsonian Godwit <i>Limosa haemastica</i></b> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
<b>Lesser Yellowlegs <i>Tringa flavipes</i></b> 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
<b>Red-headed Woodpecker <i>Melanerpes erythrocephalus</i></b> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 10 to Sep 10
<b>Semipalmated Sandpiper <i>Calidris pusilla</i></b> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
<b>Whimbrel <i>Numenius phaeopus</i></b> 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/9483">https://ecos.fws.gov/ecp/species/9483</a>	Breeds elsewhere
<b>Willet <i>Tringa semipalmata</i></b> 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 (|)**

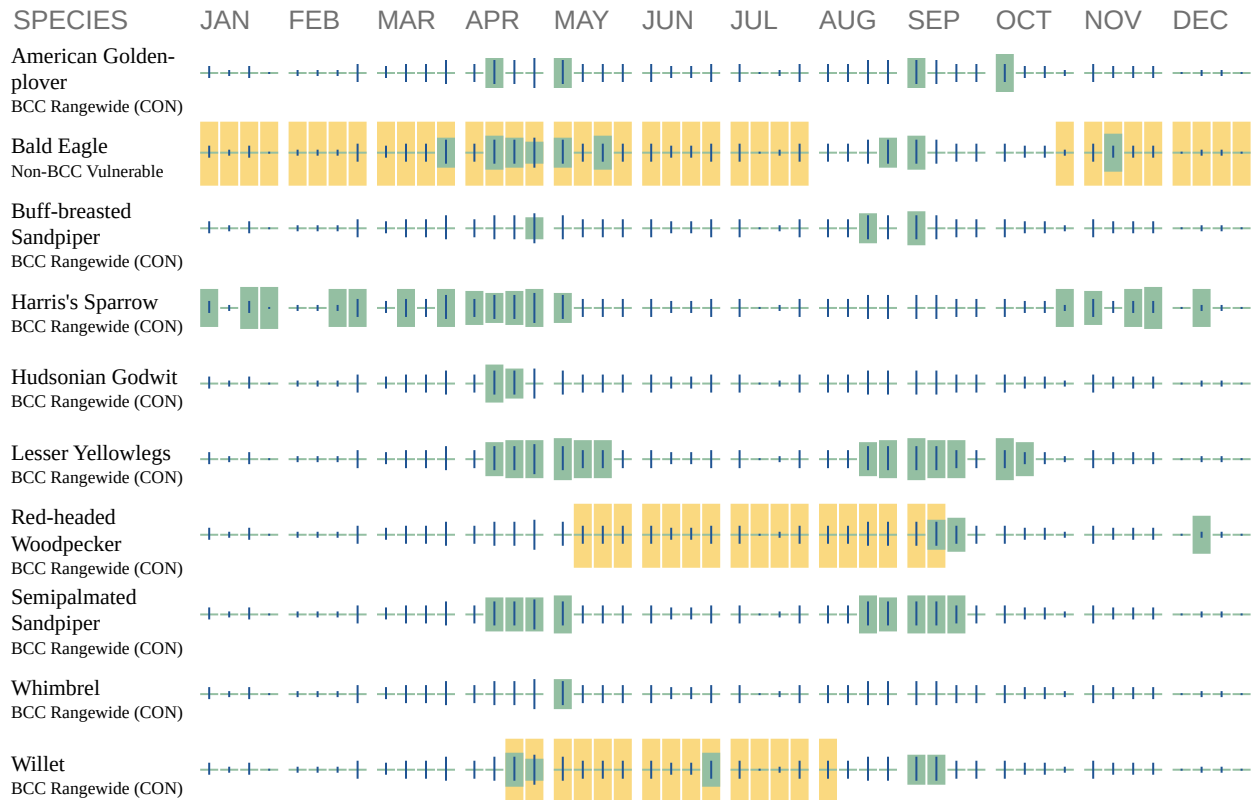
Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

### **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 <http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php>
- Measures for avoiding and minimizing impacts to birds <http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php>
- Nationwide conservation measures for birds <http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf>

## 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](#) and/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 [Birds of Conservation Concern \(BCC\)](#) 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 [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) 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 ([Eagle Act](#) 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 [AKN Phenology Tool](#).

### **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 [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

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 to 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?**

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

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (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 [Eagle Act](#) 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 [Northeast Ocean Data Portal](#). 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 [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) 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 [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

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

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) 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

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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.

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# Wetlands

Impacts to [NWI wetlands](#) 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.S. Army Corps of Engineers District](#).

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.

FRESHWATER FORESTED/SHRUB WETLAND

- [PFO1A](#)
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# WATERS AND WETLANDS EVALUATION REPORT

## For

County	Canadian	JP Number	32765(04)	Project Number	
Road Number	SH-66	Water Body Name		Shell Creek	
ROW Date		Let Date	July, 2020	Project Length	1.070 miles
Project General Location		Approximately 8.2 miles east of the US-81 junction, located just west of Yukon, OK			
Project Statement		Bridge Rehabilitation on SH-66 WB & EB over Shell Creek			

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

### Prepared by:

Biologist Name	James K. Teague
Company/Agency Name	ODOT Biological Studies Program at OU
Address	111 E. Chesapeake St.
City, State Zip	Norman, OK 73019

Report Date:	July 25, 2019
Field Date:	July 22, 2019

**PROJECT OVERVIEW**

<b>Project Type (Choose one)</b>	<b>Check <input type="checkbox"/></b>
Bridge and Approaches or bridge widening/structure extension	<input type="checkbox"/>
Grade, Drain, Surface and Bridge	<input type="checkbox"/>
Grade, Drain and Surface	<input type="checkbox"/>
Asphalt Overlay Resurfacing	<input type="checkbox"/>
Widen and Resurface existing lanes	<input type="checkbox"/>
Pavement Reconstruction or rehabilitation	<input type="checkbox"/>
Bridge Rehabilitation	<input checked="" type="checkbox"/>
Safety Improvements (Cable Barrier, Guardrail, signage)	<input type="checkbox"/>
Intersection Modifications	<input type="checkbox"/>
Safe Routes to School (Describe)	<input type="checkbox"/>
Enhancements (Describe)	<input type="checkbox"/>
Other (Describe)	<input type="checkbox"/>

**Description of the existing bridge/roadway**

The project area occurs in a rolling, rural area of Canadian County. The existing stretch of SH-66 in the study area is a four lane divided highway with 12ft lanes with no shoulders. The driving lanes are divided by a grass median. Approximately 5,700 vehicles use the roadway each day but this is expected to increase to 9,120 vehicles in the future. The existing SH-66 eastbound and westbound bridges over Shell Creek (NBI#s: 12630 and 12629) is a 32ft x 162ft I-beam concrete span that was constructed in 1951; they are considered functionally obsolete and structurally deficient. The proposed action is needed to improve the safety and longevity of the existing stream crossings.

