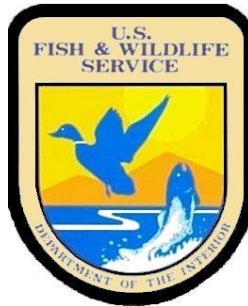


# The Road Inventory of Sonny Bono Salton Sea National Wildlife Refuge Calipatria, CA



Prepared By:  
Federal Highway Administration  
Central Federal Lands Highway Division  
April 2012



# TABLE OF CONTENTS

<u>SECTION</u>		<u>PAGE</u>
I.	<b><u>INTRODUCTION</u></b>	1 - 1
II.	<b><u>SUMMARY INFORMATION</u></b> Summaries by Condition, Surface Type and Functional Class	2 - 1
III.	<b><u>REFUGE ROUTE LOCATION MAPS</u></b>	3 - 1
IV.	<b><u>ROUTE IDENTIFICATION LIST</u></b>	4 - 1
V.	<b><u>ROUTE CONDITION RATING SHEETS</u></b>	5 - 1
VI.	<b><u>PARKING LOT CONDITION RATING SHEETS</u></b>	6 - 1
VII.	<b><u>BRIDGE INVENTORY INFORMATION</u></b>	7 - 1
VIII.	<b><u>PHOTOGRAPHIC SHEETS</u></b>	8 - 1
IX.	<b><u>ACCIDENT SUMMARY</u></b>	9 - 1
	<b><u>APPENDIX</u></b>	
	Functional Classification Table	i
	Description of Rating System	ii



## INTRODUCTION

The Transportation Equity Act for the 21<sup>st</sup> 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 22<sup>nd</sup> 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.

# Sonny Bono Salton Sea NWR

## Summaries

### Route Miles and Percentages by Functional Class and Condition

#### Condition Rating (Based on RSL)\*

F. C.	Excellent		Good		Fair		Poor		Failed		TOTAL MILES
	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	
I	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00
II	0.00	0.0%	1.51	70.5%	0.63	29.5%	0.00	0.0%	0.00	0.0%	2.15
III	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00
IV	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00
V	0.00	0.0%	20.99	81.5%	4.75	18.5%	0.00	0.0%	0.00	0.0%	25.74
Totals	0.00	0.0%	22.50	80.7%	5.39	19.3%	0.00	0.0%	0.00	0.0%	27.88

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

### Route Miles and Percentages by Surface Type and Condition

#### Paved Condition Rating [Condition(RSL)]

Surface	Excellent		Good		Fair		Poor		Failed		TOTAL MILES
	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	
AS	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00
CO	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00
Totals	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00

#### Unpaved Condition Rating [Condition(RSL)]

Surface	Excellent		Good		Fair		Poor		Failed		TOTAL MILES
	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	
GR	0.00	0.0%	4.79	88.3%	0.63	11.7%	0.00	0.0%	0.00	0.0%	5.42
NA	0.00	0.0%	17.71	78.8%	4.75	21.2%	0.00	0.0%	0.00	0.0%	22.46
PR	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00
Totals	0.00	0.0%	22.50	80.7%	5.39	19.3%	0.00	0.0%	0.00	0.0%	27.88

### Square Footage (Parking Areas)

#### Condition Rating

Surface	Excellent		Good		Fair		Poor		Failed		Total Square Feet
	Square Feet	%	Square Feet	%	Square Feet	%	Square Feet	%	Square Feet	%	
AS	0	0.0%	19,499	58.0%	14,118	42.0%	0	0.0%	0	0.0%	33,617
CO	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
GR	0	0.0%	93,462	55.1%	76,251	44.9%	0	0.0%	0	0.0%	169,713
NA	0	0.0%	0	0.0%	8,266	100.0%	0	0.0%	0	0.0%	8,266
PR	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Totals	0	0.0%	112,961	53.4%	98,635	46.6%	0	0.0%	0	0.0%	211,596

# Sonny Bono Salton Sea NWR Summaries

## Route Miles and Percentages by Use Type and Condition

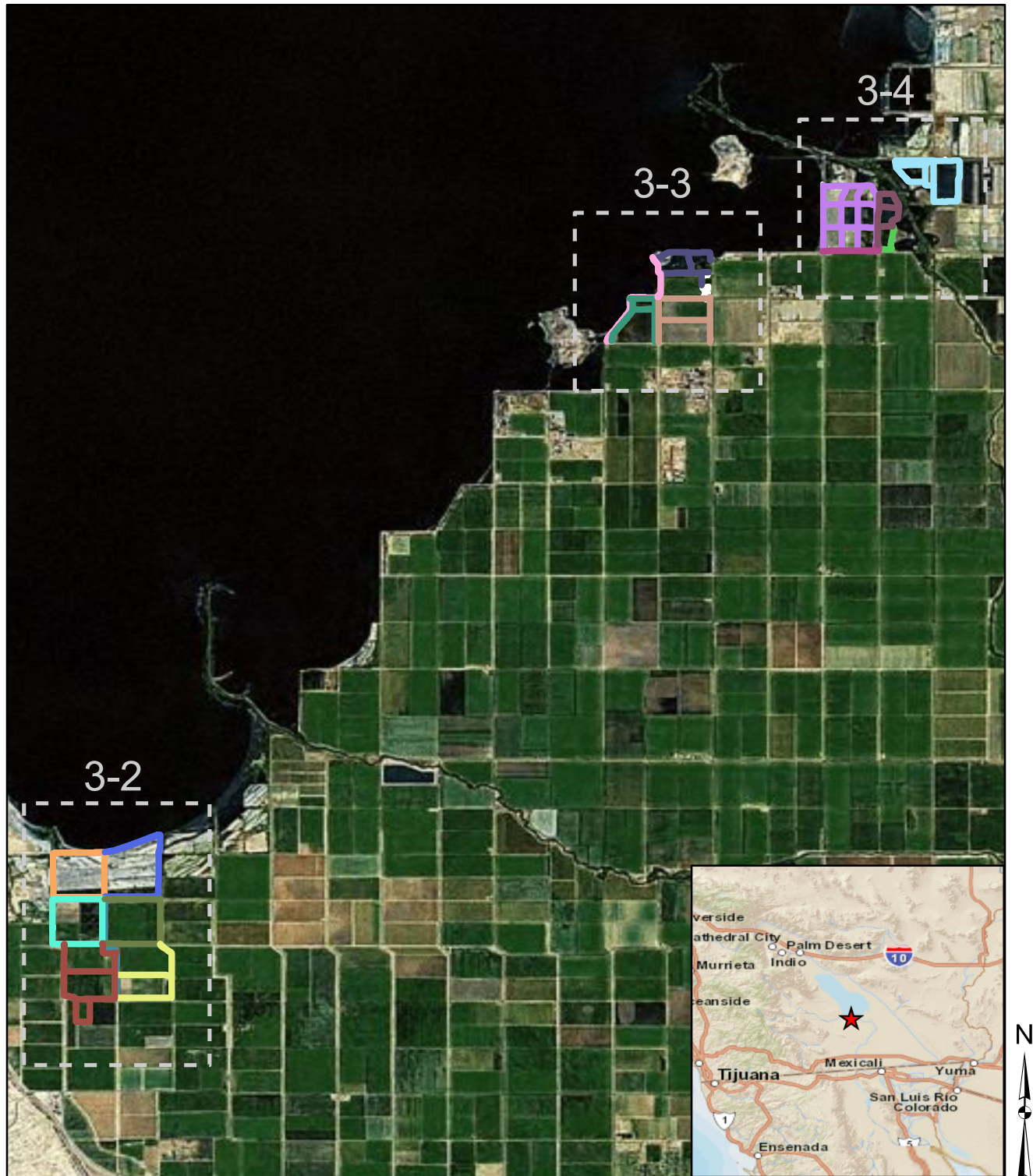
Road Condition Rating: Public/Administrative Use

USE TYPE	Excellent		Good		Fair		Poor		Failed		TOTAL MILES
	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	
Public (FC I-III)	0.00	0.0%	1.51	70.5%	0.63	29.5%	0.00	0.0%	0.00	0.0%	2.15
Admin (FC IV-V)	0.00	0.0%	20.99	81.5%	4.75	18.5%	0.00	0.0%	0.00	0.0%	25.74
Totals	0.00	0.0%	22.50	80.7%	5.39	19.3%	0.00	0.0%	0.00	0.0%	27.88

Parking Condition Rating: Public/Administrative Use

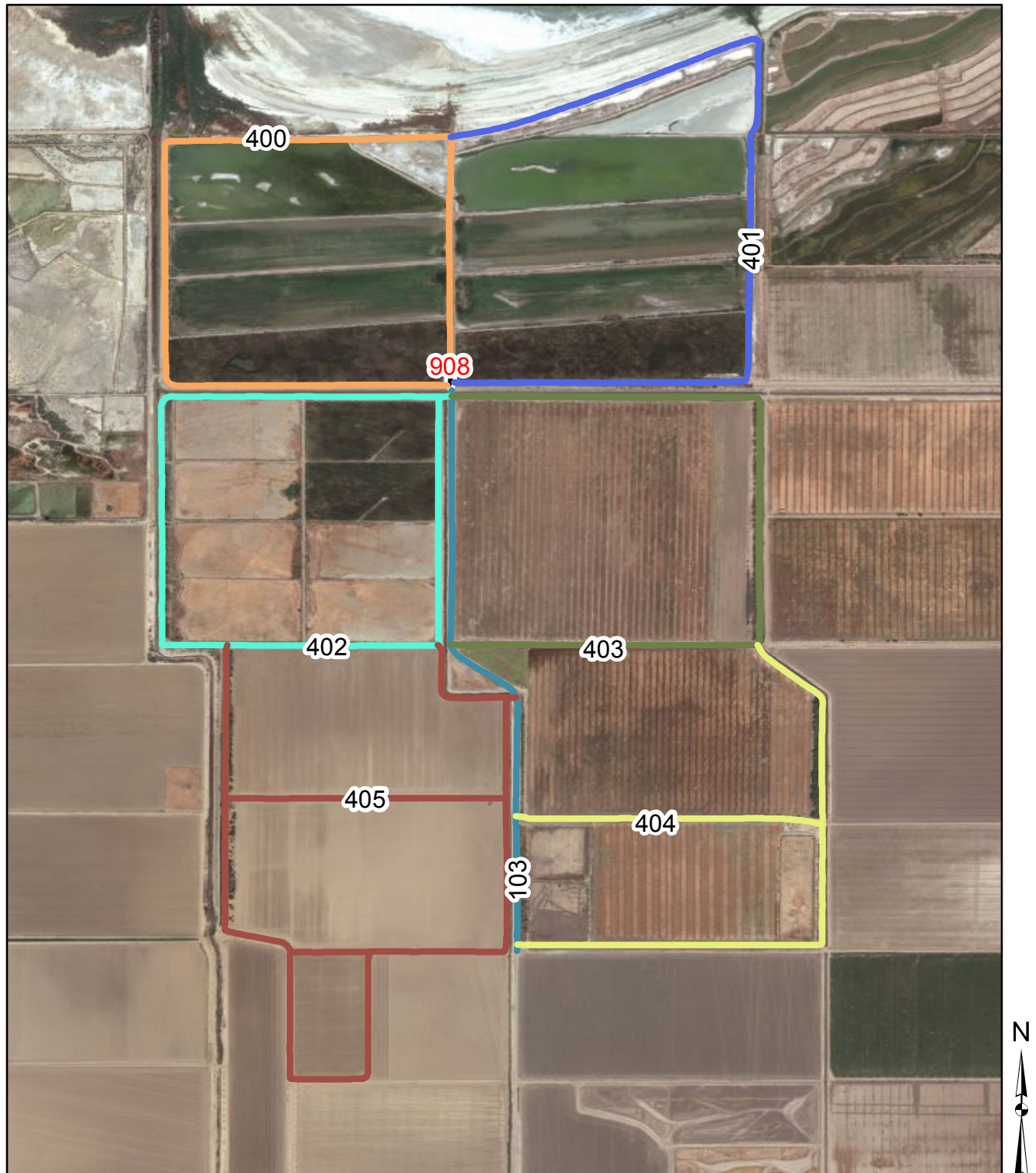
USE TYPE	Excellent		Good		Fair		Poor		Failed		Total Sq Ft
	Sq Ft	%	Sq Ft	%	Sq Ft	%	Sq Ft	%	Sq Ft	%	
Public	0	0.0%	50731	63.8%	28806	36.2%	0	0.0%	0	0.0%	79,537
Admin	0	0.0%	62230	47.1%	69829	52.9%	0	0.0%	0	0.0%	132,059
Totals	0	0.0%	112,961	53.4%	98,635	46.6%	0	0.0%	0	0.0%	211,596

# Sonny Bono Salton Sea National Wildlife Refuge Route Location Map





# Sonny Bono Salton Sea National Wildlife Refuge Route Location Map



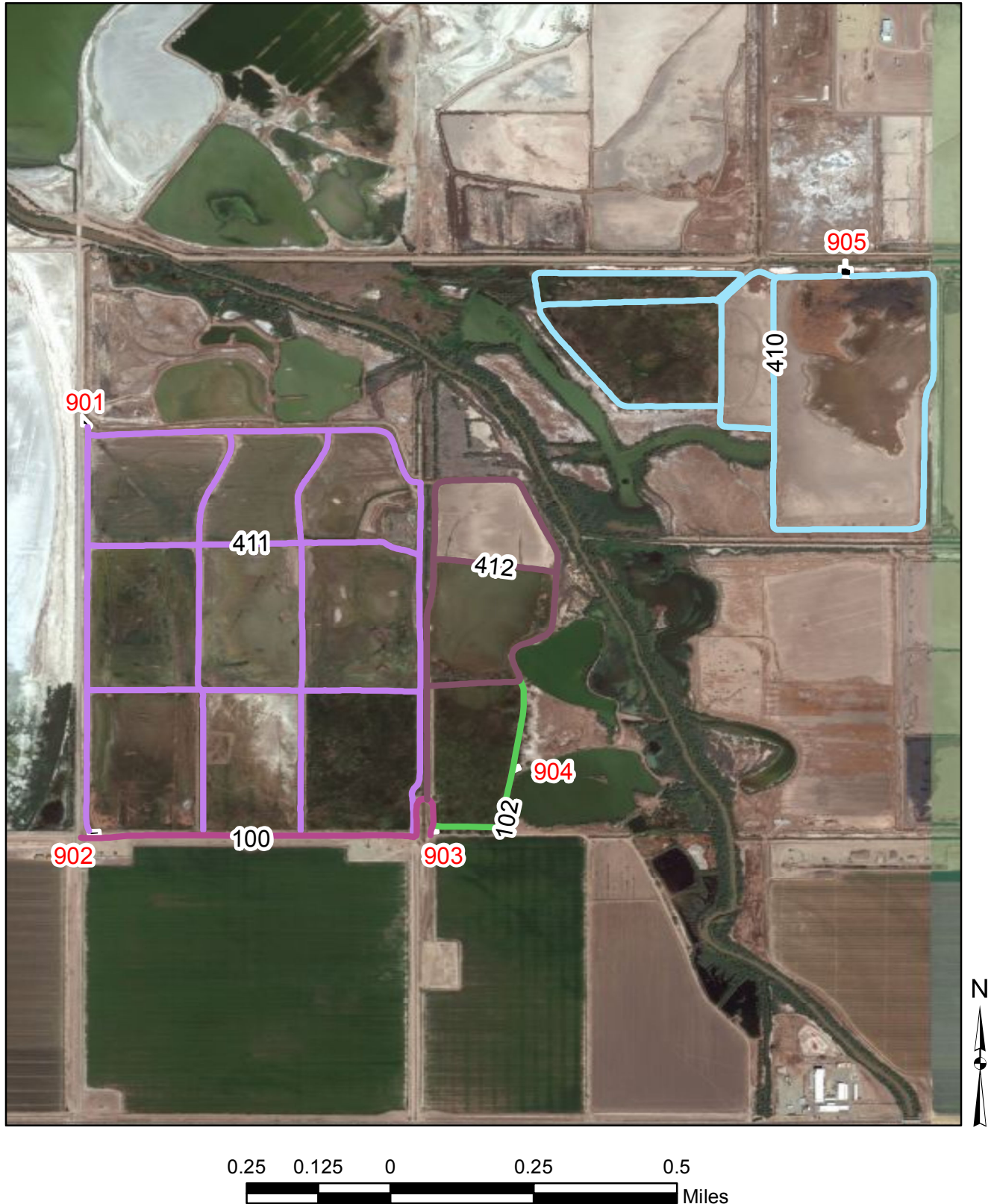
0.5 0.25 0 0.5 1 Miles

# Sonny Bono Salton Sea National Wildlife Refuge Route Location Map





# Sonny Bono Salton Sea National Wildlife Refuge Route Location Map



## Sonny Bono Salton Sea - 81631

### Route Identification List

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
100	10049346	H3 - H6 Access Road	0.63	From Garst Road to H9 Parking (Route 903)	-	0.63	1	2
102	-	H7 Access Road	0.37	From H3 - H6 Access Road (Route 100) to Dike Road that surrounds Hazard 7-9 (Route 412)	-	0.37	1	2
103	10000709	Vendel Road	1.14	From Vendel Public Road to Observation Tower Parking (Route 908)	-	1.14	2	2
400	10000670	1-4 A Ponds Road (Includes Sea Wall)	1.86	From Observation Tower Parking (Route 908) around ponds and back to Observation Tower Parking (Route 908)	-	1.86	1	5
401	10000671	1-5 B Ponds Road (Includes Sea Wall)	1.69	From From Observation Tower Parking (Route 908) to 1-4 A Ponds Road (Includes Sea Wall) (Route 400)	-	1.69	1	5
402	10000660	Reidman Ponds 1-4 Perimeter Road	1.89	From Vedal Road (Route 103) around Reidman Ponds 1-4	-	1.89	1	5
403	10000672	Pond 257 Perimeter Road	1.49	From Vandal Road (Route 103) around Pond 257	-	1.49	1	5
404	10000644	North and South Johnson Road	1.63	From Pond 257 Perimeter Road (Route 403) to Vandal Road (Route 103)	-	1.63	1	5
405	10000665	North, Middle and South Flammang Fields Road	2.82	From Reidman Ponds 1-4 Perimeter Road (Route 402) Vandal Road (Route 103)	-	2.82	1	5
406	10000653	Headquarter Ponds B,C, and D Road	1.42	From Shop B Parking (Route 801) to Sea Wall Road (Route 407)	-	1.42	2	5
407	10000641	Sea Wall Road	1.25	From Headquarter Ponds B,C, and D Road (Route 406) to Mcnerney Road	-	1.25	1	5
408	10000695	Dike Road that surround Union 461 and the Yuma Clapper Rail Pond	1.41	From U1 - U2 Parking (Route 906) to U3 - U4 Parking (Route 907)	-	1.41	1	5
409	10000658	Dike Road surrounds 419 and 420	1.90	From Mcnerney Road to HQ/ VC RV Overflow Parking (Route 910)	-	1.90	1	5
410	10000656	Dike Road that surrounds Hazard Ponds 10-11/12	2.74	To H10 - H13 Parking (Route 905) around Hazard Ponds 10-11/12	-	2.74	1	5
411	10000655	Dike Road that surrounds all ponds in Hazard 1-6, 1A-3A	4.26	From H1- H2a Parking (Route 901) to H3 - H6 Access Road (Route 100)	-	4.26	1	5
412	10000694	Dike Road that surrounds Hazard 7-9	1.38	From H3 - H6 Access Road (Route 100) to H7 Access Road (Route 102)	-	1.38	1	5

\* Route has more than one Asset Number

NUMERIC ROUTE ID

4a-1

## Sonny Bono Salton Sea - 81631

### Route Identification List (Parking)

Shading Color Key:

