

## **Appendix E**

### **Waterbody Crossing Tables**

#### **Required Crossing Criteria for Reclamation Facilities**



## **Waterbody Crossing Tables**

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
<b>Montana</b>					
Phillips	2.30	UNNAMED TRIBUTARY TO EAST FORK WHITEWATER CREEK	EPHEMERAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Phillips	9.05	UNNAMED TRIBUTARY TO DUNHAM COULEE	EPHEMERAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Phillips	9.12	DUNHAM COULEE	EPHEMERAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Phillips	11.67	UNNAMED TRIBUTARY TO COTTONWOOD CREEK	EPHEMERAL		
Phillips	11.88	UNNAMED TRIBUTARY TO COTTONWOOD CREEK	EPHEMERAL		
Phillips	12.01	UNNAMED TRIBUTARY TO COTTONWOOD CREEK	EPHEMERAL		
Phillips	13.75	UNNAMED TRIBUTARY TO COTTONWOOD CREEK	INTERMITTENT		
Phillips	13.82	UNNAMED TRIBUTARY TO	INTERMITTENT		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
		COTTONWOOD CREEK			
Phillips	14.02	UNNAMED TRIBUTARY TO COTTONWOOD CREEK	EPHEMERAL		
Phillips	14.64	UNNAMED TRIBUTARY TO COTTONWOOD CREEK	EPHEMERAL		
Phillips	16.44	UNNAMED TRIBUTARY TO COTTONWOOD CREEK	EPHEMERAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Phillips	17.85	UNNAMED TRIBUTARY TO CORRAL COULEE	EPHEMERAL		
Phillips	17.91	UNNAMED TRIBUTARY TO CORRAL COULEE	EPHEMERAL		
Phillips	18.09	UNNAMED TRIBUTARY TO CORRAL COULEE	EPHEMERAL		
Phillips	18.34	UNNAMED TRIBUTARY TO CORRAL COULEE	EPHEMERAL		
Phillips	18.40	UNNAMED TRIBUTARY TO CORRAL COULEE	EPHEMERAL		
Phillips	18.49	UNNAMED TRIBUTARY TO CORRAL COULEE	EPHEMERAL		
Phillips	18.97	UNNAMED TRIBUTARY TO CORRAL COULEE	EPHEMERAL		
Phillips	19.18	UNNAMED TRIBUTARY TO CORRAL COULEE	EPHEMERAL		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Phillips	20.77	CORRAL COULEE	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Phillips	21.47	CORRAL COULEE	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Phillips	21.64	UNNAMED TRIBUTARY TO CORRAL COULEE	EPHEMERAL		
Phillips	22.35	UNNAMED TRIBUTARY TO CORRAL COULEE	EPHEMERAL		
Phillips	22.48	UNNAMED TRIBUTARY TO CORRAL COULEE	EPHEMERAL		
Phillips	22.86	UNNAMED TRIBUTARY TO CORRAL COULEE	MAN-MADE DITCH		
Phillips	23.92	CORRAL COULEE	EPHEMERAL		
Phillips	25.40	FRENCHMAN CREEK	PERENNIAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION; WARM WATER FISHERY	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED
Valley	25.75	UNNAMED WATERBODY	EPHEMERAL		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Valley	27.06	UNNAMED TRIBUTARY TO PANHANDLE COULEE	EPHEMERAL		
Valley	27.16	UNNAMED TRIBUTARY TO PANHANDLE COULEE	EPHEMERAL		
Valley	28.80	UNNAMED TRIBUTARY TO PANHANDLE COULEE	EPHEMERAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Valley	30.45	UNNAMED TRIBUTARY TO JORDAN COULEE	INTERMITTENT		
Valley	32.40	EAST FORK CACHE CREEK	EPHEMERAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Valley	34.70	UNNAMED TRIBUTARY TO PASTURE COULEE	EPHEMERAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Valley	35.02	PASTURE COULEE	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT	

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
				RECREATION	
Valley	35.34	UNNAMED TRIBUTARY TO PASTURE COULEE	EPHEMERAL		
Valley	35.51	UNNAMED TRIBUTARY TO PASTURE COULEE	EPHEMERAL		
Valley	35.54	UNNAMED TRIBUTARY TO PASTURE COULEE	EPHEMERAL		
Valley	35.81	UNNAMED TRIBUTARY TO PASTURE COULEE	EPHEMERAL		
Valley	35.84	UNNAMED TRIBUTARY TO PASTURE COULEE	EPHEMERAL		
Valley	35.95	UNNAMED TRIBUTARY TO PASTURE COULEE	EPHEMERAL		
Valley	36.01	UNNAMED TRIBUTARY TO PASTURE COULEE	EPHEMERAL		
Valley	36.12	JONES COULEE	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Valley	37.97	HAY COULEE	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Valley	38.59	UNNAMED TRIBUTARY TO ROCK CREEK	INTERMITTENT		
Valley	39.06	UNNAMED TRIBUTARY TO ROCK CREEK	INTERMITTENT		
Valley	39.08	UNNAMED TRIBUTARY TO ROCK CREEK	INTERMITTENT		
Valley	39.09	UNNAMED TRIBUTARY TO ROCK CREEK	MAN-MADE DITCH		
Valley	39.16	ROCK CREEK	PERENNIAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Valley	40.52	WILLOW CREEK	PERENNIAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Valley	40.92	UNNAMED TRIBUTARY TO WILLOW CREEK	EPHEMERAL		
Valley	41.06	UNNAMED TRIBUTARY TO WILLOW CREEK	EPHEMERAL		
Valley	41.72	UNNAMED TRIBUTARY TO WILLOW CREEK	EPHEMERAL		
Valley	42.55	UNNAMED TRIBUTARY TO WILLOW CREEK	EPHEMERAL		
Valley	44.24	UNNAMED TRIBUTARY TO LIME CREEK	INTERMITTENT		
Valley	44.58	UNNAMED TRIBUTARY TO LIME CREEK	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER;	

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
				INDUSTRIAL; PRIMARY CONTACT RECREATION	
Valley	45.05	LIME CREEK	EPHEMERAL		
Valley	45.13	LIME CREEK	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Valley	47.95	BLACK COULEE	EPHEMERAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Valley	48.02	UNNAMED TRIBUTARY TO BLACK COULEE	EPHEMERAL		
Valley	48.03	UNNAMED TRIBUTARY TO BLACK COULEE	EPHEMERAL		
Valley	48.26	UNNAMED TRIBUTARY TO BLACK COULEE	EPHEMERAL		
Valley	48.32	UNNAMED TRIBUTARY TO BLACK COULEE	EPHEMERAL		
Valley	48.54	UNNAMED TRIBUTARY TO BLACK COULEE	EPHEMERAL		
Valley	49.90	UNNAMED TRIBUTARY TO BEAR CREEK	EPHEMERAL		
Valley	49.94	UNNAMED TRIBUTARY TO BEAR CREEK	EPHEMERAL		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Valley	50.53	UNNAMED TRIBUTARY TO BEAR CREEK	EPHEMERAL		
Valley	51.30	BRUSH FORK	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Valley	51.41	UNNAMED TRIBUTARY TO BRUSH FORK CREEK	EPHEMERAL		
Valley	51.44	UNNAMED TRIBUTARY TO BRUSH FORK CREEK	EPHEMERAL		
Valley	51.53	UNNAMED TRIBUTARY TO BRUSH FORK CREEK	EPHEMERAL		
Valley	51.61	UNNAMED TRIBUTARY TO BRUSH FORK CREEK	EPHEMERAL		
Valley	52.47	BEAR CREEK	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Valley	52.58	UNNAMED TRIBUTARY TO BEAR CREEK	INTERMITTENT		
Valley	53.49	UNGER COULEE	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Valley	53.64	UNNAMED TRIBUTARY TO UNGER	EPHEMERAL		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
		COULEE			
Valley	53.79	UNNAMED TRIBUTARY TO UNGER COULEE	EPHEMERAL		
Valley	54.14	UNNAMED TRIBUTARY TO UNGER COULEE	INTERMITTENT		
Valley	55.22	UNNAMED TRIBUTARY TO BUGGY CREEK	EPHEMERAL		
Valley	55.46	BUGGY CREEK	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION; WARM WATER FISHERY	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED
Valley	55.67	UNNAMED TRIBUTARY TO BUGGY CREEK	EPHEMERAL		
Valley	56.03	UNNAMED TRIBUTARY TO BUGGY CREEK	EPHEMERAL		
Valley	56.04	UNNAMED TRIBUTARY TO BUGGY CREEK	EPHEMERAL		
Valley	56.07	UNNAMED TRIBUTARY TO BUGGY CREEK	EPHEMERAL		
Valley	56.12	UNNAMED TRIBUTARY TO BUGGY CREEK	EPHEMERAL		
Valley	56.27	UNNAMED TRIBUTARY TO BUGGY CREEK	EPHEMERAL		
Valley	56.41	UNNAMED TRIBUTARY TO BUGGY CREEK	INTERMITTENT		
Valley	56.45	UNNAMED TRIBUTARY TO BUGGY	EPHEMERAL		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
		CREEK			
Valley	56.71	UNNAMED TRIBUTARY TO BUGGY CREEK	INTERMITTENT		
Valley	56.72	UNNAMED TRIBUTARY TO BUGGY CREEK	INTERMITTENT		
Valley	57.15	ALKALI COULEE	EPHEMERAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Valley	57.55	UNNAMED TRIBUTARY TO ALKALI COULEE	EPHEMERAL		
Valley	57.55	UNNAMED TRIBUTARY TO ALKALI COULEE	EPHEMERAL		
Valley	57.70	UNNAMED TRIBUTARY TO ALKALI COULEE	INTERMITTENT		
Valley	57.74	UNNAMED TRIBUTARY TO ALKALI COULEE	INTERMITTENT		
Valley	57.91	UNNAMED TRIBUTARY TO ALKALI COULEE	EPHEMERAL		
Valley	58.04	UNNAMED TRIBUTARY TO ALKALI COULEE	EPHEMERAL		
Valley	59.50	WIRE GRASS COULEE	EPHEMERAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Valley	59.55	UNNAMED TRIBUTARY TO WIRE GRASS COULEE	EPHEMERAL		
Valley	60.02	SPRING CREEK	INTERMITTENT		
Valley	61.87	MOONEY COULEE	EPHEMERAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Valley	62.93	UNNAMED TRIBUTARY TO MOONEY COULEE	EPHEMERAL		
Valley	65.97	UNNAMED TRIBUTARY TO CHERRY CREEK	EPHEMERAL		
Valley	67.20	CHERRY CREEK	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION; WARM WATER FISHERY	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED
Valley	67.25	CHERRY CREEK	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION; WARM WATER FISHERY	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED
Valley	67.41	UNNAMED TRIBUTARY TO CHERRY CREEK	INTERMITTENT		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Valley	68.50	FOSS CREEK	INTERMITTENT		
Valley	68.52	FOSS CREEK	INTERMITTENT		
Valley	68.64	FOSS CREEK	INTERMITTENT		
Valley	69.41	UNNAMED TRIBUTARY TO EAST FORK	EPHEMERAL		
Valley	70.43	SPRING COULEE	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Valley	71.10	EAST FORK CHERRY CREEK	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Valley	73.18	WHATELY COULEE	EPHEMERAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Valley	76.08	LINDEKE COULEE	EPHEMERAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Valley	78.11	ESPEIL COULEE	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Valley	78.34	UNNAMED TRIBUTARY TO ESPEIL COULEE	EPHEMERAL		
Valley	78.45	UNNAMED TRIBUTARY TO ESPEIL COULEE	EPHEMERAL		
Valley	82.95	MILK RIVER	PERENNIAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION; WARM WATER FISHERY	PARTIAL; NOT ASSESSED; NOT SUPPORTING; PARTIAL; THREATENED; NOT ASSESSED
Valley	84.48	UNNAMED TRIBUTARY TO VANDALIA SOUTH CANAL	MAN-MADE DITCH		
Valley	84.59	UNNAMED TRIBUTARY TO VANDALIA SOUTH CANAL	MAN-MADE DITCH		
Valley	85.03	VANDALIA CANAL	MAN-MADE DITCH		
Valley	87.24	UNNAMED TRIBUTARY TO MILK RIVER	EPHEMERAL		
Valley	87.88	UNNAMED DITCH	MAN-MADE DITCH		
Valley	88.09	UNNAMED DITCH	MAN-MADE DITCH		
Valley	88.30	UNNAMED DITCH	MAN-MADE DITCH		
Valley	88.31	UNNAMED DITCH	MAN-MADE DITCH		
Valley	88.64	UNNAMED DITCH	MAN-MADE DITCH		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Valley	88.86	UNNAMED DITCH	MAN-MADE DITCH		
Valley	88.96	UNNAMED DITCH	MAN-MADE DITCH		
Valley	89.08	UNNAMED DITCH	MAN-MADE DITCH		
Valley	89.17	MISSOURI RIVER	PERENNIAL		
McCone	89.26	MISSOURI RIVER	PERENNIAL		
McCone	90.76	UNNAMED TRIBUTARY TO MISSOURI RIVER	EPHEMERAL		
McCone	93.39	UNNAMED TRIBUTARY TO STRUPLE COULEE	INTERMITTENT		
McCone	93.57	UNNAMED TRIBUTARY TO STRUPLE COULEE	INTERMITTENT		
McCone	93.58	UNNAMED TRIBUTARY TO STRUPLE COULEE	INTERMITTENT		
McCone	93.88	UNNAMED TRIBUTARY TO STRUPLE COULEE	PERENNIAL		
McCone	94.03	STRUPLE COULEE	INTERMITTENT		
McCone	94.89	UNNAMED TRIBUTARY TO JORGENSEN COULEE	PERENNIAL		
McCone	95.12	JORGENSEN COULEE	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
McCone	95.60	UNNAMED TRIBUTARY TO JORGENSEN COULEE	EPHEMERAL		
McCone	96.88	UNNAMED TRIBUTARY TO COLMAN COULEE	EPHEMERAL		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
McCone	96.93	UNNAMED TRIBUTARY TO COLMAN COULEE	EPHEMERAL		
McCone	97.26	UNNAMED TRIBUTARY TO COLMAN COULEE	EPHEMERAL		
McCone	97.32	UNNAMED TRIBUTARY TO COLMAN COULEE	EPHEMERAL		
McCone	97.40	UNNAMED TRIBUTARY TO COLMAN COULEE	EPHEMERAL		
McCone	97.49	UNNAMED TRIBUTARY TO COLMAN COULEE	EPHEMERAL		
McCone	97.53	UNNAMED TRIBUTARY TO COLMAN COULEE	EPHEMERAL		
McCone	98.88	UNNAMED TRIBUTARY TO WEST FORK HUNGRY CREEK	EPHEMERAL		
McCone	98.94	UNNAMED TRIBUTARY TO WEST FORK HUNGRY CREEK	EPHEMERAL		
McCone	98.98	UNNAMED TRIBUTARY TO WEST FORK HUNGRY CREEK	EPHEMERAL		
McCone	99.40	UNNAMED TRIBUTARY TO WEST FORK HUNGRY CREEK	EPHEMERAL		
McCone	99.85	UNNAMED TRIBUTARY TO BEAVER COULEE	EPHEMERAL		
McCone	100.56	UNNAMED WATERBODY	EPHEMERAL		
McCone	100.88	SCOTSMAN COULEE	INTERMITTENT		
McCone	101.01	UNNAMED TRIBUTARY TO SCOTSMAN COULEE	EPHEMERAL		
McCone	101.65	UNNAMED TRIBUTARY TO CHEER CREEK	EPHEMERAL		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
McCone	101.69	UNNAMED TRIBUTARY TO CHEER CREEK	EPHEMERAL		
McCone	102.27	UNNAMED TRIBUTARY TO BEAR CREEK	INTERMITTENT		
McCone	102.73	UNNAMED TRIBUTARY TO BEAR CREEK	EPHEMERAL		
McCone	102.78	UNNAMED TRIBUTARY TO BEAR CREEK	EPHEMERAL		
McCone	103.18	UNNAMED TRIBUTARY TO BEAR CREEK	EPHEMERAL		
McCone	105.61	BEAR CREEK	EPHEMERAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
McCone	105.62	BEAR CREEK	EPHEMERAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
McCone	106.94	UNNAMED TRIBUTARY TO NORTH PRONG SHADE CREEK	EPHEMERAL		
McCone	107.44	UNNAMED TRIBUTARY TO NORTH PRONG SHADE CREEK	EPHEMERAL		
McCone	107.63	UNNAMED TRIBUTARY TO NORTH PRONG SHADE CREEK	EPHEMERAL		
McCone	107.68	UNNAMED TRIBUTARY TO NORTH PRONG SHADE CREEK	EPHEMERAL		
McCone	107.78	UNNAMED TRIBUTARY TO NORTH PRONG SHADE CREEK	EPHEMERAL		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
McCone	107.79	UNNAMED TRIBUTARY TO NORTH PRONG SHADE CREEK	EPHEMERAL		
McCone	108.15	UNNAMED TRIBUTARY TO NORTH PRONG SHADE CREEK	EPHEMERAL		
McCone	108.58	NORTH PRONG SHADE CREEK	EPHEMERAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
McCone	110.72	SHADE CREEK	INTERMITTENT		
McCone	110.74	SHADE CREEK	INTERMITTENT		
McCone	110.77	SHADE CREEK	INTERMITTENT		
McCone	110.80	UNNAMED TRIBUTARY TO SHADE CREEK	EPHEMERAL		
McCone	111.71	UNNAMED TRIBUTARY TO SHADE CREEK	EPHEMERAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
McCone	111.73	UNNAMED TRIBUTARY TO SHADE CREEK	EPHEMERAL		
McCone	111.92	UNNAMED TRIBUTARY TO SHADE CREEK	EPHEMERAL		
McCone	112.14	UNNAMED TRIBUTARY TO SHADE CREEK	EPHEMERAL		
McCone	112.41	UNNAMED TRIBUTARY TO SHADE	EPHEMERAL		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
		CREEK			
McCone	112.44	UNNAMED TRIBUTARY TO SHADE CREEK	EPHEMERAL		
McCone	114.06	UNNAMED TRIBUTARY TO SOUTH FORK SHADE CREEK	EPHEMERAL		
McCone	114.55	SOUTH FORK SHADE CREEK	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
McCone	115.81	UNNAMED TRIBUTARY TO SOUTH FORK SHADE CREEK	INTERMITTENT		
McCone	115.90	UNNAMED TRIBUTARY TO SOUTH FORK SHADE CREEK	INTERMITTENT		
McCone	116.25	UNNAMED TRIBUTARY TO SOUTH FORK SHADE CREEK	EPHEMERAL		
McCone	116.41	UNNAMED TRIBUTARY TO SOUTH FORK SHADE CREEK	EPHEMERAL		
McCone	117.17	UNNAMED TRIBUTARY TO SOUTH FORK SHADE CREEK	EPHEMERAL		
McCone	117.60	UNNAMED TRIBUTARY TO FLYING V CREEK	EPHEMERAL		
McCone	117.63	UNNAMED TRIBUTARY TO FLYING V CREEK	EPHEMERAL		
McCone	117.91	UNNAMED TRIBUTARY TO FLYING V CREEK	EPHEMERAL		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
McCone	118.65	FLYING V CREEK	EPHEMERAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
McCone	118.91	FLYING V CREEK	INTERMITTENT		
McCone	119.46	UNNAMED TRIBUTARY TO FLYING V CREEK	EPHEMERAL		
McCone	119.58	UNNAMED TRIBUTARY TO FLYING V CREEK	EPHEMERAL		
McCone	120.28	UNNAMED TRIBUTARY TO FLYING V CREEK	EPHEMERAL		
McCone	120.44	UNNAMED TRIBUTARY TO FLYING V CREEK	EPHEMERAL		
McCone	120.56	UNNAMED TRIBUTARY TO FLYING V CREEK	EPHEMERAL		
McCone	121.11	UNNAMED TRIBUTARY TO FIGURE 8 CREEK	EPHEMERAL		
McCone	121.12	UNNAMED TRIBUTARY TO FIGURE 8 CREEK	EPHEMERAL		
McCone	122.68	FIGURE EIGHT CREEK	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
McCone	123.41	MIDDLE FORK PRAIRIE ELK CREEK	EPHEMERAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
McCone	123.47	MIDDLE FORK PRAIRIE ELK CREEK	EPHEMERAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
McCone	124.89	UNNAMED TRIBUTARY TO EAST FORK PRAIRIE ELK CREEK	EPHEMERAL		
McCone	125.00	UNNAMED TRIBUTARY TO EAST FORK PRAIRIE ELK CREEK	EPHEMERAL		
McCone	125.97	UNNAMED TRIBUTARY TO EAST FORK PRAIRIE ELK CREEK	EPHEMERAL		
McCone	126.26	UNNAMED TRIBUTARY TO EAST FORK PRAIRIE ELK CREEK	EPHEMERAL		
McCone	126.51	UNNAMED TRIBUTARY TO EAST FORK PRAIRIE ELK CREEK	INTERMITTENT		
McCone	127.07	UNNAMED TRIBUTARY TO EAST FORK PRAIRIE ELK CREEK	EPHEMERAL		
McCone	127.44	UNNAMED TRIBUTARY TO EAST FORK PRAIRIE ELK CREEK	EPHEMERAL		
McCone	127.99	EAST FORK PRAIRIE ELK CREEK	PERENNIAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER;	

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
				INDUSTRIAL; PRIMARY CONTACT RECREATION	
McCone	128.63	UNNAMED TRIBUTARY TO EAST FORK PRAIRIE ELK CREEK	EPHEMERAL		
McCone	128.73	UNNAMED TRIBUTARY TO EAST FORK PRAIRIE ELK CREEK	EPHEMERAL		
McCone	134.78	UNNAMED TRIBUTARY TO LOST CREEK	EPHEMERAL		
McCone	136.60	UNNAMED TRIBUTARY TO LOST CREEK	EPHEMERAL		
McCone	138.65	UNNAMED TRIBUTARY TO LOST CREEK	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
McCone	139.19	UNNAMED TRIBUTARY TO LOST CREEK	INTERMITTENT		
McCone	139.75	UNNAMED TRIBUTARY TO LOST CREEK	EPHEMERAL		
McCone	145.14	LONE TREE CREEK	EPHEMERAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
McCone	146.59	LONE TREE CREEK	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT	

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
				RECREATION	
McCone	146.97	REDWATER RIVER	PERENNIAL	AQUATIC LIFE; PRIMARY CONTACT RECREATION; WARM WATER FISHERY	FULLY SUPPORTING; FULLY SUPPORTING; FULLY SUPPORTING
McCone	148.37	BUFFALO SPRINGS CREEK	INTERMITTENT		
McCone	149.65	UNNAMED TRIBUTARY TO BUFFALO SPRINGS CREEK	EPHEMERAL		
McCone	149.78	UNNAMED TRIBUTARY TO BUFFALO SPRINGS CREEK	EPHEMERAL		
McCone	150.27	UNNAMED TRIBUTARY TO BUFFALO SPRINGS CREEK	EPHEMERAL		
McCone	150.92	UNNAMED TRIBUTARY TO BUFFALO SPRINGS CREEK	EPHEMERAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
McCone	152.18	WEST FORK BUFFALO SPRINGS CREEK	EPHEMERAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
McCone	153.24	UNNAMED TRIBUTARY TO BUFFALO SPRINGS CREEK	INTERMITTENT		
McCone	153.55	BUFFALO SPRINGS CREEK	INTERMITTENT		
McCone	153.69	BUFFALO SPRINGS CREEK	PERENNIAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Dawson	156.91	UNNAMED TRIBUTARY TO COTTONWOOD CREEK	EPHEMERAL		
Dawson	157.05	COTTONWOOD CREEK	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Dawson	159.35	UNNAMED TRIBUTARY TO BERRY CREEK	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Dawson	159.63	BERRY CREEK	PERENNIAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Dawson	160.07	UNNAMED TRIBUTARY TO BERRY CREEK	INTERMITTENT		
Dawson	163.55	HAY CREEK	INTERMITTENT		
Dawson	164.31	UNNAMED TRIBUTARY TO HAY CREEK	INTERMITTENT		
Dawson	164.71	UNNAMED TRIBUTARY TO HAY CREEK	EPHEMERAL		
Dawson	164.89	UNNAMED TRIBUTARY TO HAY CREEK	EPHEMERAL		
Dawson	166.59	UPPER SEVEN MILE CREEK	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Dawson	166.77	UNNAMED TRIBUTARY TO UPPER SEVEN MILE CREEK	EPHEMERAL		
Dawson	171.56	UNNAMED TRIBUTARY TO CLEAR CREEK	EPHEMERAL		
Dawson	171.78	UNNAMED TRIBUTARY TO CLEAR CREEK	EPHEMERAL		
Dawson	175.60	CLEAR CREEK	PERENNIAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Dawson	176.77	UNNAMED TRIBUTARY TO CLEAR CREEK	EPHEMERAL		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Dawson	177.69	UNNAMED TRIBUTARY TO CLEAR CREEK	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Dawson	178.43	UNNAMED WATERBODY	MAN-MADE WATERBODY		
Dawson	178.84	UNNAMED TRIBUTARY TO CLEAR CREEK	EPHEMERAL		
Dawson	180.13	UNNAMED TRIBUTARY TO CLEAR CREEK	EPHEMERAL		
Dawson	180.68	UNNAMED TRIBUTARY TO CLEAR CREEK	EPHEMERAL		
Dawson	181.23	UNNAMED TRIBUTARY TO CLEAR CREEK	INTERMITTENT		
Dawson	188.45	CRACKER BOX CREEK	EPHEMERAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Dawson	193.10	UNNAMED TRIBUTARY TO YELLOWSTONE RIVER	EPHEMERAL		
Dawson	194.35	MAIN CANAL	MAN-MADE DITCH		
Dawson	195.49	UNNAMED TRIBUTARY TO YELLOWSTONE RIVER	MAN-MADE DITCH		
Dawson	196.06	SIDE CHANNEL OF YELLOWSTONE RIVER	PERENNIAL		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Dawson	196.36	YELLOWSTONE RIVER	PERENNIAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION; WARM WATER FISHERY	FULLY SUPPORTING; NOT ASSESSED; NOT ASSESSED; FULLY SUPPORTING; NOT ASSESSED; PARTIAL
Dawson	196.68	UNNAMED TRIBUTARY TO YELLOWSTONE RIVER	INTERMITTENT		
Prairie	198.18	UNNAMED TRIBUTARY TO YELLOWSTONE RIVER	INTERMITTENT		
Prairie	198.50	UNNAMED TRIBUTARY TO YELLOWSTONE RIVER	INTERMITTENT		
Prairie	198.62	UNNAMED TRIBUTARY TO YELLOWSTONE RIVER	EPHEMERAL		
Prairie	198.68	UNNAMED TRIBUTARY TO YELLOWSTONE RIVER	EPHEMERAL		
Prairie	200.13	UNNAMED TRIBUTARY TO SPRING CREEK	INTERMITTENT		
Prairie	200.72	UNNAMED TRIBUTARY TO SPRING CREEK	EPHEMERAL		
Prairie	200.79	UNNAMED TRIBUTARY TO SPRING CREEK	EPHEMERAL		
Prairie	201.89	SPRING CREEK	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Prairie	202.60	UNNAMED TRIBUTARY TO SPRING CREEK	INTERMITTENT		
Prairie	205.50	UNNAMED TRIBUTARY TO ASH CREEK	EPHEMERAL		
Prairie	207.53	UNNAMED TRIBUTARY TO WEST FORK HAY CREEK	EPHEMERAL		
Prairie	208.24	WEST FORK HAY CREEK	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Prairie	209.26	HAY CREEK	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Prairie	209.30	UNNAMED TRIBUTARY TO HAY CREEK	INTERMITTENT		
Prairie	211.80	UNNAMED TRIBUTARY TO HAY CREEK	EPHEMERAL		
Prairie	212.28	UNNAMED TRIBUTARY TO CABIN CREEK	EPHEMERAL		
Prairie	212.32	UNNAMED TRIBUTARY TO CABIN CREEK	EPHEMERAL		
Prairie	212.34	UNNAMED TRIBUTARY TO CABIN CREEK	EPHEMERAL		
Prairie	212.45	UNNAMED TRIBUTARY TO CABIN CREEK	EPHEMERAL		
Prairie	212.48	UNNAMED TRIBUTARY TO CABIN	EPHEMERAL		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
		CREEK			
Prairie	214.01	UNNAMED TRIBUTARY TO CABIN CREEK	EPHEMERAL		
Prairie	214.71	UNNAMED TRIBUTARY TO CABIN CREEK	EPHEMERAL		
Prairie	215.18	UNNAMED TRIBUTARY TO CABIN CREEK	EPHEMERAL		
Prairie	217.09	UNNAMED TRIBUTARY TO CABIN CREEK	INTERMITTENT		
Prairie	217.22	UNNAMED TRIBUTARY TO CABIN CREEK	INTERMITTENT		
Prairie	217.64	UNNAMED TRIBUTARY TO CABIN CREEK	EPHEMERAL		
Fallon	222.30	UNNAMED TRIBUTARY TO PENNEL CREEK	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Fallon	226.83	LAWRENCE CREEK	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Fallon	227.12	DRY FORK CREEK	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY	

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
				CONTACT RECREATION	
Fallon	228.46	UNNAMED TRIBUTARY TO DRY FORK CREEK	EPHEMERAL		
Fallon	228.82	UNNAMED TRIBUTARY TO DRY FORK CREEK	EPHEMERAL		
Fallon	231.99	UNNAMED TRIBUTARY TO PENNEL CREEK	INTERMITTENT		
Fallon	232.93	UNNAMED TRIBUTARY TO PENNEL CREEK	EPHEMERAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Fallon	234.13	UNNAMED TRIBUTARY TO PENNEL CREEK	INTERMITTENT		
Fallon	234.70	PENNEL CREEK	PERENNIAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Fallon	234.76	UNNAMED TRIBUTARY TO PENNEL CREEK	EPHEMERAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Fallon	234.92	UNNAMED TRIBUTARY TO PENNEL CREEK	EPHEMERAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Fallon	235.82	UNNAMED TRIBUTARY TO PENNEL CREEK	INTERMITTENT		
Fallon	236.02	UNNAMED TRIBUTARY TO PENNEL CREEK	PERENNIAL		
Fallon	238.49	UNNAMED TRIBUTARY TO PENNEL CREEK	EPHEMERAL		
Fallon	241.03	UNNAMED TRIBUTARY TO SANDSTONE CREEK	INTERMITTENT		
Fallon	241.26	UNNAMED TRIBUTARY TO SANDSTONE CREEK	INTERMITTENT		
Fallon	241.44	UNNAMED TRIBUTARY TO SANDSTONE CREEK	INTERMITTENT		
Fallon	242.36	UNNAMED TRIBUTARY TO SANDSTONE CREEK	INTERMITTENT		
Fallon	242.59	UNNAMED TRIBUTARY TO SANDSTONE CREEK	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Fallon	244.58	SANDSTONE CREEK	INTERMITTENT	AQUATIC LIFE; PRIMARY CONTACT RECREATION; WARM	FULLY SUPPORTING; FULLY

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
				WATER FISHERY	SUPPORTING; FULLY SUPPORTING
Fallon	246.45	UNNAMED TRIBUTARY TO RED BUTTE CREEK	EPHEMERAL		
Fallon	246.51	RED BUTTE CREEK	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Fallon	246.65	UNNAMED TRIBUTARY TO RED BUTTE CREEK	EPHEMERAL		
Fallon	249.00	UNNAMED TRIBUTARY TO RED BUTTE CREEK	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Fallon	249.74	UNNAMED TRIBUTARY TO RED BUTTE CREEK	EPHEMERAL		
Fallon	250.20	RED BUTTE CREEK	INTERMITTENT		
Fallon	250.22	RED BUTTE CREEK	INTERMITTENT		
Fallon	250.27	RED BUTTE CREEK	INTERMITTENT		
Fallon	250.90	RED BUTTE CREEK	INTERMITTENT		
Fallon	251.11	RED BUTTE CREEK	INTERMITTENT		
Fallon	251.12	RED BUTTE CREEK	INTERMITTENT		
Fallon	251.13	RED BUTTE CREEK	INTERMITTENT		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

<b>County</b>	<b>Approximate Milepost</b>	<b>Waterbody Name</b>	<b>Waterbody Type</b>	<b>State Water Quality Classification</b>	<b>Supports Use Designation</b>
Fallon	251.20	RED BUTTE CREEK	INTERMITTENT		
Fallon	251.28	RED BUTTE CREEK	INTERMITTENT		
Fallon	251.45	UNNAMED TRIBUTARY TO RED BUTTE CREEK	INTERMITTENT		
Fallon	251.91	UNNAMED TRIBUTARY TO RED BUTTE CREEK	INTERMITTENT		
Fallon	252.45	UNNAMED TRIBUTARY TO RED BUTTE CREEK	INTERMITTENT		
Fallon	253.79	UNNAMED TRIBUTARY TO LITTLE BEAVER CREEK	EPHEMERAL		
Fallon	253.89	UNNAMED TRIBUTARY TO LITTLE BEAVER CREEK	EPHEMERAL		
Fallon	254.31	UNNAMED TRIBUTARY TO LITTLE BEAVER CREEK	EPHEMERAL		
Fallon	254.39	UNNAMED TRIBUTARY TO LITTLE BEAVER CREEK	EPHEMERAL		
Fallon	254.79	UNNAMED TRIBUTARY TO LITTLE BEAVER CREEK	EPHEMERAL		
Fallon	255.68	UNNAMED TRIBUTARY TO LITTLE BEAVER CREEK	INTERMITTENT		
Fallon	257.76	UNNAMED TRIBUTARY TO HIDDEN WATER CREEK	EPHEMERAL		
Fallon	258.64	HIDDEN WATER CREEK	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Fallon	259.28	UNNAMED TRIBUTARY TO HIDDEN WATER CREEK	INTERMITTENT		
Fallon	259.31	UNNAMED TRIBUTARY TO HIDDEN WATER CREEK	INTERMITTENT		
Fallon	262.68	LITTLE BEAVER CREEK	PERENNIAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Fallon	264.69	UNNAMED TRIBUTARY TO LITTLE BEAVER CREEK	EPHEMERAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Fallon	267.42	UNNAMED TRIBUTARY TO MUD CREEK	EPHEMERAL		
Fallon	267.69	UNNAMED TRIBUTARY TO MUD CREEK	INTERMITTENT		
Fallon	268.07	UNNAMED TRIBUTARY TO MUD CREEK	INTERMITTENT		
Fallon	270.46	UNNAMED TRIBUTARY TO SODA CREEK	EPHEMERAL		
Fallon	270.71	UNNAMED TRIBUTARY TO SODA CREEK	EPHEMERAL		
Fallon	271.20	UNNAMED TRIBUTARY TO SODA CREEK	EPHEMERAL		
Fallon	272.42	SODA CREEK	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Fallon	272.44	SODA CREEK	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Fallon	273.07	UNNAMED TRIBUTARY TO SODA CREEK	EPHEMERAL	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Fallon	275.41	UNNAMED TRIBUTARY TO NORTH FORK COAL BANK CREEK	INTERMITTENT		
Fallon	276.36	NORTH FORK COAL BANK CREEK	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Fallon	276.61	UNNAMED TRIBUTARY TO NORTH FORK COAL BANK CREEK	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Fallon	278.15	UNNAMED TRIBUTARY TO NORTH FORK COAL BANK CREEK	EPHEMERAL		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Fallon	279.51	SOUTH FORK COAL BANK CREEK	INTERMITTENT	AGRICULTURAL; AQUATIC LIFE; DRINKING WATER; INDUSTRIAL; PRIMARY CONTACT RECREATION	
Fallon	281.47	BOXELDER CREEK	PERENNIAL	AQUATIC LIFE; PRIMARY CONTACT RECREATION; WARM WATER FISHERY	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED
Fallon	281.97	UNNAMED TRIBUTARY TO BOXELDER CREEK	EPHEMERAL		
<b>South Dakota</b>					
Harding	283.65	UNNAMED TRIBUTARY TO BOXELDER CREEK	EPHEMERAL		
Harding	289.66	SHAW CREEK	INTERMITTENT		
Harding	290.63	UNNAMED TRIBUTARY TO LITTLE MISSOURI RIVER	EPHEMERAL		
Harding	291.20	UNNAMED TRIBUTARY TO LITTLE MISSOURI RIVER	EPHEMERAL		
Harding	292.08	LITTLE MISSOURI RIVER	PERENNIAL	FISH AND WILDLIFE PROPAGATION, RECREATION, AND STOCK WATERING WATERS; IRRIGATION WATERS; LIMITED CONTACT RECREATION WATERS;	FULLY SUPPORTING; FULLY SUPPORTING; FULLY SUPPORTING; FULLY SUPPORTING

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
				WARMWATER SEMIPERMANENT FISH LIFE PROPAGATION WATERS	
Harding	292.43	UNNAMED TRIBUTARY TO LITTLE MISSOURI RIVER	EPHEMERAL		
Harding	294.04	UNNAMED TRIBUTARY TO KIMBLE CREEK	EPHEMERAL		
Harding	294.59	UNNAMED TRIBUTARY TO KIMBLE CREEK	INTERMITTENT		
Harding	294.82	UNNAMED TRIBUTARY TO KIMBLE CREEK	EPHEMERAL		
Harding	294.87	UNNAMED TRIBUTARY TO KIMBLE CREEK	EPHEMERAL		
Harding	295.21	UNNAMED TRIBUTARY TO KIMBLE CREEK	INTERMITTENT		
Harding	295.33	UNNAMED TRIBUTARY TO KIMBLE CREEK	INTERMITTENT		
Harding	295.85	UNNAMED TRIBUTARY TO KIMBLE CREEK	INTERMITTENT		
Harding	296.13	UNNAMED TRIBUTARY TO KIMBLE CREEK	EPHEMERAL		
Harding	296.99	UNNAMED TRIBUTARY TO KIMBLE CREEK	INTERMITTENT		
Harding	297.33	UNNAMED TRIBUTARY TO KIMBLE CREEK	INTERMITTENT	Fish and Wildlife Propagation,	

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
				Recreation, and Stock Watering Waters	
Harding	297.73	UNNAMED TRIBUTARY TO KIMBLE CREEK	INTERMITTENT		
Harding	300.13	UNNAMED TRIBUTARY TO DRY HOUSE CREEK	EPHEMERAL		
Harding	300.42	DRY HOUSE CREEK	INTERMITTENT		
Harding	301.76	UNNAMED TRIBUTARY TO JONES CREEK	EPHEMERAL		
Harding	302.15	UNNAMED TRIBUTARY TO JONES CREEK	EPHEMERAL		
Harding	303.27	UNNAMED TRIBUTARY TO JONES CREEK	INTERMITTENT		
Harding	303.95	UNNAMED TRIBUTARY TO JONES CREEK	INTERMITTENT		
Harding	304.22	UNNAMED TRIBUTARY TO JONES CREEK	EPHEMERAL		
Harding	304.75	UNNAMED TRIBUTARY TO JONES CREEK	INTERMITTENT		
Harding	306.09	UNNAMED TRIBUTARY TO JONES CREEK	EPHEMERAL		
Harding	306.65	UNNAMED TRIBUTARY TO JONES CREEK	EPHEMERAL		
Harding	307.43	UNNAMED TRIBUTARY TO JONES CREEK	EPHEMERAL		
Harding	308.21	UNNAMED TRIBUTARY TO RUSH CREEK	EPHEMERAL		
Harding	308.28	UNNAMED TRIBUTARY TO RUSH CREEK	EPHEMERAL		
Harding	308.60	UNNAMED TRIBUTARY TO RUSH CREEK	EPHEMERAL		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Harding	308.70	UNNAMED TRIBUTARY TO RUSH CREEK	EPHEMERAL		
Harding	309.13	UNNAMED TRIBUTARY TO RUSH CREEK	EPHEMERAL		
Harding	309.55	UNNAMED TRIBUTARY TO RUSH CREEK	EPHEMERAL		
Harding	311.67	UNNAMED TRIBUTARY TO RUSH CREEK	EPHEMERAL		
Harding	315.85	UNNAMED TRIBUTARY TO SOUTH FORK GRAND RIVER	EPHEMERAL		
Harding	316.55	UNNAMED TRIBUTARY TO SOUTH FORK GRAND RIVER	EPHEMERAL		
Harding	316.96	UNNAMED POND	MAN-MADE WATERBODY		
Harding	317.86	UNNAMED TRIBUTARY TO SOUTH FORK GRAND RIVER	EPHEMERAL		
Harding	318.09	SOUTH FORK GRAND RIVER	PERENNIAL	FISH AND WILDLIFE PROPAGATION, RECREATION, AND STOCK WATERING WATERS; IRRIGATION WATERS; LIMITED CONTACT RECREATION WATERS; WARMWATER SEMIPERMANENT FISH LIFE PROPAGATION WATERS	FULLY SUPPORTING; NOT SUPPORTING; FULLY SUPPORTING; NOT SUPPORTING
Harding	318.14	UNNAMED TRIBUTARY TO SOUTH FORK GRAND RIVER	EPHEMERAL		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Harding	322.88	CLARKS FORK CREEK	PERENNIAL	Warmwater Marginal Fish Life Propagation Waters, Limited Contact Recreation Waters, Fish and Wildlife Propagation, Recreation, and Stock Watering Waters	
Harding	328.67	WEST SQUAW CREEK	INTERMITTENT		
Harding	328.74	WEST SQUAW CREEK	INTERMITTENT		
Harding	328.82	WEST SQUAW CREEK	INTERMITTENT		
Harding	328.83	WEST SQUAW CREEK	INTERMITTENT		
Harding	328.86	WEST SQUAW CREEK	PERENNIAL		
Harding	329.07	UNNAMED TRIBUTARY TO WEST SQUAW CREEK	EPHEMERAL		
Harding	329.09	UNNAMED TRIBUTARY TO WEST SQUAW CREEK	EPHEMERAL		
Harding	329.33	UNNAMED TRIBUTARY TO WEST SQUAW CREEK	EPHEMERAL		
Harding	330.34	UNNAMED TRIBUTARY TO WEST SQUAW CREEK	EPHEMERAL		
Harding	330.53	UNNAMED TRIBUTARY TO WEST SQUAW CREEK	INTERMITTENT		
Harding	330.62	UNNAMED TRIBUTARY TO WEST SQUAW CREEK	INTERMITTENT		
Harding	331.01	UNNAMED TRIBUTARY TO WEST SQUAW CREEK	INTERMITTENT	Fish and Wildlife Propagation, Recreation, and Stock	

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
				Watering Waters	
Harding	331.12	UNNAMED TRIBUTARY TO WEST SQUAW CREEK	INTERMITTENT		
Harding	331.32	UNNAMED TRIBUTARY TO WEST SQUAW CREEK	EPHEMERAL		
Harding	331.70	UNNAMED TRIBUTARY TO WEST SQUAW CREEK	INTERMITTENT		
Harding	331.91	UNNAMED TRIBUTARY TO WEST SQUAW CREEK	INTERMITTENT		
Harding	331.98	UNNAMED TRIBUTARY TO WEST SQUAW CREEK	INTERMITTENT		
Harding	332.11	UNNAMED TRIBUTARY TO EAST SQUAW CREEK	EPHEMERAL		
Harding	334.29	WOLF CREEK	EPHEMERAL		
Harding	339.07	RED BUTTE CREEK	INTERMITTENT		
Harding	340.01	GIANNONATTI CREEK	INTERMITTENT		
Harding	341.17	UNNAMED TRIBUTARY TO HOUK SPRING	EPHEMERAL		
Harding	342.76	LITTLE COWBOY CREEK	EPHEMERAL		
Harding	342.79	LITTLE COWBOY CREEK	EPHEMERAL		
Harding	343.10	UNNAMED TRIBUTARY TO N. FORK MOREAU CREEK	EPHEMERAL		
Harding	346.04	UNNAMED POND	MAN-MADE WATERBODY		
Harding	347.00	UNNAMED TRIBUTARY TO SPRING CREEK	EPHEMERAL		
Harding	347.75	SPRING CREEK	INTERMITTENT		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Harding	348.11	UNNAMED TRIBUTARY TO SPRING CREEK	EPHEMERAL		
Harding	348.37	UNNAMED TRIBUTARY TO SPRING CREEK	INTERMITTENT		
Harding	348.86	UNNAMED TRIBUTARY TO SPRING CREEK	EPHEMERAL		
Harding	349.35	UNNAMED TRIBUTARY TO SPRING CREEK	EPHEMERAL		
Harding	349.66	UNNAMED TRIBUTARY TO SPRING CREEK	INTERMITTENT		
Harding	349.67	UNNAMED TRIBUTARY TO SPRING CREEK	INTERMITTENT		
Harding	350.89	DRY CREEK	INTERMITTENT		
Harding	352.15	UNNAMED TRIBUTARY TO NORTH FORK MOREAU RIVER	EPHEMERAL		
Harding	352.31	UNNAMED TRIBUTARY TO NORTH FORK MOREAU RIVER	EPHEMERAL	Fish and Wildlife Propagation, Recreation, and Stock Watering Waters	
Harding	353.06	UNNAMED TRIBUTARY TO NORTH FORK MOREAU RIVER	PERENNIAL		
Harding	353.07	UNNAMED TRIBUTARY TO NORTH FORK MOREAU RIVER	PERENNIAL		
Harding	353.10	UNNAMED TRIBUTARY TO NORTH FORK MOREAU RIVER	PERENNIAL		
Harding	353.12	UNNAMED TRIBUTARY TO NORTH FORK MOREAU RIVER	PERENNIAL		
Harding	353.97	UNNAMED TRIBUTARY TO NORTH FORK MOREAU RIVER	EPHEMERAL		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Harding	354.03	UNNAMED TRIBUTARY TO NORTH FORK MOREAU RIVER	EPHEMERAL		
Butte	355.10	UNNAMED TRIBUTARY TO NORTH FORK MOREAU RIVER	EPHEMERAL		
Butte	355.57	UNNAMED TRIBUTARY TO NORTH FORK MOREAU RIVER	EPHEMERAL		
Butte	356.94	NORTH FORK MOREAU RIVER	PERENNIAL	Warmwater Marginal Fish Life Propagation Waters, Limited Contact Recreation Waters, Fish and Wildlife Propagation, Recreation, and Stock Watering Waters	
Butte	357.57	UNNAMED TRIBUTARY TO NORTH FORK MOREAU RIVER	INTERMITTENT		
Butte	357.95	UNNAMED TRIBUTARY TO NORTH FORK MOREAU RIVER	EPHEMERAL		
Perkins	359.44	UNNAMED TRIBUTARY TO NORTH FORK MOREAU RIVER	EPHEMERAL		
Perkins	361.58	UNNAMED POND	MAN-MADE WATERBODY		
Perkins	361.63	UNNAMED POND	MAN-MADE WATERBODY		
Perkins	362.31	UNNAMED TRIBUTARY TO SOUTH FORK MOREAU RIVER	EPHEMERAL		
Perkins	362.36	UNNAMED TRIBUTARY TO SOUTH FORK MOREAU RIVER	EPHEMERAL		
Perkins	362.39	UNNAMED TRIBUTARY TO SOUTH FORK MOREAU RIVER	EPHEMERAL		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Perkins	362.40	UNNAMED TRIBUTARY TO SOUTH FORK MOREAU RIVER	EPHEMERAL		
Perkins	363.17	UNNAMED TRIBUTARY TO SOUTH FORK MOREAU RIVER	EPHEMERAL		
Perkins	364.17	UNNAMED TRIBUTARY TO SOUTH FORK MOREAU RIVER	EPHEMERAL	Fish and Wildlife Propagation, Recreation, and Stock Watering Waters	
Perkins	364.55	UNNAMED TRIBUTARY TO SOUTH FORK MOREAU RIVER	EPHEMERAL		
Perkins	364.83	S FORK MOREAU RIVER	PERENNIAL	FISH AND WILDLIFE PROPAGATION, RECREATION, AND STOCK WATERING WATERS; IRRIGATION WATERS; LIMITED CONTACT RECREATION WATERS; WARMWATER MARGINAL FISH LIFE PROPAGATION WATERS	FULLY SUPPORTING; NOT SUPPORTING; FULLY SUPPORTING; FULLY SUPPORTING
Perkins	366.43	BEVERLY CREEK	INTERMITTENT		
Meade	374.06	UNNAMED TRIBUTARY TO CEDAR CREEK	INTERMITTENT		
Meade	376.70	UNNAMED TRIBUTARY TO WEST BRANCH PINE CREEK	EPHEMERAL		
Meade	376.74	UNNAMED TRIBUTARY TO WEST BRANCH PINE CREEK	EPHEMERAL		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Meade	376.85	UNNAMED TRIBUTARY TO WEST BRANCH PINE CREEK	EPHEMERAL		
Meade	379.06	WEST BRANCH PINE CREEK	INTERMITTENT	Fish and Wildlife Propagation, Recreation, and Stock Watering Waters	
Meade	383.72	PINE CREEK	PERENNIAL		
Meade	383.98	UNNAMED TRIBUTARY TO WEST BRANCH PINE CREEK	INTERMITTENT		
Meade	383.99	UNNAMED TRIBUTARY TO WEST BRANCH PINE CREEK	INTERMITTENT		
Meade	384.47	UNNAMED TRIBUTARY TO WEST BRANCH PINE CREEK	EPHEMERAL		
Meade	385.28	UNNAMED TRIBUTARY TO PINE CREEK	EPHEMERAL		
Meade	386.40	UNNAMED TRIBUTARY TO PINE CREEK	EPHEMERAL		
Meade	386.41	UNNAMED TRIBUTARY TO PINE CREEK	EPHEMERAL		
Meade	386.42	UNNAMED TRIBUTARY TO PINE CREEK	EPHEMERAL		
Meade	392.22	UNNAMED TRIBUTARY TO WEST BRANCH PINE CREEK	EPHEMERAL		
Meade	393.14	UNNAMED TRIBUTARY TO PINE CREEK	EPHEMERAL		
Meade	394.41	UNNAMED TRIBUTARY TO PINE CREEK	EPHEMERAL		
Meade	394.44	UNNAMED TRIBUTARY TO PINE CREEK	EPHEMERAL		
Meade	394.45	UNNAMED TRIBUTARY TO PINE CREEK	EPHEMERAL		
Meade	394.53	UNNAMED TRIBUTARY TO PINE CREEK	EPHEMERAL		
Meade	394.77	UNNAMED TRIBUTARY TO WEST BRANCH PINE CREEK	EPHEMERAL		
Meade	394.93	UNNAMED TRIBUTARY TO WEST	EPHEMERAL		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
		BRANCH PINE CREEK			
Meade	395.66	UNNAMED TRIBUTARY TO WEST BRANCH PINE CREEK	INTERMITTENT		
Meade	395.78	UNNAMED TRIBUTARY TO WEST BRANCH PINE CREEK	EPHEMERAL		
Meade	395.89	UNNAMED TRIBUTARY TO WEST BRANCH PINE CREEK	INTERMITTENT		
Meade	396.83	UNNAMED TRIBUTARY TO WEST BRANCH PINE CREEK	EPHEMERAL		
Meade	396.96	UNNAMED TRIBUTARY TO WEST BRANCH PINE CREEK	EPHEMERAL		
Meade	397.11	UNNAMED TRIBUTARY TO WEST BRANCH PINE CREEK	EPHEMERAL		
Meade	397.88	UNNAMED TRIBUTARY TO SULPHUR CREEK	EPHEMERAL		
Meade	398.11	UNNAMED TRIBUTARY TO SULPHUR CREEK	EPHEMERAL		
Meade	398.13	UNNAMED TRIBUTARY TO SULPHUR CREEK	EPHEMERAL		
Meade	398.66	UNNAMED TRIBUTARY TO SULPHUR CREEK	EPHEMERAL		
Meade	399.24	UNNAMED TRIBUTARY TO SULFUR CREEK	EPHEMERAL		
Meade	399.96	SULPHUR CREEK	INTERMITTENT	Warmwater Marginal Fish Life Propagation Waters, Limited Contact Recreation Waters, Fish and Wildlife Propagation,	

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
				Recreation, and Stock Watering Waters	
Meade	400.40	UNNAMED TRIBUTARY TO SULPHUR CREEK	EPHEMERAL		
Meade	406.82	UNNAMED TRIBUTARY TO SPRING CREEK	INTERMITTENT		
Meade	407.82	UNNAMED TRIBUTARY TO RED OWL CREEK	INTERMITTENT		
Meade	408.70	UNNAMED TRIBUTARY TO RED OWL CREEK	INTERMITTENT		
Meade	408.94	RED OWL CREEK	PERENNIAL	Warmwater Marginal Fish Life Propagation Waters, Limited Contact Recreation Waters, Fish and Wildlife Propagation, Recreation, and Stock Watering Waters	
Meade	409.70	UNNAMED TRIBUTARY TO RED OWL CREEK	INTERMITTENT		
Meade	419.76	WEST BRANCH NARCELLE CREEK	INTERMITTENT		
Meade	419.93	WEST BRANCH NARCELLE CREEK	INTERMITTENT		
Meade	420.43	WEST BRANCH NARCELLE CREEK	INTERMITTENT		
Meade	420.46	UNNAMED POND	OPEN WATER		
Meade	422.00	NARCELLE CREEK	EPHEMERAL		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Meade	422.04	NARCELLE CREEK	EPHEMERAL	Fish and Wildlife Propagation, Recreation, and Stock Watering Waters	
Meade	422.12	NARCELLE CREEK	INTERMITTENT		
Meade	422.23	UNNAMED TRIBUTARY TO NARCELLE CREEK	INTERMITTENT		
Meade	422.83	NARCELLE CREEK	INTERMITTENT		
Meade	423.10	NARCELLE CREEK	INTERMITTENT		
Meade	423.37	NARCELLE RIVER	INTERMITTENT		
Meade	424.66	NEGRO CREEK	INTERMITTENT		
Meade	425.42	NARCELLE CREEK	PERENNIAL		
Pennington	426.02	UNNAMED TRIBUTARY TO CHEYENNE RIVER	EPHEMERAL		
Pennington	426.07	CHEYENNE RIVER	PERENNIAL	FISH AND WILDLIFE PROPAGATION, RECREATION, AND STOCK WATERING WATERS; IMMERSION RECREATION WATERS; IRRIGATION WATERS; LIMITED CONTACT RECREATION WATERS; WARMWATER PERMANENT FISH LIFE PROPAGATION WATERS	FULLY SUPPORTING; NOT SUPPORTING; FULLY SUPPORTING; FULLY SUPPORTING; NOT SUPPORTING
Haakon	426.42	UNNAMED TRIBUTARY TO ASH CREEK	EPHEMERAL		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Haakon	426.59	UNNAMED TRIBUTARY TO ASH CREEK	EPHEMERAL		
Haakon	426.67	UNNAMED TRIBUTARY TO ASH CREEK	EPHEMERAL		
Haakon	426.76	UNNAMED TRIBUTARY TO ASH CREEK	EPHEMERAL		
Haakon	426.79	UNNAMED TRIBUTARY TO ASH CREEK	EPHEMERAL		
Haakon	426.89	UNNAMED TRIBUTARY TO ASH CREEK	EPHEMERAL		
Haakon	428.70	UNNAMED TRIBUTARY TO BRIDGER CREEK	EPHEMERAL		
Haakon	428.87	UNNAMED TRIBUTARY TO BRIDGER CREEK	EPHEMERAL		
Haakon	429.11	BRIDGER CREEK	PERENNIAL		
Haakon	429.37	UNNAMED TRIBUTARY TO BRIDGER CREEK	EPHEMERAL		
Haakon	429.66	UNNAMED TRIBUTARY TO BRIDGER CREEK	EPHEMERAL		
Haakon	429.80	UNNAMED TRIBUTARY TO BRIDGER CREEK	EPHEMERAL		
Haakon	435.98	UNNAMED TRIBUTARY TO ELM TREE DRAW	EPHEMERAL		
Haakon	438.14	UNNAMED TRIBUTARY TO HAXBY DRAW	EPHEMERAL		
Haakon	438.68	UNNAMED TRIBUTARY TO HAXBY DRAW	EPHEMERAL		
Haakon	441.32	UNNAMED TRIBUTARY TO WEST PLUM CREEK	INTERMITTENT	Fish and Wildlife Propagation, Recreation, and Stock Watering Waters	
Haakon	443.84	WEST PLUM CREEK	PERENNIAL		
Haakon	448.45	UNNAMED TRIBUTARY TO WEST PLUM	EPHEMERAL		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
		CREEK			
Haakon	450.02	UNNAMED TRIBUTARY TO WEST PLUM CREEK	EPHEMERAL		
Haakon	452.16	UNNAMED TRIBUTARY TO WEST PLUM CREEK	EPHEMERAL	Fish and Wildlife Propagation, Recreation, and Stock Watering Waters	
Haakon	455.21	UNNAMED TRIBUTARY TO BUZZARD CREEK	EPHEMERAL		
Haakon	455.39	UNNAMED TRIBUTARY TO BUZZARD CREEK	EPHEMERAL		
Haakon	456.10	UNNAMED TRIBUTARY TO BUZZARD CREEK	EPHEMERAL		
Haakon	460.92	WITCHER HOLES CREEK	INTERMITTENT		
Haakon	460.94	WITCHER HOLES CREEK	INTERMITTENT		
Haakon	461.63	UNNAMED TRIBUTARY TO WITCHER HOLES CREEK	EPHEMERAL	Fish and Wildlife Propagation, Recreation, and Stock Watering Waters	
Haakon	465.03	UNNAMED POND	OPEN WATER	Fish and Wildlife Propagation, Recreation, and Stock Watering Waters	
Haakon	468.40	UNNAMED TRIBUTARY TO NOWLIN CREEK	INTERMITTENT		
Haakon	470.78	MUD CREEK	EPHEMERAL		
Haakon	470.94	UNNAMED TRIBUTARY TO MUD CREEK	EPHEMERAL		
Haakon	471.99	UNNAMED TRIBUTARY TO MUD CREEK	EPHEMERAL		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Haakon	472.74	JACK DAILEY CREEK	EPHEMERAL		
Haakon	474.23	UNNAMED TRIBUTARY TO JACK DAILEY CREEK	INTERMITTENT		
Haakon	474.78	UNNAMED TRIBUTARY TO JACK DAILEY CREEK	EPHEMERAL		
Haakon	479.27	MITCHELL CREEK	PERENNIAL		
Haakon	481.54	BAD RIVER	PERENNIAL		
Haakon	481.95	UNNAMED TRIBUTARY TO BAD RIVER	EPHEMERAL		
Haakon	482.93	UNNAMED TRIBUTARY TO BAD RIVER	EPHEMERAL		
Haakon	483.02	UNNAMED TRIBUTARY TO BAD RIVER	EPHEMERAL		
Jones	485.69	UNNAMED TRIBUTARY TO SOUTH CREEK	INTERMITTENT		
Jones	486.72	SOUTH CREEK	EPHEMERAL		
Jones	486.84	UNNAMED TRIBUTARY TO SOUTH CREEK	EPHEMERAL		
Jones	488.25	UNNAMED TRIBUTARY TO SOUTH CREEK	INTERMITTENT		
Jones	488.43	UNNAMED TRIBUTARY TO SOUTH CREEK	INTERMITTENT		
Jones	492.23	UNNAMED TRIBUTARY TO DRY CREEK	INTERMITTENT		
Jones	492.45	UNNAMED TRIBUTARY TO DRY CREEK	INTERMITTENT		
Jones	492.82	UNNAMED TRIBUTARY TO DRY CREEK	INTERMITTENT		
Jones	493.92	DRY CREEK	INTERMITTENT		
Jones	494.71	UNNAMED TRIBUTARY TO DRY CREEK	INTERMITTENT		
Jones	496.82	UNNAMED TRIBUTARY TO ASH DRAW	INTERMITTENT		
Jones	497.42	ASH DRAW	INTERMITTENT		
Jones	498.93	UNNAMED TRIBUTARY TO ASH DRAW	EPHEMERAL		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Jones	501.00	UNNAMED TRIBUTARY TO WHITE CLAY CREEK	EPHEMERAL		
Jones	501.79	WHITE CLAY CREEK	INTERMITTENT		
Jones	502.40	UNNAMED POND	MAN-MADE WATERBODY		
Jones	502.99	UNNAMED TRIBUTARY TO WHITE CLAY CREEK	EPHEMERAL		
Jones	503.66	UNNAMED TRIBUTARY TO WHITE CLAY CREEK	EPHEMERAL		
Jones	504.66	UNNAMED TRIBUTARY TO WHITE CLAY CREEK	EPHEMERAL		
Jones	505.46	UNNAMED TRIBUTARY TO WHITE CLAY CREEK	EPHEMERAL		
Jones	505.62	UNNAMED TRIBUTARY TO WHITE CLAY CREEK	EPHEMERAL		
Jones	506.19	UNNAMED TRIBUTARY TO EAST BRANCH WHITE CLAY CREEK	EPHEMERAL		
Jones	506.82	UNNAMED TRIBUTARY TO EAST BRANCH WHITE CLAY CREEK	EPHEMERAL		
Jones	506.91	UNNAMED TRIBUTARY TO EAST BRANCH WHITE CLAY CREEK	EPHEMERAL		
Jones	506.97	UNNAMED TRIBUTARY TO EAST BRANCH WHITE CLAY CREEK	EPHEMERAL		
Jones	507.87	UNNAMED TRIBUTARY TO EAST BRANCH WHITE CLAY CREEK	EPHEMERAL		
Jones	510.42	UNNAMED TRIBUTARY TO BULL CREEK	EPHEMERAL		
Jones	510.84	UNNAMED TRIBUTARY TO BULL CREEK	EPHEMERAL		
Jones	510.90	UNNAMED TRIBUTARY TO BULL CREEK	EPHEMERAL		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Jones	511.85	UNNAMED TRIBUTARY TO BULL CREEK	INTERMITTENT	Fish and Wildlife Propagation, Recreation, and Stock Watering Waters	
Jones	513.23	UNNAMED TRIBUTARY TO BULL CREEK	EPHEMERAL		
Jones	513.84	UNNAMED TRIBUTARY TO BULL CREEK	EPHEMERAL		
Jones	514.41	UNNAMED TRIBUTARY TO BULL CREEK	EPHEMERAL		
Jones	514.65	UNNAMED TRIBUTARY TO BULL CREEK	EPHEMERAL		
Jones	514.68	UNNAMED TRIBUTARY TO BULL CREEK	EPHEMERAL		
Jones	515.28	UNNAMED TRIBUTARY TO BULL CREEK	INTERMITTENT		
Jones	517.47	UNNAMED TRIBUTARY TO MEDICINE CREEK	INTERMITTENT		
Jones	518.29	UNNAMED TRIBUTARY TO MEDICINE CREEK	EPHEMERAL	Fish and Wildlife Propagation, Recreation, and Stock Watering Waters	
Jones	519.43	UNNAMED TRIBUTARY TO WILLIAMS CREEK	INTERMITTENT		
Jones	520.61	WILLIAMS CREEK	EPHEMERAL	FISH AND WILDLIFE PROPAGATION, RECREATION, AND STOCK WATERING WATERS; IRRIGATION WATERS	FULLY SUPPORTING; FULLY SUPPORTING
Jones	522.32	UNNAMED TRIBUTARY TO WILLIAMS CREEK	INTERMITTENT		
Jones	523.71	UNNAMED TRIBUTARY TO WILLIAMS CREEK	INTERMITTENT		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Jones	523.76	UNNAMED TRIBUTARY TO WILLIAMS CREEK	INTERMITTENT		
Jones	523.81	UNNAMED TRIBUTARY TO WILLIAMS CREEK	INTERMITTENT		
Lyman	530.14	SEDLANO CREEK	INTERMITTENT		
Lyman	530.90	UNNAMED TRIBUTARY TO SEDLANO CREEK	INTERMITTENT		
Lyman	533.19	UNNAMED TRIBUTARY TO SEDLANO CREEK	INTERMITTENT		
Lyman	533.30	UNNAMED TRIBUTARY TO SEDLANO CREEK	EPHEMERAL		
Lyman	536.00	UNNAMED TRIBUTARY TO WHITE RIVER	EPHEMERAL		
Lyman	537.09	WHITE RIVER	PERENNIAL		
Tripp	537.13	WHITE RIVER	PERENNIAL		
Tripp	538.17	UNNAMED TRIBUTARY TO WHITE RIVER	EPHEMERAL		
Tripp	539.00	UNNAMED TRIBUTARY TO LITTLE DOG CREEK	EPHEMERAL		
Tripp	539.32	LITTLE DOG CREEK	INTERMITTENT		
Tripp	539.34	UNNAMED TRIBUTARY TO LITTLE DOG CREEK	EPHEMERAL		
Tripp	540.09	UNNAMED TRIBUTARY TO LITTLE DOG CREEK	EPHEMERAL		
Tripp	541.49	UNNAMED TRIBUTARY TO COTTONWOOD CREEK	EPHEMERAL		
Tripp	541.90	UNNAMED TRIBUTARY TO COTTONWOOD CREEK	EPHEMERAL		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Tripp	542.35	UNNAMED TRIBUTARY TO COTTONWOOD CREEK	EPHEMERAL		
Tripp	542.55	UNNAMED TRIBUTARY TO COTTONWOOD CREEK	INTERMITTENT		
Tripp	543.11	COTTONWOOD CREEK	INTERMITTENT		
Tripp	545.96	UNNAMED TRIBUTARY TO COTTONWOOD CREEK	EPHEMERAL		
Tripp	548.12	UNNAMED TRIBUTARY TO OWL CREEK	EPHEMERAL		
Tripp	548.27	UNNAMED TRIBUTARY TO OWL CREEK	EPHEMERAL		
Tripp	549.65	UNNAMED TRIBUTARY TO OWL CREEK	INTERMITTENT		
Tripp	551.44	UNNAMED TRIBUTARY TO OWL CREEK	INTERMITTENT		
Tripp	551.64	UNNAMED TRIBUTARY TO OWL CREEK	EPHEMERAL		
Tripp	553.34	OWL CREEK	INTERMITTENT		
Tripp	557.50	UNNAMED TRIBUTARY TO OWL CREEK	EPHEMERAL		
Tripp	560.39	UNNAMED TRIBUTARY TO HOLLOW CREEK	INTERMITTENT		
Tripp	560.42	UNNAMED TRIBUTARY TO HOLLOW CREEK	INTERMITTENT		
Tripp	560.44	UNNAMED TRIBUTARY TO HOLLOW CREEK	INTERMITTENT		
Tripp	560.80	UNNAMED TRIBUTARY TO DOG EAR CREEK	EPHEMERAL		
Tripp	565.93	DOG EAR CREEK	INTERMITTENT		
Tripp	566.39	MUDDY CREEK	INTERMITTENT		
Tripp	572.72	SAND CREEK	INTERMITTENT		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Tripp	576.80	PONCA CREEK	INTERMITTENT	FISH AND WILDLIFE PROPAGATION, RECREATION, AND STOCK WATERING WATERS; IRRIGATION WATERS; LIMITED CONTACT RECREATION WATERS; WARMWATER SEMIPERMANENT FISH LIFE PROPAGATION WATERS	FULLY SUPPORTING; FULLY SUPPORTING; NOT SUPPORTING; NOT SUPPORTING
Tripp	580.22	UNNAMED TRIBUTARY TO PONCA CREEK	EPHEMERAL		
Tripp	581.08	UNNAMED TRIBUTARY TO PONCA CREEK	EPHEMERAL		
Tripp	588.50	UNNAMED TRIBUTARY TO LUTE CREEK	EPHEMERAL		
Tripp	589.21	UNNAMED TRIBUTARY TO LUTE CREEK	EPHEMERAL		
Tripp	591.10	LUTE CREEK	INTERMITTENT		
Tripp	591.28	UNNAMED TRIBUTARY TO LUTE CREEK	EPHEMERAL		
Tripp	591.40	UNNAMED TRIBUTARY TO LUTE CREEK	EPHEMERAL		
Tripp	591.97	UNNAMED TRIBUTARY TO LUTE CREEK	EPHEMERAL		
Tripp	592.24	UNNAMED TRIBUTARY TO LUTE CREEK	INTERMITTENT		
Tripp	592.94	UNNAMED TRIBUTARY TO BUFFALO CREEK	EPHEMERAL		
Tripp	593.10	UNNAMED TRIBUTARY TO BUFFALO CREEK	EPHEMERAL		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Tripp	593.34	UNNAMED TRIBUTARY TO BUFFALO CREEK	EPHEMERAL		
Tripp	593.54	UNNAMED TRIBUTARY TO BUFFALO CREEK	EPHEMERAL		
Tripp	593.73	UNNAMED TRIBUTARY TO BUFFALO CREEK	EPHEMERAL		
Tripp	593.80	UNNAMED TRIBUTARY TO BUFFALO CREEK	EPHEMERAL		
Tripp	594.07	UNNAMED TRIBUTARY TO BUFFALO CREEK	EPHEMERAL		
Tripp	594.16	UNNAMED TRIBUTARY TO BUFFALO CREEK	EPHEMERAL		
Tripp	594.50	UNNAMED TRIBUTARY TO BUFFALO CREEK	EPHEMERAL		
Tripp	595.54	UNNAMED TRIBUTARY TO BUFFALO CREEK	EPHEMERAL		
Tripp	595.89	BUFFALO CREEK	INTERMITTENT	Fish and Wildlife Propagation, Recreation, and Stock Watering Waters	
Tripp	596.75	UNNAMED TRIBUTARY TO BUFFALO CREEK	EPHEMERAL		
<b>Nebraska</b>					
Keya Paha	596.95	UNNAMED TRIBUTARY TO BUFFALO CREEK	EPHEMERAL		
Keya Paha	597.21	UNNAMED TRIBUTARY TO BUFFALO CREEK	EPHEMERAL		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Keya Paha	597.97	UNNAMED TRIBUTARY TO BUFFALO CREEK	INTERMITTENT	AESTHETICS; AGRICULTURAL WATER SUPPLY-CLASS A; FISH CONSUMPTION; WARM WATER AQUATIC LIFE (CLASS B)	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED
Keya Paha	599.13	UNNAMED TRIBUTARY TO KEYA PAHA RIVER	EPHEMERAL		
Keya Paha	599.90	KEYA PAHA RIVER	PERENNIAL	AESTHETICS; AGRICULTURAL WATER SUPPLY-CLASS A; FISH CONSUMPTION; PRIMARY CONTACT RECREATION; PROTECTION OF AQUATIC LIFE; WARM WATER AQUATIC LIFE (CLASS A)	FULLY SUPPORTING; FULLY SUPPORTING; NOT ASSESSED; NOT SUPPORTING; FULLY SUPPORTING; FULLY SUPPORTING
Keya Paha	601.12	UNNAMED TRIBUTARY TO KEYA PAHA RIVER	INTERMITTENT		
Keya Paha	601.46	UNNAMED TRIBUTARY TO KEYA PAHA RIVER	INTERMITTENT		
Keya Paha	604.19	SPRING CREEK	PERENNIAL	AESTHETICS; AGRICULTURAL WATER SUPPLY-CLASS A; COLD WATER	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
				AQUATIC LIFE (CLASS B); FISH CONSUMPTION	
Keya Paha	604.53	UNNAMED TRIBUTARY TO SPRING CREEK	EPHEMERAL		
Keya Paha	615.38	NIOBRARA RIVER	PERENNIAL		
Keya Paha	615.48	NIOBRARA RIVER	PERENNIAL		
Rock	615.61	NIOBRARA RIVER	PERENNIAL		
Rock	624.65	ASH CREEK	INTERMITTENT		
Holt	628.81	UNNAMED TRIBUTARY TO NORTH BRANCH ELKHORN RIVER	EPHEMERAL		
Holt	628.92	NORTH BRANCH ELKHORN RIVER	INTERMITTENT	AESTHETICS; AGRICULTURAL WATER SUPPLY-CLASS A; FISH CONSUMPTION; WARM WATER AQUATIC LIFE (CLASS A)	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED
Holt	630.16	UNNAMED TRIBUTARY TO SOUTH BRANCH ELKHORN RIVER	INTERMITTENT		
Holt	630.46	SOUTH FORK ELKHORN RIVER	PERENNIAL	AESTHETICS; AGRICULTURAL WATER SUPPLY-CLASS A; FISH CONSUMPTION; WARM WATER AQUATIC LIFE (CLASS	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
				A)	
Holt	630.69	UNNAMED TRIBUTARY TO SOUTH BRANCH ELKHORN RIVER	INTERMITTENT		
Holt	634.18	UNNAMED TRIBUTARY TO KEEGAN CREEK	MAN-MADE DITCH		
Holt	636.33	KEEGAN CREEK	INTERMITTENT		
Holt	636.35	KEEGAN CREEK	INTERMITTENT		
Holt	636.36	KEEGAN CREEK	INTERMITTENT		
Holt	639.88	UNNAMED TRIBUTARY TO DRY CREEK	EPHEMERAL		
Holt	640.57	DRY CREEK	INTERMITTENT		
Holt	647.10	UNNAMED TRIBUTARY TO HOLT CREEK	EPHEMERAL		
Holt	647.31	HOLT CREEK	PERENNIAL		
Holt	648.00	UNNAMED TRIBUTARY TO HOLT CREEK	EPHEMERAL		
Holt	649.98	UNNAMED TRIBUTARY TO HOLT CREEK	INTERMITTENT		
Holt	654.18	UNNAMED TRIBUTARY TO DRY CREEK	INTERMITTENT		
Holt	656.17	UNNAMED TRIBUTARY TO DRY CREEK	EPHEMERAL		
Holt	657.84	DRY CREEK	INTERMITTENT		
Holt	658.79	DRY CREEK	INTERMITTENT		
Holt	660.22	SOUTH FORK ELKHORN RIVER	PERENNIAL		
Holt	660.23	SOUTH FORK ELKHORN RIVER	PERENNIAL		
Wheeler	697.30	CEDAR RIVER	PERENNIAL	AESTHETICS; AGRICULTURAL WATER SUPPLY-CLASS A; FISH	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED;