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

The ODOT proposes to rehabilitate the existing SH-66 bridges over Shell Creek. The work includes full deck replacement as well as repairing the pier substructures, slope walls, and creek bed. The new bridges will consist of two 12ft drive lanes, 4ft inside shoulders, and 10ft outside shoulders. The roadway will remain open during construction operations; traffic will be diverted onto opposing lanes using median crossovers. Earthwork will occur within the medians and immediately adjacent to the bridges; tree clearing is likely for access. Work roads may be needed.

### Project Environmental Study Footprint

Project Location		Environmental Study Footprint	
Section Range & Township	Lat/Long (NAD 83)	Dimensions	Acreage
Secs. 13 and 24 T12N, R6W	W. ext. (-97.8021W, 35.5080N);  E. ext. (-97.7829W, 35.5077N)	1.070 miles long; 240ft wide	28.933

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

Map Unit Name	Percent Slope	Drainage Class	Hydric Rating		Description
			YES	NO	
Da	0-1	W		x	Dale silt loam, rarely flooded
NrB	1-3	W		x	Norge silt loam
NrC	3-5	W		x	Norge silt loam
PkA	0-1	SP-MW		x	Pond Creek silt loam
Pw	0-1	W	x		Port silty clay loam, freq. flooded

### Environmental Study Footprint General Description and Vegetation Present

The project area occurs in a rolling, rural area of Canadian County. The landscape drains into the SH-66 ditches, ephemeral streams, and Shell Creek. The study area is composed of: maintained roadside, medians, and fence lines; graze land and hay fields; forested uplands and riparian areas; as well as ephemeral and perennial streams (See Figures 5a and 5b). The roadside, medians, fence lines, and fields are composed of, in varying combinations, lanceleaf fogfruit (*Phyla lanceolata*), common dayflower (*Commelina communis*), mock cucumber (*Echinocystis* sp.), sneezeweed (*Helenium amarum*), American pokeweed (*Phytolacca americana*), Bermuda grass (*Cynodon dactylon*), Johnsons grass (*Sorghum halepense*), silver beard grass (*Bothriochloa laguroides*), field bindweed (*Convolvulus arvensis*), mat sandbur (*Cenchrus longispinus*), Florida paspalum (*Paspalum floridanum*), prickly lettuce (*Lactuca* sp.), Canadian horseweed (*Conyza canadensis*), foxtail (*Setaria* sp.), sagebrush (*Artemisia* sp.), buffalo grass (*Bouteloua dactyloides*), silverleaf nightshade (*Solanum elaeagnifolium*), Queen Anne's lace (*Daucus carota*), false dandelion (*Nothocalais* sp.), thistle (*Cirsium* sp.), great ragweed (*Ambrosia trifida*), Western soapberry (*Sapindus saponaria*), pecan (*Carya illinoensis*), American elm (*Ulmus americana*), and hackberry (*Celtis occidentalis*). The forested uplands and riparian areas are composed of American pokeweed, Bermuda grass, Johnsons grass, silver beard grass, Florida paspalum, Canadian horseweed, foxtail, buffalo grass, Queen Anne's Lace, great ragweed, Western soapberry, pecan, American elm, hackberry, Canadian wild rye (*Elymus* sp.), Missouri gourd (*Cucurbita foetidissima*), saw greenbrier (*Smilax bona-nox*), poison ivy (*Toxicodendron radicans*), trumpet creeper (*Campsis radicans*),

Virginia creeper (*Parthenocissus quinquefolia*), grape vine (*Vitis* sp.), coralberry (*Symphoricarpos orbiculatus*), Chinaberry (*Melia* sp.), sugarberry (*Celtis laevigata*), hickory (*Carya* sp.), and boxelder (*Acer negundo*). The stream beds and banks are partially composed of Bermuda grass, dayflower, Johnsons grass, Florida paspalum, great ragweed, poison ivy, boxelder, sedge (*Carex* sp.), buttonbush (*Cephalanthus occidentalis*), and black willow (*Salix nigra*).

## WATERS AND WETLANDS EVALUATION

### Data Sources Reviewed (list)

USGS 7.5 minute Quad	NWI Map	USACE Wetland Regional Supplement	Additional Resources Reviewed
Canadian County	USFWS, September, 2009 wet data file	Great Plains Region	Cowardin, 1979;  Climate.ok.gov

### Wetlands and Ponds Summary Table

None in the study area

### 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
4	Unnamed tributaries of ditches, other streams, and Shell Creek	Unmapped, ephemeral	Unlikely	0.084	589
1	Shell Creek	Mapped, perennial-(R3UB H- riverine, upper perennial, unconsolidated bottom, mud and rock bottom, permanently flooded)	Likely	0.316	293

*Streams and other linear aquatic features*

Field Site 1 can best be characterized as an unmapped, ephemeral stream that occupies approximately 0.018 acres (~ 143 linear ft) of the study area and ranges from 6 to 8ft wide. This stream is the digression of the south roadside ditch of SH-66 as it flows west into Shell Creek. It was saturated within a scoured channel with a mud and gravel bed during field investigations (See Image 9). The riparian areas are primarily elm-soapberry forest. The stream is unlikely jurisdictional.

Field Site 2 can best be characterized as a mapped, permanently flooded, upper perennial (R3UBH) stream with a mud and rock bottom that occupies approximately 0.316 acres (~ 293 linear ft) of the study area and ranges from 40 to 58ft wide. This stream, Shell Creek, flows north through the study area. It was flowing within a scoured channel with eroding banks during field investigations (See Images 10-12). The riparian areas are primarily pecan-elm-soapberry forest. The stream is likely jurisdictional.

Field Site 3 can best be characterized as an unmapped, ephemeral stream that occupies approximately 0.028 acres (~ 205 linear ft) of the study area and averages 6ft wide. This stream is the digression of the south roadside ditch of SH-66 as it flows east into Shell Creek. It was saturated within a scoured channel with a mud and gravel bed during field investigations. The riparian areas are primarily elm-soapberry forest. The stream is unlikely jurisdictional.