White = Paved Routes
Green = Unpaved Routes

Route #	Asset Number	ROUTE NAME	Area (Sq Ft)	ROUTE DESCRIPTION	Surface Type
800	10000666	Shop A Parking	14,118	From HQ/ VC Parking (Route 900)	Asphalt
801	10000666	Shop B Parking	62,230	From Shop A Parking (Route 800)	Gravel
802	-	Equipment Parking	55,711	From Headquarter Ponds B,C, and D Road (Route 406)	Gravel
900	-	HQ/ VC Parking	19,499	From Estelle Road	Asphalt
901	-	H1- H2a Parking	4,048	From Garst Road	Native
902	-	H3 - H6 Parking	4,218	From H3 - H6 Access Road (Route 100)	Native
903	-	H9 Parking	1,379	From H3 - H6 Access Road (Route 100)	Gravel
904	-	H7 HC Parking	1,556	From H7 Access Road (Route 102)	Gravel
905	-	H10 - H13 Parking	9,904	From Schrimpf Road	Gravel
906	-	U1 - U2 Parking	7,132	From Mcnerney Road	Gravel
907	-	U3 - U4 Parking	3,504	From Mcnerney Road	Gravel
908	-	Observation Tower Parking	9,989	From Vendel Road (Route 103)	Gravel
910	-	HQ/ VC RV Overflow Parking	18,308	From Dike Road surrounds 419 and 420 (Route 409)	Gravel

# CHANGES TO THE FISH AND WILDLIFE SERVICE ROAD INVENTORY REPORT

## Sonny Bono Salton Sea NWR

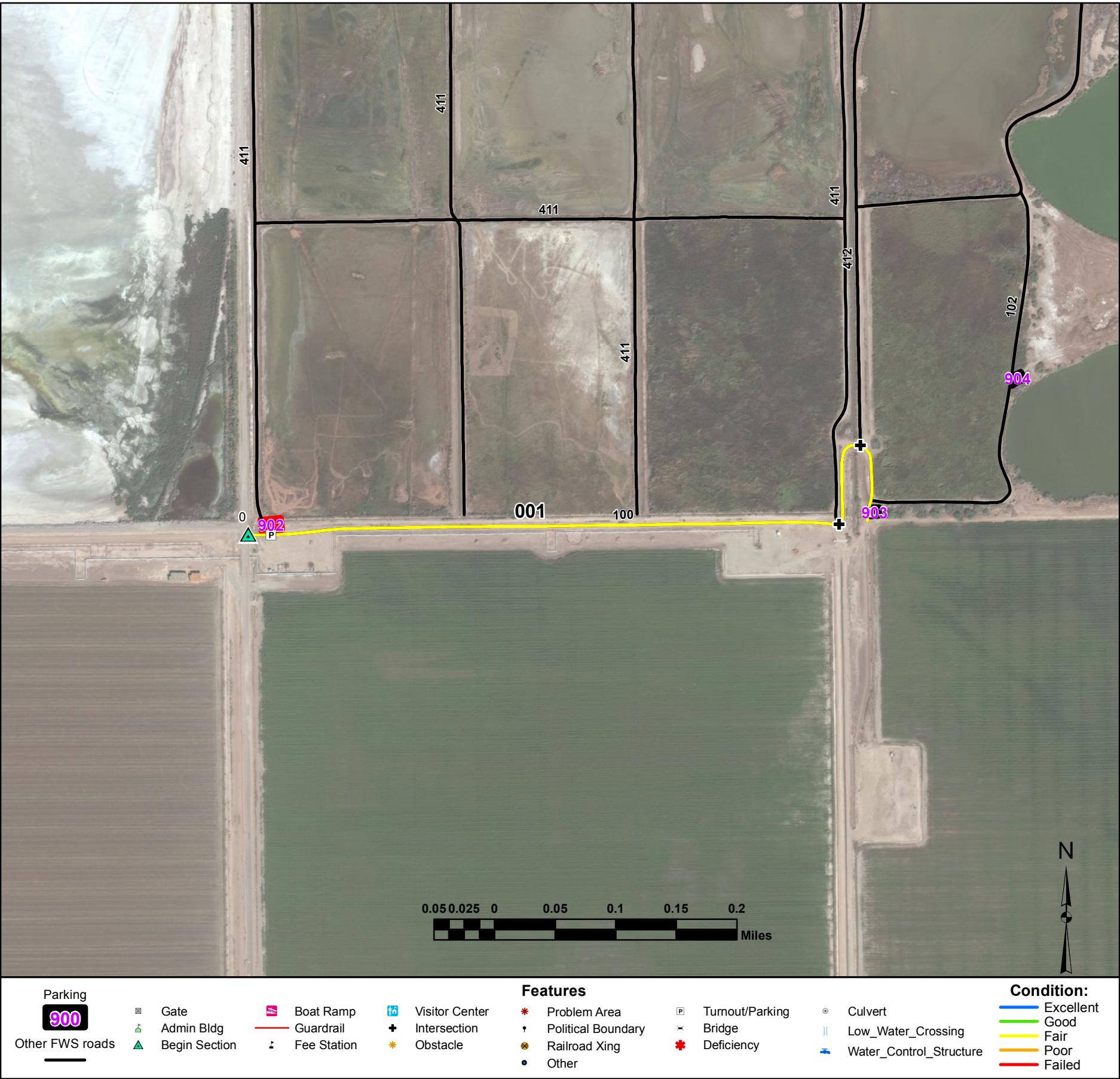
Routes added to previous inventory:		
Rte #	Rte Name	Reason For Addition
400	1-4 A Ponds Road (Includes Sea Wall)	New Administrative Route
401	1-5 B Ponds Road (Includes Sea Wall)	New Administrative Route
402	Reidman Ponds 1-4 Perimeter Road	New Administrative Route
403	Pond 257 Perimeter Road	New Administrative Route
404	North and South Johnson Road	New Administrative Route
405	North, Middle and South Flammang Fields Road	New Administrative Route
406	Headquarters Ponds B, C, and D Road	New Administrative Route
407	Sea Wall Road	New Administrative Route
408	Dike Road that surround Union 461 and the Yuma Clapper Rail Pond	New Administrative Route
409	Dike that surrounds 419 and 420	New Administrative Route
410	Dike Road that surrounds Hazard Ponds 10-11/12	New Administrative Route
411	Dike Road that surrounds all ponds in Hazard 1-6, 1A-3A	New Administrative Route
412	Dike Road that surrounds Hazard 7-9	New Administrative Route
800	Shop A Parking	New Administrative Route
801	Shop B Parking	New Administrative Route
802	Equipment Parking	New Administrative Route

Routes removed from previous inventory:		
Rte #	Rte Name	Reason For Removal
909	H8 Parking	currently used as road
101	Hazard Lake Road	not owned by refuge

Routes modified from previous inventory:			
Rte #	Rte Name	Type of Modification	Description of Modification
100	H3 - H6 Access Road	Geometry Change	
103	Vendel Road	Geometry Change	
908	Observation Tower Parking	Geometry Change	
901	H1-H2a Parking	Surface Change	
902	H3 - H6 Parking	Surface Change	

Comments:

