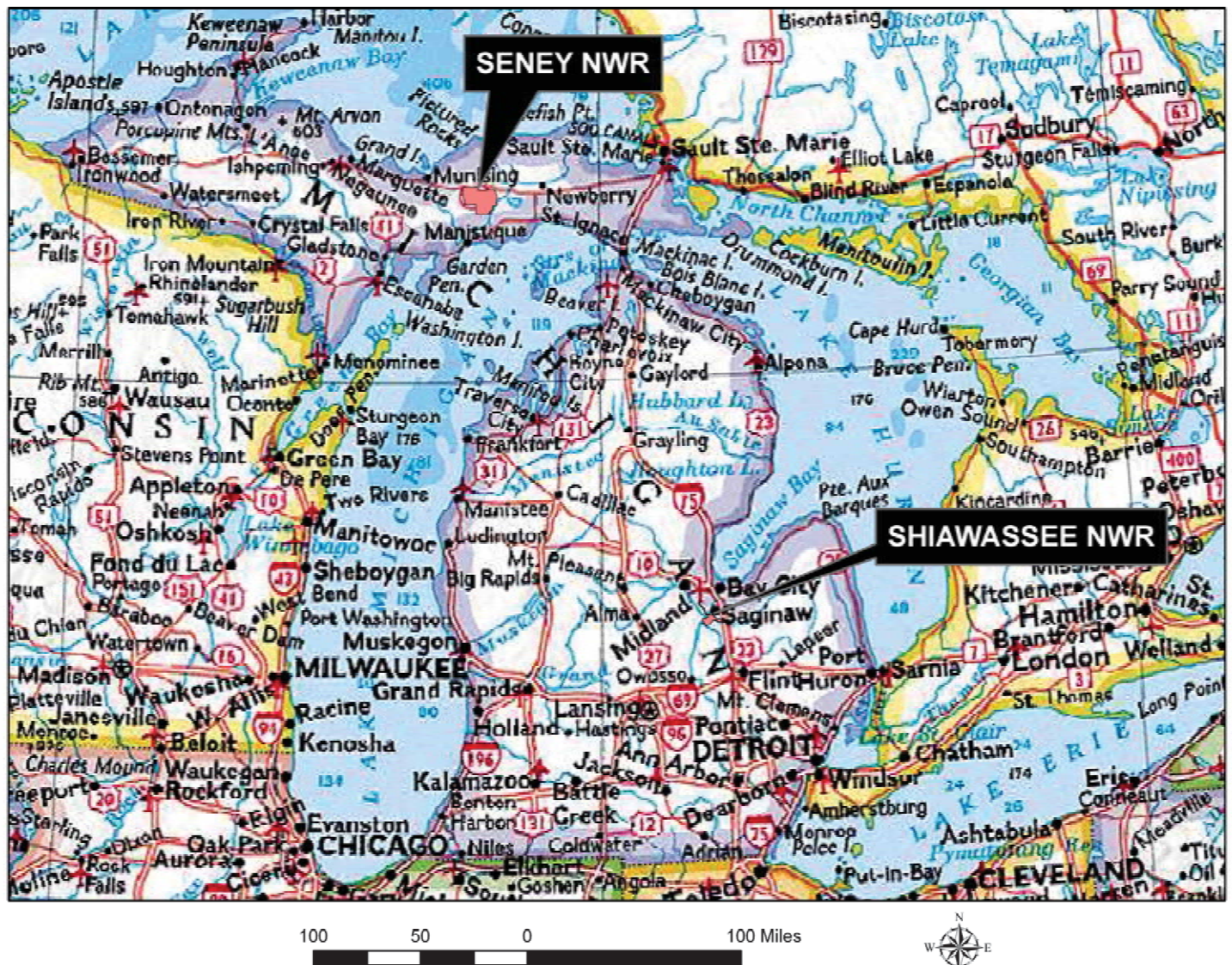


The Trail Inventory of U.S. Fish and Wildlife Service Stations In Michigan



Prepared By:
Federal Highway Administration
Central Federal Lands Highway Division
February, 2007



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FWS Stations in Michigan with Trails

Station Name	Trail Miles	Chapter
Seney NWR	8.91	2
Shiawassee NWR	13.61	3

Michigan NWR

Trail and Trail Feature Summaries

Trail Miles and Percentages by Surface Type and Condition

Trail Surface Type	Mileage by Trail Condition												Total Miles
	Excellent		Good		Fair		Poor		Very Poor		Not Rated*		
	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	
Native	6.21	28%	3.69	16%	1.32	6%		0%		0%		0%	11.22
Gravel	0.39	2%		0%		0%		0%		0%		0%	0.39
Asphalt		0%		0%		0%		0%		0%		0%	0.00
Concrete		0%		0%		0%		0%		0%		0%	0.00
Turnpike		0%		0%		0%		0%		0%		0%	0.00
Boardwalk	0.24	1%		0%		0%		0%		0%		0%	0.24
Puncheon		0%		0%		0%		0%		0%		0%	0.00
Woodchips	0.15	1%		0%		0%		0%		0%		0%	0.15
Mowed	4.59	20%		0%		0%		0%		0%		0%	4.59
Admin Road		0%		0%		0%		0%		0%	5.93	26%	5.93
Other		0%		0%		0%		0%		0%		0%	0.00
Totals	11.58	51%	3.69	16%	1.32	6%	0.00	0%	0.00	0%	5.93	26%	22.52

Trail Miles and Percentages by Trail Classification and Condition

Trail Classificatio n	Mileage by Trail Condition												Total Miles
	Excellent		Good		Fair		Poor		Very Poor		Not Rated*		
	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	
TC1		0%		0%		0%		0%		0%		0%	0.00
TC2	0.14	1%		0%		0%		0%		0%		0%	0.14
TC3	9.82	44%	3.69	16%	1.32	6%		0%		0%	5.89	26%	20.72
TC4	1.38	6%		0%		0%		0%		0%	0.04	0%	1.42
TC5	0.24	1%		0%		0%		0%		0%		0%	0.24
Totals	11.58	51%	3.69	16%	1.32	6%	0.00	0%	0.00	0%	5.93	26%	22.52

* Admin Roads are included in the inventory but are not rated for condition.

The Trail Inventory of Seney National Wildlife Refuge Seney, Michigan



Prepared By:
Federal Highway Administration
Central Federal Lands Highway Division
August, 2006



Seney NWR

Trail and Trail Feature Summaries

Trail Miles and Percentages by Surface Type and Condition

Trail Surface Type	Mileage by Trail Condition												Total Miles
	Excellent		Good		Fair		Poor		Very Poor		Not Rated*		
	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	
Native	0.72	8%		0%		0%		0%		0%		0%	0.72
Gravel		0%		0%		0%		0%		0%		0%	0.00
Asphalt		0%		0%		0%		0%		0%		0%	0.00
Concrete		0%		0%		0%		0%		0%		0%	0.00
Turnpike		0%		0%		0%		0%		0%		0%	0.00
Boardwalk	0.24	3%		0%		0%		0%		0%		0%	0.24
Puncheon		0%		0%		0%		0%		0%		0%	0.00
Woodchips		0%		0%		0%		0%		0%		0%	0.00
Mowed	4.59	52%		0%		0%		0%		0%		0%	4.59
Admin Road		0%		0%		0%		0%		0%	3.36	38%	3.36
Other		0%		0%		0%		0%		0%		0%	0.00
Totals	5.55	62%	0.00	0%	0.00	0%	0.00	0%	0.00	0%	3.36	38%	8.91

Trail Miles and Percentages by Trail Classification and Condition

Trail Classification	Mileage by Trail Condition												Total Miles
	Excellent		Good		Fair		Poor		Very Poor		Not Rated*		
	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	
TC1		0%		0%		0%		0%		0%		0%	0.00
TC2		0%		0%		0%		0%		0%		0%	0.00
TC3	4.23	47%		0%		0%		0%		0%	3.32	37%	7.55
TC4		0%		0%		0%		0%		0%	1.12	13%	1.12
TC5	0.24	3%		0%		0%		0%		0%		0%	0.24
Totals	4.47	50%	0.00	0%	0.00	0%	0.00	0%	0.00	0%	4.44	50%	8.91

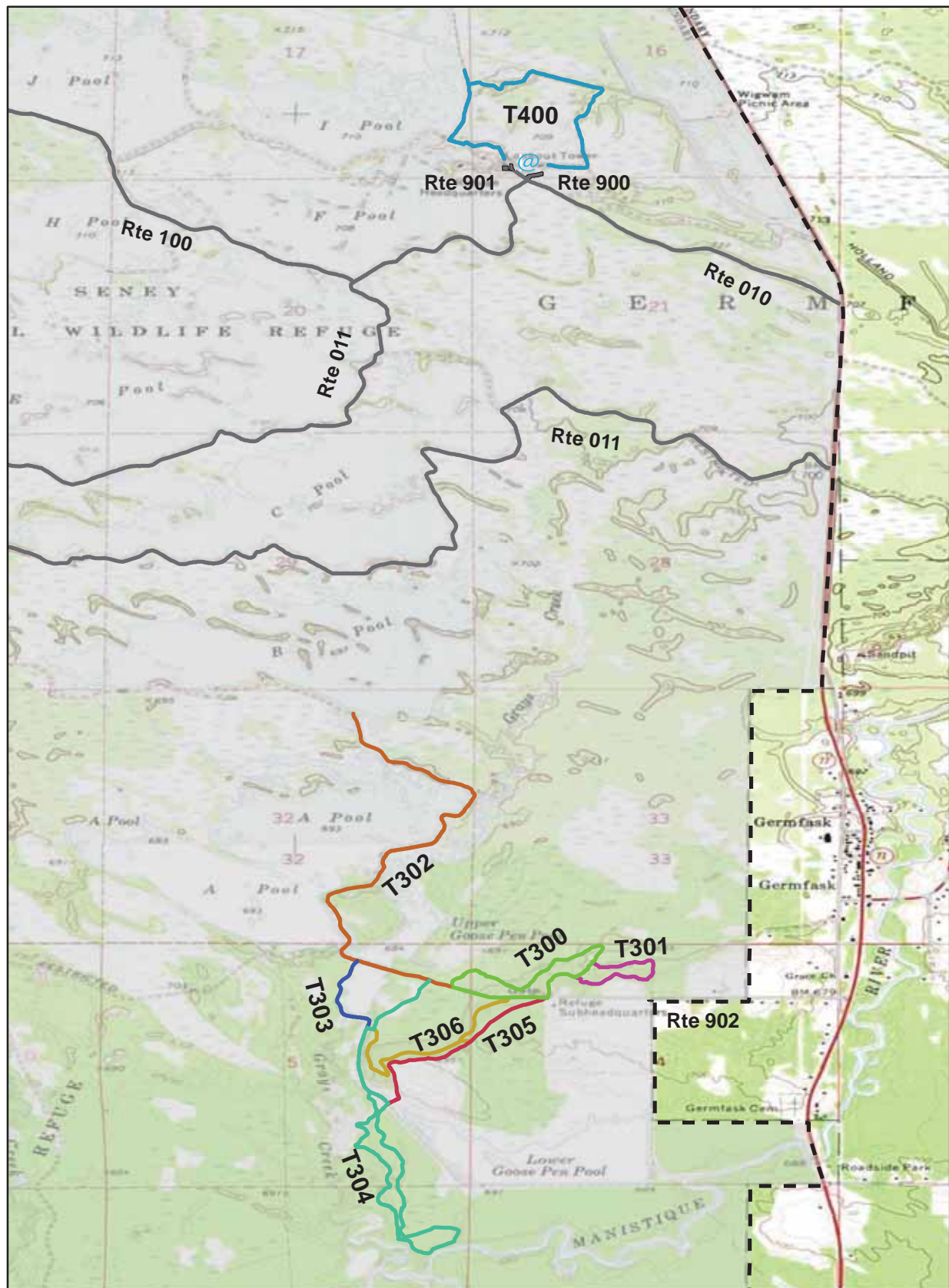
* Admin Roads are included in the inventory but are not rated for condition.

Trail Features

Trail Number	Feature Type	Quantity	Grouped Feature	Milepost	Photo
T300	Sign	3	No	0.00	1577
T300	Sign	1	No	0.00	1579
T300	Sign	1	No	0.14	1580
T300	Sign	1	No	0.86	1632
T300	Sign	1	No	0.86	1589
T302	Sign	2	No	0.31	1626
T303	Sign	1	No	0.00	1624
T303	Gate	1	No	0.01	N/A
T303	Sign	1	No	0.27	1634
T304	Sign	1	No	0.00	1633
T304	Sign	3	No	0.01	1629
T304	Sign	5	Yes	N/A	1615
T304	Sign	5	No	0.54	1615
T304	Bench	1	No	0.71	N/A
T305	Sign	1	No	0.00	1630
T305	Gate	1	No	0.01	N/A
T305	Sign	2	No	0.02	1623
T305	Bridge -sf	192	No	0.70	1616
T305	Sign	1	No	0.71	1589
T306	Sign	1	No	0.00	1631
T306	Sign	1	No	0.00	1589
T400	Sign	2	No	0.00	1549
T400	Sign	1	No	0.01	1550
T400	Bridge -sf	75	No	0.04	1551
T400	Sign	14	Yes	N/A	1552
T400	Bench	1	No	0.30	N/A
T400	Sign	2	No	0.39	1555, 1556
T400	Sign	1	No	0.70	1559
T400	Bench	1	No	0.82	N/A
T400	Bridge -sf	140	No	0.86	1562
T400	Bridge -sf	85	No	0.89	1563
T400	Bench	1	No	0.92	N/A
T400	Lookout/Ob Deck	1	No	0.96	N/A
T400	Sign	4	Yes	N/A	1571
T400	Sign	1	No	1.14	1573
T400	Bridge -sf	408	No	1.17	1575
T400	Bench	1	No	1.18	N/A
T400	Bridge -sf	100	No	1.19	1576

sf-square feet
lf-linear feet
cf-cubic feet

SENEY NATIONAL WILDLIFE REFUGE TRAIL LOCATION MAP



Station Boundary

HQ/VC

Miles
0 0.5 1

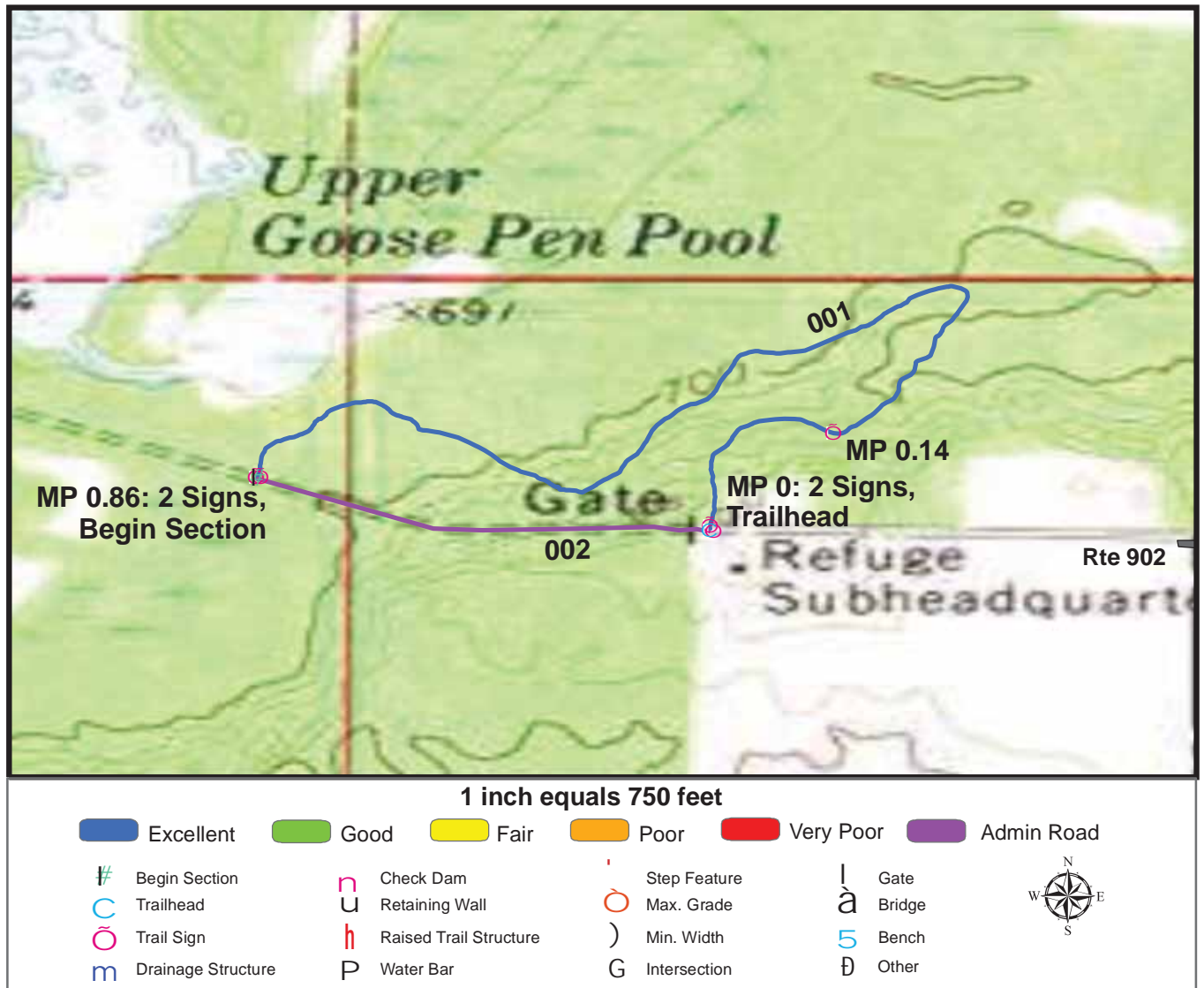
TRAILS ID

Station Name: Seney NWR

Org. Code: 31510

Trail #	Trail Name	Surface Type	SAMMS	Trail Mileage	Trail Description (Begin and End point of trail)
T300	Bear Hollow Loop Ski Trail	Mowed, Admin Road	10056120	1.13	From Trailhead to end of loop
T301	Cub Hollow Ski Trail	Native	10056120	0.5	From Bear Hollow Loop Trail (T300) to Bear Hollow Loop Ski Trail (T300)
T302	Otter Run Ski Trail	Admin Road	10056120	1.73	From Trailhead to end of trail
T303	Goose Pen Bend Trail	Admin Road	10056120	0.34	From Otter Run Ski Trail (T302) to Manistique River Run Trail (T304)
T304	Manistique River Run Trail	Mowed, Admin Road	10056120	2.35	From trailhead to end of loop
T305	Smith Farm Trail	Mowed, Admin Road	10056120	0.71	From Trailhead to Manistique River Run Trail (T304)
T306	Skunk Ridge Ski Trail	Mowed	10056120	0.79	From Trailhead to Manistique River Run Trail (T304)
T400	Pine Ridge Nature Trail	Mowed, Admin Road, Boardwalk, Native	10010432	1.36	From Visitor Center to Refuge Office Parking (Rte 901)

TRAIL CONDITION



Trail Name: Bear Hollow Loop Ski Trail

Refuge Name: Seney NWR

Trail Number: T300

Region: 3

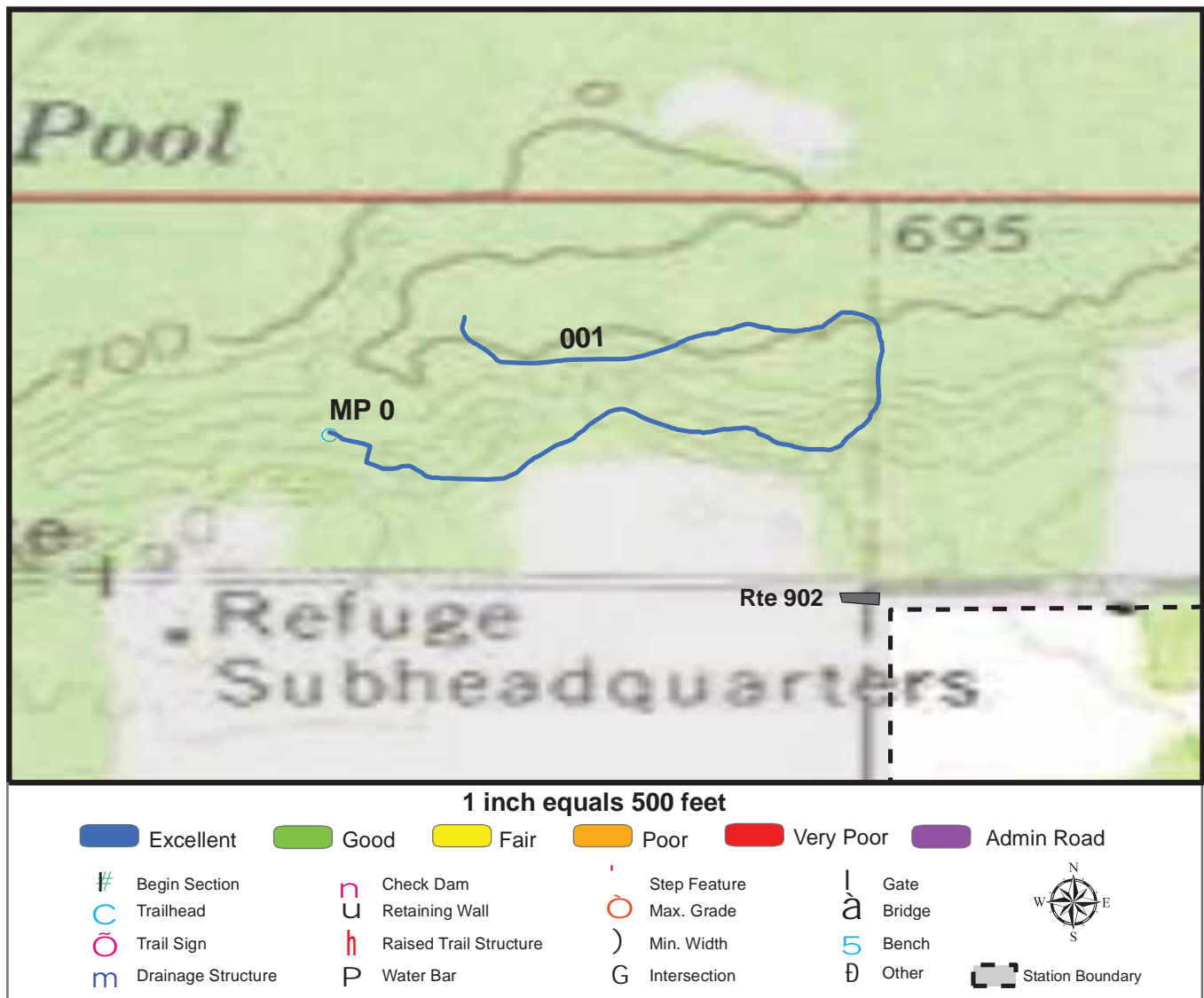
TOTAL LENGTH: 1.13 Miles

Section Number	001	002			
Section Length (miles)	0.86	0.27			
SAMMS Number	10056120	10056120			
Rating Date	8/18/2006	8/19/2006			
Trail Section Information					
Trail Class	TC3	TC3			
Surface Type	Mowed	Admin Road			
Surface Firmness	Firm	Hard			
Width (inches)	60	96			
Average Grade (%)	8.4	8.4			
Average X-slope (%)	2.9	2.9			
Trail Condition Information					
Deferred Maintenance	\$0	\$0			
CRV	\$28900	\$0			
FCI	0	0			
Condition	Excellent	Not Rated			