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
				CONSUMPTION; PRIMARY CONTACT RECREATION; WARM WATER AQUATIC LIFE (CLASS A)	NOT ASSESSED
Greeley	708.57	UNNAMED TRIBUTARY TO FREEMAN CREEK	INTERMITTENT		
Greeley	712.30	UNNAMED TRIBUTARY TO TROY CREEK	EPHEMERAL		
Greeley	712.63	UNNAMED TRIBUTARY TO TROY CREEK	EPHEMERAL		
Greeley	712.76	UNNAMED TRIBUTARY TO TROY CREEK	EPHEMERAL		
Greeley	712.97	UNNAMED TRIBUTARY TO TROY CREEK	EPHEMERAL		
Greeley	713.52	UNNAMED TRIBUTARY TO TROY CREEK	EPHEMERAL		
Greeley	714.06	TROY CREEK	EPHEMERAL		
Greeley	714.35	UNNAMED TRIBUTARY TO TROY CREEK	EPHEMERAL		
Greeley	714.89	UNNAMED TRIBUTARY TO TROY CREEK	EPHEMERAL		
Greeley	715.12	UNNAMED TRIBUTARY TO TROY CREEK	EPHEMERAL		
Greeley	715.56	UNNAMED TRIBUTARY TO TROY CREEK	EPHEMERAL		
Greeley	715.78	UNNAMED TRIBUTARY TO TROY CREEK	MAN-MADE WATERBODY		
Greeley	720.58	UNNAMED TRIBUTARY TO SOUTH BRANCH TIMBER CREEK	EPHEMERAL		
Greeley	722.21	UNNAMED TRIBUTARY TO SOUTH BRANCH TIMBER CREEK	EPHEMERAL		
Greeley	722.28	UNNAMED TRIBUTARY TO SOUTH BRANCH TIMBER CREEK	EPHEMERAL		
Boone	722.41	UNNAMED TRIBUTARY TO SOUTH BRANCH TIMBER CREEK	EPHEMERAL		
Boone	722.52	UNNAMED TRIBUTARY TO SOUTH	EPHEMERAL		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
		BRANCH TIMBER CREEK			
Boone	722.55	UNNAMED TRIBUTARY TO SOUTH BRANCH TIMBER CREEK	EPHEMERAL		
Boone	722.82	UNNAMED TRIBUTARY TO SOUTH BRANCH TIMBER CREEK	EPHEMERAL		
Boone	722.85	UNNAMED TRIBUTARY TO SOUTH BRANCH TIMBER CREEK	EPHEMERAL		
Nance	727.90	UNNAMED TRIBUTARY TO SOUTH BRANCH TIMBER CREEK	EPHEMERAL		
Nance	727.96	UNNAMED TRIBUTARY TO SOUTH BRANCH TIMBER CREEK	EPHEMERAL		
Nance	728.52	SOUTH BRANCH TIMBER CREEK	PERENNIAL		
Nance	729.39	UNNAMED TRIBUTARY TO SOUTH BRANCH TIMBER CREEK	EPHEMERAL		
Nance	729.69	UNNAMED TRIBUTARY TO SOUTH BRANCH TIMBER CREEK	PERENNIAL		
Nance	729.77	UNNAMED TRIBUTARY TO SOUTH BRANCH TIMBER CREEK	PERENNIAL		
Nance	730.44	UNNAMED TRIBUTARY TO SOUTH BRANCH TIMBER CREEK	EPHEMERAL		
Nance	731.35	UNNAMED TRIBUTARY TO SOUTH BRANCH TIMBER CREEK	EPHEMERAL		
Nance	732.99	UNNAMED TRIBUTARY TO TIMBER CREEK	EPHEMERAL		
Nance	735.48	UNNAMED TRIBUTARY TO HORSE CREEK	OPEN WATER		
Nance	735.50	UNNAMED TRIBUTARY TO HORSE CREEK	EPHEMERAL		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Nance	736.57	UNNAMED TRIBUTARY TO HORSE CREEK	EPHEMERAL		
Nance	738.63	FULLERTON CANAL	PERENNIAL		
Nance	740.72	LOUP RIVER	PERENNIAL	AESTHETICS; AGRICULTURAL WATER SUPPLY-CLASS A; FISH CONSUMPTION; PRIMARY CONTACT RECREATION; PROTECTION OF AQUATIC LIFE; WARM WATER AQUATIC LIFE (CLASS A)	FULLY SUPPORTING; FULLY SUPPORTING; NOT ASSESSED; NOT SUPPORTING; FULLY SUPPORTING; FULLY SUPPORTING
Nance	741.06	UNNAMED TRIBUTARY TO LOUP RIVER	EPHEMERAL		
Merrick	747.14	PRAIRIE CREEK	PERENNIAL	AESTHETICS; AGRICULTURAL WATER SUPPLY-CLASS A; FISH CONSUMPTION; PROTECTION OF AQUATIC LIFE; WARM WATER AQUATIC LIFE (CLASS B)	FULLY SUPPORTING; FULLY SUPPORTING; NOT ASSESSED; NOT SUPPORTING; NOT SUPPORTING
Merrick	751.27	UNNAMED TRIBUTARY TO SILVER CREEK	EPHEMERAL		
Merrick	751.56	SILVER CREEK	MAN-MADE DITCH		
Merrick	753.85	UNNAMED TRIBUTARY TO SILVER CREEK	MAN-MADE DITCH		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Merrick	755.74	WARM SLOUGH	PERENNIAL		
Merrick	756.28	PLATTE RIVER	PERENNIAL	AESTHETICS; AGRICULTURAL WATER SUPPLY-CLASS A; FISH CONSUMPTION; PRIMARY CONTACT RECREATION; PROTECTION OF AQUATIC LIFE; WARM WATER AQUATIC LIFE (CLASS A)	FULLY SUPPORTING; FULLY SUPPORTING; FULLY SUPPORTING; FULLY SUPPORTING; FULLY SUPPORTING; FULLY SUPPORTING
Merrick	756.39	PLATTE RIVER	PERENNIAL		
Merrick	756.49	PLATTE RIVER	PERENNIAL		
Merrick	756.51	PLATTE RIVER	INTERMITTENT		
Merrick	756.59	PLATTE RIVER	INTERMITTENT		
Merrick	757.62	UNNAMED TRIBUTARY TO PLATTE RIVER	INTERMITTENT		
Merrick	758.13	UNNAMED TRIBUTARY TO PLATTE RIVER	PERENNIAL		
Merrick	758.24	UNNAMED TRIBUTARY TO PLATTE RIVER	PERENNIAL		
Hamilton	759.20	UNNAMED TRIBUTARY TO PLATTE RIVER	EPHEMERAL		
Hamilton	759.45	UNNAMED TRIBUTARY TO PLATTE RIVER	INTERMITTENT		
Hamilton	759.72	UNNAMED TRIBUTARY TO PLATTE	INTERMITTENT		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
		RIVER			
Hamilton	759.73	UNNAMED TRIBUTARY TO PLATTE RIVER	INTERMITTENT		
Hamilton	759.75	UNNAMED TRIBUTARY TO PLATTE RIVER	INTERMITTENT		
York	765.50	BIG BLUE RIVER	PERENNIAL		
York	767.12	UNNAMED TRIBUTARY TO BIG BLUE RIVER	EPHEMERAL		
York	774.93	LINCOLN CREEK	PERENNIAL		
York	775.20	UNNAMED TRIBUTARY TO LINCOLN CREEK	INTERMITTENT		
York	778.02	UNNAMED TRIBUTARY TO BEAVER CREEK	INTERMITTENT		
York	778.03	UNNAMED TRIBUTARY TO BEAVER CREEK	INTERMITTENT		
York	780.21	BEAVER CREEK	PERENNIAL	AESTHETICS; AGRICULTURAL WATER SUPPLY-CLASS A; FISH CONSUMPTION; WARM WATER AQUATIC LIFE (CLASS B)	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED
York	786.15	UNNAMED TRIBUTARY TO WEST FORK BLIG BLUE RIVER	INTERMITTENT		
York	787.31	UNNAMED TRIBUTARY TO WEST FORK BLIG BLUE RIVER	INTERMITTENT		
York	788.12	UNNAMED TRIBUTARY TO WEST FORK	INTERMITTENT		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
		BLIG BLUE RIVER			
York	789.57	WEST FORK BIG BLUE	PERENNIAL	AESTHETICS; AGRICULTURAL WATER SUPPLY-CLASS A; FISH CONSUMPTION; PRIMARY CONTACT RECREATION; PROTECTION OF AQUATIC LIFE; WARM WATER AQUATIC LIFE (CLASS A)	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; FULLY SUPPORTING; FULLY SUPPORTING
York	789.84	UNNAMED TRIBUTARY TO WEST FORK BLIG BLUE RIVER	EPHEMERAL		
York	790.48	UNNAMED TRIBUTARY TO WEST FORK BLIG BLUE RIVER	EPHEMERAL		
York	791.29	UNNAMED TRIBUTARY TO WEST FORK BLIG BLUE RIVER	EPHEMERAL		
Fillmore	795.05	INDIAN CREEK	INTERMITTENT		
Fillmore	799.43	UNNAMED TRIBUTARY TO INDIAN CREEK	MAN-MADE DITCH		
Fillmore	801.55	UNNAMED TRIBUTARY TO TURKEY CREEK	MAN-MADE DITCH		
Fillmore	806.38	UNNAMED TRIBUTARY TO TURKEY CREEK	INTERMITTENT		
Fillmore	807.54	UNNAMED TRIBUTARY TO TURKEY CREEK	PERENNIAL		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Fillmore	808.55	TURKEY CREEK	PERENNIAL	AESTHETICS; AGRICULTURAL WATER SUPPLY-CLASS A; FISH CONSUMPTION; PROTECTION OF AQUATIC LIFE; WARM WATER AQUATIC LIFE (CLASS B)	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; FULLY SUPPORTING; FULLY SUPPORTING
Fillmore	808.91	UNNAMED TRIBUTARY TO TURKEY CREEK	INTERMITTENT		
Saline	810.08	UNNAMED TRIBUTARY TO TURKEY CREEK	INTERMITTENT		
Saline	810.10	UNNAMED TRIBUTARY TO TURKEY CREEK	INTERMITTENT		
Saline	813.19	UNNAMED TRIBUTARY TO NORTH FORK SWAN CREEK	INTERMITTENT		
Saline	815.14	UNNAMED TRIBUTARY TO NORTH FORK SWAN CREEK	INTERMITTENT		
Saline	815.36	UNNAMED TRIBUTARY TO NORTH FORK SWAN CREEK	INTERMITTENT		
Saline	816.36	UNNAMED TRIBUTARY TO NORTH FORK SWAN CREEK	INTERMITTENT		
Saline	816.41	UNNAMED TRIBUTARY TO NORTH FORK SWAN CREEK	INTERMITTENT		
Saline	816.45	UNNAMED TRIBUTARY TO NORTH FORK SWAN CREEK	INTERMITTENT		
Saline	817.16	UNNAMED TRIBUTARY TO NORTH FORK SWAN CREEK	EPHEMERAL		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Saline	817.55	UNNAMED TRIBUTARY TO NORTH FORK SWAN CREEK	EPHEMERAL		
Saline	823.48	UNNAMED TRIBUTARY TO SOUTH FORK SWAN CREEK	INTERMITTENT		
Saline	823.54	UNNAMED TRIBUTARY TO SOUTH FORK SWAN CREEK	INTERMITTENT		
Saline	823.61	UNNAMED TRIBUTARY TO SOUTH FORK SWAN CREEK	INTERMITTENT		
Saline	823.97	UNNAMED TRIBUTARY TO SOUTH FORK SWAN CREEK	MAN-MADE DITCH		
Saline	825.04	UNNAMED TRIBUTARY TO SOUTH FORK SWAN CREEK	INTERMITTENT		
Saline	825.04	UNNAMED TRIBUTARY TO SOUTH FORK SWAN CREEK	INTERMITTENT		
Jefferson	826.27	SOUTH FORK SWAN CREEK	INTERMITTENT	AESTHETICS; AGRICULTURAL WATER SUPPLY-CLASS A; FISH CONSUMPTION; WARM WATER AQUATIC LIFE (CLASS B)	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED
Jefferson	829.47	UNNAMED TRIBUTARY TO SOUTH FORK SWAN CREEK	INTERMITTENT		
Jefferson	829.81	UNNAMED TRIBUTARY TO SOUTH FORK SWAN CREEK	EPHEMERAL		
Jefferson	829.88	UNNAMED TRIBUTARY TO SOUTH FORK SWAN CREEK	EPHEMERAL		
Jefferson	829.99	UNNAMED TRIBUTARY TO SOUTH	EPHEMERAL		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
		FORK SWAN CREEK			
Jefferson	830.61	UNNAMED TRIBUTARY TO SOUTH FORK SWAN CREEK	EPHEMERAL		
Jefferson	831.33	UNNAMED TRIBUTARY TO CUB CREEK	EPHEMERAL		
Jefferson	832.18	UNNAMED TRIBUTARY TO CUB CREEK	EPHEMERAL		
Jefferson	832.71	UNNAMED TRIBUTARY TO CUB CREEK	EPHEMERAL		
Jefferson	832.73	UNNAMED TRIBUTARY TO CUB CREEK	EPHEMERAL		
Jefferson	832.74	UNNAMED TRIBUTARY TO CUB CREEK	EPHEMERAL		
Jefferson	833.90	UNNAMED TRIBUTARY TO CUB CREEK	EPHEMERAL		
Jefferson	835.29	CUB CREEK	INTERMITTENT		
Jefferson	836.32	UNNAMED TRIBUTARY TO CUB CREEK	EPHEMERAL		
Jefferson	836.94	UNNAMED TRIBUTARY TO CUB CREEK	INTERMITTENT		
Jefferson	837.46	UNNAMED TRIBUTARY TO CUB CREEK	EPHEMERAL		
Jefferson	837.53	UNNAMED TRIBUTARY TO CUB CREEK	EPHEMERAL		
Jefferson	838.62	UNNAMED TRIBUTARY TO CUB CREEK	EPHEMERAL		
Jefferson	838.76	UNNAMED TRIBUTARY TO CUB CREEK	EPHEMERAL		
Jefferson	840.59	UNNAMED TRIBUTARY TO BIG INDIAN CREEK	EPHEMERAL		
Jefferson	843.03	BIG INDIAN CREEK	INTERMITTENT		
Jefferson	847.32	UNNAMED TRIBUTARY TO BIG INDIAN CREEK	MAN-MADE DITCH		
Jefferson	847.34	UNNAMED TRIBUTARY TO BIG INDIAN CREEK	MAN-MADE DITCH		
Jefferson	848.66	UNNAMED TRIBUTARY TO BIG INDIAN CREEK	INTERMITTENT		
Jefferson	849.70	UNNAMED TRIBUTARY TO LITTLE BLUE RIVER	INTERMITTENT		

Appendix E-1 Waterbodies Crossed by the Project - Steele City

<b>County</b>	<b>Approximate Milepost</b>	<b>Waterbody Name</b>	<b>Waterbody Type</b>	<b>State Water Quality Classification</b>	<b>Supports Use Designation</b>
Jefferson	849.84	UNNAMED TRIBUTARY TO LITTLE BLUE RIVER	EPHEMERAL		
Jefferson	850.29	UNNAMED TRIBUTARY TO LITTLE BLUE RIVER	EPHEMERAL		
Jefferson	850.32	UNNAMED TRIBUTARY TO LITTLE BLUE RIVER	EPHEMERAL		
Jefferson	850.49	UNNAMED TRIBUTARY TO LITTLE BLUE RIVER	EPHEMERAL		
Jefferson	850.52	UNNAMED TRIBUTARY TO LITTLE BLUE RIVER	EPHEMERAL		
Jefferson	850.61	UNNAMED TRIBUTARY TO LITTLE BLUE RIVER	EPHEMERAL		
Jefferson	851.33	UNNAMED TRIBUTARY TO LITTLE BLUE RIVER	INTERMITTENT		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
<b>Oklahoma</b>					
Lincoln	0.12	UNNAMED TRIBUTARY TO WILDHORSE CREEK	EPHEMERAL		
Lincoln	1.24	WILDHORSE CREEK	PERENNIAL	AESTHETIC; AGRICULTURE; EMERGENCY WATER SUPPLY; FISH AND WILDLIFE PROPAGATION-WARM WATER AQUATIC COMMUNITY SUBCATEGORY; FISH CONSUMPTION; PRIMARY BODY CONTACT RECREATION; PUBLIC AND PRIVATE WATER SUPPLY	INSUFFICIENT INFORMATION; INSUFFICIENT INFORMATION; FULLY SUPPORTING; INSUFFICIENT INFORMATION; NOT ASSESSED; NOT ASSESSED; INSUFFICIENT INFORMATION
Lincoln	2.45	TURKEY CREEK	PERENNIAL	AESTHETIC; AGRICULTURE; FISH AND WILDLIFE PROPAGATION-WARM WATER AQUATIC COMMUNITY SUBCATEGORY; FISH CONSUMPTION; PRIMARY BODY CONTACT RECREATION	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED
Lincoln	2.94	UNNAMED TRIBUTARY TO EUCHEE CREEK	PERENNIAL		
Lincoln	3.27	UNNAMED TRIBUTARY TO EUCHEE CREEK	PERENNIAL		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Lincoln	3.32	UNNAMED TRIBUTARY TO EUCHEE CREEK	INTERMITTENT	AESTHETIC; AGRICULTURE; EMERGENCY WATER SUPPLY; FISH AND WILDLIFE PROPAGATION-WARM WATER AQUATIC COMMUNITY SUBCATEGORY; FISH CONSUMPTION; SECONDARY BODY CONTACT RECREATION	NOT ASSESSED; NOT ASSESSED; FULLY SUPPORTING; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED
Lincoln	3.61	EUCHEE CREEK	EPHEMERAL	Aesthetics, Agriculture, Warm Water Aquatic Community, Fish Consumption, Primary Body Contact Recreation, Emergency Water Supply	Fully Supporting, Not Supporting, Not Assessed, Not Supporting, Fully Supporting
Lincoln	4.10	UNNAMED TRIBUTARY TO RATTLESNAKE CREEK	EPHEMERAL		
Lincoln	4.87	UNNAMED TRIBUTARY TO RATTLESNAKE CREEK	INTERMITTENT		
Lincoln	6.21	UNNAMED TRIBUTARY TO RATTLESNAKE CREEK	INTERMITTENT		
Lincoln	6.39	UNNAMED TRIBUTARY TO RATTLESNAKE CREEK	INTERMITTENT		
Lincoln	6.46	UNNAMED TRIBUTARY TO RATTLESNAKE CREEK	INTERMITTENT		
Lincoln	6.98	UNNAMED TRIBUTARY TO CAMP CREEK	PERENNIAL		
Lincoln	7.60	UNNAMED TRIBUTARY TO CAMP	UNKNOWN		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
		CREEK			
Lincoln	7.83	UNNAMED TRIBUTARY TO CAMP CREEK	PERENNIAL	AESTHETIC; AGRICULTURE; FISH AND WILDLIFE PROPAGATION-WARM WATER AQUATIC COMMUNITY SUBCATEGORY; FISH CONSUMPTION; PRIMARY BODY CONTACT RECREATION; PUBLIC AND PRIVATE WATER SUPPLY; SWS-SENSITIVE WATER SUPPLY	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED
Lincoln	8.38	UNNAMED TRIBUTARY TO CAMP CREEK	N/A		
Lincoln	9.10	UNNAMED TRIBUTARY TO CAMP CREEK	INTERMITTENT		
Lincoln	9.37	UNNAMED TRIBUTARY TO CAMP CREEK	EPHEMERAL		
Lincoln	10.44	UNNAMED TRIBUTARY TO LILLY CREEK	INTERMITTENT		
Lincoln	10.59	UNNAMED TRIBUTARY TO LILLY CREEK	INTERMITTENT		
Lincoln	11.69	UNNAMED TRIBUTARY TO LILLY CREEK	EPHEMERAL		
Lincoln	13.41	UNNAMED TRIBUTARY TO SALT CREEK	INTERMITTENT		
Lincoln	13.84	UNNAMED TRIBUTARY TO SALT CREEK	SEASONAL		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Lincoln	14.06	SALT CREEK	PERENNIAL	AESTHETIC; AGRICULTURE; FISH AND WILDLIFE PROPAGATION-WARM WATER AQUATIC COMMUNITY SUBCATEGORY; FISH CONSUMPTION; PRIMARY BODY CONTACT RECREATION; PUBLIC AND PRIVATE WATER SUPPLY	FULLY SUPPORTING; FULLY SUPPORTING; NOT SUPPORTING; NOT ASSESSED; NOT SUPPORTING; INSUFFICIENT INFORMATION
Lincoln	14.24	UNNAMED TRIBUTARY TO SALT CREEK	INTERMITTENT		
Lincoln	14.27	UNNAMED TRIBUTARY TO SALT CREEK	INTERMITTENT		
Lincoln	14.52	UNNAMED POND	PERENNIAL		
Lincoln	14.55	UNNAMED TRIBUTARY TO SALT CREEK	SEASONAL		
Lincoln	14.57	UNNAMED TRIBUTARY TO SALT CREEK	INTERMITTENT		
Lincoln	14.60	UNNAMED TRIBUTARY TO SALT CREEK	INTERMITTENT		
Lincoln	14.84	UNNAMED TRIBUTARY TO SALT CREEK	PERENNIAL		
Lincoln	15.23	UNNAMED TRIBUTARY TO SALT CREEK	PERENNIAL		
Lincoln	15.25	UNNAMED TRIBUTARY TO SALT CREEK	PERENNIAL		
Lincoln	15.47	UNNAMED TRIBUTARY TO SALT CREEK	INTERMITTENT		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Creek	19.38	UNNAMED TRIBUTARY TO DEEP FORK RIVER	PERENNIAL		
Creek	19.52	UNNAMED TRIBUTARY TO DEEP FORK RIVER	PERENNIAL	AESTHETIC; AGRICULTURE; FISH AND WILDLIFE PROPAGATION-WARM WATER AQUATIC COMMUNITY SUBCATEGORY; FISH CONSUMPTION; PRIMARY BODY CONTACT RECREATION	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED
Creek	19.82	UNNAMED TRIBUTARY TO DEEP FORK RIVER	INTERMITTENT		
Creek	19.83	UNNAMED TRIBUTARY TO DEEP FORK RIVER	EPHEMERAL		
Creek	19.99	UNNAMED TRIBUTARY TO DEEP FORK RIVER	INTERMITTENT		
Creek	20.10	UNNAMED TRIBUTARY TO DEEP FORK RIVER	INTERMITTENT		
Creek	20.48	UNNAMED TRIBUTARY TO DEEP FORK RIVER	INTERMITTENT		
Creek	20.81	UNNAMED TRIBUTARY TO DEEP FORK RIVER	INTERMITTENT		
Creek	21.31	UNNAMED TRIBUTARY TO DEEP FORK RIVER	INTERMITTENT		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Creek	22.15	DEEP FORK RIVER	PERENNIAL	AESTHETIC; AGRICULTURE; FISH AND WILDLIFE PROPAGATION-WARM WATER AQUATIC COMMUNITY SUBCATEGORY; FISH CONSUMPTION; PRIMARY BODY CONTACT RECREATION; PUBLIC AND PRIVATE WATER SUPPLY	INSUFFICIENT INFORMATION; FULLY SUPPORTING; INSUFFICIENT INFORMATION; NOT ASSESSED; NOT ASSESSED; INSUFFICIENT INFORMATION
Creek	22.99	UNNAMED TRIBUTARY TO DEEP FORK RIVER	INTERMITTENT		
Okfuskee	24.03	PETTIQUAH CREEK	PERENNIAL	AESTHETIC; AGRICULTURE; FISH AND WILDLIFE PROPAGATION-WARM WATER AQUATIC COMMUNITY SUBCATEGORY; FISH CONSUMPTION; PRIMARY BODY CONTACT RECREATION	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED
Okfuskee	24.78	UNNAMED TRIBUTARY TO PETTIQUAH CREEK	EPHEMERAL		
Okfuskee	24.88	UNNAMED TRIBUTARY TO PETTIQUAH CREEK	EPHEMERAL		
Okfuskee	25.01	UNNAMED TRIBUTARY TO PETTIQUAH CREEK	INTERMITTENT		
Okfuskee	25.37	UNNAMED TRIBUTARY TO PETTIQUAH CREEK	INTERMITTENT		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Okfuskee	25.39	UNNAMED TRIBUTARY TO PETTIQUAH CREEK	INTERMITTENT		
Okfuskee	26.42	UNNAMED TRIBUTARY TO HILLIBY CREEK	INTERMITTENT		
Okfuskee	26.81	UNNAMED TRIBUTARY TO HILLIBY CREEK	INTERMITTENT		
Okfuskee	26.84	UNNAMED TRIBUTARY TO HILLIBY CREEK	INTERMITTENT		
Okfuskee	26.92	UNNAMED TRIBUTARY TO HILLIBY CREEK	INTERMITTENT		
Okfuskee	28.30	LITTLE HILLIBY CREEK	PERENNIAL	AESTHETIC; AGRICULTURE; FISH AND WILDLIFE PROPAGATION-WARM WATER AQUATIC COMMUNITY SUBCATEGORY; FISH CONSUMPTION; PRIMARY BODY CONTACT RECREATION	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED
Okfuskee	28.69	UNNAMED TRIBUTARY TO LITTLE HILLIBY CREEK	INTERMITTENT		
Okfuskee	28.92	UNNAMED TRIBUTARY TO LITTLE HILLIBY CREEK	INTERMITTENT		
Okfuskee	28.94	UNNAMED TRIBUTARY TO LITTLE HILLIBY CREEK	INTERMITTENT		
Okfuskee	28.95	UNNAMED TRIBUTARY TO LITTLE HILLIBY CREEK	INTERMITTENT		
Okfuskee	29.82	UNNAMED TRIBUTARY TO HILLIBY CREEK	SEASONAL		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Okfuskee	30.35	UNNAMED TRIBUTARY TO HILLIBY CREEK	EPHEMERAL		
Okfuskee	30.41	HILLIBY	PERENNIAL	AESTHETIC; AGRICULTURE; FISH AND WILDLIFE PROPAGATION-WARM WATER AQUATIC COMMUNITY SUBCATEGORY; FISH CONSUMPTION; PRIMARY BODY CONTACT RECREATION	INSUFFICIENT INFORMATION; INSUFFICIENT INFORMATION; NOT SUPPORTING; NOT ASSESSED; NOT ASSESSED
Okfuskee	30.61	UNNAMED TRIBUTARY TO HILLIBY CREEK	INTERMITTENT		
Okfuskee	30.63	UNNAMED TRIBUTARY TO HILLIBY CREEK	INTERMITTENT		
Okfuskee	30.85	UNNAMED TRIBUTARY TO HILLIBY CREEK	EPHEMERAL		
Okfuskee	31.10	UNNAMED TRIBUTARY TO HILLIBY CREEK	UNKNOWN		
Okfuskee	31.28	UNNAMED TRIBUTARY TO HILLIBY CREEK	EPHEMERAL		
Okfuskee	31.77	UNNAMED TRIBUTARY TO HILLIBY CREEK	INTERMITTENT		
Okfuskee	32.15	UNNAMED TRIBUTARY TO HILLIBY CREEK	INTERMITTENT		
Okfuskee	32.19	UNNAMED TRIBUTARY TO HILLIBY CREEK	INTERMITTENT		
Okfuskee	32.59	UNNAMED TRIBUTARY TO HILLIBY CREEK	EPHEMERAL		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Okfuskee	32.65	UNNAMED TRIBUTARY TO HILLIBY CREEK	PERENNIAL		
Okfuskee	33.02	UNNAMED TRIBUTARY TO HILLIBY CREEK	EPHEMERAL		
Okfuskee	33.56	UNNAMED POND	UNKNOWN		
Okfuskee	34.18	UNNAMED TRIBUTARY TO NORTH CANADIAN RIVER	INTERMITTENT		
Okfuskee	34.49	UNNAMED TRIBUTARY TO NORTH CANADIAN RIVER	EPHEMERAL		
Okfuskee	35.34	UNNAMED TRIBUTARY TO NORTH CANADIAN RIVER	INTERMITTENT		
Okfuskee	35.82	UNNAMED TRIBUTARY TO NORTH CANADIAN RIVER	UNKNOWN		
Okfuskee	37.17	UNNAMED TRIBUTARY TO NORTH CANADIAN RIVER	INTERMITTENT		
Okfuskee	38.17	UNNAMED TRIBUTARY TO NORTH CANADIAN RIVER	INTERMITTENT		
Okfuskee	38.30	UNNAMED TRIBUTARY TO NORTH CANADIAN RIVER	PERENNIAL		
Okfuskee	38.55	NORTH CANADIAN RIVER	PERENNIAL	Aesthetics, Agriculture, Warm Water Aquatic Community, Industrial and Municipal Process and Cooling Water, Public and Private Water Supply, Primary Body Contact Recreation, Fish Consumption, Sensitive Water Supply	Insufficient Information, Fully Supporting, Not Supporting, Insufficient Information, Insufficient Information, Not Supporting, Not Supporting, Not Assessed

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Okfuskee	38.56	NORTH CANADIAN RIVER	PERENNIAL	AESTHETIC; AGRICULTURE; FISH AND WILDLIFE PROPAGATION-WARM WATER AQUATIC COMMUNITY SUBCATEGORY; FISH CONSUMPTION; PRIMARY BODY CONTACT RECREATION; PUBLIC AND PRIVATE WATER SUPPLY	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED
Seminole	38.58	NORTH CANADIAN RIVER	PERENNIAL	AESTHETIC; AGRICULTURE; FISH AND WILDLIFE PROPAGATION-WARM WATER AQUATIC COMMUNITY SUBCATEGORY; FISH CONSUMPTION; PRIMARY BODY CONTACT RECREATION; PUBLIC AND PRIVATE WATER SUPPLY	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED
Seminole	38.65	UNNAMED TRIBUTARY TO NORTH CANADIAN RIVER	EPHEMERAL		
Seminole	38.68	UNNAMED TRIBUTARY TO NORTH CANADIAN RIVER	INTERMITTENT		
Seminole	39.56	UNNAMED TRIBUTARY TO NORTH CANADIAN RIVER	INTERMITTENT		
Seminole	39.90	UNNAMED TRIBUTARY TO NORTH CANADIAN RIVER	PERENNIAL		
Seminole	41.01	UNNAMED TRIBUTARY TO	EPHEMERAL		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
		NORTH CANADIAN RIVER			
Seminole	41.72	UNNAMED TRIBUTARY TO SAND CREEK	EPHEMERAL		
Seminole	41.86	UNNAMED TRIBUTARY TO SAND CREEK	INTERMITTENT		
Seminole	41.97	UNNAMED TRIBUTARY TO SAND CREEK	INTERMITTENT		
Seminole	42.33	UNNAMED TRIBUTARY TO SAND CREEK	INTERMITTENT		
Seminole	43.11	UNNAMED TRIBUTARY TO SAND CREEK	INTERMITTENT		
Seminole	43.51	UNNAMED TRIBUTARY TO SAND CREEK	INTERMITTENT		
Seminole	43.53	SAND CREEK	PERENNIAL	AESTHETIC; AGRICULTURE; FISH AND WILDLIFE PROPAGATION-HABITAT LIMITED AQUATIC COMMUNITY SUBCATEGORY; FISH CONSUMPTION; SECONDARY BODY CONTACT RECREATION	INSUFFICIENT INFORMATION; NOT SUPPORTING; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED
Seminole	44.67	UNNAMED TRIBUTARY TO SAND CREEK	INTERMITTENT		
Seminole	46.09	UNNAMED TRIBUTARY TO LITTLE WEWOKA CREEK	SEASONAL		
Seminole	46.24	UNNAMED TRIBUTARY TO LITTLE WEWOKA CREEK	INTERMITTENT		
Seminole	46.44	UNNAMED TRIBUTARY TO LITTLE	INTERMITTENT		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
		WEWOKA CREEK			
Seminole	46.82	UNNAMED TRIBUTARY TO LITTLE WEWOKA CREEK	PERENNIAL		
Seminole	47.29	UNNAMED TRIBUTARY TO LITTLE WEWOKA CREEK	PERENNIAL		
Seminole	47.95	LITTLE WEWOKA CREEK	PERENNIAL	AESTHETIC; AGRICULTURE; FISH AND WILDLIFE PROPAGATION-WARM WATER AQUATIC COMMUNITY SUBCATEGORY; FISH CONSUMPTION; PRIMARY BODY CONTACT RECREATION; PUBLIC AND PRIVATE WATER SUPPLY	FULLY SUPPORTING; FULLY SUPPORTING; NOT SUPPORTING; NOT ASSESSED; FULLY SUPPORTING; INSUFFICIENT INFORMATION
Seminole	48.95	UNNAMED POND	PERENNIAL		
Seminole	49.19	UNNAMED TRIBUTARY TO LITTLE WEWOKA CREEK	INTERMITTENT		
Seminole	49.25	UNNAMED TRIBUTARY TO LITTLE WEWOKA CREEK	INTERMITTENT		
Seminole	50.01	UNNAMED TRIBUTARY TO LITTLE WEWOKA CREEK	PERENNIAL		
Seminole	50.06	UNNAMED TRIBUTARY TO LITTLE WEWOKA CREEK	PERENNIAL		
Seminole	50.11	UNNAMED TRIBUTARY TO LITTLE WEWOKA CREEK	EPHEMERAL		
Seminole	52.44	UNNAMED TRIBUTARY TO LONG GEORGE CREEK	PERENNIAL		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Seminole	52.53	UNNAMED TRIBUTARY TO LONG GEORGE CREEK	INTERMITTENT		
Seminole	52.60	UNNAMED TRIBUTARY TO LONG GEORGE CREEK	INTERMITTENT		
Seminole	52.66	UNNAMED TRIBUTARY TO LONG GEORGE CREEK	INTERMITTENT		
Seminole	57.90	UNNAMED TRIBUTARY TO WEWOKA CREEK	EPHEMERAL		
Seminole	58.05	UNNAMED TRIBUTARY TO WEWOKA CREEK	EPHEMERAL		
Seminole	58.21	UNNAMED TRIBUTARY TO WEWOKA CREEK	EPHEMERAL		
Seminole	58.70	WEWOKA CREEK	PERENNIAL	AESTHETIC; AGRICULTURE; EMERGENCY WATER SUPPLY; FISH AND WILDLIFE PROPAGATION-HABITAT LIMITED AQUATIC COMMUNITY SUBCATEGORY; FISH CONSUMPTION; PRIMARY BODY CONTACT RECREATION; PUBLIC AND PRIVATE WATER SUPPLY	INSUFFICIENT INFORMATION; NOT SUPPORTING; FULLY SUPPORTING; NOT SUPPORTING; NOT ASSESSED; NOT SUPPORTING; INSUFFICIENT INFORMATION
Hughes	59.84	JACOBS CREEK	PERENNIAL	AESTHETIC; AGRICULTURE; FISH AND WILDLIFE PROPAGATION-WARM WATER AQUATIC COMMUNITY SUBCATEGORY; FISH	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
				CONSUMPTION; PRIMARY BODY CONTACT RECREATION	
Hughes	59.98	UNNAMED TRIBUTARY TO JACOBS CREEK	EPHEMERAL		
Hughes	60.28	JACOBS CREEK	PERENNIAL	AESTHETIC; AGRICULTURE; FISH AND WILDLIFE PROPAGATION-WARM WATER AQUATIC COMMUNITY SUBCATEGORY; FISH CONSUMPTION; PRIMARY BODY CONTACT RECREATION	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED
Hughes	60.33	JACOBS CREEK	PERENNIAL	AESTHETIC; AGRICULTURE; FISH AND WILDLIFE PROPAGATION-WARM WATER AQUATIC COMMUNITY SUBCATEGORY; FISH CONSUMPTION; PRIMARY BODY CONTACT RECREATION	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED
Hughes	60.36	UNNAMED TRIBUTARY TO JACOBS CREEK	INTERMITTENT		
Hughes	62.42	UNNAMED TRIBUTARY TO	INTERMITTENT		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
		JACOBS CREEK			
Hughes	63.21	UNNAMED TRIBUTARY TO JACOBS CREEK	PERENNIAL		
Hughes	64.79	UNNAMED TRIBUTARY TO BIRD CREEK	SEASONAL		
Hughes	64.84	UNNAMED TRIBUTARY TO BIRD CREEK	SEASONAL		
Hughes	65.19	UNNAMED TRIBUTARY TO BIRD CREEK	INTERMITTENT		
Hughes	65.59	UNNAMED TRIBUTARY TO BIRD CREEK	EPHEMERAL		
Hughes	65.73	UNNAMED TRIBUTARY TO BIRD CREEK	INTERMITTENT		
Hughes	66.01	UNNAMED TRIBUTARY TO BIRD CREEK	INTERMITTENT		
Hughes	66.11	UNNAMED TRIBUTARY TO BIRD CREEK	INTERMITTENT		
Hughes	66.68	UNNAMED TRIBUTARY TO BIRD CREEK	INTERMITTENT		
Hughes	66.78	UNNAMED TRIBUTARY TO BIRD CREEK	PERENNIAL	Aesthetic, Agriculture, Habitat Limited Aquatic Community, Industrial and Municipal Process and Cooling Water, Secondary Body Contact Recreation, Fish Consumption	Insufficient Information, Insufficient Information, Not Supporting, Insufficient Information, Insufficient Information, Not Assessed
Hughes	66.94	UNNAMED TRIBUTARY TO BIRD	EPHEMERAL		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
		CREEK			
Hughes	67.22	BIRD CREEK	PERENNIAL	AESTHETIC; AGRICULTURE; FISH AND WILDLIFE PROPAGATION-HABITAT LIMITED AQUATIC COMMUNITY SUBCATEGORY; FISH CONSUMPTION; SECONDARY BODY CONTACT RECREATION	INSUFFICIENT INFORMATION; FULLY SUPPORTING; FULLY SUPPORTING; NOT ASSESSED; FULLY SUPPORTING
Hughes	67.26	UNNAMED TRIBUTARY TO BIRD CREEK	EPHEMERAL		
Hughes	67.30	UNNAMED TRIBUTARY TO BIRD CREEK	INTERMITTENT		
Hughes	67.71	UNNAMED TRIBUTARY TO BIRD CREEK	INTERMITTENT		
Hughes	68.58	UNNAMED POND	UNKNOWN		
Hughes	68.92	UNNAMED TRIBUTARY TO LITTLE RIVER	EPHEMERAL		
Hughes	69.39	UNNAMED TRIBUTARY TO LITTLE RIVER	SEASONAL		
Hughes	69.81	UNNAMED TRIBUTARY TO LITTLE RIVER	SEASONAL		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Hughes	70.38	LITTLE RIVER	PERENNIAL	AESTHETIC; AGRICULTURE; FISH AND WILDLIFE PROPAGATION-WARM WATER AQUATIC COMMUNITY SUBCATEGORY; FISH CONSUMPTION; PRIMARY BODY CONTACT RECREATION; PUBLIC AND PRIVATE WATER SUPPLY	INSUFFICIENT INFORMATION; FULLY SUPPORTING; NOT SUPPORTING; NOT SUPPORTING; NOT SUPPORTING; INSUFFICIENT INFORMATION
Hughes	70.92	UNNAMED TRIBUTARY TO LITTLE RIVER	INTERMITTENT		
Hughes	72.95	UNNAMED TRIBUTARY TO LITTLE RIVER	PERENNIAL		
Hughes	74.05	CANADIAN RIVER	PERENNIAL	AESTHETIC; AGRICULTURE; FISH AND WILDLIFE PROPAGATION-WARM WATER AQUATIC COMMUNITY SUBCATEGORY; FISH CONSUMPTION; PRIMARY BODY CONTACT RECREATION; PUBLIC AND PRIVATE WATER SUPPLY	INSUFFICIENT INFORMATION; FULLY SUPPORTING; NOT SUPPORTING; NOT SUPPORTING; NOT SUPPORTING; INSUFFICIENT INFORMATION