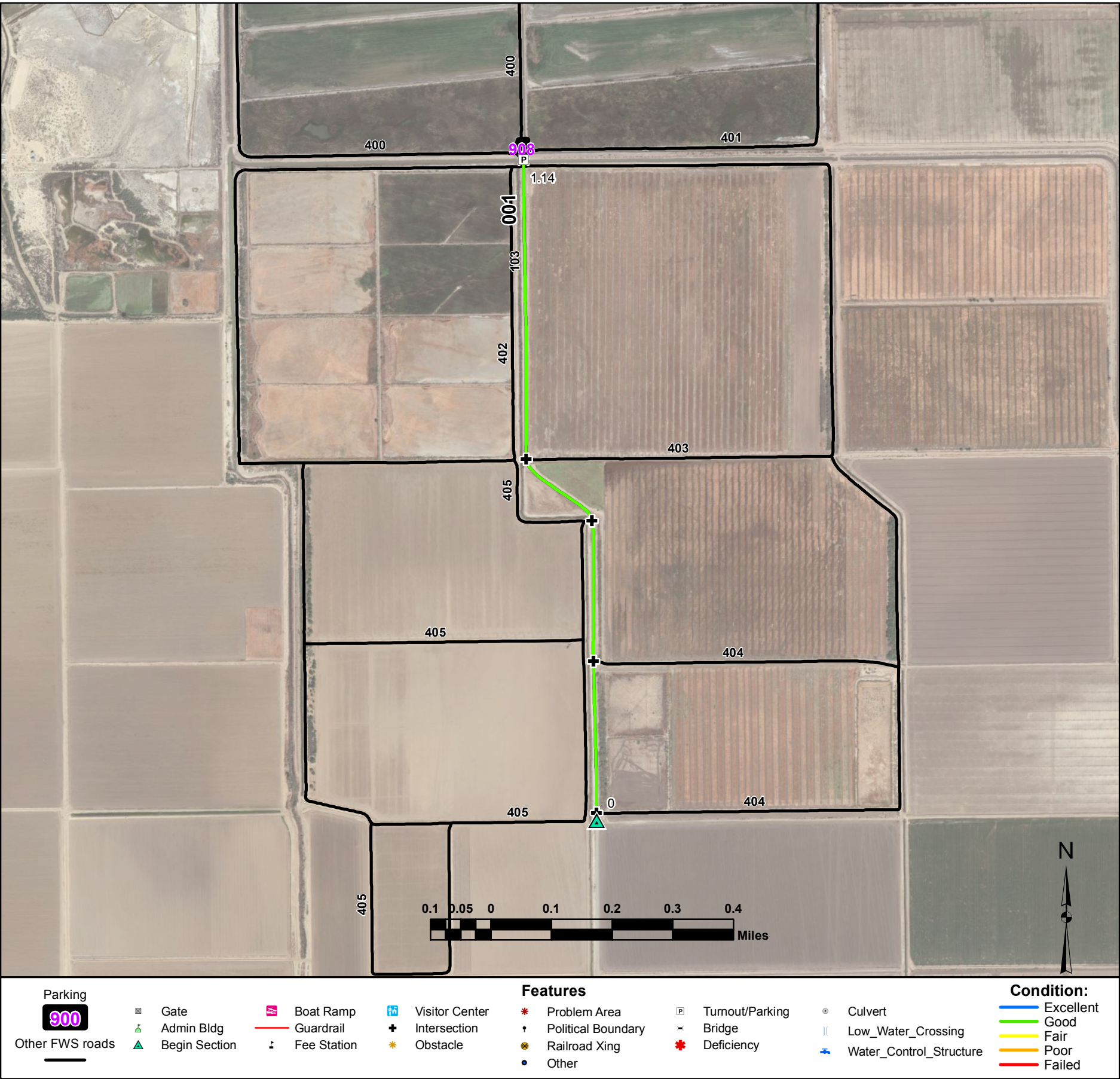




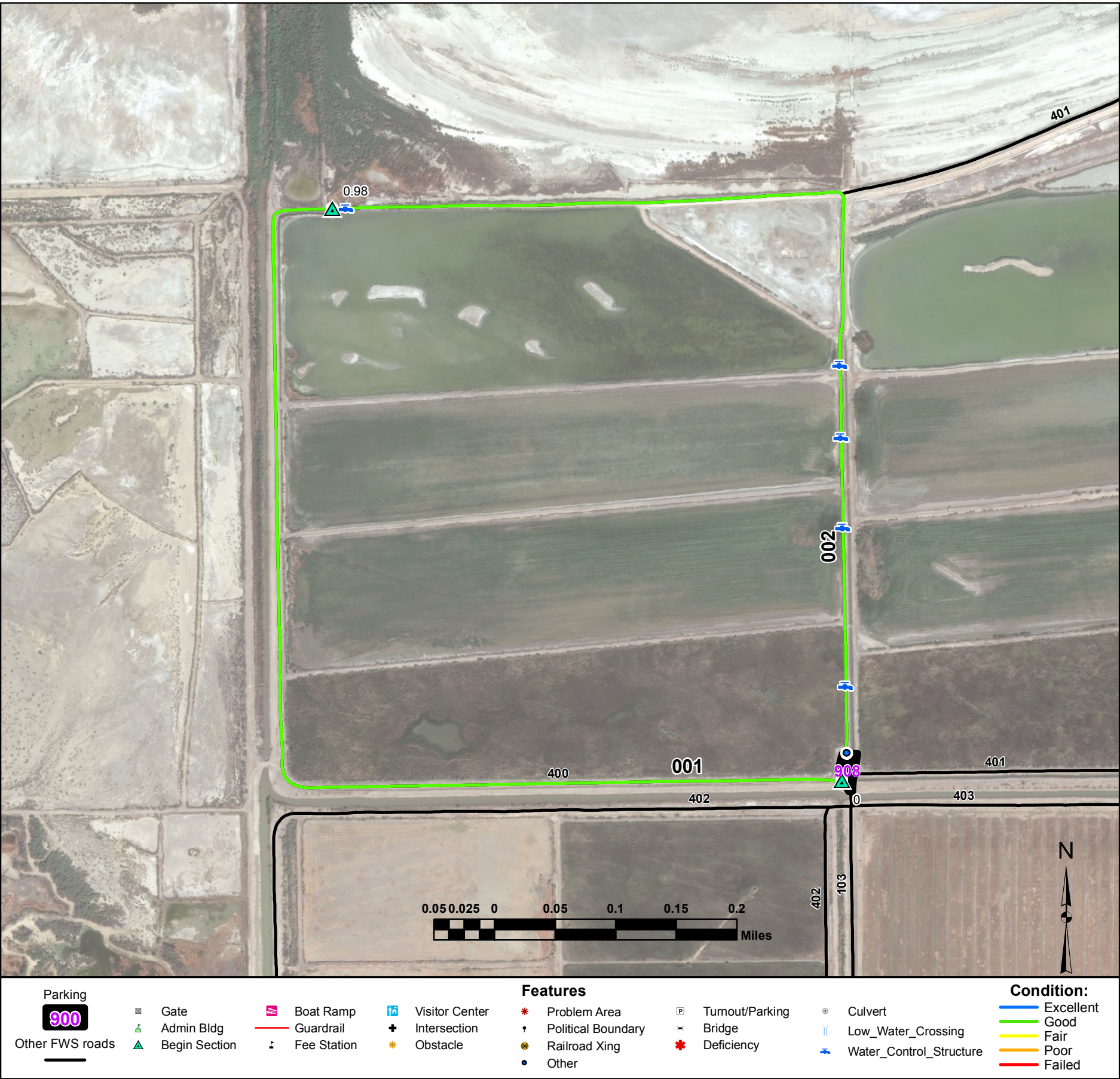




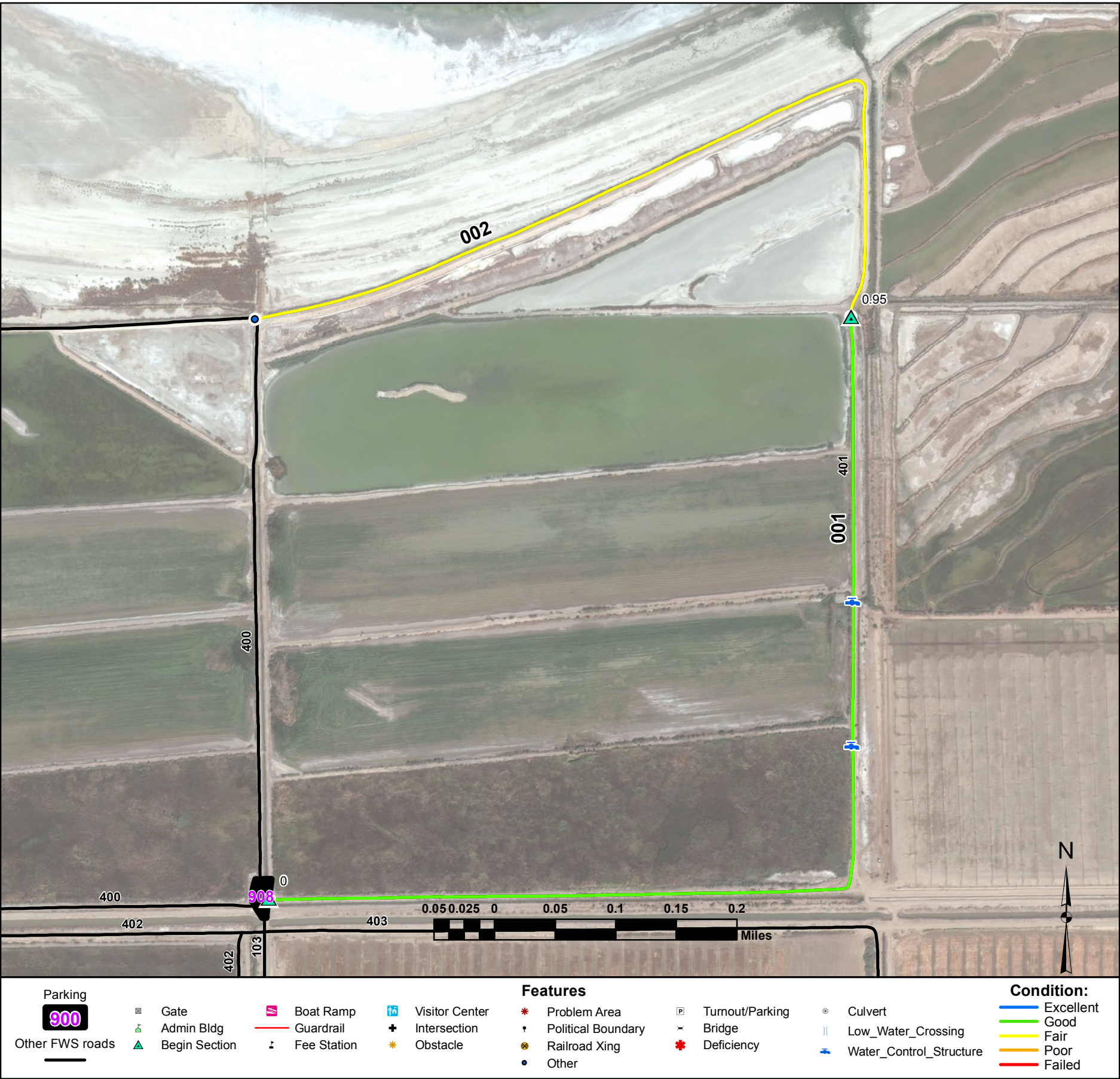




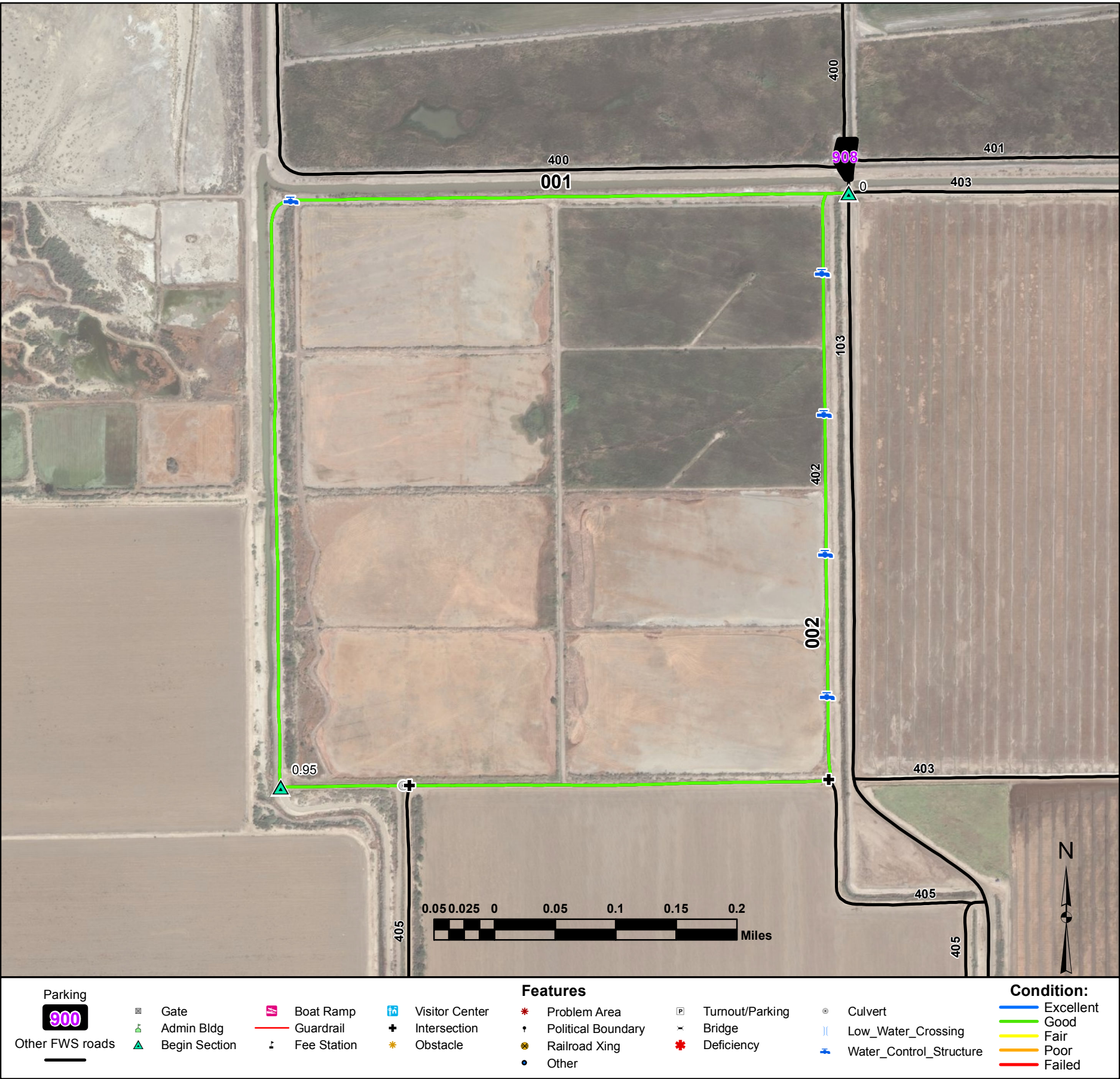




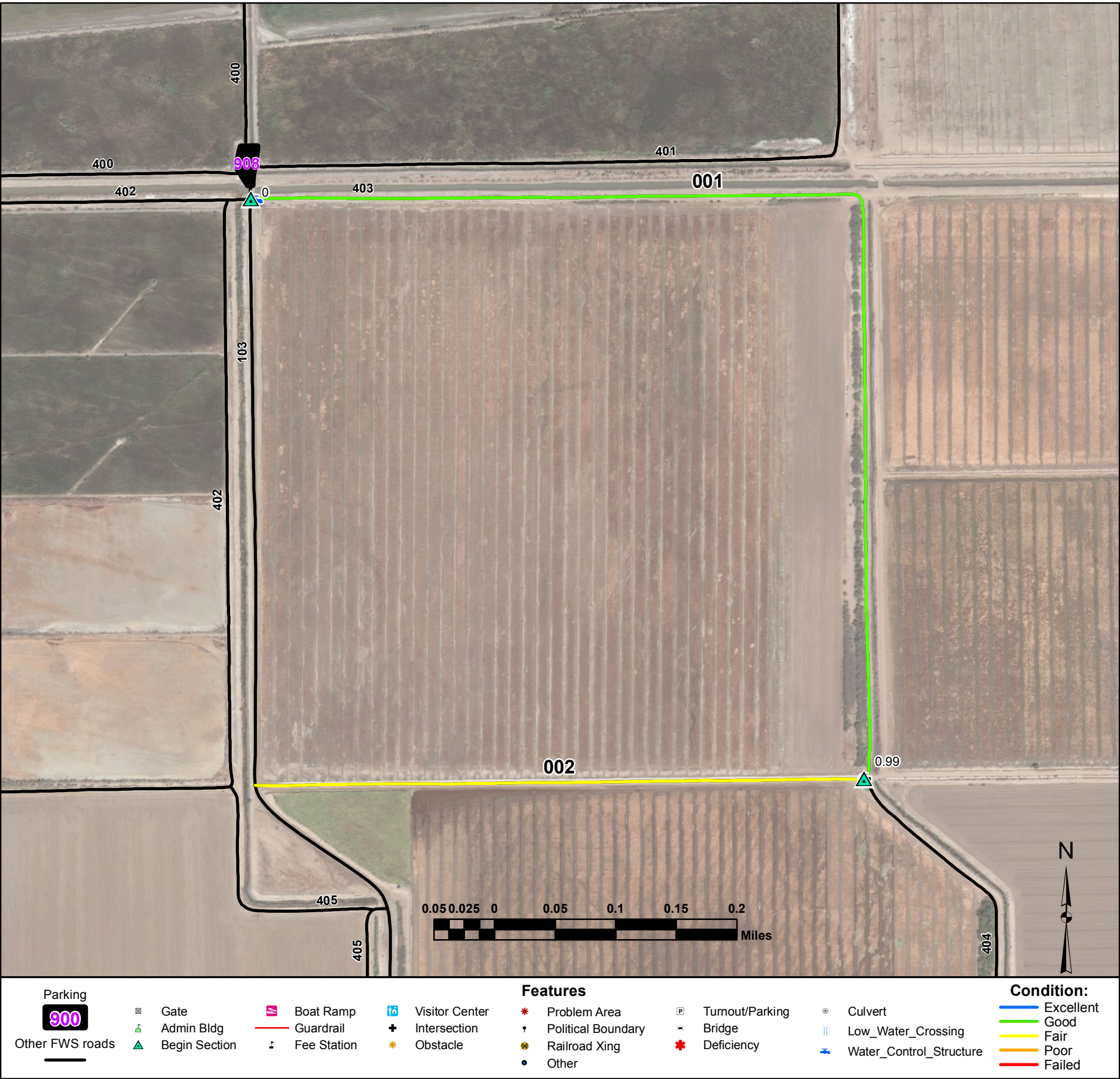












Culvert

Low\_Water\_Crossing

Water\_Control\_Structure

Excellent

Good

Fair

Poor

Failed

Pond 257 Perimeter Road

From Vendal Road (Route 103) around Pond 257

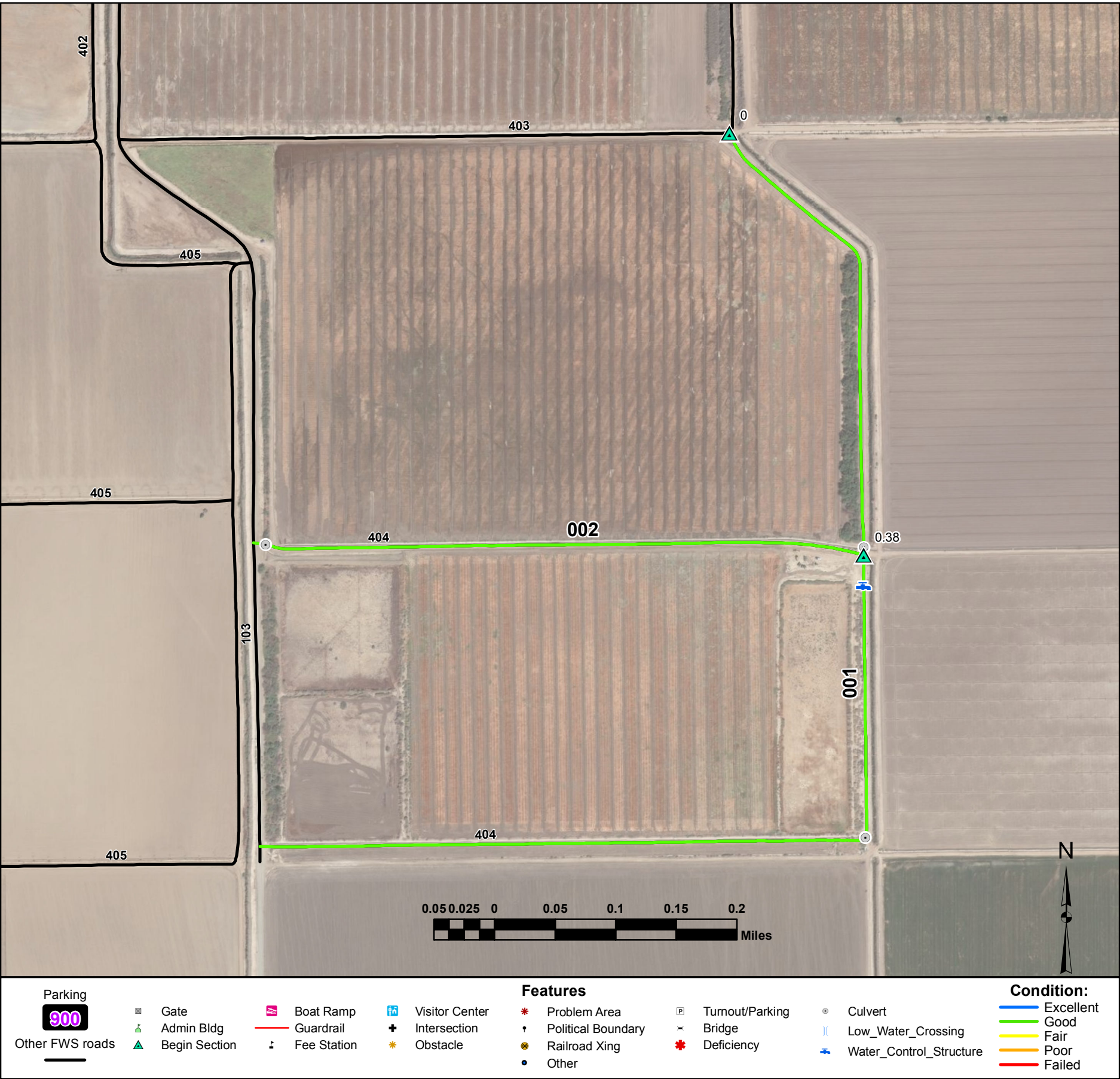
Route Number: 403

Total Route Mileage: 1.49

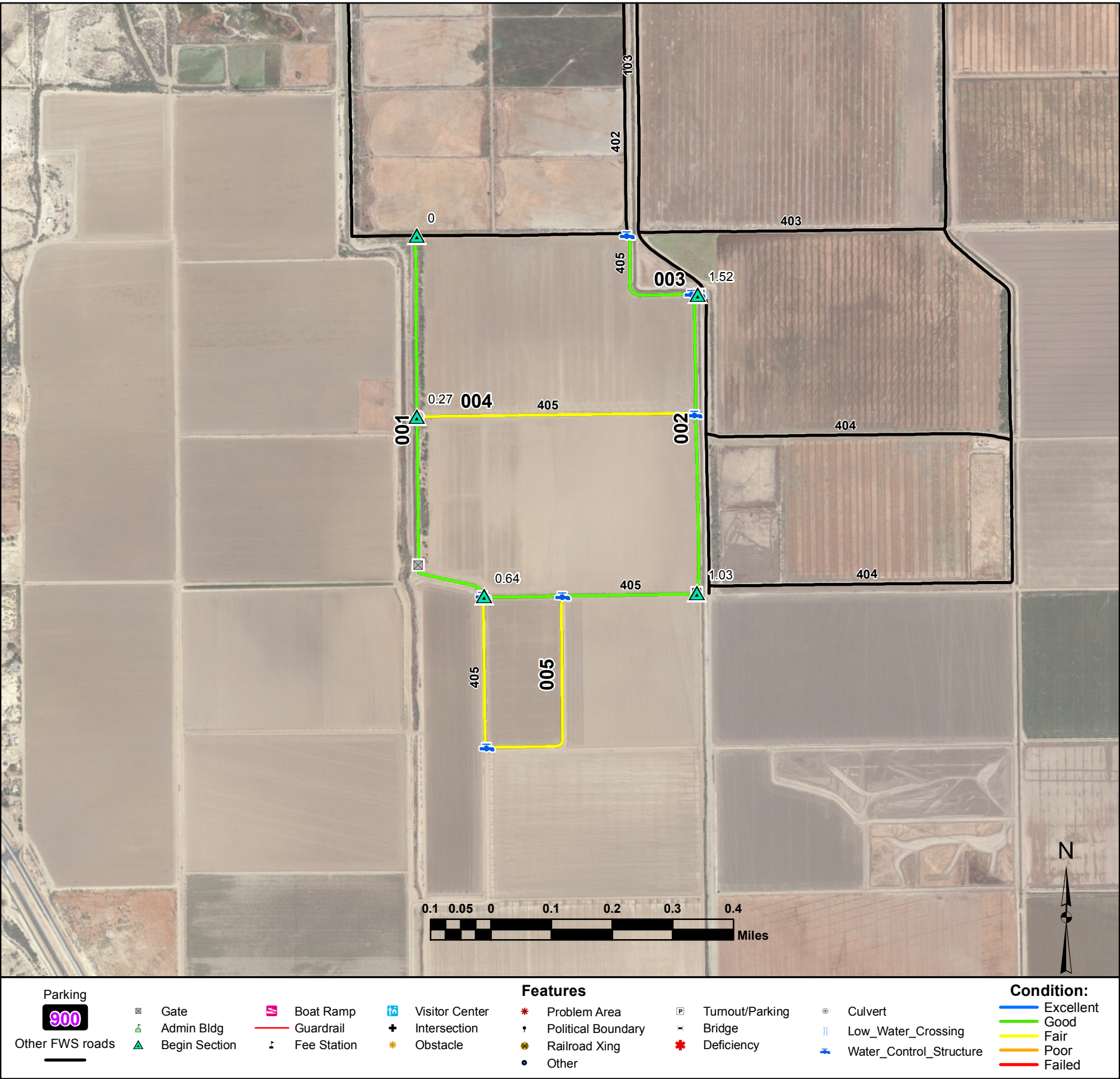
Asset Number	10000672	10000672			
Section Number	001	002			
Section Length (miles)	0.99	0.50			
Inspection Date	12-07-2011	12-07-2011			
Surface Type	Native	Native			
Number of Lanes	1	1			
Roadway Width (feet)	14	14			
Condition	Good	Fair			
Remaining Service Life (years)	5	4			
Estimated Cost to Repair	\$2,000	\$1,300			
Current Replacement Value	\$414,800	\$211,200			

Features	Mile Post	Features	Mile Post	Features	Mile Post	Features	Mile Post
Begin Section	001-0.0						
Water Control Structure	001-0.0						
Culvert	001-0.99						
Intersection	002-0.98						
Begin Section	002-0.99						





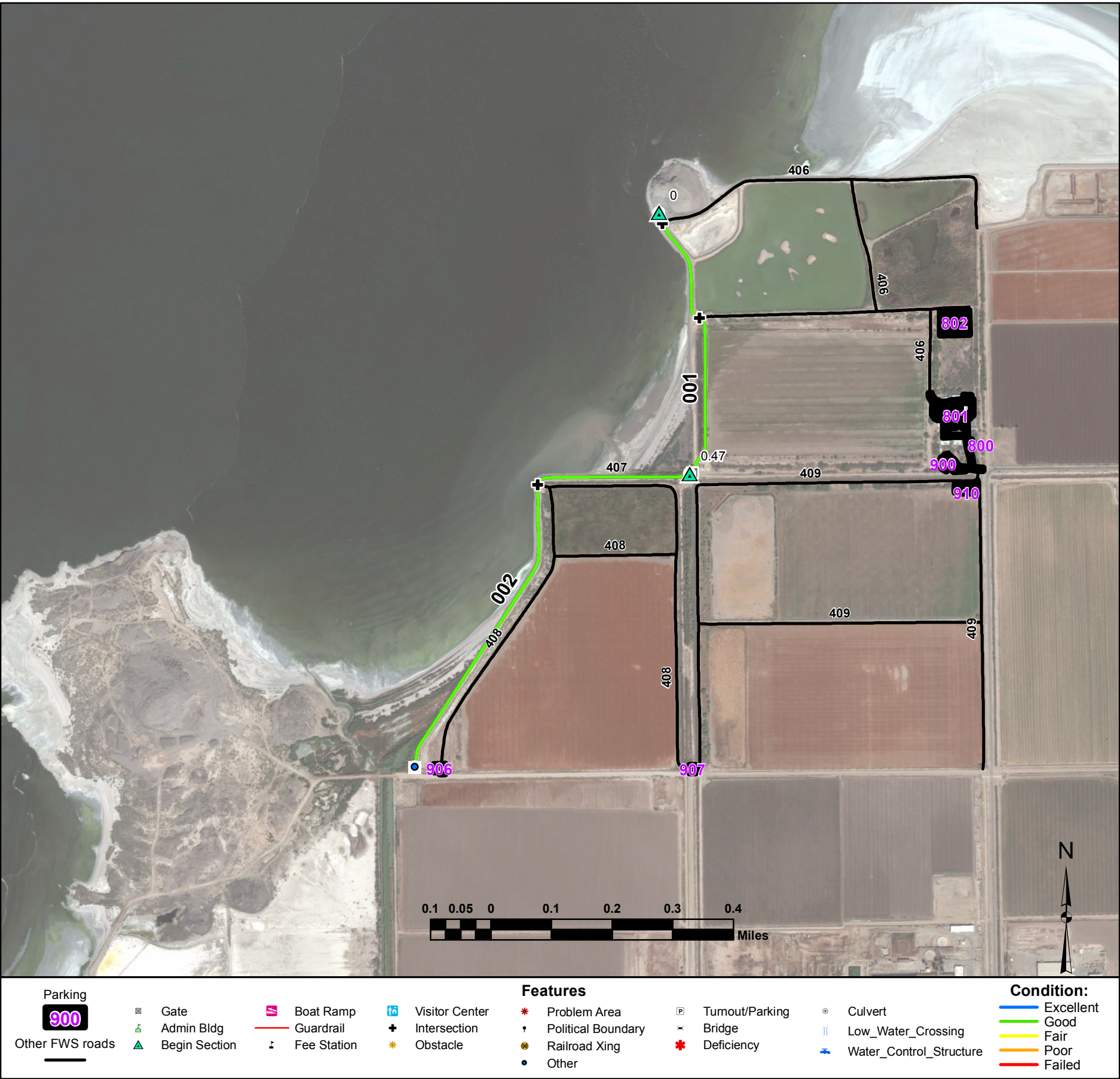












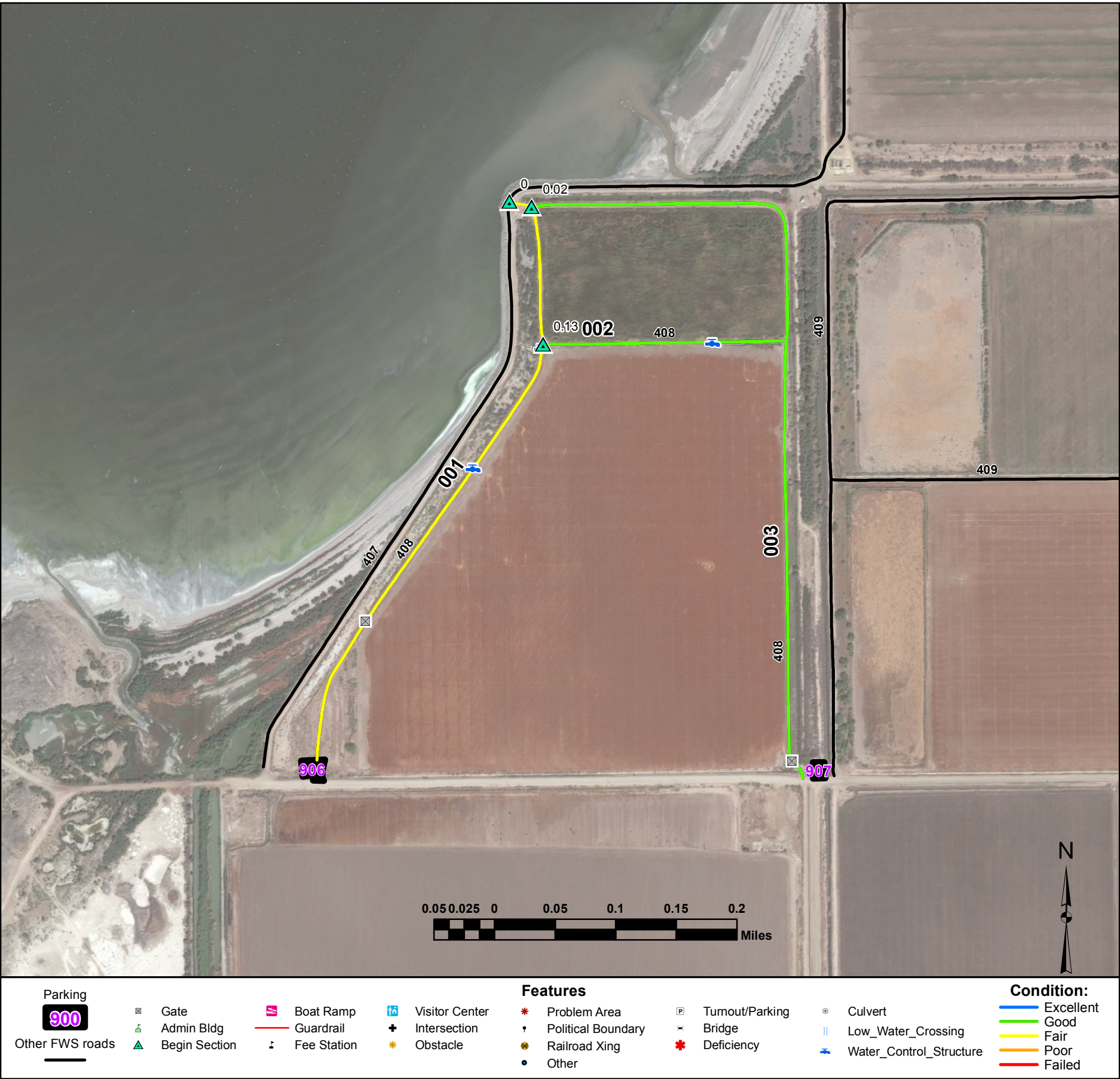
**Sea Wall Road**  
From Headquarter Ponds B,C, and D Road (Route 406) to Mcnerney Road

