

The Road Inventory of Rocky Mountain Arsenal National Wildlife Refuge Commerce City, CO



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Federal Highway Administration
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INTRODUCTION

The Transportation Equity Act for the 21st Century (Public Law 105-178) created the Refuge Roads Program. Refuge roads are those public roads that provide access to or within a unit of the National Wildlife Refuge System and for which title and maintenance responsibility is vested in the United States Government. Funds from the Highway Trust Fund are available for refuge roads and can be used by the station to pay the cost of:

- (a) Maintenance and improvements of refuge roads.
- (b) Maintenance and improvements of:
 - (1) Adjacent vehicle parking areas
 - (2) Provision for pedestrians and bicycles and
 - (3) Construction and reconstruction of roadside rest areas that are located in or adjacent to wildlife refuges
- (c) Administrative costs associated with such maintenance and improvements.

The funds available for refuge roads are to be disbursed based on the relative needs of the various refuges in the National Wildlife Refuge System, and taking into consideration:

- (a) The comprehensive conservation plan for each refuge;
- (b) The need for access as identified through land use planning; and
- (c) The impact of land use planning on existing transportation facilities.

To determine the relative needs of the U.S. Fish and Wildlife Service, the Federal Highway Administration (FHWA) was asked to inventory all public access roads and parking lots and provide a condition assessment of each. In 2008 the inventory was expanded to include administrative (service use only) roads and parking lots. An FHWA representative meets with refuge personnel to identify route segments and assign route numbers and functional classifications (See Appendix) for each route. All roads and parking lots are mapped using Trimble GPS units and visually assessed for condition using the RSL method of evaluation developed at Utah State University (See Appendix). Culverts, Gates, Guardrails and Low Water Crossings are also mapped and inspected for any obvious defects.

An estimate is provided, in year 2008 dollars, based on the condition determined by the rating system. Estimates are based upon data and location factors from the 2008 RS Means Heavy Construction Cost Data 22nd Annual Edition. Cost estimates should be evaluated on a case-by-case basis when being used for programming purposes.

Native Surfaced roads and parking lots already inventoried will not be re-inventoried and will not appear individually in report chapters 5, 6 and 8. Mileages and areas of native surfaced roads and parking lots will still appear in all summaries in the report and will remain in the road inventory database. In addition to this report, the FHWA will furnish the condition ratings of each route and segment to the Fish and Wildlife Service in a Microsoft Access database so the data can be included in their Real Property Inventory.

Rocky Mountain Arsenal NWR

Summaries

Route Miles and Percentages by Functional Class and Condition

F. C.	Condition Rating (Based on RSL)*										TOTAL MILES
	Excellent		Good		Fair		Poor		Failed		
	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	
I	3.30	35.4%	2.06	22.1%	3.84	41.2%	0.11	1.2%			9.31
II	2.01	25.5%	2.56	32.4%	1.98	25.1%	1.34	17.0%			7.89
III											
IV	0.1	14.9%			0.57	85.1%					0.67
V	8.19	17.4%	25.78	54.8%	12.00	25.5%	1.05	2.2%			47.02
Totals	13.60	21.0%	30.40	47%	18.39	28.3%	2.50	3.9%			64.89

*For a description of condition ratings for the various surface types see the Appendix.

Route Miles and Percentages by Surface Type and Condition

S. T.	Paved Condition Rating [Condition(RSL)]										TOTAL MILES
	Excellent (19-20)		Good (13-18)		Fair (7-12)		Poor (1-6)		Failed (0)		
	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	
AS	0.98	4.9%			16.35	82.5%	2.5	12.6%			19.83
CO											
Totals	0.98	4.9%			16.35	82.5%	2.50	12.6%			19.83

S. T.	Unpaved Condition Rating [Condition(RSL)]										TOTAL MILES
	Excellent (8-10)		Good (5-7)		Fair (3-4)		Poor (1-2)		Failed (0)		
	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	
GR	6.21	39.4%	9.56	60.6%							15.77
NA	6.41	30.2%	13.04	61.4%	1.79	8.4%					21.24
PR			7.80	96.9%	0.25	3.1%					8.05
Totals	12.62	28.0%	30.40	67.5%	2.04	4.5%					45.06

Square Footage (Parking Areas)

S. T.	Condition Rating										Total Square Feet
	Excellent		Good		Fair		Poor		Failed		
	Square Feet	%	Square Feet	%	Square Feet	%	Square Feet	%	Square Feet	%	
AS	6352	2.2%	242219	82.2%	45975	15.6%					294546
CO			1244	100%							1244
GR			102193	73.4%	36946	26.6%					139139
NA											
PR											
Totals	6352	1.5%	345656	79.5%	82921	19.1%					434929

Rocky Mountain Arsenal NWR

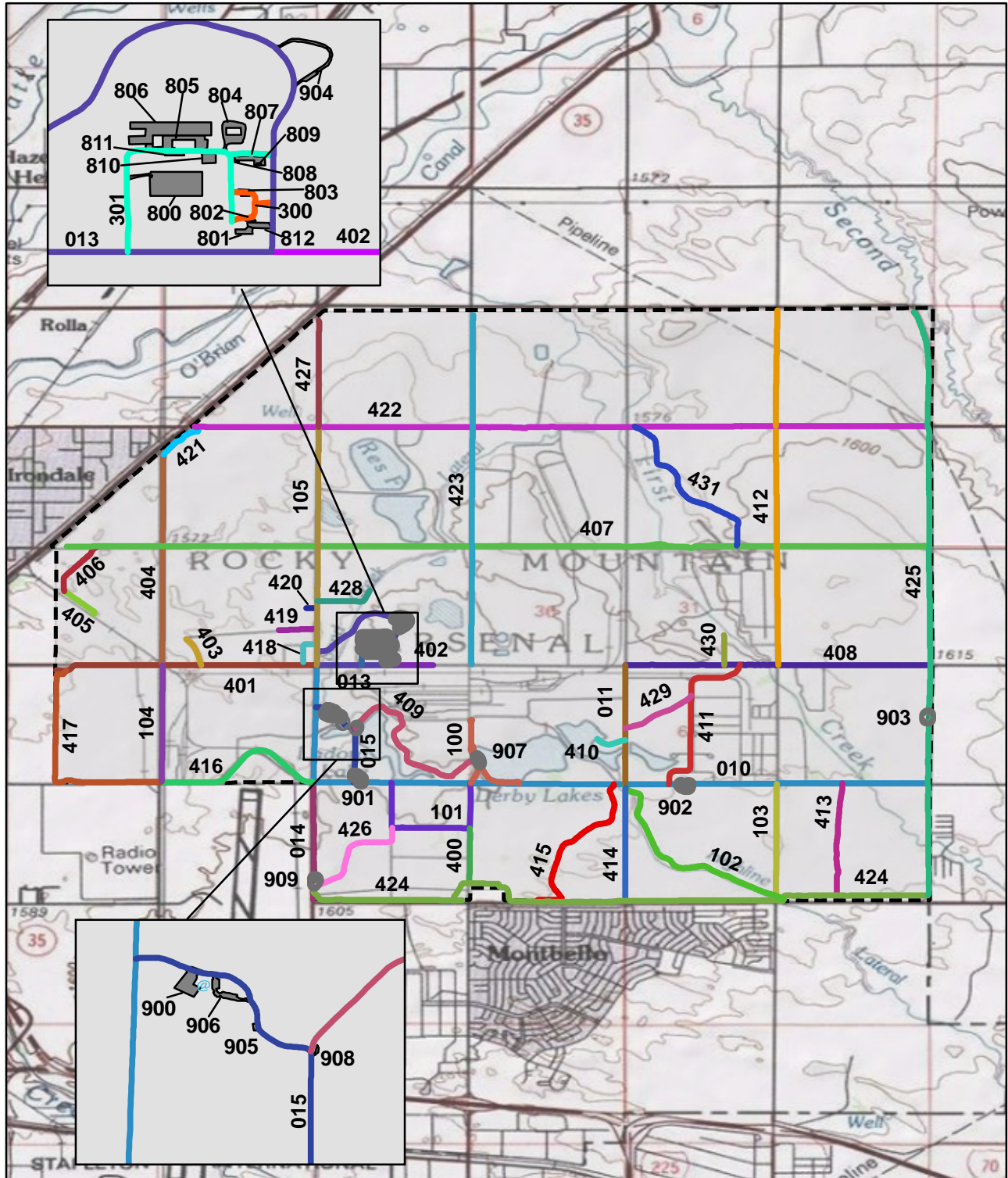
Summaries

Route Miles and Percentages by Use Type and Condition

USE TYPE	Road Condition Rating: Public/Administrative Use										TOTAL MILES	PERCENT TOTAL MILES
	Excellent		Good		Fair		Poor		Failed			
	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%		
Public (FC I-III)	5.31	30.9%	4.62	27%	5.82	33.8%	1.45	8.4%			17.20	27%
Admin (FC IV-V)	8.29	17.4%	25.78	54.1%	12.57	26.4%	1.05	2.2%			47.69	73%
Totals	13.60	21.0%	30.40	47%	18.39	28.3%	2.50	3.9%			64.89	

USE TYPE	Parking Condition Rating										Total Square Feet	PERCENT TOTAL SF
	Excellent		Good		Fair		Poor		Failed			
	Square Feet	%	Square Feet	%	Square Feet	%	Square Feet	%	Square Feet	%		
Public	6352	4.9%	39334	30.6%	82921	64.5%					128607	30%
Admin			306322	100%							306322	70%
Totals	6352	1.5%	345656	79.5%	82921	19.1%					434929	

Rocky Mountain Arsenal NWR ROUTE LOCATION MAP



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Rocky Mountain Arsenal NWR - 61170 - ROUTE IDENTIFICATION LIST (NUMERIC)

Shading Color Key:

White = Paved Routes
Yellow = Unpaved Routes

RTE #	Asset Number	ROUTE NAME	RTE MI	ROUTE DESCRIPTION	PAVED MI	UN-PAVED MI	LANES	FC
010	10053620	Southern Tram Route	4.97	From Rattlesnake Hill Loop (Rte 013) to end of route at east boundary	2.01	2.95	2	1
011	10024546	E' Street	1.00	From East 7th Avenue (Rte 408) to Southern Tram Route (Rte 010)	-	1.00	2	1
013	10059485	Rattlesnake Hill Loop	1.56	From West 7th Avenue (Rte 401) to 'C' Street (Rte 105)	0.50	1.06	2	1
014	10053620	South Entrance Road	0.99	From Entrance Gate at 56th to Southern Tram Route (Rte 010)	0.99	-	2	1
015	10053193	Visitor Center Spur	0.81	From Southern Tram Route (Rte 010) at 'C' Street to Southern Tram Route (Rte 010) at 6th Ave	0.45	0.35	2	1
100	10058371	Lower Derby Dam Road	1.09	From Southern Tram Route (Rte 010) East to Southern Tram Route (Rte 010) West	1.09	-	2	2
101	10053194	Quad Loop Road	1.26	From Southern Tram Route (Rte 010) West to Southern Tram Route (Rte 010) East	-	1.26	1	2
102	10024546	Highline Canal Loop	1.61	From Southern Tram Route (Rte 010) to South Perimeter Road (Rte 424)	-	1.62	1	2
103	10024546	South 'F' Street	0.94	From Highland Canal Loop (Rte 102) to Southern Tram Route (Rte 010)	-	0.94	1	2
104	10058161	South 'B' Street	0.98	From South FWS Boundary to West 7th Avenue (Rte 401)	0.98	-	2	2
105	-	C' Street	2.00	From West 7th Avenue (Rte 401) to 9th Avenue (Rte 422)	2.00	-	2	2
300	10058023	Building 130 Access Road	0.14	From Main Administration Loop Road (Rte 301) to Rattlesnake Hill Loop (Rte 013)	0.11	0.03	1	4
301	10058023	Main Administration Loop Road	0.53	From Building 130 Access Road (Rte 300) to Rattlesnake Hill Loop (Rte 013)	0.46	0.07	2	4
400	10053194	South 'D' Street	0.46	From Quad Loop Road (Rte 101) to South Perimeter Road (Rte 424)	-	0.46	1	5
401	10053621	West 7th Avenue	1.71	From 72nd Avenue at FWS Boundary to Rattlesnake Hill Loop (Rte 013)	1.71	-	2	5
402	-	Contractor Access Road	0.25	From Rattlesnake Hill Loop (Rte 013) to Haul Road	0.25	-	2	5
403	<Null>	Lift Station Access Road	0.24	From West 7th Avenue (Rte 401) to end	-	0.24	1	5
404	-	North 'B' Street	1.79	From West 7th Avenue (Rte 401) to FWS Boundary	-	1.79	1	5
405	-	Rail Grade Road	0.28	From West FWS Boundary to end of route	-	0.28	1	5
406	-	Irondale Treatment Access Road	0.46	From west boundary to 8th Avenue (Rte 407)	-	0.46	1	5
407	-	8th Avenue	5.75	From West FWS Boundary to East Perimeter Road (Rte 425)	2.34	3.40	1	5
408	10059011	East 7th Avenue	1.98	From East Perimeter Road (Rte 425) to 'E' Street (Rte 011)	-	1.98	1	5
409	-	Lake Ladora Access Road	1.39	From Lower Derby Dam Road (Rte 100) to Visitor Center Spur (Rte 015)	0.23	1.16	1	5
410	-	Upper Derby Lake Access Road	0.21	From 'E' Street (Rte 011) to end	-	0.21	1	5
411	-	Igloo Storage Access Road	1.34	From Southern Tram Route (Rte 010) to East 7th Avenue (Rte 408)	-	1.34	1	5
412	10024546	North 'F' Street	2.98	From East 7th Avenue (Rte 408) to North FWS Boundary	1.00	1.97	2	5

Rocky Mountain Arsenal NWR - 61170 - ROUTE IDENTIFICATION LIST (NUMERIC)

Shading Color Key:

White = Paved Routes
Yellow = Unpaved Routes

RTE #	Asset Number	ROUTE NAME	RTE MI	ROUTE DESCRIPTION	PAVED MI	UN-PAVED MI	LANES	FC
413	-	Section 8 Wetland Access Road	0.95	From Southern Tram Route (Rte 010) to South Perimeter Road (Rte 424)	-	0.95	1	5
414	10053194	South 'E' Street	0.95	From Highline Canal Loop (Rte 102) to South Perimeter Road (Rte 424)	-	0.95	1	5
415	10053194	Uvalda Access Road	1.35	From South Perimeter Road (Rte 424) to Southern Tram Route (Rte 010)	-	1.35	1	5
416	10059472	6th Avenue Administrative Access Road	1.22	From Southern Tram Route (Rte 010) to South 'B' Street (Rte 104)	1.22	-	2	5
417	10053195	Section 4 Perimeter Road	1.68	From 'B' Street (Rte 104) to West 7th Avenue (Rte 401)	-	1.68	1	5
418	-	Bison Unloading Road	0.23	From 'C' Street (Rte 105) to end	-	0.23	1	5
419	-	Bison Watering Point Access Road	0.25	From 'C' Street (Rte 105) to end	-	0.25	1	5
420	-	Bison Weatherstation Access Road	0.07	From 'C' Street (Rte 105) to end	0.07	-	1	5
421	-	Section 27 Perimeter Road	0.35	From 9th Avenue (Rte 422) to North 'B' Street (Rte 404)	-	0.35	1	5
422	10057849	9th Avenue	4.75	From West FWS Boundary to East Perimeter Road (Rte 425)	1.48	3.28	2	5
423	-	North 'D' Street	2.94	From 7th Avenue East of administrative area to North FWS Boundary	2.94	-	2	5
424	10053195	South Perimeter Road	4.31	From South Entrance Road (Rte 014) to East Perimeter Road (Rte 425)	-	4.30	1	5
425	10053192	East Perimeter Road	4.91	From South Perimeter Road (Rte 424) to North FWS Boundary	-	4.91	1	5
426	10053194	Havana Ponds Access Road	0.85	From South Perimeter Road (Rte 424) to Quad Loop Road (Rte 101)	-	0.85	1	5
427	10059011	North 'C' Street	0.89	From 'C' street (Rte 105) to North FWS Boundary	-	0.89	1	5
428	-	Zero Discharge Facility Access Road	0.40	From 'C' Street (Rte 105) to Zero Discharge Facility	-	0.40	1	5
429	10059468	Outer Tour Loop Segment 5	0.51	From 'E' Street (Rte 011) to Igloo Storage Access Road (Rte 411)	-	0.51	1	5
430	10059467	Outer Tour Loop Segment 6	0.25	From East 7th Avenue (Rte 408) to end of route	-	0.25	1	5
431	10059473	Outer Tour Loop Segment 7	1.34	From 8th Avenue (Rte 407) to 9th Avenue (Rte 422)	-	1.34	1	5

Rocky Mountain Arsenal NWR - 61170 - ROUTE IDENTIFICATION LIST (PARKING)

Shading Color Key:

Green = Unpaved Parking Lots
Blue = Paved Parking Lots

RTE #	ASSET NUMBER	ROUTE NAME	RTE SQFT	ROUTE DESCRIPTION	PAVED SQFT	UN-PAVED SQFT
800	10058012	Building 111 Parking	99808		99808	-
801	10058024	Building 112 Parking	6956		6956	-
802		Building 130 South Parking	1966		1966	-
803		Building 130 North Parking	3053		3053	-
804	10058011	Building 181 Parking	28998		-	28998
805	10058021	Building 120 Shop Parking	37424		37424	-
806	10058021	Building 124 Equipment Parking	88856		88856	-
807		Building 128 Parking	14355		-	14355
808		Building 128 West Handicapped Parking	650		650	-
809		Building 128 East Handicapped Parking	594		594	-
810	10058020	Building 120 Southeast Parking	10188		-	10188
811	10058022	Building 121 Parking	4156		4156	-
812	10058024	Building 112A Parking	9318		-	9318
900	10024556	Visitor Center Parking	30389		30389	-
901	10024552	Lake Ladora Angler Parking	15586		15586	-
902		Wetlands Turnaround Parking	11314		-	11314
903	10050714	Wildlife Watch Parking	14554		-	14554
904	10050716	Rattlesnake Hill Parking	22392		-	22392
905	10053604	Lake Mary Parking	2509		-	2509
906	10053604	Visitor Center East Parking	18591		-	18591
907		Lower Derby Lake Dam Parking	4891		4891	-
908		Lake Ladora Dam Parking	1461		1461	-
909		South Entrance Truck Turnout	6920		-	6920

**CHANGES TO THE FISH AND WILDLIFE SERVICE ROAD INVENTORY REPORT
Rocky Mountain Arsenal NWR**

Routes added to previous inventory*:			
	Rte #	Rte Name	Reason for Addition
1.	103	South 'F' Street	Other
2.	104	South 'B' Street	Recently opened to public
3.	105	'C' Street	Recently opened to public
4.			
5.			
6.			
7.			
8.			
9.			

Routes removed from previous inventory:			
	Rte #	Rte Name	Reason for Removal
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			

Routes modified from previous inventory:				
	Rte #	Rte Name	Type of Modification	Description of Modification
1.	010	Southern Tram Route	Geometry/Length change	Sections 002 and 003 were merged into 001. Section 006 merged into route 425
2.	013	Rattlesnake Hill Loop	Geometry/Length change	Section 003 now part of route 105
3.	100	Lower Derby Dam Road	Geometry/Length change	Existing road closed. New route 100 located 1/2 mile to the West
4.	101	Quad Loop Road	Other	Sections 002 and 003 were merged into 001
5.	102	Highline Canal Loop	Geometry/Length change	Section 003 renamed route 103
6.				
7.				
8.				
9.				

Comments:

Route 103 created out of route 102 section 003.

* All Administrative Routes (FC IV & V) are new to the inventory and are not included in this list.



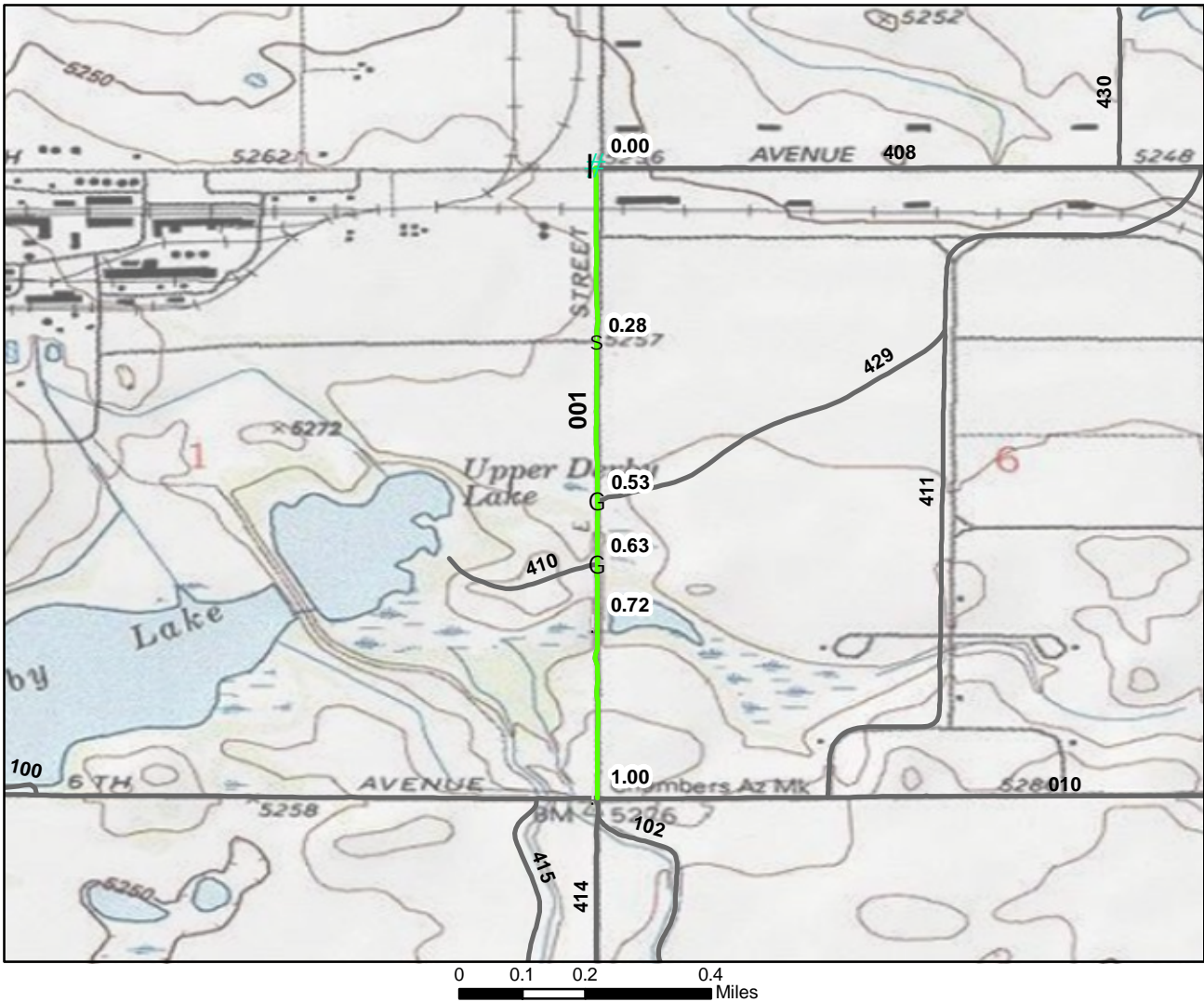
Excellent	Good	Fair	Poor	Failed	
Bridge	Gate	Culvert	Deficiency	3	
Begin Section	Low Water Crossing	Intersection	Railroad Crossing		Visitor Center
Boat Ramp	Fee Station	Political Boundary	Turnout/Parking		Problem Area

ROUTE: 010 Southern Tram Route TOTAL LENGTH: 4.97 Miles

ASSET: 10053620

RTE DESCRIPTION: From Rattlesnake Hill Loop (Rte 013) to end of route at East boundary

	001	002	003	004	005
Section Number	001	002	003	004	005
Section Length (miles)	0.98	1.03	0.99	0.98	0.98
Inspection Date	10/21/2008	10/21/2008	10/22/2008	10/22/2008	10/22/2008
Section Information					
Surface Type	Asphalt	Asphalt	Gravel	Gravel	Native
Number of Lanes	2	2	2	1	1
Roadway Width (feet)	22	24	20	14	14
Roadway Condition Information					
Condition	Fair	Fair	Excellent	Excellent	Excellent
Remaining Service Life (years)	10	12	10	9	9
Cost Estimate	\$112800	\$118500	\$0	\$0	\$0
CRV	\$1249000	\$1312700	\$727300	\$720000	\$372500



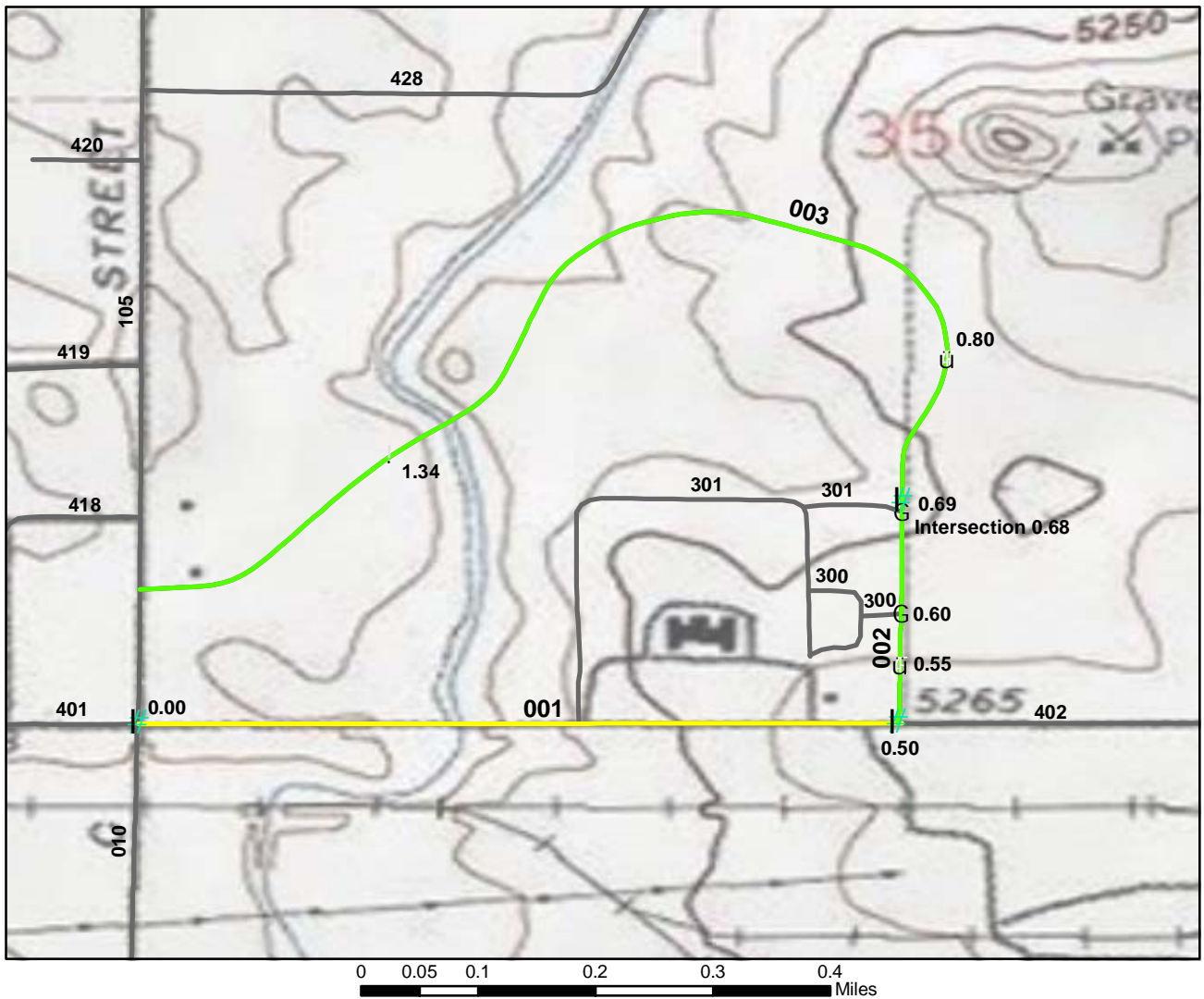
Excellent	Good	Fair	Poor	Failed	
Bridge	Gate	Culvert	Deficiency	3	
Begin Section	Low Water Crossing	Intersection	Railroad Crossing		Visitor Center
Boat Ramp	Fee Station	Political Boundary	Turnout/Parking		Problem Area

ROUTE: 011 'E' Street TOTAL LENGTH: 1 Miles

ASSET: 10024546

RTE DESCRIPTION: From East 7th Avenue (Rte 408) to Southern Tram Route (Rte 010)

Section Number	001			
Section Length (miles)	1.00			
Inspection Date	10/21/2008			
Section Information				
Surface Type	Native			
Number of Lanes	2			
Roadway Width (feet)	18			
Roadway Condition Information				
Condition	Good			
Remaining Service Life (years)	7			
Cost Estimate	\$1800			
CRV	\$380100			



Excellent	Good	Fair	Poor	Failed
à Bridge	S Gate	! Culvert	⊕ Deficiency	@ Visitor Center
# Begin Section	/ Low Water Crossing	G Intersection	⚡ Railroad Crossing	Ⓜ Turnout/Parking
y Boat Ramp	â Fee Station	Political Boundary	Ⓜ Turnout/Parking	k Problem Area