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Hughes	74.74	UNNAMED TRIBUTARY TO CANADIAN RIVER	PERENNIAL	AESTHETIC; AGRICULTURE; FISH AND WILDLIFE PROPAGATION-WARM WATER AQUATIC COMMUNITY SUBCATEGORY; FISH CONSUMPTION; PRIMARY BODY CONTACT RECREATION	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED
Hughes	78.37	UNNAMED TRIBUTARY TO BIG CREEK	INTERMITTENT	AESTHETIC; AGRICULTURE; FISH AND WILDLIFE PROPAGATION-WARM WATER AQUATIC COMMUNITY SUBCATEGORY; FISH CONSUMPTION; PRIMARY BODY CONTACT RECREATION	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED
Hughes	78.90	UNNAMED TRIBUTARY TO BIG SANDY CREEK	EPHEMERAL		
Hughes	79.56	UNNAMED TRIBUTARY TO BIG SANDY CREEK	PERENNIAL		
Hughes	79.56	UNNAMED TRIBUTARY TO BIG SANDY CREEK	PERENNIAL		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Hughes	80.17	UNNAMED TRIBUTARY TO BIG SANDY CREEK	PERENNIAL	AESTHETIC; AGRICULTURE; FISH AND WILDLIFE PROPAGATION-WARM WATER AQUATIC COMMUNITY SUBCATEGORY; FISH CONSUMPTION; PRIMARY BODY CONTACT RECREATION	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED
Hughes	80.17	UNNAMED TRIBUTARY TO BIG SANDY CREEK	PERENNIAL		
Hughes	80.92	UNNAMED TRIBUTARY TO BIG SANDY CREEK	EPHEMERAL		
Hughes	81.48	UNNAMED TRIBUTARY TO MUDDY BOGGY CREEK	EPHEMERAL		
Hughes	81.70	UNNAMED TRIBUTARY TO MUDDY BOGGY CREEK	EPHEMERAL		
Hughes	81.75	UNNAMED TRIBUTARY TO MUDDY BOGGY CREEK	EPHEMERAL		
Hughes	81.96	UNNAMED TRIBUTARY TO MUDDY BOGGY CREEK	INTERMITTENT		
Hughes	82.00	UNNAMED TRIBUTARY TO MUDDY BOGGY CREEK	EPHEMERAL		
Hughes	82.14	UNNAMED TRIBUTARY TO MUDDY BOGGY CREEK	INTERMITTENT		
Hughes	82.33	UNNAMED TRIBUTARY TO MUDDY BOGGY CREEK	INTERMITTENT		
Hughes	82.95	UNNAMED TRIBUTARY TO BIG SANDY CREEK	INTERMITTENT		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Hughes	83.82	UNNAMED TRIBUTARY TO MUDDY BOGGY CREEK	EPHEMERAL		
Hughes	84.59	UNNAMED TRIBUTARY TO MUDDY BOGGY CREEK	EPHEMERAL		
Hughes	84.98	UNNAMED TRIBUTARY TO MUDDY BOGGY CREEK	N/A		
Hughes	85.58	UNNAMED TRIBUTARY TO MUDDY BOGGY CREEK	EPHEMERAL		
Hughes	85.73	UNNAMED TRIBUTARY TO MUDDY BOGGY CREEK	EPHEMERAL		
Hughes	85.75	UNNAMED TRIBUTARY TO MUDDY BOGGY CREEK	EPHEMERAL		
Hughes	85.94	UNNAMED TRIBUTARY TO MUDDY BOGGY CREEK	EPHEMERAL		
Hughes	85.94	UNNAMED TRIBUTARY TO MUDDY BOGGY CREEK	EPHEMERAL		
Coal	86.77	UNNAMED TRIBUTARY TO MUDDY BOGGY CREEK	EPHEMERAL		
Coal	87.05	UNNAMED POND	UNKNOWN		
Coal	87.34	MUDDY BOGGY CREEK	PERENNIAL	AESTHETIC; AGRICULTURE; FISH AND WILDLIFE PROPAGATION-WARM WATER AQUATIC COMMUNITY SUBCATEGORY; FISH CONSUMPTION; PRIMARY BODY CONTACT RECREATION; PUBLIC AND PRIVATE WATER SUPPLY	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Coal	87.77	UNNAMED TRIBUTARY TO MUDDY BOGGY CREEK	EPHEMERAL		
Coal	87.79	UNNAMED TRIBUTARY TO MUDDY BOGGY CREEK	EPHEMERAL		
Coal	87.81	UNNAMED TRIBUTARY TO MUDDY BOGGY CREEK	EPHEMERAL		
Coal	88.29	UNNAMED TRIBUTARY TO MUDDY BOGGY CREEK	EPHEMERAL		
Coal	88.78	UNNAMED TRIBUTARY TO MUDDY BOGGY CREEK	EPHEMERAL		
Coal	88.90	UNNAMED TRIBUTARY TO MUDDY BOGGY CREEK	EPHEMERAL		
Coal	89.86	UNNAMED TRIBUTARY TO SANDY CREEK	EPHEMERAL		
Coal	89.92	UNNAMED TRIBUTARY TO SANDY CREEK	EPHEMERAL		
Coal	90.42	UNNAMED TRIBUTARY TO SANDY CREEK	EPHEMERAL		
Coal	90.64	UNNAMED POND	PERENNIAL		
Coal	91.09	UNNAMED TRIBUTARY TO SANDY CREEK	INTERMITTENT	AESTHETIC; AGRICULTURE; FISH AND WILDLIFE PROPAGATION-WARM WATER AQUATIC COMMUNITY SUBCATEGORY; FISH CONSUMPTION; PRIMARY BODY CONTACT RECREATION	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED
Coal	91.19	UNNAMED TRIBUTARY TO SANDY	N/A		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
		CREEK			
Coal	92.21	UNNAMED TRIBUTARY TO LEADER CREEK	EPHEMERAL		
Coal	92.52	UNNAMED TRIBUTARY TO LEADER CREEK	EPHEMERAL		
Coal	92.75	UNNAMED TRIBUTARY TO LEADER CREEK	EPHEMERAL		
Coal	92.81	UNNAMED TRIBUTARY TO LEADER CREEK	EPHEMERAL		
Coal	94.29	UNNAMED TRIBUTARY TO TURKEY CREEK	EPHEMERAL		
Coal	94.34	UNNAMED TRIBUTARY TO TURKEY CREEK	INTERMITTENT		
Coal	94.36	UNNAMED TRIBUTARY TO TURKEY CREEK	EPHEMERAL		
Coal	94.51	UNNAMED TRIBUTARY TO TURKEY CREEK	INTERMITTENT		
Coal	95.02	UNNAMED TRIBUTARY TO TURKEY CREEK	PERENNIAL	AESTHETIC; AGRICULTURE; FISH AND WILDLIFE PROPAGATION-WARM WATER AQUATIC COMMUNITY SUBCATEGORY; FISH CONSUMPTION; PRIMARY BODY CONTACT RECREATION	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED
Coal	95.63	UNNAMED TRIBUTARY TO TURKEY CREEK	EPHEMERAL		
Coal	95.94	UNNAMED TRIBUTARY TO	EPHEMERAL		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
		TURKEY CREEK			
Coal	96.14	UNNAMED TRIBUTARY TO TURKEY CREEK	PERENNIAL		
Coal	97.20	UNNAMED TRIBUTARY TO PEACH CREEK	EPHEMERAL		
Coal	97.22	UNNAMED TRIBUTARY TO PEACH CREEK	EPHEMERAL		
Coal	97.60	PEACH CREEK	INTERMITTENT	AESTHETIC; AGRICULTURE; FISH AND WILDLIFE PROPAGATION-WARM WATER AQUATIC COMMUNITY SUBCATEGORY; FISH CONSUMPTION; PRIMARY BODY CONTACT RECREATION	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED
Coal	99.19	UNNAMED TRIBUTARY TO OWL CREEK	EPHEMERAL		
Coal	99.40	OWL CREEK	EPHEMERAL	AESTHETIC; AGRICULTURE; FISH AND WILDLIFE PROPAGATION-WARM WATER AQUATIC COMMUNITY SUBCATEGORY; FISH CONSUMPTION; PRIMARY BODY CONTACT RECREATION	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED
Coal	99.55	UNNAMED TRIBUTARY TO OWL CREEK	EPHEMERAL		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Coal	100.50	UNNAMED TRIBUTARY TO OWL CREEK	INTERMITTENT		
Coal	100.52	UNNAMED TRIBUTARY TO OWL CREEK	EPHEMERAL		
Coal	101.97	UNNAMED TRIBUTARY TO LITTLE CANEY BOGGY CREEK	INTERMITTENT		
Coal	102.25	UNNAMED TRIBUTARY TO LITTLE CANEY BOGGY CREEK	PERENNIAL		
Coal	102.33	UNNAMED TRIBUTARY TO LITTLE CANEY BOGGY CREEK	EPHEMERAL		
Coal	102.42	UNNAMED TRIBUTARY TO LITTLE CANEY BOGGY CREEK	EPHEMERAL		
Coal	102.69	UNNAMED TRIBUTARY TO LITTLE CANEY BOGGY CREEK	PERENNIAL	AESTHETIC; AGRICULTURE; FISH AND WILDLIFE PROPAGATION-WARM WATER AQUATIC COMMUNITY SUBCATEGORY; FISH CONSUMPTION; PRIMARY BODY CONTACT RECREATION	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED
Coal	102.86	UNNAMED TRIBUTARY TO LITTLE CANEY BOGGY CREEK	INTERMITTENT		
Coal	103.11	UNNAMED TRIBUTARY TO LITTLE CANEY BOGGY CREEK	EPHEMERAL		
Coal	103.18	UNNAMED TRIBUTARY TO LITTLE CANEY BOGGY CREEK	EPHEMERAL		
Coal	103.72	UNNAMED TRIBUTARY TO LITTLE CANEY BOGGY CREEK	INTERMITTENT		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Coal	104.83	UNNAMED TRIBUTARY TO LITTLE CANEY BOGGY CREEK	EPHEMERAL		
Coal	104.87	UNNAMED TRIBUTARY TO LITTLE CANEY BOGGY CREEK	EPHEMERAL		
Coal	105.17	UNNAMED TRIBUTARY TO LITTLE CANEY BOGGY CREEK	EPHEMERAL		
Coal	105.22	UNNAMED TRIBUTARY TO LITTLE CANEY BOGGY CREEK	INTERMITTENT		
Coal	107.76	UNNAMED TRIBUTARY TO BRIER CREEK	INTERMITTENT		
Coal	107.94	UNNAMED TRIBUTARY TO BRIER CREEK	EPHEMERAL		
Coal	109.03	UNNAMED TRIBUTARY TO COAL CREEK	INTERMITTENT		
Coal	111.06	UNNAMED TRIBUTARY TO COAL CREEK	PERENNIAL		
Coal	111.54	UNNAMED TRIBUTARY TO COAL CREEK	INTERMITTENT		
Coal	112.85	UNNAMED TRIBUTARY TO FRENCH HENRY CREEK	INTERMITTENT		
Atoka	114.76	UNNAMED TRIBUTARY TO FRENCH HENRY CREEK	INTERMITTENT		
Atoka	114.97	UNNAMED TRIBUTARY TO FRENCH HENRY CREEK	INTERMITTENT	AESTHETIC; AGRICULTURE; FISH AND WILDLIFE PROPAGATION-WARM WATER AQUATIC COMMUNITY SUBCATEGORY; FISH CONSUMPTION; PRIMARY	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
				BODY CONTACT RECREATION	
Atoka	115.06	UNNAMED TRIBUTARY TO FRENCH HENRY CREEK	INTERMITTENT		
Atoka	115.38	UNNAMED TRIBUTARY TO FRENCH HENRY CREEK	EPHEMERAL		
Atoka	116.76	UNNAMED TRIBUTARY TO MUDDY BOGGY CREEK	INTERMITTENT		
Atoka	117.20	UNNAMED TRIBUTARY TO MUDDY BOGGY CREEK	EPHEMERAL		
Atoka	117.42	UNNAMED TRIBUTARY TO MUDDY BOGGY CREEK	EPHEMERAL		
Atoka	119.10	UNNAMED TRIBUTARY TO FRONTERHOUSE CREEK	INTERMITTENT		
Atoka	119.15	UNNAMED TRIBUTARY TO FRONTERHOUSE CREEK	PERENNIAL		
Atoka	119.18	UNNAMED TRIBUTARY TO FRONTERHOUSE CREEK	EPHEMERAL		
Atoka	119.89	UNNAMED TRIBUTARY TO FRONTERHOUSE CREEK	INTERMITTENT		
Atoka	120.05	UNNAMED TRIBUTARY TO FRONTERHOUSE CREEK	EPHEMERAL		
Atoka	120.57	UNNAMED TRIBUTARY TO FRONTERHOUSE CREEK	INTERMITTENT		
Atoka	121.05	UNNAMED TRIBUTARY TO	EPHEMERAL		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
		FRONTERHOUSE CREEK			
Atoka	121.85	UNNAMED TRIBUTARY TO FRONTERHOUSE CREEK	EPHEMERAL		
Atoka	121.97	UNNAMED TRIBUTARY TO FRONTERHOUSE CREEK	EPHEMERAL		
Atoka	122.31	UNNAMED TRIBUTARY TO FRONTERHOUSE CREEK	EPHEMERAL		
Atoka	122.57	FRONTERHOUSE CREEK	PERENNIAL	AESTHETIC; AGRICULTURE; FISH AND WILDLIFE PROPAGATION-WARM WATER AQUATIC COMMUNITY SUBCATEGORY; FISH CONSUMPTION; PRIMARY BODY CONTACT RECREATION	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED
Atoka	123.08	UNNAMED TRIBUTARY TO FRONTERHOUSE CREEK	PERENNIAL		
Atoka	123.32	UNNAMED TRIBUTARY TO FRONTERHOUSE CREEK	EPHEMERAL		
Atoka	123.67	UNNAMED TRIBUTARY TO FRONTERHOUSE CREEK	PERENNIAL		
Atoka	124.08	UNNAMED TRIBUTARY TO FRONTERHOUSE CREEK	PERENNIAL		
Atoka	125.10	UNNAMED POND	UNKNOWN		
Atoka	125.62	UNNAMED TRIBUTARY TO CLEAR BOGGY CREEK	PERENNIAL		
Atoka	125.71	UNNAMED TRIBUTARY TO CLEAR BOGGY CREEK	EPHEMERAL		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Atoka	125.76	UNNAMED TRIBUTARY TO CLEAR BOGGY CREEK	EPHEMERAL		
Atoka	126.20	UNNAMED TRIBUTARY TO CLEAR BOGGY CREEK	PERENNIAL		
Atoka	126.89	CLEAR BOGGY CREEK	PERENNIAL	AESTHETIC; AGRICULTURE; FISH AND WILDLIFE PROPAGATION-WARM WATER AQUATIC COMMUNITY SUBCATEGORY; FISH CONSUMPTION; PRIMARY BODY CONTACT RECREATION; PUBLIC AND PRIVATE WATER SUPPLY	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED
Atoka	126.94	UNNAMED TRIBUTARY TO CLEAR BOGGY CREEK	EPHEMERAL		
Atoka	127.09	UNNAMED TRIBUTARY TO CLEAR BOGGY CREEK	PERENNIAL		
Atoka	127.26	UNNAMED TRIBUTARY TO CLEAR BOGGY CREEK	PERENNIAL		
Atoka	128.51	UNNAMED TRIBUTARY TO CLEAR BOGGY CREEK	INTERMITTENT		
Atoka	128.92	UNNAMED TRIBUTARY TO CLEAR BOGGY CREEK	INTERMITTENT		
Atoka	129.09	UNNAMED TRIBUTARY TO CLEAR BOGGY CREEK	INTERMITTENT		
Atoka	129.32	UNNAMED TRIBUTARY TO CLEAR BOGGY CREEK	EPHEMERAL		
Atoka	129.34	UNNAMED TRIBUTARY TO CLEAR	EPHEMERAL		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
		BOGGY CREEK			
Atoka	129.38	UNNAMED TRIBUTARY TO CLEAR BOGGY CREEK	EPHEMERAL		
Atoka	129.40	UNNAMED TRIBUTARY TO CLEAR BOGGY CREEK	INTERMITTENT		
Atoka	129.45	UNNAMED TRIBUTARY TO CLEAR BOGGY CREEK	PERENNIAL		
Atoka	129.91	UNNAMED TRIBUTARY TO CLEAR BOGGY CREEK	UNKNOWN		
Atoka	130.09	UNNAMED TRIBUTARY TO CLEAR BOGGY CREEK	UNKNOWN		
Atoka	130.91	UNNAMED TRIBUTARY TO COWPEN CREEK	UNKNOWN		
Atoka	131.34	COWPEN CREEK	PERENNIAL	AESTHETIC; AGRICULTURE; FISH AND WILDLIFE PROPAGATION-WARM WATER AQUATIC COMMUNITY SUBCATEGORY; FISH CONSUMPTION; PRIMARY BODY CONTACT RECREATION	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED
Atoka	131.54	UNNAMED TRIBUTARY TO COWPEN CREEK	EPHEMERAL		
Atoka	132.54	UNNAMED TRIBUTARY TO LONG BRANCH CREEK	EPHEMERAL		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Atoka	132.90	LONG BRANCH CREEK	INTERMITTENT	AESTHETIC; AGRICULTURE; FISH AND WILDLIFE PROPAGATION-WARM WATER AQUATIC COMMUNITY SUBCATEGORY; FISH CONSUMPTION; PRIMARY BODY CONTACT RECREATION	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED
Bryan	133.12	UNNAMED TRIBUTARY TO LONG BRANCH CREEK	EPHEMERAL		
Bryan	133.24	UNNAMED TRIBUTARY TO LONG BRANCH CREEK	PERENNIAL		
Bryan	134.74	UNNAMED TRIBUTARY TO PINE CREEK	INTERMITTENT		
Bryan	135.43	PINE CREEK	UNKNOWN	AESTHETIC; AGRICULTURE; FISH AND WILDLIFE PROPAGATION-WARM WATER AQUATIC COMMUNITY SUBCATEGORY; FISH CONSUMPTION; PRIMARY BODY CONTACT RECREATION	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED
Bryan	136.97	UNNAMED TRIBUTARY TO STRAIGHT CREEK	EPHEMERAL		
Bryan	137.07	UNNAMED TRIBUTARY TO STRAIGHT CREEK	EPHEMERAL		
Bryan	138.13	UNNAMED TRIBUTARY TO	EPHEMERAL		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
		STRAIGHT CREEK			
Bryan	138.15	UNNAMED TRIBUTARY TO STRAIGHT CREEK	INTERMITTENT	AESTHETIC; AGRICULTURE; FISH AND WILDLIFE PROPAGATION-WARM WATER AQUATIC COMMUNITY SUBCATEGORY; FISH CONSUMPTION; PRIMARY BODY CONTACT RECREATION	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED
Bryan	138.39	UNNAMED TRIBUTARY TO STRAIGHT CREEK	INTERMITTENT		
Bryan	139.65	UNNAMED TRIBUTARY TO BOIS D'ARC CREEK	INTERMITTENT		
Bryan	139.66	UNNAMED TRIBUTARY TO BOIS D'ARC CREEK	INTERMITTENT		
Bryan	139.68	UNNAMED TRIBUTARY TO BOIS D'ARC CREEK	INTERMITTENT		
Bryan	141.26	UNNAMED TRIBUTARY TO SULPHUR CREEK	INTERMITTENT		
Bryan	141.66	UNNAMED TRIBUTARY TO SULPHUR CREEK	INTERMITTENT		
Bryan	141.88	UNNAMED TRIBUTARY TO SULPHUR CREEK	EPHEMERAL		
Bryan	142.05	UNNAMED TRIBUTARY TO SULPHUR CREEK	EPHEMERAL		
Bryan	143.43	UNNAMED TRIBUTARY TO RABBIT CREEK	UNKNOWN		
Bryan	144.02	UNNAMED TRIBUTARY TO	EPHEMERAL		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
		RABBIT CREEK			
Bryan	144.33	UNNAMED TRIBUTARY TO RABBIT CREEK	EPHEMERAL		
Bryan	144.68	UNNAMED TRIBUTARY TO WHITEGRASS CREEK	EPHEMERAL		
Bryan	145.82	UNNAMED TRIBUTARY TO WHITEGRASS CREEK	EPHEMERAL		
Bryan	146.24	UNNAMED TRIBUTARY TO WHITEGRASS CREEK	INTERMITTENT		
Bryan	146.24	UNNAMED TRIBUTARY TO WHITEGRASS CREEK	INTERMITTENT		
Bryan	146.55	UNNAMED TRIBUTARY TO WHITEGRASS CREEK	EPHEMERAL		
Bryan	148.51	UNNAMED TRIBUTARY TO WHITEGRASS CREEK	EPHEMERAL		
Bryan	148.53	UNNAMED TRIBUTARY TO WHITEGRASS CREEK	EPHEMERAL		
Bryan	151.36	UNNAMED TRIBUTARY TO WHITEGRASS CREEK	EPHEMERAL		
Bryan	151.52	UNNAMED TRIBUTARY TO WHITEGRASS CREEK	EPHEMERAL		
Bryan	152.65	UNNAMED TRIBUTARY TO RED RIVER	EPHEMERAL		
Bryan	152.83	UNNAMED TRIBUTARY TO RED RIVER	EPHEMERAL		
Bryan	153.46	UNNAMED TRIBUTARY TO RED RIVER	INTERMITTENT		
Bryan	153.85	UNNAMED TRIBUTARY TO RED RIVER	INTERMITTENT		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Bryan	154.07	UNNAMED TRIBUTARY TO RED RIVER	INTERMITTENT		
Bryan	154.42	UNNAMED TRIBUTARY TO RED RIVER	INTERMITTENT		
Bryan	154.50	UNNAMED TRIBUTARY TO RED RIVER	EPHEMERAL		
Bryan	154.53	UNNAMED TRIBUTARY TO RED RIVER	EPHEMERAL		
Bryan	154.70	UNNAMED TRIBUTARY TO RED RIVER	EPHEMERAL		
Bryan	154.71	UNNAMED TRIBUTARY TO RED RIVER	INTERMITTENT		
Bryan	154.89	UNNAMED TRIBUTARY TO RED RIVER	EPHEMERAL		
Bryan	154.90	UNNAMED TRIBUTARY TO RED RIVER	EPHEMERAL		
Bryan	154.96	UNNAMED TRIBUTARY TO RED RIVER	EPHEMERAL		
Bryan	155.57	UNNAMED TRIBUTARY TO RED RIVER	PERENNIAL		
Bryan	155.68	RED RIVER	PERENNIAL	AESTHETIC; AGRICULTURE; FISH AND WILDLIFE PROPAGATION-WARM WATER AQUATIC COMMUNITY SUBCATEGORY; FISH CONSUMPTION; PRIMARY BODY CONTACT RECREATION; PUBLIC AND	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
				PRIVATE WATER SUPPLY	
Bryan	155.73	RED RIVER	PERENNIAL	AESTHETIC; AGRICULTURE; FISH AND WILDLIFE PROPAGATION-WARM WATER AQUATIC COMMUNITY SUBCATEGORY; FISH CONSUMPTION; PRIMARY BODY CONTACT RECREATION; PUBLIC AND PRIVATE WATER SUPPLY	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED
<b>Texas</b>					
Fannin	155.80	RED RIVER	PERENNIAL	AESTHETIC; AGRICULTURE; FISH AND WILDLIFE PROPAGATION-WARM WATER AQUATIC COMMUNITY SUBCATEGORY; FISH CONSUMPTION; PRIMARY BODY CONTACT RECREATION; PUBLIC AND PRIVATE WATER SUPPLY	NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED; NOT ASSESSED
Fannin	157.73	UNNAMED TRIBUTARY TO RED	INTERMITTENT		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
		RIVER			
Fannin	157.73	UNNAMED TRIBUTARY TO RED RIVER	INTERMITTENT		
Fannin	158.43	UNNAMED TRIBUTARY TO RED RIVER	INTERMITTENT		
Fannin	158.53	UNNAMED TRIBUTARY TO RED RIVER	PERENNIAL		
Fannin	161.61	UNNAMED WATERBODY	N/A		
Fannin	161.69	UNNAMED WATERBODY	N/A		
Fannin	162.02	BOIS DARC CREEK	PERENNIAL		
Lamar	162.03	BOIS DARC CREEK	PERENNIAL		
Lamar	162.03	BOIS DARC CREEK	PERENNIAL	CONTACT RECREATION; FISH CONSUMPTION; INTERMEDIATE AQUATIC LIFE	FULLY SUPPORTING; FULLY SUPPORTING; FULLY SUPPORTING
Lamar	162.96	UNNAMED TRIBUTARY TO BOIS DARC CREEK	INTERMITTENT		
Lamar	163.06	UNNAMED TRIBUTARY TO BOIS DARC CREEK	INTERMITTENT		
Lamar	163.48	UNNAMED TRIBUTARY TO BOIS DARC CREEK	INTERMITTENT		
Lamar	163.73	UNNAMED TRIBUTARY TO BOIS DARC CREEK	EPHEMERAL		
Lamar	163.79	UNNAMED TRIBUTARY TO BOIS DARC CREEK	EPHEMERAL		
Lamar	163.84	UNNAMED TRIBUTARY TO BOIS DARC CREEK	EPHEMERAL		
Lamar	163.95	UNNAMED TRIBUTARY TO BOIS	EPHEMERAL		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
		DARC CREEK			
Lamar	163.97	UNNAMED TRIBUTARY TO BOIS DARC CREEK	EPHEMERAL		
Lamar	164.62	UNNAMED TRIBUTARY TO BOIS DARC CREEK	INTERMITTENT		
Lamar	164.62	UNNAMED TRIBUTARY TO BOIS DARC CREEK	EPHEMERAL		
Lamar	164.81	UNNAMED TRIBUTARY TO BOIS DARC CREEK	EPHEMERAL		
Lamar	165.28	UNNAMED TRIBUTARY TO SLOUGH CREEK	EPHEMERAL		
Lamar	165.45	UNNAMED TRIBUTARY TO SLOUGH CREEK	EPHEMERAL		
Lamar	165.65	UNNAMED TRIBUTARY TO SLOUGH CREEK	PERENNIAL		
Lamar	165.70	UNNAMED TRIBUTARY TO SLOUGH CREEK	PERENNIAL		
Lamar	165.73	UNNAMED TRIBUTARY TO SLOUGH CREEK	INTERMITTENT		
Lamar	166.16	SLOUGH CREEK	PERENNIAL		
Lamar	166.80	UNNAMED TRIBUTARY TO SLOUGH CREEK	UNKNOWN		
Lamar	167.69	UNNAMED WATERBODY	PERENNIAL		
Lamar	168.32	UNNAMED TRIBUTARY TO SHOOTER CREEK	EPHEMERAL		
Lamar	168.33	UNNAMED TRIBUTARY TO SHOOTER CREEK	EPHEMERAL		
Lamar	168.33	UNNAMED TRIBUTARY TO	EPHEMERAL		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
		SHOOTER CREEK			
Lamar	168.84	UNNAMED TRIBUTARY TO SHOOTER CREEK	INTERMITTENT		
Lamar	169.29	SHOOTER CREEK	PERENNIAL		
Lamar	169.48	COLLINS CREEK	INTERMITTENT		
Lamar	170.30	UNNAMED TRIBUTARY TO SANDERS CREEK	EPHEMERAL		
Lamar	170.39	UNNAMED TRIBUTARY TO SANDERS CREEK	EPHEMERAL		
Lamar	170.90	UNNAMED TRIBUTARY TO SANDERS CREEK	PERENNIAL		
Lamar	171.16	SANDERS CREEK	PERENNIAL		
Lamar	172.71	COTTONWOOD CREEK	PERENNIAL		
Lamar	173.41	UNNAMED TRIBUTARY TO COTTONWOOD CREEK	EPHEMERAL		
Lamar	174.16	UNNAMED TRIBUTARY TO DOSS CREEK	EPHEMERAL		
Lamar	174.17	UNNAMED TRIBUTARY TO DOSS CREEK	EPHEMERAL		
Lamar	174.22	UNNAMED TRIBUTARY TO DOSS CREEK	PERENNIAL		
Lamar	174.50	UNNAMED TRIBUTARY TO DOSS CREEK	EPHEMERAL		
Lamar	174.55	UNNAMED TRIBUTARY TO DOSS CREEK	EPHEMERAL		
Lamar	176.07	UNNAMED TRIBUTARY TO DOSS CREEK	UNKNOWN		
Lamar	176.41	UNNAMED TRIBUTARY TO DOSS	INTERMITTENT		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
		CREEK			
Lamar	177.19	UNNAMED TRIBUTARY TO DOSS CREEK	INTERMITTENT		
Lamar	178.80	UNNAMED TRIBUTARY TO MAXWELL CREEK	EPHEMERAL		
Lamar	179.41	UNNAMED TRIBUTARY TO MAXWELL CREEK	EPHEMERAL		
Lamar	180.18	UNNAMED TRIBUTARY TO MAXWELL CREEK	INTERMITTENT		
Lamar	180.92	UNNAMED TRIBUTARY TO MAXWELL CREEK	INTERMITTENT		
Lamar	181.08	UNNAMED TRIBUTARY TO MAXWELL CREEK	INTERMITTENT		
Lamar	182.26	UNNAMED TRIBUTARY TO MAXWELL CREEK	PERENNIAL		
Lamar	183.09	UNNAMED TRIBUTARY TO SLOUGH CREEK	UNKNOWN		
Lamar	184.00	UNNAMED TRIBUTARY TO MALLORY CREEK	INTERMITTENT		
Lamar	184.08	UNNAMED TRIBUTARY TO MALLORY CREEK	EPHEMERAL		
Lamar	185.09	UNNAMED TRIBUTARY TO MALLORY CREEK	EPHEMERAL		
Lamar	186.41	MALLORY CREEK	PERENNIAL		
Lamar	187.51	MALLORY CREEK	PERENNIAL		
Lamar	188.52	UNNAMED TRIBUTARY TO MALLORY CREEK	INTERMITTENT		
Lamar	189.31	JUSTISS CREEK	INTERMITTENT		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Lamar	190.52	UNNAMED TRIBUTARY OF NORTH SULPHUR RIVER	INTERMITTENT		
Lamar	190.52	UNNAMED TRIBUTARY OF NORTH SULPHUR RIVER	INTERMITTENT		
Delta	190.52	UNNAMED TRIBUTARY OF NORTH SULPHUR RIVER	INTERMITTENT		
Delta	190.66	UNNAMED TRIBUTARY OF NORTH SULPHUR RIVER	EPHEMERAL		
Lamar	190.67	UNNAMED TRIBUTARY OF NORTH SULPHUR RIVER	EPHEMERAL		
Lamar	190.75	NORTH SULPHUR RIVER	PERENNIAL		
Delta	190.76	NORTH SULPHUR RIVER	PERENNIAL		
Delta	190.76	NORTH SULPHUR RIVER	PERENNIAL		
Delta	190.79	NORTH SULPHUR RIVER	PERENNIAL	CONTACT RECREATION; FISH CONSUMPTION; INTERMEDIATE AQUATIC LIFE	FULLY SUPPORTING; FULLY SUPPORTING; FULLY SUPPORTING
Delta	190.82	UNNAMED TRIBUTARY OF NORTH SULPHUR RIVER	EPHEMERAL		
Delta	191.05	UNNAMED TRIBUTARY OF NORTH SULPHUR RIVER	EPHEMERAL		
Delta	192.85	UNNAMED TRIBUTARY OF NORTH SULPHUR RIVER	INTERMITTENT		
Delta	193.67	UNNAMED TRIBUTARY OF NORTH SULPHUR RIVER	INTERMITTENT		
Delta	194.24	UNNAMED TRIBUTARY TO LAKE CREEK	EPHEMERAL		
Delta	194.25	UNNAMED TRIBUTARY TO LAKE	INTERMITTENT		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
		CREEK			
Delta	194.26	UNNAMED TRIBUTARY TO LAKE CREEK	EPHEMERAL		
Delta	194.96	UNNAMED TRIBUTARY TO LAKE CREEK	INTERMITTENT		
Delta	195.87	UNNAMED TRIBUTARY TO LAKE CREEK	EPHEMERAL		
Delta	195.91	UNNAMED WATERBODY	PERENNIAL		
Delta	196.37	UNNAMED TRIBUTARY TO LAKE CREEK	EPHEMERAL		
Delta	198.64	UNNAMED WATERBODY	UNKNOWN		
Delta	199.59	EVANS BRANCH	INTERMITTENT		
Delta	199.84	EVANS BRANCH	SEASONAL		
Delta	201.77	SOUTH SULPHUR RIVER	PERENNIAL		
Hopkins	201.78	SOUTH SULPHUR RIVER	PERENNIAL		
Hopkins	202.95	UNNAMED TRIBUTARY TO SOUTH SULPHUR RIVER	INTERMITTENT		
Hopkins	202.95	UNNAMED TRIBUTARY TO SOUTH SULPHUR RIVER	PERENNIAL		
Hopkins	203.40	UNNAMED TRIBUTARY TO SOUTH SULPHUR RIVER	UNKNOWN		
Hopkins	203.76	UNNAMED TRIBUTARY TO SOUTH SULPHUR RIVER	EPHEMERAL		
Hopkins	203.77	UNNAMED TRIBUTARY TO SOUTH SULPHUR RIVER	EPHEMERAL		
Hopkins	203.79	UNNAMED TRIBUTARY TO SOUTH SULPHUR RIVER	EPHEMERAL		
Hopkins	203.95	UNNAMED TRIBUTARY TO	PERENNIAL		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
		SOUTH SULPHUR RIVER			
Hopkins	204.09	UNNAMED TRIBUTARY TO SOUTH SULPHUR RIVER	EPHEMERAL		
Hopkins	204.14	UNNAMED TRIBUTARY TO SOUTH SULPHUR RIVER	EPHEMERAL		
Hopkins	205.58	UNNAMED TRIBUTARY TO WOLF PEN CREEK	EPHEMERAL		
Hopkins	206.60	UNNAMED TRIBUTARY TO WOLF PEN CREEK	UNKNOWN		
Hopkins	207.26	UNNAMED TRIBUTARY TO WOLF PEN CREEK	EPHEMERAL		
Hopkins	207.53	UNNAMED TRIBUTARY TO WOLF PEN CREEK	INTERMITTENT		
Hopkins	207.82	UNNAMED TRIBUTARY TO WOLF PEN CREEK	PERENNIAL		
Hopkins	208.55	UNNAMED TRIBUTARY TO CROSTIMBER CREEK	EPHEMERAL		
Hopkins	209.01	UNNAMED TRIBUTARY TO CROSTIMBER CREEK	EPHEMERAL		
Hopkins	209.93	UNNAMED TRIBUTARY TO CROSTIMBER CREEK	EPHEMERAL		
Hopkins	210.43	UNNAMED TRIBUTARY TO CROSTIMBER CREEK	INTERMITTENT		
Hopkins	211.23	UNNAMED TRIBUTARY TO CROSTIMBER CREEK	INTERMITTENT		
Hopkins	211.25	UNNAMED TRIBUTARY TO CROSTIMBER CREEK	INTERMITTENT		
Hopkins	211.27	UNNAMED TRIBUTARY TO CROSTIMBER CREEK	INTERMITTENT		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Hopkins	211.29	UNNAMED TRIBUTARY TO CROSTIMBER CREEK	INTERMITTENT		
Hopkins	211.29	UNNAMED TRIBUTARY TO CROSTIMBER CREEK	INTERMITTENT		
Hopkins	211.30	UNNAMED TRIBUTARY TO CROSTIMBER CREEK	INTERMITTENT		
Hopkins	212.01	UNNAMED TRIBUTARY TO CROSTIMBER CREEK	INTERMITTENT		
Hopkins	212.08	UNNAMED TRIBUTARY TO CROSTIMBER CREEK	INTERMITTENT		
Hopkins	212.11	CROSTIMBER CREEK	PERENNIAL		
Hopkins	212.30	UNNAMED TRIBUTARY TO CROSTIMBER CREEK	EPHEMERAL		
Hopkins	212.40	UNNAMED TRIBUTARY TO CROSTIMBER CREEK	PERENNIAL		
Hopkins	212.82	WHITE OAK CREEK	PERENNIAL	CONTACT RECREATION; FISH CONSUMPTION; INTERMEDIATE AQUATIC LIFE	FULLY SUPPORTING; FULLY SUPPORTING; PARTIAL
Hopkins	213.74	UNNAMED TRIBUTARY TO WHITE OAK CREEK	INTERMITTENT		
Hopkins	213.75	UNNAMED TRIBUTARY TO WHITE OAK CREEK	INTERMITTENT		
Hopkins	213.78	UNNAMED WATERBODY	INTERMITTENT		
Hopkins	214.05	UNNAMED TRIBUTARY TO WHITE OAK CREEK	INTERMITTENT		
Hopkins	214.11	UNNAMED TRIBUTARY TO WHITE OAK CREEK	INTERMITTENT		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

<b>County</b>	<b>Approximate Milepost</b>	<b>Waterbody Name</b>	<b>Waterbody Type</b>	<b>State Water Quality Classification</b>	<b>Supports Use Designation</b>
Hopkins	214.36	UNNAMED TRIBUTARY TO WHITE OAK CREEK	INTERMITTENT		
Hopkins	214.69	UNNAMED TRIBUTARY TO WHITE OAK CREEK	EPHEMERAL		
Hopkins	215.30	UNNAMED TRIBUTARY TO WHITE OAK CREEK	EPHEMERAL		
Hopkins	216.11	UNNAMED TRIBUTARY TO STOUTS CREEK	EPHEMERAL		
Hopkins	216.71	UNNAMED TRIBUTARY TO STOUTS CREEK	INTERMITTENT		
Hopkins	217.18	UNNAMED TRIBUTARY TO STOUTS CREEK	PERENNIAL		
Hopkins	218.23	STOUTS CREEK	PERENNIAL		
Hopkins	218.29	UNNAMED TRIBUTARY TO STOUTS CREEK	EPHEMERAL		
Hopkins	218.36	UNNAMED TRIBUTARY TO STOUTS CREEK	INTERMITTENT		
Hopkins	219.21	UNNAMED TRIBUTARY TO STOUTS CREEK	INTERMITTENT		
Hopkins	219.79	UNNAMED TRIBUTARY TO GREENWOOD CREEK	EPHEMERAL		
Hopkins	219.82	UNNAMED TRIBUTARY TO GREENWOOD CREEK	EPHEMERAL		
Hopkins	220.08	UNNAMED TRIBUTARY TO GREENWOOD CREEK	EPHEMERAL		
Hopkins	220.37	UNNAMED TRIBUTARY TO GREENWOOD CREEK	INTERMITTENT		
Hopkins	220.45	UNNAMED TRIBUTARY TO GREENWOOD CREEK	INTERMITTENT		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

<b>County</b>	<b>Approximate Milepost</b>	<b>Waterbody Name</b>	<b>Waterbody Type</b>	<b>State Water Quality Classification</b>	<b>Supports Use Designation</b>
Hopkins	220.91	GREENWOOD CREEK	PERENNIAL		
Franklin	223.05	UNNAMED TRIBUTARY TO HUGGINGS CREEK	INTERMITTENT		
Franklin	224.15	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	PERENNIAL		
Franklin	225.03	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	INTERMITTENT		
Franklin	225.38	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	EPHEMERAL		
Franklin	225.42	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	EPHEMERAL		
Franklin	226.04	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	UNKNOWN		
Franklin	226.20	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	EPHEMERAL		
Franklin	226.23	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	EPHEMERAL		
Franklin	226.29	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	EPHEMERAL		
Franklin	226.68	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	PERENNIAL		
Franklin	226.76	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	PERENNIAL		
Franklin	227.52	UNNAMED TRIBUTARY TO BIG CYPRESS CREEK	EPHEMERAL		
Franklin	227.53	UNNAMED TRIBUTARY TO BIG CYPRESS CREEK	EPHEMERAL		
Franklin	227.58	UNNAMED TRIBUTARY TO BIG CYPRESS CREEK	PERENNIAL		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Franklin	227.68	UNNAMED TRIBUTARY TO BIG CYPRESS CREEK	EPHEMERAL		
Franklin	227.91	UNNAMED TRIBUTARY TO BIG CYPRESS CREEK	PERENNIAL		
Franklin	227.95	UNNAMED TRIBUTARY TO BIG CYPRESS CREEK	EPHEMERAL		
Franklin	228.34	UNNAMED TRIBUTARY TO BIG CYPRESS CREEK	PERENNIAL		
Franklin	228.48	UNNAMED TRIBUTARY TO BIG CYPRESS CREEK	N/A		
Franklin	228.86	UNNAMED TRIBUTARY TO BIG CYPRESS CREEK	EPHEMERAL		
Franklin	228.88	UNNAMED TRIBUTARY TO BIG CYPRESS CREEK	INTERMITTENT		
Franklin	230.07	UNNAMED TRIBUTARY TO BRUSHY CREEK	INTERMITTENT		
Franklin	230.41	UNNAMED TRIBUTARY TO BRUSHY CREEK	UNKNOWN		
Franklin	230.42	UNNAMED TRIBUTARY TO BRUSHY CREEK	UNKNOWN		
Franklin	230.89	UNNAMED TRIBUTARY TO BRUSHY CREEK	EPHEMERAL		
Franklin	231.22	UNNAMED TRIBUTARY TO BRUSHY CREEK	EPHEMERAL		
Franklin	231.43	UNNAMED TRIBUTARY TO BRUSHY CREEK	EPHEMERAL		
Franklin	231.60	UNNAMED TRIBUTARY TO BRUSHY CREEK	UNKNOWN		
Franklin	231.85	UNNAMED TRIBUTARY TO	INTERMITTENT		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
		BRUSHY CREEK			
Franklin	232.65	BRUSHY CREEK	PERENNIAL		
Franklin	232.75	UNNAMED TRIBUTARY TO BRUSHY CREEK	PERENNIAL		
Franklin	233.08	UNNAMED TRIBUTARY TO BRUSHY CREEK	PERENNIAL		
Wood	234.13	UNNAMED TRIBUTARY TO BRIARY CREEK	PERENNIAL		
Wood	234.21	BRIARY CREEK	INTERMITTENT		
Wood	234.59	SAND BRANCH	PERENNIAL		
Wood	234.70	UNNAMED TRIBUTARY TO SAND BRANCH	EPHEMERAL		
Wood	235.05	UNNAMED TRIBUTARY TO BRIARY CREEK	PERENNIAL		
Wood	235.54	UNNAMED TRIBUTARY TO BRIARY CREEK	PERENNIAL		
Wood	236.81	UNNAMED TRIBUTARY TO STOUT CREEK	INTERMITTENT		
Wood	238.19	UNNAMED TRIBUTARY TO STOUT CREEK	INTERMITTENT		
Wood	239.45	UNNAMED TRIBUTARY TO CANEY CREEK	INTERMITTENT		
Wood	239.67	UNNAMED TRIBUTARY TO CANEY CREEK	EPHEMERAL		
Wood	241.61	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	EPHEMERAL		
Wood	241.83	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	INTERMITTENT		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Wood	241.86	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	INTERMITTENT		
Wood	242.09	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	EPHEMERAL		
Wood	242.24	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	INTERMITTENT		
Wood	242.71	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	PERENNIAL		
Wood	243.90	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	PERENNIAL		
Wood	244.87	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	PERENNIAL		
Wood	245.44	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	PERENNIAL		
Wood	245.53	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	PERENNIAL		
Wood	246.39	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	UNKNOWN		
Wood	246.62	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	PERENNIAL		
Wood	247.51	CLEAR CREEK	INTERMITTENT		
Wood	248.01	UNNAMED TRIBUTARY TO CLEAR CREEK	PERENNIAL		
Wood	248.60	UNNAMED TRIBUTARY TO CLEAR CREEK	PERENNIAL		
Wood	249.96	HONEY CREEK	INTERMITTENT		
Wood	250.28	UNNAMED TRIBUTARY TO HONEY CREEK	INTERMITTENT		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Wood	252.97	BLUE BRANCH	PERENNIAL		
Wood	253.02	UNNAMED TRIBUTARY TO BLUE BRANCH	INTERMITTENT		
Wood	254.44	NICOLS BRANCH	EPHEMERAL		
Wood	254.85	UNNAMED WATERBODY	UNKNOWN		
Wood	254.89	UNNAMED WATERBODY	UNKNOWN		
Wood	255.17	PERIN BRANCH	PERENNIAL		
Wood	256.07	UNNAMED TRIBUTARY TO BIG SANDY CREEK	INTERMITTENT	Aquatic Life Use, Recreational Use, General Use, Fish Consumption Use, Public Water Supply Use, Oyster Water Use, Overall Use	Fully Supporting, Fully Supporting, Fully Supporting, Not Assessed, Fully Supporting, N/A, Fully Supporting
Upshur	256.92	BIG SANDY CREEK	PERENNIAL	CONTACT RECREATION; DOMESTIC WATER SUPPLY - PUBLIC WATER SUPPLY; FISH CONSUMPTION; INTERMEDIATE AQUATIC LIFE	FULLY SUPPORTING; FULLY SUPPORTING; FULLY SUPPORTING; FULLY SUPPORTING
Upshur	258.35	UNNAMED TRIBUTARY TO BIG SANDY CREEK	INTERMITTENT		
Upshur	258.72	UNNAMED TRIBUTARY TO BIG SANDY CREEK	INTERMITTENT		
Upshur	260.05	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	EPHEMERAL		
Upshur	260.94	UNNAMED TRIBUTARY TO ROGERS CREEK	SEASONAL		
Upshur	261.24	UNNAMED TRIBUTARY TO	INTERMITTENT		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
		ROGERS CREEK			
Upshur	261.55	UNNAMED TRIBUTARY TO SABINE RIVER	PERENNIAL		
Upshur	263.50	SABINE RIVER	PERENNIAL	CONTACT RECREATION; DOMESTIC WATER SUPPLY - PUBLIC WATER SUPPLY; FISH CONSUMPTION; INTERMEDIATE AQUATIC LIFE	FULLY SUPPORTING; FULLY SUPPORTING; FULLY SUPPORTING; FULLY SUPPORTING
Upshur	263.50	SABINE RIVER	PERENNIAL	CONTACT RECREATION; DOMESTIC WATER SUPPLY - PUBLIC WATER SUPPLY; FISH CONSUMPTION; INTERMEDIATE AQUATIC LIFE	FULLY SUPPORTING; FULLY SUPPORTING; FULLY SUPPORTING; FULLY SUPPORTING
Smith	263.51	SABINE RIVER	PERENNIAL	CONTACT RECREATION; DOMESTIC WATER SUPPLY - PUBLIC WATER SUPPLY; FISH CONSUMPTION; INTERMEDIATE AQUATIC LIFE	FULLY SUPPORTING; FULLY SUPPORTING; FULLY SUPPORTING; FULLY SUPPORTING
Smith	263.52	UNNAMED TRIBUTARY TO SABINE RIVER	PERENNIAL		
Smith	263.74	UNNAMED TRIBUTARY TO SABINE RIVER	EPHEMERAL		
Smith	264.09	UNNAMED TRIBUTARY TO SABINE RIVER	INTERMITTENT		
Smith	265.16	UNNAMED TRIBUTARY TO HARRIS CREEK	EPHEMERAL		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

<b>County</b>	<b>Approximate Milepost</b>	<b>Waterbody Name</b>	<b>Waterbody Type</b>	<b>State Water Quality Classification</b>	<b>Supports Use Designation</b>
Smith	265.92	UNNAMED TRIBUTARY TO HARRIS CREEK	EPHEMERAL		
Smith	266.54	UNNAMED TRIBUTARY TO SIMPSON CREEK	EPHEMERAL		
Smith	267.47	UNNAMED TRIBUTARY TO SIMPSON CREEK	INTERMITTENT		
Smith	267.47	UNNAMED TRIBUTARY TO SIMPSON CREEK	UNKNOWN		
Smith	267.89	UNNAMED TRIBUTARY TO SIMPSON CREEK	PERENNIAL		
Smith	268.86	SIMPSON CREEK	PERENNIAL		
Smith	269.42	UNNAMED TRIBUTARY TO SIMPSON CREEK	EPHEMERAL		
Smith	270.67	UNNAMED TRIBUTARY TO SIMPSON CREEK	PERENNIAL		
Smith	270.84	UNNAMED TRIBUTARY TO SIMPSON CREEK	PERENNIAL		
Smith	271.16	UNNAMED TRIBUTARY TO SIMPSON CREEK	INTERMITTENT		
Smith	271.16	UNNAMED TRIBUTARY TO SIMPSON CREEK	INTERMITTENT		
Smith	271.17	UNNAMED TRIBUTARY TO SIMPSON CREEK	INTERMITTENT		
Smith	271.91	UNNAMED TRIBUTARY TO SIMPSON CREEK	INTERMITTENT		
Smith	271.92	UNNAMED TRIBUTARY TO SIMPSON CREEK	EPHEMERAL		
Smith	272.14	UNNAMED TRIBUTARY TO SUNSTROKE CREEK	PERENNIAL		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Smith	273.10	UNNAMED TRIBUTARY TO SUNSTROKE CREEK	EPHEMERAL		
Smith	273.56	UNNAMED TRIBUTARY TO SUNSTROKE CREEK	INTERMITTENT		
Smith	273.82	UNNAMED TRIBUTARY TO SUNSTROKE CREEK	EPHEMERAL		
Smith	274.02	UNNAMED TRIBUTARY TO SUNSTROKE CREEK	EPHEMERAL		
Smith	275.08	UNNAMED TRIBUTARY TO PRAIRIE CREEK	PERENNIAL		
Smith	275.48	UNNAMED ROAD SIDE DITCH	INTERMITTENT		
Smith	275.53	PRAIRIE CREEK	PERENNIAL		
Smith	275.55	UNNAMED TRIBUTARY TO PRAIRIE CREEK	INTERMITTENT		
Smith	277.06	UNNAMED TRIBUTARY TO MUD CREEK	INTERMITTENT		
Smith	277.34	UNNAMED TRIBUTARY TO MUD CREEK	PERENNIAL		
Smith	277.66	UNNAMED TRIBUTARY TO MUD CREEK	PERENNIAL		
Smith	279.73	UNNAMED TRIBUTARY TO MUD CREEK	PERENNIAL		
Smith	280.12	UNNAMED TRIBUTARY TO CANEY CREEK	INTERMITTENT		
Smith	280.71	UNNAMED TRIBUTARY TO CANEY CREEK	PERENNIAL		
Smith	281.84	UNNAMED TRIBUTARY TO CANEY CREEK	EPHEMERAL		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Smith	281.97	UNNAMED TRIBUTARY TO CANEY CREEK	SEASONAL		
Smith	282.02	UNNAMED TRIBUTARY TO CANEY CREEK	SEASONAL		
Smith	283.06	UNNAMED TRIBUTARY TO CANEY CREEK	PERENNIAL		
Smith	283.45	UNNAMED TRIBUTARY TO CANEY CREEK	PERENNIAL		
Smith	283.49	UNNAMED TRIBUTARY TO CANEY CREEK	PERENNIAL		
Smith	283.54	CANEY CREEK	PERENNIAL		
Smith	284.62	UNNAMED TRIBUTARY TO CANEY CREEK	PERENNIAL		
Smith	286.77	UNNAMED TRIBUTARY TO KICKAPOO CREEK	PERENNIAL		
Smith	287.55	KICKAPOO CREEK	INTERMITTENT		
Smith	287.84	UNNAMED TRIBUTARY TO KICKAPOO CREEK	INTERMITTENT		
Smith	288.15	UNNAMED TRIBUTARY TO KICKAPOO CREEK	INTERMITTENT		
Smith	288.24	UNNAMED TRIBUTARY TO KICKAPOO CREEK	INTERMITTENT		
Smith	288.32	UNNAMED TRIBUTARY TO KICKAPOO CREEK	EPHEMERAL		
Smith	289.92	UNNAMED TRIBUTARY TO DENTON CREEK	INTERMITTENT		
Smith	290.12	DENTON CREEK	EPHEMERAL		
Smith	290.60	UNNAMED TRIBUTARY TO	EPHEMERAL		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
		DENTON CREEK			
Smith	291.04	UNNAMED TRIBUTARY TO HORSEPEN BRANCH	EPHEMERAL		
Smith	291.25	UNNAMED TRIBUTARY TO HORSEPEN BRANCH	EPHEMERAL		
Smith	291.28	UNNAMED TRIBUTARY TO HORSEPEN BRANCH	EPHEMERAL		
Smith	292.09	UNNAMED TRIBUTARY TO HORSEPEN BRANCH	EPHEMERAL		
Smith	292.52	HORSEPEN BRANCH	INTERMITTENT		
Smith	293.27	UNNAMED TRIBUTARY TO BEVER RUN	EPHEMERAL		
Cherokee	293.64	UNNAMED TRIBUTARY TO BEVER RUN	EPHEMERAL		
Cherokee	294.09	UNNAMED TRIBUTARY TO BEVER RUN	EPHEMERAL		
Cherokee	294.41	UNNAMED TRIBUTARY TO BEVER RUN	EPHEMERAL		
Cherokee	297.62	UNNAMED TRIBUTARY TO MILLS CREEK	PERENNIAL		
Cherokee	297.67	UNNAMED TRIBUTARY TO MILLS CREEK	INTERMITTENT		
Cherokee	297.68	MILL CREEK	PERENNIAL		
Cherokee	300.74	UNNAMED TRIBUTARY TO BOWLES CREEK	EPHEMERAL		
Rusk	301.32	JOHNSONS CREEK	PERENNIAL		
Rusk	301.74	UNNAMED TRIBUTARY TO JOHNSONS CREEK	EPHEMERAL		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Rusk	302.32	UNNAMED TRIBUTARY TO JOHNSONS CREEK	EPHEMERAL		
Rusk	302.99	UNNAMED TRIBUTARY TO BOGGY BRANCH	EPHEMERAL		
Rusk	303.00	UNNAMED TRIBUTARY TO BOGGY BRANCH	EPHEMERAL		
Rusk	303.10	BOGGY BRANCH	SEASONAL		
Rusk	303.83	UNNAMED TRIBUTARY TO STRIKER CREEK	INTERMITTENT		
Rusk	303.88	UNNAMED TRIBUTARY TO STRIKER CREEK	INTERMITTENT		
Rusk	304.27	UNNAMED TRIBUTARY TO STRIKER CREEK	INTERMITTENT		
Rusk	304.75	UNNAMED TRIBUTARY TO STRIKER CREEK	INTERMITTENT		
Rusk	306.03	UNNAMED TRIBUTARY TO STRIKER CREEK	EPHEMERAL		
Rusk	306.86	UNNAMED TRIBUTARY TO STRIKER CREEK	INTERMITTENT		
Rusk	306.96	UNNAMED TRIBUTARY TO STRIKER CREEK	INTERMITTENT		
Rusk	307.99	UNNAMED DRAINAGE	EPHEMERAL		
Rusk	308.04	UNNAMED DRAINAGE	EPHEMERAL		
Rusk	308.27	WHEELUS BRANCH	PERENNIAL		
Rusk	308.56	WHEELUS BRANCH	INTERMITTENT		
Rusk	309.09	UNNAMED TRIBUTARY TO AUTRY BRANCH	EPHEMERAL		
Rusk	309.22	UNNAMED TRIBUTARY TO AUTRY	INTERMITTENT		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
		BRANCH			
Rusk	309.28	UNNAMED TRIBUTARY TO AUTRY BRANCH	EPHEMERAL		
Rusk	309.70	UNNAMED TRIBUTARY TO AUTRY BRANCH	INTERMITTENT		
Rusk	310.01	UNNAMED TRIBUTARY TO AUTRY BRANCH	INTERMITTENT		
Rusk	310.22	UNNAMED TRIBUTARY TO STRIKER CREEK	EPHEMERAL		
Rusk	310.63	UNNAMED TRIBUTARY TO STRIKER CREEK	EPHEMERAL		
Rusk	310.64	UNNAMED TRIBUTARY TO STRIKER CREEK	EPHEMERAL		
Rusk	310.75	UNNAMED TRIBUTARY TO STRIKER CREEK	EPHEMERAL		
Rusk	310.77	UNNAMED TRIBUTARY TO STRIKER CREEK	EPHEMERAL		
Rusk	311.91	ANGELINA RIVER	PERENNIAL	CONTACT RECREATION; DOMESTIC WATER SUPPLY - PUBLIC WATER SUPPLY; FISH CONSUMPTION; INTERMEDIATE AQUATIC LIFE	FULLY SUPPORTING; FULLY SUPPORTING; FULLY SUPPORTING; FULLY SUPPORTING
Rusk	312.03	UNNAMED TRIBUTARY TO ANGELINA RIVER	EPHEMERAL		
Rusk	312.08	UNNAMED TRIBUTARY TO ANGELINA RIVER	EPHEMERAL		
Rusk	312.10	UNNAMED TRIBUTARY TO ANGELINA RIVER	EPHEMERAL		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Rusk	313.18	EAST FORK ANGELINA RIVER	PERENNIAL	Aquatic Life, Recreation, General, Fish Consumption, Public Water Supply, Oyster Water, Overall Use	Fully Supporting, Not Supporting, N/A, Not Assessed, N/A, N/A, Not Supporting
Rusk	313.23	EAST FORK ANGELINA RIVER	PERENNIAL	Aquatic Life, Recreation, General, Fish Consumption, Public Water Supply, Oyster Water, Overall Use	Fully Supporting, Not Supporting, N/A, Not Assessed, N/A, N/A, Not Supporting
Rusk	313.30	EAST FORK ANGELINA RIVER	PERENNIAL	Aquatic Life, Recreation, General, Fish Consumption, Public Water Supply, Oyster Water, Overall Use	Fully Supporting, Not Supporting, N/A, Not Assessed, N/A, N/A, Not Supporting
Rusk	313.55	EAST FORK ANGELINA RIVER	PERENNIAL	CONTACT RECREATION; FISH CONSUMPTION; INTERMEDIATE AQUATIC LIFE	NOT SUPPORTING; NOT SUPPORTING; NOT SUPPORTING
Rusk	313.68	UNNAMED TRIBUTARY TO EAST FORK ANGELINA RIVER	PERENNIAL		
Rusk	314.50	UNNAMED TRIBUTARY TO EAST FORK ANGELINA RIVER	EPHEMERAL		
Nacogdoches	314.98	UNNAMED TRIBUTARY TO EAST FORK ANGELINA RIVER	EPHEMERAL		
Nacogdoches	315.31	UNNAMED TRIBUTARY TO EAST FORK ANGELINA RIVER	EPHEMERAL		
Nacogdoches	316.02	UNNAMED TRIBUTARY TO INDIAN CREEK	EPHEMERAL		
Nacogdoches	316.06	UNNAMED TRIBUTARY TO INDIAN CREEK	EPHEMERAL		
Nacogdoches	316.68	INDIAN CREEK	PERENNIAL		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

<b>County</b>	<b>Approximate Milepost</b>	<b>Waterbody Name</b>	<b>Waterbody Type</b>	<b>State Water Quality Classification</b>	<b>Supports Use Designation</b>
Nacogdoches	318.91	UNNAMED TRIBUTARY TO BEECH CREEK	EPHEMERAL		
Nacogdoches	319.34	UNNAMED TRIBUTARY TO BEECH CREEK	PERENNIAL		
Nacogdoches	319.35	UNNAMED TRIBUTARY TO BEECH CREEK	PERENNIAL		
Nacogdoches	319.38	UNNAMED TRIBUTARY TO BEECH CREEK	PERENNIAL		
Nacogdoches	319.41	UNNAMED TRIBUTARY TO BEECH CREEK	PERENNIAL		
Nacogdoches	320.22	UNNAMED TRIBUTARY TO BEECH CREEK	EPHEMERAL		
Nacogdoches	320.24	UNNAMED TRIBUTARY TO BEECH CREEK	EPHEMERAL		
Nacogdoches	320.25	UNNAMED TRIBUTARY TO BEECH CREEK	PERENNIAL		
Nacogdoches	320.79	BEECH CREEK	PERENNIAL		
Nacogdoches	320.79	BEECH CREEK	PERENNIAL		
Nacogdoches	320.88	UNNAMED TRIBUTARY TO BEECH CREEK	INTERMITTENT		
Nacogdoches	320.89	UNNAMED TRIBUTARY TO BEECH CREEK	INTERMITTENT		
Nacogdoches	320.91	UNNAMED TRIBUTARY TO BEECH CREEK	INTERMITTENT		
Nacogdoches	321.94	UNNAMED WATERBODY	PERENNIAL		
Nacogdoches	322.53	BINGHAM CREEK	INTERMITTENT		
Nacogdoches	322.93	UNNAMED TRIBUTARY TO BINGHAM CREEK	INTERMITTENT		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

<b>County</b>	<b>Approximate Milepost</b>	<b>Waterbody Name</b>	<b>Waterbody Type</b>	<b>State Water Quality Classification</b>	<b>Supports Use Designation</b>
Nacogdoches	323.15	UNNAMED TRIBUTARY TO BINGHAM CREEK	INTERMITTENT		
Nacogdoches	323.86	UNNAMED TRIBUTARY TO KING CREEK	INTERMITTENT		
Nacogdoches	324.15	UNNAMED TRIBUTARY TO KING CREEK	EPHEMERAL		
Nacogdoches	324.61	UNNAMED TRIBUTARY TO KING CREEK	EPHEMERAL		
Nacogdoches	324.71	UNNAMED TRIBUTARY TO KING CREEK	EPHEMERAL		
Nacogdoches	324.73	UNNAMED TRIBUTARY TO KING CREEK	EPHEMERAL		
Nacogdoches	325.05	UNNAMED TRIBUTARY TO KING CREEK	EPHEMERAL		
Nacogdoches	325.66	UNNAMED TRIBUTARY TO KING CREEK	EPHEMERAL		
Nacogdoches	325.91	UNNAMED TRIBUTARY TO KING CREEK	PERENNIAL		
Nacogdoches	326.09	UNNAMED TRIBUTARY TO KING CREEK	PERENNIAL		
Nacogdoches	326.11	UNNAMED TRIBUTARY TO KING CREEK	PERENNIAL		
Nacogdoches	326.24	UNNAMED TRIBUTARY TO KING CREEK	INTERMITTENT		
Nacogdoches	326.25	UNNAMED TRIBUTARY TO KING CREEK	INTERMITTENT		
Nacogdoches	326.29	UNNAMED TRIBUTARY TO KING CREEK	INTERMITTENT		
Nacogdoches	326.50	UNNAMED TRIBUTARY TO KING	EPHEMERAL		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
		CREEK			
Nacogdoches	326.81	UNNAMED TRIBUTARY TO KING CREEK	EPHEMERAL		
Nacogdoches	327.67	UNNAMED TRIBUTARY TO LEGG CREEK	EPHEMERAL		
Nacogdoches	327.96	UNNAMED TRIBUTARY TO LEGG CREEK	INTERMITTENT		
Nacogdoches	327.97	UNNAMED TRIBUTARY TO LEGG CREEK	INTERMITTENT		
Nacogdoches	328.54	LEGG CREEK	EPHEMERAL		
Nacogdoches	328.55	LEGG CREEK	EPHEMERAL		
Nacogdoches	329.38	UNNAMED TRIBUTARY TO ANGELINA RIVER	EPHEMERAL		
Nacogdoches	329.88	UNNAMED TRIBUTARY TO ANGELINA RIVER	EPHEMERAL		
Nacogdoches	330.04	UNNAMED TRIBUTARY TO ANGELINA RIVER	EPHEMERAL		
Nacogdoches	331.26	UNNAMED WATERBODY	UNKNOWN		
Nacogdoches	332.13	UNNAMED TRIBUTARY TO ANGELINA RIVER	INTERMITTENT		
Nacogdoches	332.36	UNNAMED TRIBUTARY TO ANGELINA RIVER	INTERMITTENT		
Nacogdoches	333.73	UNNAMED TRIBUTARY TO ANGELINA RIVER	INTERMITTENT		
Nacogdoches	334.14	ANGELINA RIVER	PERENNIAL	Aquatic Life Use, Recreational Use, General Use, Fish Consumption Use, Public Water Supply	Fully Supporting, Fully Supporting, Fully Supporting, Fully Supporting, Fully

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
				Use, Oyster Water Use, Overall Use	Supporting, NA, Fully Supporting
Nacogdoches	334.15	ANGELINA RIVER	PERENNIAL	Aquatic Life Use, Recreational Use, General Use, Fish Consumption Use, Public Water Supply Use, Oyster Water Use, Overall Use	Fully Supporting, Fully Supporting, Fully Supporting, Fully Supporting, NA, Fully Supporting
Cherokee	334.17	ANGELINA RIVER	PERENNIAL	Aquatic Life Use, Recreational Use, General Use, Fish Consumption Use, Public Water Supply Use, Oyster Water Use, Overall Use	Fully Supporting, Fully Supporting, Fully Supporting, Fully Supporting, NA, Fully Supporting
Cherokee	334.70	UNNAMED TRIBUTARY TO ANGELINA RIVER	INTERMITTENT		
Cherokee	335.26	UNNAMED TRIBUTARY TO ANGELINA RIVER	EPHEMERAL		
Cherokee	335.79	UNNAMED TRIBUTARY TO ANGELINA RIVER	EPHEMERAL		
Cherokee	335.80	UNNAMED TRIBUTARY TO ANGELINA RIVER	EPHEMERAL		
Cherokee	337.73	UNNAMED TRIBUTARY TO STOKES CREEK	EPHEMERAL		
Cherokee	338.31	UNNAMED TRIBUTARY TO STOKES CREEK	INTERMITTENT		
Cherokee	338.48	UNNAMED TRIBUTARY TO STOKES CREEK	EPHEMERAL		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

<b>County</b>	<b>Approximate Milepost</b>	<b>Waterbody Name</b>	<b>Waterbody Type</b>	<b>State Water Quality Classification</b>	<b>Supports Use Designation</b>
Cherokee	338.49	UNNAMED TRIBUTARY TO STOKES CREEK	EPHEMERAL		
Cherokee	338.52	STOKES CREEK	INTERMITTENT		
Cherokee	338.53	UNNAMED TRIBUTARY TO STOKES CREEK	EPHEMERAL		
Cherokee	338.69	UNNAMED TRIBUTARY TO STOKES CREEK	EPHEMERAL		
Cherokee	338.77	UNNAMED TRIBUTARY TO STOKES CREEK	EPHEMERAL		
Cherokee	340.17	UNNAMED TRIBUTARY TO DOYLE CREEK	INTERMITTENT		
Cherokee	340.18	UNNAMED TRIBUTARY TO DOYLE CREEK	INTERMITTENT		
Cherokee	340.21	UNNAMED TRIBUTARY TO DOYLE CREEK	INTERMITTENT		
Cherokee	340.61	UNNAMED WATERBODY	PERENNIAL		
Angelina	340.93	UNNAMED TRIBUTARY TO RED BAYOU	EPHEMERAL		
Angelina	340.97	UNNAMED TRIBUTARY TO RED BAYOU	INTERMITTENT		
Angelina	341.05	UNNAMED TRIBUTARY TO RED BAYOU	PERENNIAL		
Angelina	341.82	UNNAMED WATERBODY	PERENNIAL		
Angelina	342.18	UNNAMED TRIBUTARY TO RED BAYOU	EPHEMERAL		
Angelina	342.53	RED BAYOU	PERENNIAL		
Angelina	342.56	UNNAMED TRIBUTARY TO RED BAYOU	EPHEMERAL		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

<b>County</b>	<b>Approximate Milepost</b>	<b>Waterbody Name</b>	<b>Waterbody Type</b>	<b>State Water Quality Classification</b>	<b>Supports Use Designation</b>
Angelina	344.69	UNNAMED TRIBUTARY TO WATSON BRANCH	INTERMITTENT		
Angelina	344.94	WATSON BRANCH	PERENNIAL		
Angelina	345.45	UNNAMED TRIBUTARY TO WATSON BRANCH	INTERMITTENT		
Angelina	345.46	UNNAMED TRIBUTARY TO WATSON BRANCH	INTERMITTENT		
Angelina	345.52	UNNAMED TRIBUTARY TO WATSON BRANCH	PERENNIAL		
Angelina	345.59	UNNAMED TRIBUTARY TO WATSON BRANCH	PERENNIAL		
Angelina	345.60	UNNAMED TRIBUTARY TO WATSON BRANCH	PERENNIAL		
Angelina	346.52	UNNAMED TRIBUTARY TO RED BAYOU	INTERMITTENT		
Angelina	346.52	UNNAMED TRIBUTARY TO RED BAYOU	UNKNOWN		
Angelina	346.59	UNNAMED TRIBUTARY TO RED BAYOU	INTERMITTENT		
Angelina	346.60	UNNAMED TRIBUTARY TO RED BAYOU	UNKNOWN		
Angelina	347.76	RED BAYOU	PERENNIAL		
Angelina	348.05	UNNAMED TRIBUTARY TO RED BAYOU	EPHEMERAL		
Angelina	350.01	UNNAMED TRIBUTARY TO NECHES RIVER	INTERMITTENT		
Angelina	350.23	UNNAMED TRIBUTARY TO NECHES RIVER	N/A		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

<b>County</b>	<b>Approximate Milepost</b>	<b>Waterbody Name</b>	<b>Waterbody Type</b>	<b>State Water Quality Classification</b>	<b>Supports Use Designation</b>
Angelina	351.02	BUNCOMBE CREEK	PERENNIAL		
Angelina	351.15	UNNAMED TRIBUTARY TO BUNCOMBE CREEK	PERENNIAL		
Angelina	351.66	UNNAMED TRIBUTARY TO BUNCOMBE CREEK	PERENNIAL		
Angelina	352.18	UNNAMED TRIBUTARY TO NECHES RIVER	PERENNIAL		
Angelina	352.93	UNNAMED TRIBUTARY TO CRAWFORD CREEK	EPHEMERAL		
Angelina	352.94	UNNAMED TRIBUTARY TO CRAWFORD CREEK	EPHEMERAL		
Angelina	352.99	UNNAMED TRIBUTARY TO CRAWFORD CREEK	EPHEMERAL		
Angelina	353.12	UNNAMED TRIBUTARY TO CRAWFORD CREEK	EPHEMERAL		
Angelina	353.26	CRAWFORD CREEK	PERENNIAL		
Angelina	353.28	STOCK POND	UNKNOWN		
Angelina	354.18	UNNAMED TRIBUTARY TO NECHES RIVER	EPHEMERAL		
Angelina	354.20	UNNAMED TRIBUTARY TO NECHES RIVER	INTERMITTENT		
Angelina	355.01	UNNAMED TRIBUTARY TO NECHES RIVER	INTERMITTENT		
Angelina	355.11	UNNAMED TRIBUTARY TO NECHES RIVER	INTERMITTENT		
Angelina	355.22	UNNAMED TRIBUTARY TO NECHES RIVER	EPHEMERAL		
Angelina	355.27	UNNAMED TRIBUTARY TO	EPHEMERAL		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
		NECHES RIVER			
Angelina	355.45	UNNAMED TRIBUTARY TO NECHES RIVER	PERENNIAL		
Angelina	355.64	UNNAMED TRIBUTARY TO NECHES RIVER	EPHEMERAL		
Angelina	356.08	UNNAMED TRIBUTARY TO NECHES RIVER	INTERMITTENT		
Angelina	356.74	UNNAMED TRIBUTARY TO NECHES RIVER	INTERMITTENT		
Angelina	356.91	UNNAMED TRIBUTARY TO NECHES RIVER	EPHEMERAL		
Angelina	357.41	UNNAMED TRIBUTARY TO NECHES RIVER	EPHEMERAL		
Angelina	357.50	UNNAMED TRIBUTARY TO NECHES RIVER	EPHEMERAL		
Angelina	357.92	UNNAMED TRIBUTARY TO NECHES RIVER	EPHEMERAL		
Angelina	358.17	UNNAMED TRIBUTARY TO NECHES RIVER	PERENNIAL		
Angelina	358.39	UNNAMED TRIBUTARY TO NECHES RIVER	INTERMITTENT		
Angelina	358.83	UNNAMED TRIBUTARY TO NECHES RIVER	INTERMITTENT		
Angelina	359.08	UNNAMED TRIBUTARY TO NECHES RIVER	INTERMITTENT		
Angelina	359.25	UNNAMED TRIBUTARY TO NECHES RIVER	INTERMITTENT		
Angelina	359.66	UNNAMED TRIBUTARY TO NECHES RIVER	EPHEMERAL		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

