

CONFIDENTIAL

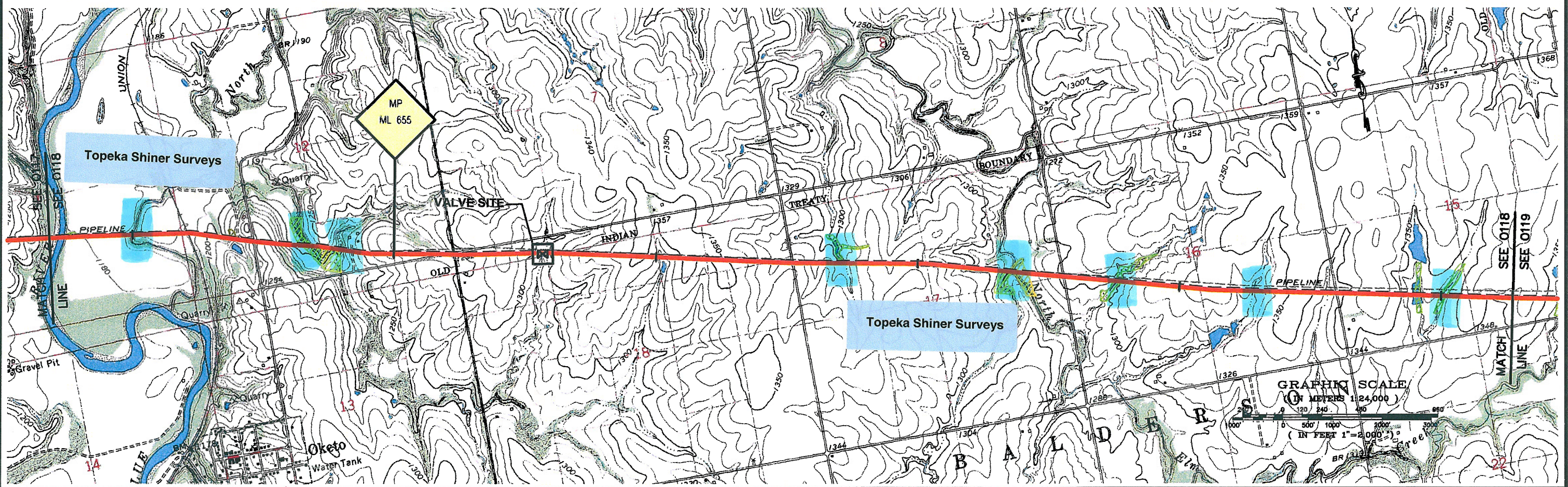
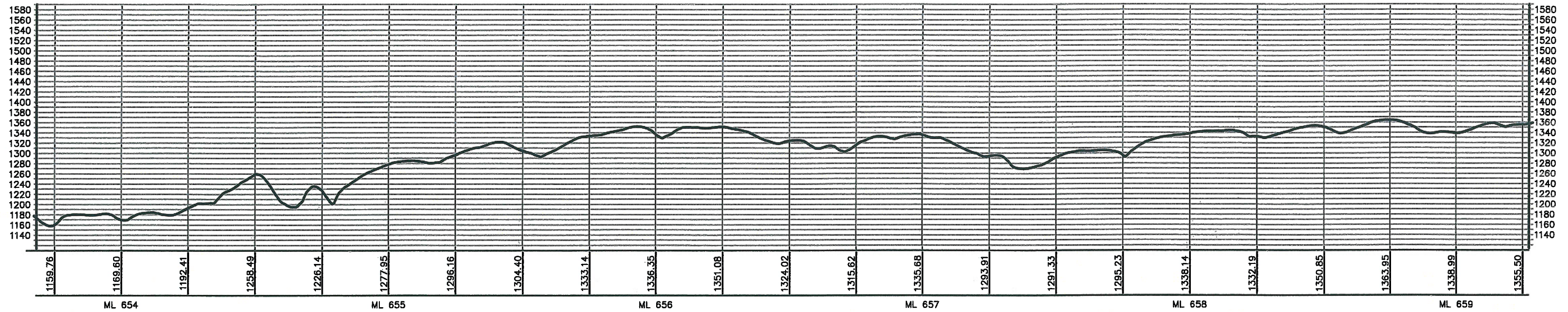
Table 1
Kansas Special Status Species
Habitat by County and Mainline Milepost
Keystone Pipeline Project