Field Site 4 can best be characterized as an unmapped, ephemeral stream that occupies approximately 0.004 acres (~ 43 linear ft) of the study area and averages 4ft wide. This stream originates from the south roadside ditch as it flows west into Field Site 5. It was dry within a scoured channel during field investigations. The riparian areas are a grove of elm-pecan-hackberry with a maintained Paspalum understory (See Image 18). The stream is unlikely jurisdictional.

Field Site 5 can best be characterized as an unmapped, ephemeral stream with a mud bed that occupies approximately 0.034 acres (~ 198 linear ft) of the study area and ranges from 4 to 8ft wide. The bed was saturated and partially vegetated with Bermuda grass, dayflower, and smartweed during field investigations. The riparian areas are a mixture of maintained roadside and a grove of elm-pecan-hackberry with a maintained Paspalum understory (See Image 18). The stream flows north towards a railroad ditch system and is unlikely jurisdictional.

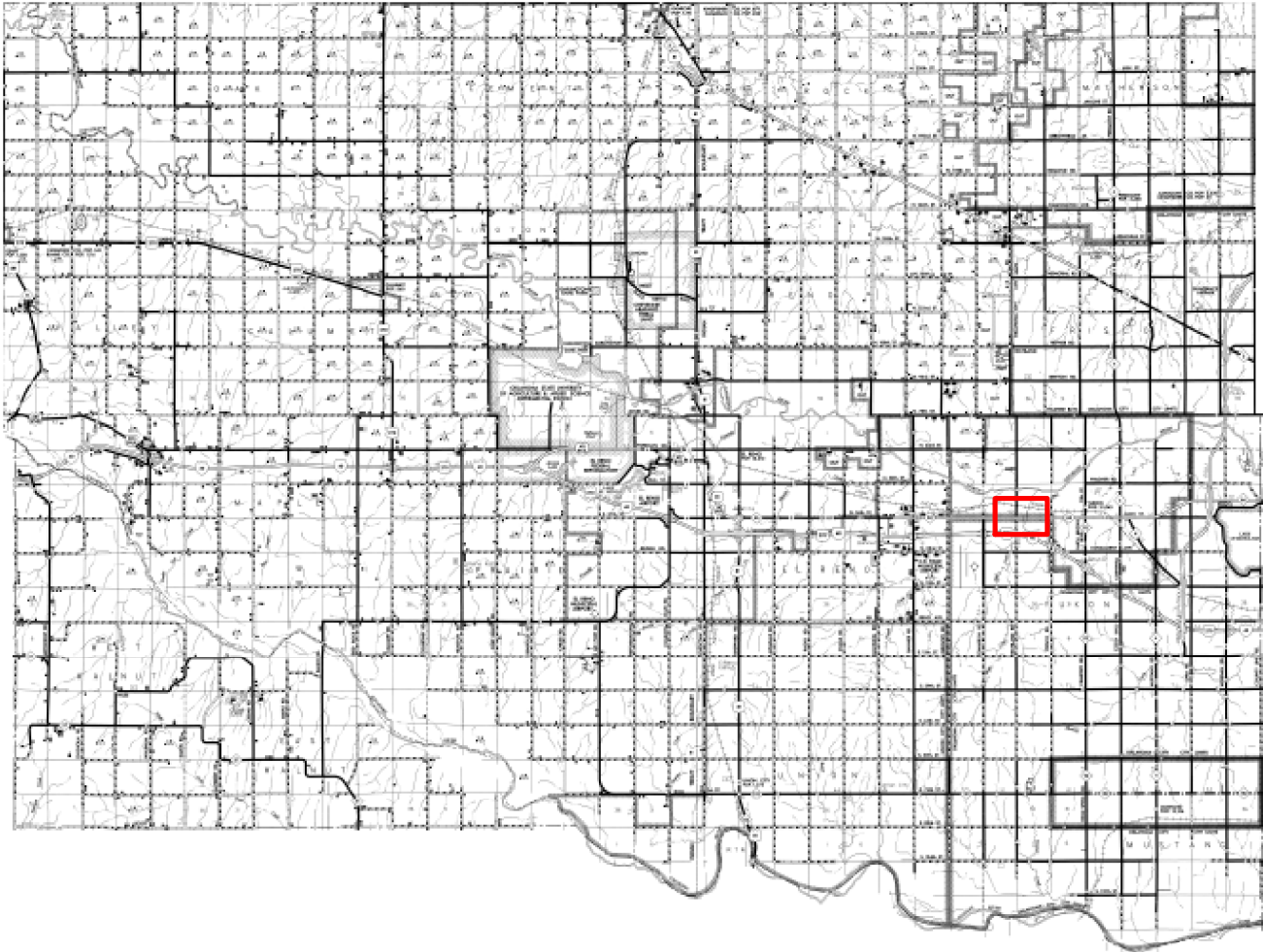


Figure 1. County Wide Section Line Map

 Project Location



Canadian County

J/P 32765(04)