<b>County</b>	<b>Approximate Milepost</b>	<b>Waterbody Name</b>	<b>Waterbody Type</b>	<b>State Water Quality Classification</b>	<b>Supports Use Designation</b>
Angelina	359.71	UNNAMED TRIBUTARY TO NECHES RIVER	EPHEMERAL		
Angelina	359.81	UNNAMED TRIBUTARY TO NECHES RIVER	EPHEMERAL		
Angelina	360.54	UNNAMED TRIBUTARY TO JACK CREEK	PERENNIAL		
Angelina	360.69	UNNAMED TRIBUTARY TO JACK CREEK	PERENNIAL		
Angelina	360.77	UNNAMED TRIBUTARY TO JACK CREEK	PERENNIAL		
Angelina	360.81	UNNAMED TRIBUTARY TO JACK CREEK	PERENNIAL		
Angelina	360.89	JACK CREEK	PERENNIAL		
Angelina	361.09	CEDAR CREEK	PERENNIAL		
Angelina	361.12	CEDAR CREEK	PERENNIAL		
Angelina	361.24	UNNAMED TRIBUTARY TO HURRICANE CREEK	INTERMITTENT		
Angelina	362.14	UNNAMED TRIBUTARY TO NECHES RIVER	EPHEMERAL		
Angelina	362.79	UNNAMED TRIBUTARY TO NECHES RIVER	EPHEMERAL		
Angelina	362.81	UNNAMED TRIBUTARY TO NECHES RIVER	EPHEMERAL		
Angelina	362.81	UNNAMED TRIBUTARY TO NECHES RIVER	PERENNIAL		
Angelina	363.17	UNNAMED TRIBUTARY TO NECHES RIVER	PERENNIAL		
Angelina	366.40	UNNAMED TRIBUTARY TO	EPHEMERAL		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
		FIBERBOARD LAKE			
Angelina	366.90	FIBERBOARD LAKE	PERENNIAL		
Angelina	366.94	FIBERBOARD LAKE	PERENNIAL		
Polk	371.58	UNNAMED TRIBUTARY TO LOWER SULPHUR CREEK	EPHEMERAL		
Polk	371.89	UNNAMED TRIBUTARY TO LOWER SULPHUR CREEK	INTERMITTENT		
Polk	372.10	UNNAMED TRIBUTARY TO LOWER SULPHUR CREEK	INTERMITTENT		
Polk	372.41	UNNAMED TRIBUTARY TO LOWER SULPHUR CREEK	EPHEMERAL		
Polk	372.49	UNNAMED TRIBUTARY TO LOWER SULPHUR CREEK	EPHEMERAL		
Polk	373.39	UNNAMED TRIBUTARY TO PINEY CREEK	INTERMITTENT		
Polk	373.71	UNNAMED TRIBUTARY TO PINEY CREEK	INTERMITTENT		
Polk	375.02	UNNAMED TRIBUTARY TO PINEY CREEK	INTERMITTENT		
Polk	375.49	UNNAMED TRIBUTARY TO PINEY CREEK	EPHEMERAL		
Polk	375.70	UNNAMED TRIBUTARY TO PINEY CREEK	EPHEMERAL		
Polk	375.82	UNNAMED TRIBUTARY TO PINEY CREEK	EPHEMERAL		
Polk	375.94	UNNAMED TRIBUTARY TO PINEY CREEK	INTERMITTENT		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Polk	376.43	PINEY CREEK	PERENNIAL	Partially Supporting, Fully Supporting, Fully Supporting, Not Assessed, N/A, N/A, Partially Supporting	Not Supporting, Fully Supporting, N/A, Not Assessed, N/A, N/A, Not Supporting
Polk	376.45	PINEY CREEK	PERENNIAL	Partially Supporting, Fully Supporting, Fully Supporting, Not Assessed, N/A, N/A, Partially Supporting	Not Supporting, Fully Supporting, N/A, Not Assessed, N/A, N/A, Not Supporting
Polk	376.60	UNNAMED WATERBODY	PERENNIAL		
Polk	376.63	UNNAMED TRIBUTARY TO PINEY CREEK	EPHEMERAL		
Polk	376.67	UNNAMED TRIBUTARY TO PINEY CREEK	EPHEMERAL		
Polk	376.68	UNNAMED TRIBUTARY TO PINEY CREEK	PERENNIAL		
Polk	376.71	UNNAMED TRIBUTARY TO PINEY CREEK	PERENNIAL		
Polk	376.74	UNNAMED TRIBUTARY TO PINEY CREEK	PERENNIAL		
Polk	376.77	UNNAMED TRIBUTARY TO PINEY CREEK	PERENNIAL		
Polk	377.66	UNNAMED TRIBUTARY TO BEAR CREEK	PERENNIAL		
Polk	377.85	BEAR CREEK	PERENNIAL		
Polk	377.99	UNNAMED TRIBUTARY TO BEAR CREEK	EPHEMERAL		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Polk	380.50	UNNAMED TRIBUTARY TO CREEDS CREEK	EPHEMERAL		
Polk	380.95	UNNAMED TRIBUTARY TO JONES CREEK	INTERMITTENT		
Polk	381.26	UNNAMED TRIBUTARY TO JONES CREEK	INTERMITTENT		
Polk	381.51	UNNAMED TRIBUTARY TO JONES CREEK	PERENNIAL		
Polk	381.90	JONES CREEK	PERENNIAL		
Polk	382.55	UNNAMED TRIBUTARY TO KENNEDY CREEK	INTERMITTENT		
Polk	382.64	BRUSHY CREEK	PERENNIAL		
Polk	382.82	UNNAMED DRAINAGE	EPHEMERAL		
Polk	384.48	UNNAMED TRIBUTARY TO JOHNSONS CREEK	EPHEMERAL		
Polk	384.50	JOHNSONS CREEK	INTERMITTENT		
Polk	384.54	JOHNSONS CREEK	INTERMITTENT		
Polk	385.15	UNNAMED TRIBUTARY TO BUNDIX BRANCH	EPHEMERAL		
Polk	385.37	UNNAMED TRIBUTARY TO BUNDIX BRANCH	INTERMITTENT		
Polk	385.52	UNNAMED TRIBUTARY TO BUNDIX BRANCH	EPHEMERAL		
Polk	385.56	BUNDIX BRANCH	PERENNIAL		
Polk	385.61	UNNAMED TRIBUTARY TO BUNDIX BRANCH	EPHEMERAL		
Polk	385.89	UNNAMED TRIBUTARY TO BUNDIX BRANCH	EPHEMERAL		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Polk	386.04	UNNAMED TRIBUTARY TO BUNDIX BRANCH	EPHEMERAL		
Polk	386.34	UNNAMED TRIBUTARY TO BUNDIX BRANCH	INTERMITTENT		
Polk	387.19	UNNAMED TRIBUTARY TO BUNDIX BRANCH	INTERMITTENT		
Polk	387.29	BUNDIX BRANCH	INTERMITTENT		
Polk	388.00	UNNAMED DRAINAGE	INTERMITTENT		
Polk	388.49	BIG SANDY CREEK	PERENNIAL	Aquatic Life Use, Recreational Use, General Use, Fish Consumption Use, Public Water Supply Use, Oyster Water Use, Overall Use	Fully Supporting, Not Supporting, N/A, Not Assessed, Not Assessed, N/A, Not Supporting
Polk	388.51	BIG SANDY CREEK	PERENNIAL	Aquatic Life Use, Recreational Use, General Use, Fish Consumption Use, Public Water Supply Use, Oyster Water Use, Overall Use	Fully Supporting, Not Supporting, N/A, Not Assessed, Not Assessed, N/A, Not Supporting
Polk	388.59	UNNAMED TRIBUTARY TO BIG SANDY CREEK	INTERMITTENT		
Polk	389.17	BIG SANDY CREEK	PERENNIAL	CONTACT RECREATION; FISH CONSUMPTION; INTERMEDIATE AQUATIC LIFE	NOT SUPPORTING; FULLY SUPPORTING; FULLY SUPPORTING
Polk	389.57	UNNAMED TRIBUTARY TO BIG SANDY CREEK	EPHEMERAL		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Polk	389.58	UNNAMED TRIBUTARY TO BIG SANDY CREEK	EPHEMERAL		
Polk	389.59	UNNAMED TRIBUTARY TO BIG SANDY CREEK	EPHEMERAL		
Polk	389.61	UNNAMED TRIBUTARY TO BIG SANDY CREEK	EPHEMERAL		
Polk	389.64	UNNAMED TRIBUTARY TO BIG SANDY CREEK	EPHEMERAL		
Polk	389.69	UNNAMED TRIBUTARY TO BIG SANDY CREEK	EPHEMERAL		
Polk	389.74	BIG SANDY CREEK	PERENNIAL	CONTACT RECREATION; FISH CONSUMPTION; INTERMEDIATE AQUATIC LIFE	NOT SUPPORTING; FULLY SUPPORTING; FULLY SUPPORTING
Polk	391.49	UNNAMED TRIBUTARY TO BIG SANDY CREEK	EPHEMERAL		
Polk	391.67	BIG SANDY CREEK	PERENNIAL	CONTACT RECREATION; FISH CONSUMPTION; INTERMEDIATE AQUATIC LIFE	NOT SUPPORTING; FULLY SUPPORTING; FULLY SUPPORTING
Polk	391.83	UNNAMED TRIBUTARY TO BIG SANDY CREEK	INTERMITTENT		
Polk	392.22	UNNAMED TRIBUTARY TO BIG SANDY CREEK	EPHEMERAL		
Polk	392.79	UNNAMED WATERBODY	EPHEMERAL		
Polk	393.16	UNNAMED TRIBUTARY TO CANEY CREEK	INTERMITTENT		
Polk	393.23	UNNAMED TRIBUTARY TO CANEY CREEK	INTERMITTENT		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Polk	393.86	UNNAMED TRIBUTARY TO CANEY CREEK	EPHEMERAL		
Polk	393.92	UNNAMED TRIBUTARY TO CANEY CREEK	EPHEMERAL		
Polk	394.51	UNNAMED DRAINAGE	EPHEMERAL		
Polk	396.36	UNNAMED TRIBUTARY TO MENARD CREEK	EPHEMERAL		
Polk	396.45	UNNAMED TRIBUTARY TO MENARD CREEK	EPHEMERAL		
Polk	396.47	UNNAMED TRIBUTARY TO MENARD CREEK	EPHEMERAL		
Polk	396.53	UNNAMED TRIBUTARY TO MENARD CREEK	N/A		
Polk	397.00	UNNAMED TRIBUTARY TO EAST MENARD CREEK	INTERMITTENT		
Polk	397.02	UNNAMED TRIBUTARY TO EAST MENARD CREEK	INTERMITTENT		
Polk	397.14	UNNAMED TRIBUTARY TO EAST MENARD CREEK	INTERMITTENT		
Polk	397.15	UNNAMED TRIBUTARY TO EAST MENARD CREEK	INTERMITTENT		
Polk	397.17	UNNAMED TRIBUTARY TO EAST MENARD CREEK	INTERMITTENT		
Polk	397.18	EAST MENARD CREEK	PERENNIAL		
Polk	398.52	UNNAMED TRIBUTARY TO BLUFF CREEK	INTERMITTENT		
Polk	398.76	UNNAMED TRIBUTARY TO BLUFF CREEK	INTERMITTENT		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Polk	399.69	UNNAMED TRIBUTARY TO BLUFF CREEK	INTERMITTENT		
Polk	399.72	UNNAMED TRIBUTARY TO BLUFF CREEK	INTERMITTENT		
Polk	400.67	UNNAMED TRIBUTARY TO BLUFF CREEK	EPHEMERAL		
Polk	400.84	UNNAMED TRIBUTARY TO BLUFF CREEK	EPHEMERAL		
Polk	401.35	UNNAMED TRIBUTARY TO BLUFF CREEK	PERENNIAL		
Polk	404.09	MENARD CREEK	PERENNIAL		
Polk	404.10	MENARD CREEK	PERENNIAL		
Polk	404.33	UNNAMED TRIBUTARY TO MENARD CREEK	INTERMITTENT		
Polk	404.57	UNNAMED TRIBUTARY TO MENARD CREEK	EPHEMERAL		
Polk	404.74	UNNAMED TRIBUTARY TO MENARD CREEK	INTERMITTENT		
Polk	404.75	UNNAMED TRIBUTARY TO MENARD CREEK	INTERMITTENT		
Polk	405.40	UNNAMED TRIBUTARY TO MENARD CREEK	INTERMITTENT		
Polk	407.13	UNNAMED TRIBUTARY TO DRY BRANCH	PERENNIAL		
Polk	407.15	UNNAMED TRIBUTARY TO DRY BRANCH	PERENNIAL		
Polk	407.22	UNNAMED TRIBUTARY TO DRY BRANCH	INTERMITTENT		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Polk	407.24	UNNAMED TRIBUTARY TO DRY BRANCH	INTERMITTENT		
Polk	407.24	UNNAMED TRIBUTARY TO DRY BRANCH	INTERMITTENT		
Polk	407.26	UNNAMED TRIBUTARY TO DRY BRANCH	INTERMITTENT		
Polk	411.68	UNNAMED TRIBUTARY TO WILLIAMS CREEK	UNKNOWN		
Polk	413.66	UNNAMED TRIBUTARY TO WILLIAMS CREEK	EPHEMERAL		
Polk	414.35	UNNAMED TRIBUTARY TO WILLIAMS CREEK	EPHEMERAL		
Polk	414.36	UNNAMED TRIBUTARY TO WILLIAMS CREEK	EPHEMERAL		
Polk	414.70	UNNAMED TRIBUTARY TO BEAR FOOT LAKE	EPHEMERAL		
Polk	415.34	UNNAMED TRIBUTARY TO BEAR FOOT LAKE	PERENNIAL		
Polk	415.35	UNNAMED TRIBUTARY TO BEAR FOOT LAKE	PERENNIAL		
Polk	415.35	UNNAMED TRIBUTARY TO BEAR FOOT LAKE	PERENNIAL		
Liberty	416.19	UNNAMED TRIBUTARY TO MENARD CREEK	UNKNOWN		
Liberty	416.35	MENARD CREEK	UNKNOWN		
Liberty	422.69	BEEF HEAD CREEK	EPHEMERAL		
Liberty	427.29	ARIZONA CREEK	INTERMITTENT		
Liberty	431.71	UNNAMED TRIBUTARY TO	INTERMITTENT		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
		BATISTE CREEK			
Liberty	432.87	UNNAMED TRIBUTARY TO BATISTE CREEK	EPHEMERAL		
Liberty	433.44	UNNAMED TRIBUTARY TO BATISTE CREEK	EPHEMERAL		
Liberty	433.46	UNNAMED TRIBUTARY TO BATISTE CREEK	EPHEMERAL		
Liberty	434.11	UNNAMED TRIBUTARY TO BATISTE CREEK	EPHEMERAL		
Liberty	434.12	UNNAMED TRIBUTARY TO BATISTE CREEK	EPHEMERAL		
Liberty	439.03	UNNAMED PASTURE DRAINAGE	EPHEMERAL		
Liberty	439.50	MAYHAW CREEK	PERENNIAL		
Hardin	439.83	MAYHAW CREEK	INTERMITTENT		
Hardin	440.75	MAYHAW CREEK	UNKNOWN		
Hardin	446.28	UNNAMED TRIBUTARY TO PINE ISLAND BAYOU	EPHEMERAL		
Hardin	446.29	UNNAMED TRIBUTARY TO PINE ISLAND BAYOU	EPHEMERAL		
Hardin	447.29	UNNAMED TRIBUTARY TO PINE ISLAND BAYOU	INTERMITTENT		
Hardin	449.03	PINE ISLAND BAYOU	PERENNIAL	CONTACT RECREATION; DOMESTIC WATER SUPPLY - PUBLIC WATER SUPPLY; FISH CONSUMPTION; INTERMEDIATE AQUATIC LIFE	FULLY SUPPORTING; FULLY SUPPORTING; FULLY SUPPORTING; PARTIAL
Hardin	449.07	UNNAMED TRIBUTARY TO PINE	EPHEMERAL		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
		ISLAND BAYOU			
Hardin	449.07	UNNAMED TRIBUTARY TO PINE ISLAND BAYOU	EPHEMERAL		
Hardin	449.36	UNNAMED TRIBUTARY TO PINE ISLAND BAYOU	EPHEMERAL		
Hardin	449.93	UNNAMED TRIBUTARY TO PINE ISLAND BAYOU	EPHEMERAL		
Hardin	450.59	UNNAMED TRIBUTARY TO PINE ISLAND BAYOU	INTERMITTENT		
Liberty	451.56	PINE ISLAND BAYOU	PERENNIAL	CONTACT RECREATION; DOMESTIC WATER SUPPLY - PUBLIC WATER SUPPLY; FISH CONSUMPTION; INTERMEDIATE AQUATIC LIFE	FULLY SUPPORTING; FULLY SUPPORTING; FULLY SUPPORTING; PARTIAL
Liberty	451.82	UNNAMED TRIBUTARY TO PINE ISLAND BAYOU	EPHEMERAL		
Jefferson	452.72	UNNAMED TRIBUTARY TO PINE ISLAND BAYOU	EPHEMERAL		
Jefferson	454.11	UNNAMED TRIBUTARY TO WILLOW CREEK	INTERMITTENT		
Jefferson	454.12	UNNAMED TRIBUTARY TO WILLOW CREEK	INTERMITTENT		
Jefferson	454.17	WILLOW CREEK	INTERMITTENT	CONTACT RECREATION; FISH CONSUMPTION; INTERMEDIATE AQUATIC LIFE	FULLY SUPPORTING; FULLY SUPPORTING; NOT SUPPORTING
Jefferson	454.24	UNNAMED TRIBUTARY TO WILLOW CREEK	INTERMITTENT		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Jefferson	457.92	COTTON CREEK	PERENNIAL		
Jefferson	457.96	COTTON CREEK	PERENNIAL		
Jefferson	459.16	UNNAMED TRIBUTARY TO PINE ISLAND BAYOU	INTERMITTENT		
Jefferson	459.94	UNNAMED TRIBUTARY TO PINE ISLAND BAYOU	UNKNOWN		
Jefferson	460.46	UNNAMED TRIBUTARY TO PINE ISLAND BAYOU	UNKNOWN		
Jefferson	461.77	NECHES VALLEY AUTHORITY CANAL	PERENNIAL		
Jefferson	462.26	UNNAMED TRIBUTARY TO B1 CANAL	INTERMITTENT		
Jefferson	462.48	B1 CANAL	EPHEMERAL		
Jefferson	462.50	B1 CANAL	PERENNIAL		
Jefferson	463.21	UNNAMED CANAL	EPHEMERAL		
Jefferson	463.41	UNNAMED CANAL	EPHEMERAL		
Jefferson	463.67	UNNAMED CANAL	PERENNIAL		
Jefferson	464.58	UNNAMED TRIBUTARY TO B1 CANAL	UNKNOWN		
Jefferson	465.18	UNNAMED TRIBUTARY TO B1 CANAL	INTERMITTENT		
Jefferson	465.46	UNNAMED TRIBUTARY TO LOWER SAN JACINTO RIVER CANAL	PERENNIAL		
Jefferson	465.78	UNNAMED CANAL	UNKNOWN		
Jefferson	466.08	LOWER SAN JACINTO RIVER CANAL 2	INTERMITTENT		
Jefferson	466.09	LOWER SAN JACINTO RIVER	PERENNIAL		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
		CANAL 2			
Jefferson	466.32	UNNAMED TRIBUTARY TO LOWER SAN JACINTO RIVER CANAL	INTERMITTENT		
Jefferson	466.33	UNNAMED CANAL	UNKNOWN		
Jefferson	466.37	UNNAMED TRIBUTARY TO LOWER SAN JACINTO RIVER CANAL	INTERMITTENT		
Jefferson	466.55	UNNAMED TRIBUTARY TO LOWER SAN JACINTO RIVER CANAL	INTERMITTENT		
Jefferson	466.56	LOWER SAN JAC RIVER CANAL	PERENNIAL		
Jefferson	466.57	JEFFERSON COUNTY CANAL	UNKNOWN		
Jefferson	467.87	JEFFERSON COUNTY CANAL	UNKNOWN		
Jefferson	467.88	JEFFERSON COUNTY CANAL	UNKNOWN		
Jefferson	468.18	JEFFERSON COUNTY CANAL	UNKNOWN		
Jefferson	469.89	JEFFERSON COUNTY CANAL	UNKNOWN	CONTACT RECREATION; FISH CONSUMPTION; INTERMEDIATE AQUATIC LIFE	FULLY SUPPORTING; FULLY SUPPORTING; FULLY SUPPORTING
Jefferson	470.60	UNNAMED TRIBUTARY TO WILLOW MARSH BAYOU	PERENNIAL		
Jefferson	471.45	UNNAMED TRIBUTARY TO WILLOW MARSH BAYOU	EPHEMERAL		
Jefferson	472.01	UNNAMED TRIBUTARY TO WILLOW MARSH BAYOU	EPHEMERAL		
Jefferson	472.16	UNNAMED TRIBUTARY TO WILLOW MARSH BAYOU	INTERMITTENT		

Appendix E-2 Waterbodies Crossed by the Project - Gulf Coast

County	Approximate Milepost	Waterbody Name	Waterbody Type	State Water Quality Classification	Supports Use Designation
Jefferson	473.56	UNNAMED WATERBODY	PERENNIAL		
Jefferson	473.79	UNNAMED TRIBUTARY TO HILLEBRANDT BAYOU	PERENNIAL		
Jefferson	473.83	HILLEBRANDT BAYOU	PERENNIAL	CONTACT RECREATION; FISH CONSUMPTION; INTERMEDIATE AQUATIC LIFE	FULLY SUPPORTING; FULLY SUPPORTING; PARTIAL
Jefferson	474.93	UNNAMED TRIBUTARY TO HILLEBRANDT BAYOU	UNKNOWN		
Jefferson	476.90	UNNAMED TRIBUTARY TO GARNER CANAL	EPHEMERAL		
Jefferson	477.70	UNNAMED TRIBUTARY TO GARNER CANAL	INTERMITTENT		
Jefferson	478.40	UNNAMED TRIBUTARY TO NECHES RIVER	EPHEMERAL		
Jefferson	482.61	UNNAMED TRIBUTARY TO NECHES RIVER	UNKNOWN		
Jefferson	482.97	UNNAMED DITCH	EPHEMERAL		
Jefferson	483.29	UNNAMED DITCH	PERENNIAL		

Appendix E-3 Wetlands Along Project Route by Milepost

County	Milepost Range <sup>1</sup>	Distance Crossed (miles) <sup>1</sup>	Wetlands Type
<b>STEELE CITY SEGMENT</b>			
<b>MONTANA</b>			
Phillips	1.1 to 1.1	0.1	Palustrine Emergent Wetlands
Phillips	25.4 to 25.4	<0.1	Palustrine Scrub-Shrub Wetlands
Phillips	25.4 to 25.5	0.1	Palustrine Emergent Wetlands
Valley	25.5 to 25.6	0.1	Palustrine Emergent Wetlands
Valley	25.7 to 25.7	<0.1	Palustrine Emergent Wetlands
Valley	25.7 to 25.7	<0.1	Palustrine Emergent Wetlands
Valley	52.5 to 52.5	<0.1	Palustrine Emergent Wetlands
Valley	69.4 to 69.4	<0.1	Palustrine Emergent Wetlands
Valley	70.4 to 70.4	<0.1	Palustrine Emergent Wetlands
Valley	70.4 to 70.5	0.1	Palustrine Emergent Wetlands
Valley	71.1 to 71.1	<0.1	Palustrine Emergent Wetlands
Valley	78.1 to 78.1	<0.1	Palustrine Emergent Wetlands
Valley	78.1 to 78.1	<0.1	Palustrine Emergent Wetlands
McCone	89.3 to 89.3	<0.1	Palustrine Emergent Wetlands
McCone	146.6 to 146.7	0.1	Palustrine Emergent Wetlands
McCone	146.7 to 146.7	<0.1	Palustrine Emergent Wetlands
McCone	146.8 to 146.8	<0.1	Palustrine Emergent Wetlands
McCone	146.9 to 147	<0.1	Palustrine Emergent Wetlands
McCone	153.2 to 153.2	<0.1	Palustrine Emergent Wetlands
McCone	153.2 to 153.2	<0.1	Palustrine Emergent Wetlands
McCone	153.6 to 153.7	<0.1	Palustrine Emergent Wetlands
McCone	153.7 to 153.7	<0.1	Palustrine Emergent Wetlands
McCone	155.7 to 155.7	<0.1	Palustrine Emergent Wetlands
Dawson	158.7 to 158.7	<0.1	Palustrine Emergent Wetlands
Dawson	158.7 to 158.8	<0.1	Palustrine Emergent Wetlands
Dawson	159.3 to 159.3	<0.1	Palustrine Emergent Wetlands
Dawson	159.3 to 159.4	<0.1	Palustrine Scrub-Shrub Wetlands
Dawson	159.4 to 159.4	<0.1	Palustrine Emergent Wetlands
Dawson	159.6 to 159.6	<0.1	Palustrine Emergent Wetlands
Dawson	159.6 to 159.6	<0.1	Palustrine Emergent Wetlands
Dawson	163.5 to 163.6	<0.1	Palustrine Emergent Wetlands
Dawson	163.6 to 163.6	<0.1	Palustrine Emergent Wetlands
Dawson	175.6 to 175.6	<0.1	Palustrine Emergent Wetlands
Dawson	175.6 to 175.6	<0.1	Palustrine Emergent Wetlands
Dawson	196.1 to 196.1	<0.1	Palustrine Emergent Wetlands

Appendix E-3 Wetlands Along Project Route by Milepost

County	Milepost Range <sup>1</sup>	Distance Crossed (miles) <sup>1</sup>	Wetlands Type
Fallon	227.1 to 227.1	<0.1	Palustrine Emergent Wetlands
Fallon	234.7 to 234.7	<0.1	Palustrine Emergent Wetlands
Fallon	234.7 to 234.7	<0.1	Palustrine Emergent Wetlands
Fallon	234.7 to 234.7	<0.1	Palustrine Emergent Wetlands
Fallon	234.8 to 234.8	<0.1	Palustrine Emergent Wetlands
Fallon	234.8 to 234.8	<0.1	Palustrine Emergent Wetlands
Fallon	234.9 to 234.9	<0.1	Palustrine Emergent Wetlands
Fallon	236 to 236	<0.1	Palustrine Emergent Wetlands
Fallon	236 to 236	<0.1	Palustrine Emergent Wetlands
Fallon	244.4 to 244.4	<0.1	Palustrine Emergent Wetlands
Fallon	244.4 to 244.5	<0.1	Palustrine Emergent Wetlands
Fallon	249 to 249	<0.1	Palustrine Emergent Wetlands
Fallon	258.6 to 258.6	<0.1	Palustrine Emergent Wetlands
Fallon	259.3 to 259.3	<0.1	Palustrine Emergent Wetlands
Fallon	261 to 261	<0.1	Palustrine Emergent Wetlands
Fallon	261.5 to 261.5	<0.1	Palustrine Emergent Wetlands
Fallon	268.1 to 268.1	<0.1	Palustrine Emergent Wetlands
Fallon	276.4 to 276.4	<0.1	Palustrine Emergent Wetlands
Fallon	276.4 to 276.4	<0.1	Palustrine Emergent Wetlands
<b>SOUTH DAKOTA</b>			
Harding	289.7 to 289.7	<0.1	Palustrine Emergent Wetlands
Harding	289.7 to 289.7	<0.1	Palustrine Emergent Wetlands
Harding	290.6 to 290.6	<0.1	Palustrine Emergent Wetlands
Harding	290.6 to 290.6	<0.1	Palustrine Emergent Wetlands
Harding	292.1 to 292.1	<0.1	Palustrine Emergent Wetlands
Harding	295.3 to 295.3	<0.1	Palustrine Emergent Wetlands
Harding	297.3 to 297.4	<0.1	Palustrine Emergent Wetlands
Harding	300.4 to 300.4	<0.1	Palustrine Emergent Wetlands
Harding	300.4 to 300.4	<0.1	Palustrine Emergent Wetlands
Harding	328.9 to 328.9	<0.1	Palustrine Emergent Wetlands
Harding	329.4 to 329.4	<0.1	Palustrine Emergent Wetlands
Harding	329.4 to 329.5	0.1	Palustrine Emergent Wetlands
Harding	331 to 331	<0.1	Palustrine Emergent Wetlands
Harding	347.7 to 347.7	<0.1	Palustrine Emergent Wetlands
Butte	355.1 to 355.1	<0.1	Palustrine Emergent Wetlands
Butte	355.1 to 355.2	<0.1	Palustrine Emergent Wetlands
Butte	357.6 to 357.6	<0.1	Palustrine Emergent Wetlands
Butte	357.7 to 357.7	<0.1	Palustrine Emergent Wetlands
Butte	357.7 to 357.8	<0.1	Palustrine Emergent Wetlands

Appendix E-3 Wetlands Along Project Route by Milepost

<b>County</b>	<b>Milepost Range<sup>1</sup></b>	<b>Distance Crossed (miles)<sup>1</sup></b>	<b>Wetlands Type</b>
Perkins	365.2 to 365.2	<0.1	Palustrine Emergent Wetlands
Meade	374.1 to 374.1	<0.1	Palustrine Emergent Wetlands
Meade	374.1 to 374.1	<0.1	Palustrine Emergent Wetlands
Meade	376.7 to 376.7	<0.1	Palustrine Emergent Wetlands
Meade	376.7 to 376.7	<0.1	Palustrine Emergent Wetlands
Meade	376.7 to 376.7	<0.1	Palustrine Emergent Wetlands
Meade	376.8 to 376.8	<0.1	Palustrine Emergent Wetlands
Meade	376.8 to 376.8	<0.1	Palustrine Emergent Wetlands
Meade	376.9 to 376.9	<0.1	Palustrine Emergent Wetlands
Meade	384 to 384	<0.1	Palustrine Emergent Wetlands
Meade	384 to 384	<0.1	Palustrine Emergent Wetlands
Meade	384 to 384	<0.1	Palustrine Emergent Wetlands
Meade	395.7 to 395.7	<0.1	Palustrine Emergent Wetlands
Meade	395.7 to 395.7	<0.1	Palustrine Emergent Wetlands
Meade	395.9 to 395.9	<0.1	Palustrine Emergent Wetlands
Meade	395.9 to 395.9	<0.1	Palustrine Emergent Wetlands
Meade	396.8 to 396.8	<0.1	Palustrine Emergent Wetlands
Meade	396.8 to 396.8	<0.1	Palustrine Emergent Wetlands
Meade	404.6 to 404.6	<0.1	Palustrine Emergent Wetlands
Haakon	433.4 to 433.4	<0.1	Palustrine Emergent Wetlands
Haakon	443.8 to 443.8	<0.1	Palustrine Emergent Wetlands
Haakon	443.9 to 443.9	<0.1	Palustrine Emergent Wetlands
Haakon	448.4 to 448.4	<0.1	Palustrine Emergent Wetlands
Haakon	452.1 to 452.2	<0.1	Palustrine Emergent Wetlands
Haakon	480.7 to 480.8	<0.1	Palustrine Emergent Wetlands
Haakon	480.9 to 480.9	<0.1	Palustrine Emergent Wetlands
Jones	517.4 to 517.5	<0.1	Palustrine Emergent Wetlands
Lyman	533.2 to 533.2	<0.1	Palustrine Emergent Wetlands
Tripp	537.2 to 537.2	<0.1	Palustrine Scrub-Shrub Wetlands
Tripp	541.7 to 541.7	<0.1	Palustrine Emergent Wetlands
Tripp	543.1 to 543.2	0.1	Palustrine Emergent Wetlands
Tripp	548.5 to 548.5	<0.1	Palustrine Emergent Wetlands
Tripp	549.6 to 549.7	<0.1	Palustrine Emergent Wetlands
Tripp	549.7 to 549.7	<0.1	Palustrine Emergent Wetlands
Tripp	551.7 to 551.7	<0.1	Palustrine Emergent Wetlands
Tripp	553.3 to 553.3	0.1	Palustrine Emergent Wetlands
Tripp	560.4 to 560.5	<0.1	Palustrine Emergent Wetlands
Tripp	563.3 to 563.3	<0.1	Palustrine Emergent Wetlands
Tripp	572.7 to 572.7	<0.1	Palustrine Emergent Wetlands

Appendix E-3 Wetlands Along Project Route by Milepost

County	Milepost Range <sup>1</sup>	Distance Crossed (miles) <sup>1</sup>	Wetlands Type
Tripp	572.7 to 572.7	<0.1	Palustrine Emergent Wetlands
Tripp	573.6 to 573.6	<0.1	Palustrine Emergent Wetlands
Tripp	574.2 to 574.2	<0.1	Palustrine Emergent Wetlands
Tripp	574.3 to 574.3	<0.1	Palustrine Emergent Wetlands
Tripp	574.4 to 574.4	<0.1	Palustrine Scrub-Shrub Wetlands
Tripp	574.9 to 574.9	<0.1	Palustrine Emergent Wetlands
Tripp	576.6 to 576.6	<0.1	Palustrine Emergent Wetlands
Tripp	591.1 to 591.1	<0.1	Palustrine Emergent Wetlands
<b>NEBRASKA</b>			
Rock	619.4 to 619.4	0.1	Palustrine Emergent Wetlands
Rock	622.2 to 622.2	<0.1	Palustrine Emergent Wetlands
Rock	622.4 to 622.5	<0.1	Palustrine Emergent Wetlands
Rock	622.5 to 622.5	<0.1	Palustrine Emergent Wetlands
Rock	622.6 to 622.6	<0.1	Palustrine Emergent Wetlands
Rock	622.6 to 622.6	<0.1	Palustrine Emergent Wetlands
Rock	624.3 to 624.3	<0.1	Palustrine Emergent Wetlands
Rock	624.4 to 624.4	<0.1	Palustrine Emergent Wetlands
Rock	624.6 to 624.7	<0.1	Palustrine Emergent Wetlands
Rock	624.7 to 624.7	<0.1	Palustrine Emergent Wetlands
Holt	629.4 to 629.5	0.2	Palustrine Emergent Wetlands
Holt	629.5 to 629.6	<0.1	Palustrine Emergent Wetlands
Holt	636.3 to 636.3	<0.1	Palustrine Emergent Wetlands
Holt	636.3 to 636.3	<0.1	Palustrine Emergent Wetlands
Holt	636.4 to 636.4	<0.1	Palustrine Emergent Wetlands
Holt	636.4 to 636.4	<0.1	Palustrine Emergent Wetlands
Holt	637.5 to 637.5	<0.1	Palustrine Emergent Wetlands
Holt	638.7 to 638.7	<0.1	Palustrine Emergent Wetlands
Holt	641.4 to 641.4	<0.1	Palustrine Emergent Wetlands
Holt	641.9 to 642.3	0.4	Palustrine Emergent Wetlands
Holt	642.3 to 642.4	0.1	Palustrine Emergent Wetlands
Holt	643.3 to 643.3	<0.1	Palustrine Emergent Wetlands
Holt	643.4 to 643.4	<0.1	Palustrine Emergent Wetlands
Holt	643.8 to 643.9	<0.1	Palustrine Emergent Wetlands
Holt	643.9 to 644	<0.1	Palustrine Emergent Wetlands
Holt	644 to 644	0.1	Palustrine Emergent Wetlands
Holt	644.1 to 644.1	<0.1	Palustrine Emergent Wetlands
Holt	644.3 to 644.3	<0.1	Palustrine Emergent Wetlands
Holt	644.5 to 644.5	<0.1	Palustrine Emergent Wetlands
Holt	644.6 to 644.6	<0.1	Palustrine Emergent Wetlands

Appendix E-3 Wetlands Along Project Route by Milepost

<b>County</b>	<b>Milepost Range<sup>1</sup></b>	<b>Distance Crossed (miles)<sup>1</sup></b>	<b>Wetlands Type</b>
Holt	644.7 to 644.8	<0.1	Palustrine Emergent Wetlands
Holt	645.3 to 645.3	<0.1	Palustrine Emergent Wetlands
Holt	645.3 to 645.4	<0.1	Palustrine Emergent Wetlands
Holt	645.4 to 645.7	0.2	Palustrine Emergent Wetlands
Holt	645.7 to 645.7	<0.1	Palustrine Emergent Wetlands
Holt	645.7 to 645.8	<0.1	Palustrine Emergent Wetlands
Holt	646.4 to 646.4	<0.1	Palustrine Emergent Wetlands
Holt	646.7 to 646.7	<0.1	Palustrine Emergent Wetlands
Holt	646.7 to 646.8	<0.1	Palustrine Emergent Wetlands
Holt	647.1 to 647.1	<0.1	Palustrine Emergent Wetlands
Holt	647.1 to 647.1	<0.1	Palustrine Emergent Wetlands
Holt	647.4 to 647.4	<0.1	Palustrine Emergent Wetlands
Holt	647.4 to 647.5	<0.1	Palustrine Emergent Wetlands
Holt	647.5 to 647.5	<0.1	Palustrine Emergent Wetlands
Holt	647.7 to 647.8	<0.1	Palustrine Emergent Wetlands
Holt	647.8 to 647.8	<0.1	Palustrine Emergent Wetlands
Holt	647.9 to 647.9	<0.1	Palustrine Emergent Wetlands
Holt	648 to 648	<0.1	Palustrine Emergent Wetlands
Holt	648.1 to 648.1	<0.1	Palustrine Emergent Wetlands
Holt	648.1 to 648.2	<0.1	Palustrine Emergent Wetlands
Holt	648.3 to 648.3	<0.1	Palustrine Emergent Wetlands
Holt	648.5 to 648.5	<0.1	Palustrine Emergent Wetlands
Holt	648.8 to 648.8	<0.1	Palustrine Emergent Wetlands
Holt	648.9 to 648.9	<0.1	Palustrine Emergent Wetlands
Holt	649 to 649	<0.1	Palustrine Emergent Wetlands
Holt	649.2 to 649.2	<0.1	Palustrine Emergent Wetlands
Holt	649.5 to 649.5	<0.1	Palustrine Emergent Wetlands
Holt	650.8 to 650.8	<0.1	Palustrine Emergent Wetlands
Holt	650.8 to 650.8	<0.1	Palustrine Emergent Wetlands
Holt	651 to 651	<0.1	Palustrine Emergent Wetlands
Holt	651.3 to 651.3	<0.1	Palustrine Emergent Wetlands
Holt	651.4 to 651.4	<0.1	Palustrine Emergent Wetlands
Holt	651.4 to 651.5	<0.1	Palustrine Emergent Wetlands
Holt	651.5 to 651.6	0.1	Palustrine Emergent Wetlands
Holt	651.6 to 651.6	<0.1	Palustrine Emergent Wetlands
Holt	651.6 to 651.6	<0.1	Palustrine Emergent Wetlands
Holt	651.7 to 651.7	<0.1	Palustrine Emergent Wetlands
Holt	651.7 to 651.8	<0.1	Palustrine Emergent Wetlands
Holt	651.9 to 651.9	<0.1	Palustrine Emergent Wetlands

Appendix E-3 Wetlands Along Project Route by Milepost

<b>County</b>	<b>Milepost Range<sup>1</sup></b>	<b>Distance Crossed (miles)<sup>1</sup></b>	<b>Wetlands Type</b>
Holt	652.2 to 652.2	<0.1	Palustrine Emergent Wetlands
Holt	652.2 to 652.3	<0.1	Palustrine Emergent Wetlands
Holt	653 to 653	<0.1	Palustrine Emergent Wetlands
Holt	653.1 to 653.1	<0.1	Palustrine Emergent Wetlands
Holt	653.1 to 653.1	<0.1	Palustrine Emergent Wetlands
Holt	653.1 to 653.2	<0.1	Palustrine Emergent Wetlands
Holt	653.2 to 653.3	<0.1	Palustrine Emergent Wetlands
Holt	653.9 to 653.9	0.1	Palustrine Emergent Wetlands
Holt	654 to 654.1	<0.1	Palustrine Emergent Wetlands
Holt	654.1 to 654.1	<0.1	Palustrine Emergent Wetlands
Holt	654.1 to 654.2	<0.1	Palustrine Emergent Wetlands
Holt	654.2 to 654.2	<0.1	Palustrine Emergent Wetlands
Holt	654.2 to 654.3	<0.1	Palustrine Emergent Wetlands
Holt	654.3 to 654.3	<0.1	Palustrine Emergent Wetlands
Holt	654.4 to 654.6	0.2	Palustrine Emergent Wetlands
Holt	654.6 to 654.6	<0.1	Palustrine Emergent Wetlands
Holt	654.6 to 654.7	0.1	Palustrine Emergent Wetlands
Holt	654.7 to 654.8	0.1	Palustrine Emergent Wetlands
Holt	654.9 to 654.9	<0.1	Palustrine Emergent Wetlands
Holt	655.3 to 655.4	<0.1	Palustrine Emergent Wetlands
Holt	655.7 to 655.8	0.1	Palustrine Emergent Wetlands
Holt	657.6 to 657.7	0.1	Palustrine Emergent Wetlands
Holt	657.7 to 657.7	<0.1	Palustrine Emergent Wetlands
Holt	657.7 to 657.7	<0.1	Palustrine Emergent Wetlands
Holt	657.7 to 657.8	<0.1	Palustrine Emergent Wetlands
Holt	659.9 to 660	0.1	Palustrine Emergent Wetlands
Holt	660.6 to 660.6	<0.1	Palustrine Emergent Wetlands
Holt	660.7 to 660.7	<0.1	Palustrine Emergent Wetlands
Holt	661.1 to 661.2	0.1	Palustrine Emergent Wetlands
Holt	661.4 to 661.4	0.1	Palustrine Emergent Wetlands
Holt	662.9 to 663	0.1	Palustrine Emergent Wetlands
Holt	663 to 663	0.1	Palustrine Emergent Wetlands
Holt	663.3 to 663.3	<0.1	Palustrine Emergent Wetlands
Holt	663.4 to 663.5	0.1	Palustrine Emergent Wetlands
Holt	663.5 to 663.6	0.1	Palustrine Emergent Wetlands
Holt	664.2 to 664.3	<0.1	Palustrine Emergent Wetlands
Holt	665.2 to 665.4	0.1	Palustrine Emergent Wetlands
Holt	665.5 to 665.6	<0.1	Palustrine Emergent Wetlands
Holt	665.7 to 665.7	<0.1	Palustrine Emergent Wetlands

Appendix E-3 Wetlands Along Project Route by Milepost

County	Milepost Range <sup>1</sup>	Distance Crossed (miles) <sup>1</sup>	Wetlands Type
Holt	665.7 to 665.7	<0.1	Palustrine Emergent Wetlands
Holt	665.9 to 666	0.1	Palustrine Emergent Wetlands
Holt	666 to 666.1	<0.1	Palustrine Emergent Wetlands
Holt	667 to 667	<0.1	Palustrine Emergent Wetlands
Holt	667.1 to 667.1	<0.1	Palustrine Emergent Wetlands
Holt	667.1 to 667.2	0.1	Palustrine Emergent Wetlands
Holt	668.7 to 668.8	<0.1	Palustrine Emergent Wetlands
Holt	669 to 669	<0.1	Palustrine Emergent Wetlands
Garfield	670.3 to 670.3	<0.1	Palustrine Emergent Wetlands
Garfield	670.3 to 670.5	0.2	Palustrine Emergent Wetlands
Garfield	670.8 to 670.9	<0.1	Palustrine Emergent Wetlands
Garfield	672.2 to 672.2	<0.1	Palustrine Emergent Wetlands
Garfield	672.5 to 672.5	<0.1	Palustrine Emergent Wetlands
Garfield	672.7 to 672.7	0.1	Palustrine Emergent Wetlands
Garfield	677.5 to 677.5	0.1	Palustrine Emergent Wetlands
Wheeler	687.1 to 687.1	<0.1	Palustrine Emergent Wetlands
Greeley	721.6 to 721.6	<0.1	Palustrine Emergent Wetlands
Nance	740.6 to 740.6	<0.1	Palustrine Emergent Wetlands
Nance	741.6 to 741.6	<0.1	Palustrine Emergent Wetlands
Merrick	756.2 to 756.2	<0.1	Palustrine Forested Wetlands
Merrick	756.3 to 756.4	<0.1	Palustrine Forested Wetlands
Merrick	756.6 to 756.6	<0.1	Palustrine Emergent Wetlands
York	768.3 to 768.4	0.1	Palustrine Emergent Wetlands
York	774.9 to 774.9	<0.1	Palustrine Forested Wetlands
York	774.9 to 775	<0.1	Palustrine Forested Wetlands
York	775.2 to 775.2	<0.1	Palustrine Emergent Wetlands
York	775.2 to 775.3	0.1	Palustrine Emergent Wetlands
York	778 to 778	<0.1	Palustrine Emergent Wetlands
York	786.2 to 786.3	<0.1	Palustrine Emergent Wetlands
Saline	813.2 to 813.2	<0.1	Palustrine Emergent Wetlands
Saline	813.2 to 813.2	<0.1	Palustrine Emergent Wetlands
Saline	813.6 to 813.7	0.1	Palustrine Emergent Wetlands
Jefferson	840.9 to 840.9	<0.1	Palustrine Emergent Wetlands
Jefferson	841 to 841	<0.1	Palustrine Emergent Wetlands
Jefferson	845 to 845	<0.1	Palustrine Forested Wetlands
<b>GULF COAST SEGMENT</b>			
<b>OKLAHOMA</b>			
Lincoln	6.8 to 6.9	<0.1	Palustrine Emergent Wetlands
Lincoln	8.9 to 8.9	<0.1	Palustrine Emergent Wetlands

Appendix E-3 Wetlands Along Project Route by Milepost

<b>County</b>	<b>Milepost Range<sup>1</sup></b>	<b>Distance Crossed (miles)<sup>1</sup></b>	<b>Wetlands Type</b>
Lincoln	9 to 9	<0.1	Palustrine Emergent Wetlands
Lincoln	9.8 to 9.8	<0.1	Palustrine Emergent Wetlands
Lincoln	9.8 to 9.8	<0.1	Palustrine Emergent Wetlands
Lincoln	9.9 to 10	<0.1	Palustrine Emergent Wetlands
Lincoln	10 to 10	<0.1	Palustrine Emergent Wetlands
Lincoln	10.1 to 10.1	<0.1	Palustrine Emergent Wetlands
Lincoln	10.1 to 10.1	<0.1	Palustrine Emergent Wetlands
Lincoln	10.1 to 10.1	<0.1	Palustrine Emergent Wetlands
Lincoln	10.2 to 10.2	<0.1	Palustrine Emergent Wetlands
Lincoln	10.2 to 10.2	<0.1	Palustrine Emergent Wetlands
Lincoln	10.2 to 10.2	<0.1	Palustrine Emergent Wetlands
Lincoln	10.2 to 10.2	<0.1	Palustrine Emergent Wetlands
Lincoln	10.2 to 10.2	<0.1	Palustrine Emergent Wetlands
Lincoln	10.3 to 10.3	<0.1	Palustrine Emergent Wetlands
Lincoln	14.8 to 14.9	<0.1	Palustrine Emergent Wetlands
Creek	21.1 to 21.1	<0.1	Palustrine Emergent Wetlands
Creek	22 to 22.1	<0.1	Palustrine Scrub-Shrub Wetlands
Okfuskee	23.5 to 23.5	<0.1	Palustrine Emergent Wetlands
Okfuskee	23.9 to 23.9	<0.1	Palustrine Scrub-Shrub Wetlands
Okfuskee	28.8 to 28.8	<0.1	Palustrine Emergent Wetlands
Okfuskee	38.2 to 38.2	<0.1	Palustrine Forested Wetlands
Okfuskee	38.2 to 38.3	0.1	Palustrine Forested Wetlands
Okfuskee	38.3 to 38.3	<0.1	Palustrine Forested Wetlands
Okfuskee	38.3 to 38.3	<0.1	Palustrine Forested Wetlands
Okfuskee	38.3 to 38.3	<0.1	Palustrine Emergent Wetlands
Okfuskee	38.3 to 38.3	<0.1	Palustrine Emergent Wetlands
Seminole	38.6 to 38.6	<0.1	Palustrine Forested Wetlands
Seminole	38.6 to 38.7	<0.1	Palustrine Forested Wetlands
Seminole	38.7 to 38.7	<0.1	Palustrine Forested Wetlands
Seminole	40.7 to 40.7	<0.1	Palustrine Emergent Wetlands
Seminole	43.3 to 43.3	<0.1	Palustrine Emergent Wetlands
Seminole	50.1 to 50.1	<0.1	Palustrine Scrub-Shrub Wetlands
Seminole	50.1 to 50.1	<0.1	Palustrine Scrub-Shrub Wetlands
Seminole	56.5 to 56.6	<0.1	Palustrine Emergent Wetlands
Seminole	58.8 to 58.8	<0.1	Palustrine Emergent Wetlands
Seminole	58.9 to 58.9	<0.1	Palustrine Emergent Wetlands
Hughes	60.1 to 60.1	<0.1	Palustrine Emergent Wetlands
Hughes	60.8 to 60.8	<0.1	Palustrine Emergent Wetlands
Hughes	61 to 61	<0.1	Palustrine Emergent Wetlands
Hughes	74.1 to 74.1	0.1	Palustrine Scrub-Shrub Wetlands
Hughes	74.1 to 74.3	0.1	Palustrine Forested Wetlands

Appendix E-3 Wetlands Along Project Route by Milepost

County	Milepost Range <sup>1</sup>	Distance Crossed (miles) <sup>1</sup>	Wetlands Type
Hughes	78.3 to 78.3	<0.1	Palustrine Emergent Wetlands
Hughes	79.4 to 79.4	<0.1	Palustrine Forested Wetlands
Hughes	79.4 to 79.5	<0.1	Palustrine Forested Wetlands
Hughes	79.5 to 79.6	<0.1	Palustrine Forested Wetlands
Hughes	79.6 to 79.6	<0.1	Palustrine Forested Wetlands
Hughes	79.6 to 79.7	0.1	Palustrine Forested Wetlands
Coal	87.3 to 87.3	<0.1	Palustrine Emergent Wetlands
Coal	107.4 to 107.4	<0.1	Palustrine Forested Wetlands
Coal	112.2 to 112.2	<0.1	Palustrine Emergent Wetlands
Atoka	119.3 to 119.3	<0.1	Palustrine Emergent Wetlands
Atoka	122.6 to 122.6	<0.1	Palustrine Forested Wetlands
Atoka	122.7 to 122.7	<0.1	Palustrine Emergent Wetlands
Atoka	126.4 to 126.7	0.3	Palustrine Forested Wetlands
Atoka	126.7 to 126.8	0.1	Palustrine Forested Wetlands
Atoka	126.8 to 126.8	<0.1	Palustrine Forested Wetlands
Atoka	126.9 to 126.9	<0.1	Palustrine Forested Wetlands
Atoka	126.9 to 127.1	0.1	Palustrine Forested Wetlands
Atoka	127.1 to 127.1	<0.1	Palustrine Forested Wetlands
Atoka	127.3 to 127.4	0.1	Palustrine Forested Wetlands
Atoka	131.2 to 131.2	<0.1	Palustrine Emergent Wetlands
Bryan	147 to 147	<0.1	Palustrine Emergent Wetlands
Bryan	147.7 to 147.7	<0.1	Palustrine Emergent Wetlands
Bryan	151 to 151	<0.1	Palustrine Emergent Wetlands
Bryan	155.8 to 155.8	<0.1	Palustrine Forested Wetlands
<b>TEXAS</b>			
Fannin	155.8 to 155.8	<0.1	Palustrine Forested Wetlands
Fannin	155.8 to 156.1	0.3	Palustrine Forested Wetlands
Lamar	169 to 169	<0.1	Palustrine Emergent Wetlands
Lamar	169.4 to 169.4	<0.1	Palustrine Emergent Wetlands
Delta	191.3 to 191.3	<0.1	Palustrine Emergent Wetlands
Delta	194.2 to 194.2	<0.1	Palustrine Scrub-Shrub Wetlands
Delta	194.3 to 194.3	<0.1	Palustrine Scrub-Shrub Wetlands
Delta	194.3 to 194.4	0.1	Palustrine Scrub-Shrub Wetlands
Delta	200.6 to 200.6	<0.1	Palustrine Scrub-Shrub Wetlands
Delta	201 to 201	<0.1	Palustrine Forested Wetlands
Delta	201.5 to 201.6	0.1	Palustrine Scrub-Shrub Wetlands
Delta	201.6 to 201.6	<0.1	Palustrine Scrub-Shrub Wetlands
Delta	201.6 to 201.6	<0.1	Palustrine Forested Wetlands
Delta	201.7 to 201.7	<0.1	Palustrine Emergent Wetlands

Appendix E-3 Wetlands Along Project Route by Milepost

<b>County</b>	<b>Milepost Range<sup>1</sup></b>	<b>Distance Crossed (miles)<sup>1</sup></b>	<b>Wetlands Type</b>
Hopkins	201.9 to 201.9	<0.1	Palustrine Forested Wetlands
Hopkins	201.9 to 201.9	<0.1	Palustrine Forested Wetlands
Hopkins	202 to 202	<0.1	Palustrine Forested Wetlands
Hopkins	202 to 202.1	0.1	Palustrine Forested Wetlands
Hopkins	202.2 to 202.2	<0.1	Palustrine Emergent Wetlands
Hopkins	202.2 to 202.2	<0.1	Palustrine Emergent Wetlands
Hopkins	203 to 203.2	0.1	Palustrine Scrub-Shrub Wetlands
Hopkins	203.2 to 203.2	0.1	Palustrine Scrub-Shrub Wetlands
Hopkins	203.3 to 203.3	<0.1	Palustrine Scrub-Shrub Wetlands
Hopkins	206.4 to 206.4	<0.1	Palustrine Emergent Wetlands
Hopkins	210.4 to 210.4	<0.1	Palustrine Emergent Wetlands
Hopkins	212.6 to 212.8	0.2	Palustrine Forested Wetlands
Hopkins	212.8 to 213.6	0.8	Palustrine Forested Wetlands
Hopkins	216.9 to 216.9	<0.1	Palustrine Emergent Wetlands
Hopkins	217.2 to 217.2	<0.1	Palustrine Forested Wetlands
Hopkins	217.2 to 217.2	<0.1	Palustrine Forested Wetlands
Hopkins	217.8 to 217.9	<0.1	Palustrine Forested Wetlands
Franklin	223 to 223	<0.1	Palustrine Emergent Wetlands
Franklin	226 to 226	<0.1	Palustrine Emergent Wetlands
Franklin	226.1 to 226.1	<0.1	Palustrine Emergent Wetlands
Franklin	226.1 to 226.2	0.1	Palustrine Emergent Wetlands
Franklin	226.3 to 226.4	<0.1	Palustrine Forested Wetlands
Franklin	226.4 to 226.4	<0.1	Palustrine Forested Wetlands
Franklin	226.6 to 226.7	<0.1	Palustrine Forested Wetlands
Franklin	226.7 to 226.8	0.1	Palustrine Forested Wetlands
Franklin	226.8 to 226.9	0.2	Palustrine Forested Wetlands
Franklin	228.3 to 228.3	<0.1	Palustrine Forested Wetlands
Franklin	228.3 to 228.5	0.2	Palustrine Forested Wetlands
Franklin	228.8 to 228.9	<0.1	Palustrine Emergent Wetlands
Franklin	228.9 to 228.9	<0.1	Palustrine Forested Wetlands
Franklin	228.9 to 228.9	<0.1	Palustrine Forested Wetlands
Franklin	228.9 to 228.9	<0.1	Palustrine Forested Wetlands
Franklin	231.6 to 231.6	<0.1	Palustrine Emergent Wetlands
Franklin	231.6 to 231.7	0.1	Palustrine Forested Wetlands
Franklin	231.7 to 231.8	0.1	Palustrine Forested Wetlands
Franklin	231.8 to 231.9	0.1	Palustrine Forested Wetlands
Franklin	232.9 to 232.9	<0.1	Palustrine Forested Wetlands
Wood	234.6 to 234.7	0.1	Palustrine Forested Wetlands
Wood	241.4 to 241.4	<0.1	Palustrine Forested Wetlands

Appendix E-3 Wetlands Along Project Route by Milepost

<b>County</b>	<b>Milepost Range<sup>1</sup></b>	<b>Distance Crossed (miles)<sup>1</sup></b>	<b>Wetlands Type</b>
Wood	241.4 to 241.5	<0.1	Palustrine Forested Wetlands
Wood	242.1 to 242.1	<0.1	Palustrine Forested Wetlands
Wood	246.4 to 246.4	<0.1	Palustrine Scrub-Shrub Wetlands
Wood	246.4 to 246.4	<0.1	Palustrine Scrub-Shrub Wetlands
Upshur	256.9 to 256.9	<0.1	Palustrine Forested Wetlands
Upshur	256.9 to 256.9	<0.1	Palustrine Forested Wetlands
Upshur	256.9 to 257	<0.1	Palustrine Forested Wetlands
Upshur	257.2 to 257.2	<0.1	Palustrine Forested Wetlands
Wood	257.2 to 257.2	<0.1	Palustrine Forested Wetlands
Wood	257.2 to 257.2	<0.1	Palustrine Forested Wetlands
Wood	257.2 to 257.2	<0.1	Palustrine Forested Wetlands
Wood	257.2 to 257.2	<0.1	Palustrine Emergent Wetlands
Wood	257.3 to 257.3	<0.1	Palustrine Forested Wetlands
Wood	257.3 to 257.3	<0.1	Palustrine Forested Wetlands
Wood	257.4 to 257.4	<0.1	Palustrine Forested Wetlands
Wood	257.4 to 257.4	<0.1	Palustrine Emergent Wetlands
Wood	257.5 to 257.5	<0.1	Palustrine Emergent Wetlands
Upshur	259.3 to 259.3	<0.1	Palustrine Emergent Wetlands
Upshur	262.4 to 262.4	<0.1	Palustrine Forested Wetlands
Upshur	262.5 to 262.5	<0.1	Palustrine Emergent Wetlands
Upshur	262.5 to 262.7	0.2	Palustrine Emergent Wetlands
Upshur	262.9 to 262.9	<0.1	Palustrine Scrub-Shrub Wetlands
Upshur	263 to 263	0.1	Palustrine Forested Wetlands
Upshur	263.3 to 263.4	0.1	Palustrine Emergent Wetlands
Smith	265.7 to 265.7	<0.1	Palustrine Emergent Wetlands
Smith	265.7 to 265.7	<0.1	Palustrine Emergent Wetlands
Smith	268.6 to 268.7	0.1	Palustrine Forested Wetlands
Smith	268.7 to 268.8	0.1	Palustrine Forested Wetlands
Smith	268.8 to 268.8	<0.1	Palustrine Emergent Wetlands
Smith	270.6 to 270.6	<0.1	Palustrine Emergent Wetlands
Smith	273.6 to 273.7	<0.1	Palustrine Emergent Wetlands
Smith	273.7 to 273.7	<0.1	Palustrine Emergent Wetlands
Smith	274.1 to 274.2	<0.1	Palustrine Emergent Wetlands
Smith	275.7 to 275.7	<0.1	Palustrine Forested Wetlands
Smith	276.6 to 276.7	<0.1	Palustrine Emergent Wetlands
Smith	276.9 to 277	0.1	Palustrine Emergent Wetlands
Smith	277.3 to 277.4	0.1	Palustrine Emergent Wetlands
Smith	277.5 to 277.5	<0.1	Palustrine Forested Wetlands
Smith	278.4 to 278.4	<0.1	Palustrine Forested Wetlands

Appendix E-3 Wetlands Along Project Route by Milepost

<b>County</b>	<b>Milepost Range<sup>1</sup></b>	<b>Distance Crossed (miles)<sup>1</sup></b>	<b>Wetlands Type</b>
Smith	278.7 to 278.8	0.1	Palustrine Emergent Wetlands
Smith	278.9 to 278.9	<0.1	Palustrine Emergent Wetlands
Cherokee	294.1 to 294.1	<0.1	Palustrine Emergent Wetlands
Cherokee	294.1 to 294.1	<0.1	Palustrine Emergent Wetlands
Cherokee	294.3 to 294.3	<0.1	Palustrine Emergent Wetlands
Cherokee	297.7 to 297.7	<0.1	Palustrine Forested Wetlands
Cherokee	298.4 to 298.5	0.1	Palustrine Forested Wetlands
Cherokee	298.6 to 298.6	0.1	Palustrine Forested Wetlands
Cherokee	298.8 to 298.8	<0.1	Palustrine Forested Wetlands
Cherokee	298.9 to 299.2	0.3	Palustrine Forested Wetlands
Cherokee	300.8 to 300.9	0.1	Palustrine Forested Wetlands
Cherokee	300.9 to 300.9	<0.1	Palustrine Forested Wetlands
Rusk	300.9 to 300.9	<0.1	Palustrine Forested Wetlands
Rusk	300.9 to 301	0.1	Palustrine Forested Wetlands
Rusk	301 to 301.3	0.3	Palustrine Forested Wetlands
Rusk	301.3 to 301.7	0.4	Palustrine Forested Wetlands
Rusk	302 to 302	<0.1	Palustrine Scrub-Shrub Wetlands
Rusk	302 to 302	<0.1	Palustrine Forested Wetlands
Rusk	302 to 302.1	<0.1	Palustrine Forested Wetlands
Rusk	308.1 to 308.1	<0.1	Palustrine Forested Wetlands
Rusk	308.1 to 308.2	0.1	Palustrine Forested Wetlands
Rusk	311.4 to 311.9	0.5	Palustrine Forested Wetlands
Rusk	311.9 to 312	0.1	Palustrine Forested Wetlands
Rusk	312 to 312.1	<0.1	Palustrine Forested Wetlands
Rusk	312.1 to 312.1	<0.1	Palustrine Forested Wetlands
Rusk	312.1 to 312.2	0.1	Palustrine Forested Wetlands
Rusk	312.2 to 312.4	0.3	Palustrine Forested Wetlands
Rusk	312.5 to 312.7	0.3	Palustrine Forested Wetlands
Rusk	313.4 to 313.6	0.2	Palustrine Forested Wetlands
Rusk	313.6 to 313.7	0.1	Palustrine Forested Wetlands
Rusk	313.7 to 313.7	<0.1	Palustrine Forested Wetlands
Nacogdoches	316.6 to 316.6	<0.1	Palustrine Emergent Wetlands
Nacogdoches	316.6 to 316.6	<0.1	Palustrine Forested Wetlands
Nacogdoches	316.6 to 316.6	<0.1	Palustrine Forested Wetlands
Nacogdoches	316.9 to 316.9	<0.1	Palustrine Forested Wetlands
Nacogdoches	319.8 to 319.8	<0.1	Palustrine Emergent Wetlands
Nacogdoches	334.1 to 334.1	<0.1	Palustrine Forested Wetlands
Cherokee	334.7 to 334.7	<0.1	Palustrine Emergent Wetlands
Cherokee	334.7 to 334.7	<0.1	Palustrine Forested Wetlands

Appendix E-3 Wetlands Along Project Route by Milepost

<b>County</b>	<b>Milepost Range<sup>1</sup></b>	<b>Distance Crossed (miles)<sup>1</sup></b>	<b>Wetlands Type</b>
Cherokee	334.8 to 334.8	<0.1	Palustrine Forested Wetlands
Cherokee	335 to 335	<0.1	Palustrine Forested Wetlands
Cherokee	335.2 to 335.2	<0.1	Palustrine Forested Wetlands
Cherokee	336.1 to 336.3	0.3	Palustrine Forested Wetlands
Cherokee	336.4 to 336.4	0.1	Palustrine Forested Wetlands
Cherokee	336.5 to 337.3	0.7	Palustrine Forested Wetlands
Angelina	347.7 to 347.7	<0.1	Palustrine Emergent Wetlands
Angelina	348.1 to 348.1	<0.1	Palustrine Emergent Wetlands
Angelina	348.1 to 348.2	0.1	Palustrine Forested Wetlands
Angelina	349.3 to 349.3	<0.1	Palustrine Forested Wetlands
Angelina	349.8 to 349.8	<0.1	Palustrine Scrub-Shrub Wetlands
Angelina	352.1 to 352.2	0.1	Palustrine Emergent Wetlands
Angelina	352.2 to 352.2	<0.1	Palustrine Forested Wetlands
Angelina	352.2 to 352.7	0.5	Palustrine Forested Wetlands
Angelina	353.2 to 353.2	<0.1	Palustrine Forested Wetlands
Angelina	361.1 to 361.1	<0.1	Palustrine Forested Wetlands
Angelina	361.1 to 361.2	0.1	Palustrine Forested Wetlands
Angelina	361.2 to 361.5	0.3	Palustrine Forested Wetlands
Angelina	363.4 to 363.4	<0.1	Palustrine Forested Wetlands
Angelina	363.5 to 363.5	<0.1	Palustrine Forested Wetlands
Angelina	363.6 to 363.9	0.3	Palustrine Forested Wetlands
Angelina	365.6 to 365.6	<0.1	Palustrine Scrub-Shrub Wetlands
Angelina	365.7 to 365.7	<0.1	Palustrine Scrub-Shrub Wetlands
Angelina	366.1 to 366.4	0.3	Palustrine Forested Wetlands
Angelina	366.4 to 366.7	0.2	Palustrine Forested Wetlands
Angelina	366.7 to 366.8	0.1	Palustrine Emergent Wetlands
Angelina	366.9 to 366.9	<0.1	Palustrine Emergent Wetlands
Angelina	368 to 368.1	0.2	Palustrine Forested Wetlands
Polk	377.7 to 377.8	0.2	Palustrine Forested Wetlands
Polk	377.9 to 378	0.1	Palustrine Forested Wetlands
Polk	386.4 to 386.4	<0.1	Palustrine Forested Wetlands
Polk	397.1 to 397.1	<0.1	Palustrine Forested Wetlands
Polk	397.1 to 397.1	<0.1	Palustrine Forested Wetlands
Polk	397.1 to 397.2	<0.1	Palustrine Forested Wetlands
Polk	397.2 to 397.2	<0.1	Palustrine Forested Wetlands
Polk	397.2 to 397.5	0.3	Palustrine Forested Wetlands
Polk	404.1 to 404.1	<0.1	Palustrine Forested Wetlands
Polk	404.1 to 404.2	0.1	Palustrine Forested Wetlands
Polk	404.2 to 404.3	<0.1	Palustrine Emergent Wetlands

Appendix E-3 Wetlands Along Project Route by Milepost

<b>County</b>	<b>Milepost Range<sup>1</sup></b>	<b>Distance Crossed (miles)<sup>1</sup></b>	<b>Wetlands Type</b>
Polk	404.3 to 404.3	<0.1	Palustrine Forested Wetlands
Polk	404.5 to 404.6	0.1	Palustrine Forested Wetlands
Polk	404.6 to 404.6	<0.1	Palustrine Forested Wetlands
Polk	404.7 to 404.7	<0.1	Palustrine Forested Wetlands
Polk	404.7 to 404.8	<0.1	Palustrine Forested Wetlands
Polk	404.8 to 404.8	<0.1	Palustrine Forested Wetlands
Polk	404.9 to 405	0.1	Palustrine Forested Wetlands
Polk	405.9 to 405.9	<0.1	Palustrine Forested Wetlands
Polk	406.1 to 406.3	0.3	Palustrine Forested Wetlands
Polk	406.4 to 406.4	0.1	Palustrine Forested Wetlands
Polk	407 to 407.1	0.1	Palustrine Forested Wetlands
Polk	407.1 to 407.2	<0.1	Palustrine Forested Wetlands
Polk	407.2 to 407.2	0.1	Palustrine Forested Wetlands
Polk	407.2 to 407.2	<0.1	Palustrine Forested Wetlands
Polk	407.2 to 407.2	<0.1	Palustrine Forested Wetlands
Polk	407.2 to 407.3	<0.1	Palustrine Forested Wetlands
Polk	407.3 to 407.3	<0.1	Palustrine Forested Wetlands
Polk	407.3 to 407.3	<0.1	Palustrine Emergent Wetlands
Polk	408.7 to 408.8	0.1	Palustrine Forested Wetlands
Polk	409.2 to 409.3	0.1	Palustrine Forested Wetlands
Polk	409.7 to 409.7	<0.1	Palustrine Emergent Wetlands
Polk	410.4 to 410.5	<0.1	Palustrine Emergent Wetlands
Polk	410.7 to 410.8	<0.1	Palustrine Emergent Wetlands
Polk	413 to 413	<0.1	Palustrine Emergent Wetlands
Liberty	418.9 to 418.9	<0.1	Palustrine Forested Wetlands
Liberty	419.8 to 419.9	<0.1	Palustrine Emergent Wetlands
Liberty	419.9 to 419.9	<0.1	Palustrine Forested Wetlands
Liberty	419.9 to 419.9	<0.1	Palustrine Forested Wetlands
Liberty	420.1 to 420.1	<0.1	Palustrine Emergent Wetlands
Liberty	420.1 to 420.1	<0.1	Palustrine Emergent Wetlands
Liberty	420.8 to 420.8	<0.1	Palustrine Forested Wetlands
Liberty	421 to 421.1	0.1	Palustrine Forested Wetlands
Liberty	421.1 to 421.3	0.2	Palustrine Forested Wetlands
Liberty	421.3 to 421.3	<0.1	Palustrine Emergent Wetlands
Liberty	421.3 to 421.6	0.3	Palustrine Forested Wetlands
Liberty	421.6 to 421.6	<0.1	Palustrine Forested Wetlands
Liberty	423.7 to 423.7	<0.1	Palustrine Emergent Wetlands
Liberty	424.4 to 425.7	1.2	Palustrine Forested Wetlands
Liberty	425.7 to 426.6	0.9	Palustrine Emergent Wetlands

Appendix E-3 Wetlands Along Project Route by Milepost

<b>County</b>	<b>Milepost Range<sup>1</sup></b>	<b>Distance Crossed (miles)<sup>1</sup></b>	<b>Wetlands Type</b>
Liberty	426.6 to 427.3	0.7	Palustrine Forested Wetlands
Liberty	427.3 to 428.5	1.2	Palustrine Forested Wetlands
Liberty	429.5 to 429.8	0.3	Palustrine Forested Wetlands
Liberty	430.2 to 431	0.8	Palustrine Forested Wetlands
Liberty	431 to 431.2	0.2	Palustrine Forested Wetlands
Liberty	431.2 to 431.7	0.5	Palustrine Forested Wetlands
Liberty	431.7 to 432.1	0.4	Palustrine Forested Wetlands
Liberty	434.8 to 434.8	<0.1	Palustrine Emergent Wetlands
Liberty	435.8 to 435.8	<0.1	Transition
Liberty	435.8 to 435.8	<0.1	Transition
Liberty	435.8 to 435.8	<0.1	Transition
Liberty	436.3 to 437.5	1.1	Palustrine Forested Wetlands
Liberty	437.5 to 438.3	0.9	Palustrine Forested Wetlands
Liberty	438.9 to 438.9	<0.1	Palustrine Emergent Wetlands
Liberty	439.1 to 439.2	0.1	Palustrine Forested Wetlands
Liberty	439.2 to 439.2	<0.1	Palustrine Emergent Wetlands
Liberty	439.2 to 439.2	<0.1	Palustrine Forested Wetlands
Hardin	440.6 to 440.7	0.2	Palustrine Forested Wetlands
Hardin	440.7 to 440.8	0.1	Palustrine Forested Wetlands
Hardin	441.4 to 442	0.5	Palustrine Forested Wetlands
Hardin	444.4 to 444.9	0.5	Palustrine Emergent Wetlands
Hardin	446.7 to 446.7	<0.1	Palustrine Emergent Wetlands
Hardin	448.4 to 448.6	0.2	Palustrine Forested Wetlands
Hardin	448.6 to 448.7	0.1	Palustrine Emergent Wetlands
Hardin	448.7 to 449	0.3	Palustrine Forested Wetlands
Hardin	449.1 to 449.1	<0.1	Palustrine Forested Wetlands
Hardin	449.1 to 449.1	<0.1	Palustrine Forested Wetlands
Hardin	449.1 to 449.1	0.1	Palustrine Forested Wetlands
Liberty	451.3 to 451.5	0.2	Palustrine Forested Wetlands
Liberty	451.6 to 451.6	<0.1	Palustrine Forested Wetlands
Liberty	451.7 to 451.8	0.1	Palustrine Forested Wetlands
Liberty	451.8 to 451.9	0.1	Palustrine Forested Wetlands
Liberty	451.9 to 451.9	<0.1	Palustrine Forested Wetlands
Jefferson	451.9 to 451.9	<0.1	Palustrine Forested Wetlands
Jefferson	454.5 to 455.2	0.7	Palustrine Forested Wetlands
Jefferson	459.2 to 459.5	0.3	Palustrine Forested Wetlands
Jefferson	459.7 to 459.8	0.1	Palustrine Forested Wetlands
Jefferson	459.9 to 459.9	<0.1	Palustrine Forested Wetlands
Jefferson	464.6 to 464.7	0.1	Palustrine Scrub-Shrub Wetlands

Appendix E-3 Wetlands Along Project Route by Milepost

<b>County</b>	<b>Milepost Range<sup>1</sup></b>	<b>Distance Crossed (miles)<sup>1</sup></b>	<b>Wetlands Type</b>
Jefferson	465.4 to 465.4	<0.1	Palustrine Emergent Wetlands
Jefferson	465.5 to 465.8	0.3	Palustrine Scrub-Shrub Wetlands
Jefferson	465.8 to 466.1	0.3	Palustrine Scrub-Shrub Wetlands
Jefferson	466.1 to 466.3	0.2	Palustrine Scrub-Shrub Wetlands
Jefferson	466.3 to 466.4	<0.1	Palustrine Forested Wetlands
Jefferson	467.2 to 467.2	<0.1	Palustrine Emergent Wetlands
Jefferson	472 to 472.1	0.1	Palustrine Forested Wetlands
Jefferson	472.5 to 472.6	0.1	Palustrine Forested Wetlands
Jefferson	472.6 to 472.8	0.2	Palustrine Forested Wetlands
Jefferson	472.8 to 473.1	0.4	Palustrine Forested Wetlands
Jefferson	473.2 to 473.2	0.1	Palustrine Scrub-Shrub Wetlands
Jefferson	474.6 to 474.6	<0.1	Palustrine Forested Wetlands
Jefferson	474.8 to 474.9	0.1	Palustrine Forested Wetlands
Jefferson	474.9 to 475.1	0.2	Palustrine Forested Wetlands
Jefferson	475.9 to 476.9	1	Palustrine Scrub-Shrub Wetlands
Jefferson	478.3 to 478.4	0.1	Palustrine Forested Wetlands
Jefferson	478.8 to 478.8	<0.1	Palustrine Emergent Wetlands
Jefferson	482.4 to 482.6	0.2	Palustrine Forested Wetlands
Jefferson	482.8 to 482.8	<0.1	Palustrine Forested Wetlands
Jefferson	483.3 to 483.4	0.1	Palustrine Forested Wetlands
Jefferson	483.4 to 483.5	0.1	Palustrine Forested Wetlands

<sup>1</sup> Lands of same classification type crossed were grouped when located with less than 0.2 mile between. Distance crossed reflects the sum of the actual distance within the referenced mileposts.

