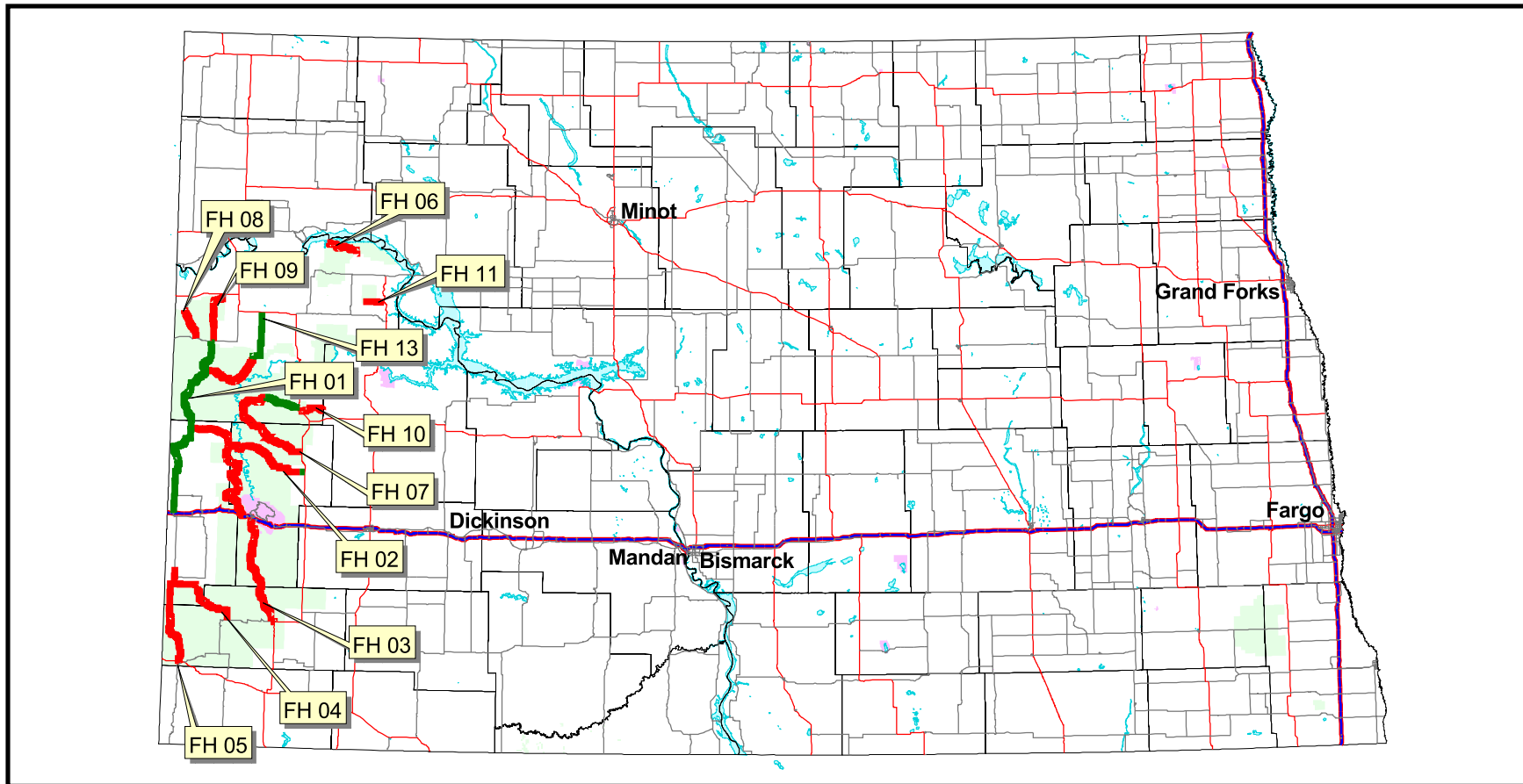




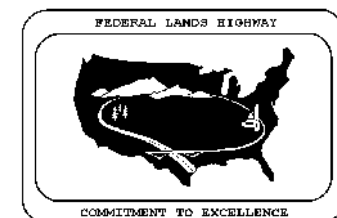
# NORTH DAKOTA

## Forest Highway Network and Planning Data 2006



NE Forest Highways  
Paved Roads  
Unpaved Roads

Prepared by:  
Federal Highway Administration  
Central Federal Lands Division  
September - 2006



## **SUMMARY:**

The following is a report on the status of the Forest Highway Network in the State of North Dakota. The data was taken from North Dakota Department of Transportation (NDDOT) road evaluation and an automatic data collection contract in the summer of 2004. The purpose of the report is to document the condition of the Forest Highway Network and provide data for pavement and bridge management systems. The report identifies potential sections for 3R projects. Nonetheless, the sections should be reviewed in the field by those involved in programming and project development before any specific projects are selected. The sections are based on political boundaries (county lines) and HPMS traffic data rather than condition changes. Therefore, each section should be scrutinized before project limits are determined. Lengths of segments have been scrutinized for errors and changed where needed. All the bridges are in the National Bridge Inventory System and therefore have the data for structural deficiency and functional obsolescence and have been assigned a sufficiency rating by the Headquarters of the FHWA.

The North Dakota Forest Highway Network contains 13 routes amounting to 370.91 miles (596.79 km).

## **CONTENTS AND DESCRIPTION OF THIS REPORT:**

**Graphs:** Show the average conditions of all state-owned highways over time, starting in 1998. There are three sections: miles-by-condition rating, average condition by route, and average condition by county.

**Description Sheets:** Show a basic map of the route with segments plus a description of the route's termini, functional class, and other useful information. (Recommendations have been removed from the descriptions)

**Pavement Condition Sheets:** Show the condition data, averaged by segment, of the route along with traffic data. The map shows the condition of the route by color code, plus termini descriptions and other features along the route. The map shows the actual un-averaged condition of the route, which may not correspond to the averaged data. This change was made to allow for faster evaluation of potential projects.

**Bridge Condition Sheets:** Show the bridge locations and length, width, and condition information from the National Bridge Inventory.

**POTENTIAL 3R PROJECTS:**

All the North Dakota FH routes were inspected by the NDDOT Planning and Pavement Management personnel. North Dakota uses the International Road Index (IRI) to evaluate their pavements. IRI is measured directly in inches of vertical roughness per mile of pavement. Vertical mounted accelerometers over each wheel path are used to measure the roughness over the full length of each section. The values reported are the “half car simulation” IRI. This factors both the left and right wheel path providing the ride quality felt by the vehicle occupants, not the roughness of the individual wheel paths.

Pavement Condition Ratings (PCR) are determined using distress ratings based primarily on the IRI. With the current formulas, a road is considered failed when its PCR falls to 60 or below. Fair roads have a PCR between 61 and 70, good roads have a PCR between 71 and 80, and excellent roads have a PCR of 81 and above.

| FH Route | Segment | Local Route # | Route Name     | County   | Start MP | End MP | Length (mi) | Length (km) | ADT | Width (ft) | IRI | PCR | Distress |
|----------|---------|---------------|----------------|----------|----------|--------|-------------|-------------|-----|------------|-----|-----|----------|
| 2        | 6       | 20th St       | Blacktail Road | Billings | 42.30    | 43.85  | 1.55        | 2.49        | 150 | 24         | 269 | 33  | Poor     |
| 1        | 4       | SR 16         | Trotters Road  | Golden   | 108.48   | 118.48 | 10.00       | 16.09       | 190 | 24         | 166 | 51  | Poor     |
| 1        | 3       | SR 16         | Trotters Road  | Golden   | 93.81    | 108.48 | 14.67       | 23.60       | 200 | 24         | 161 | 52  | Poor     |
| 13       | 3       | CR 27         | Red Wing Road  | McKenzie | 19.29    | 20.29  | 1.00        | 1.61        | 150 | 20         | 173 | 49  | Poor     |
| 13       | 4       | CR 27         | Red Wing Road  | McKenzie | 20.29    | 35.23  | 14.94       | 24.04       | 140 | 20         | 149 | 54  | Poor     |
| 1        | 5       | SR 16         | Trotters Road  | McKenzie | 118.48   | 137.66 | 19.18       | 30.86       | 250 | 24         | 140 | 57  | Poor     |