Route Number: 407Total Route Mileage: 1.25

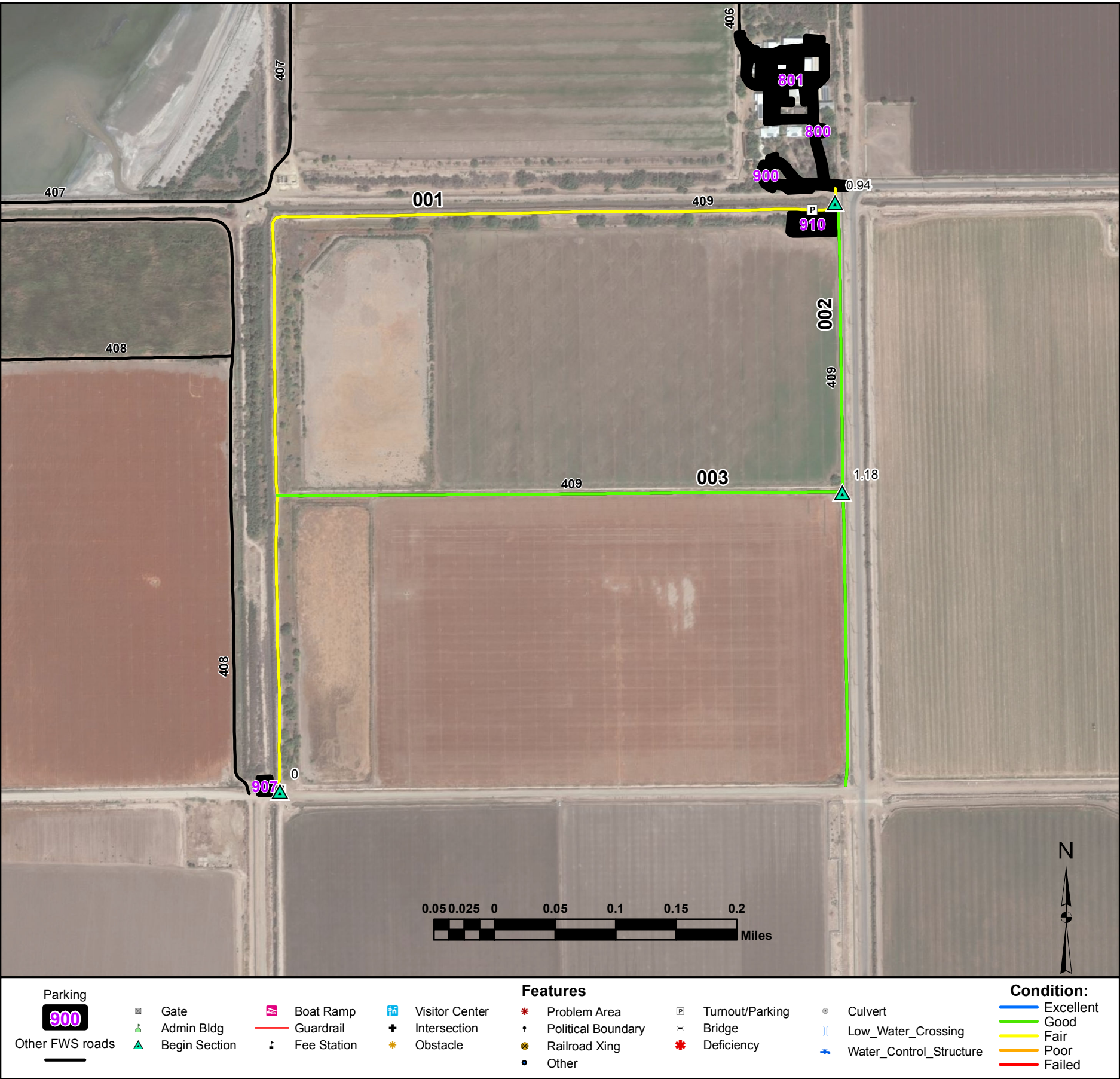
Asset Number	10000641	10000641			
Section Number	001	002			
Section Length (miles)	0.47	0.78			
Inspection Date	12-07-2011	12-07-2011			
Surface Type	Gravel	Gravel			
Number of Lanes	1	1			
Roadway Width (feet)	12	12			
Condition	Good	Good			
Remaining Service Life (years)	5	7			
Estimated Cost to Repair	\$900	\$1,500			
Current Replacement Value	\$378,500	\$635,600			

Features	Mile Post	Features	Mile Post	Features	Mile Post	Features	Mile Post
Begin Section	001-0.0						
Other	001-0.0						
Intersection	001-0.02						
Intersection	001-0.2						
Gate	001-0.46						
Other	001-0.46						
Intersection	001-0.74						
Begin Section	002-0.47						
Other	002-0.47						
Gate	002-1.25						
Other	002-1.25						

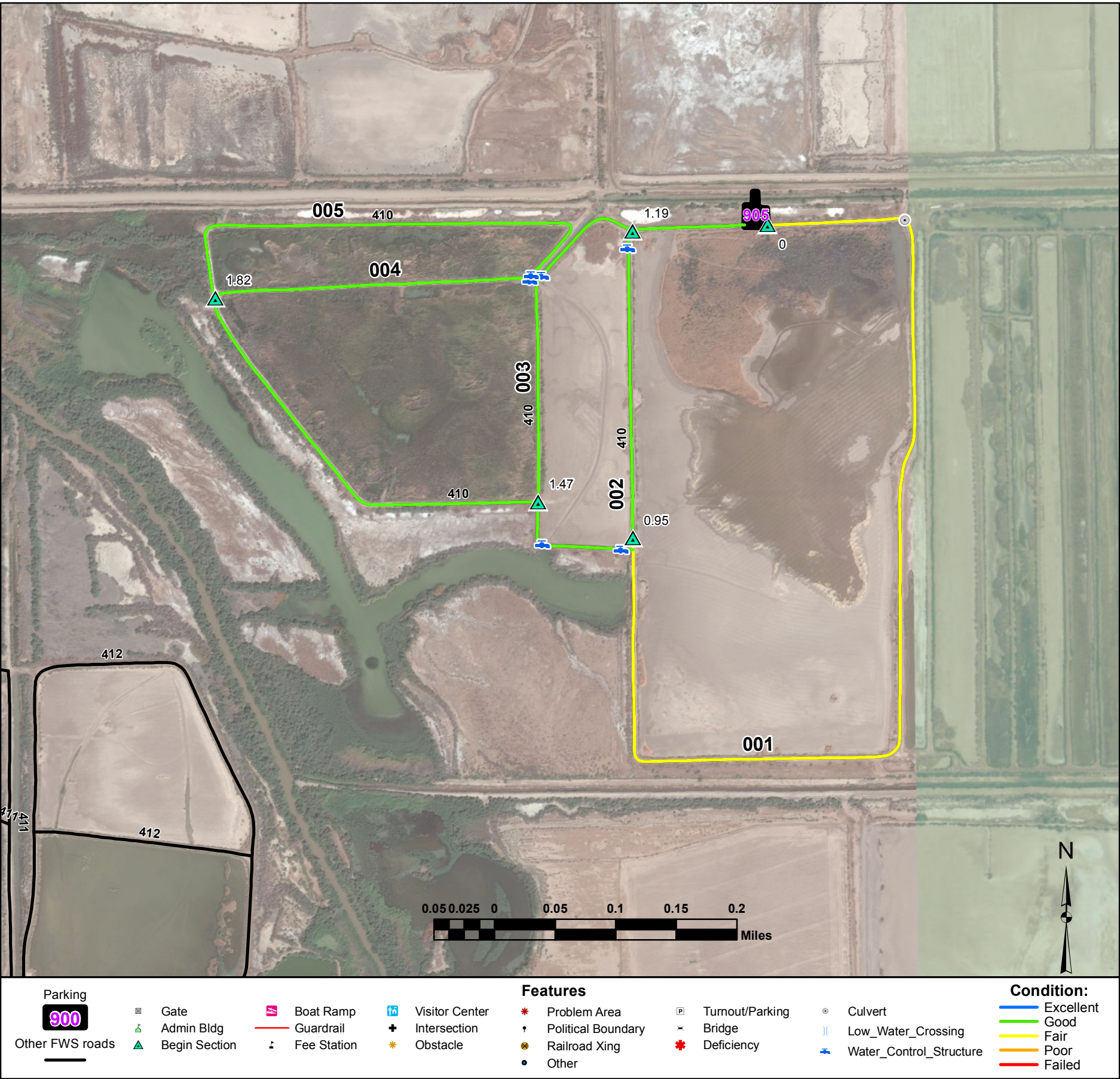












Dike Road that surrounds Hazard Ponds 10-11/12

To H10 - H13 Parking (Route 905) around Hazard Ponds 10-11/12

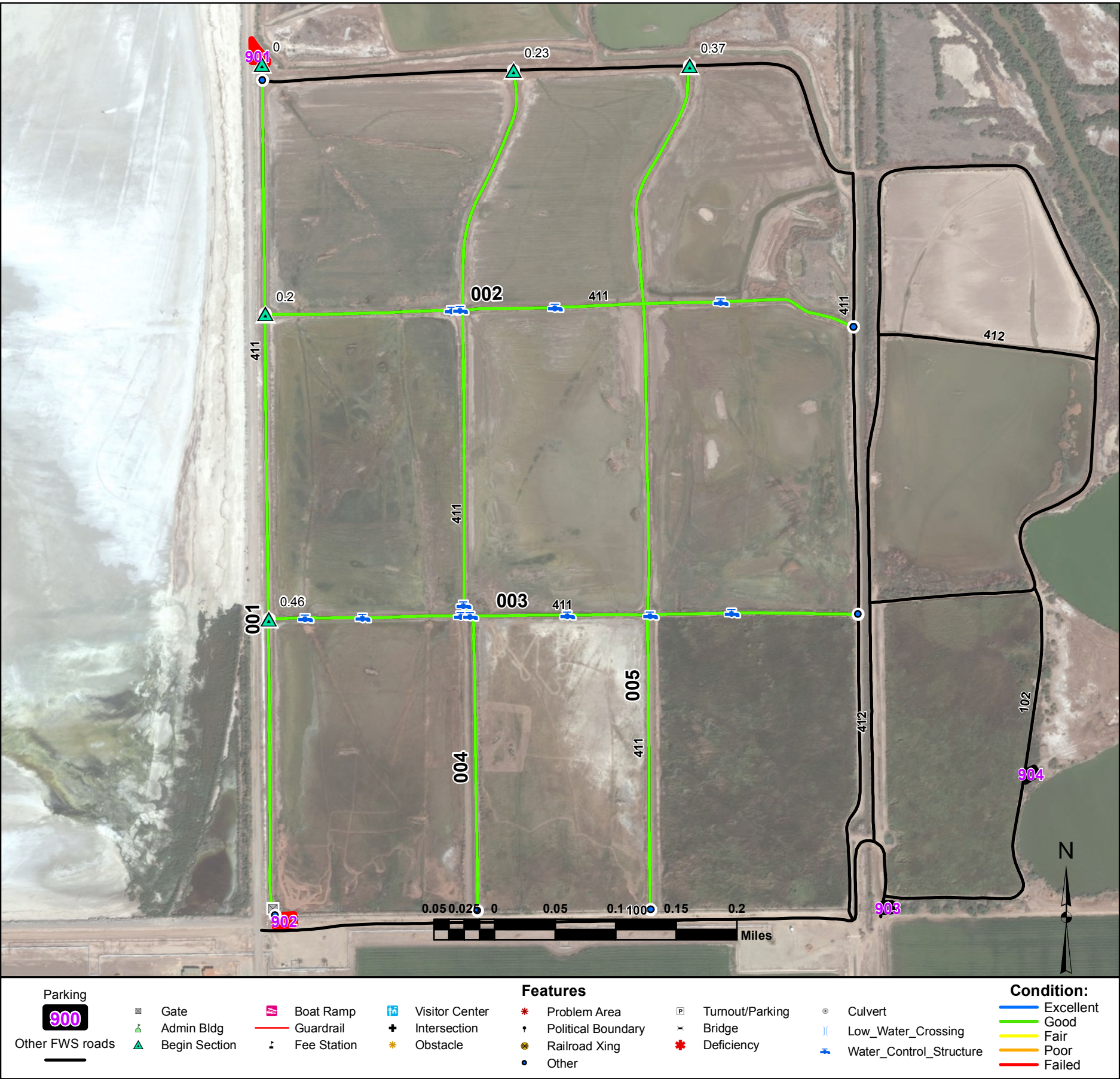
Route Number: 410

Total Route Mileage: 2.74

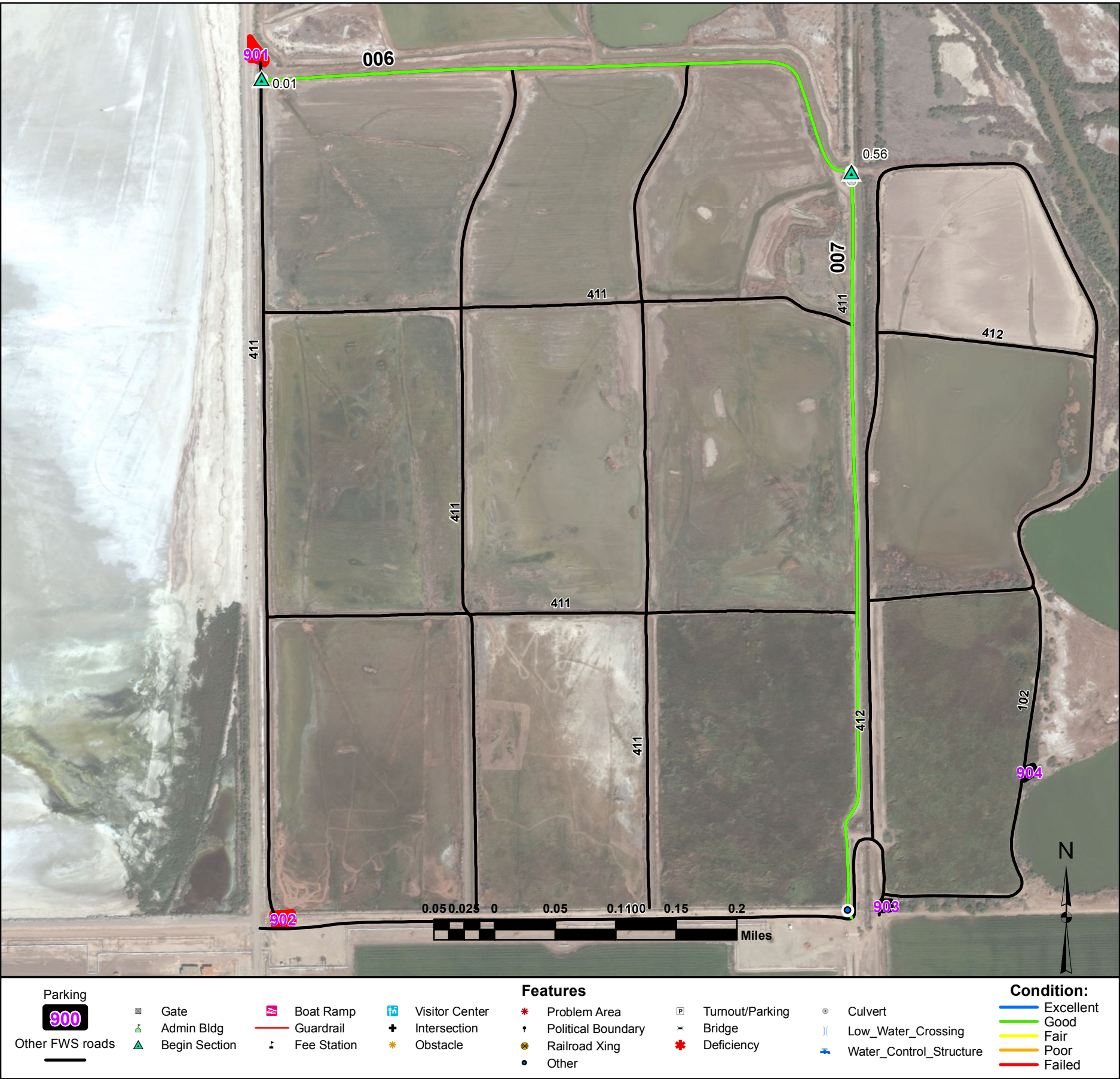
Asset Number	10000656	10000656	10000656	10000656	10000656
Section Number	001	002	003	004	005
Section Length (miles)	0.95	0.35	0.40	0.62	0.42
Inspection Date	12-08-2011	12-08-2011	12-08-2011	12-08-2011	12-08-2011
Surface Type	Native	Native	Native	Native	Native
Number of Lanes	1	1	1	1	1
Roadway Width (feet)	12	12	12	12	12
Condition	Fair	Good	Good	Good	Good
Remaining Service Life (years)	4	5	5	5	5
Estimated Cost to Repair	\$2,400	\$700	\$800	\$1,300	\$800
Current Replacement Value	\$401,000	\$145,800	\$166,600	\$262,400	\$175,100

Features	Mile Post	Features	Mile Post	Features	Mile Post	Features	Mile Post
Begin Section	001-0.0						
Culvert	001-0.13						
Begin Section	002-0.95						
Water Control Structure	002-1.18						
Begin Section	003-1.19						
Water Control Structure	003-1.3						
Water Control Structure	003-1.51						
Water Control Structure	003-1.58						
Begin Section	004-1.47						
Water Control Structure	004-2.09						
Begin Section	005-1.82						
Water Control Structure	005-2.23						

