



national park service

**The Road Inventory
of
Mojave National Preserve
MOJA – 8380
Cycle 4**



**Prepared By:
Federal Highway Administration
Road Inventory Program
Cycle 4**



Mojave National Preserve in California

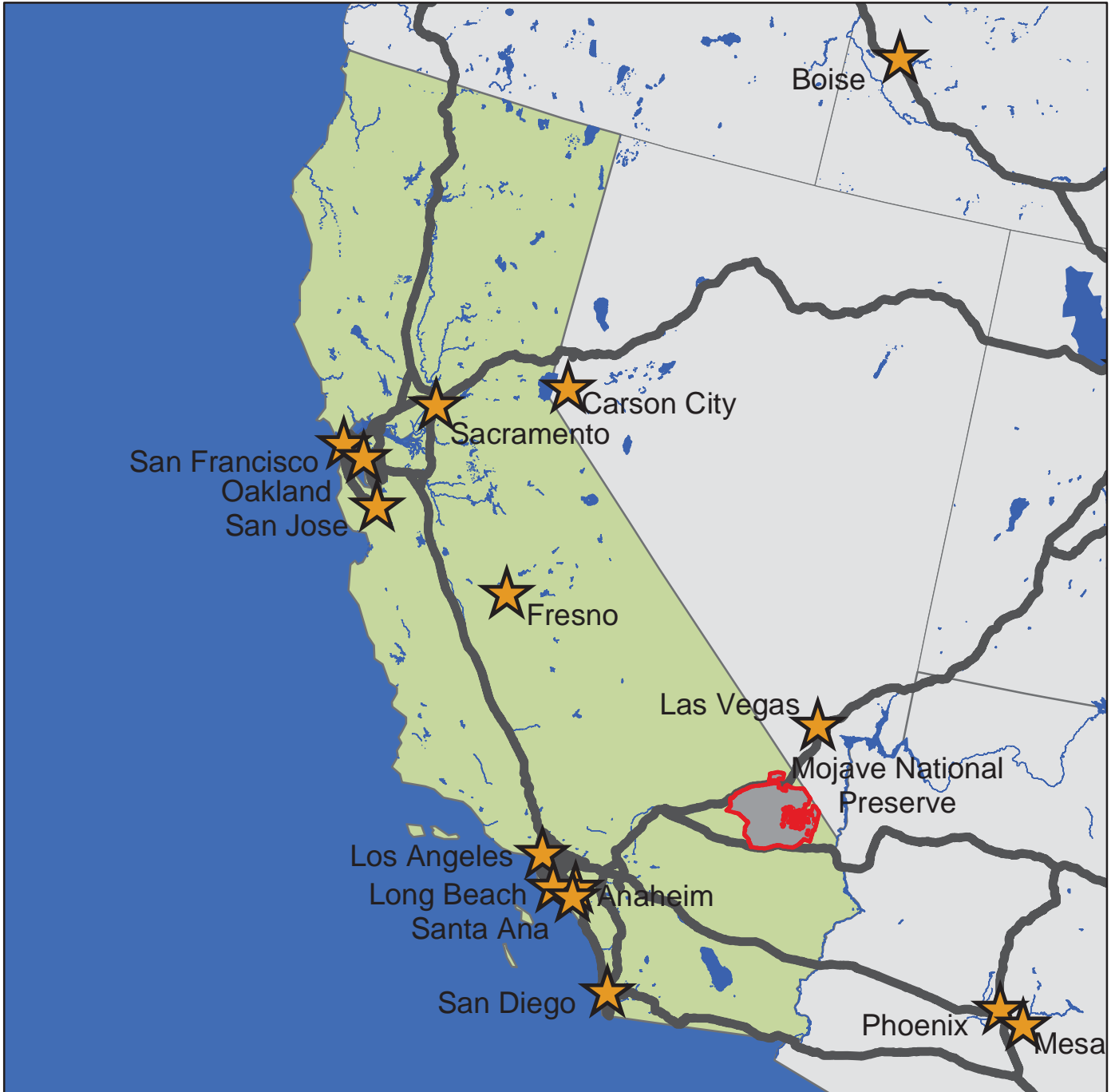




TABLE OF CONTENTS

	<u>SECTION</u>	<u>PAGE</u>
1.	INTRODUCTION	1 - 1
2.	PARK SUMMARY INFORMATION	
	Paved Route Miles and Percentages by Functional Class and PCR	2 - 1
	ARAN Road Condition Summary	2 - 2
	Parkwide Condition Summary	2 - 4
3.	PARK ROUTE LOCATION / CONDITION MAPS	
	Route Location Key Map	3 - 1
	Route Location Area Map	3 - 2
	Route Condition Key Map – PCR Mile by Mile	3 - 3
	Route Condition Area Map – PCR Mile by Mile	3 - 4
4.	PARK ROUTE INVENTORY	
	Route Identification Report	4 - 1
5.	PAVED ROUTE CONDITION RATING SHEETS (CRS)	
	CRS Pages	5 - 1
6.	MANUALLY RATED PAVED ROUTE CONDITION RATING SHEETS (MRR)	
	MRR Pages	6 - 1
7.	PARKING AREA CONDITION RATING SHEETS	
	Paved Parking Area Pages	7 - 1
8.	PARKWIDE / ROUTE MAINTENANCE FEATURES SUMMARIES	
	Parkwide Maintenance Features Summary	8 - 1
	Route Maintenance Features Summary	8 - 2
	Structure List	8 - 4
9.	PARK ROUTE MAINTENANCE FEATURES ROAD LOGS	
	Route Maintenance Features Road Logs	9 - 1
10.	APPENDIX	
	A. Glossary of Terms and Abbreviations	10 - 1
	B. Description of Rating System	10 - 2
	C. General Information on RIP Systems	10 - 8
	D. Metadata	10 - 11

Mojave National Preserve



Section 1 **Introduction**

INTRODUCTION

Background: In 1976, the National Park Service (NPS) and the Federal Highway Administration (FHWA) entered into a Memorandum of Agreement (MOA), establishing the Road Inventory Program (RIP). In 1980, the NPS and the FHWA terminated the 1976 MOA and entered into a new MOA that provided for the completion of the initial phase of the RIP. The purpose of the RIP, per the 1980 MOA was to maintain and update RIP data in order to develop long-range costs and programs to bring National Park Service (NPS) roads up to, or to maintain, designated standards, and establish a maintenance management program.

The FHWA's Federal Lands Highway (FLH) was assigned the task of identifying condition deficiencies and corrective priorities along with associated corrective costs, inventorying maintenance features (e.g., culverts, signs, guardrail, etc.), summarizing the data and findings in a report and providing a photographic record of the road system.

The FLH completed the initial phase of the RIP in the early 1980's. As a result of this effort, each park received a RIP book, also known as the "Brown Book," that included the information collected during this initial RIP phase.

In an effort to maintain and update the RIP data, a cyclical data collection and reporting process was reestablished in the 1990's. The FLH completed two cycles of RIP data collection between 1994 and 2001. Cycle 1 was collected in 44 large parks from 1994 to 1996. This data was found to be unusable for comparison to future cycles. Cycle 2 data was collected from March 1997 to January 2001 in 79 large parks and 5 small parks containing 4,874 route miles. Each park received a copy of a Cycle 2 RIP Report, also known as the "Blue Book". Cycle 3 was completed from 2001 through 2004, and included data collection in all parks that contain pavement.

Since 1984, the RIP Program has been funded through the Federal Lands Highway Program's Park Roads and Parkways (PRP) Program. Currently, the NPS Washington Headquarters' Park Facility Management Division is responsible for coordinating the RIP program with the FLH. The FLH Washington office coordinates policy and prepares national reports and needs assessment studies for congress.

In 1998, the Transportation Equity Act for the 21st Century (TEA-21) amended Title 23 U.S.C., and inserted Section 204(a)(6) which requires the Federal Highway Administration and the National Park Service, to develop, by rule, a Pavement Management System (PMS) for the park roads and parkways serving the National Park System. As a result of the requirements in TEA-21, the NPS and FHWA are in the process of developing a PMS. The PMS will assist the decision-makers in effectively spending limited PRP Program funds. The PMS

will provide information for planning and programming road maintenance, rehabilitation, and reconstruction activities. RIP data will provide the basic information for this system.

Key information included in the RIP is the mileage inventory and condition assessments accomplished by the RIP Program. The mileage and condition data are used in the current allocation formula of PRP Program funds.

RIP Cycle 4: Cycle 4 data collection was initiated in spring 2006, where 86 large parks, consisting of 5,553 route miles and 6,232 paved parking areas, were selected as a representative sample of the entire NPS paved road network. Cycle 4 is scheduled for completion in spring 2009 and will serve the PMS in further development of its pavement preservation techniques.

In the Cycle 4 Reports, a general condition rating of excellent, good, fair and poor is ascribed to each one-mile section of paved roadway, and to each paved parking area. This condition rating system provides a realistic means of assessing the general funding needs for road improvements. Along with these descriptive condition ratings, a numerical rating between 0 and 100 is ascribed to each mile of road and to each parking area. This numerical rating is called a Pavement Condition Rating (PCR). The PCR rating system is described in Section 10 of this report.

All of the fieldwork required for obtaining inventory, condition, and maintenance feature information is coordinated with each park and the regional offices to ensure that the information in the RIP reports is accurate.

The FLH is responsible for all the data presented in this report. Anyone having questions or comments regarding the contents of this report is encouraged to contact the FHWA RIP Coordinator. It is our aim to provide exceptional customer satisfaction in our delivery of the RIP program.

The FHWA RIP Team

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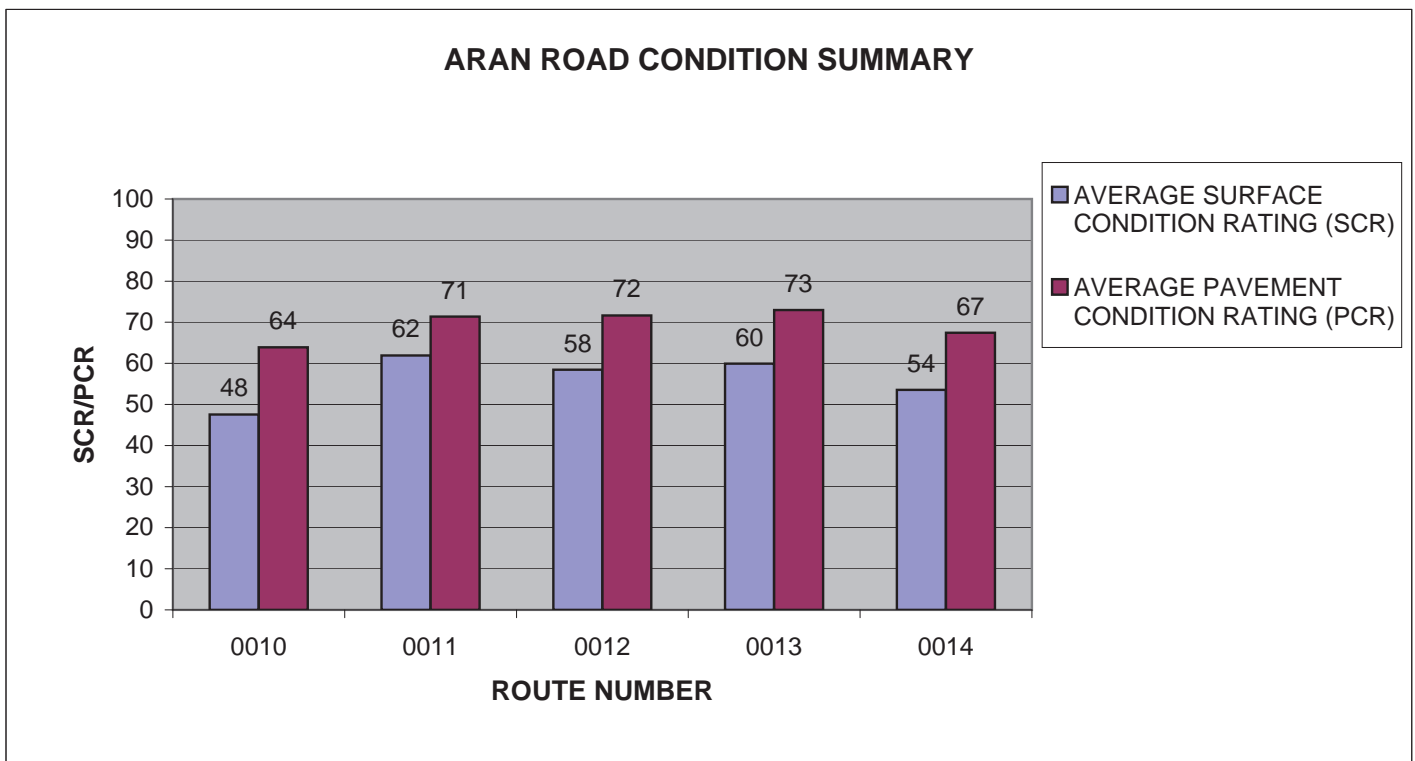
Section 2 **Park Summary Information**

**MOJA: PAVED ROUTE MILES AND PERCENTAGES
BY FUNCTIONAL CLASS AND PCR**

F.C.	Pavement Condition Rating (PCR)								TOTAL MILES
	Poor (<=60)		Fair (61-84)		Good (85-94)		Excellent (95-100)		
	MILES	%	MILES	%	MILES	%	MILES	%	
1	58.65	37.45%	71.82	45.86%	19.15	12.23%	6.46	4.13%	156.08
2	0.47	0.30%	0.04	0.03%					0.51
3									
4									
5									
6									
7									
8									
Totals	59.12	37.75%	71.86	45.89%	19.15	12.23%	6.46	4.13%	156.59

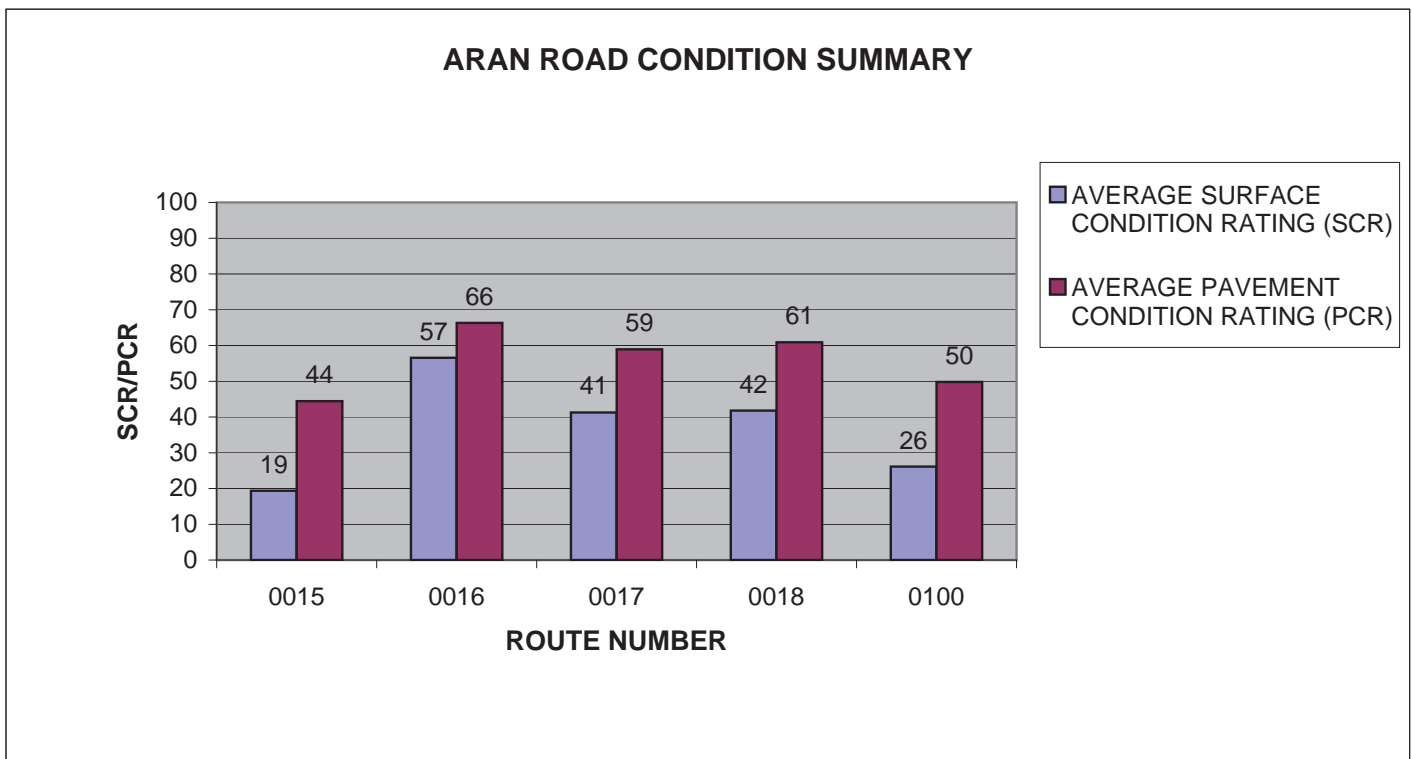
MOJA: ARAN ROAD CONDITION SUMMARY

ROUTE NUMBER	ROUTE NAME	FUNCT CLASS	ROUTE LENGTH	SURFACE TYPE	AVERAGE SURFACE CONDITION RATING (SCR)	AVERAGE PAVEMENT CONDITION RATING (PCR)
0010	KELBAKER ROAD	1	56.98	ASPHALT	48	64
0011	KELSO-CIMA ROAD	1	18.96	ASPHALT	62	71
0012	CIMA ROAD	1	24.44	ASPHALT	58	72
0013	MORNING STAR MINE ROAD	1	14.99	ASPHALT	60	73
0014	IVANPAH ROAD	1	30.27	ASPHALT	54	67



MOJA: ARAN ROAD CONDITION SUMMARY

ROUTE NUMBER	ROUTE NAME	FUNCT CLASS	ROUTE LENGTH	SURFACE TYPE	AVERAGE SURFACE CONDITION RATING (SCR)	AVERAGE PAVEMENT CONDITION RATING (PCR)
0015	LANFAIR ROAD	1	16.1	ASPHALT	19	44
0016	CEDAR CANYON ROAD	1	20.35	ASPHALT	57	66
0017	BLACK CANYON ROAD	1	21.23	ASPHALT	41	59
0018	ESSEX ROAD	1	13.79	ASPHALT	42	61
0100	ZZYZX ROAD	2	4.71	ASPHALT	26	50

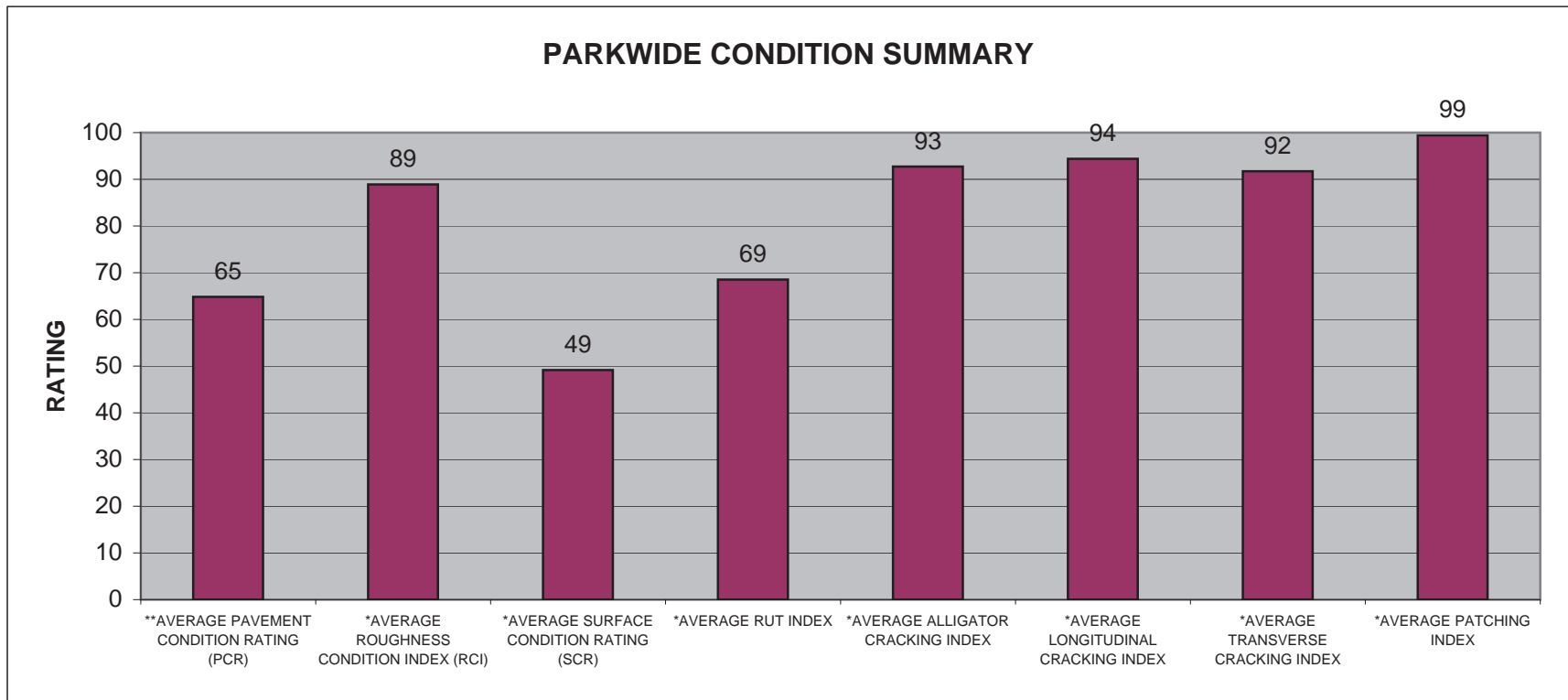


MOJA: PARKWIDE CONDITION SUMMARY

**AVERAGE PAVEMENT CONDITION RATING (PCR)	*AVERAGE ROUGHNESS CONDITION INDEX (RCI)	*AVERAGE SURFACE CONDITION RATING (SCR)	*AVERAGE RUT INDEX	*AVERAGE ALLIGATOR CRACKING INDEX	*AVERAGE LONGITUDINAL CRACKING INDEX	*AVERAGE TRANSVERSE CRACKING INDEX	*AVERAGE PATCHING INDEX
65	89	49	69	93	94	92	99

** PCR Index is based on all ARAN-driven roads, parking areas, and manually rated routes.

* Index values are based on ARAN-driven roads only.

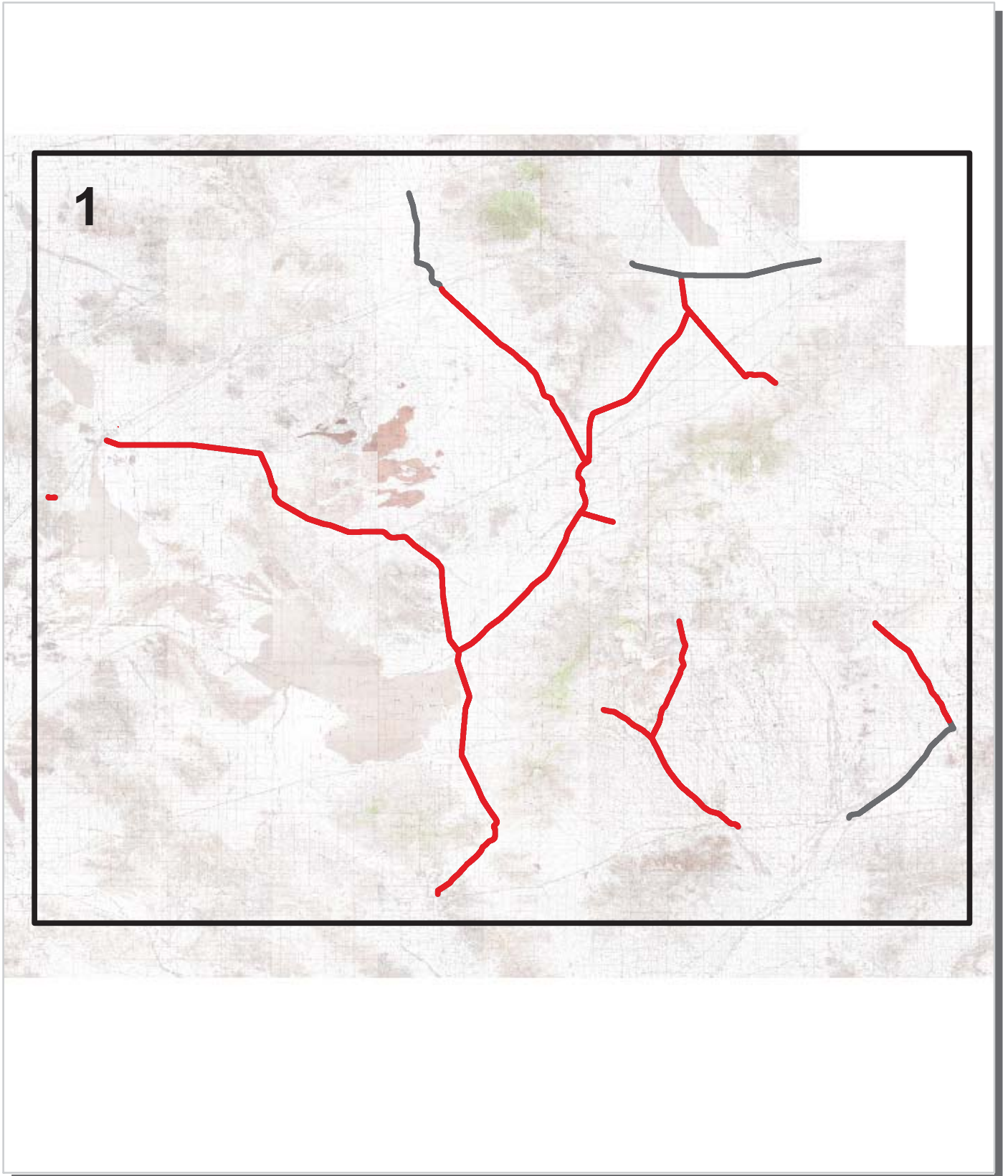


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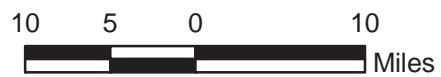


Section 3 **Park Route Location / Condition** **Maps**

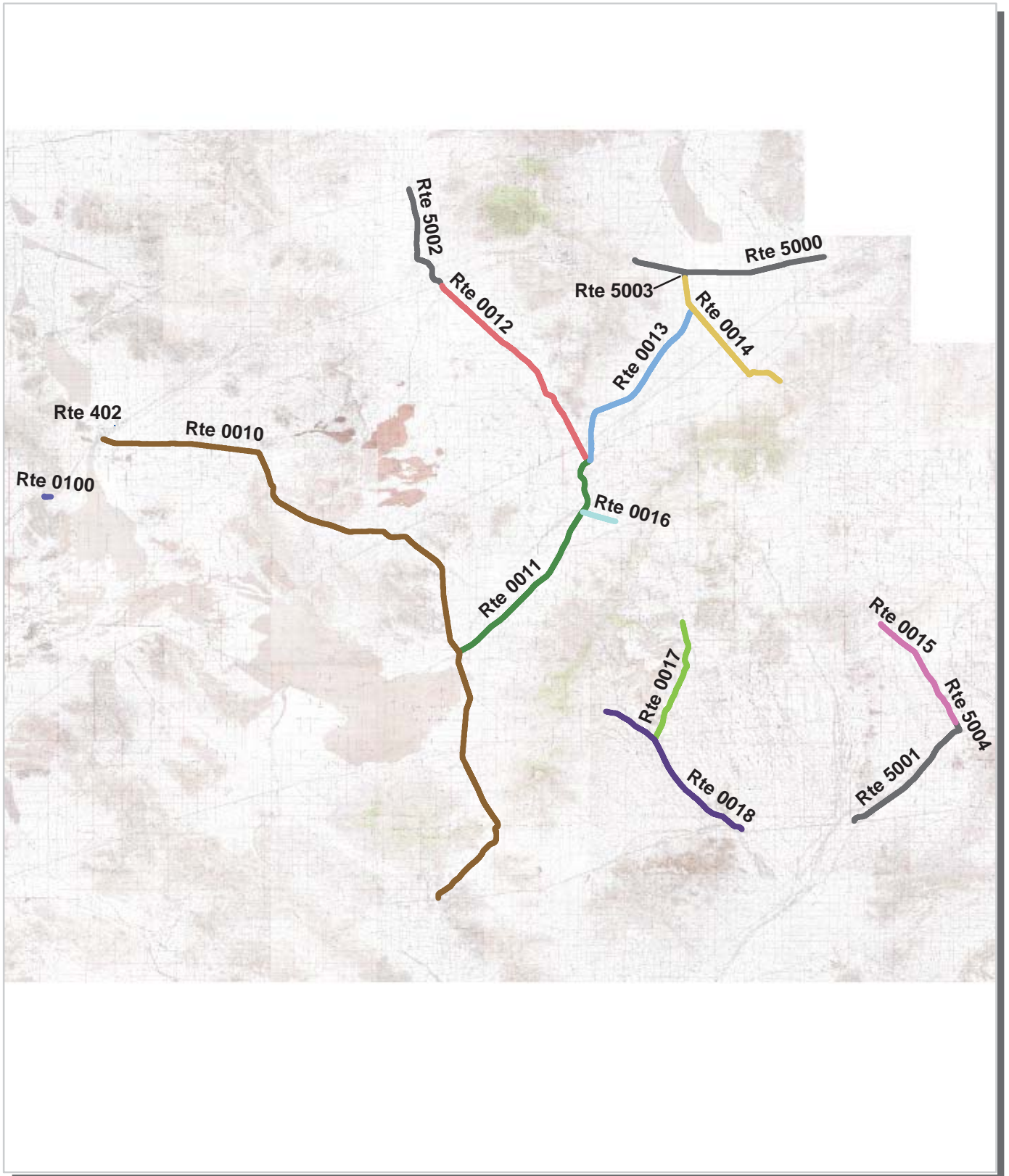
Mojave National Preserve Route Location Map Key Map



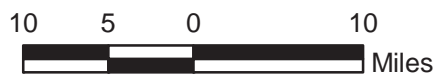
 Park Owned Routes



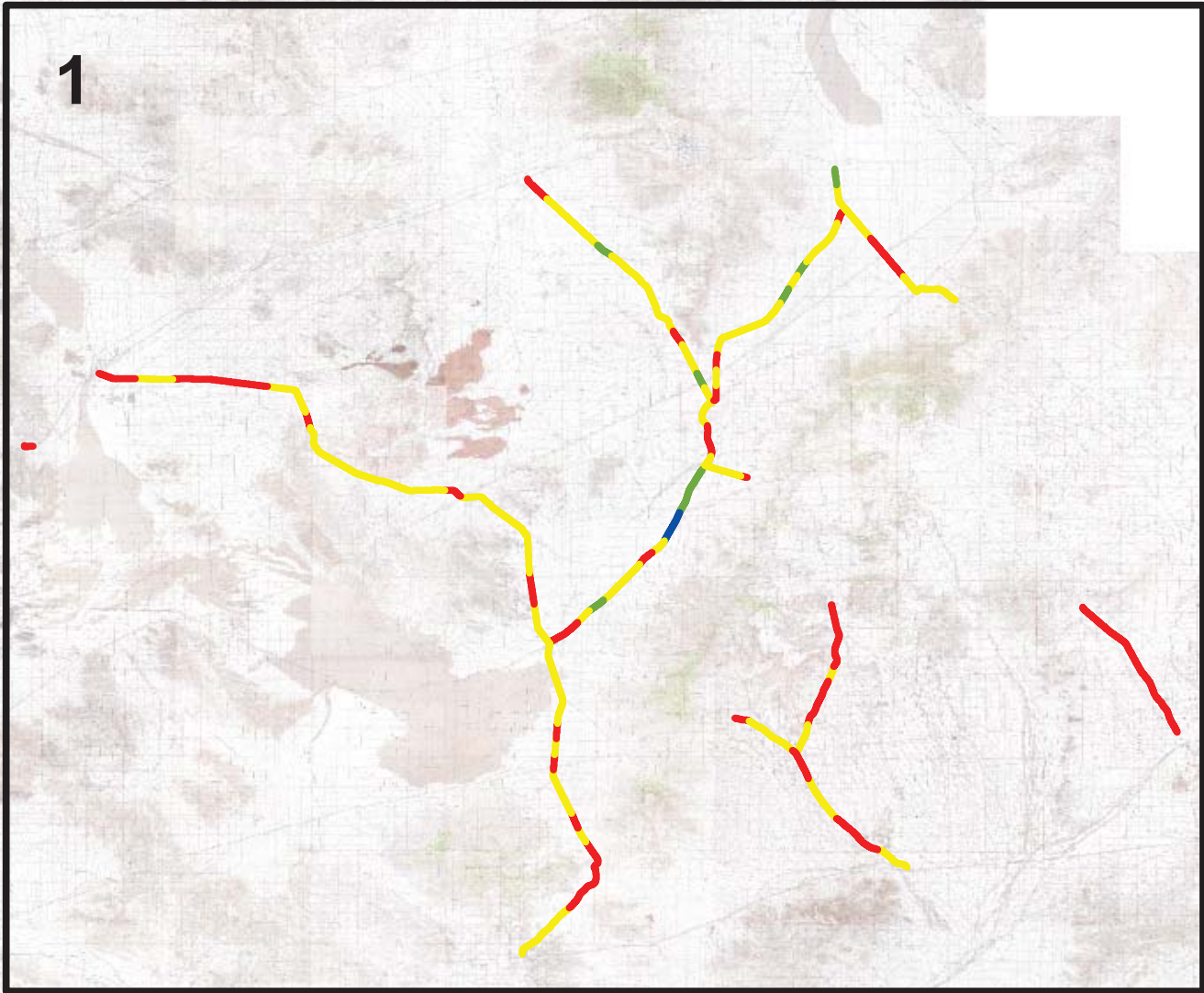
Mojave National Preserve Route Location Map Area 1



Unique colors used to differentiate routes



Mojave National Preserve
Route Condition Map
PCR - Mile by Mile
Key Map

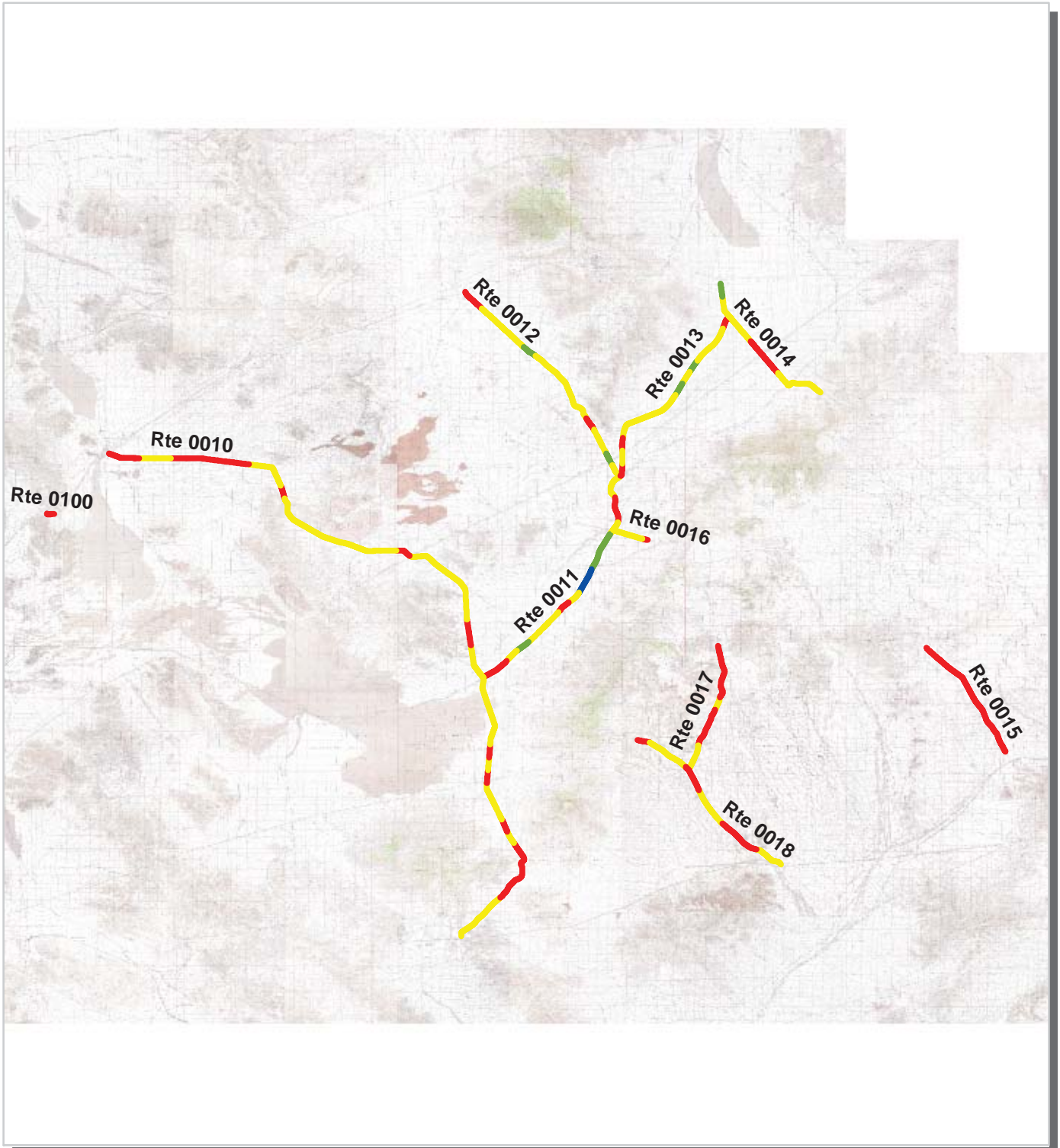


PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.



**Mojave National Preserve
Route Condition Map
PCR - Mile by Mile
Area 1**



PCR	Poor (≤60)	Fair (61 - 84)	Good (85 - 94)	Excellent (95 - 100)	No Data

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.



Mojave National Preserve



Section 4 **Park Route Inventory**

NPS/RIP Route ID Report

Road Inventory Program 03/25/2009

(Numerical By Route #)

Page 1 of 4

Shading Color Key:
Red text denotes approx. mileage

White = Paved Routes, ARAN Driven	Yellow = Unpaved Routes, ARAN not Driven	Blue = All Paved Parking Areas	Green = All Unpaved Parking Areas
Grey = Paved Routes, ARAN not Driven	Black = Paved State, Local or Private non-NPS Routes, ARAN Driven		■ = Concession Route Flag ON

** Unpaved Routes displayed on report were obtained from FMSS database and not inventoried by Road Inventory Program (RIP)

MOJA

MOJAVE NATIONAL PRESERVE

Rte. No.	FMSS No.	Concess Route	Route Name	Route Description		Maint. District	Paved Miles	Un-Paved Miles	Total Route Length	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type	Area Maps
				From	To									
0010	111378		KELBAKER ROAD	FROM NORTH PARK BOUNDARY AT CATTLE GUARD	TO SOUTH PARK BOUNDARY AT CATTLE GUARD	CINDER CONES	56.980	0.000	56.980	1		0	AS	1
0011	111377		KELSO-CIMA ROAD	FROM ROUTE 0010 (KELBAKER ROAD) AT MP 34.63 (ON LEFT)	TO ROUTE 0013 (MORNING STAR MINE ROAD) AT MP 18.96 (SIDE N/A)	MID HILLS	18.960	0.000	18.960	1		0	AS	1
0012	73955		CIMA ROAD	FROM ROUTE 0011 (KELSO-CIMA ROAD) AT MP 18.96 (ON LEFT)	TO CIMA ROAD (STATE MAINTAINED SECTION) AT CATTLE GUARD	STANDARD MINING	17.640	6.800	24.440	1		0	AS	1
0013	111380		MORNING STAR MINE ROAD	FROM INTERSECTION OF ROUTE 0011 AND ROUTE 0012	TO ROUTE 0014 (IVANPAH ROAD) AT MP 2.74 (ON RIGHT)	MORNING STAR MINE	14.990	0.000	14.990	1		0	AS	1
0014	108996		IVANPAH ROAD	FROM ROUTE 5003 (IVANPAH ROAD (EXTENSION))	TO END OF PAVEMENT	OX RANCH	11.570	18.700	30.270	1		0	AS	1
0015	105479		LANFAIR ROAD	FROM SOUTH PARK BOUNDARY AT ROUTE 5004 (LANFAIR ROAD (EXTENSION))	TO END OF PAVEMENT	HOLE IN THE WALL	9.650	6.450	16.100	1		0	AS	1
0016	105480		CEDAR CANYON ROAD	FROM ROUTE 0011 (KELSO-CIMA ROAD) AT MP 14.34 (ON RIGHT)	TO END OF PAVEMENT	MID HILLS	2.350	18.000	20.350	1		0	AS	1
0017	105481		BLACK CANYON ROAD	FROM ROUTE 0018 (ESSEX ROAD) AT MP 9.71 (ON RIGHT)	TO END OF PAVEMENT	HOLE IN THE WALL	10.150	11.080	21.230	1		0	AS	1
0018	111379		ESSEX ROAD	FROM SOUTH PARK BOUNDARY AT CATTLE GUARD	TO CA STATE PARK BOUNDARY AT CATTLE GUARD	PROVIDENCE MOUNTAINS	13.790	0.000	13.790	1		0	AS	1
0100	73952		ZZYZX ROAD	FROM INTERSTATE 15	TO END OF PAVEMENT	ZZYZX	0.510	4.200	4.710	2		0	AS	1
0101	73950		RD WILDHORSE CANYON ROAD	FROM BLACK CANYON ROAD	TO BLACK CANYON ROAD	N/A	0.000	13.000	13.000	2		0	GR	
0200	73843		MH CAMPGROUND ROAD	FROM WILD HORSES CANYON ROAD	TO END OF LOOP	N/A	0.000	1.000	1.000	3		0	NV	
0202	73951		KELSO DUNES ROAD	FROM ROUTE 0010 (KELBAKER ROAD) AT MP 42.48 (ON RIGHT)	TO DEAD END	N/A	0.000	4.250	4.250	3		0	NV	
0205	73954		VALLEY VIEW ROAD	FROM DEER SPRINGS ROAD	TO ROUTE 0012 (CIMA ROAD) AT MP 7.66 (ON LEFT)	N/A	0.000	2.000	2.000	3		0	NV	
0210	73959		HW VISITOR CENTER/PICNIC AREA ROAD	FROM BLACK CANYON ROAD	TO DEAD END	N/A	0.000	0.400	0.400	3		0	NV	

NPS/RIP Route ID Report

Shading Color Key:

Red text denotes approx. mileage

White = Paved Routes, ARAN Driven	Yellow = Unpaved Routes, ARAN not Driven	Blue = All Paved Parking Areas	Green = All Unpaved Parking Areas
Grey = Paved Routes, ARAN not Driven	Black = Paved State, Local or Private non-NPS Routes, ARAN Driven	■ = Concession Route Flag ON	

** Unpaved Routes displayed on report were obtained from FMSS database and not inventoried by Road Inventory Program (RIP)

General Park Road Functional Classification Table

- Class 1** Principal Park Road/Rural Parkway (Public Roads) Roads which constitute the main access route, circulatory tour, or thoroughfare for park visitors. Route Numbers 1 - 99. Note: Rural parkways (e.g. Natchez Trace) are numbered 1 - 9. State Routes Inventoried for Park. Route Numbers 5000-5999
- Class 2** Connector Park Road (Public Roads) - Roads which provide access within a park to areas of scenic, scientific, recreational or cultural interest, such as overlooks, campgrounds, etc. Route Numbers 100-199.
- Class 3** Special Purpose Park Road (Public Roads) - Roads which provide circulation within public areas, such as campgrounds, picnic areas, visitor center complexes, concessionaire facilities, etc. These roads generally serve low-speed traffic and are often designed for one-way circulation. Route Numbers 200-299.
- Class 4** Primitive Park Roads (Public Roads) - Roads which provide circulation through remote areas and/or access to primitive campgrounds and undeveloped areas. These roads frequently have no minimum design standards and their use may be limited to specially equipped vehicles. Route Numbers 200-299.
Note: Functional Classes 3 and 4 have the same route numbers because, historically, they were numbered similarly.
- Class 5** Administrative Access Road (Administrative Roads) - All public roads intended for access to administrative developments or structures such as park offices, employee quarters, or utility areas. Route Numbers 400-499.
- Class 6** Restricted Road (Administrative Roads) - All roads normally closed to the public, including patrol roads, truck trails, and other similar roads. Route Numbers 400-499.
Note: Functional Classes 5 and 6 have the same route numbers because historically they were numbered similarly and often there is little distinction between these routes. For example, because utility areas and employee housing are often closed to the public, this restriction would result in classification of FC 6 rather than FC 5.
- Class 7** Urban Parkway (Urban Parkways and City Streets) - These facilities serve high volumes of park and non-park related traffic and are restricted, limited-access facilities in an urban area. This category of roads primarily encompasses the major parkways which serve as gateways to our nation's capital. Other major park roads or portions thereof, however, may be included in this category. Route Numbers 1-9.
- Class 8** City Streets (Urban Parkways and City Streets) - City streets are usually extensions of the adjoining street system that are owned and maintained by the National Park Service. The construction and/or reconstruction should conform with accepted local engineering practice and local conditions. Route Numbers 600-699.

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

The historic route numbering system also included a 300 number series for interpretive roads, and a 500 series for one-way roads. There are approximately 250 roads nationwide which are designated by the 300 and 500 series. The numbers for these roads will be maintained for reporting consistency. However, since these interpretive and one-way routes are not as clearly tied to a specific functional class, the 300 and 500 series will be discontinued for future use.

5000 route numbers are assigned to Non-NPS Routes that are State, County or City owned which border, traverse, or provide access to Park Facilities or Assets. 5000 Routes are driven for GPS, Video Log and Road Features only.