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
<b>Steele City Segment</b>				
<b>Montana</b>				
Phillips	FRENCHMAN CREEK	25.40	Frenchman Reservoir	Pipeline passes approx. 0.5 mile upstream on Frenchman Cr.
Valley	BEAR CREEK	52.47	Reservoir Number Four	Pipeline passes within 0.1 mile of reservoir
Valley	UNNAMED TRIBUTARY TO BEAR CREEK	52.58	Reservoir Number Four	Pipeline passes within 0.1 mile of reservoir
Valley	MILK RIVER	82.95	Unnamed Reservoir	Pipeline passes within approx. 0.1 mile of oxbow on floodplain
McCone	UNNAMED TRIBUTARY TO BEAR CREEK	102.27	Fort Peck Lake and Charles M. Russell Wildlife Refuge	Highway 24 is located between Project and Reservoir
McCone	UNNAMED TRIBUTARY TO BEAR CREEK	102.73	Fort Peck Lake and Charles M. Russell Wildlife Refuge	Highway 24 is located between Project and Reservoir
McCone	UNNAMED TRIBUTARY TO BEAR CREEK	102.78	Fort Peck Lake and Charles M. Russell Wildlife Refuge	Highway 24 is located between Project and Reservoir
McCone	UNNAMED TRIBUTARY TO BEAR CREEK	103.18	Fort Peck Lake and Charles M. Russell Wildlife Refuge	Highway 24 is located between Project and Reservoir
McCone	BEAR CREEK	105.61	Fort Peck Lake and Charles M. Russell Wildlife Refuge	Highway 24 is located between Project and Reservoir

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

<b>State/County</b>	<b>Stream Crossing Point</b>	<b>Approximate Milepost</b>	<b>Downstream Reservoir/ Fishery/Wildlife Area</b>	<b>Other Description</b>
McCone	BEAR CREEK	105.62	Fort Peck Lake and Charles M. Russell Wildlife Refuge	Highway 24 is located between Project and Reservoir
McCone	UNNAMED TRIBUTARY TO NORTH PRONG SHADE CREEK	107.44	North Dam	Pipeline passes within 0.1 mile of reservoir
McCone	UNNAMED TRIBUTARY TO NORTH PRONG SHADE CREEK	107.63	North Dam	Pipeline passes within 0.1 mile of reservoir
McCone	UNNAMED TRIBUTARY TO NORTH PRONG SHADE CREEK	107.68	North Dam	Pipeline passes within 0.1 mile of reservoir
McCone	UNNAMED TRIBUTARY TO NORTH PRONG SHADE CREEK	107.78	North Dam	Pipeline passes within 0.1 mile of reservoir
McCone	UNNAMED TRIBUTARY TO NORTH PRONG SHADE CREEK	107.79	North Dam	Pipeline passes within 0.1 mile of reservoir
McCone	UNNAMED TRIBUTARY TO NORTH PRONG SHADE CREEK	108.15	North Dam	Pipeline passes within 0.1 mile of reservoir
McCone	NORTH PRONG SHADE CREEK	108.58	North Dam	Pipeline passes within 0.1 mile of reservoir
McCone	SHADE CREEK	110.72		Pipeline passes within 0.1 mile of reservoir
McCone	SHADE CREEK	110.74		Pipeline passes within 0.1 mile of reservoir
McCone	SHADE CREEK	110.77		Pipeline passes within 0.1 mile of reservoir
McCone	UNNAMED TRIBUTARY TO SHADE CREEK	110.80		Pipeline passes within 0.1 mile of reservoir
McCone	UNNAMED TRIBUTARY TO SHADE CREEK	111.71		Pipeline passes within 0.1 mile of reservoir
McCone	UNNAMED TRIBUTARY TO SHADE CREEK	111.73		Pipeline passes within

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
				0.1 mile of reservoir
McCone	UNNAMED TRIBUTARY TO SHADE CREEK	111.92		Pipeline passes within 0.1 mile of reservoir
McCone	UNNAMED TRIBUTARY TO SHADE CREEK	112.14		Pipeline passes within 0.1 mile of reservoir
McCone	UNNAMED TRIBUTARY TO SHADE CREEK	112.41		Pipeline passes within 0.1 mile of reservoir
McCone	UNNAMED TRIBUTARY TO SHADE CREEK	112.44		Pipeline passes within 0.1 mile of reservoir
McCone	SOUTH FORK SHADE CREEK	114.55	Christianson Reservoir	Pipeline passes within 0.1 mile of reservoir
McCone	UNNAMED TRIBUTARY TO SOUTH FORK SHADE CREEK	115.81	Christianson Reservoir	Pipeline passes within 0.1 mile of reservoir
McCone	UNNAMED TRIBUTARY TO SOUTH FORK SHADE CREEK	115.90	Christianson Reservoir	Pipeline passes within 0.1 mile of reservoir
McCone	UNNAMED TRIBUTARY TO SOUTH FORK SHADE CREEK	116.25	Christianson Reservoir	Pipeline passes within 0.1 mile of reservoir
McCone	UNNAMED TRIBUTARY TO SOUTH FORK SHADE CREEK	116.41	Christianson Reservoir	Pipeline passes within 0.1 mile of reservoir
McCone	UNNAMED TRIBUTARY TO SOUTH FORK SHADE CREEK	117.17	Christianson Reservoir	Pipeline passes within 0.1 mile of reservoir
McCone	UNNAMED TRIBUTARY TO LOST CREEK	134.78	Unnamed Reservoir	Downstream from Haynie Reservoir, with add'l tribs.
McCone	UNNAMED TRIBUTARY TO LOST CREEK	136.60	Unnamed Reservoir	Downstream from Haynie Reservoir, with add'l tribs.

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
McCone	UNNAMED TRIBUTARY TO LOST CREEK	138.65	Unnamed Reservoir	Downstream from Haynie Reservoir, with add'l tribs.
McCone	UNNAMED TRIBUTARY TO LOST CREEK	139.19	Unnamed Reservoir	Downstream from Haynie Reservoir, with add'l tribs.
McCone	UNNAMED TRIBUTARY TO LOST CREEK	139.75	Unnamed Reservoir	Downstream from Haynie Reservoir, with add'l tribs.
Dawson	UPPER SEVEN MILE CREEK	166.59	Lindsay Reservoir	Approx. 10 river miles downstream
Fallon	UNNAMED TRIBUTARY TO RED BUTTE CREEK	246.45	Red Butte Dam	
Fallon	RED BUTTE CREEK	246.51	Red Butte Dam	
Fallon	UNNAMED TRIBUTARY TO RED BUTTE CREEK	246.65	Red Butte Dam	
Fallon	UNNAMED TRIBUTARY TO RED BUTTE CREEK	249.00	Red Butte Dam	
Fallon	RED BUTTE CREEK	250.20	Red Butte Dam	
Fallon	RED BUTTE CREEK	250.22	Red Butte Dam	
Fallon	RED BUTTE CREEK	250.27	Red Butte Dam	
Fallon	RED BUTTE CREEK	250.90	Red Butte Dam	
Fallon	RED BUTTE CREEK	251.11	Red Butte Dam	
Fallon	RED BUTTE CREEK	251.12	Red Butte Dam	
Fallon	RED BUTTE CREEK	251.13	Red Butte Dam	
Fallon	RED BUTTE CREEK	251.20	Red Butte Dam	
Fallon	RED BUTTE CREEK	251.28	Red Butte Dam	
Fallon	UNNAMED TRIBUTARY TO RED BUTTE CREEK	251.45	Red Butte Dam	
Fallon	UNNAMED TRIBUTARY TO RED BUTTE CREEK	251.91	Red Butte Dam	

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
Fallon	UNNAMED TRIBUTARY TO RED BUTTE CREEK	252.45	Red Butte Dam	
<b>South Dakota</b>				
Harding	UNNAMED TRIBUTARY TO JONES CREEK	303.27	Unnamed Reservoir	Approx. 10 river miles downstream
Harding	UNNAMED TRIBUTARY TO JONES CREEK	303.95	Unnamed Reservoir	Approx. 10 river miles downstream
Harding	UNNAMED TRIBUTARY TO JONES CREEK	304.22	Unnamed Reservoir	Approx. 10 river miles downstream
Harding	UNNAMED TRIBUTARY TO JONES CREEK	304.75	Unnamed Reservoir	Approx. 10 river miles downstream
Harding	UNNAMED TRIBUTARY TO JONES CREEK	306.09	Unnamed Reservoir	Approx. 10 river miles downstream
Harding	UNNAMED TRIBUTARY TO JONES CREEK	306.65	Unnamed Reservoir	Approx. 10 river miles downstream
Harding	UNNAMED TRIBUTARY TO JONES CREEK	307.43	Unnamed Reservoir	Approx. 10 river miles downstream
Harding	UNNAMED TRIBUTARY TO RUSH CREEK	308.21	Lake Gardner	
Harding	UNNAMED TRIBUTARY TO RUSH CREEK	308.28	Lake Gardner	
Harding	UNNAMED TRIBUTARY TO RUSH CREEK	308.60	Lake Gardner	
Harding	UNNAMED TRIBUTARY TO RUSH CREEK	308.70	Lake Gardner	
Harding	UNNAMED TRIBUTARY TO RUSH CREEK	309.13	Lake Gardner	
Harding	UNNAMED TRIBUTARY TO RUSH CREEK	309.55	Lake Gardner	
Harding	UNNAMED TRIBUTARY TO RUSH CREEK	311.67	Lake Gardner	
Harding	WEST SQUAW CREEK	328.67	Unnamed Reservoir	State Experiment Farm and Antelope Reserve

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

<b>State/County</b>	<b>Stream Crossing Point</b>	<b>Approximate Milepost</b>	<b>Downstream Reservoir/ Fishery/Wildlife Area</b>	<b>Other Description</b>
Harding	WEST SQUAW CREEK	328.74	Unnamed Reservoir	State Experiment Farm and Antelope Reserve
Harding	WEST SQUAW CREEK	328.82	Unnamed Reservoir	State Experiment Farm and Antelope Reserve
Harding	WEST SQUAW CREEK	328.83	Unnamed Reservoir	State Experiment Farm and Antelope Reserve
Harding	WEST SQUAW CREEK	328.86	Unnamed Reservoir	State Experiment Farm and Antelope Reserve
Harding	UNNAMED TRIBUTARY TO WEST SQUAW CREEK	329.07	Unnamed Reservoir	State Experiment Farm and Antelope Reserve
Harding	UNNAMED TRIBUTARY TO WEST SQUAW CREEK	329.09	Unnamed Reservoir	State Experiment Farm and Antelope Reserve
Harding	UNNAMED TRIBUTARY TO WEST SQUAW CREEK	329.33	Unnamed Reservoir	State Experiment Farm and Antelope Reserve
Harding	UNNAMED TRIBUTARY TO WEST SQUAW CREEK	330.34	Unnamed Reservoir	State Experiment Farm and Antelope Reserve
Harding	UNNAMED TRIBUTARY TO WEST SQUAW CREEK	330.53	Unnamed Reservoir	State Experiment Farm and Antelope Reserve
Harding	UNNAMED TRIBUTARY TO WEST SQUAW CREEK	330.62	Unnamed Reservoir	State Experiment Farm and Antelope Reserve
Harding	UNNAMED TRIBUTARY TO WEST SQUAW CREEK	331.01	Unnamed Reservoir	State Experiment Farm and Antelope Reserve
Harding	UNNAMED TRIBUTARY TO WEST SQUAW CREEK	331.12	Unnamed Reservoir	State Experiment Farm and Antelope Reserve

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
Harding	UNNAMED TRIBUTARY TO WEST SQUAW CREEK	331.32	Unnamed Reservoir	State Experiment Farm and Antelope Reserve
Harding	UNNAMED TRIBUTARY TO WEST SQUAW CREEK	331.70	Unnamed Reservoir	State Experiment Farm and Antelope Reserve
Harding	UNNAMED TRIBUTARY TO WEST SQUAW CREEK	331.91	Unnamed Reservoir	State Experiment Farm and Antelope Reserve
Harding	UNNAMED TRIBUTARY TO WEST SQUAW CREEK	331.98	Unnamed Reservoir	State Experiment Farm and Antelope Reserve
Haakon	WITCHER HOLES CREEK	460.92	Unnamed Reservoir	
Haakon	WITCHER HOLES CREEK	460.94	Unnamed Reservoir	
Haakon	UNNAMED TRIBUTARY TO WITCHER HOLES CREEK	461.63	Unnamed Reservoir	
<b>Nebraska</b>				
Holt	UNNAMED TRIBUTARY TO NORTH BRANCH ELKHORN RIVER	628.81	Atkinson Reservoir	Atkinson Lake Recreation Area
Holt	NORTH BRANCH ELKHORN RIVER	628.92	Atkinson Reservoir	Atkinson Lake Recreation Area
Holt	UNNAMED TRIBUTARY TO SOUTH BRANCH ELKHORN RIVER	630.16	Atkinson Reservoir	Atkinson Lake Recreation Area
Holt	SOUTH FORK ELKHORN RIVER	630.46	Atkinson Reservoir	Atkinson Lake Recreation Area
Holt	UNNAMED TRIBUTARY TO SOUTH BRANCH ELKHORN RIVER	630.69	Atkinson Reservoir	Atkinson Lake Recreation Area
Holt	UNNAMED TRIBUTARY TO KEEGAN CREEK	634.18	Atkinson Reservoir	Atkinson Lake Recreation Area
Holt	KEEGAN CREEK	636.33	Atkinson Reservoir	Atkinson Lake Recreation Area

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
Holt	KEEGAN CREEK	636.35	Atkinson Reservoir	Atkinson Lake Recreation Area
Holt	KEEGAN CREEK	636.36	Atkinson Reservoir	Atkinson Lake Recreation Area
York	UNNAMED TRIBUTARY TO BEAVER CREEK	778.02	Unnamed Reservoir	
York	UNNAMED TRIBUTARY TO BEAVER CREEK	778.03	Unnamed Reservoir	
York	BEAVER CREEK	780.21	Unnamed Reservoir	
Saline	UNNAMED TRIBUTARY TO NORTH FORK SWAN CREEK	813.19	Unnamed Reservoir	
Saline	UNNAMED TRIBUTARY TO NORTH FORK SWAN CREEK	815.14	Unnamed Reservoir	
Saline	UNNAMED TRIBUTARY TO NORTH FORK SWAN CREEK	815.36	Unnamed Reservoir	
Saline	UNNAMED TRIBUTARY TO NORTH FORK SWAN CREEK	816.36	Unnamed Reservoir	
Saline	UNNAMED TRIBUTARY TO NORTH FORK SWAN CREEK	816.41	Unnamed Reservoir	
Saline	UNNAMED TRIBUTARY TO NORTH FORK SWAN CREEK	816.45	Unnamed Reservoir	
Saline	UNNAMED TRIBUTARY TO NORTH FORK SWAN CREEK	817.16	Unnamed Reservoir	
Saline	UNNAMED TRIBUTARY TO NORTH FORK SWAN CREEK	817.55	Unnamed Reservoir	
Saline	UNNAMED TRIBUTARY TO SOUTH FORK SWAN CREEK	823.48	Unnamed Reservoir	
Saline	UNNAMED TRIBUTARY TO SOUTH FORK SWAN CREEK	823.54	Unnamed Reservoir	
Saline	UNNAMED TRIBUTARY TO SOUTH FORK SWAN CREEK	823.61	Unnamed Reservoir	
Saline	UNNAMED TRIBUTARY TO SOUTH FORK SWAN CREEK	823.97	Unnamed Reservoir	
Saline	UNNAMED TRIBUTARY TO SOUTH FORK SWAN CREEK	825.04	Unnamed Reservoir	
Saline	UNNAMED TRIBUTARY TO SOUTH FORK SWAN CREEK	825.04	Unnamed Reservoir	
Jefferson	SOUTH FORK SWAN CREEK	826.27	Unnamed Reservoir	
Jefferson	UNNAMED TRIBUTARY TO SOUTH FORK SWAN CREEK	829.47	Unnamed Reservoir	
Jefferson	UNNAMED TRIBUTARY TO SOUTH FORK SWAN CREEK	829.81	Unnamed Reservoir	
Jefferson	UNNAMED TRIBUTARY TO SOUTH FORK SWAN CREEK	829.88	Unnamed Reservoir	

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
Jefferson	UNNAMED TRIBUTARY TO SOUTH FORK SWAN CREEK	829.99	Unnamed Reservoir	
Jefferson	UNNAMED TRIBUTARY TO SOUTH FORK SWAN CREEK	830.61	Unnamed Reservoir	
Jefferson	UNNAMED TRIBUTARY TO CUB CREEK	831.33	Cub Creek Reservoir 14-C	
Jefferson	UNNAMED TRIBUTARY TO CUB CREEK	832.18	Cub Creek Reservoir 14-C	
Jefferson	UNNAMED TRIBUTARY TO CUB CREEK	832.71	Cub Creek Reservoir 14-C	
Jefferson	UNNAMED TRIBUTARY TO CUB CREEK	832.73	Cub Creek Reservoir 14-C	
Jefferson	UNNAMED TRIBUTARY TO CUB CREEK	832.74	Cub Creek Reservoir 14-C	
Jefferson	UNNAMED TRIBUTARY TO CUB CREEK	833.90	Cub Creek Reservoir 14-C	
Jefferson	CUB CREEK	835.29	Cub Creek Reservoir 13-C	Pipeline passes within 0.2 mile of reservoir
Jefferson	UNNAMED TRIBUTARY TO CUB CREEK	836.32	Cub Creek Reservoir 13-C	Pipeline passes within 0.2 mile of reservoir
Jefferson	UNNAMED TRIBUTARY TO CUB CREEK	836.94	Cub Creek Reservoir 13-C	Pipeline passes within 0.2 mile of reservoir
Jefferson	UNNAMED TRIBUTARY TO CUB CREEK	837.46	Cub Creek Reservoir 13-C	Pipeline passes within 0.2 mile of reservoir
Jefferson	UNNAMED TRIBUTARY TO CUB CREEK	837.53	Cub Creek Reservoir 13-C	Pipeline passes within 0.2 mile of reservoir
Jefferson	UNNAMED TRIBUTARY TO CUB CREEK	838.62	Cub Creek Reservoir 13-C	Pipeline passes within 0.2 mile of reservoir
Jefferson	UNNAMED TRIBUTARY TO CUB CREEK	838.76	Cub Creek Reservoir 13-C	Pipeline passes within 0.2 mile of reservoir

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
Jefferson	UNNAMED TRIBUTARY TO BIG INDIAN CREEK	840.59	Big Indian Creek Reservoir 10-A	Pipeline passes within 0.3 mile of reservoir
Jefferson	BIG INDIAN CREEK	843.03	Big Indian Creek Reservoir 10-A	Pipeline passes within 0.3 mile of reservoir
Jefferson	UNNAMED TRIBUTARY TO BIG INDIAN CREEK	847.32	Big Indian Creek Reservoir 8-E	Pipeline passes within 0.3 mile of reservoir
Jefferson	UNNAMED TRIBUTARY TO BIG INDIAN CREEK	847.34	Big Indian Creek Reservoir 8-E	Pipeline passes within 0.3 mile of reservoir
Jefferson	UNNAMED TRIBUTARY TO BIG INDIAN CREEK	848.66	Big Indian Creek Reservoir 8-E	Pipeline passes within 0.3 mile of reservoir
<b>Gulf Coast Segment</b>				
<b>Oklahoma</b>				
Lincoln	UNNAMED TRIBUTARY TO CAMP CREEK	6.98	Stroud Lake	Perennial drainage flows southeast from the centerline into Stroud Lake via Camp Creek.
Lincoln	UNNAMED TRIBUTARY TO CAMP CREEK	7.60	Stroud Lake	Intermittent drainage flows southeast from the centerline into Stroud Lake via Camp Creek.
Lincoln	UNNAMED TRIBUTARY TO CAMP CREEK	7.83	Stroud Lake	Intermittent drainage flows southeast from the centerline into Stroud Lake via Camp Creek

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
Lincoln	UNNAMED TRIBUTARY TO CAMP CREEK	8.38	Stroud Lake	Intermittent drainage flows northeast from centerline into Stroud Lake via Camp Creek.
Lincoln	UNNAMED TRIBUTARY TO CAMP CREEK	9.10	Stroud Lake	Intermittent drainage flows northeast from centerline into Stroud Lake via Camp Creek.
Lincoln	UNNAMED TRIBUTARY TO CAMP CREEK	9.37	Stroud Lake	Intermittent drainage flows northeast into Stroud Lake, via Camp Creek
<b>Texas</b>				
Lamar	UNNAMED TRIBUTARY TO SHOOTER CREEK	168.32	Pat Mayse Lake/WMA	Ephemeral drainage flows northeast from centerline into Pat Mayse Lake/WMA via Collins Creek.
Lamar	UNNAMED TRIBUTARY TO SHOOTER CREEK	168.33	Pat Mayse Lake/WMA	Ephemeral drainage flows northeast from centerline into Pat Mayse Lake/WMA via Collins Creek.
Lamar	UNNAMED TRIBUTARY TO SHOOTER CREEK	168.33	Pat Mayse Lake/WMA	Ephemeral drainage flows northeast from centerline into Pat Mayse Lake/WMA via Collins Creek.

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
Lamar	UNNAMED TRIBUTARY TO SHOOTER CREEK	168.84	Pat Mayse Lake/WMA	Intermittent drainage flows northeast from centerline in Pat Mayse Lake/WMA via Collins Creek.
Lamar	SHOOTER CREEK	169.29	Pat Mayse Lake/WMA	
Lamar	COLLINS CREEK	169.48	Pat Mayse Lake/WMA	
Lamar	UNNAMED TRIBUTARY TO SANDERS CREEK	170.30	Pat Mayse Lake/WMA	Ephemeral drainage flows north from centerline into Pat Mayse Lake/WMA via Sanders Creek.
Lamar	UNNAMED TRIBUTARY TO SANDERS CREEK	170.39	Pat Mayse Lake/WMA	Ephemeral drainage flows north from centerline into Pat Mayse Lake/WMA via Sanders Creek.
Lamar	UNNAMED TRIBUTARY TO SANDERS CREEK	170.90	Pat Mayse Lake/WMA	Ephemeral drainage flows north from centerline into Pat Mayse Lake/WMA via Sanders Creek.
Lamar	SANDERS CREEK	171.16	Pat Mayse Lake/WMA	
Lamar	COTTONWOOD CREEK	172.71	Pat Mayse Lake/WMA	
Lamar	UNNAMED TRIBUTARY TO COTTONWOOD CREEK	173.41	Pat Mayse Lake/WMA	Ephemeral drainage flows north from centerline into Pat Mayse Lake/WMA via

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
				Cottonwood Creek.
Lamar	UNNAMED TRIBUTARY TO MALLORY CREEK	184.00	Proposed George Parkhouse Reservoir	Intermittent drainage flows south from centerline into area considered for proposed George Parkhouse Reservoir via Mallory Creek
Lamar	UNNAMED TRIBUTARY TO MALLORY CREEK	184.08	Proposed George Parkhouse Reservoir	Ephemeral drainage flows south from centerline into area considered for proposed George Parkhouse Reservoir via Mallory Creek.
Lamar	UNNAMED TRIBUTARY TO MALLORY CREEK	185.09	Proposed George Parkhouse Reservoir	Ephemeral drainage flows south from centerline into area considered for proposed George Parkhouse Reservoir via Mallory Creek.
Lamar	MALLORY CREEK	186.41	Proposed George Parkhouse Reservoir	
Lamar	MALLORY CREEK	187.51	Proposed George Parkhouse Reservoir	

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
Lamar	UNNAMED TRIBUTARY TO MALLORY CREEK	188.52	Proposed George Parkhouse Reservoir	Intermittent drainage flows south from centerline into area considered for proposed George Parkhouse Reservoir via Mallory Creek.
Lamar	JUSTISS CREEK	189.31	Proposed George Parkhouse Reservoir	
Lamar	UNNAMED TRIBUTARY OF NORTH SULPHUR RIVER	190.52	Proposed George Parkhouse Reservoir	Intermittent drainage flows south from centerline into area considered for proposed George Parkhouse Reservoir via North Sulphur River
Lamar	UNNAMED TRIBUTARY OF NORTH SULPHUR RIVER	190.52	Proposed George Parkhouse Reservoir	Intermittent drainage flows south from centerline into area considered for proposed George Parkhouse Reservoir via North Sulphur River
Delta	UNNAMED TRIBUTARY OF NORTH SULPHUR RIVER	190.52	Proposed George Parkhouse Reservoir	Intermittent drainage flows south from centerline into area considered for proposed George

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
				Parkhouse Reservoir via North Sulphur River
Delta	UNNAMED TRIBUTARY OF NORTH SULPHUR RIVER	190.66	Proposed George Parkhouse Reservoir	Ephemeral drainage flows north from centerline into area considered for proposed George Parkhouse Reservoir via North Sulphur River.
Lamar	UNNAMED TRIBUTARY OF NORTH SULPHUR RIVER	190.67	Proposed George Parkhouse Reservoir	Ephemeral drainage flows north from centerline into area considered for proposed George Parkhouse Reservoir via North Sulphur River.
Lamar	NORTH SULPHUR RIVER	190.75	Proposed George Parkhouse Reservoir	Perennial drainage flows north from centerline into area considered for proposed George Parkhouse Reservoir via North Sulphur River.

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
Delta	NORTH SULPHUR RIVER	190.76	Proposed George Parkhouse Reservoir	Perennial drainage flows north from centerline into area considered for proposed George Parkhouse Reservoir via North Sulphur River.
Delta	NORTH SULPHUR RIVER	190.76	Proposed George Parkhouse Reservoir	
Delta	NORTH SULPHUR RIVER	190.79	Proposed George Parkhouse Reservoir	
Delta	UNNAMED TRIBUTARY OF NORTH SULPHUR RIVER	190.82	Proposed George Parkhouse Reservoir	Ephemeral drainage flows north from centerline into area considered for proposed George Parkhouse Reservoir via North Sulphur River.
Delta	UNNAMED TRIBUTARY OF NORTH SULPHUR RIVER	191.05	Proposed George Parkhouse Reservoir	Ephemeral drainage flows north from centerline into area considered for proposed George Parkhouse Reservoir via North Sulphur River.

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
Delta	UNNAMED TRIBUTARY OF NORTH SULPHUR RIVER	192.85	Proposed George Parkhouse Reservoir	Intermittent drainage flows southeast from centerline into area considered for proposed George Parkhouse Reservoir via Lake Creek.
Delta	UNNAMED TRIBUTARY OF NORTH SULPHUR RIVER	193.67	Proposed George Parkhouse Reservoir	Intermittent drainage flows southeast from centerline into area considered for proposed George Parkhouse Reservoir via Lake Creek.
Delta	UNNAMED TRIBUTARY TO LAKE CREEK	194.24	Proposed George Parkhouse Reservoir	Ephemeral drainage flows east from centerline into area considered for proposed George Parkhouse Reservoir via Lake Creek.
Delta	UNNAMED TRIBUTARY TO LAKE CREEK	194.25	Proposed George Parkhouse Reservoir	Intermittent drainage flows east from centerline into area considered for proposed George Parkhouse Reservoir via Lake Creek.

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
Delta	UNNAMED TRIBUTARY TO LAKE CREEK	194.26	Proposed George Parkhouse Reservoir	Ephemeral drainage flows east from centerline into area considered for proposed George Parkhouse Reservoir via Lake Creek.
Delta	UNNAMED TRIBUTARY TO LAKE CREEK	194.96	Proposed George Parkhouse Reservoir	Intermittent drainage flows east from centerline into area considered for proposed George Parkhouse Reservoir via Lake Creek.
Delta	UNNAMED TRIBUTARY TO LAKE CREEK	195.87	Proposed George Parkhouse Reservoir	Ephemeral drainage flows east from centerline into area considered for proposed George Parkhouse Reservoir via Lake Creek.
Delta	UNNAMED WATERBODY	195.91	Proposed George Parkhouse Reservoir	Perennial drainage flows east from centerline into area considered for proposed George Parkhouse Reservoir via Lake Creek.

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
Delta	UNNAMED TRIBUTARY TO LAKE CREEK	196.37	Proposed George Parkhouse Reservoir	Ephemeral drainage flows east from centerline into area considered for proposed George Parkhouse Reservoir via Lake Creek.
Delta	EVANS BRANCH	199.59	Proposed George Parkhouse Reservoir	Intermittent drainage flows south from centerline into area considered for proposed George Parkhouse Reservoir via Evans Branch.
Delta	EVANS BRANCH	199.84	Proposed George Parkhouse Reservoir	Seasonal drainage flows south from centerline into area considered for proposed George Parkhouse Reservoir via Evans Branch.
Delta	SOUTH SULPHUR RIVER	201.77	Proposed George Parkhouse Reservoir	Perennial drainage flows north from centerline into area considered for proposed George Parkhouse Reservoir via South Sulphur River

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
Hopkins	SOUTH SULPHUR RIVER	201.78	Proposed George Parkhouse Reservoir	Perennial drainage flows north from centerline into area considered for proposed George Parkhouse Reservoir via South Sulphur River
Hopkins	UNNAMED TRIBUTARY TO SOUTH SULPHUR RIVER	202.95	Proposed George Parkhouse Reservoir	
Hopkins	UNNAMED TRIBUTARY TO SOUTH SULPHUR RIVER	202.95	Proposed George Parkhouse Reservoir	Perennial drainage flows north from centerline into area considered for proposed George Parkhouse Reservoir via South Sulphur River
Hopkins	UNNAMED TRIBUTARY TO SOUTH SULPHUR RIVER	203.40	Proposed George Parkhouse Reservoir	Drainage flows north from centerline into area considered for proposed George Parkhouse Reservoir via South Sulphur River
Hopkins	UNNAMED TRIBUTARY TO SOUTH SULPHUR RIVER	203.76	Proposed George Parkhouse Reservoir	Ephemeral drainage flows north from centerline into area considered for proposed George Parkhouse Reservoir via

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
				South Sulphur River
Hopkins	UNNAMED TRIBUTARY TO SOUTH SULPHUR RIVER	203.77	Proposed George Parkhouse Reservoir	Ephemeral drainage flows north from centerline into area considered for proposed George Parkhouse Reservoir via South Sulphur River
Hopkins	UNNAMED TRIBUTARY TO SOUTH SULPHUR RIVER	203.79	Proposed George Parkhouse Reservoir	
Hopkins	UNNAMED TRIBUTARY TO SOUTH SULPHUR RIVER	203.95	Proposed George Parkhouse Reservoir	Perennial drainage flows north from centerline into area considered for proposed George Parkhouse Reservoir via South Sulphur River
Hopkins	UNNAMED TRIBUTARY TO SOUTH SULPHUR RIVER	204.09	Proposed George Parkhouse Reservoir	Ephemeral drainage flows north from centerline into area considered for proposed George Parkhouse Reservoir via South Sulphur River

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
Hopkins	UNNAMED TRIBUTARY TO SOUTH SULPHUR RIVER	204.14	Proposed George Parkhouse Reservoir	Ephemeral drainage flows north from centerline into area considered for proposed George Parkhouse Reservoir via South Sulphur River
Franklin	UNNAMED TRIBUTARY TO HUGGINGS CREEK	223.05	Lake Cypress Springs	
Franklin	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	224.15	Lake Cypress Springs	
Franklin	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	225.03	Lake Cypress Springs	Intermittent drainage flows south of the centerline into Lake Cypress Springs via Little Cypress Creek
Franklin	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	225.38	Lake Cypress Springs	Ephemeral drainage flows south of the centerline into Lake Cypress Springs via Little Cypress Creek
Franklin	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	225.42	Lake Cypress Springs	Ephemeral drainage flows south of the centerline into Lake Cypress Springs via Little Cypress Creek
Franklin	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	226.04	Lake Cypress Springs	
Franklin	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	226.20	Lake Cypress Springs	
Franklin	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	226.23	Lake Cypress Springs	

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
Franklin	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	226.29	Lake Cypress Springs	
Franklin	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	226.68	Lake Cypress Springs	
Franklin	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	226.76	Lake Cypress Springs	
Franklin	UNNAMED TRIBUTARY TO BIG CYPRESS CREEK	227.52	Lake Cypress Springs	
Franklin	UNNAMED TRIBUTARY TO BIG CYPRESS CREEK	227.53	Lake Cypress Springs	
Franklin	UNNAMED TRIBUTARY TO BIG CYPRESS CREEK	227.58	Lake Cypress Springs	
Franklin	UNNAMED TRIBUTARY TO BIG CYPRESS CREEK	227.68	Lake Cypress Springs	
Franklin	UNNAMED TRIBUTARY TO BIG CYPRESS CREEK	227.91	Lake Cypress Springs	
Franklin	UNNAMED TRIBUTARY TO BIG CYPRESS CREEK	227.95	Lake Cypress Springs	
Franklin	UNNAMED TRIBUTARY TO BIG CYPRESS CREEK	228.34	Lake Cypress Springs	
Franklin	UNNAMED TRIBUTARY TO BIG CYPRESS CREEK	228.48	Lake Cypress Springs	
Franklin	UNNAMED TRIBUTARY TO BIG CYPRESS CREEK	228.86	Lake Cypress Springs	
Franklin	UNNAMED TRIBUTARY TO BIG CYPRESS CREEK	228.88	Lake Cypress Springs	
Franklin	UNNAMED TRIBUTARY TO BRUSHY CREEK	230.07	Lake Bob Sandlin	Intermittent drainage flows south of the centerline into Lake Bob Sandlin via Gum Branch.
Franklin	UNNAMED TRIBUTARY TO BRUSHY CREEK	230.41	Lake Bob Sandlin	
Franklin	UNNAMED TRIBUTARY TO BRUSHY CREEK	230.42	Lake Bob Sandlin	
Franklin	UNNAMED TRIBUTARY TO BRUSHY CREEK	230.89	Lake Bob Sandlin	Ephemeral drainage flows south of the centerline into Lake Bob Sandlin via Gum Branch.
Franklin	UNNAMED TRIBUTARY TO BRUSHY CREEK	231.22	Lake Bob Sandlin	Ephemeral drainage flows south of the centerline into Lake Bob

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
				Sandlin via Gum Branch.
Franklin	UNNAMED TRIBUTARY TO BRUSHY CREEK	231.43	Lake Bob Sandlin	Ephemeral drainage flows south of the centerline into Lake Bob Sandlin via Gum Branch.
Franklin	UNNAMED TRIBUTARY TO BRUSHY CREEK	231.60	Lake Bob Sandlin	
Franklin	UNNAMED TRIBUTARY TO BRUSHY CREEK	231.85	Lake Bob Sandlin	
Franklin	BRUSHY CREEK	232.65	Lake Bob Sandlin	
Franklin	UNNAMED TRIBUTARY TO BRUSHY CREEK	232.75	Lake Bob Sandlin	
Franklin	UNNAMED TRIBUTARY TO BRUSHY CREEK	233.08	Lake Bob Sandlin	
Wood	UNNAMED TRIBUTARY TO BRIARY CREEK	234.13	Lake Bob Sandlin	
Wood	BRIARY CREEK	234.21	Lake Bob Sandlin	
Wood	SAND BRANCH	234.59	Lake Bob Sandlin	
Wood	UNNAMED TRIBUTARY TO SAND BRANCH	234.70	Lake Bob Sandlin	
Wood	UNNAMED TRIBUTARY TO BRIARY CREEK	235.05	Lake Bob Sandlin	
Wood	UNNAMED TRIBUTARY TO BRIARY CREEK	235.54	Lake Bob Sandlin	Perennial drainage flows north of the centerline into Lake Bob Sandlin via Sand Branch.
Wood	UNNAMED TRIBUTARY TO STOUT CREEK	236.81	Lake Bob Sandlin	Intermittent drainage flows east of the centerline into Lake Bob Sandlin via South Fork Brushy Creek

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
Wood	UNNAMED TRIBUTARY TO STOUT CREEK	238.19	Lake Bob Sandlin	
Wood	UNNAMED TRIBUTARY TO CANEY CREEK	239.45	Proposed Little Cypress Reservoir	Intermittent drainage flows southeast from centerline into area considered for proposed Little Cypress Reservoir via Caney Creek
Wood	UNNAMED TRIBUTARY TO CANEY CREEK	239.67	Proposed Little Cypress Reservoir	Ephemeral drainage flows southeast from centerline into area considered for proposed Little Cypress Reservoir via Caney Creek.
Wood	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	241.61	Proposed Little Cypress Reservoir	Ephemeral drainage flows southeast from centerline into area considered for proposed Little Cypress Reservoir via Little Cypress Creek.
Wood	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	241.83	Proposed Little Cypress Reservoir	drainage flows southeast from centerline into area considered for proposed Little Cypress Reservoir via Little

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
				Cypress Creek.
Wood	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	241.86	Proposed Little Cypress Reservoir	Intermittent drainage flows southeast from centerline into area considered for proposed Little Cypress Reservoir via Little Cypress Creek.
Wood	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	242.09	Proposed Little Cypress Reservoir	Ephemeral drainage flows southeast from centerline into area considered for proposed Little Cypress Reservoir via Little Cypress Creek.
Wood	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	242.24	Proposed Little Cypress Reservoir	Intermittent drainage flows southeast from centerline into area considered for proposed Little Cypress Reservoir via Little Cypress Creek.
Wood	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	242.71	Proposed Little Cypress Reservoir	Perennial drainage flows southeast from centerline into area considered for

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
				proposed Little Cypress Reservoir via Little Cypress Creek.
Wood	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	243.90	Proposed Little Cypress Reservoir	
Wood	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	244.87	Proposed Little Cypress Reservoir	Perennial drainage flows southeast from centerline into area considered for proposed Little Cypress Reservoir via Little Cypress Creek.
Wood	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	245.44	Proposed Little Cypress Reservoir	Perennial drainage flows southeast from centerline into area considered for proposed Little Cypress Reservoir via Little Cypress Creek.
Wood	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	245.53	Proposed Little Cypress Reservoir	Perennial drainage flows southeast from centerline into area considered for proposed Little Cypress Reservoir via Little Cypress Creek.

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
Wood	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	246.39	Proposed Little Cypress Reservoir	Drainage flows southeast from centerline into area considered for proposed Little Cypress Reservoir via Little Cypress Creek.
Wood	UNNAMED TRIBUTARY TO LITTLE CYPRESS CREEK	246.62	Proposed Little Cypress Reservoir	Perennial drainage flows southeast from centerline into area considered for proposed Little Cypress Reservoir via Little Cypress Creek.
Wood	CLEAR CREEK	247.51	Lake Greenbriar	Intermittent drainage flows southwest from centerline into Lake Greenbriar via Clear Creek.
Wood	UNNAMED TRIBUTARY TO CLEAR CREEK	248.01	Lake Greenbriar	Perennial drainage flows southwest from centerline into Lake Greenbriar via Clear Creek.
Wood	UNNAMED TRIBUTARY TO CLEAR CREEK	248.60	Lake Greenbriar	Perennial drainage flows southwest from centerline into Lake Greenbriar via Clear

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
				Creek.
Wood	HONEY CREEK	249.96	Lake Greenbriar	Intermittent drainage flows southwest from centerline into Lake Greenbriar via Honey Creek.
Wood	UNNAMED TRIBUTARY TO HONEY CREEK	250.28	Lake Greenbriar	Intermittent drainage flows southwest from centerline into Lake Greenbriar via Honey Creek.
Smith	UNNAMED TRIBUTARY TO PRAIRIE CREEK	275.08	Prairie Creek Reservoir	Perennial drainage flows east from centerline into Prairie Creek Reservoir via Prairie Creek.
Smith	UNNAMED ROAD SIDE DITCH	275.48	Prairie Creek Reservoir	
Smith	PRAIRIE CREEK	275.53	Prairie Creek Reservoir	
Smith	UNNAMED TRIBUTARY TO PRAIRIE CREEK	275.55	Prairie Creek Reservoir	
Smith	UNNAMED TRIBUTARY TO MUD CREEK	277.06	Lake Tyler	Intermittent drainage flows west of centerline into Lake Tyler via Mud Creek.

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
Smith	UNNAMED TRIBUTARY TO MUD CREEK	277.34	Lake Tyler	Perennial drainage flows west of centerline into Lake Tyler via Mud Creek.
Smith	UNNAMED TRIBUTARY TO MUD CREEK	277.66	Lake Tyler	Perennial drainage flows east of centerline into Lake Tyler via Mud Creek.
Smith	UNNAMED TRIBUTARY TO MUD CREEK	279.73	Lake Tyler	
Smith	UNNAMED TRIBUTARY TO CANEY CREEK	280.12	Lake Tyler	Intermittent drainage flows east of centerline into Lake Tyler via Mud Creek.
Smith	UNNAMED TRIBUTARY TO CANEY CREEK	280.71	Lake Tyler	Perennial drainage flows east of centerline into Lake Tyler via Mud Creek.
Smith	UNNAMED TRIBUTARY TO CANEY CREEK	281.84	Lake Tyler	Ephemeral drainage flows southwest of centerline into Lake Tyler via Caney Creek.
Smith	UNNAMED TRIBUTARY TO CANEY CREEK	281.97	Lake Tyler	Seasonal drainage flows south of centerline into Lake Tyler via Caney Creek.
Smith	UNNAMED TRIBUTARY TO CANEY CREEK	282.02	Lake Tyler	Seasonal drainage flows south of centerline into Lake Tyler via Caney

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
				Creek.
Smith	UNNAMED TRIBUTARY TO CANEY CREEK	283.06	Lake Tyler	Intermittent drainage flows south of centerline into Lake Tyler via Caney Creek.
Smith	UNNAMED TRIBUTARY TO CANEY CREEK	283.45	Lake Tyler	Perennial drainage flows south of centerline into Lake Tyler via Caney Creek.
Smith	UNNAMED TRIBUTARY TO CANEY CREEK	283.49	Lake Tyler	Perennial drainage flows south of centerline into Lake Tyler via Caney Creek.
Smith	CANEY CREEK	283.54	Lake Tyler	
Smith	UNNAMED TRIBUTARY TO CANEY CREEK	284.62	Lake Tyler	Perennial drainage flows north of centerline into Lake Tyler via Caney Creek.
Smith	UNNAMED TRIBUTARY TO KICKAPOO CREEK	286.77	Proposed Lake Columbia	Perennial drainage flows southwest of centerline into area considered for proposed Columbia Lake via Kickapoo Creek.

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
Smith	KICKAPOO CREEK	287.55	Proposed Lake Columbia	Intermittent drainage flows west of centerline into area considered for proposed Columbia Lake via Kickapoo Creek.
Smith	UNNAMED TRIBUTARY TO KICKAPOO CREEK	287.84	Proposed Lake Columbia	Intermittent drainage flows west of centerline into area considered for proposed Columbia Lake via Kickapoo Creek.
Smith	UNNAMED TRIBUTARY TO KICKAPOO CREEK	288.15	Proposed Lake Columbia	Intermittent drainage flows west of centerline into area considered for proposed Columbia Lake via Kickapoo Creek.
Smith	UNNAMED TRIBUTARY TO KICKAPOO CREEK	288.24	Proposed Lake Columbia	Intermittent drainage flows west of centerline into area considered for proposed Columbia Lake via Kickapoo Creek.
Cherokee	UNNAMED TRIBUTARY TO MILLS CREEK	297.62	Lake Striker	Perennial drainage flows south of centerline into Lake Striker via Mill Creek.

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
Cherokee	UNNAMED TRIBUTARY TO MILLS CREEK	297.67	Lake Striker	Intermittent drainage flows south of centerline into Lake Striker via Mill Creek.
Cherokee	MILL CREEK	297.68	Lake Striker	
Cherokee	UNNAMED TRIBUTARY TO BOWLES CREEK	300.74	Lake Striker	Ephemeral drainage flows south of centerline into Lake Striker via Mill Creek.
Rusk	JOHNSONS CREEK	301.32	Lake Striker	
Rusk	UNNAMED TRIBUTARY TO JOHNSONS CREEK	301.74	Lake Striker	Ephemeral drainage flows north of centerline into Lake Striker via Johnson Creek.
Rusk	UNNAMED TRIBUTARY TO JOHNSONS CREEK	302.32	Lake Striker	Ephemeral drainage flows west of centerline into Lake Striker via Striker Creek.
Rusk	UNNAMED TRIBUTARY TO BOGGY BRANCH	302.99	Lake Striker	Ephemeral drainage flows south of centerline into Lake Striker via Boggy Branch.
Rusk	UNNAMED TRIBUTARY TO BOGGY BRANCH	303.00	Lake Striker	Ephemeral drainage flows south of centerline into Lake Striker via Boggy

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
				Branch.
Rusk	BOGGY BRANCH	303.10	Lake Striker	
Rusk	UNNAMED TRIBUTARY TO STRIKER CREEK	303.83	Lake Striker	Intermittent drainage flows west, directly into Lake Striker.
Rusk	UNNAMED TRIBUTARY TO STRIKER CREEK	303.88	Lake Striker	Intermittent drainage flows west, directly into Lake Striker.
Rusk	UNNAMED TRIBUTARY TO STRIKER CREEK	304.27	Lake Striker	Intermittent drainage flows west, directly into Lake Striker.
Rusk	UNNAMED TRIBUTARY TO STRIKER CREEK	304.75	Lake Striker	Intermittent drainage flows west, directly into Lake Striker.
Angelina	UNNAMED TRIBUTARY TO WATSON BRANCH	344.69	Davy Crockett National Forest	Ephemeral drainage located within David Crockett National Forest which drains south into Watson Branch
Angelina	WATSON BRANCH	344.94	Davy Crockett National Forest	Ephemeral drainage located within David Crockett National Forest which drains south into Watson Branch

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
Angelina	UNNAMED TRIBUTARY TO WATSON BRANCH	345.45	Davy Crockett National Forest	Intermittent drainage located within David Crockett National Forest which drains northeast into Watson Branch.
Angelina	UNNAMED TRIBUTARY TO WATSON BRANCH	345.46	Davy Crockett National Forest	Intermittent drainage located within David Crockett National Forest which drains northeast into Watson Branch.
Angelina	UNNAMED TRIBUTARY TO WATSON BRANCH	345.52	Davy Crockett National Forest	Perennial drainage located within David Crockett National Forest which drains northeast into Watson Branch.
Angelina	UNNAMED TRIBUTARY TO WATSON BRANCH	345.59	Davy Crockett National Forest	Perennial drainage located within David Crockett National Forest which drains northeast into Watson Branch.
Angelina	UNNAMED TRIBUTARY TO WATSON BRANCH	345.60	Davy Crockett National Forest	Perennial drainage located within David Crockett National Forest which drains northeast into Watson Branch.
Angelina	UNNAMED TRIBUTARY TO RED BAYOU	346.52	Davy Crockett National Forest	
Angelina	UNNAMED TRIBUTARY TO RED BAYOU	346.52	Davy Crockett	

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
			National Forest	
Angelina	UNNAMED TRIBUTARY TO RED BAYOU	346.59	Davy Crockett National Forest	
Angelina	UNNAMED TRIBUTARY TO RED BAYOU	346.60	Davy Crockett National Forest	
Angelina	RED BAYOU	347.76	Davy Crockett National Forest	Ephemeral drainage located within David Crockett National Forest which drains west into Bodan Creek.
Angelina	UNNAMED TRIBUTARY TO RED BAYOU	348.05	Davy Crockett National Forest	Ephemeral drainage located within David Crockett National Forest which drains west into Bodan Creek.
Angelina	UNNAMED TRIBUTARY TO NECHES RIVER	350.01	Davy Crockett National Forest	
Angelina	UNNAMED TRIBUTARY TO NECHES RIVER	350.23	Davy Crockett National Forest	
Angelina	BUNCOMBE CREEK	351.02	Davy Crockett National Forest	Perennial drainage located within David Crockett National Forest which drains west into Buncombe Creek.
Angelina	UNNAMED TRIBUTARY TO BUNCOMBE CREEK	351.15	Davy Crockett National Forest	Perennial drainage located within David Crockett National Forest which drains west into

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
				Buncombe Creek.
Angelina	UNNAMED TRIBUTARY TO BUNCOMBE CREEK	351.66	Davy Crockett National Forest	Perennial drainage located within David Crockett National Forest which drains west into Neches River.
Angelina	UNNAMED TRIBUTARY TO NECHES RIVER	352.18	Davy Crockett National Forest	Perennial drainage located within David Crockett National Forest which drains west into Neches River.
Angelina	UNNAMED TRIBUTARY TO CRAWFORD CREEK	352.93	Davy Crockett National Forest	Ephemeral drainage located within David Crockett National Forest which drains west into Crawford Creek.
Angelina	UNNAMED TRIBUTARY TO CRAWFORD CREEK	352.94	Davy Crockett National Forest	Ephemeral drainage located within David Crockett National Forest which drains west into Crawford Creek.
Angelina	UNNAMED TRIBUTARY TO CRAWFORD CREEK	352.99	Davy Crockett National Forest	Ephemeral drainage located within David Crockett National Forest which drains west into Crawford Creek.

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
Angelina	UNNAMED TRIBUTARY TO CRAWFORD CREEK	353.12	Davy Crockett National Forest	Ephemeral drainage located within David Crockett National Forest which drains west into Crawford Creek.
Angelina	CRAWFORD CREEK	353.26	Davy Crockett National Forest	Ephemeral drainage located within David Crockett National Forest which drains west into Crawford Creek.
Angelina	STOCK POND	353.28	Davy Crockett National Forest	
Angelina	UNNAMED TRIBUTARY TO NECHES RIVER	354.18	Davy Crockett National Forest	
Angelina	UNNAMED TRIBUTARY TO NECHES RIVER	354.20	Davy Crockett National Forest	
Angelina	UNNAMED TRIBUTARY TO NECHES RIVER	355.01	Davy Crockett National Forest	
Angelina	UNNAMED TRIBUTARY TO NECHES RIVER	355.11	Davy Crockett National Forest	
Angelina	UNNAMED TRIBUTARY TO NECHES RIVER	355.22	Davy Crockett National Forest	
Angelina	UNNAMED TRIBUTARY TO NECHES RIVER	355.27	Davy Crockett National Forest	
Angelina	UNNAMED TRIBUTARY TO NECHES RIVER	355.45	Davy Crockett National Forest	Drainage located within David Crockett National Forest which drains west into Neches River.

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
Angelina	UNNAMED TRIBUTARY TO NECHES RIVER	355.64	Davy Crockett National Forest	
Angelina	UNNAMED TRIBUTARY TO NECHES RIVER	356.08	Davy Crockett National Forest	
Angelina	UNNAMED TRIBUTARY TO NECHES RIVER	356.74	Davy Crockett National Forest	
Angelina	UNNAMED TRIBUTARY TO NECHES RIVER	356.91	Davy Crockett National Forest	
Angelina	UNNAMED TRIBUTARY TO NECHES RIVER	357.41	Davy Crockett National Forest	
Angelina	UNNAMED TRIBUTARY TO NECHES RIVER	357.50	Davy Crockett National Forest	
Angelina	UNNAMED TRIBUTARY TO NECHES RIVER	357.92	Davy Crockett National Forest	
Angelina	UNNAMED TRIBUTARY TO NECHES RIVER	358.17	Davy Crockett National Forest	Perennial drainage located within David Crockett National Forest which drains southwest into Neches River.
Angelina	UNNAMED TRIBUTARY TO NECHES RIVER	358.39	Davy Crockett National Forest	
Polk	UNNAMED TRIBUTARY TO BLUFF CREEK	400.67	Drainage in Big Thicket National Preserve	Ephemeral drainage located within Big Thicket National Preserve which drains east into Bluff Creek.

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
Polk	UNNAMED TRIBUTARY TO BLUFF CREEK	400.84	Drainage in Big Thicket National Preserve	Ephemeral drainage located within Big Thicket National Preserve which drains east into Bluff Creek.
Polk	UNNAMED TRIBUTARY TO BLUFF CREEK	401.35	Drainage in Big Thicket National Preserve	
Polk	MENARD CREEK	404.09	Drainage in Big Thicket National Preserve	Drainage located within Big Thicket National Preserve which drains south into Menard Creek.
Polk	MENARD CREEK	404.10	Drainage in Big Thicket National Preserve	
Polk	UNNAMED TRIBUTARY TO MENARD CREEK	404.33	Drainage in Big Thicket National Preserve	
Polk	UNNAMED TRIBUTARY TO MENARD CREEK	404.57	Drainage in Big Thicket National Preserve	
Polk	UNNAMED TRIBUTARY TO MENARD CREEK	404.74	Drainage in Big Thicket National Preserve	
Polk	UNNAMED TRIBUTARY TO MENARD CREEK	404.75	Drainage in Big Thicket National Preserve	

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
Polk	UNNAMED TRIBUTARY TO MENARD CREEK	405.40	Drainage in Big Thicket National Preserve	
Polk	UNNAMED TRIBUTARY TO DRY BRANCH	407.13	Drainage in Big Thicket National Preserve	
Polk	UNNAMED TRIBUTARY TO DRY BRANCH	407.15	Drainage in Big Thicket National Preserve	
Polk	UNNAMED TRIBUTARY TO DRY BRANCH	407.22	Drainage in Big Thicket National Preserve	
Polk	UNNAMED TRIBUTARY TO DRY BRANCH	407.24	Drainage in Big Thicket National Preserve	
Polk	UNNAMED TRIBUTARY TO DRY BRANCH	407.24	Drainage in Big Thicket National Preserve	
Polk	UNNAMED TRIBUTARY TO DRY BRANCH	407.26	Drainage in Big Thicket National Preserve	
Polk	UNNAMED TRIBUTARY TO WILLIAMS CREEK	411.68	Drainage in Big Thicket National Preserve	Intermittent drainage located within Big Thicket National Preserve which drains southwest into Williams Creek.

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
Polk	UNNAMED TRIBUTARY TO WILLIAMS CREEK	413.66	Drainage in Big Thicket National Preserve	Ephemeral drainage located within Big Thicket National Preserve which drains southwest into Williams Creek.
Polk	UNNAMED TRIBUTARY TO WILLIAMS CREEK	414.35	Drainage in Big Thicket National Preserve	Ephemeral drainage located within Big Thicket National Preserve which drains west into Williams Creek.
Polk	UNNAMED TRIBUTARY TO WILLIAMS CREEK	414.36	Drainage in Big Thicket National Preserve	Ephemeral drainage located within Big Thicket National Preserve which drains west into Williams Creek.
Polk	UNNAMED TRIBUTARY TO BEAR FOOT LAKE	414.70	Drainage in Big Thicket National Preserve	Ephemeral drainage located within Big Thicket National Preserve
Polk	UNNAMED TRIBUTARY TO BEAR FOOT LAKE	415.34	Drainage in Big Thicket National Preserve	Perennial drainage located within Big Thicket National Preserve
Polk	UNNAMED TRIBUTARY TO BEAR FOOT LAKE	415.35	Drainage in Big Thicket National	Perennial drainage located within Big

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
			Preserve	Thicket National Preserve
Polk	UNNAMED TRIBUTARY TO BEAR FOOT LAKE	415.35	Drainage in Big Thicket National Preserve	Perennial drainage located within Big Thicket National Preserve
Liberty	UNNAMED TRIBUTARY TO MENARD CREEK	416.19	Drainage in Big Thicket National Preserve	Perennial drainage located within Big Thicket National Preserve which drains south into Menard Creek
Liberty	MENARD CREEK	416.35	Drainage in Big Thicket National Preserve	Perennial drainage located within Big Thicket National Preserve which drains south into Menard Creek
Liberty	BEEF HEAD CREEK	422.69	Trinity River National Wildlife Refuge	Ephemeral drainage located in Trinity National Wildlife Refuge which drains west into Beef Head Creek
Liberty	UNNAMED TRIBUTARY TO BATISTE CREEK	431.71	Daisetta Swamp	Ephemeral drainage flows south into Daisetta Swamp via Batiste Creek.

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
Liberty	UNNAMED TRIBUTARY TO BATISTE CREEK	432.87	Daisetta Swamp	Ephemeral drainage flows south into Daisetta Swamp via Batiste Creek.
Liberty	UNNAMED TRIBUTARY TO BATISTE CREEK	433.44	Daisetta Swamp	
Liberty	UNNAMED TRIBUTARY TO BATISTE CREEK	433.46	Daisetta Swamp	Ephemeral drainage flows west into Daisetta Swamp via Batiste Creek.
Liberty	UNNAMED TRIBUTARY TO BATISTE CREEK	434.11	Daisetta Swamp	Ephemeral drainage flows west into Daisetta Swamp via Batiste Creek.
Liberty	UNNAMED TRIBUTARY TO BATISTE CREEK	434.12	Daisetta Swamp	
Jefferson	COTTON CREEK	457.92	Drainage in Big Thicket National Preserve	Drainage located within Big Thicket National Preserve which drains into Cotton Creek.
Jefferson	COTTON CREEK	457.96	Drainage in Big Thicket National Preserve	
Jefferson	UNNAMED TRIBUTARY TO PINE ISLAND BAYOU	459.16	Drainage in Big Thicket National Preserve	Intermittent drainage located within Big Thicket National Preserve which drains into Pine Island Bayou.

Appendix E-4 Waterbodies Within 10 Miles Downstream of Proposed Water Crossings

State/County	Stream Crossing Point	Approximate Milepost	Downstream Reservoir/ Fishery/Wildlife Area	Other Description
Jefferson	UNNAMED TRIBUTARY TO PINE ISLAND BAYOU	459.94	Drainage in Big Thicket National Preserve	Drainage located within Big Thicket National Preserve which drains into Pine Island Bayou.
Jefferson	UNNAMED TRIBUTARY TO PINE ISLAND BAYOU	460.46	Drainage in Big Thicket National Preserve	Drainage located within Big Thicket National Preserve which drains into Pine Island Bayou.
Jefferson	UNNAMED WATERBODY	473.56	Drainage in J.D. Murphree WMA	Perennial drainage that flows southeast from centerline into J.D. Murphree WMA via Hillebrandt Bayou.
Jefferson	UNNAMED TRIBUTARY TO HILLEBRANDT BAYOU	473.79	Drainage in J D Murphree WMA	Perennial drainage flows east from centerline into J.D. Murphree WMA via Hillebrandt Bayou.
Jefferson	HILLEBRANDT BAYOU	473.83	Drainage in J D Murphree WMA	Perennial drainage flows east from centerline into J.D. Murphree WMA via Hillebrandt Bayou.
Jefferson	UNNAMED TRIBUTARY TO HILLEBRANDT BAYOU	474.93	Drainage in J D Murphree WMA	

Appendix E-5 - Levees and Water Control Structures

County	Approximate Mile Post	Water body Name	Water body Type
<b>Steele City Segment</b>			
<b>Montana</b>			
Phillips	22.9	UNKNOWN	Man-made ditch
Valley	39.1	UNNAMED	Man-made ditch
Valley	84.5, 84.6, 85.02	VANDALIA CANAL	Man-made ditch
Valley	87.9	UNNAMED	Man-made ditch
Valley	88.1	UNNAMED	Man-made ditch
Valley	88.3	UNNAMED	Man-made ditch
Valley	88.3	UNNAMED	Man-made ditch
Valley	88.6	UNNAMED	Man-made ditch
Valley	88.9	UNNAMED	Man-made ditch
Valley	89.0	UNNAMED	Man-made ditch
Valley	89.1	UNNAMED	Man-made ditch
Dawson	194.4	MAIN CANAL	Man-made ditch
Dawson	195.5	TRIB TO YELLOWSTONE RIVER	Man-made ditch
Dawson	196.1	SIDE CHANNEL OF YELLOWSTONE RIVER	Perennial
<b>South Dakota</b>			
None			
<b>Nebraska</b>			
Holt	634.2	UNKNOWN	Man-made ditch
Nance	738.6	FULLERTON CANAL	Perennial
Merrick	751.6	UNKNOWN	Man-made ditch
Merrick	753.9	UNKNOWN	Man-made ditch
Fillmore	799.4	UNNAMED	Man-made ditch
Fillmore	801.5	TRIB TO TURKEY CREEK	Man-made ditch
Saline	824.0	UNNAMED	Man-made ditch
Jefferson	847.3	TRIB TO BIG INDIAN CREEK	Man-made ditch
Jefferson	847.3	TRIB TO BIG INDIAN CREEK	Man-made ditch
<b>Gulf Coast Segment</b>			
<b>Oklahoma</b>			
Lincoln	10.4	UNKNOWN	Roadside Ditch
Lincoln	15.5	UNKNOWN CREEK	Channel
Okfuskee	31.8	UNKNOWN	Channel
Hughes	66.9	UNKNOWN	Roadside Ditch
Coal	112.8	UNKNOWN	Channel
Bryan	138.1	DITCH	Roadside Ditch
<b>Texas</b>			
Lamar	163.0	UNKNOWN	Ag Ditch
Lamar	163.1	UNKNOWN	Ag Ditch

Appendix E-5 - Levees and Water Control Structures

County	Approximate Mile Post	Water body Name	Water body Type
Hopkins	202.9	UNKNOWN	Ag Ditch
Hopkins	202.9	UNKNOWN	Ag Ditch
Hopkins	203.4	UNKNOWN	Ag Ditch
Hopkins	206.6	UNKNOWN	Ag Ditch
Franklin	227.5	UNKNOWN	Ag Ditch
Rusk	308.6	UNKNOWN	Channel
Polk	382.8	UNKNOWN	UNKNOWN
Polk	384.5	UNKNOWN	Ag Ditch
Liberty	434.1	ROADSIDE DITCH	Roadside Ditch
Liberty	434.1	ROADSIDE DITCH	Roadside Ditch
Liberty	439.0	UNNAMED PASTURE DRAINAGE	Ag Ditch
Hardin	446.3	UNKNOWN	Roadside Ditch
Hardin	446.3	UNKNOWN	Roadside Ditch
Jefferson	459.2	UNNAMED	Ag Ditch
Jefferson	461.8	S1RJE001	Ag Dit
Jefferson	462.3	S1RJE0	Ag Dit
Jefferson	462.5	S1RJE0	Ag Dit
Jefferson	462.5	S1RJE0	Ag Dit
Jefferson	463.2	CANAL	Ag Ditch
Jefferson	463.4	CANAL	Ag Ditch
Jefferson	463.7	CANAL	Ag Ditch
Jefferson	464.6	UNKNOWN	Manmade Ditch
Jefferson	465.2	DITCH	Ag Ditch
Jefferson	465.5	UNNAMED	Ag Ditch
Jefferson	465.8	CANAL	Manmade Body
Jefferson	466.1	CANAL	Ag Ditch
Jefferson	466.1	LOWER SAN JAC RIVER CANAL 2	Ag Ditch
Jefferson	466.3	UT	Ag Ditch
Jefferson	466.3	CANAL	Manmade Body
Jefferson	466.4	UT	Ag Ditch
Jefferson	466.6	UT	Ag Ditch
Jefferson	466.6	LOWER SAN JAC RIVER CANAL	Ag Ditch
Jefferson	466.6	JEFFERSON COUNTY CANAL	Manmade Body
Jefferson	467.9	JEFFERSON COUNTY CANAL	Manmade Ditch
Jefferson	467.9	JEFFERSON COUNTY CANAL	Manmade Ditch
Jefferson	468.2	JEFFERSON COUNTY CANAL	Manmade Ditch
Jefferson	469.9	JEFFERSON COUNTY CANAL	Manmade Ditch
Jefferson	470.6	UNNAMED	UNKNOWN
Jefferson	471.5	UNNAMED	Ag Ditch
Jefferson	472.0	UNNAMED	Ag Ditch
Jefferson	472.2	UNNAMED	UNKNOWN

Appendix E-5 - Levees and Water Control Structures

<b>County</b>	<b>Approximate Mile Post</b>	<b>Water body Name</b>	<b>Water body Type</b>
Jefferson	473.8	HILLEBRANDT BAYOU	UNKNOWN
Jefferson	478.4	STREAM	Ag. Ditch
Jefferson	483.0	DITCH	Ag Ditch
Jefferson	483.3	DITCH	Ag Ditch

## **Required Crossing Criteria for Reclamation Facilities**



# RECLAMATION

*Managing Water in the West*

## **TransCanada Keystone XL Pipeline**

### **Required Crossing Criteria for Reclamation Facilities**

**August 2010**



**U.S. Department of the Interior  
Bureau of Reclamation  
Great Plains Region**

**Oglala Sioux Rural Water Crossing**

## Oglala Sioux Rural Water Supply System South Dakota

NW1/4, Section 36, T1S, R29E, Jones County

The Oglala Sioux Rural Water Supply System supplies treated drinking water from the Missouri River to numerous cities and residents in the south-central part of South Dakota.