The following is the relative pavement rating based on the IRI value:

| IRI Values | PCR       | Pavement Rating |
|------------|-----------|-----------------|
| Below 53   | 81 to 100 | Excellent       |
| 53 to 86   | 71 to 80  | Good            |
| 87 to 122  | 61 to 70  | Fair            |
| Above 122  | Below 61  | Poor            |

**POTENTIAL BRIDGE REPLACEMENT PROJECTS:**

There are 26 bridges on the Forest Highway Network in North Dakota. All the bridge data was taken from the National Bridge Inventory System (NBIS). Bridges having a sufficiency rating less than 50, or 80 and less and structurally deficient or functionally obsolete qualify for the National Bridge Replacement Program and should be considered for replacement. Note that some bridges are in the recent or current construction program.

| FH | State or Local Route | NBIS Number     | MP   | Facility          | Owner        | Width (ft) | Width (m) | Length (ft) | Length (m) | SD | FO | SR   |
|----|----------------------|-----------------|------|-------------------|--------------|------------|-----------|-------------|------------|----|----|------|
| 9  | CR 13                | 000000027112230 | 10.4 | Charbonneau Creek | McKenzie Co. | 23.62      | 7.20      | 26.90       | 8.20       | X  |    | 45.2 |

**Definition of terms:**

**Structurally deficient (SD):** A bridge that (1) has been restricted to light vehicles only, (2) is closed, or (3) requires immediate rehabilitation to remain open.

**Functionally obsolete (FO):** A bridge for which the deck geometry, load carrying capacity (comparison of the original design load to the State legal load), clearance, or approach roadway alignment no longer meets the usual criteria for the system of which it is an integral part.

**Sufficiency rating (SR):** The numerical rating of a bridge based on its structural adequacy and safety, essentiality for public use, and its serviceability and functional obsolescence.

**CHANGES SINCE LAST REPORT:**

No significant changes since last report.

**LIST OF THE CURRENT APPROVED FOREST HIGHWAY NETWORK IN THE STATE  
OF NORTH DAKOTA**

**(as of September 2006)**

**U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION  
NORTH DAKOTA FOREST HIGHWAY DESCRIPTIONS  
September 2006**