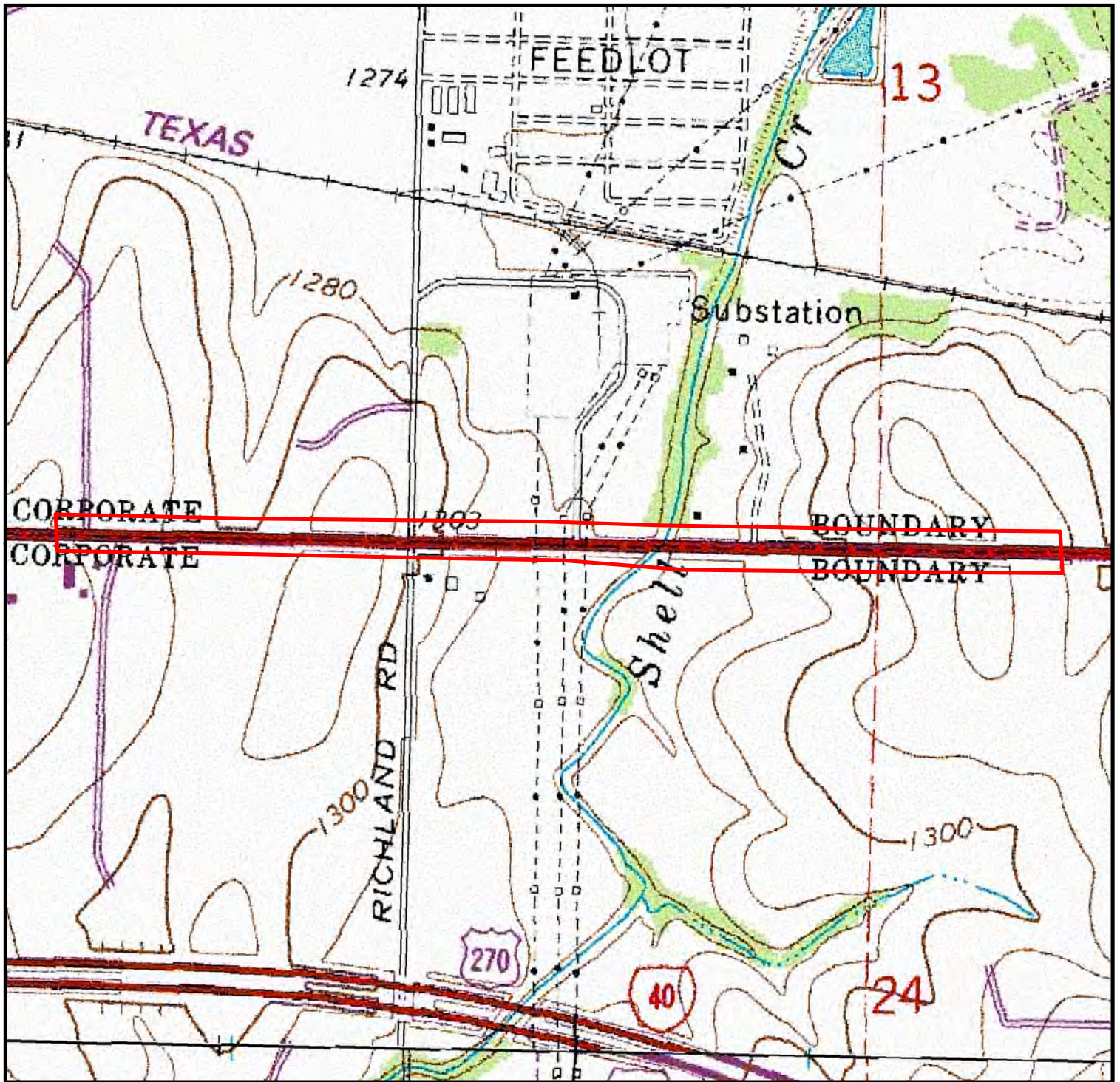



Figure 2. Topographic Map


 Study Area



Canadian County  
J/P 32765(04)

USGS 7.5 minute quadrangle at 1:24,000 scale

0 300 600 1,200  
Feet



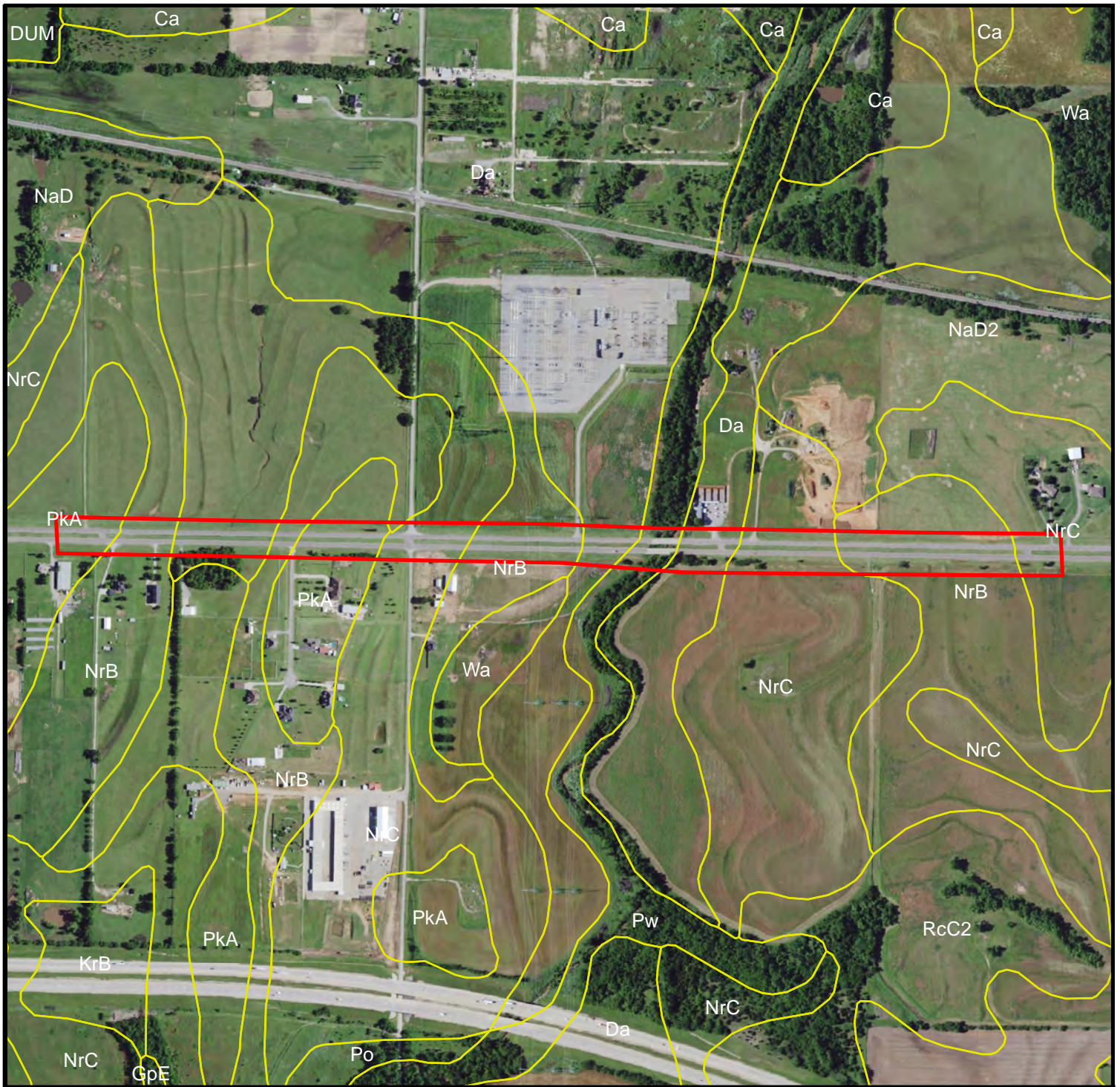


Figure 4. Soil Map

Project Area     Soil Boundaries

**Soil Abbreviations**

- PkA: Pond Creek silt loam, 0-1% slopes
- NrB: Norge silt loam, 1-3% slopes
- NrC: Norge silt loam, 3-5% slopes
- Da: Dale silt loam, 0-1% slopes, rarely flooded
- Pw: Port silty clay loam, 0-1% slopes, freq. flooded