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
\$0	\$28900	0	Excellent

TRAIL CONDITION



Trail Name: Cub Hollow Ski Trail

Refuge Name: Seney NWR

Trail Number: T301

Region: 3

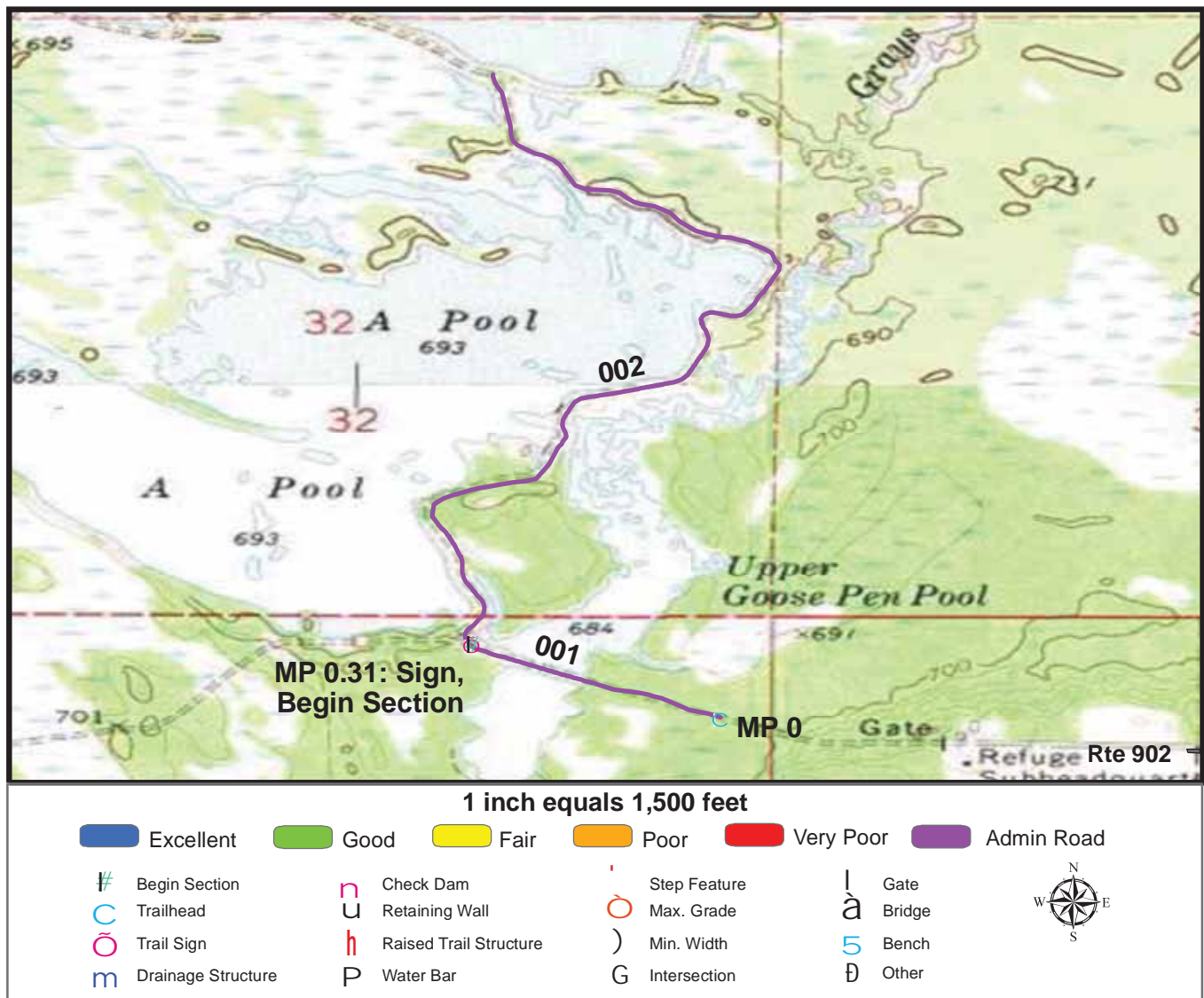
TOTAL LENGTH: 0.5 Miles

Section Number	001				
Section Length (miles)	0.5				
SAMMS Number	10056120				
Rating Date	8/18/2006				
Trail Section Information					
Trail Class	TC3				
Surface Type	Native				
Surface Firmness	Firm				
Width (inches)	60				
Average Grade (%)	4.2				
Average X-slope (%)	2.4				
Trail Condition Information					
Deferred Maintenance	\$0				
CRV	\$66900				
FCI	0				
Condition	Excellent				

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
\$0	\$66900	0	Excellent

TRAIL CONDITION



Trail Name: Otter Run Ski Trail

Refuge Name: Seney NWR

Trail Number: T302

Region: 3

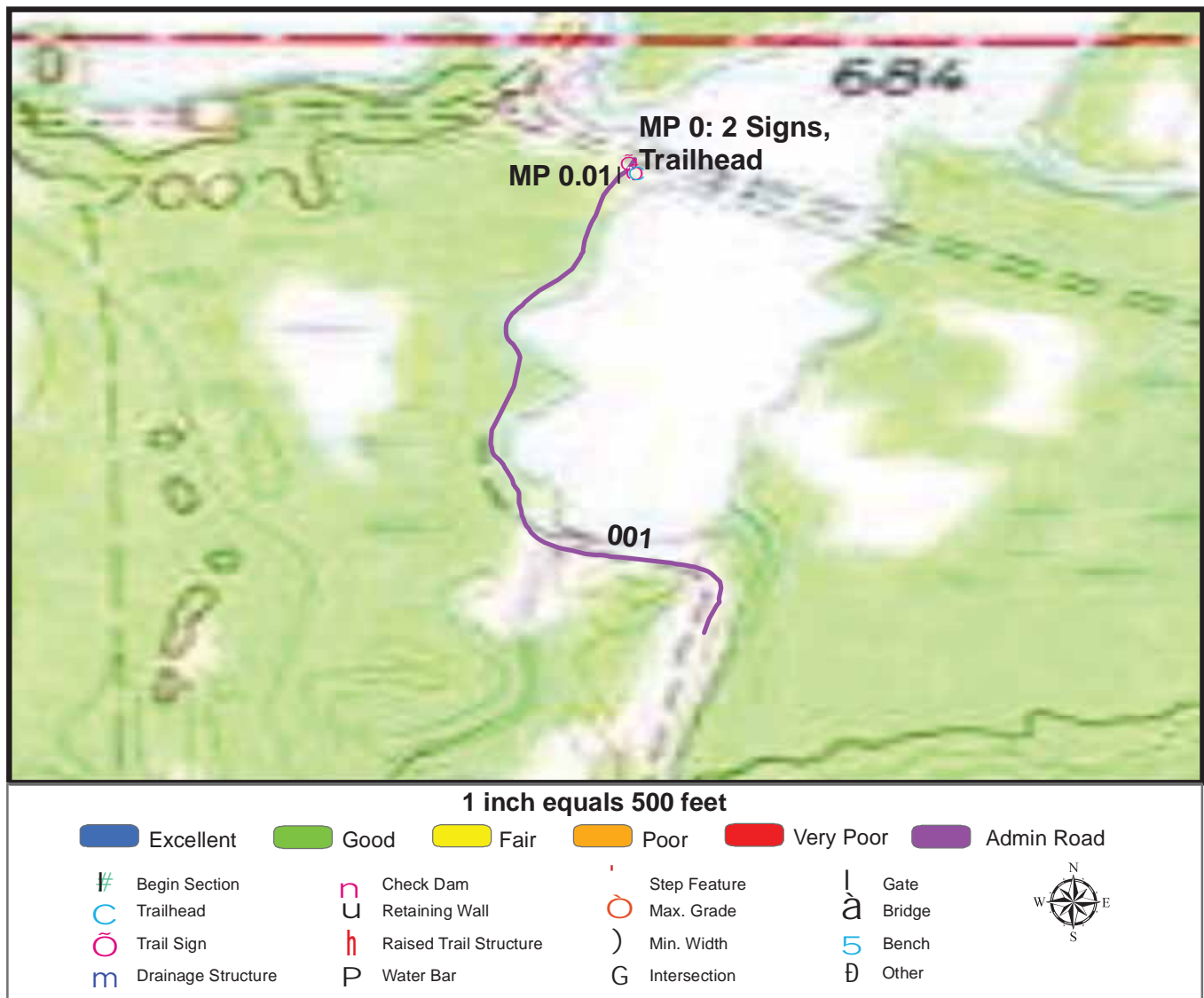
TOTAL LENGTH: 1.73 Miles

Section Number	001	002			
Section Length (miles)	0.31	1.42			
SAMMS Number	10056120	10056120			
Rating Date	8/19/2006	8/19/2006			
Trail Section Information					
Trail Class	TC3	TC3			
Surface Type	Admin Road	Admin Road			
Surface Firmness	Hard	Hard			
Width (inches)	96	96			
Average Grade (%)	5.8	5.8			
Average X-slope (%)	2.4	2.4			
Trail Condition Information					
Deferred Maintenance	\$0	\$0			
CRV	\$0	\$0			
FCI	0	0			
Condition	Not Rated	Not Rated			

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
\$0	\$0	0	Not Rated

TRAIL CONDITION



Trail Name: Goose Pen Bend

Refuge Name: Seney NWR

Trail Number: T303

Region: 3

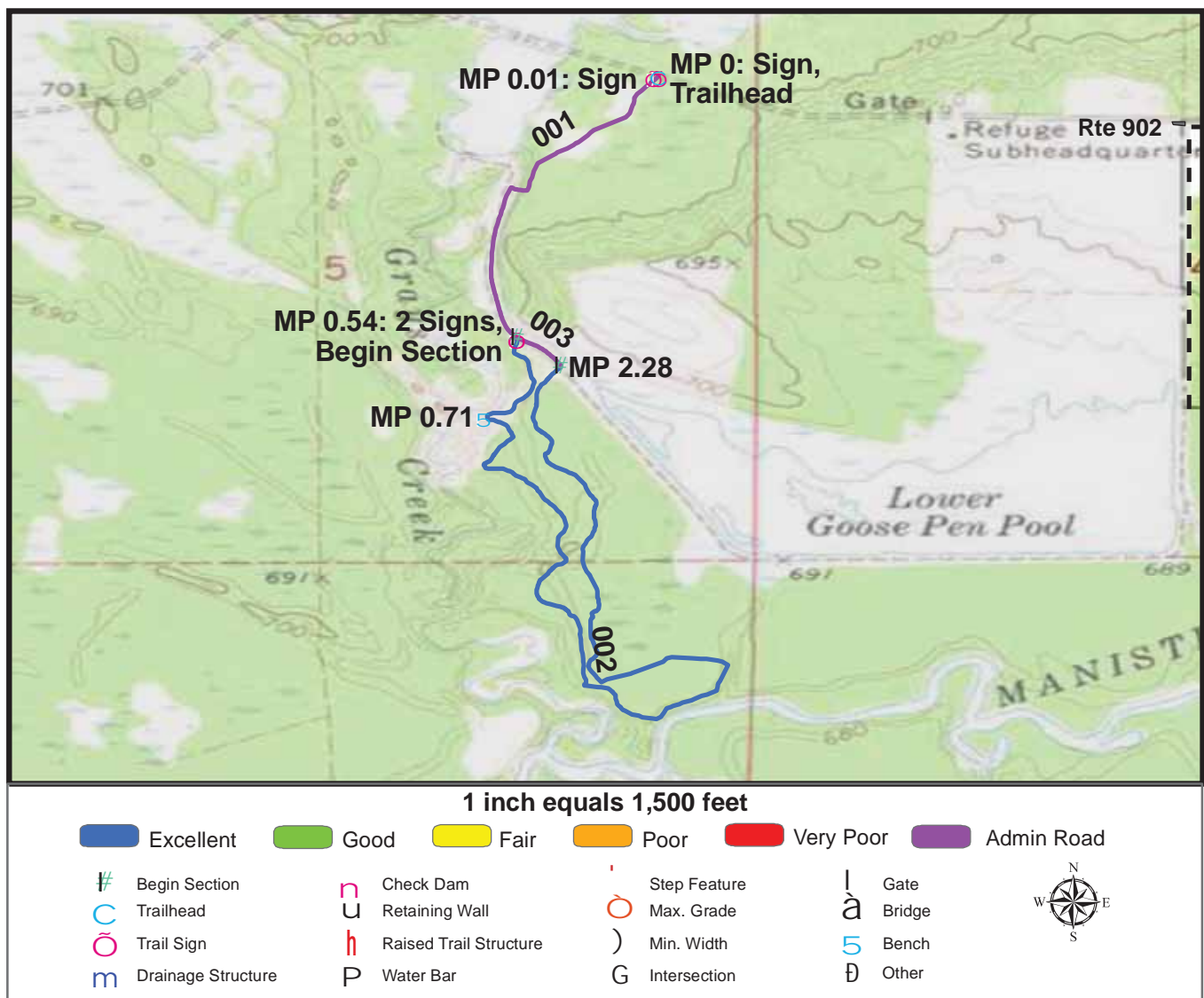
TOTAL LENGTH: 0.34 Miles

Section Number	001				
Section Length (miles)	0.34				
SAMMS Number	10056120				
Rating Date	8/19/2006				
Trail Section Information					
Trail Class	TC3				
Surface Type	Admin Road				
Surface Firmness	Hard				
Width (inches)	96				
Average Grade (%)	6.7				
Average X-slope (%)	3.1				
Trail Condition Information					
Deferred Maintenance	\$0				
CRV	\$0				
FCI	0				
Condition	Not Rated				

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
\$0	\$0	0	Not Rated

TRAIL CONDITION



Trail Name: Manistique River Run

Refuge Name: Seney NWR

Trail Number: T304

Region: 3

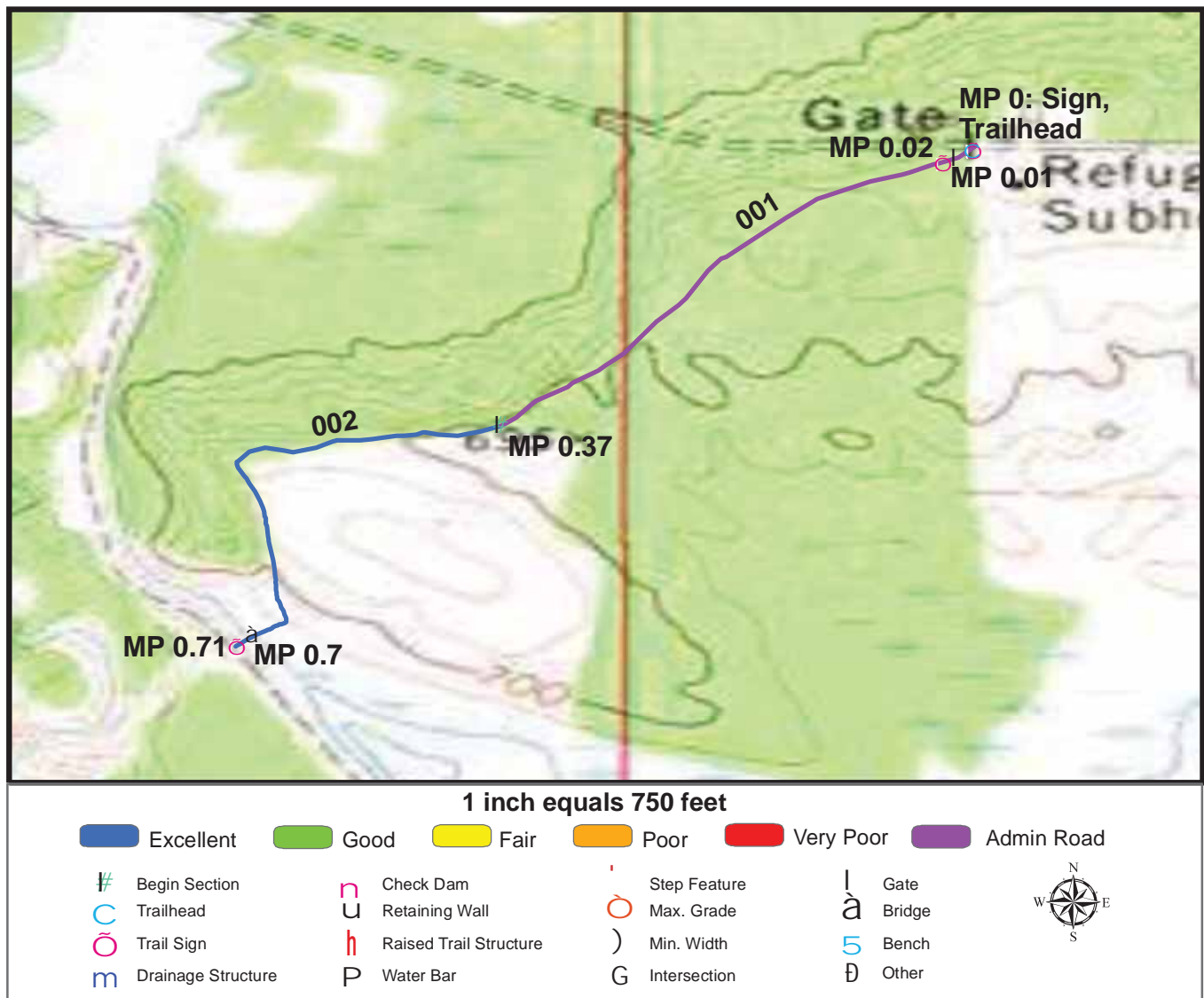
TOTAL LENGTH: 2.35 Miles

Section Number	001	002	003		
Section Length (miles)	0.54	1.74	0.07		
SAMMS Number	10056120	10056120	10056120		
Rating Date	8/19/2006	8/19/2006	8/19/2006		
Trail Section Information					
Trail Class	TC3	TC3	TC3		
Surface Type	Admin Road	Mowed	Admin Road		
Surface Firmness	Hard	Firm	Hard		
Width (inches)	96	96	96		
Average Grade (%)	6.7	6.7	6.7		
Average X-slope (%)	3.1	3.1	3.1		
Trail Condition Information					
Deferred Maintenance	\$0	\$0	\$0		
CRV	\$0	\$93700	\$0		
FCI	0	0	0		
Condition	Not Rated	Excellent	Not Rated		