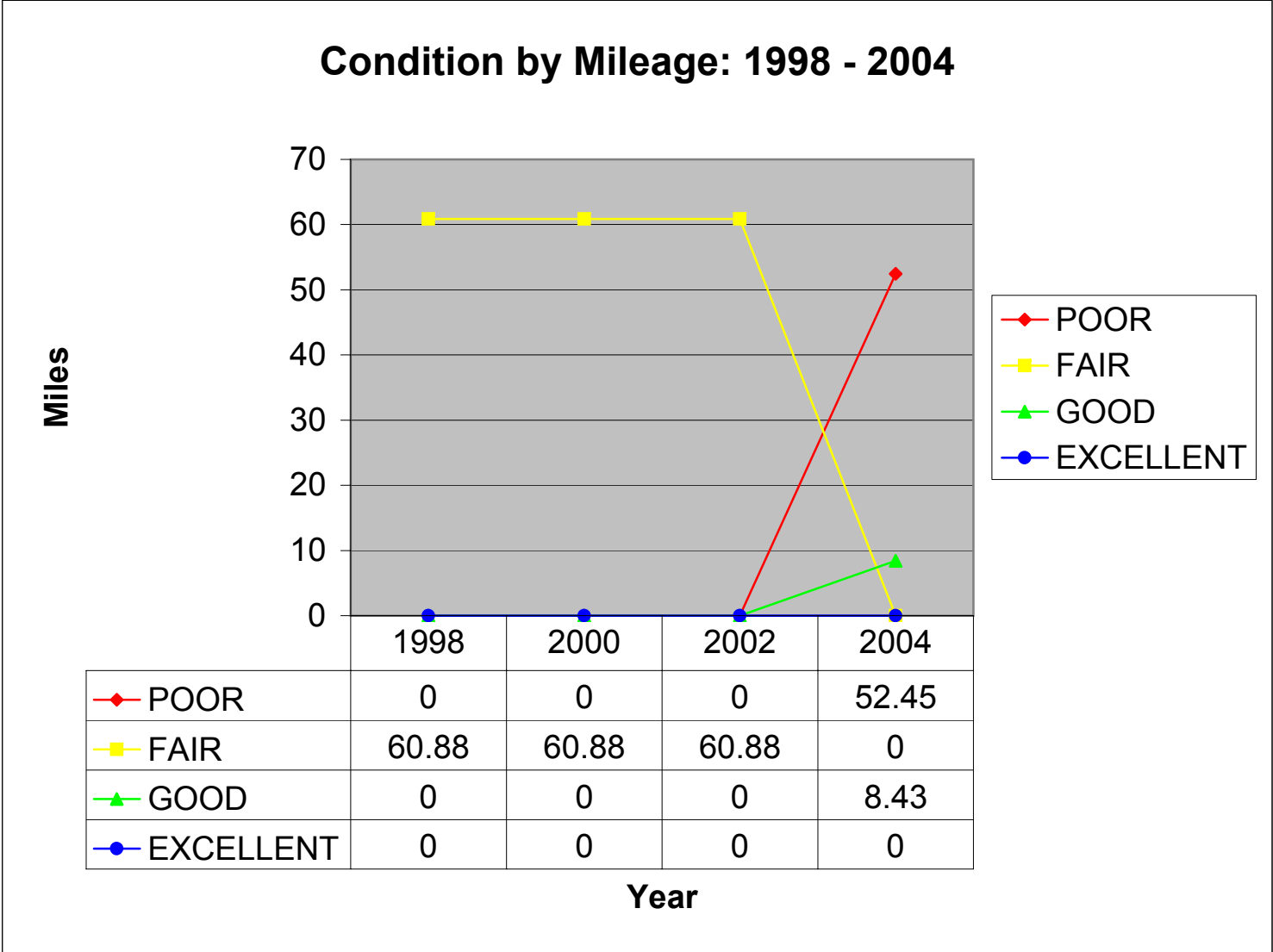
**TOTAL  
ROUTES  
13**

**TOTAL  
MI/KM  
370.91  
596.79**

| <b>FH<br/>ROUTE<br/>NO.</b> | <b>ROUTE<br/>NAME</b>          | <b>DESCRIPTION OF TERMINI</b>                                                                                                                                                                                                                                                                                 | <b>NATIONAL<br/>FOREST</b>       | <b>COUNTY</b>                | <b>LENGTH<br/>MI.</b> | <b>LENGTH<br/>KM.</b> |
|-----------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------|-----------------------|-----------------------|
| 1                           | Trotters Road                  | This route starts at the junction with I-94 and proceeds northerly 60.88 miles (97.96 km) over SR-16 to the junction with SR-68.                                                                                                                                                                              | Dakota<br>Prairies<br>Grasslands | Golden<br>Valley<br>McKenzie | 60.88                 | 97.96                 |
| 2                           | Blacktail Road                 | This route starts at the junction with SR-16, 2 miles south of Trotters and proceeds easterly 43.85 miles (70.55 km) over various County Roads to the junction with US-85 in South Fairfield.                                                                                                                 | Dakota<br>Prairies<br>Grasslands | Billings<br>Golden<br>Valley | 43.85                 | 70.55                 |
| 3                           | East River<br>Road             | This route starts at the junction with US-85 near Amidon and proceeds westerly 1.18 miles (1.9 km) over Slope CR-4417, northerly 12.56 miles (20.21 km) over Hamann Road in Slope County, and then northerly 24.67 miles (39.69 km) over various Billings County Roads                                        | Dakota<br>Prairies<br>Grasslands | Billings<br>Slope            | 38.41                 | 61.80                 |
| 4                           | Three V's Road                 | This route starts at the junction with FH-5, 5.0 miles south of the southern end of SR-16, and proceeds easterly and southerly 24.69 miles (39.73 km) over various County Roads in Golden Valley and Slope Counties to the junction with Slope CR-4417 near the Wolfgrum Ranch 14.5 miles west of US-85.      | Dakota<br>Prairies<br>Grasslands | Golden<br>Valley<br>Slope    | 24.69                 | 39.73                 |
| 5                           | Marmarth-<br>Golva             | This route starts at the junction with US-12 in Marmarth and proceeds northerly 33.44 miles (53.8 km) over FDR 783 to the southern end of SR-16, two miles south of Golva.                                                                                                                                    | Dakota<br>Prairies<br>Grasslands | Slope<br>Golden<br>Valley    | 33.44                 | 53.80                 |
| 6                           | Tobacco<br>Garden-<br>Charlson | This route starts at the junction with SR-1806 at Tobacco Garden and proceeds easterly 11.41 miles (18.36 km) over CR-02 and .98 miles (1.58 km) over CR-55 to SR-1806 two miles west of Charlson.                                                                                                            | Dakota<br>Prairies<br>Grasslands | McKenzie                     | 12.39                 | 19.94                 |
| 7                           | Magpie Creek<br>Road           | This route starts at the junction with US-85, 1.5 miles north of Fairfield, and proceeds westerly and northerly 19.16 miles (30.83 km) over FR 712, northerly 16.24 miles (26.13 km) on FR's 804 and 810, and then looping back on McKenzie CR-50 easterly 11.07 miles (17.81 km) to US-85 near Grassy Butte. | Dakota<br>Prairies<br>Grasslands | Billings<br>McKenzie         | 46.47                 | 74.77                 |
| 8                           | Horse Creek<br>Road            | This route starts at the junction with SR-68, 6.9 miles east of the Montana State Line, and proceeds northwesterly 9.34 miles (15.03 km) over CR-03 to the junction with CR-01.                                                                                                                               | Dakota<br>Prairies<br>Grasslands | McKenzie                     | 9.34                  | 15.03                 |

|    |                         |                                                                                                                                                                                                                                                                                                                                                                                         |                            |                        |       |       |
|----|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------|-------|-------|
| 9  | Sather Lake-Charbonneau | This route starts at the junction with SR-68, approximately 3 miles west of CR-15, and proceeds northerly 17.0 miles (27.4 km) over CR-13 to the junction with SR-200 north of Charbonneau.                                                                                                                                                                                             | Dakota Prairies Grasslands | McKenzie               | 17.00 | 27.35 |
| 10 | Grassy Butte, East      | This route starts at the junction with US-85 in Grassy Butte and proceeds easterly 7.79 miles (12.53 km) over FDR-810 to the Dunn County Line (forest boundary).                                                                                                                                                                                                                        | Dakota Prairies Grasslands | McKenzie               | 7.79  | 12.53 |
| 11 | Blue Buttes             | This route starts at the junction with SR-22, 3.5 miles north of Bear Den Creek, and proceeds westerly 6.13 miles (9.86 km) over Indian Reservation Road (IRR) 4 and a County Road to the intersection with CR-14, four miles north of SR-73.                                                                                                                                           | Dakota Prairies Grasslands | McKenzie               | 6.13  | 9.86  |
| 12 | West River Road         | This route starts at the junction with I-94, 1.5 miles east of the Golden Valley County Line, and proceeds northerly 9.51 miles (15.3 km) on FDR-730, 5.95 miles (9.57 km) on FDR-726, 4.63 miles (7.45 km) on FDR-729, 6 miles (9.65 km) on FDR-725, 4.95 miles (7.96 km) on FDR-722, and 4.25 miles (6.84 km) on FDR-708, to the intersection with FH-02 near the Elkhorn Ranch site. | Dakota Prairies Grasslands | Billings Golden Valley | 35.29 | 56.78 |
| 13 | Red Wing Road           | This route starts at the junction with SR-16 (FH-01), west of the Leland School and proceeds easterly on CR-38 19.29 miles (31.04 km) to the intersection with CR-27 and then northerly on CR-27 15.94 miles (25.65 km) to the intersection with US-85 west of Arnegard.                                                                                                                | Dakota Prairies Grasslands | McKenzie               | 35.23 | 56.69 |

# North Dakota Forest Highway Network - Condition by Mileage

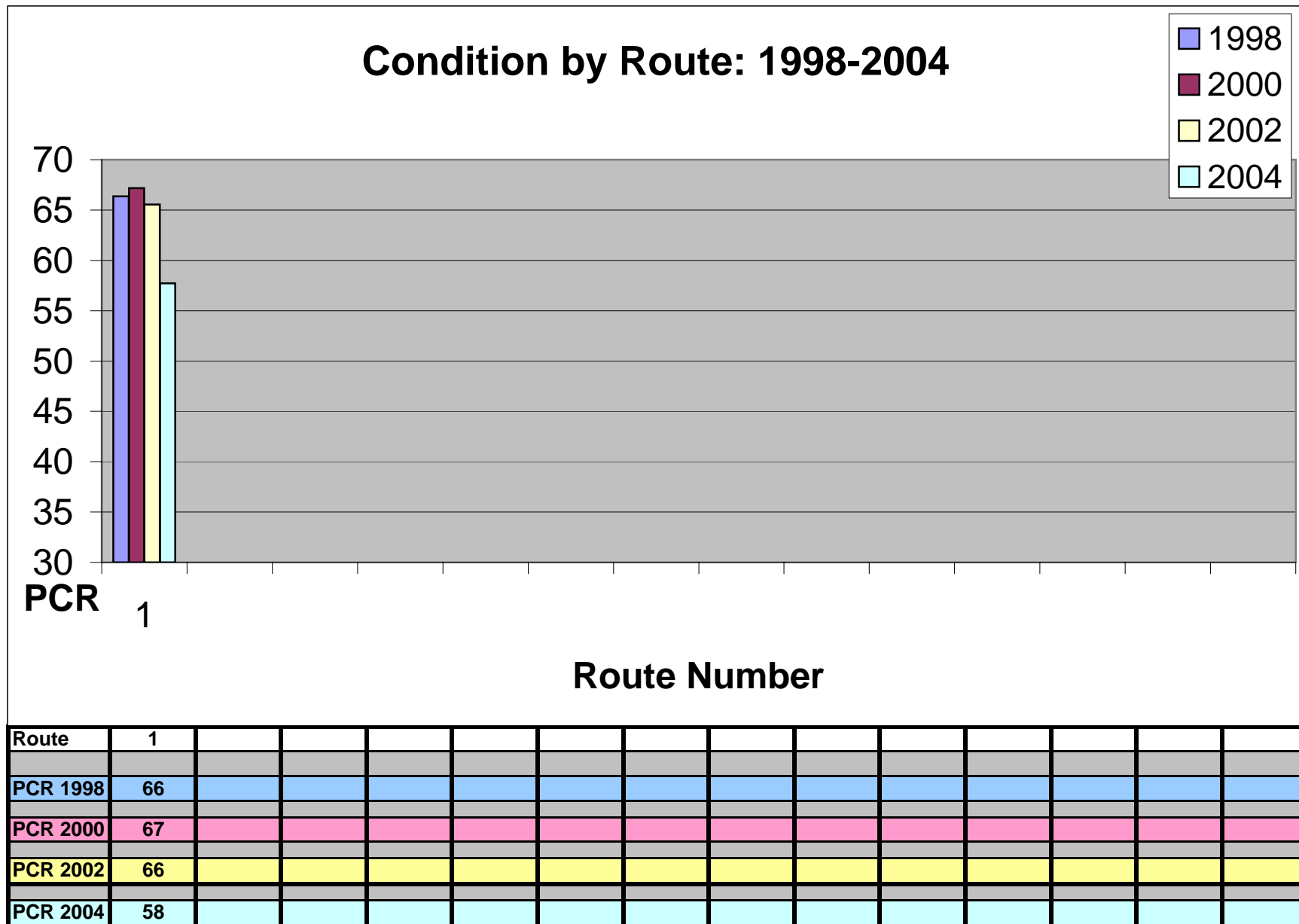


Note: For comparison, road segments with no rating data for one or more years are not included in the above graph.