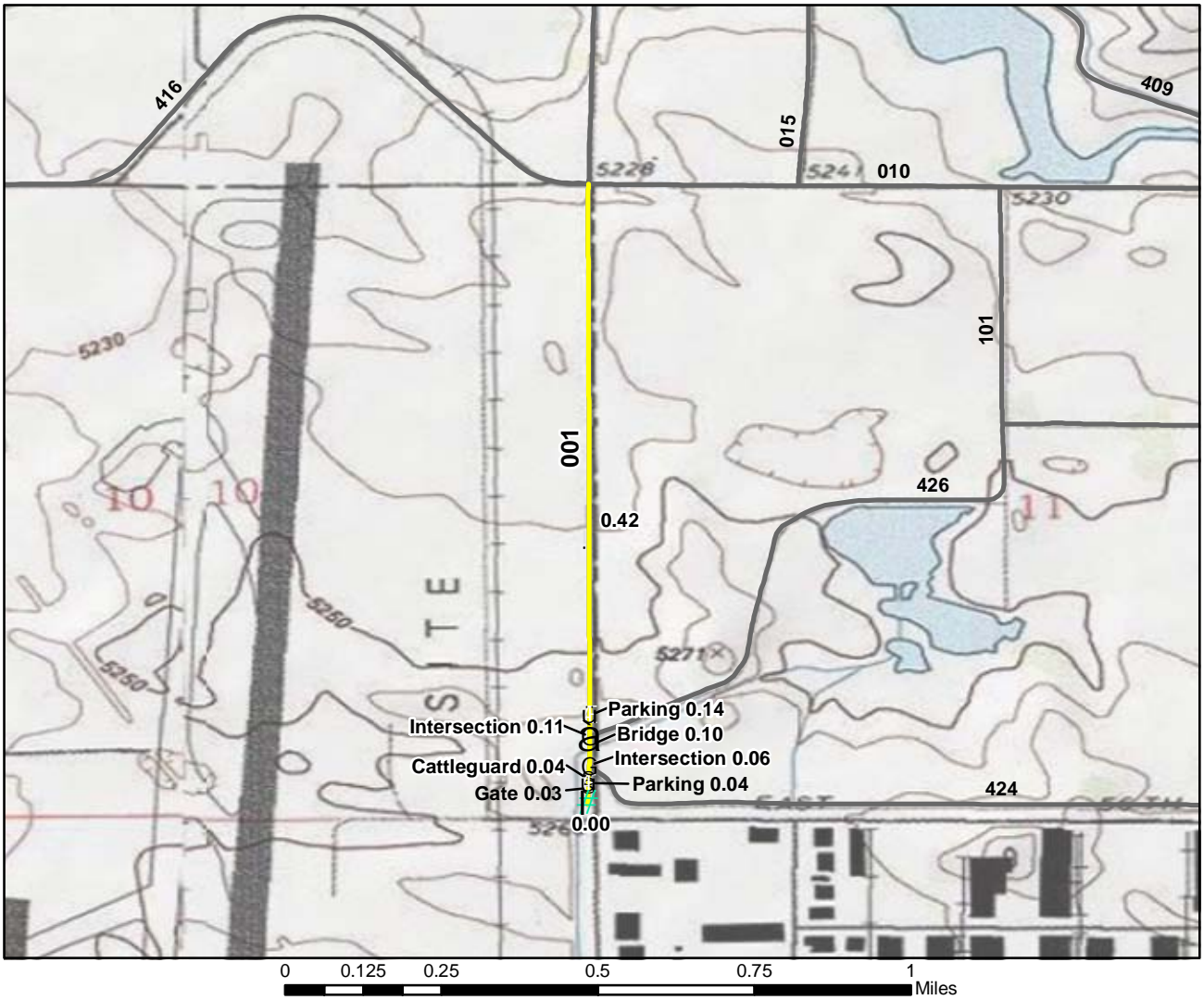
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ROUTE: 013 Rattlesnake Hill Loop TOTAL LENGTH: 1.56 Miles

ASSET: 10059485

RTE DESCRIPTION: From West 7th Avenue (Rte 401) to 'C' Street (Rte 105)

	001	002	003		
Section Number	001	002	003		
Section Length (miles)	0.50	0.19	0.87		
Inspection Date	10/21/2008	10/21/2008	10/21/2008		
Section Information					
Surface Type	Asphalt	Gravel	Gravel		
Number of Lanes	2	2	1		
Roadway Width (feet)	22	18	14		
Roadway Condition Information					
Condition	Fair	Good	Good		
Remaining Service Life (years)	10	7	7		
Cost Estimate	\$57500	\$300	\$1500		
CRV	\$637200	\$139600	\$639200		



Excellent	Good	Fair	Poor	Failed
Bridge	Gate	Culvert	Deficiency	3
Begin Section	Low Water Crossing	Intersection	Railroad Crossing	
Boat Ramp	Fee Station	Political Boundary	Turnout/Parking	
			Visitor Center	Problem Area

ROUTE: 014 South Entrance Road TOTAL LENGTH: 0.99 Miles

ASSET: 10053620

RTE DESCRIPTION: From Entrance Gate at 56th to Southern Tram Route (Rte 010)

Section Number	001			
Section Length (miles)	0.99			
Inspection Date	10/23/2008			
Section Information				
Surface Type	Asphalt			
Number of Lanes	2			
Roadway Width (feet)	22			
Roadway Condition Information				
Condition	Fair			
Remaining Service Life (years)	10			
Cost Estimate	\$113900			
CRV	\$1261800			



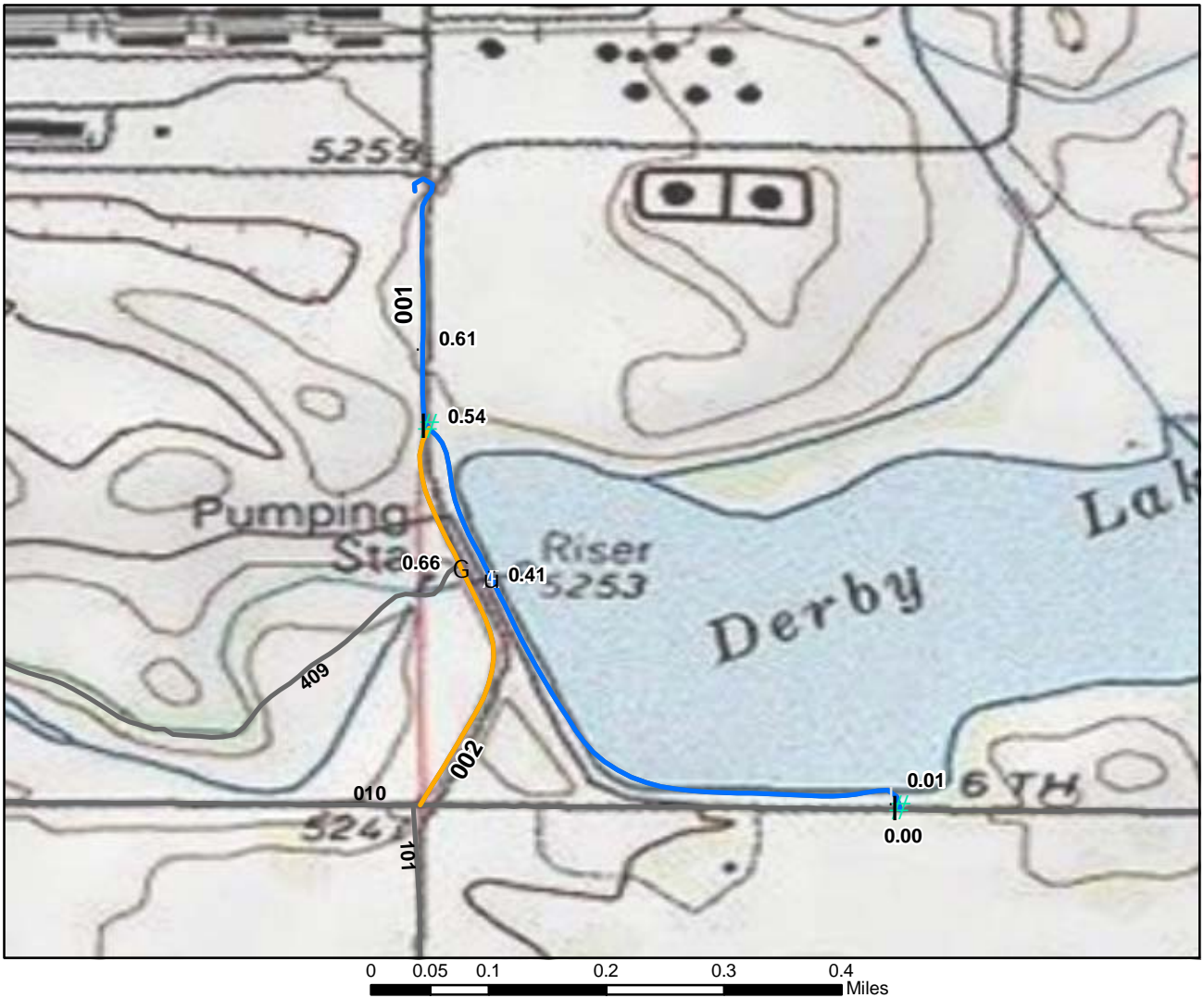
Excellent	Good	Fair	Poor	Failed
Bridge	Gate	Culvert	Deficiency	Visitor Center
Begin Section	Low Water Crossing	Intersection	Railroad Crossing	Turnout/Parking
Boat Ramp	Fee Station	Political Boundary	Problem Area	

3

ROUTE: 015 Visitor Center Spur TOTAL LENGTH: 0.81 Miles
 ASSET: 10053193

RTE DESCRIPTION: From Southern Tram Route (Rte 010) at 'C' Street to Southern Tram Route (Rte 010) at 6th Ave

Section Number	001	002	003	004	005
Section Length (miles)	0.11	0.15	0.28	0.20	0.06
Inspection Date	10/22/2008	10/22/2008	10/22/2008	10/22/2008	10/22/2008
Section Information					
Surface Type	Asphalt	Gravel	Asphalt	Gravel	Asphalt
Number of Lanes	2	2	2	2	2
Roadway Width (feet)	22	18	22	22	22
Roadway Condition Information					
Condition	Poor	Excellent	Fair	Excellent	Fair
Remaining Service Life (years)	6	8	8	10	12
Cost Estimate	\$69100	\$0	\$32200	\$0	\$6900
CRV	\$140200	\$110200	\$356900	\$146900	\$76500



Excellent	Good	Fair	Poor	Failed
Bridge	Gate	Culvert	Deficiency	Visitor Center
Begin Section	Low Water Crossing	Intersection	Railroad Crossing	Turnout/Parking
Boat Ramp	Fee Station	Political Boundary	Problem Area	

3

ROUTE: 100 Lower Derby Dam Road TOTAL LENGTH: 1.09 Miles
 ASSET: 10058371

RTE DESCRIPTION: From Southern Tram Route (Rte 010) East to Southern Tram Route (Rte 010) West

Section Number	001	002			
Section Length (miles)	0.75	0.34			
Inspection Date	10/22/2008	10/22/2008			
Section Information					
Surface Type	Asphalt	Asphalt			
Number of Lanes	2	2			
Roadway Width (feet)	18	20			
Roadway Condition Information					
Condition	Excellent	Poor			
Remaining Service Life (years)	20	6			
Cost Estimate	\$0	\$213500			
CRV	\$955900	\$433300			



0 0.1 0.2 0.4 Miles

Excellent	Good	Fair	Poor	Failed
Bridge	Gate	Culvert	Deficiency	
Begin Section	Low Water Crossing	Intersection	Railroad Crossing	Visitor Center
Boat Ramp	Fee Station	Political Boundary	Turnout/Parking	Problem Area

3

ROUTE: 101 Quad Loop Road

TOTAL LENGTH: 1.26 Miles

ASSET: 10053194

RTE DESCRIPTION: From Southern Tram Route (Rte 010) West to Southern Tram Route (Rte 010) East

Section Number	001				
Section Length (miles)	1.26				
Inspection Date	10/20/2008				
Section Information					
Surface Type	Native				
Number of Lanes	1				
Roadway Width (feet)	12				
Roadway Condition Information					
Condition	Excellent				
Remaining Service Life (years)	9				
Cost Estimate	\$0				
CRV	\$478900				

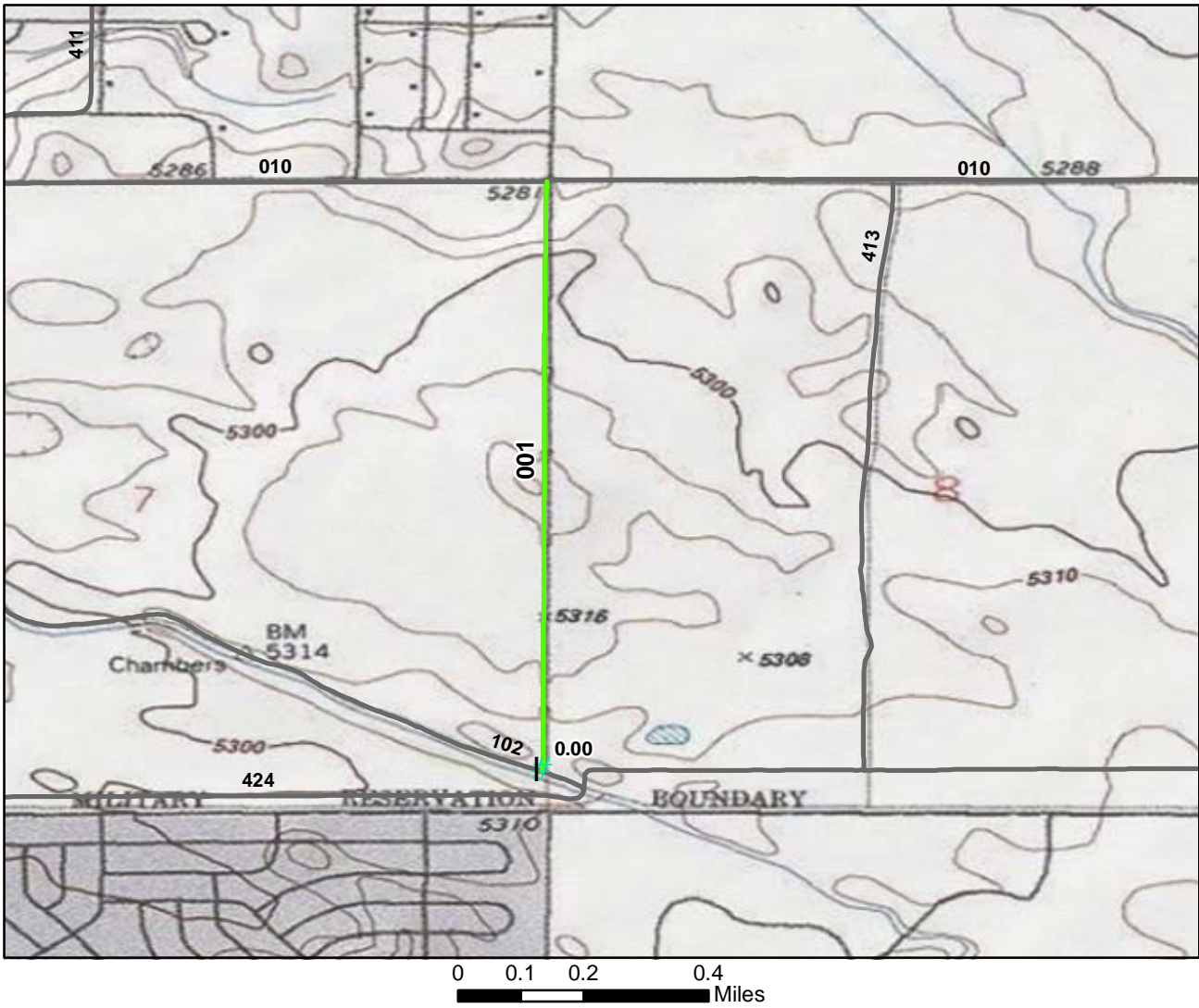


Excellent	Good	Fair	Poor	Failed	
Bridge	Gate	Culvert	Deficiency	3	
Begin Section	Low Water Crossing	Intersection	Railroad Crossing		Visitor Center
Boat Ramp	Fee Station	Political Boundary	Turnout/Parking		Problem Area

ROUTE: 102 Highline Canal Loop TOTAL LENGTH: 1.61 Miles
 ASSET: 10024546

RTE DESCRIPTION: From Southern Tram Route (Rte 010) to South Perimeter Road (Rte 424)

Section Number	001	002		
Section Length (miles)	1.03	0.59		
Inspection Date	10/21/2008	10/21/2008		
Section Information				
Surface Type	Gravel	Gravel		
Number of Lanes	1	1		
Roadway Width (feet)	12	12		
Roadway Condition Information				
Condition	Good	Good		
Remaining Service Life (years)	7	7		
Cost Estimate	\$1800	\$1000		
CRV	\$756700	\$433500		



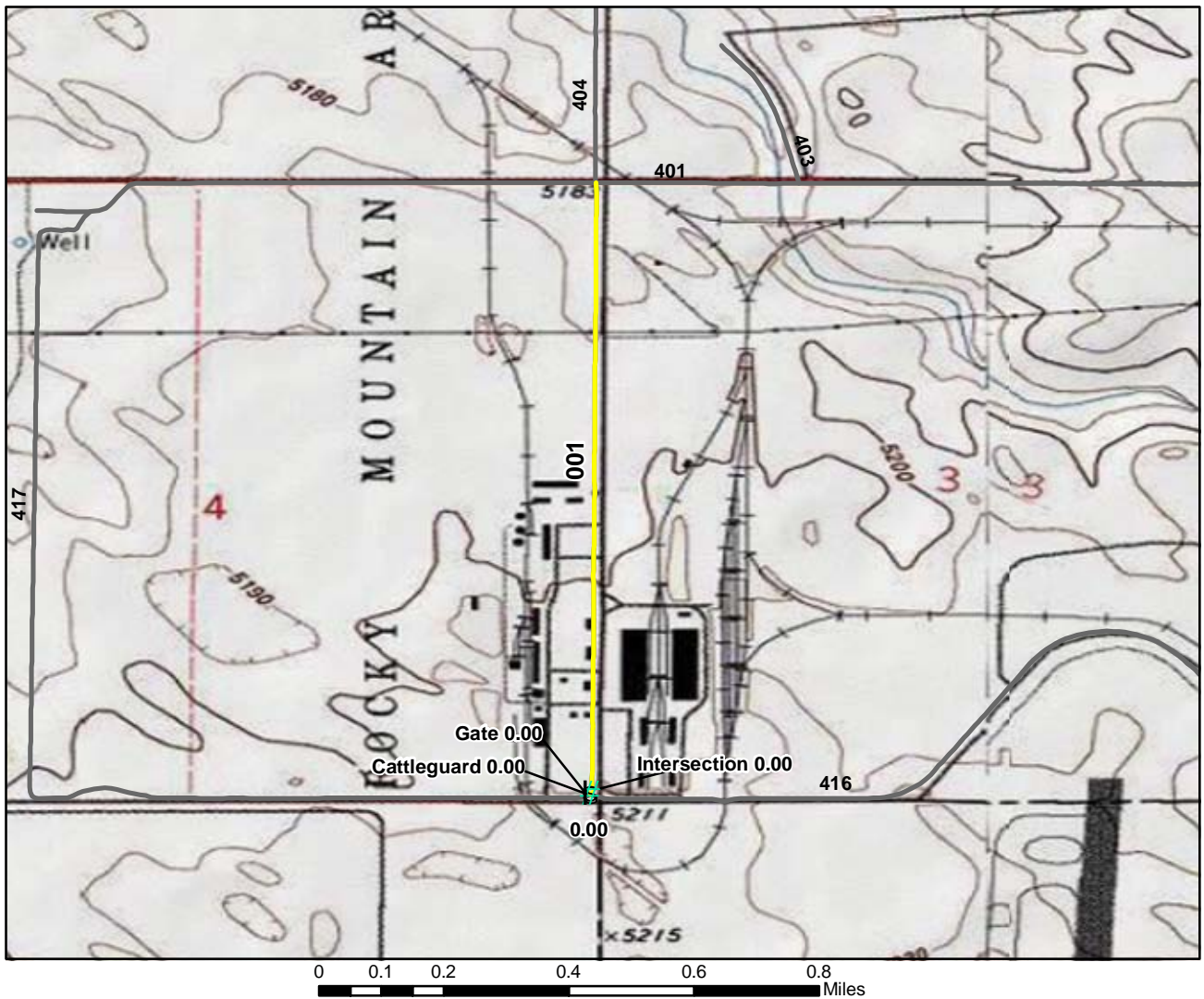
Excellent	Good	Fair	Poor	Failed	
Bridge	Gate	Culvert	Deficiency	3	
Begin Section	Low Water Crossing	Intersection	Railroad Crossing		Visitor Center
Boat Ramp	Fee Station	Political Boundary	Turnout/Parking		Problem Area

ROUTE: 103 South 'F' Street TOTAL LENGTH: 0.94 Miles

ASSET: 10024546

RTE DESCRIPTION: From Highland Canal Loop (Rte 102) to Southern Tram Route (Rte 010)

Section Number	001			
Section Length (miles)	0.94			
Inspection Date	10/21/2008			
Section Information				
Surface Type	Gravel			
Number of Lanes	1			
Roadway Width (feet)	14			
Roadway Condition Information				
Condition	Good			
Remaining Service Life (years)	7			
Cost Estimate	\$1600			
CRV	\$690600			



Excellent	Good	Fair	Poor	Failed
à Bridge	S Gate	Culvert	⊕ Deficiency	@ Visitor Center
# Begin Section	/ Low Water Crossing	G Intersection	⚡ Railroad Crossing	Ⓜ Turnout/Parking
y Boat Ramp	â Fee Station	Political Boundary	Ⓜ Turnout/Parking	k Problem Area

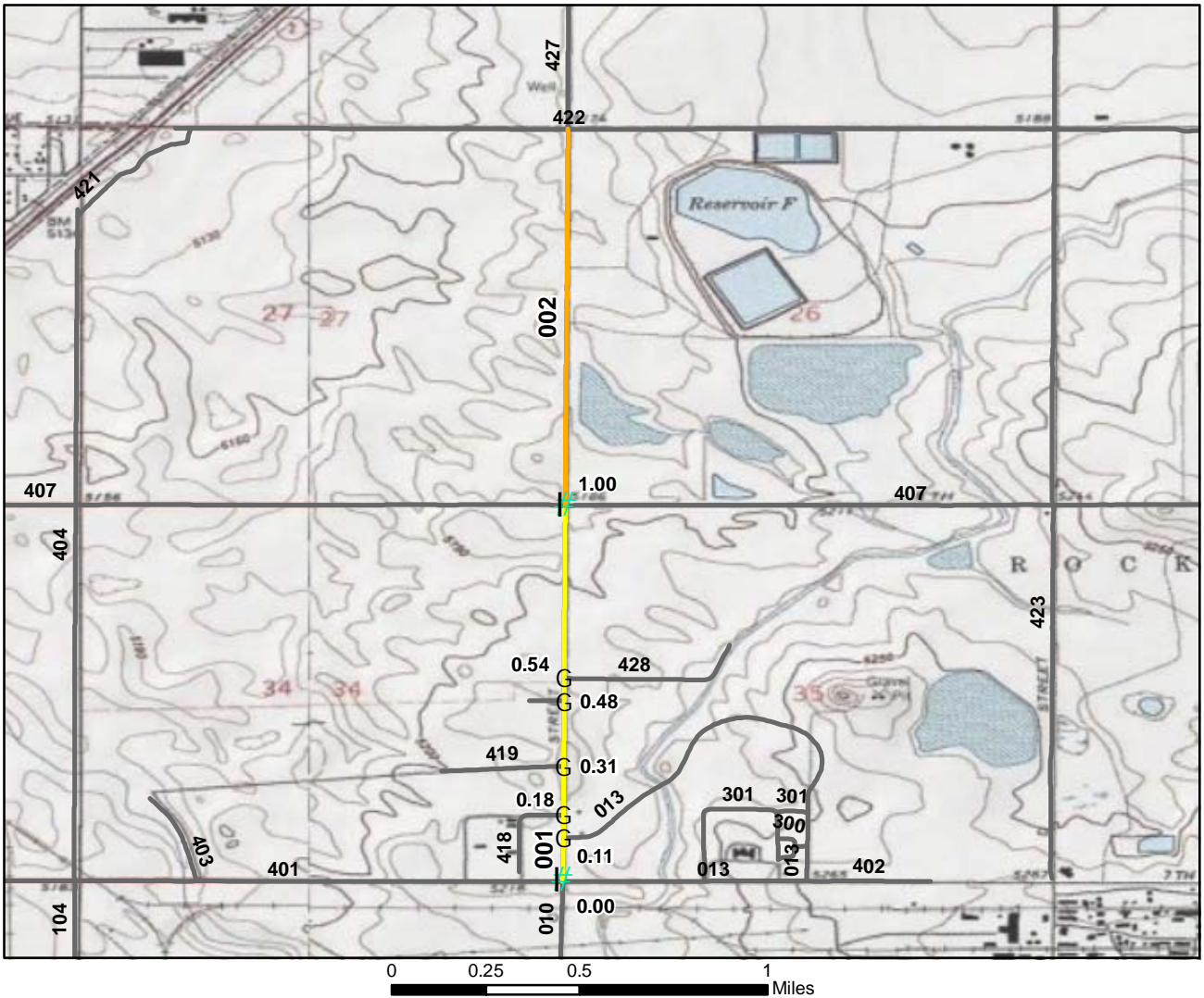
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ROUTE: 104 South 'B' Street TOTAL LENGTH: 0.98 Miles

ASSET: 10058161

RTE DESCRIPTION: From South FWS Boundary to West 7th Avenue (Rte 401)

Section Number	001			
Section Length (miles)	0.98			
Inspection Date	10/21/2008			
Section Information				
Surface Type	Asphalt			
Number of Lanes	2			
Roadway Width (feet)	24			
Roadway Condition Information				
Condition	Fair			
Remaining Service Life (years)	10			
Cost Estimate	\$112800			
CRV	\$1249000			



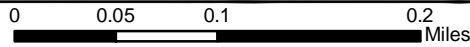
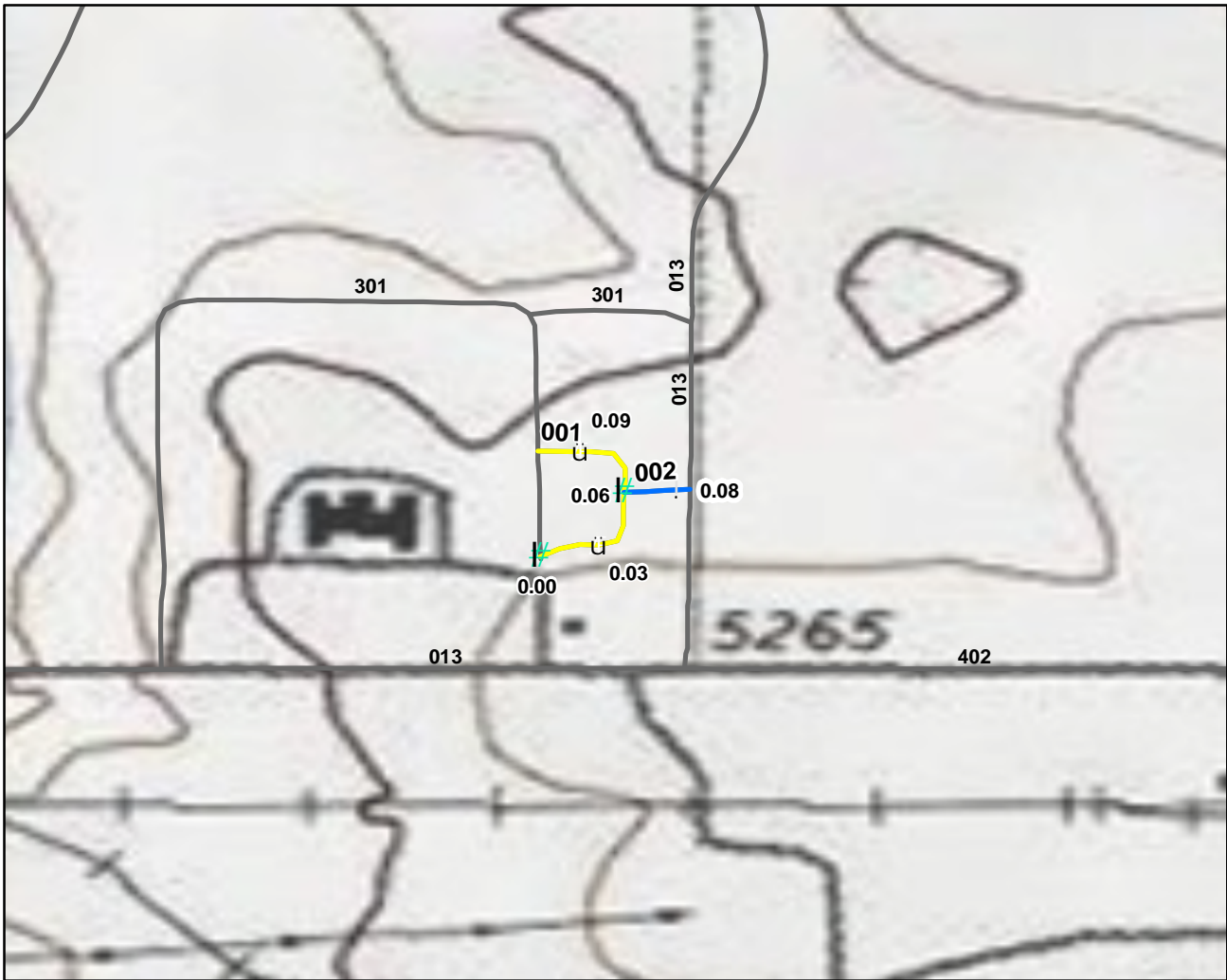
Excellent	Good	Fair	Poor	Failed	
Bridge	Gate	Culvert	Deficiency	3	
Begin Section	Low Water Crossing	Intersection	Railroad Crossing		Visitor Center
Boat Ramp	Fee Station	Political Boundary	Turnout/Parking		Problem Area

ROUTE: 105 'C' Street TOTAL LENGTH: 2 Miles

ASSET:

RTE DESCRIPTION: From West 7th Avenue (Rte 401) to 9th Avenue (Rte 422)

Section Number	001	002		
Section Length (miles)	1.00	1.00		
Inspection Date	10/23/2008	10/23/2008		
Section Information				
Surface Type	Asphalt	Asphalt		
Number of Lanes	2	2		
Roadway Width (feet)	22	22		
Roadway Condition Information				
Condition	Fair	Poor		
Remaining Service Life (years)	10	5		
Cost Estimate	\$115100	\$627900		
CRV	\$1274500	\$1274500		



Excellent	Good	Fair	Poor	Failed
Bridge	Gate	Culvert	Deficiency	Visitor Center
Begin Section	Low Water Crossing	Intersection	Railroad Crossing	Problem Area
Boat Ramp	Fee Station	Political Boundary	Turnout/Parking	