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
\$0	\$93700	0	Excellent

TRAIL CONDITION



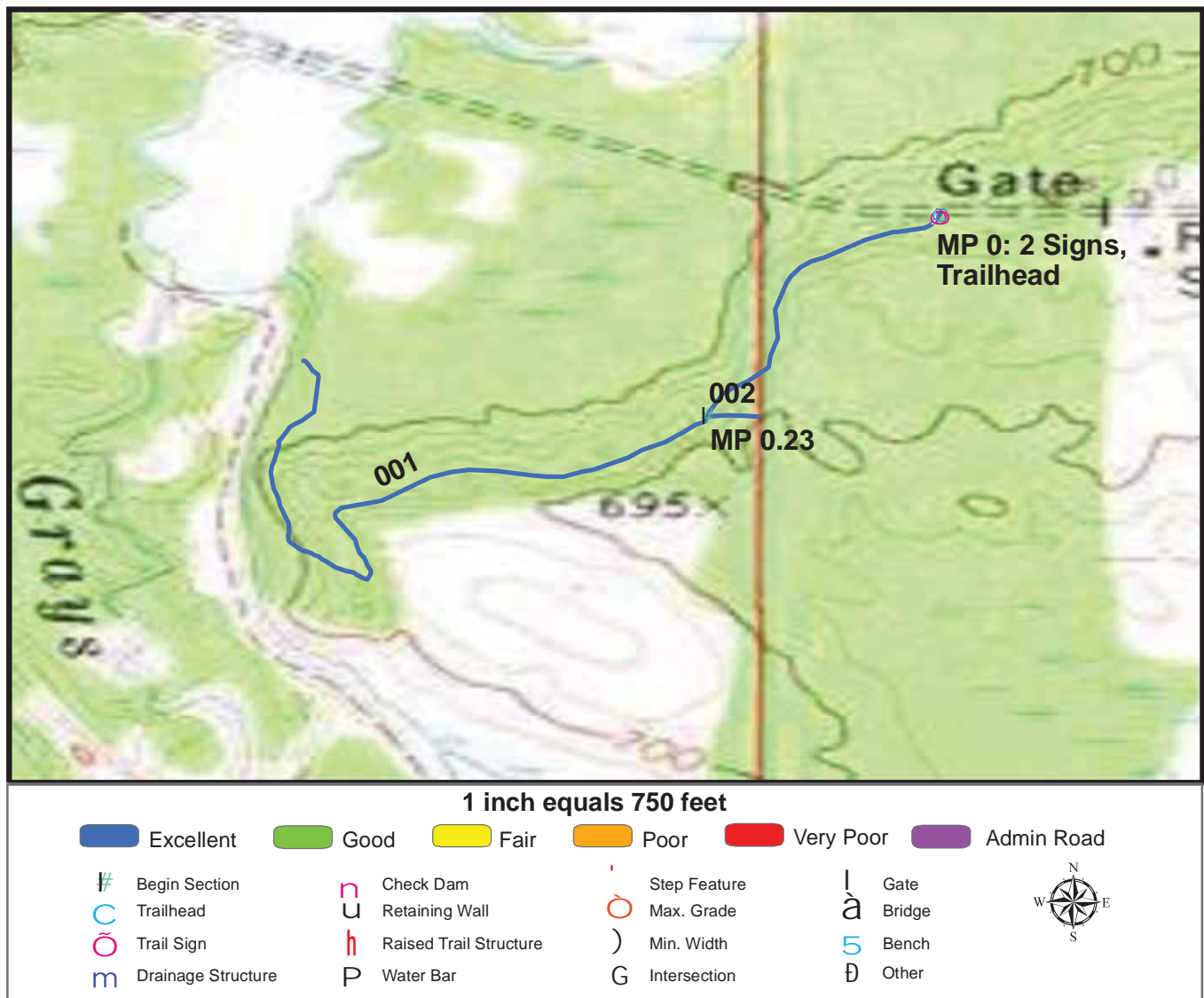
Trail Name: Smith Farm **Refuge Name:** Seney NWR
Trail Number: T305 **Region:** 3 **TOTAL LENGTH:** 0.71 Miles

Section Number	001	002			
Section Length (miles)	0.37	0.34			
SAMMS Number	10056120	10056120			
Rating Date	8/19/2006	8/19/2006			
Trail Section Information					
Trail Class	TC3	TC3			
Surface Type	Admin Road	Mowed			
Surface Firmness	Hard	Hard			
Width (inches)	120	96			
Average Grade (%)	8.4	8.4			
Average X-slope (%)	2.9	2.9			
Trail Condition Information					
Deferred Maintenance	\$0	\$0			
CRV	\$0	\$30800			
FCI	0	0			
Condition	Not Rated	Excellent			

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
\$0	\$30800	0	Excellent

TRAIL CONDITION



Trail Name: Skunk Ridge Ski Trail

Refuge Name: Seney NWR

Trail Number: T306

Region: 3

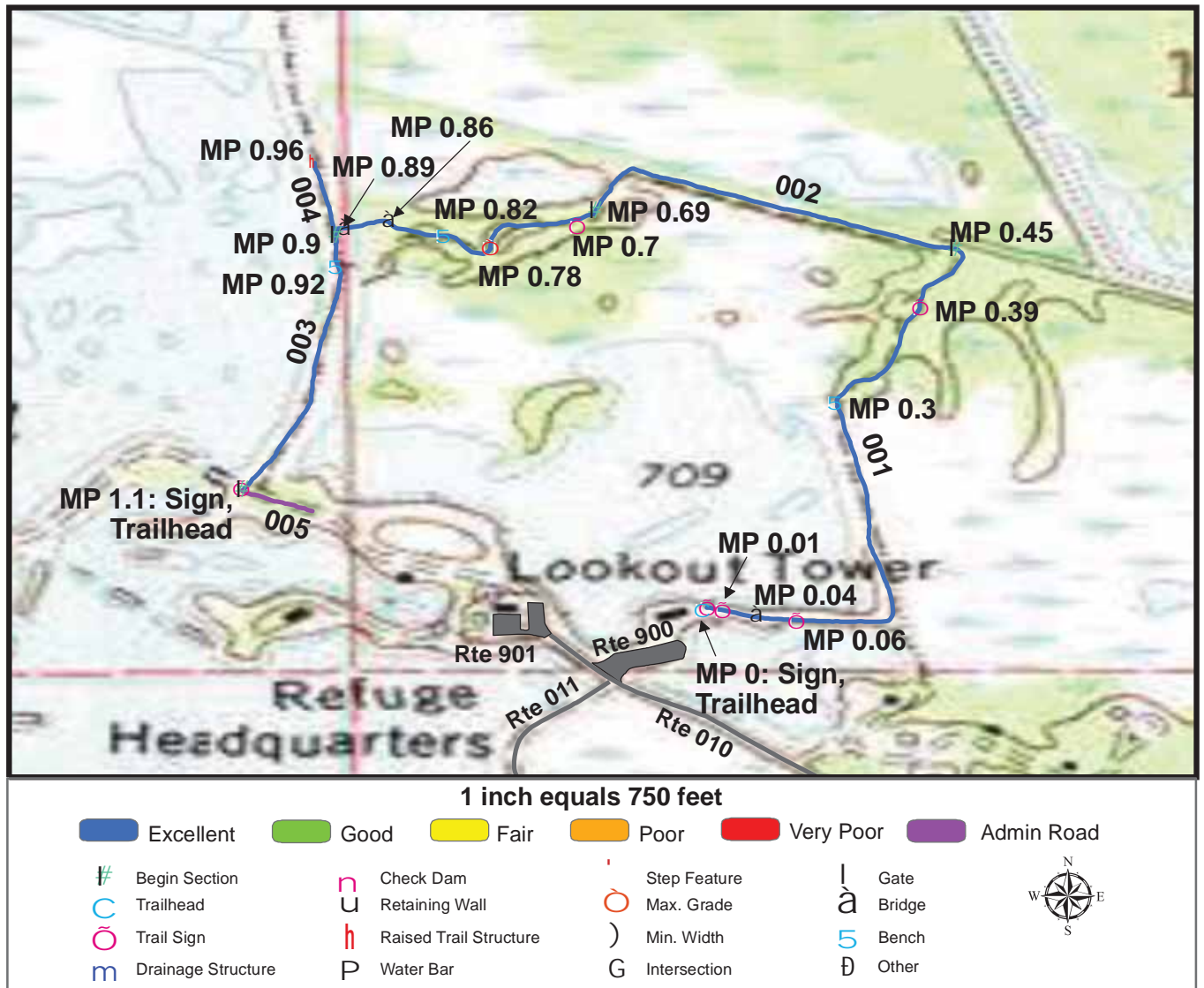
TOTAL LENGTH: 0.79 Miles

Section Number	001	002			
Section Length (miles)	0.76	0.03			
SAMMS Number	10056120	10056120			
Rating Date	8/19/2006	8/19/2006			
Trail Section Information					
Trail Class	TC3	TC3			
Surface Type	Mowed	Mowed			
Surface Firmness	Hard	Hard			
Width (inches)	56	56			
Average Grade (%)	2.9	2.9			
Average X-slope (%)	2.7	2.7			
Trail Condition Information					
Deferred Maintenance	\$0	\$0			
CRV	\$24000	\$900			
FCI	0	0			
Condition	Excellent	Excellent			

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
\$0	\$24900	0	Excellent

TRAIL CONDITION



Trail Name: Pine Ridge Nature Trail

Refuge Name: Seney NWR

Trail Number: T400

Region: 3

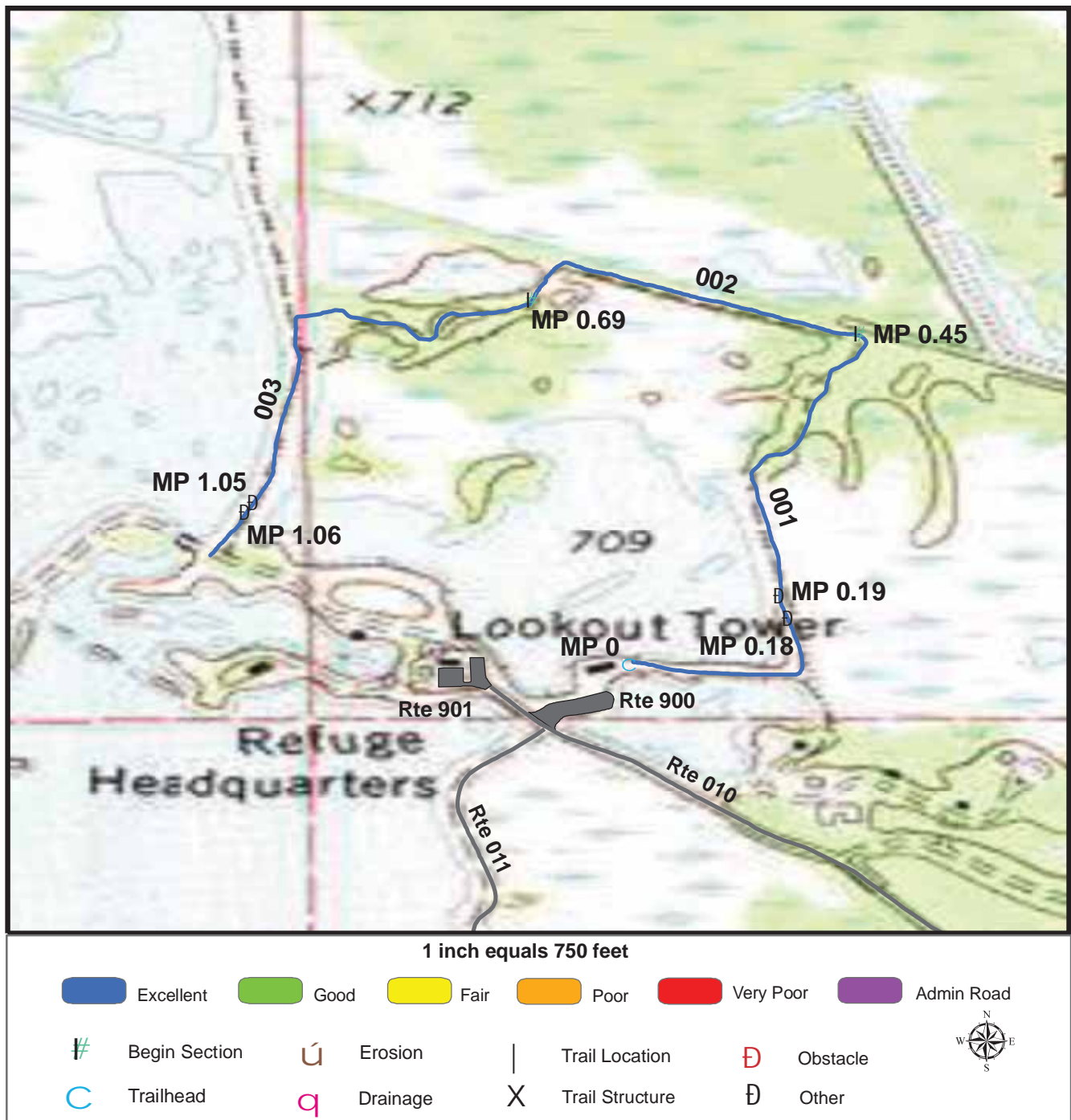
TOTAL LENGTH: 1.36 Miles

Section Number	001	002	003	004	005
Section Length (miles)	0.45	0.24	0.41	0.06	0.04
SAMMS Number	10010432	10010432	10010432	10010432	10010432
Rating Date	8/18/2006	8/18/2006	8/18/2006	8/18/2006	8/18/2006
Trail Section Information					
Trail Class	TC4	TC5	TC4	TC4	TC4
Surface Type	Mowed	Boardwalk	Mowed	Native	Admin Road
Surface Firmness	Hard	Hard	Firm	Firm	Hard
Width (inches)	96	72	72	36	120
Average Grade (%)	5	5	5	5	5
Average X-slope (%)	4.7	4.7	4.7	4.7	4.7
Trail Condition Information					
Deferred Maintenance	\$100	\$0	\$100	\$0	\$0
CRV	\$29500	\$213100	\$31600	\$5100	\$0
FCI	0.003	0	0.003	0	0
Condition	Excellent	Excellent	Excellent	Excellent	Not Rated

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
\$300	\$334300	0.001	Excellent

TRAIL DEFICIENCY



Trail Name: Pine Ridge Nature Trail

Refuge Name: Seney NWR

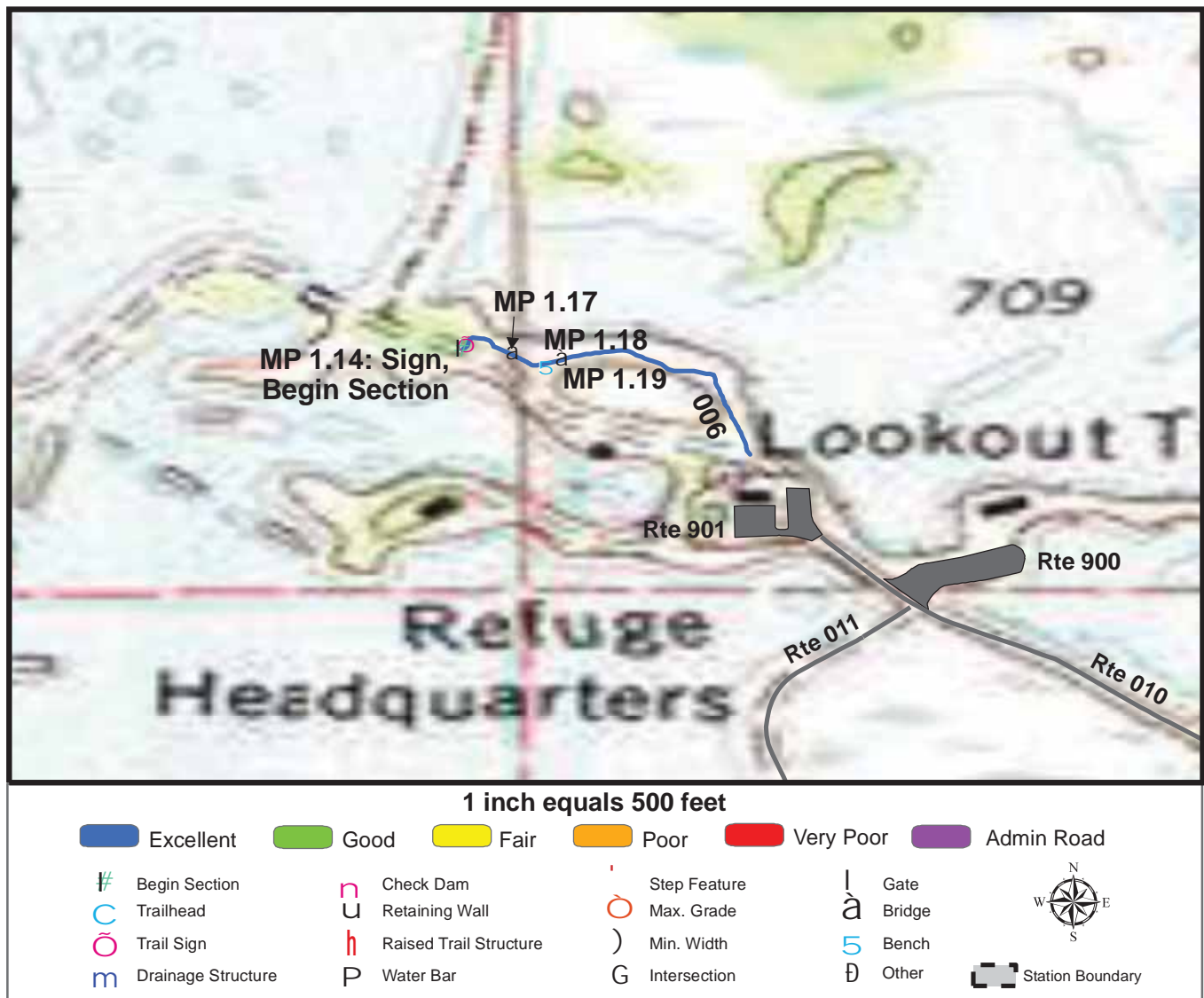
Trail Number: T400

Region: 3

TOTAL LENGTH: 1.36 Miles

Mile Post	0.18	0.19	1.05	1.06
Section Number	001	001	003	003
Photo Number	1553	1554	1569	1570
Deficiency	Other	Other	Other	Other
Action	Repair	Repair	Repair	Repair
Item	Tread -sf	Tread -sf	Tread -sf	Tread -sf
Quantity	30	20	30	10
Deferred Maintenance	\$100	\$50	\$100	\$50

TRAIL CONDITION



Trail Name: Pine Ridge Nature Trail

Refuge Name: Seney NWR

Trail Number: T400

Region: 3

TOTAL LENGTH: 1.36 Miles

Section Number	006				
Section Length (miles)	0.16				
SAMMS Number	10010432				
Rating Date	8/18/2006				
Trail Section Information					
Trail Class	TC4				
Surface Type	Native				
Surface Firmness	Firm				
Width (inches)	60				
Average Grade (%)	5				
Average X-slope (%)	4.7				
Trail Condition Information					
Deferred Maintenance	\$0				
CRV	\$55000				
FCI	0				
Condition	Excellent				

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
\$300	\$334300	0.001	Excellent

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T300**

STATION: Seney NWR

DATE: 8/18/2006



Photo # 1578 - MP 0.0 - Trailhead

TRAIL NUMBER: **T300**

STATION: Seney NWR

DATE: 8/18/2006



Photo # 1577 - MP 0.0 - Sign

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T300**

STATION: Seney NWR

DATE: 8/18/2006



Photo # 1579 - MP 0.0 - Sign

TRAIL NUMBER: **T300**

STATION: Seney NWR

DATE: 8/18/2006



Photo # 1580 - MP 0.14 - Sign

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T300**

STATION: Seney NWR

DATE: 8/18/2006



Photo # 1589 - MP 0.86 - Sign

TRAIL NUMBER: **T300**

STATION: Seney NWR

DATE: 8/19/2006



Photo # 1632 - MP 0.86 - Sign

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T301**

STATION: Seney NWR

DATE: 8/18/2006



Photo # 1581 - MP 0.0 - Trailhead

TRAIL NUMBER: **T302**

STATION: Seney NWR

DATE: 8/19/2006



Photo # 1626 - MP 0.31 - Sign

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T302**

STATION: Seney NWR

DATE: 8/19/2006



Photo # 1627 - MP 0.31 - Begin Section 002

TRAIL NUMBER: **T303**

STATION: Seney NWR

DATE: 8/19/2006



Photo # 1624 - MP 0.0 - Sign

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T303**

STATION: Seney NWR

DATE: 8/19/2006



Photo # 1634 - MP 0.27 - Sign

TRAIL NUMBER: **T304**

STATION: Seney NWR

DATE: 8/19/2006



Photo # 1629 - MP 0.0 - Trailhead, Sign

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T304**

STATION: Seney NWR

DATE: 8/19/2006



Photo # 1633 - MP 0.0 - Sign

TRAIL NUMBER: **T304**

STATION: Seney NWR

DATE: 8/19/2006



Photo # 1615 - MP 0.54 - Begin Section 002, 2 Signs

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T305**

STATION: Seney NWR

DATE: 8/19/2006



Photo # 1630 - MP 0.0 - Sign

TRAIL NUMBER: **T305**

STATION: Seney NWR

DATE: 8/19/2006



Photo # 1623 - MP 0.02 - Sign

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T305**

STATION: Seney NWR

DATE: 8/19/2006



Photo # 1616 - MP 0.7 - Bridge

TRAIL NUMBER: **T305**

STATION: Seney NWR

DATE: 8/19/2006



Photo # 1589 - MP 0.71 - Sign

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T306**

STATION: Seney NWR

DATE: 8/19/2006



Photo # 1625 - MP 0.0 - Trailhead, Sign

TRAIL NUMBER: **T306**

STATION: Seney NWR

DATE: 8/19/2006



Photo # 1589 - MP 0.0 - Sign

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T306**

STATION: Seney NWR

DATE: 8/19/2006



Photo # 1631 - MP 0.0 - Sign

TRAIL NUMBER: **T400**

STATION: Seney NWR

DATE: 8/18/2006



Photo # 1548 - MP 0.0 - Trailhead

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T400**

STATION: Seney NWR

DATE: 8/18/2006



Photo # 1549 - MP 0.0 - Sign

TRAIL NUMBER: **T400**

STATION: Seney NWR

DATE: 8/18/2006



Photo # 1550 - MP 0.01 - Sign

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T400**

STATION: Seney NWR

DATE: 8/18/2006



Photo # 1551 - MP 0.04 - Bridge

TRAIL NUMBER: **T400**

STATION: Seney NWR

DATE: 8/18/2006



Photo # 1552 - MP 0.06 - Sign (Grouped Feature)

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T400**

STATION: Seney NWR

DATE: 8/18/2006



Photo # 1553 - MP 0.18 - Other Deficiency

TRAIL NUMBER: **T400**

STATION: Seney NWR

DATE: 8/18/2006



Photo # 1554 - MP 0.19 - Other Deficiency

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T400**

STATION: Seney NWR

DATE: 8/18/2006



Photo # 1555, 1556 - MP 0.39 - Sign

TRAIL NUMBER: **T400**

STATION: Seney NWR

DATE: 8/18/2006



Photo # 1557 - MP 0.45 - Begin Section 002

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T400**

STATION: Seney NWR

DATE: 8/18/2006



Photo # 1558 - MP 0.69 - Begin Section 003

TRAIL NUMBER: **T400**

STATION: Seney NWR

DATE: 8/18/2006



Photo # 1559 - MP 0.7 - Sign

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T400**

STATION: Seney NWR

DATE: 8/18/2006



Photo # 1562 - MP 0.86 - Bridge

TRAIL NUMBER: **T400**

STATION: Seney NWR

DATE: 8/18/2006



Photo # 1563 - MP 0.89 - Bridge

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T400**

STATION: Seney NWR

DATE: 8/18/2006



Photo # 1564 - MP 0.9 - Begin Section 004

TRAIL NUMBER: **T400**

STATION: Seney NWR

DATE: 8/18/2006



Photo # 1569 - MP 1.05 - Other Deficiency (Grouped Feature)