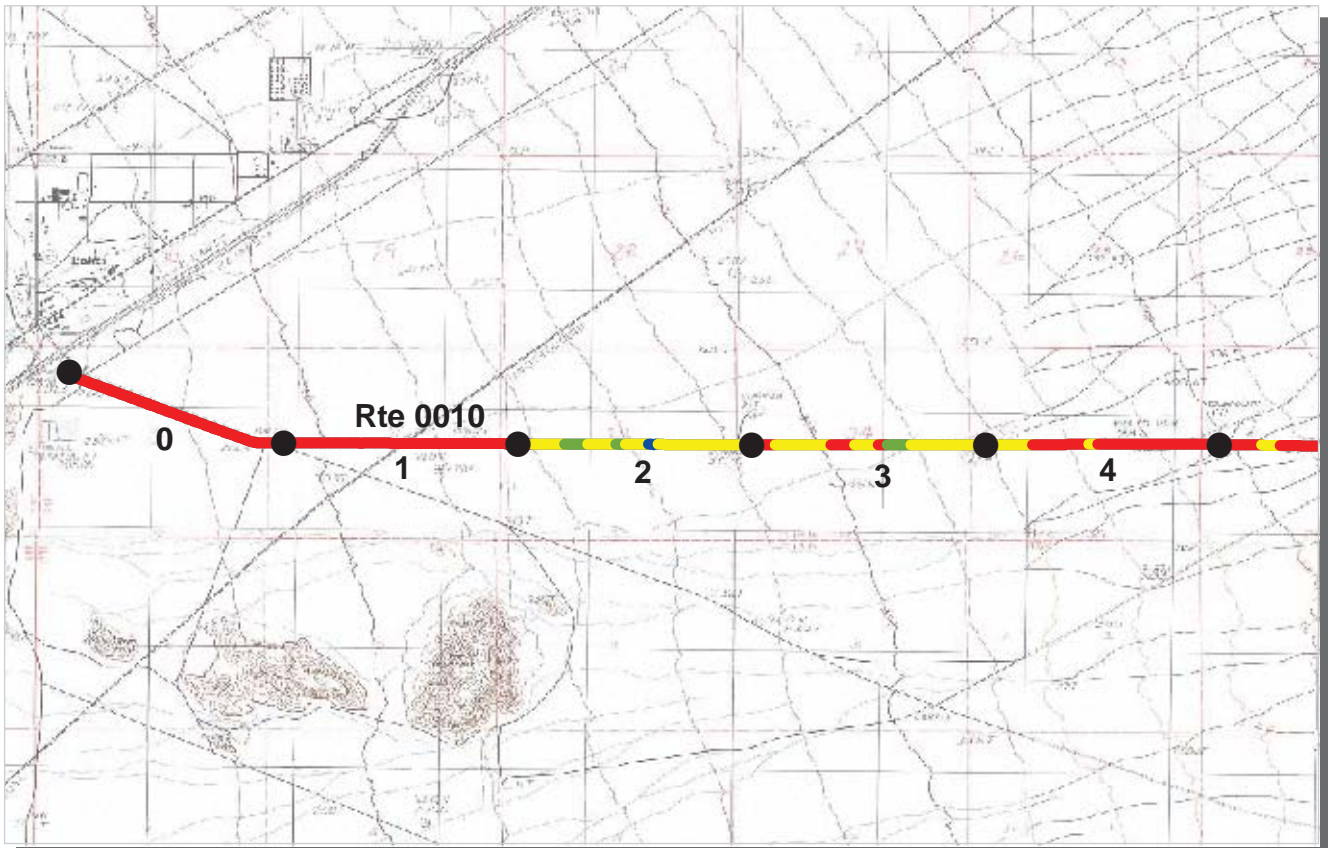
Surface Type Abbreviations:

- AS - Asphaltic Concrete Pavement**
- CO - Portland Cement Concrete Pavement**
- BR - Brick or Pavers Road Bed**
- CB - Cobble Stone Road Bed**
- GR - Gravel Road Bed**
- SA - Sand Road Bed**
- NV - Native or Dirt Material Road Bed**
- OT - Other Materials Road Bed**

Mojave National Preserve



Section 5 **Paved Route Condition Rating Sheets** **(CRS)**



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

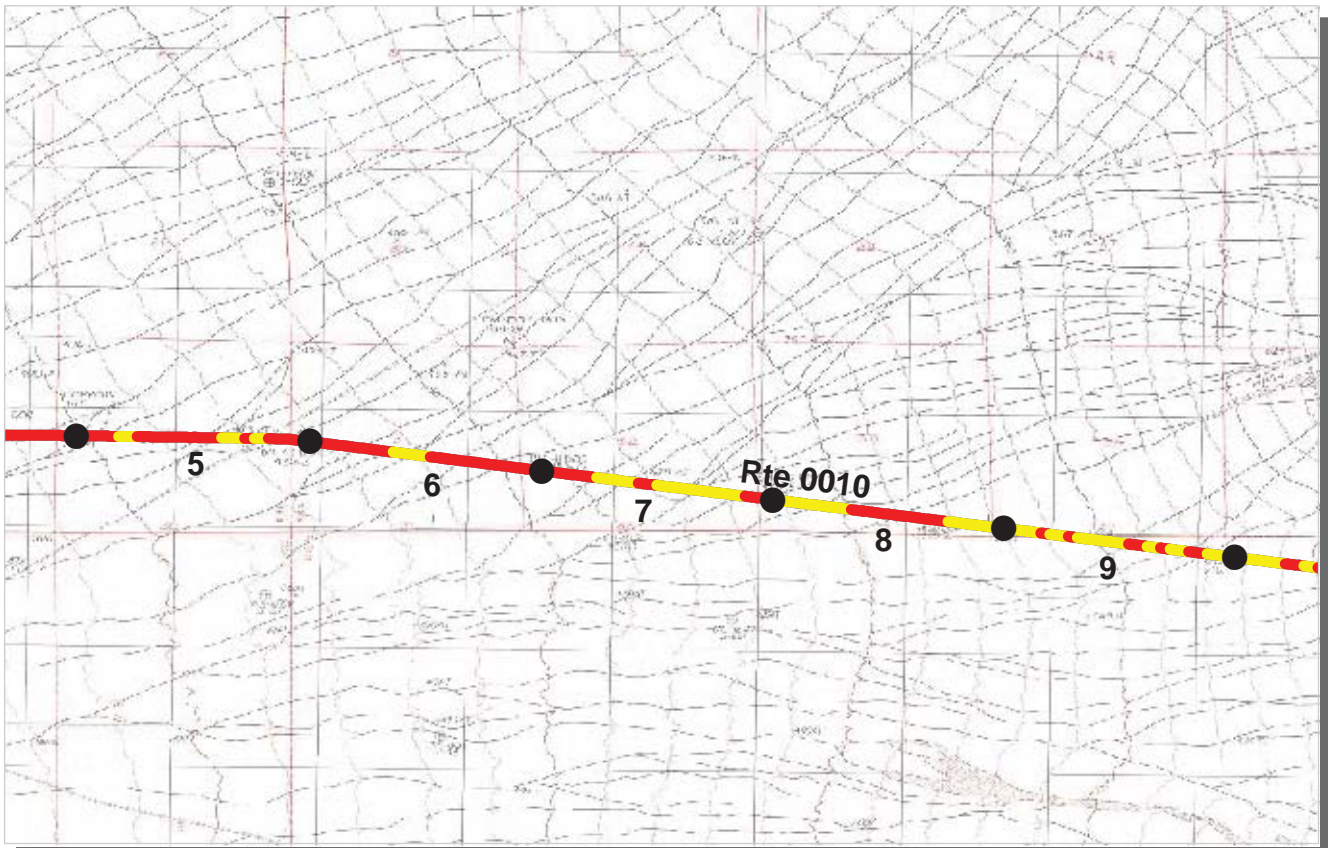
ROUTE: 0010 KELBAKER ROAD
MOJA : MOJAVE NATIONAL PRESERVE

COLLECTED: 4/22/2008
TOTAL LENGTH: 56.98 Miles

PACIFIC WEST REGION

<i>Section Number</i>	0	1	2	3	4
<i>Section Length (mi)</i>	1.00	1.00	1.00	1.00	1.00
<i>Traffic</i>	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<i>Cross Section Information</i>					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	27	24	23	23	23
Lane Width (ft)	11	10	10	10	10
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
<i>Roadway Condition Information</i>					
SCR (Surface Condition Rating)	7	0	60	48	34
PCR (Pavement Condition Rating)	43	32	74	67	57
<i>Distress Index Values</i>					
Alligator Cracking Index	52	0	94	99	100
Longitudinal Cracking Index	78	100	95	90	90
Transverse Cracking Index	69	100	94	86	86
Patching Index	100	100	100	100	100
Rutting Index	92	75	77	74	58
Roughness Condition Index (RCI)	99	81	95	95	92

ROUTE: 0010 KELBAKER ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

ROUTE: 0010 KELBAKER ROAD
MOJA : MOJAVE NATIONAL PRESERVE

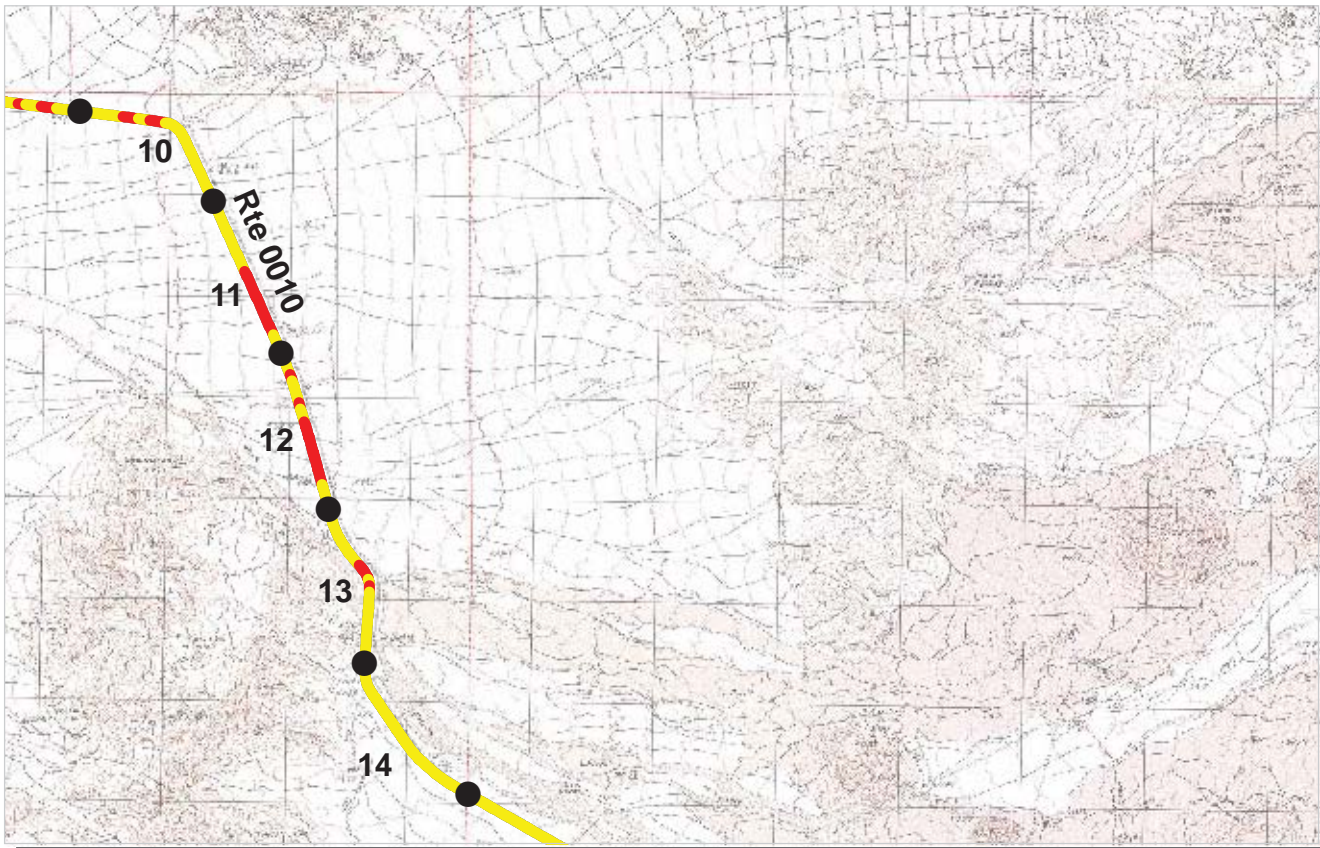
COLLECTED: 4/22/2008
TOTAL LENGTH: 56.98 Miles

PACIFIC WEST REGION

<i>Section Number</i>	5	6	7	8	9
<i>Section Length (mi)</i>	1.00	1.00	1.00	1.00	1.00
<i>Traffic</i>	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<i>Cross Section Information</i>					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	24	24	24	24	24
Lane Width (ft)	10	10	10	10	10
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
<i>Roadway Condition Information</i>					
SCR (Surface Condition Rating)	41	30	45	42	40
PCR (Pavement Condition Rating)	57	54	60	59	63
<i>Distress Index Values</i>					
Alligator Cracking Index	100	100	100	100	100
Longitudinal Cracking Index	92	92	95	92	91
Transverse Cracking Index	89	88	90	89	87
Patching Index	100	100	100	100	100
Rutting Index	60	51	59	60	62
Roughness Condition Index (RCI)	81	90	84	84	97

ROUTE: 0010 KELBAKER ROAD

NC - Not Collected



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

ROUTE: 0010 KELBAKER ROAD
MOJA : MOJAVE NATIONAL PRESERVE

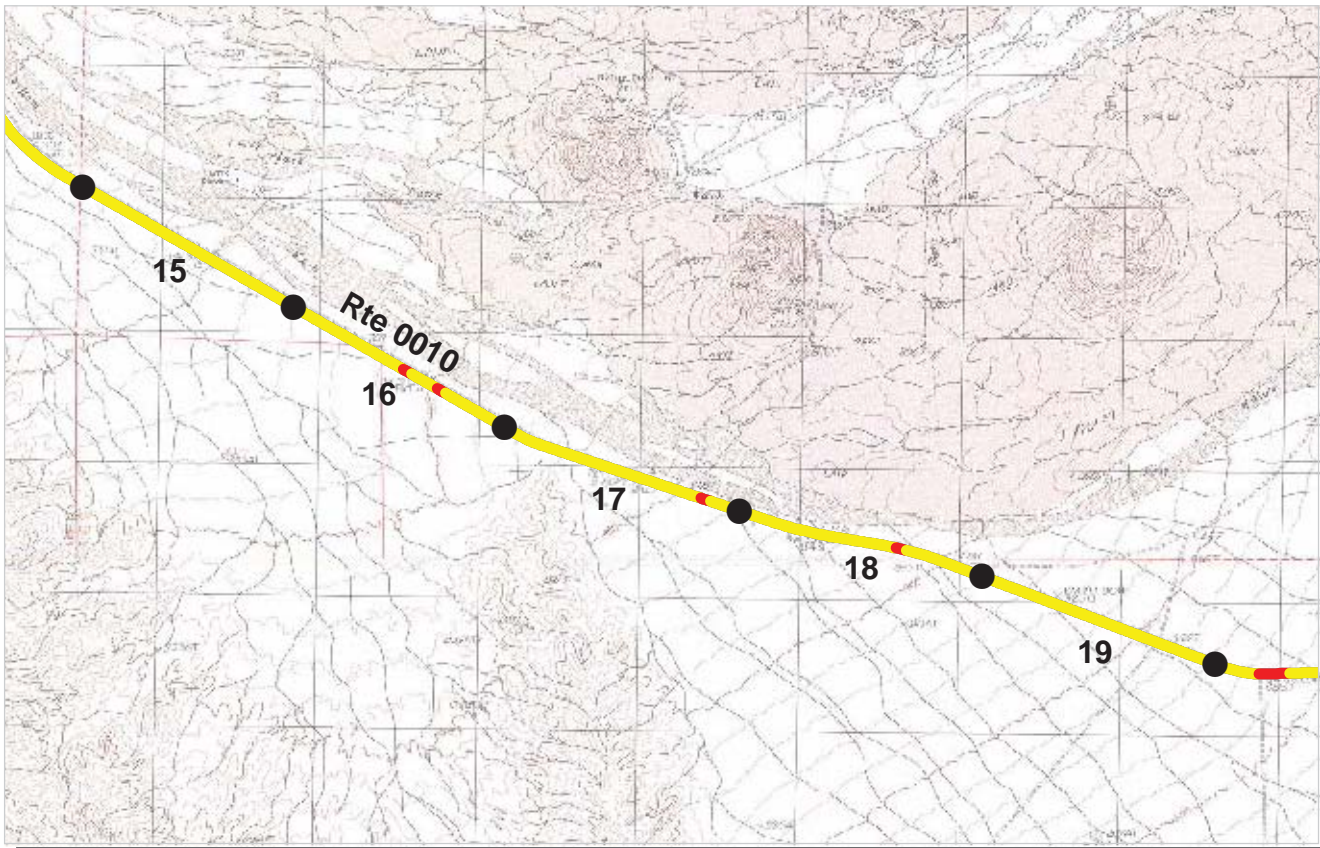
COLLECTED: 4/22/2008
TOTAL LENGTH: 56.98 Miles

PACIFIC WEST REGION

Section Number	10	11	12	13	14
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	25	25	25	25	25
Lane Width (ft)	10	11	11	10	10
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
Roadway Condition Information					
SCR (Surface Condition Rating)	48	43	38	58	63
PCR (Pavement Condition Rating)	67	62	60	69	76
Distress Index Values					
Alligator Cracking Index	100	100	99	100	100
Longitudinal Cracking Index	96	94	91	100	100
Transverse Cracking Index	93	89	86	99	100
Patching Index	100	100	100	100	100
Rutting Index	59	60	61	59	63
Roughness Condition Index (RCI)	95	89	94	86	96

ROUTE: 0010 KELBAKER ROAD

NC - Not Collected



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

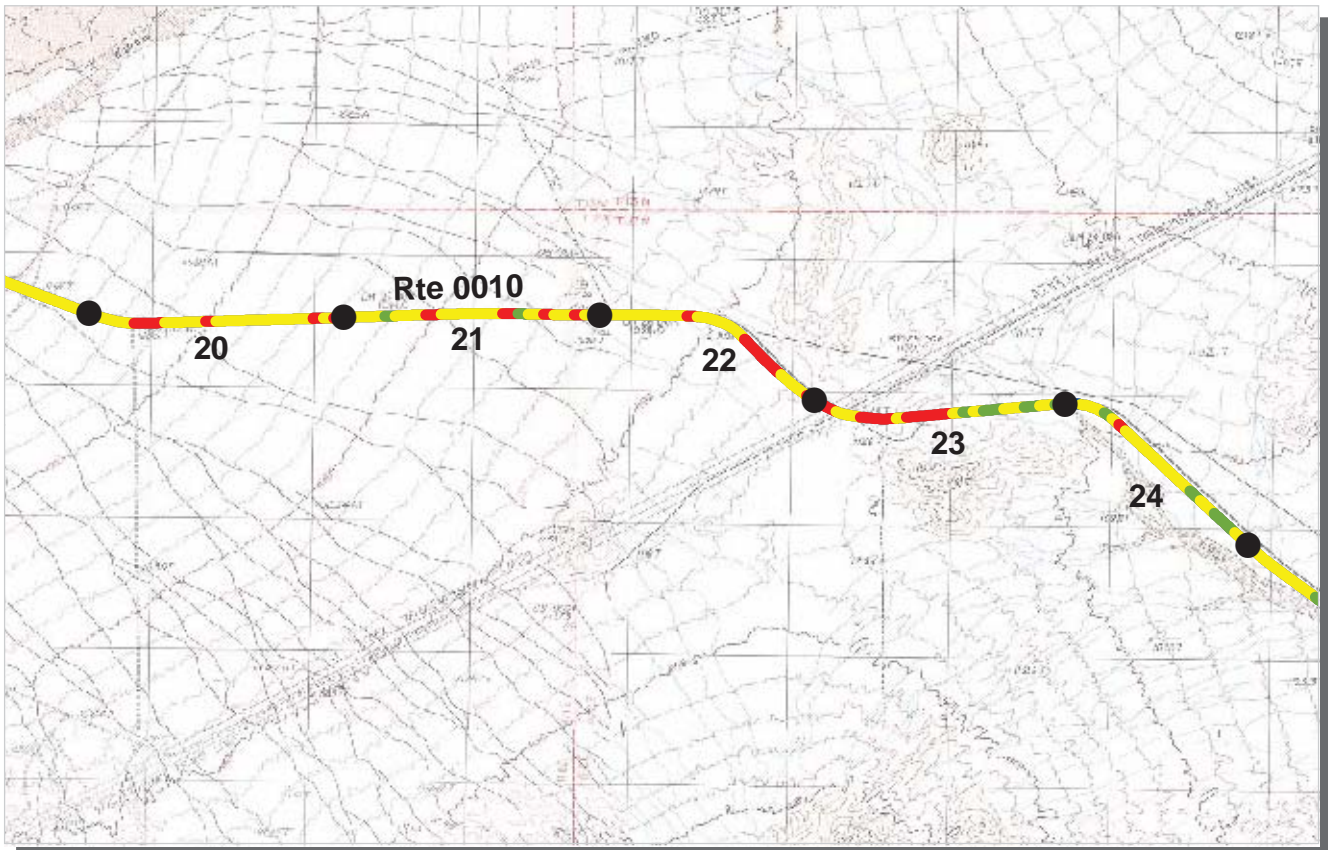
ROUTE: 0010 KELBAKER ROAD
MOJA : MOJAVE NATIONAL PRESERVE

COLLECTED: 4/22/2008
TOTAL LENGTH: 56.98 Miles

PACIFIC WEST REGION

<i>Section Number</i>	15	16	17	18	19
<i>Section Length (mi)</i>	1.00	1.00	1.00	1.00	1.00
<i>Traffic</i>	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<i>Cross Section Information</i>					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	26	25	25	25	25
Lane Width (ft)	10	11	11	11	10
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
<i>Roadway Condition Information</i>					
SCR (Surface Condition Rating)	56	53	55	59	58
PCR (Pavement Condition Rating)	74	71	71	72	72
<i>Distress Index Values</i>					
Alligator Cracking Index	100	100	100	100	100
Longitudinal Cracking Index	100	100	100	99	100
Transverse Cracking Index	100	100	100	100	100
Patching Index	100	100	100	100	100
Rutting Index	56	53	56	60	58
Roughness Condition Index (RCI)	100	99	95	92	94

ROUTE: 0010 KELBAKER ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

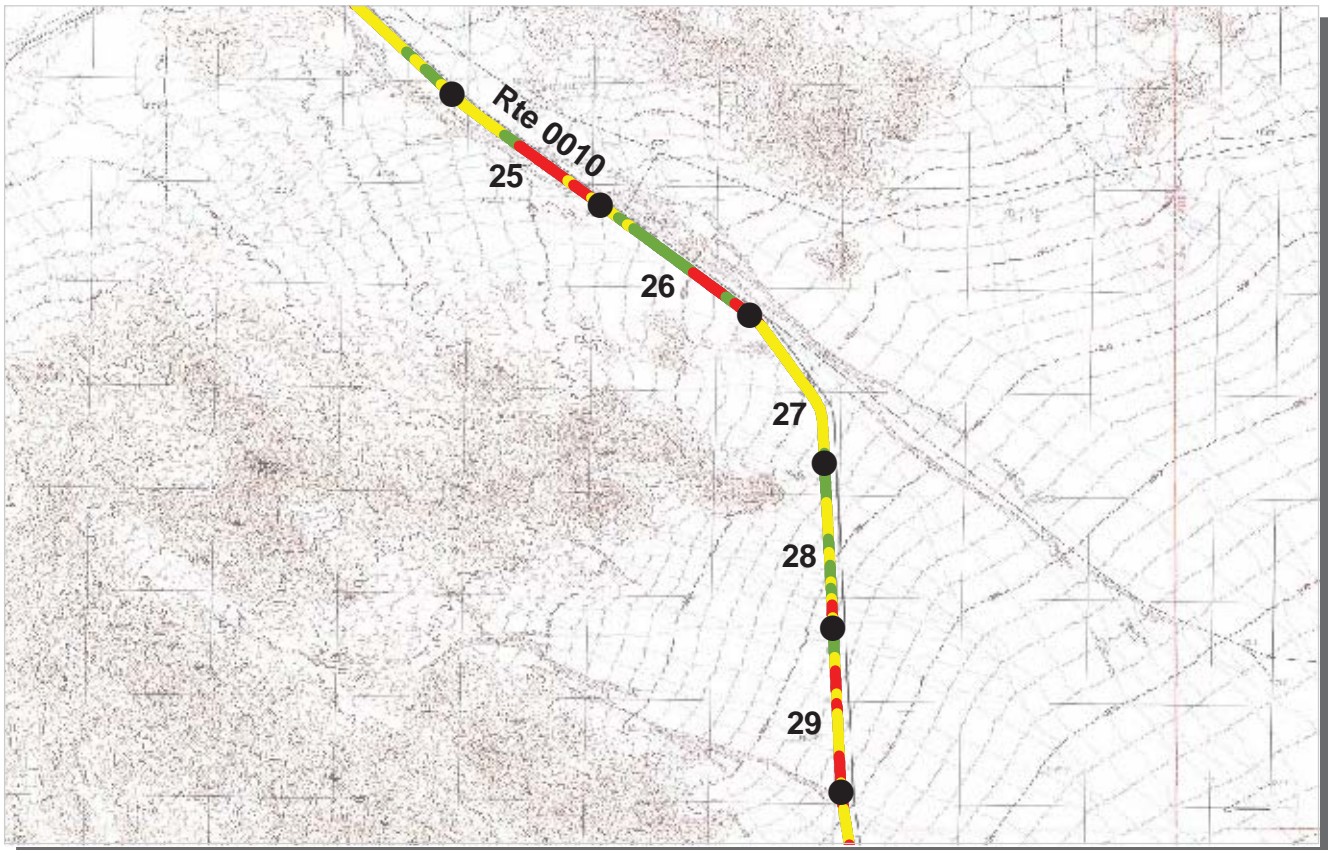
ROUTE: 0010 KELBAKER ROAD
MOJA : MOJAVE NATIONAL PRESERVE

COLLECTED: 4/22/2008
TOTAL LENGTH: 56.98 Miles

PACIFIC WEST REGION

<i>Section Number</i>	20	21	22	23	24
<i>Section Length (mi)</i>	1.00	1.00	1.00	1.00	1.00
<i>Traffic</i>	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<i>Cross Section Information</i>					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	25	22	24	25	24
Lane Width (ft)	10	10	10	10	11
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
<i>Roadway Condition Information</i>					
SCR (Surface Condition Rating)	58	51	53	53	70
PCR (Pavement Condition Rating)	62	62	59	63	79
<i>Distress Index Values</i>					
Alligator Cracking Index	100	100	100	100	100
Longitudinal Cracking Index	100	99	99	97	99
Transverse Cracking Index	100	100	100	98	100
Patching Index	99	96	97	98	100
Rutting Index	59	56	56	60	72
Roughness Condition Index (RCI)	69	79	72	81	92

ROUTE: 0010 KELBAKER ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

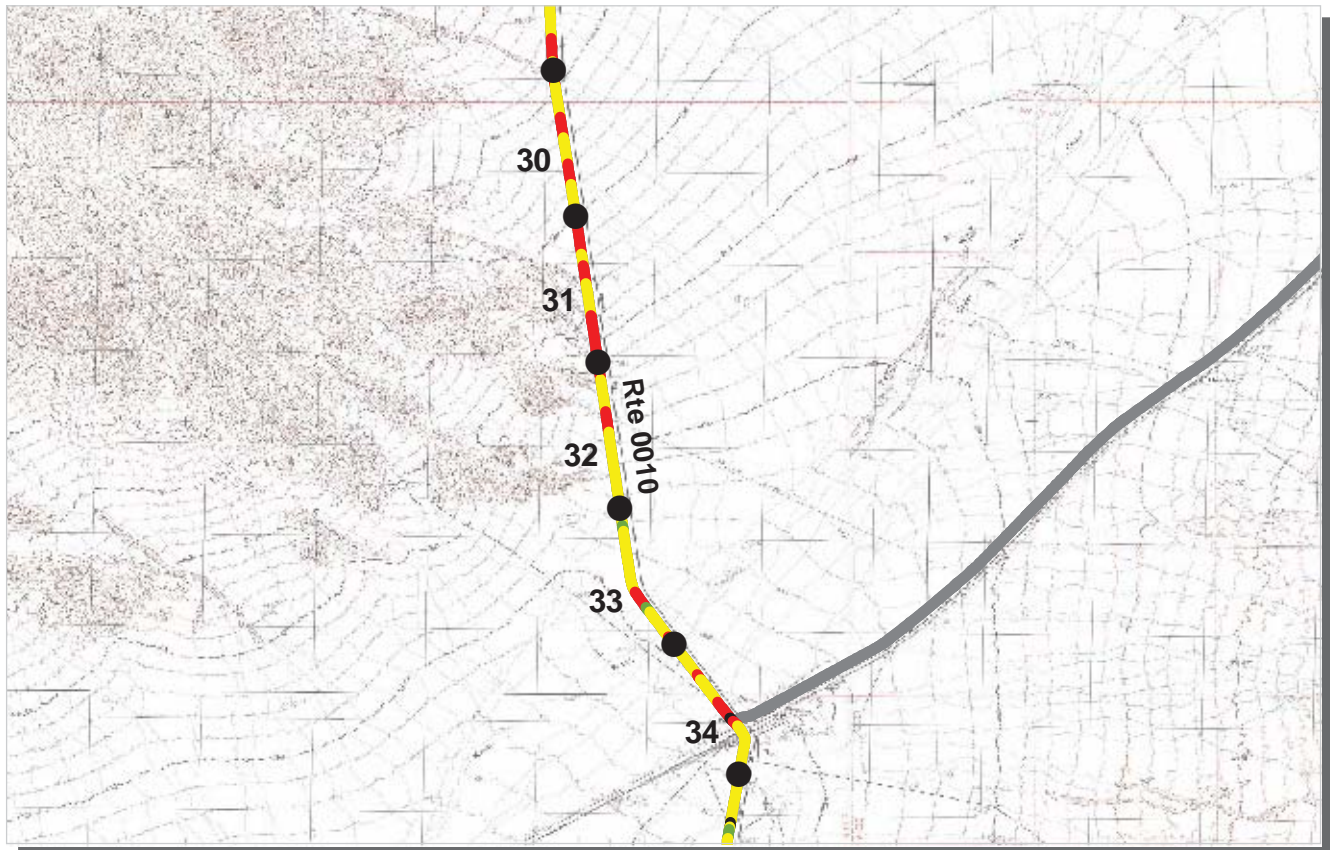
ROUTE: 0010 KELBAKER ROAD
MOJA : MOJAVE NATIONAL PRESERVE

COLLECTED: 4/22/2008
TOTAL LENGTH: 56.98 Miles

PACIFIC WEST REGION

<i>Section Number</i>	25	26	27	28	29
<i>Section Length (mi)</i>	1.00	1.00	1.00	1.00	1.00
<i>Traffic</i>	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<i>Cross Section Information</i>					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	23	23	24	23	23
Lane Width (ft)	10	10	10	10	10
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
<i>Roadway Condition Information</i>					
SCR (Surface Condition Rating)	54	60	68	71	55
PCR (Pavement Condition Rating)	64	70	77	77	65
<i>Distress Index Values</i>					
Alligator Cracking Index	96	98	100	100	100
Longitudinal Cracking Index	94	97	100	100	96
Transverse Cracking Index	93	96	100	100	92
Patching Index	99	99	100	99	100
Rutting Index	71	67	69	72	67
Roughness Condition Index (RCI)	80	84	91	88	80

ROUTE: 0010 KELBAKER ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

ROUTE: 0010 KELBAKER ROAD
MOJA : MOJAVE NATIONAL PRESERVE

COLLECTED: 4/22/2008
TOTAL LENGTH: 56.98 Miles

PACIFIC WEST REGION

Section Number	30	31	32	33	34
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	24	23	23	23	24
Lane Width (ft)	10	10	10	10	10
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
Roadway Condition Information					
SCR (Surface Condition Rating)	41	35	54	63	66
PCR (Pavement Condition Rating)	59	55	67	71	69
Distress Index Values					
Alligator Cracking Index	100	100	100	100	100
Longitudinal Cracking Index	97	92	98	99	100
Transverse Cracking Index	94	86	98	100	100
Patching Index	100	100	100	100	100
Rutting Index	50	55	58	64	67
Roughness Condition Index (RCI)	85	84	89	83	75

ROUTE: 0010 KELBAKER ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

ROUTE: 0010 KELBAKER ROAD
MOJA : MOJAVE NATIONAL PRESERVE

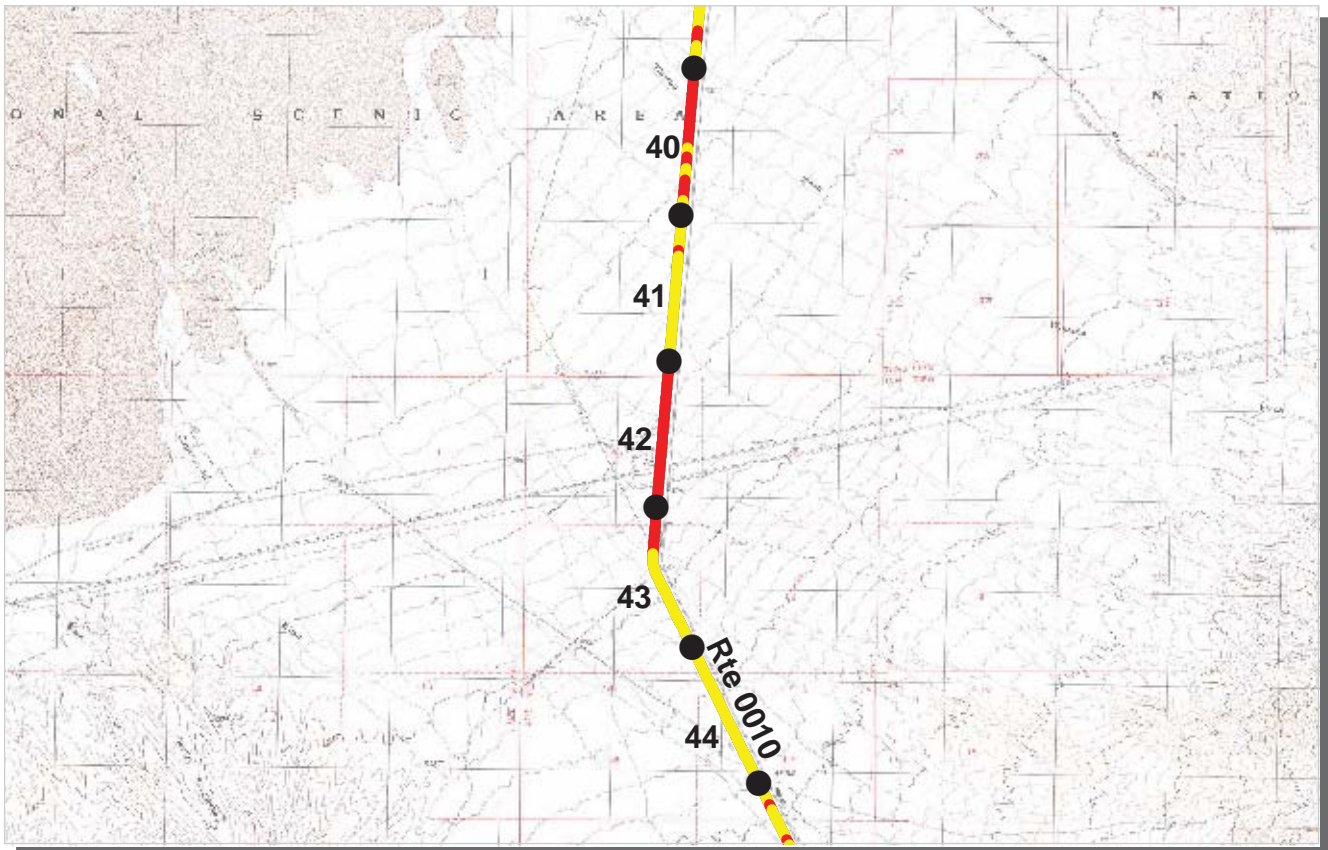
COLLECTED: 4/22/2008
TOTAL LENGTH: 56.98 Miles

PACIFIC WEST REGION

<i>Section Number</i>	35	36	37	38	39
<i>Section Length (mi)</i>	1.00	1.00	1.00	1.00	1.00
<i>Traffic</i>	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<i>Cross Section Information</i>					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	24	23	23	23	24
Lane Width (ft)	10	10	10	10	10
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
<i>Roadway Condition Information</i>					
SCR (Surface Condition Rating)	61	51	50	52	54
PCR (Pavement Condition Rating)	75	69	66	68	67
<i>Distress Index Values</i>					
Alligator Cracking Index	100	100	100	100	100
Longitudinal Cracking Index	93	90	96	98	97
Transverse Cracking Index	88	88	89	96	93
Patching Index	100	100	100	100	100
Rutting Index	79	74	65	58	65
Roughness Condition Index (RCI)	96	97	90	91	88

ROUTE: 0010 KELBAKER ROAD

NC - Not Collected



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

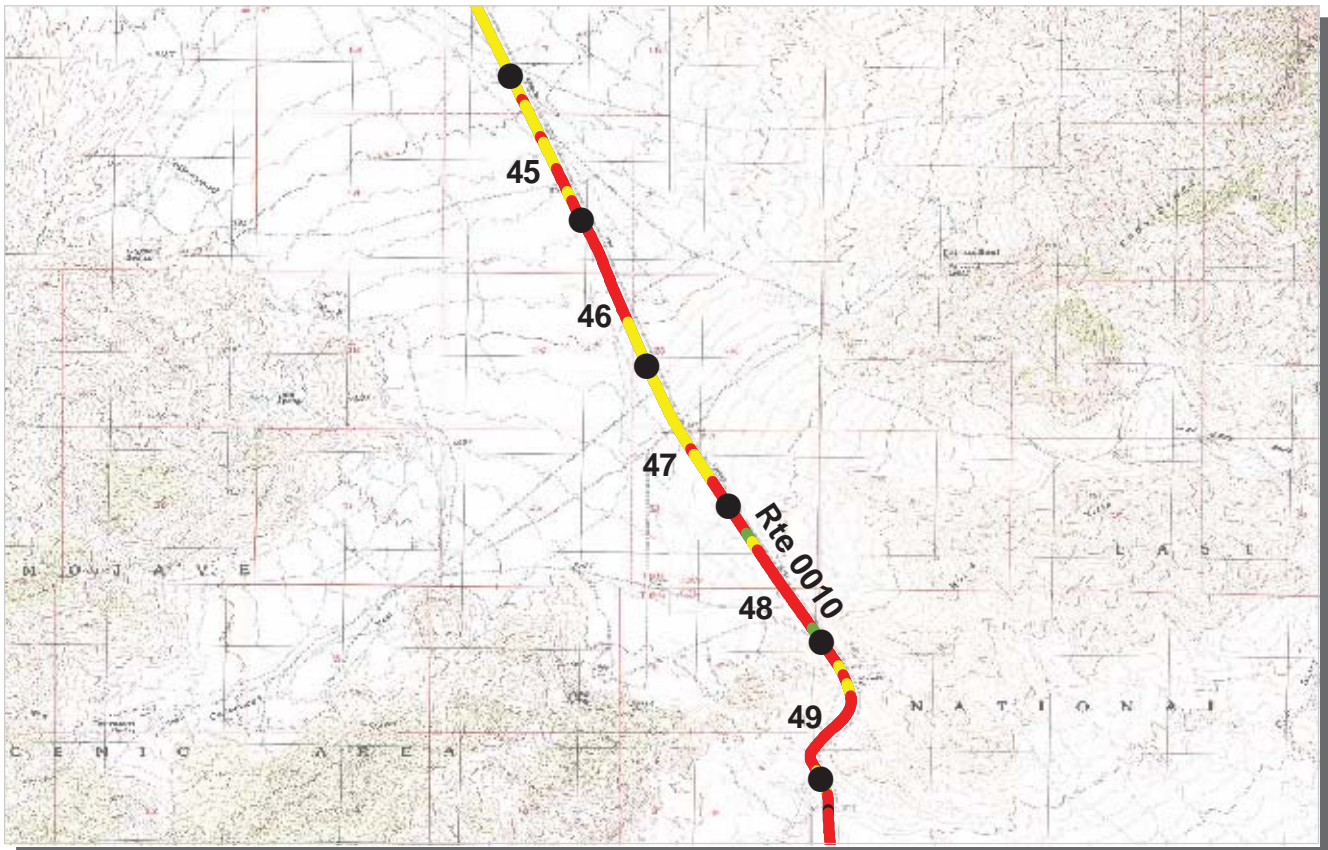
ROUTE: 0010 KELBAKER ROAD
MOJA : MOJAVE NATIONAL PRESERVE

COLLECTED: 4/22/2008
TOTAL LENGTH: 56.98 Miles

PACIFIC WEST REGION

<i>Section Number</i>	40	41	42	43	44
<i>Section Length (mi)</i>	1.00	1.00	1.00	1.00	1.00
<i>Traffic</i>	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<i>Cross Section Information</i>					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	23	23	24	22	22
Lane Width (ft)	10	10	10	10	10
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
<i>Roadway Condition Information</i>					
SCR (Surface Condition Rating)	30	47	14	41	54
PCR (Pavement Condition Rating)	53	67	45	61	66
<i>Distress Index Values</i>					
Alligator Cracking Index	95	98	85	98	98
Longitudinal Cracking Index	92	95	94	97	98
Transverse Cracking Index	80	82	81	93	97
Patching Index	100	100	100	100	100
Rutting Index	64	72	49	53	62
Roughness Condition Index (RCI)	88	98	93	91	85

ROUTE: 0010 KELBAKER ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

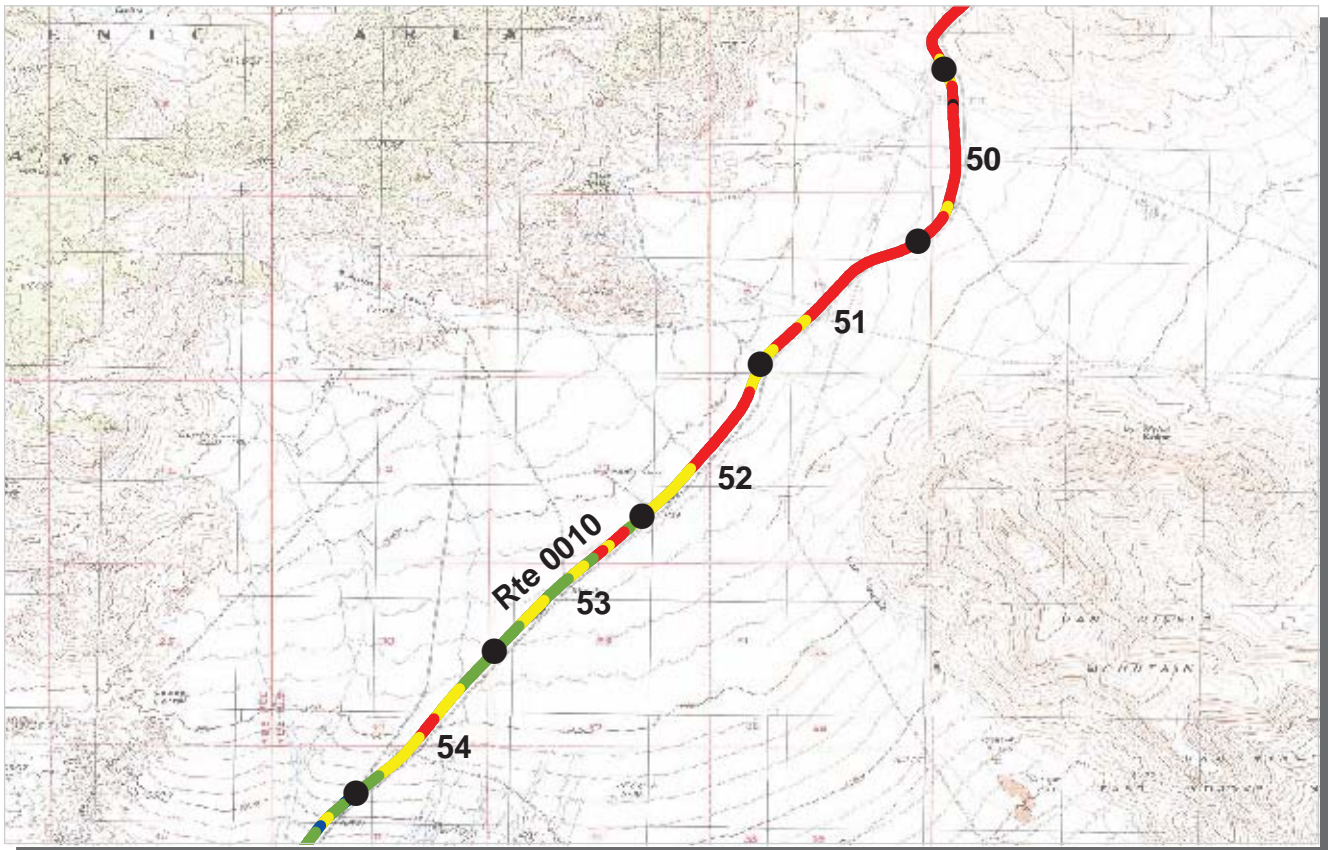
ROUTE: 0010 KELBAKER ROAD
MOJA : MOJAVE NATIONAL PRESERVE

COLLECTED: 4/22/2008
TOTAL LENGTH: 56.98 Miles

PACIFIC WEST REGION

<i>Section Number</i>	45	46	47	48	49
<i>Section Length (mi)</i>	1.00	1.00	1.00	1.00	1.00
<i>Traffic</i>	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<i>Cross Section Information</i>					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	23	24	25	26	26
Lane Width (ft)	10	11	11	10	11
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
<i>Roadway Condition Information</i>					
SCR (Surface Condition Rating)	48	28	52	33	26
PCR (Pavement Condition Rating)	62	52	69	53	48
<i>Distress Index Values</i>					
Alligator Cracking Index	94	76	97	82	68
Longitudinal Cracking Index	95	95	96	91	90
Transverse Cracking Index	92	87	93	90	88
Patching Index	100	100	100	100	100
Rutting Index	65	62	65	65	68
Roughness Condition Index (RCI)	84	89	95	83	83