**Damages.** The Bureau of Reclamation or Oglala Sioux Rural Water Supply System (OSRWSS) shall not be responsible for any loss or damage to property arising from the issuance of this permit, including but not limited to damages to growing crops, animals, and machinery; or injury to TransCanada or its associates, officers, agents, employees, or any others who are on the premises; or for damages or interference caused by natural phenomena. TransCanada agrees to save Reclamation, OSRWSS or any of its assigns or agencies harmless from any and all claims for damages or losses that may arise from or be incidental to any activity associated with this permit. TransCanada also agrees to save Reclamation, OSRWSS, or its assigns and agencies, harmless from any damage to TransCanada or third parties resulting from project activities of Reclamation, OSRWSS, its agents and assigns.

**Liability.** The permitted activities shall be conducted so as not to interfere with the operation, maintenance, and administration of the OSRWSS Core System pipeline. Any additional repairs, maintenance, or expense to the OSRWSS Core System pipeline as a result of the permitted activities shall be reimbursed to the OSRWSS by TransCanada. The Secretary of the Interior's determination of such expense shall be final and binding upon the parties hereto. TransCanada is responsible for any costs associated with impacts to their facility caused by modifications or relocations of the OSRWSS Core System pipeline and for costs incurred by OSRWSS for modifications or relocations due to the presence of TransCanada.

**Interruption of Service:** TransCanada shall make provisions acceptable to Reclamation and OSRWSS for any activity conducted by TransCanada that causes water service in the OSRWSS Core System pipeline to be interrupted. Such provisions may include advance notification of the service interruption and temporary facilities to continue water service for interruptions lasting longer than 24 hours.

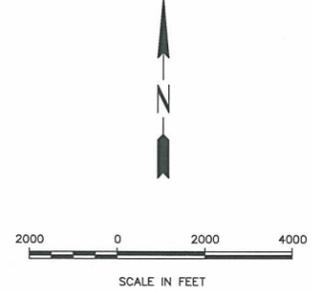
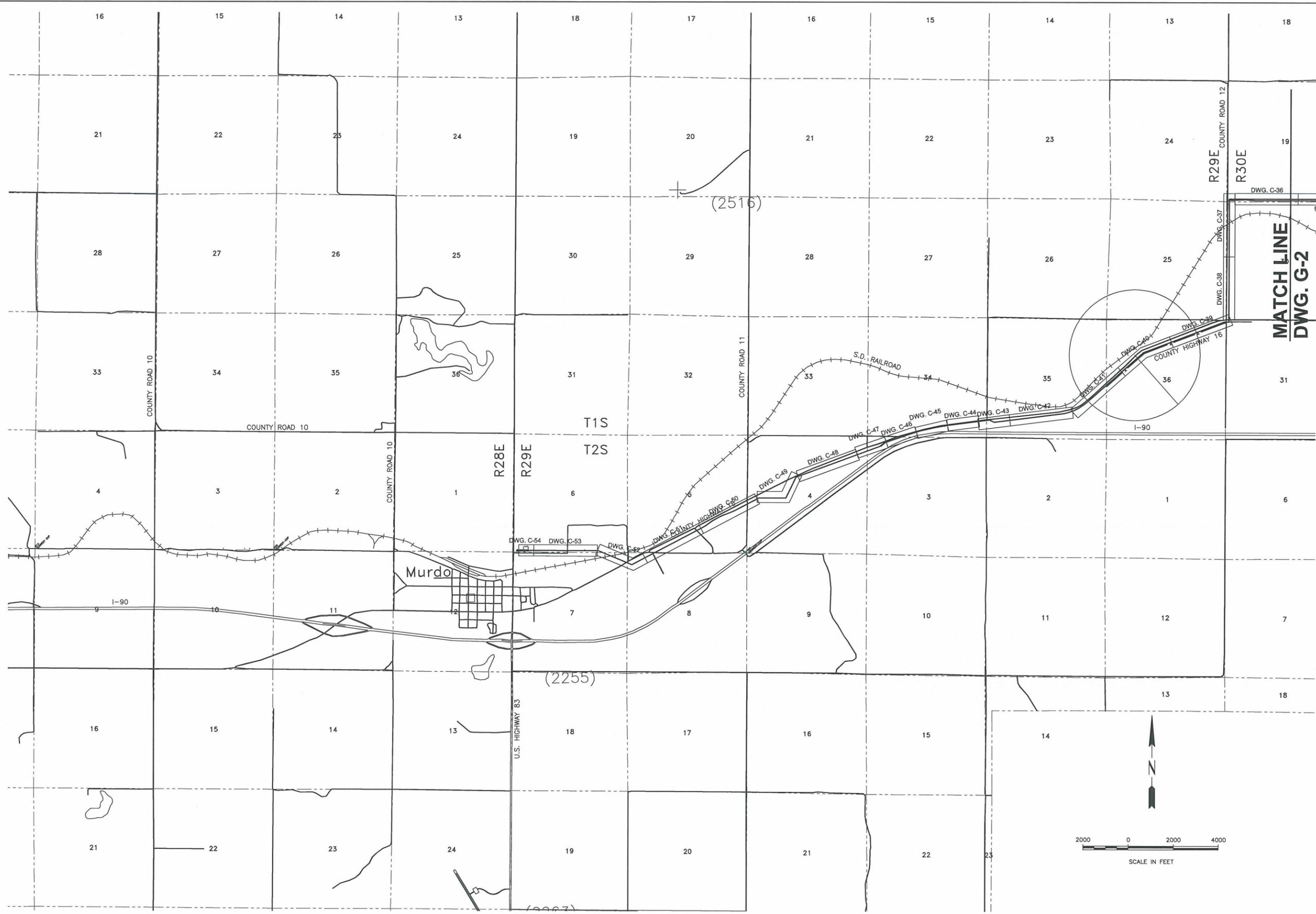
TransCanada shall comply with the requirements shown on the following drawings:

1. Drawing G-3 showing the general location of the OSRWSS steel pipeline crossing
  2. Drawing C-40 showing the plan and profile of the OSRWSS steel pipeline crossing.
  3. Drawing CP-1 showing the Corrosion Protection Requirements
- Not later than 45 days before start of construction, TransCanada shall provide OSRWSS and Reclamation with drawings and specifications for review and comment of all features of construction at the crossing, including cathodic protection. Comments to TransCanada will be concluded within 30 days, and TransCanada shall incorporate those comments in the plans and specifications for the crossing.
  - Not later than 10 days before start of construction, TransCanada shall provide OSRWSS with notice of the start of construction to facilitate monitoring and observation by

OSRWSS. TransCanada shall be responsible for addressing landowner concerns, issues and interests within the OSRWSS right-of-way or easement.

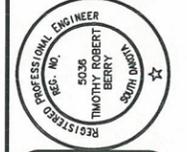
- TransCanada shall bore under the OSRWSS pipeline right-of-way, which is 75 feet wide.
- OSRWSS has a buried fiber optic cable installed with its pipeline that was placed by plow; its precise location is unknown. The burial depth information provided on the drawings is for information purposes only. TransCanada shall undertake exploratory excavations (potholing) to determine the exact burial depth for both the OSRWSS core pipeline and fiber optic line prior to starting crossing designs and construction of their pipeline.
- The OSRWSS Core System steel pipeline is protected by an induced current ground bed. TransCanada must coordinate and correspond with OSRWSS's corrosion experts and Reclamation during and after construction to assess the potential impacts of interference of its pipeline.
- TransCanada shall receive OSRWSS and Reclamation's review and approval of crossing specifications and drawings prior to starting work, including on the cathodic protection design, to assure it does not impact the OSRWSS Core System or its cathodic protection system.
- TransCanada shall install test stations as shown on Drawing CP-1.
- TransCanada shall not use a casing pipe when jacking under OSRWSS due to potential cathodic protection interference problems. If this is not possible, then TransCanada must provide a cathodic protection plan for review, comment, and approval from OSRWSS and Reclamation which accounts for the casing pipe.
- TransCanada shall maintain a minimum clearance of 18 inches between pipelines, in accordance with *Recommended Standards for Water Works (Tens States Standards)*, 2003 Edition, page 115.
- TransCanada shall install detectable warning tape, above ground signage (noting Keystone Pipeline location), and provide as-built copies of the Keystone XL Pipeline crossings to OSRWSS and Reclamation within 90 days of substantial completion.
- TransCanada must design its crossings such that the OSRWSS Core System pipeline suffers no reduction in working pressure rating or pipeline integrity due to the operations of TransCanada.

R:\2246\Trans Canada Keystone XL Pipeline\MMI DSRWSS Recommendations\Phase VI sitebase.dwg Apr/12/2010



**RECORD DRAWING** 11/24/03 GVE

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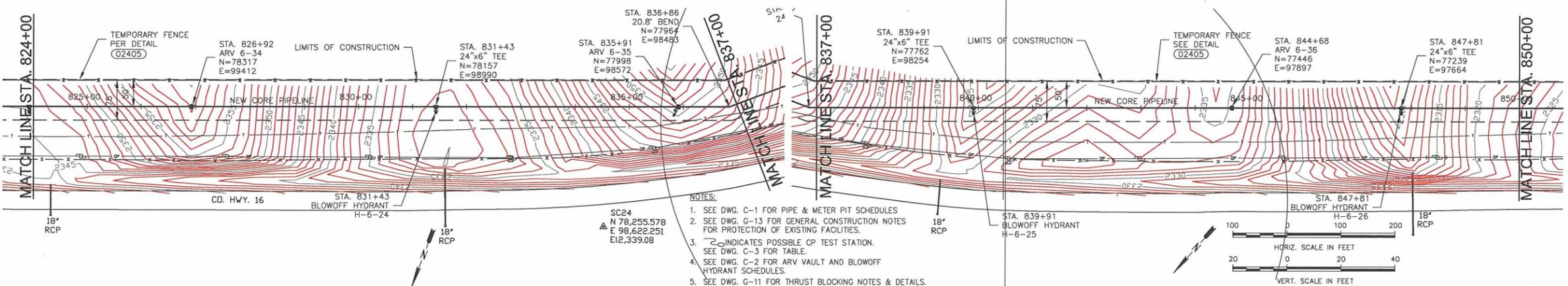
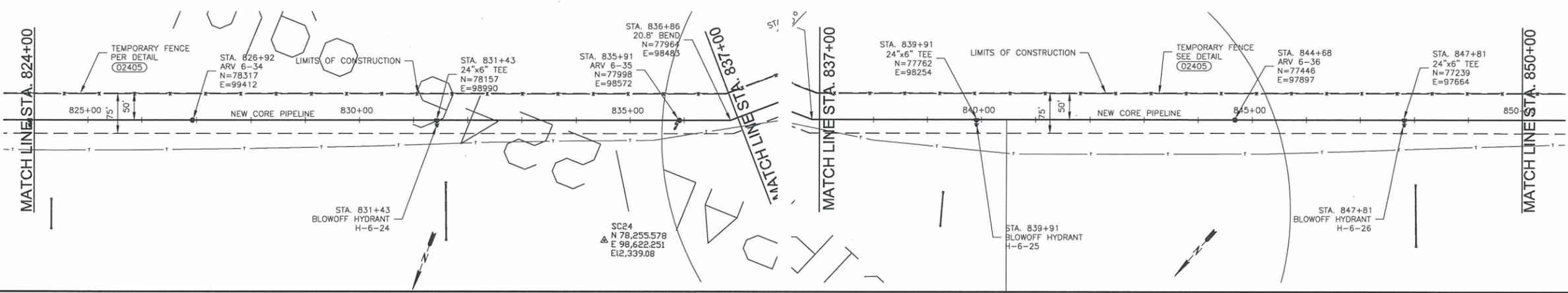
DRAWN BY: CJB	CHK'D. BY: TRB
APPR. BY: TRB	DATE: 2/2001
BY: C.A. REVIEW	DATE:

MNI WICONI CORE PIPELINE - PHASE VI  
 OGLALA SIOUX RURAL WATER SUPPLY SYSTEM

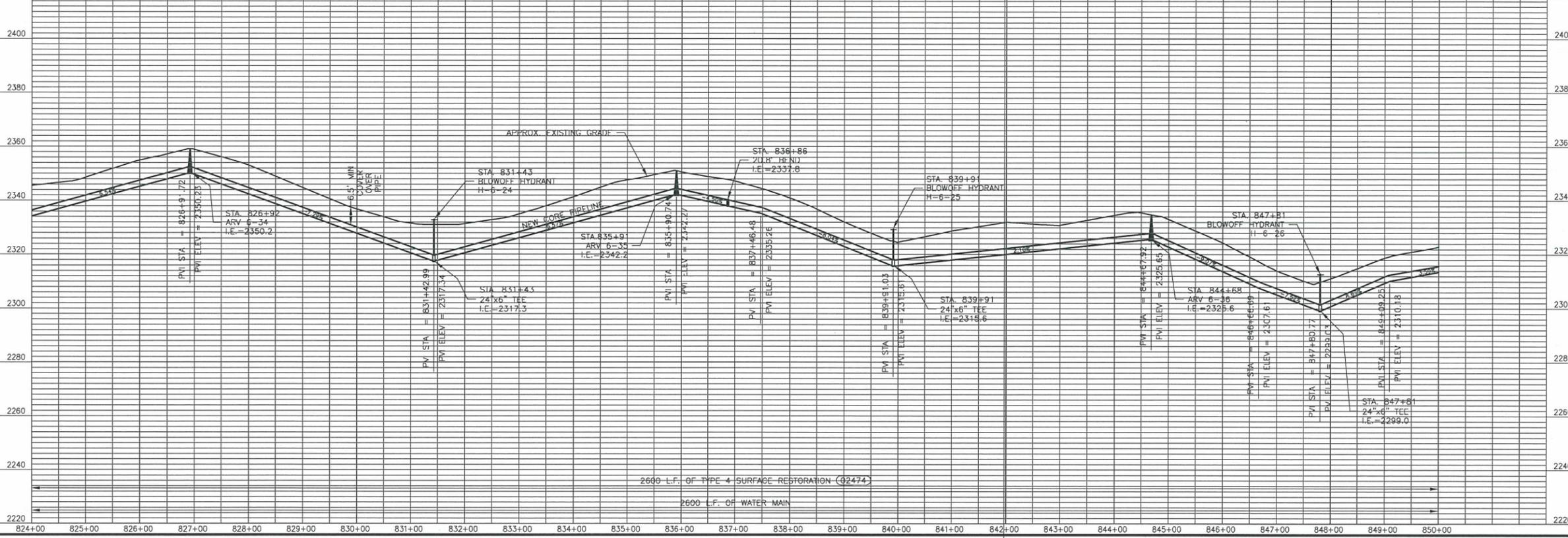
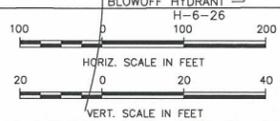
KEY MAP

PROJECT NO. 2246.012.02
SHEET NUMBER 3
DRAWING NUMBER G-3

H:\MUNICIPAL\2246 ogla\PHASE VI\acc\ahic-40.dwg Apr/12/2010



- NOTES:
1. SEE DWG. C-1 FOR PIPE & METER PIT SCHEDULES
  2. SEE DWG. G-13 FOR GENERAL CONSTRUCTION NOTES FOR PROTECTION OF EXISTING FACILITIES.
  3. "C" INDICATES POSSIBLE CP TEST STATION. SEE DWG. C-3 FOR TABLE.
  4. SEE DWG. C-2 FOR ARV VAULT AND BLOWOFF HYDRANT SCHEDULES.
  5. SEE DWG. G-11 FOR THRUST BLOCKING NOTES & DETAILS.



VERIFY SCALE! THESE PRINTS MAY BE REDUCED. ONE BELOW ORIGINAL DRAWING. MODIFY SCALE ACCORDINGLY!



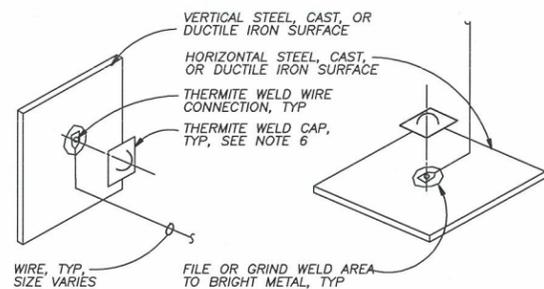
NO.	DESCRIPTION	DATE	BY

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 ENGINEERS, SCIENTISTS, SURVEYORS, PLANNERS  
 SINCE 1945  
 810 Main Street, Suite 200, Bismarck, ND 58501  
 Phone: (701) 425-3050 Fax: (701) 425-7882  
 COPYRIGHT © MORRISON MAIRLE, INC. 2000

DRAWN BY: CJB  
 CHK'D BY: JMB  
 APPR. BY: JSB  
 DATE: 02/20/11  
 BY: G.A. REVIEW  
 DATE:  

MINI WICONI CORE PIPELINE - PHASE VI  
 OGLALA SIOUX RURAL WATER SUPPLY SYSTEM  
 FINISHED WATER - PLAN & PROFILE  
 STA. 824+00 TO STA. 850+00

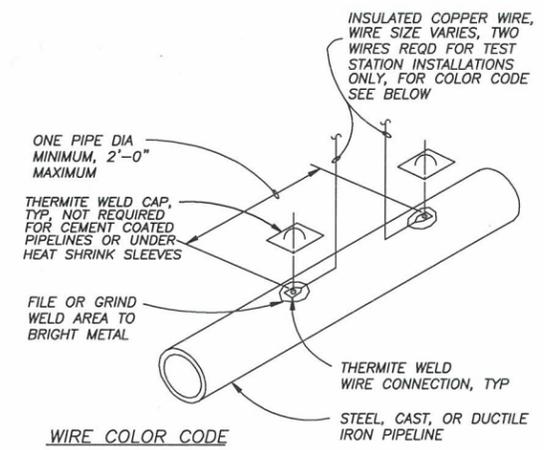
PROJECT NO. 2246.012.02  
 SHEET NUMBER 47  
 DRAWING NUMBER C-40



- NOTES:**
1. COPPER SLEEVE REQUIRED FOR THERMITE WELDING OF #10 AWG AND SMALLER WIRE.
  2. USE COPPER SLEEVE FOR THERMITE WELDING OF #4 AND #2 AWG JOINT BONDING WIRES.
  3. WELDER AND CARTRIDGE SIZE VARIES ACCORDING TO SURFACE SHAPE, MATERIAL AND HORIZONTAL OR VERTICAL SURFACE. CONSULT WELDER MANUFACTURER FOR RECOMMENDED WELDER AND CARTRIDGE.
  4. FOR MULTIPLE WIRE CONNECTIONS TO PIPE SEPARATE THERMITE WELD WIRE CONNECTIONS BY ONE PIPE DIAMETER MINIMUM, 2'-0" MAXIMUM.
  5. USE 15 GRAM MAXIMUM SIZE WELD CARTRIDGES FOR CONNECTIONS TO PETROLEUM AND NATURAL GAS PIPELINES OR STRUCTURES. WIRE CONNECTIONS SHALL BE AS SPECIFIED AND APPROVED BY THE OWNER.
  6. COMPLETE THERMITE WELD CONNECTIONS IN ACCORDANCE WITH (13903)
  7. COAT COMPLETED THERMITE WELD CONNECTIONS WITH ROYSTON HANDYCAP II AND 747 PRIMER OR HEAT SHRINK SLEEVE AS SPECIFIED.
  8. COLOR CODE WIRES ACCORDING TO WIRE COLOR CODE (13902)
  9. ATTACH THERMITE WELD TO STUD OR WELD BASE PLATE IF PROVIDED.

**WIRE CONNECTION FOR VERTICAL AND HORIZONTAL SURFACES** (13901)  
NTS

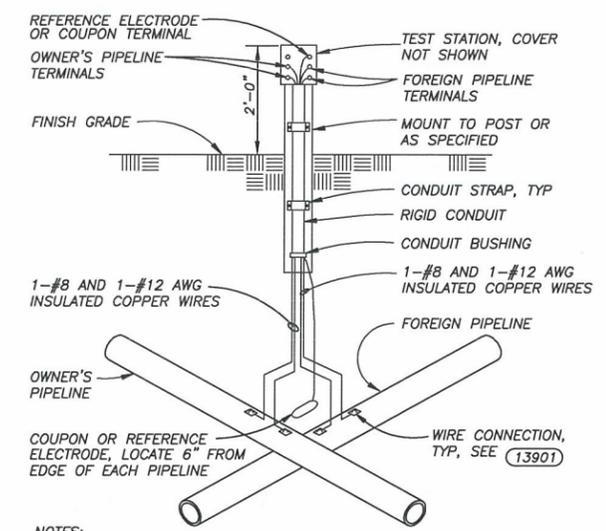
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- WIRE COLOR CODE**
1. PIPELINE TEST WIRES:  
WATER - BLUE  
FOREIGN PIPELINES - WHITE OR AS REQUESTED BY FOREIGN PIPELINE COMPANY
  2. UNPROTECTED PIPELINE - BLACK
  3. CASINGS - ORANGE
  4. ANODE LEADS - BLACK
  5. REFERENCE ELECTRODE WIRES - YELLOW

**PIPELINE WIRE CONNECTION** (13902)  
NTS

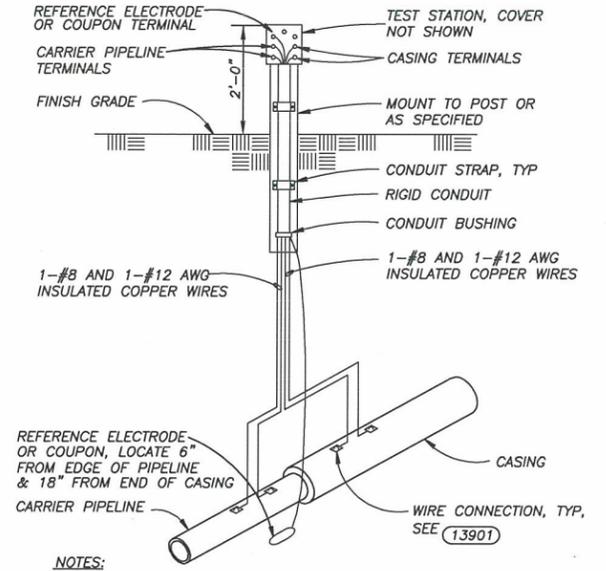
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- NOTES:**
1. OBTAIN APPROVAL OF FOREIGN PIPELINE OWNER PRIOR TO EXCAVATION.
  2. WIRE CONNECTIONS TO FOREIGN PIPELINE SHALL BE MADE BY FOREIGN PIPELINE REPRESENTATIVE.
  3. INSTALL REFERENCE ELECTRODES OR COUPONS ONLY AT TEST STATIONS INDICATED ON TEST STATION LOCATION SCHEDULE.
  4. COLOR CODE WIRES ACCORDING TO WIRE COLOR CODE (13902)

**TYPE P-F POST MOUNTED TEST STATION** (13923)  
NTS

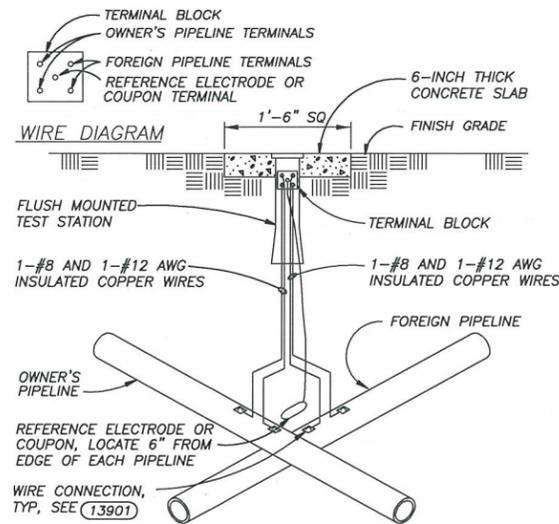
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- NOTES:**
1. INSTALL REFERENCE ELECTRODES OR COUPONS ONLY AT TEST STATIONS INDICATED ON TEST STATION LOCATION SCHEDULE.
  2. COLOR CODE WIRES ACCORDING TO WIRE COLOR CODE (13902)

**TYPE P-C POST MOUNTED TEST STATION** (13924)  
NTS

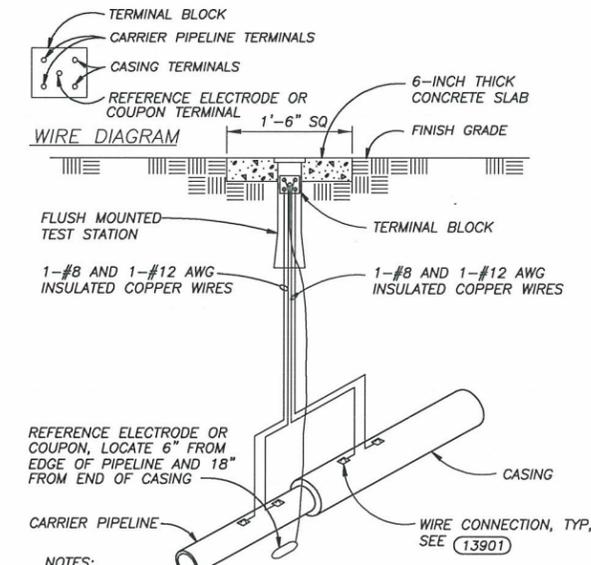
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- NOTES:**
1. OBTAIN APPROVAL OF FOREIGN PIPELINE OWNER PRIOR TO EXCAVATION.
  2. WIRE CONNECTIONS TO FOREIGN PIPELINE SHALL BE MADE BY FOREIGN PIPELINE REPRESENTATIVE.
  3. PROVIDE SUFFICIENT SLACK IN TEST WIRES TO ALLOW TERMINAL BLOCK TO EXTEND 18" OUT OF TEST STATION. COIL WIRES IN TEST STATION.
  4. INSTALL REFERENCE ELECTRODES OR COUPON ONLY AT TEST STATIONS INDICATED ON TEST STATION LOCATION SCHEDULE.
  5. COLOR CODE WIRES ACCORDING TO WIRE COLOR CODE (13902)

**TYPE F-F FLUSH MOUNTED TEST STATION** (13933)  
NTS

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- NOTES:**
1. PROVIDE SUFFICIENT SLACK IN TEST WIRES TO ALLOW TERMINAL BLOCK TO EXTEND 18" OUT OF TEST STATION. COIL WIRES IN TEST STATION.
  2. INSTALL REFERENCE ELECTRODES OR COUPON ONLY AT TEST STATIONS INDICATED ON TEST STATION LOCATION SCHEDULE.
  3. COLOR CODE WIRES ACCORDING TO WIRE COLOR CODE (13902)

**TYPE F-C FLUSH MOUNTED TEST STATION** (13934)  
NTS

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REG. NO. 5036  
TIMOTHY ROBERT BERRY  
SOUTH DAKOTA

DRAWN BY: JMH  
CHK'D BY: JMH  
APPR BY: TRB  
DATE: 4/20/10  
Q.A. REVIEW BY: \_\_\_\_\_  
DATE: \_\_\_\_\_

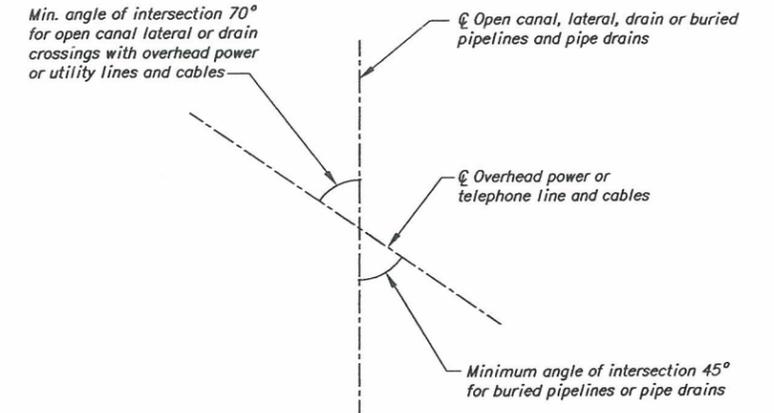
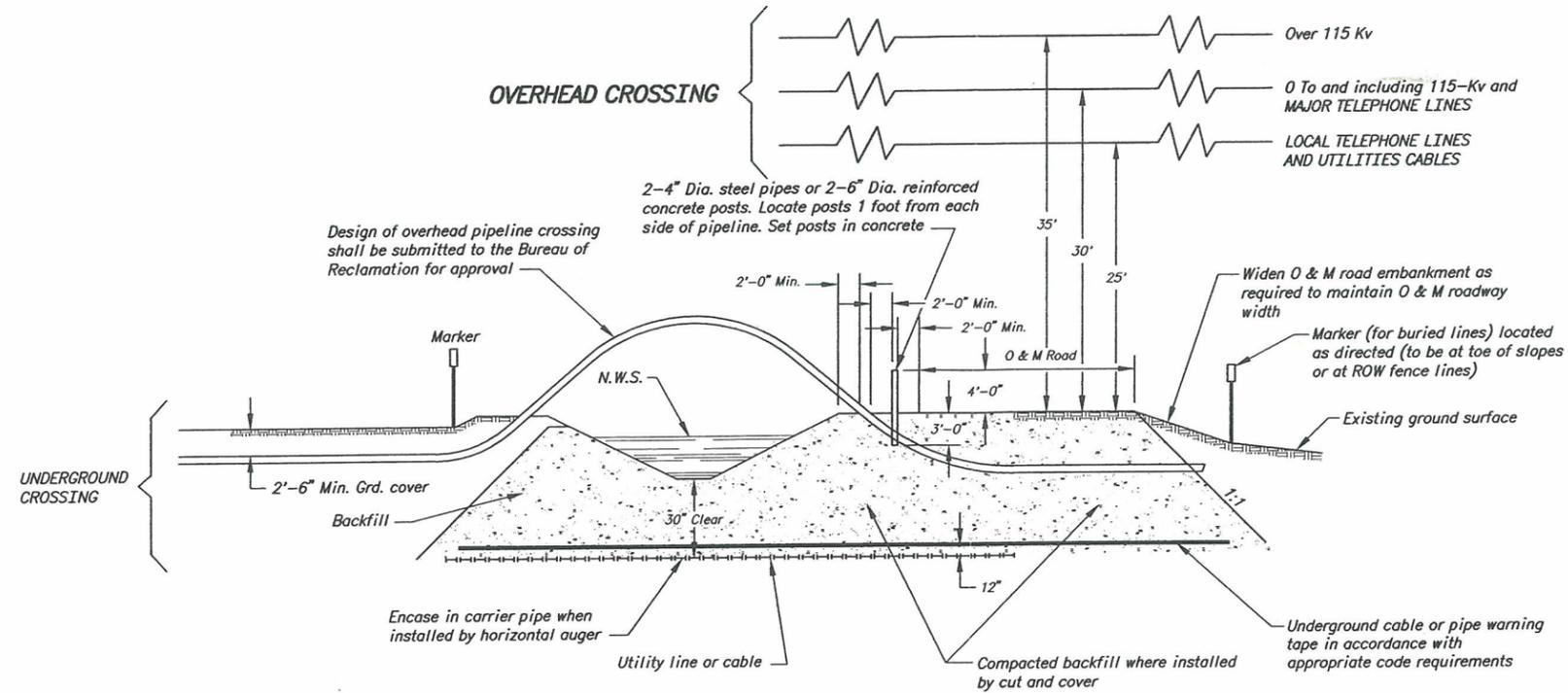
OGLA LA SIOUX RURAL WATER SUPPLY SYSTEM  
TransCanada Keystone Pipeline Crossing of Saurh Core Pipeline  
Near Draper SOUTH DAKOTA

CORROSION PROTECTION DETAILS

PROJECT NUMBER 2246.022.08  
SHEET NUMBER 73  
DRAWING NUMBER CP-1

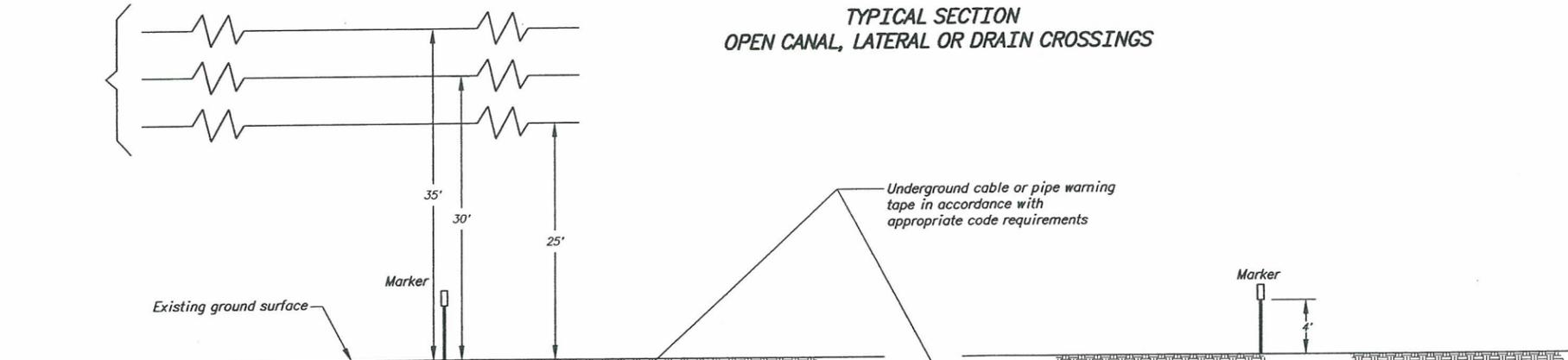
VOLTAGE

OVERHEAD CROSSING

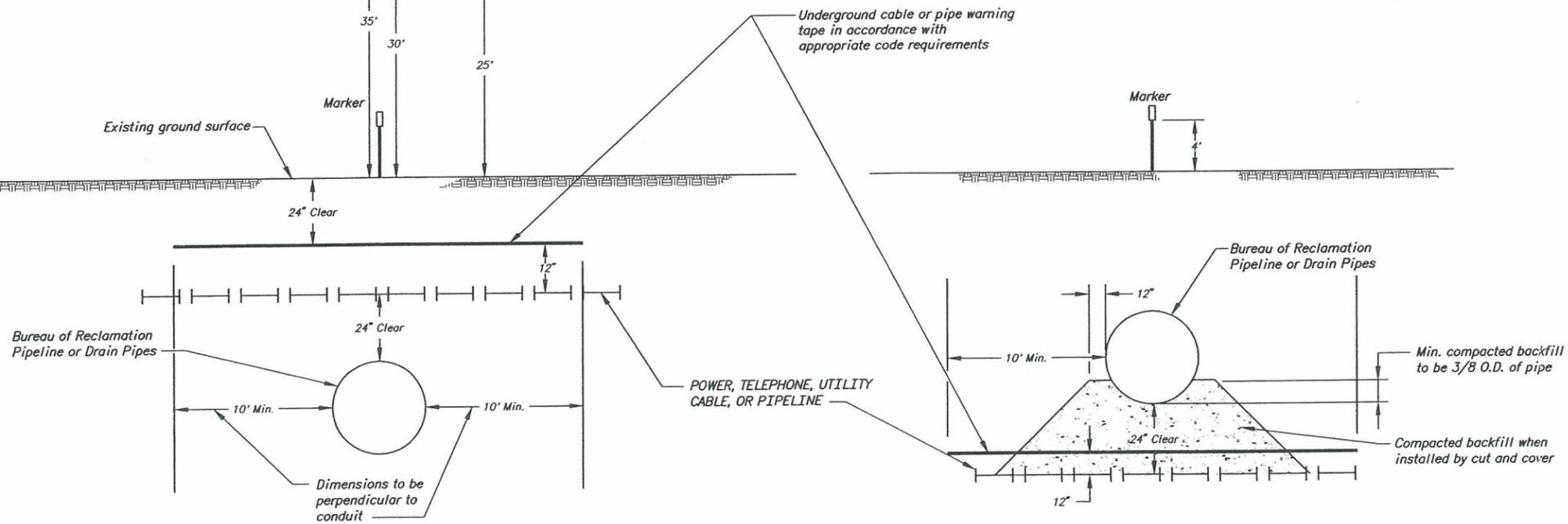


CROSSING PLAN

TYPICAL SECTION OPEN CANAL, LATERAL OR DRAIN CROSSINGS



UNDERGROUND CROSSING



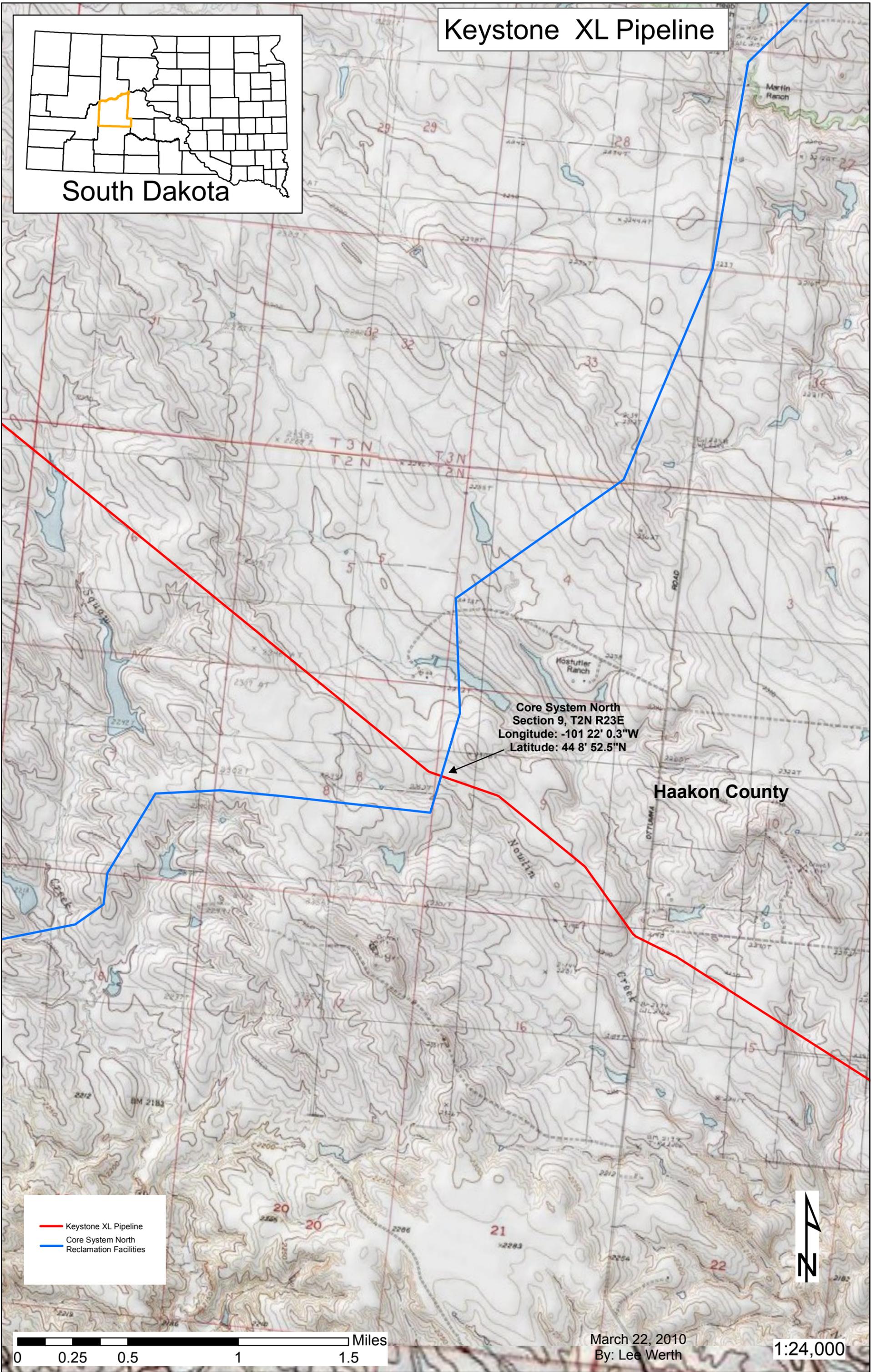
TYPICAL SECTION PIPELINE OR DRAIN CROSSING

NOTES

1. Drawing is not to scale.
2. Overhead crossing clearances are minimum for all conditions.
3. Any additional clearances or permits required for construction shall be provided by the Contractor.
4. Conductor clearance shown is for 60° F and final unlocked sag.

REV NO	03/14/2002	REDRAWN AND REVISED
1	600-L.K.L., P.E.	
ALWAYS THINK SAFETY		
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF RECLAMATION PICK-SLOAN MISSOURI BASIN PROGRAM		
<b>STANDARD CROSSING &amp; CLEARANCE REQ.</b>		
<b>UTILITY LINES AND CABLES</b>		
DESIGNED	D. ARBUHNOT	TECH. APPROVAL S. SHUMMOTO
DRAWN	J. POLITRA	SUBMITTED D. ARBUHNOT
CHECKED	D. ARBUHNOT	APPROVED J. M. VERZURI
CADD SYSTEM	CADD FILENAME	DATE AND TIME PLOTTED
AutoCAD	000008LY	03/15/02
BILLINGS, MONTANA	SHEET 1 OF 1	01/11/2002
		<b>40-600-51</b>

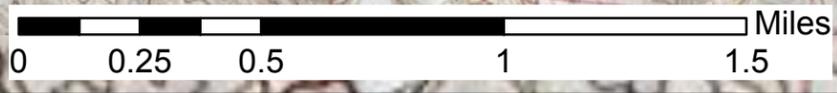
# Keystone XL Pipeline



Core System North  
Section 9, T2N R23E  
Longitude: -101 22' 0.3"W  
Latitude: 44 8' 52.5"N

Haakon County

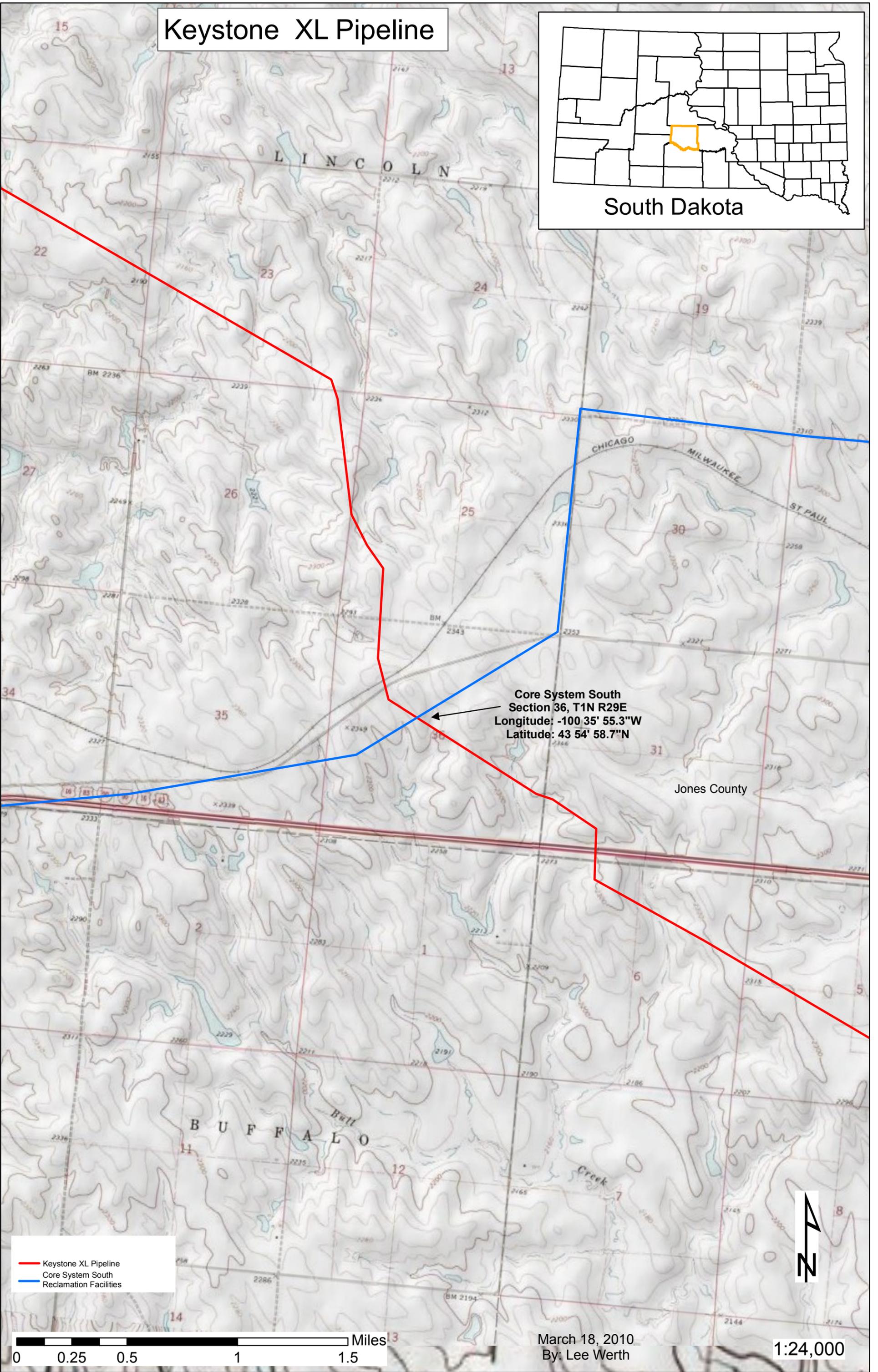
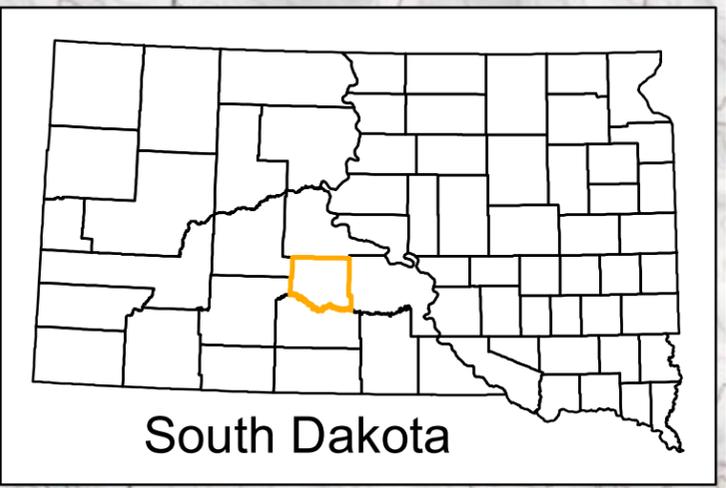
— Keystone XL Pipeline  
— Core System North Reclamation Facilities



March 22, 2010  
By: Lee Werth

1:24,000

# Keystone XL Pipeline



— Keystone XL Pipeline  
— Core System South  
— Reclamation Facilities



March 18, 2010  
By: Lee Werth

1:24,000



## **Irrigation Crossings**

## **General Requirements**

## Utility Crossing Reclamation's Canal

Utility crossings include open ditch laterals, subsurface and surface drains, levees, and similar facilities.

### General Requirements:

1. Utilities crossing Reclamation canals should be designed to cross perpendicular (between 70 and 90 degrees).
2. Pier construction in the canal for new utility crossings will not be allowed. New utility crossings will be free span design.
3. Open cut crossings of reclamation canals and ditches, when allowed, require replacing linings to re-establish the original construction style and materials (i.e., disturbed concrete lining panels will be removed in their entirety and replaced, membrane lining and earth or concrete protective cover will be re-constructed, gravel and canal under-drainage systems will be re-established to full working order, etc.) Proposed methods of construction will be prepared and provided for approval.
4. For backfill/compaction requirements, refer to Section 02302 – Compacting Earth Materials.
5. Boring and jacking of a utility will constructed through the embankment foundation materials. Boring and jacking of a utility through canal embankments or protective levees will not be permitted. Applicants will make special design and construction considerations with bored crossings under canals containing water during construction. Among these will be using proper bentonite slurry to seal the annulus space between the utility conduit and the boring cavity from canal seepage.

The applicant's drilling plan will cover:

- a. Drilling methods and equipment.
- b. Methods for preserving existing foundation material.
- c. Methods and equipment to determine the presence of quick soil conditions or scouring and caving.
- d. Proposed method for installation and removal if casings are used.
- e. Methods and equipment for accurately determining the depth of concrete and actual or theoretical volume placed.

The applicant's contingency plan will cover:

- a. Means to repair facilities.
- b. Minimum flows after an event.
- c. Review of geotechnical conditions.
- d. Assessment of how the proposed mitigations will address geotechnical conditions.
- e. Methods of restoring foundation materials.

- f. List of material, equipment, and personnel with qualifications to be used during mitigation work.
  - g. A seal from a Professional Engineer on all relevant plans and drawings.
6. When horizontal directional drilling (HDD) or other trenchless methods are used, canal seepage conditions may be aggravated by the collapse of the canal foundation material into the annular void between the bore and pipe. Penetration through the top stratum of fine-grained materials may concentrate seepage at those locations. Pipe installed with trenchless methods shall proceed only after completion of a comprehensive evaluation of the following:
- a. Comprehensive understanding of the subsurface soil and groundwater conditions to a minimum depth of 20 feet below the lowest pipe elevation.
  - b. Locations of the HDD pipe penetration entry and exit.
  - c. Construction procedures.
  - d. Allowable uplift pressures.
  - e. Onsite quality control and quality assurance monitoring during construction operations.
  - f. Grouting of the pipe annulus.
  - g. Backfilling of any excavated areas.
  - h. Repair and reinstatement of the construction staging areas.

A geotechnical report will be submitted with the application for review prior of the proposed utility crossing.

- 7. Cut and cover constructed utilities under Reclamation canals shall be in accordance with drawing 40-600-51.
- 8. Reclamation's ongoing O&M activities will not be disturbed during crossing construction. The primary or secondary operating roads shall be kept available for Reclamation use at all times.
- 9. Canal embankments will be re-built or repaired with materials and standards equal to or better than the existing embankments.
- 10. Disturbed areas shall be reseeded in accordance with Section 02924 – Seeding and Soil Supplements.
- 11. Drawings will be stamped and signed by a Professional Engineer and contain the following information:
  - a. Canal milepost or station at each proposed crossing, utility size and location, and type of utility or material transported.
  - b. Maximum utility operating pressure, type of pipe, joints, wall thickness, maximum test pressure, and description of test procedures.
  - c. Type of sleeve/casing (when allowed) including diameter, joints, and wall thickness.

- d. For utilities attached to a bridge or an overchute, details showing the structure name, superstructure, abutments, spacing or utility supports on the structure, location of other attached utilities, and structural calculations.
- e. Protective coatings and corrosion control measures.
- f. Method of handling pipeline expansion and contraction.
- g. Location of the nearest shutoff valve on each side of the crossing.
- h. Location and details of thrust restraints.
- i. Design code(s) used for the utility crossing.
- j. Location, including depth, of the buried pipeline communication and control cables.
- k. Other existing utility easements in the immediate vicinity.

#### **Hazardous Material Carrier Requirements:**

1. Pipelines carrying hazardous material or pollutants (e.g., oils, gasoline, sewage, contaminated waters, and non-potable waters) will be designed for a reduced risk of failure in the portion within Reclamation's ROW. The design will require either:
  - a. Designing the crossing pipeline with an additional 50 percent working pressure factor or
  - b. Using secondary containment (casing pipe) for all hazardous material pipelines.
2. To minimize the amount of any hazardous material entering the canal, Reclamation may require the installation of a block (gate) valve and or a check valve on each side of the canal between the ROW boundary and the canal prism. When selecting the types of valves, take into account the flow direction and terrain.
3. A final hazardous material spill contingency plan and an emergency response plan shall be approved by Reclamation prior to the start of construction.
4. A monitoring program and/or Supervisory control and Data Acquisition system alarm may be required depending on the hazardous material be transported. This applies to all "overcrossings" and "undercrossings" when the hydraulic grade line is with 60 inches of the canal liner or when geology would promote this requirement.

#### **Utility Crossing Reclamation's Underground Pipelines**

1. The applicant will submit the procedures, excavation plans, schedules, as well as type and weight of the construction equipment to be used for crossing the Reclamation pipeline.
2. For utilities crossing above or under the Reclamation pipeline, the vertical clearance between the utility and the Reclamation pipeline shall be as shown on drawing 40-600-51.
3. The location of the Reclamation pipeline through the proposed construction area shall be shown on the plans. Prior to Reclamation approval of the crossing, the pipeline shall be located and exposed by "potholing." The "pothole" locations shall be shown on the

drawings. Elevations of the existing Reclamation pipeline shall also be shown on the drawings.

4. Drawings shall contain the following:
  - a. Reclamation milepost or stationing at each proposed crossing, pipeline size and location, and type of utility or material transported.
  - b. Maximum utility operating pressure, type of pipe and joints, maximum test pressure and description of test procedures, wall thickness, and utility pipe classification.
  - c. Type of sleeve/casing pipe (when allowed) including diameter, joints, and wall thickness.
  - d. Protective coatings and corrosion control measures.
  - e. Location of nearest shutoff valve on each side of the crossing.
  - f. Location and details of thrust restraint.
  - g. Design code(s) used for utility crossing.
  - h. Location, including depth, of the Reclamation pipeline.
  - i. Other existing utility easements in the immediate vicinity.
  - j. Detectable warning tape will be required over trenched utilities.
  - k. For trench backfill/compaction requirements, see Section 02302 – Compacting Earth Materials.
  - l. Embankments will not be allowed within Reclamation's ROW where underground pipeline exists.
5. Disturbed areas shall be reseeded in accordance with Section 02924 – Seeding and Soil Supplements.

SECTION 02302 - COMPACTING EARTH MATERIALS

PART 1 GENERAL

1.01 REFERENCES

A. ASTM International (ASTM)

1. ASTM D 422-63(2002) Particle-Size Analysis of Soils
2. ASTM D 653-07d Terminology Relating to Soil, Rock, and Contained Fluids
3. ASTM D 698-07 Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft<sup>3</sup> (600 kN-m/m<sup>3</sup>))
4. ASTM D 1140-00(2006) Amount of Material in Soils Finer than the No. 200 (75- $\mu$ m) Sieve
5. ASTM D 1556-07 Density and Unit Weight of Soil in Place by the Sand-Cone Method
6. ASTM D 2216-05 Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass
7. ASTM D 2487-06 Classification of Soils for Engineering Purposes (Unified Soil Classification System)
8. ASTM D 2488-06 Description and Identification of Soils (Visual-Manual Procedure)
9. ASTM D 4253-00(2006) Maximum Index Density and Unit Weight of Soils Using a Vibratory Table
10. ASTM D 4254-00(2006) Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density
11. ASTM D 4318-05 Liquid Limit, Plastic Limit, and Plasticity Index of Soils
12. ASTM D 4564-02a Density of Soil in Place by the Sleeve Method
13. ASTM D 4643-00 Determination of Water (Moisture) Content of Soil by the Microwave Oven Heating
14. ASTM D 4718-87(2001) Correction of Unit Weight and Water Content for Soils Containing Oversize Particles
15. ASTM D 4914-99 Density of Soil and Rock in Place by the Sand Replacement Method in a Test Pit
16. ASTM D 4959-07 Determination of Water (Moisture) Content of Soil by Direct Heating

n.	USBR 5530-89	Determining the Maximum Index Unit Weight of Cohesionless Soils
o.	USBR 5605-89	Determining Permeability and Settlement of Soils Containing Gravel
p.	USBR 7205-89	Determining Unit Weight of Soils In-Place by the Sand-Cone Method
q.	USBR 7215-89	Determining the Unit Weight of Soils In-Place by the Sleeve Method
r.	USBR 7220-89	Determining Unit Weight of Soils In-Place by the Sand Replacement Method in a Test Pit
s.	USBR 7221-89	Determining Unit Weight of Soils In-Place by the Water Replacement Method in a Test Pit
t.	USBR 7230-89	Determining Unit Weight and Moisture Content of Soil In-Place - Nuclear Moisture-Density Gauge
u.	USBR 7240-89	Performing Rapid Method of Construction Control
v.	USBR 7250-89	Determination of Percent Relative Density
w.	USBR 7255-89	Determining the Percent Compaction of Earthwork for Construction Control

## 1.02 DEFINITIONS

- A. Use definitions from USBR 3900 or ASTM D 653.
- B. Control Fraction: The portion of a soil sample consisting of particles smaller than a designated sieve size. The fraction is used to compare in-place unit weight with standard laboratory unit weight. The control sieve size depends on the laboratory test used (USBR 7230).
- C. C-Value: The ratio expressed as a percentage of (1) in-place unit weight at fill moisture content to (2) the wet unit weight of a laboratory-compacted specimen prepared at fill moisture content as determined by the rapid method of construction control (USBR 7240, ASTM D 5080). The C-Value is a comparison of compactive effort of field compaction equipment to standard laboratory compactive effort.
- D. D-value: The ratio expressed as a percentage of (1) in-place wet unit weight at fill moisture content to (2) laboratory maximum wet unit weight as determined from a compaction curve constructed at fill moisture content as determined by the rapid method of construction control. The D-value is the equivalent of percent compaction (USBR 7240, ASTM D 5080).

- E. Percent Relative Compaction: The percent compaction of a cohesionless soil where the laboratory maximum density is determined by Maximum Index Unit Weight test (USBR 5530, ASTM D 4253).
- F. Percent Relative Density - ( $D_r$  percent) : The ratio of, (1) the difference between void ratio of a cohesionless soil in the loosest state and any given void ratio, to (2) the difference between its void ratios in the loosest state and densest state (USBR 7250)
- G. Special compaction: Compaction close to structures or in spaces not accessible by rollers.

### 1.03 PROJECT ENVIRONMENTAL REQUIREMENTS

- A. Do not place and compact soil under following conditions:
  - 1. Ambient air temperature below freezing.
  - 2. Rain that creates puddles in clayey or silty materials.
  - 3. Heat or wind or both that dries material below special moisture conditions.
  - 4. Ice or snow pockets are visible in soil being placed.

## PART 2 PRODUCTS

### 2.01 CLASSIFICATION

- A. When required, classify earth materials using the Unified Soil Classification System (USCS) according to ASTM D 2487 (or USBR 5000) or ASTM D 2488 (or USBR 5005).
  - 1. Gradation tests for classification: ASTM D 422 or D 1140 (USBR 5325, 5330, or 5335).
  - 2. Atterberg limits testing for classification: ASTM D 4318 (USBR 5350, 5355, or 5360).

### 2.02 SOIL TYPES

- A. Clean Fill:
  - 1. Any soil classification except for Peat (PT), Organic Silts and Organic Clays (OL and OH), and Elastic Silt (MH).
  - 2. Free of roots, stumps, limbs, vegetation, organic matter, and ice.
  - 3. Does not contain construction debris, scrap materials, refuse, man-made wastes, or chemical or hydro-carbon contamination.
- B. Do not use frozen soils.
- C. Special Gradations/Plasticity

1. In some cases, such as embedment for buried pipe, special gradations and/or plasticity characteristics may be required. These requirements are given for each special material required in the appropriate section.

### 2.03 DESIGNATION OF SOILS FOR COMPACTION

- A. Requirements for lift thickness, method of compaction, and method of determining degree of compaction depends on whether soil is considered to be silty or clayey, cohesionless, or cohesionless containing some silt and clay.
- B. Silty or Clayey Soils:
  1. Contain appreciable amounts of fines (generally more than 15 percent fines).
  2. Classified as GM, GC, SM, SC, CL, ML, CH, or any dual symbol or borderline soil beginning with one of these symbols.
- C. Cohesionless Soils:
  1. Contain few fines (generally less than 5 percent fines).
  2. Classified as GW, SW, GP, SP, or any borderline soil beginning with any of these symbols.
- D. Cohesionless Soils Containing Some Clay and Silt:
  1. Contain some clay and silt contain between 5 and 15 percent fines.
  2. Classified with dual symbol soils such as GW-GM, GW-GC, GP-GM, GP-GC, SW-SM, SW-SC, SP-SM, SP-SC.

### 2.04 MAXIMUM PARTICLE SIZE

- A. Backfill against specific structures:
  1. Maximum particle size limitations described in appropriate sections.
  2. Otherwise, no cobbles or boulders.
- B. Compacted soil for embankment: No cobbles larger than 5 inches or boulders.

## PART 3 EXECUTION

### 3.01 SURFACE PREPARATION

- A. Clear, grub, and strip.
- B. Prepare surface so that first compacted lift will be placed on firm, stable base. Compact surface to specified compaction, if necessary.

- C. For water-retaining compacted fill, scarify and moisten surface to provide satisfactory bonding surface before placing layer of material to be compacted.
- D. Do not place soil on frozen surface.