Canadian County  
J/P 32765(04)



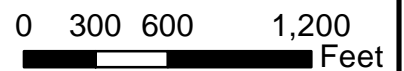
Figure 4. NWI Map

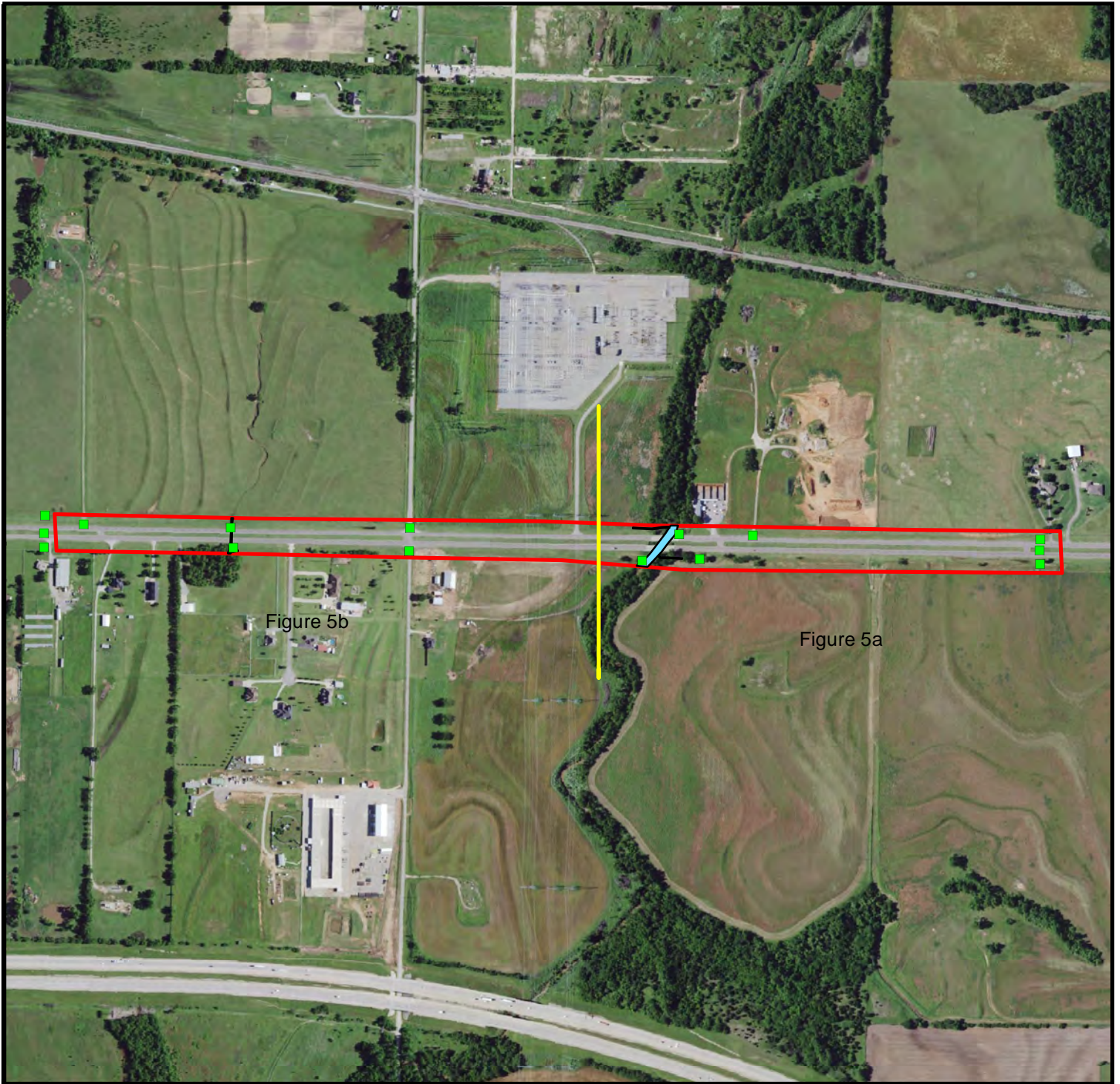
- Project Area
- NWI



Canadian County

J/P 32765(04)





## Site Map Index Sheet

-  Study Area
-  Stream
-  Photo Site



Canadian County

J/P 32765(04)



Figure 5a. Site Map

- Study Area
- Stream
- Photo Site



Canadian County

J/P 32765(04)



Figure 5b. Site Map

-  Study Area
-  Stream
-  Photo Site



Canadian County

J/P 32765(04)

Appendix A: Photo Images for ODOT J/P 32765(04) Bridge Rehabilitation on SH-66 over Shell Creek in Canadian County, Oklahoma



Image 1 (PS 1): looking NE from the north side of SH-66 westbound lanes.



Image 2 (PS 1): looking NW from the north side of SH-66 westbound lanes.



Image 3 (PS 1): looking W from the SH-66 median.



Image 4 (PS 1): looking E from the SH-66 median.

Appendix A: Photo Images for ODOT J/P 32765(04) Bridge Rehabilitation on SH-66 over Shell Creek in Canadian County, Oklahoma



Image 5 (PS 3): looking SE from the southside of the SH-66 eastbound lanes.



Image 6 (PS 3): looking SW from the southside of the SH-66 eastbound lanes.



Image 7 (PS 4): looking NE from the northside of the SH-66 westbound lanes.



Image 8 (PS 4): looking NW from the northside of the SH-66 westbound lanes.