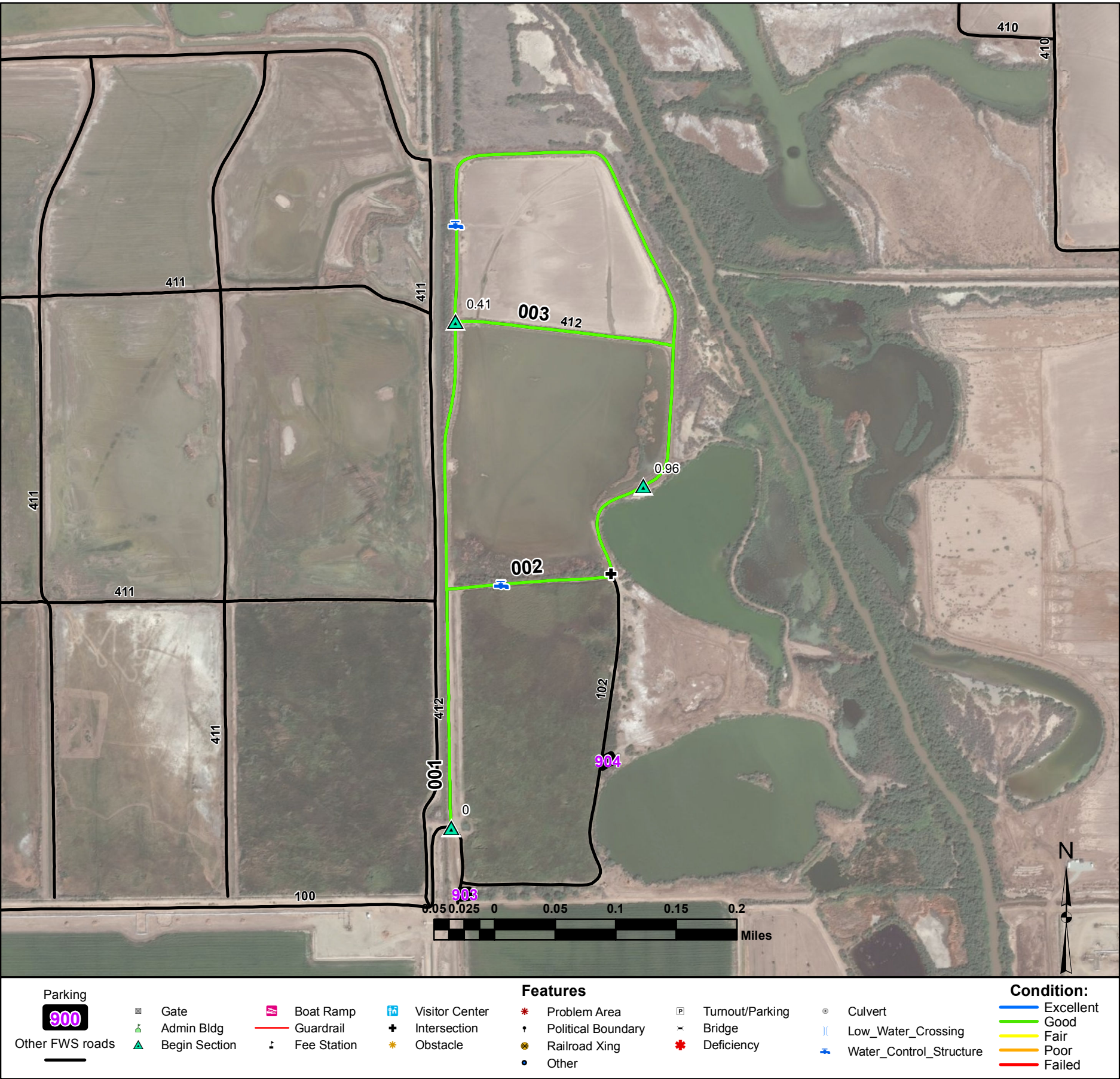












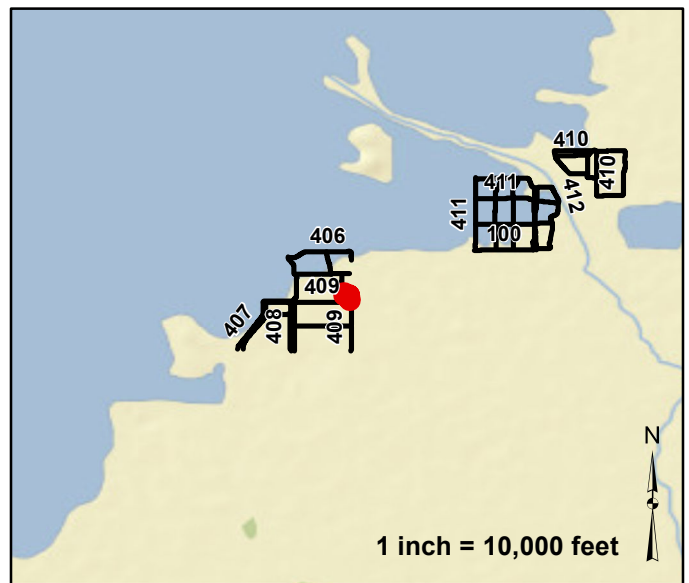
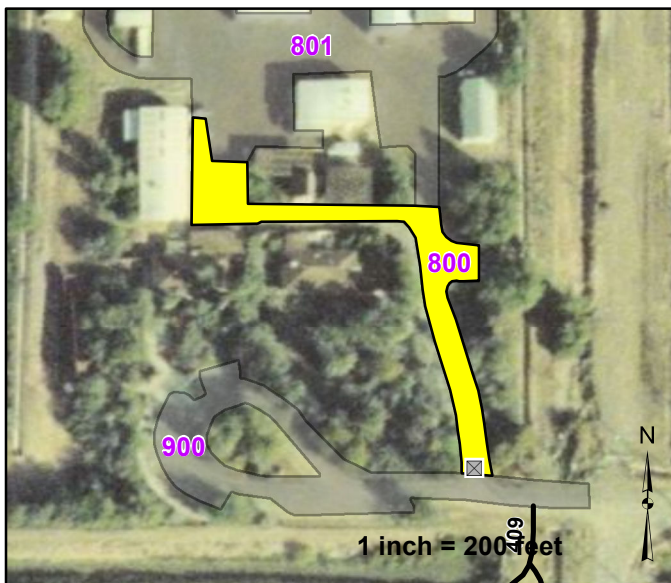


## Route Number:800

### Shop A Parking

From HQ/ VC Parking (Route 900)

Asset Number	Area	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
10000666	14118	Fair	Asphalt	\$14,200	12-07-2011	\$150,900



Parking		Features				Condition:	
Other FWS roads							

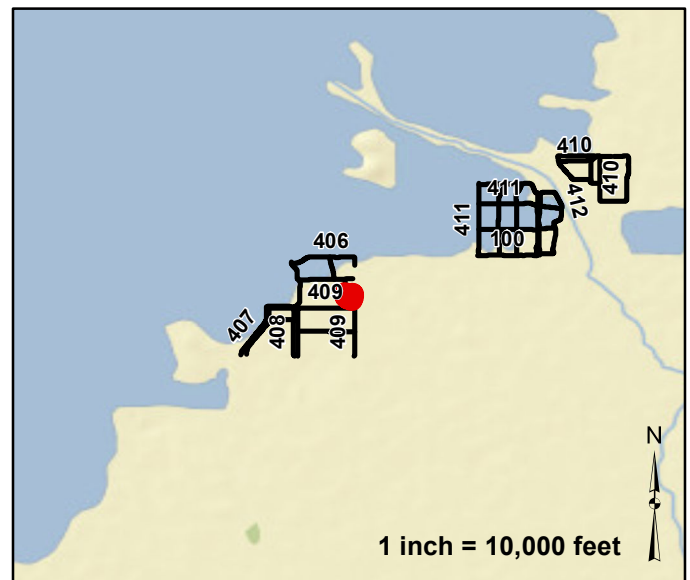
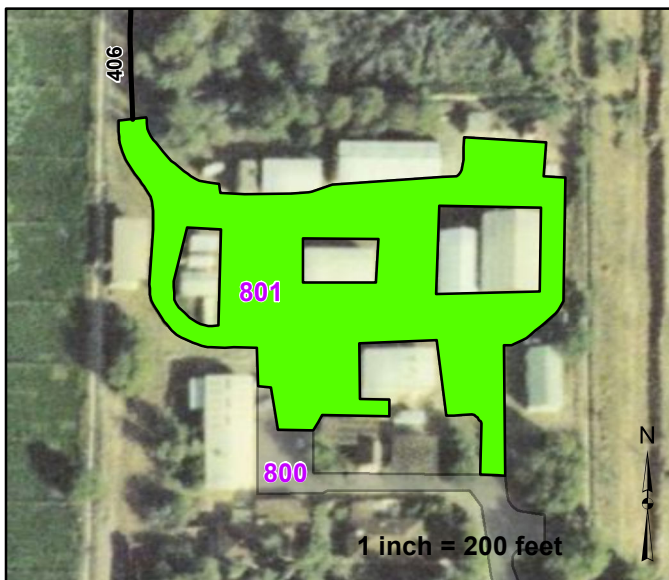


## Route Number:801

### Shop B Parking

From Shop A Parking (Route 800)

Asset Number	Area	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
10000666	62230	Good	Gravel	\$11,000	12-08-2011	\$363,100



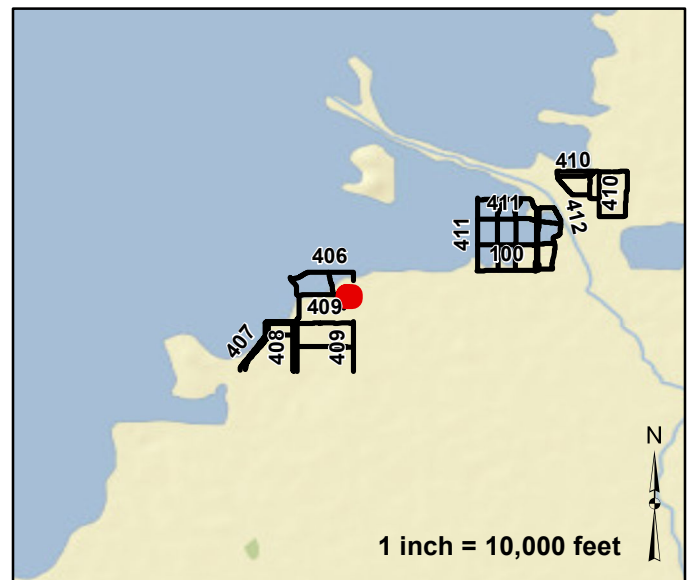
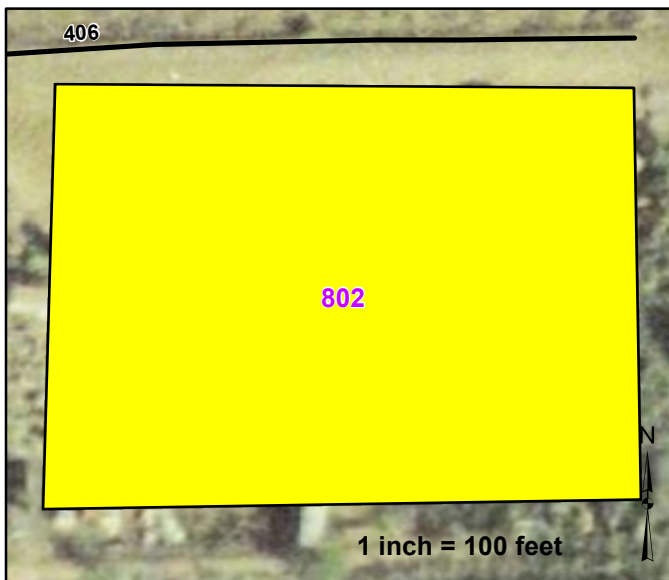
Parking		Features				Condition:	
	Gate		Boat Ramp		Visitor Center		Excellent
	Admin Bldg		Guardrail		Other		Good
	Begin Section		Fee Station		Problem Area		Fair
					Culvert		Poor
					Low_Water_Crossing		Failed
					Water_Control_Structure		

## Route Number:802

### Equipment Parking

From Headquarter Ponds B,C, and D Road (Route 406)

Asset Number	Area	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
-	55711	Fair	Gravel	\$17,400	12-08-2011	\$325,000



Parking		Features		Condition:	
	Gate		Visitor Center		Excellent
	Admin Bldg		Other		Good
	Begin Section		Problem Area		Fair
					Poor
					Failed
					Culvert
					Low_Water_Crossing
					Water_Control_Structure

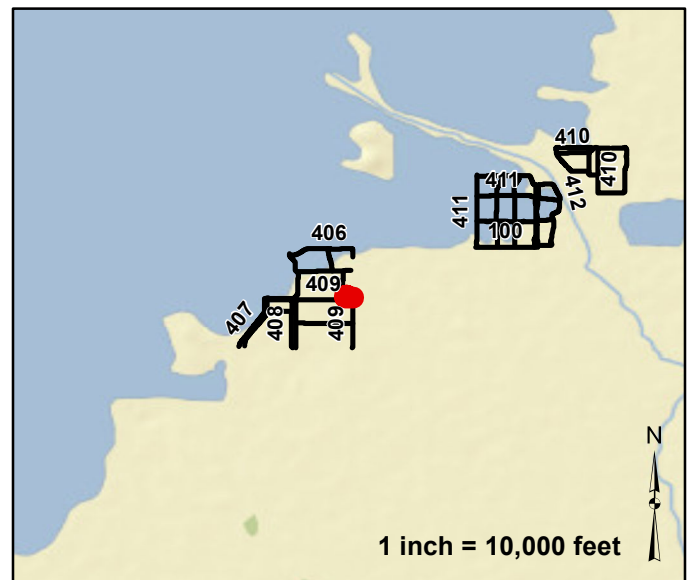
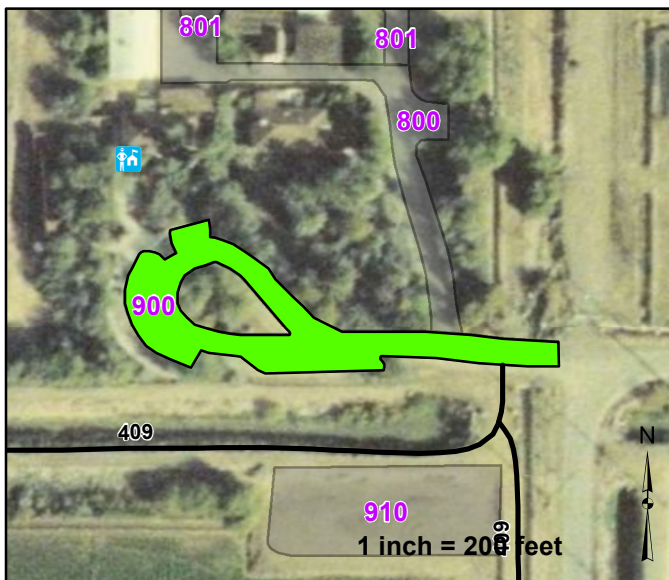


## Route Number:900

### HQ/ VC Parking

From Estelle Road

Asset Number	Area	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
-	19499	Good	Asphalt	\$4,300	12-07-2011	\$208,500



Parking		Features				Condition:	
	Gate		Boat Ramp		Visitor Center		Excellent
	Admin Bldg		Guardrail		Other		Good
	Begin Section		Fee Station		Problem Area		Fair
	Other FWS roads				Culvert		Poor
					Low_Water_Crossing		Failed
					Water_Control_Structure		

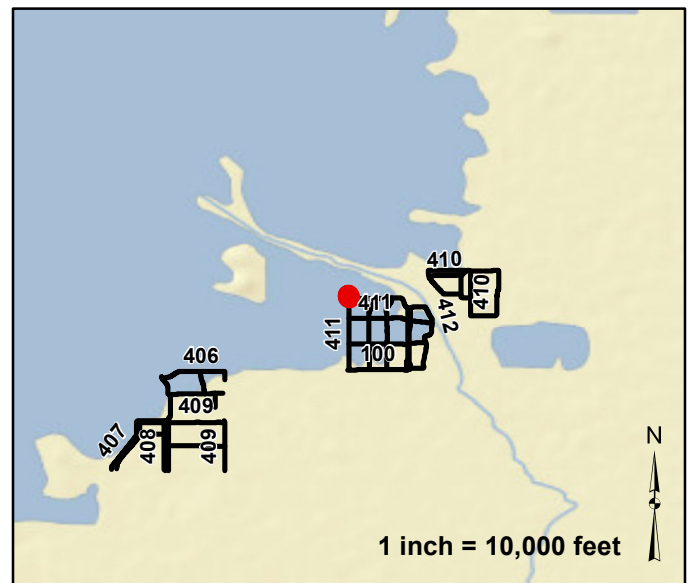


## Route Number:901

### H1- H2a Parking

From Garst Road

Asset Number	Area	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
-	4048	Fair	Native	\$1,300	12-08-2011	\$10,200



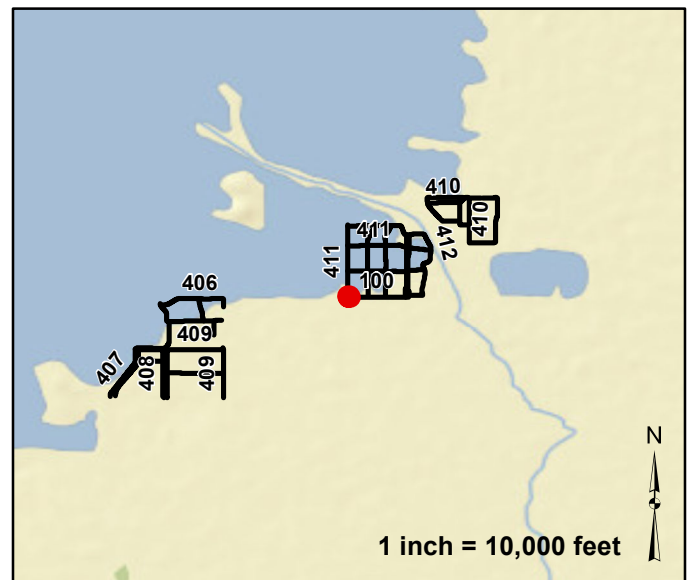
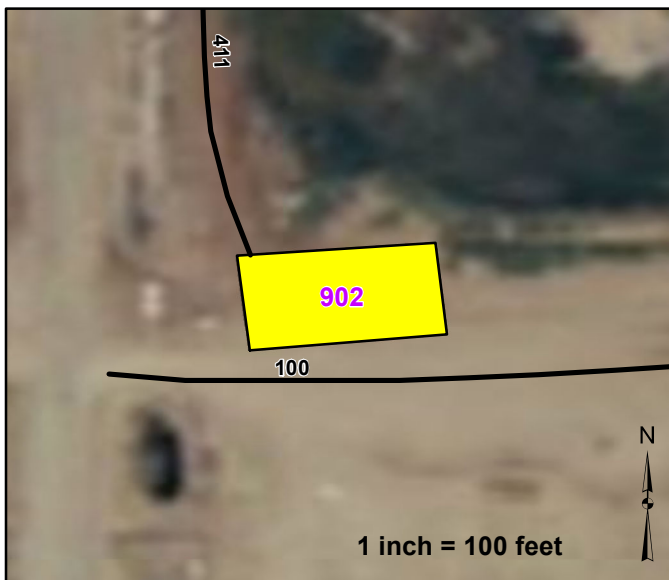
Parking		Features				Condition:	
	Gate		Boat Ramp		Visitor Center		Excellent
	Admin Bldg		Guardrail		Other		Good
	Begin Section		Fee Station		Problem Area		Fair
	Other FWS roads		Culvert		Low_Water_Crossing		Poor
			Water_Control_Structure				Failed

## Route Number:902

### H3 - H6 Parking

From H3 - H6 Access Road (Route 100)

Asset Number	Area	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
-	4218	Fair	Native	\$1,300	12-08-2011	\$10,600



Parking		Features				Condition:	
	Gate		Boat Ramp		Visitor Center		Excellent
	Admin Bldg		Guardrail		Other		Good
	Begin Section		Fee Station		Problem Area		Fair
	Other FWS roads				Culvert		Poor
					Low_Water_Crossing		Failed
					Water_Control_Structure		

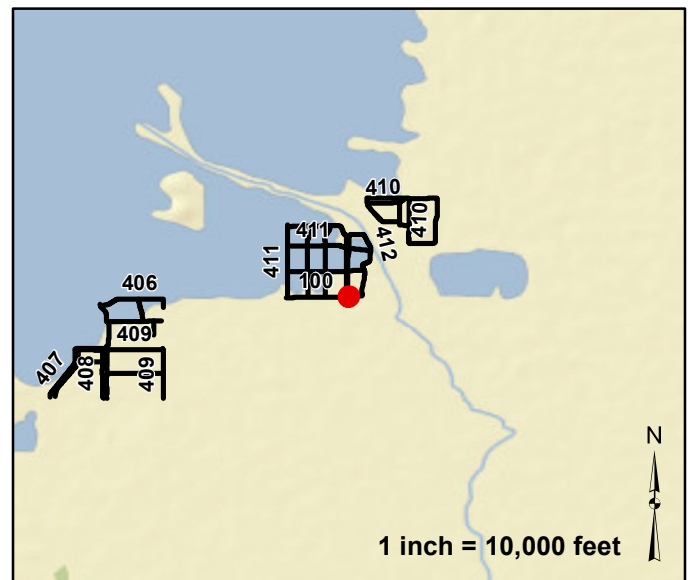


## Route Number:903

### H9 Parking

From H3 - H6 Access Road (Route 100)