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T400**

STATION: Seney NWR

DATE: 8/18/2006



Photo # 1570 - MP 1.06 - Other Deficiency (Grouped Feature)

TRAIL NUMBER: **T400**

STATION: Seney NWR

DATE: 8/18/2006



Photo # 1571 - MP 1.1 - Sign (Grouped Feature)

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T400**

STATION: Seney NWR

DATE: 8/18/2006



Photo # 1572 - MP 1.1 - Begin Section 005

TRAIL NUMBER: **T400**

STATION: Seney NWR

DATE: 8/18/2006



Photo # 1573 - MP 1.14 - Sign

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T400**

STATION: Seney NWR

DATE: 8/18/2006



Photo # 1574 - MP 1.14 - Begin Section 006

TRAIL NUMBER: **T400**

STATION: Seney NWR

DATE: 8/18/2006



Photo # 1575 - MP 1.17 - Bridge

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T400**

STATION: Seney NWR

DATE: 8/18/2006



Photo # 1576 - MP 1.19 - Bridge

The Trail Inventory of Shiawassee National Wildlife Refuge Saginaw, Michigan



**Prepared By:
Federal Highway Administration
Central Federal Lands Highway Division
August 2006**



Shiawassee NWR

Trail and Trail Feature Summaries

Trail Miles and Percentages by Surface Type and Condition

Trail Surface Type	Mileage by Trail Condition												Total Miles
	Excellent		Good		Fair		Poor		Very Poor		Not Rated*		
	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	
Native	5.49	40%	3.69	27%	1.32	10%		0%		0%		0%	10.50
Gravel	0.39	3%		0%		0%		0%		0%		0%	0.39
Asphalt		0%		0%		0%		0%		0%		0%	0.00
Concrete		0%		0%		0%		0%		0%		0%	0.00
Turnpike		0%		0%		0%		0%		0%		0%	0.00
Boardwalk		0%		0%		0%		0%		0%		0%	0.00
Puncheon		0%		0%		0%		0%		0%		0%	0.00
Woodchips	0.15	1%		0%		0%		0%		0%		0%	0.15
Mowed		0%		0%		0%		0%		0%		0%	0.00
Admin Road		0%		0%		0%		0%		0%	2.57	19%	2.57
Other		0%		0%		0%		0%		0%		0%	0.00
Totals	6.03	44%	3.69	27%	1.32	10%	0.00	0%	0.00	0%	2.57	19%	13.61

Trail Miles and Percentages by Trail Classification and Condition

Trail Classificatio n	Mileage by Trail Condition												Total Miles
	Excellent		Good		Fair		Poor		Very Poor		Not Rated*		
	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	
TC1		0%		0%		0%		0%		0%		0%	0.00
TC2	0.14	1%		0%		0%		0%		0%		0%	0.14
TC3	5.59	41%	3.69	27%	1.32	10%		0%		0%	2.57	19%	13.17
TC4	0.30	2%		0%		0%		0%		0%		0%	0.30
TC5		0%		0%		0%		0%		0%		0%	0.00
Totals	6.03	44%	3.69	27%	1.32	10%	0.00	0%	0.00	0%	2.57	19%	13.61

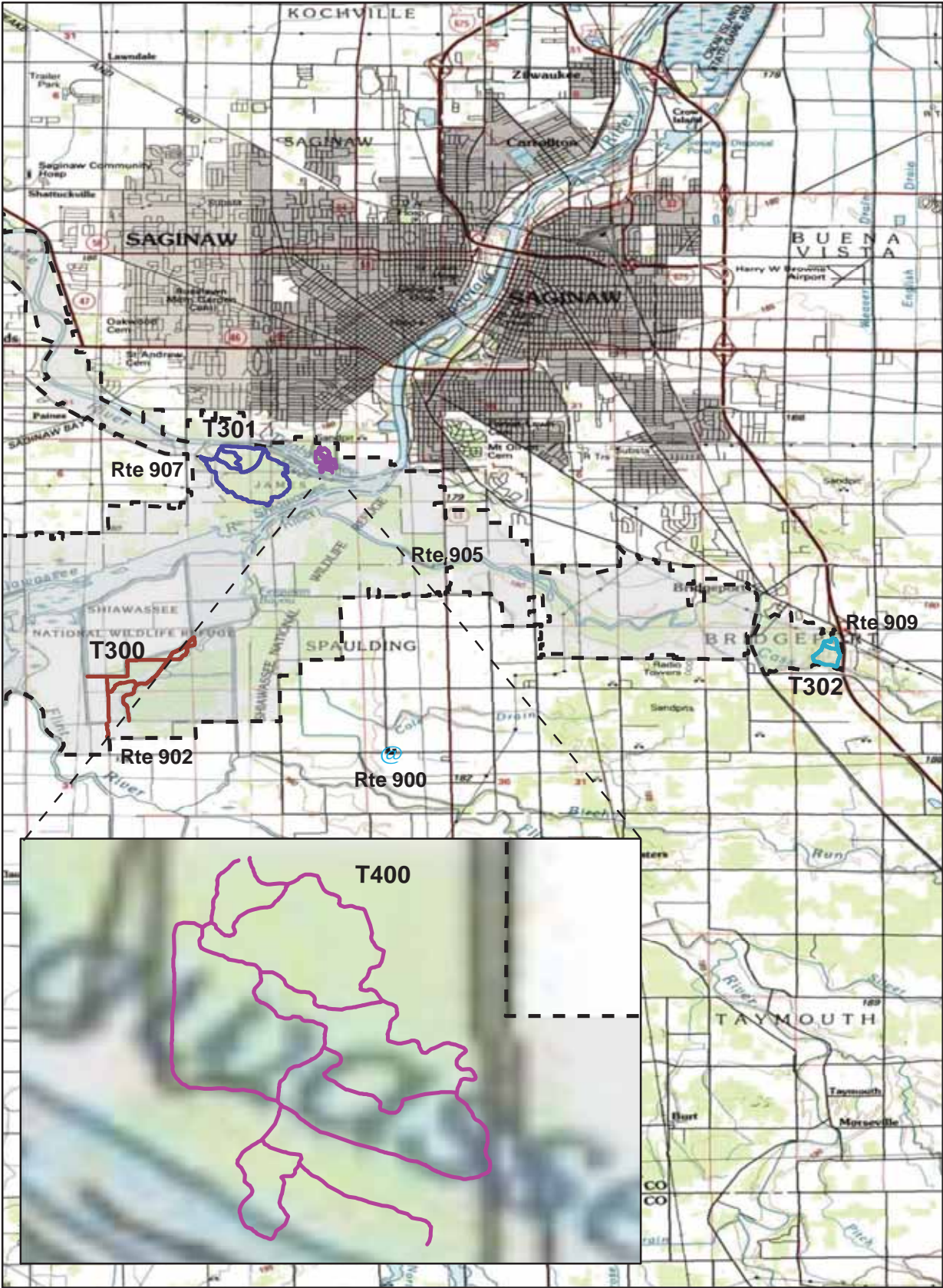
* Admin Roads are included in the inventory but are not rated for condition.

Trail Features

Trail Number	Feature Type	Quantity	Grouped Feature	Milepost	Photo
T300	Sign	1	No	0.00	1426
T300	Sign	4	Yes	N/A	1427, 1428
T300	Lookout/Ob Deck	1	No	0.00	N/A
T300	Bench	2	No	0.00	N/A
T300	Bench	1	No	0.00	N/A
T300	Sign	1	No	0.22	1431
T300	Sign	5	Yes	N/A	1431
T300	Bench	1	No	0.22	N/A
T300	Bench	1	No	0.69	N/A
T300	Sign	1	No	0.70	1433
T300	Culvert -lf	10	No	0.71	N/A
T300	Sign	4	No	0.79	1438
T300	Culvert -lf	20	No	0.93	N/A
T300	Sign	1	No	0.94	1439
T300	Bench	1	No	1.09	N/A
T300	Culvert -lf	24	No	1.15	N/A
T300	Sign	1	No	1.16	1437
T300	Lookout/Ob Deck	1	No	1.17	N/A
T300	Sign	1	No	1.41	1450
T300	Bench	1	No	1.41	N/A
T300	Sign	1	No	1.94	1454
T300	Sign	1	No	1.94	1455
T300	Culvert -lf	50	No	1.95	N/A
T300	Bridge -sf	352	No	2.19	1456
T300	Lookout/Ob Deck	1	No	2.19	N/A
T300	Bench	1	No	2.24	N/A
T300	Sign	2	No	2.49	1458, 1459
T300	Bench	1	No	2.49	N/A
T300	Lookout/Ob Deck	1	No	2.49	N/A
T300	Bench	1	No	2.85	N/A
T300	Bench	1	No	3.24	N/A
T300	Bench	1	No	3.57	N/A
T300	Bench	1	No	3.97	N/A
T301	Sign	10	No	0.00	1480, 1481
T301	Sign	2	No	0.01	1517
T301	Culvert -lf	20	No	0.31	N/A
T301	Bridge -sf	420	No	0.96	1498
T301	Bench	1	No	1.02	N/A
T301	Bench	1	No	1.78	N/A
T301	Sign	7	Yes	N/A	1509
T301	Bench	1	No	2.68	N/A
T301	Culvert -lf	10	No	3.22	N/A
T301	Bench	1	No	3.34	N/A
T301	Sign	1	No	3.48	1511
T301	Bridge -sf	455	No	3.52	1515
T301	Bench	1	No	3.55	N/A
T302	Sign	12	Yes	N/A	1532-3
T302	Culvert -lf	11	No	0.29	N/A
T302	Culvert -lf	11	No	0.30	N/A
T302	Culvert -lf	11	No	0.35	N/A
T302	Culvert -lf	13	No	0.41	N/A

T302	Culvert -lf	11	No	0.43	N/A
T302	Culvert -lf	24	No	0.51	N/A
T302	Culvert -lf	20	No	0.62	N/A
T302	Culvert -lf	25	No	1.06	N/A
T302	Culvert -lf	20	No	1.18	N/A
T302	Other	1	No	1.19	N/A
T400	Sign	1	No	0.00	1520
T400	Sign	14	Yes	N/A	1521
T400	Bench	1	No	0.25	N/A
T400	Bench	1	No	0.47	N/A
T400	Bench	1	No	0.75	N/A
T400	Bridge -sf	520	No	0.76	1526
T400	Sign	1	No	0.77	1527
T400	Bench	1	No	0.81	N/A
T400	Bench	1	No	0.88	N/A
T400	Bench	1	No	1.00	N/A
sf-square feet					
lf-linear feet					
cf-cubic feet					

SHIAWASSEE NATIONAL WILDLIFE REFUGE TRAIL LOCATION MAP



Station Boundary

@ HQ/VC

0 3 6 Miles

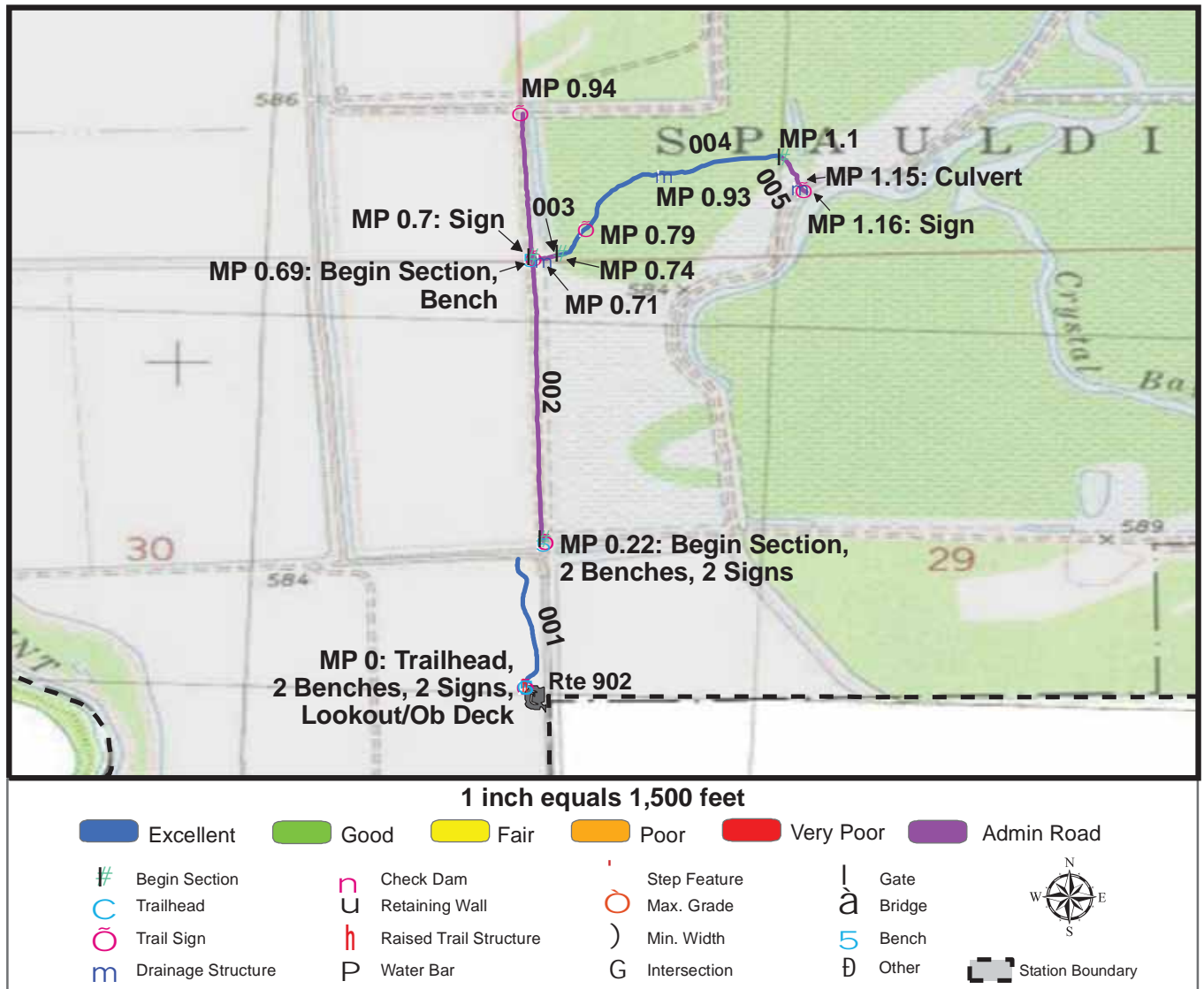
TRAILS ID

Station Name: Shiawassee NWR

Org. Code: 31520

Trail #	Trail Name	Surface Type	SAMMS	Trail Mileage	Trail Description (Begin and End point of trail)
T300	Ferguson Bayou Nature Trail	Native, Admin Road	10036101	4.93	From Refuge Nature Trail Parking (Rte 902) to Refuge Auto Tour Route (Rte 010)
T301	Stroebeel Woodland Nature Trail	Native	10036042	5.02	From Strobel Road Parking Lot (Rte 907) to end of loop.
T302	Cass River Nature Trail	Native	10055674	1.47	From Cass River Parking (Rte 909) to Cass River Parking (Rte 909)
T400	Green Point Nature Trail	Native, Wood Chips, Gravel	10036103	2.19	From Visitor Center to end of loop

TRAIL CONDITION



Trail Name: Ferguson Bayou Nature Trail

Refuge Name: Shiawassee NWR

Trail Number: T300

Region: 3

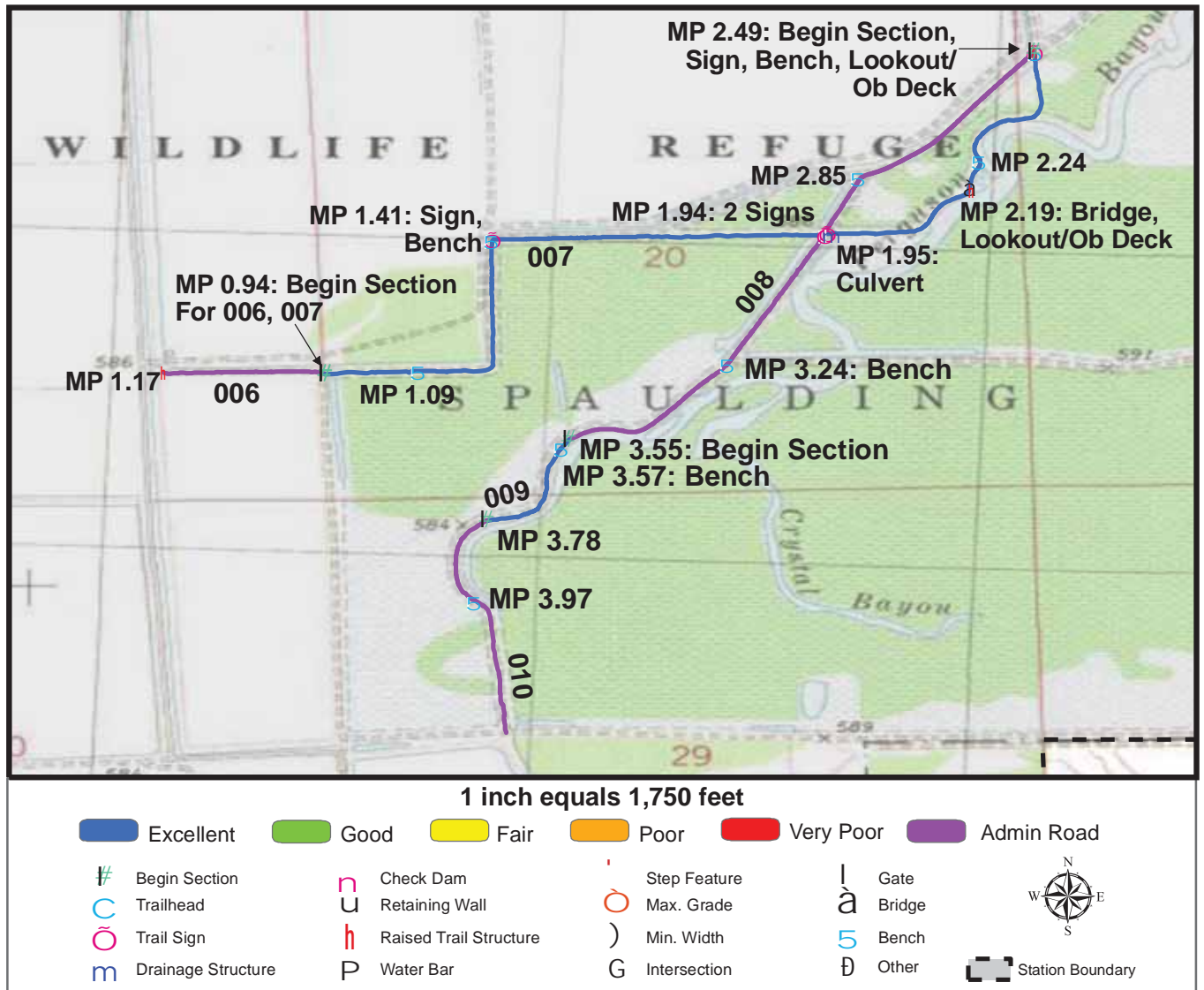
TOTAL LENGTH: 4.93 Miles

Section Number	001	002	003	004	005
Section Length (miles)	0.22	0.72	0.04	0.36	0.07
SAMMS Number	10036101	10036101	10036101	10036101	10036101
Rating Date	8/16/2006	8/16/2006	8/16/2006	8/16/2006	8/16/2006
Trail Section Information					
Trail Class	TC3	TC3	TC3	TC3	TC3
Surface Type	Native	Admin Road	Admin Road	Native	Admin Road
Surface Firmness	Firm	Firm	Firm	Firm	Firm
Width (inches)	84	96	96	36	120
Average Grade (%)	3.3	3.3	3.3	3.3	3.3
Average X-slope (%)	1.8	1.8	1.8	1.8	1.8
Trail Condition Information					
Deferred Maintenance	\$0	\$0	\$0	\$0	\$0
CRV	\$39857	\$0	\$0	\$29911	\$0
FCI	0	0	0	0	0
Condition	Excellent	Not Rated	Not Rated	Excellent	Not Rated