ROUTE: 0010 KELBAKER ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

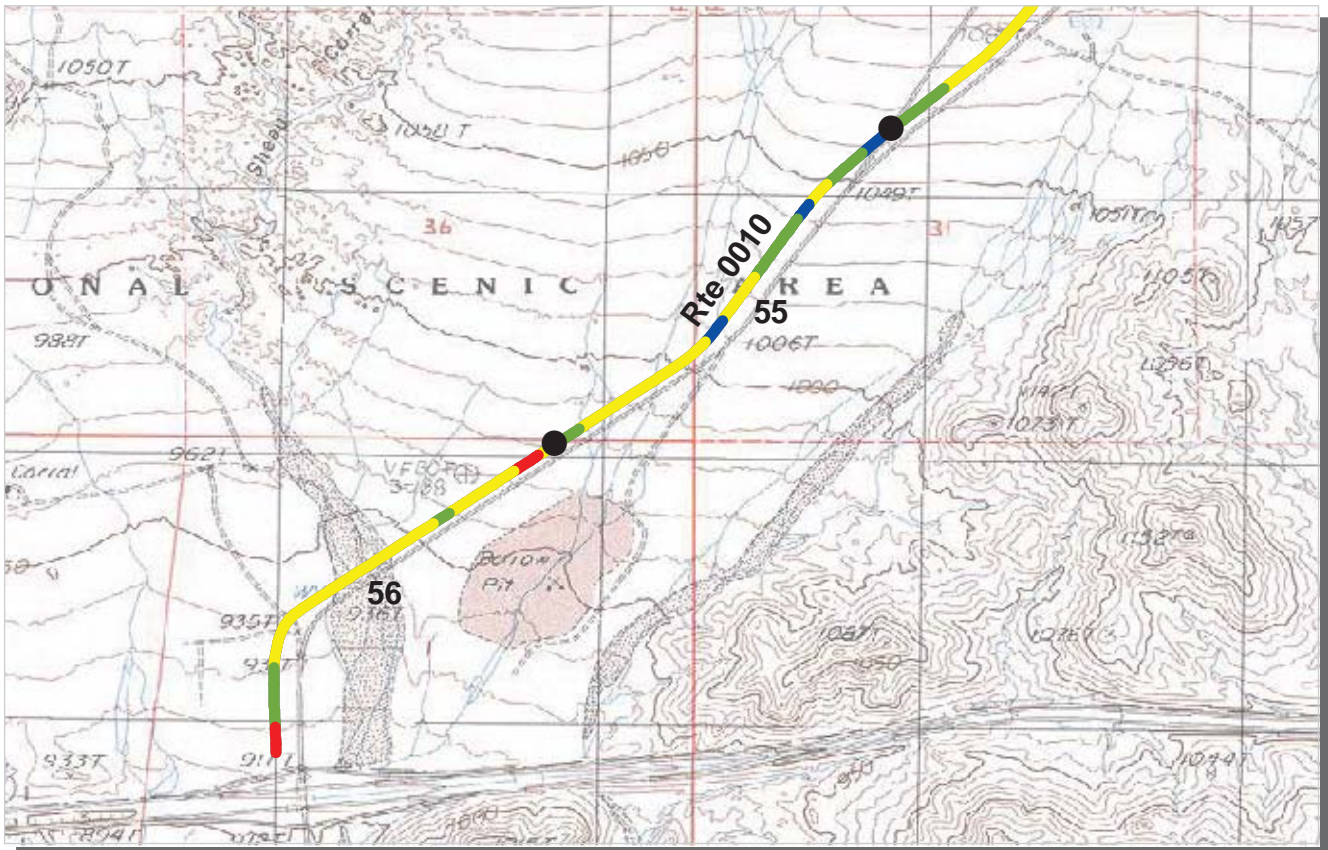
ROUTE: 0010 KELBAKER ROAD
MOJA : MOJAVE NATIONAL PRESERVE

COLLECTED: 4/22/2008
TOTAL LENGTH: 56.98 Miles

PACIFIC WEST REGION

<i>Section Number</i>	50	51	52	53	54
<i>Section Length (mi)</i>	1.00	1.00	1.00	1.00	1.00
<i>Traffic</i>	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<i>Cross Section Information</i>					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	26	26	26	26	25
Lane Width (ft)	11	11	11	11	11
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
<i>Roadway Condition Information</i>					
SCR (Surface Condition Rating)	19	21	36	64	68
PCR (Pavement Condition Rating)	49	48	55	75	78
<i>Distress Index Values</i>					
Alligator Cracking Index	77	79	71	95	100
Longitudinal Cracking Index	81	87	97	99	100
Transverse Cracking Index	76	82	95	100	100
Patching Index	100	100	100	100	100
Rutting Index	76	67	64	71	69
Roughness Condition Index (RCI)	95	89	84	92	93

ROUTE: 0010 KELBAKER ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

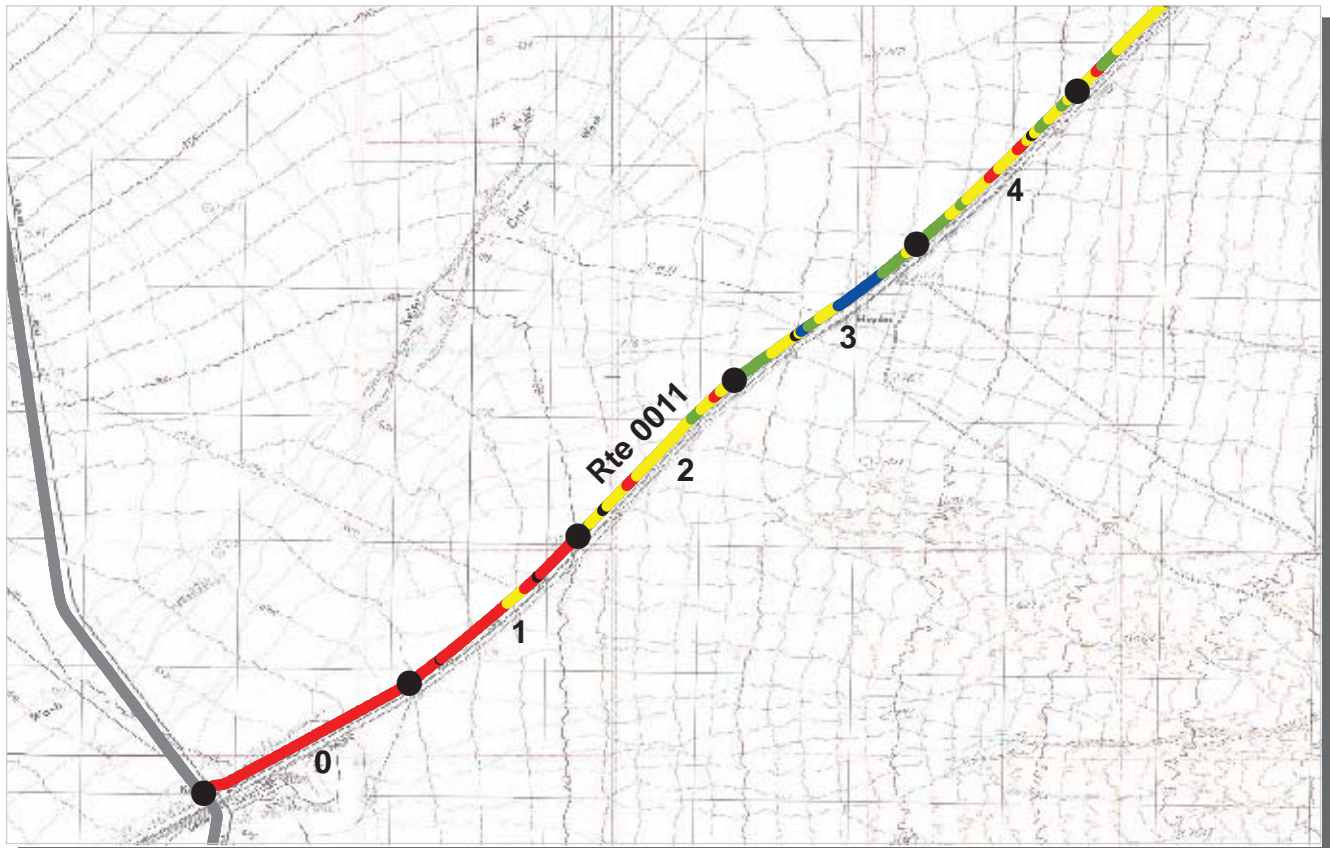
ROUTE: 0010 KELBAKER ROAD
MOJA : MOJAVE NATIONAL PRESERVE

COLLECTED: 4/22/2008
TOTAL LENGTH: 56.98 Miles

PACIFIC WEST REGION

Section Number	55	56			
Section Length (mi)	1.00	0.98			
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2	2			
Paved Width (ft)	27	27			
Lane Width (ft)	11	11			
Shoulder Width Right (ft)	NC	NC			
Shoulder Width Left (ft)	NC	NC			
Roadway Condition Information					
SCR (Surface Condition Rating)	74	62			
PCR (Pavement Condition Rating)	82	71			
Distress Index Values					
Alligator Cracking Index	100	96			
Longitudinal Cracking Index	100	99			
Transverse Cracking Index	100	98			
Patching Index	100	100			
Rutting Index	74	68			
Roughness Condition Index (RCI)	94	84			

ROUTE: 0010 KELBAKER ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

ROUTE: 0011 KELSO-CIMA ROAD
MOJA : MOJAVE NATIONAL PRESERVE

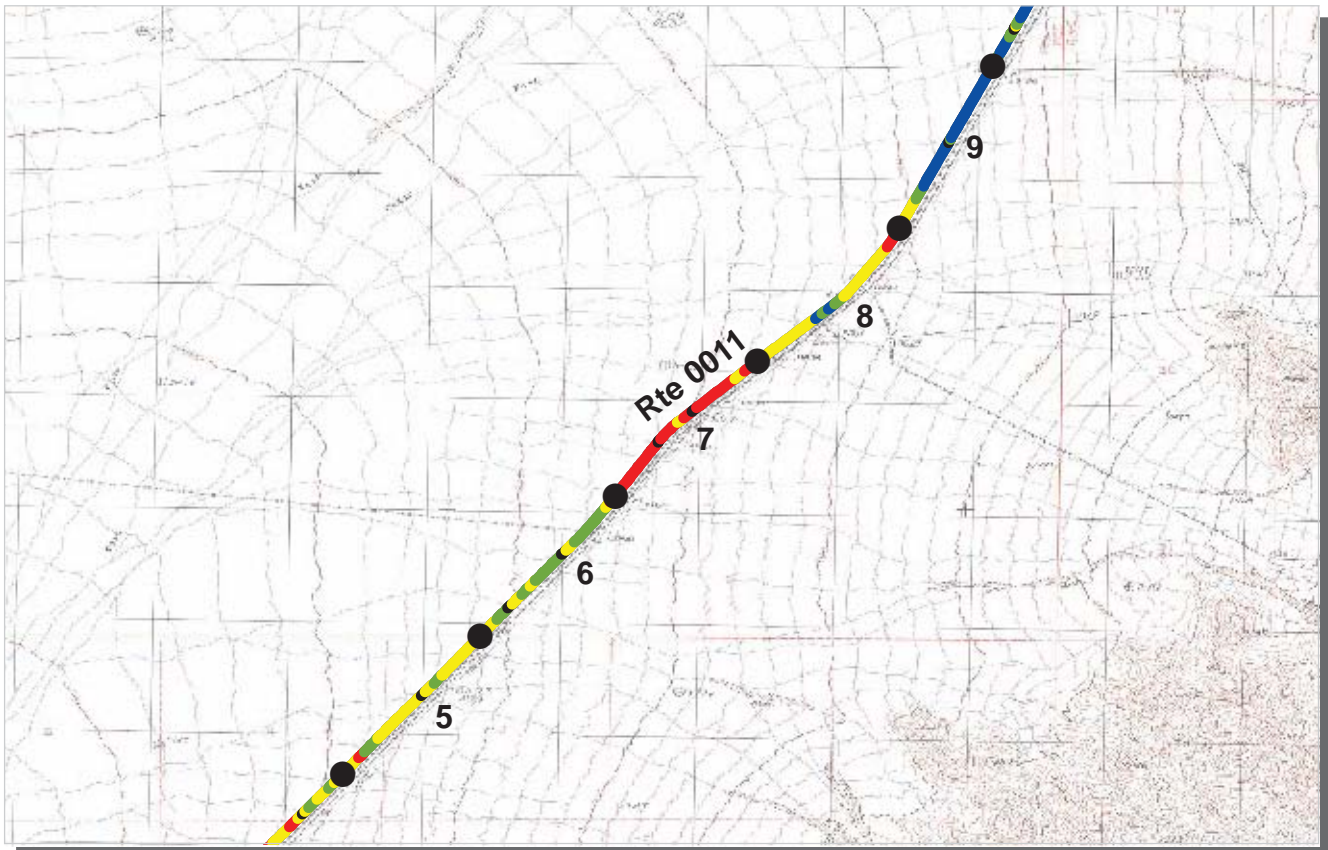
COLLECTED: 4/19/2008
TOTAL LENGTH: 18.96 Miles

PACIFIC WEST REGION

Section Number	0	1	2	3	4
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	1	2	2	2	2
Paved Width (ft)	24	26	26	25	25
Lane Width (ft)	10	10	11	11	11
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
Roadway Condition Information					
SCR (Surface Condition Rating)	1	6	63	81	65
PCR (Pavement Condition Rating)	32	41	73	86	74
Distress Index Values					
Alligator Cracking Index	2	11	97	100	100
Longitudinal Cracking Index	100	99	100	100	94
Transverse Cracking Index	100	99	100	100	93
Patching Index	100	100	100	100	100
Rutting Index	85	85	66	81	79
Roughness Condition Index (RCI)	85	93	89	94	87

ROUTE: 0011 KELSO-CIMA ROAD

NC - Not Collected



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

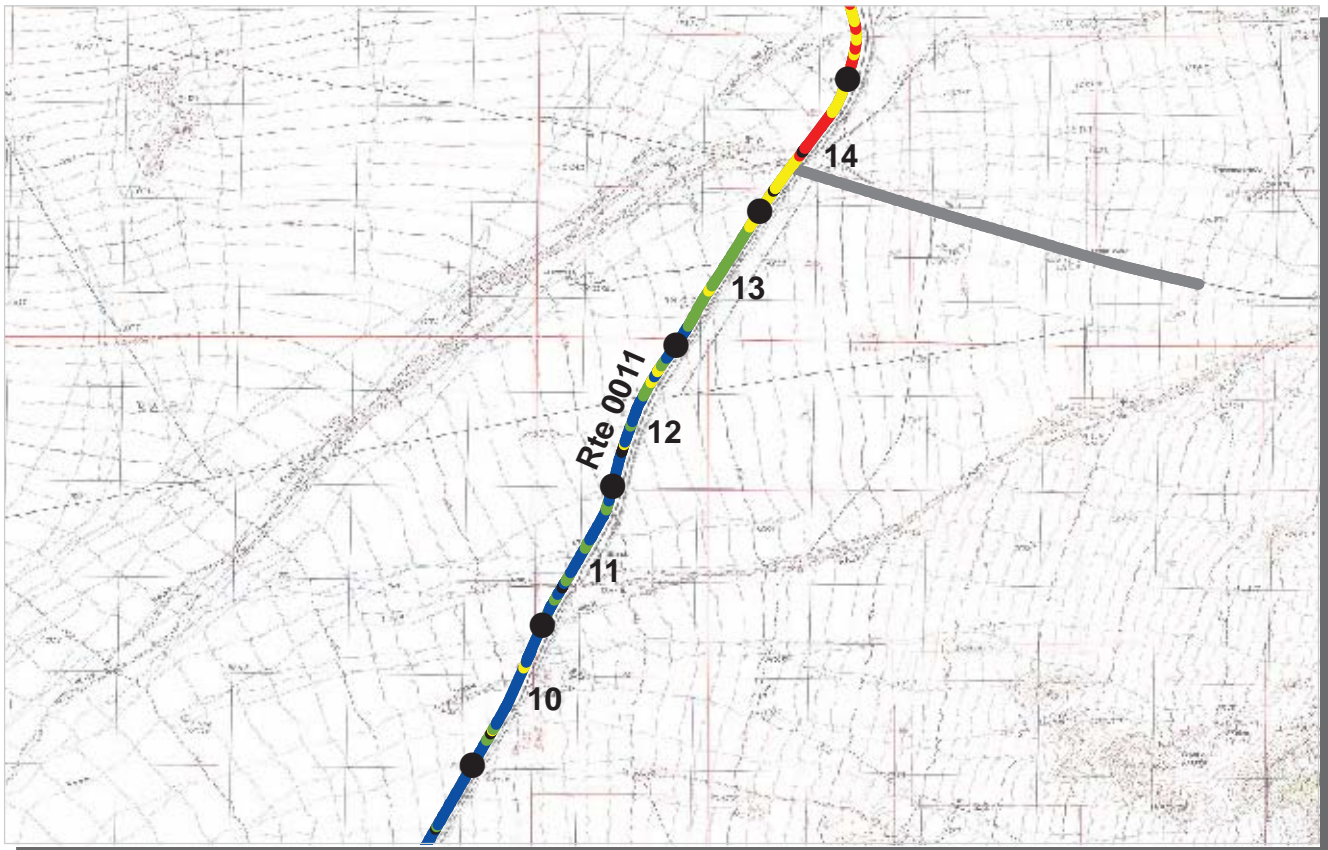
ROUTE: 0011 KELSO-CIMA ROAD
MOJA : MOJAVE NATIONAL PRESERVE

COLLECTED: 4/19/2008
TOTAL LENGTH: 18.96 Miles

PACIFIC WEST REGION

<i>Section Number</i>	5	6	7	8	9
<i>Section Length (mi)</i>	1.00	1.00	1.00	1.00	1.00
<i>Traffic</i>	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<i>Cross Section Information</i>					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	25	25	23	23	23
Lane Width (ft)	10	11	10	10	10
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
<i>Roadway Condition Information</i>					
SCR (Surface Condition Rating)	66	78	25	69	93
PCR (Pavement Condition Rating)	76	84	46	74	95
<i>Distress Index Values</i>					
Alligator Cracking Index	100	100	91	99	100
Longitudinal Cracking Index	95	97	86	98	100
Transverse Cracking Index	94	95	79	97	100
Patching Index	100	100	99	99	100
Rutting Index	78	87	65	74	93
Roughness Condition Index (RCI)	91	92	78	83	98

ROUTE: 0011 KELSO-CIMA ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

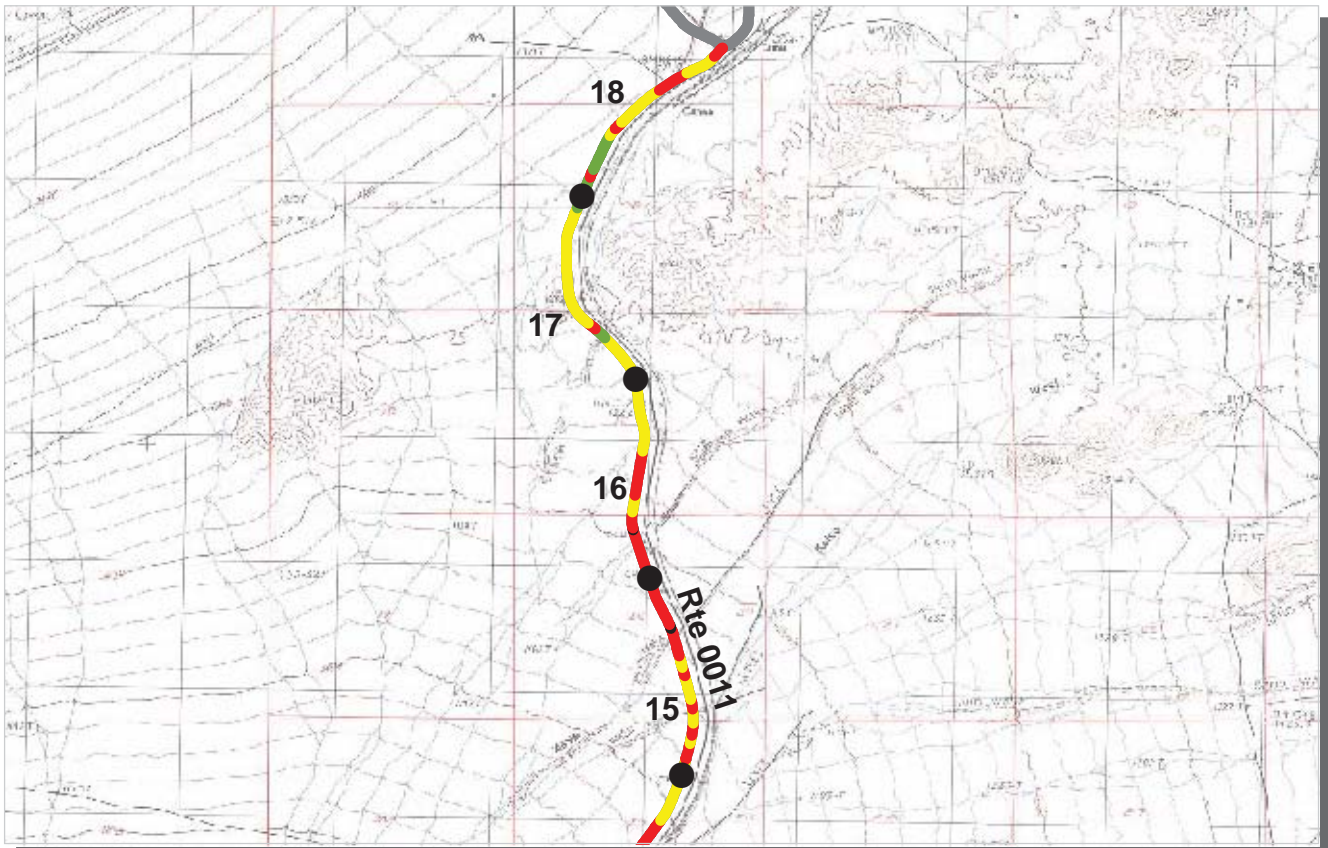
ROUTE: 0011 KELSO-CIMA ROAD
MOJA : MOJAVE NATIONAL PRESERVE

COLLECTED: 4/19/2008
TOTAL LENGTH: 18.96 Miles

PACIFIC WEST REGION

Section Number	10	11	12	13	14
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	23	23	23	24	23
Lane Width (ft)	10	10	10	10	11
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
Roadway Condition Information					
SCR (Surface Condition Rating)	94	94	94	80	50
PCR (Pavement Condition Rating)	95	94	94	87	61
Distress Index Values					
Alligator Cracking Index	100	100	100	100	98
Longitudinal Cracking Index	100	100	100	96	91
Transverse Cracking Index	100	100	100	96	86
Patching Index	100	100	100	100	96
Rutting Index	94	94	95	89	77
Roughness Condition Index (RCI)	96	95	92	96	79

ROUTE: 0011 KELSO-CIMA ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

ROUTE: 0011 KELSO-CIMA ROAD
MOJA : MOJAVE NATIONAL PRESERVE

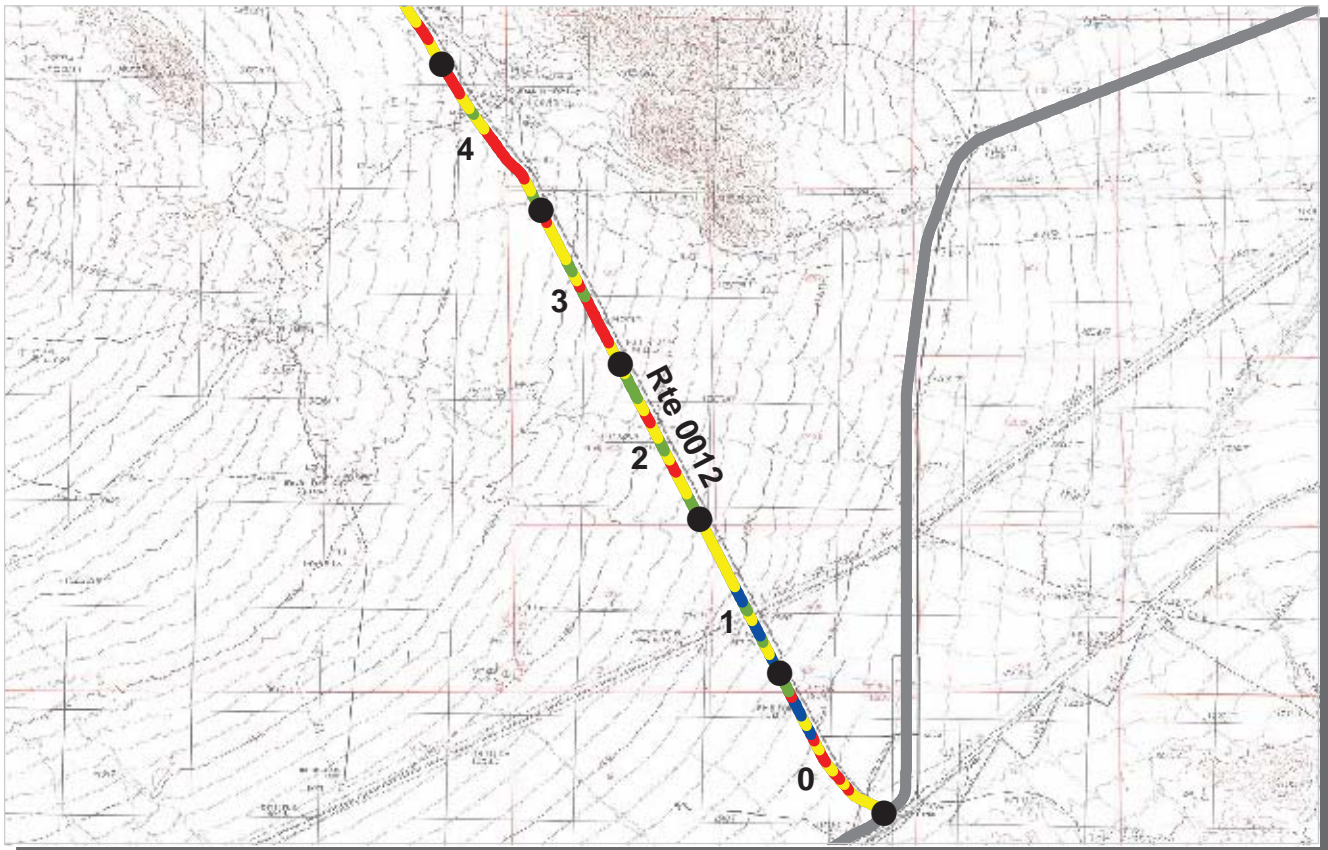
COLLECTED: 4/19/2008
TOTAL LENGTH: 18.96 Miles

PACIFIC WEST REGION

<i>Section Number</i>	15	16	17	18	
<i>Section Length (mi)</i>	1.00	1.00	1.00	0.96	
<i>Traffic</i>	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<i>Cross Section Information</i>					
Number of Lanes	2	2	2	2	
Paved Width (ft)	25	26	25	23	
Lane Width (ft)	10	10	10	10	
Shoulder Width Right (ft)	NC	NC	NC	NC	
Shoulder Width Left (ft)	NC	NC	NC	NC	
<i>Roadway Condition Information</i>					
SCR (Surface Condition Rating)	47	50	68	59	
PCR (Pavement Condition Rating)	54	60	72	61	
<i>Distress Index Values</i>					
Alligator Cracking Index	98	94	99	94	
Longitudinal Cracking Index	92	91	97	96	
Transverse Cracking Index	91	92	99	96	
Patching Index	97	99	99	97	
Rutting Index	69	74	74	76	
Roughness Condition Index (RCI)	64	79	78	70	

ROUTE: 0011 KELSO-CIMA ROAD

NC - Not Collected



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

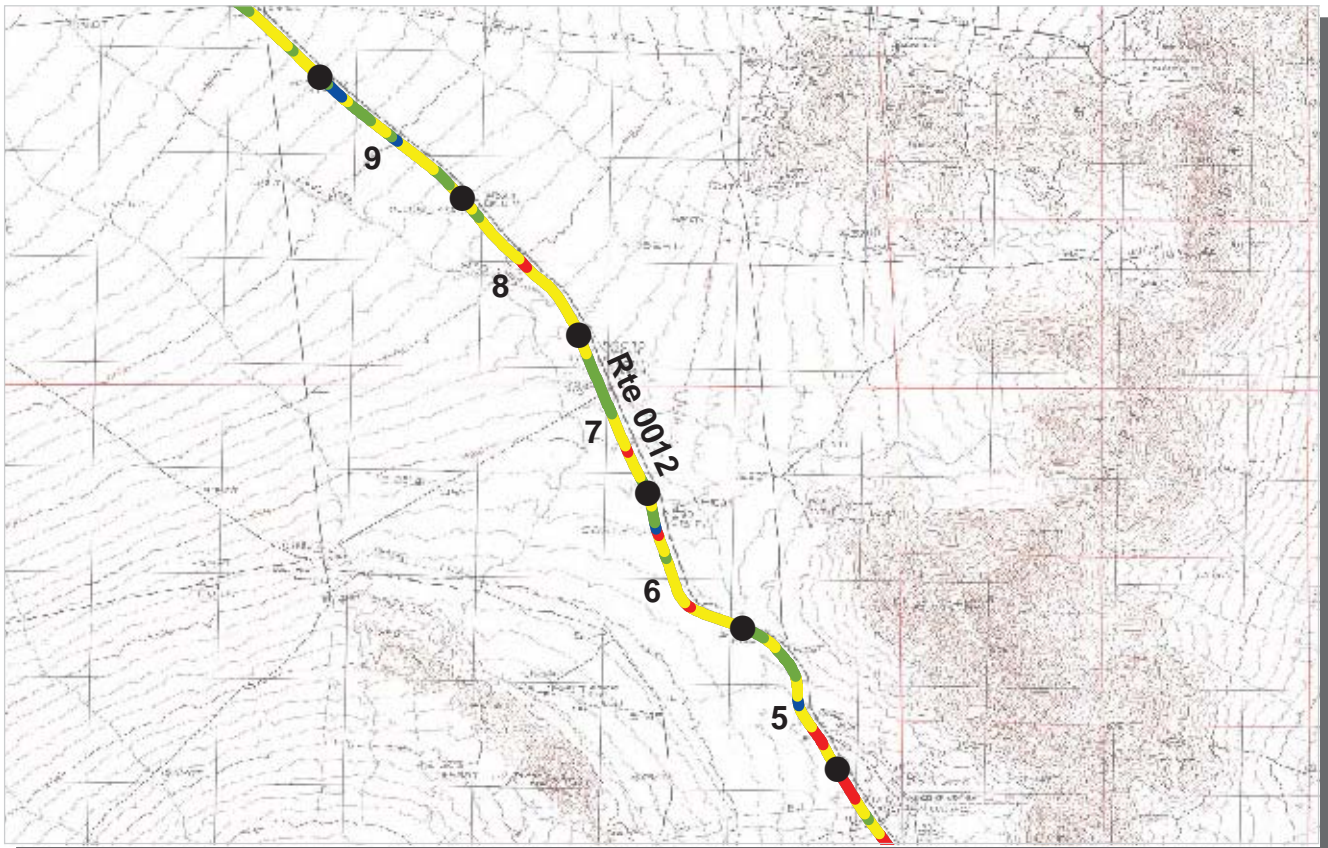
ROUTE: 0012 CIMA ROAD
MOJA : MOJAVE NATIONAL PRESERVE

COLLECTED: 4/21/2008
TOTAL LENGTH: 17.64 Miles

PACIFIC WEST REGION

<i>Section Number</i>	0	1	2	3	4
<i>Section Length (mi)</i>	1.00	1.00	1.00	1.00	1.00
<i>Traffic</i>	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<i>Cross Section Information</i>					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	23	23	25	23	24
Lane Width (ft)	10	10	10	11	10
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
<i>Roadway Condition Information</i>					
SCR (Surface Condition Rating)	56	79	65	45	36
PCR (Pavement Condition Rating)	69	85	75	64	51
<i>Distress Index Values</i>					
Alligator Cracking Index	86	100	92	71	69
Longitudinal Cracking Index	87	96	92	90	92
Transverse Cracking Index	91	96	94	95	90
Patching Index	100	100	97	97	92
Rutting Index	88	87	90	88	85
Roughness Condition Index (RCI)	90	95	92	92	75

ROUTE: 0012 CIMA ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

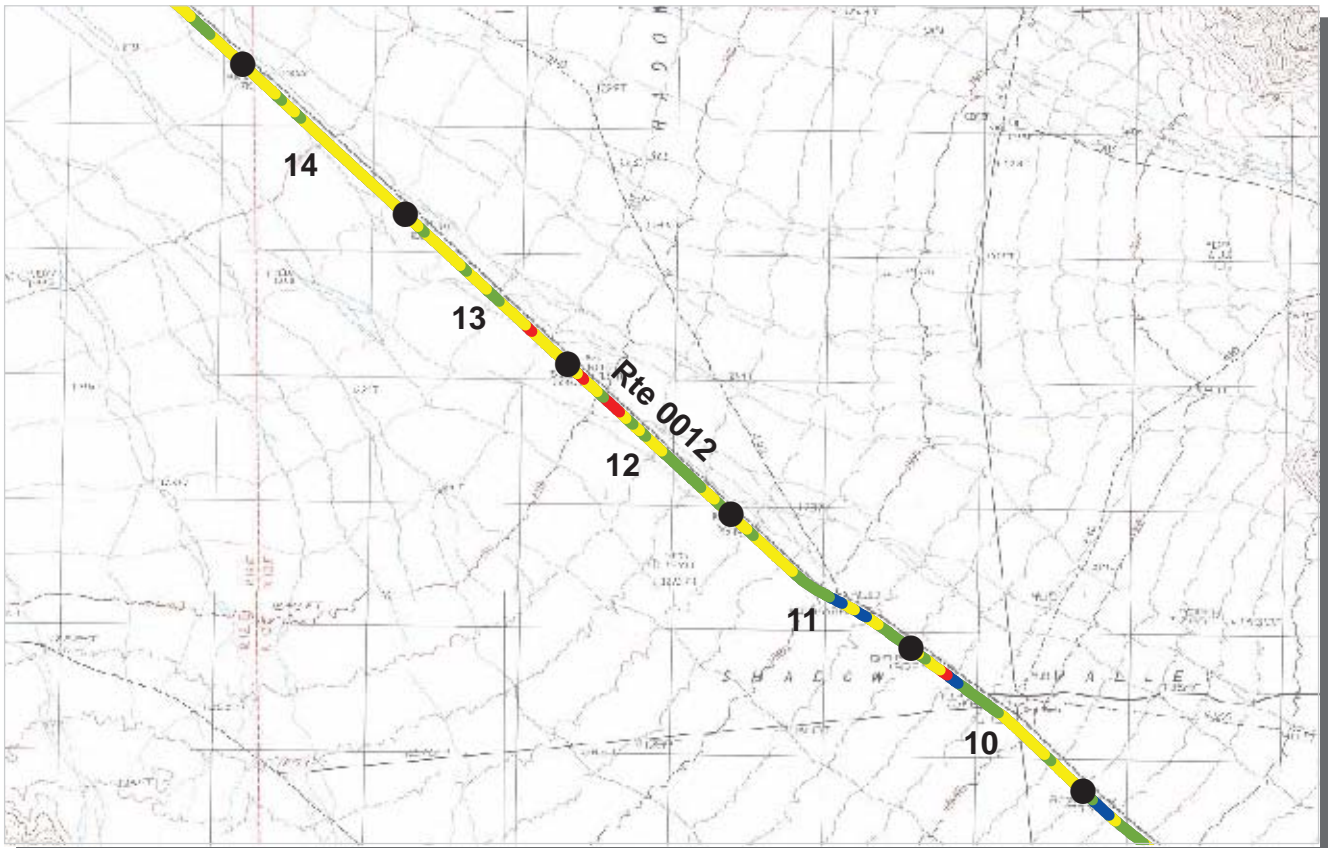
ROUTE: 0012 CIMA ROAD
MOJA : MOJAVE NATIONAL PRESERVE

COLLECTED: 4/21/2008
TOTAL LENGTH: 17.64 Miles

PACIFIC WEST REGION

<i>Section Number</i>	5	6	7	8	9
<i>Section Length (mi)</i>	1.00	1.00	1.00	1.00	1.00
<i>Traffic</i>	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<i>Cross Section Information</i>					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	24	24	23	24	23
Lane Width (ft)	9	10	10	10	10
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
<i>Roadway Condition Information</i>					
SCR (Surface Condition Rating)	66	63	71	53	71
PCR (Pavement Condition Rating)	75	74	81	70	82
<i>Distress Index Values</i>					
Alligator Cracking Index	96	96	100	100	100
Longitudinal Cracking Index	98	98	99	93	95
Transverse Cracking Index	96	98	99	92	97
Patching Index	97	98	98	99	97
Rutting Index	78	72	75	69	81
Roughness Condition Index (RCI)	92	90	96	94	98

ROUTE: 0012 CIMA ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

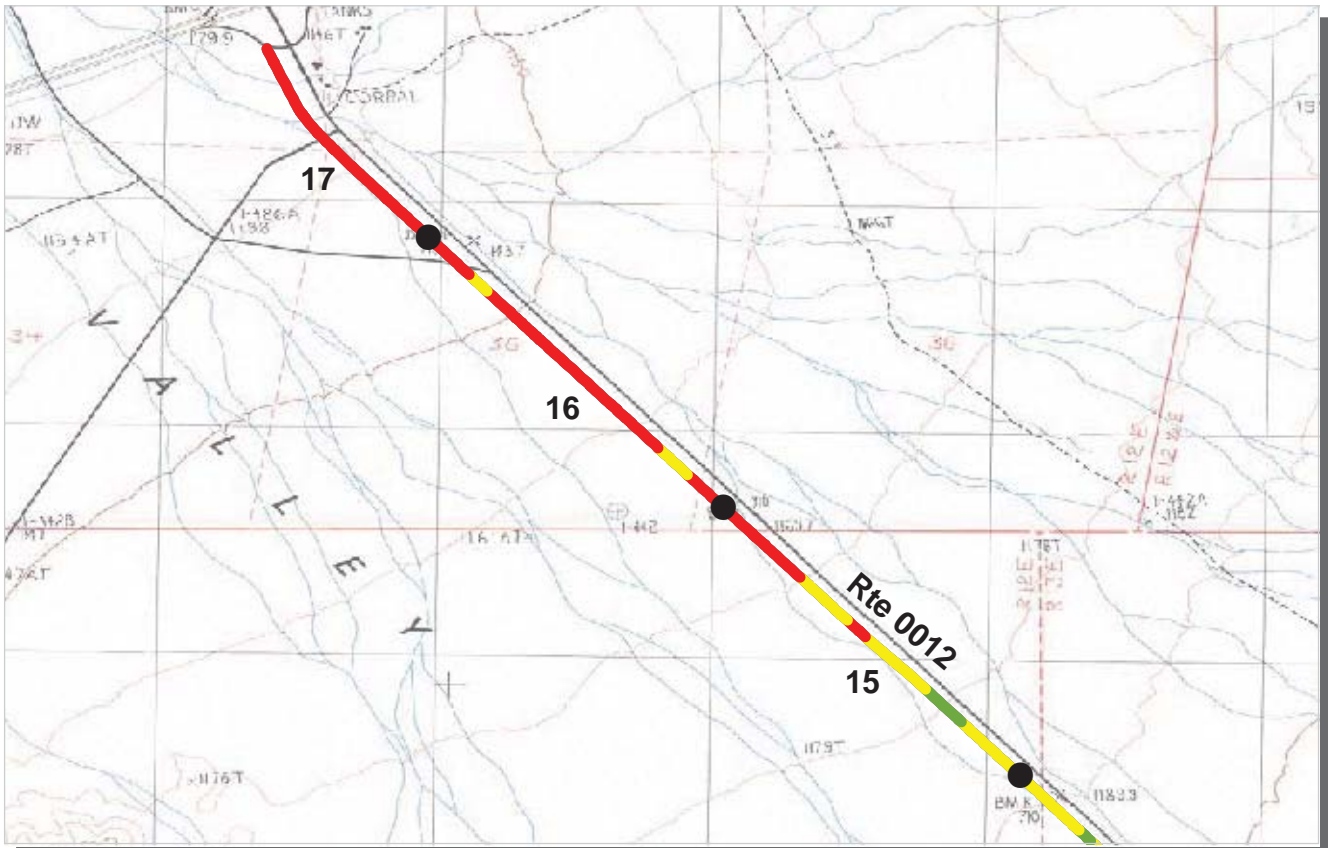
ROUTE: 0012 CIMA ROAD
MOJA : MOJAVE NATIONAL PRESERVE

COLLECTED: 4/21/2008
TOTAL LENGTH: 17.64 Miles

PACIFIC WEST REGION

<i>Section Number</i>	10	11	12	13	14
<i>Section Length (mi)</i>	1.00	1.00	1.00	1.00	1.00
<i>Traffic</i>	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<i>Cross Section Information</i>					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	24	23	23	23	24
Lane Width (ft)	10	11	11	10	10
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
<i>Roadway Condition Information</i>					
SCR (Surface Condition Rating)	75	77	64	64	67
PCR (Pavement Condition Rating)	83	86	76	75	77
<i>Distress Index Values</i>					
Alligator Cracking Index	100	100	100	100	100
Longitudinal Cracking Index	97	97	97	98	100
Transverse Cracking Index	99	98	96	94	95
Patching Index	98	100	98	100	100
Rutting Index	81	81	73	73	73
Roughness Condition Index (RCI)	96	99	93	91	90

ROUTE: 0012 CIMA ROAD



PCR	Poor (<=60)	Fair (61 - 84)	Good (85 - 94)	Excellent (95 - 100)	No Data
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* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

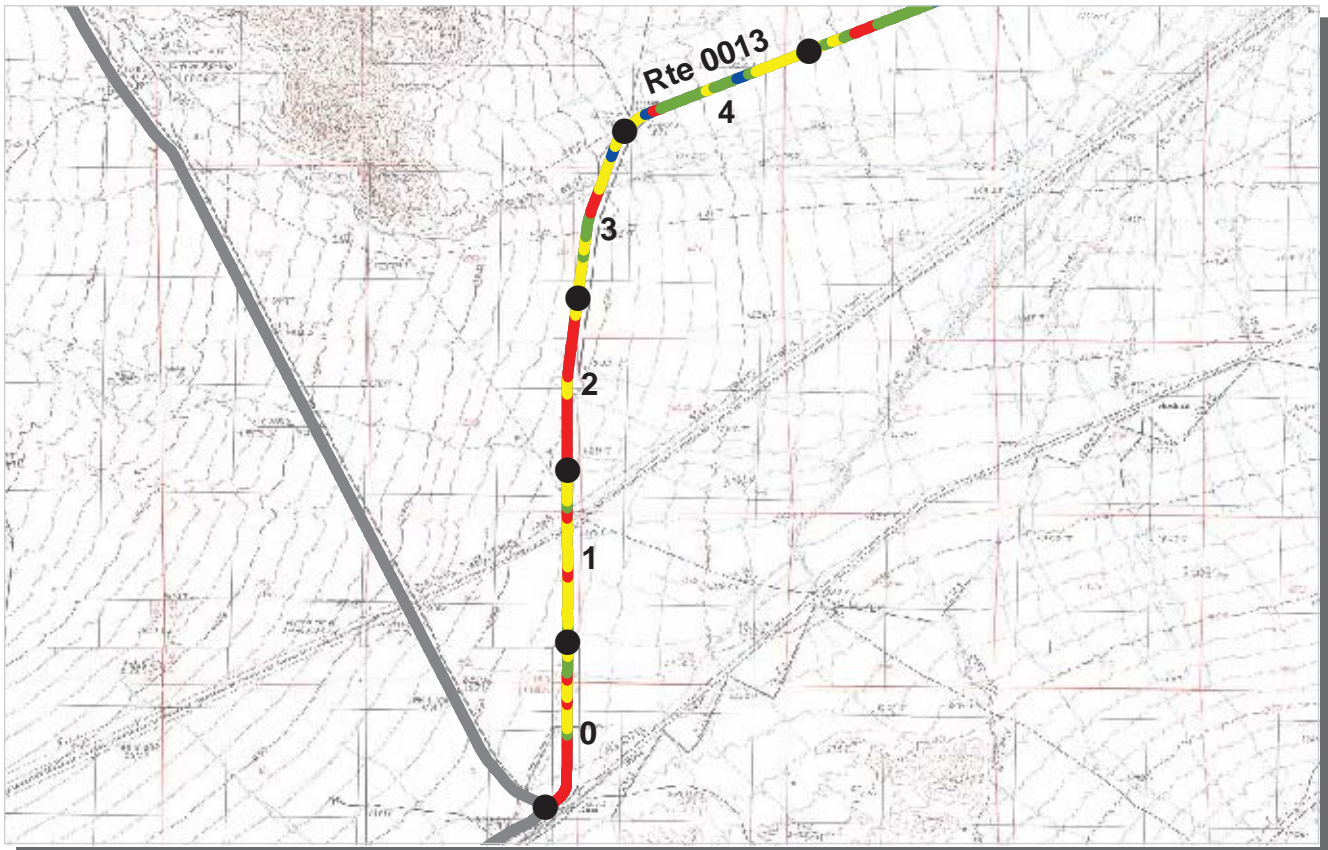
ROUTE: 0012 CIMA ROAD
MOJA : MOJAVE NATIONAL PRESERVE

COLLECTED: 4/21/2008
TOTAL LENGTH: 17.64 Miles

PACIFIC WEST REGION

Section Number	15	16	17		
Section Length (mi)	1.00	1.00	0.64		
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2	2	2		
Paved Width (ft)	22	23	26		
Lane Width (ft)	10	10	10		
Shoulder Width Right (ft)	NC	NC	NC		
Shoulder Width Left (ft)	NC	NC	NC		
Roadway Condition Information					
SCR (Surface Condition Rating)	47	23	14		
PCR (Pavement Condition Rating)	64	50	45		
Distress Index Values					
Alligator Cracking Index	99	97	65		
Longitudinal Cracking Index	92	78	84		
Transverse Cracking Index	85	67	78		
Patching Index	100	100	100		
Rutting Index	71	78	77		
Roughness Condition Index (RCI)	89	91	94		

ROUTE: 0012 CIMA ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

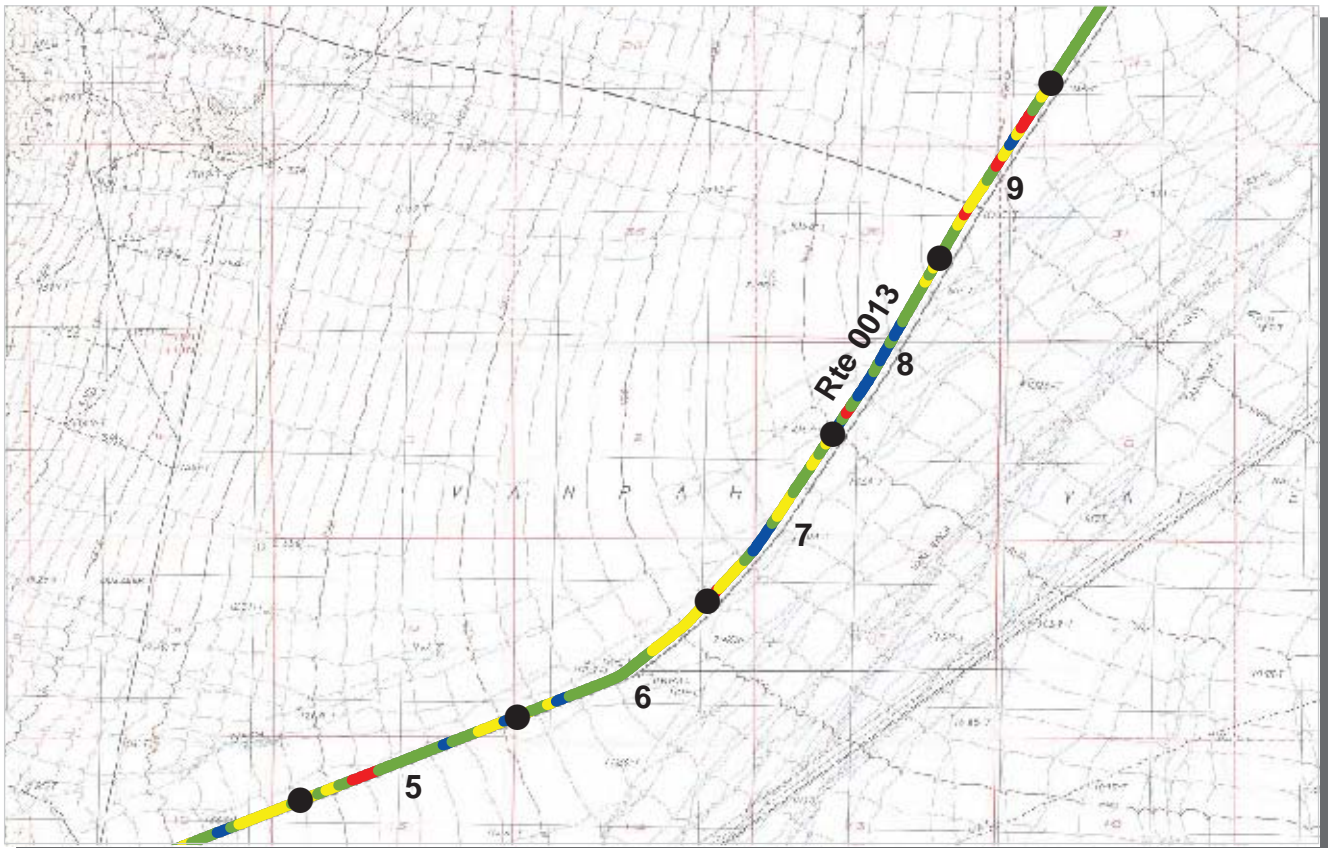
ROUTE: 0013 MORNING STAR MINE ROAD
MOJA : MOJAVE NATIONAL PRESERVE