(Figure 1)

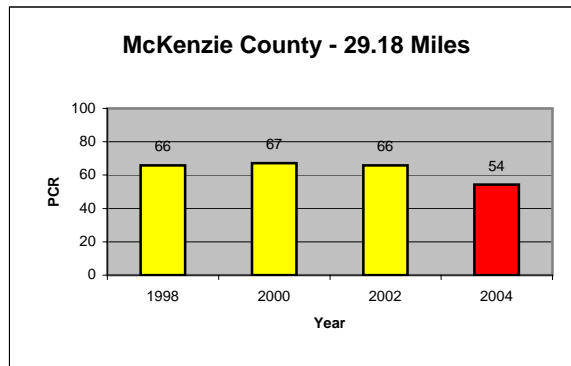
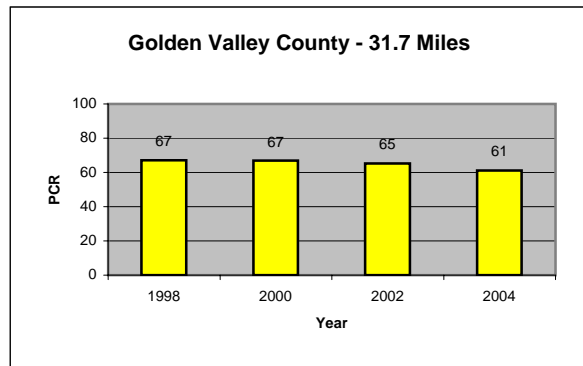


# North Dakota Forest Highway Network -Condition by Route

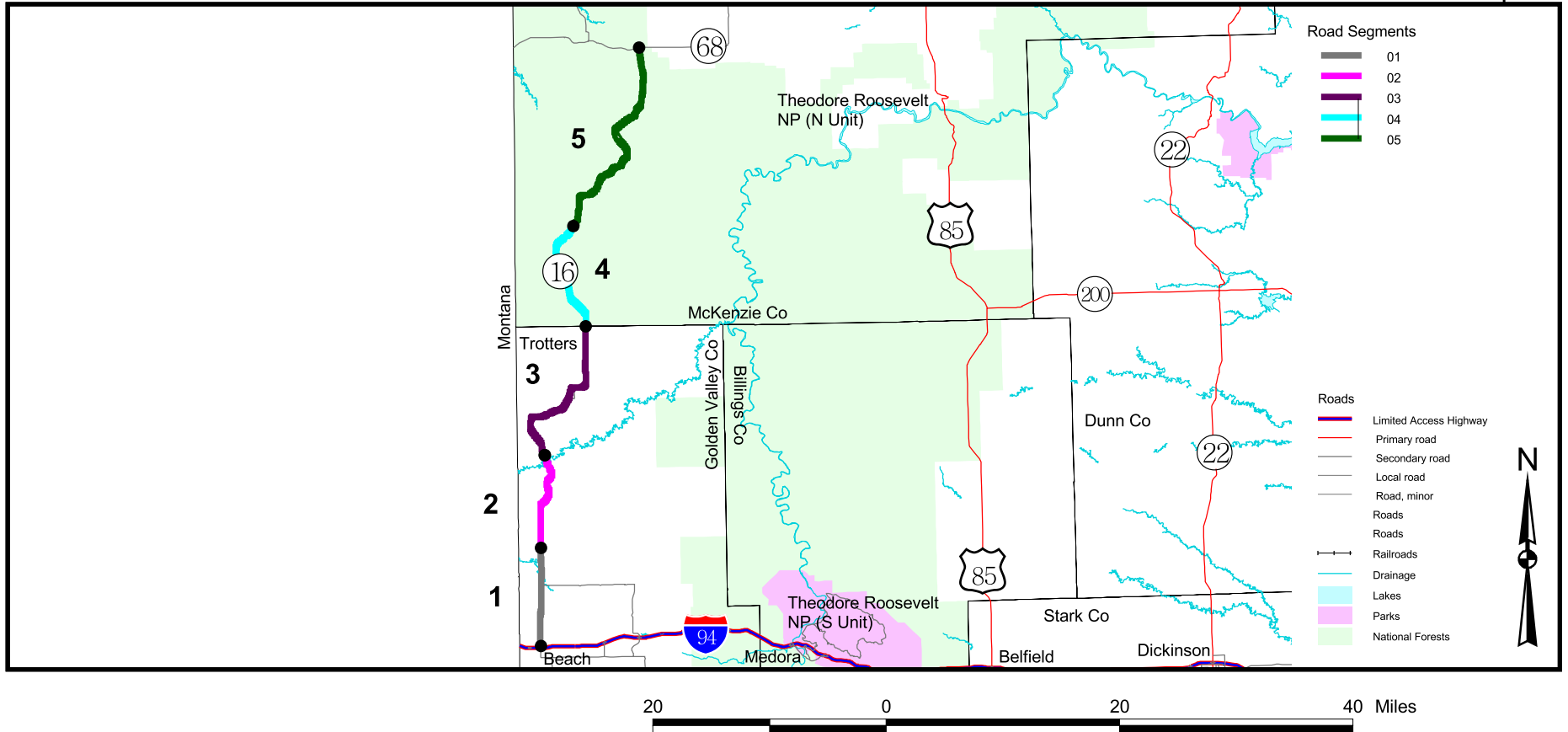


(Figure 2)

# North Dakota Forest Highway Network - Pavement Condition Ratings by County



(Figures 3 and 4)

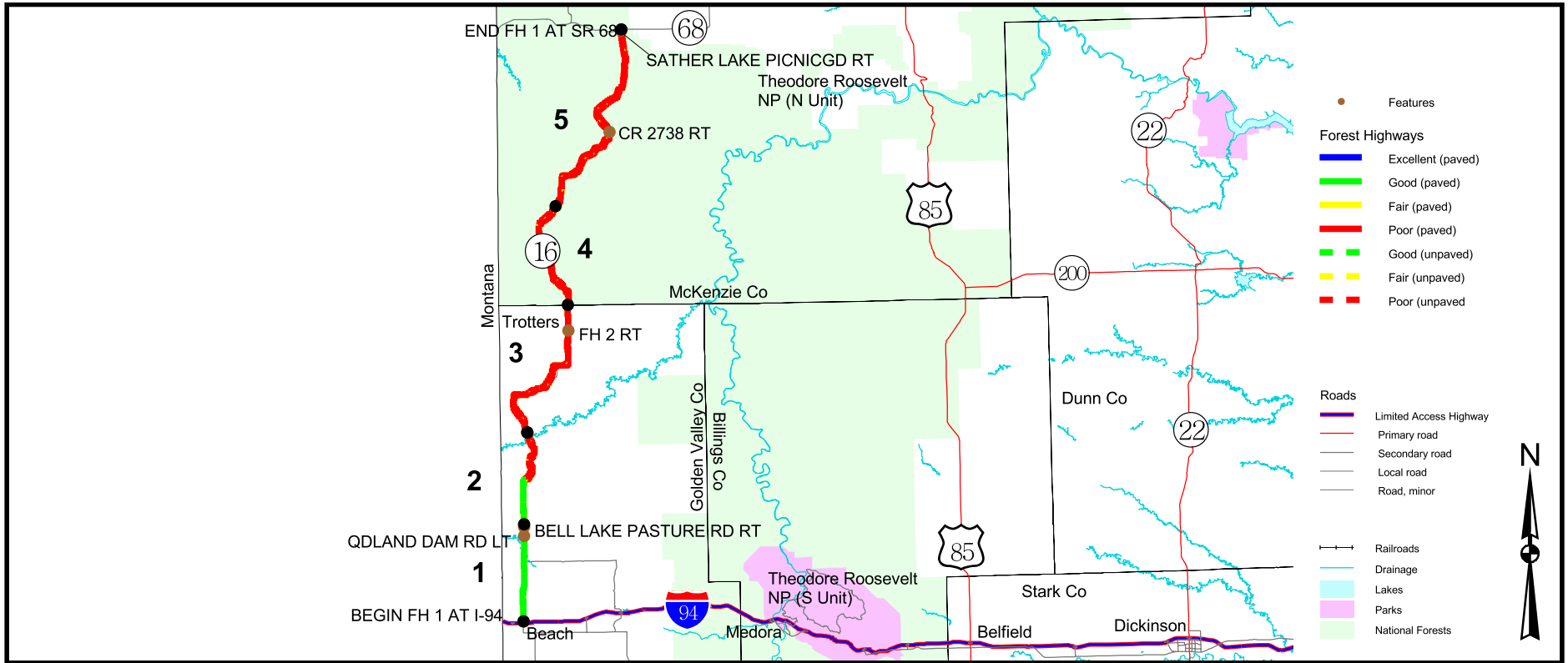


FH-01, Trotters Road. This route starts at the junction with I-94 and proceeds northerly 60.88 miles (97.96 km) over SR-16 to the junction with SR-68.