Asset Number	Area	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
-	1379	Good	Gravel	\$200	12-08-2011	\$8,000



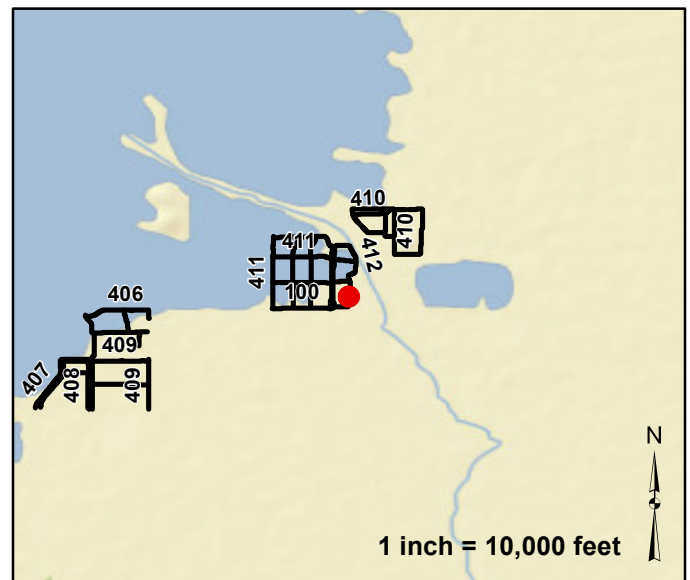
Parking		Features		Condition:	
	Gate		Boat Ramp		Excellent
	Admin Bldg		Guardrail		Good
	Begin Section		Fee Station		Fair
	Other FWS roads		Visitor Center		Poor
			Other		Failed
			Problem Area		
			Culvert		
			Low_Water_Crossing		
			Water_Control_Structure		

## Route Number:904

### H7 HC Parking

From H7 Access Road (Route 102)

Asset Number	Area	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
-	1556	Good	Gravel	\$300	12-08-2011	\$9,100



Parking		Features				Condition:	
	Gate		Boat Ramp		Visitor Center		Excellent
	Admin Bldg		Guardrail		Other		Good
	Begin Section		Fee Station		Problem Area		Fair
	Other FWS roads		Culvert		Low_Water_Crossing		Poor
			Water_Control_Structure				Failed

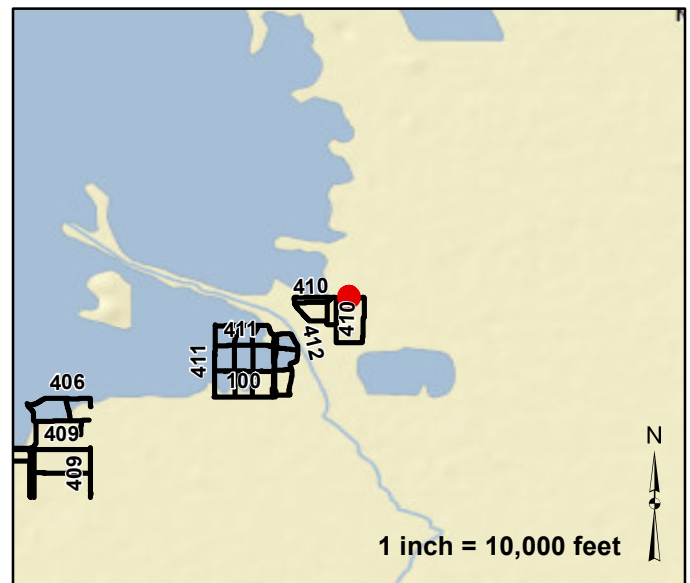
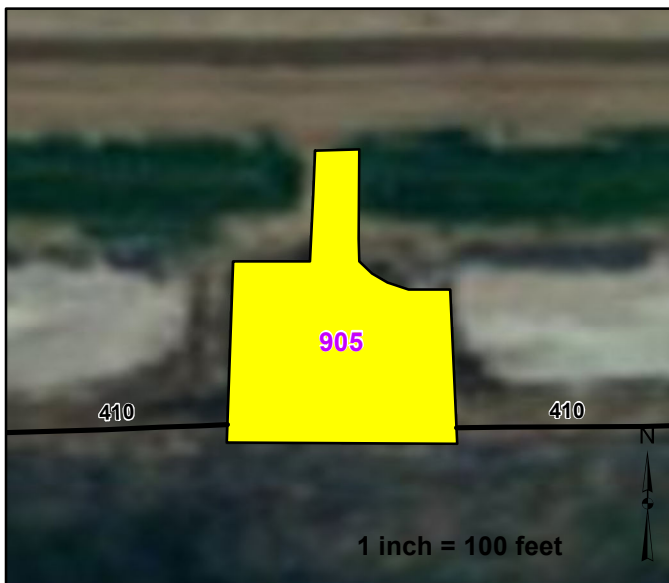


## Route Number:905

### H10 - H13 Parking

From Schrimpf Road

Asset Number	Area	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
-	9904	Fair	Gravel	\$3,100	12-08-2011	\$57,800



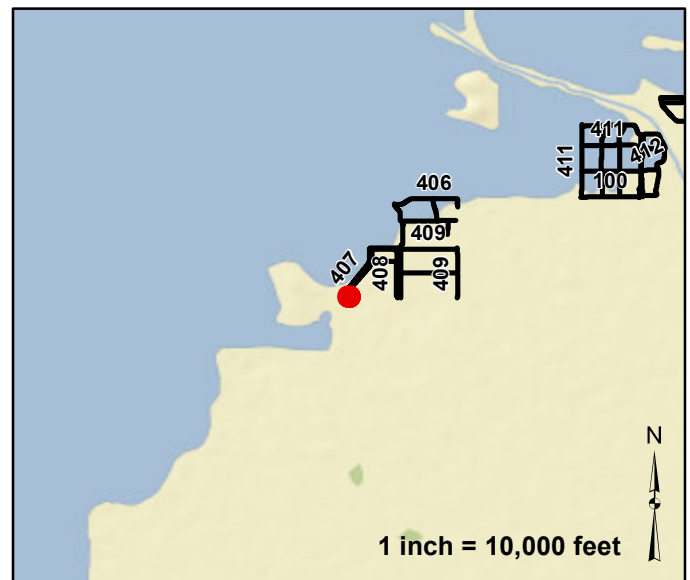
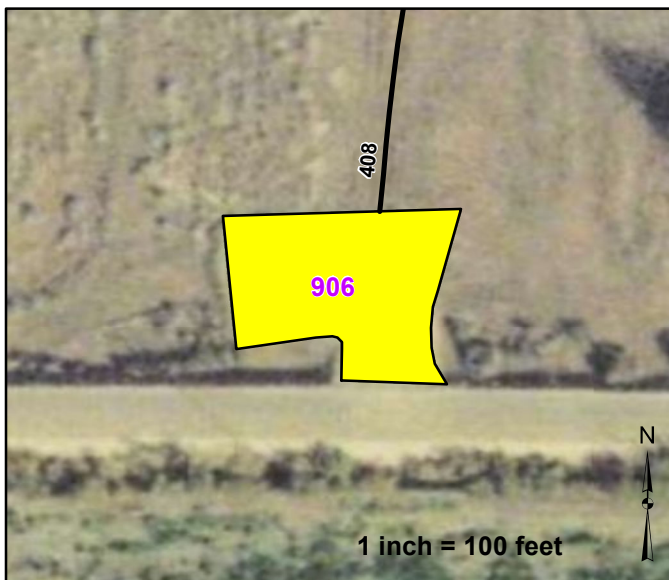
Parking		Features		Condition:	
	Gate		Boat Ramp		Excellent
	Admin Bldg		Guardrail		Good
	Begin Section		Fee Station		Fair
	Other FWS roads		Visitor Center		Poor
			Other		Failed
			Problem Area		
			Culvert		
			Low_Water_Crossing		
			Water_Control_Structure		

## Route Number:906

### U1 - U2 Parking

From Mcnerney Road

Asset Number	Area	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
-	7132	Fair	Gravel	\$2,200	12-07-2011	\$41,600



Parking		Features				Condition:	
	Other FWS roads		Gate		Boat Ramp		Visitor Center
			Admin Bldg		Guardrail		Other
			Begin Section		Fee Station		Problem Area
					Culvert		Low_Water_Crossing
					Water_Control_Structure		
							Excellent
							Good
							Fair
							Poor
							Failed

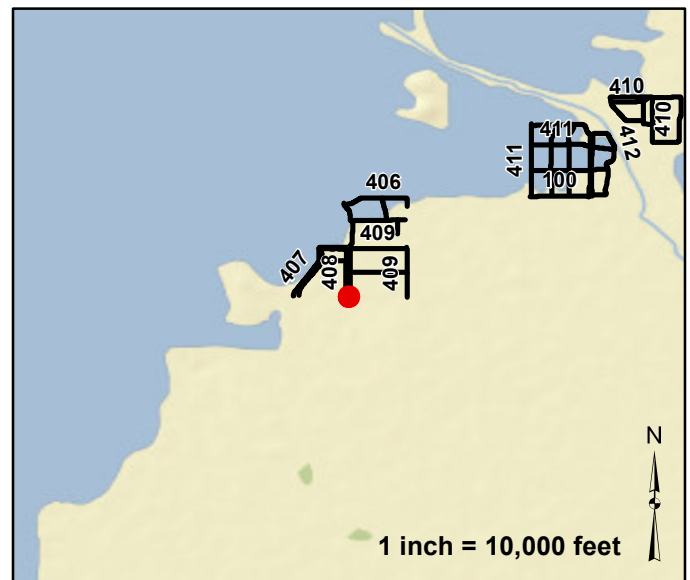
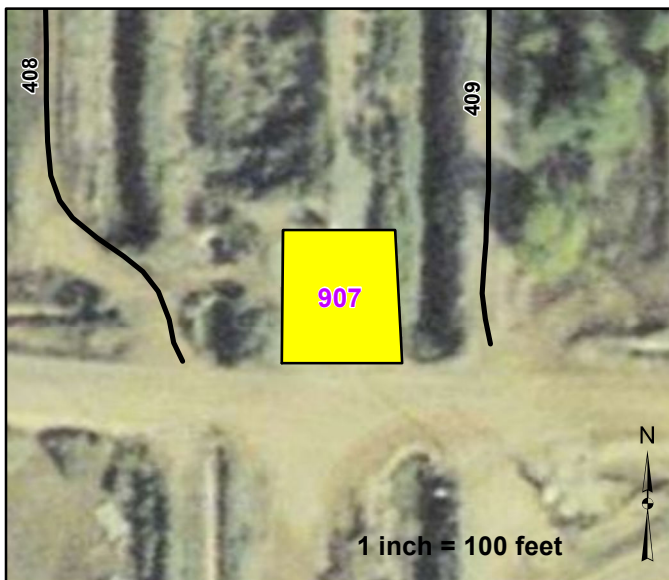


## Route Number:907

### U3 - U4 Parking

From Mcnerney Road

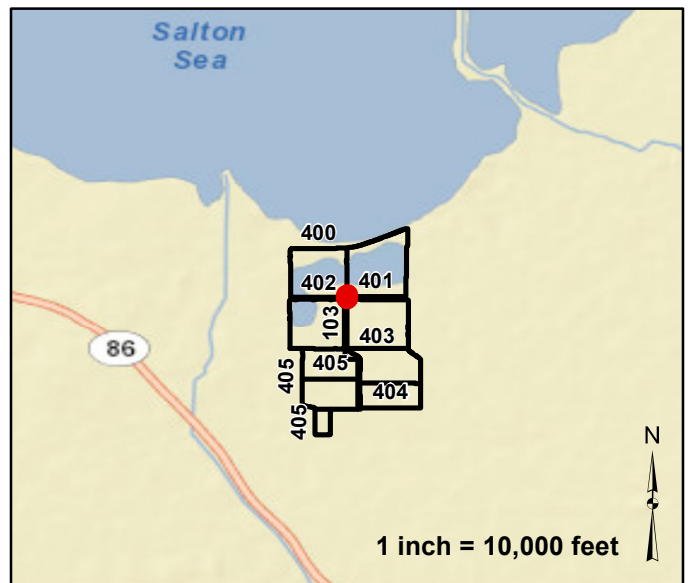
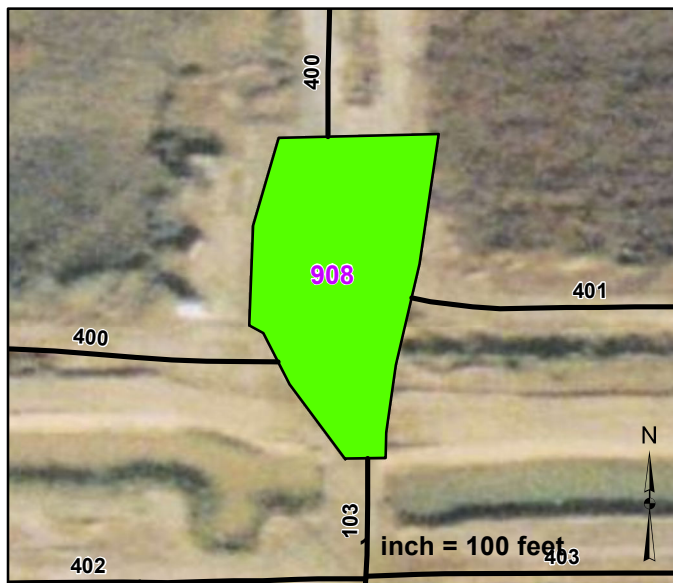
Asset Number	Area	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
-	3504	Fair	Gravel	\$1,100	05-03-2004	\$20,400



Parking		Features				Condition:	
	Gate		Boat Ramp		Visitor Center		Excellent
	Admin Bldg		Guardrail		Other		Good
	Begin Section		Fee Station		Problem Area		Fair
	Other FWS roads				Culvert		Poor
					Low_Water_Crossing		Failed
					Water_Control_Structure		

**Route Number:908**  
**Observation Tower Parking**  
 From Vendel Road (Route 103)

Asset Number	Area	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
-	9989	Good	Gravel	\$1,800	12-07-2011	\$58,300



Parking		Features				Condition:	
	Gate		Boat Ramp		Visitor Center		Excellent
	Admin Bldg		Guardrail		Other		Good
	Begin Section		Fee Station		Problem Area		Fair
	Other FWS roads		Culvert		Low_Water_Crossing		Poor
			Water_Control_Structure				Failed

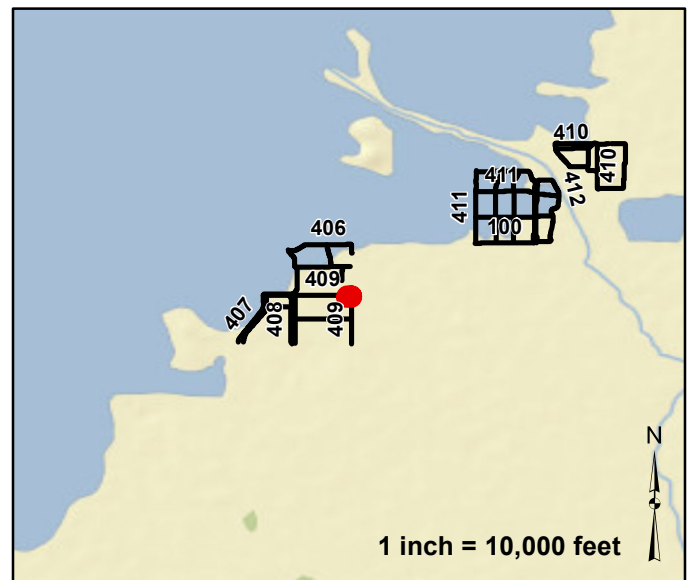
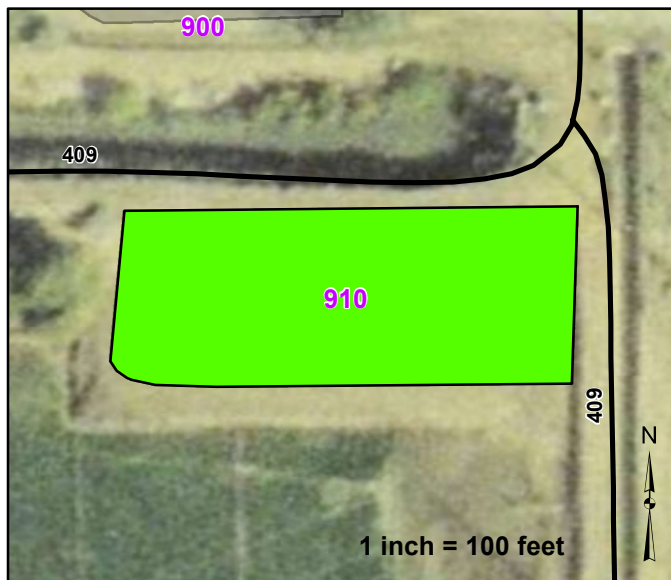


# Route Number:910

## HQ/ VC RV Overflow Parking

From Dike Road surrounds 419 and 420 (Route 409)

Asset Number	Area	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
-	18308	Good	Gravel	\$3,200	12-08-2011	\$106,800



Parking		Features		Condition:	
	Gate		Boat Ramp		Excellent
	Admin Bldg		Guardrail		Good
	Begin Section		Fee Station		Fair
	Other FWS roads		Visitor Center		Poor
			Other		Failed
			Problem Area		
			Culvert		
			Low_Water_Crossing		
			Water_Control_Structure		

Sonny Bono Salton Sea National Wildlife Refuge Bridge Inventory					
Rte #	Milepost	NBIS #	Sufficiency Rating	Functionally Obsolete	Structurally Deficient
103	1.14	NA	NA	NA	NA



## ROUTE: 100

## Features Photographs



Photo: SASE\_C4\_0302 Route: 100-001-0.0  
Begin Section

## ROUTE: 102

## Features Photographs



Photo: SASE\_C4\_0307 Route: 102-001-0.0  
Begin Section



Photo: SASE\_C4\_0311 Route: 102-001-0.36  
Plastic WCS Flashboard Riser 40ft long 18in dia. 2ft deep  
Asset# NA



Photo: SASE\_C4\_0312 Route: 102-001-0.36  
Plastic WCS Flashboard Riser 40ft long 18in dia. 2ft deep  
Asset# NA



## ROUTE: 103

## Features Photographs



Photo: SASE\_C4\_0035 Route: 103-001-0.0  
Begin Section



Photo: SASE\_C4\_0036 Route: 103-001-1.14  
Wood Bridge NBIS:NA  
Asset# NA



## ROUTE: 400

## Features Photographs



Photo: SASE\_C4\_0039 Route: 400-001-0.0  
Begin Section



Photo: SASE\_C4\_0040 Route: 400-002-0.98  
Begin Section



Photo: SASE\_C4\_0041 Route: 400-002-0.99  
Plastic WCS Flashboard Riser 25ft long 12in dia. 3ft deep  
Asset# 10000670



Photo: SASE\_C4\_0042 Route: 400-002-0.99  
Plastic WCS Flashboard Riser 25ft long 12in dia. 3ft deep  
Asset# 10000670



Photo: SASE\_C4\_0043 Route: 400-002-1.57  
Metal WCS Flashboard Riser 20ft long 18in dia. 3ft deep  
Asset# 10000670



Photo: SASE\_C4\_0044 Route: 400-002-1.57  
Metal WCS Flashboard Riser 20ft long 18in dia. 3ft deep  
Asset# 10000670 8-004



## ROUTE: 400

## Features Photographs



Photo: SASE\_C4\_0045 Route: 400-002-1.62  
Plastic WCS Flashboard Riser 20ft long 18in dia. 3ft deep  
Asset# 10000670



Photo: SASE\_C4\_0046 Route: 400-002-1.62  
Plastic WCS Flashboard Riser 20ft long 18in dia. 3ft deep  
Asset# 10000670



Photo: SASE\_C4\_0047 Route: 400-002-1.69  
Plastic WCS Flashboard Riser 20ft long 18in dia. 2ft deep  
Asset# 10000670