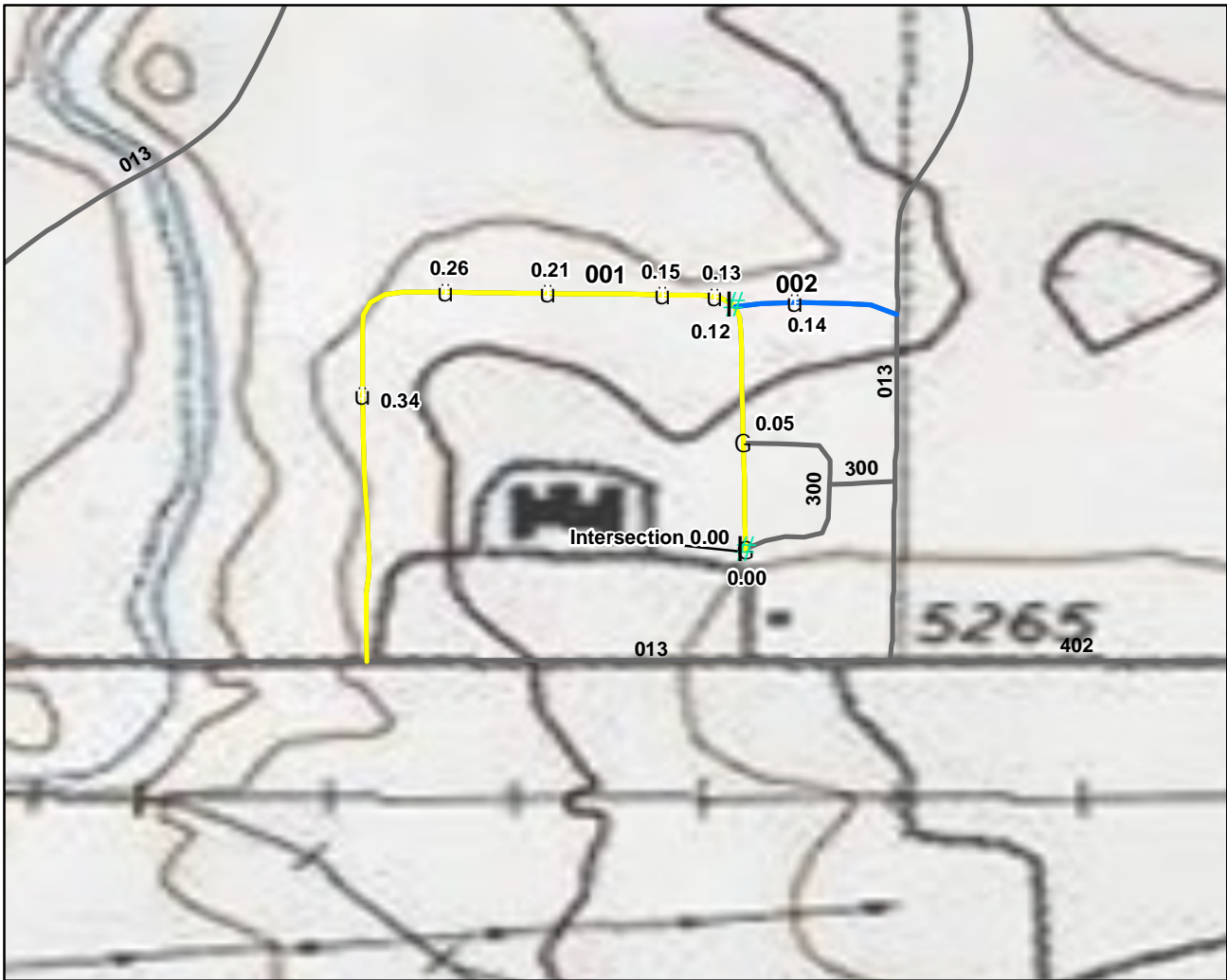
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ROUTE: 300 Building 130 Access Road TOTAL LENGTH: 0.14 Miles

ASSET: 10058023

RTE DESCRIPTION: From Main Administration Loop Road (Rte 301) to Rattlesnake Hill Loop (Rte (013))

Section Number	001	002		
Section Length (miles)	0.11	0.03		
Inspection Date	10/23/2008	10/23/2008		
Section Information				
Surface Type	Asphalt	Gravel		
Number of Lanes	1	2		
Roadway Width (feet)	14	16		
Roadway Condition Information				
Condition	Fair	Excellent		
Remaining Service Life (years)	12	9		
Cost Estimate	\$12700	\$0		
CRV	\$140200	\$22000		



Excellent	Good	Fair	Poor	Failed
à Bridge	S Gate	! Culvert	⚠ Deficiency	
# Begin Section	/ Low Water Crossing	G Intersection	🚂 Railroad Crossing	@ Visitor Center
y Boat Ramp	â Fee Station	i Political Boundary	ü Turnout/Parking	k Problem Area

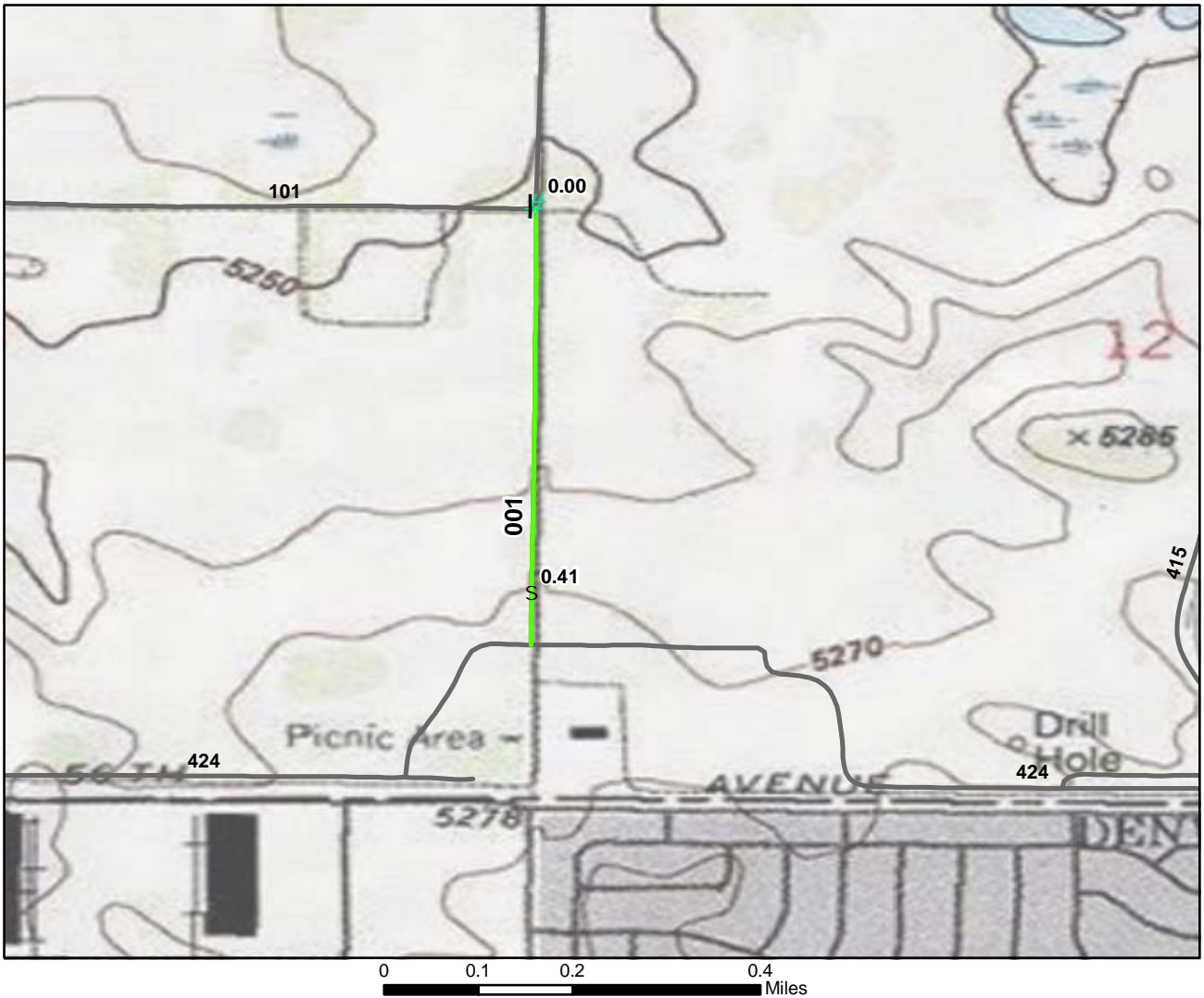
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ROUTE: 301 Main Administration Loop Road TOTAL LENGTH: 0.53 Miles

ASSET: 10058023

RTE DESCRIPTION: From Building 130 Access Road (Rte 300) to Rattlesnake Hill Loop (Rte 013)

Section Number	001	002		
Section Length (miles)	0.46	0.07		
Inspection Date	10/23/2008	10/23/2008		
Section Information				
Surface Type	Asphalt	Gravel		
Number of Lanes	2	2		
Roadway Width (feet)	24	18		
Roadway Condition Information				
Condition	Fair	Excellent		
Remaining Service Life (years)	10	9		
Cost Estimate	\$52900	\$0		
CRV	\$586300	\$51400		



	Excellent		Good		Fair		Poor		Failed		
	Bridge		Gate		Culvert		Deficiency		Railroad Crossing		Visitor Center
	Begin Section		Low Water Crossing		Intersection		Turnout/Parking		Problem Area		
	Boat Ramp		Fee Station		Political Boundary						

3

ROUTE: 400 South 'D' Street TOTAL LENGTH: 0.46 Miles
 ASSET: 10053194

RTE DESCRIPTION: From Quad Loop Road (Rte 101) to South Perimeter Road (Rte 424)

Section Number	001				
Section Length (miles)	0.46				
Inspection Date	10/20/2008				
Section Information					
Surface Type	Native				
Number of Lanes	1				
Roadway Width (feet)	12				
Roadway Condition Information					
Condition	Good				
Remaining Service Life (years)	7				
Cost Estimate	\$800				
CRV	\$174800				



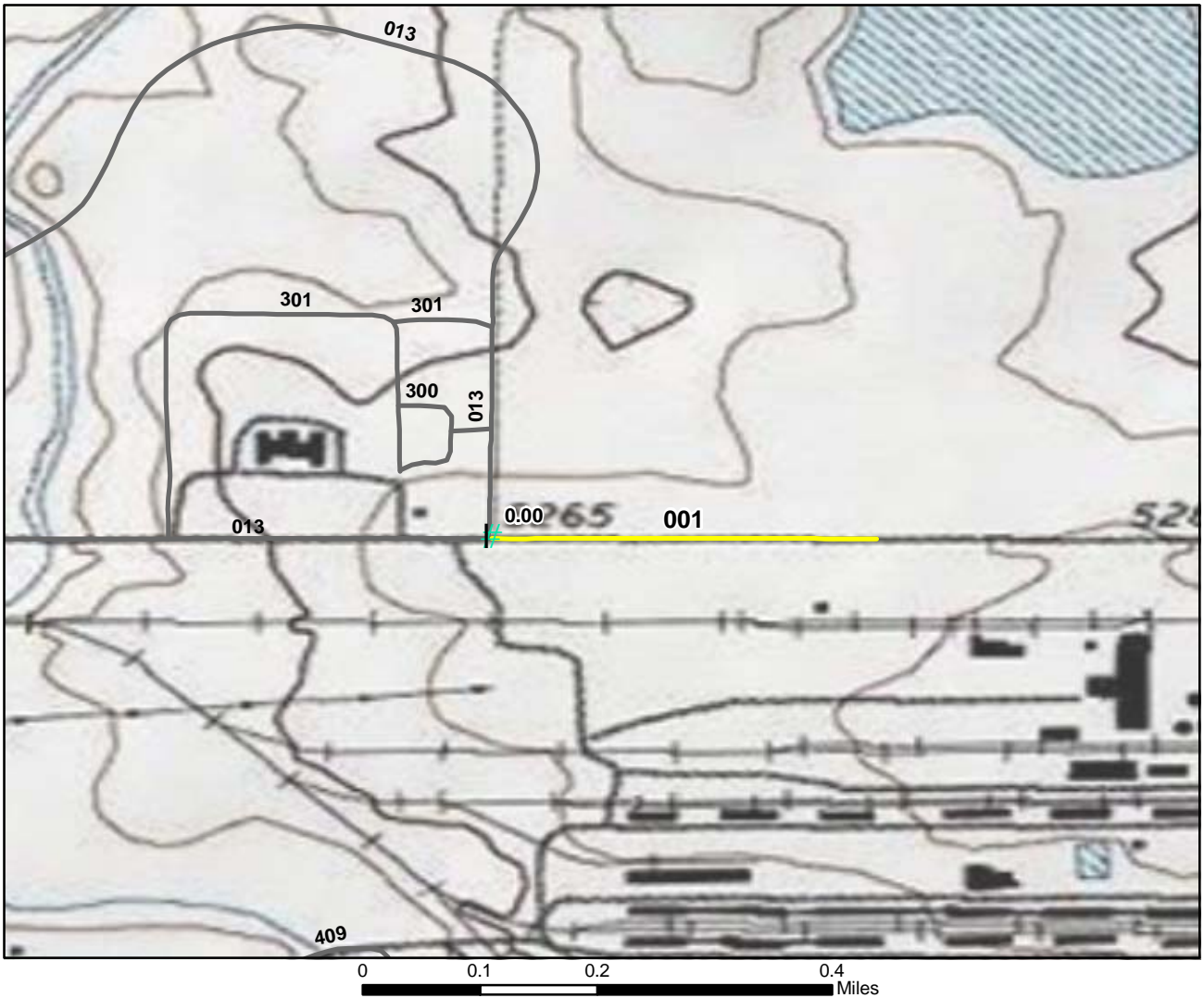
Excellent	Good	Fair	Poor	Failed	
Bridge	Gate	Culvert	Deficiency	3	
Begin Section	Low Water Crossing	Intersection	Railroad Crossing		Visitor Center
Boat Ramp	Fee Station	Political Boundary	Turnout/Parking		Problem Area

ROUTE: 401 West 7th Avenue TOTAL LENGTH: 1.71 Miles

ASSET: 10053621

RTE DESCRIPTION: From 72nd Avenue at FWS Boundary to Rattlesnake Hill Loop (Rte 013)

Section Number	001	002		
Section Length (miles)	0.99	0.72		
Inspection Date	10/21/2008	10/21/2008		
Section Information				
Surface Type	Asphalt	Asphalt		
Number of Lanes	2	2		
Roadway Width (feet)	22	22		
Roadway Condition Information				
Condition	Fair	Fair		
Remaining Service Life (years)	10	10		
Cost Estimate	\$113900	\$82900		
CRV	\$1261800	\$917600		



Excellent	Good	Fair	Poor	Failed
à Bridge	S Gate	Culvert	⊕ Deficiency	
# Begin Section	/ Low Water Crossing	G Intersection	⚡ Railroad Crossing	@ Visitor Center
y Boat Ramp	â Fee Station	Political Boundary	U Turnout/Parking	k Problem Area

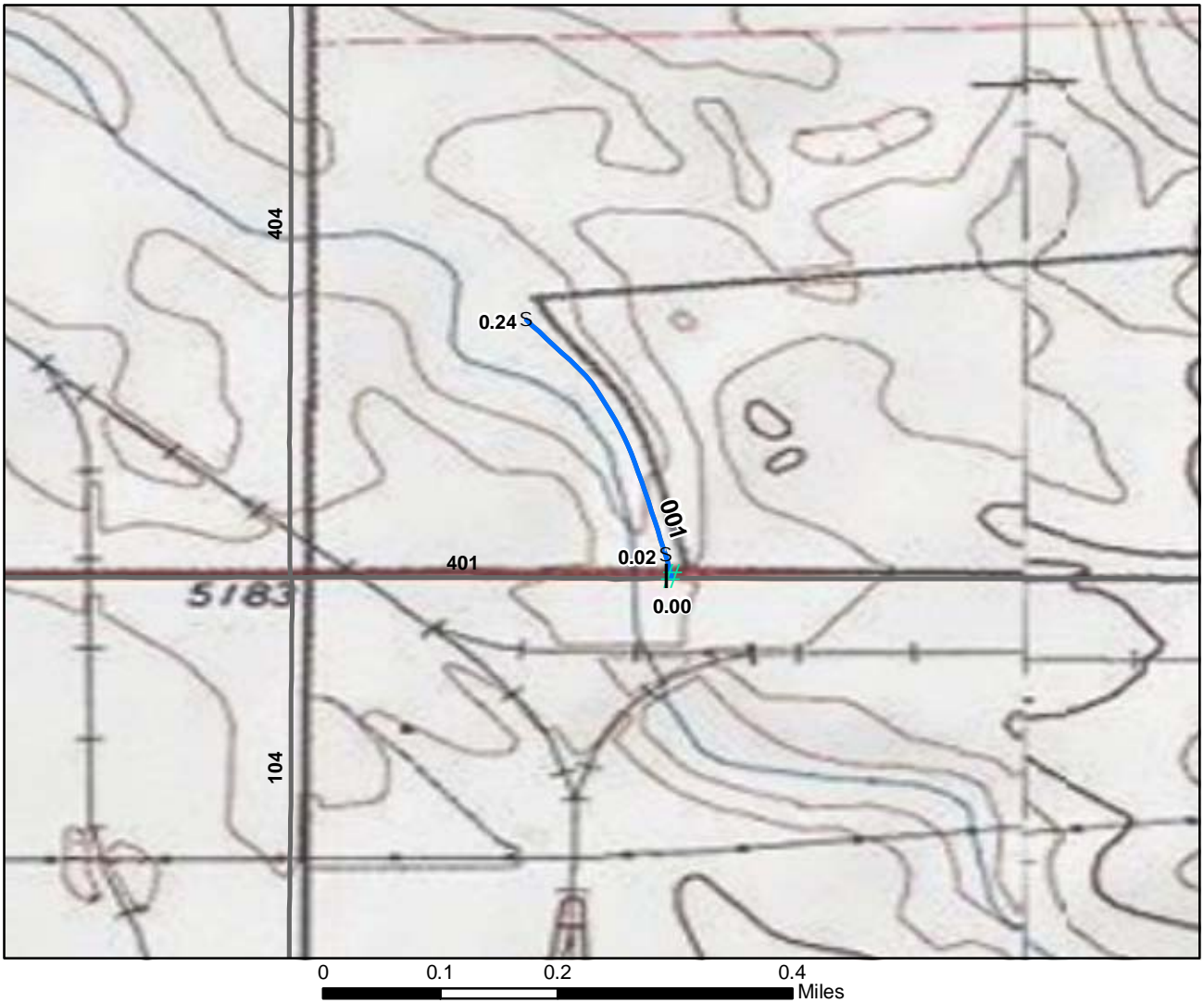
3

ROUTE: 402 Contractor Access Road TOTAL LENGTH: 0.25 Miles

ASSET:

RTE DESCRIPTION: From Rattlesnake Hill Loop (Rte 013) to Haul Road

Section Number	001			
Section Length (miles)	0.25			
Inspection Date	10/21/2008			
Section Information				
Surface Type	Asphalt			
Number of Lanes	2			
Roadway Width (feet)	22			
Roadway Condition Information				
Condition	Fair			
Remaining Service Life (years)	10			
Cost Estimate	\$28800			
CRV	\$318600			



Excellent	Good	Fair	Poor	Failed
Bridge	Gate	Culvert	Deficiency	Visitor Center
Begin Section	Low Water Crossing	Intersection	Railroad Crossing	Problem Area
Boat Ramp	Fee Station	Political Boundary	Turnout/Parking	

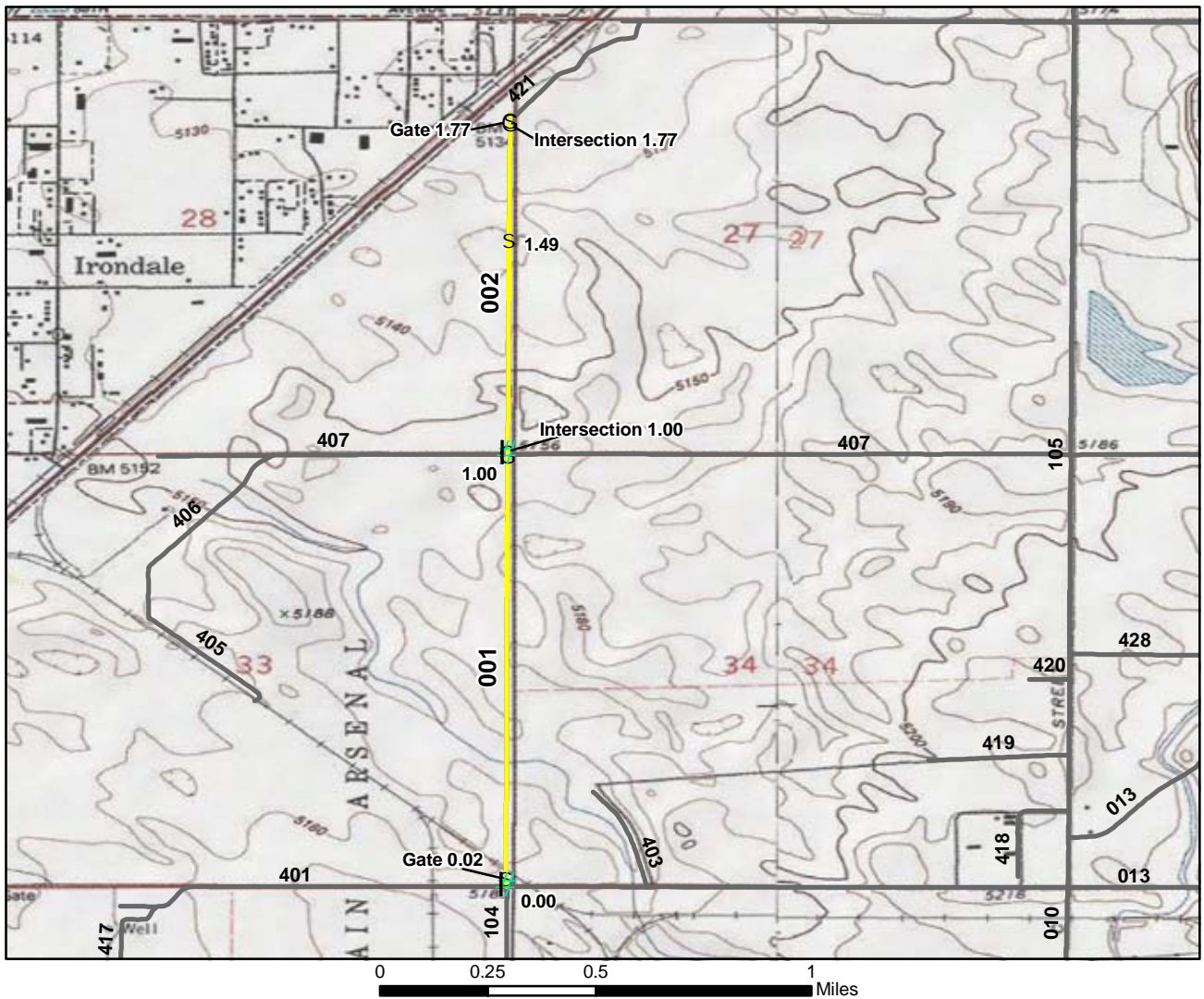
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ROUTE: 403 Lift Station Access Road TOTAL LENGTH: 0.24 Miles

ASSET: <Null>

RTE DESCRIPTION: From West 7th Avenue (Rte 401) to end

Section Number	001			
Section Length (miles)	0.24			
Inspection Date	10/21/2008			
Section Information				
Surface Type	Native			
Number of Lanes	1			
Roadway Width (feet)	10			
Roadway Condition Information				
Condition	Excellent			
Remaining Service Life (years)	9			
Cost Estimate	\$0			
CRV	\$91200			



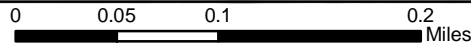
Excellent	Good	Fair	Poor	Failed	
Bridge	Gate	Culvert	Deficiency	3	
Begin Section	Low Water Crossing	Intersection	Railroad Crossing		Visitor Center
Boat Ramp	Fee Station	Political Boundary	Turnout/Parking		Problem Area

ROUTE: 404 North 'B' Street TOTAL LENGTH: 1.79 Miles

ASSET:

RTE DESCRIPTION: From West 7th Avenue (Rte 401) to FWS Boundary

Section Number	001	002		
Section Length (miles)	1.00	0.79		
Inspection Date	10/21/2008	10/21/2008		
Section Information				
Surface Type	Native	Native		
Number of Lanes	1	1		
Roadway Width (feet)	10	10		
Roadway Condition Information				
Condition	Fair	Fair		
Remaining Service Life (years)	3	3		
Cost Estimate	\$2300	\$1800		
CRV	\$380100	\$300200		



Excellent	Good	Fair	Poor	Failed
à Bridge	S Gate	! Culvert	⊕ Deficiency	
# Begin Section	/ Low Water Crossing	G Intersection	⚡ Railroad Crossing	@ Visitor Center
y Boat Ramp	â Fee Station	i Political Boundary	U Turnout/Parking	k Problem Area

3

ROUTE: 405 Rail Grade Road TOTAL LENGTH: 0.28 Miles

ASSET:

RTE DESCRIPTION: From West FWS Boundary to end of route

Section Number	001			
Section Length (miles)	0.28			
Inspection Date	10/21/2008			
Section Information				
Surface Type	Native			
Number of Lanes	1			
Roadway Width (feet)	10			
Roadway Condition Information				
Condition	Excellent			
Remaining Service Life (years)	9			
Cost Estimate	\$0			
CRV	\$106400			



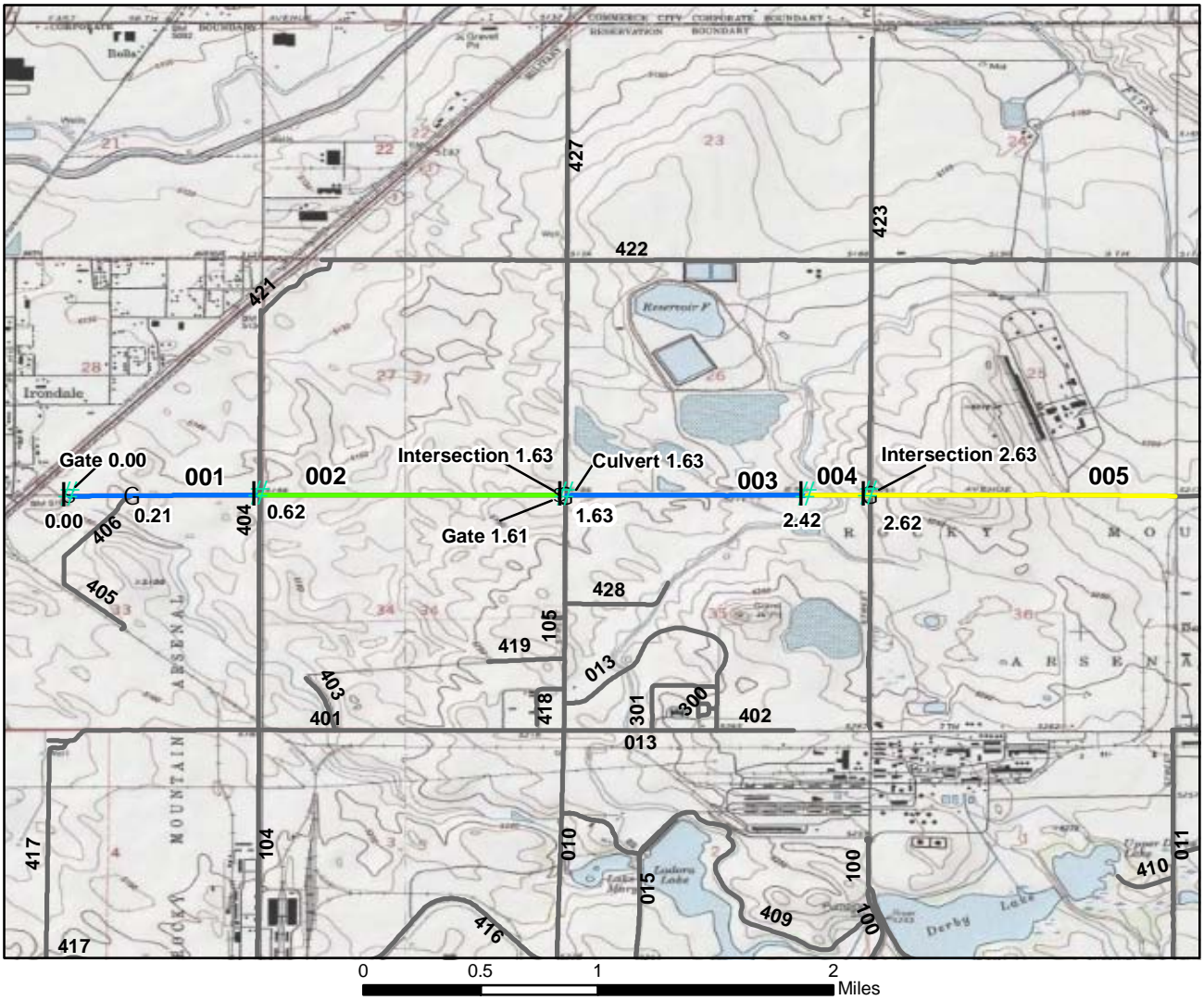
Excellent	Good	Fair	Poor	Failed
à Bridge	S Gate	! Culvert	⊕ Deficiency	
# Begin Section	/ Low Water Crossing	G Intersection	⚡ Railroad Crossing	@ Visitor Center
y Boat Ramp	â Fee Station	Political Boundary	U Turnout/Parking	k Problem Area

ROUTE: 406 Irondale Treatment Access Road TOTAL LENGTH: 0.46 Miles

ASSET:

RTE DESCRIPTION: From west boundary to 8th Avenue (Rte 407)

Section Number	001			
Section Length (miles)	0.46			
Inspection Date	10/21/2008			
Section Information				
Surface Type	Native			
Number of Lanes	1			
Roadway Width (feet)	10			
Roadway Condition Information				
Condition	Good			
Remaining Service Life (years)	7			
Cost Estimate	\$800			
CRV	\$174800			