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
\$179	\$449370	0	Excellent

TRAIL CONDITION



Trail Name: Ferguson Bayou Nature Trail

Refuge Name: Shiawassee NWR

Trail Number: T300

Region: 3

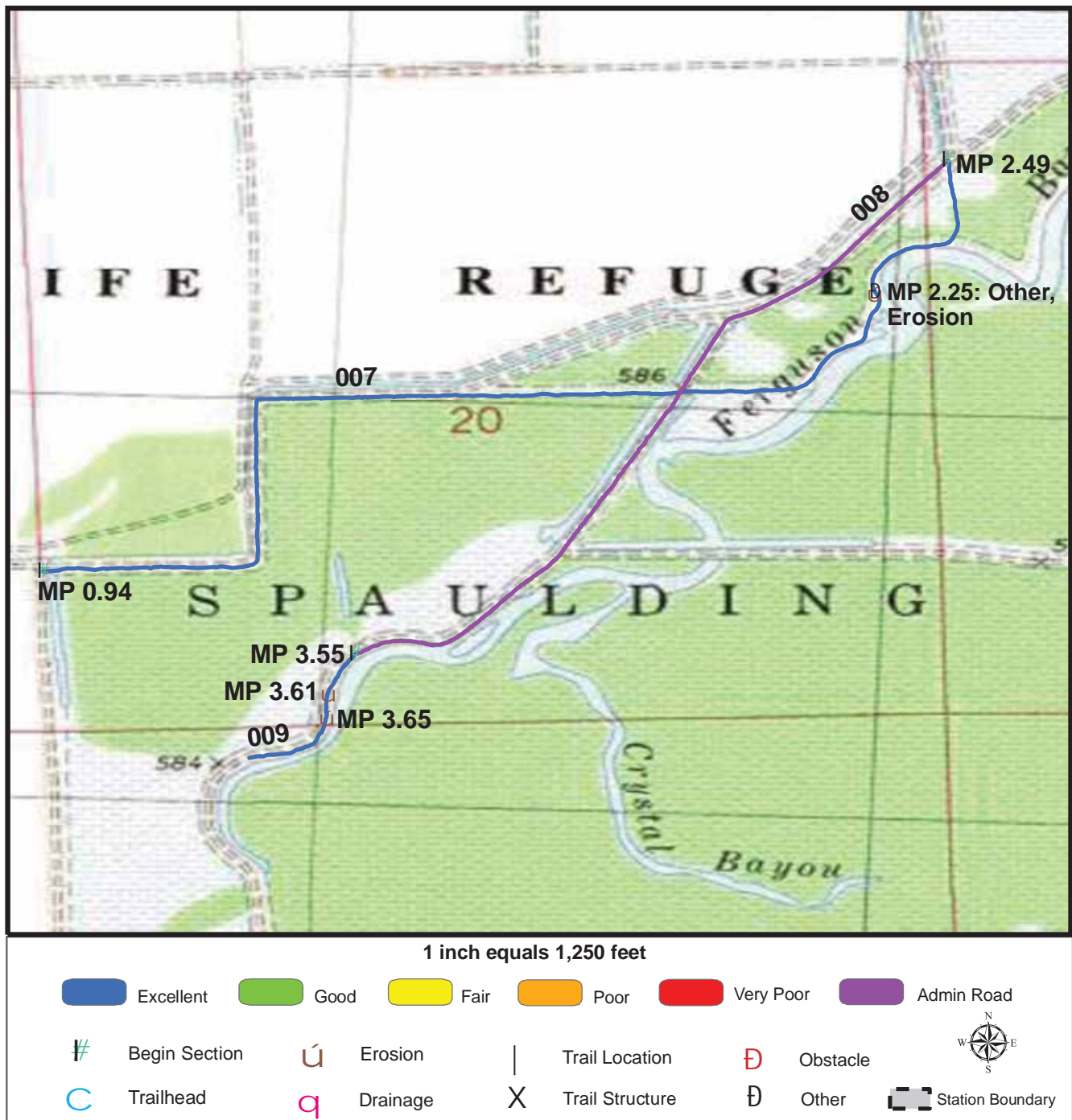
TOTAL LENGTH: 4.93 Miles

Section Number	006	007	008	009	010
Section Length (miles)	0.23	1.55	1.06	0.23	0.45
SAMMS Number	10036101	10036101	10036101	10036101	10036101
Rating Date	8/16/2006	8/16/2006	8/16/2006	8/16/2006	8/16/2006
Trail Section Information					
Trail Class	TC3	TC3	TC3	TC3	TC3
Surface Type	Admin Road	Native	Admin Road	Native	Admin Road
Surface Firmness	Firm	Firm	Firm	Firm	Firm
Width (inches)	144	90	120	108	120
Average Grade (%)	3.3	3.3	3.3	3.3	3.3
Average X-slope (%)	1.8	1.8	1.8	1.8	1.8
Trail Condition Information					
Deferred Maintenance	\$0	\$100	\$0	\$100	\$0
CRV	\$0	\$327351	\$0	\$52249	\$0
FCI	0	0	0	0.002	0
Condition	Not Rated	Excellent	Not Rated	Excellent	Not Rated

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
\$179	\$449370	0	Excellent

TRAIL DEFICIENCY



Trail Name: Ferguson Bayou Nature Trail

Refuge Name: Shiawassee NWR

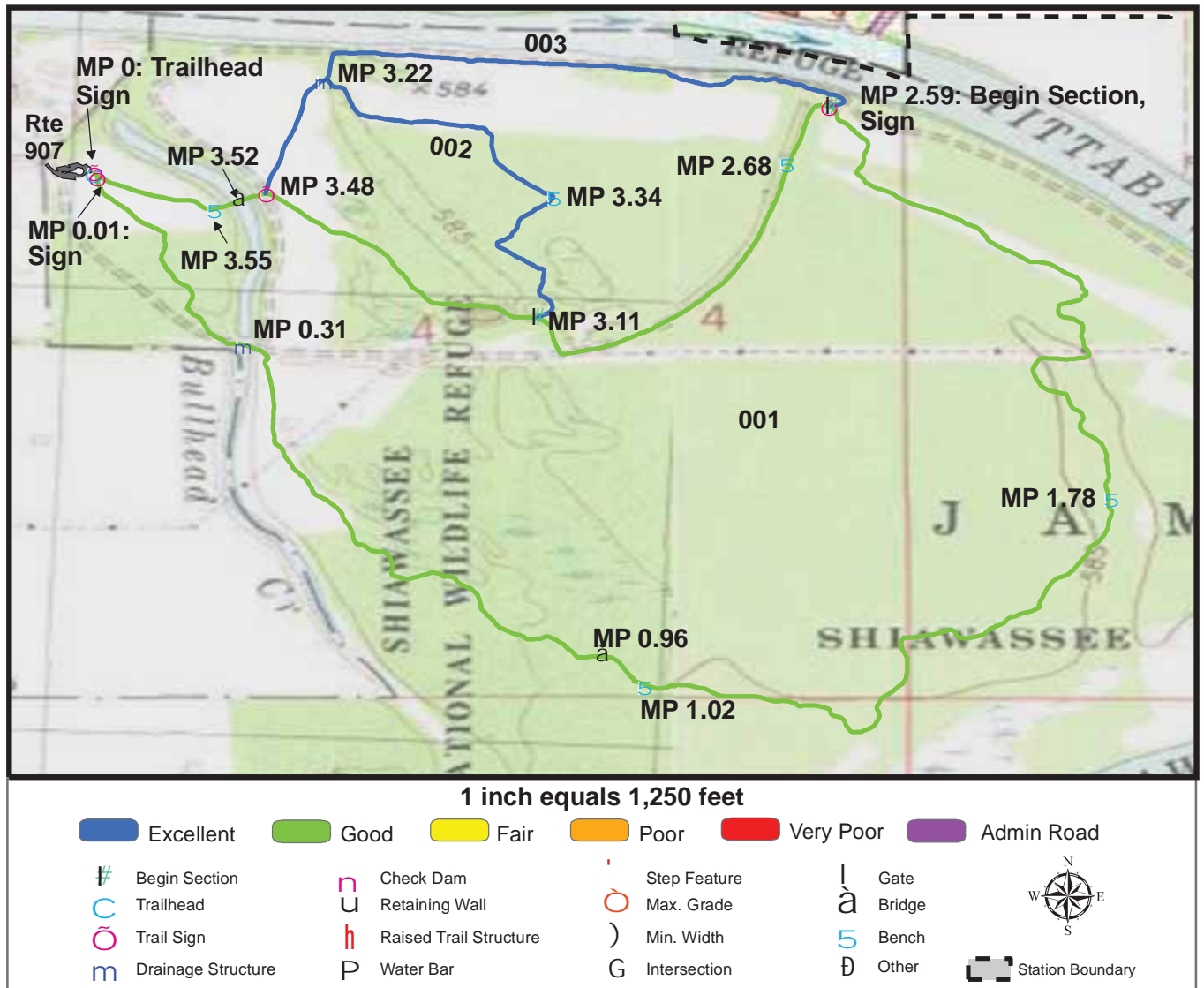
Trail Number: T300

Region: 3

TOTAL LENGTH: 4.93 Miles

Mile Post	2.25	2.25	3.61	3.65
Section Number	007	007	009	009
Photo Number	1457	1457	1474	1475
Deficiency	Erosion	Other	Erosion	Erosion
Action	Repair	Repair	Repair	Repair
Item	Tread -sf	Other	Tread -sf	Tread -sf
Quantity	1	1	8	4
Deferred Maintenance	\$51	\$0	\$68	\$58

TRAIL CONDITION



Trail Name: Stroebel Woodland Nature Trail

Refuge Name: Shiawassee NWR

Trail Number: T301

Region: 3

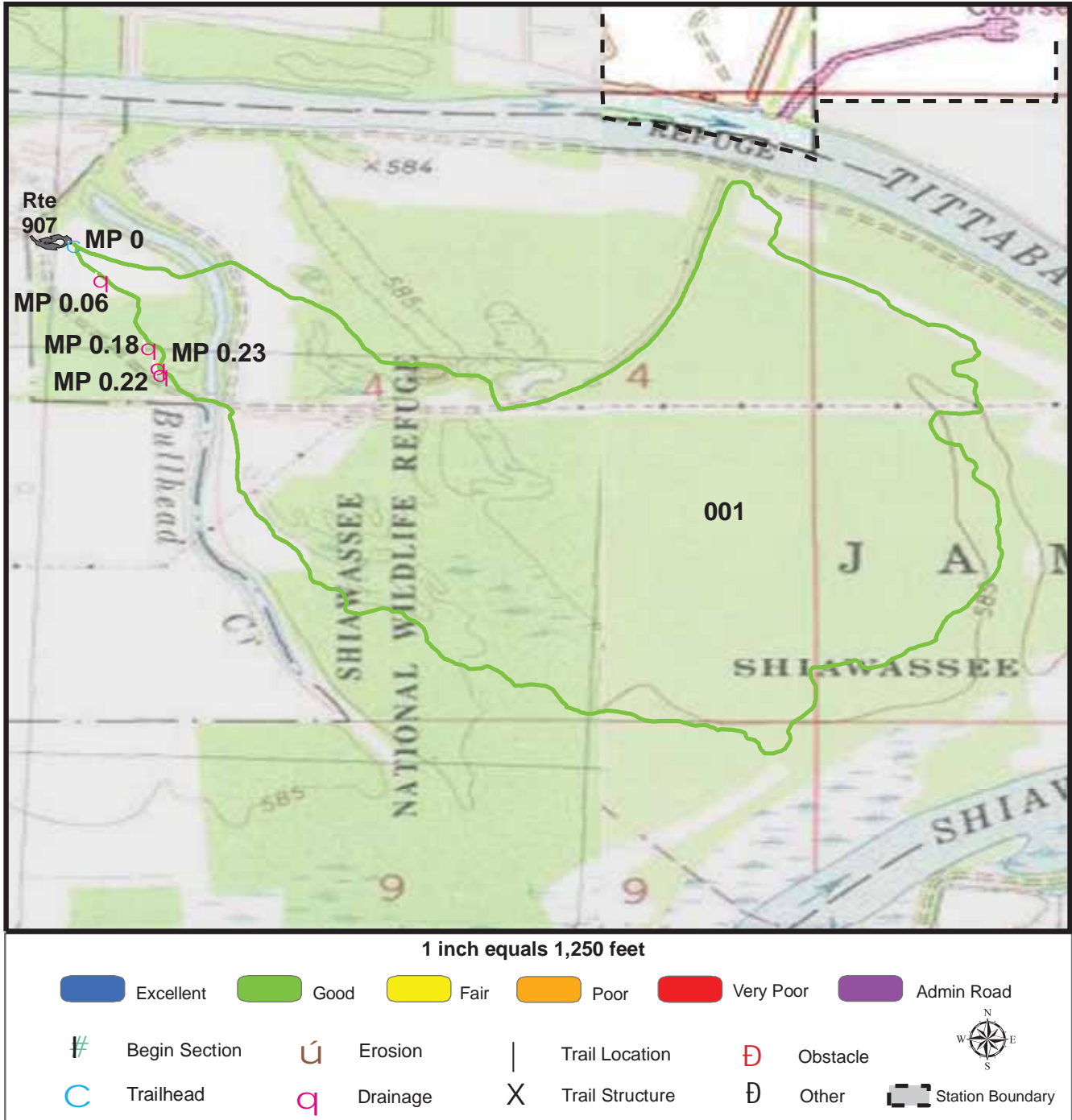
TOTAL LENGTH: 5.02 Miles

Section Number	001	002	003		
Section Length (miles)	3.69	0.56	0.77		
SAMMS Number	10036042	10036042	10036042		
Rating Date	8/16/2006	8/16/2006	8/16/2006		
Trail Section Information					
Trail Class	TC3	TC3	TC3		
Surface Type	Native	Native	Native		
Surface Firmness	Firm	Firm	Firm		
Width (inches)	60	84	72		
Average Grade (%)	1.1	1.1	1.1		
Average X-slope (%)	1.2	1.2	1.2		
Trail Condition Information					
Deferred Maintenance	\$22836	\$0	\$308		
CRV	\$532438	\$100124	\$120445		
FCI	0.043	0	0.002		
Condition	Good	Excellent	Excellent		

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
\$23144	\$753007	0.031	Good

TRAIL DEFICIENCY



Trail Name: Stroebel Woodland Nature Trail

Refuge Name: Shiawassee NWR

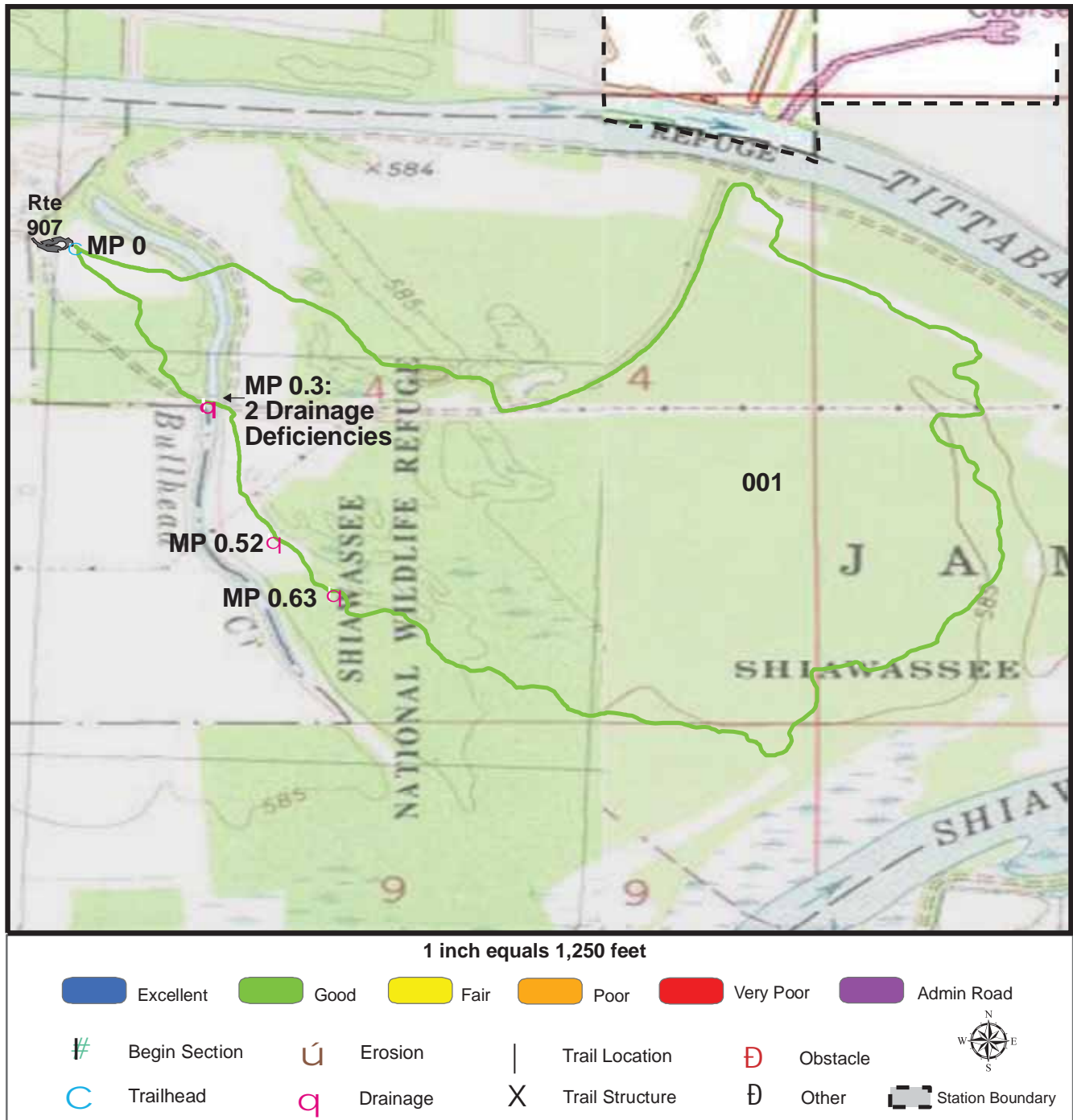
Trail Number: T301

Region: 3

TOTAL LENGTH: 5.02 Miles

Mile Post	0.06	0.18	0.22	0.23
Section Number	001	001	001	001
Photo Number	1483	1484	1485, 1486	1487, 1488
Deficiency	Drainage	Drainage	Drainage	Drainage
Action	Repair	Repair	Repair	Repair
Item	Tread -sf	Tread -sf	Tread -sf	Tread -sf
Quantity	12	10	30	40
Deferred Maintenance	\$78	\$73	\$122	\$146

TRAIL DEFICIENCY



Trail Name: Stroebel Woodland Nature Trail

Refuge Name: Shiawassee NWR

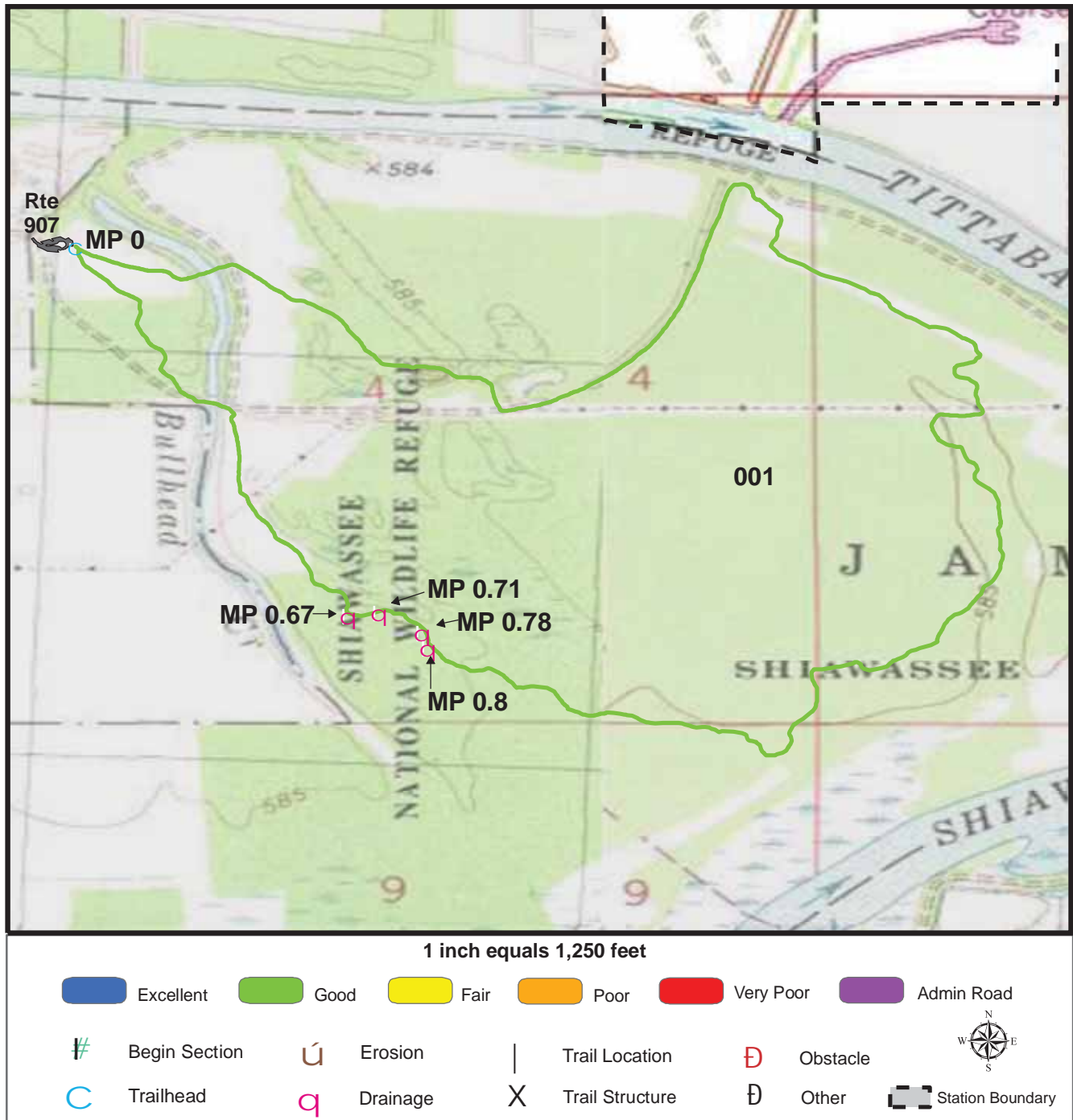
Trail Number: T301

Region: 3

TOTAL LENGTH: 5.02 Miles

Mile Post	0.3	0.3	0.52	0.63
Section Number	001	001	001	001
Photo Number	1489	1489	1490	1491
Deficiency	Drainage	Drainage	Drainage	Drainage
Action	Build/Add	Repair	Repair	Build/Add
Item	Puncheon -lf	Tread -sf	Tread -sf	Puncheon -lf
Quantity	30	120	12	10
Deferred Maintenance	\$385	\$341	\$78	\$161