### 3.02 SOIL MOISTURE CONTENT

- A. Moisten or aerate material, as necessary, to provide moisture content that will readily facilitate obtaining specified compaction. Add water to soil only in increments that will permit moisture content to be uniform and homogenous throughout each layer after mixing.
- B. Silty and Clayey Soils:
  - 1. Moisture content during compaction: Not greater than 2 percentage points wet or not less than 2 percentage points dry of optimum moisture content.
  - 2. Add no more than 2 percent water to fill by sprinkling just prior to compaction when fill is clayey and contains dry clods of clay.
    - a. If clayey borrow soil is more than 2 percent below optimum moisture, pre-conditioning and curing may be required to obtain uniform and homogenous distribution of moisture in the clods.
    - b. Use of disks, harrows, or rakes may be required to blend moisture in the borrow area.
  - 3. Moisture content will be determined as follows:
    - a. Moisture content is determined on the minus no. 4 sieve size control fraction material.
    - b. Variation from Optimum Moisture Content:
      - 1) Difference between optimum moisture and compaction moisture can be measured in accordance with ASTM D 5080 (or USBR 7240).
    - c. Moisture Content Comparison:
      - 1) Optimum moisture content determined by ASTM D 698 (or USBR 5500).
      - 2) Compared to field compaction moisture content with moisture contents determined in accordance with:
        - a) ASTM D 2216 (or USBR 5300), or
        - b) ASTM D 6938 (USBR 7230). The moisture from the nuclear gage will require corrections for gage error for the specific soils tested and the moisture content of the total material may require adjustment for the control fraction (see USBR 7230, Method C; ASTM D 4718), or

- c) ASTM D 4959, or ASTM D 4643 (USBR 5315), provided the results have been correlated to ASTM D 2216 (USBR 5300) for specific soil tested.

C. Cohesionless Soils:

- 1. Add water during compaction, as necessary, since these soils are free-draining.

**3.03 PLACEMENT**

- A. Place soils to be compacted in horizontal layers.
- B. If necessary, blend materials so that compacted fill is homogenous and free from lenses, pockets, streaks, voids, laminations, or other imperfections.

**3.04 COMPACTATION**

- A. Compact material with following methods and techniques appropriate to type of soil.
- B. Silty or clayey material in water retaining embankment:
  - 1. Compact with tamping rollers specified above.
  - 2. Uniformly distribute roller passes.
  - 3. Compact in horizontal layers to compacted thickness of 6 inches or less.
  - 4. Scarify lifts as required for lift bonding.
  - 5. Density:
    - a. Percent Compaction, minimum: 95 percent, or
    - b. C-Value and D-value, minimum: 95 percent.
    - c. As determined on portion of soil passing the No. 4 sieve.
- C. Silty or clayey material:
  - 1. Compact with mechanical impact tampers, tamping rollers, vibrating pad foot rollers, rubber tire rollers, other suitable compaction equipment, or equipment travel.
    - a. Uniformly distribute equipment passes.
    - b. Compact in horizontal layers to compacted thickness of 6 inches or less.
  - 2. Special compaction: Compact with hand held impact tampers, or small tamping equipment.
    - a. Uniformly distribute effort.
    - b. Compact in horizontal layers to compacted thickness of 4 inches.
  - 3. Density:

- a. Percent Compaction, minimum: 95 percent, or
  - b. D-value, minimum: 95 percent
  - c. As determined on portion of soil passing the No. 4 sieve.
- D. Cohesionless Soils Containing Some Silt and Clay:
1. Compact in accordance with the procedure above.
  2. Density:
    - a. Percent Compaction, minimum: 95 percent, or
    - b. Relative Compaction, minimum: 95 percent.
    - c. Using whichever testing procedure result requires higher in-place dry density.
- E. Adjustment:
1. Silty and clayey soils containing more than 50 percent gravel: Required D ratio or Percent Compaction may be adjusted in accordance with appropriate curve on Figure 4 in USBR 5605.
- F. Demonstration:
1. Lift thicknesses may vary depending on equipment and methods. Before changing requirements in this section, demonstrate that required density will be obtained.

### 3.05 MEASURE OF COMPACTION

- A. Degree of soil compaction will be determined by one of the following.
- B. Silty or clayey soils:
1. Unit weight of soils in-place:
    - a. ASTM D 1556 (or USBR 7205), or
    - b. ASTM D 4914 (or USBR 7220), or
    - c. ASTM D 5030 (or USBR 7221), or
    - d. ASTM D 6938 (or USBR 7230).
  2. Percent Compaction will be determined by one of the following:
    - a. Rapid Method: ASTM D 5080 (or USBR 7240).
    - b. Laboratory Compaction Test: Comparison of in-place density of minus no. 4 sieve size control fraction to laboratory maximum dry density as determined by ASTM D 698, Procedure A (or USBR 5500).
    - c. Silty and clayey soils containing more than 5 percent gravel:

- 1) In-place unit weight of minus no. 4 size control fraction determined by screening gravel, washing, and determining mass and volume by assuming surface saturated dried moisture as outlined in ASTM D 4718 (USBR 7205).

### 3.06 FIELD QUALITY ASSURANCE

#### A. Testing

1. The Government or its representative will perform tests as required to verify that type of soil used, placement of soil, and compaction of soil conform to contract requirements.
2. Notify the Government 24 hours before compaction work begins and 24 hours before significant change in compaction operations (major change in equipment or procedure used).
3. Notify the Government immediately of equipment change due to breakdown, or re-deployment.

#### B. Testing Frequency

1. Frequency of testing is at discretion of the Government.
2. Greater frequency of testing is normally performed at beginning of new work, new work crew, or new equipment.

#### C. Tests:

1. Standards listed in Table 02302A - Standard Used for Testing, will be used by the Government or its representative for testing compacted soil for conformance with specification requirements. Substitution or modification of standards shall be done only with concurrence of all parties.

Table 02302A - Standard Used For Testing

PROCEDURE	STANDARD NO.
Soil Classification	ASTM D 2487 (or USBR 5000) ASTM D 2488 (or USBR 5005)
Gradation Analysis	ASTM D 422 (or USBR 5325, 5330, 5335)
Atterberg Limits	ASTM D 4318 (or USBR 5350, 5355, 5360)
Moisture Content	ASTM D 2216 (or USBR 5300) ASTM D 6938 (or USBR 7230) ASTM D 4643 (or USBR 5315)
Relative Density of Cohesionless Soils	ASTM D 4253 and ASTM D 4254 (or USBR 5525 and 5530 and 7250)

Table 02302A - Standard Used For Testing

PROCEDURE	STANDARD NO.
In-Place Density: Sand Cone Test Pits  Sleeve Nuclear	ASTM D 1556 (or USBR 7205) ASTM D 4914 (or USBR 7220) ASTM D 5030 (or USBR 7221) ASTM D 4564 (or USBR 7215) ASTM D 6938
Rapid Construction Control	ASTM D 5080 (or USBR 7240)
Laboratory Maximum Density	ASTM D 698, Procedure A (USBR 5500)

D. Contractor Support

1. Provide timely access to areas for density testing and excavate and level an area in compacted material to provide a surface for testing.
  - a. Fills compacted by sheepsfoot rollers are normally tested one or two lifts below surface.
2. When density is being measured by a sand-cone device (ASTM D 1556, USBR 7205), cease construction activity in immediate vicinity of testing.
3. Dig test pits as requested to examine compacted soil against structures or pipe.
4. Backfill test pits to original requirements.
5. Provide warning lights, flags, or other safety devices as needed by testing personnel.
6. Provide adequate lighting for performing test if required because of darkness.

**END OF SECTION**

**SECTION 02924 - SEEDING AND SOIL SUPPLEMENTS**

**PART 1 GENERAL**

**1.01 DEFINITIONS**

A. Pure live seed content: Weight of seed times percent purity times percent germination.

**1.02 DELIVERY STORAGE AND HANDLING**

A. Seed containers:

1. Sealed.

2. Labeled:

a. Identify seed origin on label.

1) Intrastate shipping: In accordance with State Seed Laws and Regulations.

2) Interstate shipping: In accordance with U.S. Department of Agriculture Rules and Regulations under the Federal Seed Act.

**PART 2 PRODUCTS**

**2.01 SEED**

A. Weed seeds classified by State Seed Department:

1. Prohibited noxious weeds: None

2. Restricted noxious weeds: 0.5 percent maximum, by weight.

B. Seed mixture:

1. Purity, minimum: 85 percent.

2. Germination, minimum: 85 percent.

a. Germination test: Less than 1 year old at time of seeding.

3. Uniform mixture shown in Table 02924A - Seed Mixture.

Table 02924A - Seed Mixture

Common Name	Scientific Name	Seeding Rate (Pounds pure live seed per acre)
Pubescent wheatgrass	<i>Agropyron Trichophorum</i>	3
Western wheatgrass	<i>Pascopyrum Smithii</i>	3
Sid oats grama	<i>Bouteloua Curtipendula</i>	2

**2.02 FERTILIZER**

- A. Agricultural grade nitrogen fertilizer and phosphate fertilizer.
  - 1. Nitrogen fertilizer: Urea (46-0-0).

**2.03 STRAW MULCH**

- A. Wheat or barley straw.
- B. Free of mold or other evidence of decomposition.
- C. Free from weed seed.

**2.04 HYDROMULCH**

- A. Silva-Fiber, manufactured by Weyerhaeuser, Tacoma WA, 98477; Spray Mulch X-80 manufactured by Pacific Wood Fibers, PO Box 2109, Redmond WA 98052; or equal, having the following essential characteristics:
  - 1. Wood cellulose fiber.
  - 2. No germination or growth inhibiting factors.
  - 3. Dyed appropriate color to allow visual metering of application.
  - 4. Evenly dispersed and suspended when agitated in water.
  - 5. Forms blotter like ground cover that readily absorbs water and allows infiltration to underlying soil.

**2.05 TACKIFIER**

- A. Mixture of at least three specially blended compatible hydrocolloids.
  - 1. One hydrocolloid will act as a slippery agent during suspension.
  - 2. Will form loose, long-chain-like film on drying
  - 3. No growth or germination inhibiting factors.
  - 4. Hydrates and disperses in circulating water to form homogeneous slurry.
  - 5. Equilibrium air dry moisture content at time of manufacture of 8 percent, plus or minus 2 percent.
  - 6. Minimum water holding capacity: 6-1/2 times weight of dry material.

**PART 3 EXECUTION**

**3.01 SEEDBED PREPARATION**

- A. Complete prior to seeding, and mulching or hydromulching.

- B. Scarify or harrow and rake topsoil to minimum depth of three inches.
- C. Remove stiff clods, lumps, roots, litter, stones, and other foreign material greater than 6 inches in size from the surface. Dispose of removed materials by removal from the site.
- D. Fill or smooth topsoil surface to remove rills, gullies and depressions.
- E. Protect prepared topsoil surfaces from erosion and washouts. Repair damaged surfaces as required.

### 3.02 SEEDING

- A. Seed applied by: (1) broadcast seeding followed by mulching or hydromulching, (2) drilling seed followed by mulching, (3) hydroseeding followed by hydromulching, or (4) hydroseeding and hydromulching.
- B. Apply seed mixture at rate specified in Table 02924A - Seed Mixture.
- C. Seed only between September 1 and November 1 of each year.
- D. Do not seed or fertilize when ambient temperature is below 38 degrees F without approval of the COR.
- E. Do not seed or fertilize when ground is snow covered.
- F. Do not seed, fertilize, or mulch, or hydroseed when wind velocities prevent uniform application of materials or would drift materials.
- G. Apply nitrogen fertilizer uniformly at a rate of 30 pounds of nitrogen content per acre (65 pounds per acre of Urea).

### 3.03 BROADCAST SEEDING

- A. Broadcast seed only in areas not accessible for drilling or hydroseeding.
- B. Apply seed and fertilizer separately.
- C. Mechanical broadcasting:
  - 1. Equipment:
    - a. Centrifugal type.
    - b. Pull type similar to fertilizer spreader.
  - 2. Designed and regulated to apply seed uniformly at proper rate per acre.
- D. Hand Broadcasting:
  - 1. By hand broadcaster.
  - 2. By hand.

3. Uniformly applied.
- E. Cover seed with soil to depth of 1/4-inch to 1/2-inch immediately after broadcasting.
1. Use hand rake or float.
  2. Do not use log chain or similar device.

### 3.04 DRILLING SEED

- A. Regulate drill to uniformly distribute seed at rate specified and cover with soil depth of 1/4-inch to 1/2-inch.
- B. Apply seed and fertilizer separately.
- C. Drill crosswise to general slope where possible to safely operate equipment.

### 3.05 MULCHING

- A. Spread within 2 days of spreading seed.
- B. Rate: 2 tons per acre uniformly spread
- C. Anchor with threader.
1. Operate crosswise to slope.
  2. Depth: 3 to 4 inches.
  3. Interval: 6 to 12 inches across slope.

### 3.06 HYDROSEEDING

- A. Seed slurry:
1. Mix to keep homogeneous.
  2. Ingredients:
    - a. Water
    - b. Seed
    - c. Wood cellulose fiber mulch:
      - 1) Rate: 1,000 pounds per acre at 10 percent moisture content.
      - 2) Add to water slurry after seed.
    - d. Fertilizer may be applied with hydroseeding.
  3. Maximum time between batching slurry and application: 1 hour.
- B. Spray apply seed slurry mix uniformly.
- C. Use mulch coloring as metering agent.

D. Apply seed slurry before mulch slurry.

### 3.07 HYDROMULCHING

A. Mulch slurry:

1. Mix to keep homogeneous.
2. Ingredients:
  - a. Water.
  - b. Tackifier.
  - c. Wood cellulose fiber mulch: 3,000 pounds per acre at 10 percent moisture content.
  - d. Nitrogen fertilizer may be applied with hydromulching.
3. Maximum time between batching slurry and application: 1 hour.

B. Spray apply mulch slurry mix uniformly.

C. Use mulch coloring as metering agent.

D. Apply mulch slurry within 24 hours after applying seed.

### 3.08 HYDROSEEDING AND HYDROMULCHING

A. Slurry:

1. Mix to keep homogeneous.
2. Ingredients:
  - a. Water
  - b. Tackifier
  - c. Seed
  - d. Wood cellulose fiber mulch:
    - 1) Rate: 4,000 pounds per acre at 10 percent moisture content.
    - 2) Add to water slurry after seed.
  - e. Fertilizer may be applied with hydroseeding.
3. Maximum time between batching slurry and application: 1 hour.

B. Spray apply slurry mix uniformly.

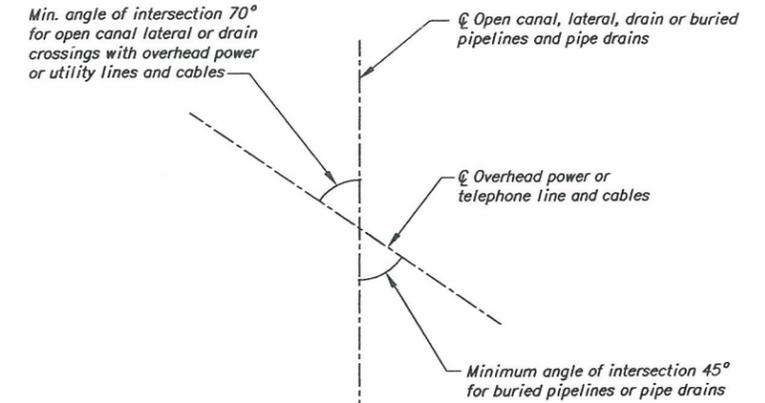
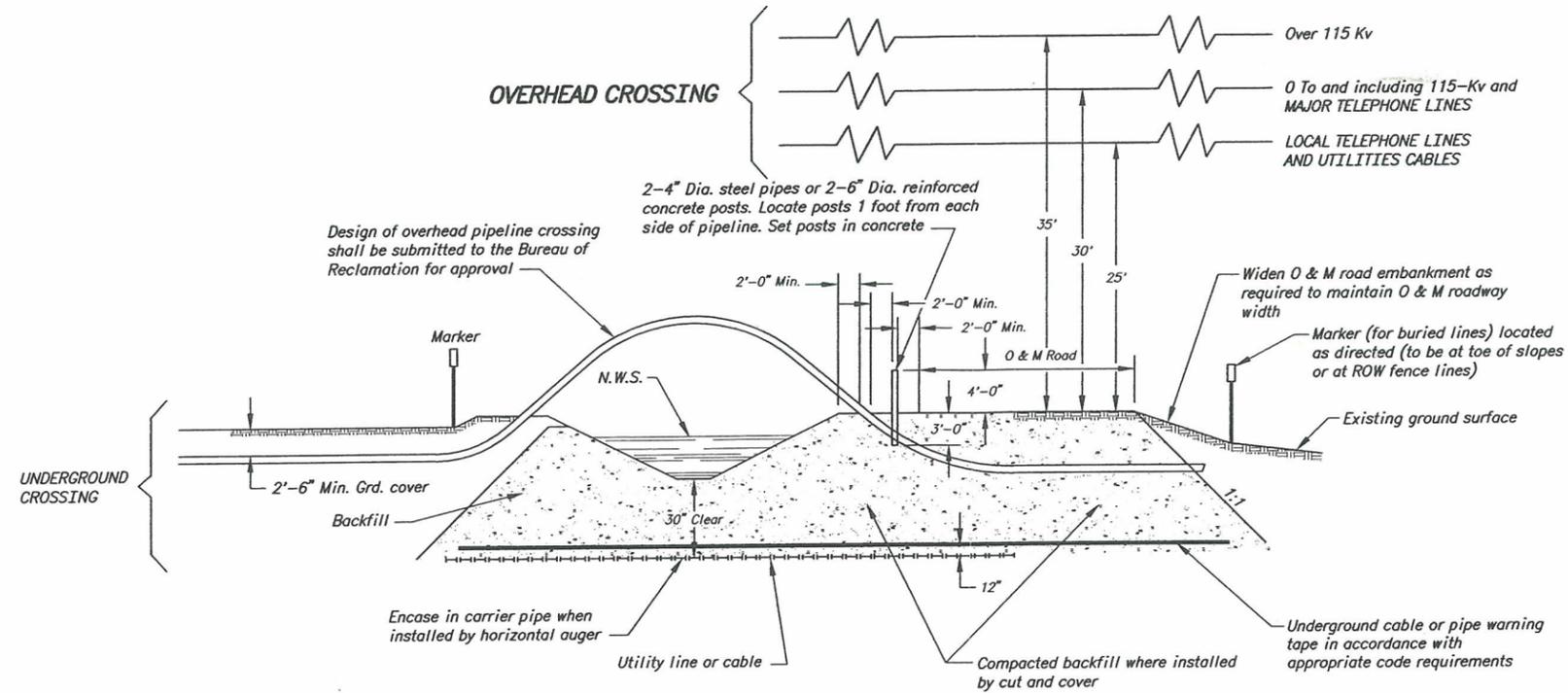
C. Use mulch coloring as metering agent.

**END OF SECTION**

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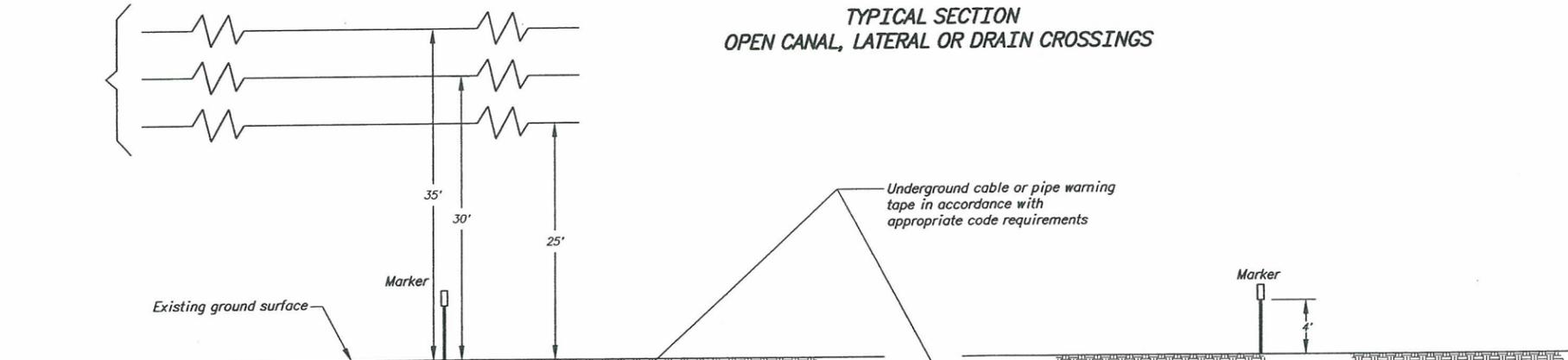
VOLTAGE

OVERHEAD CROSSING

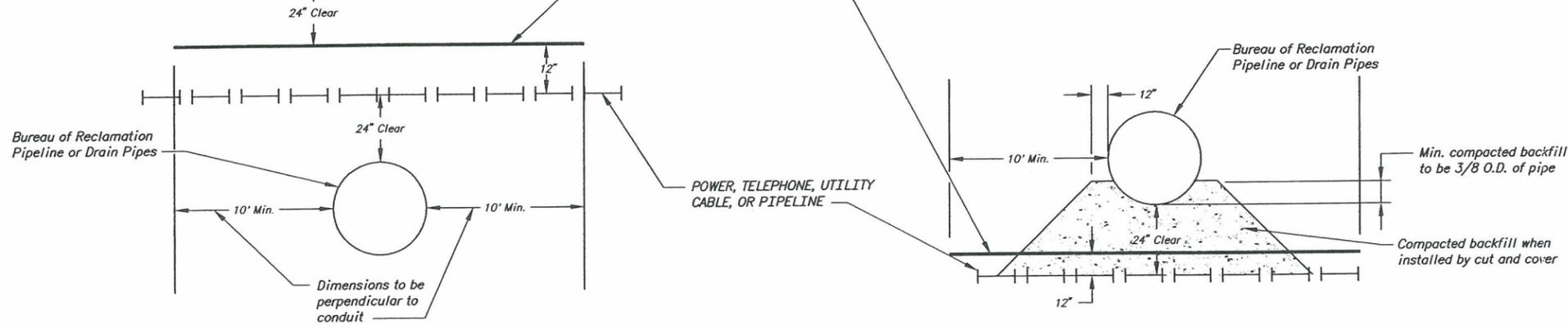


CROSSING PLAN

TYPICAL SECTION OPEN CANAL, LATERAL OR DRAIN CROSSINGS



UNDERGROUND CROSSING



TYPICAL SECTION PIPELINE OR DRAIN CROSSING

NOTES

1. Drawing is not to scale.
2. Overhead crossing clearances are minimum for all conditions.
3. Any additional clearances or permits required for construction shall be provided by the Contractor.
4. Conductor clearance shown is for 60° F and final unlocked sag.

REV NO	03/14/2002	REDRAWN AND REVISED
1	600- L.K.L., P.E.	
ALWAYS THINK SAFETY		
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF RECLAMATION PICK-SLOAN MISSOURI BASIN PROGRAM		
<b>STANDARD CROSSING &amp; CLEARANCE REQ.</b>		
<b>UTILITY LINES AND CABLES</b>		
DESIGNED	D. ARBUHNOT	TECH. APPROVAL S. SHUMMOTO
DRAWN	J. POLTRA	SUBMITTED D. ARBUHNOT
CHECKED	D. ARBUHNOT	APPROVED J. M. VERZURI
CADD SYSTEM	CADD FILENAME	DATE AND TIME PLOTTED
AutoCAD	000008LY	03/15/02
BILLINGS, MONTANA	SHEET 1 OF 1	01/11/2002
		<b>40-600-51</b>

**Vandalia South Canal**

**Vandalia South Canal**  
**Glasgow Unit, Milk River Project-Montana**  
S1/2, Section 12, T27N, R41E, Valley County

The Vandalia South Canal delivers irrigation water from the Milk River to farmlands located along the south side of the Milk River. The canal is approximately 46 miles long and has a diversion capacity of 300 cubic feet per second. The irrigation season normally runs from mid-April through September 30<sup>th</sup> of each year. Depending on snow-pack and rainfall, the irrigation season can vary in length.

The proposed XL pipeline will cross the canal at approximate Station 2375+00±50. Exhibit A shows the proposed pipeline crossing with respect to the canal. Exhibit B shows the profile of the canal in the vicinity of the pipeline crossing and the typical cross section of the canal.

Below are the original design dimensions of the canal in the vicinity of the proposed pipeline crossing. Actual dimensions may vary from these values. Keystone XL Pipeline is responsible for verifying actual field dimensions.

- Bottom width—5.00 feet
- Side slopes—1.5:1
- Water depth—3.10 feet
- Downhill bank height—5.00 feet

All rights-of-ways for the Glasgow Unit were obtained using the 1890 Canal Act. Reclamation's easement under the 1890 Canal Act can be described as follows:

The 1890 Canal Act granted to the United States an unrestrained right-of-way for ditches and canal for any lands west of the 100th Meridian that were patented after that date. The easements are reserved in the original land patents issued for these lands and are blanket easements covering the entire tracts patented. The 1890 Act granted authority to place the ditches and canals wherever needed and as a result no legal description of the canal was necessary or required to be recorded. Wherever the canal is located is the defined area of use. This includes any supporting features including but not limited to access roads and areas alongside the canal needed for operation and maintenance of the canal.

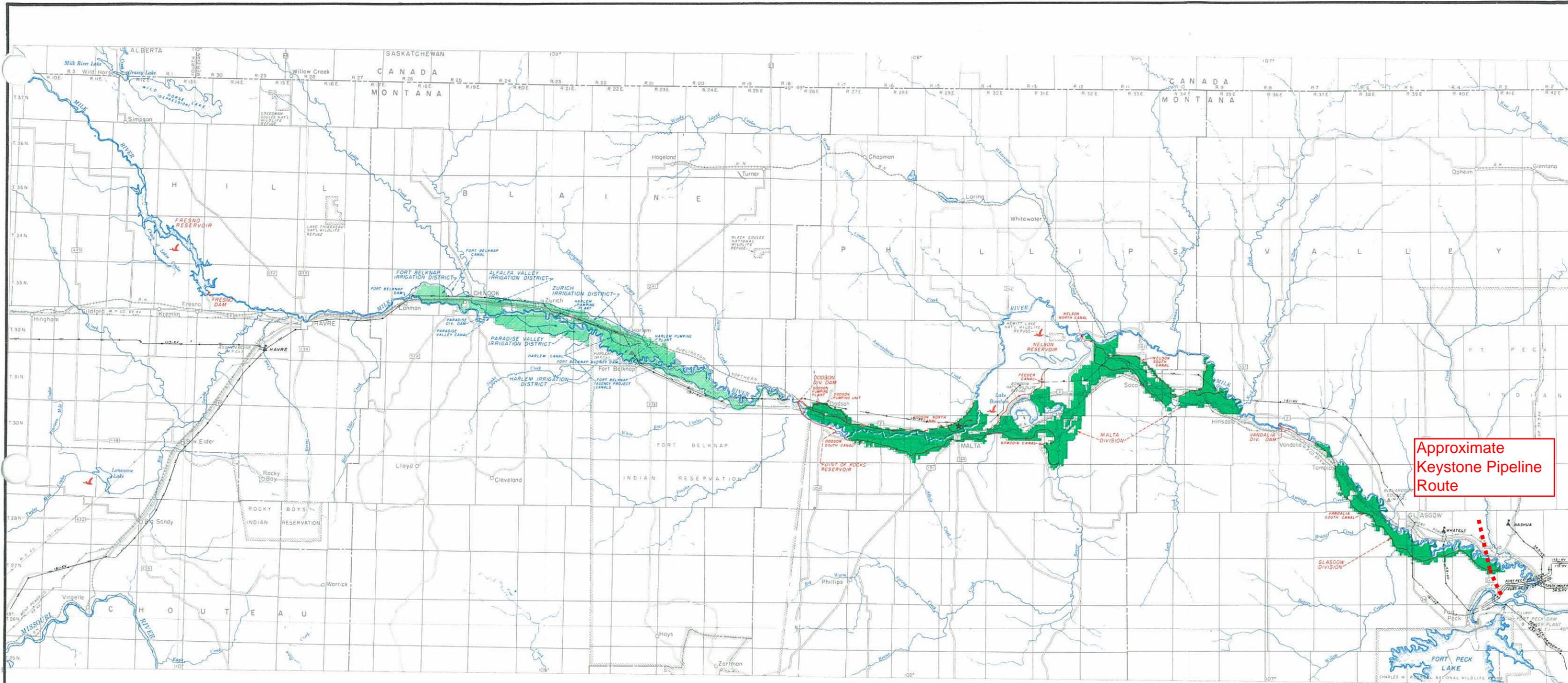
Because the U.S. easement is first in time, any following easements granted by the underlying landowner will be subject to the easement rights of the United States and cannot unreasonably interfere with the U.S. project.

Construction requirements:

- The pipeline must be installed to ensure the minimum clearances shown on Drawing 40-600-51.
- The canal must remain in operation during the irrigation season. If the pipeline crossing is made during the irrigation season, the pipe must be bored under the canal.
- If the pipeline crossing is made during the non-irrigation season, the canal may be open cut. If the canal is open cut, all backfill within the easement boundaries shall be

compacted to 95% density in accordance with specifications Section 02302 –  
Compacting Earth Materials.

- All disturbed areas shall be shaped to facilitate natural drainage and reseeded in accordance with Section 02924 – Seeding and Soil Supplements.
- Pipeline markers and signs shall be installed on both sides of the canal.
- Provide 5 days prior notice work on the Government easement. No work shall be done without the presence of a Government Representative. Contact Mr. Steve Stebbleton, Field Manager, Glasgow Irrigation District at 406-228-2346 and Mr. Steve Davies, Montana Area Office at 406-247-7322.



Approximate  
Keystone Pipeline  
Route



**EXPLANATION**

- CANAL — BUREAU OF RECLAMATION
- TRANSMISSION LINE — W.A.P.A.
- INTERCONNECTION
- POWER PLANT — U.S.C.E.
- PUMPING PLANT — W.A.P.A.
- AREA BENEFITED BY PROJECT WORKS
- ★ PROJECT HEADQUARTERS
- ★ W.A.P.A. WESTERN AREA POWER ADMINISTRATION
- ★ U.S.C.E. UNITED STATES CORPS OF ENGINEERS
- WILDLIFE MANAGEMENT AREA

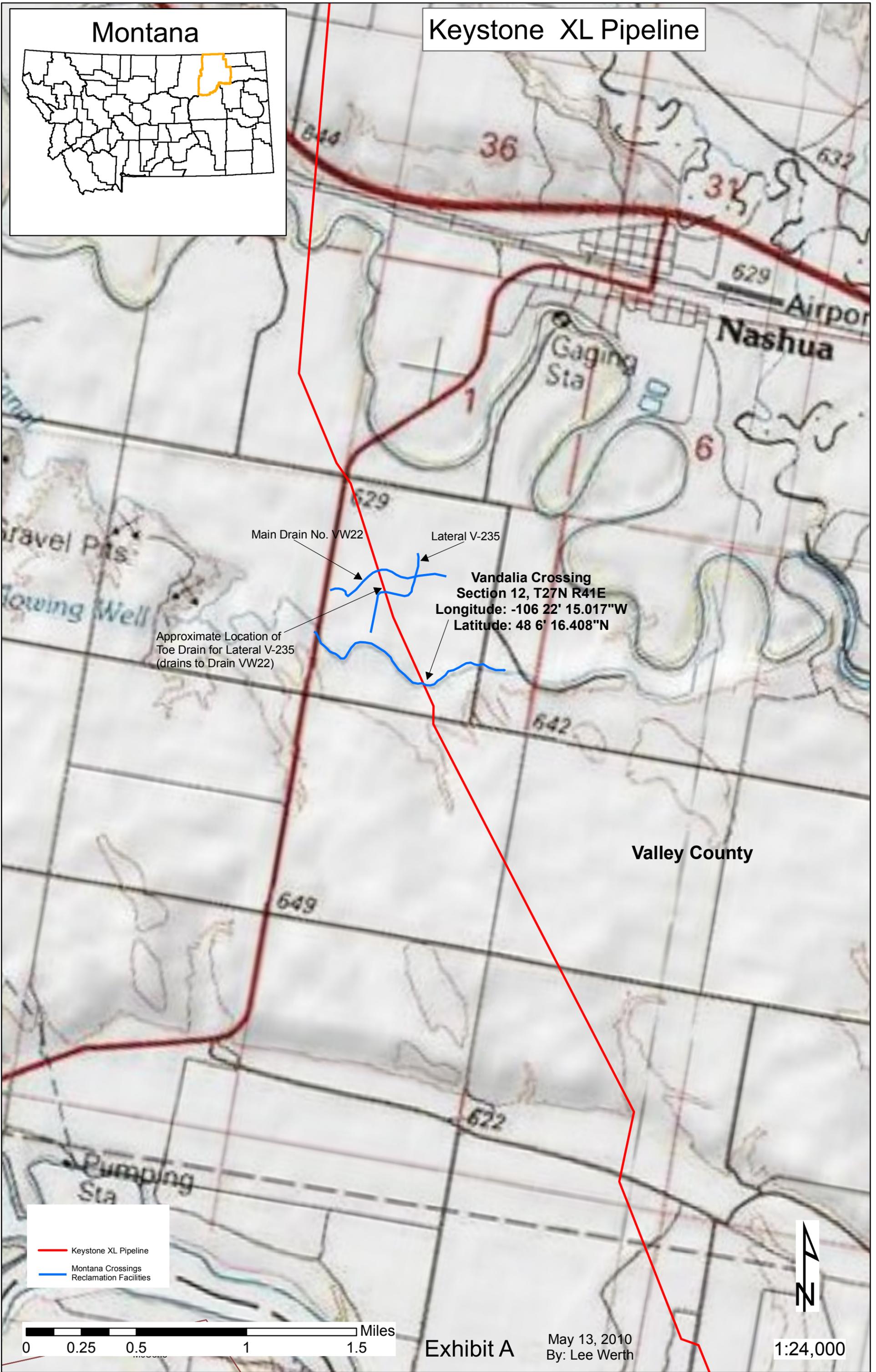
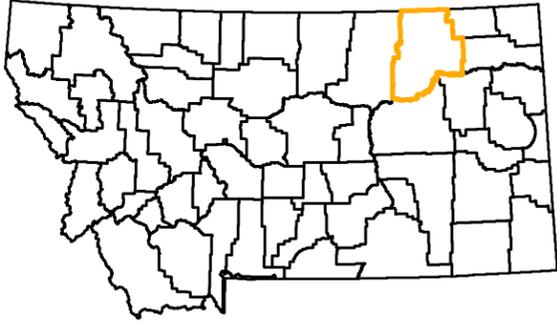
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
JAMES G. WATT, SECRETARY  
BUREAU OF RECLAMATION  
ROBERT N. BROADBENT, COMMISSIONER

**MILK RIVER PROJECT**  
MONTANA  
GREAT PLAINS REGION

MAP NO. 15-600-137  
NOVEMBER 1983

# Montana

# Keystone XL Pipeline



Approximate Location of  
Toe Drain for Lateral V-235  
(drains to Drain VW22)

Main Drain No. VW22

Lateral V-235

**Vandalia Crossing**  
Section 12, T27N R41E  
Longitude: -106 22' 15.017"W  
Latitude: 48 6' 16.408"N

Valley County

— Keystone XL Pipeline  
— Montana Crossings  
— Reclamation Facilities

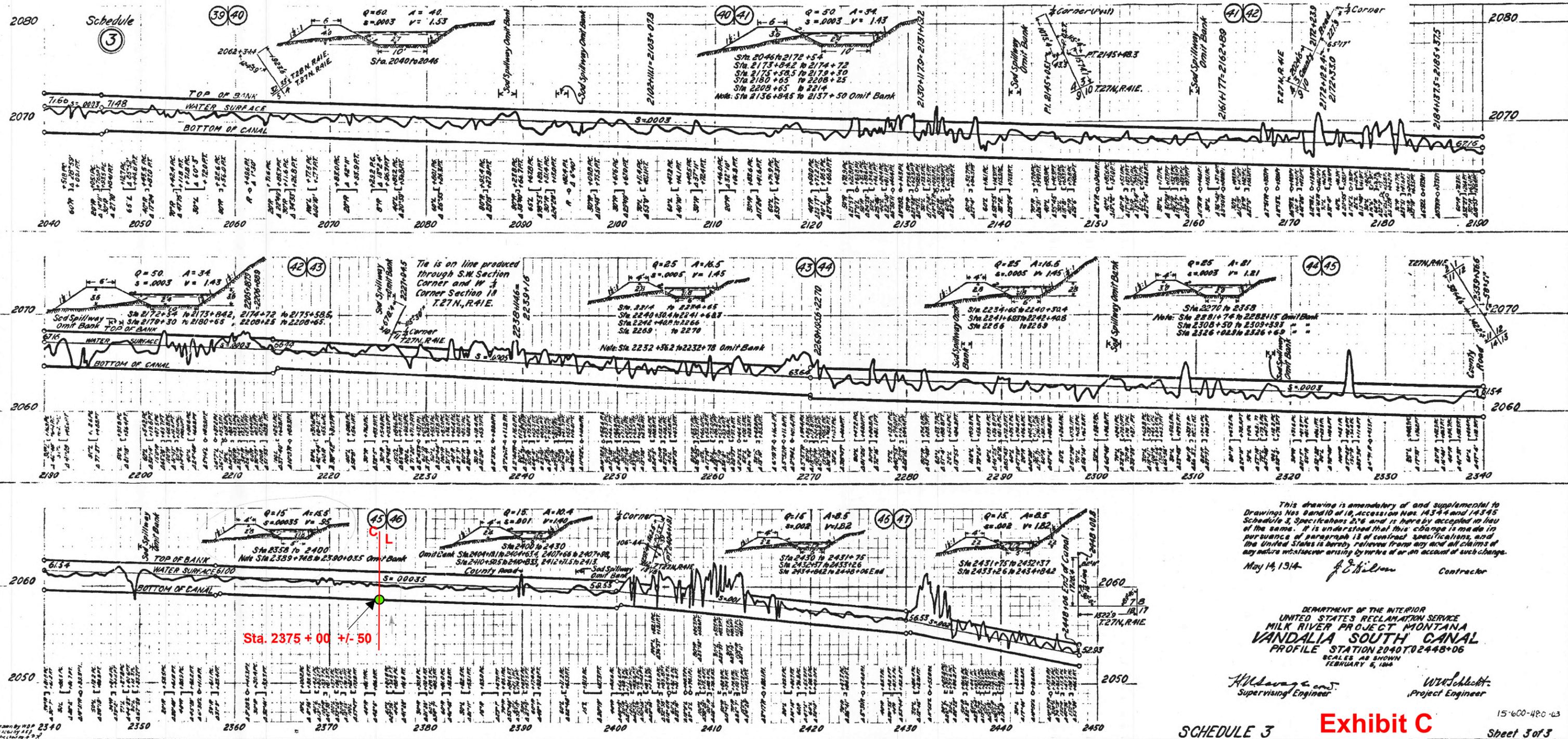
0 0.25 0.5 1 1.5 Miles

Exhibit A

May 13, 2010  
By: Lee Werth

1:24,000

# Profile View - Keystone Pipeline Crossing Vandalia Main Canal



This drawing is amendatory of and supplemental to Drawings Nos. 10 and 10 of 10, Accession Nos. 14344 and 14345 Schedule 3, Specifications 2'6 and is hereby accepted in lieu of the same. It is understood that this change is made in pursuance of paragraph 13 of contract specifications, and the United States is hereby relieved from any and all claims of any nature whatsoever arising by virtue of or on account of such change.  
 May 14, 1914  
 J. H. Sullivan Contractor

DEPARTMENT OF THE INTERIOR  
 UNITED STATES RECLAMATION SERVICE  
 MILK RIVER PROJECT MONTANA  
**VANDALIA SOUTH CANAL**  
 PROFILE STATION 2040 TO 2448+06  
 SCALES AS SHOWN  
 FEBRUARY 6, 1914

H. H. Laverne & Co.  
 Supervising Engineer

W. W. Schmitt  
 Project Engineer

SCHEDULE 3 **Exhibit C** 15-600-480-63 Sheet 3 of 3

Project Engineer May 14, 1914  
 Supervising Engineer February 21, 1914  
**C-464 G-1** S-5152

**Lateral V-235**

## Lateral V-235

### Glasgow Unit, Milk River Project-Montana

W1/2, Section 12, T27N, R41E, Valley County

Lateral V-235 delivers irrigation water from the Vandalia South Canal to farmlands located along the south side of the Milk River. The irrigation season normally runs from mid-April through September 30<sup>th</sup> of each year. Depending on snow-pack and rainfall, the irrigation season can vary in length. Lateral V-235 also has a toe drain system that discharges into Main Drain VW22.

Exhibit A shows the proposed pipeline crossing with respect to the lateral. A plan and profile drawing is not available for the lateral or the toe drain. Keystone XL Pipeline is responsible for verifying actual field conditions.

All rights-of-ways for the Glasgow Unit were obtained using the 1890 Canal Act. Reclamation's easement under the 1890 Canal Act can be described as follows:

The 1890 Canal Act granted to the United States an unrestrained right-of-way for ditches and canal for any lands west of the 100th Meridian that were patented after that date. The easements are reserved in the original land patents issued for these lands and are blanket easements covering the entire tracts patented. The 1890 Act granted authority to place the ditches and canals wherever needed and as a result no legal description of the canal was necessary or required to be recorded. Wherever the canal is located is the defined area of use. This includes any supporting features including but not limited to access roads and areas alongside the canal needed for operation and maintenance of the canal.

Because the U.S. easement is first in time, any following easements granted by the underlying landowner will be subject to the easement rights of the United States and cannot unreasonably interfere with the U.S. project.

#### Construction requirements:

- The pipeline must be installed to ensure the minimum clearances shown on Drawing 40-600-51.
- The canal and canal toe drain system must remain in operation during the irrigation season. If the pipeline crossing is made during the irrigation season, the pipe must be bored under the canal.
- If the pipeline crossing is made during the non-irrigation season, the canal may be open cut. If the canal is open cut, all backfill within the easement boundaries shall be compacted to 95% density in accordance with specifications Section 02302 – Compacting Earth Materials.
- All disturbed areas shall be shaped to facilitate natural drainage and reseeded in accordance with Section 02924 – Seeding and Soil Supplements.
- Pipeline markers and signs shall be installed on both sides of the canal.
- Provide 5 days prior notice work on the Government easement. No work shall be done without the presence of a Government Representative. Contact Mr. Steve Stebbleton,

Field Manager, Glasgow Irrigation District at 406-228-2346 and Mr. Steve Davies,  
Bureau of Reclamation, Montana Area Office at 406-247-7322.

**Main Drain VW22**

## **Main Drain VW22**

### **Glasgow Unit, Milk River Project-Montana**

W1/2, Section 12, T27N, R41E, Valley County

Main Drain VW22 carries surface and subsurface water off of farmlands to the Milk River. Flows occur year round, however they increase during the irrigation season which normally runs from mid-April through September 30<sup>th</sup> of each year. Depending snow-pack and rainfall, the irrigation season can vary in length.

Exhibit A shows the proposed pipeline crossing with respect to the drain. A plan and profile drawing is not available for the drain. Keystone XL Pipeline is responsible for verifying actual field conditions.

All rights-of-ways for the Glasgow Unit were obtained using the 1890 Canal Act. Reclamation's easement under the 1890 Canal Act can be described as follows:

The 1890 Canal Act granted to the United States an unrestrained right-of-way for ditches and canal for any lands west of the 100th Meridian that were patented after that date. The easements are reserved in the original land patents issued for these lands and are blanket easements covering the entire tracts patented. The 1890 Act granted authority to place the ditches and canals wherever needed and as a result no legal description of the canal was necessary or required to be recorded. Wherever the canal is located is the defined area of use. This includes any supporting features including but not limited to access roads and areas alongside the canal needed for operation and maintenance of the canal.

Because the U.S. easement is first in time, any following easements granted by the underlying landowner will be subject to the easement rights of the United States and cannot unreasonably interfere with the U.S. project.

#### **Construction requirements:**

- The pipeline must be installed to ensure the minimum clearances shown on Drawing 40-600-51.
- The drain must remain in operation and the pipe must be bored under the drain.
- All disturbed areas shall be shaped to facilitate natural drainage and reseeded in accordance with Section 02924 – Seeding and Soil Supplements.
- Pipeline markers and signs shall be installed on both sides of the drain.
- Provide 5 days prior notice work on the Government easement. No work shall be done without the presence of a Government Representative. Contact Mr. Steve Stebbleton, Field Manager, Glasgow Irrigation District at 406-228-2346 and Mr. Steve Davies, Montana Area Office at 406-247-7322.

## **Glendive Mail Canal**

## **Glendive Main Canal Buffalo Rapids Project-Montana**

NE1/4, Section 10, T13N, R53E, Dawson County

The Glendive Main Canal delivers irrigation water from the Yellowstone River to farmlands located along the north side of the Yellowstone River. The canal is approximately 34 miles long and has a diversion capacity of 330 cubic feet per second. The irrigation season normally runs from May 1<sup>st</sup> through September 30<sup>th</sup> of each year.

The proposed XL pipeline will cross the canal at approximate Station 309+00±10. Exhibit A shows the proposed pipeline crossing with respect to the canal. Exhibit B shows the plan view and the right of way widths. Exhibit C shows the profile and the typical cross section of the canal in the vicinity of the pipeline crossing.

Below are the original design dimensions of the canal in the vicinity of the proposed pipeline crossing. Actual dimensions may vary from these values. Keystone XL Pipeline is responsible for verifying actual field dimensions.

- Bottom width—12.00 feet
- Side slopes—1.5:1
- Water depth—6.4 feet
- Downhill bank height—9.00 feet
- Easement width—125 feet total (50 feet left of centerline and 75 feet right of centerline)

### Construction requirements:

- The pipeline must be installed to ensure the minimum clearances shown on Drawing 40-600-51.
- The canal must remain in operation during the irrigation season. If the pipeline crossing is made during the irrigation season, the pipe must be bored under the canal.
- If the pipeline crossing is made during the non-irrigation season, the canal may be open cut. If the canal is open cut, all backfill within the easement boundaries shall be compacted to 95% density in accordance with specifications Section 02302 – Compacting Earth Materials.
- All disturbed areas shall be shaped to facilitate natural drainage and reseeded in accordance with Section 02924 – Seeding and Soil Supplements.
- Pipeline markers and signs shall be installed on both sides of the canal.
- Provide 5 days prior notice work on the Government easement. No work shall be done without the presence of a Government Representative. Contact Mr. Larry Heimbuch, Manager, Buffalo Rapids District No. 1 at 406-939-1750 and Mr. Steve Davies, Bureau of Reclamation, Montana Area Office at 406-247-7622.



Approximate  
Keystone Pipeline  
Route

- EXPLANATION**
- CANAL
  - SIPHON
  - PUMPING PLANT
  - SUBSTATION - U.S.B.R.
  - AREA BENEFITED BY PROJECT WORKS
  - PROJECT HEADQUARTERS
  - TRANSMISSION LINE - U.S.B.R.
  - TRANSMISSION LINE - PRIVATE
  - STEAM PLANT - PRIVATE
  - SUBSTATION - PRIVATE

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
CECIL D. ANDRUS, SECRETARY  
BUREAU OF RECLAMATION  
R. KEITH HIGGINSON, COMMISSIONER

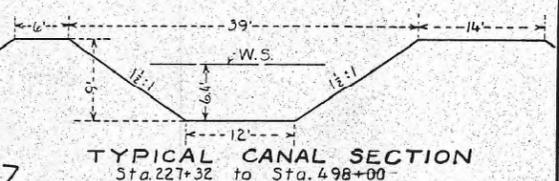
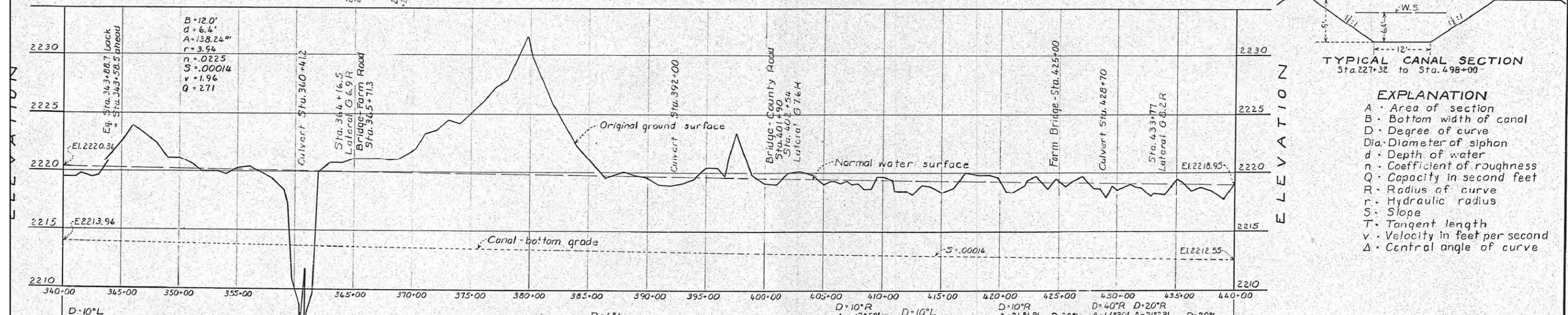
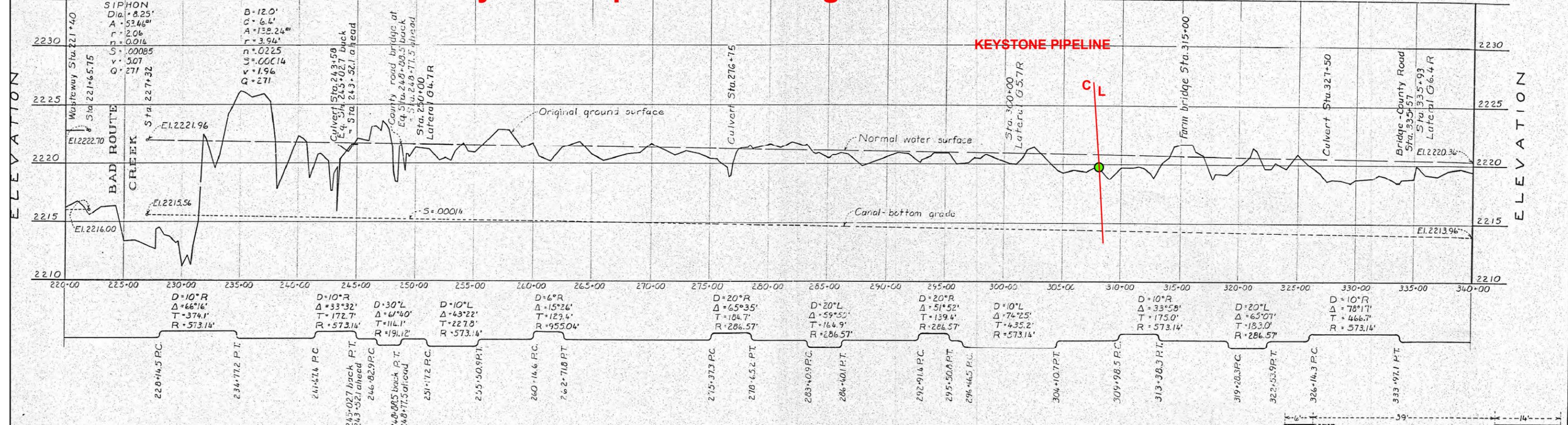
**BUFFALO RAPIDS PROJECT**

MONTANA  
GREAT PLAINS REGION  
MAP NO. 243-600-53

SCALE 0 2 4 6 MILES  
0 2 4 6 KILOMETERS

SEPTEMBER 1977

# Keystone Pipeline Crossing Glendive Main Canal



- EXPLANATION**
- A - Area of section
  - B - Bottom width of canal
  - D - Degree of curve
  - Dia. - Diameter of siphon
  - d - Depth of water
  - n - Coefficient of roughness
  - Q - Capacity in second feet
  - R - Radius of curve
  - r - Hydraulic radius
  - S - Slope
  - T - Tangent length
  - v - Velocity in feet per second
  - Δ - Central angle of curve

DEPARTMENT OF THE INTERIOR  
BUREAU OF RECLAMATION  
BUFFALO RAPIDS PROJECT - MONT.

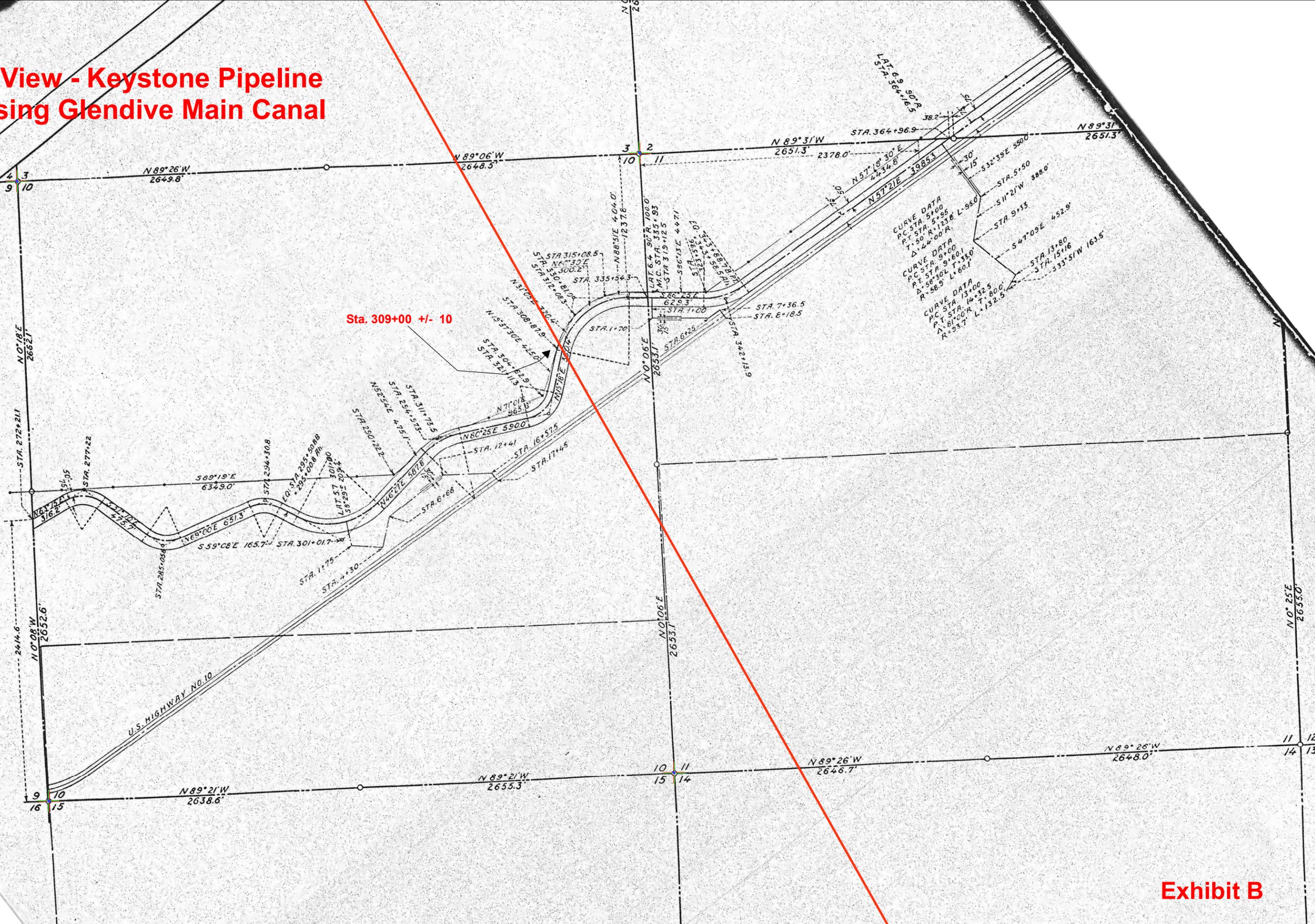
## MAIN CANAL - GLENDIVE UNIT

STA. 220+00 TO STA. 440+00

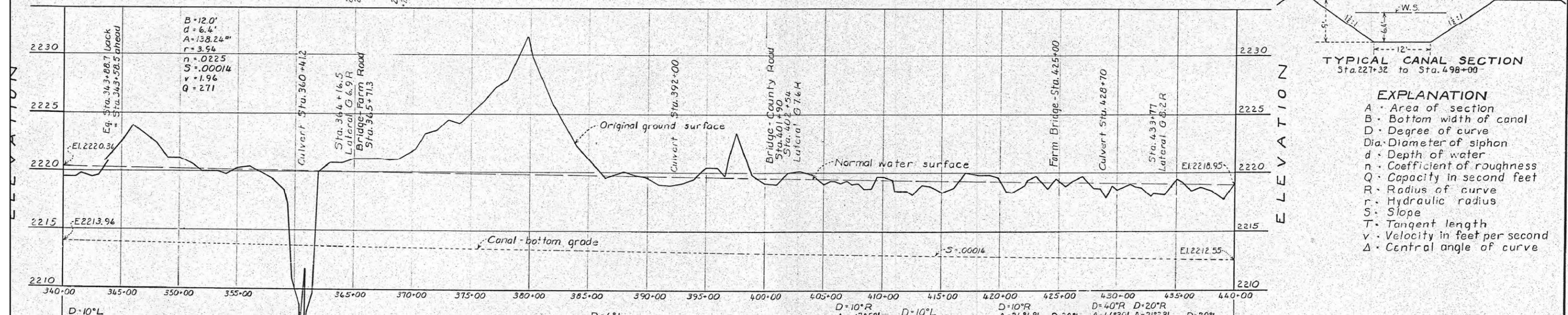
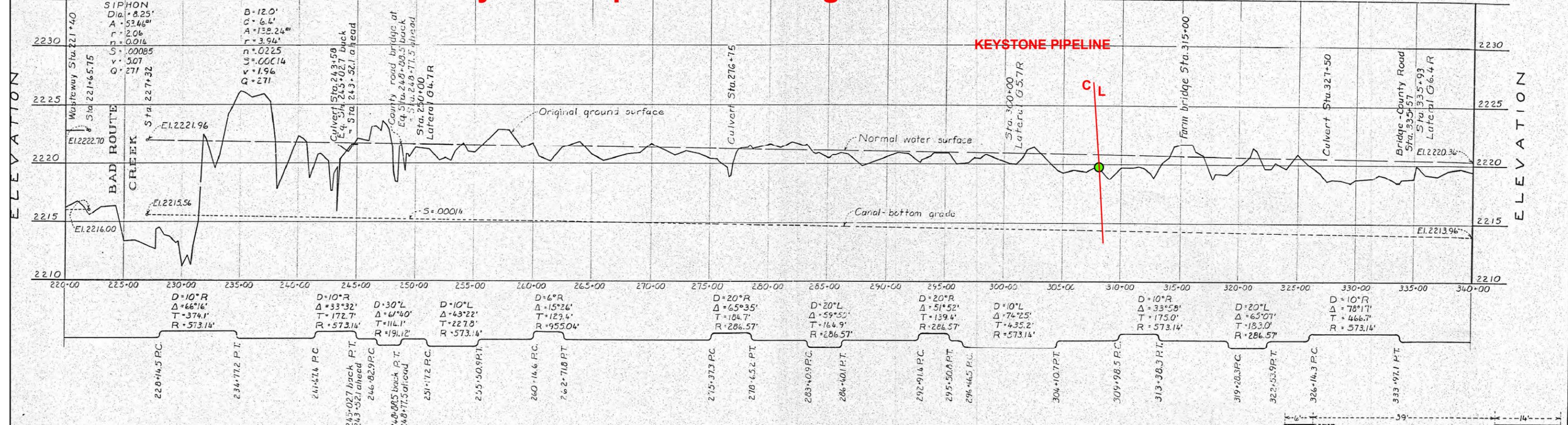
REV. 5-25-38	DRAWN: R.R.R.	SUBMITTED: Paul A. Jones
	TRACED: D.R.B.	RECOMMENDED:
	CHECKED: S.R.B.	APPROVED:

4-A-3      GLENDIVE, MONTANA, MARCH 15, 1938      243-605-140  
SHEET 2 OF 8

# Plan View - Keystone Pipeline Crossing Glendive Main Canal



# Keystone Pipeline Crossing Glendive Main Canal



- EXPLANATION**
- A - Area of section
  - B - Bottom width of canal
  - D - Degree of curve
  - Di. - Diameter of siphon
  - d - Depth of water
  - n - Coefficient of roughness
  - Q - Capacity in second feet
  - R - Radius of curve
  - r - Hydraulic radius
  - S - Slope
  - T - Tangent length
  - v - Velocity in feet per second
  - Δ - Central angle of curve

DEPARTMENT OF THE INTERIOR  
BUREAU OF RECLAMATION  
BUFFALO RAPIDS PROJECT - MONT.

**MAIN CANAL - GLENDIVE UNIT**  
STA. 220+00 TO STA. 440+00

REV. 5-25-38	DRAWN: R.R.R.	SUBMITTED: Paul A. Jones
	TRACED: D.R.B.	RECOMMENDED:
	CHECKED: S.R.B.	APPROVED:
	4-A-3	
	GLENDIVE, MONTANA MARCH 15, 1938	
	SHEET 2 OF 8	
	243-605-140	

## **Lateral 4.7 Pipeline**

## **Lateral 4.7-Pipeline 2, Glendive Unit**

### **Buffalo Rapids Project-Montana**

SE1/4NW1/4, Section 14, T13N, R53E, Dawson County

Lateral 4.7-Pipeline 2 delivers irrigation water from the Glendive Main Canal to farmlands located along the north side of the Yellowstone River. The irrigation season normally runs from May 1<sup>st</sup> through September 30<sup>th</sup> of each year.

The Buffalo Rapids Irrigation District converted the original open lateral into a pipeline. Reclamation currently does not have any engineering data on the existing pipeline. Exhibit A shows the proposed pipeline crossing with respect to the pipeline.

#### Construction requirements:

- XL pipeline must coordinate with Mr. Larry Heimbuch, Manager, Buffalo Rapids District No. 1 at 406-939-1750 to obtain information concerning the Lateral pipeline
- The XL pipeline must be installed to ensure the minimum clearances shown on Drawing 40-600-51.
- The Lateral pipeline must remain in operation during the irrigation season.
- When the XL pipeline crossing is made, the existing Lateral pipeline will be carefully located to prevent damage. The Lateral pipeline shall be supported to prevent damage. All backfill under the pipe and for 10 feet on either side shall be compacted to 95% density in accordance with specifications Section 02302 – Compacting Earth Materials.
- All disturbed areas shall be shaped to facilitate natural drainage and reseeded in accordance with Section 02924 – Seeding and Soil Supplements.
- Pipeline markers and signs shall be installed on both sides of the Lateral pipeline or as directed by Mr. Larry Heimbuch, Manager, Buffalo Rapids District No. 1.
- Provide 5 days prior notice work on the Government easement. No work shall be done without the presence of a Government Representative. Contact Mr. Larry Heimbuch, Manager, Buffalo Rapids District No. 1 at 406-939-1750 and Mr. Steve Davies, Bureau of Reclamation, Montana Area Office at 406-247-7622.

## **Glendive Open Drain**

## **Glendive Open Drain**

### **Buffalo Rapids Project-Montana**

SE1/4NW1/4, Section 14, T13N, R53E, Dawson County

Glendive Open Drain carries surface and subsurface water off of farmlands to the Yellowstone River. Flows occur year round, however they increase during the irrigation season which normally runs from May 1st through September 30<sup>th</sup> of each year.

Exhibit A shows the proposed pipeline crossing with respect to the drain. A plan and profile drawing is not available for the drain. Keystone XL Pipeline is responsible for verifying actual field conditions.

#### **Construction requirements:**

- The pipeline must be installed to ensure the minimum clearances shown on Drawing 40-600-51.
- The drain must remain in operation and the pipe must be bored under the drain.
- All disturbed areas shall be shaped to facilitate natural drainage and reseeded in accordance with Section 02924 – Seeding and Soil Supplements.
- Pipeline markers and signs shall be installed on both sides of the drain.
- Provide 5 days prior notice work on the Government easement. No work shall be done without the presence of a Government Representative.
- Contact Mr. Larry Heimbuch, Manager, Buffalo Rapids District No. 1 at 406-939-1750 and Mr. Steve Davies, Bureau of Reclamation, Montana Area Office at 406-247-7622.

## **Fullerton Canal**

## Fullerton Canal

### North Loup Division, Pick-Sloan Missouri Basin Program-Nebraska

NE1/4 of the SE1/4, Section 28, T16N, R7W, Nance County

The Fullerton Canal delivers irrigation water from Davis Creek Dam to farmlands located along the North Loup and Loup Rivers. The canal is approximately 49 miles long and has a diversion capacity of 440 cubic feet per second. The irrigation season normally runs from May 1<sup>st</sup> through September 30<sup>th</sup> of each year. Depending on the year, the irrigation season can be run from April 1<sup>st</sup> through November 15<sup>th</sup>.