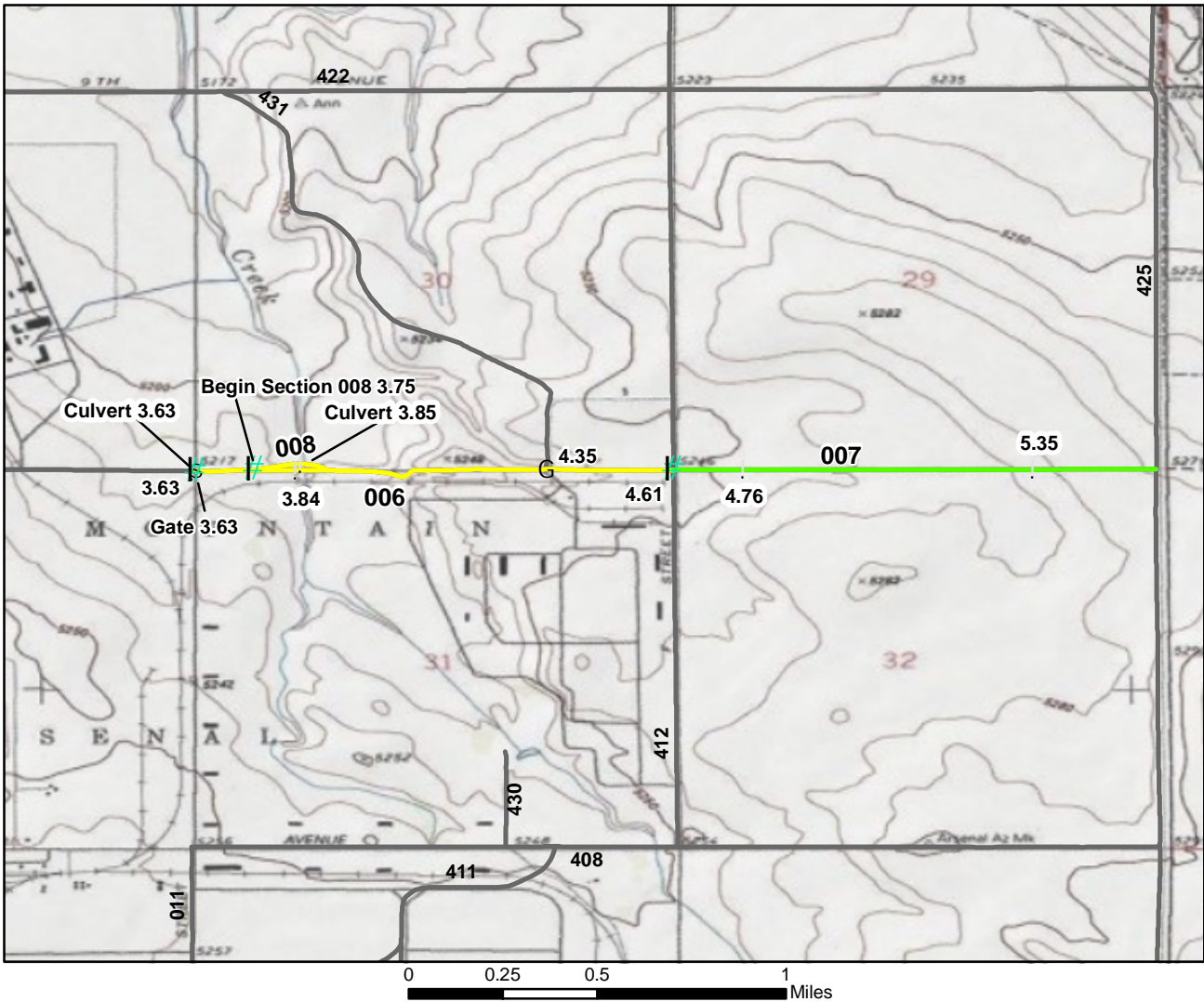
	Excellent		Good		Fair		Poor		Failed		
	Bridge		Gate		Culvert		Deficiency		Railroad Crossing		Visitor Center
	Begin Section		Low Water Crossing		Intersection		Turnout/Parking		Problem Area		
	Boat Ramp		Fee Station		Political Boundary						

ROUTE: 407 8th Avenue TOTAL LENGTH: 5.75 Miles

ASSET:

RTE DESCRIPTION: From West FWS Boundary to East Perimeter Road (Rte 425)

Section Number	001	002	003	004	005
Section Length (miles)	0.62	1.00	0.79	0.20	1.00
Inspection Date	10/21/2008	10/21/2008	10/21/2008	10/21/2008	10/21/2008
Section Information					
Surface Type	Native	Native	Gravel	Asphalt	Asphalt
Number of Lanes	1	1	2	2	2
Roadway Width (feet)	10	10	30	24	50
Roadway Condition Information					
Condition	Excellent	Good	Excellent	Fair	Fair
Remaining Service Life (years)	9	7	9	10	8
Cost Estimate	\$0	\$1800	\$0	\$23000	\$115100
CRV	\$235600	\$380100	\$580400	\$254900	\$1274500



Excellent	Good	Fair	Poor	Failed	
Bridge	Gate	Culvert	Deficiency	3	
Begin Section	Low Water Crossing	Intersection	Railroad Crossing		Visitor Center
Boat Ramp	Fee Station	Political Boundary	Turnout/Parking		Problem Area

ROUTE: 407 8th Avenue TOTAL LENGTH: 5.75 Miles

ASSET:

RTE DESCRIPTION: From West FWS Boundary to East Perimeter Road (Rte 425)

	006	007	008
Section Number	006	007	008
Section Length (miles)	0.98	0.99	0.16
Inspection Date	10/21/2008	10/21/2008	10/21/2008
Section Information			
Surface Type	Asphalt	Gravel	Asphalt
Number of Lanes	2	1	2
Roadway Width (feet)	50	10	50
Roadway Condition Information			
Condition	Fair	Good	Fair
Remaining Service Life (years)	8	7	8
Cost Estimate	\$112800	\$1700	\$18400
CRV	\$1249000	\$727300	\$203900



Excellent	Good	Fair	Poor	Failed	
Bridge	Gate	Culvert	Deficiency	3	
Begin Section	Low Water Crossing	Intersection	Railroad Crossing		Visitor Center
Boat Ramp	Fee Station	Political Boundary	Turnout/Parking		Problem Area

ROUTE: 408 East 7th Avenue

TOTAL LENGTH: 1.98 Miles

ASSET: 10059011

RTE DESCRIPTION: From East Perimeter Road (Rte 425) to 'E' Street (Rte 011)

Section Number	001	002		
Section Length (miles)	0.99	0.99		
Inspection Date	10/21/2008	10/21/2008		
Section Information				
Surface Type	Gravel	Gravel		
Number of Lanes	1	2		
Roadway Width (feet)	12	30		
Roadway Condition Information				
Condition	Good	Good		
Remaining Service Life (years)	7	5		
Cost Estimate	\$1700	\$1700		
CRV	\$727300	\$727300		



0 0.1 0.2 0.4 Miles

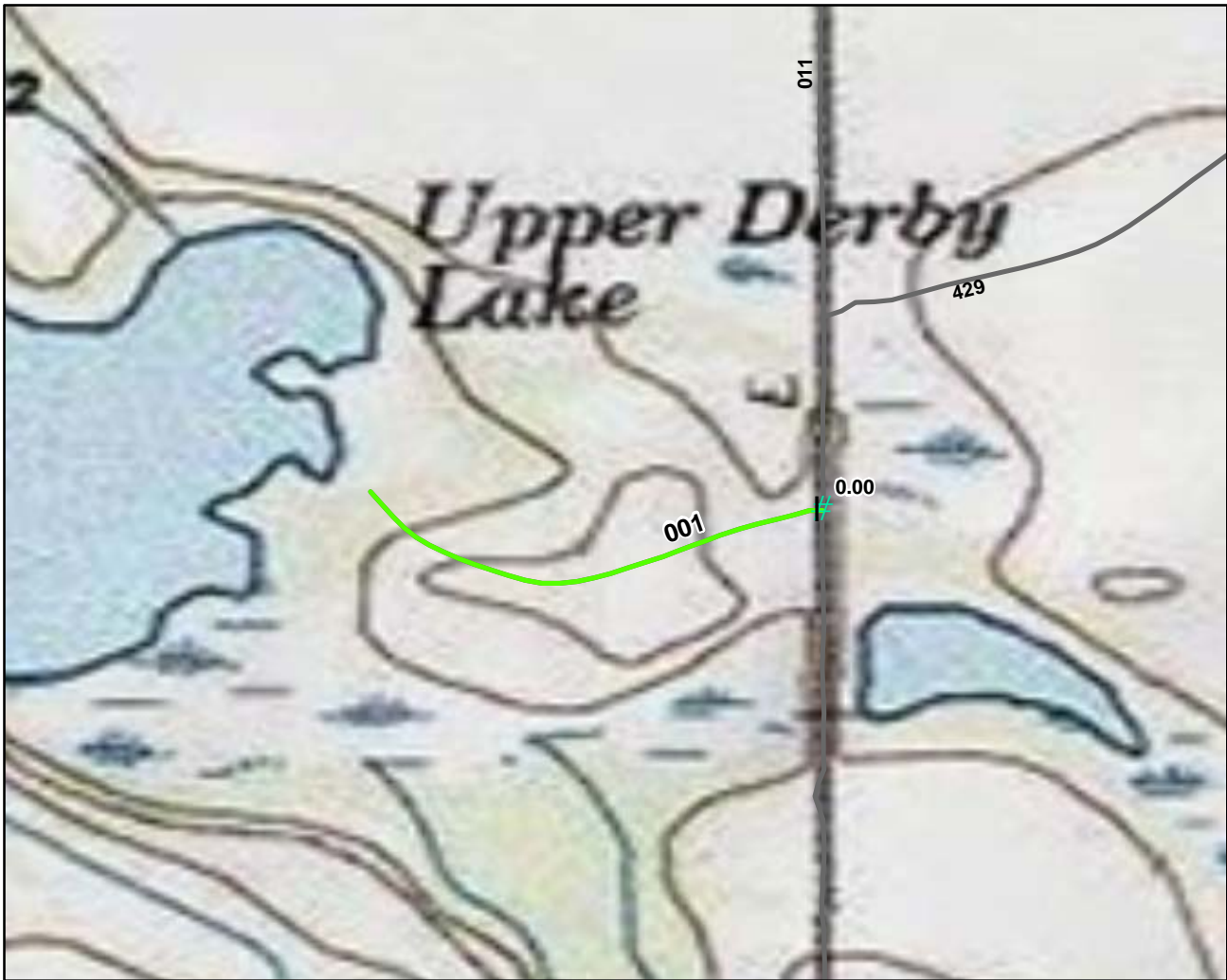
Excellent	Good	Fair	Poor	Failed	
Bridge	Gate	Culvert	Deficiency	3	
Begin Section	Low Water Crossing	Intersection	Railroad Crossing		Visitor Center
Boat Ramp	Fee Station	Political Boundary	Turnout/Parking		Problem Area

ROUTE: 409 Lake Ladora Access Road TOTAL LENGTH: 1.39 Miles

ASSET:

RTE DESCRIPTION: From Lower Derby Dam Road (Rte 100) to Visitor Center Spur (Rte 015)

Section Number	001	002		
Section Length (miles)	1.16	0.23		
Inspection Date	10/21/2008	10/21/2008		
Section Information				
Surface Type	Primitive	Asphalt		
Number of Lanes	1	2		
Roadway Width (feet)	8	24		
Roadway Condition Information				
Condition	Good	Excellent		
Remaining Service Life (years)	7	20		
Cost Estimate	\$500	\$0		
CRV	\$0	\$293100		



0 0.05 0.1 0.2 Miles

Excellent	Good	Fair	Poor	Failed
à Bridge	S Gate	! Culvert	⊕ Deficiency	@ Visitor Center
# Begin Section	/ Low Water Crossing	G Intersection	⚡ Railroad Crossing	Ⓜ Problem Area
y Boat Ramp	â Fee Station	i Political Boundary	⊔ Turnout/Parking	

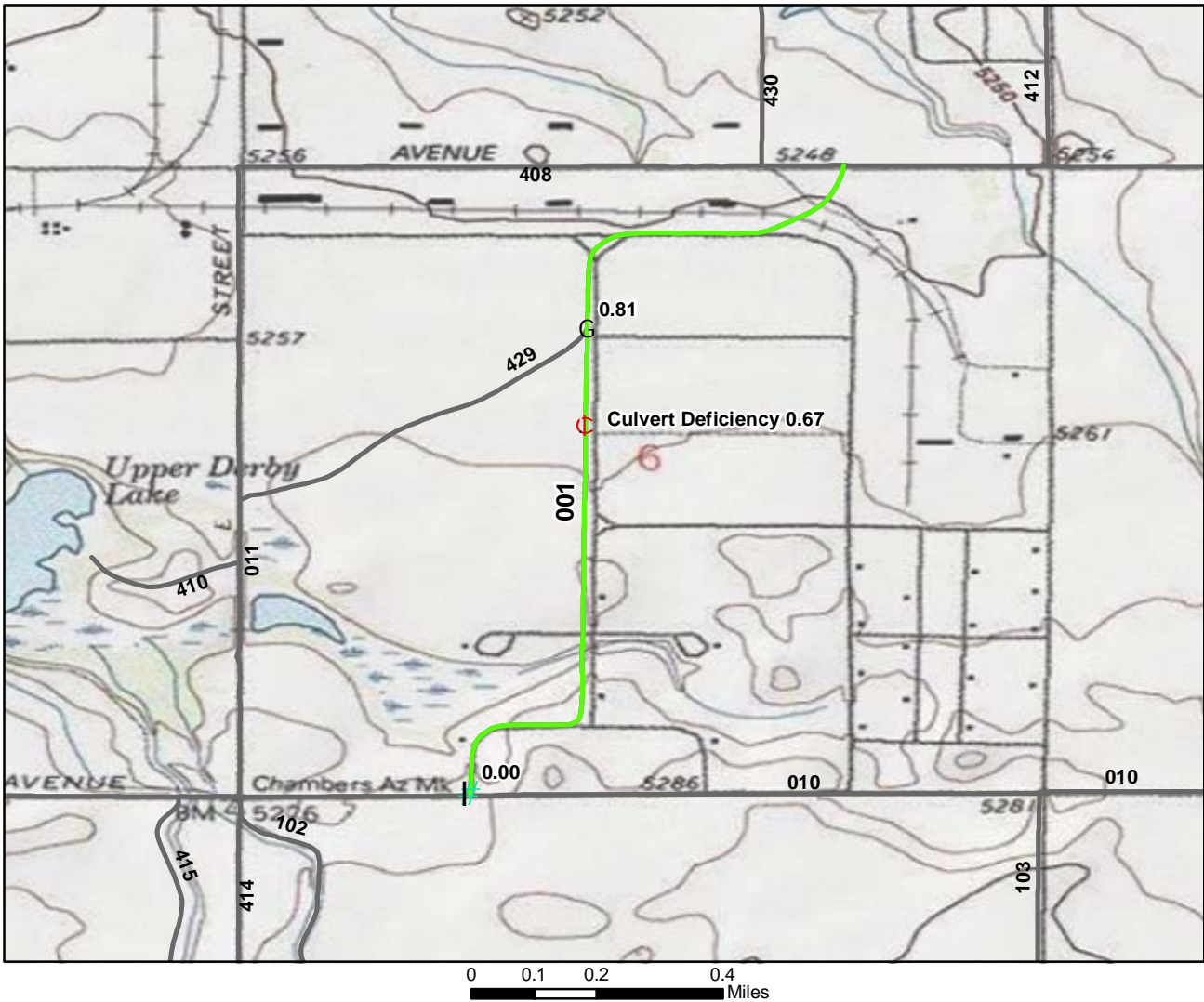
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ROUTE: 410 Upper Derby Lake Access Road TOTAL LENGTH: 0.21 Miles

ASSET:

RTE DESCRIPTION: From 'E' Street (Rte 011) to end

Section Number	001				
Section Length (miles)	0.21				
Inspection Date	10/22/2008				
Section Information					
Surface Type	Primitive				
Number of Lanes	1				
Roadway Width (feet)	8				
Roadway Condition Information					
Condition	Good				
Remaining Service Life (years)	7				
Cost Estimate	\$100				
CRV	\$0				



Excellent	Good	Fair	Poor	Failed
à Bridge	S Gate	! Culvert	⊕ Deficiency	@ Visitor Center
# Begin Section	/ Low Water Crossing	G Intersection	⚡ Railroad Crossing	⓪ Turnout/Parking
y Boat Ramp	â Fee Station	Political Boundary	⓪ Turnout/Parking	k Problem Area

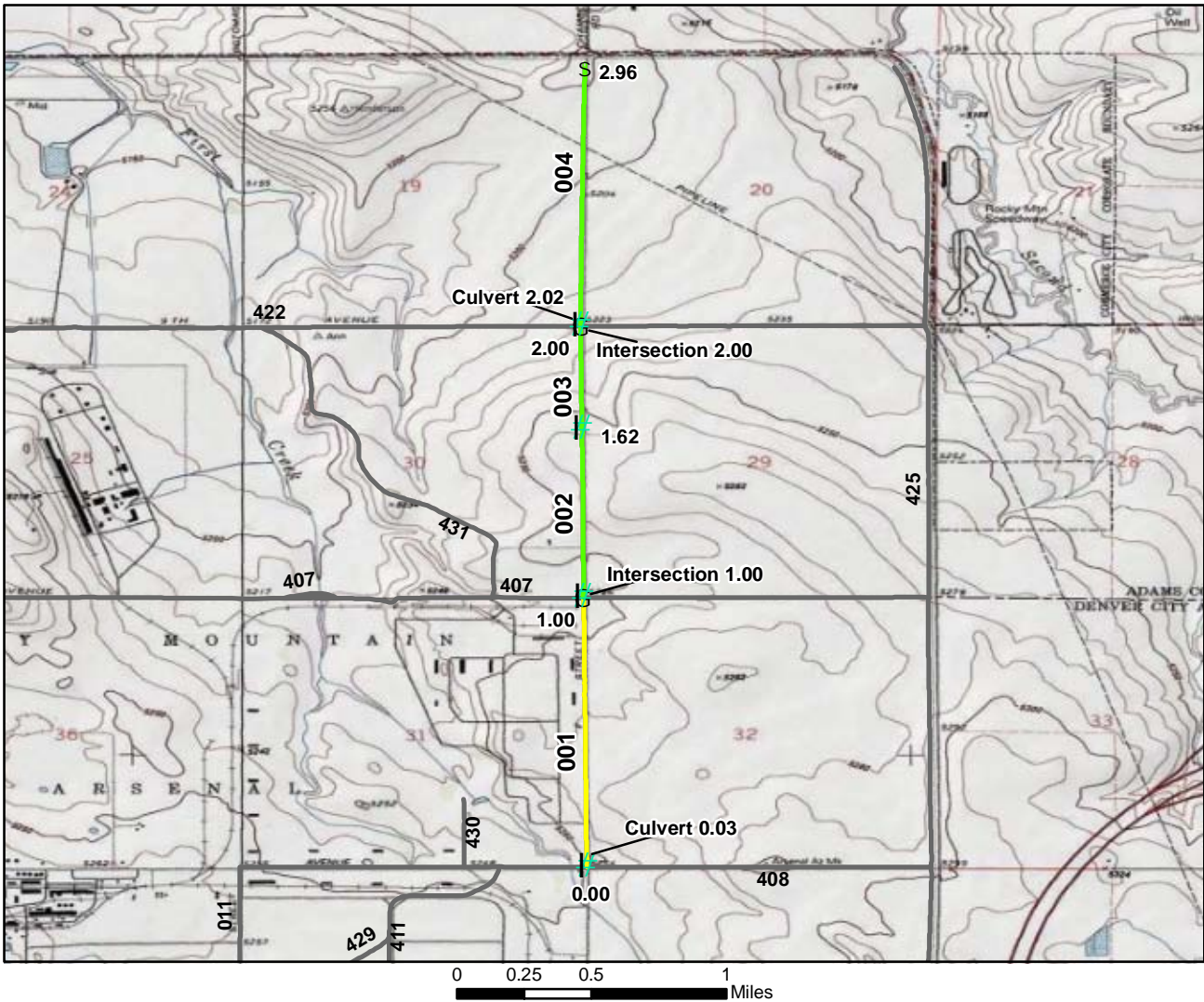
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ROUTE: 411 Igloo Storage Access Road TOTAL LENGTH: 1.34 Miles

ASSET:

RTE DESCRIPTION: From Southern Tram Route (Rte 010) to East 7th Avenue (Rte 408)

Section Number	001			
Section Length (miles)	1.34			
Inspection Date	10/22/2008			
Section Information				
Surface Type	Native			
Number of Lanes	1			
Roadway Width (feet)	10			
Roadway Condition Information				
Condition	Good			
Remaining Service Life (years)	7			
Cost Estimate	\$2500			
CRV	\$509300			



Excellent	Good	Fair	Poor	Failed
à Bridge	S Gate	! Culvert	⊕ Deficiency	
# Begin Section	/ Low Water Crossing	G Intersection	⚡ Railroad Crossing	@ Visitor Center
y Boat Ramp	â Fee Station	i Political Boundary	U Turnout/Parking	k Problem Area

3

ROUTE: 412 North 'F' Street TOTAL LENGTH: 2.98 Miles

ASSET: 10024546

RTE DESCRIPTION: From East 7th Avenue (Rte 408) to North FWS Boundary

Section Number	001	002	003	004
Section Length (miles)	1.00	0.62	0.38	0.97
Inspection Date	10/21/2008	10/21/2008	10/22/2008	10/22/2008
Section Information				
Surface Type	Asphalt	Native	Gravel	Gravel
Number of Lanes	2	2	1	1
Roadway Width (feet)	32	30	12	12
Roadway Condition Information				
Condition	Fair	Good	Good	Good
Remaining Service Life (years)	10	7	7	7
Cost Estimate	\$115100	\$1100	\$700	\$1700
CRV	\$1274500	\$235600	\$279200	\$712600



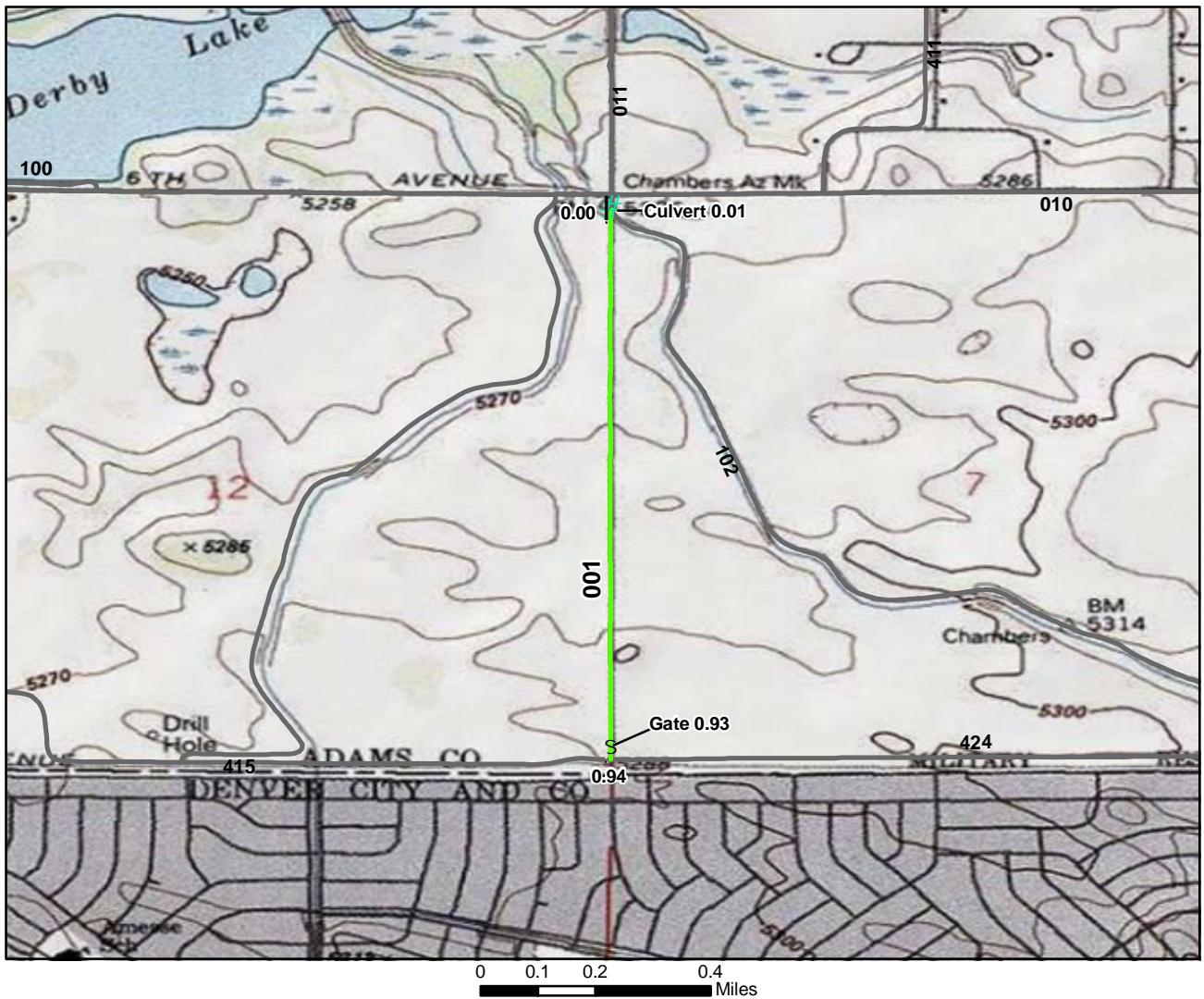
Excellent	Good	Fair	Poor	Failed
Bridge	Gate	Culvert	Deficiency	Visitor Center
Begin Section	Low Water Crossing	Intersection	Railroad Crossing	Problem Area
Boat Ramp	Fee Station	Political Boundary	Turnout/Parking	

3

ROUTE: 413 Section 8 Wetland Access Road TOTAL LENGTH: 0.95 Miles
 ASSET:

RTE DESCRIPTION: From Southern Tram Route (Rte 010) to South Perimeter Road (Rte 424)

Section Number	001			
Section Length (miles)	0.95			
Inspection Date	10/22/2008			
Section Information				
Surface Type	Primitive			
Number of Lanes	1			
Roadway Width (feet)	8			
Roadway Condition Information				
Condition	Good			
Remaining Service Life (years)	7			
Cost Estimate	\$400			
CRV	\$0			



	Excellent		Good		Fair		Poor		Failed		
à	Bridge	S	Gate	!	Culvert	⚠	Deficiency	Ⓜ	Railroad Crossing	@	Visitor Center
#	Begin Section	/	Low Water Crossing	G	Intersection	Ⓜ	Turnout/Parking	Ⓜ	Problem Area		
y	Boat Ramp	â	Fee Station		Political Boundary						

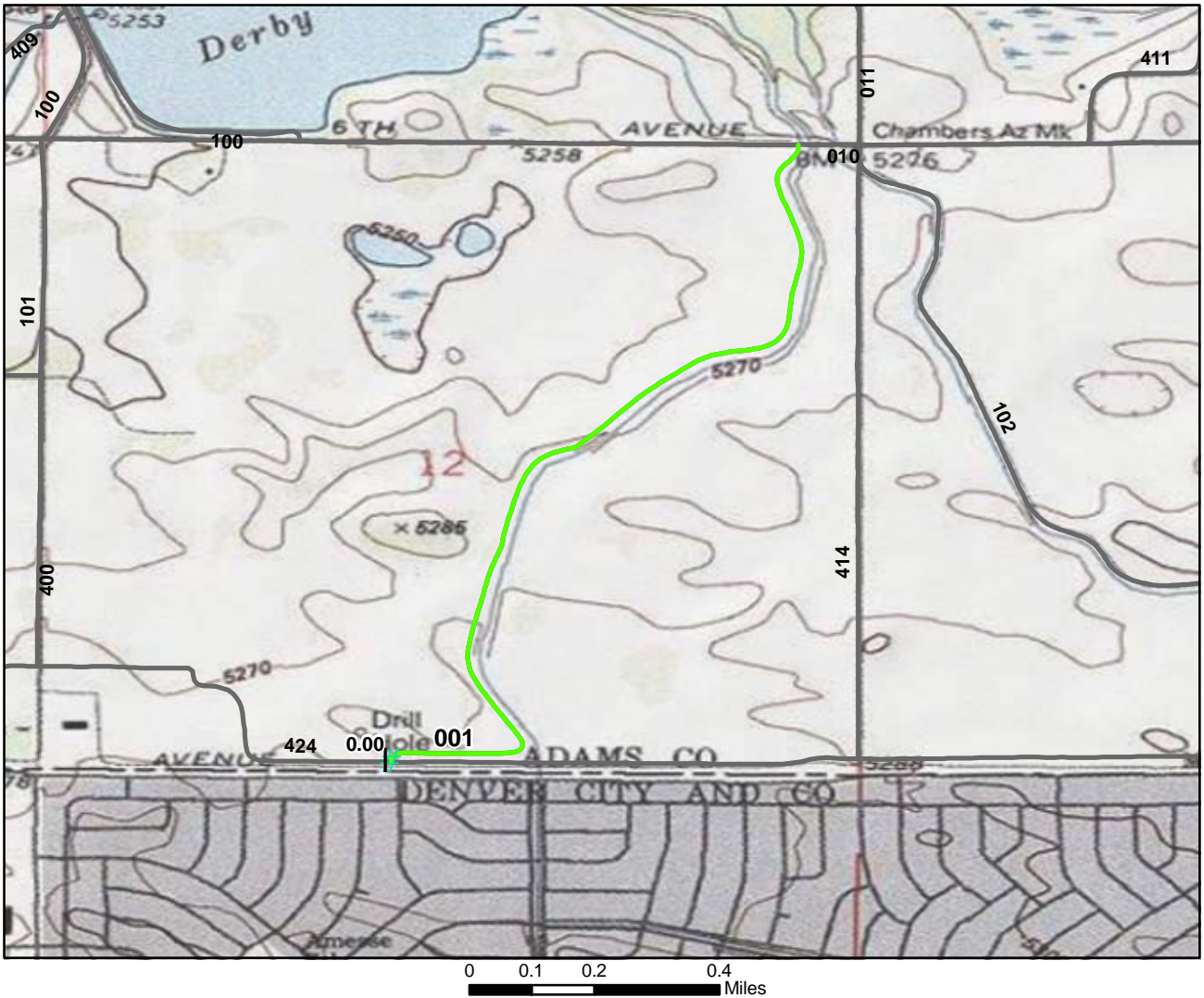
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ROUTE: 414 South 'E' Street TOTAL LENGTH: 0.95 Miles