TRAIL DEFICIENCY



Trail Name: Stroebel Woodland Nature Trail

Refuge Name: Shiawassee NWR

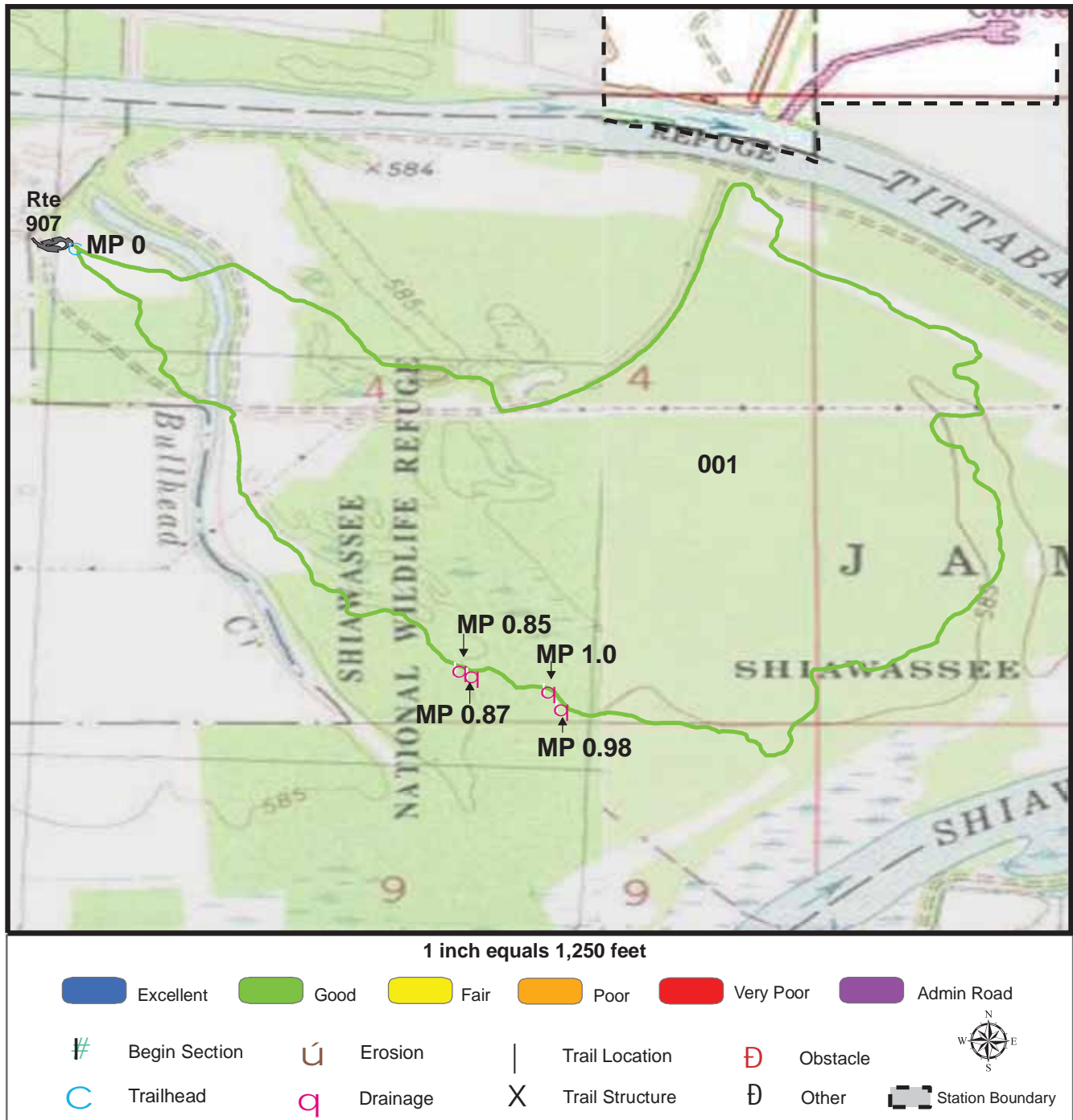
Trail Number: T301

Region: 3

TOTAL LENGTH: 5.02 Miles

Mile Post	0.67	0.71	0.78	0.8
Section Number	001	001	001	001
Photo Number	1492	1493	1494	1495
Deficiency	Drainage	Drainage	Drainage	Drainage
Action	Repair	Build/Add	Build/Add	Repair
Item	Tread -sf	Puncheon -lf	Puncheon -lf	Tread -sf
Quantity	12	20	30	10
Deferred Maintenance	\$78	\$273	\$385	\$73

TRAIL DEFICIENCY



Trail Name: Stroebel Woodland Nature Trail

Refuge Name: Shiawassee NWR

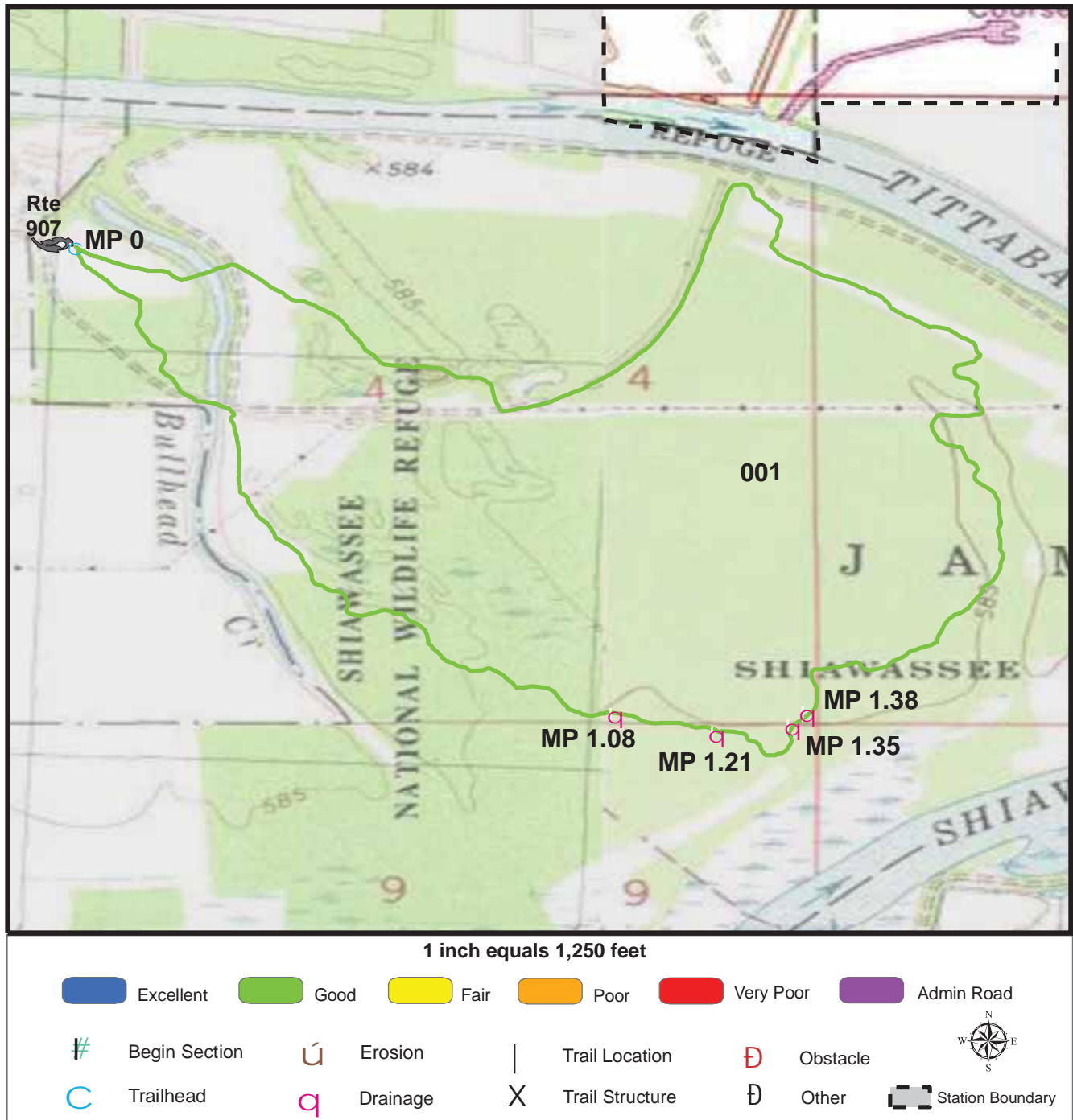
Trail Number: T301

Region: 3

TOTAL LENGTH: 5.02 Miles

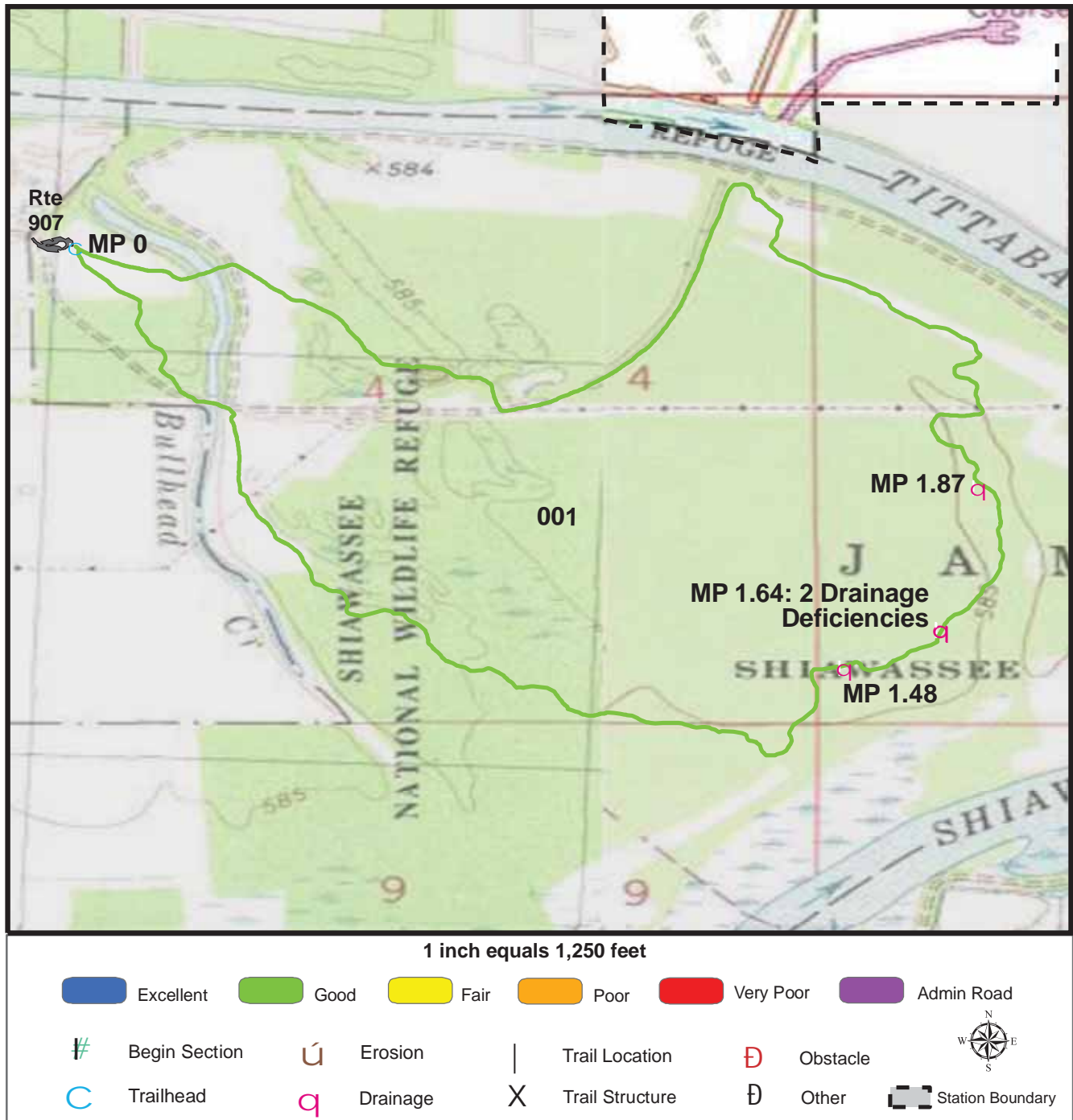
Mile Post	0.85	0.87	0.98	1
Section Number	001	001	001	001
Photo Number	1496	1497	1499	1500
Deficiency	Drainage	Drainage	Drainage	Drainage
Action	Repair	Build/Add	Build/Add	Build/Add
Item	Tread -sf	Puncheon -lf	Puncheon -lf	Turnpike -lf
Quantity	15	20	10	100
Deferred Maintenance	\$85	\$273	\$161	\$5383

TRAIL DEFICIENCY



Trail Name:	Stroebeel Woodland Nature Trail		Refuge Name: Shiawassee NWR	
Trail Number:	T301		Region: 3	TOTAL LENGTH: 5.02 Miles
Mile Post	1.08	1.21	1.35	1.38
Section Number	001	001	001	001
Photo Number	1501	1502	1503	1504
Deficiency	Drainage	Drainage	Drainage	Drainage
Action	Build/Add	Build/Add	Build/Add	Build/Add
Item	Turnpike -lf	Drainage Ditch -lf	Puncheon -lf	Puncheon -lf
Quantity	150	17	7	10
Deferred Maintenance	\$8050	\$126	\$127	\$161

TRAIL DEFICIENCY



Trail Name: Stroebel Woodland Nature Trail

Refuge Name: Shiawassee NWR

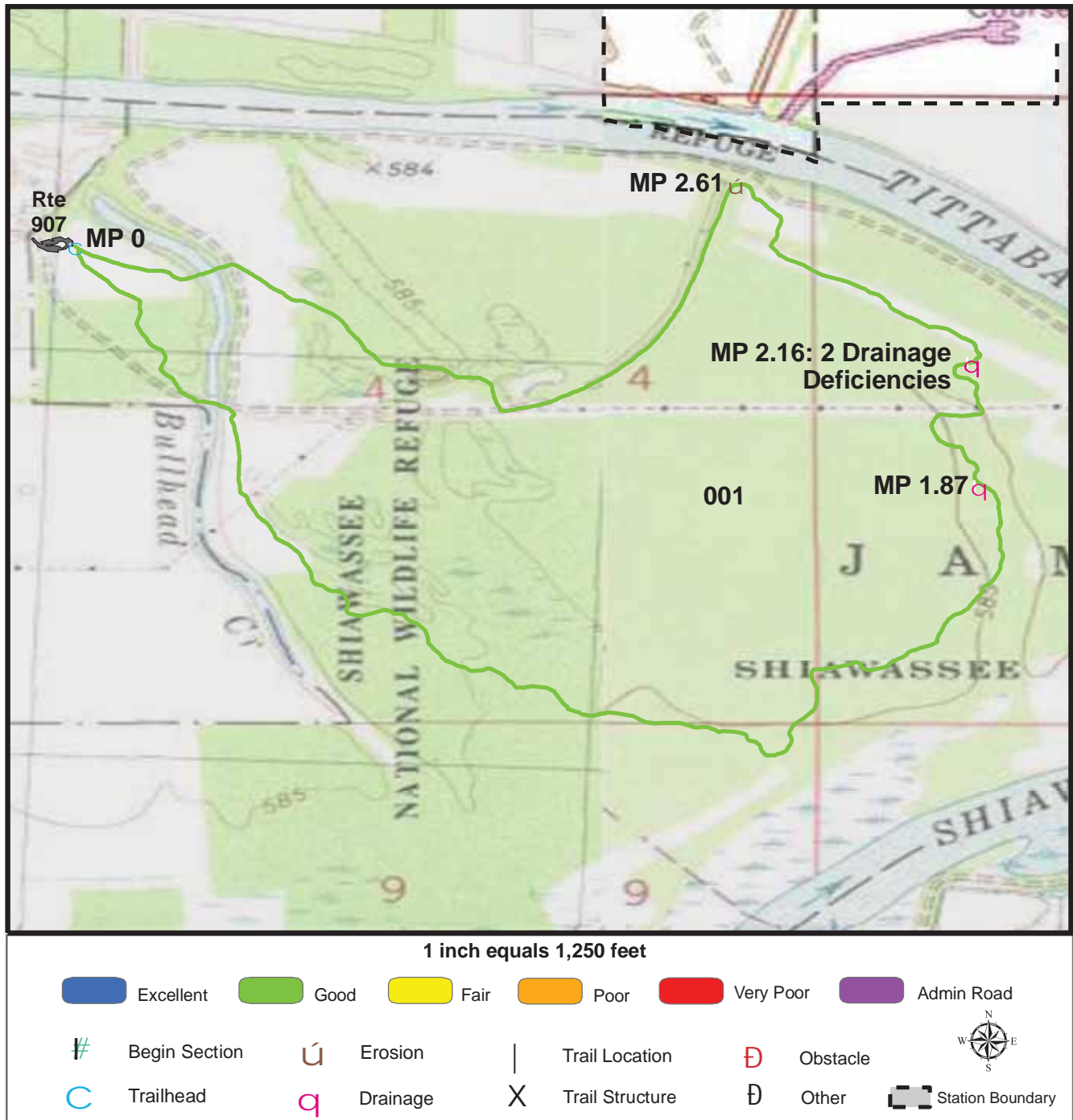
Trail Number: T301

Region: 3

TOTAL LENGTH: 5.02 Miles

Mile Post	1.48	1.64	1.64	1.87
Section Number	001	001	001	001
Photo Number	1505	1506	1506	1507
Deficiency	Drainage	Drainage	Drainage	Drainage
Action	Build/Add	Build/Add	Repair	Build/Add
Item	Turnpike -lf	Puncheon -lf	Tread -sf	Turnpike -lf
Quantity	40	20	190	10
Deferred Maintenance	\$2183	\$273	\$511	\$582

TRAIL DEFICIENCY



Trail Name: Stroebel Woodland Nature Trail

Refuge Name: Shiawassee NWR

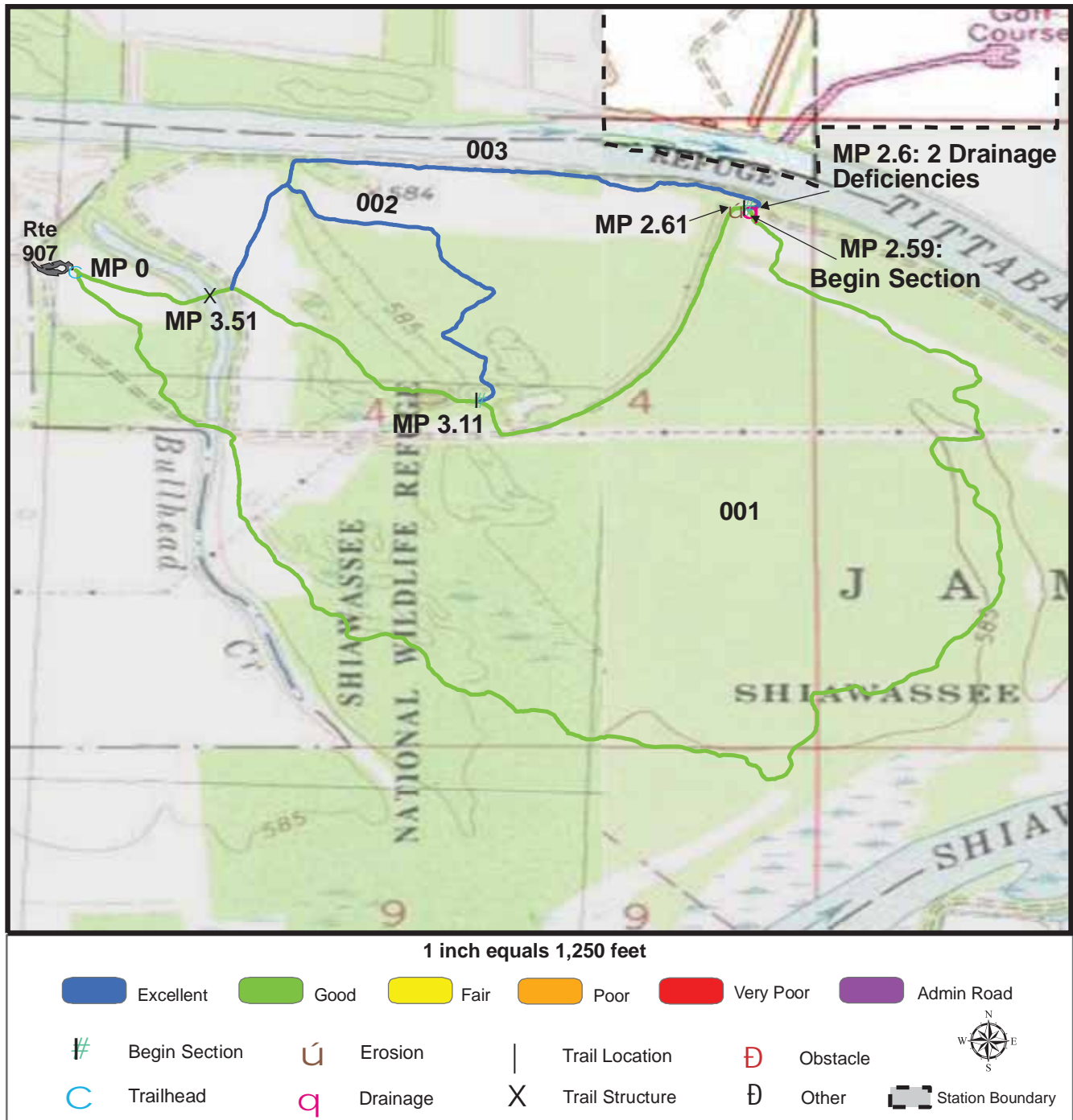
Trail Number: T301

Region: 3

TOTAL LENGTH: 5.02 Miles

Mile Post	1.87	2.16	2.16	2.61
Section Number	001	001	001	001
Photo Number	1507	1508	1508	1510
Deficiency	Drainage	Drainage	Drainage	Erosion
Action	Repair	Build/Add	Repair	Build/Add
Item	Tread -sf	Puncheon -lf	Turnpike -lf	Water Bar:Wood -each
Quantity	60	6	24	4
Deferred Maintenance	\$195	\$116	\$689	\$452