Appendix A: Photo Images for ODOT J/P 32765(04) Bridge Rehabilitation on SH-66 over Shell Creek in Canadian County, Oklahoma



Image 9 (PS 5): looking W (downstream) at an ephemeral stream.



Image 10 (PS 6): looking N (downstream) at Shell Creek.



Image 11 (PS 6): looking S (upstream) at Shell Creek.



Image 12 (PS 7): looking N at Shell Creek.

Appendix A: Photo Images for ODOT J/P 32765(04) Bridge Rehabilitation on SH-66 over Shell Creek in Canadian County, Oklahoma



Image 13 (PS 8): looking NE from the northside of the SH-66 westbound lanes.



Image 14 (PS 8): looking NW from the northside of the SH-66 westbound lanes.



Image 15 (PS 9): looking SW from the southside of the SH-66 eastbound lanes.



Image 16 (PS 9): looking SE from the southside of the SH-66 eastbound lanes.

Appendix A: Photo Images for ODOT J/P 32765(04) Bridge Rehabilitation on SH-66 over Shell Creek in Canadian County, Oklahoma



Image 17 (PS 10): looking S (downstream) at an ephemeral stream.



Image 18 (PS 11): looking SW (upstream) at an ephemeral stream.



Image 19 (PS 12): looking NE from the northside of the SH-66 westbound lanes.



Image 20 (PS 12): looking NW from the northside of the SH-66 westbound lanes.

Appendix A: Photo Images for ODOT J/P 32765(04) Bridge Rehabilitation on SH-66 over Shell Creek in Canadian County, Oklahoma



Image 21 (PS 13): looking NE from the northside of the SH-66 westbound lanes.



Image 22 (PS 13): looking NW from the northside of the SH-66 westbound lanes.



Image 23 (PS 14): looking W from the SH-66 median.



Image 24 (PS 14): looking E from the SH-66 median

Appendix A: Photo Images for ODOT J/P 32765(04) Bridge Rehabilitation on SH-66 over Shell Creek in Canadian County, Oklahoma



Image 25 (PS 15): looking SW from the southside of the SH-66 eastbound lanes.



Image 26 (PS 15): looking SE from the southside of the SH-66 eastbound lanes.

# **HAZARDOUS WASTE STUDIES**

OKLAHOMA DEPARTMENT OF TRANSPORTATION  
INITIAL SITE SCREENING REPORT – HAZARDOUS WASTE

**Prepared By:** David Edwards  
**Report Date:** 11/04/2019

**Project No.:** SBR-209C(073)SB  
**J/P Number:** 32765(04)

**County:** Canadian

---

**1. PROJECT DESCRIPTION:** BRIDGE REHABILITATION: SH-66; WB & EB OVER SHELL CREEK, APPROX. 8.2 MILES EAST OF US-81 JCT.

**2. LAND USE AND CHARACTERISTICS:** Rural land use west of Yukon on SH-66 with primarily agricultural development.

**3. PROJECT METHODOLOGY:**

A. Records Search:

- Electronic database search (vendor: ; report date: )
- Manual database search (LUST, CERCLA, VCP, Landfill), plus:
  - Sanborn Fire Insurance Maps
  - Aerial photos (95,03,06,08,11,16)
  - RCRA CORRACTS
  - UST
  - Oil and Gas Wells
  - Agency files:
  - Google Streetview
  - Survey Report
  - Other:

B. Interviews/Contacts: None conducted.

C. Field Investigation:  Visit (date: )  No Visit

**4. RESULTS OF INVESTIGATION:**

A. Physical Features in Immediate Project Area (USTs, AST, Others): None noted.

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

**6. PLAN NOTES:** None needed.





**7. GENERAL COMMENTS:** No environmental concerns noted that are expected to affect the project.

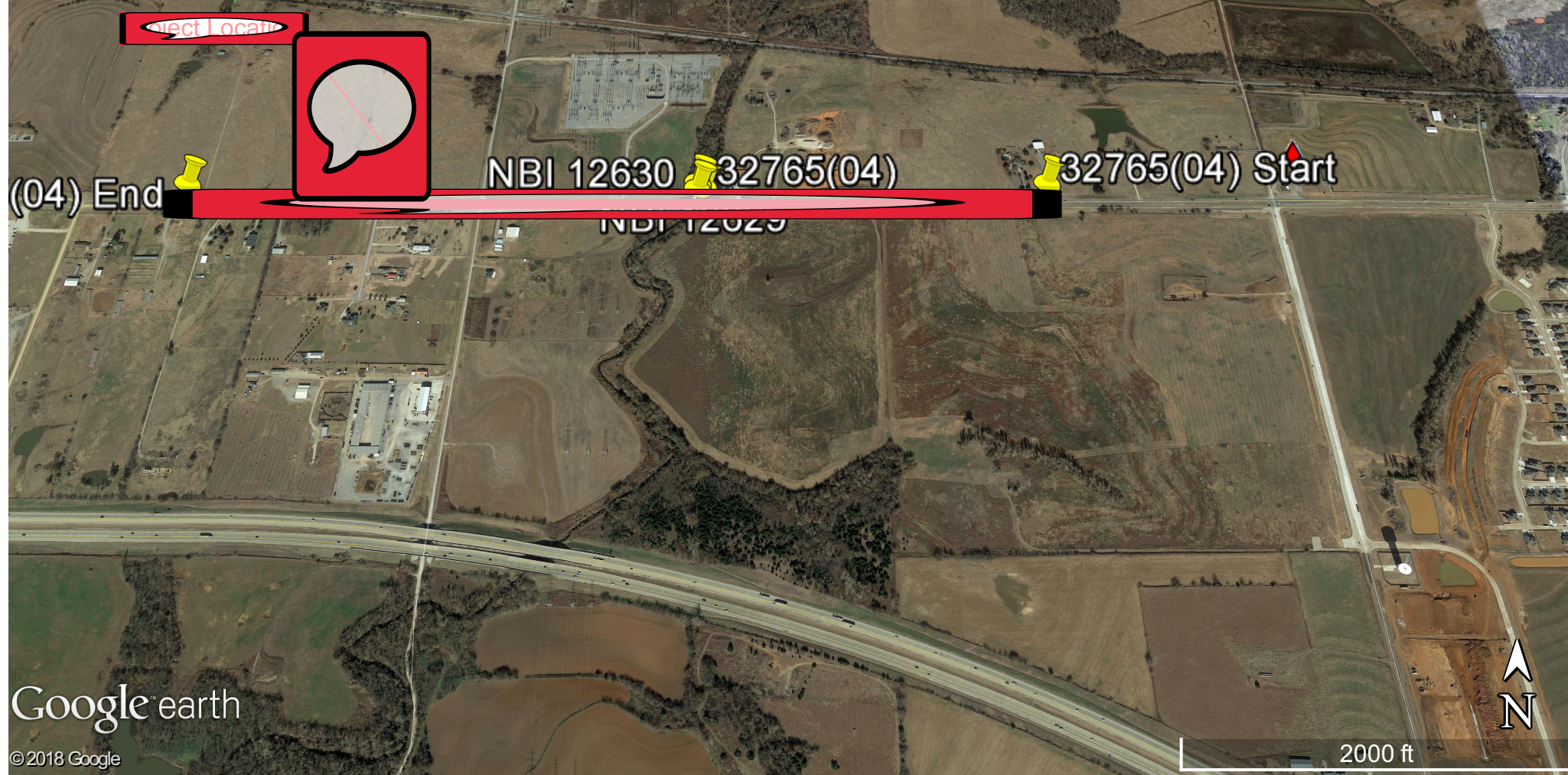
This report is based solely upon the interpretation of the available information and documents reviewed, and when indicated, visual observations of the proposed project and its vicinity. This report is intended for the sole use of ODOT. It should be recognized that this report was not intended to be 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.