ASSET: 10053194

RTE DESCRIPTION: From Highline Canal Loop (Rte 102) to South Perimeter Road (Rte 424)

Section Number	001			
Section Length (miles)	0.95			
Inspection Date	10/22/2008			
Section Information				
Surface Type	Native			
Number of Lanes	1			
Roadway Width (feet)	10			
Roadway Condition Information				
Condition	Good			
Remaining Service Life (years)	5			
Cost Estimate	\$1700			
CRV	\$361100			



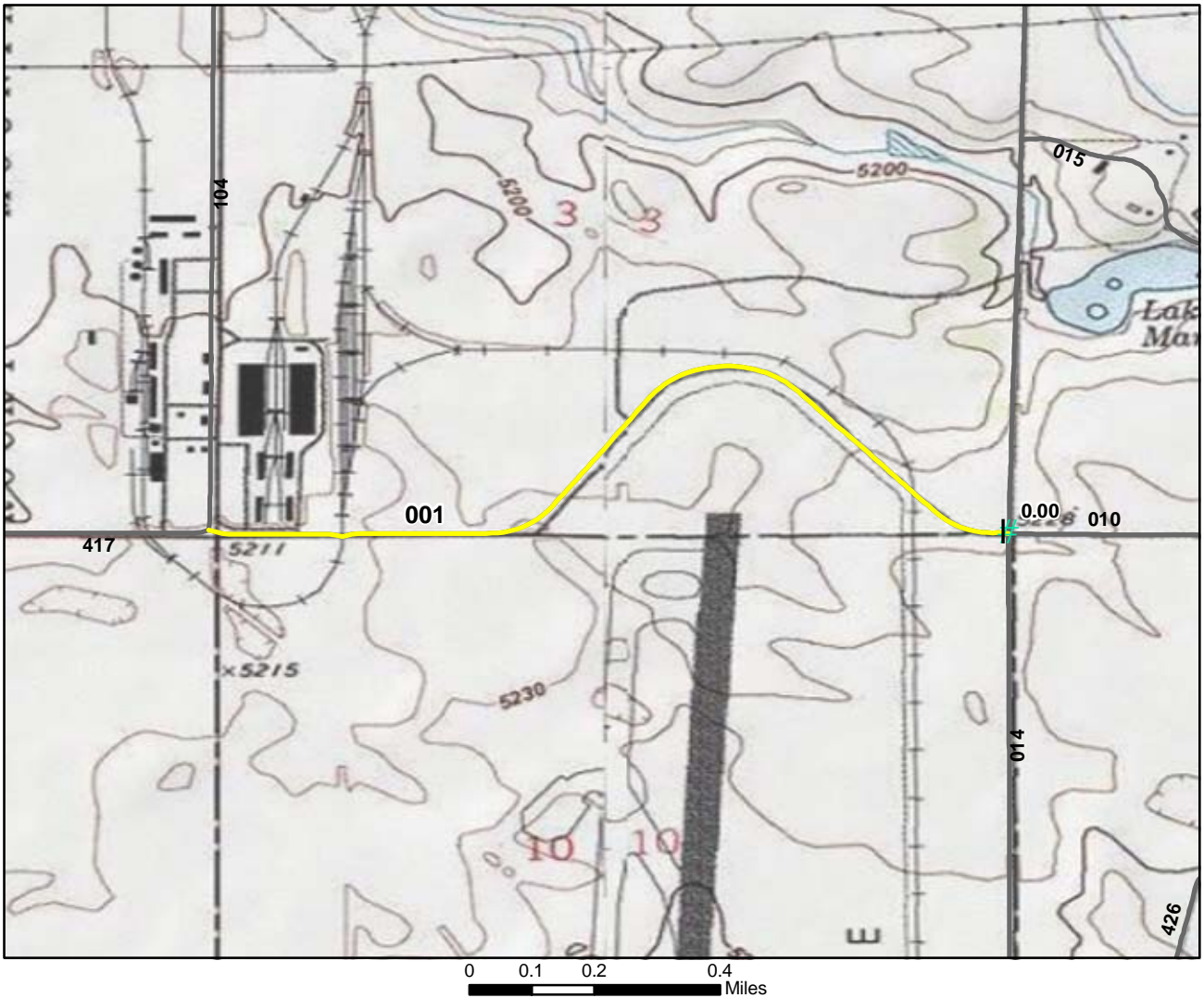
Excellent	Good	Fair	Poor	Failed
à Bridge	S Gate	! Culvert	⚠ Deficiency	
# Begin Section	/ Low Water Crossing	G Intersection	🚂 Railroad Crossing	@ Visitor Center
y Boat Ramp	â Fee Station	Political Boundary	U Turnout/Parking	k Problem Area

3

ROUTE: 415 Uvalda Access Road TOTAL LENGTH: 1.35 Miles
 ASSET: 10053194

RTE DESCRIPTION: From South Perimeter Road (Rte 424) to Southern Tram Route (Rte 010)

Section Number	001			
Section Length (miles)	1.35			
Inspection Date	10/22/2008			
Section Information				
Surface Type	Primitive			
Number of Lanes	1			
Roadway Width (feet)	8			
Roadway Condition Information				
Condition	Good			
Remaining Service Life (years)	5			
Cost Estimate	\$600			
CRV	\$0			



Excellent	Good	Fair	Poor	Failed
à Bridge	S Gate	! Culvert	⊕ Deficiency	@ Visitor Center
# Begin Section	/ Low Water Crossing	G Intersection	⚡ Railroad Crossing	Ⓜ Turnout/Parking
y Boat Ramp	â Fee Station	Political Boundary	Ⓜ Turnout/Parking	Ⓜ Problem Area

3

ROUTE: 416 6th Avenue Administrative Access Road TOTAL LENGTH: 1.22 Miles
 ASSET: 10059472

RTE DESCRIPTION: From Southern Tram Route (Rte 010) to South 'B' Street (Rte 104)

Section Number	001				
Section Length (miles)	1.22				
Inspection Date	10/21/2008				
Section Information					
Surface Type	Asphalt				
Number of Lanes	2				
Roadway Width (feet)	22				
Roadway Condition Information					
Condition	Fair				
Remaining Service Life (years)	10				
Cost Estimate	\$140400				
CRV	\$1554900				



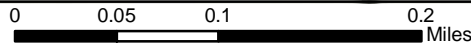
Excellent	Good	Fair	Poor	Failed
à Bridge	S Gate	! Culvert	⊕ Deficiency	@ Visitor Center
# Begin Section	/ Low Water Crossing	G Intersection	⚡ Railroad Crossing	Ⓜ Turnout/Parking
y Boat Ramp	â Fee Station	Political Boundary	Ⓜ Turnout/Parking	k Problem Area

ROUTE: 417 Section 4 Perimeter Road TOTAL LENGTH: 1.68 Miles

ASSET: 10053195

RTE DESCRIPTION: From 'B' Street (Rte 104) to West 7th Avenue (Rte 401)

Section Number	001	002		
Section Length (miles)	0.70	0.98		
Inspection Date	10/21/2008	10/21/2008		
Section Information				
Surface Type	Primitive	Primitive		
Number of Lanes	1	1		
Roadway Width (feet)	8	8		
Roadway Condition Information				
Condition	Good	Good		
Remaining Service Life (years)	7	5		
Cost Estimate	\$300	\$500		
CRV	\$0	\$0		



Excellent	Good	Fair	Poor	Failed
à Bridge	S Gate	! Culvert	⊕ Deficiency	@ Visitor Center
# Begin Section	/ Low Water Crossing	G Intersection	⚡ Railroad Crossing	Ⓜ Turnout/Parking
y Boat Ramp	â Fee Station	i Political Boundary	Ⓜ Turnout/Parking	k Problem Area

ROUTE: 418 Bison Unloading Road

TOTAL LENGTH: 0.23 Miles

ASSET:

RTE DESCRIPTION: From 'C' Street (Rte 105) to end

Section Number	001				
Section Length (miles)	0.23				
Inspection Date	10/21/2008				
Section Information					
Surface Type	Gravel				
Number of Lanes	1				
Roadway Width (feet)	12				
Roadway Condition Information					
Condition	Good				
Remaining Service Life (years)	7				
Cost Estimate	\$400				
CRV	\$169000				



Excellent	Good	Fair	Poor	Failed
à Bridge	S Gate	! Culvert	⊕ Deficiency	
# Begin Section	/ Low Water Crossing	G Intersection	⚡ Railroad Crossing	@ Visitor Center
y Boat Ramp	â Fee Station	Political Boundary	U Turnout/Parking	k Problem Area

3

ROUTE: 419 Bison Watering Point Access Road TOTAL LENGTH: 0.25 Miles

ASSET:

RTE DESCRIPTION: From 'C' Street (Rte 105) to end

Section Number	001				
Section Length (miles)	0.25				
Inspection Date	10/21/2008				
Section Information					
Surface Type	Primitive				
Number of Lanes	1				
Roadway Width (feet)	8				
Roadway Condition Information					
Condition	Fair				
Remaining Service Life (years)	3				
Cost Estimate	\$200				
CRV	\$0				



0 0.03 0.06 0.12 Miles

Excellent	Good	Fair	Poor	Failed
à Bridge	S Gate	! Culvert	⊕ Deficiency	
# Begin Section	/ Low Water Crossing	G Intersection	⚡ Railroad Crossing	@ Visitor Center
y Boat Ramp	â Fee Station	i Political Boundary	U Turnout/Parking	k Problem Area

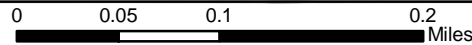
3

ROUTE: 420 Bison Weatherstation Access Road TOTAL LENGTH: 0.07 Miles

ASSET:

RTE DESCRIPTION: From 'C' Street (Rte 105) to end

Section Number	001			
Section Length (miles)	0.07			
Inspection Date	10/21/2008			
Section Information				
Surface Type	Asphalt			
Number of Lanes	1			
Roadway Width (feet)	12			
Roadway Condition Information				
Condition	Poor			
Remaining Service Life (years)	5			
Cost Estimate	\$44000			
CRV	\$89200			



Excellent	Good	Fair	Poor	Failed
à Bridge	S Gate	! Culvert	⊕ Deficiency	
# Begin Section	/ Low Water Crossing	G Intersection	⚡ Railroad Crossing	@ Visitor Center
y Boat Ramp	â Fee Station	i Political Boundary	U Turnout/Parking	k Problem Area

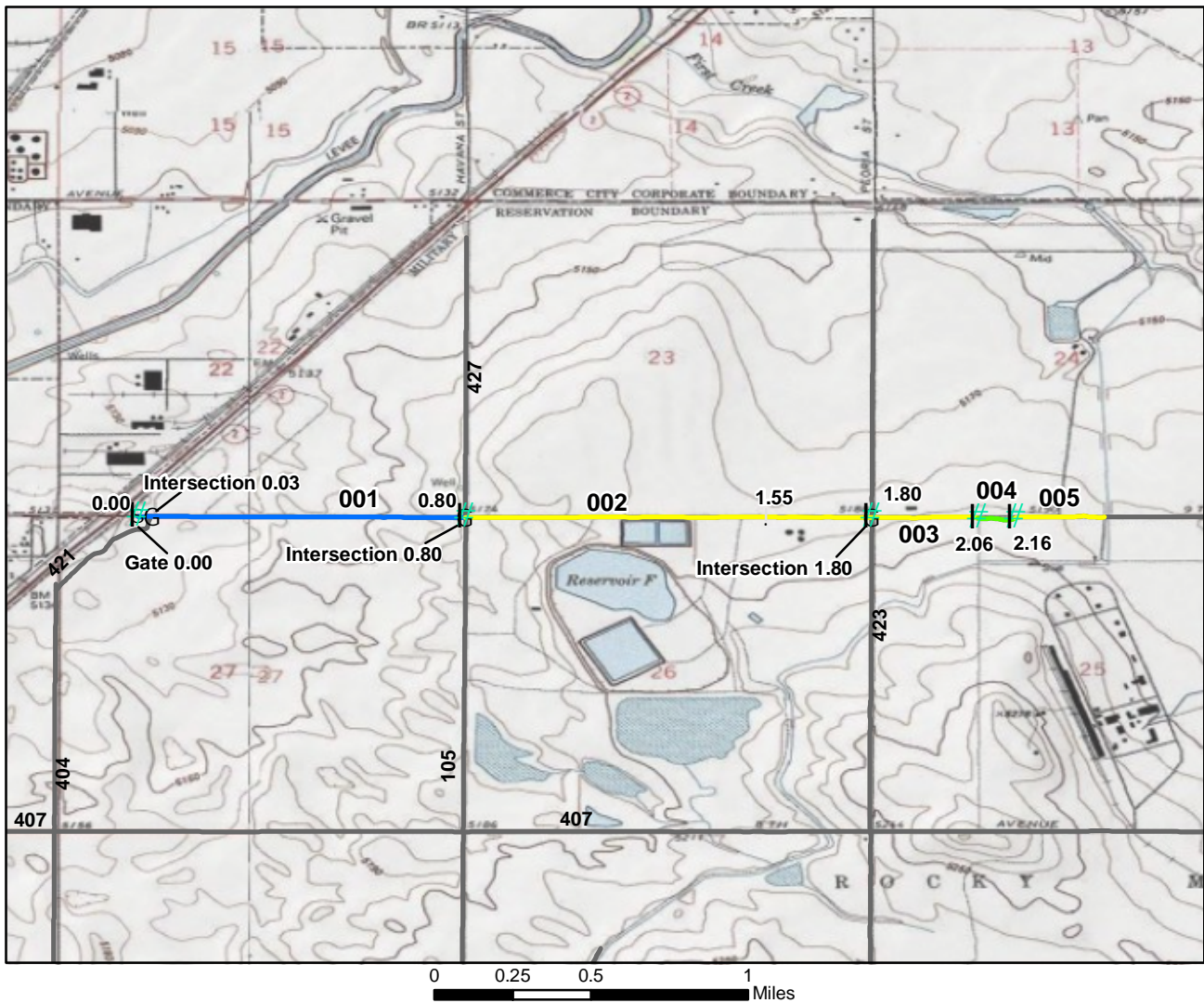
3

ROUTE: 421 Section 27 Perimeter Road TOTAL LENGTH: 0.35 Miles

ASSET:

RTE DESCRIPTION: From 9th Avenue (Rte 422) to North 'B' Street (Rte 404)

Section Number	001				
Section Length (miles)	0.35				
Inspection Date	10/21/2008				
Section Information					
Surface Type	Primitive				
Number of Lanes	1				
Roadway Width (feet)	8				
Roadway Condition Information					
Condition	Good				
Remaining Service Life (years)	5				
Cost Estimate	\$200				
CRV	\$0				



Excellent	Good	Fair	Poor	Failed
Bridge	Gate	Culvert	Deficiency	3
Begin Section	Low Water Crossing	Intersection	Railroad Crossing	
Boat Ramp	Fee Station	Political Boundary	Turnout/Parking	
			Visitor Center	Problem Area

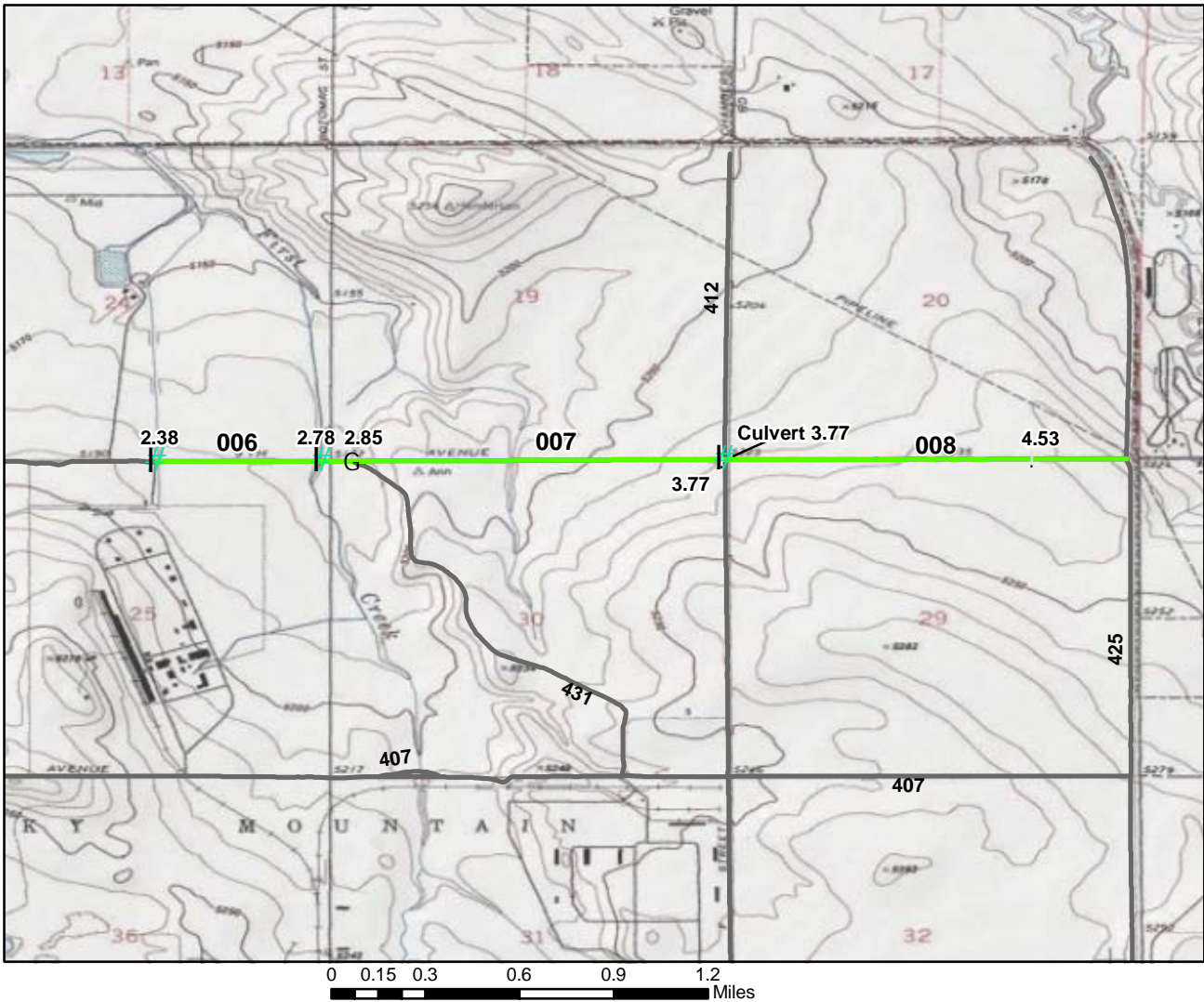
ROUTE: 422 9th Avenue

TOTAL LENGTH: 4.75 Miles

ASSET: 10057849

RTE DESCRIPTION: From West FWS Boundary to East Perimeter Road (Rte 425)

Section Number	001	002	003	004	005
Section Length (miles)	0.80	1.00	0.26	0.09	0.22
Inspection Date	10/21/2008	10/21/2008	10/21/2008	10/21/2008	10/21/2008
Section Information					
Surface Type	Gravel	Asphalt	Asphalt	Native	Asphalt
Number of Lanes	2	2	2	1	2
Roadway Width (feet)	18	30	30	12	30
Roadway Condition Information					
Condition	Excellent	Fair	Fair	Good	Fair
Remaining Service Life (years)	9	8	8	6	8
Cost Estimate	\$0	\$115100	\$29900	\$200	\$25300
CRV	\$587700	\$1274500	\$331400	\$34200	\$280400



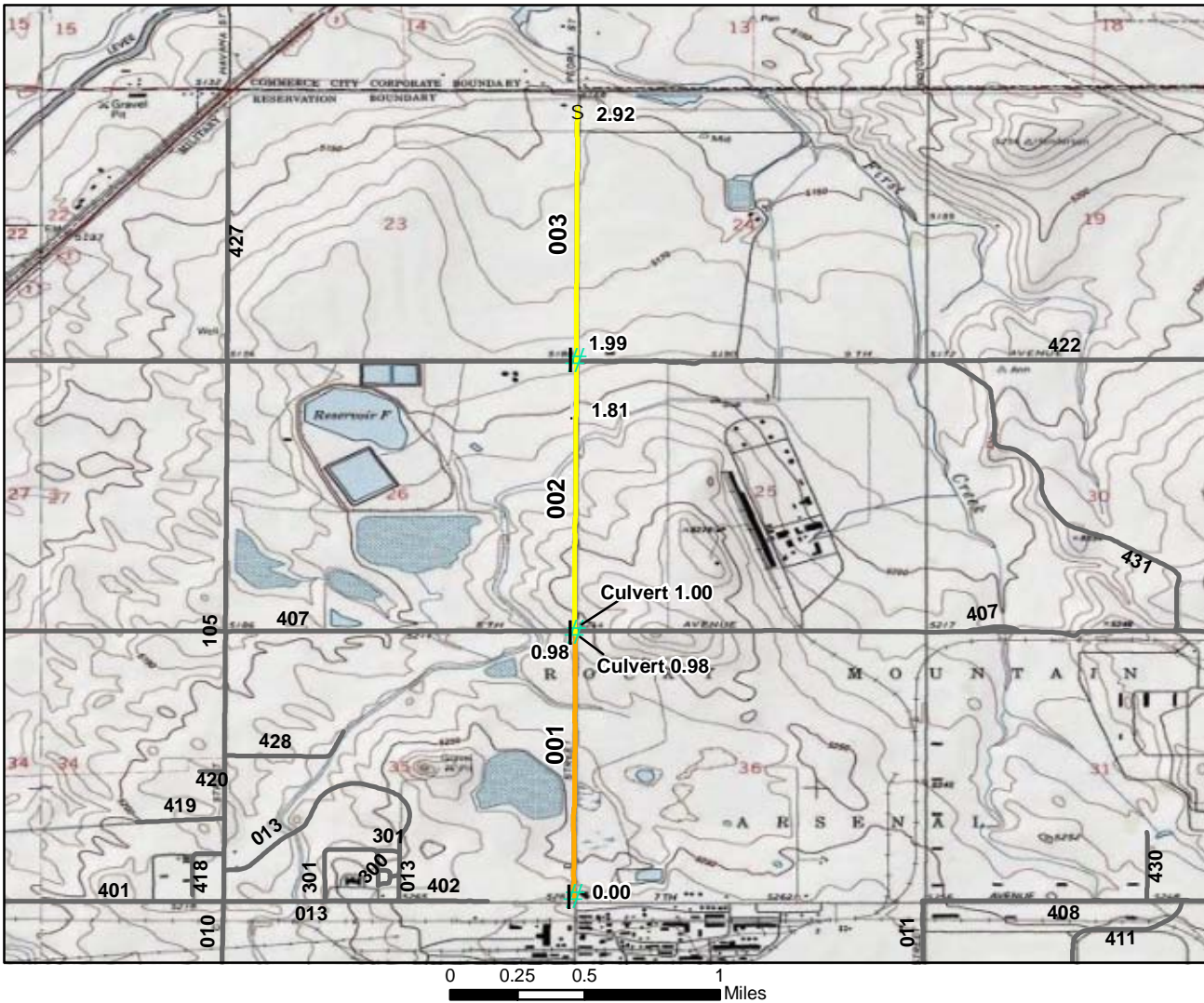
Excellent	Good	Fair	Poor	Failed
à Bridge	S Gate	! Culvert	⚠ Deficiency	
# Begin Section	/ Low Water Crossing	G Intersection	🚂 Railroad Crossing	@ Visitor Center
y Boat Ramp	â Fee Station	i Political Boundary	U Turnout/Parking	k Problem Area

ROUTE: 422 9th Avenue TOTAL LENGTH: 4.75 Miles

ASSET: 10057849

RTE DESCRIPTION: From West FWS Boundary to East Perimeter Road (Rte 425)

	006	007	008
Section Number	006	007	008
Section Length (miles)	0.41	0.99	0.99
Inspection Date	10/21/2008	10/21/2008	10/21/2008
Section Information			
Surface Type	Native	Native	Gravel
Number of Lanes	1	1	1
Roadway Width (feet)	8	8	10
Roadway Condition Information			
Condition	Good	Good	Good
Remaining Service Life (years)	7	7	7
Cost Estimate	\$800	\$1800	\$1700
CRV	\$155800	\$376300	\$727300



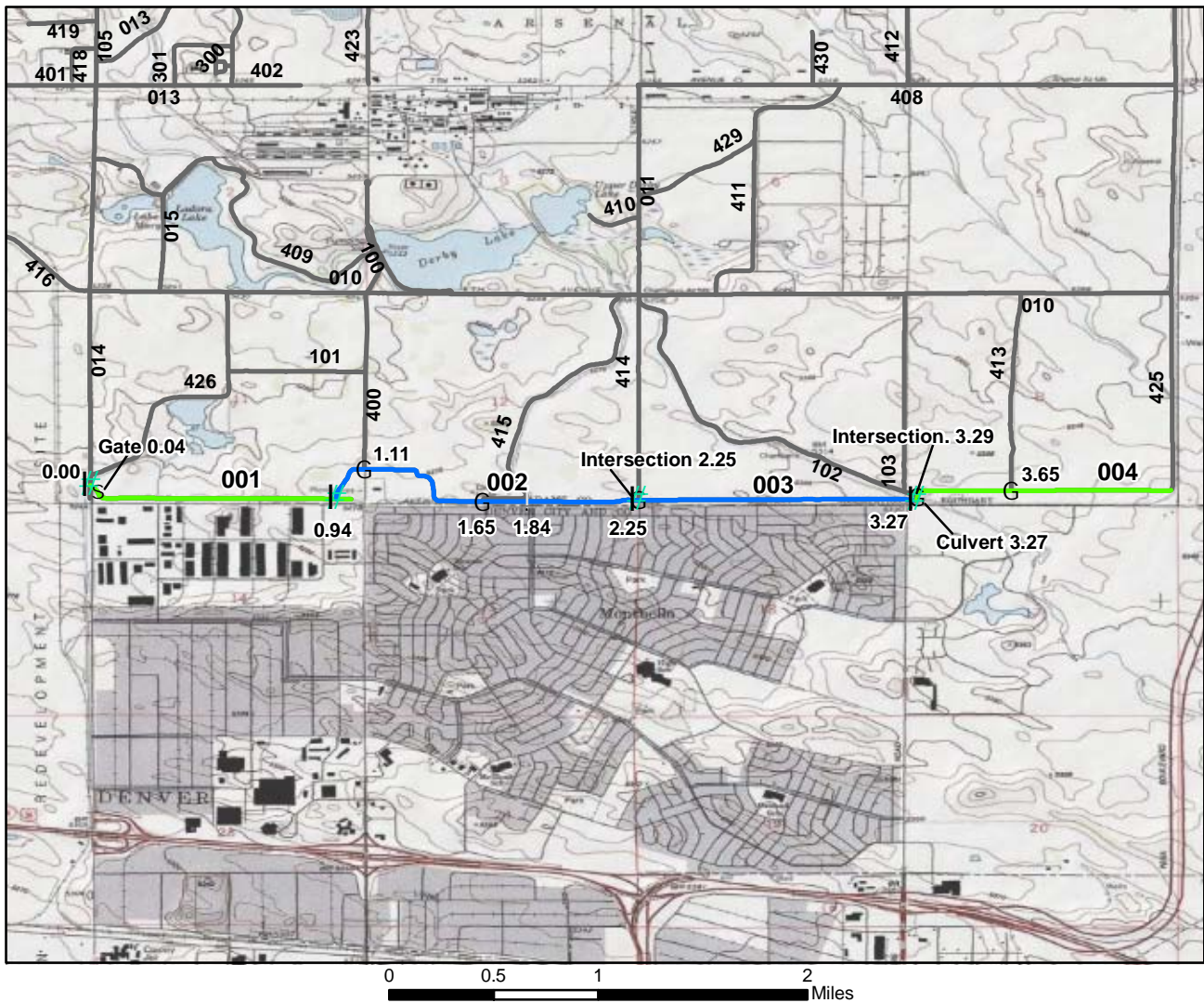
Excellent	Good	Fair	Poor	Failed	
Bridge	Gate	Culvert	Deficiency	3	
Begin Section	Low Water Crossing	Intersection	Railroad Crossing		Visitor Center
Boat Ramp	Fee Station	Political Boundary	Turnout/Parking		Problem Area

ROUTE: 423 North 'D' Street TOTAL LENGTH: 2.94 Miles

ASSET:

RTE DESCRIPTION: From 7th Avenue East of administrative area to North FWS Boundary

	001	002	003	
Section Number	001	002	003	
Section Length (miles)	0.98	1.01	0.95	
Inspection Date	10/22/2008	10/22/2008	10/22/2008	
Section Information				
Surface Type	Asphalt	Asphalt	Asphalt	
Number of Lanes	2	2	2	
Roadway Width (feet)	30	24	22	
Roadway Condition Information				
Condition	Poor	Fair	Fair	
Remaining Service Life (years)	6	10	10	
Cost Estimate	\$615300	\$116200	\$109300	
CRV	\$1249000	\$1287200	\$1210800	