TRAIL DEFICIENCY



Trail Name: Stroebeel Woodland Nature Trail

Refuge Name: Shiawassee NWR

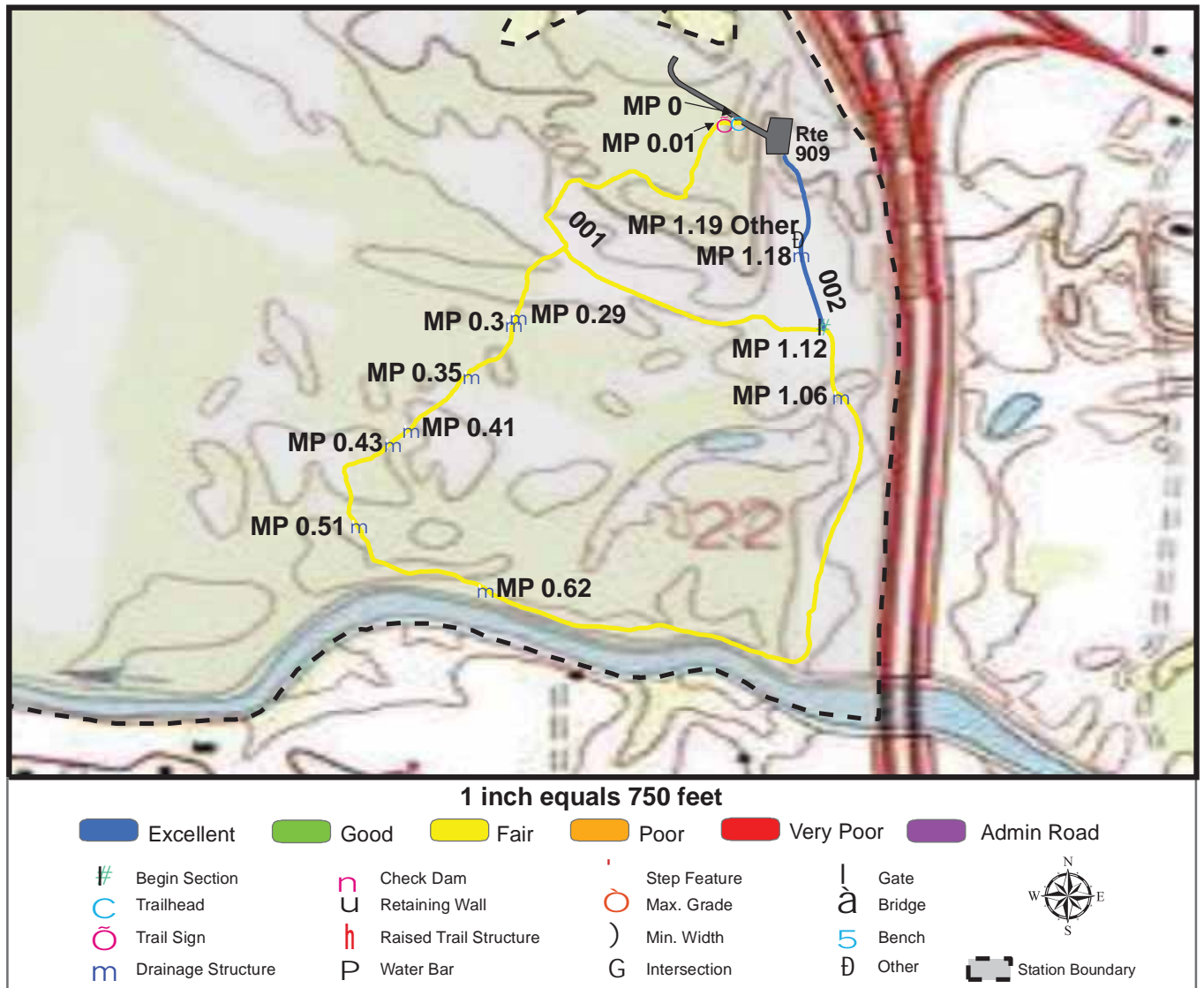
Trail Number: T301

Region: 3

TOTAL LENGTH: 5.02 Miles

Mile Post	2.61	3.51	2.6	2.6
Section Number	001	001	003	003
Photo Number	1510	1516	1514	1514
Deficiency	Erosion	Trail Structure	Drainage	Drainage
Action	Repair	Repair	Build/Add	Build/Add
Item	Tread -sf	Bridge -sf	Puncheon -lf	Tread -sf
Quantity	400	6	10	20
Deferred Maintenance	\$1023	\$238	\$161	\$146

TRAIL CONDITION



Trail Name: Cass River Nature Trail

Refuge Name: Shiawassee NWR

Trail Number: T302

Region: 3

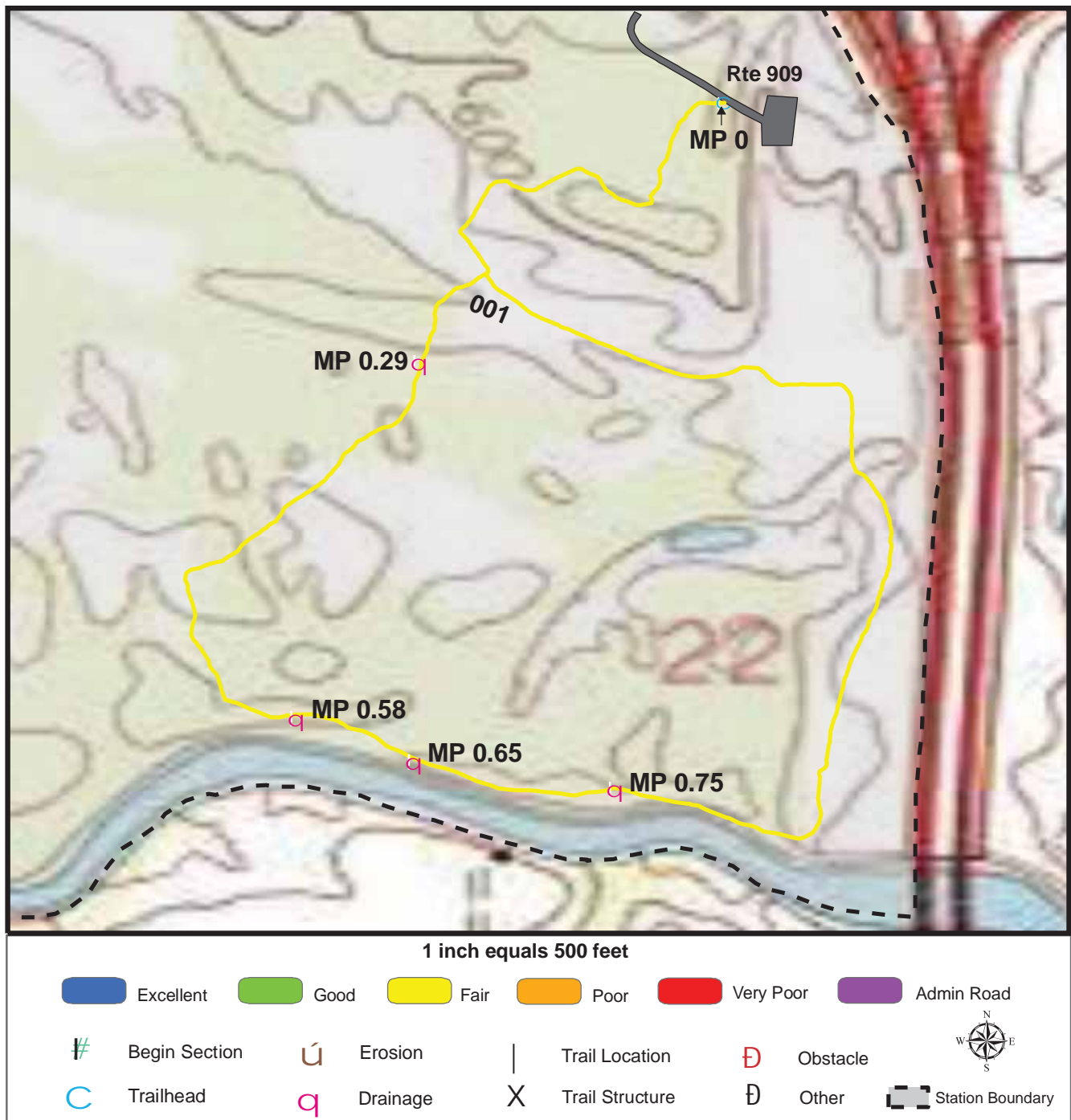
TOTAL LENGTH: 1.47 Miles

Section Number	001	002			
Section Length (miles)	1.32	0.15			
SAMMS Number	10055674	10055674			
Rating Date	8/17/2006	8/17/2006			
Trail Section Information					
Trail Class	TC3	TC4			
Surface Type	Native	Native			
Surface Firmness	Firm	Firm			
Width (inches)	78	108			
Average Grade (%)	5.9	5.9			
Average X-slope (%)	4.8	4.8			
Trail Condition Information					
Deferred Maintenance	\$14600	\$0			
CRV	\$234271	\$36881			
FCI	0.063	0			
Condition	Fair	Excellent			

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
\$14600	\$271153	0.054	Fair

TRAIL DEFICIENCY



Trail Name: Cass River Nature Trail

Refuge Name: Shiawassee NWR

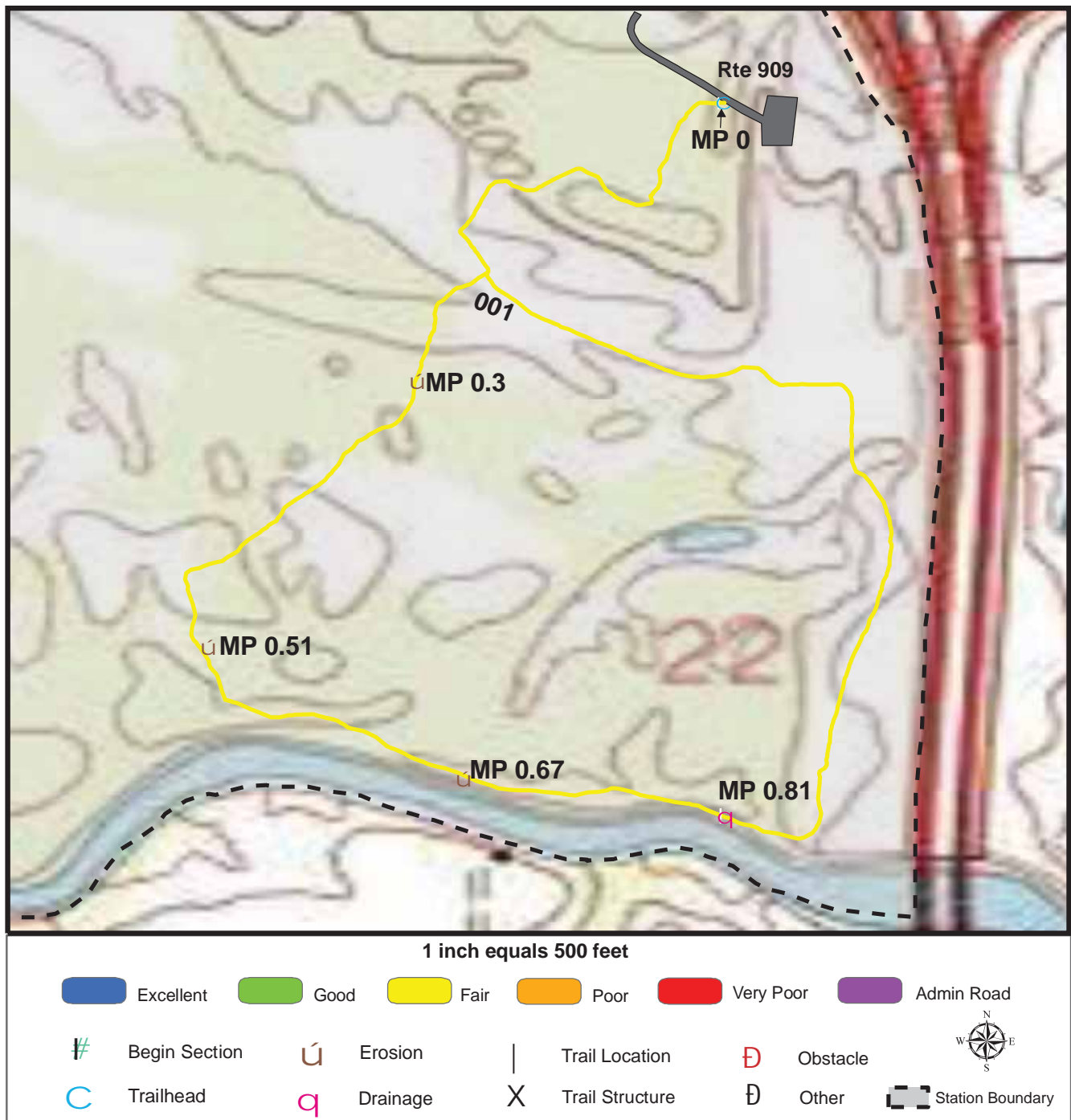
Trail Number: T302

Region: 3

TOTAL LENGTH: 1.47 Miles

Mile Post	0.29	0.58	0.65	0.75
Section Number	001	001	001	001
Photo Number	1536	1539	1540	1543
Deficiency	Drainage	Drainage	Drainage	Drainage
Action	Build/Add	Build/Add	Build/Add	Build/Add
Item	Culvert -lf	Turnpike -lf	Culvert -lf	Culvert -lf
Quantity	12	20	12	12
Deferred Maintenance	\$1405	\$1116	\$1405	\$1405

TRAIL DEFICIENCY



Trail Name: Cass River Nature Trail

Refuge Name: Shiawassee NWR

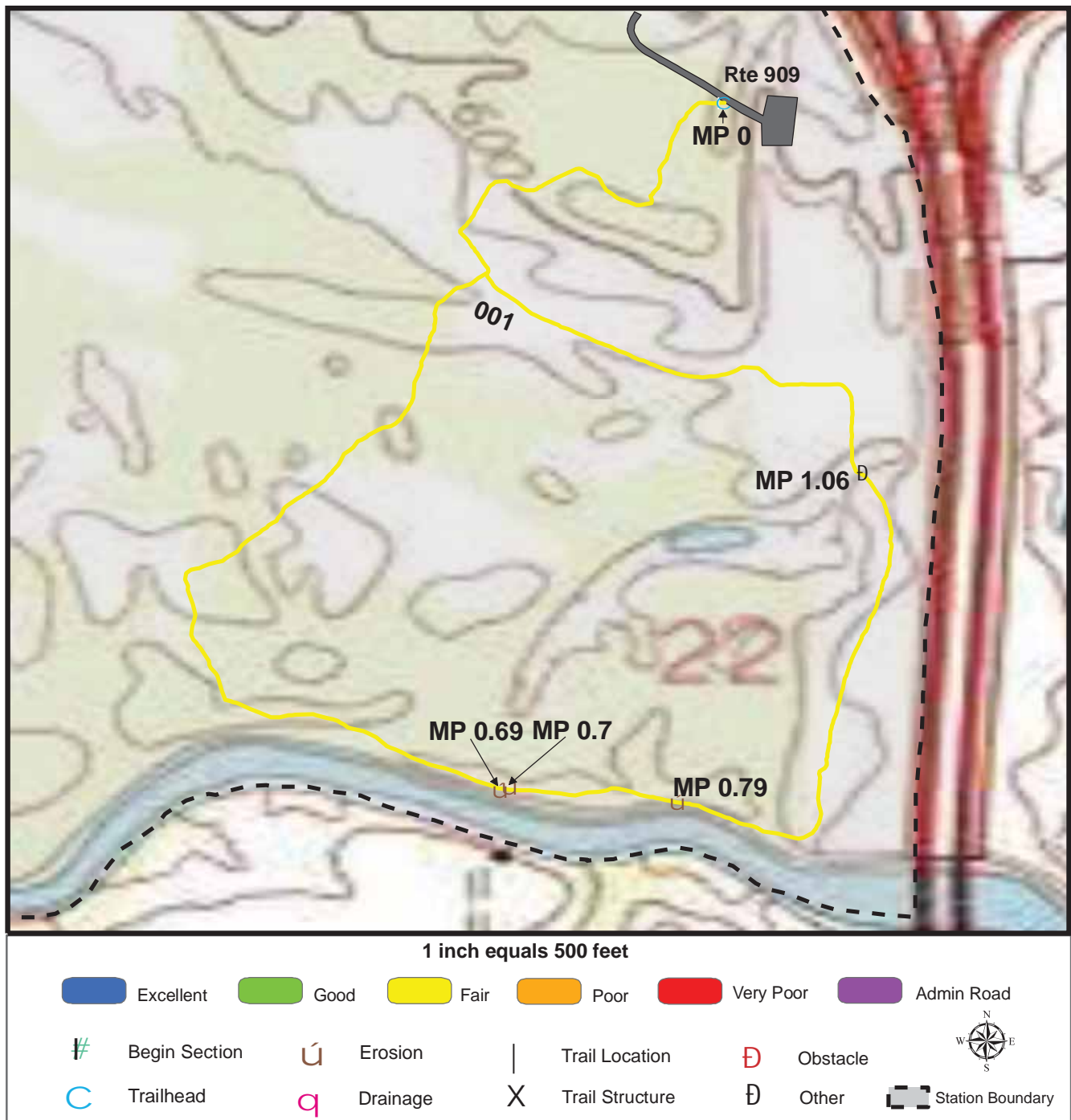
Trail Number: T302

Region: 3

TOTAL LENGTH: 1.47 Miles

Mile Post	0.81	0.3	0.51	0.67
Section Number	001	001	001	001
Photo Number	1545	1537	1538	1541
Deficiency	Drainage	Erosion	Erosion	Erosion
Action	Build/Add	Build/Add	Repair	Build/Add
Item	Culvert -lf	Culvert -lf	Culvert -lf	Culvert -lf
Quantity	12	12	24	10
Deferred Maintenance	\$1405	\$1405	\$1257	\$1179

TRAIL DEFICIENCY



Trail Name: Cass River Nature Trail

Refuge Name: Shiawassee NWR

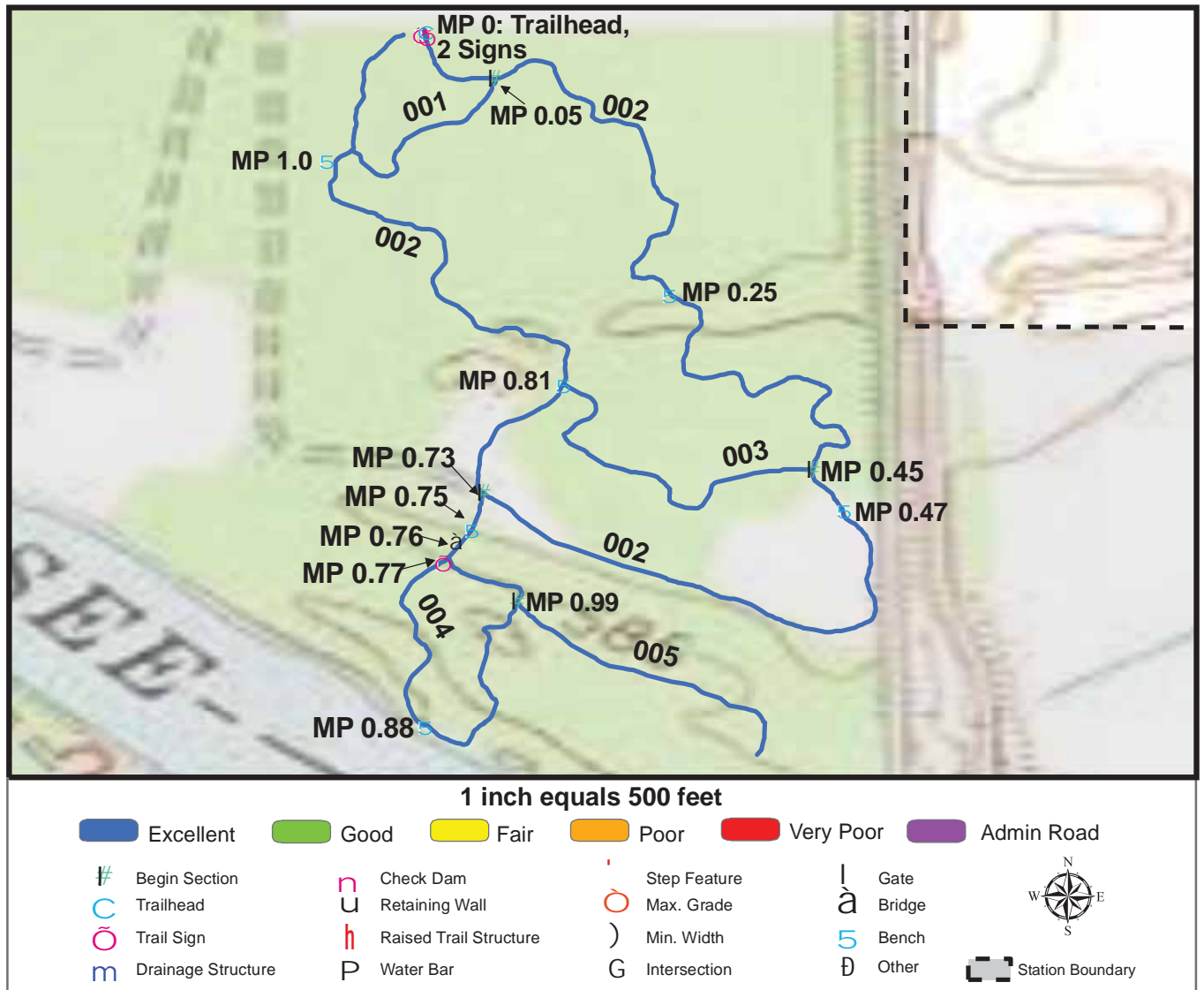
Trail Number: T302

Region: 3

TOTAL LENGTH: 1.47 Miles

Mile Post	0.69	0.7	0.79	1.06
Section Number	001	001	001	001
Photo Number	1542	1542	1544	1546
Deficiency	Erosion	Erosion	Erosion	Other
Action	Build/Add	Repair	Build/Add	Repair
Item	Culvert -lf	Tread -sf	Culvert -lf	Tread -sf
Quantity	10	10	24	1
Deferred Maintenance	\$1179	\$73	\$2761	\$51