COLLECTED: 4/19/2008
TOTAL LENGTH: 14.99 Miles

PACIFIC WEST REGION

Section Number	0	1	2	3	4
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	23	24	24	25	25
Lane Width (ft)	10	10	10	10	11
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
Roadway Condition Information					
SCR (Surface Condition Rating)	46	61	22	61	74
PCR (Pavement Condition Rating)	57	70	48	71	83
Distress Index Values					
Alligator Cracking Index	88	92	65	100	97
Longitudinal Cracking Index	90	89	89	95	96
Transverse Cracking Index	88	89	83	89	92
Patching Index	95	98	89	95	100
Rutting Index	80	91	79	78	88
Roughness Condition Index (RCI)	75	86	88	91	96

ROUTE: 0013 MORNING STAR MINE ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

ROUTE: 0013 MORNING STAR MINE ROAD
MOJA : MOJAVE NATIONAL PRESERVE

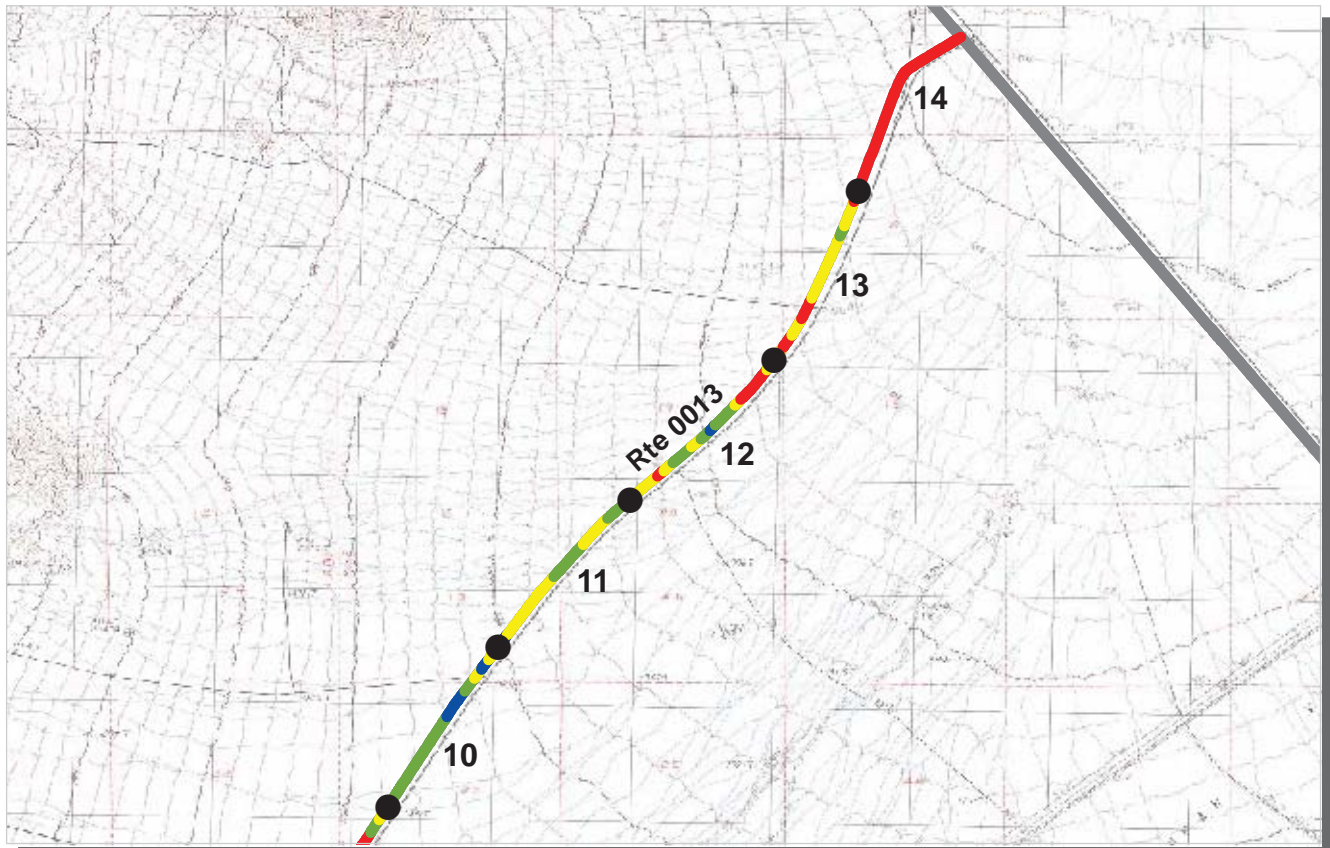
COLLECTED: 4/19/2008
TOTAL LENGTH: 14.99 Miles

PACIFIC WEST REGION

Section Number	5	6	7	8	9
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	25	24	24	22	22
Lane Width (ft)	10	10	10	9	9
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
Roadway Condition Information					
SCR (Surface Condition Rating)	67	74	74	78	60
PCR (Pavement Condition Rating)	80	84	83	86	75
Distress Index Values					
Alligator Cracking Index	87	98	98	93	83
Longitudinal Cracking Index	96	95	95	98	95
Transverse Cracking Index	94	92	95	94	92
Patching Index	100	100	97	100	99
Rutting Index	90	88	90	92	89
Roughness Condition Index (RCI)	99	100	95	100	97

ROUTE: 0013 MORNING STAR MINE ROAD

NC - Not Collected



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

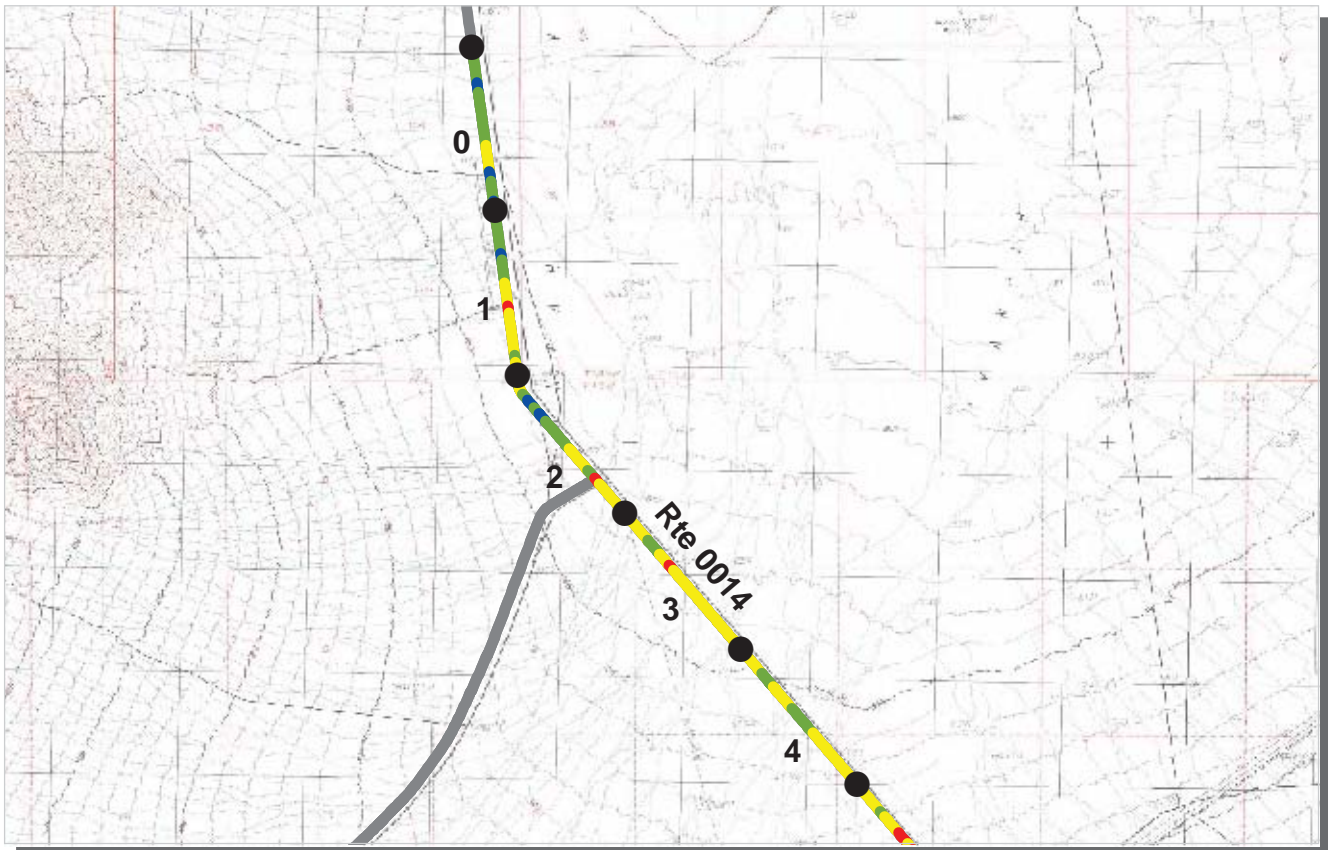
ROUTE: 0013 MORNING STAR MINE ROAD
MOJA : MOJAVE NATIONAL PRESERVE

COLLECTED: 4/19/2008
TOTAL LENGTH: 14.99 Miles

PACIFIC WEST REGION

Section Number	10	11	12	13	14
Section Length (mi)	1.00	1.00	1.00	1.00	0.99
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	23	24	22	22	23
Lane Width (ft)	10	10	9	10	10
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
Roadway Condition Information					
SCR (Surface Condition Rating)	84	70	61	48	17
PCR (Pavement Condition Rating)	90	80	73	68	44
Distress Index Values					
Alligator Cracking Index	99	99	94	82	56
Longitudinal Cracking Index	99	97	96	87	79
Transverse Cracking Index	94	90	89	83	77
Patching Index	100	99	99	100	100
Rutting Index	92	85	82	94	89
Roughness Condition Index (RCI)	98	95	98	98	89

ROUTE: 0013 MORNING STAR MINE ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

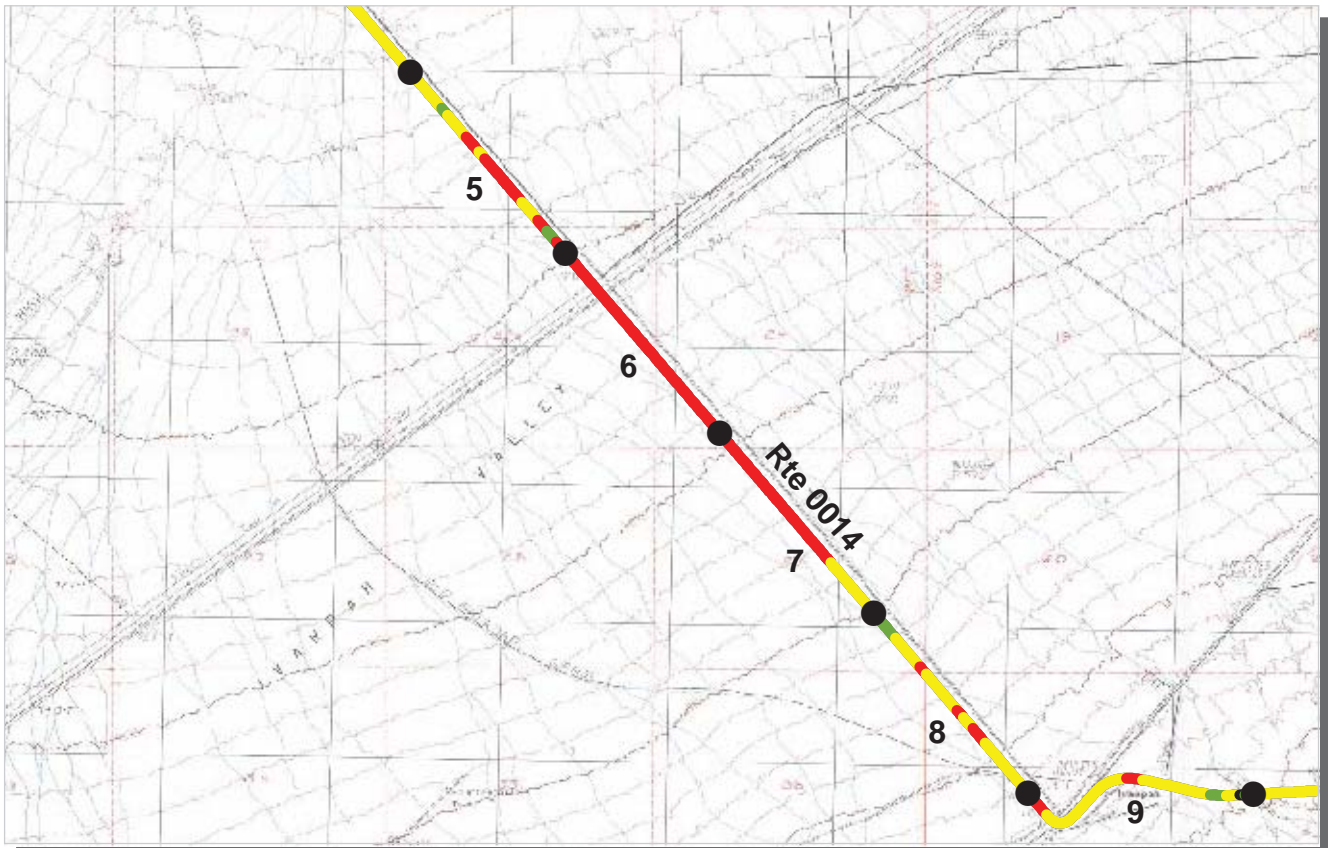
ROUTE: 0014 IVANPAH ROAD
MOJA : MOJAVE NATIONAL PRESERVE

COLLECTED: 4/21/2008
TOTAL LENGTH: 11.57 Miles

PACIFIC WEST REGION

<i>Section Number</i>	0	1	2	3	4
<i>Section Length (mi)</i>	1.00	1.00	1.00	1.00	1.00
<i>Traffic</i>	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<i>Cross Section Information</i>					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	23	23	24	24	24
Lane Width (ft)	10	10	10	10	10
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
<i>Roadway Condition Information</i>					
SCR (Surface Condition Rating)	78	73	74	62	69
PCR (Pavement Condition Rating)	86	82	84	76	80
<i>Distress Index Values</i>					
Alligator Cracking Index	100	100	100	99	100
Longitudinal Cracking Index	95	93	92	88	91
Transverse Cracking Index	88	88	85	80	82
Patching Index	100	100	100	100	100
Rutting Index	95	92	97	95	97
Roughness Condition Index (RCI)	100	100	99	99	99

ROUTE: 0014 IVANPAH ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

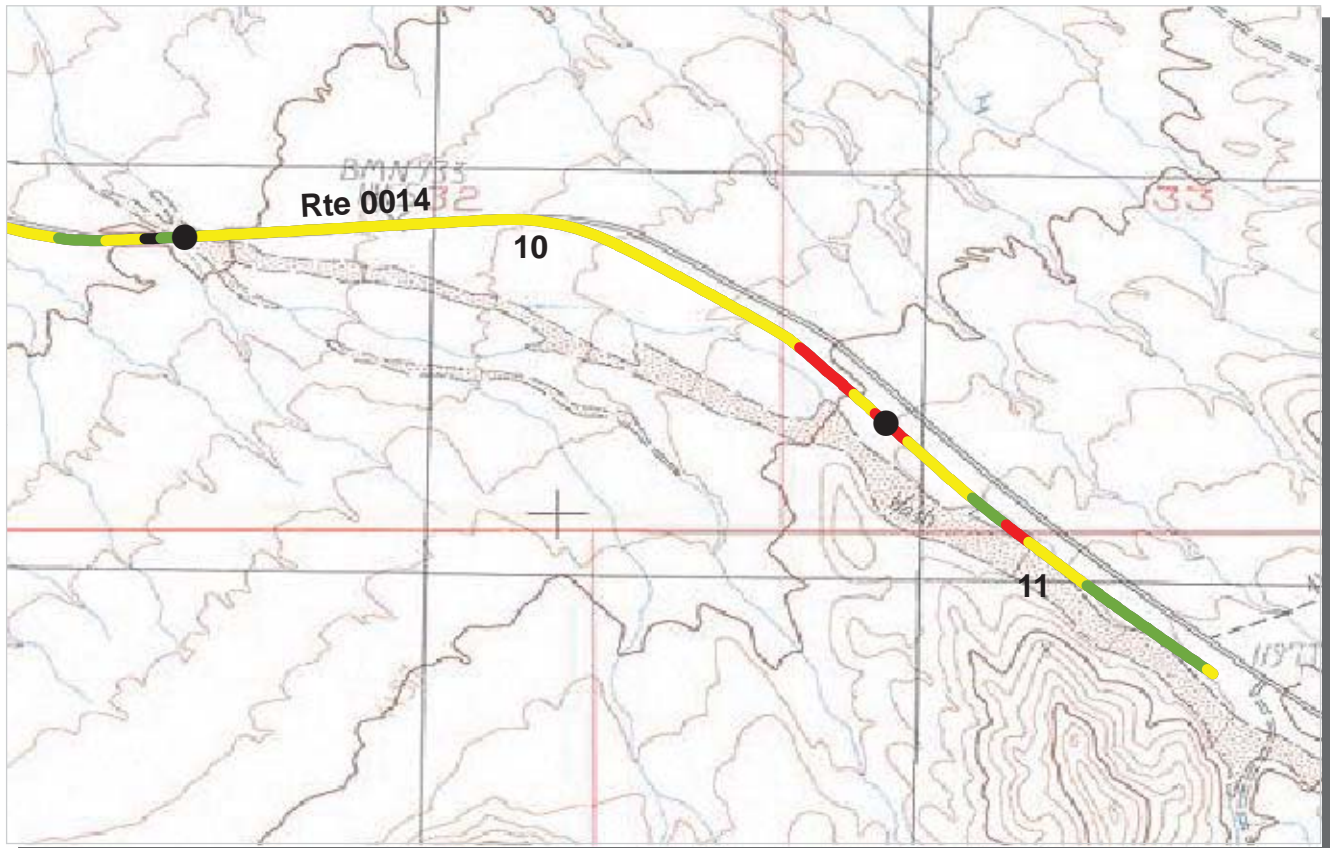
ROUTE: 0014 IVANPAH ROAD
MOJA : MOJAVE NATIONAL PRESERVE

COLLECTED: 4/21/2008
TOTAL LENGTH: 11.57 Miles

PACIFIC WEST REGION

<i>Section Number</i>	5	6	7	8	9
<i>Section Length (mi)</i>	1.00	1.00	1.00	1.00	1.00
<i>Traffic</i>	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<i>Cross Section Information</i>					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	22	21	22	22	22
Lane Width (ft)	10	9	9	9	9
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
<i>Roadway Condition Information</i>					
SCR (Surface Condition Rating)	38	3	21	54	59
PCR (Pavement Condition Rating)	56	26	39	70	68
<i>Distress Index Values</i>					
Alligator Cracking Index	73	9	34	99	97
Longitudinal Cracking Index	89	94	95	90	94
Transverse Cracking Index	79	89	91	85	93
Patching Index	97	93	95	100	100
Rutting Index	88	80	82	80	74
Roughness Condition Index (RCI)	89	74	73	95	85

ROUTE: 0014 IVANPAH ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

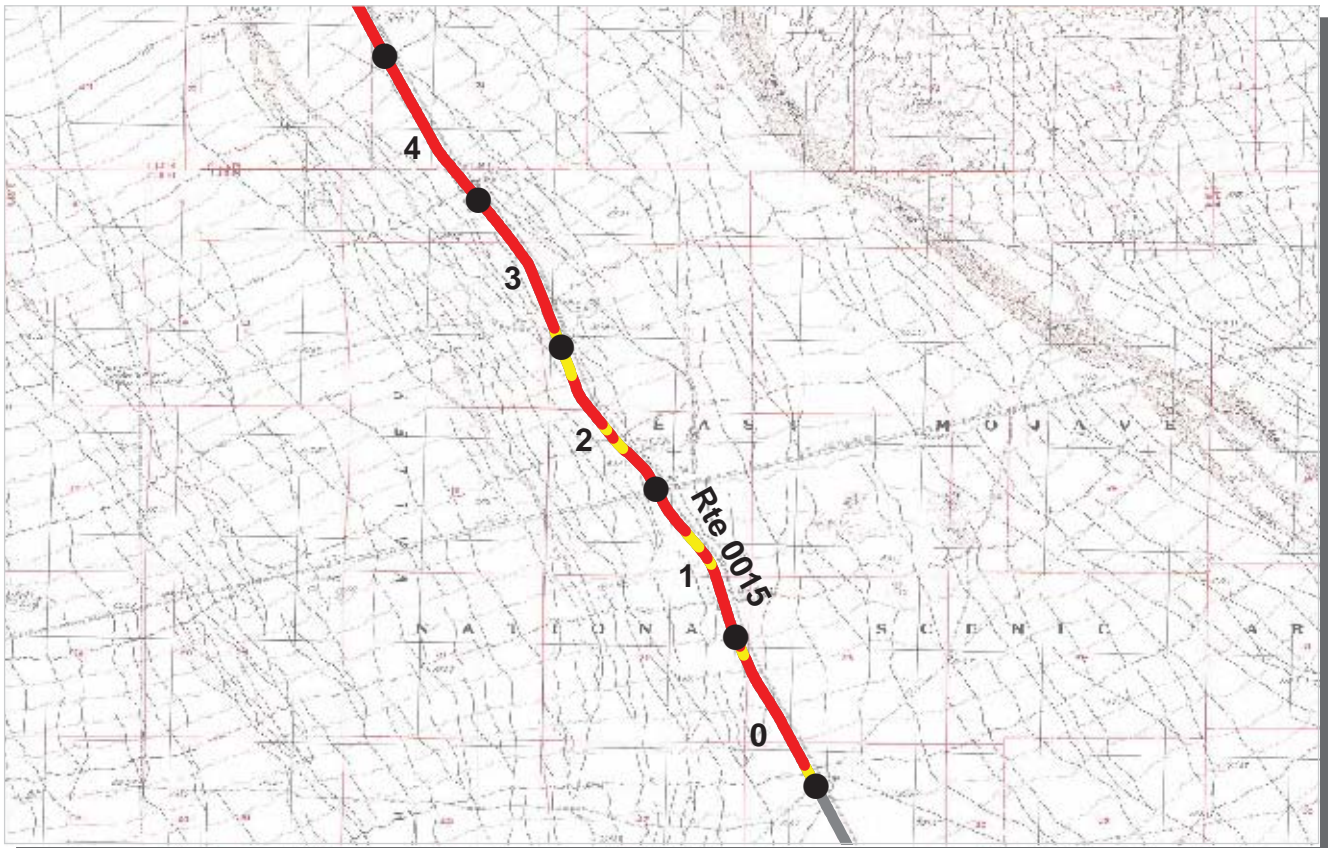
ROUTE: 0014 IVANPAH ROAD
MOJA : MOJAVE NATIONAL PRESERVE

COLLECTED: 4/21/2008
TOTAL LENGTH: 11.57 Miles

PACIFIC WEST REGION

Section Number	10	11			
Section Length (mi)	1.00	0.57			
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2	2			
Paved Width (ft)	21	20			
Lane Width (ft)	9	9			
Shoulder Width Right (ft)	NC	NC			
Shoulder Width Left (ft)	NC	NC			
Roadway Condition Information					
SCR (Surface Condition Rating)	56	61			
PCR (Pavement Condition Rating)	70	75			
Distress Index Values					
Alligator Cracking Index	97	95			
Longitudinal Cracking Index	89	91			
Transverse Cracking Index	92	92			
Patching Index	100	100			
Rutting Index	77	81			
Roughness Condition Index (RCI)	92	96			

ROUTE: 0014 IVANPAH ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

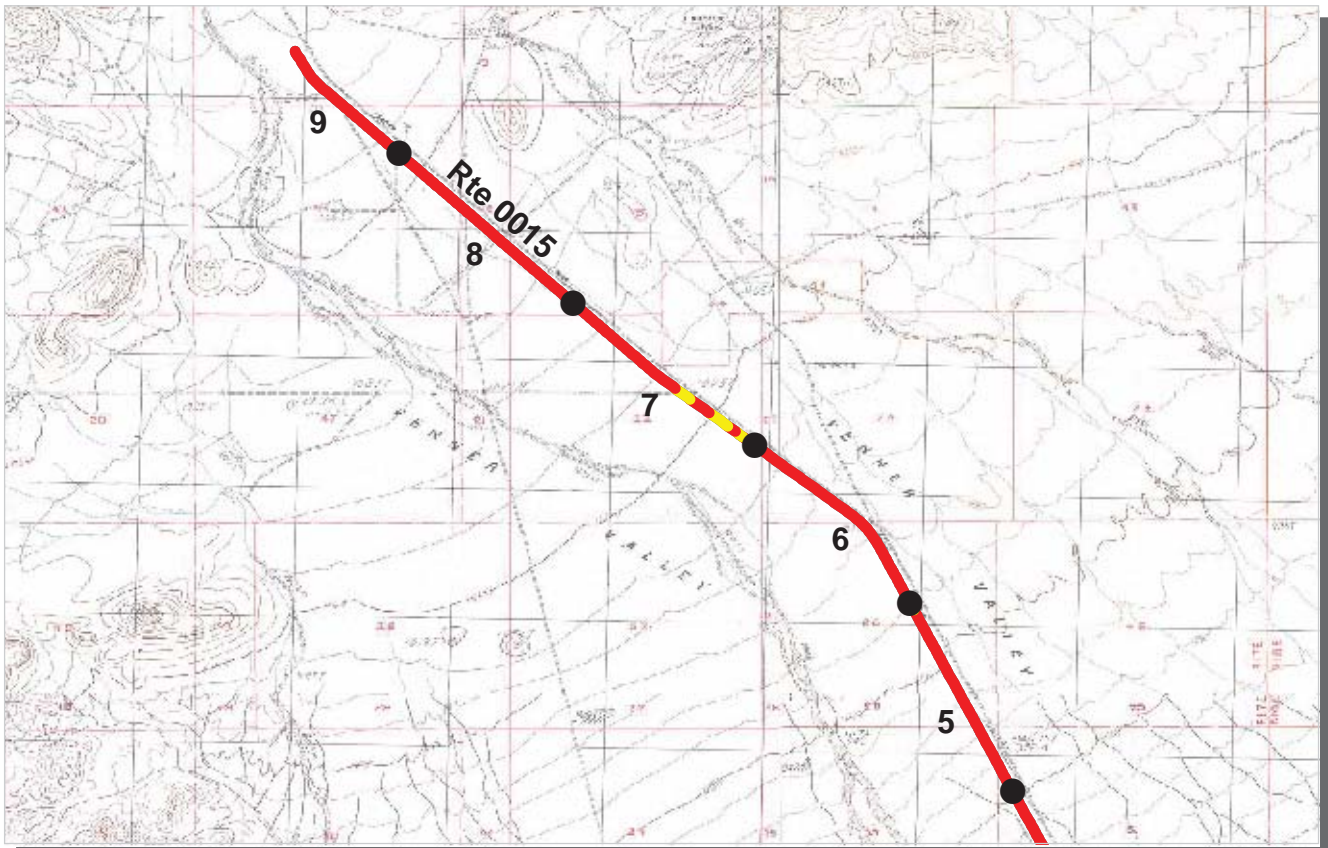
ROUTE: 0015 LANFAIR ROAD
MOJA : MOJAVE NATIONAL PRESERVE

COLLECTED: 4/19/2008
TOTAL LENGTH: 9.65 Miles

PACIFIC WEST REGION

<i>Section Number</i>	0	1	2	3	4
<i>Section Length (mi)</i>	1.00	1.00	1.00	1.00	1.00
<i>Traffic</i>	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<i>Cross Section Information</i>					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	24	26	25	26	25
Lane Width (ft)	11	12	12	12	12
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
<i>Roadway Condition Information</i>					
SCR (Surface Condition Rating)	24	24	34	19	16
PCR (Pavement Condition Rating)	52	49	56	41	37
<i>Distress Index Values</i>					
Alligator Cracking Index	73	84	98	96	97
Longitudinal Cracking Index	85	84	86	86	89
Transverse Cracking Index	80	75	77	77	74
Patching Index	99	98	98	85	98
Rutting Index	76	76	73	54	50
Roughness Condition Index (RCI)	95	85	89	74	74

ROUTE: 0015 LANFAIR ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

ROUTE: 0015 LANFAIR ROAD
MOJA : MOJAVE NATIONAL PRESERVE

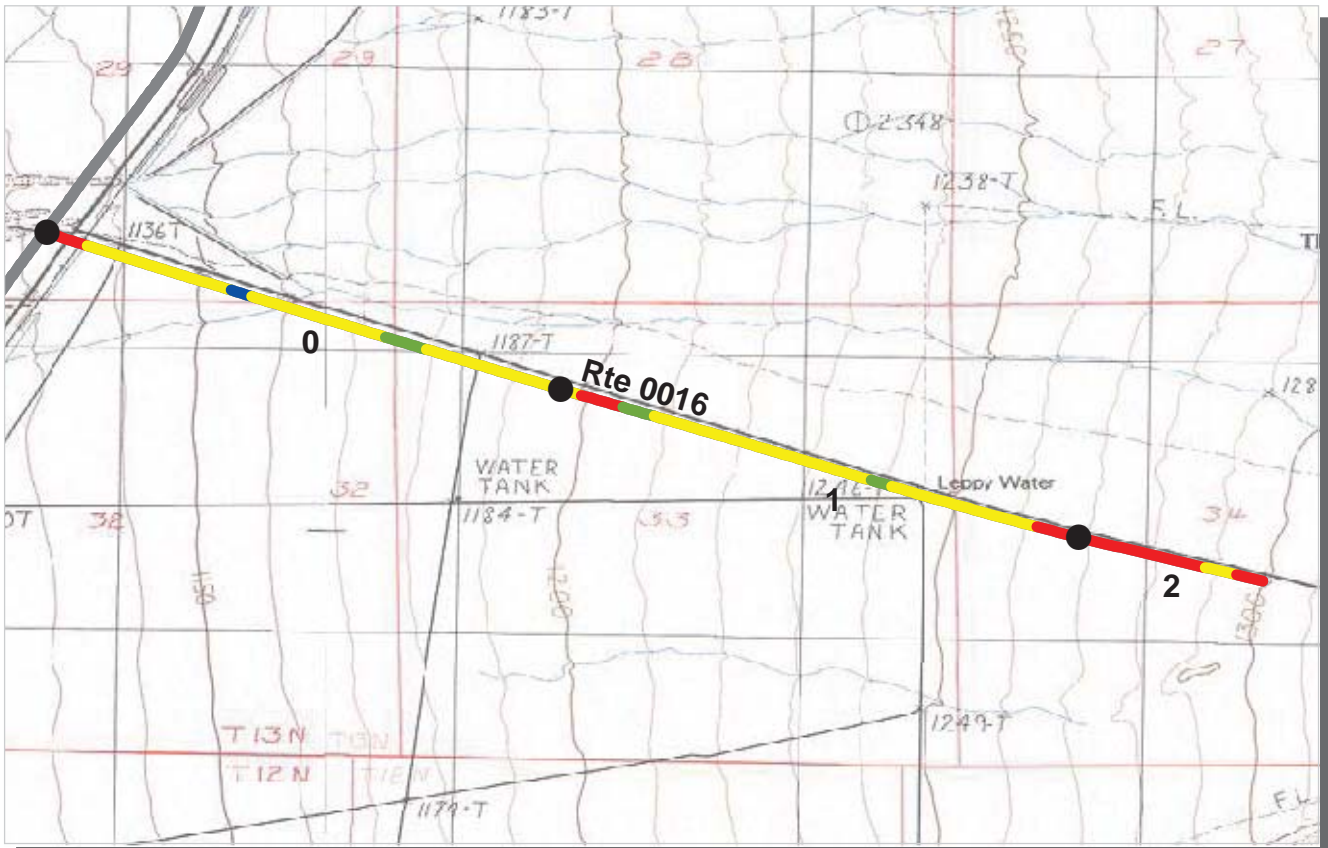
COLLECTED: 4/19/2008
TOTAL LENGTH: 9.65 Miles

PACIFIC WEST REGION

<i>Section Number</i>	5	6	7	8	9
<i>Section Length (mi)</i>	1.00	1.00	1.00	1.00	0.65
<i>Traffic</i>	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<i>Cross Section Information</i>					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	25	26	26	25	27
Lane Width (ft)	12	12	12	12	13
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
<i>Roadway Condition Information</i>					
SCR (Surface Condition Rating)	16	18	21	9	9
PCR (Pavement Condition Rating)	46	46	47	33	33
<i>Distress Index Values</i>					
Alligator Cracking Index	93	98	97	81	60
Longitudinal Cracking Index	83	83	76	79	86
Transverse Cracking Index	72	75	66	75	83
Patching Index	100	99	99	100	100
Rutting Index	59	61	70	52	42
Roughness Condition Index (RCI)	91	87	89	69	71

ROUTE: 0015 LANFAIR ROAD

NC - Not Collected



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

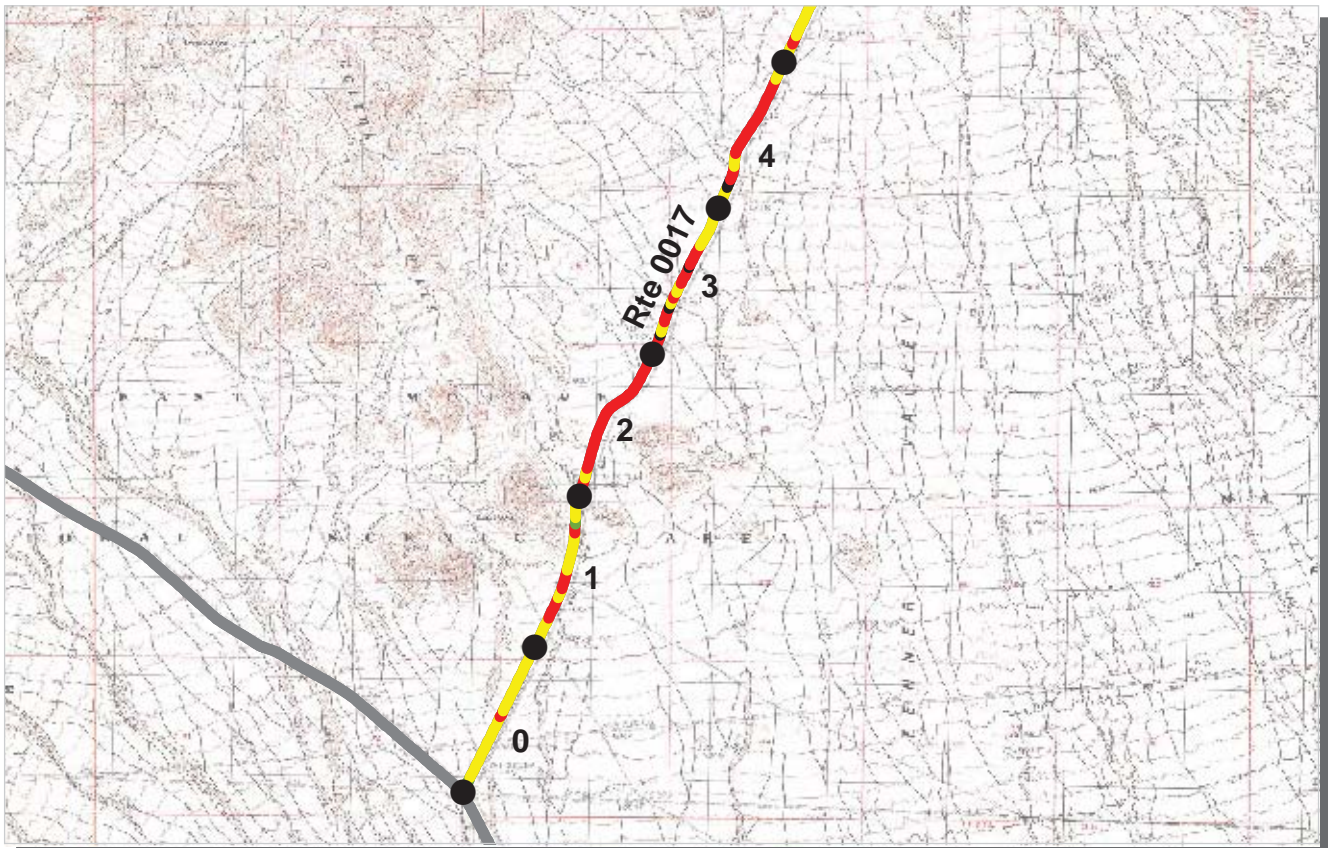
ROUTE: 0016 CEDAR CANYON ROAD
MOJA : MOJAVE NATIONAL PRESERVE

COLLECTED: 4/21/2008
TOTAL LENGTH: 2.35 Miles

PACIFIC WEST REGION

Section Number	0	1	2		
Section Length (mi)	1.00	1.00	0.35		
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	1	2	2		
Paved Width (ft)	25	24	22		
Lane Width (ft)	13	12	11		
Shoulder Width Right (ft)	NC	NC	NC		
Shoulder Width Left (ft)	NC	NC	NC		
Roadway Condition Information					
SCR (Surface Condition Rating)	67	54	35		
PCR (Pavement Condition Rating)	73	65	51		
Distress Index Values					
Alligator Cracking Index	100	100	100		
Longitudinal Cracking Index	98	97	96		
Transverse Cracking Index	97	96	93		
Patching Index	100	98	100		
Rutting Index	73	63	46		
Roughness Condition Index (RCI)	83	85	80		

ROUTE: 0016 CEDAR CANYON ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

ROUTE: 0017 BLACK CANYON ROAD
MOJA : MOJAVE NATIONAL PRESERVE

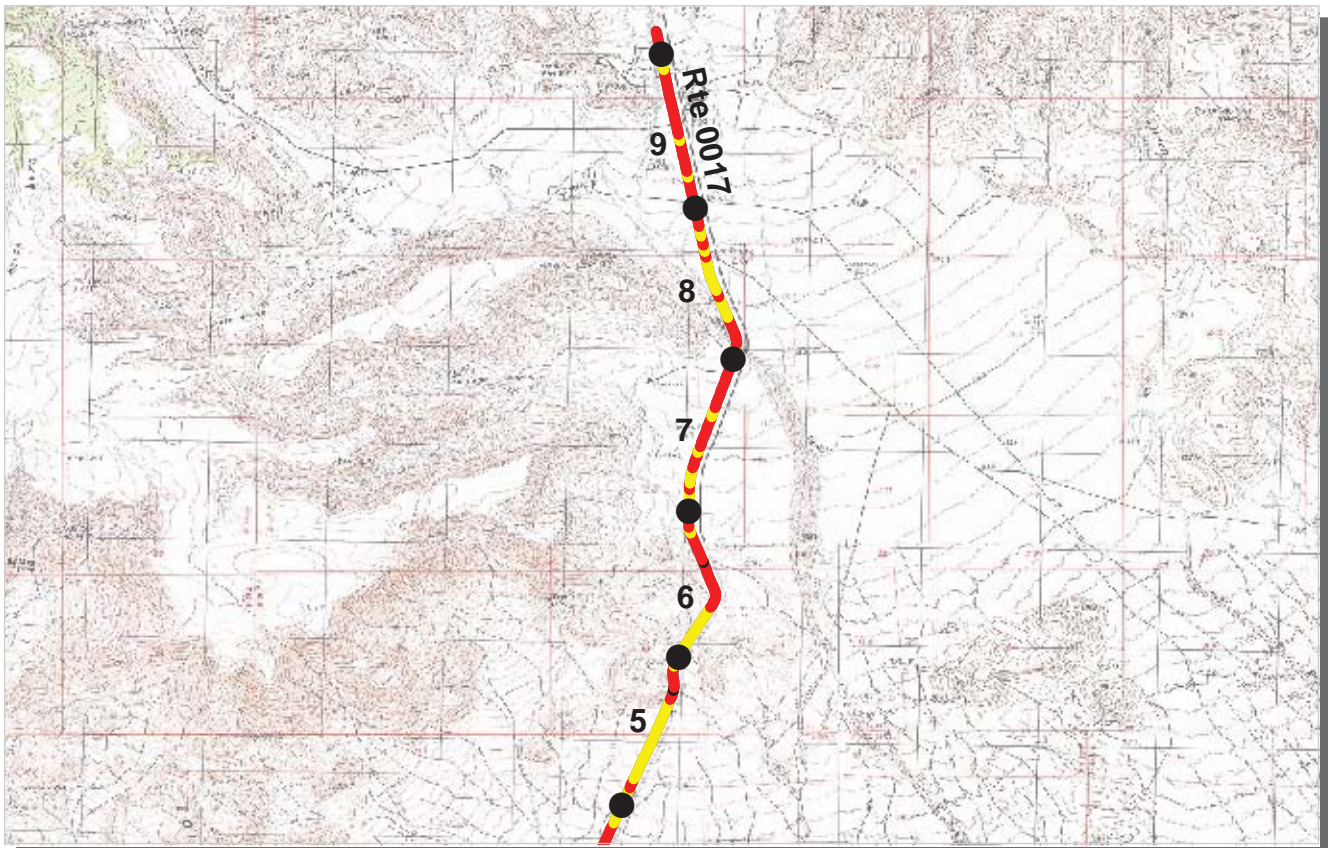
COLLECTED: 4/19/2008
TOTAL LENGTH: 10.15 Miles

PACIFIC WEST REGION

<i>Section Number</i>	0	1	2	3	4
<i>Section Length (mi)</i>	1.00	1.00	1.00	1.00	1.00
<i>Traffic</i>	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<i>Cross Section Information</i>					
Number of Lanes	1	2	2	2	2
Paved Width (ft)	25	26	27	27	28
Lane Width (ft)	11	10	10	10	10
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
<i>Roadway Condition Information</i>					
SCR (Surface Condition Rating)	61	57	32	37	39
PCR (Pavement Condition Rating)	72	69	51	54	56
<i>Distress Index Values</i>					
Alligator Cracking Index	98	100	99	99	94
Longitudinal Cracking Index	97	94	86	85	89
Transverse Cracking Index	97	96	85	87	89
Patching Index	100	100	100	100	100
Rutting Index	70	68	61	66	65
Roughness Condition Index (RCI)	90	86	81	80	82

ROUTE: 0017 BLACK CANYON ROAD

NC - Not Collected



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

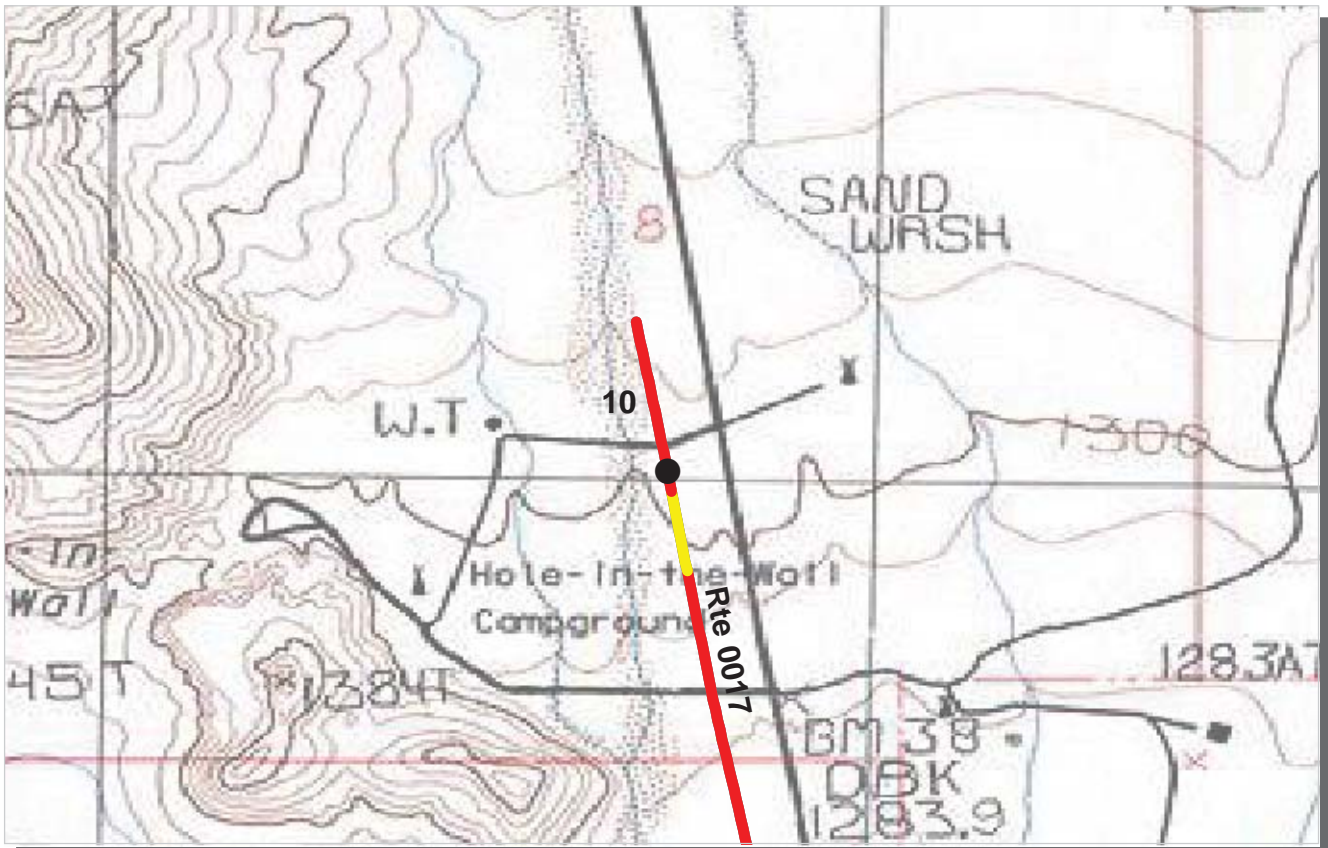
ROUTE: 0017 BLACK CANYON ROAD
MOJA : MOJAVE NATIONAL PRESERVE

COLLECTED: 4/19/2008
TOTAL LENGTH: 10.15 Miles

PACIFIC WEST REGION

<i>Section Number</i>	5	6	7	8	9
<i>Section Length (mi)</i>	1.00	1.00	1.00	1.00	1.00
<i>Traffic</i>	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<i>Cross Section Information</i>					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	28	29	28	26	26
Lane Width (ft)	10	10	11	10	10
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
<i>Roadway Condition Information</i>					
SCR (Surface Condition Rating)	51	43	32	28	36
PCR (Pavement Condition Rating)	67	60	54	53	54
<i>Distress Index Values</i>					
Alligator Cracking Index	99	99	97	90	96
Longitudinal Cracking Index	91	87	83	86	90
Transverse Cracking Index	92	92	84	81	84
Patching Index	100	100	100	100	100
Rutting Index	69	65	68	69	65
Roughness Condition Index (RCI)	92	85	87	90	82