**JP#32765(04)**

OCC LUST Database Map

**Legend**

-  32765(04)
-  Mayes County Petroleum Products
-  Yukon Christian Church
-  Yukon Home for Sale

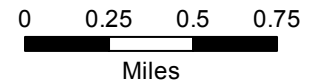


GIS Database

# Oklahoma Department of Environmental Quality

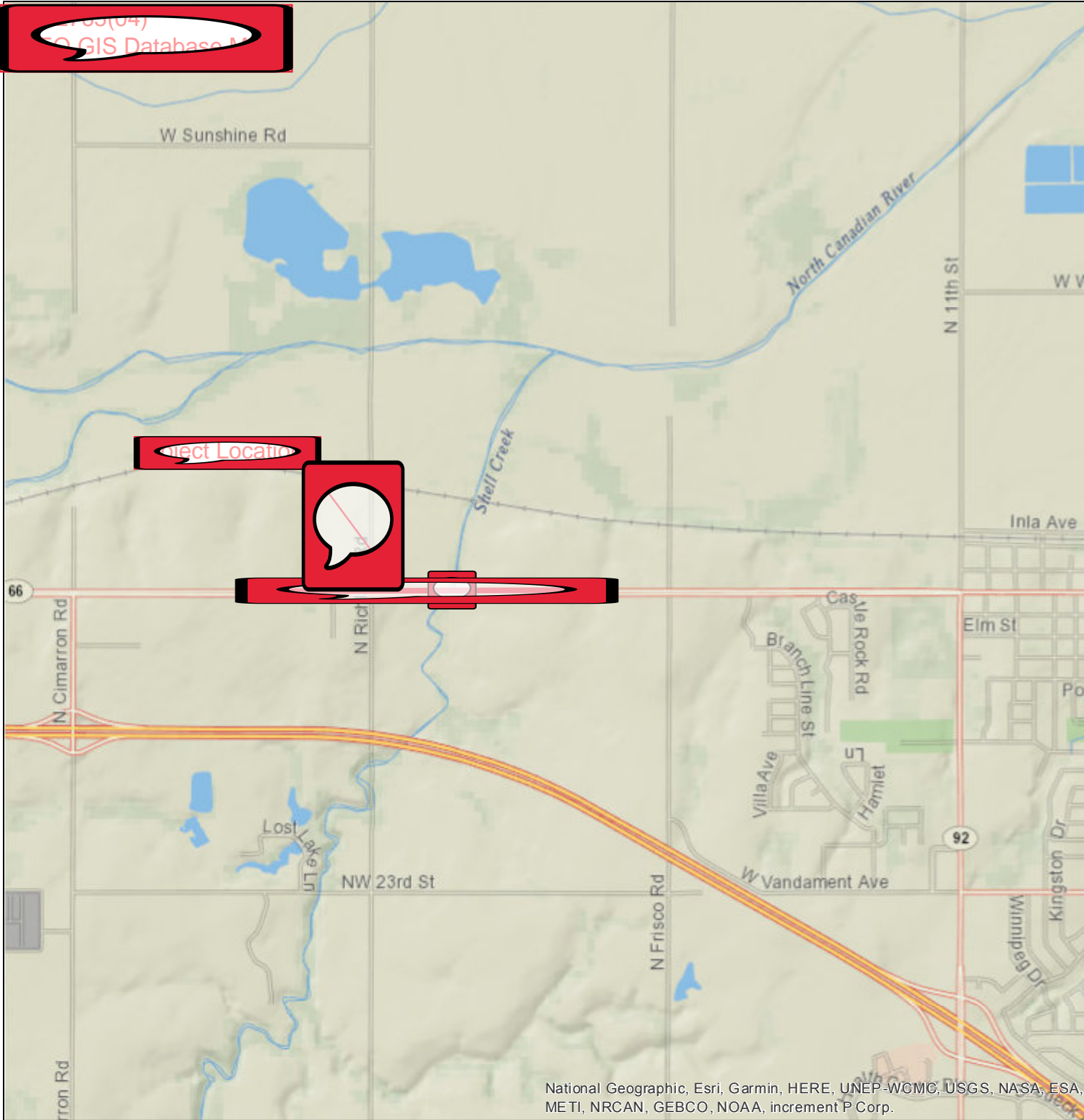
## Legend

- RCRA Corrective Action
- Superfund Sites
- Class I Injection Wells



Date: 11/4/2019

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.