Species	Status	Suggested Survey Period	Survey Frequency	Survey Protocol Summary	Survey Counties	Miles (mi) of Associated Habitat Crossed by Keystone Pipeline Project					Mainline Milepost(s)
						Grassland (mi)	Forests and Woodlands (mi)	Forested Wetland/ Riparian (mi)	Nonforested Emergent Wetland (mi) ²	Open Water (mi)	
Bald eagle <i>Haliaeetus leucocephalus</i>	FT; KS-T	Breeding Season: 1-Feb to 15-Aug. Winter roost sites: 1-Nov. to 1-April	Conduct breeding and winter roost surveys if construction occurs during the breeding season/ winter roost season along river corridors only	Potential nesting and winter roosting habitat would be limited to the Big Blue River and Missouri River. Surveys would be needed in these areas if construction occurs during the nesting and winter roosting season. A state permit would be required if potential bald eagle nesting and roosting habitat is disturbed within state designation critical habitat at the Big Blue River and Missouri River crossings.	Doniphan Marshall Butler ¹ Clay ¹ Cowley ¹ Dickinson ¹ Marion ¹					Doniphan: 0.2 (Missouri River) Marshall: 0.1 (Big Blue River) Butler: 0.2 (Whitewater River, East Branch Whitewater River) 0.1 (Whitewater River) 0 (reservoirs) Clay: 0.2 (Republican River) Cowley: 0.0 (Walnut River), 0.3 (Arkansas River) Dickinson: 0.2 (Smoky Hill River), 0.1 (Chapman Creek), 0 (reservoir) Marion: 0.1 (Cottonwood River) Washington: 0.1 (Little Blue River)	Doniphan: 743.4-743.6 (Missouri River) Marshall: 653.6-653.7 (Big Blue River) Butler: 135.0-144.5 (Whitewater River, East Branch Whitewater River) & 153.0-164.0 (Whitewater River), 147.0 (reservoir) 165.7-165.8 (reservoir), 166.3-167.3 (reservoir, reservoir) 168.5 (reservoir), 170.5 (reservoir), 171.2-174.4 (reservoir) Clay: 50.0-56.0 (Republican River/Milford Wildlife Area) Cowley: 180.0-181.3, 183.0-192.5 (Walnut River), 205.0-206.2 (Arkansas River) Dickinson: 74.0-77.0 (Smoky Hill River) 68.0-72.0 (Chapman Creek) 84.8-85.2 (reservoir) Marion: 116.6-117.0 (Cottonwood River) Washington: 0.8-5.5 (Little Blue River)
Arkansas darter <i>Etheostoma cragini</i>	FC; KS-T	TBD	TBD	Cushing Extension	Cowley ¹					Cowley: 0.3 (Arkansas River)	Cowley: 206.1 (Arkansas River), 201.1 (Spring Creek)
Arkansas river shiner <i>Notropis girardi</i>	FT; KS-E	TBD	TBD	Cushing Extension	Cowley ¹					Cowley: 0.3 (Arkansas River), 0.1 (Spring Creek)	Cowley: 206.1 (Arkansas River), 201.1 (Spring Creek)
Arkansas river speckled chub <i>Macrhybopsis tetranema</i>	KS-E	TBD	TBD	Cushing Extension	Cowley ¹					Cowley: 0.3 (Arkansas River), 0.1 (Spring Creek)	Cowley: 206.1 (Arkansas River), 201.1 (Spring Creek)
Topeka shiner <i>Notropis topeka</i>	FE; KS-T / CH	Spawning Period: 15-May to 31-July	Possibly one survey prior to construction (Depending on crossing method and time of year)	A state permit would be required if potential Topeka shiner habitat is disturbed within state designation critical habitat at the North Elm Creek crossings. Salvage and relocate may be an option if construction occurs if the crossing is wet (pooled or running). A permit from KS and the USFWS would be required if salvage and relocation is conducted. Construction would not be permitted during the spawning period (May 15 to July 31) if the crossing is wet.	Marshall Dickinson ¹ Marion ¹					Marshall: 0.3 (North Elm Creek) Dickinson: (Carry Creek, West Branch Lyon Creek) Marion: (Mud Creek)	Marshall: 654.0,654.7, 654.8, 656.7, 657.4, 657.7, 658.4, 659.0, 659.5, 659.9, 661.8, 662.1 (North Elm Creek) Dickinson: 87.0 (Carry Creek), 92.0 (West Branch Lyon Creek) Marion: 114.0 (Mud Creek)
American burying beetle <i>Nicrophorus americanus</i>	FE; KS-E	Active Period: May to Sept.	Preliminary survey to determine if species is located along route. Follow up baiting to remove beetles from area if they are detected along project route.	Surveys require pitfall trapping Qualified entomologist in possession of a Federal Endangered Species Recovery Permit issued by the Service should conduct any surveys. No surveys required along mainline. Possible surveys required along suitable habitat through Cushing line.	Butler ¹ Clay ¹ Cowley ¹ Dickinson ¹ Marion ¹ Washington ¹	Butler: 5.6 Clay: 2.4 Cowley: 4.0 Dickinson: 2.3 Marion: 2.3 Washington: 2.3	Butler: 2.4 Clay: 1.7 Cowley: 1.3 Dickinson: 0.5 Marion: 1.8 Washington: 0.8				Butler: 144.4-151.7, 155.8-178.0 Clay: 39.4-60.8 Cowley: 181.4-193.4, 205.5-209.6 Dickinson: 66.4-66.6, 71.9-76.2, 90.2-90.6 Marion: 103.3-108.3, 111.4-124.4, 129.5-133.3 Washington: 4.5-4.8, 10.5-16.2, 22.6-26.7, 29.9-31.4