ROUTE: 0017 BLACK CANYON ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

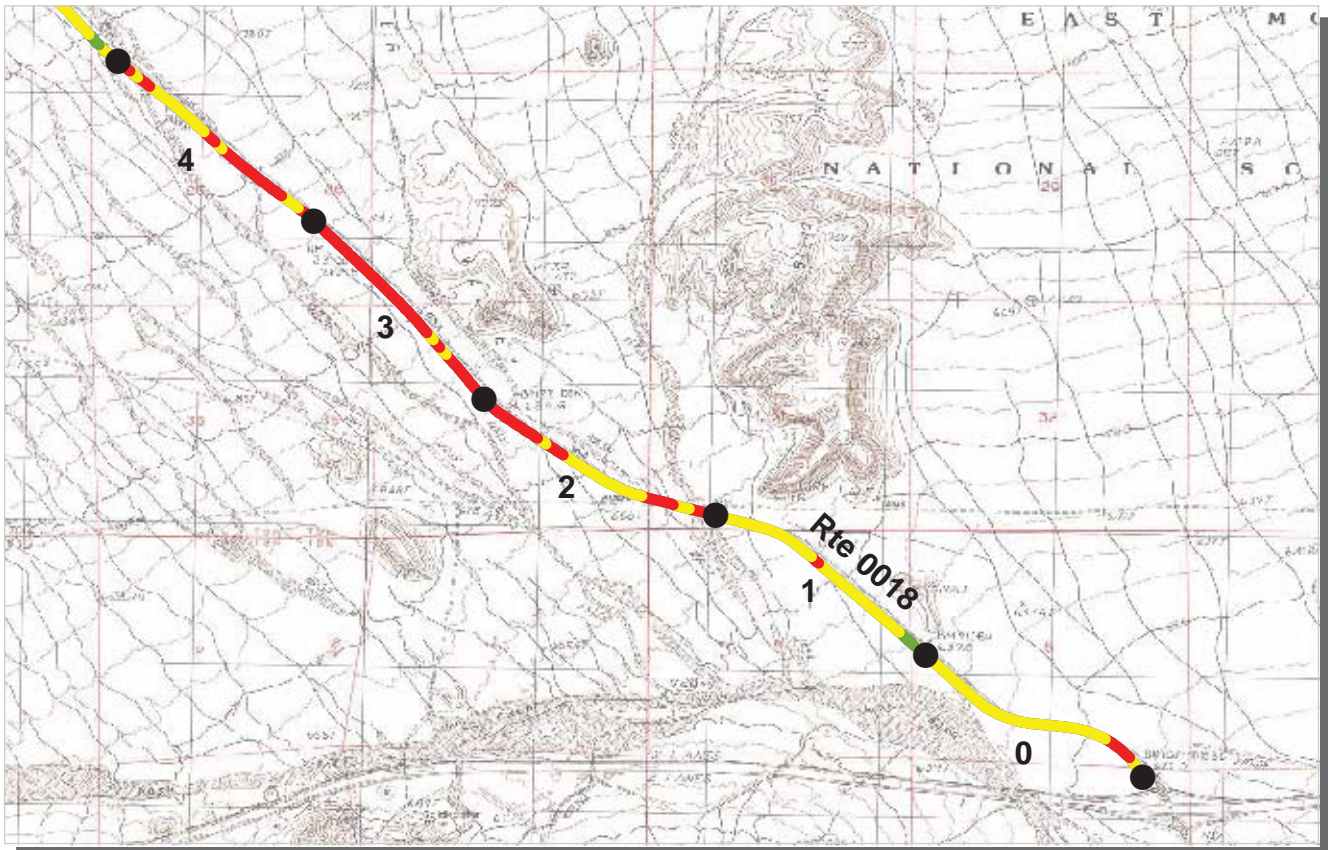
ROUTE: 0017 BLACK CANYON ROAD
MOJA : MOJAVE NATIONAL PRESERVE

COLLECTED: 4/19/2008
TOTAL LENGTH: 10.15 Miles

PACIFIC WEST REGION

Section Number	10				
Section Length (mi)	0.15				
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	26				
Lane Width (ft)	10				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	16				
PCR (Pavement Condition Rating)	42				
Distress Index Values					
Alligator Cracking Index	90				
Longitudinal Cracking Index	90				
Transverse Cracking Index	45				
Patching Index	99				
Rutting Index	85				
Roughness Condition Index (RCI)	88				

ROUTE: 0017 BLACK CANYON ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

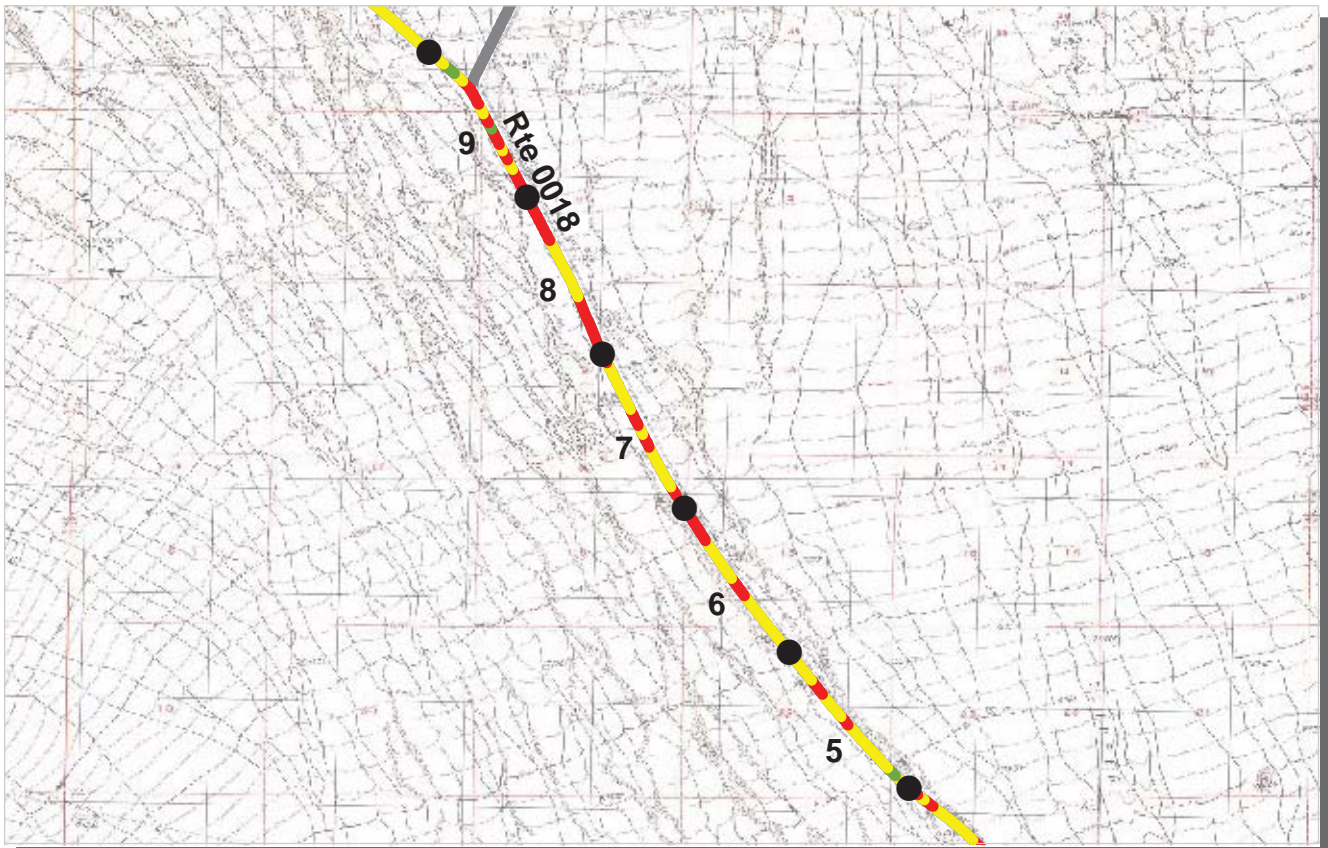
ROUTE: 0018 ESSEX ROAD
MOJA : MOJAVE NATIONAL PRESERVE

COLLECTED: 4/19/2008
TOTAL LENGTH: 13.79 Miles

PACIFIC WEST REGION

<i>Section Number</i>	0	1	2	3	4
<i>Section Length (mi)</i>	1.00	1.00	1.00	1.00	1.00
<i>Traffic</i>	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<i>Cross Section Information</i>					
Number of Lanes	1	2	2	2	2
Paved Width (ft)	24	24	25	25	23
Lane Width (ft)	10	10	10	11	10
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
<i>Roadway Condition Information</i>					
SCR (Surface Condition Rating)	52	61	34	12	32
PCR (Pavement Condition Rating)	69	74	53	42	56
<i>Distress Index Values</i>					
Alligator Cracking Index	96	100	78	63	83
Longitudinal Cracking Index	86	91	87	76	82
Transverse Cracking Index	82	87	82	75	76
Patching Index	99	100	100	100	100
Rutting Index	88	84	77	80	88
Roughness Condition Index (RCI)	95	94	82	86	92

ROUTE: 0018 ESSEX ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

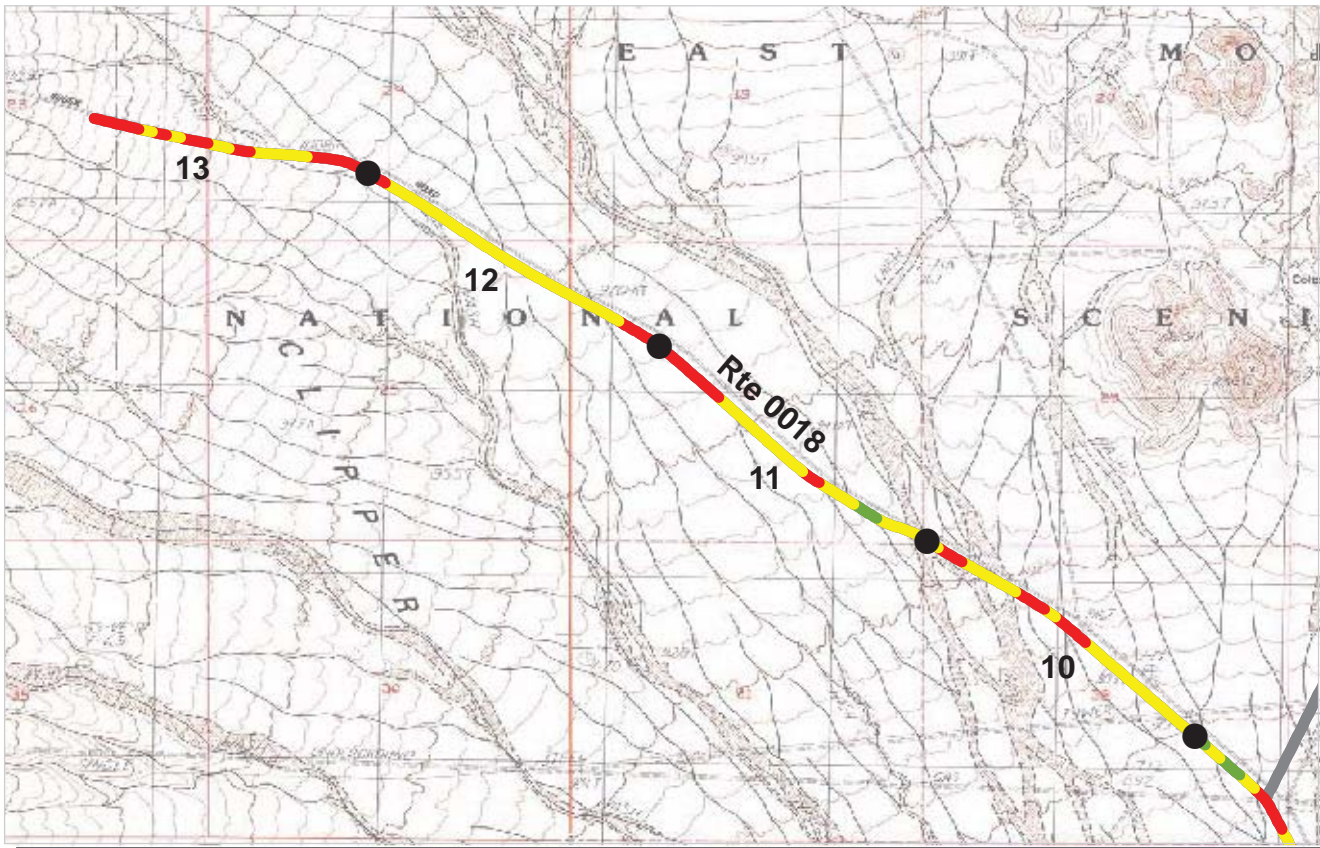
ROUTE: 0018 ESSEX ROAD
MOJA : MOJAVE NATIONAL PRESERVE

COLLECTED: 4/19/2008
TOTAL LENGTH: 13.79 Miles

PACIFIC WEST REGION

<i>Section Number</i>	5	6	7	8	9
<i>Section Length (mi)</i>	1.00	1.00	1.00	1.00	1.00
<i>Traffic</i>	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<i>Cross Section Information</i>					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	24	24	24	23	24
Lane Width (ft)	10	10	10	10	10
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
<i>Roadway Condition Information</i>					
SCR (Surface Condition Rating)	54	41	38	31	40
PCR (Pavement Condition Rating)	70	63	62	55	59
<i>Distress Index Values</i>					
Alligator Cracking Index	99	99	97	91	93
Longitudinal Cracking Index	90	89	85	80	88
Transverse Cracking Index	86	82	74	73	87
Patching Index	100	99	100	100	100
Rutting Index	79	71	81	81	70
Roughness Condition Index (RCI)	94	98	97	92	88

ROUTE: 0018 ESSEX ROAD



PCR Poor ■ Fair ■ Good ■ Excellent ■ No Data ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

ROUTE: 0018 ESSEX ROAD
MOJA : MOJAVE NATIONAL PRESERVE

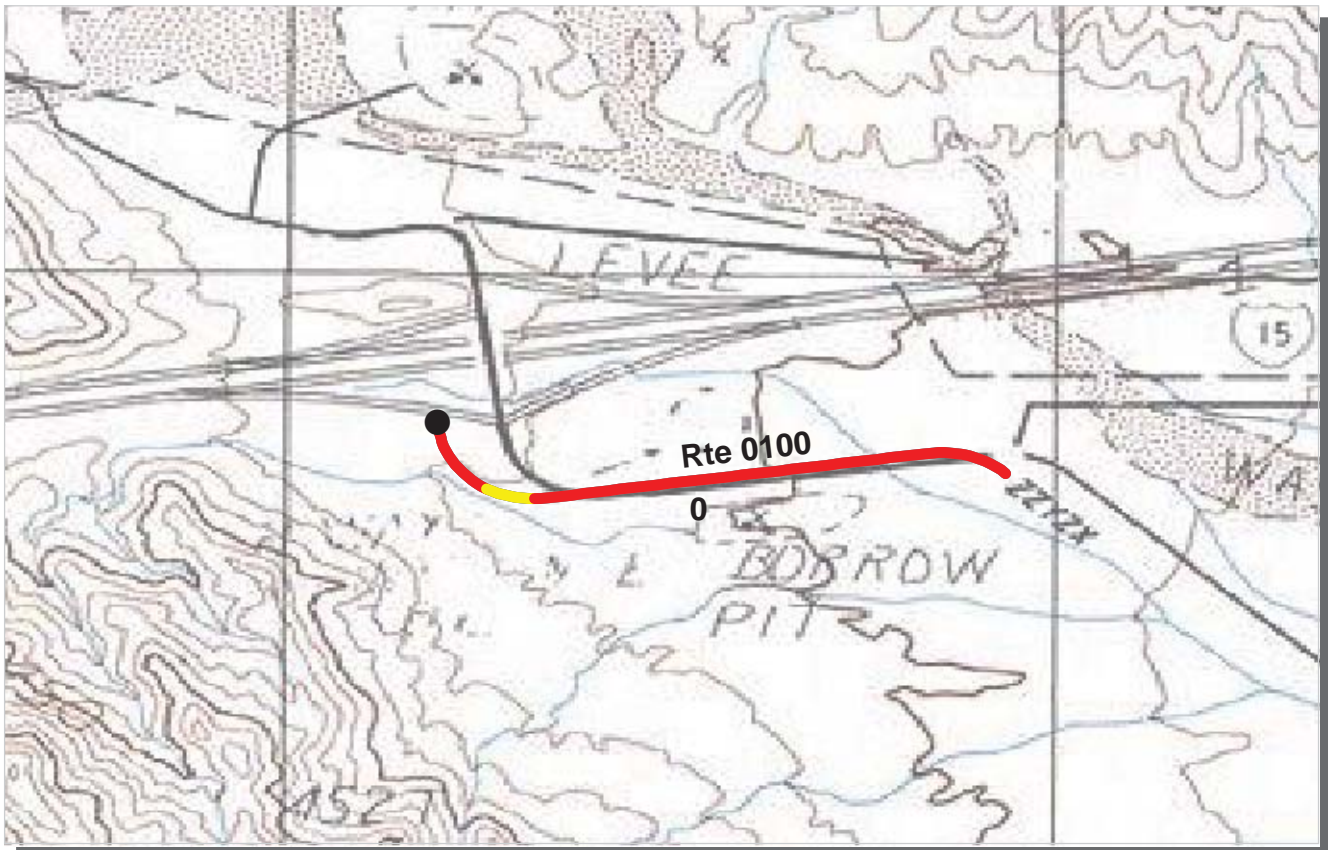
COLLECTED: 4/19/2008
TOTAL LENGTH: 13.79 Miles

PACIFIC WEST REGION

Section Number	10	11	12	13	
Section Length (mi)	1.00	1.00	1.00	0.79	
Traffic	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2	2	2	2	
Paved Width (ft)	24	24	23	24	
Lane Width (ft)	10	10	9	10	
Shoulder Width Right (ft)	NC	NC	NC	NC	
Shoulder Width Left (ft)	NC	NC	NC	NC	
Roadway Condition Information					
SCR (Surface Condition Rating)	50	55	51	31	
PCR (Pavement Condition Rating)	63	68	65	52	
Distress Index Values					
Alligator Cracking Index	94	98	97	98	
Longitudinal Cracking Index	91	92	91	84	
Transverse Cracking Index	89	90	89	75	
Patching Index	99	98	98	100	
Rutting Index	75	75	74	73	
Roughness Condition Index (RCI)	84	88	86	83	

ROUTE: 0018 ESSEX ROAD

NC - Not Collected



PCR Poor Fair Good Excellent No Data
 (<=60) (61 - 84) (85 - 94) (95 - 100)

* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.

ROUTE: 0100 ZZYZX ROAD
MOJA : MOJAVE NATIONAL PRESERVE

COLLECTED: 4/21/2008
TOTAL LENGTH: 0.51 Miles

PACIFIC WEST REGION

<i>Section Number</i>	0				
<i>Section Length (mi)</i>	0.51				
<i>Traffic</i>	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
<i>Cross Section Information</i>					
Number of Lanes	2				
Paved Width (ft)	25				
Lane Width (ft)	12				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
<i>Roadway Condition Information</i>					
SCR (Surface Condition Rating)	26				
PCR (Pavement Condition Rating)	49				
<i>Distress Index Values</i>					
Alligator Cracking Index	96				
Longitudinal Cracking Index	76				
Transverse Cracking Index	74				
Patching Index	100				
Rutting Index	79				
Roughness Condition Index (RCI)	87				

ROUTE: 0100 ZZYZX ROAD

Mojave National Preserve



Section 6

Manually Rated Paved Route Condition Rating Sheets (MRR)

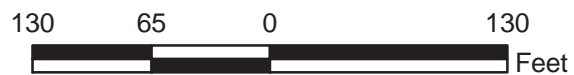
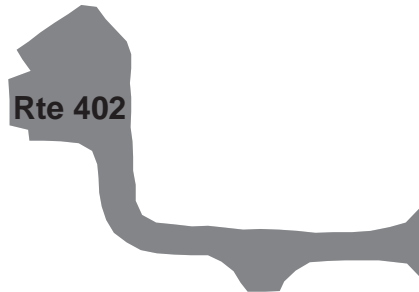
MOJAVE NATIONAL PRESERVE

Route 0402

BAKER RESIDENTIAL ROAD
FROM CALTRANS ROAD
TO PARKING

Route Number	Public / NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0402	NONPUBLIC	2/12/2008		6,826	0.12	AS
Culverts	Drop Inlets	Gates	Fire Hydrants	Curb & Gutter	Curb	PCR
0	0	1	0	NO CURB AND GUTTER	CONCRETE CURB	GOOD/90

* Lane miles are based on 11' lane widths



Mojave National Preserve



Section 7 **Parking Area Condition Rating Sheets**

Section 7: Parking Lot Route Condition Rating Sheets

No data available for this section.

Mojave National Preserve



Section 8 **Parkwide / Route Maintenance** **Features Summaries**

MOJA: PARKWIDE MAINTENANCE FEATURES SUMMARY

Notice: Culverts and drop inlets were marked only on a limited number of roads in Cycle 4, therefore the culvert and drop inlet count below includes only those select roads, plus culverts and drop inlets in Manually Rated Routes and Paved Parking Areas.

FEATURE	LINEAR FEET	COUNT
BARRIER	63	--
BOLLARD	0	--
BRIDGE	--	0
CABLE	0	--
CATTLE GUARD	--	17
CULVERT	--	1
CURB	2,783	--
DROP INLET	--	0
FIRE HYDRANT	--	2
GATE	--	1
GUARD/GUIDE RAIL	63	--
GUARD/GUIDE WALL	0	--
INTERSECTION	--	339
LOW WATER CROSSING	5,692	54
MILE MARKER	--	0
OVERPASS	--	0
OVERHEAD SIGN	--	0
PARK BOUNDARY	--	6
PAVED DITCH	0	--
PULLOUT	--	0
RAILROAD CROSSING	--	10
RETAINING WALL	--	0
SIGN	--	552
STATE BOUNDARY	--	0
TEMPORARY BARRIER	0	--
TRAFFIC LIGHT	--	4
TUNNEL	--	0
TURNOUT	0	--

MOJA: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0010 KELBAKER ROAD	ROUTE 0011 KELSO-CIMA ROAD	ROUTE 0012 CIMA ROAD	ROUTE 0013 MORNING STAR MINE ROAD	ROUTE 0014 IVANPAH ROAD	ROUTE 0015 LANFAIR ROAD	UNIT
BARRIER	32	0	32	0	0	0	LINEAR FEET
BOLLARD	0	0	0	0	0	0	LINEAR FEET
BRIDGE	0	0	0	0	0	0	EACH
CABLE	0	0	0	0	0	0	LINEAR FEET
CATTLE GUARD	7	0	2	1	3	0	EACH
CULVERT	0	0	1	0	0	0	EACH
CURB	158	797	935	0	164	0	LINEAR FEET
DROP INLET	0	0	0	0	0	0	EACH
FIRE HYDRANT	0	2	0	0	0	0	EACH
GATE	0	0	0	0	0	0	EACH
GUARD/GUIDE RAIL	32	0	32	0	0	0	LINEAR FEET
GUARD/GUIDE WALL	0	0	0	0	0	0	LINEAR FEET
INTERSECTION	78	134	34	16	20	14	EACH
LOW WATER CROSSING	5	35	1	0	6	0	EACH
LOW WATER CROSSING	660	3,464	79	0	491	0	LINEAR FEET
MILE MARKER	0	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	0	EACH
OVERPASS	0	0	0	0	0	0	EACH
PARK BOUNDARY	2	0	1	0	0	1	EACH
PAVED DITCH	0	0	0	0	0	0	LINEAR FEET
PULLOUT	0	0	0	0	0	0	EACH
RAILROAD CROSSING	5	2	0	0	2	0	EACH
RETAINING WALL	0	0	0	0	0	0	EACH
SIGN	188	82	71	34	61	9	EACH
STATE BOUNDARY	0	0	0	0	0	0	EACH
TEMPORARY BARRIER	0	0	0	0	0	0	LINEAR FEET
TRAFFIC LIGHT	2	0	0	0	2	0	EACH
TUNNEL	0	0	0	0	0	0	EACH
TURNOUT	0	0	0	0	0	0	LINEAR FEET

Notice: Culverts and drop inlets were marked only on a limited number of roads in Cycle 4, therefore the culvert and drop inlet count above includes only those select roads, plus culverts and drop inlets in Manually Rated Routes and Paved Parking Areas.

MOJA: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0016 CEDAR CANYON ROAD	ROUTE 0017 BLACK CANYON ROAD	ROUTE 0018 ESSEX ROAD	ROUTE 0100 ZZYZX ROAD	UNIT
BARRIER	0	0	0	0	LINEAR FEET
BOLLARD	0	0	0	0	LINEAR FEET
BRIDGE	0	0	0	0	EACH
CABLE	0	0	0	0	LINEAR FEET
CATTLE GUARD	1	1	1	1	EACH
CULVERT	0	0	0	0	EACH
CURB	0	0	0	729	LINEAR FEET
DROP INLET	0	0	0	0	EACH
FIRE HYDRANT	0	0	0	0	EACH
GATE	0	0	0	0	EACH
GUARD/GUIDE RAIL	0	0	0	0	LINEAR FEET
GUARD/GUIDE WALL	0	0	0	0	LINEAR FEET
INTERSECTION	4	22	12	5	EACH
LOW WATER CROSSING	0	7	0	0	EACH
LOW WATER CROSSING	0	998	0	0	LINEAR FEET
MILE MARKER	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	EACH
OVERPASS	0	0	0	0	EACH
PARK BOUNDARY	0	0	2	0	EACH
PAVED DITCH	0	0	0	0	LINEAR FEET
PULLOUT	0	0	0	0	EACH
RAILROAD CROSSING	1	0	0	0	EACH
RETAINING WALL	0	0	0	0	EACH
SIGN	22	46	37	2	EACH
STATE BOUNDARY	0	0	0	0	EACH
TEMPORARY BARRIER	0	0	0	0	LINEAR FEET
TRAFFIC LIGHT	0	0	0	0	EACH
TUNNEL	0	0	0	0	EACH
TURNOUT	0	0	0	0	LINEAR FEET

Notice: Culverts and drop inlets were marked only on a limited number of roads in Cycle 4, therefore the culvert and drop inlet count above includes only those select roads, plus culverts and drop inlets in Manually Rated Routes and Paved Parking Areas.

MOJA: STRUCTURE LIST

ROUTE NUMBER	FUNCTIONAL CLASS	MILEPOST START	MILEPOST END	FEATURE	STRUCTURE NUMBER
0		0 0	0	0	0

No data available for this section.

Mojave National Preserve



Section 9

Park Route Maintenance Features

Road Logs

MOJA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010: KELBAKER ROAD

Notice: Culverts and drop inlets were marked only on select roads and are reflected in the Road Logs. Culverts and drop inlets were inventoried in paved parking areas and can be found in the Parking Lot Condition Rating Sheets (Section 7), and in the Parkwide Maintenance Features Summary (Section 8).

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM NORTH PARK BOUNDARY AT CATTLE GUARD
0.000	0.000	INTERSECTION	N/A	PAVED ROUTE (HWY 127 / DEATH VALLEY ROAD)
0.000	0.000	INTERSECTION	RIGHT	PAVED ROUTE (I-15 OFF RAMP)
0.000	0.000	PARK BOUNDARY	N/A	NORTH PARK BOUNDARY
0.000	0.000	INTERSECTION	LEFT	PAVED ROUTE (I-15 ON RAMP)
0.004	0.004	SIGN	RIGHT	REGULATORY, ONE WAY
0.005	0.014	CURB	RIGHT	
0.005	0.005	SIGN	LEFT	REGULATORY, ONE WAY
0.008	0.008	SIGN	LEFT	GUIDE, NORTH
0.008	0.008	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT
0.008	0.008	SIGN	LEFT	GUIDE, 15
0.008	0.008	SIGN	LEFT	GUIDE, FREEWAY ENTRANCE
0.009	0.009	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
0.010	0.015	CURB	LEFT	
0.016	0.016	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.016	0.016	CATTLE GUARD	N/A	
0.017	0.017	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
0.018	0.018	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
0.018	0.018	SIGN	RIGHT	REGULATORY, NO LEFT TURN
0.019	0.019	SIGN	RIGHT	GUIDE, BARSTOW LAS VEGAS
0.020	0.020	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.027	0.027	INTERSECTION	RIGHT	UNPAVED ROUTE (BAKER COMMUNITY COLLECTION CENTER)
0.033	0.033	INTERSECTION	LEFT	UNPAVED ROUTE (TELEPHONE LINE ROAD)
0.041	0.041	SIGN	RIGHT	REGULATORY, CLOSED TO THRU COMMERCIAL TRAFFIC
0.105	0.105	SIGN	RIGHT	GUIDE, KELSO 35 MILES NO SERVICES
0.105	0.105	SIGN	RIGHT	GUIDE, NEXT SERVICES 76 MILES
0.143	0.143	SIGN	RIGHT	WARNING, CAUTION THIS ROAD SUBJECT TO FLASH FLOOD
0.188	0.188	SIGN	RIGHT	REGULATORY, SPEED CHECKED BY RADAR
0.226	0.226	SIGN	RIGHT	REGULATORY, SPEED LIMIT 55

MOJA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010: KELBAKER ROAD

Notice: Culverts and drop inlets were marked only on select roads and are reflected in the Road Logs. Culverts and drop inlets were inventoried in paved parking areas and can be found in the Parking Lot Condition Rating Sheets (Section 7), and in the Parkwide Maintenance Features Summary (Section 8).

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.267	0.267	INTERSECTION	RIGHT	UNPAVED PARKING (ENTRANCE SIGN)
0.288	0.288	SIGN	RIGHT	GUIDE, MOJAVE NATIONAL PRESERVE
0.739	0.739	SIGN	RIGHT	WARNING, 40 MPH
0.739	0.739	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.865	0.865	INTERSECTION	RIGHT	UNPAVED ROUTE
0.903	0.903	INTERSECTION	RIGHT	UNPAVED ROUTE
0.978	0.978	SIGN	RIGHT	WARNING, 40 MPH
0.978	0.978	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.454	1.454	INTERSECTION	RIGHT	UNPAVED ROUTE
1.464	1.464	INTERSECTION	LEFT	UNPAVED ROUTE
1.894	1.894	INTERSECTION	RIGHT	UNPAVED ROUTE
1.909	1.909	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.909	1.909	CATTLE GUARD	N/A	
1.909	1.909	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
1.911	1.911	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
1.911	1.911	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
5.094	5.094	INTERSECTION	RIGHT	UNPAVED ROUTE
5.737	5.737	INTERSECTION	RIGHT	UNPAVED ROUTE (HENRY SPRINGS ROAD)
5.743	5.743	INTERSECTION	LEFT	UNPAVED ROUTE (HENRY SPRINGS ROAD)
10.327	10.327	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
10.327	10.327	SIGN	RIGHT	WARNING, 45 MPH
10.413	10.413	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
10.414	10.414	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
10.443	10.443	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
10.443	10.443	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
10.450	10.450	INTERSECTION	LEFT	UNPAVED ROUTE
10.470	10.470	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
10.470	10.470	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
10.507	10.507	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
10.507	10.507	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT

MOJA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010: KELBAKER ROAD

Notice: Culverts and drop inlets were marked only on select roads and are reflected in the Road Logs. Culverts and drop inlets were inventoried in paved parking areas and can be found in the Parking Lot Condition Rating Sheets (Section 7), and in the Parkwide Maintenance Features Summary (Section 8).

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
10.515	10.515	INTERSECTION	LEFT	UNPAVED ROUTE
10.526	10.526	INTERSECTION	LEFT	UNPAVED ROUTE
10.544	10.544	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
10.544	10.544	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
10.687	10.687	SIGN	RIGHT	WARNING, 45 MPH
10.687	10.687	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
12.225	12.225	INTERSECTION	RIGHT	UNPAVED ROUTE
12.752	12.752	INTERSECTION	LEFT	UNPAVED ROUTE (SNAPPER SPRING ROAD)
13.316	13.316	SIGN	RIGHT	WARNING, 45 M.P.H.
13.316	13.316	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
13.487	13.487	INTERSECTION	LEFT	UNPAVED ROUTE
13.764	13.764	SIGN	RIGHT	WARNING, DIP
13.823	13.823	INTERSECTION	LEFT	UNPAVED ROUTE
13.910	13.910	INTERSECTION	RIGHT	UNPAVED ROUTE (MOJAVE ROAD)
13.912	13.912	SIGN	RIGHT	WARNING, DIP
13.920	13.920	INTERSECTION	LEFT	UNPAVED ROUTE (MOJAVE ROAD)
13.930	13.930	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
14.308	14.308	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
15.362	15.362	INTERSECTION	LEFT	UNPAVED ROUTE
16.812	16.812	INTERSECTION	LEFT	UNPAVED ROUTE
17.682	17.682	INTERSECTION	LEFT	UNPAVED ROUTE
19.687	19.687	INTERSECTION	LEFT	UNPAVED ROUTE (AIKEN MINE ROAD / NON NPS)
19.699	19.699	INTERSECTION	RIGHT	UNPAVED ROUTE (JACKASS SPRING ROAD / NON NPS)
20.127	20.127	INTERSECTION	RIGHT	UNPAVED ROUTE
22.198	22.198	SIGN	RIGHT	WARNING, 50 MPH
22.198	22.198	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
22.668	22.668	SIGN	RIGHT	WARNING, 50 MPH
22.668	22.668	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
23.017	23.017	SIGN	RIGHT	WARNING, 45 MPH
23.017	23.017	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT

MOJA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010: KELBAKER ROAD

Notice: Culverts and drop inlets were marked only on select roads and are reflected in the Road Logs. Culverts and drop inlets were inventoried in paved parking areas and can be found in the Parking Lot Condition Rating Sheets (Section 7), and in the Parkwide Maintenance Features Summary (Section 8).

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
23.084	23.084	INTERSECTION	RIGHT	UNPAVED ROUTE (POWER LINE ROAD)
23.089	23.089	CATTLE GUARD	N/A	
23.089	23.089	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
23.089	23.089	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
23.091	23.091	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
23.092	23.092	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
23.100	23.100	INTERSECTION	LEFT	UNPAVED ROUTE (POWER LINE ROAD)
23.110	23.110	INTERSECTION	RIGHT	UNPAVED ROUTE
23.192	23.192	SIGN	RIGHT	WARNING, 45 MPH
23.192	23.192	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
27.021	27.021	SIGN	RIGHT	WARNING, SOFT SHOULDER
29.076	29.076	SIGN	RIGHT	WARNING, SOFT SHOULDER
32.399	32.399	CATTLE GUARD	N/A	
32.399	32.399	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
32.400	32.400	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
32.401	32.401	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
32.402	32.402	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
34.346	34.346	SIGN	RIGHT	GUIDE, KELSO DEPOT VISITOR CENTER
34.437	34.437	SIGN	RIGHT	GUIDE, KELSO DUNES 8 CIMA 20 CAMPGROUNDS
34.489	34.489	SIGN	RIGHT	REGULATORY, SPEED LIMIT 55
34.527	34.527	SIGN	RIGHT	REGULATORY, SPEED CHECKED BY RADAR
34.548	34.548	INTERSECTION	RIGHT	PAVED ROUTE (PRIVATE)
34.587	34.587	SIGN	RIGHT	WARNING, 5 TRACKS
34.587	34.587	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
34.593	34.616	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
34.597	34.597	INTERSECTION	LEFT	UNPAVED ROUTE
34.627	34.627	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
34.634	34.634	INTERSECTION	LEFT	ROUTE 0011 (KELSO-CIMA ROAD)
34.643	34.659	CURB-AND-GUTTER	LEFT	
34.654	34.654	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)

MOJA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010: KELBAKER ROAD

Notice: Culverts and drop inlets were marked only on select roads and are reflected in the Road Logs. Culverts and drop inlets were inventoried in paved parking areas and can be found in the Parking Lot Condition Rating Sheets (Section 7), and in the Parkwide Maintenance Features Summary (Section 8).

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
34.658	34.658	INTERSECTION	LEFT	UNPAVED ROUTE (RAILROAD ACCESS)
34.660	34.660	TRAFFIC LIGHT	RIGHT	
34.660	34.660	SIGN	RIGHT	REGULATORY, 5 TRACKS
34.660	34.660	SIGN	RIGHT	REGULATORY, RAILROAD CROSSING
34.661	34.664	GUARD/GUIDE RAIL	RIGHT	
34.664	34.664	SIGN	LEFT	REGULATORY, UNABLE TO READ FROM VIDEO
34.665	34.665	RAILROAD CROSSING	N/A	
34.670	34.670	RAILROAD CROSSING	N/A	
34.671	34.671	RAILROAD CROSSING	N/A	
34.675	34.675	RAILROAD CROSSING	N/A	
34.680	34.680	RAILROAD CROSSING	N/A	
34.685	34.688	GUARD/GUIDE RAIL	LEFT	
34.686	34.686	SIGN	LEFT	REGULATORY, RAILROAD CROSSING
34.686	34.686	TRAFFIC LIGHT	LEFT	
34.695	34.695	INTERSECTION	LEFT	UNPAVED ROUTE (RAILROAD HOUSING ACCESS)
34.697	34.697	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
34.723	34.723	SIGN	RIGHT	GUIDE, 40 18 MILES
34.738	34.738	INTERSECTION	LEFT	UNPAVED ROUTE
34.756	34.756	INTERSECTION	LEFT	UNPAVED ROUTE
34.780	34.780	INTERSECTION	RIGHT	UNPAVED ROUTE
34.797	34.797	SIGN	RIGHT	REGULATORY, SPEED CHECKED BY RADAR
34.835	34.835	SIGN	RIGHT	REGULATORY, SPEED LIMIT 55
34.857	34.857	SIGN	RIGHT	WARNING, 25 MPH
34.857	34.857	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
34.994	34.994	SIGN	RIGHT	GUIDE, KELSO DEPOT VISITOR CENTER
35.315	35.315	CATTLE GUARD	N/A	
35.315	35.315	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
35.315	35.315	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
35.317	35.317	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
35.317	35.317	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT

MOJA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010: KELBAKER ROAD

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FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
35.329	35.364	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
35.366	35.366	SIGN	RIGHT	WARNING, 45 M.P.H.
35.366	35.366	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
35.401	35.401	INTERSECTION	LEFT	UNPAVED ROUTE
35.618	35.618	SIGN	RIGHT	WARNING, 45 M.P.H.
35.618	35.618	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
36.795	36.795	SIGN	RIGHT	WARNING, SOFT SHOULDER
36.796	36.796	SIGN	RIGHT	WARNING, SOFT SHOULDER
37.008	37.033	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
37.234	37.234	INTERSECTION	RIGHT	UNPAVED ROUTE (PHONE LINE ROAD)
38.348	38.348	INTERSECTION	LEFT	UNPAVED ROUTE
38.489	38.489	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
38.489	38.489	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
38.489	38.489	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
38.489	38.489	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
38.557	38.557	INTERSECTION	RIGHT	UNPAVED ROUTE
38.610	38.610	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
38.610	38.610	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
38.611	38.611	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
38.611	38.611	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
38.703	38.725	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
39.632	39.632	SIGN	RIGHT	WARNING, DIP
39.857	39.857	SIGN	RIGHT	WARNING, DIP
42.219	42.219	SIGN	RIGHT	GUIDE, KELSO DUNES ROAD 1/4 MILE
42.479	42.479	INTERSECTION	RIGHT	ROUTE 0202 (KELSO DUNES ROAD)
42.620	42.620	INTERSECTION	RIGHT	PAVED ROUTE (GAS LINE ROAD)
42.711	42.711	INTERSECTION	LEFT	UNPAVED ROUTE (NON NPS)
42.716	42.716	INTERSECTION	RIGHT	UNPAVED ROUTE (NON NPS)
42.817	42.817	INTERSECTION	LEFT	UNPAVED ROUTE
43.275	43.275	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT

MOJA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010: KELBAKER ROAD

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FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
43.386	43.386	INTERSECTION	RIGHT	UNPAVED ROUTE (POWER LINE ROAD)
43.541	43.541	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
43.712	43.712	SIGN	RIGHT	WARNING, SOFT SHOULDER
43.715	43.715	SIGN	RIGHT	WARNING, SOFT SHOULDER
45.656	45.656	SIGN	RIGHT	WARNING, SOFT SHOULDER
45.755	45.755	INTERSECTION	RIGHT	UNPAVED ROUTE
46.548	46.548	INTERSECTION	LEFT	UNPAVED ROUTE (GROVER CANYON ROAD)
47.046	47.046	SIGN	RIGHT	WARNING, SOFT SHOULDER
47.119	47.119	INTERSECTION	RIGHT	UNPAVED ROUTE
47.372	47.372	INTERSECTION	LEFT	UNPAVED ROUTE
47.385	47.385	INTERSECTION	RIGHT	UNPAVED ROUTE
49.043	49.043	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
49.079	49.079	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
49.079	49.079	SIGN	RIGHT	WARNING, NEXT 2 MILES
49.095	49.095	INTERSECTION	RIGHT	UNPAVED ROUTE
49.125	49.125	INTERSECTION	RIGHT	UNPAVED ROUTE
49.132	49.132	INTERSECTION	RIGHT	UNPAVED ROUTE
49.143	49.143	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
49.144	49.144	CATTLE GUARD	N/A	
49.144	49.144	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
49.145	49.145	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
49.146	49.146	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
49.150	49.150	INTERSECTION	LEFT	UNPAVED ROUTE (SERVICE ROAD)
49.156	49.156	INTERSECTION	RIGHT	UNPAVED ROUTE (SERVICE ROAD)
49.182	49.182	INTERSECTION	LEFT	UNPAVED ROUTE
49.278	49.278	SIGN	RIGHT	WARNING, 40 MPH
49.278	49.278	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
49.280	49.280	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
49.280	49.280	SIGN	LEFT	WARNING, 40 MPH
49.410	49.410	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT

MOJA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010: KELBAKER ROAD

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FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
49.424	49.424	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
49.438	49.438	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
49.452	49.452	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
49.467	49.467	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
49.479	49.479	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
49.494	49.494	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
49.641	49.641	SIGN	RIGHT	WARNING, 40 MPH
49.641	49.641	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
49.719	49.719	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
49.719	49.719	SIGN	LEFT	WARNING, 30 MPH
49.730	49.730	SIGN	RIGHT	WARNING, 30 MPH
49.730	49.730	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
49.815	49.815	SIGN	RIGHT	WARNING, 30
49.928	49.928	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
49.928	49.928	SIGN	RIGHT	WARNING, 30 MPH
49.979	49.979	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
49.979	49.979	SIGN	RIGHT	WARNING, 50 MPH
50.196	50.216	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
50.207	50.207	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
50.207	50.207	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
50.214	50.214	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT
50.239	50.239	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
50.239	50.239	SIGN	RIGHT	WARNING, 50 MPH
50.527	50.527	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
50.527	50.527	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
50.531	50.531	INTERSECTION	RIGHT	UNPAVED ROUTE
50.532	50.532	INTERSECTION	LEFT	UNPAVED ROUTE (HIDDEN HILLS ROAD)
50.532	50.532	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
50.686	50.686	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
50.733	50.733	INTERSECTION	LEFT	UNPAVED ROUTE

MOJA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010: KELBAKER ROAD

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FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
51.214	51.214	SIGN	RIGHT	WARNING, 50 MPH
51.214	51.214	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
51.326	51.326	SIGN	RIGHT	WARNING, ICY
51.326	51.326	SIGN	RIGHT	WARNING, NEXT 15 MILES
51.329	51.329	INTERSECTION	LEFT	UNPAVED PARKING
51.349	51.349	INTERSECTION	LEFT	UNPAVED PARKING
51.350	51.350	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
51.351	51.351	INTERSECTION	RIGHT	UNPAVED ROUTE (POWER LINE ROAD)
51.430	51.430	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
51.430	51.430	SIGN	RIGHT	WARNING, NEXT 2 MILES
51.444	51.444	SIGN	RIGHT	WARNING, NEXT 6 MILES
51.444	51.444	SIGN	RIGHT	WARNING, CAUTION THIS ROAD SUBJECT TO FLASH FLOOD
51.481	51.481	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
51.527	51.527	SIGN	RIGHT	WARNING, FLOODED
51.667	51.667	INTERSECTION	LEFT	UNPAVED ROUTE
51.674	51.674	INTERSECTION	RIGHT	UNPAVED ROUTE
51.735	51.735	INTERSECTION	RIGHT	UNPAVED ROUTE
51.794	51.794	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
52.358	52.358	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
52.446	52.446	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
52.590	52.590	SIGN	RIGHT	WARNING, SOFT SHOULDER
52.591	52.591	SIGN	RIGHT	WARNING, SOFT SHOULDER
52.976	52.976	INTERSECTION	RIGHT	UNPAVED ROUTE
54.473	54.473	SIGN	RIGHT	WARNING, SOFT SHOULDER
54.474	54.474	SIGN	RIGHT	WARNING, SOFT SHOULDER
54.574	54.574	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
54.694	54.694	INTERSECTION	LEFT	UNPAVED ROUTE
54.854	54.854	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
54.973	54.973	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
55.170	55.170	INTERSECTION	RIGHT	UNPAVED ROUTE