Photo: SASE\_C4\_0048 Route: 400-002-1.69  
Plastic WCS Flashboard Riser 20ft long 18in dia. 2ft deep  
Asset# 10000670



Photo: SASE\_C4\_0049 Route: 400-002-1.81  
Plastic WCS Flashboard Riser 20ft long 18in dia. 2ft deep  
Asset# 10000670



Photo: SASE\_C4\_0050 Route: 400-002-1.81  
Plastic WCS Flashboard Riser 20ft long 18in dia. 2ft deep  
Asset# 10000670  
8-005



## ROUTE: 401

## Features Photographs



Photo: SASE\_C4\_0051 Route: 401-001-0.0  
Begin Section



Photo: SASE\_C4\_0052 Route: 401-001-0.63  
Plastic WCS Flashboard Riser 30ft long 18in dia. 1ft deep  
Asset# 10000671



Photo: SASE\_C4\_0053 Route: 401-001-0.63  
Plastic WCS Flashboard Riser 30ft long 18in dia. 1ft deep  
Asset# 10000671



Photo: SASE\_C4\_0054 Route: 401-001-0.73  
Plastic WCS Flashboard Riser 30ft long 12in dia. 1ft deep  
Asset# 10000671



Photo: SASE\_C4\_0055 Route: 401-001-0.73  
Plastic WCS Flashboard Riser 30ft long 12in dia. 1ft deep  
Asset# 10000671



Photo: SASE\_C4\_0057 Route: 401-002-0.95  
Begin Section



## ROUTE: 402

## Features Photographs



Photo: SASE\_C4\_0058 Route: 402-001-0.0  
Begin Section



Photo: SASE\_C4\_0059 Route: 402-001-0.5  
Plastic WCS Flashboard Riser 35ft long 18in dia. 2ft deep  
Asset# 10000660



Photo: SASE\_C4\_0060 Route: 402-001-0.5  
Plastic WCS Flashboard Riser 35ft long 18in dia. 2ft deep  
Asset# 10000660



Photo: SASE\_C4\_0061 Route: 402-002-0.95  
Begin Section



Photo: SASE\_C4\_0062 Route: 402-002-1.06  
Concrete Culvert 15ft long 36in dia. 1ft deep  
Asset# 10000660



Photo: SASE\_C4\_0063 Route: 402-002-1.06  
Concrete Culvert 15ft long 36in dia. 1ft deep  
Asset# 10000660



## ROUTE: 402

## Features Photographs



Photo: SASE\_C4\_0064 Route: 402-002-1.51  
Concrete WCS Flashboard Riser 40ft long 12in dia. 1ft deep  
Asset# 10000660



Photo: SASE\_C4\_0065 Route: 402-002-1.51  
Concrete WCS Flashboard Riser 40ft long 12in dia. 1ft deep  
Asset# 10000660



Photo: SASE\_C4\_0066 Route: 402-002-1.62  
Plastic WCS Flashboard Riser 40ft long 18in dia. 2ft deep  
Asset# 10000660



Photo: SASE\_C4\_0067 Route: 402-002-1.62  
Plastic WCS Flashboard Riser 40ft long 18in dia. 2ft deep  
Asset# 10000660



Photo: SASE\_C4\_0068 Route: 402-002-1.72  
Plastic WCS Flashboard Riser 40ft long 18in dia. 1ft deep  
Asset# 10000660



Photo: SASE\_C4\_0069 Route: 402-002-1.72  
Plastic WCS Flashboard Riser 40ft long 18in dia. 1ft deep  
Asset# 10000660  
8-008



## ROUTE: 402

## Features Photographs



Photo: SASE\_C4\_0070 Route: 402-002-1.83  
Plastic WCS Flashboard Riser 40ft long 18in dia. 1ft deep  
Asset# 10000660



Photo: SASE\_C4\_0071 Route: 402-002-1.83  
Plastic WCS Flashboard Riser 40ft long 18in dia. 1ft deep  
Asset# 10000660



## ROUTE: 403

## Features Photographs



Photo: SASE\_C4\_0072 Route: 403-001-0.0  
Begin Section



Photo: SASE\_C4\_0073 Route: 403-001-0.0  
Plastic WCS Flashboard Riser 40ft long 12in dia. 2ft deep  
Asset# 10000672



Photo: SASE\_C4\_0074 Route: 403-001-0.0  
Plastic WCS Flashboard Riser 40ft long 12in dia. 2ft deep  
Asset# 10000672



Photo: SASE\_C4\_0076 Route: 403-001-0.99  
Metal Culvert 50ft long 48in dia. 1ft deep  
Asset# 10000672



Photo: SASE\_C4\_0077 Route: 403-001-0.99  
Metal Culvert 50ft long 48in dia. 1ft deep  
Asset# 10000672



Photo: SASE\_C4\_0078 Route: 403-002-0.99  
Begin Section



## ROUTE: 404

## Features Photographs



Photo: SASE\_C4\_0079 Route: 404-001-0.0  
Begin Section



Photo: SASE\_C4\_0080 Route: 404-001-0.37  
Concrete Culvert 20ft long 36in dia. 1ft deep  
Asset# 10000644



Photo: SASE\_C4\_0081 Route: 404-001-0.37  
Concrete Culvert 20ft long 36in dia. 1ft deep  
Asset# 10000644



Photo: SASE\_C4\_0082 Route: 404-001-0.4  
Plastic WCS Flashboard Riser 60ft long 12in dia. 20ft deep  
Unable to locate inlet Asset# 10000644



Photo: SASE\_C4\_0084 Route: 404-001-0.4  
Plastic WCS Flashboard Riser 60ft long 12in dia. 20ft deep  
Unable to locate inlet  
Asset# 10000644



Photo: SASE\_C4\_0085 Route: 404-001-0.59  
Concrete Culvert 25ft long 36in dia. 1ft deep  
Asset# 10000644



## ROUTE: 404

## Features Photographs



Photo: SASE\_C4\_0086 Route: 404-001-0.59  
Concrete Culvert 25ft long 36in dia. 1ft deep  
Asset# 10000644



Photo: SASE\_C4\_0089 Route: 404-002-0.38  
Begin Section



Photo: SASE\_C4\_0087 Route: 404-002-0.87  
Plastic Culvert 30ft long 12in dia. 2ft deep  
Asset# 10000644



Photo: SASE\_C4\_0088 Route: 404-002-0.87  
Plastic Culvert 30ft long 12in dia. 2ft deep  
Asset# 10000644



## ROUTE: 405

## Features Photographs



Photo: SASE\_C4\_0090 Route: 405-001-0.0  
Begin Section



Photo: SASE\_C4\_0091 Route: 405-001-0.5  
Metal Open Rail Gate  
Asset# 10000665



Photo: SASE\_C4\_0092 Route: 405-001-0.64  
Concrete WCS Flap Gate/Full-Round Riser  
30ft long 36in dia. 2ft deep Asset# 10000665



Photo: SASE\_C4\_0093 Route: 405-001-0.64  
Concrete WCS Flap Gate/Full-Round Riser  
30ft long 36in dia. 2ft deep Asset# 10000665



Photo: SASE\_C4\_0094 Route: 405-001-0.78  
Plastic WCS Flashboard Riser 60ft long 12in dia. 2ft deep  
Asset# 10000665



Photo: SASE\_C4\_0095 Route: 405-001-0.78  
Plastic WCS Flashboard Riser 60ft long 12in dia. 2ft deep  
Asset# 10000665 8-013



## ROUTE: 405

## Features Photographs



Photo: SASE\_C4\_0097 Route: 405-002-1.03  
Begin Section



Photo: SASE\_C4\_0096 Route: 405-002-1.03  
Metal Open Rail Gate  
Asset# 10000665



Photo: SASE\_C4\_0098 Route: 405-002-1.32  
Plastic WCS Flashboard Riser 25ft long 12in dia. 2ft deep  
Asset# 10000665



Photo: SASE\_C4\_0099 Route: 405-002-1.32  
Plastic WCS Flashboard Riser 25ft long 12in dia. 2ft deep  
Asset# 10000665



Photo: SASE\_C4\_0100 Route: 405-002-1.52  
Metal Open Rail Gate  
Asset# 10000665



Photo: SASE\_C4\_0101 Route: 405-002-1.52  
Plastic WCS Flashboard Riser 30ft long 12in dia. 3ft deep  
Asset# 10000665  
8-014



## ROUTE: 405

## Features Photographs



Photo: SASE\_C4\_0102 Route: 405-002-1.52  
Plastic WCS Flashboard Riser 30ft long 12in dia. 3ft deep  
Asset# 10000665



Photo: SASE\_C4\_0105 Route: 405-003-1.52  
Begin Section



Photo: SASE\_C4\_0103 Route: 405-003-1.53  
Plastic WCS Flashboard Riser 20ft long 12in dia. 2ft deep  
Asset# 10000665



Photo: SASE\_C4\_0104 Route: 405-003-1.53  
Plastic WCS Flashboard Riser 20ft long 12in dia. 2ft deep  
Asset# 10000665



Photo: SASE\_C4\_0106 Route: 405-003-1.72  
Plastic WCS Flashboard Riser 35ft long 12in dia. 2ft deep  
Asset# 10000665



Photo: SASE\_C4\_0107 Route: 405-003-1.72  
Plastic WCS Flashboard Riser 35ft long 12in dia. 2ft deep  
Asset# 10000665  
8-015



## ROUTE: 405

## Features Photographs



Photo: SASE\_C4\_0108 Route: 405-004-0.27  
Begin Section



Photo: SASE\_C4\_0109 Route: 405-004-0.28  
Concrete Culvert 25ft long 36in dia. 1ft deep  
Asset# 10000665



Photo: SASE\_C4\_0110 Route: 405-004-0.28  
Concrete Culvert 25ft long 36in dia. 1ft deep  
Asset# 10000665



Photo: SASE\_C4\_0111 Route: 405-005-0.64  
Begin Section



Photo: SASE\_C4\_0112 Route: 405-005-0.88  
Concrete WCS Flap Gate/Full-Round Riser  
20ft long 24in dia. 1ft deep Asset# 10000665



Photo: SASE\_C4\_0113 Route: 405-005-0.88  
Concrete WCS Flap Gate/Full-Round Riser  
20ft long 24in dia. 1ft deep Asset# 10000665



## ROUTE: 406

## Features Photographs



Photo: SASE\_C4\_0194 Route: 406-001-0.0  
Begin Section



Photo: SASE\_C4\_0195 Route: 406-002-0.14  
Begin Section



Photo: SASE\_C4\_0196 Route: 406-003-0.27  
Begin Section



Photo: SASE\_C4\_0197 Route: 406-003-0.47  
Metal WCS Flashboard Riser  
40ft long 24in dia. 5ft deep New Asset# 10000653



Photo: SASE\_C4\_0198 Route: 406-003-0.47  
Metal WCS Flashboard Riser  
40ft long 24in dia. 5ft deep  
New Asset# 10000653



Photo: SASE\_C4\_0200 Route: 406-004-0.14  
Begin Section



## ROUTE: 406

## Features Photographs



Photo: SASE\_C4\_0203 Route: 406-005-0.0  
Begin Section



Photo: SASE\_C4\_0202 Route: 406-005-0.0  
Metal Open Rail Gate  
Asset# 10000653



## ROUTE: 407

## Features Photographs



Photo: SASE\_C4\_0204 Route: 407-001-0.0  
Begin Section



Photo: SASE\_C4\_0205 Route: 407-001-0.46  
Metal Open Rail Gate  
Asset# 10000641



Photo: SASE\_C4\_0209 Route: 407-002-0.47  
Begin Section



Photo: SASE\_C4\_0210 Route: 407-002-1.25  
Metal Open Rail Gate  
Asset# 10000641



## ROUTE: 408

## Features Photographs



Photo: SASE\_C4\_0211 Route: 408-001-0.0  
Begin Section



Photo: SASE\_C4\_0212 Route: 408-001-0.13  
Plastic WCS Flashboard Riser 20ft long 12in dia. 6ft deep  
Asset# 10000695



Photo: SASE\_C4\_0213 Route: 408-001-0.13  
Plastic WCS Flashboard Riser 20ft long 12in dia. 6ft deep  
Asset# 10000695



Photo: SASE\_C4\_0214 Route: 408-001-0.25  
Metal WCS Flashboard Riser 20ft long 12in dia. 1ft deep  
Asset# 10000695



Photo: SASE\_C4\_0215 Route: 408-001-0.25  
Metal WCS Flashboard Riser 20ft long 12in dia. 1ft deep  
Asset# 10000695



Photo: SASE\_C4\_0216 Route: 408-001-0.41  
Metal Cable Gate  
Asset# 10000695



## ROUTE: 408

## Features Photographs



Photo: SASE\_C4\_0219 Route: 408-002-0.13  
Begin Section



Photo: SASE\_C4\_0220 Route: 408-002-0.27  
Plastic WCS Flashboard Riser 25ft long 12in dia. 1ft deep  
Asset# 10000695



Photo: SASE\_C4\_0221 Route: 408-002-0.27  
Plastic WCS Flashboard Riser 25ft long 12in dia. 1ft deep  
Asset# 10000695



Photo: SASE\_C4\_0222 Route: 408-003-0.02  
Begin Section



Photo: SASE\_C4\_0223 Route: 408-003-0.68  
Metal Cable Gate  
Asset# 10000695



## ROUTE: 409

## Features Photographs



Photo: SASE\_C4\_0224 Route: 409-001-0.0  
Begin Section



Photo: SASE\_C4\_0225 Route: 409-001-0.0  
Metal Open Rail Gate  
Asset# 10000658



Photo: SASE\_C4\_0258 Route: 409-002-0.94  
Begin Section



Photo: SASE\_C4\_0259 Route: 409-003-1.18  
Begin Section



## ROUTE: 410

## Features Photographs



Photo: SASE\_C4\_0322 Route: 410-001-0.0  
Begin Section



Photo: SASE\_C4\_0323 Route: 410-001-0.13  
Plastic Culvert 25ft long 48in dia. 1ft deep  
Asset# 10000656



Photo: SASE\_C4\_0324 Route: 410-001-0.13  
Plastic Culvert 25ft long 48in dia. 1ft deep  
Asset# 10000656



Photo: SASE\_C4\_0325 Route: 410-002-0.95  
Begin Section



Photo: SASE\_C4\_0326 Route: 410-002-1.18  
Plastic WCS Flashboard Riser 20ft long 18in dia. 1ft deep  
Asset# 10000656



Photo: SASE\_C4\_0327 Route: 410-002-1.18  
Plastic WCS Flashboard Riser 20ft long 18in dia. 1ft deep  
Asset# 10000656  
8-023



## ROUTE: 410

## Features Photographs



Photo: SASE\_C4\_0328 Route: 410-003-1.19  
Begin Section



Photo: SASE\_C4\_0329 Route: 410-003-1.3  
Plastic WCS Flashboard Riser 20ft long 18in dia. 2ft deep  
Asset# 10000656



Photo: SASE\_C4\_0330 Route: 410-003-1.3  
Plastic WCS Flashboard Riser 20ft long 18in dia. 2ft deep  
Asset# 10000656



Photo: SASE\_C4\_0331 Route: 410-003-1.51  
Plastic WCS Flashboard Riser 25ft long 24in dia. 2ft deep  
Asset# 10000656



Photo: SASE\_C4\_0332 Route: 410-003-1.51  
Plastic WCS Flashboard Riser 25ft long 24in dia. 2ft deep  
Asset# 10000656



Photo: SASE\_C4\_0334 Route: 410-003-1.58  
Plastic WCS Flashboard Riser 20ft long 18in dia. 2ft deep  
Asset# 10000656  
8-024



## ROUTE: 410

## Features Photographs



Photo: SASE\_C4\_0335 Route: 410-003-1.58  
Plastic WCS Flashboard Riser 20ft long 18in dia. 2ft deep  
Asset# 10000656



Photo: SASE\_C4\_0336 Route: 410-004-1.47  
Begin Section



Photo: SASE\_C4\_0337 Route: 410-004-2.09  
Plastic WCS Flashboard Riser 25ft long 18in dia. 3ft deep  
Asset# 10000656



Photo: SASE\_C4\_0338 Route: 410-004-2.09  
Plastic WCS Flashboard Riser 25ft long 18in dia. 3ft deep  
Asset# 10000656



Photo: SASE\_C4\_0339 Route: 410-005-1.82  
Begin Section



Photo: SASE\_C4\_0340 Route: 410-005-2.23  
Plastic WCS Flashboard Riser 25ft long 18in dia. 3ft deep  
Asset# 10000656  
8-025



## ROUTE: 410

## Features Photographs



Photo: SASE\_C4\_0341 Route: 410-005-2.23  
Plastic WCS Flashboard Riser 25ft long 18in dia. 3ft deep  
Asset# 10000656



## ROUTE: 411

## Features Photographs



Photo: SASE\_C4\_0264 Route: 411-001-0.0  
Begin Section



Photo: SASE\_C4\_0265 Route: 411-001-0.7  
Metal Open Rail Gate  
Asset# 10000655



Photo: SASE\_C4\_0283 Route: 411-002-0.2  
Begin Section



Photo: SASE\_C4\_0286 Route: 411-002-0.36  
Plastic WCS Flashboard Riser 50ft long 18in dia. 4ft deep  
Asset# 10000655



Photo: SASE\_C4\_0288 Route: 411-002-0.36  
Plastic WCS Flashboard Riser 50ft long 18in dia. 4ft deep  
Asset# 10000655



Photo: SASE\_C4\_0287 Route: 411-002-0.37  
Plastic WCS Flashboard Riser 60ft long 18in dia. 4ft deep  
Asset# 10000655  
8-027



## ROUTE: 411

## Features Photographs



Photo: SASE\_C4\_0289 Route: 411-002-0.37  
Plastic WCS Flashboard Riser 60ft long 18in dia. 4ft deep  
Asset# 10000655



Photo: SASE\_C4\_0290 Route: 411-002-0.45  
Plastic WCS Flashboard Riser 25ft long 18in dia. 3ft deep  
Asset# 10000655



Photo: SASE\_C4\_0291 Route: 411-002-0.45  
Plastic WCS Flashboard Riser 25ft long 18in dia. 3ft deep  
Asset# 10000655



Photo: SASE\_C4\_0292 Route: 411-002-0.58  
Plastic WCS Flashboard Riser 40ft long 18in dia. 3ft deep  
Asset# 10000655



Photo: SASE\_C4\_0293 Route: 411-002-0.58  
Plastic WCS Flashboard Riser 40ft long 18in dia. 3ft deep  
Asset# 10000655



Photo: SASE\_C4\_0266 Route: 411-003-0.46  
Begin Section



## ROUTE: 411

## Features Photographs



Photo: SASE\_C4\_0267 Route: 411-003-0.49  
Concrete WCS Flashboard Riser 25ft long 12in dia. 2ft deep  
Asset# 10000655



Photo: SASE\_C4\_0268 Route: 411-003-0.49  
Concrete WCS Flashboard Riser 25ft long 12in dia. 2ft deep  
Asset# 10000655

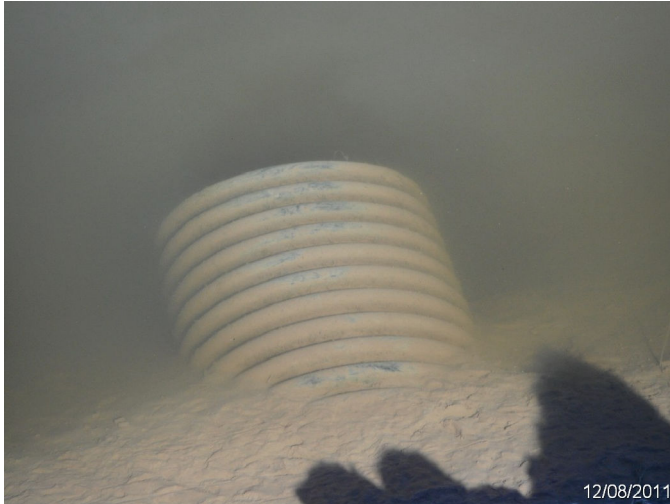


Photo: SASE\_C4\_0269 Route: 411-003-0.53  
Plastic WCS Flashboard Riser 25ft long 18in dia. 3ft deep  
Asset# 10000655