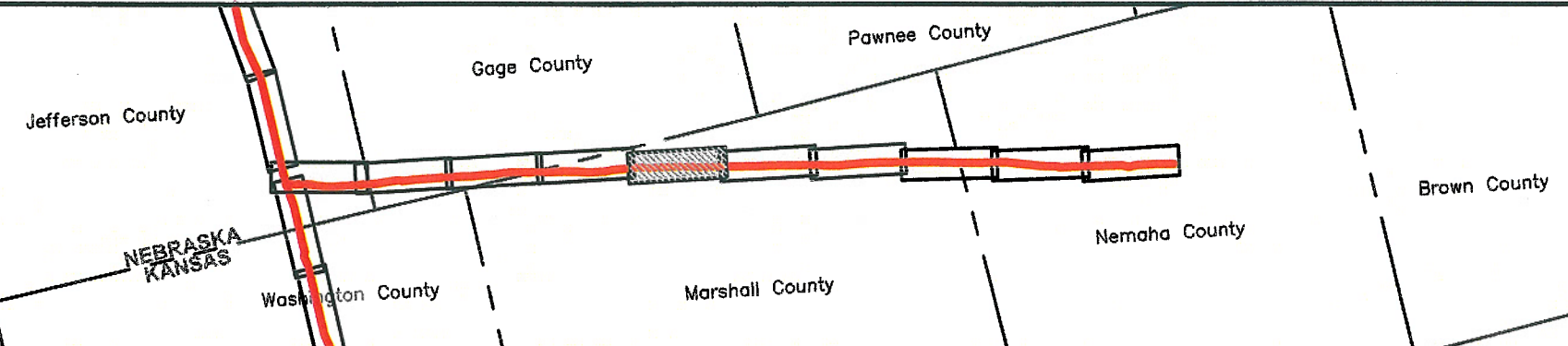
¹ To be determined (TBD); county located along Cushing Extension, survey areas to be determined at a later date