Evaluation: SR-16 is owned and operated by the North Dakota Department of Transportation. It is functionally classified as a major collector serving the Little Missouri National Grassland. According to Forest Service data, 20 to 50% of the traffic is Forest related. The principal Forest resources served are recreation, grazing, gas and oil. The route also serves other local needs including schools, mail delivery, commercial supply and access to private property within the Grassland. It serves one Forest Service owned campground.

FH 1 Trotters Road

Pavement Condition

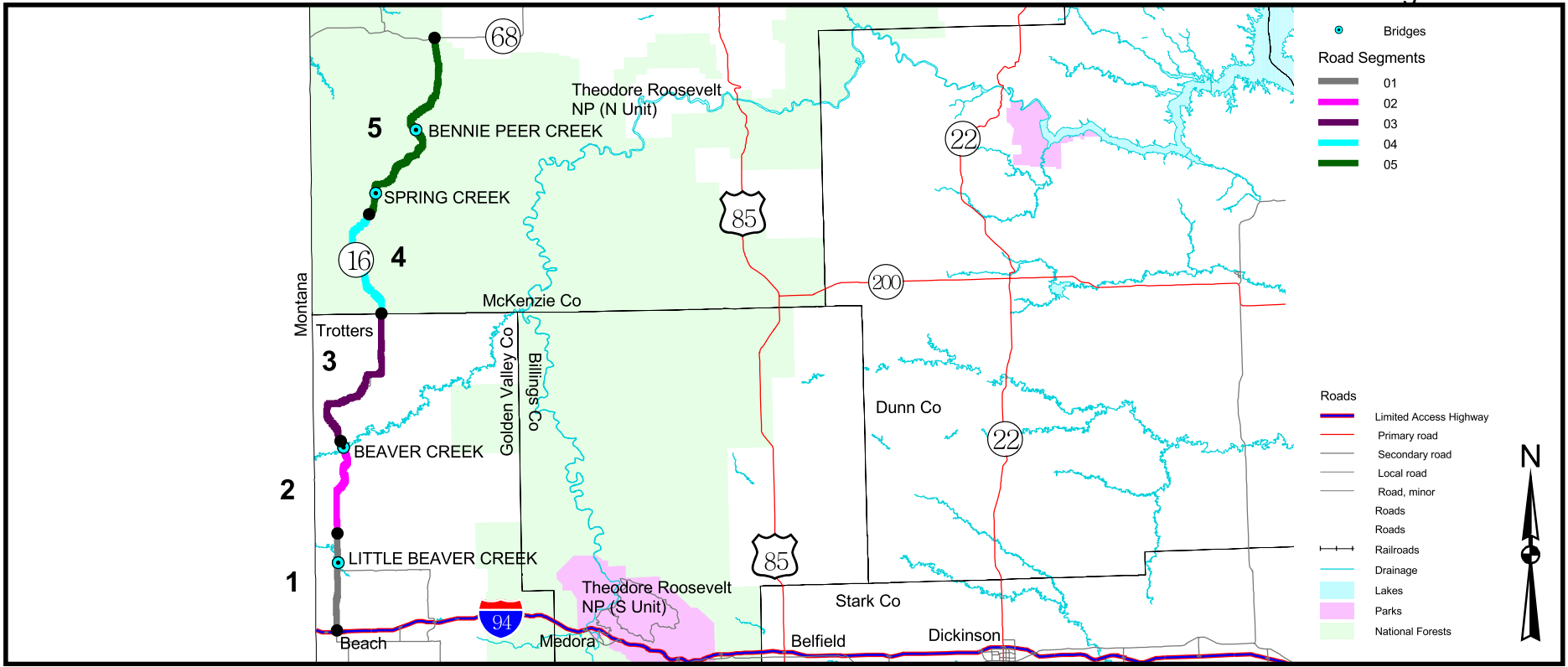


Map above shows the actual condition (paved sections only) which may not correspond to the average condition reported for each segment in the chart below. See Summary page i for more information.