TRAIL CONDITION



Trail Name: Green Point Nature Trail

Refuge Name: Shiawassee NWR

Trail Number: T400

Region: 3

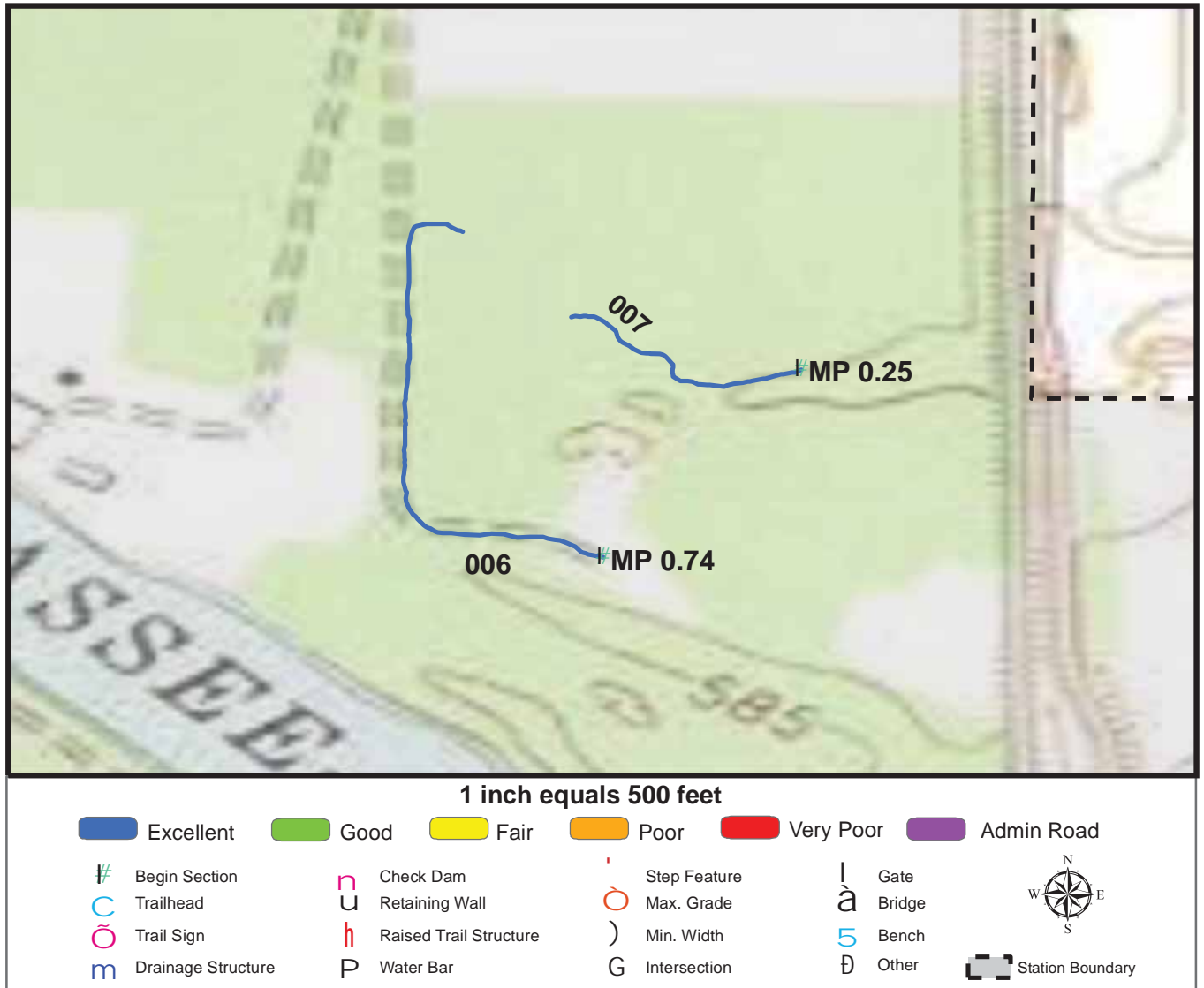
TOTAL LENGTH: 2.19 Miles

Section Number	001	002	003	004	005
Section Length (miles)	0.15	1.03	0.17	0.31	0.14
SAMMS Number	10036103	10036103	10036103	10036103	10036103
Rating Date	8/16/2006	8/16/2006	8/16/2006	8/16/2006	8/16/2006
Trail Section Information					
Trail Class	TC4	TC3	TC3	TC3	TC2
Surface Type	Wood Chip	Native	Native	Native	Native
Surface Firmness	Soft	Hard	Hard	Hard	Hard
Width (inches)	60	48	48	60	48
Average Grade (%)	1.1	1.1	1.1	1.1	1.1
Average X-slope (%)	1.8	1.8	1.8	1.8	1.8
Trail Condition Information					
Deferred Maintenance	\$0	\$0	\$0	\$0	\$0
CRV	\$9630	\$105472	\$17744	\$72665	\$14870
FCI	0	0	0	0	0
Condition	Excellent	Excellent	Excellent	Excellent	Excellent

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
\$0	\$274427	0	Excellent

TRAIL CONDITION



Trail Name: Green Point Nature Trail

Refuge Name: Shiawassee NWR

Trail Number: T400

Region: 3

TOTAL LENGTH: 2.19 Miles

Section Number	006	007			
Section Length (miles)	0.27	0.12			
SAMMS Number	10036103	10036103			
Rating Date	8/16/2006	8/16/2006			
Trail Section Information					
Trail Class	TC3	TC3			
Surface Type	Gravel	Gravel			
Surface Firmness	Hard	Hard			
Width (inches)	60	60			
Average Grade (%)	1.1	1.1			
Average X-slope (%)	1.8	1.8			
Trail Condition Information					
Deferred Maintenance	\$0	\$0			
CRV	\$37758	\$16286			
FCI	0	0			
Condition	Excellent	Excellent			

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
\$0	\$274427	0	Excellent

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T300**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1429 - MP 0.0 - Trailhead

TRAIL NUMBER: **T300**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1426 - MP 0.0 - Sign

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T300**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1427, 1428 - MP 0.0 - Sign (Grouped Feature)

TRAIL NUMBER: **T300**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1431 - MP 0.22 - Sign, Sign (Grouped Feature)

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T300**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1432 - MP 0.22 - Begin Section 002

TRAIL NUMBER: **T300**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1434 - MP 0.69 - Begin Section 003

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T300**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1433 - MP 0.7 - Sign

TRAIL NUMBER: **T300**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1435 - MP 0.74 - Begin Section 004

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T300

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1438 - MP 0.79 - Sign

TRAIL NUMBER: T300

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1439 - MP 0.94 - Sign

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T300**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1440 - MP 0.94 - Begin Section 006

TRAIL NUMBER: **T300**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1442 - MP 0.94 - Begin Section 007

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T300**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1436 - MP 1.1 - Begin Section 005

TRAIL NUMBER: **T300**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1437 - MP 1.16 - Sign

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T300**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1450 - MP 1.41 - Sign

TRAIL NUMBER: **T300**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1454 - MP 1.94 - Sign

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T300**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1455 - MP 1.94 - Sign

TRAIL NUMBER: **T300**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1456 - MP 2.19 - Bridge

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T300**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1457 - MP 2.25 - Erosion Deficiency

TRAIL NUMBER: **T300**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1458, 1459 - MP 2.49 - Sign

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T300**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1470 - MP 2.49 - Begin Section 008

TRAIL NUMBER: **T300**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1473 - MP 3.55 - Begin Section 009

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T300**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1474 - MP 3.61 - Erosion Deficiency

TRAIL NUMBER: **T300**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1475 - MP 3.65 - Erosion Deficiency

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T301**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1482 - MP 0.0 - Trailhead

TRAIL NUMBER: **T301**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1480, 1481 - MP 0.0 - Sign

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T301**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1517 - MP 0.01 - Sign

TRAIL NUMBER: **T301**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1483 - MP 0.06 - Drainage Deficiency

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T301**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1484 - MP 0.18 - Drainage Deficiency

TRAIL NUMBER: **T301**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1485, 1486 - MP 0.22 - Drainage Deficiency

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T301**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1487, 1488 - MP 0.23 - Drainage Deficiency

TRAIL NUMBER: **T301**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1489 - MP 0.3 - Drainage Deficiency

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T301**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1490 - MP 0.52 - Drainage Deficiency

TRAIL NUMBER: **T301**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1491 - MP 0.63 - Drainage Deficiency

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T301**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1492 - MP 0.67 - Drainage Deficiency

TRAIL NUMBER: **T301**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1493 - MP 0.71 - Drainage Deficiency

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T301**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1494 - MP 0.78 - Drainage Deficiency

TRAIL NUMBER: **T301**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1495 - MP 0.8 - Drainage Deficiency

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T301**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1496 - MP 0.85 - Drainage Deficiency

TRAIL NUMBER: **T301**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1497 - MP 0.87 - Drainage Deficiency

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T301**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1498 - MP 0.96 - Bridge

TRAIL NUMBER: **T301**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1499 - MP 0.98 - Drainage Deficiency

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T301**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1500 - MP 1 - Drainage Deficiency

TRAIL NUMBER: **T301**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1501 - MP 1.08 - Drainage Deficiency

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T301**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1502 - MP 1.21 - Drainage Deficiency

TRAIL NUMBER: **T301**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1503 - MP 1.35 - Drainage Deficiency

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T301**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1504 - MP 1.38 - Drainage Deficiency

TRAIL NUMBER: **T301**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1505 - MP 1.48 - Drainage Deficiency

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T301**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1506 - MP 1.64 - Drainage Deficiency

TRAIL NUMBER: **T301**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1507 - MP 1.87 - Drainage Deficiency

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T301**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1508 - MP 2.16 - Drainage Deficiency

TRAIL NUMBER: **T301**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1509 - MP 2.59 - Sign (Grouped Feature)

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T301**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1513 - MP 2.59 - Begin Section 003

TRAIL NUMBER: **T301**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1514 - MP 2.6 - Drainage Deficiency

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T301**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1510 - MP 2.61 - Erosion Deficiency

TRAIL NUMBER: **T301**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1512 - MP 3.11 - Begin Section 002

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T301**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1511 - MP 3.48 - Sign

TRAIL NUMBER: **T301**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1516 - MP 3.51 - Trail Structure Deficiency

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T301**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1515 - MP 3.52 - Bridge

TRAIL NUMBER: **T302**

STATION: Shiawassee NWR

DATE: 8/17/2006



Photo # 1531 - MP 0.0 - Trailhead

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T302**

STATION: Shiawassee NWR

DATE: 8/17/2006



Photo # 1532-3 - MP 0.01 - Sign (Grouped Feature)

TRAIL NUMBER: **T302**

STATION: Shiawassee NWR

DATE: 8/17/2006



Photo # 1536 - MP 0.29 - Drainage Deficiency

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T302**

STATION: Shiawassee NWR

DATE: 8/17/2006



Photo # 1537 - MP 0.3 - Erosion Deficiency

TRAIL NUMBER: **T302**

STATION: Shiawassee NWR

DATE: 8/17/2006



Photo # 1538 - MP 0.51 - Erosion Deficiency

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T302**

STATION: Shiawassee NWR

DATE: 8/17/2006



Photo # 1539 - MP 0.58 - Drainage Deficiency

TRAIL NUMBER: **T302**

STATION: Shiawassee NWR

DATE: 8/17/2006



Photo # 1540 - MP 0.65 - Drainage Deficiency

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T302**

STATION: Shiawassee NWR

DATE: 8/17/2006



Photo # 1541 - MP 0.67 - Erosion Deficiency

TRAIL NUMBER: **T302**

STATION: Shiawassee NWR

DATE: 8/17/2006



Photo # 1542 - MP 0.69 - Erosion Deficiency

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T302**

STATION: Shiawassee NWR

DATE: 8/17/2006



Photo # 1543 - MP 0.75 - Drainage Deficiency

TRAIL NUMBER: **T302**

STATION: Shiawassee NWR

DATE: 8/17/2006



Photo # 1544 - MP 0.79 - Erosion Deficiency

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T302**

STATION: Shiawassee NWR

DATE: 8/17/2006



Photo # 1545 - MP 0.81 - Drainage Deficiency

TRAIL NUMBER: **T302**

STATION: Shiawassee NWR

DATE: 8/17/2006



Photo # 1546 - MP 1.06 - Other Deficiency

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T302**

STATION: Shiawassee NWR

DATE: 8/17/2006



Photo # 1547 - MP 1.12 - Begin Section 002

TRAIL NUMBER: **T400**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1522 - MP 0.0 - Trailhead

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T400**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1520 - MP 0.0 - Sign

TRAIL NUMBER: **T400**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1521 - MP 0.0 - Sign (Grouped Feature)

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T400**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1523 - MP 0.05 - Begin Section 002

TRAIL NUMBER: **T400**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1530 - MP 0.25 - Begin Section 007

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T400**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1524 - MP 0.45 - Begin Section 003

TRAIL NUMBER: **T400**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1525 - MP 0.73 - Begin Section 004

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T400**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1529 - MP 0.74 - Begin Section 006

TRAIL NUMBER: **T400**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1526 - MP 0.76 - Bridge

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T400**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1527 - MP 0.77 - Sign

TRAIL NUMBER: **T400**

STATION: Shiawassee NWR

DATE: 8/16/2006



Photo # 1528 - MP 0.99 - Begin Section 005

APPENDIX

Glossary of Terms and Abbreviations

Acc Info	Accessibility information available at trailhead.
Action	Action required to correct deficiency.
Admin Road	Administration Road. Admin Roads signed and advertised as trails are included in the trail inventory but a condition assessment is NOT done.
Alt SAMMS	Asset number of Alternate Facility Type.
Alt Type	Alternate Facility Type. Trail lies on a feature such as a levee, dam, administrative road or bridge, which has a separate SAMMS number.
AvgGrade	The average grade of the trail (%). The average of five measurements for trails less than two miles and ten measurements for trails equal to or greater than 2 miles.
AvgSlope	The average cross-slope of the trail (%). The average of five measurements for trails less than two miles and ten measurements for trails equal to or greater than 2 miles.
Check Dam	A small dam constructed across a drainage ditch, swale, or channel to lower the speed of concentrated flows.
Condition	Subjective rating of trail based on Facility Condition Index (FCI): FCI \leq .01 = Excellent FCI .011 - .05 = Good FCI .051 - .10 = Fair FCI .11 - .20 = Poor FCI $>$.20 = Very Poor
Crib Wall	Retaining wall.
Current Replacement Value (CRV)	The value of an asset determined by the estimated cost of replacing it.
Def type	Deficiency Type: Trail Structure, Drainage, Erosion, Obstacle, Trail Location, Other.

Deferred Maintenance (DM)	Maintenance that was not performed when scheduled.
Elem ID	Unique identifier for each trail section: Org Code-Trail Number-Section Number.
Facility Condition Index (FCI)	DM/CRV
Grouped Features	Grouped features include non-unique signs (mileposts, interpretive signs, species identification, etc.), water bars, check dams, steps, drain and drainage dips. For any given grouped feature, a GPS point and photo are taken for the first occurrence only and the total number of features in the group are entered into the “quantity” field of the data dictionary. CRV for grouped features are included in whatever trail section the GPS point was taken.
Info Type	Type of accessibility information available at trailhead: brochure, sign or other.
Item	Item on which the “Action” (see above) will be performed.
Manage_Use	Managed use of the trail: HIKE, BIKE, NSPC (non-specified), PACK, POR (portage), SNOWSHOE, XSKI (cross-country ski), OTHER.
Max Grade	Maximum grade (in percent) of trail. Only collected for Trail Classes 4 and 5 and when > 10%.
Min Width	Minimum Width (inches) of trail. Only collected for Trail Classes 4 and 5.
MP (Milepost)	Distance, in miles, of a trail feature or deficiency from the Trailhead.
Puncheon	Log footbridge used in area of poor drainage.
Raised Trail Structure	Boardwalk, Turnpike, Puncheon.
SAMMS No	Asset Number

Station Boundary	Approved Acquisition Boundary files downloaded from FWS website.
T Class	Trail Class: TC1-5 (see Trail Classification System for descriptions).
Tr Desig	Trail Designation: Standard (Std), National Historic Trail (NHT), National Recreation Trail (NRT), National Scenic Trail (NST).
Trail No	Trails are numbered based on Trail Class at the trailhead. TC 1 = T100 series, TC2 = T200 series, etc.
Turnpike	Trail tread elevated with dirt, rock or other aggregate from parallel side ditches and held in place by logs.



Trail Classification

Note: Trail Class descriptions define “typical” attributes, and exceptions may occur for any attribute.

Trail Attributes	Trail Class 1 Minimal/Undeveloped Trail	Trail Class 2 Simple/Minor Development Trail	Trail Class 3 Developed/Improved Trail	Trail Class 4 Highly Developed Trail	Trail Class 5 Fully Developed Trail
General Criteria					
Physical Characteristics to be Applied to All National Forest System Trails					
Tread & Traffic Flow	<ul style="list-style-type: none"> •Tread intermittent and often indistinct •May require route finding •Native materials only 	<ul style="list-style-type: none"> •Tread discernible and continuous, but narrow and rough •Few or no allowances constructed for passing •Native materials 	<ul style="list-style-type: none"> •Tread obvious and continuous •Width accommodates unhindered one-lane travel (occasional allowances constructed for passing) •Typically native materials 	<ul style="list-style-type: none"> •Tread wide and relatively smooth with few irregularities •Width may consistently accommodate two-lane travel •Native or imported materials •May be hardened 	<ul style="list-style-type: none"> •Width generally accommodates two-lane and two-directional travel, or provides frequent passing turnouts •Commonly hardened with asphalt or other imported material
Obstacles	<ul style="list-style-type: none"> •Obstacles common •Narrow passages; brush, steep grades, rocks and logs present 	<ul style="list-style-type: none"> •Obstacles occasionally present •Blockages cleared to define route and protect resources •Vegetation may encroach into trailway 	<ul style="list-style-type: none"> •Obstacles infrequent •Vegetation cleared outside of trailway 	<ul style="list-style-type: none"> •Few or no obstacles exist •Grades typically <12% •Vegetation cleared outside of trailway 	<ul style="list-style-type: none"> •No obstacles •Grades typically <8%
Constructed Features & Trail Elements	<ul style="list-style-type: none"> •Minimal to non-existent •Drainage is functional •No constructed bridges or foot crossings 	<ul style="list-style-type: none"> •Structures are of limited size, scale, and number •Drainage functional •Structures adequate to protect trail infrastructure and resources •Primitive foot crossings and fords 	<ul style="list-style-type: none"> •Trail structures (walls, steps, drainage, raised trail) may be common and substantial •Trail bridges as needed for resource protection and appropriate access •Generally native materials used in Wilderness 	<ul style="list-style-type: none"> •Structures frequent and substantial •Substantial trail bridges are appropriate at water crossings •Trailside amenities may be present 	<ul style="list-style-type: none"> •Structures frequent or continuous; may include curbs, handrails, trailside amenities, and boardwalks •Drainage structures frequent; may include culverts and road-like designs
Signs	<ul style="list-style-type: none"> •Minimum required •Generally limited to regulation and resource protection •No destination signs present 	<ul style="list-style-type: none"> •Minimum required for basic direction •Generally limited to regulation and resource protection •Typically very few or no destination signs present 	<ul style="list-style-type: none"> •Regulation, resource protection, user reassurance •Directional signs at junctions, or when confusion is likely •Destination signs typically present •Informational and interpretive signs may be present outside of Wilderness 	<ul style="list-style-type: none"> •Wide variety of signs likely present •Informational signs likely (outside of Wilderness) •Interpretive signs possible (outside of Wilderness) •Trail Universal Access information likely displayed at trailhead 	<ul style="list-style-type: none"> •Wide variety of signage is present •Information and interpretive signs likely •Trail Universal Access information is typically displayed at trailhead •
Typical Recreation Environments & Experience²	<ul style="list-style-type: none"> •Natural, unmodified •ROS: Often Primitive setting, but may occur in other ROS settings •WROS: Primitive 	<ul style="list-style-type: none"> •Natural, essentially unmodified •ROS: Typically Semi-Primitive setting •WROS: Primitive to Semi-Primitive 	<ul style="list-style-type: none"> •Natural, primarily unmodified •ROS: Typically Semi-Primitive to Roaded Natural setting •WROS: Semi-Primitive to Transition 	<ul style="list-style-type: none"> •May be modified •ROS: Typically Roaded Natural to Rural setting •WROS: Transition (rarely present in Wilderness) 	<ul style="list-style-type: none"> •Can be highly modified •ROS: Typically Rural to Urban setting •Commonly associated with Visitor Centers or high-use recreation sites •Not present in Wilderness