² Data pending; waiting on completion of wetland/waterbody surveys to determine total wetland habitat crossed by project


ELEVATIONS SHOWN IN FEET - VERTICAL = 10x HORIZONTAL SCALE



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PREPARED BY:
TROW ENGINEERING CONSULTANTS, INC.
 1300 Metropolitan Boulevard, Suite 200
 Tallahassee, Florida 32308
 Phone: 1-850-385-5441
 Fax: 1-850-385-5523

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NO.	REVISION	DATE

0 ISSUED FOR DEPARTMENT OF STATE FILING MAR.13.06

DRAWING NUMBER	DRAWN BY	CHECKED BY	APPROVED BY
K-20-P-900-A-0002	AH	BLS	RG

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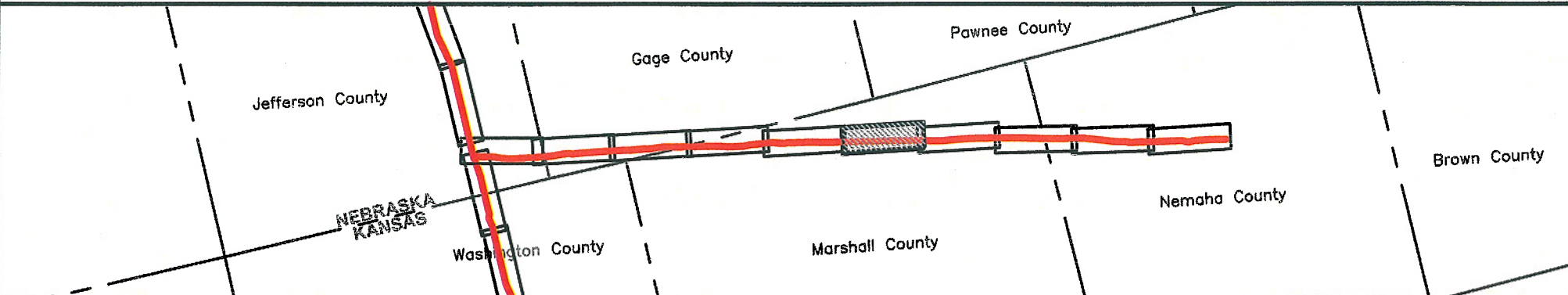
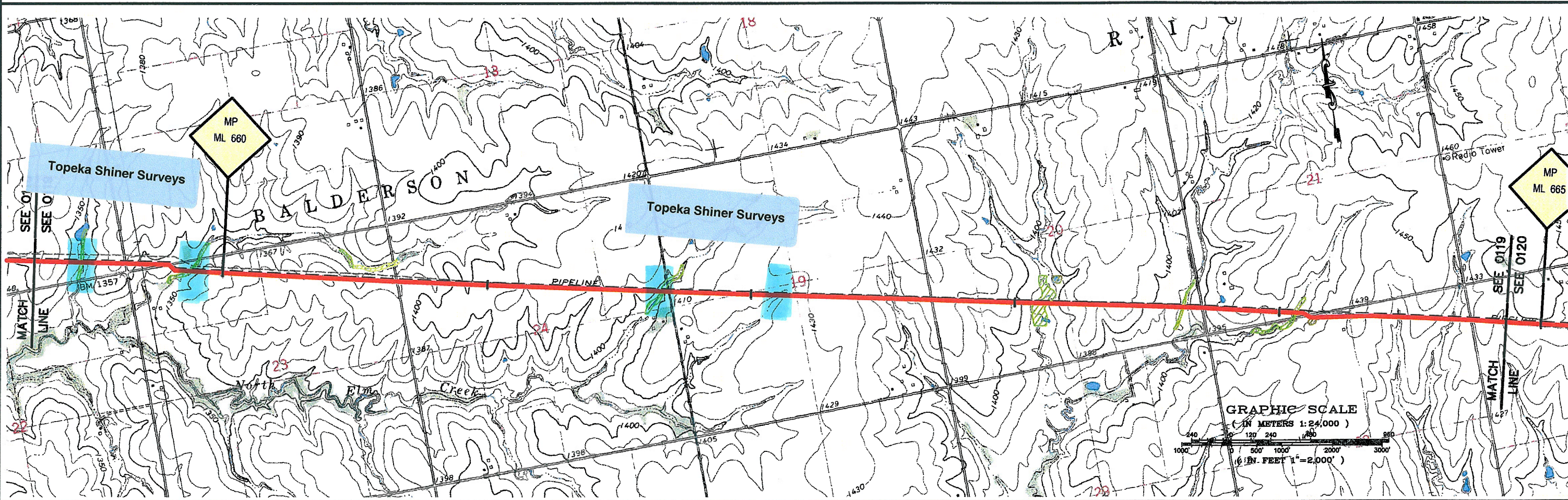
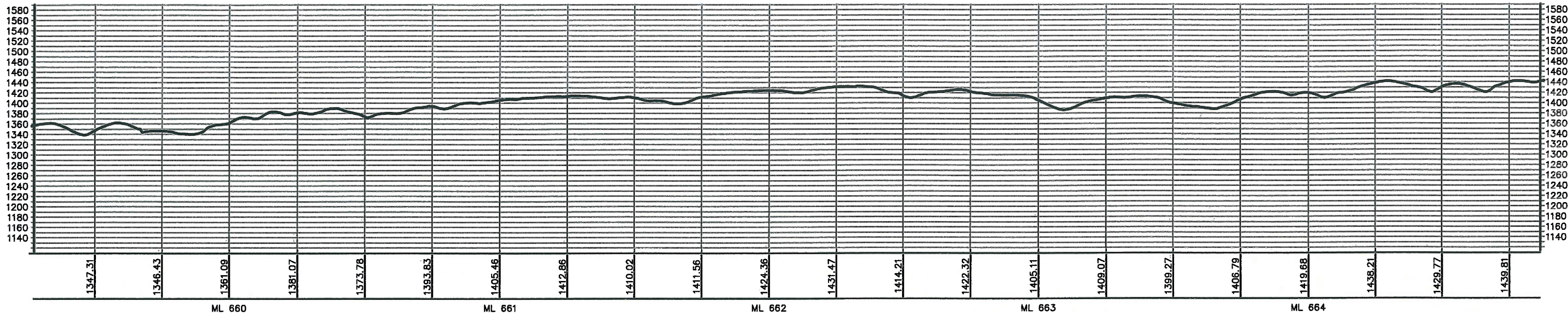
**KEYSTONE PIPELINE PROJECT
 PROPOSED ROUTE BOOK**



MAP PARAMETERS
 PROJECTION: NAD83, UTM: 14N
 SCALE: 1:24,000; 1" = 2,000'

PROJECT: 50388E SHEET: 0118

LAST PLOT DATE:
 Sun, 19 Mar 2006 - 4:32pm

ELEVATIONS SHOWN IN FEET - VERTICAL = 10x HORIZONTAL SCALE



PREPARED BY: TROW ENGINEERING CONSULTANTS, INC. 1300 Metropolitan Boulevard, Suite 200 Tallahassee, Florida 32308 Phone: 1-850-385-5441 Fax: 1-850-385-5523		 Trow	 TransCanada <i>In business to deliver</i>
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PROJECT: 50388E		SHEET: 0119	
ISSUED FOR DEPARTMENT OF STATE FILING MAR.13.06		APPROVED BY: RG	
DRAWING NUMBER: K-20-P-900-A-0003	DRAWN BY: AH	CHECKED BY: BLS	LAST PLOT DATE: Wed, 08 Mar 2006 - 10:32am

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