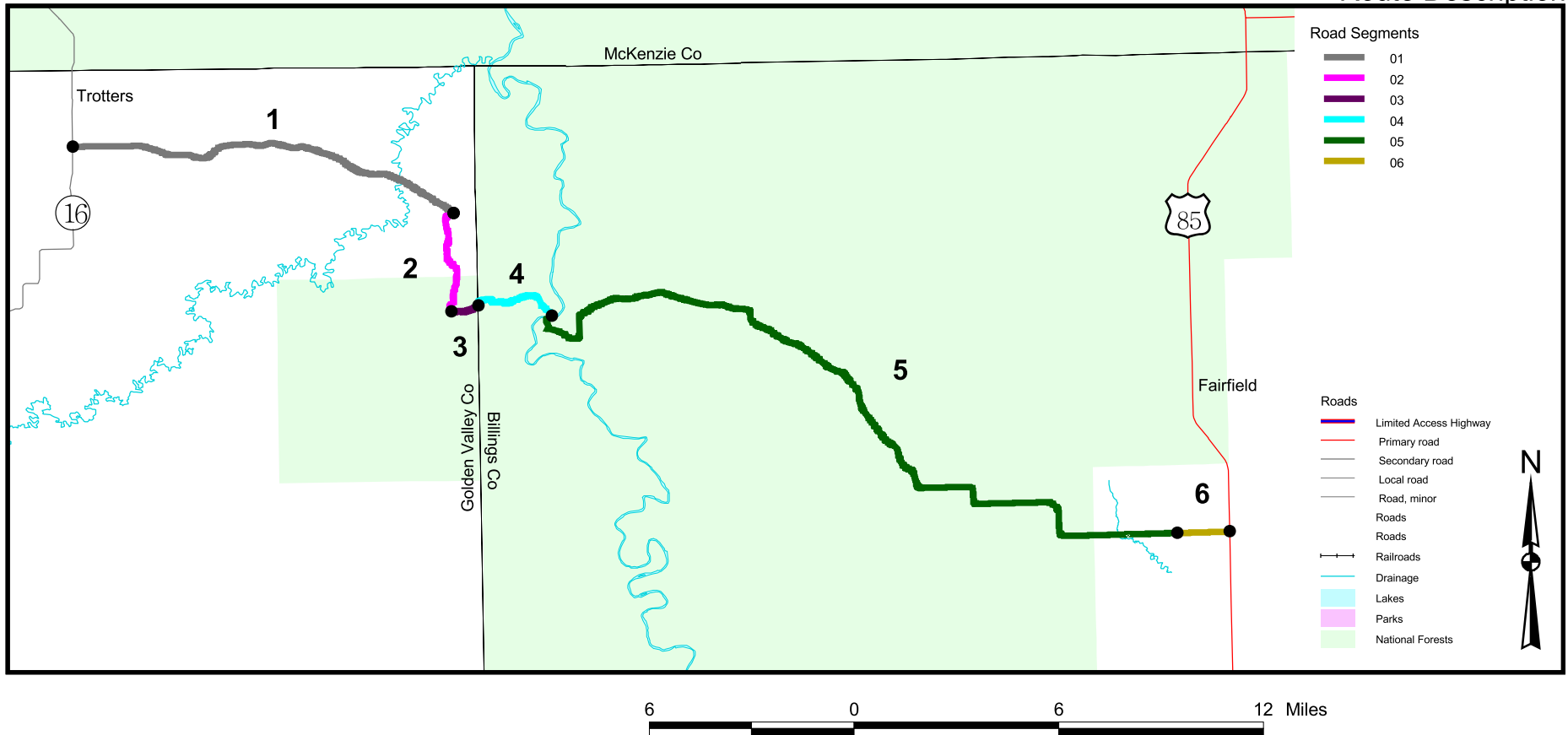


TOTAL ROUTE LENGTH: 60.88 Miles

| FH | SEG NUM | STATE/LOCAL ROUTE | START MP | END MP | SEG LENGTH | ADT | WIDTHS  |       | SURFACE TYPE | IRI | REMAINING SURFACE LIFE (YEARS) | CONDITION RATING | CONDITION |
|----|---------|-------------------|----------|--------|------------|-----|---------|-------|--------------|-----|--------------------------------|------------------|-----------|
|    |         |                   |          |        |            |     | ROADWAY | PAVED |              |     |                                |                  |           |
| 1  | 1       | SR 16             | 76.78    | 85.21  | 8.43       | 460 | 36      | 24    | Flexible     | 68  | 14                             | 76               | Good      |
| 1  | 2       | SR 16             | 85.21    | 93.81  | 8.60       | 270 | 36      | 24    | Flexible     | 107 | 7                              | 64               | Fair      |
| 1  | 3       | SR 16             | 93.81    | 108.48 | 14.67      | 200 | 36      | 24    | Flexible     | 161 | 2                              | 52               | Poor      |
| 1  | 4       | SR 16             | 108.48   | 118.48 | 10.00      | 190 | 36      | 24    | Flexible     | 166 | 2                              | 51               | Poor      |
| 1  | 5       | SR 16             | 118.48   | 137.66 | 19.18      | 250 | 36      | 24    | Flexible     | 140 | 3                              | 57               | Poor      |



| FH | STATE/LOCAL ROUTE | NBIS NUMBER | MP    | FACILITY            | OWNER | WIDTH (FEET) | LENGTH (FEET) | STRUCTURALLY DEFICIENT? | FUNCTIONALLY OBSOLETE? | SUFF. RATING |
|----|-------------------|-------------|-------|---------------------|-------|--------------|---------------|-------------------------|------------------------|--------------|
| 1  | SR-16             | 0016082907  | 82.7  | LITTLE BEAVER CREEK | NDDOT | 32.14        | 124.97        | -                       | -                      | 94.6         |
| 1  | SR-16             | 0016093454  | 93.2  | BEAVER CREEK        | NDDOT | 32.14        | 153.83        | -                       | -                      | 95.4         |
| 1  | SR-16             | 0016123906  | 110.5 | SPRING CREEK        | NDDOT | 32.14        | 24.93         | -                       | -                      | 97.3         |
| 1  | SR-16             | 0016128664  | 118.5 | BENNIE PEER CREEK   | NDDOT | 32.14        | 140.06        | -                       | -                      | 96.2         |

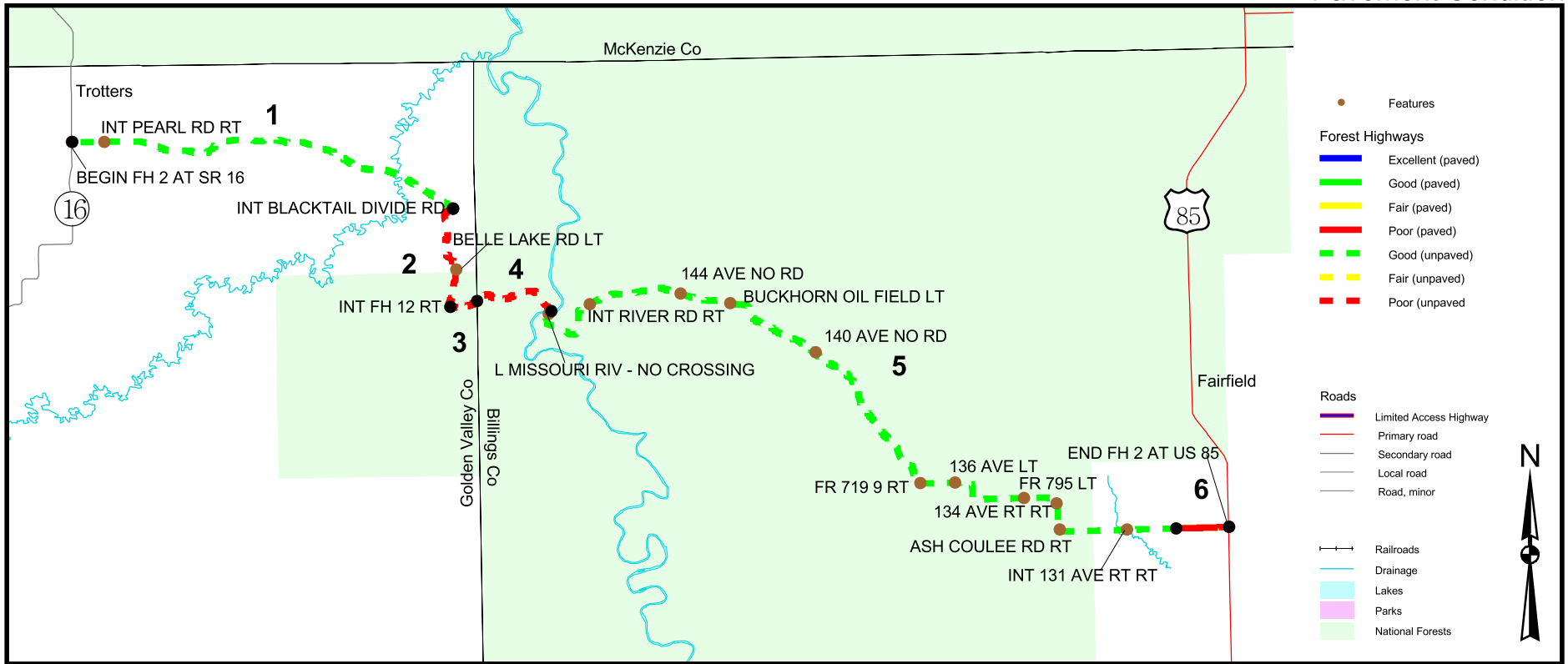


FH-02, Blacktail Road, This route starts at the junction with SR-16, 2 miles south of Trotters and proceeds easterly 43.85 miles (70.55 km) over various County Roads to the junction with US-85 in South Fairfield.

Evaluation: FH-02 is owned and operated by Golden Valley and Billings Counties. It is functionally classified as a local road serving the Little Missouri National Grassland. According to Forest Service data, 20 to 50% of the traffic is Forest related. The principal Forest resources served are recreation, grazing, gas and oil. The route also serves other local needs including schools, mail delivery, commercial supply, access to private property within the Grassland and access to the Elkhorn Ranch Unit of Theodore Roosevelt National Park. Note that there is currently no crossing of the Little Missouri River on this route.

# FH 2 Blacktail Road

# Pavement Condition



Map above shows the actual condition (paved sections only) which may not correspond to the average condition reported for each segment in the chart below. See Summary page i for more information.