MOJA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010: KELBAKER ROAD

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FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
55.315	55.315	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
55.515	55.515	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
55.698	55.698	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT
55.777	55.777	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
56.058	56.058	SIGN	RIGHT	GUIDE, MOJAVE NATIONAL PRESERVE
56.061	56.061	INTERSECTION	LEFT	UNPAVED PARKING (ENTRANCE SIGN)
56.543	56.543	SIGN	RIGHT	REGULATORY, SPEED LIMIT 55
56.550	56.550	SIGN	RIGHT	WARNING, 40 MPH
56.550	56.550	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
56.585	56.585	SIGN	RIGHT	REGULATORY, SPEED CHECKED BY RADAR
56.747	56.747	INTERSECTION	RIGHT	UNPAVED ROUTE
56.862	56.862	SIGN	RIGHT	WARNING, 40 MPH
56.862	56.862	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
56.904	56.904	SIGN	RIGHT	GUIDE, NEXT SERVICE BAKER 57 MILES
56.904	56.904	SIGN	RIGHT	GUIDE, KELSO 22 MILES NO SERVICE
56.934	56.934	SIGN	LEFT	GUIDE, MOJAVE NATIONAL PRESERVE
56.934	56.934	SIGN	RIGHT	GUIDE, MOJAVE NATIONAL PRESERVE
56.956	56.956	SIGN	RIGHT	WARNING, SUBJECT TO FLOODING
56.956	56.956	SIGN	RIGHT	WARNING, NEXT 6 MILES
56.980	56.980	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
56.980	56.980	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
56.980	56.980	CATTLE GUARD	N/A	
56.980	56.980	INTERSECTION	N/A	PAVED ROUTE (KELBAKER ROAD NON NPS)
56.980	56.980	PARK BOUNDARY	N/A	SOUTH PARK BOUNDARY
56.980	56.980	ROUTE END	N/A	TO SOUTH PARK BOUNDARY AT CATTLE GUARD

MOJA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0011: KELSO-CIMA ROAD

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FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0010 (KELBAKER ROAD) AT MP 34.63 (ON LEFT)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0010 (KELBAKER ROAD)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0010 (KELBAKER ROAD)
0.000	0.000	SIGN	N/A	GUIDE, KELSO DUNES 8 BAKER 35
0.000	0.000	SIGN	N/A	WARNING, GRAPHIC SIGN, NO TEXT
0.000	0.000	SIGN	N/A	WARNING, GRAPHIC SIGN, NO TEXT
0.004	0.004	SIGN	RIGHT	GUIDE, NELBAKER
0.004	0.004	SIGN	RIGHT	REGULATORY, STOP
0.005	0.005	SIGN	LEFT	GUIDE, KELSO CIMA RD
0.010	0.064	CURB-AND-GUTTER	RIGHT	
0.026	0.026	SIGN	RIGHT	GUIDE, 40 18 AMBOY 36 15 BAKER 35
0.026	0.026	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.042	0.042	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.042	0.042	SIGN	RIGHT	WARNING, 5 TRACKS
0.042	0.042	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.042	0.042	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
0.043	0.043	INTERSECTION	LEFT	UNPAVED PARKING
0.063	0.063	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.063	0.063	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.069	0.069	INTERSECTION	RIGHT	UNPAVED PARKING
0.073	0.073	FIRE HYDRANT	RIGHT	
0.073	0.105	CURB-AND-GUTTER	RIGHT	
0.090	0.090	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
0.090	0.090	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
0.103	0.103	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
0.110	0.110	INTERSECTION	RIGHT	UNPAVED PARKING (KELSO DEPOT)
0.116	0.181	CURB	RIGHT	
0.126	0.126	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.134	0.134	INTERSECTION	LEFT	UNPAVED ROUTE
0.158	0.158	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT

MOJA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0011: KELSO-CIMA ROAD

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0.159	0.159	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.186	0.186	INTERSECTION	LEFT	UNPAVED ROUTE
0.186	0.186	INTERSECTION	RIGHT	UNPAVED PARKING (KELSO DEPOT)
0.194	0.194	SIGN	RIGHT	WARNING, 25 MPH
0.194	0.194	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.203	0.203	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
0.203	0.203	SIGN	LEFT	WARNING, 25 MPH
0.227	0.227	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
0.229	0.229	INTERSECTION	LEFT	UNPAVED ROUTE
0.230	0.230	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT
0.235	0.235	SIGN	RIGHT	REGULATORY, SPEED LIMIT 55
0.235	0.235	SIGN	RIGHT	REGULATORY, RADAR ENFORCED
0.359	0.359	FIRE HYDRANT	RIGHT	
0.371	0.371	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT
0.516	0.516	INTERSECTION	LEFT	UNPAVED ROUTE
0.552	0.552	SIGN	RIGHT	GUIDE, KELSO DEPOT VISITOR CENTER LEFT 1/2 MILE
0.663	0.663	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
0.988	0.988	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
1.009	1.009	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
1.026	1.026	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
1.043	1.043	SIGN	RIGHT	WARNING, DIPS
1.043	1.043	SIGN	RIGHT	WARNING, NEXT 15 MILES
1.122	1.122	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
1.156	1.156	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
1.170	1.184	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
1.249	1.249	INTERSECTION	LEFT	UNPAVED ROUTE
1.462	1.462	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
1.480	1.480	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
1.501	1.501	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
1.589	1.589	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)

MOJA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0011: KELSO-CIMA ROAD

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1.730	1.730	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
1.739	1.758	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
1.785	1.785	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
2.152	2.152	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
2.164	2.185	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
2.203	2.203	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
2.412	2.412	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
2.422	2.440	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
2.459	2.459	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
2.875	2.875	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
2.882	2.898	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
2.904	2.904	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
3.328	3.351	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
3.575	3.575	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
3.798	3.798	INTERSECTION	RIGHT	UNPAVED ROUTE (GLOBE MINE ROAD)
3.804	3.804	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
3.804	3.813	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
3.815	3.815	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
4.011	4.011	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
4.016	4.028	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
4.040	4.040	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
4.465	4.465	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
4.505	4.505	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
4.599	4.599	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
4.713	4.730	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
4.736	4.736	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
4.897	4.897	SIGN	RIGHT	REGULATORY, SPEED LIMIT 55
5.051	5.051	SIGN	RIGHT	REGULATORY, SPEED LIMIT 55
5.361	5.382	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
5.563	5.563	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)

MOJA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0011: KELSO-CIMA ROAD

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5.572	5.603	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
5.581	5.581	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
5.608	5.608	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
6.163	6.163	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
6.169	6.169	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
6.202	6.227	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
6.231	6.231	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
6.592	6.617	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
6.632	6.632	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
6.662	6.662	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
6.702	6.702	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
7.019	7.019	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
7.037	7.037	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
7.057	7.057	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
7.258	7.258	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
7.284	7.284	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
7.333	7.333	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
7.356	7.383	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
7.386	7.386	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
7.584	7.584	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
7.592	7.615	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
7.626	7.626	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
7.927	7.927	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
8.077	8.077	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
8.294	8.294	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
8.297	8.323	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
8.329	8.329	INTERSECTION	RIGHT	UNPAVED ROUTE (MACEDONIA CANYON ROAD) SPUR
8.453	8.453	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
8.485	8.485	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
8.560	8.560	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)

MOJA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0011: KELSO-CIMA ROAD

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FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
8.576	8.589	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
8.590	8.590	INTERSECTION	RIGHT	UNPAVED ROUTE (MACEDONIA CANYON ROAD)
8.601	8.601	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
8.749	8.749	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
8.765	8.765	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
8.783	8.783	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
9.138	9.138	SIGN	RIGHT	REGULATORY, SPEED LIMIT 55
9.154	9.154	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
9.163	9.176	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
9.182	9.182	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
9.526	9.526	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
9.533	9.554	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
9.560	9.560	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
9.947	9.947	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
9.969	9.969	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
9.983	9.997	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
10.007	10.007	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
10.038	10.038	SIGN	RIGHT	REGULATORY, SPEED LIMIT 55
10.222	10.222	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
10.228	10.246	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
10.274	10.274	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
10.551	10.551	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
10.575	10.589	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
10.606	10.606	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
11.211	11.211	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
11.272	11.295	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
11.512	11.512	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
11.557	11.576	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
11.570	11.570	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
11.808	11.808	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)

MOJA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0011: KELSO-CIMA ROAD

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FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
11.993	11.993	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
12.021	12.021	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
12.232	12.282	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
12.407	12.407	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
12.413	12.420	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
12.423	12.423	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
12.481	12.481	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
12.542	12.542	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
12.572	12.572	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
12.936	12.936	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
13.008	13.022	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
13.031	13.031	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
13.258	13.270	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
13.282	13.282	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
13.518	13.518	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
13.630	13.630	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
13.640	13.653	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
13.663	13.663	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
14.111	14.111	SIGN	RIGHT	GUIDE, CAMPGROUNDS MIDHILLS 12 HOLE IN THE WALL 15 HOLE IN THE WALL VISITOR CENTER 16
14.149	14.149	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
14.154	14.170	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
14.187	14.187	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
14.207	14.207	SIGN	RIGHT	REGULATORY, SPEED LIMIT 55
14.232	14.232	SIGN	RIGHT	WARNING, CEDAR CYN RD
14.232	14.232	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
14.320	14.320	INTERSECTION	LEFT	UNPAVED ROUTE
14.322	14.322	SIGN	RIGHT	GUIDE, PROVIDENCE MOUNTAINS STATE RECREATION AREA 45 KM (28 MI)
14.322	14.322	SIGN	LEFT	GUIDE, PROVIDENCE MOUNTAINS STATE RECREATION AREA 45 KM (28 MI)

MOJA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0011: KELSO-CIMA ROAD

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FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
14.339	14.339	INTERSECTION	RIGHT	ROUTE 0016 (CEDAR CANYON ROAD)
14.344	14.344	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
14.344	14.344	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
14.438	14.438	SIGN	RIGHT	WARNING, CEDAR CYN RD
14.438	14.438	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
14.454	14.476	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
14.503	14.503	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
14.551	14.551	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
14.578	14.578	SIGN	RIGHT	GUIDE, CAMPGROUNDS MIDHILLS 12 HOLE IN THE WALL 15 HOLE IN THE WALL VISITOR CENTER 16
14.960	14.960	SIGN	RIGHT	REGULATORY, SPEED LIMIT 55
14.979	14.979	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
15.080	15.080	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
15.315	15.315	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
15.331	15.344	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
15.359	15.359	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
15.645	15.645	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
15.701	15.701	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
15.723	15.723	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
15.742	15.760	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
15.773	15.773	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
16.181	16.181	SIGN	RIGHT	WARNING, 50 MPH
16.181	16.181	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
16.234	16.234	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
16.250	16.264	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
16.286	16.286	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
16.444	16.444	SIGN	RIGHT	WARNING, 50 MPH
16.444	16.444	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
16.591	16.591	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
16.700	16.700	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)

MOJA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0011: KELSO-CIMA ROAD

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FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
16.728	16.743	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
16.753	16.753	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
17.067	17.067	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
17.152	17.152	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
17.255	17.255	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
17.287	17.287	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
17.318	17.318	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
17.492	17.492	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
17.492	17.492	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
17.593	17.593	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
17.888	17.888	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
17.894	17.894	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
17.962	17.962	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
18.157	18.157	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
18.199	18.199	SIGN	RIGHT	WARNING, DIPS
18.199	18.199	SIGN	RIGHT	WARNING, NEXT 15 MILES
18.455	18.455	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
18.623	18.623	SIGN	RIGHT	REGULATORY, SPEED LIMIT 55
18.634	18.634	INTERSECTION	LEFT	UNPAVED ROUTE (PRIVATE)
18.667	18.667	SIGN	RIGHT	REGULATORY, SPEED CHECKED BY RADAR
18.681	18.681	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
18.689	18.689	SIGN	RIGHT	WARNING, NEXT 19 MILES
18.689	18.689	SIGN	RIGHT	WARNING, FLOODED
18.696	18.696	SIGN	RIGHT	WARNING, EXEMPT
18.696	18.696	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
18.713	18.713	SIGN	RIGHT	WARNING, SUBJECT TO FLOODING
18.733	18.733	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
18.756	18.756	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
18.761	18.761	INTERSECTION	LEFT	UNPAVED PARKING (CIMA POST OFFICE)
18.789	18.789	INTERSECTION	LEFT	UNPAVED PARKING (CIMA POST OFFICE)

MOJA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0011: KELSO-CIMA ROAD

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FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
18.793	18.793	SIGN	RIGHT	GUIDE, I-15 22 NIPTON 25 TEUTONIA PEAK 6
18.809	18.809	INTERSECTION	LEFT	UNPAVED PARKING (CIMA POST OFFICE)
18.824	18.824	SIGN	LEFT	REGULATORY, RAILROAD CROSSING
18.824	18.824	SIGN	RIGHT	REGULATORY, RAILROAD CROSSING
18.830	18.830	RAILROAD CROSSING	N/A	
18.877	18.877	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
18.885	18.885	SIGN	RIGHT	WARNING, EXEMPT
18.885	18.885	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
18.889	18.889	SIGN	RIGHT	WARNING, EXEMPT
18.889	18.889	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
18.916	18.916	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
18.931	18.931	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
18.935	18.935	SIGN	RIGHT	GUIDE, 15 18
18.938	18.938	SIGN	RIGHT	REGULATORY, RAILROAD CROSSING
18.939	18.939	SIGN	LEFT	REGULATORY, RAILROAD CROSSING
18.940	18.940	RAILROAD CROSSING	N/A	
18.957	18.957	INTERSECTION	LEFT	ROUTE 0012 (CIMA ROAD)
18.959	18.959	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
18.959	18.959	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
18.959	18.959	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
18.959	18.959	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
18.960	18.960	INTERSECTION	N/A	ROUTE 0013 (MORNING STAR MINE ROAD)
18.960	18.960	ROUTE END	N/A	TO ROUTE 0013 (MORNING STAR MINE ROAD) AT MP 18.96 (SIDE N/A)

MOJA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0012: CIMA ROAD

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FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0011 (KELSO-CIMA ROAD) AT MP 18.96 (ON LEFT)
0.000	0.000	SIGN	N/A	GUIDE, UNABLE TO READ FROM VIDEO
0.000	0.000	SIGN	N/A	GUIDE, UNABLE TO READ FROM VIDEO
0.000	0.000	SIGN	N/A	WARNING, GRAPHIC SIGN, NO TEXT
0.000	0.000	SIGN	LEFT	GUIDE, KELSO CIMA RD
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0013 (MORNING STAR MINE ROAD)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0011 (KELSO-CIMA ROAD)
0.000	0.000	SIGN	RIGHT	REGULATORY, STOP
0.000	0.000	SIGN	N/A	WARNING, GRAPHIC SIGN, NO TEXT
0.048	0.048	SIGN	RIGHT	WARNING, SOFT SHOULDER
0.066	0.066	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.079	0.079	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.088	0.088	SIGN	RIGHT	WARNING, 30 MPH
0.088	0.088	SIGN	RIGHT	WARNING, CAUTION THIS ROAD SUBJECT TO FLASH FLOOD
0.088	0.088	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.107	0.107	SIGN	RIGHT	WARNING, DIP
0.109	0.109	SIGN	RIGHT	GUIDE, KELSO
0.110	0.110	INTERSECTION	LEFT	UNPAVED ROUTE
0.133	0.133	SIGN	RIGHT	WARNING, EXEMPT
0.133	0.133	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.181	0.181	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.181	0.181	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.222	0.222	SIGN	RIGHT	WARNING, SUBJECT TO FLOODING
0.274	0.274	SIGN	RIGHT	WARNING, DIP
0.303	0.303	SIGN	RIGHT	WARNING, 30 MPH
0.303	0.303	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.350	0.350	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.471	0.471	SIGN	RIGHT	REGULATORY, SPEED CHECKED BY RADAR
0.532	0.532	SIGN	RIGHT	REGULATORY, SPEED LIMIT 55
0.594	0.594	INTERSECTION	RIGHT	UNPAVED ROUTE

MOJA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0012: CIMA ROAD

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FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
1.396	1.396	INTERSECTION	LEFT	UNPAVED ROUTE (POWER LINE ROAD)
1.400	1.400	INTERSECTION	RIGHT	UNPAVED ROUTE (POWER LINE ROAD)
2.499	2.499	INTERSECTION	LEFT	UNPAVED ROUTE
3.601	3.601	SIGN	RIGHT	WARNING, SOFT SHOULDER
3.603	3.603	SIGN	RIGHT	WARNING, SOFT SHOULDER
4.148	4.148	SIGN	RIGHT	WARNING, 50 MPH
4.148	4.148	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.242	4.242	INTERSECTION	RIGHT	ROUTE 0400 (KESSLER SPRINGS ROAD)
4.327	4.327	SIGN	RIGHT	WARNING, 50 MPH
4.327	4.327	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.664	4.664	INTERSECTION	RIGHT	UNPAVED ROUTE
4.664	4.664	INTERSECTION	LEFT	UNPAVED ROUTE
4.750	4.753	GUARD/GUIDE RAIL	RIGHT	
4.751	4.751	CULVERT	N/A	
4.752	4.755	GUARD/GUIDE RAIL	LEFT	
4.761	4.761	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.761	4.761	CATTLE GUARD	N/A	
4.762	4.762	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.762	4.762	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
4.762	4.762	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
5.206	5.206	INTERSECTION	RIGHT	ROUTE 0400 (KESSLER SPRINGS ROAD)
5.260	5.260	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
5.324	5.339	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
5.353	5.353	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
5.777	5.777	INTERSECTION	RIGHT	UNPAVED ROUTE
6.138	6.138	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
6.138	6.138	SIGN	RIGHT	WARNING, 40 MPH
6.154	6.154	SIGN	RIGHT	GUIDE, HIKING TRAIL 1/4 MILE
6.154	6.154	SIGN	RIGHT	GUIDE, TEUTONIA PARK HIKING TRAIL
6.180	6.180	INTERSECTION	RIGHT	UNPAVED ROUTE

MOJA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0012: CIMA ROAD

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FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
6.299	6.299	INTERSECTION	RIGHT	UNPAVED ROUTE
6.397	6.397	INTERSECTION	LEFT	UNPAVED PARKING (TRAILHEAD TEUTONIA PEAK)
6.450	6.450	SIGN	RIGHT	WARNING, 45 MPH
6.450	6.450	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
6.642	6.642	SIGN	RIGHT	GUIDE, TEUTONIA PARK HIKING TRAIL
6.642	6.642	SIGN	RIGHT	GUIDE, HIKING TRAIL 1/4 MILE
7.650	7.650	SIGN	LEFT	GUIDE, VALLEY VIEW RANCH
7.651	7.651	SIGN	RIGHT	GUIDE, VALLEY VIEW RANCH
7.656	7.656	INTERSECTION	LEFT	ROUTE 0205 (VALLEY VIEW ROAD)
8.146	8.146	SIGN	RIGHT	WARNING, SOFT SHOULDER
8.148	8.148	SIGN	RIGHT	WARNING, SOFT SHOULDER
10.479	10.479	INTERSECTION	LEFT	UNPAVED ROUTE
10.490	10.490	INTERSECTION	RIGHT	UNPAVED ROUTE
10.576	10.576	INTERSECTION	RIGHT	UNPAVED ROUTE
10.624	10.624	INTERSECTION	RIGHT	UNPAVED ROUTE
13.313	13.313	SIGN	RIGHT	WARNING, SOFT SHOULDER
13.316	13.316	SIGN	RIGHT	WARNING, SOFT SHOULDER
15.901	15.901	INTERSECTION	RIGHT	UNPAVED ROUTE (XENO ROAD / PRIVATE)
16.862	16.862	INTERSECTION	LEFT	UNPAVED ROUTE (MONUMENT ROUTE)
17.250	17.250	SIGN	RIGHT	WARNING, SOFT SHOULDER
17.310	17.310	SIGN	RIGHT	REGULATORY, SPEED LIMIT 55
17.318	17.318	SIGN	RIGHT	GUIDE, MOJAVE NATIONAL PRESERVE
17.372	17.372	SIGN	RIGHT	REGULATORY, SPEED CHECKED BY RADAR
17.377	17.377	INTERSECTION	LEFT	UNPAVED ROUTE (PRIVATE)
17.392	17.392	INTERSECTION	LEFT	UNPAVED ROUTE
17.440	17.440	INTERSECTION	RIGHT	UNPAVED ROUTE (TELEPHONE LINE ROAD)
17.452	17.452	INTERSECTION	RIGHT	UNPAVED ROUTE
17.460	17.536	CURB	RIGHT	
17.474	17.530	CURB	LEFT	
17.505	17.505	SIGN	RIGHT	WARNING, CAUTION THIS ROAD SUBJECT TO FLASH FLOOD

MOJA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0012: CIMA ROAD

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FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
17.532	17.538	CURB	LEFT	
17.533	17.533	SIGN	RIGHT	REGULATORY, CLOSED TO THRU COMMERCIAL TRAFFIC
17.540	17.540	INTERSECTION	RIGHT	UNPAVED ROUTE
17.541	17.546	CURB	RIGHT	
17.548	17.554	CURB	LEFT	
17.550	17.550	INTERSECTION	RIGHT	UNPAVED ROUTE
17.563	17.563	INTERSECTION	RIGHT	PAVED PARKING (GAS STATION)
17.564	17.580	CURB	RIGHT	
17.583	17.583	INTERSECTION	RIGHT	PAVED PARKING (GAS STATION)
17.587	17.592	CURB	RIGHT	
17.594	17.594	SIGN	RIGHT	GUIDE, BARSTOW 15 LAS VEGAS
17.599	17.606	CURB	LEFT	
17.605	17.605	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
17.605	17.605	CATTLE GUARD	N/A	
17.606	17.606	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
17.608	17.608	INTERSECTION	LEFT	UNPAVED PARKING (PRIVATE)
17.622	17.622	SIGN	RIGHT	REGULATORY, NO LEFT TURN
17.635	17.635	SIGN	LEFT	GUIDE, 15
17.635	17.635	SIGN	LEFT	GUIDE, FREEWAY ENTRANCE
17.635	17.635	SIGN	LEFT	GUIDE, GRAPHIC SIGN, NO TEXT
17.635	17.635	SIGN	LEFT	GUIDE, NORTH
17.636	17.636	SIGN	LEFT	REGULATORY, ONE WAY
17.637	17.637	SIGN	RIGHT	REGULATORY, ONE WAY
17.640	17.640	SIGN	RIGHT	GUIDE, FREEWAY ENTRANCE
17.640	17.640	SIGN	RIGHT	GUIDE, NORTH
17.640	17.640	SIGN	RIGHT	GUIDE, 15
17.640	17.640	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
17.640	17.640	INTERSECTION	RIGHT	PAVED ROUTE (I-15 ON RAMP)
17.640	17.640	INTERSECTION	N/A	PAVED ROUTE (CIMA ROAD ((STATE MAINTAINED / NON NPS))

MOJA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0012: CIMA ROAD

Notice: Culverts and drop inlets were marked only on select roads and are reflected in the Road Logs. Culverts and drop inlets were inventoried in paved parking areas and can be found in the Parking Lot Condition Rating Sheets (Section 7), and in the Parkwide Maintenance Features Summary (Section 8).

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
17.640	17.640	INTERSECTION	LEFT	PAVED ROUTE (I-15 OFF RAMP)
17.640	17.640	PARK BOUNDARY	N/A	NORTH PARK BOUNDARY
17.640	17.640	ROUTE END	N/A	TO CIMA ROAD (STATE MAINTAINED SECTION) AT CATTLE GUARD

MOJA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0013: MORNING STAR MINE ROAD

Notice: Culverts and drop inlets were marked only on select roads and are reflected in the Road Logs. Culverts and drop inlets were inventoried in paved parking areas and can be found in the Parking Lot Condition Rating Sheets (Section 7), and in the Parkwide Maintenance Features Summary (Section 8).

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM INTERSECTION OF ROUTE 0011 AND ROUTE 0012
0.000	0.000	INTERSECTION	N/A	ROUTE 0011 (KELSO-CIMA ROAD)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0012 (CIMA ROAD)
0.002	0.002	SIGN	RIGHT	GUIDE, KELSO CIMA
0.005	0.005	SIGN	RIGHT	REGULATORY, STOP
0.019	0.019	SIGN	RIGHT	WARNING, 35 M.P.H.
0.019	0.019	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.030	0.030	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)
0.065	0.065	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.106	0.106	INTERSECTION	RIGHT	UNPAVED ROUTE (DEATH VALLEY MINE ROAD)
0.113	0.113	SIGN	RIGHT	WARNING, EXEMPT
0.113	0.113	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.139	0.139	INTERSECTION	RIGHT	UNPAVED ROUTE (DEATH VALLEY MINE ROAD)
0.246	0.246	SIGN	RIGHT	WARNING, 35 M.P.H.
0.246	0.246	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.266	0.266	SIGN	RIGHT	REGULATORY, SPEED CHECKED BY RADAR
0.304	0.304	SIGN	RIGHT	REGULATORY, SPEED LIMIT 55
1.673	1.673	INTERSECTION	LEFT	UNPAVED ROUTE (POWER LINE ROAD)
1.677	1.677	INTERSECTION	RIGHT	UNPAVED ROUTE (POWER LINE ROAD)
1.760	1.760	INTERSECTION	RIGHT	UNPAVED ROUTE (POWER LINE ROAD)
3.846	3.846	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.020	4.020	INTERSECTION	LEFT	UNPAVED ROUTE
4.111	4.111	INTERSECTION	LEFT	UNPAVED ROUTE
4.254	4.254	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
6.357	6.357	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
6.508	6.508	INTERSECTION	RIGHT	UNPAVED ROUTE
6.604	6.604	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
9.266	9.266	INTERSECTION	LEFT	UNPAVED ROUTE (STAR MINE ROAD)
9.300	9.300	INTERSECTION	LEFT	UNPAVED ROUTE (STAR MINE ROAD) SPUR
10.816	10.816	INTERSECTION	LEFT	UNPAVED ROUTE

MOJA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0013: MORNING STAR MINE ROAD

Notice: Culverts and drop inlets were marked only on select roads and are reflected in the Road Logs. Culverts and drop inlets were inventoried in paved parking areas and can be found in the Parking Lot Condition Rating Sheets (Section 7), and in the Parkwide Maintenance Features Summary (Section 8).

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
14.502	14.502	SIGN	RIGHT	REGULATORY, SPEED LIMIT 55
14.532	14.532	SIGN	RIGHT	WARNING, 50 M.P.H.
14.532	14.532	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
14.544	14.544	SIGN	RIGHT	REGULATORY, SPEED CHECKED BY RADAR
14.724	14.724	SIGN	RIGHT	GUIDE, I-15 7 NIPTON 10
14.842	14.842	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
14.842	14.842	SIGN	RIGHT	WARNING, 50 M.P.H.
14.854	14.854	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
14.854	14.854	SIGN	RIGHT	WARNING, IVANPAH RD
14.897	14.897	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
14.898	14.898	CATTLE GUARD	N/A	
14.898	14.898	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
14.899	14.899	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
14.900	14.900	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
14.933	14.933	SIGN	RIGHT	GUIDE, 15 6 MI IVANPAH 7 MI GOFFS 44 MI
14.940	14.940	SIGN	RIGHT	WARNING, CAUTION THIS ROAD SUBJECT TO FLASH FLOOD
14.990	14.990	SIGN	RIGHT	REGULATORY, STOP
14.990	14.990	INTERSECTION	LEFT	ROUTE 0014 (IVANPAH ROAD)
14.990	14.990	INTERSECTION	RIGHT	ROUTE 0014 (IVANPAH ROAD)
14.990	14.990	SIGN	N/A	WARNING, GRAPHIC SIGN, NO TEXT
14.990	14.990	SIGN	N/A	WARNING, GRAPHIC SIGN, NO TEXT
14.990	14.990	SIGN	RIGHT	GUIDE, IVANPAH RD
14.990	14.990	ROUTE END	N/A	TO ROUTE 0014 (IVANPAH ROAD) AT MP 2.74 (ON RIGHT)

MOJA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0014: IVANPAH ROAD

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FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 5003 (IVANPAH ROAD (EXTENSION))
0.000	0.000	INTERSECTION	N/A	ROUTE 5003 (IVANPAH ROAD (EXTENSION))
0.003	0.003	CATTLE GUARD	N/A	
0.003	0.003	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.004	0.004	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
0.005	0.005	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
0.006	0.006	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.110	0.110	INTERSECTION	RIGHT	UNPAVED PARKING (ENTRANCE SIGN)
0.126	0.126	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.229	0.229	INTERSECTION	RIGHT	UNPAVED ROUTE
0.622	0.622	INTERSECTION	RIGHT	UNPAVED ROUTE
0.684	0.684	INTERSECTION	RIGHT	UNPAVED ROUTE
1.524	1.524	INTERSECTION	RIGHT	UNPAVED ROUTE
1.958	1.958	SIGN	RIGHT	WARNING, 45 M.P.H.
1.958	1.958	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.095	2.095	INTERSECTION	RIGHT	UNPAVED ROUTE
2.125	2.125	INTERSECTION	RIGHT	UNPAVED ROUTE SPUR
2.215	2.215	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.215	2.215	SIGN	RIGHT	WARNING, 45 M.P.H.
2.510	2.510	SIGN	RIGHT	GUIDE, CAMPGROUNDS MIDHILLS 31 HOLE IN THE WALL 35 KELSO 34
2.541	2.541	INTERSECTION	RIGHT	UNPAVED ROUTE
2.599	2.599	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.599	2.599	SIGN	RIGHT	WARNING, MORNING STAR MINE RD
2.665	2.665	SIGN	RIGHT	GUIDE, CIMA 16 KELSO 36 AMBOY 76
2.717	2.734	CURB	RIGHT	
2.743	2.743	INTERSECTION	RIGHT	ROUTE 0013 (MORNING STAR MINE ROAD)
2.748	2.748	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
2.748	2.748	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
2.751	2.765	CURB	RIGHT	

MOJA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0014: IVANPAH ROAD

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FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
2.823	2.823	SIGN	RIGHT	GUIDE, CIMA 16 KELSO 36 AMBOY 76
2.889	2.889	SIGN	RIGHT	WARNING, MORNING STAR MINE RD
2.889	2.889	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.938	2.938	SIGN	RIGHT	GUIDE, CAMPGROUNDS MIDHILLS 31 HOLE IN THE WALL 35 KELSO
3.210	3.210	SIGN	RIGHT	WARNING, DIP
3.296	3.317	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
3.384	3.384	SIGN	RIGHT	WARNING, DIP
3.524	3.537	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
3.757	3.768	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
4.238	4.251	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
6.036	6.036	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
6.124	6.124	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
6.124	6.124	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
6.133	6.133	INTERSECTION	LEFT	UNPAVED ROUTE (SADDLE HORN ROAD)
6.203	6.203	INTERSECTION	RIGHT	UNPAVED ROUTE (POWER LINE ROAD)
6.206	6.206	INTERSECTION	LEFT	UNPAVED ROUTE (PRIVATE)
6.225	6.225	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
8.987	8.987	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
8.987	8.987	SIGN	RIGHT	WARNING, 2 TRACKS
9.058	9.058	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
9.059	9.059	CATTLE GUARD	N/A	
9.060	9.060	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
9.061	9.061	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
9.062	9.062	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
9.075	9.075	SIGN	RIGHT	WARNING, 15 MPH
9.075	9.075	SIGN	RIGHT	WARNING, BUMP
9.080	9.080	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
9.109	9.109	INTERSECTION	LEFT	UNPAVED ROUTE (RAILROAD ACCESS)
9.110	9.110	INTERSECTION	RIGHT	UNPAVED ROUTE (RAILROAD ACCESS)

MOJA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0014: IVANPAH ROAD

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FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
9.123	9.123	SIGN	LEFT	REGULATORY, RAILROAD CROSSING
9.123	9.123	SIGN	RIGHT	GUIDE, 2 TRACKS
9.123	9.123	SIGN	RIGHT	REGULATORY, RAILROAD CROSSING
9.123	9.123	TRAFFIC LIGHT	RIGHT	
9.125	9.125	RAILROAD CROSSING	N/A	
9.127	9.127	RAILROAD CROSSING	N/A	
9.132	9.132	TRAFFIC LIGHT	LEFT	
9.132	9.132	SIGN	RIGHT	REGULATORY, RAILROAD CROSSING
9.132	9.132	SIGN	LEFT	REGULATORY, RAILROAD CROSSING
9.132	9.132	SIGN	RIGHT	REGULATORY, 2 TRACKS
9.144	9.144	INTERSECTION	LEFT	UNPAVED ROUTE
9.147	9.147	INTERSECTION	RIGHT	UNPAVED ROUTE
9.181	9.181	SIGN	RIGHT	WARNING, BUMP
9.181	9.181	SIGN	RIGHT	WARNING, 15 MPH
9.268	9.268	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
9.268	9.268	SIGN	RIGHT	WARNING, 2 TRACKS
9.298	9.298	SIGN	RIGHT	WARNING, 25 MPH
9.298	9.298	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
9.322	9.322	SIGN	RIGHT	WARNING, 45 M.P.H.
9.322	9.322	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
9.351	9.351	INTERSECTION	LEFT	UNPAVED ROUTE
9.501	9.501	INTERSECTION	LEFT	UNPAVED ROUTE
9.567	9.567	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
9.567	9.567	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
9.569	9.569	CATTLE GUARD	N/A	
9.569	9.569	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
9.570	9.570	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
9.621	9.621	SIGN	RIGHT	WARNING, 45 M.P.H.
9.621	9.621	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
9.647	9.658	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA

MOJA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0014: IVANPAH ROAD

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FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
9.726	9.726	SIGN	RIGHT	WARNING, NEXT 9 MILES
9.726	9.726	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
9.946	9.970	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
11.366	11.366	SIGN	RIGHT	WARNING, 1000 FT
11.366	11.366	SIGN	RIGHT	WARNING, PAVEMENT ENDS
11.462	11.462	SIGN	RIGHT	WARNING, 40 M.P.H.
11.462	11.462	SIGN	RIGHT	WARNING, ROUGH ROAD
11.566	11.566	SIGN	RIGHT	WARNING, PAVEMENT ENDS
11.570	11.570	INTERSECTION	N/A	ROUTE 0014 (IVANPAH ROAD) UNPAVED SECTION
11.570	11.570	ROUTE END	N/A	TO END OF PAVEMENT

MOJA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0015: LANFAIR ROAD

Notice: Culverts and drop inlets were marked only on select roads and are reflected in the Road Logs. Culverts and drop inlets were inventoried in paved parking areas and can be found in the Parking Lot Condition Rating Sheets (Section 7), and in the Parkwide Maintenance Features Summary (Section 8).

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM SOUTH PARK BOUNDARY AT ROUTE 5004 (LANFAIR ROAD (EXTENSION))
0.000	0.000	INTERSECTION	N/A	ROUTE 5004 (LANFAIR ROAD (EXTENSION))
0.000	0.000	PARK BOUNDARY	N/A	SOUTH PARK BOUNDARY
0.033	0.033	SIGN	RIGHT	GUIDE, MOJAVE NATIONAL PRESERVE
0.058	0.058	INTERSECTION	LEFT	UNPAVED ROUTE
0.064	0.064	INTERSECTION	RIGHT	UNPAVED ROUTE
2.001	2.001	INTERSECTION	LEFT	UNPAVED ROUTE (POWER LINE ROAD)
2.002	2.002	INTERSECTION	RIGHT	UNPAVED ROUTE (POWER LINE ROAD)
4.780	4.780	INTERSECTION	RIGHT	UNPAVED ROUTE
8.463	8.463	INTERSECTION	RIGHT	UNPAVED ROUTE
8.464	8.464	INTERSECTION	LEFT	UNPAVED ROUTE
8.719	8.719	SIGN	RIGHT	GUIDE, NO HUNTING
8.719	8.719	SIGN	RIGHT	GUIDE, VONTRIGGER
8.797	8.797	INTERSECTION	RIGHT	UNPAVED ROUTE
9.033	9.033	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
9.074	9.074	INTERSECTION	RIGHT	UNPAVED ROUTE (PRIVATE)
9.085	9.085	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
9.086	9.086	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
9.087	9.087	INTERSECTION	LEFT	UNPAVED ROUTE (RANCHO MARIA ROAD)
9.129	9.129	INTERSECTION	RIGHT	UNPAVED ROUTE (PRIVATE)
9.209	9.209	INTERSECTION	RIGHT	UNPAVED ROUTE (PRIVATE)
9.300	9.300	SIGN	LEFT	GUIDE, VONTRIGGER
9.531	9.531	SIGN	RIGHT	WARNING, PAVEMENT ENDS
9.531	9.531	SIGN	RIGHT	WARNING, 600 FT
9.650	9.650	INTERSECTION	N/A	ROUTE 0015 (LANFAIR ROAD) UNPAVED SECTION
9.650	9.650	ROUTE END	N/A	TO END OF PAVEMENT

MOJA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0016: CEDAR CANYON ROAD

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FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0011 (KELSO-CIMA ROAD) AT MP 14.34 (ON RIGHT)
0.000	0.000	SIGN	N/A	GUIDE, KELSO DEPOT 14 KELSO DUNES 22 CIMA 5
0.000	0.000	SIGN	N/A	WARNING, GRAPHIC SIGN, NO TEXT
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0011 (KELSO-CIMA ROAD)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0011 (KELSO-CIMA ROAD)
0.000	0.000	SIGN	N/A	WARNING, GRAPHIC SIGN, NO TEXT
0.009	0.009	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
0.009	0.009	SIGN	RIGHT	GUIDE, KELSO CIMA RD
0.009	0.009	SIGN	RIGHT	REGULATORY, STOP
0.009	0.009	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.018	0.018	SIGN	RIGHT	REGULATORY, RAILROAD CROSSING
0.018	0.018	SIGN	LEFT	REGULATORY, RAILROAD CROSSING
0.021	0.021	RAILROAD CROSSING	N/A	
0.026	0.026	SIGN	LEFT	REGULATORY, RAILROAD CROSSING
0.026	0.026	SIGN	RIGHT	REGULATORY, RAILROAD CROSSING
0.032	0.032	SIGN	RIGHT	WARNING, SUBJECT TO FLOODING
0.054	0.054	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.055	0.055	CATTLE GUARD	N/A	
0.055	0.055	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
0.057	0.057	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
0.057	0.057	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.096	0.096	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.144	0.144	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.161	0.161	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.786	0.786	INTERSECTION	RIGHT	UNPAVED ROUTE
2.240	2.240	SIGN	RIGHT	WARNING, 600 FT
2.240	2.240	SIGN	RIGHT	WARNING, PAVEMENT ENDS
2.350	2.350	INTERSECTION	N/A	ROUTE 0016 (CEDAR CANYON ROAD) UNPAVED SECTION
2.350	2.350	SIGN	RIGHT	WARNING, PAVEMENT ENDS

MOJA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0016: CEDAR CANYON ROAD

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FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
2.350	2.350	ROUTE END	N/A	TO END OF PAVEMENT

MOJA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0017: BLACK CANYON ROAD

Notice: Culverts and drop inlets were marked only on select roads and are reflected in the Road Logs. Culverts and drop inlets were inventoried in paved parking areas and can be found in the Parking Lot Condition Rating Sheets (Section 7), and in the Parkwide Maintenance Features Summary (Section 8).

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0018 (ESSEX ROAD) AT MP 9.71 (ON RIGHT)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0018 (ESSEX ROAD)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0018 (ESSEX ROAD)
0.000	0.000	SIGN	N/A	WARNING, GRAPHIC SIGN, NO TEXT
0.000	0.000	SIGN	N/A	WARNING, GRAPHIC SIGN, NO TEXT
0.011	0.011	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
0.011	0.011	SIGN	RIGHT	GUIDE, ESSEX
0.011	0.011	SIGN	RIGHT	REGULATORY, STOP
0.058	0.058	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.108	0.108	SIGN	RIGHT	WARNING, NEXT 19 MILES
0.108	0.108	SIGN	RIGHT	WARNING, SUBJECT TO FLOODING
0.135	0.135	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.282	0.282	INTERSECTION	LEFT	UNPAVED PARKING
0.354	0.354	INTERSECTION	LEFT	UNPAVED ROUTE (POWER LINE ROAD)
0.361	0.361	INTERSECTION	RIGHT	UNPAVED ROUTE (POWER LINE ROAD)
1.417	1.417	INTERSECTION	LEFT	UNPAVED ROUTE
1.988	1.988	INTERSECTION	RIGHT	UNPAVED ROUTE
2.049	2.049	INTERSECTION	RIGHT	UNPAVED ROUTE
2.099	2.099	INTERSECTION	RIGHT	UNPAVED ROUTE
2.420	2.420	SIGN	RIGHT	WARNING, 45 M.P.H.
2.420	2.420	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.865	2.865	SIGN	RIGHT	WARNING, 45 M.P.H.
2.865	2.865	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.126	3.150	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
3.311	3.337	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
3.586	3.607	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
4.139	4.139	SIGN	RIGHT	WARNING, 45 M.P.H.
4.139	4.139	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.156	4.187	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
4.381	4.381	INTERSECTION	LEFT	UNPAVED ROUTE

MOJA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0017: BLACK CANYON ROAD

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FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
4.467	4.467	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
4.467	4.467	SIGN	RIGHT	WARNING, 45 M.P.H.
4.609	4.609	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
5.657	5.657	SIGN	RIGHT	WARNING, 45 M.P.H.
5.657	5.657	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
5.697	5.697	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
5.746	5.746	INTERSECTION	RIGHT	UNPAVED ROUTE (PRIMARY CAMPSITE ROAD)
5.777	5.801	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
6.017	6.017	SIGN	RIGHT	WARNING, 45 M.P.H.
6.017	6.017	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
6.310	6.310	SIGN	RIGHT	WARNING, 35 MPH
6.310	6.310	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
6.574	6.574	SIGN	RIGHT	WARNING, 35 MPH
6.574	6.574	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
6.659	6.682	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
7.937	7.937	INTERSECTION	LEFT	UNPAVED ROUTE
7.988	7.988	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
8.030	8.070	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
8.256	8.256	SIGN	RIGHT	WARNING, 50 M.P.H.
8.256	8.256	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
8.389	8.389	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
8.677	8.677	INTERSECTION	RIGHT	UNPAVED ROUTE
9.034	9.034	INTERSECTION	LEFT	UNPAVED ROUTE
9.037	9.037	INTERSECTION	RIGHT	UNPAVED ROUTE
9.551	9.551	INTERSECTION	LEFT	UNPAVED ROUTE (HOLE IN THE WALL CANYON)
9.679	9.679	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
9.770	9.770	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
9.771	9.771	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
9.772	9.772	CATTLE GUARD	N/A	
9.773	9.773	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT

MOJA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0017: BLACK CANYON ROAD

Notice: Culverts and drop inlets were marked only on select roads and are reflected in the Road Logs. Culverts and drop inlets were inventoried in paved parking areas and can be found in the Parking Lot Condition Rating Sheets (Section 7), and in the Parkwide Maintenance Features Summary (Section 8).

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
9.774	9.774	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
9.779	9.779	INTERSECTION	LEFT	UNPAVED ROUTE (HOLE IN THE WALL ROAD)
9.780	9.780	INTERSECTION	RIGHT	ROUTE 0215 (HOLE IN THE WALL FIRE CENTER ROAD)
9.783	9.783	SIGN	RIGHT	GUIDE, HOLE IN THE WALL FIRE CENTER GROUP AND EQUESTRAIN CAMPGROUND
9.784	9.784	SIGN	LEFT	GUIDE, HOLE IN THE WALL FIRE CENTER GROUP AND EQUESTRAIN CAMPGROUND
9.788	9.788	SIGN	LEFT	GUIDE, HOLE IN THE WALL VISITOR CENTER
9.788	9.788	SIGN	RIGHT	GUIDE, HOLE IN THE WALL VISITOR CENTER
9.803	9.803	SIGN	RIGHT	GUIDE, CAMPGROUND 1/4
9.927	9.927	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
9.948	9.948	INTERSECTION	RIGHT	ROUTE 0215 (HOLE IN THE WALL FIRE CENTER ROAD) SPUR
10.028	10.028	SIGN	RIGHT	WARNING, 600 FT
10.028	10.028	SIGN	RIGHT	WARNING, PAVEMENT ENDS
10.043	10.043	INTERSECTION	LEFT	ROUTE 0212 (HOLE IN THE WALL CAMPGROUND ROAD)
10.046	10.046	INTERSECTION	RIGHT	UNPAVED ROUTE
10.047	10.047	SIGN	LEFT	GUIDE, HOLE IN THE WALL CAMPGROUND
10.047	10.047	SIGN	RIGHT	GUIDE, HOLE IN THE WALL CAMPGROUND
10.150	10.150	INTERSECTION	N/A	ROUTE 0017 (BLACK CANYON ROAD) UNPAVED SECTION
10.150	10.150	ROUTE END	N/A	TO END OF PAVEMENT

MOJA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0018: ESSEX ROAD

Notice: Culverts and drop inlets were marked only on select roads and are reflected in the Road Logs. Culverts and drop inlets were inventoried in paved parking areas and can be found in the Parking Lot Condition Rating Sheets (Section 7), and in the Parkwide Maintenance Features Summary (Section 8).

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM SOUTH PARK BOUNDARY AT CATTLE GUARD
0.000	0.000	SIGN	RIGHT	GUIDE, NEEDLES 40 BARSTOW
0.000	0.000	PARK BOUNDARY	N/A	SOUTH PARK BOUNDARY
0.000	0.000	INTERSECTION	N/A	PAVED ROUTE (ESSEX ROAD)
0.067	0.067	SIGN	RIGHT	WARNING, SUBJECT TO FLOODING
0.067	0.067	SIGN	RIGHT	WARNING, NEXT
0.124	0.124	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.437	0.437	INTERSECTION	RIGHT	PAVED PARKING (ENTRANCE SIGN / TURNAROUND)
0.461	0.461	INTERSECTION	RIGHT	PAVED PARKING (ENTRANCE SIGN / TURNAROUND)
0.471	0.471	SIGN	RIGHT	GUIDE, MOJAVE NATIONAL PRESERVE
0.765	0.765	SIGN	RIGHT	GUIDE, CAMPGROUNDS HOLE IN THE WALL 20 MIDHILLS 28 MITCHELL CAVERNS 15
1.664	1.664	INTERSECTION	RIGHT	UNPAVED ROUTE
2.168	2.168	INTERSECTION	LEFT	UNPAVED ROUTE (HIDDEN HILL)
9.558	9.558	SIGN	RIGHT	WARNING, BLACK CYN
9.558	9.558	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
9.588	9.588	SIGN	RIGHT	GUIDE, CAMPGROUNDS HOLE IN THE WALL 10 MIDHILLS 18 MITCHELL CAVERNS 6
9.602	9.602	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
9.645	9.645	SIGN	RIGHT	WARNING, SUBJECT TO FLOODING
9.645	9.645	SIGN	RIGHT	WARNING, NEXT 10 MILES
9.706	9.706	INTERSECTION	LEFT	UNPAVED ROUTE (BROTHER CANYON)
9.706	9.706	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
9.706	9.706	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
9.710	9.710	INTERSECTION	RIGHT	ROUTE 0017 (BLACK CANYON ROAD)
9.721	9.721	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
9.721	9.721	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
9.727	9.727	INTERSECTION	RIGHT	UNPAVED PARKING
9.737	9.737	SIGN	RIGHT	GUIDE, MITCHELL CAVERNS NATURAL PRESERVE TOUR HOURS WEEKDAYS 1:30 PM WEEKENDS & HOLIDAYS 10:00 AM 1:30 PM 2
9.737	9.737	SIGN	RIGHT	GUIDE, FEE AREA SELF REGISTRATION REQUIRED

MOJA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0018: ESSEX ROAD

Notice: Culverts and drop inlets were marked only on select roads and are reflected in the Road Logs. Culverts and drop inlets were inventoried in paved parking areas and can be found in the Parking Lot Condition Rating Sheets (Section 7), and in the Parkwide Maintenance Features Summary (Section 8).