Photo: SASE\_C4\_0270 Route: 411-003-0.53  
Plastic WCS Flashboard Riser 25ft long 18in dia. 3ft deep  
Asset# 10000655



Photo: SASE\_C4\_0272 Route: 411-003-0.61  
Plastic WCS Flashboard Riser 55ft long 18in dia. 3ft deep  
Asset# 10000655



Photo: SASE\_C4\_0273 Route: 411-003-0.61  
Plastic WCS Flashboard Riser 55ft long 18in dia. 3ft deep  
Asset# 10000655  
8-029



## ROUTE: 411

## Features Photographs



Photo: SASE\_C4\_0274 Route: 411-003-0.62  
Plastic WCS Flashboard Riser 45ft long 18in dia. 3ft deep  
Asset# 10000655



Photo: SASE\_C4\_0275 Route: 411-003-0.62  
Plastic WCS Flashboard Riser 45ft long 18in dia. 3ft deep  
Asset# 10000655



Photo: SASE\_C4\_0276 Route: 411-003-0.7  
Plastic WCS Flashboard Riser 25ft long 18in dia. 3ft deep  
Asset# 10000655

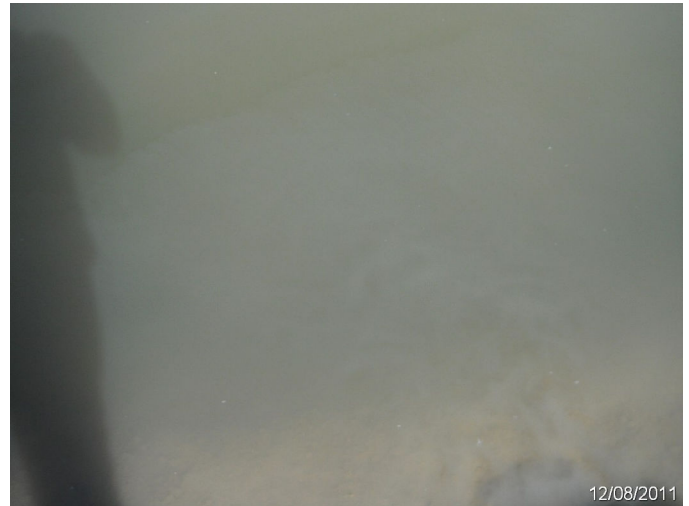


Photo: SASE\_C4\_0277 Route: 411-003-0.7  
Plastic WCS Flashboard Riser 25ft long 18in dia. 3ft deep  
Asset# 10000655



Photo: SASE\_C4\_0278 Route: 411-003-0.77  
Plastic WCS Flashboard Riser 25ft long 18in dia. 5ft deep  
Asset# 10000655



Photo: SASE\_C4\_0279 Route: 411-003-0.77  
Plastic WCS Flashboard Riser 25ft long 18in dia. 5ft deep  
Asset# 10000655  
8-030



## ROUTE: 411

## Features Photographs



Photo: SASE\_C4\_0280 Route: 411-003-0.84  
Plastic WCS Flashboard Riser 30ft long 18in dia. 3ft deep  
Asset# 10000655



Photo: SASE\_C4\_0282 Route: 411-003-0.84  
Plastic WCS Flashboard Riser 30ft long 18in dia. 3ft deep  
Asset# 10000655



Photo: SASE\_C4\_0295 Route: 411-004-0.23  
Begin Section



Photo: SASE\_C4\_0296 Route: 411-004-0.68  
Plastic WCS Flashboard Riser 25ft long 18in dia. 5ft deep  
Asset# 10000655



Photo: SASE\_C4\_0297 Route: 411-004-0.68  
Plastic WCS Flashboard Riser 25ft long 18in dia. 5ft deep  
Asset# 10000655



Photo: SASE\_C4\_0294 Route: 411-005-0.37  
Begin Section



## ROUTE: 411

## Features Photographs



Photo: SASE\_C4\_0298 Route: 411-006-0.01  
Begin Section



Photo: SASE\_C4\_0300 Route: 411-007-0.56  
Plastic Culvert 30ft long 18in dia. 4ft deep  
Asset# 10000655



Photo: SASE\_C4\_0301 Route: 411-007-0.56  
Plastic Culvert 30ft long 18in dia. 4ft deep  
Asset# 10000655



Photo: SASE\_C4\_0299 Route: 411-007-0.56  
Begin Section



## ROUTE: 412

## Features Photographs



Photo: SASE\_C4\_0313 Route: 412-001-0.0  
Begin Section



Photo: SASE\_C4\_0314 Route: 412-001-0.48  
Plastic WCS Flashboard Riser 25ft long 18in dia. 5ft deep  
Asset# 10000694



Photo: SASE\_C4\_0315 Route: 412-001-0.48  
Plastic WCS Flashboard Riser 25ft long 18in dia. 5ft deep  
Asset# 10000694



Photo: SASE\_C4\_0316 Route: 412-002-0.96  
Begin Section



Photo: SASE\_C4\_0317 Route: 412-002-1.15  
Plastic WCS Flashboard Riser 50ft long 18in dia. 3ft deep  
Asset# 10000694



Photo: SASE\_C4\_0318 Route: 412-002-1.15  
Plastic WCS Flashboard Riser 50ft long 18in dia. 3ft deep  
Asset# 10000694 8-033



## ROUTE: 412

## Features Photographs



Photo: SASE\_C4\_0319 Route: 412-003-0.41  
Begin Section



## ROUTE: 800

## Features Photographs



Photo: SASE\_C4\_0189 Route: 800  
Metal Open Rail Gate  
Asset# 10000666



### Accident Summary

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



## APPENDIX

<b>FWS ROAD FUNCTIONAL CLASSIFICATION</b>	
<b>Class I</b>	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.
<b>Class II</b>	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.
<b>Class III</b>	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
<b>Class IV</b>	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.
<b>Class V</b>	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 five different surface types: Asphalt, Concrete, Gravel, Native Improved and Native Primitive. 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 a given Remaining Service Life (RSL) value (in years) based on the rating for that distress. The distress rating resulting in the lowest RSL value is considered to be the governing distress. That value is 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 Improved Rating System**

Data is collected on the following distresses and conditions:

- **Cross Section (Gravel, Native Improved only)** - Roadway built so that the center is higher than the shoulder, to prevent water from pooling on roadway.
- **Roadside Drainage (Gravel, Native Improved only)** - 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

### Gravel and Native

**Excellent** - Newly constructed road that has been constructed properly with proper crown, drainage and gravel layer. Little or no distress. No maintenance recommended. RSL = 8-10 years.

**Good** - Crown, drainage provisions, and gravel layer are in good condition. Distress limited to traffic effects such as dust, loose aggregate, and low severity corrugations (wash boarding). RSL = 5-7 years.

**Fair** - Adequate drainage and crown through majority of roadway. Crown repair, ditch improvement may be necessary. Road has more severe corrugations and potholes. Preventative maintenance recommended. RSL = 3-4 years.

**Poor** - Travel at slow speeds is necessary. Additional gravel layer needed to carry traffic. Poor crown. Ditching is inadequate and rutting is extensive and severe. Rehabilitation recommended. RSL = 1-2 years.

**Failed** - Travel is difficult, and road may be closed at times. Rutting and Corrugations are very severe. Total Reconstruction of road is recommended. RSL = 0 years.

The following table shows the RSL values for gravel and native roads in terms of excellent, good, fair, poor, and failed condition.

SUBJECTIVE CONDITION RATING FOR REMAINING SERVICE LIFE (Gravel and Native Surfaces)					
	FAILED	POOR	FAIR	GOOD	EXCELLENT
RSL Years	0	1-2	3-4	5-7	8-10



## NATIVE PRIMITIVE/IMPROVED RATING SHEET

### Cross Section (Crown)\*

Severity	Condition		Description
	No Defects	0	Crown 4-6" with no restriction of water flow from centerline to ditch.
	Minor Defects	1	Inadequate or inconsistent crown. Drainage to ditch may be restricted.
	Moderate Defects	2	Flat crown, drainage to ditch restricted.
	Major Defects	3	Reverse crown, bowl-shaped road, drainage on roadway

### Rutting

Severity	Extent (Length)			
	No Defects	Low <10%	Med 10-30%	High >30%
	Low < 6"	1	2	3
	Med 6-12"	4	5	6
	High > 12"	7	8	9

### Roadside Drainage\*

Severity	Condition		Description
	No Defects	0	Wide, deep ditches (>4') with no restriction to water flow.
	Minor Defects	1	Adequate ditches (>2' deep), minor obstructions restrict water flow.
	Moderate Defects	2	Shallow, narrow and obstructed ditches. Minor erosion of road.
	Major Defects	3	No ditch, drainage on roadway with moderate to severe erosion.

### Potholes

Severity	Extent (Area)			
	No Defects	Low <10%	Med 10-30%	High >30%
	Low < 6"	1	2	3
	Med 6-12"	4	5	6
	High > 12"	7	8	9

### Dust

Severity	Condition		Description
	No Defects	0	No obstruction to sight distance.
	Minor Defects	1	Sight distance > 550'
	Moderate Defects	2	Sight distance 225'-550'
	Major Defects	3	Sight distance < 225'

### Corrugations

Severity	Extent (Length)			
	No Defects	Low <10%	Med 10-30%	High >30%
	Low < 3"	1	2	3
	Med 3-6"	4	5	6
	High > 6"	7	8	9

\* Crown and Drainage are not rated for roads that have no constructed crown or drainage. This applies to Native and Gravel roads.



## GRAVEL RATING SHEET

### Cross Section (Crown)

Severity	Condition		Description
	No Defects	0	Crown 4-6" with no restriction of water flow from centerline to ditch.
	Minor Defects	1	Inadequate or inconsistent crown. Drainage to ditch may be restricted.
	Moderate Defects	2	Flat crown, drainage to ditch restricted.
	Major Defects	3	Reverse crown, bowl-shaped road, drainage on roadway

### Rutting

Severity	Extent (Length)			
	No Defects	Low <10%	Med 10-30%	High >30%
	Low < 1"	1	2	3
	Med 1-3"	4	5	6
	High > 3"	7	8	9

### Roadside Drainage

Severity	Condition		Description
	No Defects	0	Wide, deep ditches (>4') with no restriction to water flow.
	Minor Defects	1	Adequate ditches (>2' deep), minor obstructions restrict water flow.
	Moderate Defects	2	Shallow, narrow and obstructed ditches. Minor erosion of road.
	Major Defects	3	No ditch, drainage on roadway with moderate to severe erosion.

### Potholes

Severity	Extent (Area)			
	No Defects	Low <10%	Med 10-30%	High >30%
	Low < 1"	1	2	3
	Med 1-3"	4	5	6
	High > 3"	7	8	9

### Dust

Severity	Condition		Description
	No Defects	0	No obstruction to sight distance.
	Minor Defects	1	Sight distance > 550'
	Moderate Defects	2	Sight distance 225'-550'
	Major Defects	3	Sight distance < 225'

### Corrugations

Severity	Extent (Length)			
	No Defects	Low <10%	Med 10-30%	High >30%
	Low < 2"	1	2	3
	Med 2-4"	4	5	6
	High > 4"	7	8	9

\* Crown and Drainage are not rated for roads that have no constructed crown or drainage. This applies to Native and Gravel roads.

### Loose Aggregate

Severity	Extent (Area)			
	No Defects	Low <10%	Med 10-30%	High >30%
	Low < 1"	1	2	3
	Med 1-3"	4	5	6
	High > 3"	7	8	9



# ASPHALT RATING SHEET

## Fatigue Cracking

Severity	Extent			
	No Defects	Low 1 crack WP	Med 2 cracks WP	High >30% length
	Low-Cracks < 1/4"	1	2	3
	Med-Cracks 1/4-3/4"	4	5	6
	High-Cracks > 3/4"	7	8	9

## Edge Cracking

Severity	Extent (Length)			
	No Defects	Low <10%	Med 10-30%	High >30%
	0-6" from curb	1	2	3
	6-18" from curb	4	5	6
	> 18" from curb	7	8	9

## Longitudinal Cracking

Severity	Extent			
	No Defects	Low 1 crack full length	Med 2 cracks full length	High >2 cracks full length
	Low-Cracks < 1/4"	1	2	3
	Med-Cracks 1/4-3/4"	4	5	6
	High-Cracks > 3/4"	7	8	9

## Block Cracking

Severity	Extent (Length)			
	No Defects	Low > 15x15' squares	Med 15-10' squares	High <10x10' squares
	Low-Cracks < 1/4"	1	2	3
	Med-Cracks 1/4-3/4"	4	5	6
	High-Cracks > 3/4"	7	8	9

## Transverse Cracking

Severity	Extent (ft between cracks)			
	No Defects	Low > 200'	Med 200-50'	High < 50'
	Low-Cracks < 1/4"	1	2	3
	Med-Cracks 1/4-3/4"	4	5	6
	High-Cracks > 3/4"	7	8	9

## Utility Cuts

Severity	Extent (Length)			
	No Defects	Low <10%	Med 10-30%	High >30%
	Low-Cracks < 1/4"	1	2	3
	Med-Cracks 1/4-3/4"	4	5	6
	High-Cracks > 3/4"	7	8	9

## Drainage/Roughness/Rutting

Severity	Condition		Description
	No Defects	0	Wide, deep ditches with no obstructions, smooth ride, no rutting, no potholes.
	Minor Defects	1	Drainage may be obstructed, < 1" rutting, minor roughness.
	Moderate Defects	2	Poor drainage, 1-2" rutting, noticeable roughness, potholes < 6" wide.
	Major Defects	3	No drainage; > 2" rutting; potholes 6-12" wide create roughness requiring reduced speeds.



# CONCRETE RATING SHEET

## Spalling of Joints

Extent (% joints)				
No Defects	Low <10%	Med 10-20%	High >20%	
Severity	Low Spalls < 3"	1	2	3
	Med Spalls 3-6"	4	5	6
	High Spalls > 6"	7	8	9

## Broken Slabs

Extent (% slabs)				
No Defects	Low <5%	Med 5-15%	High >15%	
Severity	Low-no more than 3 pieces, no spalling/faulting	1	2	3
	Med-broken into >3 pieces, spalling/faulting <1/4"	4	5	6
	High-4 or more pieces, spalling/faulting >1/4"	7	8	9

## Transverse Cracks

Extent (% slabs)				
No Defects	Low <10%	Med 10-20%	High >20%	
Severity	Low-Cracks < 1/8"; no spalling/faulting	1	2	3
	Med-Cracks 1/8-1/2"; spall <3", fault >1/4"	4	5	6
	High-Cracks > 1/2"; spall >3", fault >1/4"	7	8	9

## Joint Seal Damage

Extent (%joints)				
No Defects	Low <10%	Med 10-20%	High >20%	
Severity	Low <10% joint length	1	2	3
	Med 10-50% joint length	4	5	6
	High >50% joint length	7	8	9

## Faulting

Extent (Length)				
No Defects	Low <10%	Med 10-30%	High >30%	
Severity	Low < 1/2"	1	2	3
	Med 1/2-1"	4	5	6
	High > 1"	7	8	9

## Patch Deterioration

Extent (Area)				
No Defects	Low <10%	Med 10-30%	High >30%	
Severity	Low-no fault, no settle at perimeter	1	2	3
	Med-fault & settle <1/4" at perimeter	4	5	6
	High-fault & settle >1/4" at perimeter, cracked patch	7	8	9

## Corner Breaks

Extent (% of slabs)				
No Defects	Low <10%	Med 10-20%	High >20%	
Severity	Low-corner cracks, no spalling or faulting	1	2	3
	Med-crack slightly spalled & faulted <1/4"	4	5	6
	High-crack highly spalled & faulted >1/4"	7	8	9

## Longitudinal Cracks

Extent (% slabs)				
No Defects	Low <10%	Med 10-20%	High >20%	
Severity	Low-Cracks < 1/8"; no spalling/faulting	1	2	3
	Med-Cracks 1/8-1/2"; spall <3", fault >1/2"	4	5	6
	High-Cracks > 1/2"; spall >3", fault >1/2"	7	8	9

## Map Cracks

Extent (Area)				
No Defects	Low <10%	Med 10-20%	High >20%	
Severity	Low-small connected cracks, no spalling	1	2	3
	Med-connected cracks, no spalling	4	5	6
	High-large connected cracks with surface spalling	7	8	9



# Deficiency Ratings With Associated Remaining Service Life

## Asphalt Rating Sheet

Fatigue Cracking		Edge Cracking		Transverse Cracking		Utility Cuts	
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	20	0	20	0	20	0	20
1	10	1	12	1	14	1	14
2	8	2	10	2	12	2	12
3	6	3	8	3	10	3	10
4	8	4	10	4	12	4	12
5	6	5	8	5	10	5	10
6	4	6	6	6	8	6	8
7	6	7	8	7	10	7	10
8	2	8	6	8	6	8	6
9	0	9	4	9	2	9	2

Longitudinal Cracking		Block Cracking		Drainage/Roughness/Rutting	
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	20	0	20	0	20
1	14	1	12	1	16
2	12	2	10	2	10
3	10	3	8	3	4
4	12	4	10		
5	10	5	8		
6	8	6	6		
7	10	7	12		
8	8	8	6		
9	6	9	2		

## Concrete Rating Sheet

Spalling		Broken Slabs		Transverse Cracks	
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	20	0	20	0	20
1	15	1	15	1	18
2	12	2	12	2	15
3	10	3	10	3	12
4	12	4	12	4	15
5	10	5	10	5	10
6	8	6	8	6	6
7	10	7	10	7	10
8	6	8	6	8	4
9	0	9	0	9	0

Joint Seal Damage		Faulting		Patch Deterioration	
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	20	0	20	0	18
1	16	1	15	1	16
2	14	2	12	2	14
3	12	3	10	3	12
4	14	4	12	4	12
5	10	5	8	5	10
6	8	6	6	6	8
7	12	7	10	7	10
8	8	8	4	8	6
9	6	9	0	9	0

Corner Breaks		Longitudinal Cracks		Map Cracks	
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	18	0	20	0	20
1	16	1	18	1	18
2	14	2	15	2	15
3	12	3	12	3	12
4	12	4	15	4	12
5	10	5	10	5	10
6	8	6	6	6	6
7	10	7	10	7	10
8	6	8	4	8	4
9	0	9	0	9	0

SUBJECTIVE CONDITION RATING FOR REMAINING SERVICE LIFE IN YEARS (Asphalt & Concrete Roads)

RSL	FAILED 0	POOR 1 - 6	FAIR 7 - 12	GOOD 13 - 18	EXCELLENT 19 - 20
-----	-------------	---------------	----------------	-----------------	----------------------



# Deficiency Ratings With Associated Remaining Service Life

## Native Primitive Improved Rating Sheet

Cross Section		Rutting		Roadside Drainage	
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	10	0	10	0	10
1	7	1	9	1	8
2	5	2	7	2	4
3	0	3	5	3	0
		4	7		
		5	4		
		6	3		
		7	4		
		8	2		
		9	0		

Potholes		Dust		Corrugations	
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	10	0	10	0	10
1	9	1	8	1	9
2	7	2	6	2	7
3	5	3	2	3	7
4	7			4	6
5	4			5	5
6	3			6	5
7	4			7	4
8	2			8	3
9	0			9	0

## Gravel Rating Sheet

Cross Section		Rutting		Roadside Drainage	
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	10	0	10	0	10
1	7	1	9	1	8
2	5	2	7	2	4
3	0	3	5	3	0
		4	7		
		5	4		
		6	3		
		7	4		
		8	2		
		9	0		

Potholes		Dust		Corrugations	
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	10	0	10	0	10
1	9	1	8	1	9
2	7	2	6	2	7
3	5	3	2	3	7
4	7			4	6
5	4			5	5
6	3			6	5
7	4			7	4
8	2			8	3
9	0			9	0

Loose Aggregate	
Distress Rating	Remaining Service Life
0	10
1	9
2	8
3	7
4	8
5	7
6	6
7	5
8	3
9	0

SUBJECTIVE CONDITION RATING FOR REMAINING SERVICE LIFE IN YEARS (Gravel & Native Roads)

RSL	FAILED	POOR	FAIR	GOOD	EXCELLENT
	0	1 - 2	3 - 4	5 - 7	8 - 10