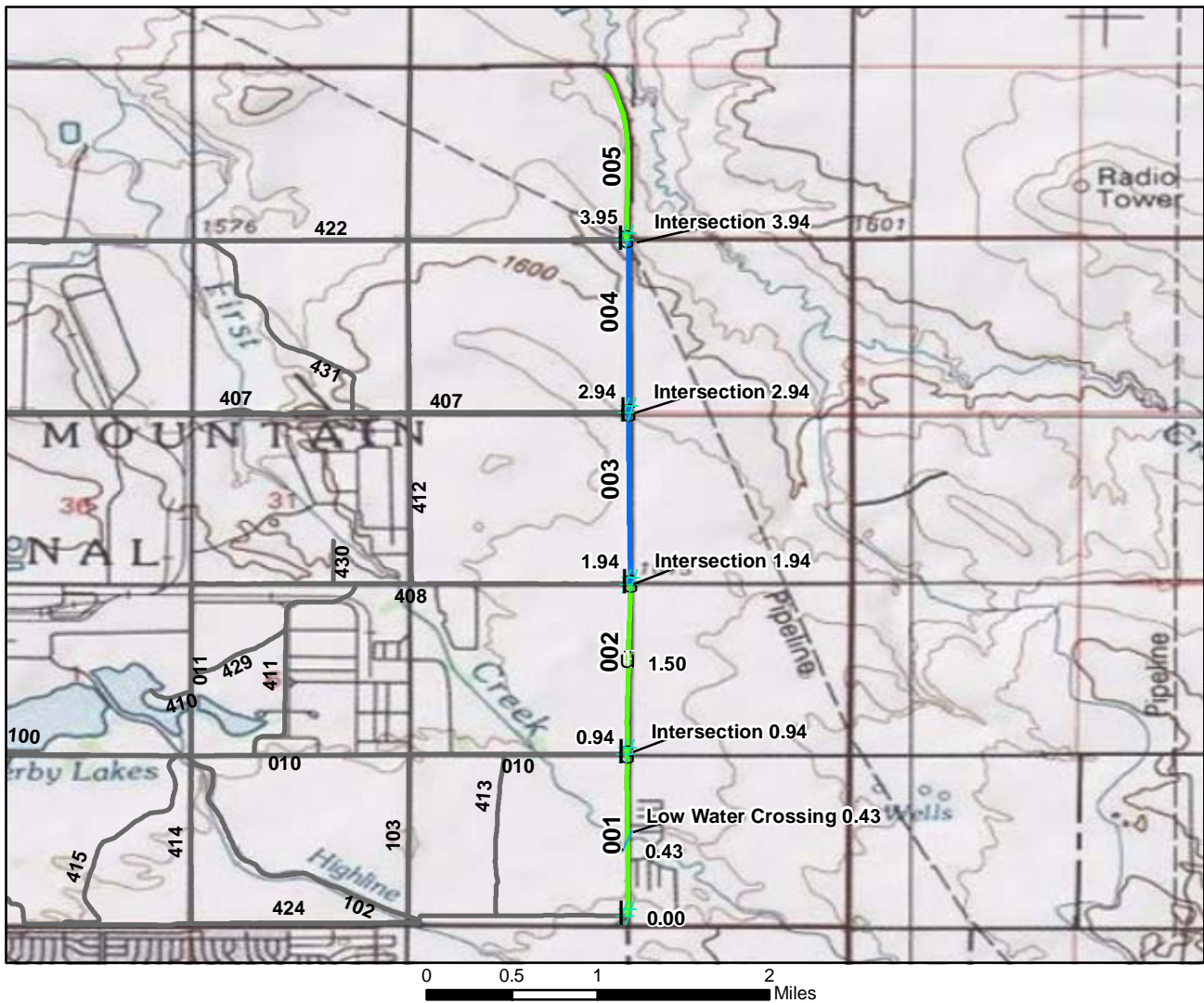
Excellent	Good	Fair	Poor	Failed	
Bridge	Gate	Culvert	Deficiency	3	
Begin Section	Low Water Crossing	Intersection	Railroad Crossing		Visitor Center
Boat Ramp	Fee Station	Political Boundary	Turnout/Parking		Problem Area

ROUTE: 424 South Perimeter Road TOTAL LENGTH: 4.31 Miles

ASSET: 10053195

RTE DESCRIPTION: From South Entrance Road (Rte 014) to East Perimeter Road (Rte 425)

	001	002	003	004
Section Number	001	002	003	004
Section Length (miles)	0.99	1.31	1.02	0.98
Inspection Date	10/23/2008	10/23/2008	10/23/2008	10/23/2008
Section Information				
Surface Type	Native	Gravel	Native	Native
Number of Lanes	1	1	1	1
Roadway Width (feet)	10	10	10	10
Roadway Condition Information				
Condition	Good	Excellent	Excellent	Good
Remaining Service Life (years)	7	9	9	5
Cost Estimate	\$1800	\$0	\$0	\$1800
CRV	\$376300	\$962400	\$387700	\$372500



	Excellent		Good		Fair		Poor		Failed		
	Bridge		Gate		Culvert		Deficiency		Railroad Crossing		Visitor Center
	Begin Section		Low Water Crossing		Intersection		Turnout/Parking		Problem Area		
	Boat Ramp		Fee Station		Political Boundary						

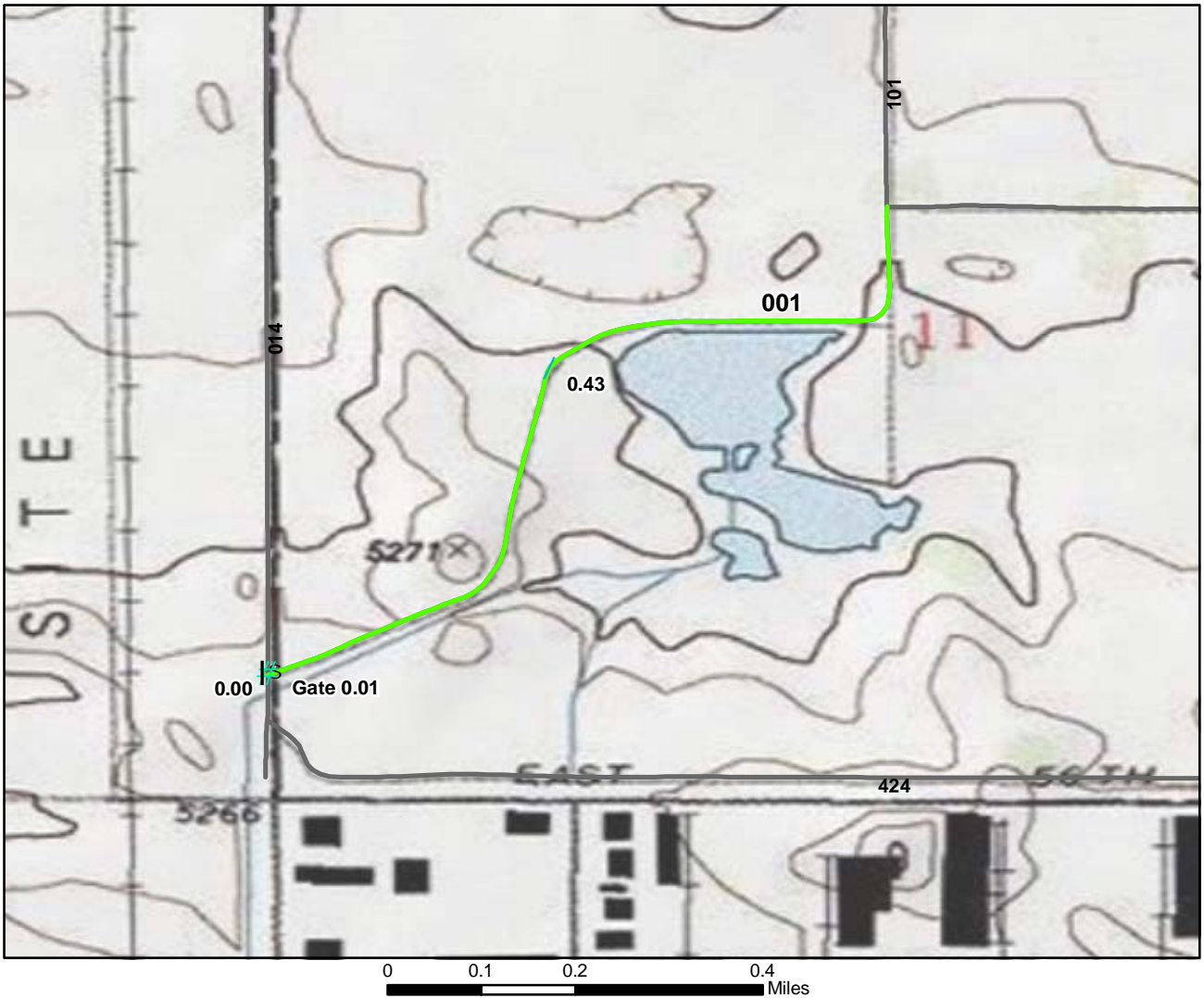
3

ROUTE: 425 East Perimeter Road TOTAL LENGTH: 4.92 Miles

ASSET: 10053192

RTE DESCRIPTION: From South Perimeter Road (Rte 424) to North FWS Boundary

Section Number	001	002	003	004	005
Section Length (miles)	0.94	0.99	1.00	1.01	0.97
Inspection Date	10/23/2008	10/23/2008	10/23/2008	10/23/2008	10/23/2008
Section Information					
Surface Type	Native	Native	Native	Native	Native
Number of Lanes	1	1	1	1	1
Roadway Width (feet)	10	10	10	10	10
Roadway Condition Information					
Condition	Good	Good	Excellent	Excellent	Good
Remaining Service Life (years)	7	7	9	9	7
Cost Estimate	\$1700	\$1800	\$0	\$0	\$1800
CRV	\$357300	\$376300	\$380100	\$383900	\$368700



Excellent	Good	Fair	Poor	Failed
à Bridge	S Gate	! Culvert	⊕ Deficiency	
# Begin Section	/ Low Water Crossing	G Intersection	⚡ Railroad Crossing	@ Visitor Center
y Boat Ramp	â Fee Station	Political Boundary	U Turnout/Parking	k Problem Area

3

ROUTE: 426 Havana Ponds Access Road TOTAL LENGTH: 0.85 Miles
 ASSET: 10053194

RTE DESCRIPTION: From South Perimeter Road (Rte 424) to Quad Loop Road (Rte 101)

Section Number	001			
Section Length (miles)	0.85			
Inspection Date	10/23/2008			
Section Information				
Surface Type	Native			
Number of Lanes	1			
Roadway Width (feet)	10			
Roadway Condition Information				
Condition	Good			
Remaining Service Life (years)	7			
Cost Estimate	\$1600			
CRV	\$323000			



Excellent	Good	Fair	Poor	Failed
à Bridge	S Gate	! Culvert	⊕ Deficiency	@ Visitor Center
# Begin Section	/ Low Water Crossing	G Intersection	⚡ Railroad Crossing	Ⓜ Turnout/Parking
y Boat Ramp	â Fee Station	Political Boundary	Ⓜ Turnout/Parking	k Problem Area

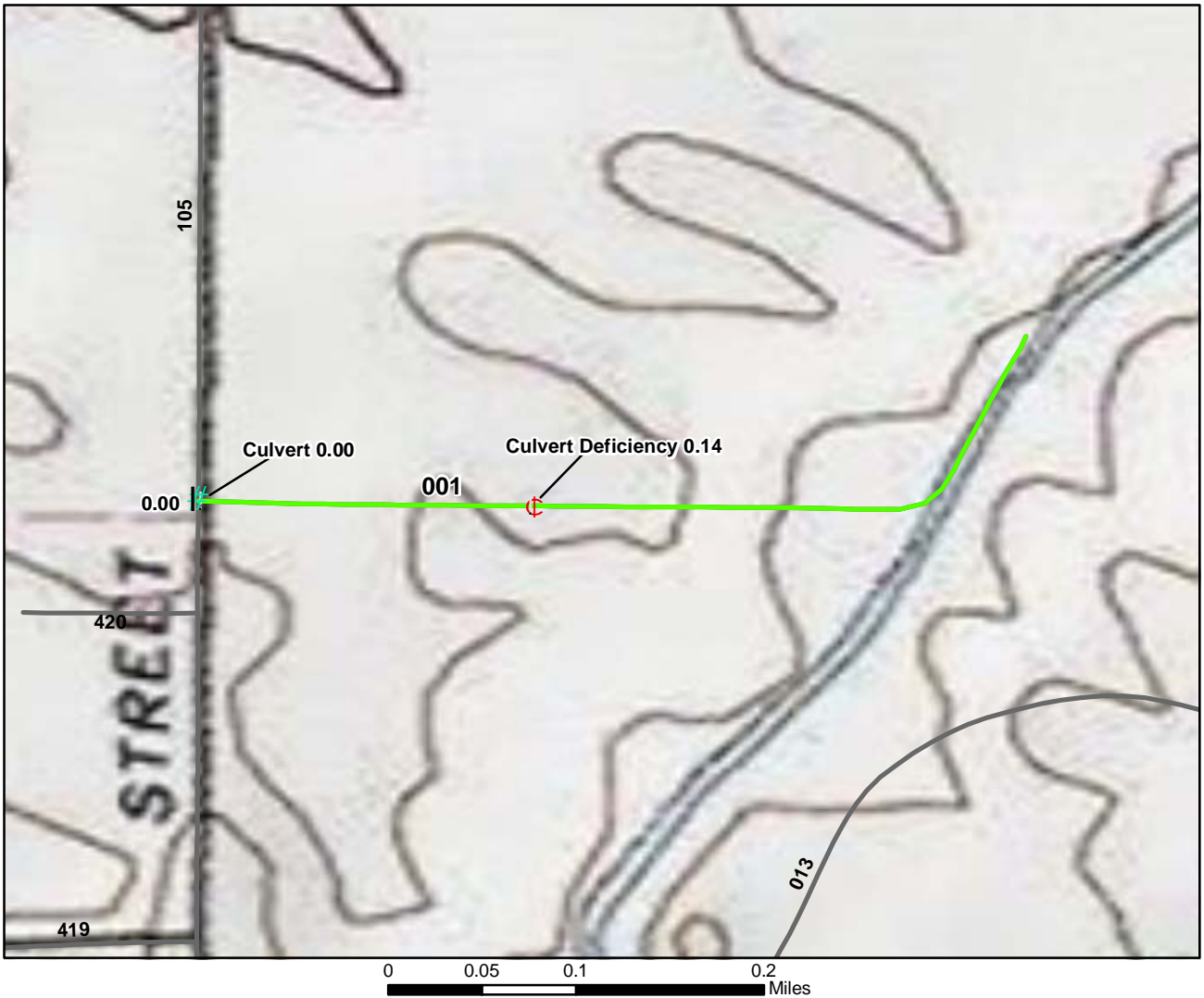
3

ROUTE: 427 North 'C' Street TOTAL LENGTH: 0.89 Miles

ASSET: 10059011

RTE DESCRIPTION: From 'C' street (Rte 105) to North FWS Boundary

Section Number	001			
Section Length (miles)	0.89			
Inspection Date	10/23/2008			
Section Information				
Surface Type	Gravel			
Number of Lanes	1			
Roadway Width (feet)	10			
Roadway Condition Information				
Condition	Excellent			
Remaining Service Life (years)	9			
Cost Estimate	\$0			
CRV	\$653800			



Excellent	Good	Fair	Poor	Failed
Bridge	Gate	Culvert	Deficiency	Visitor Center
Begin Section	Low Water Crossing	Intersection	Railroad Crossing	Turnout/Parking
Boat Ramp	Fee Station	Political Boundary	Problem Area	

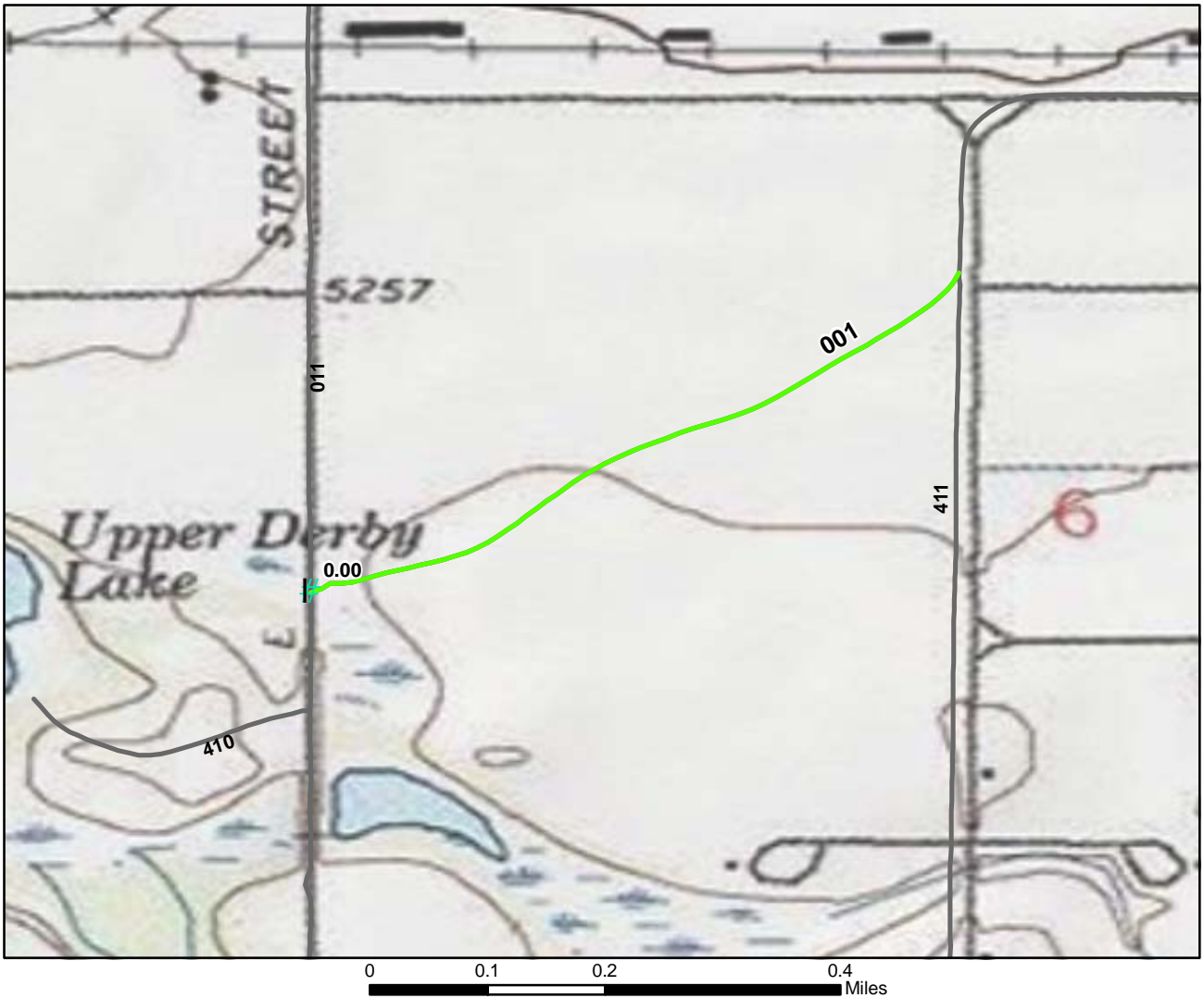
3

ROUTE: 428 Zero Discharge Facility Access Road TOTAL LENGTH: 0.4 Miles

ASSET:

RTE DESCRIPTION: From 'C' Street (Rte 105) to Zero Discharge Facility

Section Number	001				
Section Length (miles)	0.40				
Inspection Date	10/23/2008				
Section Information					
Surface Type	Gravel				
Number of Lanes	1				
Roadway Width (feet)	12				
Roadway Condition Information					
Condition	Good				
Remaining Service Life (years)	7				
Cost Estimate	\$700				
CRV	\$293900				



Excellent	Good	Fair	Poor	Failed
à Bridge	S Gate	! Culvert	⊕ Deficiency	@ Visitor Center
# Begin Section	/ Low Water Crossing	G Intersection	⚡ Railroad Crossing	Ⓜ Turnout/Parking
y Boat Ramp	â Fee Station	Political Boundary	Ⓜ Turnout/Parking	k Problem Area

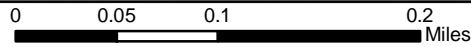
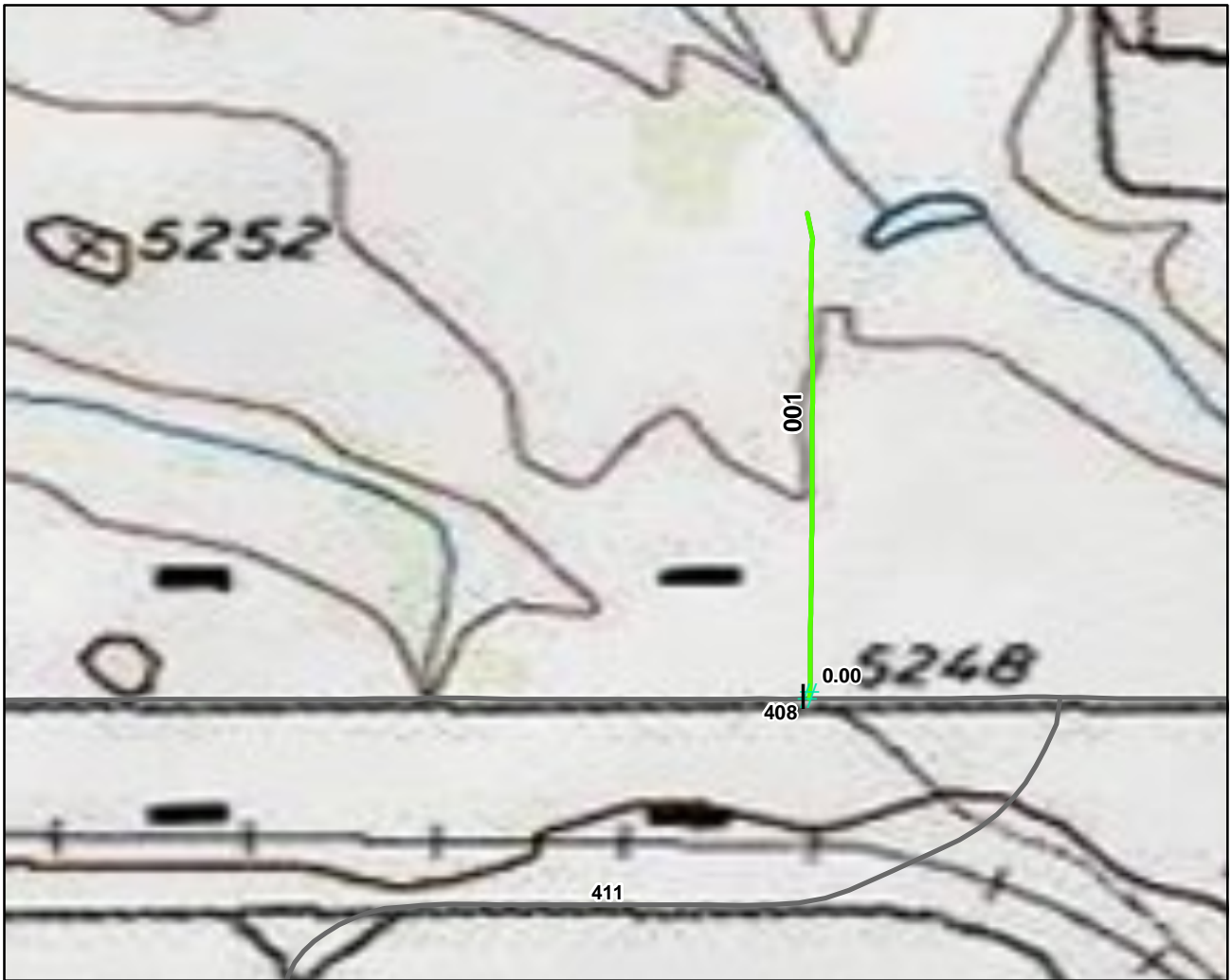
3

ROUTE: 429 Outer Tour Loop Segment 5 TOTAL LENGTH: 0.51 Miles

ASSET: 10059468

RTE DESCRIPTION: From 'E' Street (Rte 011) to Igloo Storage Access Road (Rte 411)

Section Number	001				
Section Length (miles)	0.51				
Inspection Date	10/22/2008				
Section Information					
Surface Type	Primitive				
Number of Lanes	1				
Roadway Width (feet)	8				
Roadway Condition Information					
Condition	Good				
Remaining Service Life (years)	7				
Cost Estimate	\$200				
CRV	\$0				



Excellent	Good	Fair	Poor	Failed
Bridge	Gate	Culvert	Deficiency	
Begin Section	Low Water Crossing	Intersection	Railroad Crossing	Visitor Center
Boat Ramp	Fee Station	Political Boundary	Turnout/Parking	Problem Area

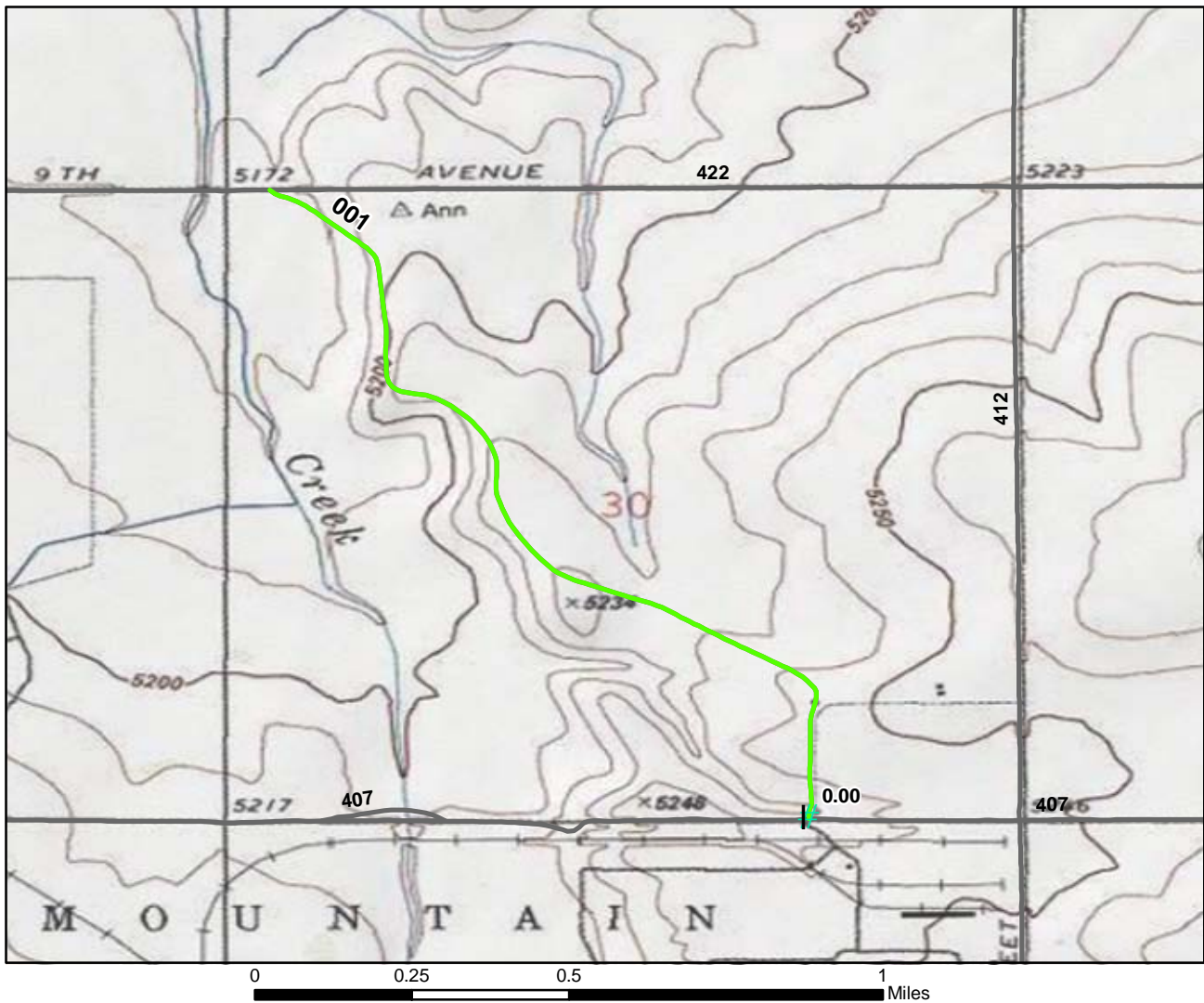
3

ROUTE: 430 Outer Tour Loop Segment 6 TOTAL LENGTH: 0.25 Miles

ASSET: 10059467

RTE DESCRIPTION: From East 7th Avenue (Rte 408) to end of route

Section Number	001				
Section Length (miles)	0.25				
Inspection Date	10/23/2008				
Section Information					
Surface Type	Primitive				
Number of Lanes	1				
Roadway Width (feet)	8				
Roadway Condition Information					
Condition	Good				
Remaining Service Life (years)	5				
Cost Estimate	\$100				
CRV	\$0				



Excellent	Good	Fair	Poor	Failed
Bridge	Gate	Culvert	Deficiency	Visitor Center
Begin Section	Low Water Crossing	Intersection	Railroad Crossing	Problem Area
Boat Ramp	Fee Station	Political Boundary	Turnout/Parking	

ROUTE: 431 Outer Tour Loop Segment 7 TOTAL LENGTH: 1.34 Miles

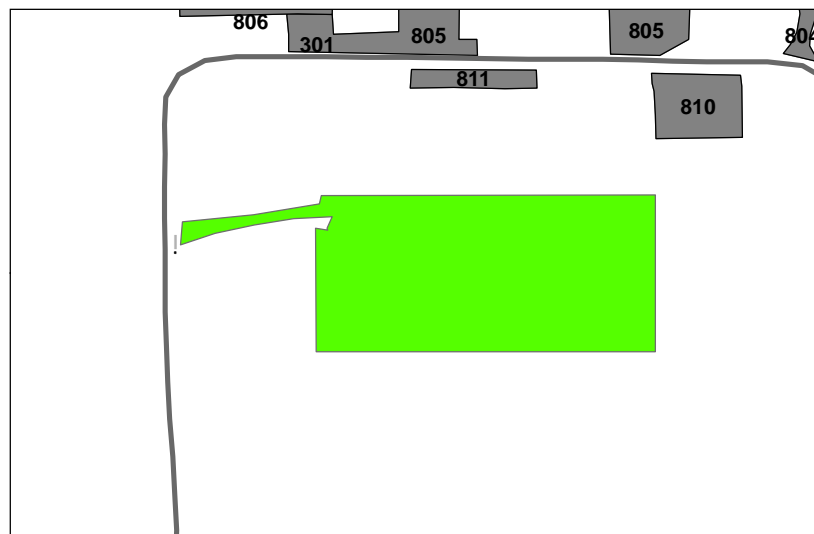
ASSET: 10059473

RTE DESCRIPTION: From 8th Avenue (Rte 407) to 9th Avenue (Rte 422)