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
9.750	9.750	SIGN	RIGHT	WARNING, NEXT 4 MILES
9.750	9.750	SIGN	RIGHT	WARNING, SUBJECT TO FLOODING
9.831	9.831	SIGN	RIGHT	WARNING, 50 M.P.H.
9.831	9.831	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
9.864	9.864	SIGN	RIGHT	WARNING, BLACK CYN
9.864	9.864	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
10.005	10.005	SIGN	RIGHT	GUIDE, NATIONAL PARK SERVICE HOLE IN THE WALL 10 MI MIDHILLS 19 MI
10.005	10.005	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
10.102	10.102	INTERSECTION	RIGHT	UNPAVED ROUTE (POWER LINE ROAD)
10.107	10.107	INTERSECTION	LEFT	UNPAVED ROUTE (POWER LINE ROAD)
10.548	10.548	INTERSECTION	RIGHT	UNPAVED ROUTE (RANCH ROAD)
10.565	10.565	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
10.565	10.565	SIGN	RIGHT	GUIDE, ESSEX
10.566	10.566	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
10.942	10.942	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
11.249	11.249	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
13.767	13.767	SIGN	RIGHT	WARNING, NEXT 4 MILES
13.767	13.767	SIGN	RIGHT	WARNING, SUBJECT TO FLOODING
13.781	13.781	SIGN	RIGHT	GUIDE, PROVIDENCE MOUNTAINS STATE RECREATION AREA 38200
13.783	13.783	SIGN	LEFT	GUIDE, UNABLE TO READ FROM VIDEO
13.790	13.790	CATTLE GUARD	N/A	
13.790	13.790	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
13.790	13.790	SIGN	LEFT	WARNING, GRAPHIC SIGN, NO TEXT
13.790	13.790	INTERSECTION	N/A	PAVED ROUTE (ESSEX ROAD)
13.790	13.790	PARK BOUNDARY	N/A	CA STATE PARK
13.790	13.790	ROUTE END	N/A	TO CA STATE PARK BOUNDARY AT CATTLE GUARD

MOJA: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0100: ZZYZX ROAD

Notice: Culverts and drop inlets were marked only on select roads and are reflected in the Road Logs. Culverts and drop inlets were inventoried in paved parking areas and can be found in the Parking Lot Condition Rating Sheets (Section 7), and in the Parkwide Maintenance Features Summary (Section 8).

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM INTERSTATE 15
0.000	0.000	INTERSECTION	LEFT	PAVED ROUTE (I-15 ON RAMP)
0.000	0.000	INTERSECTION	N/A	PAVED ROUTE (ARROWHEAD TRAIL ROAD)
0.000	0.000	INTERSECTION	RIGHT	PAVED ROUTE (I-15 OFF RAMP)
0.007	0.145	CURB	LEFT	
0.012	0.012	CATTLE GUARD	N/A	
0.167	0.167	SIGN	RIGHT	GUIDE, MOJAVE NATIONAL PRESERVE
0.454	0.454	INTERSECTION	LEFT	UNPAVED ROUTE
0.502	0.502	SIGN	RIGHT	GUIDE, MOJAVE NATIONAL PRESERVE
0.510	0.510	INTERSECTION	N/A	ROUTE 0100 (ZZYZX ROAD) UNPAVED SECTION
0.510	0.510	ROUTE END	N/A	TO END OF PAVEMENT

Mojave National Preserve



Section 10 Appendix

APPENDIX A: GLOSSARY OF TERMS AND ABBREVIATIONS

TERM OR ABBREVIATION	DESCRIPTION OR DEFINITION
AADT	(Annual Average Daily Traffic) The estimate of typical daily traffic on a road segment for all days of the week over the period of one year.
CRS	Condition Rating Sheets. (Section 5)
Excellent	Excellent rating with an index value of 95 or greater
Fair	Fair rating with an index value from 61 to 84
Func. Class	Functional Classification (see Route ID, Section 4)
Good	Good rating with an index value from 85 to 94
IRI	International Roughness Index
Lane Width	Width from road centerline to fogline, or from centerline to edge-of-pavement when no fogline exists
MRR	Manually Rated Route
N/A	Not Applicable
NC	Not Collected
Paved Width	Width from edge-of-pavement to edge-of-pavement
PCR	Pavement Condition Rating (Appendix B, Section 10)
Poor	Poor Rating with an index value of 60 or less
RCI	Roughness Condition Index
SADT	(Seasonal Annual Daily Traffic) The AADT adjusted to represent just the period of the year containing 80 percent of the total annual traffic.
SCR	Surface Condition Rating (Appendix B, Section 10)
Shoulder Width	Distance from fogline to hinge point, or if no fogline, from edge-of-pavement to hinge point.

APPENDIX B: DESCRIPTION OF RATING SYSTEM

A numerical roadway rating system is used to describe the overall condition of the paved roadways and paved parking areas. In this system, a numerical rating between 0 and 100 is ascribed to each 0.02 miles of road. This numerical rating is called a Pavement Condition Rating (PCR). A “perfect” road, newly constructed with no surface distresses and a smooth surface, would be assigned a PCR rating of 100. Based on the type, severity, and extent of surface distresses points are deducted from 100 to arrive at the final PCR.

Data is collected on the following distresses and conditions:

- **Alligator Cracking** - a series of interconnecting cracks resembling alligator skin or chicken wire, which can occur anywhere in the lane.
- **Longitudinal Cracking** - cracks which are parallel to the pavement centerline or asphalt lay-down direction.
- **Transverse Cracking** - cracks perpendicular to the pavement centerline.
- **Pothole (patch)** - a bowl-shaped hole in the pavement surface. May be patched or not.
- **Rutting** - surface depressions in the wheel paths.
- **Roughness** is collected as International Roughness Index (IRI) and is used in the PCR formula. Roughness is measured in inches of vertical displacement of the vehicle per mile traveled.

A Distress Rating Index value is calculated for each of the individual distresses at the 0.02 mile, or every 105.6 feet.

Calculation of Index Values

Note: Index values < 0 default to 0. Index values > 100 default to 100.

For all indices, a higher value indicates a better road condition, and a lower value indicates a poorer road condition.

All severity protocols are taken from the SHRP Distress Identification Manual.

Condition Ranges for all Indices

Excellent	>=95
Good	>=85 and <95
Fair	>60 and <85
Poor	<=60

Alligator Crack Index

$$AC_INDEX = 100 - 40 * [(\%LOW / 70) + (\%MED / 30) + (\%HI / 10)]$$

Where :

The values %LOW, %MED and %HI describe the percent of the total WX measured area that is affected by alligator cracking of each severity level. These values range from ≥ 0 to ≤ 100 .

$\%LOW$ = (Total square area WX measured low severity alligator cracking) / (Section length * WX measured lane width)

$\%MED = (\text{Total square area WX measured medium severity alligator cracking}) / (\text{Section length} * \text{WX measured lane width})$

$\%HI = (\text{Total square area WX measured high severity alligator cracking}) / (\text{Section length} * \text{WX measured lane width})$

The denominators 70, 30, and 10 are the maximum allowable extents for the numerator value in the same units. For example, low severity alligator cracking totaling 70% of the measured section area would alone fail that section of road for this index.

The threshold for failure for this index is $AC_INDEX = 60$.

Severity Levels:

Low severity alligator cracking describes an area of cracks with no or only a few connecting cracks; cracks are not spalled (cracked, broken, chipped, frayed along the cracks); pumping (water seepage from beneath the pavement through the cracks) is not evident. Any sealed alligator cracks are low severity alligator cracks, as long as the sealant is still in good condition. If the sealant has reopened, and the crack is visible and can be measured, the crack severity is assigned according to that measurement.

Medium severity alligator cracking describes an area of interconnected cracks forming a complete pattern; cracks may be slightly spalled; pumping is not evident.

High severity alligator cracking describes an area of moderately or severely spalled interconnected cracks forming a complete pattern; pieces may move when subjected to traffic; pumping may be evident.

Longitudinal Crack Index

$LC_INDEX = 100 - 40 * [(\%LOW / 350) + (\%MED / 200) + (\%HI / 75)]$

Where:

The values %LOW, %MED and %HI describe the length of longitudinal cracking of each severity as a percent of the section length. These values are ≥ 0 and can exceed 100.

$\%LOW = (\text{Total linear feet WX measured low severity longitudinal cracking}) / (\text{Section length in linear feet})$

$\%MED = (\text{Total linear feet WX measured medium severity longitudinal cracking}) / (\text{Section length in linear feet})$

$\%HI = (\text{Total linear feet WX measured high severity longitudinal cracking}) / (\text{Section length in linear feet})$

The denominators 350, 200, and 75 are the maximum allowable extents for the numerator value in the same units. For example, medium severity longitudinal cracking with a total length that is 200% of the length of the section would alone fail that section of road for this index.

The threshold for failure for this index is $LC_INDEX = 60$.

Severity Levels:

Low severity longitudinal cracks have a mean width $\leq 1/4''$, or are sealed cracks of indeterminate width whose sealant material is in good condition.

Medium severity longitudinal cracks have a mean width $> 1/4''$ and $\leq 3/4''$.

High severity longitudinal cracks have a mean width $> 3/4''$.

Transverse Crack Index

$$TC_INDEX = 100 - \{[20 * ((LOW / 15.1) + (MED / 7.5))] + [40 * (HI / 1.9)]\}$$

Where:

The values **LOW**, **MED** and **HI** describe a count of the total number of transverse cracks of each severity level, where one transverse crack unit is equal to the WX measured lane width. These values are ≥ 0 .

LOW = (Total linear feet WX measured low severity transverse cracking) / (WX measured lane width)

MED = (Total linear feet WX measured medium severity transverse cracking) / (WX measured lane width)

HI = (Total linear feet WX measured high severity transverse cracking) / (WX measured lane width)

The denominators **15.1**, **7.5**, and **1.9** are the maximum allowable extents for the numerator value in the same units. For example, high severity transverse cracking with a total length that amounts to 1.9 times the WX measured lane width would alone fail that section of road for this index.

The threshold for failure for this index is $TC_INDEX = 60$.

Severity Levels:

Low severity transverse cracks have a mean width $\leq 1/4$ " , or are sealed cracks of indeterminate width whose sealant material is in good condition.

Medium severity transverse cracks have a mean width $> 1/4$ " and $\leq 3/4$ " .

High severity transverse cracks have a mean width $> 3/4$ " .

Patching Index

$$PATCH_INDEX = 100 - 40 * (%PATCHING / 80)$$

Where:

The value **%PATCHING** describes the percent of the total WX measured area that is affected by patching. This value ranges from ≥ 0 to ≤ 100 .

%PATCHING = (Total area WX measured patching) / (Section length * WX measured lane width)

The denominator **80** is the maximum allowable extent for the numerator value in the same units. Patching totaling 80% or more of the measured section area fails a section of road for this index.

The threshold for failure for this index is $PATCH_INDEX = 60$.

There are no severity levels for patching.

Rutting Index

$$RUT_INDEX = 100 - 40 * [(%LOW / 160) + (%MED / 80) + (%HI / 40)]$$

Where:

10 ARAN rut depth measurements are taken per full .02 section for each of 2 wheel paths (left and right), resulting in a total of 20 measurements taken for both wheel paths. The values %LOW, %MED and %HI describe the number of ARAN rut depth measurements of both wheel paths in the section whose values are of each severity level, calculated as a percentage of the total number of ARAN rut depth measurements taken for a single wheel path in the section. These values range from ≥ 0 to ≤ 200 .

%LOW = (Total number of ARAN measured low severity ruts in section for both wheel paths) / (Total number of ARAN rut measurements in section for a single wheel path)

%MED = (Total number of ARAN measured medium severity ruts in section for both wheel paths) / (Total number of ARAN rut measurements in section for a single wheel path)

%HI = (Total number of ARAN measured high severity ruts in section for both wheel paths) / (Total number of ARAN rut measurements in section for a single wheel path)

The denominators 160, 80, and 40 are the maximum allowable extents for the numerator value in the same units. For example, low severity ruts recorded in 16 of the 20 total readings (or 160% of a full wheel path's worth of readings) for a full .02 section would fail that section for this index.

The threshold for failure for this index is RUT_INDEX = 60.

Severity Levels:

Ruts with an ARAN measured depth $< 0.20''$ are not included in the distress calculations.

Low severity ruts have an ARAN measured depth $\geq 0.20''$ and $\leq 0.49''$.

Medium severity ruts have an ARAN measured depth $\geq 0.50''$ and $\leq 0.99''$.

High severity ruts have an ARAN measured depth $\geq 1.00''$.

Roughness Condition Index

$$RCI = 32 * [5 * (2.718282 ^ (-0.0041 * AVG IRI))]$$

Where:

The value AVG IRI describes the average value of the Left IRI and Right IRI measurements for the section. This value can range from approximately 40 to over 1000.

$$AVG IRI = (ARAN \text{ measured Left IRI} + ARAN \text{ measured Right IRI}) / 2$$

There is no applicable threshold for failure for this index.

NOTE: Collection of roughness data is dependent on the data collection vehicle traveling at a minimum speed of 12 mph. In the event that a route cannot be safely traveled at this minimum speed, and results in no roughness data, the SCR only will be calculated.

Surface Condition Rating Index

$$SCR = 100 - [(100 - AC_INDEX) + (100 - LC_INDEX) + (100 - TC_INDEX) + (100 - PATCH_INDEX) + (100 - RUT_INDEX)]$$

Where:

See above for determinations of [AC_INDEX](#), [LC_INDEX](#), [TC_INDEX](#), [PATCH_INDEX](#) and [RUT_INDEX](#).

The threshold for failure for this index is $SCR = 60$.

Pavement Condition Rating Index Asphaltic Concrete Pavement (AS)

$$PCR = (0.60 * SCR) + (0.40 * RCI)$$

Where:

See above for determinations of [SCR](#) and [RCI](#).

The values [0.60](#) and [0.40](#) function as weights within the formula.

If [SCR](#) equals zero (which means that the road surface condition is very poor), then the formula simply reduces to: $PCR = 0.40 * RCI$.

If [RCI](#) equals zero (which means that this value was not available for some reason), then the formula becomes: $PCR = SCR$.

The threshold for failure for this index is $PCR = 60$.

Pavement Condition Rating Index Portland Cement Concrete Pavement (CO)

$$\text{Concrete PCR} = -0.0012(IRI^2) + 0.0499(IRI) + 99.542$$

Where:

The threshold for failure for this index is $PCR = 60$.

Parking Lot and Manually Rated Road Condition Rating

Surface Condition Distresses- Chip Seal:

- Raveling – loss of surface rock chips revealing previous surface
- Bleeding – asphalt or tar is bleeding through to the surface where surface looks slick with asphalt
- Rutting
- Potholes/Patching

Ratings - Chip Seal:

- Excellent – None of the surface affected by the above (recently constructed)
- Good – Less than 10% of surface affected by the above
- Fair – Between 10% and 40% of surface affected by the above
- Poor – More than 40% of surface affected by the above

Surface Condition - Asphalt:

- Cracking of any type
- Rutting
- Potholes/Patching

Ratings - Asphalt:

Excellent – None of the surface affected by the above (recently constructed)

Good – Less than 10% of surface affected by the above

Fair – Between 10% and 40% of surface affected by the above

Poor – More than 40% of surface affected by the above

Index Values of Visual Ratings on Parking Lots and Manually Rated Roads

Under Construction 100

Excellent 97

Good 90

Fair 73

Poor 45

APPENDIX C: GENERAL INFORMATION ON RIP SYSTEMS

DMI (Distance Measuring Instrument)

The DMI (Distance Measuring Instrument) obtains road length measurements that are highly accurate (to 0.001 miles). The DMI is connected to the outside of the rear wheel on the driver's side, and is wired into the antilock braking system (ABS). The number of pulses recorded for each wheel rotation by the ABS is registered by the DMI, which transmits a measurement of distance traveled to the processing computers in the ARAN. The DMI distance measurements are the foundation to which all the other subsystems are tied.

Digital Image Information

All images collected in Cycle 4 are digital images in .jpg format. These images provide adequate resolution for identifying sign and feature inventories and pavement evaluations. The images can be viewed with an interactive software program called VisiData. Each park will receive a copy of the VisiData program. Cycle 4 data, as well as Cycle 3 data, can be viewed using the Visi-Data software program. This program is a data presentation and analysis tool that can be accessed either at the individual park, park region or at NPS headquarters. The data is organized in a hierarchical manner and presented in tabular and graphical formats. The user is able to perform queries and drill down through the data to find the particular information they are looking for. Associated digital right-of-way images from either the LAN, USB port, individual DVD can be presented along with GPS locations.

Right-of-way (ROW) Video

Three digital cameras are mounted above the vehicle's windshield that point directly forward and slightly to the left and right. These cameras each collect one image every 0.002 miles (10.56 feet) in the primary-direction lane, to give a panoramic field-of-view of about 160 degrees. (Forward-facing video from the center camera only is collected in the opposite-direction lane of travel.)

If data collection speed exceeds 35-40 mph, the network and storage computers may become overwhelmed and may begin to drop individual video frames. Occasional common video quality issues include sun glare and rapid changes between sunlight and shadow. The camera system is equipped with auto risers that sometimes cannot adjust quickly enough to collect optimal video images.

FHWA ARAN CAMERA SPECIFICATIONS	
Forward-Facing Cameras (ROW)	
Focal length	10 mm
Chip size	8.71mm X 6.90mm
Naming convention of each image	chainage.jpg
Image resolution	1300 X 1030
Image pixel size	depends on distance
Relative position of the GPS unit to each camera	2.104 meters from front-center rutbar to camera
<i>The ARAN has a lever arm setting which tells the POS system where the center of the rutbar is with respect to the GPS antennas.</i>	

Pavement Video

Pavement video images are collected by the data collection vehicle to use in later analysis to determine extents and severities of different types of pavement distress. The pavement in the primary-direction road lane is filmed continuously by two analog cameras attached to booms extended from the rear of the ARAN on the left and right sides. Strobe lights fire synchronously with the opening of the camera shutters to eliminate shadows and motion blur. The images from the two cameras overlap, and are stitched together in real time to create a continuous strip image of the pavement in the primary direction lane. This strip has a maximum width of 3.0 meters (actual width depends on pavement camera calibration) and is sectioned for ease of file management every 0.010 miles (52.8 feet).

The cameras both have a resolution of 640 x 480, making the threshold of visible pavement cracks about 3 mm. Because the cameras are triggered by time and not distance traveled, this subsystem requires a minimum operating speed of 6 mph, otherwise images are taken on top of one another and result in checkered or black pavement video.

FHWA ARAN CAMERA SPECIFICATIONS	
Pavement Cameras	
Image Pixel size	3.135 mm /side
Image Resolution	640 X 480
Area that images cover	1.5 m X 1.2 m
Full color or grayscale	grayscale
Vehicle speed limitations	80km/h
Aperture setting	Auto-iris
Exposure setting	1/50000

FHWA ARAN GPS & Inertial System

GPS is collected by a NovAtel MiLlennium, 12 channel, dual frequency L1/L2, DGPS ready receiver with a MiLlennium 502 GPS antenna. An OmniStar 3000 LR provides real-time differential correction. An Applanix POS/LV is the inertial system that fills in when GPS is unavailable. The antenna is mounted in the center of the roof, slightly toward the rear of the vehicle, but a lever arm is applied to place the operational location of GPS recording at the center of the rutbar on the front bumper of the vehicle. Expected accuracy under ideal conditions is sub meter.

GPS Collected on Manually Rated Routes

Parking areas and roads that are not fully drivable with the ARAN data collection vehicle are collected manually by field technicians. GPS is collected for these routes using GPS field data collection utilizes Trimble ProXRS or ProXH Receivers matched with Trimble TSC1 or Ranger handheld Data Loggers, connected to Trimble Hurricane Antennas giving sub meter accuracy in ideal conditions. This collection equipment has varied as technology has improved over the years of RIP data collection. Some GPS files collected as early as 1998 have been verified for accuracy and perpetuated through the current cycle of data collection.

GPS SHAPEFILES

Type of Route and Collection Shape Filename		
Roads driven by ARAN	Line	park_road_04.dbf/.shp/.shx
Parking Areas	Polygon	park_pkg_04.dbf/.shp/.shx
Roads Manually Rated as Lines (not in every park)	Line	park_mrl_04.dbf/.shp/.shx
Roads Manually Rated as Polygons (not in every park)	Polygon	park_mrp_04.dbf/.shp/.shx

- Datum for all GPS shapefiles is LL_WGS84_DD (Latitude Longitude _World Geodetic Survey 1984_Decimal Degrees)
- In filename, “park” is NPS four-letter alphabetic code.
- The source for route data required for data processing and report production is the PARK_RouteInfo.mdb.

Condition Photos Taken of Manually Rated Roads

One or more digital photos are taken by Canon Power Shot G2 4.0 Mega Pixel digital camera for each manually rated route in a National Park. They are stored in .jpg format named with the four-letter NPS park alphabetic code, route number, and the photo number assigned by the camera. For example, YOSE_0900_4434.jpg is the filename of the photo named 4434 by the camera that was taken of Yosemite National Park route 0900.

Scenic Photos

Scenic photos are taken by Canon Power Shot G2 4.0 Mega Pixel digital camera throughout each park and are named with the four-letter NPS park alphabetic code and the count of the photo taken in that park. For example, GRCA003.jpg is the filename of the third scenic photo taken in Grand Canyon National Park. The number of scenic photos provided will vary between parks.

APPENDIX D: METADATA

FHWA – NPS Road Inventory Program Cycle 4 Metadata

The purpose of these sheets is to provide users of the Road Inventory Program's data with data accuracies and tolerances to help users define ways in which the RIP data can and cannot be used. For further information on specifics of data collection equipment, data collection procedures, equipment calibrations, or quality control/quality assurance procedures, please contact Jim Kennedy, Project Manager, Data Quality Assurance, at 720-963-3560 or jim.kennedy@fhwa.dot.gov.

All Road Inventory Program data undergoes quality control and quality assurance testing. This document represents the known data accuracies and tolerances for the data collection equipment, data collection procedures, and data processing procedures currently in use. Many additional tests conducted on the park databases during the quality assurance phase to ensure data integrity are not listed as a part of this document. Before it is delivered, a park database undergoes a large set of table design consistency, field data format consistency, data completeness, uniqueness of key fields, data reasonableness, acceptable data range, within-field data consistency, between-field data consistency, and between-table data consistency tests. Additional data sampling checks are conducted to ensure proper data upload from raw files into the park database and to quality check the pavement crack analysis. Further information is detailed in the FHWA – NPS RIP Quality Assurance Manual, available upon request.

This description of metadata includes only the known accuracies with which a data field matches its expected value. The tables that follow this page show each database field's:

- Field – field name
- Format – data type and number of characters of field
- Expected Value – meaning of value assigned to field
- Source – when in process field value obtained
- Validation – how field value obtained
- Expected Accuracy – accuracy with which contents of field match Expected Value

Verifying and continually improving the accuracy of Road Inventory Program data is an ongoing goal of the Federal Highway Administration and the National Park Service. Field testing and post-collection analysis of ARAN (Automatic Road ANalyzer) -collected data will continue in Cycle 4. Data quality is expected to improve as the FHWA – NPS Road Inventory Program continues to operate, due to the fact that future data collection cycles will consist in large part of data updates. Also, technological improvements are expected to render the data increasingly consistent with actual roadway conditions as data collection cycles progress.

Specific Caveats

- MUTCD based on contents & colors of sign, not on size
- Database records that show a Portland Cement Concrete (CO) surface type sometimes include distress index values that seem to show a perfect roadway. Condition assessments on concrete pavements are not conducted for Alligator Cracking, Transverse or Longitudinal Cracking, Patching, or Rutting. Perfect values for concrete road sections for these indexes are default values and do not represent a condition assessment of the concrete surfaces.
- On the USB drive, in the Database folder, parks are provided with intersection lists and exceptions lists. These documents should be treated as raw files and are not accurate. Refer to the final database for accurately post-processed intersection data.
- Most roadway data is collected in the primary direction lane of a roadway. To save data storage space and to reduce data analysis efforts, the assumption was made that the paved surface condition of a route's primary lane adequately represents the surface condition of the full roadway. Therefore, in the database, opposite-direction records in the PMS_Tenth table do not include assessed values for roadway surface distresses. Values such as 0, N/A, -1, or a repeat of the primary-direction assessed value indicate that no assessment was performed. The PMS_20 and PMS_Mile tables simply exclude all opposite routes.

- Roadway Data is collected in intervals of 0.010 miles (52.8feet) constituting a “station”.
- Most roadway features are collected relative to the primary direction lane of a roadway, using the primary-direction video and mileage. Signs and Mile Markers are the only features collected using the opposite-direction video with mileage location referenced to the primary direction lane of the roadway.
- Route_GPS table contains GPS positional information collected by the ARAN and post processed with Applanix POSPac Land 5.0 post-processing software. No manual adjustments have occurred on this table.
- Modifications to the Park_ROAD_04.dbf/.shp/.shx files may have been necessary for report esthetics.
- Modifications to the Park_PKG_04.dbf/.shp/.shx files may have been necessary for report esthetics.
- Cycle 4 utilizes the Microsoft Office 2003 suite of products and Crystal Reports XI for document and data file generation and reporting.
- All PDF files are in Adobe Acrobat 7.0 Professional format.
- All ArcGIS files are created using ESRI Version 9.x software.
- Thumbnail images are created at 1/10 original image size for Right-of-Way and Pavement Images.
- FHWA is investigating the rutting methodology and calculated values it currently reports. Equipment limitations and analysis methods may be over reporting, low severity rutting.

Key to Notes in Tables

(1): Note that only one value fits in field, so even if this value varies throughout the route, only predominant value is recorded here.

(2): Shoulder width is measured at route start and every half-mile along the route in the primary direction. Width is the entire width of the drivable shoulder, regardless of the presence or absence of pavement, from the fog line to the shoulder hinge point, or if no fog line exists, from the edge of pavement to the hinge point. Identification of shoulder hinge point can be problematic using video analysis. Some paved ditches may be mistakenly recorded as shoulders where the shoulder hinge point and change in slope are not easily distinguished from the video.

(3): Mileage is measured by the ARAN (Automatic Road ANalyzer) data collection vehicle out to the 0.001 decimal place. The DMI (distance measuring instrument) is very accurate, with extremely slight variations in measurement due to air temperature, tire inflation, curves, hills, and equipment calibration.

(4): Features are measured differently depending on whether they are visible in the forward-facing video of the roadway, but every feature milepost measurement depends on the baseline measurement of the data collection vehicle’s mileage. The ARAN (Automatic Road ANalyzer) data collection vehicle’s mileage is measured by the DMI (distance measuring instrument) out to the 0.001 decimal place. The DMI is very accurate, with extremely slight variations in measurement due to air temperature, tire inflation, curves, hills, and equipment calibration. If a feature will not be visible in the forward-facing video, its milepost is determined by the data collectors’ key press tagging the milepost when the ARAN passes the feature. Key presses are entered into the ARAN software when the vehicle travels typically between 15 and 45 miles/hour, so a delay of a single second as the vehicle passes a feature would result in an inaccuracy of 0.004 miles (22 feet) to 0.012 miles (66 feet). If a feature is visible in the video, its milepost is determined during post-processing using a video measurement software called Surveyor.

(5): Condition assessments on concrete (PCC) pavements are not conducted for Alligator Cracking, Transverse or Longitudinal Cracking, Patching, or Rutting. Perfect values for concrete road sections for these indexes are default values and do not represent a condition assessment of the concrete surfaces.

(6): Roadway cracking presence, type, severity, and extent are determined by filming the roadway in the primary lane continuously with two overlapping analog cameras of 640 x 480 resolutions. The images from both cameras are stitched together in real time to create a continuous strip image of the roadway pavement in the primary lane. Cracks 3 mm or greater in width are visible in this video. A semi-automatic process running the WiseCrax software with additional input by human operators provides the cracking quantities recorded in these database fields. Quality checks have determined that a consistent 80% or better of the visible cracks are recorded.

Access Database Metadata

MASTER Table Metadata:

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
1	RIP_CYCLE	XX	4, for data collection cycle 4	Route ID Meeting	FHWA Determination	100% Referenced to other tables
2	STATE	XX	State where route is located	Route ID Meeting	Park Input / FHWA Determination	100%, Referenced to other tables (1)
3	PARK_ALPHA	XXXX	Park alpha code	Route ID Meeting	NPS References	100%, Referenced to other tables
4	PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	100%, Referenced to other tables
5	RTE_NO	9999XXX	Route number	Route ID Meeting	Park Input / FHWA Classification	100%, Referenced to other tables
6	RTE_NAME	(Text)	Route name	Route ID Meeting	Park Input	100%, Referenced to other tables. 100 characters fit in field
7	FUNCT_CLASS	X	Route functional classification	Route ID Meeting	Park Input / FHWA Classification	100%, Referenced to other tables
8	DIRECTION	XXX	Survey lane: PRI (primary) or OPP (opposite)	Route ID Meeting	Park Input / FHWA Determination	100%,
9	BEG_MP_EST	999.999 (miles)	Estimated starting MP	Route ID Meeting	Park Input / FHWA Determination	Estimated before data collected
10	END_MP_EST	999.999 (miles)	Estimated ending MP	Route ID Meeting	Park Input / FHWA Determination	Estimated before data collected
11	RTE_LENGTH	999.999 (miles)	Collected route length	ARAN Data Collection	Automatic Output	100%
12	FROM_DESC	(Text)	Beginning terminus of route	Route ID Meeting	Park Input / FHWA Determination	100% Referenced to other tables
13	TO_DESC	(Text)	Ending terminus of route	Route ID Meeting	Park Input / FHWA Determination	100% Referenced to other tables
14	NO_LANES	X	Number of lanes in route	ARAN Data Collection	Survey Crew Input	Untested. (1)
15	SURF_TYPE	XX	Surface type of route	ARAN Data Collection	Survey Crew Input	100%, Referenced to other tables (1)
16	COMP_DIR	XX	Compass direction of route's primary lane (nearest cardinal direction)	Route ID Meeting	Park Input / FHWA Determination	Untested
17	COMMENTS	(Text)	Special information, if any	Contractor Post-processing	Contractor Input	Untested
18	FILENAME	(Text)	Filename of raw data files	ARAN Data Collection	Automatic Output	100%
19	SECTION	(Text)	Route section ID	Route ID Meeting/ARAN Data Collection	Survey Crew Input/Automatic Output	100%

20	FKEY	9999999	Unique record ID	Contractor Post-processing	Database Processing	100%
21	DATE	MM/DD/YY	Data collection date	ARAN Data Collection	Automatic Output	100%
22	BEG_MP	999.999 (miles)	Beginning MP collected	ARAN Data Collection	Automatic Output	100% (3)
23	END_MP	999.999 (miles)	Ending MP collected	ARAN Data Collection	Automatic Output	100% (3)

PMS_FEATURE Table Metadata:

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
1	RIP_CYCLE	XX	4, for data collection cycle 4	Route ID Meeting	FHWA Determination	100% Referenced to other tables
2	STATE	XX	State where route is located	Route ID Meeting	Park Input / FHWA Determination	Untested (1)
3	PARK_ALPHA	XXXX	Park alpha code	Route ID Meeting	NPS References	100% Referenced to other tables
4	PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	100% Referenced to other tables
5	RTE_NO	9999XXX	Route number	Route ID Meeting	Park Input / FHWA Classification	100% Referenced to other tables
6	FMSS_EQUIP	XXXXXXXX	Facility Management Software System Equipment number	NPS FMSS application	NPS References	Untested
7	FUNCT_CLASS	X	Route functional class	Route ID Meeting	Park Input / FHWA Classification	100% Referenced to other tables
8	DIRECTION	XXX	Survey lane: PRI (primary) or OPP (opposite)	Route ID Meeting	Park Input / FHWA Determination	100%
9	MP	999.999 (miles)	Feature location along route	ARAN Data Collection/Contractor Post-processing	Video Analysis	<=0.001 mile
10	BEG_MP	999.999 (miles)	Feature Beginning location along route	Contractor Post-processing	Video Analysis	<=0.001 mile
11	END_MP	999.999 (miles)	Feature Ending location along route	Contractor Post-processing	Video Analysis	<=0.001 mile
12	FEATURE_LENGTH	999.99 (Feet)	Linear Feature Length	Contractor Post-processing	Database Processing	100%
13	EVENT	XXXX	Event category of feature	Contractor Post-processing	Video Analysis	Untested
14	EVENT_CODE	XXXX	Event sub-category of feature	Contractor Post-processing	Video Analysis	Untested
15	FEATURE_TYPE	(Text)	Feature designation: LINEAR or POINT	Contractor Post-processing	Video Analysis	Untested
16	EVENT_DESC	(Text)	Description of feature/contents of sign	Contractor Post-processing	Video Analysis	Untested
17	MUTCD	(Text)	MUTCD Code of Sign	Contractor Post-processing	Database Processing	95%
18	CONDITION	“N/A”	Sign condition. N/A. Not to be populated	Contractor Post-processing	Video Analysis	Values inaccurate, defaulted to “N/A”
19	COMMENT	(Text)	Sign label, intersecting route, etc.	Contractor Post-processing	Database Processing	Untested
20	OFFSET	“N/A”	Offset from Road Edge. N/A. Not to be populated	Contractor Post-processing	Database Processing	Values inaccurate, defaulted to “N/A”

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
21	SIDE	(Text)	Side of route relative to lane driven	Contractor Post-processing	Video Analysis	95%
22	STR_NUMBER	(Text)	FHWA bridge structure number	FHWA Post-processing	Database Processing	Untested
23	BARR_MAT	(Text)	Barrier Material Type	Contractor Post-processing	Video Analysis	Untested
24	BARR_TYPE	(Text)	Barrier Type	Contractor Post-processing	Video Analysis	Untested
25	BARR_POST_MAT	(Text)	Barrier Post Materials	Contractor Post-processing	Video Analysis	Untested
26	BARR_BEG_TERM	(Text)	Barrier Approach Treatment	Contractor Post-processing	Video Analysis	Untested
27	BARR_END_TERM	(Text)	Barrier End Treatment	Contractor Post-processing	Video Analysis	Untested
28	CURB_MAT	(Text)	Curb Material Type	Contractor Post-processing	Video Analysis	Untested
29	PAVED_DITCH_MAT	(Text)	Paved Ditch Material Type	Contractor Post-processing	Video Analysis	Untested (2)
30	GATE_MAT	(Text)	Gate Material Type	Contractor Post-processing	Video Analysis	Untested
31	GATE_STYLE	(Text)	Gate Style	Contractor Post-processing	Video Analysis	Untested
32	BEG_GPS_LAT	999.999999	GPS Latitude Co-ordinate (decimal degrees)	Contractor Post-processing	Video Analysis	<= 3.00 feet
33	BEG_GPS_LON	-999.999999	GPS Longitude Co-ordinate (-decimal degrees)	Contractor Post-processing	Video Analysis	<= 3.00 feet
34	BEG_GPS_ELEV	99999.9	GPS Elevation Feet	Contractor Post-processing	Video Analysis	Untested
35	BEG_GPS_MODE	(Text)	GPS Satellite Mode	Contractor Post-processing	Video Analysis	Untested
36	END_GPS_LAT	999.999999	GPS Latitude Co-ordinate (decimal degrees)	Contractor Post-processing	Video Analysis	<= 3.00 feet
37	END_GPS_LON	-999.999999	GPS Longitude Co-ordinate (-decimal degrees)	Contractor Post-processing	Video Analysis	<= 3.00 feet
38	END_GPS_ELEV	99999.9	GPS Elevation Feet	Contractor Post-processing	Video Analysis	Untested
39	END_GPS_MODE	(Text)	GPS Satellite Mode	Contractor Post-processing	Video Analysis	Untested
40	DATUM	(Text)	LL_WGS84_DD	Contractor Post-processing	Database Processing	100%
41	VIDEO	<Park>C04VID<#>	Removable USB video hard drive number	Contractor Post-processing	Database Processing	Untested
42	IMAGE	(Text)	Filename of .jpg image showing feature	Contractor Post-processing	Automatic Output	Untested
43	DATE	MM/DD/YY	Data collection date	ARAN Data Collection	Automatic Output	100%
44	FILENAME	(Text)	Filename of raw data files	ARAN Data Collection	Automatic Output	100%
45	SECTION	(Text)	Route section ID	Route ID Meeting/ARAN Data Collection	Survey Crew Input/Automatic Output	100%
46	FKEY	(Numeric)	Unique record ID	Contractor Post-processing	Database Processing	100%
47	VISI_FROM	999999 (millimiles)	Raw MP of first video frame showing feature	Contractor Post-processing	Database Processing	Untested
48	VISI_TO	999999 (millimiles)	Raw MP of last video frame showing feature	Contractor Post-processing	Database Processing	Untested

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
49	IDKEY	(Text)	Unique record ID used by VisiData	Contractor Post-processing	Database Processing	Untested
50	MP_REF	(Text)	Range of mileage to play in VisiData	Contractor Post-processing	Database Processing	Untested

List of Roadway Features						
#	EVENT	EVENT_CODE	FEATURE_TYPE	EVENT_DESC	STRUCTURE #	COLLECTED BY
1	BRIDGE	BRDG	LINEAR	BRIDGE	ALWAYS	ARAN
2	CATTLE GUARD	CGD	POINT	CATTLE GUARD	-	VIDEO RATING
3	CONSTRUCTION	CNST	LINEAR	CONSTRUCTION WORK ZONE	-	ARAN
4	CULVERT	CUL	POINT	CULVERT	SOMETIMES	ARAN
5	CURB	CRBL	LINEAR	CURB ON LEFT	-	VIDEO RATING
	""	CRBR	LINEAR	CURB ON RIGHT	-	VIDEO RATING
6	CURB-AND-GUTTER	CAGL	LINEAR	CURB-AND-GUTTER ON LEFT	-	VIDEO RATING
	""	CAGR	LINEAR	CURB-AND-GUTTER ON RIGHT	-	VIDEO RATING
7	DROP INLET	DINL	POINT	DROP INLET ON LEFT	-	ARAN
	""	DINR	POINT	DROP INLET ON RIGHT	-	ARAN
8	GATE	GATE	POINT	GATE	-	VIDEO RATING
9	FIRE HYDRANT	FHDL	POINT	FIRE HYDRANT ON LEFT	-	VIDEO RATING
	""	FHDR	POINT	FIRE HYDRANT ON RIGHT	-	VIDEO RATING
10	GUARD/GUIDE WALL	GGWL	LINEAR	GUARD/GUIDE WALL ON LEFT	-	VIDEO RATING
	""	GGWR	LINEAR	GUARD/GUIDE WALL ON RIGHT	-	VIDEO RATING
11	GUARD/GUIDE RAIL	GGRL	LINEAR	GUARD/GUIDE RAIL ON LEFT	-	VIDEO RATING
	""	GGRR	LINEAR	GUARD/GUIDE RAIL ON RIGHT	-	VIDEO RATING
12	INTERSECTION	INTL	POINT	INTERSECTION ON LEFT	-	ARAN
	""	INTR	POINT	INTERSECTION ON RIGHT	-	ARAN
	""	INTN	POINT	INTERSECTION SIDE N/A	-	ARAN

13	LANE DEVIATION	LADV	LINEAR	LANE DEVIATION	-	ARAN
14	LOW WATER CROSSING	LWCR	LINEAR	LOW WATER CROSSING	SOMETIMES	VIDEO RATING
15	MILE MARKER	MML	POINT	MILE MARKER ON LEFT	-	VIDEO RATING
	""	MMR	POINT	MILE MARKER ON RIGHT	-	VIDEO RATING
16	OVERPASS	OPV	POINT	OVERPASS VEHICULAR	SOMETIMES	ARAN
	""	OPP	POINT	OVERPASS PEDESTRIAN	SOMETIMES	ARAN
	""	OPRX	POINT	OVERPASS RAILROAD CROSSING	SOMETIMES	ARAN
17	PARK BOUNDARY	PRK	POINT	PARK BOUNDARY	-	ARAN
18	PAVED DITCH	PVDL	LINEAR	PAVED DITCH ON LEFT	-	VIDEO RATING
	""	PVDR	LINEAR	PAVED DITCH ON RIGHT	-	VIDEO RATING
19	PULLOUT	PLOL	LINEAR	PULLOUT ON LEFT	-	VIDEO RATING
	""	PLOR	LINEAR	PULLOUT ON RIGHT	-	VIDEO RATING
20	RAILROAD CROSSING	RRX	POINT	RAILROAD CROSSING	-	VIDEO RATING
21	RETAINING WALL	RTWL	LINEAR	RETAINING WALL ON LEFT	-	VIDEO RATING
	""	RTWR	LINEAR	RETAINING WALL ON RIGHT	-	VIDEO RATING
22	ROUTE BEGIN	RBEG	POINT	ROUTE BEGIN	-	ARAN
23	ROUTE END	REND	POINT	ROUTE END	-	ARAN
24	SIGN	REGU, WARN, GUID, UNKN	POINT	DOCUMENT CONTENTS OF SIGN. (WHAT THE SIGN SAYS) FOR GRAPHICS ONLY SIGNS POPULATED WITH ("GRAPHIC SIGN, NO TEXT") FOR UNREADABLE TEXT POPULATED WITH ("UNABLE TO READ FROM VIDEO")	-	VIDEO RATING
25	STATE BOUNDARY	STB	POINT	STATE BOUNDARY	-	ARAN
26	TRAFFIC LIGHT	TRF	POINT	TRAFFIC LIGHT	-	VIDEO RATING
27	TUNNEL	TUN	LINEAR	TUNNEL	ALWAYS	ARAN

PMS_20, PMS_MILE, & PMS_TENTH Tables Metadata:

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
1	RIP_CYCLE	XX	4, for RIP data collection Cycle 4	Route ID Meeting	FHWA Determination	100% Referenced to other tables
2	STATE	XX	State where route is located	Route ID Meeting	Park Input/FHWA Determination	Untested. (1)
3	PARK_ALPHA	XXXX	Park alpha code	Route ID Meeting	NPS References	100% Referenced to other tables
4	PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	100% Referenced to other tables
5	RTE_NO	9999XXX	Route number	Route ID Meeting	Park Input/FHWA Classification	100% Referenced to other tables
6	FUNCT_CLASS	X	Route functional class	Route ID Meeting	Park Input/FHWA Classification	100% Referenced to other tables
7	DIRECTION	XXX	Survey lane: PRI (primary) or OPP (opposite)	Route ID Meeting	Park Input/FHWA Determination	100%
8	BEG_MP	999.999 (miles)	MP at start of road interval described by database record	Contractor Post-processing	Database Processing	100% (3)
9	END_MP	999.999 (miles)	MP at end of road interval described by database record	Contractor Post-processing	Database Processing	100% (3)
10	INT_LENGTH	999.9 (ft)	Length of road interval as aggregated for data table	Contractor Post-processing	Database Processing	100%
11	RTE_LENGTH	999.999 (miles)	Collected route length	ARAN Data Collection	Automatic Output	100% (3)
12	NO_LANES	99	Number of lanes in route	ARAN Data Collection	Survey Crew Input	Untested. (1)
13	LANE_NO	99	Data collection lane	Contractor Post-processing	Database Processing	Untested
14	D_LANE_WIDTH	99.999 (ft)	WiseCrax (crack detection software) analysis width	Contractor Post-processing	Automatic Output	Untested
15	LANE_WIDTH	99.9 (ft)	Width of lane	Contractor Post-processing	Video Analysis	95%, <=1.0 foot
16	PAVE_WIDTH	99.9 (ft)	Full pavement width	Contractor Post-processing	Video Analysis	95%, <=1.0 foot
17	SHLD_WIDTH_L	99.9 (ft)	Left shoulder width	Contractor Post-processing	Video Analysis	95%, <=1.0 foot (2)
18	SHLD_WIDTH_R	99.9 (ft)	Right shoulder width	Contractor Post-processing	Video Analysis	95%, <=1.0 foot (2)
19	SHLD_COND_L	N/A	N/A. Intended to be Left shoulder condition	ARAN Data Collection	Survey Crew Input	Values inaccurate, defaulted to "N/A"
20	SHLD_COND_R	N/A	N/A. Intended to be Right shoulder condition	ARAN Data Collection	Survey Crew Input	Values inaccurate, defaulted to "N/A"
21	DRAIN_COND_L	N/A	N/A. Intended to be Left drainage condition	ARAN Data Collection	Survey Crew Input	Values inaccurate, defaulted to "N/A"
22	DRAIN_COND_R	N/A	N/A. Intended to be Right drainage condition	ARAN Data Collection	Survey Crew Input	Values inaccurate, defaulted to "N/A"

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
23	SURF_TYPE	XX	Surface type of route	ARAN Data Collection	Survey Crew Input	Untested. (1)
24	PCR	999	Pavement Condition Rating	Contractor Post-processing	Database Processing	100% for calculation (6)
25	RCI	999	Roughness Condition Index; -1 if invalid IRI	Contractor Post-processing	Database Processing	100% for calculation
26	SCR	999	Surface Condition Rating	Contractor Post-processing	Database Processing	100% for calculation (5) (6)
27	IRI_AVG	999.9 (inches/mile)	Average IRI	Contractor Post-processing	Database Processing	Untested
28	IRI_SD	999.9 (inches/mile)	IRI standard deviation	Contractor Post-processing	Database Processing	Untested
29	IRI_L	999.9 (inches/mile)	Left wheel path IRI	ARAN Data Collection	Automatic Output	Untested
30	IRI_R	999.9 (inches/mile)	Right wheel path IRI	ARAN Data Collection	Automatic Output	Untested
31	IRI_FLAG	0 or -1	-1 if invalid IRI data	Contractor Post-processing	Database Processing	Untested
32	RUT_INDEX	999	Rut index	Contractor Post-processing	Database Processing	100% for calculation (5)
33	RUT_AVG	99.99 (inches)	Average rut depth of both wheelpaths	Contractor Post-processing	Database Processing	Untested (5)
34	RUT_MAX	99.99 (inches)	Maximum rut depth of both wheelpaths	Contractor Post-processing	Database Processing	Untested (5)
35	RUT_SD	9.9	Rut depth standard deviation	Contractor Post-processing	Database Processing	Untested (5)
36	RUT_LOW	999 (%)	Percent of low severity ruts (on a 0-200% scale) in both wheelpaths	Contractor Post-processing	Database Processing	Untested (5)
37	RUT_MED	999 (%)	Percent of medium severity ruts (on a 0-200% scale) in both wheelpaths	Contractor Post-processing	Database Processing	Untested (5)
38	RUT_HI	999 (%)	Percent of high severity ruts (on a 0-200% scale) in both wheelpaths	Contractor Post-processing	Database Processing	Untested (5)
39	XFALL	999.9 (% slope)	Cross fall at start of road interval	ARAN Data Collection	Automatic Output	Untested
40	GRADE	999.9 (% slope)	Grade at start of road interval	ARAN Data Collection	Automatic Output	Untested
41	AC_INDEX	999	Alligator cracking index	Contractor Post-processing	Database Processing	100% for calculation (5) (6)
42	AC_LOW	999.9999 (%)	Percent of WiseCrax measured lane area with low-severity alligator cracking	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)
43	AC_MED	999.9999 (%)	Percent of WiseCrax measured lane area with medium-severity alligator cracking	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)
44	AC_HI	999.9999 (%)	Percent of WiseCrax measured lane area with high-severity alligator	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
			cracking			
45	LC_INDEX	999	Longitudinal cracking index	Contractor Post-processing	Database Processing	100% for calculation (5) (6)
46	LC_LOW	999.99 (%)	Low-severity longitudinal cracking in lane as a percentage of road interval length	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)
47	LC_MED	999.99 (%)	Medium-severity longitudinal cracking in lane as a percentage of road interval length	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)
48	LC_HI	999.99 (%)	High-severity longitudinal cracking in lane as a percentage of road interval length	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)
49	TC_INDEX	999	Transverse cracking index	Contractor Post-processing	Database Processing	100% for calculation (5) (6)
50	TC_LOW	999.99 (cracks)	Count of low-severity transverse cracks, where one crack unit equals the WiseCrax measured lane width	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)
51	TC_MED	999.99 (cracks)	Count of medium-severity transverse cracks, where one crack unit equals the WiseCrax measured lane width	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)
52	TC_HI	999.99 (cracks)	Count of high-severity transverse cracks, where one crack unit equals the WiseCrax measured lane width	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)
53	PATCH_INDEX	999	Patching index	Contractor Post-processing	Database Processing	100% for calculation (5) (6)
54	PATCHING	999.9999 (%)	Percent of WiseCrax measured lane area affected by patching	Contractor Post-processing	Pavement Video Analysis	As a Computed 95% Confidence Level (5) (6)
55	GPS_LAT	999.999999	Latitude coordinate	ARAN Data Collection	Automatic Output	<= 3.00 feet
56	GPS_LON	-999.999999	Longitude coordinate	ARAN Data Collection	Automatic Output	<= 3.00 feet
57	GPS_ELEV	99999.9	Elevation	ARAN Data Collection	Automatic Output	Untested
58	GPS_MODE	XXX	GPS Satellite Mode during collection	ARAN Data Collection	Automatic Output	Untested
59	DATUM	(Text)	LL_WGS84_DD	ARAN Data Collection	Database Processing	100%
60	VIDEO	<Park>C04VID<#>	Removable USB video hard	Contractor Post-processing	Database Processing	Untested