**OTHER**



OKLAHOMA DEPARTMENT OF TRANSPORTATION

PROJECT STATUS SYSTEM

Home > List Projects > [Edit Project](#)

[Environmental](#) [Proposed Bridge](#) [Related Projects](#) [Project Cost](#) [Project Revision](#) [Commitments](#) [Right-of-Way](#) [DOCUMENT VAULT](#) [Local Government](#) [FHWA Project Status Justification](#) [Survey](#)

Edit PROJECT Cancel

Job Piece: 3276504  
 Status Report:  AP Project:  VE Project:  Calculated Status: Asset Preservation Project

Production Targets	Planned Finish	Actual Finish	Status	Cond	Consultant Evaluations
Reconnaissance Data	08/14/2017	08/14/2017	Completed		
Project Initiation	07/12/2018	07/18/2018	Completed		
Design Resource	HNTB Corporation				
EC Solicitation	07/12/2018	07/12/2018			
EC Contract	08/09/2018	07/16/2018	EC No 1991C		
Survey	08/09/2018		N/A		SWO 5385(1)
Hydraulics	08/09/2018		N/A		
Preliminary Field Review	09/20/2018		Behind		
RW & Utility Meeting	09/20/2018		Behind		
Plans Submitted to R/W	01/24/2019		On-Time		
NEPA Document	01/24/2019		On-Time		
R/W Phase					
Legal Entry	01/24/2019		On-Time		
Prepare Traffic Plans	01/24/2019		On-Time		
Final Field Review	03/14/2019	07/09/2019	Completed		
Utility Out	01/24/2019		On-Time		
404 Permit	01/24/2019		On-Time		
Plans Complete	04/10/2019		On-Time		
Ready to Let	04/10/2019		On-Time		

[Edit Resource and Comments](#)

Utility Information

Latest Utility Out Date
-

Project Information

JP No.	Proj. ID	County	Div.	Maint.	HWY	Work Desc
3276504	SBR-209C(073)SB	09 CANADIAN	4	4	SH066	15 BRIDGE REHABILITATION

Project Legislative Districts

Ctrl.	Start	End	Lgth	Cong	Senate	House
006	8.090	8.290	0.200	3	23	060

Project Location

Location
SH-66; WB & EB OVER SHELL CREEK, APPROX. 8.2 MILES EAST OF US-81 JCT.

Project Status

Status	8Year CWP	NHS Sys.	FHWA Oversight	Comm Appr.	Fhwa Auth	Auth FFY	Let Date	FFY	Award Date	RW JP No.	RW Let
Programmed	No	No		10/2016	-		07/2020	2020	NoDate	-	-

STIP & NEPA Information

STIP FY	STIP Page	Pub Date	ODOT Appr.	TIP FY	TIP Page	MPO Appr.	NEPA Type	NEPA Appr	NEPA Re-Eval
-	-	-	-	-	-	-	-	-	//

Project Budget & Plan Resource

Advanced	Federal	State	Other	Total	Design Consultant	NEPA Consultant
\$0	\$0	\$3,449,648	\$0	\$3,449,648	HNTB Corporation	000000000

ODOT/FHWA Resources Assigned

PMD	Field	FHWA	NEPA	Survey	Materials	Roadway	Bridge	Traffic	RW	Rail
Brutsche	January	-		K. King	-	-	Thomas	-	-	-

Comments

no data found

Bridge Information

NBI#	Status	Co	Ctl	Milept	Sd
12629	State Bridge	09	006	08190	
12630	State Bridge	09	006	08190	
1-2					



# OKLAHOMA DEPARTMENT OF TRANSPORTATION PROJECT STATUS SYSTEM

Logout  
Project

Home > List Projects > Edit Project > Edit Environmental Data > **Edit NEPA Document**

**Edit Original NEPA Document**

Job Piece 3276504

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**Initial**

Initiation Report from PMD	<input type="text"/>	<input type="button" value="Calendar"/>
Footprint Review Prior to Start of Studies	<input type="text"/>	<input type="button" value="Calendar"/>
Consultant Notice To Proceed	<input type="text"/>	<input type="button" value="Calendar"/>
Property Owner Notification	<input type="text"/>	<input type="button" value="Calendar"/>
BLM Notification	<input type="text"/>	<input type="button" value="Calendar"/>
BIA Notification	<input type="text"/>	<input type="button" value="Calendar"/>
Consultant CR/Tribal Initiation	<input type="text"/>	<input type="button" value="Calendar"/>

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**Studies**

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CR Studies Recd	11/07/2019	<input type="button" value="Calendar"/>
Biological Studies Requested	07/09/2019	<input type="button" value="Calendar"/>
Biological Studies Due	11/25/2019	<input type="button" value="Calendar"/>
Biological Studies Recd	11/07/2019	<input type="button" value="Calendar"/>
Meeting with 404 Permit Coordinator for Delineation	<input type="text"/>	<input type="button" value="Calendar"/>
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Haz Waste Studies Recd	11/04/2019	<input type="button" value="Calendar"/>
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Noise Studies Recd	<input type="text"/>	<input type="button" value="Calendar"/>
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Relo Studies Recd	<input type="text"/>	<input type="button" value="Calendar"/>

**NEPA Document Preparation**

NEPA On Hold Memo Sent Date	<input type="text"/>	<input type="button" value="Calendar"/>
R/W Submittal Plans Recd	<input type="text"/>	<input type="button" value="Calendar"/>
Draft Document Target Date	<input type="text"/>	<input type="button" value="Calendar"/>
Draft Document Actual Date	<input type="text"/>	<input type="button" value="Calendar"/>

**CE Review**

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Comments To Consultant	<input type="text"/>	<input type="button" value="Calendar"/>
Revised CE from Consultant	<input type="text"/>	<input type="button" value="Calendar"/>
CE to FHWA ( if applicable )	<input type="text"/>	<input type="button" value="Calendar"/>
Date of FHWA / ODOT Approval of CE	<input type="text"/>	<input type="button" value="Calendar"/>
CE Distribution	<input type="text"/>	<input type="button" value="Calendar"/>

**EA Review**

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Draft EA Review by FHWA	<input type="text"/>	<input type="button" value="Calendar"/>
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Revised EA from Consultant	<input type="text"/>	<input type="button" value="Calendar"/>
Draft EA to FHWA	<input type="text"/>	<input type="button" value="Calendar"/>
Draft EA Approval by FHWA	<input type="text"/>	<input type="button" value="Calendar"/>
Final EA from Consultant	<input type="text"/>	<input type="button" value="Calendar"/>
Final EA Reviewed	<input type="text"/>	<input type="button" value="Calendar"/>
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FONSI Distribution	<input type="text"/>	<input type="button" value="Calendar"/>

**NEPA Document Navigation**

- Recon
- Section 4F
- Public Involvement
- Re-Evaluation