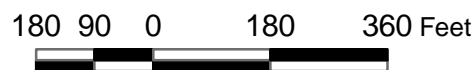
Section Number	001				
Section Length (miles)	1.34				
Inspection Date	10/23/2008				
Section Information					
Surface Type	Primitive				
Number of Lanes	1				
Roadway Width (feet)	8				
Roadway Condition Information					
Condition	Good				
Remaining Service Life (years)	7				
Cost Estimate	\$600				
CRV	\$0				

Route 800: Building 111 Parking

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10058012	10/23/2008	Asphalt	99808	Good	\$19700

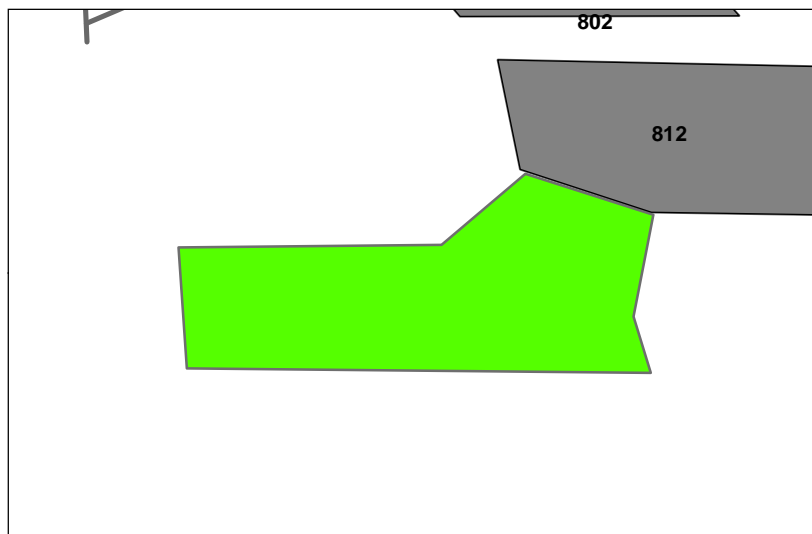


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Route 801: Building 112 Parking

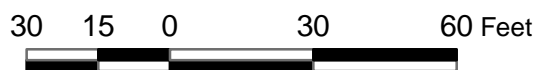
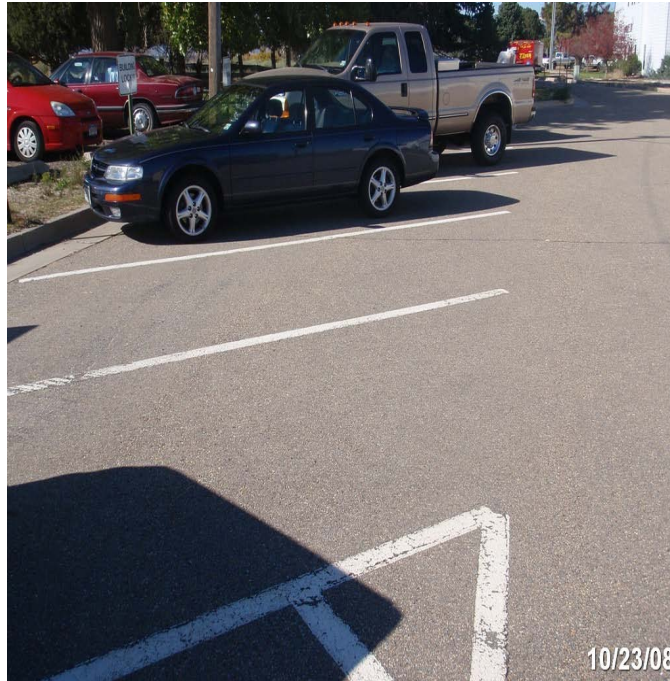
Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10058024	10/23/2008	Asphalt	6956	Good	\$1400



3

Route 802: Building 130 South Parking

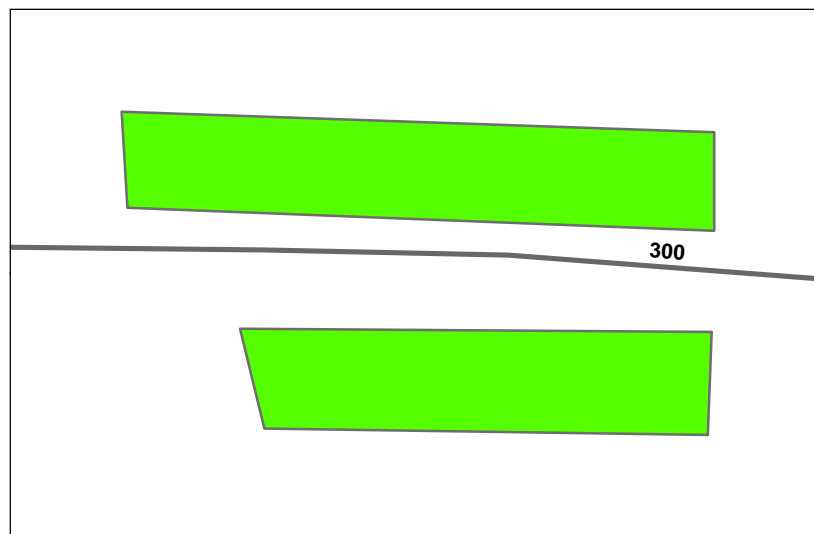
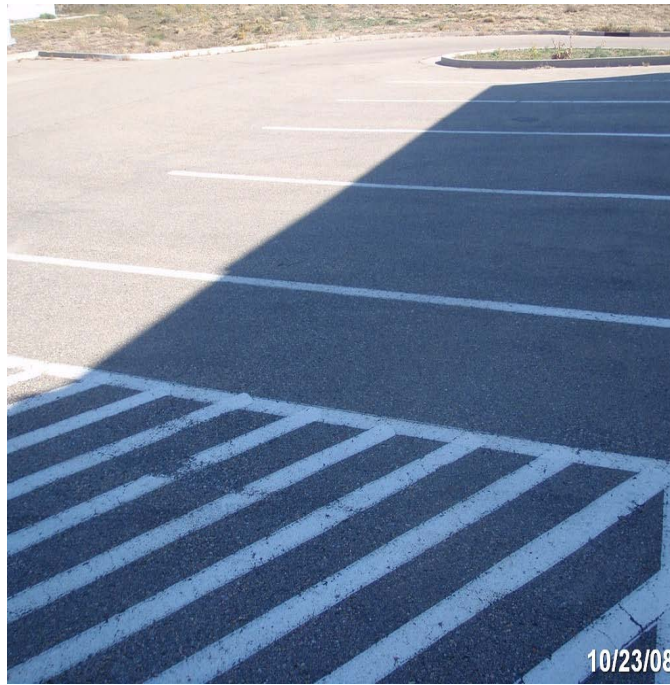
Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
	10/23/2008	Asphalt	1966	Good	\$400



3

Route 803: Building 130 North Parking

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
	10/23/2008	Asphalt	3053	Good	\$600

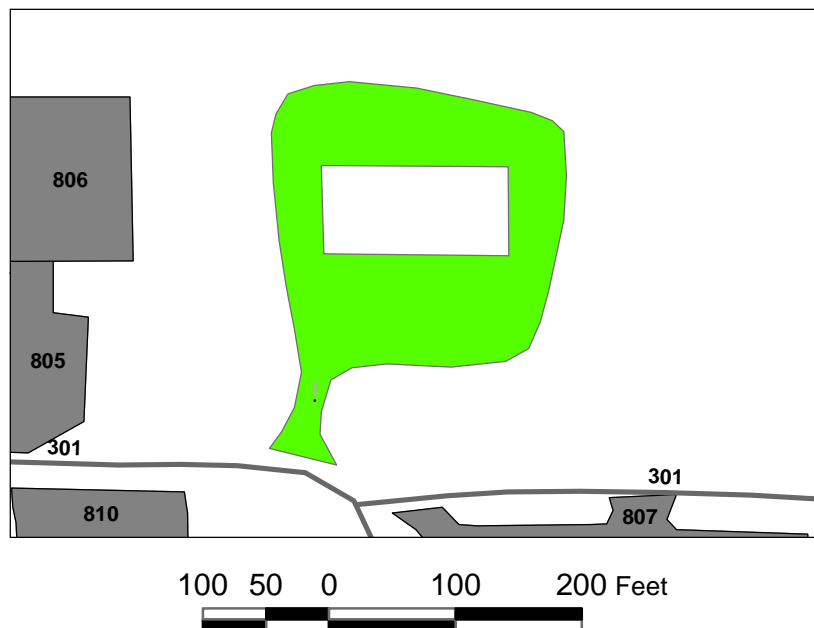


3



Route 804: Building 181 Parking

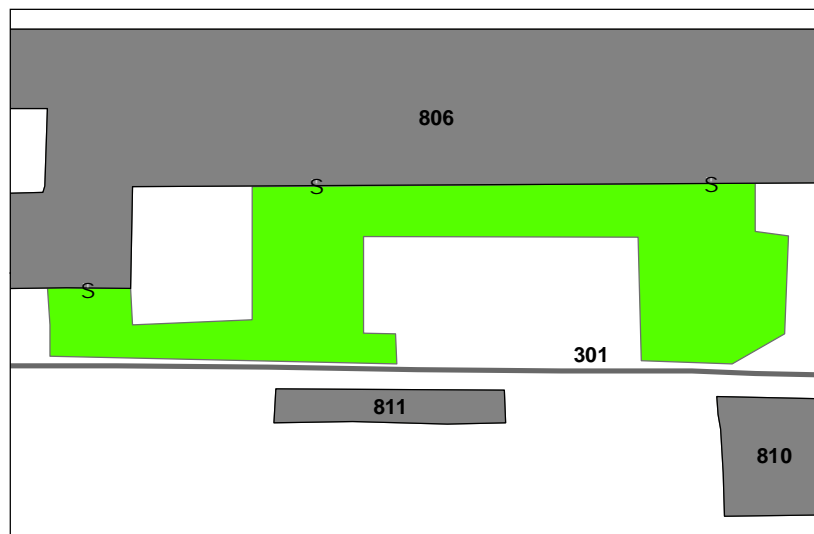
Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10058011	10/23/2008	Gravel	28998	Good	\$4600



3

Route 805: Building 120 Shop Parking

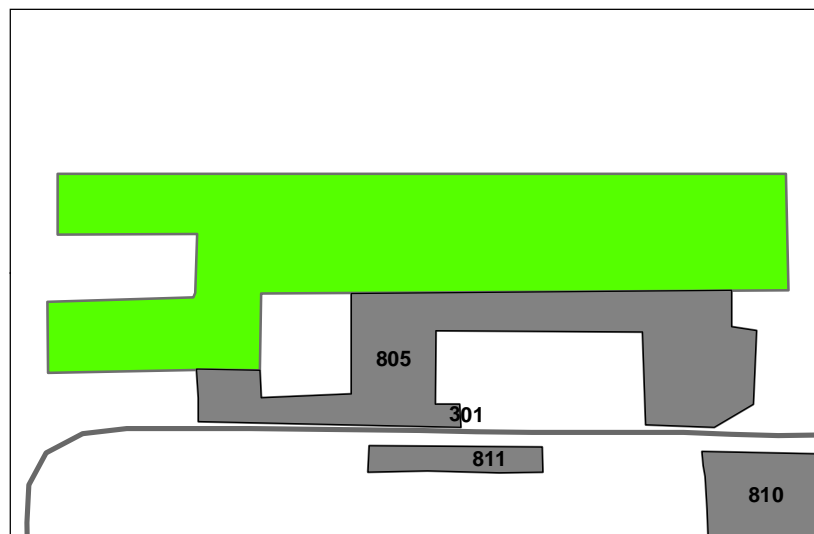
Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10058021	10/23/2008	Asphalt	37424	Good	\$7400



3

Route 806: Building 124 Equipment Parking

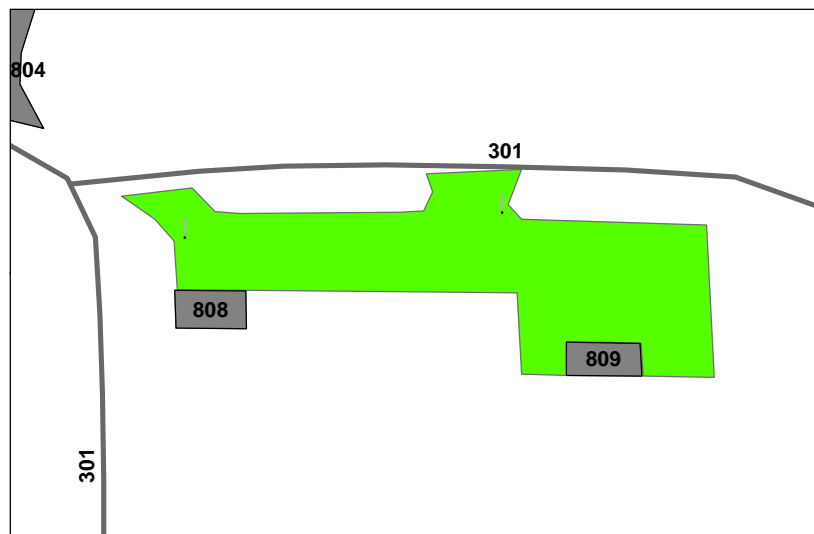
Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10058021	10/23/2008	Asphalt	88856	Good	\$17500



3

Route 807: Building 128 Parking

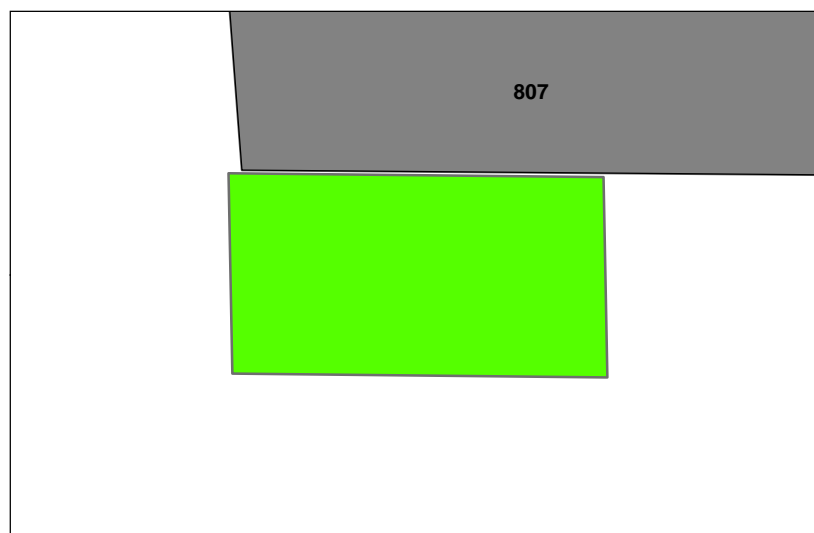
Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
	10/23/2008	Gravel	14355	Good	\$2300



3

Route 808: Building 128 West Handicapped Parking

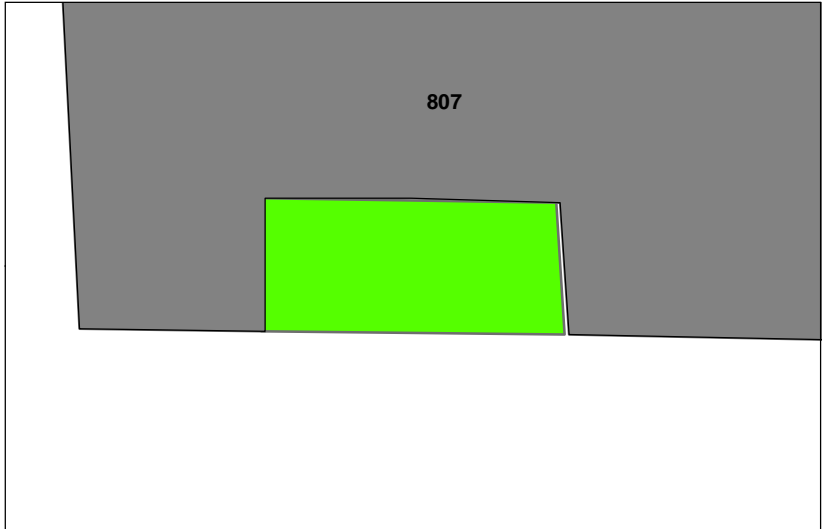
Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
	10/23/2008	Concrete	650	Good	\$100



3

Route 809: Building 128 East Handicapped Parking

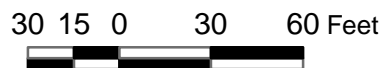
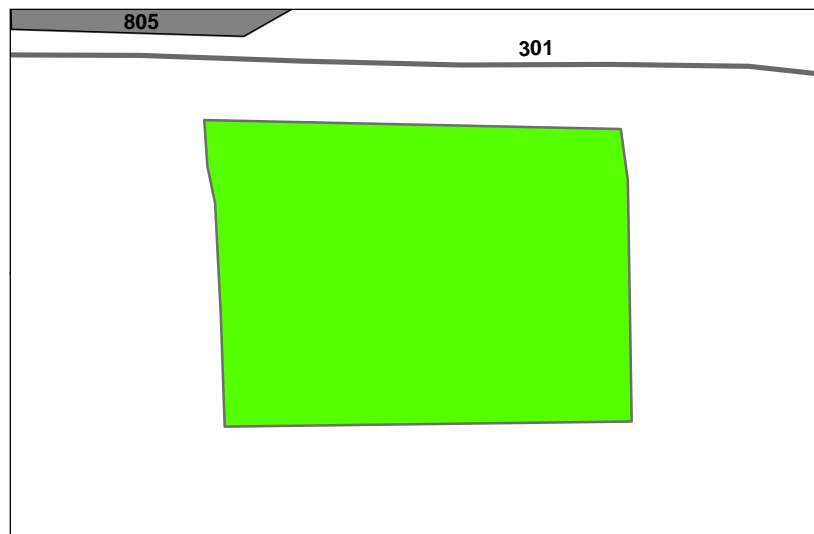
Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
	10/23/2008	Concrete	594	Good	\$100



3

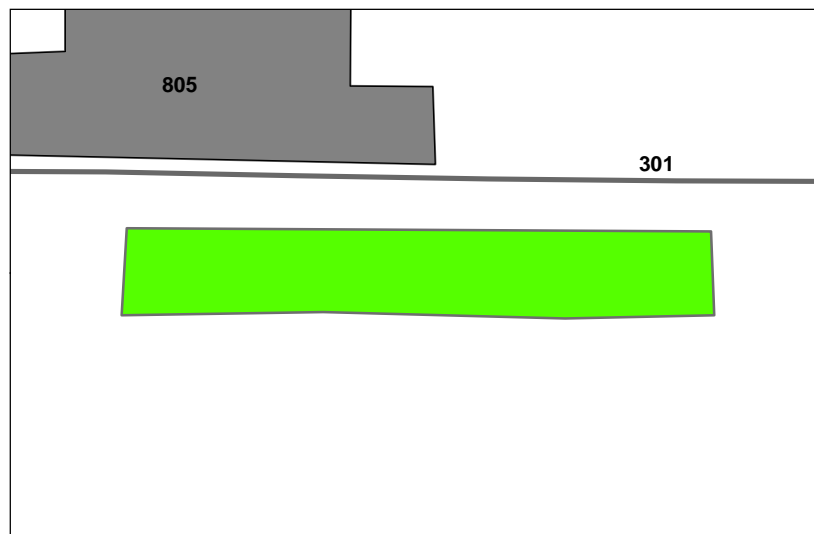
Route 810: Building 120 Southeast Parking

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10058020	10/23/2008	Gravel	10188	Good	\$1600

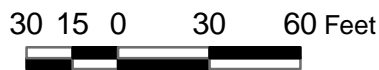


Route 811: Building 121 Parking

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10058022	10/23/2008	Asphalt	4156	Good	\$800

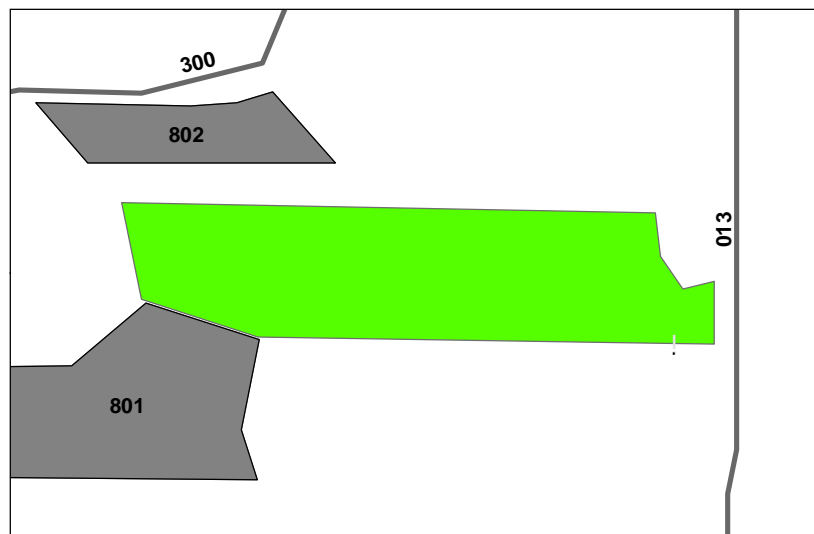


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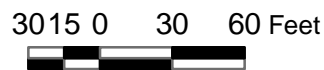


Route 812: Building 112A Parking

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10058024	10/23/2008	Gravel	9318	Good	\$1500

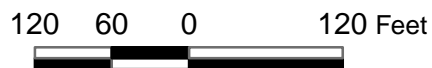
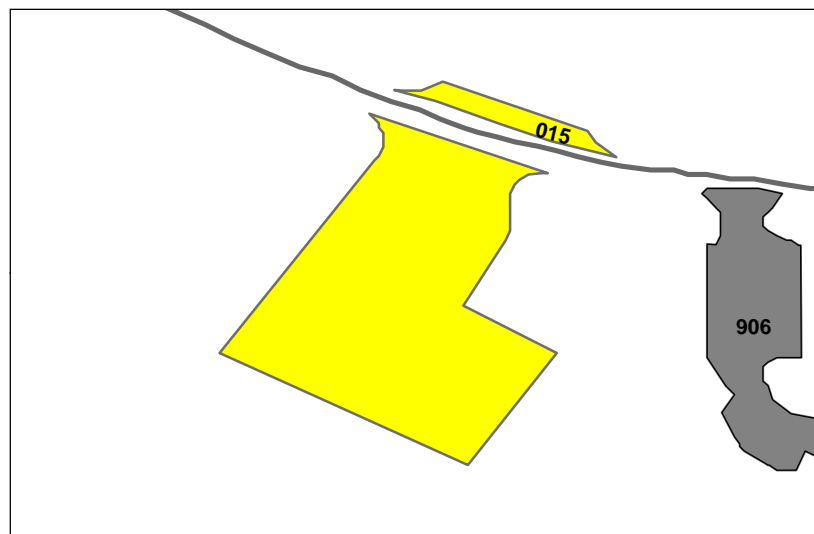


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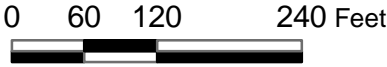
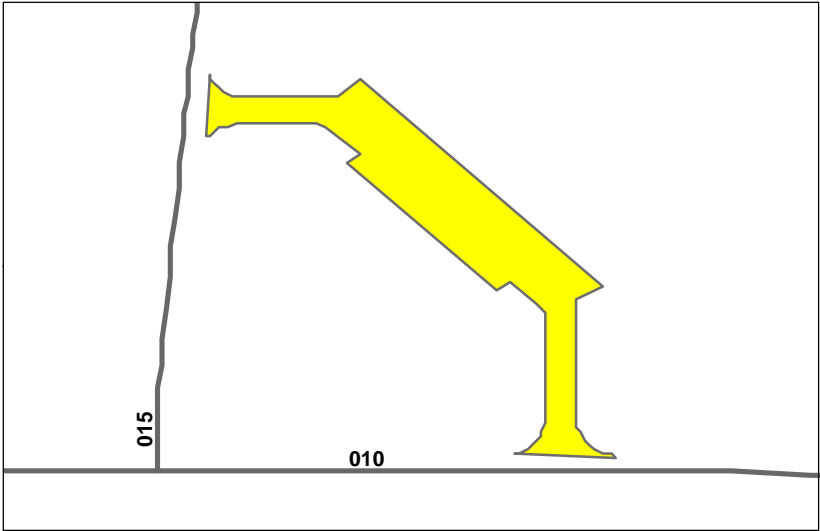
Route 900: Visitor Center Parking

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10024556	10/21/2008	Asphalt	30389	Fair	\$27700



Route 901: Lake Ladora Angler Parking

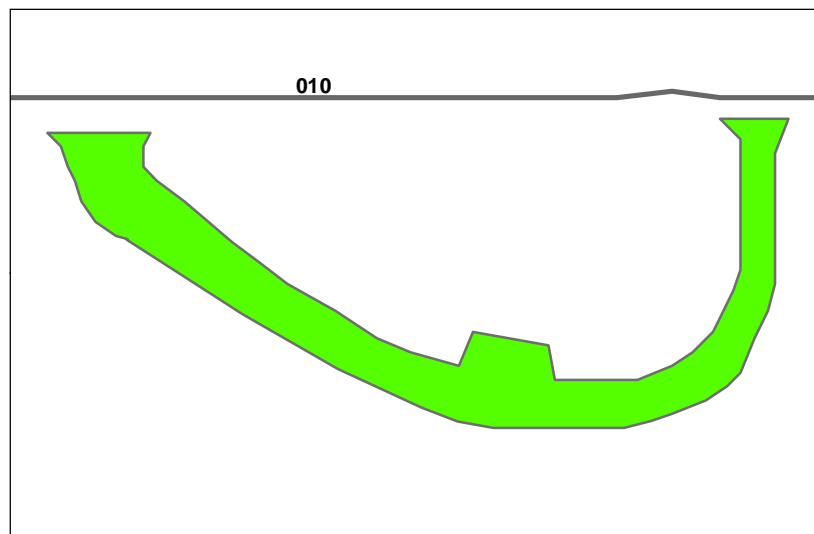
Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10024552	10/22/2008	Asphalt	15586	Fair	\$14200



3

Route 902: Wetlands Turnaround Parking

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
	10/22/2008	Gravel	11314	Good	\$1800

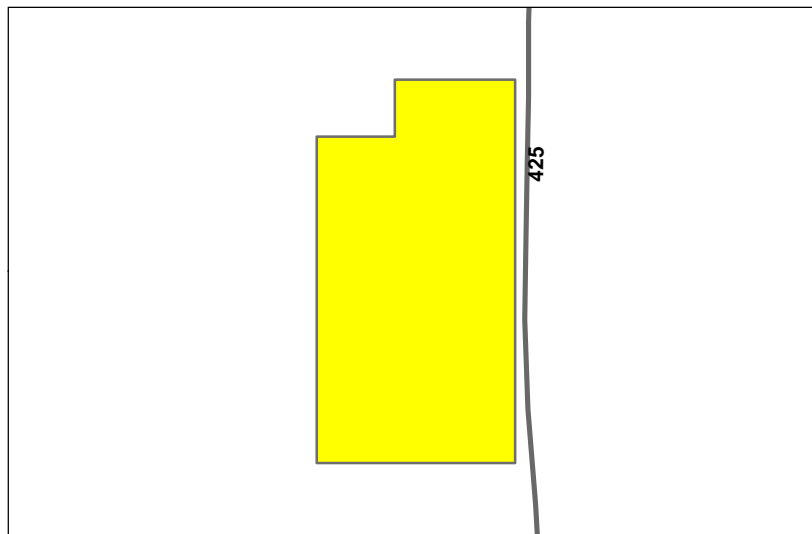


3



Route 903: Wildlife Watch Parking

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10050714	10/23/2008	Gravel	14554	Fair	\$4100

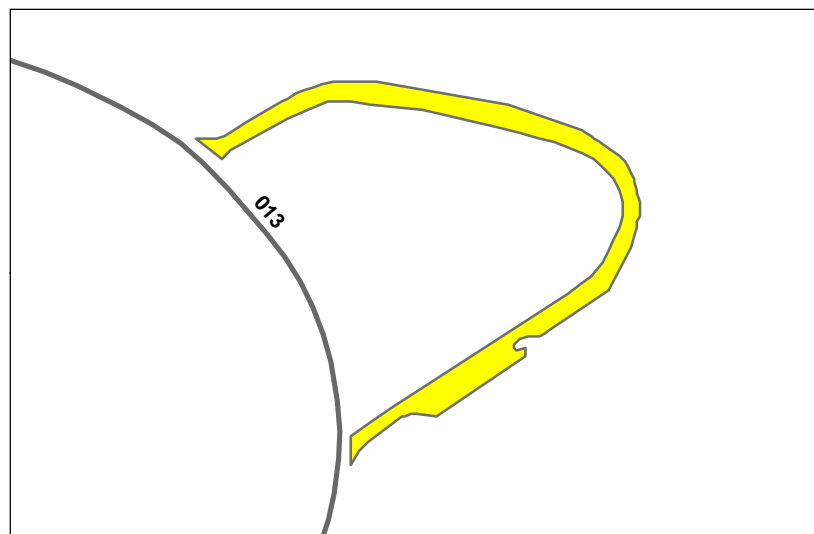


3

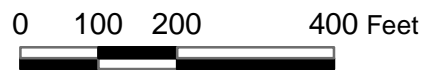


Route 904: Rattlesnake Hill Parking

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10050716	10/21/2008	Gravel	22392	Fair	\$6300

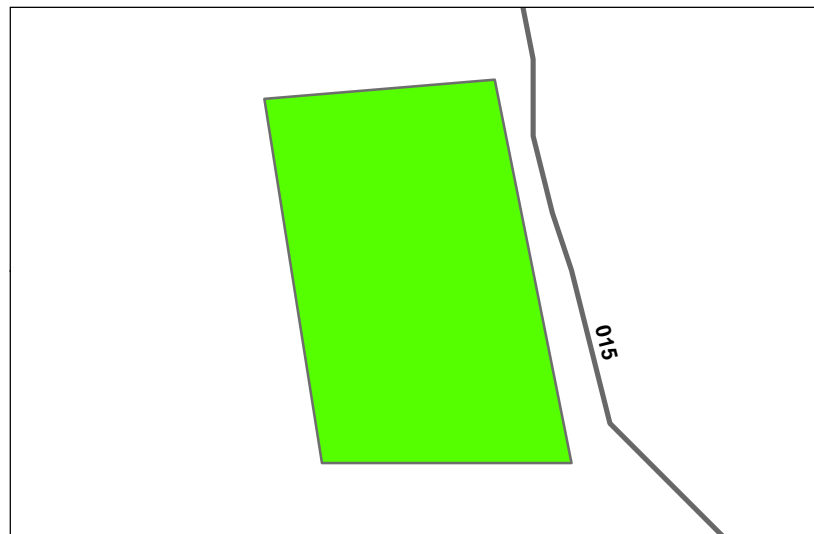


3

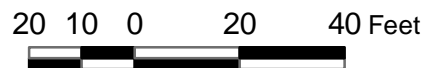


Route 905: Lake Mary Parking

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10053604	10/22/2008	Gravel	2509	Good	\$400