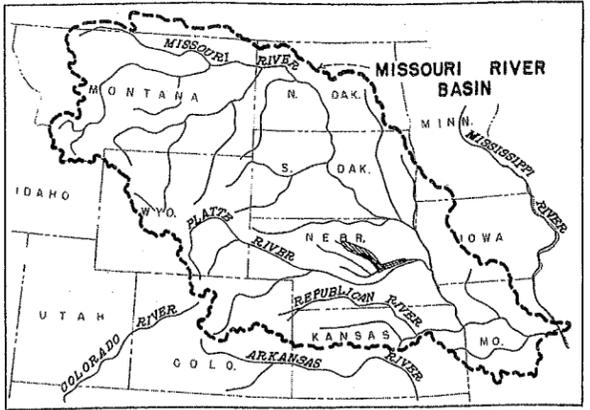
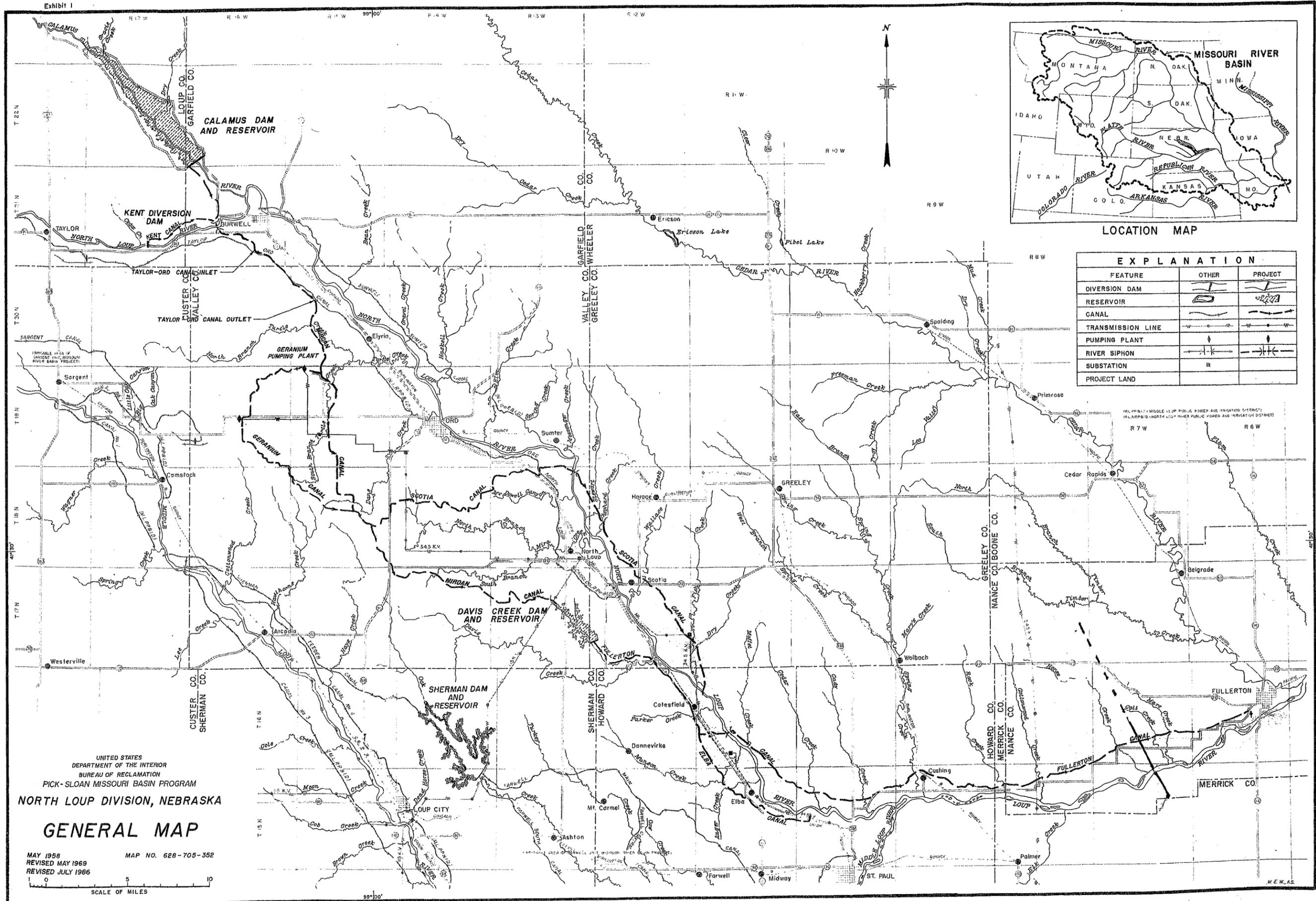
The proposed XL pipeline will cross the canal at approximate Station 2291+00±30. Exhibit A shows the proposed pipeline crossing with respect to the canal. Exhibit B shows the plan view and the right of way widths. Exhibit C shows the profile of the canal in the vicinity of the pipeline crossing. Exhibit D shows the typical cross section of the canal.

The following are the dimensions of the canal in the vicinity of the proposed pipeline crossing:

- Bottom width—10.00 feet
- Side slopes—1.5:1
- Water depth—3.10 feet
- Downhill bank height—5.00 feet
- Easement width—125 feet total (75 feet left of centerline and 50 feet right of centerline)

#### Construction requirements:

- The pipeline must be installed to ensure the minimum clearances shown on Drawing 40-600-51.
- The canal must remain in operation during the irrigation season. If the pipeline crossing is made during the irrigation season, the pipe must be bored under the canal.
- If the pipeline crossing is made during the non-irrigation season, the canal may be open cut. If the canal is open cut, all backfill within the easement boundaries shall be compacted to 95% density in accordance with specifications Section 02302 – Compacting Earth Materials.
- All disturbed areas shall be shaped to facilitate natural drainage and reseeded.
- Pipeline markers and signs shall be installed on both sides of the canal.
- Provide 5 days prior notice work on the Government easement. No work shall be done without the presence of a Government Representative. Contact Mr. Terry Seitz, McCook Field Office at 308-345-6470.



LOCATION MAP

EXPLANATION		
FEATURE	OTHER	PROJECT
DIVERSION DAM		
RESERVOIR		
CANAL		
TRANSMISSION LINE		
PUMPING PLANT		
RIVER SIPHON		
SUBSTATION		
PROJECT LAND		

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF RECLAMATION  
PICK-SLOAN MISSOURI BASIN PROGRAM  
NORTH LOUP DIVISION, NEBRASKA  
**GENERAL MAP**

MAY 1958  
REVISED MAY 1969  
REVISED JULY 1986  
MAP NO. 628-705-352  
SCALE OF MILES  
0 5 10

# Keystone XL Pipeline



- Keystone XL Pipeline
- Fullerton Canal Crossing
- Reclamation Facilities



May 13, 2010  
By: Lee Werth

**Exhibit A**

1:23,999



**Plan View - Keystone Pipeline  
Crossing Fullerton Main Canal**

HORN, et ux

R - 104.17  
E = 4.82  
NO 307

POT 2294+98  
DRAIN

CTR BUILDING  
70 17

POT 2298+38  
FENCE COR  
130' RT

POT 2298 + 72 38  
SECTION LINE  
TIE = AZ 369°14'49"  
519 28'

F-435 D-LT  
DIVERT DRAIN  
1628-D-15581

C L

**Sta. 2291+00 +/- 30**

O B M ACCESS ROAD  
(628-D-1606)

POT 2292+12  
FENCE COR  
30' RT

POT 2292+50  
FENCE COR  
398 11

POT 2297+40  
FENCE COR  
80' RT

POT 2297+60  
FENCE COR  
48 LT

POT 2298+18  
FENCE COR  
106 11

POT 2298+32  
FENCE COR / 150 LT  
FENCE COR / 132 RT

NO 306  
PI 2288+1601  
N 608 231 30  
E 2 379 054 65  
PL 2287+6600  
PT 2288+6447  
Δ = 24°37'02" LT  
D = 25°00'00"  
T = 50 01  
L = 98 47

DAN E HORN, et ux

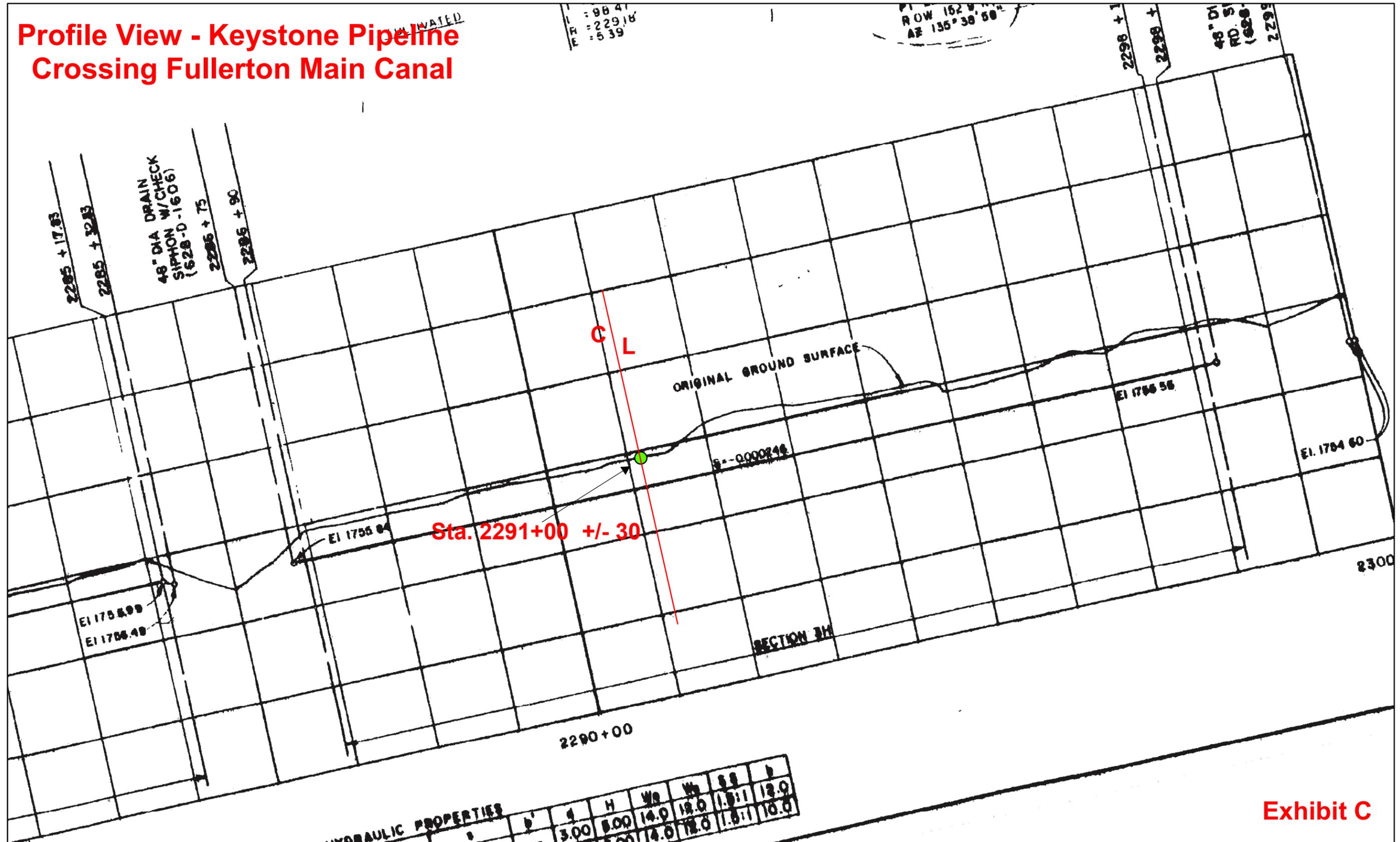
NO 308  
PI 2297+6078  
N 608 436 36  
E 2 379 918 00  
PL 2297+4018  
PT 2297+8086  
Δ = 22°22'20" LT  
D = 55°00'00"  
T = 20 60  
L = 40 68  
E = 104 17  
E = 2 02

CULTIVATED

**Exhibit B**

CULTIVATED

# Profile View - Keystone Pipeline Crossing Fullerton Main Canal



I = 98.41  
 R = 2291.6  
 E = 5.39

ROW 162.0'  
 AZ 135° 38' 58"

2296 + 1  
 2298 +  
 48" DIA  
 RD. 51  
 (928)  
 2299

48" DIA DRAIN  
 SIPHON W/CHECK  
 (628-D-1606)  
 2295 + 75  
 2295 + 90

2285 + 17.63  
 2285 + 32.13

C L

ORIGINAL GROUND SURFACE

S = -0.000246

Sta. 2291+00 +/- 30

EI 1756.84

EI 1756.56

EI 1754.60

EI 1758.99  
 EI 1756.48

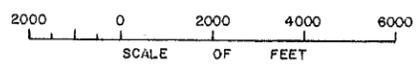
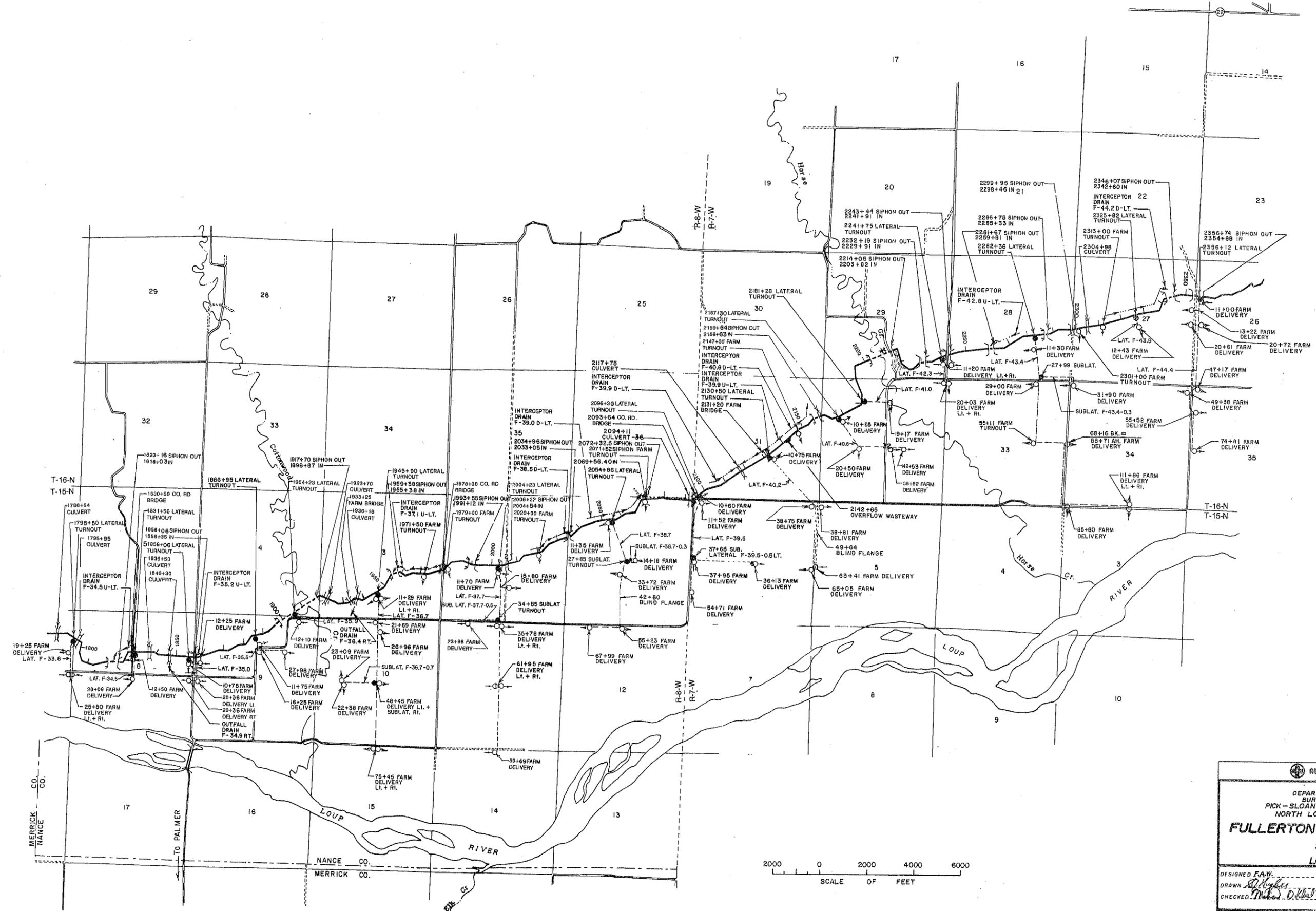
SECTION 3M

2290+00

HYDRAULIC PROPERTIES

b'	d	H	W <sub>R</sub>	W <sub>B</sub>	SS	b
3.00	5.00	14.0	12.0	1.51	12.0	
		14.0	12.0	1.51	10.0	

Exhibit C



**ALWAYS THINK SAFETY**

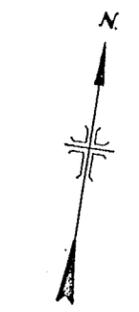
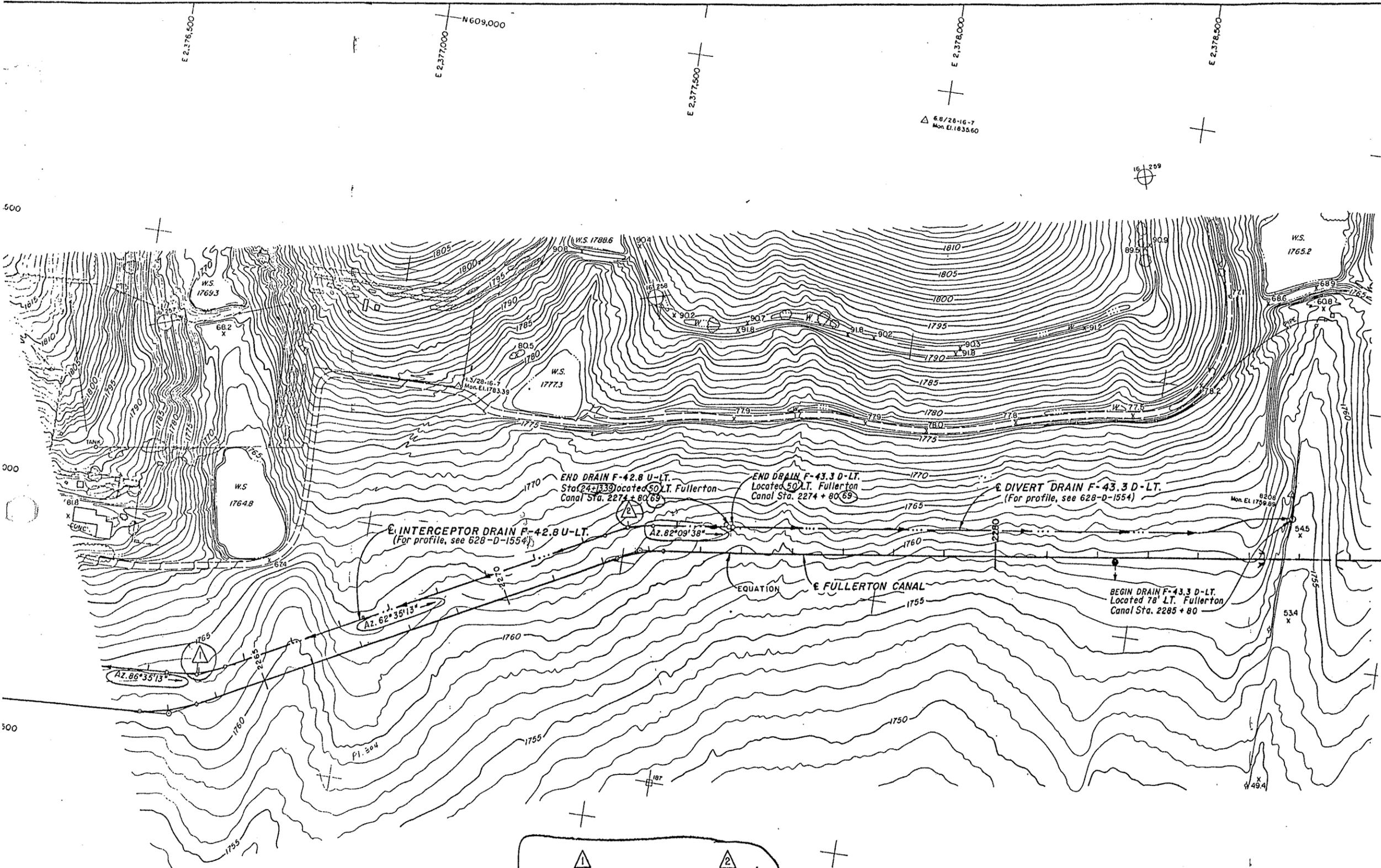
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF RECLAMATION  
PICK-SLOAN MISSOURI BASIN PROGRAM  
NORTH LOUP DIVISION - NEBRASKA

**FULLERTON CANAL & LATERALS**  
SECTION 2 & 3  
LOCATION MAP

DESIGNED BY: [Signature] SUBMITTED: [Signature]  
DRAWN BY: [Signature] RECOMMENDED BY: [Signature]  
CHECKED BY: [Signature] APPROVED BY: [Signature]

ACTING ASST. COMM. ENGINEERING AND RESEARCH

GRAND ISLAND, NEBRASKA DECEMBER 5, 1988  
SHEET 3 OF 4 **628-705-2953**



SEC. 28-T16N,R7W

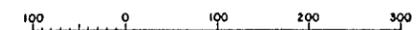
SHEET INDEX

The data shown on this map sheet has been checked and found to be correct. Final map prepared at 1" = 100'. Date of Certification December 15, 1984



*M.E. Erfle*  
M.E. ERFLE, P.E. (#7034)  
Engineer in responsible charge.

NEBRASKA STATE PLANE COORDINATES SOUTH ZONE



SCALE OF FEET  
USC & G.S. Datum

Delta Aerial Surveys, Inc.  
2345 SOUTH FEDERAL BLVD., SUITE 106  
DENVER, COLORADO 80219 (303) 834-8000

<p>▲</p> <p>P.I. 12+95.00 P.C. 12+37.01 P.T. 13+51.29 Δ = 24°00'00" LT. D = 20°59'59.18" T = 57.99' L = 114.29' R = 272.84'</p>	<p>▲</p> <p>P.I. 21+92.67 P.C. 21+45.60 P.T. 22+38.81 Δ = 19°34'25" RT. D = 20°59'59.18" T = 47.06' L = 93.21' R = 272.84'</p>
---	--

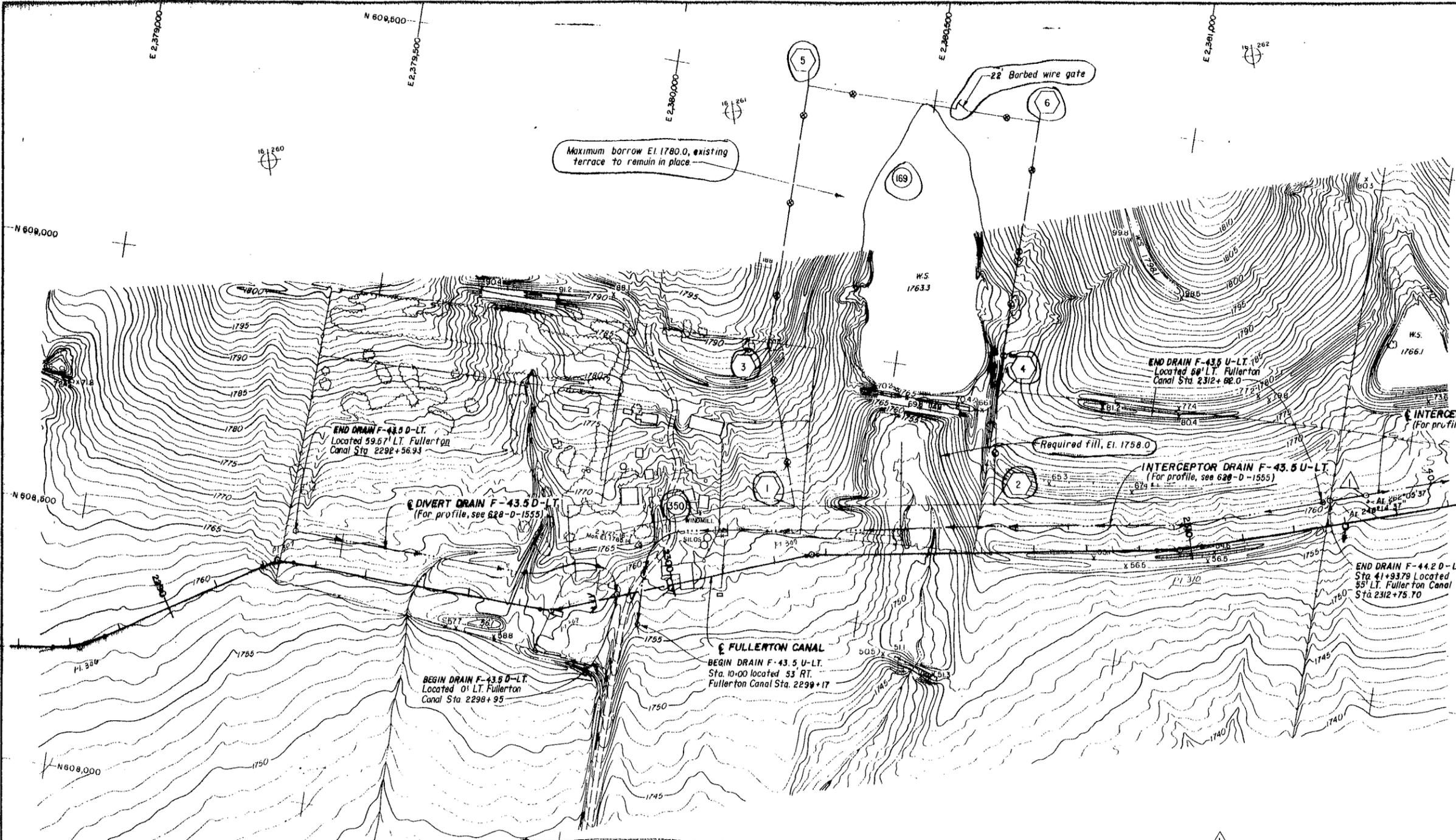
8-31-91	REVISED END STATION AND OFFSET ON INTERCEPTOR DRAIN F-42.8 U-LT. AND DIVERT DRAIN F-43.3 D-LT. ADDED CURVE DATA.
6-12-91	ADDED SIGNATURES, CHANGED DIVERT DRAIN F-42.8 U-LT. TO INTERCEPTOR DRAIN F-42.8 U-LT.
4-22-91	REALIGNED CANAL.

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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF RECLAMATION  
PICK-SLOAN MISSOURI BASIN PROGRAM  
NORTH LOUP DIVISION-NEBRASKA

**FULLERTON CANAL-SECTIONS 2 AND 3**  
STRIP TOPOGRAPHY  
STA. 2262+00 TO 2287+00

DESIGNED *Robert D. Hoff* FIELD APPROVAL *Robert D. Hoff*  
DRAWN *M.R.S. - G.L.S.* TECHNICAL APPROVAL *G.L.S.*  
CHECKED *MDL* APPROVED *M.R. Poca*  
CHIEF, WATER CONVEYANCE BRANCH  
GRAND ISLAND, NEB. DEC. 20, 1980  
SHEET 67 OF 69 SHEETS 628-705-2862



SEC. 27,28-T16N,R7W

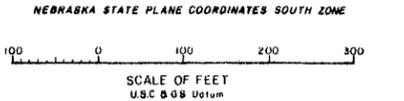
SHEET INDEX

- (350) Temporary easement (Access)
- (169) Temporary easement (Borrow Area)

The data shown on this map sheet has been checked and found to be correct.  
 Final map prepared at 1" = 100'  
 Date of Certification December 10, 1984



*ME ERLE RE*  
 ME ERLE RE (#7034)  
 Engineer in responsible charge.



Delta Aerial Surveys, Inc.  
 2846 SOUTH FEDERAL BLVD., SUITE 100  
 DENVER, COLORADO 80219 (303) 931-8400

1 PI 2302 + 72.09 ROW. 99.6 LT. AZ. 333°21'22"	2 PI 2302 + 72.09 ROW. 365.5 LT. AZ. 65°42'44"	3 PI 2302 + 72.09 ROW. 397.1 LT. AZ. 337°51'19"
4 PI 2302 + 72.09 ROW. 463.2 LT. AZ. 40°24'50"	5 PI 2302 + 72.09 ROW. 890.4 LT. AZ. 350°19'19"	6 PI 2302 + 72.09 ROW. 927.7 LT. AZ. 18°53'21"

PI 41+24.12  
 Δ = 03°50'59" LT.  
 No Curve

1-31-82	ADDED EASEMENTS 169 AND 350 ADDED MAXIMUM BORROW ELEVATION AND REQUIRED FILL ELEVATION.
8-31-81	REVISED END OFFSETS ON DIVERT DRAIN F-43.5 D-LT. AND INTERCEPTOR DRAINS F-43.5 U-LT. AND F-44.2 D-LT.
5-12-81	ADDED SIGNATURES, CHANGED DIVERT DRAIN F-43.5 U-LT. TO INTERCEPTOR DRAIN F-43.5 U-LT.

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 BUREAU OF RECLAMATION  
 PICK-SLOAN MISSOURI BASIN PROGRAM  
 NORTH LOUP DIVISION-NEBRASKA  
**FULLERTON CANAL-SECTIONS 2 AND 3**  
 STRIP TOPOGRAPHY  
 STA. 2287+00 TO 2315+00

DESIGNED: *[Signature]* FIELD APPROVAL: *[Signature]*  
 DRAWN: M.R.E.-G.L.T. TECHNICAL APPROVAL: *[Signature]*  
 CHECKED: *[Signature]* APPROVED: *[Signature]*  
 CHIEF, WATER CONVEYANCE BRANCH

BRAND ISLAND, NEB. DEC. 20, 1980  
 SHEET 63 OF 62 SHEETS **628-705-2863**

E 2,377,500

N 608,500

STA 2275+00  
MATCH LINE

DIVERT DRAIN F-43.3 D-LT  
(628-D-1504)

POT 2282 + 35.88  
L.T.O. F-43.4 RT.

FULLERTON CANAL  
DAN E. HORN, et ux.

PI 2292 + 26.81  
N 608,452.56  
E 2,379,382.44  
PC 2291 + 94.77  
PT 2292 + 56.93  
Δ: 34°11'21" H  
D: 55°01'00"  
T: 32.04  
L: 62.16  
R: 104.17  
E: 4.82  
HQ 307

ROT. 2296 + 00  
BEGIN MURAL  
SAFETY FENCE  
90' LT.

UNCULTIVATED  
N 609,000

POT 2298 + 72.30  
SECTION LINE  
TIE: AZ 368°14'49"  
519.26'

PI 2302 + 72.09  
R.O.W. 357.08' LT.  
AZ 278°38'28"

POT 2299 + 17  
CORNHUSKER PUBLIC  
POWER DISTRICT  
2 WIRE LINE POLES 92' LT. & 248' RT.  
CLEARANCE 23.9'  
TO BE RELOCATED  
BY OWNER

INTERCEPTOR DRAIN F-43.5 U-LT  
(628-D-1556)

NOTES

FOR NOTES, SEE DWG. NO. 628-705-2870.  
O & M ROAD ON RIGHT SIDE.  
BUILDINGS WITHIN THE RIGHT-OF-WAY TO BE CLEARED  
SUBJECT TO REMOVAL BY OWNER.

E 2,377,500  
N 607,800

MATCH LINE

CULTIVATED

CULTIVATED

DAN E. HORN, et ux.

CULTIVATED

NO. 306  
PI 2288 + 16.01  
N 608,231.30  
E 2,379,354.66  
PC 2287 + 66.00  
PT 2288 + 64.47  
Δ: 24°37'02" LT  
D: 28°00'00"  
T: 50.01  
L: 98.47  
R: 229.18  
E: 6.39'

POL 2292 + 150  
FENCE COR  
398 LT

POL 2292 + 26  
FENCE

NO. 308  
PI 2297 + 60.78  
N 608,436.36  
E 2,379,918.00  
PC 2297 + 40.18  
PT 2297 + 80.86  
Δ: 22°22'20" LT  
D: 65°00'00"  
T: 20.80  
L: 40.68  
R: 104.17  
E: 2.02'

POT 2297 + 40  
FENCE COR  
80 RT

POT 2297 + 196  
FENCE COR  
48 LT

POT 2298 + 118  
FENCE COR  
106 LT

POT 2298 + 32  
FENCE COR  
190 RT

POT 2299 + 94  
POLE  
165 LT

POT 2299 + 83  
FENCE COR  
86 LT

POT 2299 + 54  
CTR. BUILDING  
180 LT

POT 2299 + 50  
POLE  
86 LT

2282 + 35.88  
L.T.O. F-43.4 RT.  
(628-D-1718)

2285 + 17.85  
2285 + 32.85

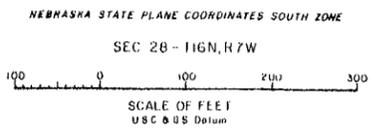
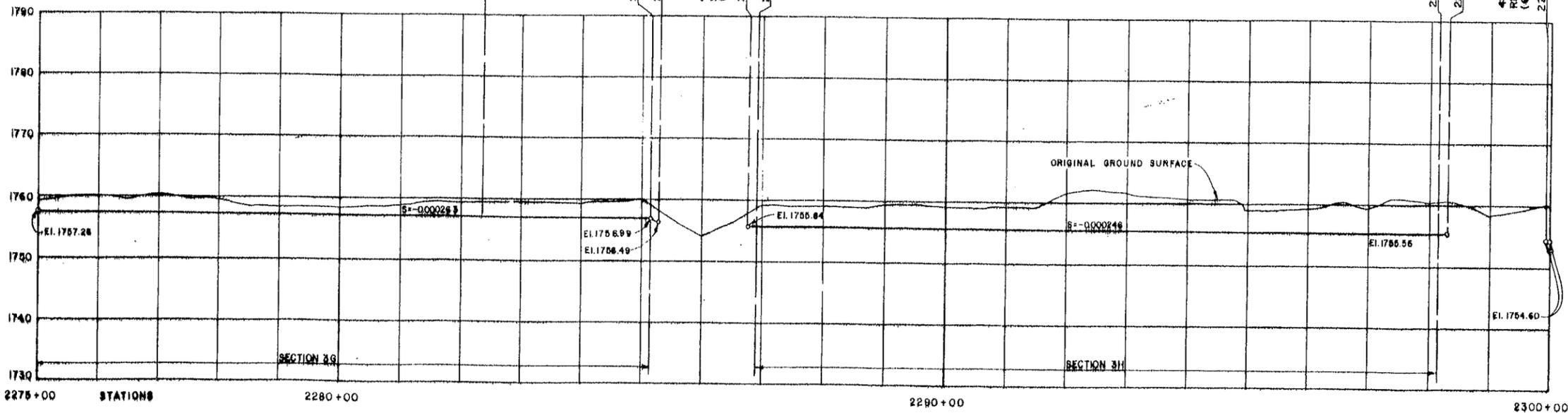
48" DIA. DRAIN  
SIPHON W/CHECK  
(628-D-1606)

2286 + 75  
2286 + 90

2298 + 17  
2298 + 32

48" DIA. FARM  
RD. SIPHON  
(628-D-1607)

2299 + 95

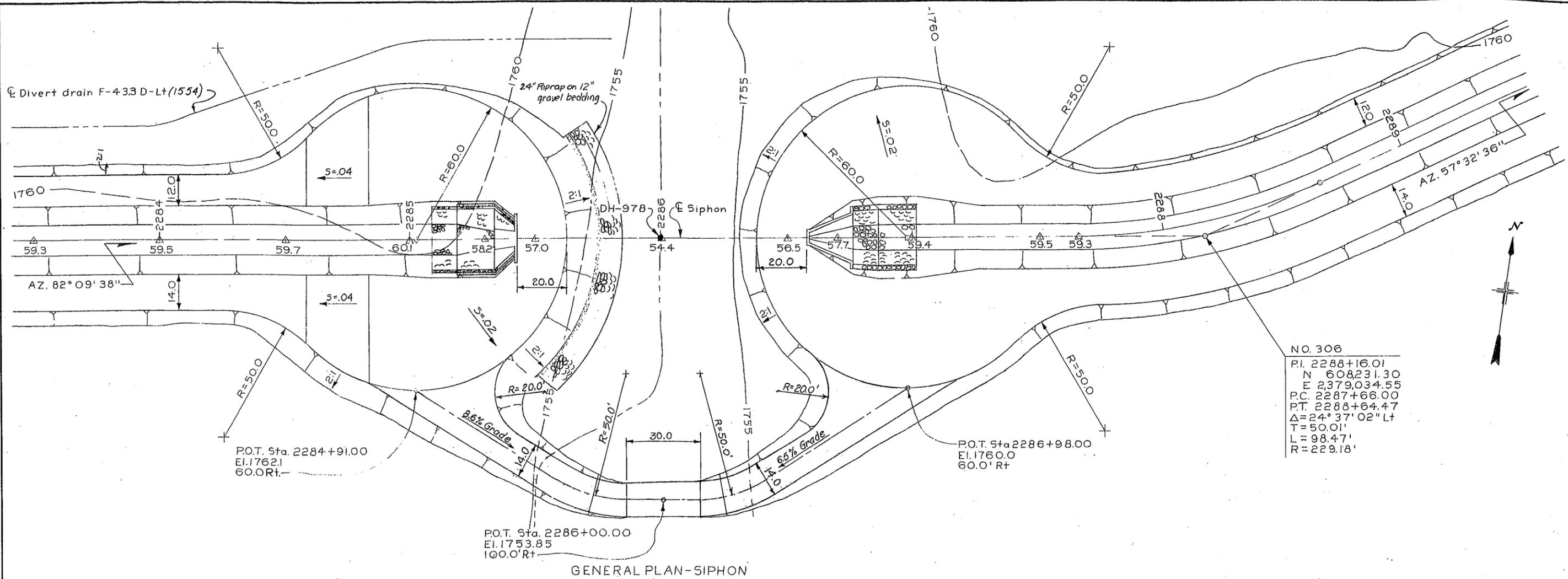


Delta Aerial Surveys, Inc.  
234 SOUTH FEDERAL BLVD., SUITE 100  
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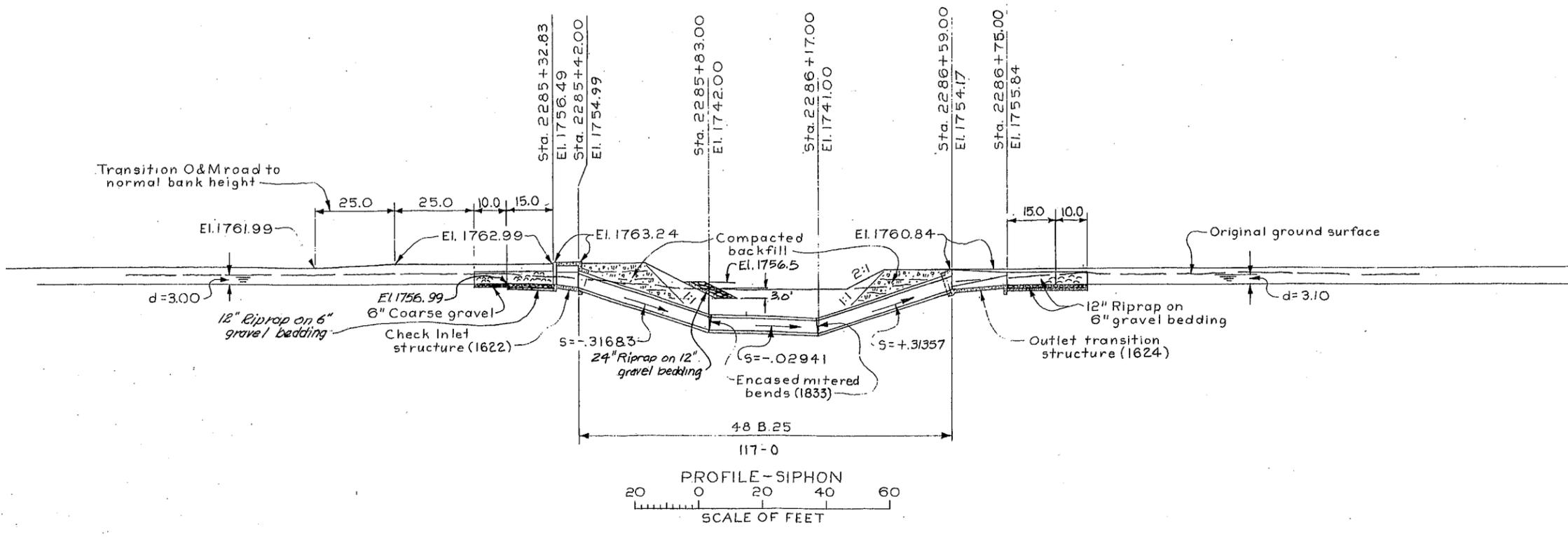
BLINN THINK SAFETY  
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF RECLAMATION  
PICK-SLOAN MISSOURI BASIN PROGRAM  
NORTH LOUP DIVISION-NEBRASKA  
FULLERTON CANAL - SECTION 3  
PLAN AND PROFILE  
STA. 2275+00 to 2300+00  
DESIGNED: [Signature] FIELD APPROVAL: [Signature]  
DRAWN: M.A.S. TECHNICAL APPROVAL: [Signature]  
CHECKED: [Signature] APPROVED: [Signature]  
GRAND ISLAND, NEB.  
SHEET 82 OF 12 SHEETS  
628-705-2934

HYDRAULIC PROPERTIES

SECTION	A	V	Q	r	n	s	b'	q	H	W <sub>0</sub>	W <sub>0.50</sub>	b
3G	49.50	1.62	90	2.17	.025	0.000263	-	3.00	5.00	14.0	12.0	12.0
3H	48.42	1.54	70	2.14	.025	0.000243	-	3.10	5.00	14.0	12.0	10.0



NO. 306  
 P.I. 2288+16.01  
 N 608231.30  
 E 2379.034.55  
 P.C. 2287+66.00  
 P.T. 2288+64.47  
 $\Delta = 24^\circ 37' 02''$  Lt  
 T = 50.01'  
 L = 98.47'  
 R = 229.18'



NOTES  
 For general notes, see 628-D-1512.  
 Design flow of siphon is 70 cfs  
 For details of safety cable and safety fence see 628-D-1731.

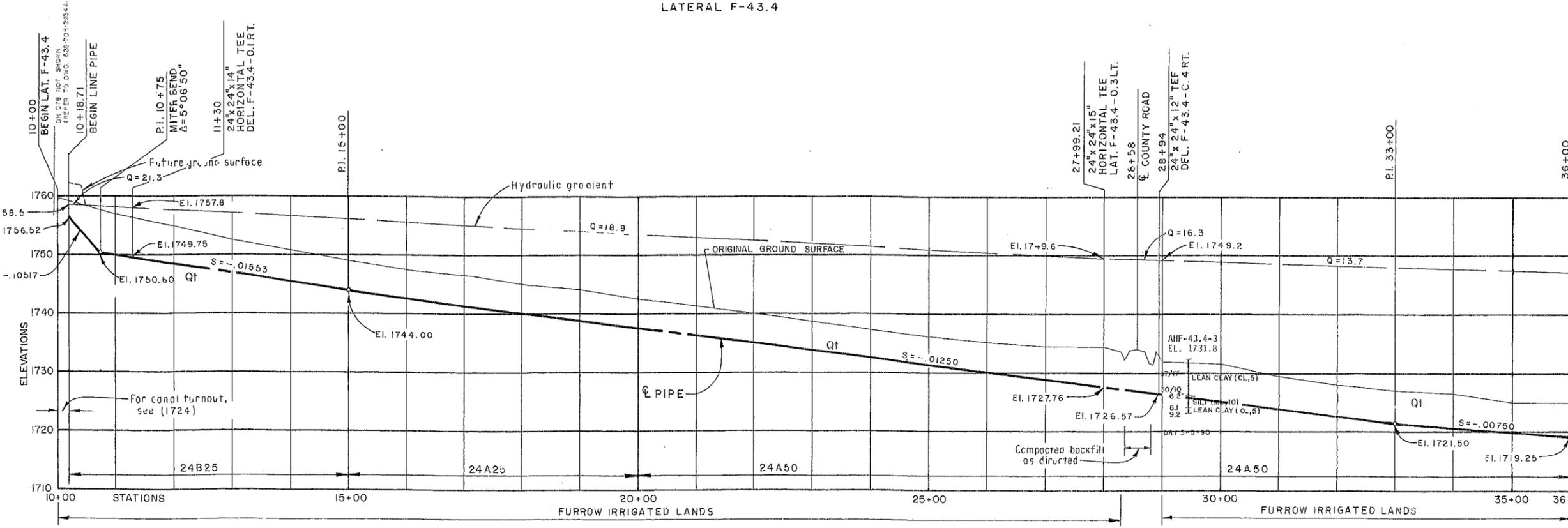
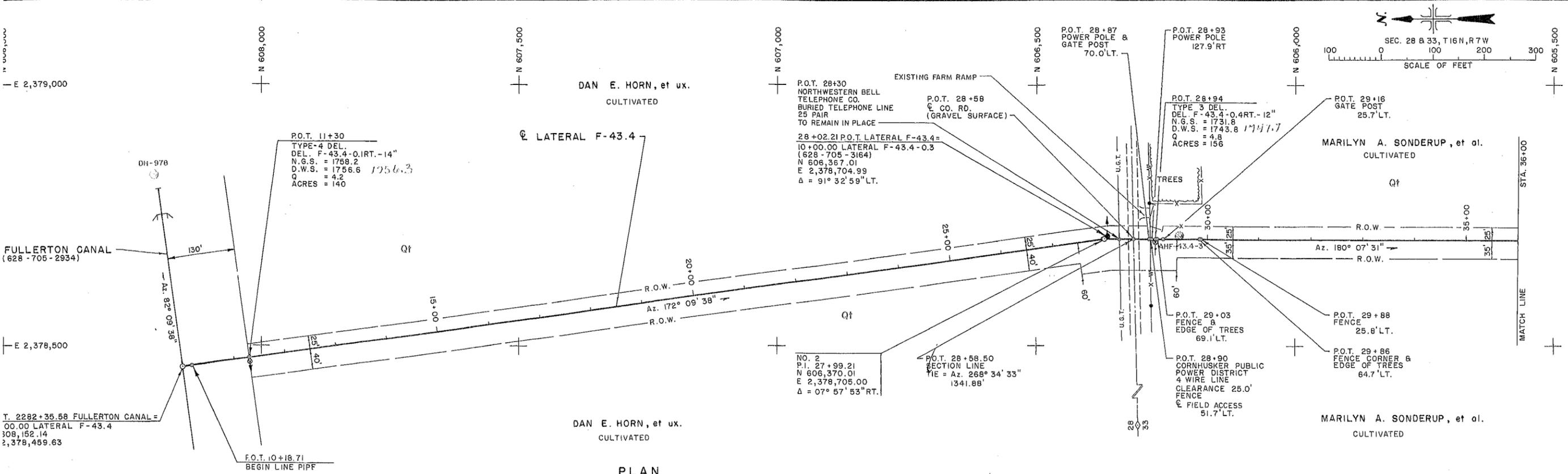
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UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 BUREAU OF RECLAMATION  
 PICK-SLOAN MISSOURI BASIN PROGRAM  
 NORTH LOUP DIVISION-NEBRASKA  
 FULLERTON CANAL-SECTIONS 2 AND 3  
 STA. 2285+32.83  
 48" DIA. SIPHON  
 GENERAL PLAN AND PROFILE

DESIGNED *M. D. [Signature]* TECHNICAL APPROVAL *[Signature]*  
 DRAWN *M. R. [Signature]* SUBMITTED *[Signature]*  
 CHECKED *[Signature]* APPROVED *[Signature]*  
 CHIEF WATER CONVEYANCE BRANCH

DENVER, COLORADO AUGUST 13, 1990

628-D-1606



**GEOLOGIC NOTE**  
 For General Geologic Legend, Explanation and Notes, see Dwg. No. 628-705-2621A

NOTES  
 FOR GENERAL NOTES AND AN EXPLANATION OF THE PLAN AND PROFILE SYMBOLS, SEE DWG. NO. 628-705-3001.

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 PICK-SLOAN MISSOURI BASIN PROGRAM  
 NORTH LOUP DIVISION - NEBRASKA

**FULLERTON SECTION 3 PIPE LATERALS**  
 LATERAL F-43.4 STA. 10+00 TO 36+00

**PLAN AND PROFILE**

DESIGNED: L.M. SAS FIELD APPROVAL: [Signature]  
 DRAWN: P.S.L. [Signature] TECHNICAL APPROVAL: R.R. [Signature]  
 CHECKED: P.S.L. [Signature] APPROVED: [Signature]  
 CHIEF, WATER CONVEYANCE BRANCH

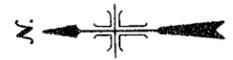
GRAND ISLAND, NEBRASKA OCTOBER 4, 1985  
 SHEET 1 OF 5

TECHNICAL APPROVAL: [Signature]  
 SUBMITTED: [Signature]  
 APPROVED: [Signature]  
 Chief, Geology Branch

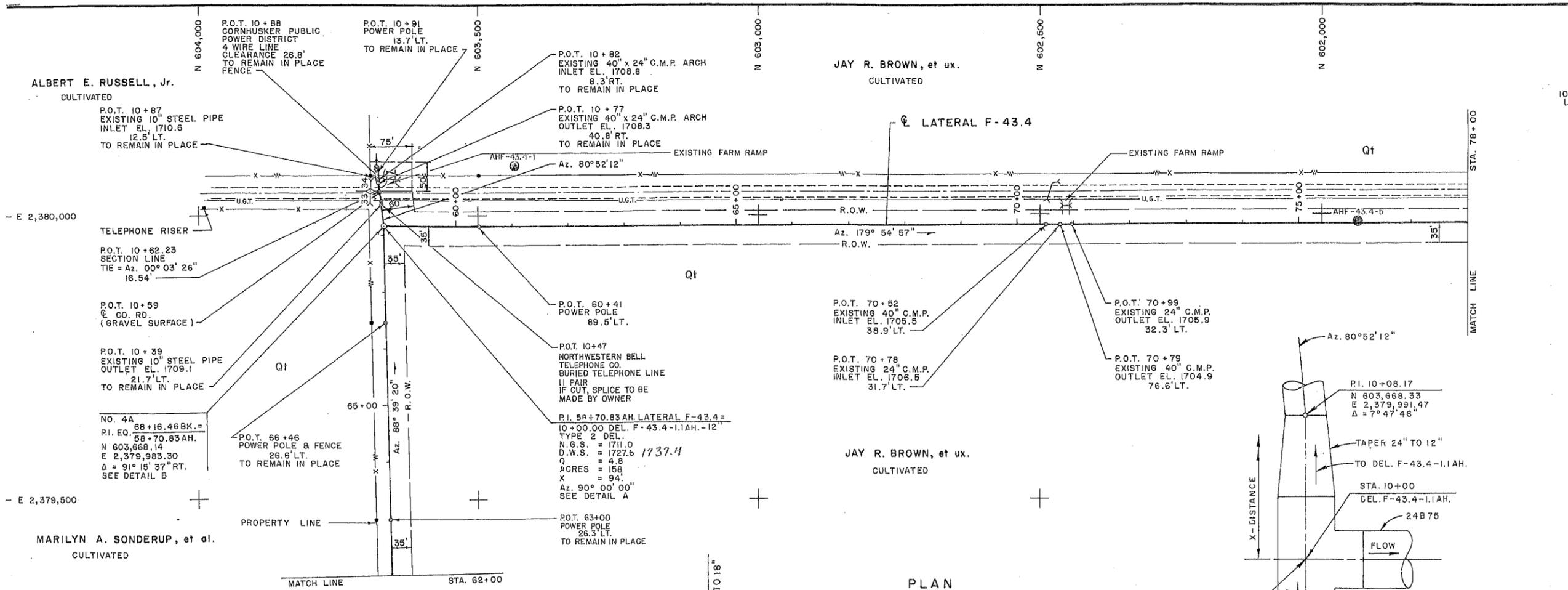
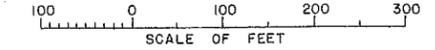
TECH APPROVAL: [Signature]  
 SUBMITTED: [Signature]  
 APPROVED: [Signature]

628-705-3160A

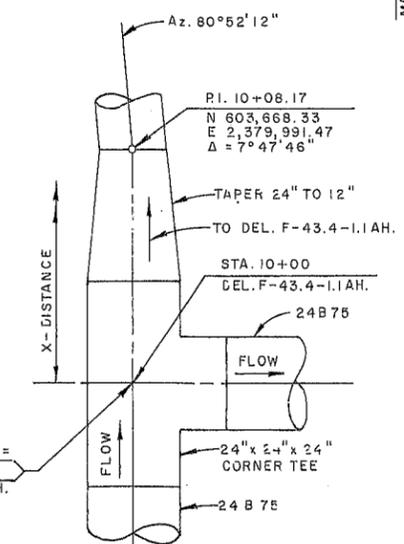




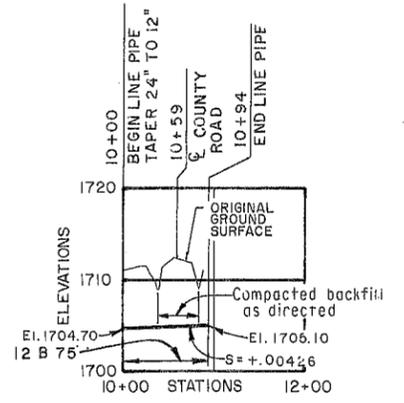
SEC. 33 & 34, T16N, R7W



PLAN LATERAL F-43.4



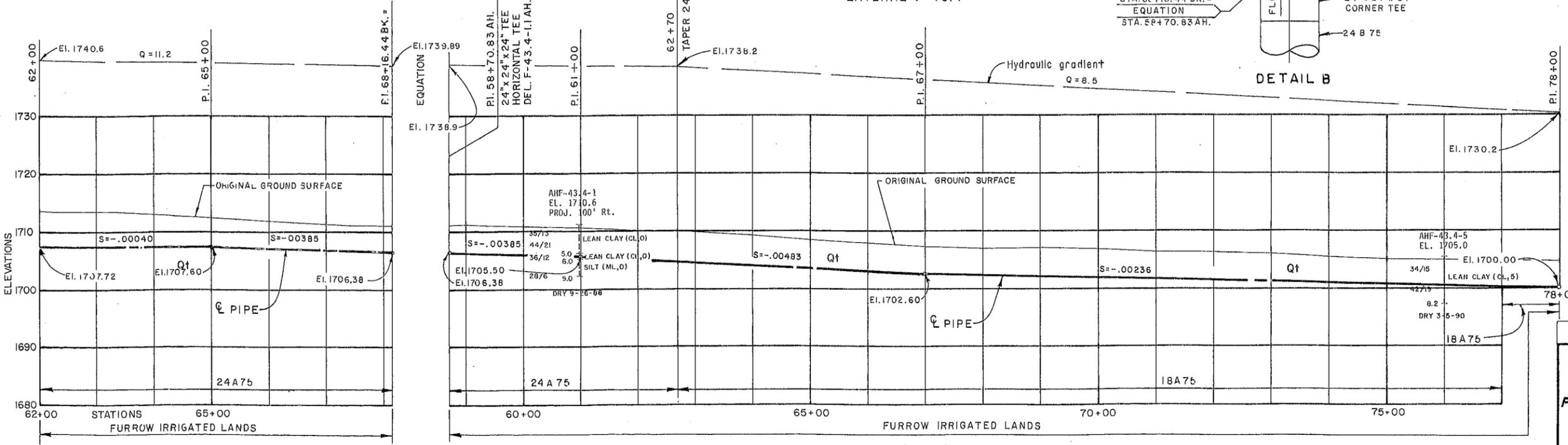
DETAIL B



DEL. F-43.4-1.1AH. DETAIL A GEOLOGIC NOTE

For General Legend, Explanation and Notes, see Dwg. No. 628-705-2621A.

NOTES FOR GENERAL NOTES AND AN EXPLANATION OF THE PLAN AND PROFILE SYMBOLS, SEE DWG. NO. 628-705-3001.



PROFILE

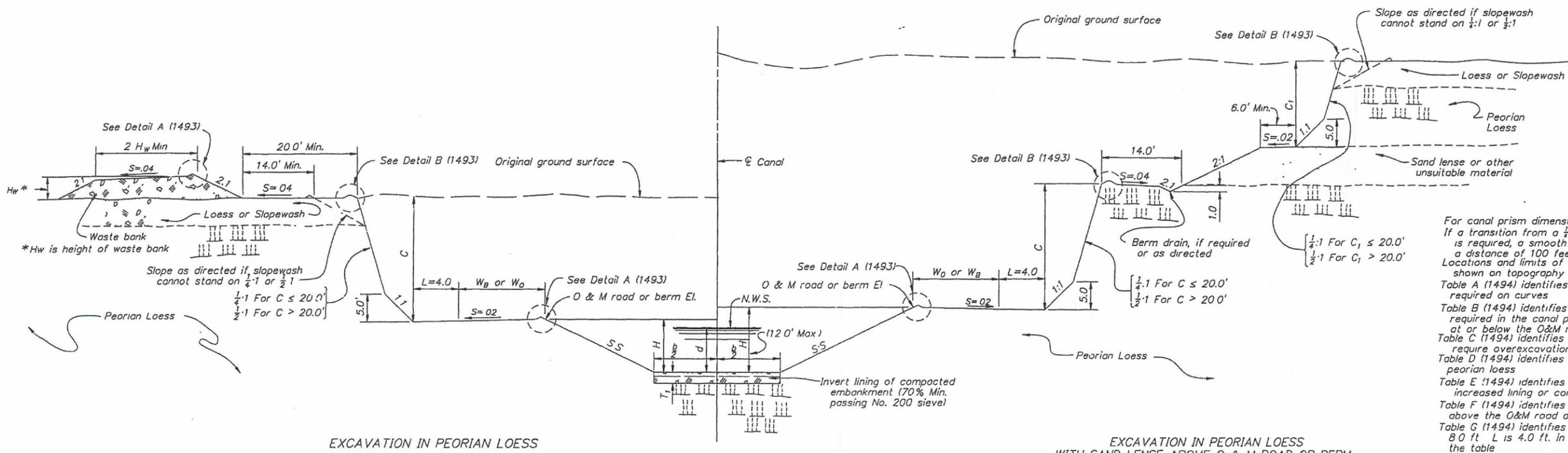
ALWAYS THINK SAFETY. UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF RECLAMATION PICK-SLOAN MISSOURI BASIN PROGRAM NORTH LOUP DIVISION-NEBRASKA FULLERTON SECTION 3 PIPE LATERALS LATERAL F-43.4 STA. 62+00 TO 78+00 PLAN AND PROFILE. Includes design and approval signatures and dates.

TECHNICAL APPROVAL [Signature] SUBMITTED [Signature] APPROVED [Signature]

TECH. APPROVAL [Signature] SUBMITTED [Signature] APPROVED [Signature]

GRAND ISLAND, NEBRASKA OCTOBER 4, 1999 SHEET 3 OF 5 628-705-3162A

8 7 6 5 4 3 2 1



EXCAVATION IN PEORIAN LOESS

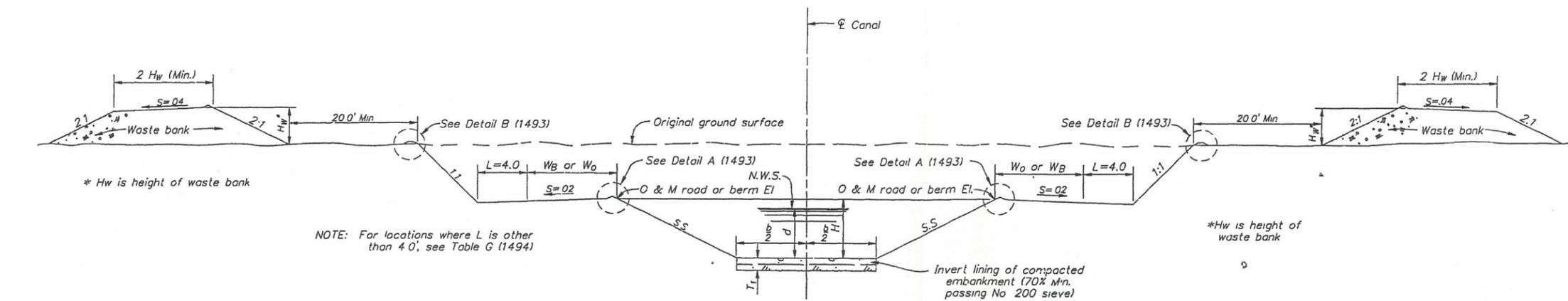
EXCAVATION IN PEORIAN LOESS WITH SAND LENSE ABOVE O & M ROAD OR BERM

TYPICAL CANAL SECTION IN PEORIAN LOESS

(See Table D dwg. 628-D-1494)

NOTES

For canal prism dimensions and properties, see 628-D-1494  
 If a transition from a 1/2:1 or a 3/4:1 slope to a 1:1 or 2:1 slope is required, a smooth transition shall be constructed over a distance of 100 feet.  
 Locations and limits of waste banks and waste areas are shown on topography drawings or will be as directed.  
 Table A (1494) identifies reaches where a gravel blanket is required on curves.  
 Table B (1494) identifies reaches where full compacted lining is required in the canal prism because either sand is at or below the O&M road or sinkholes exist.  
 Table C (1494) identifies reaches of canal embankment which require overexcavation of the foundation.  
 Table D (1494) identifies reaches of canal excavation in peorian loess.  
 Table E (1494) identifies reaches of canal which require increased lining or compacted embankment freeboard.  
 Table F (1494) identifies reaches where the sand formation is above the O&M road and slope modifications are required.  
 Table G (1494) identifies reaches where dimension L is 8.0 ft. L is 4.0 ft. in all areas not listed in the table.  
 Table H (1494) identifies reaches where invert lining is not required.  
 Table J (1494) identifies reaches of canal with embankment which is expected to be constructed of sandy material.  
 All limiting stations and elevations shown in Tables B, C, D, F, H, and J are approximate and may be adjusted as directed to meet actual field conditions. Reaches not defined in the above tables may be discovered during construction, and the proper treatment shall be utilized where directed.  
 For details of interceptor drains, divert drains and protective drains parallel to the canal, see 628-D-1495, -1496, and -1497.  
 Reaches of low density material may exist along the canal alignment. If a culvert or siphon is located in the reach of low density material, the low density material must be overexcavated.  
 If a siphon or culvert is not located in the reach of low density material either of the following two treatment methods will be used for the canal embankment:  
 1. Overexcavate the foundation Or  
 2. Overbuild the canal embankment 1.0'  
 Low density material is defined as any material having a dry unit weight of 85 lbs/ft<sup>3</sup> or less.  
 Reaches of low density foundation material which are identified during construction, to be overexcavated, shall be overexcavated according to the following criteria:  
 1. Fill (Y) greater than 15 feet  
 Excavate low density material up to 10 feet deep  
 2. Fill (Y) less than 15 feet.  
 Excavate low density material up to 5 feet deep  
 When going into and out of overexcavation for low density areas, use a 6:1 ramp  
 For details of gravel blanketing at curves, see 628-D-1493.  
 W<sub>0</sub> is 14.0 ft. and is O & M road width and W<sub>B</sub> is 12.0 ft and is width of berm, unless otherwise noted on drawings.



TYPICAL CANAL SECTION

(EXCAVATION IN ALL AREAS OTHER THAN THOSE NOTED IN TABLES FOR PEORIAN LOESS AND SAND)

4 - 16 - 91 DELETE "MODIFICATIONS OF" FROM 32<sup>ND</sup> AND 33<sup>RD</sup> LINES OF NOTES.  
 0 - 0 - 91

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UNITED STATES  
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 PICK-SLOAN MISSOURI BASIN PROGRAM  
 NORTH LOUP DIVISION-NEBRASKA

**FULLERTON CANAL - SECTIONS 2 AND 3**  
 TYPICAL CANAL SECTIONS

DESIGNED *A. Stelman* TECHNICAL APPROVAL *A. Stelman*  
 DRAWN *C. Kramer* SUBMITTED *David R. Dworkin*  
 CHECKED *J. B. Starbuck* APPROVED *D. S. Bracka*  
CHIEF WATER CONVEYANCE BRANCH

DENVER, COLORADO DECEMBER 20, 1990 628-D-1491  
 SHEET 1 OF 4