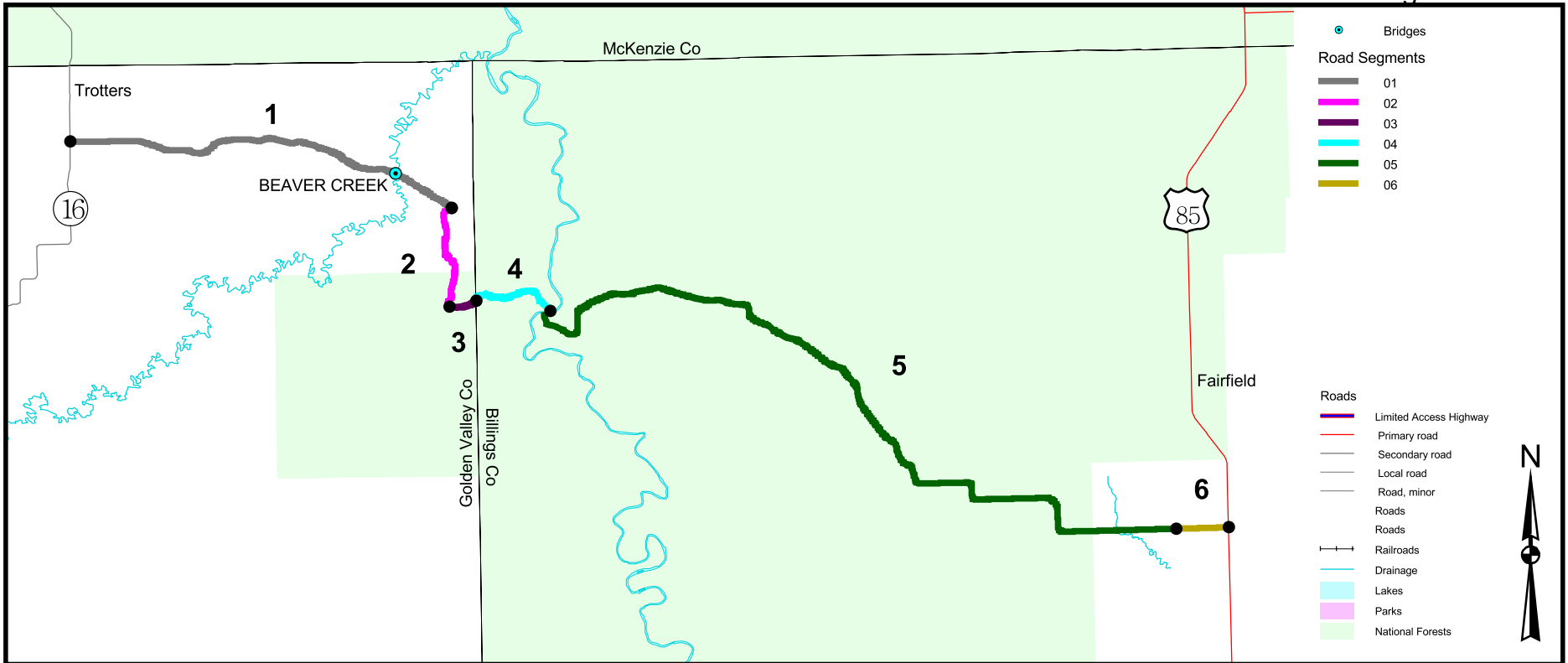


TOTAL ROUTE LENGTH: 43.85 Miles

| FH | SEG NUM | STATE/LOCAL ROUTE | START MP | END MP | SEG LENGTH | ADT | WIDTHS  |       | SURFACE TYPE | IRI | REMAINING SURFACE LIFE (YEARS) | CONDITION RATING | CONDITION |
|----|---------|-------------------|----------|--------|------------|-----|---------|-------|--------------|-----|--------------------------------|------------------|-----------|
|    |         |                   |          |        |            |     | ROADWAY | PAVED |              |     |                                |                  |           |
| 2  | 1       | Divide Road       | 0.00     | 11.91  | 11.91      | 90  | 20      | N/A   | Granular     | N/A | 0                              | N/A              | Good      |
| 2  | 2       | Divide Road       | 11.91    | 15.17  | 3.26       | 20  | 20      | N/A   | Granular     | N/A | 0                              | N/A              | Poor      |
| 2  | 3       | Divide Road       | 15.17    | 16.01  | 0.84       | 20  | 20      | N/A   | Granular     | N/A | 0                              | N/A              | Poor      |
| 2  | 4       | Divide Road       | 16.01    | 18.75  | 2.74       | 20  | 20      | N/A   | Granular     | N/A | 0                              | N/A              | Poor      |
| 2  | 5       | Blacktail Road    | 18.75    | 42.30  | 23.55      | 210 | 20      | N/A   | Granular     | N/A | 0                              | N/A              | Good      |
| 2  | 6       | 20th St           | 42.30    | 43.85  | 1.55       | 150 | 30      | 24    | Flexible     | 269 | 0                              | 33               | Poor      |

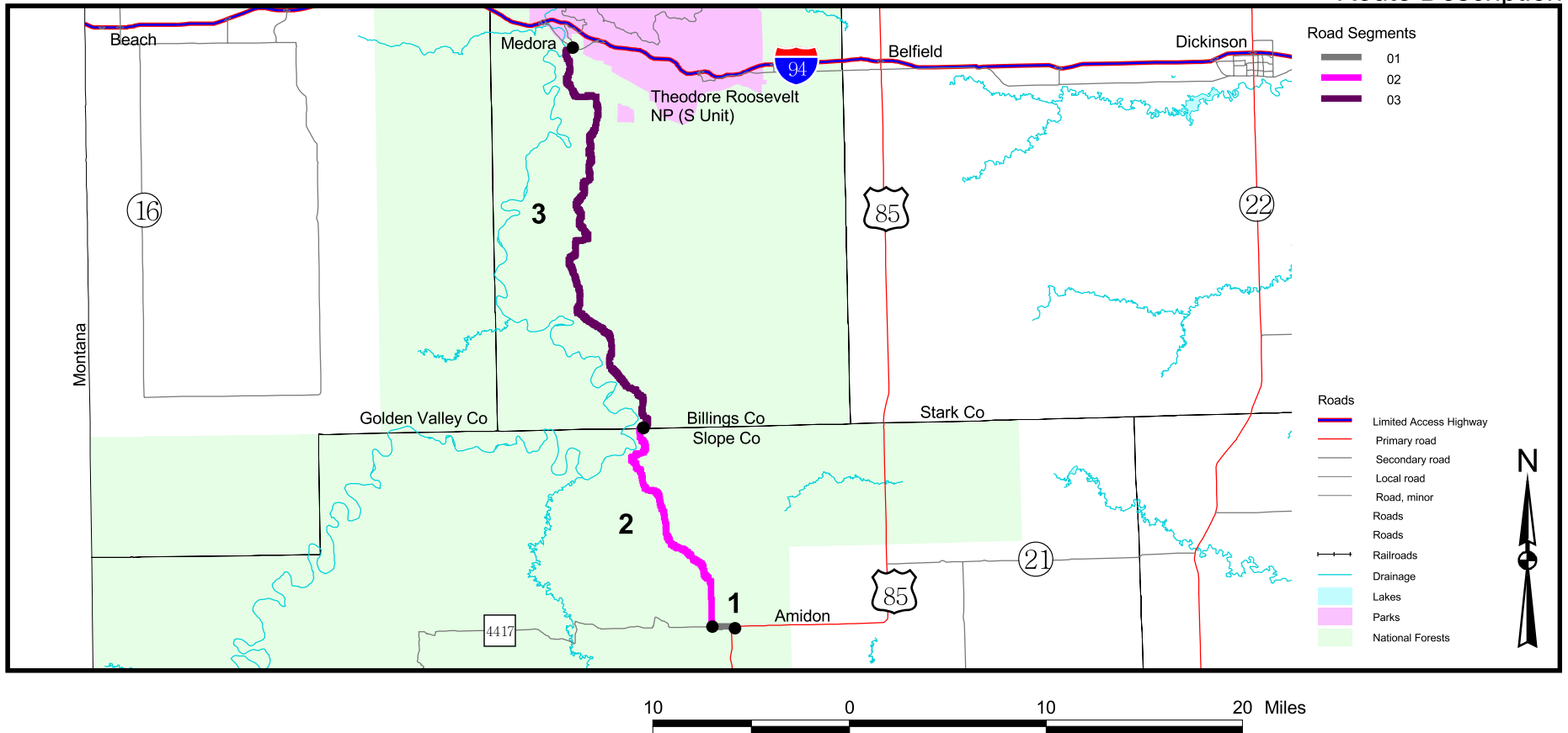
FH 2 Blacktail Road

Bridge Condition



| FH | STATE/LOCAL ROUTE | NBIS NUMBER    | MP  | FACILITY     | OWNER      | WIDTH (FEET) | LENGTH (FEET) | STRUCTURALLY DEFICIENT? | FUNCTIONALLY OBSOLETE? | SUFF. RATING |
|----|-------------------|----------------|-----|--------------|------------|--------------|---------------|-------------------------|------------------------|--------------|
| 2  | N/A               | 00000017116030 | 9.9 | BEAVER CREEK | Golden Vly | 28.86        | 145.96        | -                       | -                      | 91.6         |