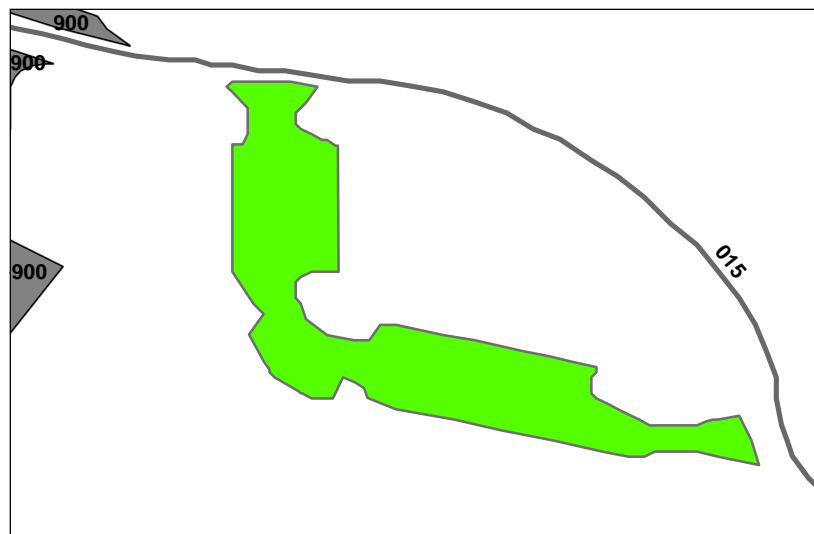
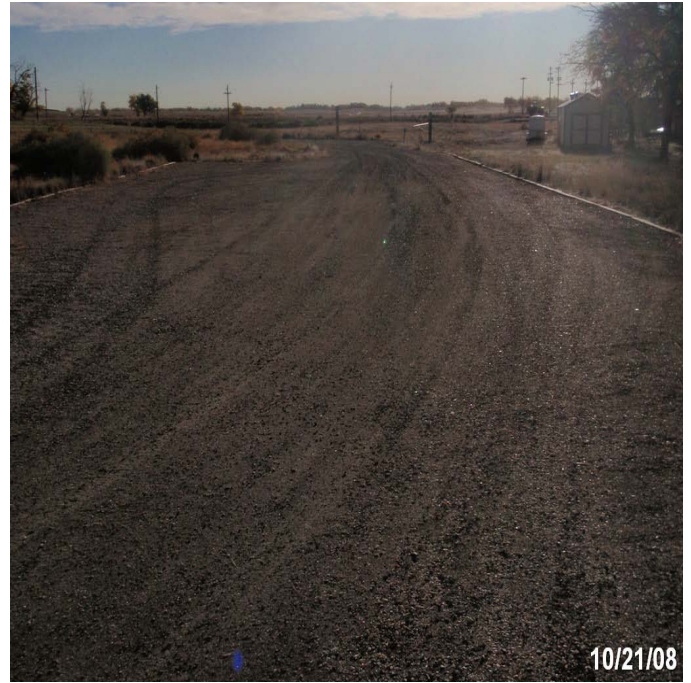


3




Route 906: Visitor Center East Parking

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10053604	10/21/2008	Gravel	18591	Good	\$3000

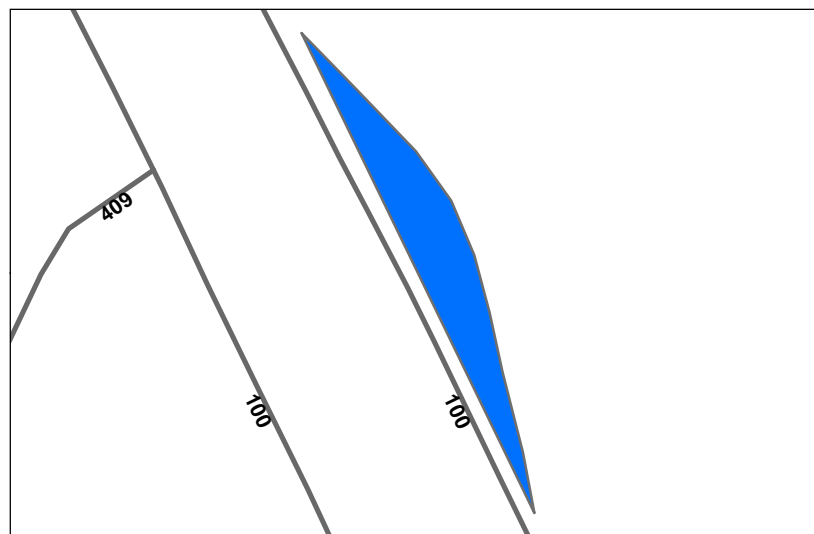
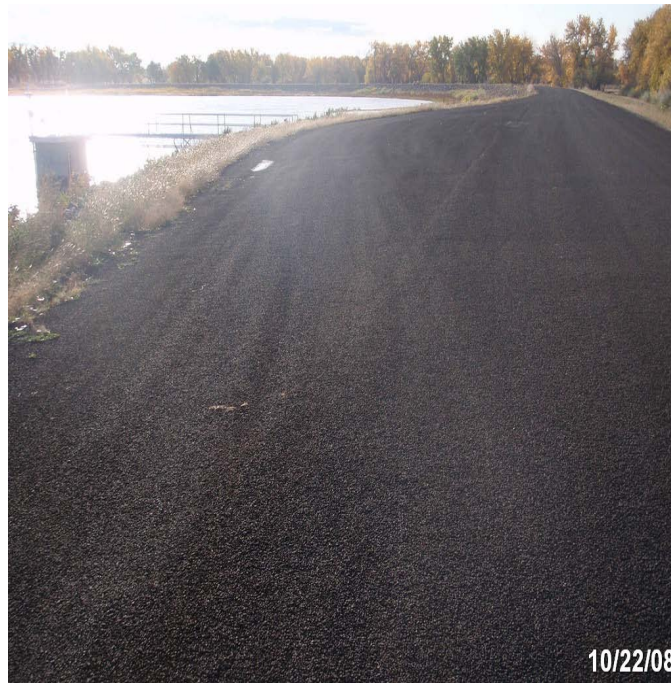


3

60 30 0 60 120 Feet


Route 907: Lower Derby Lake Dam Parking

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
	10/22/2008	Asphalt	4891	Excellent	\$0

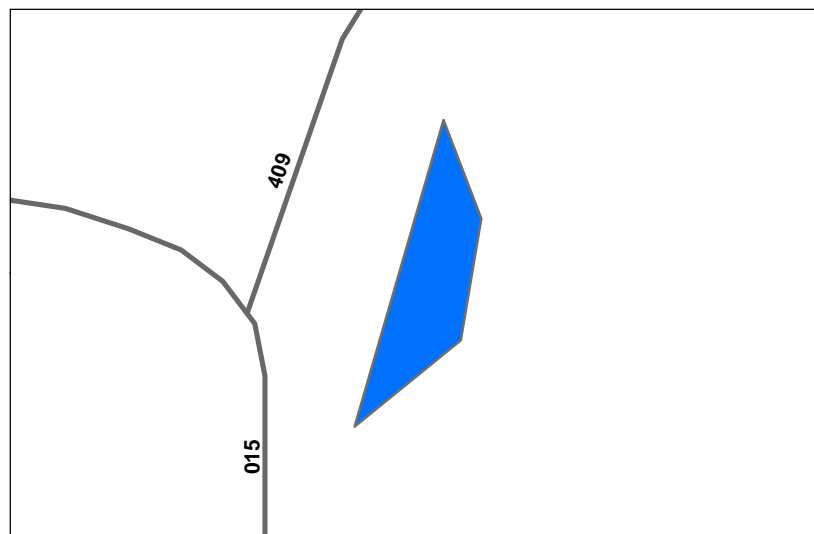


3




Route 908: Lake Ladora Dam Parking

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
	10/21/2008	Asphalt	1461	Excellent	\$0



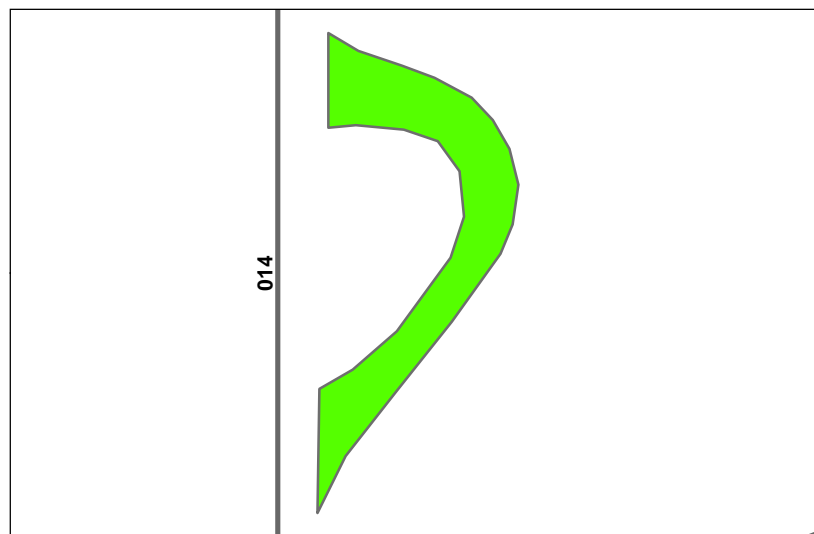
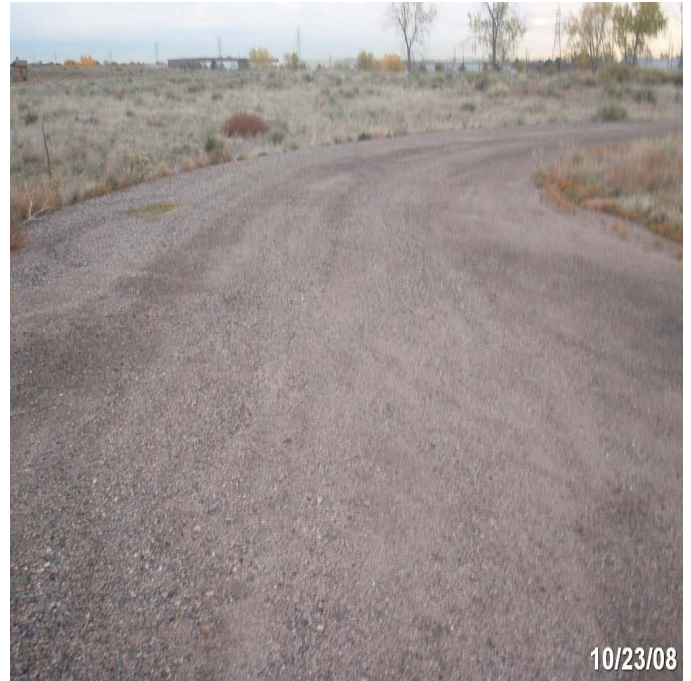
30 15 0 30 60 Feet



3

Route 909: South Entrance Truck Turnout

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
	10/23/2008	Gravel	6920	Good	\$1100



3



Rocky Mountain Arsenal NWR Bridge Inventory					
Rte #	Milepost	NBIS #	Sufficiency Rating	Functionally Obsolete	Structurally Deficient
014	0.01	-	-	-	-

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 010 ROUTE NAME: Southern Tram Route



Photo # 1894 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 010 ROUTE NAME: Southern Tram Route



Photo # 1903 - MP 0.75 - Culvert Deficiency

ROUTE NUMBER: 010 ROUTE NAME: Southern Tram Route



Photo # 1904 - MP 0.98 - Begin Section 002

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 010 ROUTE NAME: Southern Tram Route



Photo # 1908 - MP 2.01 - Begin Section 003

ROUTE NUMBER: 010 ROUTE NAME: Southern Tram Route



Photo # 1982 - MP 3.01 - Begin Section 004

ROUTE NUMBER: 010 ROUTE NAME: Southern Tram Route



Photo # 1985 - MP 3.99 - Begin Section 005

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 011 ROUTE NAME: 'E' Street



Photo # 1945 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 013 ROUTE NAME: Rattlesnake Hill Loop



Photo # 1870 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 013 ROUTE NAME: Rattlesnake Hill Loop



Photo # 1872 - MP 0.50 - Begin Section 002

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 013 ROUTE NAME: Rattlesnake Hill Loop



10/21/08

Photo # 1873 - MP 0.69 - Begin Section 003

ROUTE NUMBER: 014 ROUTE NAME: South Entrance Road



10/23/08

Photo # 2072 - MP 0.99 - Begin Route at Begin Section

ROUTE NUMBER: 014 ROUTE NAME: South Entrance Road



10/23/08

Photo # 2076 - MP 0.89 - Bridge

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 015 ROUTE NAME: Visitor Center Spur



Photo # 1970 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 015 ROUTE NAME: Visitor Center Spur



Photo # 1971 - MP 0.11 - Begin Section 002

ROUTE NUMBER: 015 ROUTE NAME: Visitor Center Spur



Photo # 1974 - MP 0.26 - Begin Section 003

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 015 ROUTE NAME: Visitor Center Spur



10/22/08

Photo # 1977 - MP 0.54 - Begin Section 004

ROUTE NUMBER: 015 ROUTE NAME: Visitor Center Spur



10/22/08

Photo # 1978 - MP 0.74 - Begin Section 005

ROUTE NUMBER: 100 ROUTE NAME: Lower Derby Dam Road



10/22/08

Photo # 1953 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 100 ROUTE NAME: Lower Derby Dam Road



Photo # 1959 - MP 0.54 - Begin Section 002

ROUTE NUMBER: 101 ROUTE NAME: Quad Loop Road



Photo # 1851 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 101 ROUTE NAME: Quad Loop Road



Photo # 1853 - MP 0.01 - Culvert Deficiency

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 101 ROUTE NAME: Quad Loop Road



Photo # 1854 - MP 0.01 - Culvert Deficiency

ROUTE NUMBER: 102 ROUTE NAME: Highline Canal Loop



Photo # 1949 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 102 ROUTE NAME: Highline Canal Loop



Photo # 1950 - MP 1.03 - Begin Section 002

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 103 ROUTE NAME: South 'F' Street



Photo # 1951 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 104 ROUTE NAME: South 'B' Street



Photo # 2010 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 105 ROUTE NAME: 'C' Street



Photo # 2081 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 105 ROUTE NAME: 'C' Street



Photo # 2082 - MP 1.00 - Begin Section 002

ROUTE NUMBER: 300 ROUTE NAME: Building 130 Access Road



Photo # 2094 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 300 ROUTE NAME: Building 130 Access Road



Photo # 2096 - MP 0.06 - Begin Section 002

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 301 ROUTE NAME: Main Administration Loop Road



Photo # 2100 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 301 ROUTE NAME: Main Administration Loop Road



Photo # 2101 - MP 0.18 - Begin Section 002

ROUTE NUMBER: 400 ROUTE NAME: South 'D' Street



Photo # 1855 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 401 ROUTE NAME: West 7th Avenue



Photo # 1862 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 401 ROUTE NAME: West 7th Avenue



Photo # 1869 - MP 0.99 - Begin Section 002

ROUTE NUMBER: 402 ROUTE NAME: Contractor Access Road



Photo # 1871 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 403 ROUTE NAME: Lift Station Access Road



Photo # 1878 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 404 ROUTE NAME: North 'B' Street



Photo # 1881 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 404 ROUTE NAME: North 'B' Street



Photo # 1883 - MP 1.00 - Begin Section 002

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 405 ROUTE NAME: Rail Grade Road



Photo # 1889 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 406 ROUTE NAME: Irondale Treatment Access Road



Photo # 1888 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 407 ROUTE NAME: 8th Avenue



Photo # 1891 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 407 ROUTE NAME: 8th Avenue



Photo # 1892 - MP 0.62 - Begin Section 002

ROUTE NUMBER: 407 ROUTE NAME: 8th Avenue



Photo # 1918 - MP 1.63 - Begin Section 003

ROUTE NUMBER: 407 ROUTE NAME: 8th Avenue



Photo # 1921 - MP 2.42 - Begin Section 004

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 407 ROUTE NAME: 8th Avenue



Photo # 1922 - MP 2.62 - Begin Section 005

ROUTE NUMBER: 407 ROUTE NAME: 8th Avenue



Photo # 1925 - MP 3.63 - Begin Section 006

ROUTE NUMBER: 407 ROUTE NAME: 8th Avenue



Photo # 1927 - MP 4.61 - Begin Section 007

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 407 ROUTE NAME: 8th Avenue



Photo # 1925 - MP 3.75 - Begin Section 008

ROUTE NUMBER: 408 ROUTE NAME: East 7th Avenue



Photo # 1932 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 408 ROUTE NAME: East 7th Avenue



Photo # 1936 - MP 0.99 - Begin Section 002

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 409 ROUTE NAME: Lake Ladora Access Road



Photo # 1960 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 409 ROUTE NAME: Lake Ladora Access Road



Photo # 1968 - MP 1.16 - Begin Section 002

ROUTE NUMBER: 410 ROUTE NAME: Upper Derby Lake Access Road



Photo # 1991 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 411 ROUTE NAME: Igloo Storage Access Road



Photo # 1994 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 411 ROUTE NAME: Igloo Storage Access Road



Photo # 1997 - MP 0.67 - Culvert Deficiency

ROUTE NUMBER: 411 ROUTE NAME: Igloo Storage Access Road



Photo # 1998 - MP 0.67 - Culvert Deficiency

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 412 ROUTE NAME: North 'F' Street



Photo # 2033 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 412 ROUTE NAME: North 'F' Street



Photo # 2036 - MP 1.00 - Begin Section 002

ROUTE NUMBER: 412 ROUTE NAME: North 'F' Street



Photo # 2037 - MP 1.62 - Begin Section 003

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 412 ROUTE NAME: North 'F' Street



Photo # 2041 - MP 2.00 - Begin Section 004

ROUTE NUMBER: 413 ROUTE NAME: Section 8 Wetland Access Road



Photo # 2000 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 414 ROUTE NAME: South 'E' Street



Photo # 2001 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 415 ROUTE NAME: Uvalda Access Road



Photo # 2006 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 416 ROUTE NAME: 6th Avenue Administrative Access Road



Photo # 2007 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 417 ROUTE NAME: Section 4 Perimeter Road



Photo # 2008 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 417 ROUTE NAME: Section 4 Perimeter Road



Photo # 2009 - MP 0.70 - Begin Section 002

ROUTE NUMBER: 418 ROUTE NAME: Bison Unloading Road



Photo # 2012 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 419 ROUTE NAME: Bison Watering Point Access Road



Photo # 2013 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 420 ROUTE NAME: Bison Weatherstation Access Road



Photo # 2015 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 421 ROUTE NAME: Section 27 Perimeter Road



Photo # 2017 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 422 ROUTE NAME: 9th Avenue



Photo # 2019 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 422 ROUTE NAME: 9th Avenue



Photo # 2020 - MP 0.80 - Begin Section 002

ROUTE NUMBER: 422 ROUTE NAME: 9th Avenue



Photo # 2023 - MP 1.80 - Begin Section 003

ROUTE NUMBER: 422 ROUTE NAME: 9th Avenue



Photo # 2024 - MP 2.06 - Begin Section 004

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 422 ROUTE NAME: 9th Avenue



Photo # 2025 - MP 2.16 - Begin Section 005

ROUTE NUMBER: 422 ROUTE NAME: 9th Avenue



Photo # 2026 - MP 2.38 - Begin Section 006

ROUTE NUMBER: 422 ROUTE NAME: 9th Avenue



Photo # 2027 - MP 2.78 - Begin Section 007

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 422 ROUTE NAME: 9th Avenue



Photo # 2028 - MP 3.77 - Begin Section 008

ROUTE NUMBER: 423 ROUTE NAME: North 'D' Street



Photo # 2044 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 423 ROUTE NAME: North 'D' Street



Photo # 2045 - MP 0.98 - Begin Section 002

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 423 ROUTE NAME: North 'D' Street



10/22/08

Photo # 2046 - MP 1.99 - Begin Section 003

ROUTE NUMBER: 424 ROUTE NAME: South Perimeter Road



10/23/08

Photo # 2054 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 424 ROUTE NAME: South Perimeter Road



10/23/08

Photo # 2056 - MP 0.94 - Begin Section 002

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 424 ROUTE NAME: South Perimeter Road



Photo # 2059 - MP 2.25 - Begin Section 003

ROUTE NUMBER: 424 ROUTE NAME: South Perimeter Road



Photo # 2061 - MP 3.27 - Begin Section 004

ROUTE NUMBER: 425 ROUTE NAME: East Perimeter Road



Photo # 2062 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 425 ROUTE NAME: East Perimeter Road



Photo # 2066 - MP 0.94 - Begin Section 002

ROUTE NUMBER: 425 ROUTE NAME: East Perimeter Road



Photo # 2069 - MP 1.94 - Begin Section 003

ROUTE NUMBER: 425 ROUTE NAME: East Perimeter Road



Photo # 2070 - MP 2.94 - Begin Section 004

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 425 ROUTE NAME: East Perimeter Road



Photo # 2071 - MP 3.95 - Begin Section 005

ROUTE NUMBER: 426 ROUTE NAME: Havana Ponds Access Road



Photo # 2077 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 427 ROUTE NAME: North 'C' Street



Photo # 2083 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 428 ROUTE NAME: Zero Discharge Facility Access Road



Photo # 2084 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 428 ROUTE NAME: Zero Discharge Facility Access Road



Photo # 2087 - MP 0.15 - Culvert Deficiency

ROUTE NUMBER: 429 ROUTE NAME: Outer Tour Loop Segment 5



Photo # 1999 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 430 ROUTE NAME: Outer Tour Loop Segment 6



Photo # 2106 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 431 ROUTE NAME: Outer Tour Loop Segment 7



Photo # 2107 - MP 0.00 - Begin Route at Begin Section

Accident Summary

Number of Accidents Reported	Timespan of Accidents	Injuries	Fatalities
0	No Accidents to Report	0	0

APPENDIX

FWS ROAD FUNCTIONAL CLASSIFICATION	
Class I	Principal Refuge Road (Public Roads) - Routes that constitute the main access route, main auto tour route, or thoroughfare for refuge visitors. These routes are accessible by 2WD vehicles. Routes are numbered from 10 to 99.
Class II	Connector Refuge Road (Public Roads) - Routes that provide circulation within the refuge. These routes can also provide access to areas of scenic, scientific, recreational or cultural interest, such as overlooks, campgrounds, education centers, etc. These routes are accessible by 2WD vehicles. Routes are numbered from 100 to 199.
Class III	Special Purpose Refuge Road (Public Roads) - Roads that provide circulation within special use areas such as campgrounds or public concessionaire facilities or access to remote areas of the refuge. These routes may not be 2WD accessible. Routes are numbered from 200 to 299
Class IV	Administrative Access Road (Administrative Roads) - Routes intended for access to administrative developments or structures such as maintenance offices, employee quarters, or utility areas. These routes are accessible by 2WD vehicles. These routes may restrict access to the general public. Routes are numbered from 300 to 399.
Class V	Restricted Road (Administrative Roads) - Routes normally closed to the public, such as maintenance roads, service roads, patrol roads, and fire breaks. These routes may be open to the public for a short period of time for a special use, such as hunting access. These routes may not be 2WD accessible. Routes are numbered from 400 to 499.

A refuge road system contains those routes within or giving access to a refuge or other unit of the FWS that are administered by the FWS, or by the Service in cooperation with other agencies. The assignment of a functional classification (FC) to a refuge road is not based on traffic volumes or design speed, but on the intended use or function of that route.

DESCRIPTION OF RATING SYSTEM

Rating Data is collected on four different surface types: Asphalt, Concrete, Gravel, and Native. The Utah LTAP Center's Remaining Service Life (RSL) system is used for all surface types. The RSL system is based on the Strategic Highway Research Program's (SHRP) Distress Identification Manual.

Asphalt Rating System

Data is collected on the following distresses and conditions:

- **Fatigue Cracking** - Interconnected cracks forming small irregular shapes.
- **Longitudinal Cracking** - Cracks running parallel with the roadway, in the direction of traffic.
- **Transverse Cracking** - Cracks perpendicular to the roadway, going across the lane or lanes.
- **Block Cracking** - Interconnected cracks forming large blocks.
- **Edge Cracking** - Cracks running along the edge of the pavement surface.
- **Patches** - Original surface repaired with new asphalt patch material.
- **Potholes** - Holes or depressions in the pavement.
- **Rutting** - surface depressions in the wheel paths.
- **Roughness** - Evenness of pavement for serviceability.
- **Drainage** - Ability of the road surface to drain water based on proper slope.

A Condition Rating value is calculated for each homogenous pavement section, and can be up to 1 mile in length.

Rating Index Formula

Fatigue, longitudinal, transverse, block, and edge cracking, along with patching and potholes are rated on a 0 - 9 scale (0 = no distress, 9 = maximum distress). The rating given is based on the extent and the severity of the distress. Rutting, roughness, and drainage are rated on a 0 - 3 scale (0 = excellent, 3 = poor). Each distress type has given Remaining Service Life (RSL) values (in years) based on the rating for that particular distress. The distress with the rating resulting in the lowest RSL value is considered to be the governing distress. That value is then assigned as the RSL of the road segment.

Concrete Rating System

Data is collected on the following distresses and conditions:

- **Spalling of Joints** - Chipping, breaking, or cracking of slab edges
- **Joint Seal Damage** - Any damage or condition that enables materials or water to infiltrate into the joint from the surface.
- **Corner Breaks** - A portion of the slab separated by a crack that intersects the adjacent transverse and longitudinal joints, forming approximately a 45° angle to the direction.
- **Broken Slabs** - Faulting and/or cracking localized to individual slabs.
- **Faulting** - Difference in elevation across a crack or joint.
- **Longitudinal Cracking** - Cracks in the pavement running parallel to road.

- **Transverse Cracking** - Cracks in the pavement running perpendicular to the direction of traffic.
- **Patch Deterioration** – Faulting, settling, or cracking of previously placed patch
- **Map Cracking** – A series of cracks that extend only into the upper surface of the Slab

A Condition Rating value is calculated for each homogenous pavement section, and can be up to 1 mile in length.

Rating Index Formula

The rating procedure for concrete pavement is the same as that for asphalt pavement described previously. Each of the distresses described above are rated on the same 0 – 9 scale. The governing distress is then determined and the RSL associated with that distress is assigned to the road segment.

Gravel and Native Rating System

Data is collected on the following distresses and conditions:

- **Cross Section (Crown)** - Roadway built so that the center is higher than the shoulder, to prevent water from pooling on roadway.
- **Roadside Drainage** - Roadside ditches and culverts to handle water flow and prevent pooling on the roadside.
- **Corrugations (Washboarding)** - Small trenches or holes developing perpendicular to the roadway.
- **Potholes** - Holes or depressions in the roadway.
- **Rutting** - Depressions running parallel with the roadway, in the wheelpaths.
- **Dust** - Amount of dust caused by traffic.
- **Loose Aggregate (Gravel Only)** - Loose gravel, typically piled up on the roadway edges or centerline.

A Condition Rating value is calculated for each homogenous pavement section, and can be up to 1 mile in length.

Rating Index Formula

The rating procedure for unpaved roads is the same as that for asphalt and concrete pavements described previously. Of the distresses described above, corrugations, potholes, rutting, and loose aggregate are rated on the same 0 – 9 scale previously mentioned. Cross section, roadside drainage, and dust are rated on the same 0 – 3 scale described for asphalt pavement. The governing distress is then determined and the RSL associated with that distress is assigned to the road segment.

Condition Descriptions by Surface Type

The following definitions are used to describe pavement condition for the various surface types. These are general guidelines for condition indications.

Asphalt

Excellent – Recently constructed or overlaid road where construction or overlay was performed correctly- No maintenance required. RSL = 19-20 years.

Good – Low extent longitudinal and transverse cracks. All cracks are 1/4" or less with little or no crack erosion. Patches are in good condition and applied correctly. Routine Maintenance recommended. RSL = 13-18 years.

Fair - Roads are in good structural condition with little or no fatigue cracking. Longitudinal, transverse, and edge cracking is at medium extent and severity. Block cracking is not extensive. Any patches are in good condition. Preventative maintenance recommended. RSL = 7-12 years.

Poor - Road beginning to show signs of structural distress. Fatigue cracking is medium to high extent and medium severity. Cracking will be severe. Surface may have severe block cracking and show. Patches are in fair to poor condition. There is moderate distortion or rutting and occasional potholes. Rehabilitation recommended. RSL = 1-6 years.

Failed - Road is severely deteriorated. Signs of structural failure appear along with severe and extensive fatigue cracking, distortion, potholes, or extensive patches in poor condition. Reconstruction recommended. RSL = 0 years.

Concrete

Excellent - New pavement. No maintenance required. RSL = 19-20 years

Good - First signs of transverse cracking, patch or repair, more extensive pop-outs, or scaling. Sealing or routine maintenance recommended. RSL = 13-18 years.

Fair – Pavement has joint or crack spalling, and/or faulting, along with cracking at corners with broken pieces. Any Patches are in fair condition and faulting is at a minimum. Preventative maintenance recommended. RSL = 7-12 years.

Poor - Joints and cracks are open 1 inch, spalled, or patched. Faulting is more severe. Rehabilitation recommended. RSL = 1-6 years.

Failed - Most slabs have failed structurally, and faulting is severe. Reconstruction recommended. RSL = 0 years.11-9

The following table shows the relationship between RSL and condition.

SUBJECTIVE CONDITION RATING FOR REMAINING SERVICE LIFE (Asphalt and Concrete Pavements)								
	FAILED	POOR		FAIR		GOOD		EXCELLENT
RSL Years	0	1-3	4-6	7-9	10-12	13-15	16-18	19-20