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
			drive number			
61	IMAGE	(Text)	Filename of .jpg image showing road interval	Contractor Post-processing	Automatic Output	Untested
62	SPEED	999 (miles/hour)	Average ARAN speed during data collection	ARAN Data Collection	Automatic Output	Untested
63	BRIDGE_FLAG	0 or 1	Flag indicating presence of bridge in interval	ARAN Data Collection	Survey Crew Input	Untested
64	CONSTR_FLAG	0 or 1	Flag indicating construction in interval	ARAN Data Collection	Survey Crew Input	Untested
65	LANEDEV_FLAG	0 or 1	Flag indicating lane deviation in interval	ARAN Data Collection	Survey Crew Input	Untested
66	DATE	MM/DD/YY	Data collection date	ARAN Data Collection	Automatic Output	100%
67	NODISTRESS	0 OR 1	Flag indicating absence of pavement distress	Contractor Post-processing	Database Processing	100%
68	FILENAME	(Text)	Filename of raw data files	ARAN Data Collection	Automatic Output	100%
69	SECTION	(Text)	Route section ID	Route ID Meeting/ARAN Data Collection	Survey Crew Input/Automatic Output	100%
70	FKEY	(Numeric)	Unique record ID	Contractor Post-processing	Database Processing	100%
71	CONTRACTOR1	(Numeric)	Raw MP of first video frame in section	Contractor Post-processing	Database Processing	Untested
72	CONTRACTOR2	(Numeric)	Raw MP of last video frame in section	Contractor Post-processing	Database Processing	Untested
73	CONTRACTOR3	(Text)	Unique record ID used by VisiData	Contractor Post-processing	Database Processing	Untested
74	CONTRACTOR4	(Text)	Range of mileage to play in VisiData	Contractor Post-processing	Database Processing	Untested

ROUTE_GPS table metadata:

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
1	RIP_CYCLE	XX	4, for RIP data collection Cycle 4	Route ID Meeting	FHWA Determination	100% referenced to other tables
2	STATE	XX	State where route is located	Route ID Meeting	Park Input/FHWA Determination	Untested
3	PARK_ALPHA	XXXX	Park alpha code	Route ID Meeting	NPS References	100% Referenced to other tables
4	PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	100% Referenced to other tables
5	RTE_NO	9999XXX	Route number	Route ID Meeting	Park Input/FHWA Classification	100% Referenced to other tables
6	FUNCT_CLASS	X	Route functional classification	Route ID Meeting	Park Input/FHWA Classification	100% Referenced to other tables
7	RTE_NAME	(Text)	Route name	Route ID Meeting	Park Input	100% Referenced to other tables . 100 characters fit in field
8	LANE_NUMBER	99	Data collection lane	Contractor Post-processing	Database Processing	Untested
9	DIRECTION	XXX	Survey lane: PRI (primary) or OPP (opposite)	Route ID Meeting	Park Input/FHWA Determination	Untested
10	MP	999.999	Mile Post (at 0.01 record)	ARAN Data Collection, Contractor Post-processing	Survey Crew Input/GPS Processing	Untested (3)
11	GPS_LAT	999.999999	GPS Latitude Co-ordinate (decimal degrees)	ARAN Data Collection, Contractor Post-processing	Automatic Output	<= 3.00 feet
12	GPS_LON	-999.999999	GPS Longitude Co-ordinate (-decimal degrees)	ARAN Data Collection, Contractor Post-processing	Automatic Output	<= 3.00 feet
13	GPS_ELEV	99999.9	Elevation	ARAN Data Collection, Contractor Post-processing	Automatic Output	Untested
14	GPS_MODE	XXX	GPS Satellite Mode during collection	ARAN Data Collection, Contractor Post-processing	Automatic Output	Untested
15	XFALL	999.9	Cross Fall: % Slope at GPS Location (Caution, Data not Validated)	ARAN Data Collection, Contractor Post-processing	Automatic Output	Untested
16	GRADE	999.9	Grade: % Slope at GPS Location (Caution, Data not Validated)	ARAN Data Collection, Contractor Post-processing	Automatic Output	Untested
17	HEADING	999.9	Heading Relative to True North	ARAN Data Collection	Automatic Output	Untested
18	DATUM	(Text)	LL_WGS84_DD	ARAN Data Collection	Database Processing	Untested
19	FILENAME	(Text)	Filename of raw data files	ARAN Data Collection	Automatic Output	Untested
20	FKEY	9999999	Unique record ID	Contractor Post-processing	Database Processing	Untested

21	DATE	MM/DD/YY	ARAN Data Collection Date	ARAN Data Collection	Automatic Output	Untested
22	COMMENT	(Text)	Source of Any Digitized Data	ARAN Data Collection	Database Processing	Untested
23	CONTRACTOR1	(Numeric)	Visi_from	Contractor Post-processing	Database Processing	Untested
24	CONTRACTOR2	(Numeric)	Visi_to	Contractor Post-processing	Database Processing	Untested
25	CONTRACTOR3	(Text)	Visi_dir (ipdated to chapter 1)	Contractor Post-processing	Database Processing	Untested
26	CONTRACTOR4	(Text)	Comments/exceptions	Contractor Post-processing	Database Processing	Untested

FHWA "Route ID Program" Database
Database Name: ROUTEINFO.mdb
Table Name: ROUTE_ID

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
1	ROUTE_IDENT	XXXX-9999XXX	The Park's Alpha Code + "-" + RTE_NO (below).	Route ID Meeting	Automatic Output	100%, Reference source for all tables
2	RIP_CYCLE	99	4, for RIP data collection Cycle 4	Route ID Meeting	FHWA Determination	100%, Reference source for all tables
3	PARK_ALPHA	XXXX	Park Alpha Code	Route ID Meeting	NPS References	100%, Reference source for all tables
4	GROUP_ALPHA	XXXX	Group Alpha Code	Route ID Meeting	NPS References	100%, Reference source for all tables
5	PARK_NO	9999	Park Numeric Code	Route ID Meeting	NPS References	100%, Reference source for all tables
6	PARK_NAME	(text)	NPS Name of Park	Route ID Meeting	NPS References	100%, Reference source for all tables
7	RTE_NO	9999XXX	Route Number	Route ID Meeting	Park Input	100%, Reference source for all tables
8	RTE_NAME	(Text)	Route Name	Route ID Meeting	Park Input	100%, Reference source for all tables
9	FROM_DESC	(Text)	Beginning terminus of route	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
10	TO_DESC	(Text)	Ending terminus of route	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
11	INSP_DATE	MM/DD/YYYY	Collection Date	ARAN Data Collection	FHWA Determination	100%, Reference source for all tables
12	FUNCT_CLASS	XX	Functional Class	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
13	STATE	XX	State where route is located	Route ID Meeting	Park Input/FHWA Determination	Untested (1)
14	STATE2	XX	Additional State Park Route traverses	Route ID Meeting	Park Input/FHWA Determination	Untested (1)
15	FMSS_NO	(Text)	NPS's Facility Management Software System (FMSS) Asset number	Route ID Meeting	Park Input	100%, Reference source for all tables
16	FMSS_SUR_EQP	(Text)	FMSS Surface Equipment Number	Route ID Meeting	Park Input	Untested
17	M_DISTRICT	(Text)	Park Maintenance District Route resides in	Route ID Meeting	Park Input	100%, Reference source for all tables (1)
18	TOPOGRAPHY	(Text)	Predominate Terrain condition for	Route ID Meeting	FHWA Determination	100%, Reference source for all

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
			Route. (FLAT, ROLLING, MOUNTAINOUS, or URBAN)			tables (1)
19	POSTED_SPEED	99	Posted Speed Limit for Route (Value is Predominate Speed Limit along Route)	Route ID Meeting	Park Input/FHWA Determination	Untested (1)
20	ARAN_ROUTE	XXX	Yes/No	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
21	PARKING_AREA	XXX	Yes/No	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
22	CONCESSION	XXX	Yes/No	Route ID Meeting	Park Input	100%, Reference source for all tables
23	PAVED_MI	999.999	Paved mileage (to the nearest 0.001)	ARAN Data Collection	Automatic Output	100%, Reference source for all tables
24	UNPAVED_MI	999.999	Unpaved mileage (to the nearest 0.001)	Route ID Meeting	Automatic Output	100%, Reference source for all tables
25	RTE_LENGTH	999.999	Official Route Length	Contractor Post-processing	Automatic Output	100%, Reference source for all tables
26	SURF_TYPE	XX	Surface type (PAVED: AS (asphalt, includes composite), CO (concrete), BR (brick/pavers), CB (cobblestone), OT (other))	Route ID Meeting	Survey Crew Input	100%, Reference source for all tables (1)
27	UNPAVED	XXXX	Unpaved Route (Yes/No/Both)	Route ID Meeting	Automatic Output	100%, Reference source for all tables
28	UNPAVED_CAT	XXX	Unpaved Road Category	Route ID Meeting	Automatic Output	Untested
29	CURB	(Text)	Parking Area with Curb around perimeter.	Route ID Meeting	Park Input/FHWA Determination	Untested
30	CURB_GUTTER	(Text)	Parking Area with Curb and Gutter around perimeter.	Route ID Meeting	Park Input/FHWA Determination	Untested
31	ADJ_ROUTE	9999XXX	Route number	Route ID Meeting	Automatic Output	100%, Reference source for all tables
32	USER_ACCESS	(Text)	Access Designation for Parking	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
33	PHOTO_NO	(Text)	Photo or Image	Route ID Meeting	Survey Crew Input	100%, Reference source for all tables
34	PLOT_SIZE	(Text)	Unpaved Parking Area Size	Route ID Meeting	Automatic Output	100%, Reference source for all tables
35	SQ_FEET	999.999	Route Square Footage	Contractor Post-processing	Automatic Output	100%, Reference source for all tables
36	M_RATING	(Text)	Manual Rating	Route ID Meeting	Automatic Output	100%, Reference source for all tables

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
37	SQ_YARDS	999.999	Route Square Yardage	Contractor Post-processing	Automatic Output	100%, Reference source for all tables
38	LANES	XX	Route travel lanes	Route ID Meeting	Automatic Output	Untested (1)
39	PAVE_WIDTH	999.99	Pavement Width (Weighted average)	RIP Post-processing	Automatic Output	100% Referenced to other tables
40	LANE_MILES	999.999	Route Equivalent Lane Miles	RIP Post-processing	Automatic Output	100%, Reference source for all tables
41	AREA_MAP	(Text)	1 or 2-digit number	Contractor Post-processing	FHWA/Contractor Input	100%, Reference source for all tables
42	REMARKS	(Memo)	General remarks on Park route and data collection operations.	Contractor Post-processing	FHWA/Contractor Input	Untested
43	SUMMARY_REC	XXXX-9999XXX	ROUTE_IDENT of summary Park Asset	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
44	NPS_REGION	(Text)	Park Region	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
45	DIVISION	(Text)	FHWA Division	Route ID Meeting	Park Input/FHWA Determination	100%, Reference source for all tables
46	PCR	999.99	Route Weighted Average PCR value	RIP Post-processing	Automatic Output	100% Referenced to other tables
47	SCR	999.99	Route Weighted Average SCR value	RIP Post-processing	Automatic Output	100% Referenced to other tables
48	AADT	999	Average Adjusted Daily Traffic	RIP	Automatic Output	Untested
49	SADT	999	Seasonal Adjusted Daily Traffic	RIP	Automatic Output	Untested
50	ADT_DATE	MM/DD/YYYY	Traffic Date of Collection	RIP	Automatic Output	Untested
51	BEG_LAT	999.999999	Route Begin GPS Latitude Coordinate (decimal degrees)	ARAN Data Collection	Automatic Output	<= 3.00 feet, Referenced from other tables
52	BEG_LON	-999.999999	Route Begin GPS Longitude Coordinate (-decimal degrees)	ARAN Data Collection	Automatic Output	<= 3.00 feet, Referenced from other tables
53	BEG_ELEV	99999.9	Route Begin Elevation	ARAN Data Collection	Automatic Output	100% Referenced to other tables
54	BEG_MODE	XXX	Route Begin GPS Satellite Mode during collection	ARAN Data Collection	Automatic Output	100% Referenced to other tables
55	END_LAT	999.999999	Route End GPS Latitude Coordinate (decimal degrees)	ARAN Data Collection	Automatic Output	<= 3.00 feet, Referenced from other tables

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
56	END_LON	-999.999999	Route End GPS Longitude Co-ordinate (-decimal degrees)	ARAN Data Collection	Automatic Output	<= 3.00 feet, Referenced from other tables
57	END_ELEV	99999.9	Route End Elevation	ARAN Data Collection	Automatic Output	100% Referenced to other tables
58	END_MODE	XXX	Route End GPS Satellite Mode during collection	ARAN Data Collection	Automatic Output	100% Referenced to other tables
59	DATUM	(Text)	LL_WGS84_DD	ARAN Data Collection	Automatic Output	100% Referenced to other tables
60	CHILD_ROUTE	XXX	Yes/No	Route ID Meeting	Automatic Output	100% Reference source for all tables
61	CULVERT_CNT	999	Route Culvert Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
62	DROP_INLET_CNT	999	Route Drop Inlet Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
63	GATE_CNT	999	Route Gate Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
64	TRAFLIGHT_CNT	999	Route Traffic Light Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
65	SIGN_CNT	999	Route Sign Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
66	LWCROSS_CNT	999	Route Low Water Crossing Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
67	BRIDGE_CNT	999	Route Bridge Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
68	TUNNEL_CNT	999	Route Tunnel Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
69	PULLOUT_CNT	999	Route Pullout Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
70	INTERSEC_CNT	999	Route Intersection Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
71	ST_BNDRY_CNT	999	Route State Boundary Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
72	PRK_BNDRY_CNT	999	Route Park Boundary Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
73	RETWALL_CNT	999	Route Retaining Wall Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
74	RR_CROSS_CNT	999	Route RR Crossing Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
75	CATTLE_CNT	999	Route Cattle Guard Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
76	OVHDSIGN_CNT	999	Route Overhead Sign Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
77	MILEMARK_CNT	999	Route Mile Marker Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
78	FHYD_CNT	999	Route Fire Hydrant Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
79	OVERPASS_CNT	999	Route Overpass Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
80	CABLE_TLNG	9999.999 (ft)	Route Total Length Cable Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
81	GDRAIL_TLNG	9999.999 (ft)	Route Total Length Guard/Guide Rail Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
82	GDWALL_TLNG	9999.999 (ft)	Route Total Length Guard/Guide Wall Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
83	TEMP_BARR_TLNG	9999.999 (ft)	Route Total Length Temporary Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
84	BOLLARD_TLNG	9999.999 (ft)	Route Total Length Bollard Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
85	BARRIER_TLNG	9999.999 (ft)	Route Total Length All Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
86	CURB_TLNG	9999.999 (ft)	Route Total Length Curbing (excludes Parking Areas)	RIP Post-processing	Automatic Output	100% Referenced to other tables
87	LWCROSS_TLNG	9999.999 (ft)	Route Total Length Low Water Crossings	RIP Post-processing	Automatic Output	100% Referenced to other tables
88	PAVDITCH_TLNG	9999.999 (ft)	Route Total Length Paved Ditch	RIP Post-processing	Automatic Output	100% Referenced to other tables (2)
89	TURNOUT_TLNG	9999.999 (ft)	Route Total Length Turnouts	RIP Post-processing	Automatic Output	100% Referenced to other tables
90	LANE_NUMBER	99	Number of Lane Tested	RIP Post-processing	Automatic Output	100% Referenced to other tables
91	LOCAL_FACTOR	9.9999	Park Location Factor	NPS Partner	Automatic Output	100% Reference source for all tables
92	E_ZONE	XXX	Route Environmental Zone	FHWA HPMA	Automatic Output	100% Reference source for all tables
93	PAVEMENT_DM	\$99,999,999.99	Pavement Deferred Maintenance	FHWA HPMA	Automatic Output	100% Reference source for all tables
94	CRV	\$99,999,999.99	Current Replacement Value	RIP Post-processing	Automatic Output	100% Reference source for all tables

Database Name: ROUTEINFO.mdb

Table Name: PARK_TOTALS

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
1	RIP_CYCLE	99	4, for RIP data collection Cycle 4	Route ID Meeting	FHWA Determination	100% Referenced to other tables
2	PARK_ALPHA	XXXX	Park Alpha Code	Route ID Meeting	FHWA Determination	100% Referenced to other tables
3	GROUP_ALPHA	XXXX	Group Alpha Code	Route ID Meeting	NPS References	100% Referenced to other tables
4	PARK_NO	9999	Park Numeric Code	Route ID Meeting	NPS References	100% Referenced to other tables
5	PARK_NAME	XXXX	NPS Name of Park	Route ID Meeting	NPS References	100% Referenced to other tables
6	INSP_DATE	MM/DD/YYYY	Date that data was collected in the park (completion date).	Route ID Meeting and ARAN Data Collection	FHWA Determination	100% Referenced to other tables
7	NPS_REGION	XXXX	Park Region	Route ID Meeting	Park Input	100% Referenced to other tables
8	DIVISION	XXXX	FHWA Division	Route ID Meeting	FHWA Determination	100% Referenced to other tables
9	T_PAVED_MI	999.999	Total Park Paved Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
10	T_UNPAVED_MI	999.999	Total Park Unpaved Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
11	T_ROUTE_MILES	999.999	Total Park Route Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
12	T_ARAN_DRIVEN	999.999	Total Park ARAN Driven Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
13	T_ARAN_LMILES	999.999	Total Park ARAN Lane Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
14	T_CONCESS_PAVED	999.999	Total Park Concession Paved Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
15	T_CONCESS_UNPAVED	999.999	Total Park Concession Unpaved Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
16	T_PRK_PAVEDSQFT	999.999	Total Park Parking Paved Square Feet	RIP Post-processing	Automatic Output	100% Referenced to other tables
17	T_PRK_UNPAVEDSQFT	999.999	Total Park Parking Unpaved Square Feet	RIP Post-processing	Automatic Output	100% Referenced to other tables
18	T_CPRK_PAVEDSQFT	999.999	Total Park Concession Parking Paved Square Feet	RIP Post-processing	Automatic Output	100% Referenced to other tables

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
19	T_CPRK_UNPAVEDSQFT	999.999	Total Park Concession Parking Unpaved Square Feet	RIP Post-processing	Automatic Output	100% Referenced to other tables
20	T_PARKING_SQFT	999.999	Total Park Parking Square Feet	RIP Post-processing	Automatic Output	100% Referenced to other tables
21	T_PARKING_LMILES	999.999	Total Park Parking Equivalent Lane Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
22	T_MRR_SQFT	999.999	Total Park Manually Rated Road Square Feet	RIP Post-processing	Automatic Output	100% Referenced to other tables
23	T_CMRR_SQFT	999.999	Total Park Concession Manually Rated Road Square Feet	RIP Post-processing	Automatic Output	100% Referenced to other tables
24	T_MRR_LMILES	999.999	Total Park Manually Rated Road Equivalent Lane Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
25	T_LMILES	999.999	Total Park Lane Miles	RIP Post-processing	Automatic Output	100% Referenced to other tables
26	T_CULVERT_CNT	999	Total Park Culvert Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
27	T_DROP_INLET_CNT	999	Total Park Drop Inlet Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
28	T_GATE_CNT	999	Total Park Gate Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
29	T_TRAFLIGHT_CNT	999	Total Park Traffic light Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
30	T_SIGN_CNT	999	Total Park Sign Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
31	T_LWCROSS_CNT	999	Total Park Low Water Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
32	T_BRIDGE_CNT	999	Total Park Bridge Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
33	T_TUNNEL_CNT	999	Total Park Tunnel Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
34	T_PULLOUT_CNT	999	Total Park Pullout Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
35	T_INTERSEC_CNT	999	Total Park Intersections Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
36	T_ST_BNDRY_CNT	999	Total Park State Boundaries Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
37	T_PRK_BNDRY_CNT	999	Total Park Boundaries Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
38	T_RETWALL_CNT	999	Total Park Retaining Wall Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
39	T_RR_CROSS_CNT	999	Total Park RR Crossing Count	RIP Post-processing	Automatic Output	100% Referenced to other

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
						tables
40	T_CATTLE_CNT	999	Total Park Cattle Guard Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
41	T_OVHDSIGN_CNT	999	Total Park Overhead Sign Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
42	T_MILEMARK_CNT	999	Total Park Mile Marker Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
43	T_FHYD_CNT	999	Total Park Fire Hydrant Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
44	T_OVERPASS_CNT	999	Total Park Overpass Count	RIP Post-processing	Automatic Output	100% Referenced to other tables
45	T_CABLE_TLNG	9999.999 (ft)	Total Length Park Cable Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
46	T_GDRAIL_TLNG	9999.999 (ft)	Total Length Park Guard/Guide Rail Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
47	T_GDWALL_TLNG	9999.999 (ft)	Total Length Park Guard/Guide Wall Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
48	T_TEMP_BARR_TLNG	9999.999 (ft)	Total Length Park Temporary Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
49	T_BOLLARD_TLNG	9999.999 (ft)	Total Length Park Bollard Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
50	T_BARRIER_TLNG	9999.999 (ft)	Total Length All Park Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
51	T_CURB_TLNG	9999.999 (ft)	Total Length Park Curbing	RIP Post-processing	Automatic Output	100% Referenced to other tables
52	T_LWCROSS_TLNG	9999.999 (ft)	Total Length Park Low Water Crossings	RIP Post-processing	Automatic Output	100% Referenced to other tables
53	T_PAVDITCH_TLNG	9999.999 (ft)	Total Length Park Paved Ditches	RIP Post-processing	Automatic Output	100% Referenced to other tables (2)
54	T_TURNOUT_TLNG	9999.999 (ft)	Total Length Park Turnouts	RIP Post-processing	Automatic Output	100% Referenced to other tables
55	PARK_PCR	99.99	Overall Park PCR Rating	RIP Post-processing	Automatic Output	100% Referenced to other tables
56	PARK_RCI	99.99	Overall Park RCI Rating	RIP Post-processing	Automatic Output	100% Referenced to other tables
57	PARK_SCR	99.99	Overall Park SCR Rating	RIP Post-processing	Automatic Output	100% Referenced to other tables
58	PARK_RUT_INDEX	99.99	Overall Park Rutting Index Rating	RIP Post-processing	Automatic Output	100% Referenced to other tables
59	PARK_AC_INDEX	99.99	Overall Park Alligator Cracking Index Rating	RIP Post-processing	Automatic Output	100% Referenced to other tables

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
60	PARK_LC_INDEX	99.99	Overall Park Longitudinal Cracking Index Rating	RIP Post-processing	Automatic Output	100% Referenced to other tables
61	PARK_TC_INDEX	99.99	Overall Park Transverse Cracking Index Rating	RIP Post-processing	Automatic Output	100% Referenced to other tables
62	PARK_PATCH_INDEX	99.99	Overall Park Patching Index Rating	RIP Post-processing	Automatic Output	100% Referenced to other tables
63	PARK_CONC_PCR	99.99	Overall Park Concession PCR Rating	RIP Post-processing	Automatic Output	100% Referenced to other tables

Business Practices for Route Numbering and Roadway Asset Identification

Introduction and Background:

Beginning in November 2006, inventory and condition information gathered by the Federal Highway Administration (FHWA) has been stored in FMSS to enable NPS to report Deferred Maintenance (DM) and Current Replacement Value (CRV) for NPS paved roads, paved parking areas, bridges, and tunnels. The NPS Roads Working Group (RWG) has been tasked with developing and implementing the procedures necessary to transfer DM and CRV from FHWA's databases to NPS' Facility Management Software System (FMSS).

Current business practices for roadway definition in national parks involve face-to-face meetings between FHWA personnel and individual park staff known as "Route ID" meetings. These meetings have been ongoing for several years and have been performed within the context of the Road Inventory Program (RIP) executed mainly by FHWA. The primary focus of these meetings has been on defining roadway static information such as route names, numbers, functional class, etc. The FHWA personnel are the primary individuals responsible for implementing the RIP and the route ID meetings are an integral and fundamental part of that process. The RIP process provides route numbers for each individual road and parking area in each park. After the route ID meetings establish a given park's roadway asset base, various types of condition and inventory data are collected either manually or with a data collection van that drives each individual road with an individual route number.

The FMSS requires asset numbers as unique identifiers for all asset types including roadways. **The current practice is that all roadways that are assigned a route number at route ID, also are defined as assets and therefore also receive an FMSS asset number** (Route names and functional classes are also collaboratively assigned during the face-to-face route ID meetings). This practice began midway through the third RIP data collection cycle (ending in 2003) and was further reinforced during an asset alignment process conducted in the summer of 2006. The alignment process ensured that each route number in RIP and each asset number in FMSS were matched to the correct road and parking area.

Issue Statement:

As a result of various pre-existing business practices associated with the RIP, which predates FMSS by several years, route numbers are assigned for routes that are often very small. In tandem with the current business practice that all routes with route numbers are considered assets, this has caused a proliferation of asset numbers within FMSS. Over the past year, the RWG has learned that this business practice has significantly increased time and resources that parks must dedicate to administering FMSS data entry and management. This additional work effort is due to the fact that tying FMSS asset records to the more detailed, granular RIP route numbers has generated numerous new assets that require additional database and work order management. This has led to a situation where assets are not being defined the way they are managed.

The following proposed practices seek to create an asset definition process that is dictated by to how road assets are managed at the park level, not according to the pre-existing practices used in RIP for collecting detailed road information. RIP practices assign route numbers mainly based on how data are collected and driven with a data collection device. These procedures will disassociate the driving of roads with the data collection van from the process of assigning them asset status. **The end goal is to only assign asset numbers based on how parks manage their facilities within guidelines set up within FMSS and herein.** Driving the road with the data collection van allows for the collection of higher quality data as well as the ability to view road segments with video viewing software (Visidata). By de-linking driving the roads with the assignment of “asset status”, we are able to get the best quality data without the proliferation of assets that has serious negative ramifications for managing roadways in parks using asset management tools.

Proposed Actions:

1. Make a distinction within the route number field in the RIP database between those route numbers that represent assets, those that are subcomponents of assets and those that are groups of sub-components. The route number field in the RIP database will be expanded from 6 to 7 characters. The additional character will denote the asset status of the route in question. Combined routes will be designated with a double “zz”, while subcomponents will be designated with one “z”. Whenever possible, a combined route should use the lowest route number to be combined as the combined route number.
2. Only show assets, whether a group of subcomponents or a single component, on the Route ID report. Assets that are composed of subcomponents will have “zz” in the route number. Individual routes will have no additional characters in the route number. Subcomponents (designated in RIP with a “z”) will not be listed on the route ID report. Only assign asset numbers to those routes listed on the route ID report.
3. Provide a separate reporting function (other than the Route ID report) to identify and display information for route numbers not representing assets. Specific reporting requirements and format TBD.
4. Add a new field to the RIP database to indicate the “asset status” of a route number. The flag will have three possible values:
 - a. Asset with no subcomponents.
 - b. Asset with subcomponents.
 - c. Non-asset (i.e. subcomponent).

Both a change in the route number and a new “asset ID” field in the RIP database are recommended. It is easier to perform queries and other database manipulations using a separate field instead of a character within the route number field. The character in the route number field allows for rapid identification of the asset status of a road without having to access the database as a whole. Even though non-asset routes will not be included in the route ID report (the primary location for parks to view road information in RIP), there are many other reports as well as the Visidata application where the route number is

displayed. In these cases, the character in the route number will clearly identify the asset status of the roadway.

5. Focus asset definition practices on NPS asset management needs. Create roadway assets based on how parks manage these assets within the following guidelines:
 - a. Individual road segments (asset subcomponents) may be combined into a single asset. **Note that all the attributes of individual subcomponents (paved area, equipment, work orders, etc) will be included in the combined asset.**
 - b. In general, combination should be used in complex circulatory environments such as campground areas, housing and other administrative areas, maintenance areas, etc.
 - c. Public and non-public segments may not be combined.
 - d. Segments with differing functional classes may not be combined.
 - e. Discrete parking areas may be combined into a single asset where they service the same facility or resource and are within walking distance of each other.
 - f. Parking areas and roads may not be combined. This includes short road segments that may be near or adjacent to parking areas. See 5h below for exceptions to this.
 - g. Where the primary purpose of a road is to provide access to a parking area, and that road segment is approximately 0.25 miles in length or shorter, the access road should be considered part of the parking area (Note that this is an existing RIP business practice).
 - h. Particularly long routes may be divided into multiple assets based on how a park manages the roadway network. This should not be confused with the use of sub-components listed in 5a.
 - i. Roads that are actively managed by concession operations may not be combined with those managed by the NPS.

Discussion:

The first four items listed above are actions required by FHWA RIP to allow for the adoption of the practices shown in 5a-i. The following will provide additional direction and examples for guidelines listed.

Individual road segments (asset subcomponents) may be combined into a single asset. Where previous route ID practices have generated more assets (routes) than are practical from an asset management standpoint, small, discrete road lengths may be designated as asset subcomponents and then combined into a larger single asset. A subcomponent is NOT an FMSS term. Subcomponents will be used in RIP to indicate which routes are small, drivable individual road segments and which routes may include these segments. Once a piece of road is designated a subcomponent of another route, it will no longer have any individual identity in FMSS. Only those routes listed on the RIP Route ID report will have asset numbers in FMSS. As stated in business rule 2 above, subcomponents will not be listed on the route ID. The quantity information (length, area) will be included into the larger route of which they are a part. See Figures 1 and 2 for an example of how existing assets may be combined using subcomponents. Note that

subcomponents will have an identity in the RIP database and, if driven by RIP team, may be referenced in RIP reports, Visidata, or other RIP documentation.

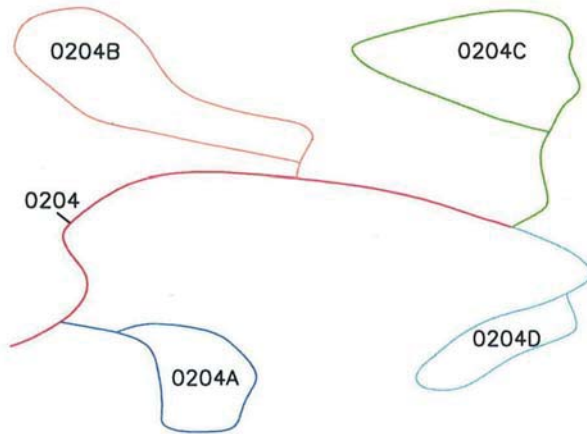


Figure 1: Campground with five routes and five assets

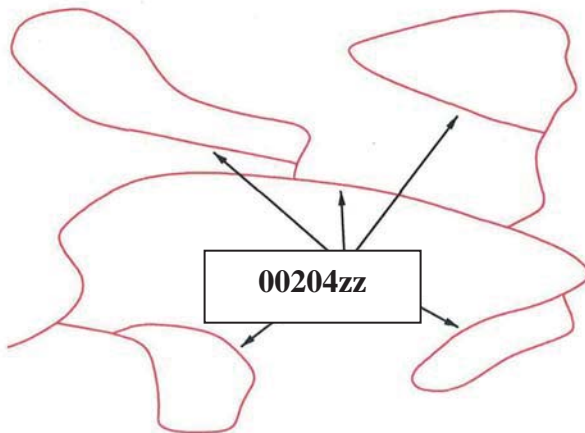


Figure 2: Campground with all loops combined into one route and one asset. This has eliminated four assets.

In general, combination should occur in complex circulatory environments such as campground areas, housing and other administrative areas, maintenance areas, etc.

Typically these complex situations are where too many assets have been used to define roadways. Combining simple “point A to point B” roads that are clearly defined and provide access to different facilities or locations may not be done.

Public and non-public segments may not be combined. Roads that are posted as closed to the public or are intended as administrative access only (maintenance areas, housing areas, fire roads, etc) can not be combined with roads open to the public.

Segments with differing functional classes may not be combined. The roadway functional class is found on the Route ID report. Functional class indicates the type of circulatory function a given road provides. Functional class is used in a variety of applications (engineering, safety, funding) so it is important to maintain the correct functional class attributes of individual roads/assets. There are some cases where functional class was erroneously assigned in prior Route ID meetings such as where campground loops have a different functional class than the campground road. Functional classes of individual roads may be modified to correct discrepancies. The functional class definitions may not be modified.

Discrete parking areas may be combined into a single asset where they service the same facility or resource and are within walking distance of each other. These combined areas should be maintained as one asset. There are many instances where small (5-10 space), discrete parking areas have been separated into individual assets even though they provide parking for the same area or facility. These may be combined into a single asset. Figures 3 and 4 shows examples of combining parking areas.

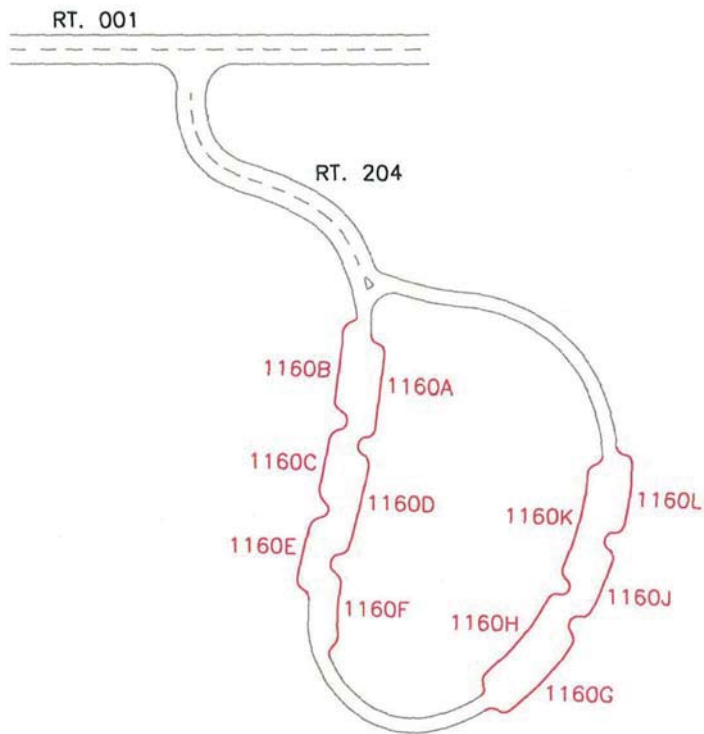


Figure 3: Parking with access route 204 and multiple parking areas (1160 A-L). Currently, this parking area is 12 routes and 12 assets (one 1100 asset and 11 1300 assets).

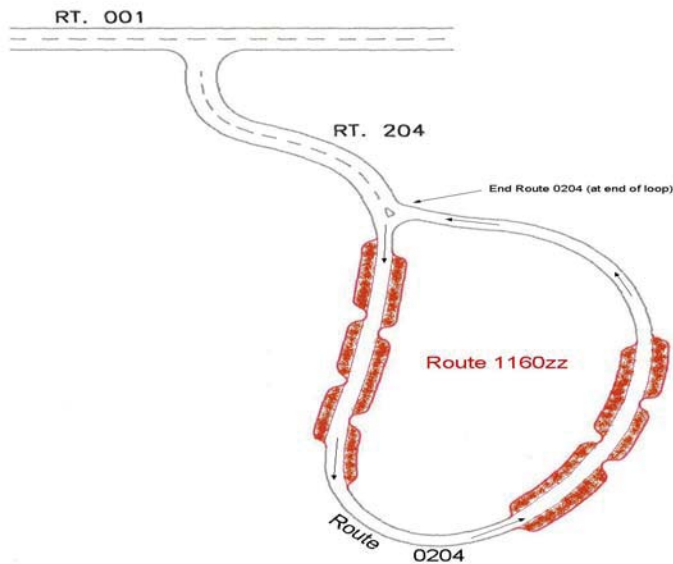


Figure 4: Parking with access route 204 and one parking area 1160zz. Route 204 is assumed longer than 0.25 miles. There are now 2 assets (one 1100 asset, one 1300 asset) instead of 12.

Parking areas and roads may not be combined. Parking areas and roads are tracked as separate asset types (1300 vs. 1100) in FMSS and as such should not be combined except in situations described by 5g. In Figure 5, Route 207 is a spur road from the main route running through parking area 1102. Since the spur road continues through and beyond the parking area, it will remain a separate route.

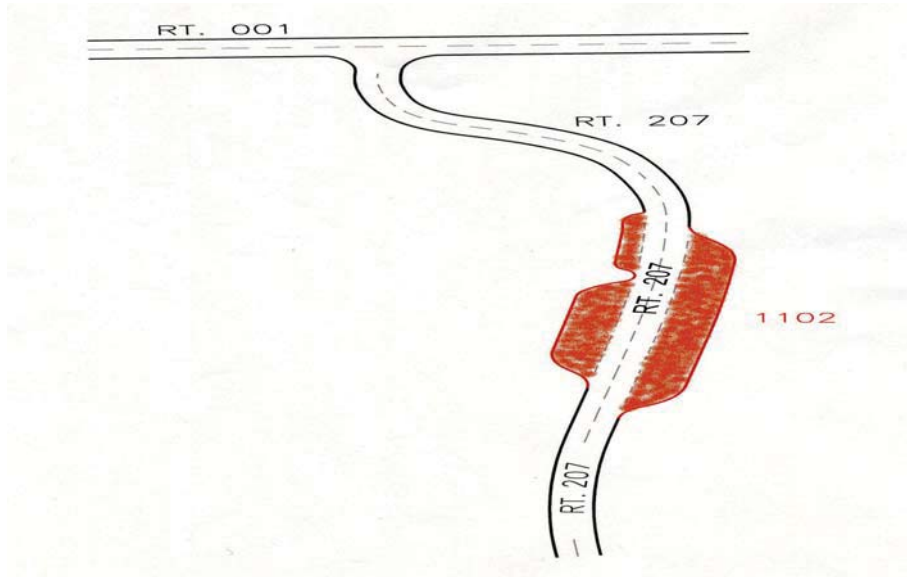


Figure 5: Parking with access route 207 running through and continuing beyond parking 1102. This access route cannot be considered a part of the parking area and two routes and two assets continue to exist.

Where the primary purpose of a road is to provide access to a parking area, and that road segment is less than 0.25 miles in length, the access road should be considered part of the parking area. See Figures 8. Where a road continues on past a parking area to another facility or destination, even if it is less than 0.25 miles to the initial parking area, the road and parking area may not be combined.

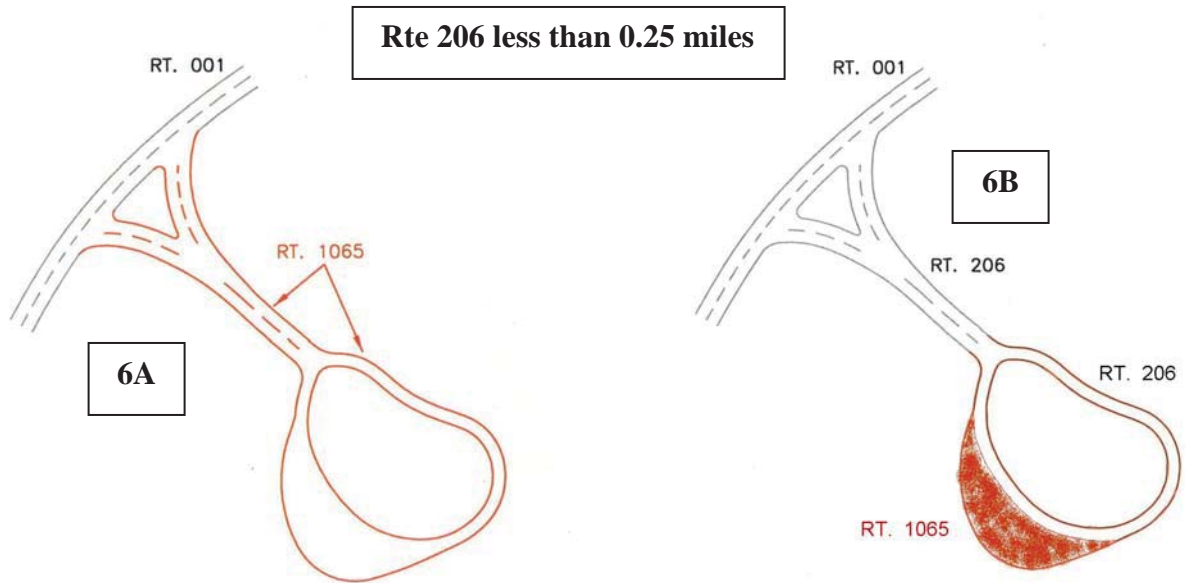


Figure 6: Since the access route is less than .25 miles in length and the only use of the access is to the parking, one route for both the access and the parking area can be established.

Particularly long routes may be divided into multiple assets based on how a park manages the roadway network. This should not be confused with the use of sub-components listed in 5a. Routes like the Blue Ridge Parkway or the Yellowstone Grand Loop may not lend themselves to management as a single asset by virtue of their length. Often management districts are created for sections of these routes and maintenance activities occur primarily within these districts. Parks may break routes up into separate assets during the Route ID process if the road is managed as discrete sections. This should only be done for very long roads.

The following example illustrates a complex road system and how the proposed business practice and several of the guidelines could be applied to create fewer assets that are consistent with local management.

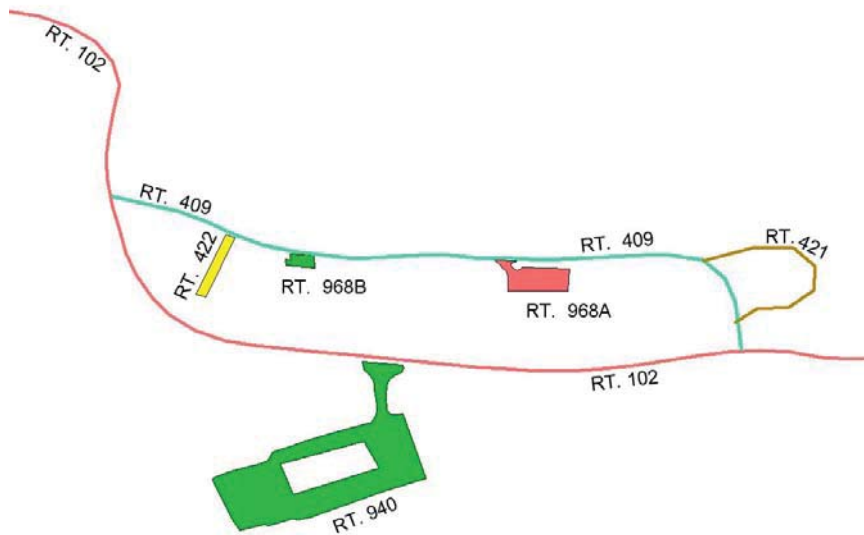


Figure 7 – Current Housing area access configuration. Route 409 is less than 0.25 miles long.

The area serviced by Routes 409, 421, 422, 968A, and 968B is all employee housing. Route 940 provides access to visitor services and not to the housing area. Routes may be combined to create assets that reflect local management. Routes 409, 421, and 422 are all the same functional class, provide access to one type of activity (housing) and are all posted as non-public. These routes may be combined. They should not be combined with any parking areas even though they are all less than 0.25 miles long. This is because their main function is not to provide access to parking. Routes 968A and B provide parking for access to the same facility (housing). Even though these discrete areas may provide parking to different housing units, it's reasonable to manage them as a single asset. They may also be combined.

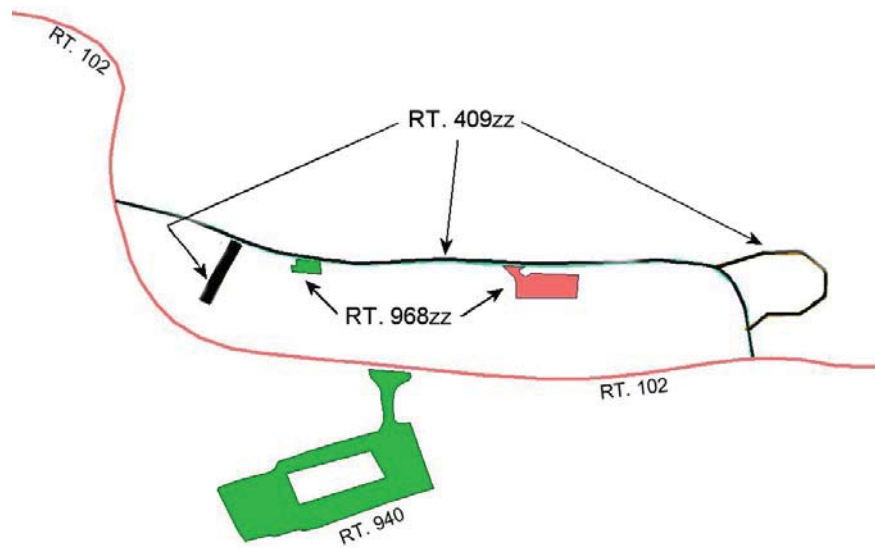


Figure 8 – Combined housing area access configuration – Parking and road assets combined to eliminate 3 assets.