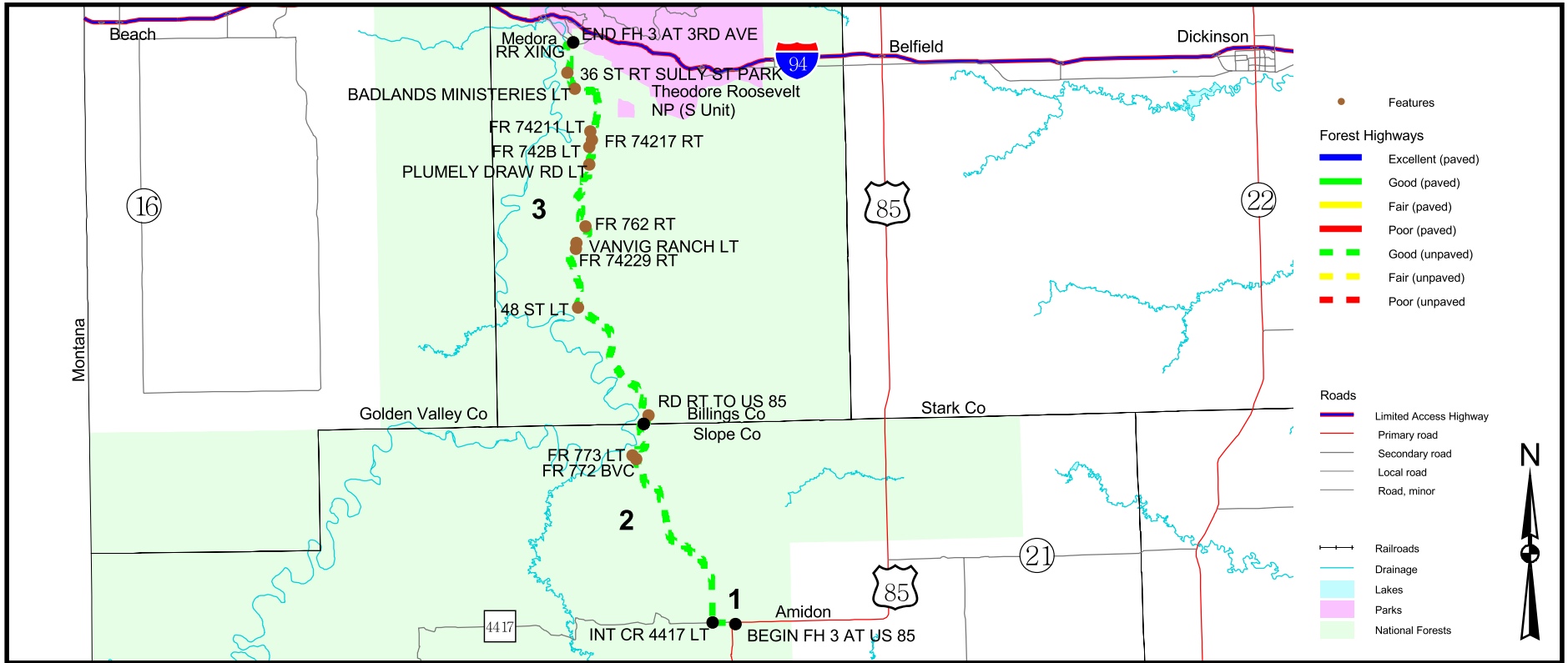


FH-03, East River Road. This route starts at the junction with US-85 near Amidon and proceeds westerly 1.18 miles (1.9 km) over Slope CR-4417, northerly 12.56 miles (20.21 km) over Hamann Road in Slope County, and then northerly 24.67 miles (39.69 km) over various Billings County Roads to the junction with 3rd Avenue in Medora.

Evaluation: CR-4417 is owned and operated by Slope County. It is functionally classified as a major collector. The remaining portion of FH-03 is owned and operated by Slope and Billings Counties and is classified as a local road serving the Little Missouri National Grassland. According to Forest Service data, 75% of the traffic is Forest related. The principal Forest resources served are recreation, grazing, gas and oil. It serves one Forest Service owned campground and a State park. The route also serves other local needs including schools, mail delivery, commercial supply and access to private property within the Grassland.

# FH 3 East River Road

# Pavement Condition



Map above shows the actual condition (paved sections only) which may not correspond to the average condition reported for each segment in the chart below. See Summary page i for more information.

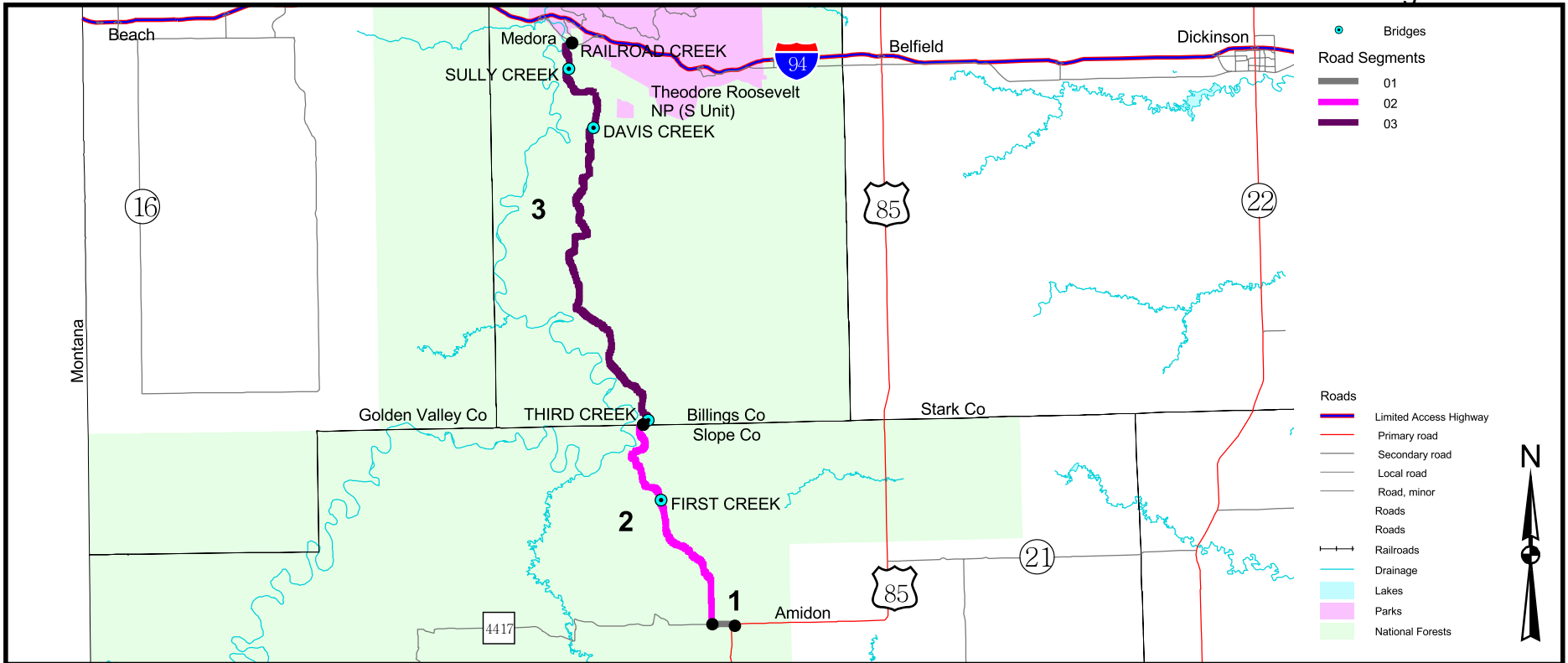


TOTAL ROUTE LENGTH: 38.41 Miles

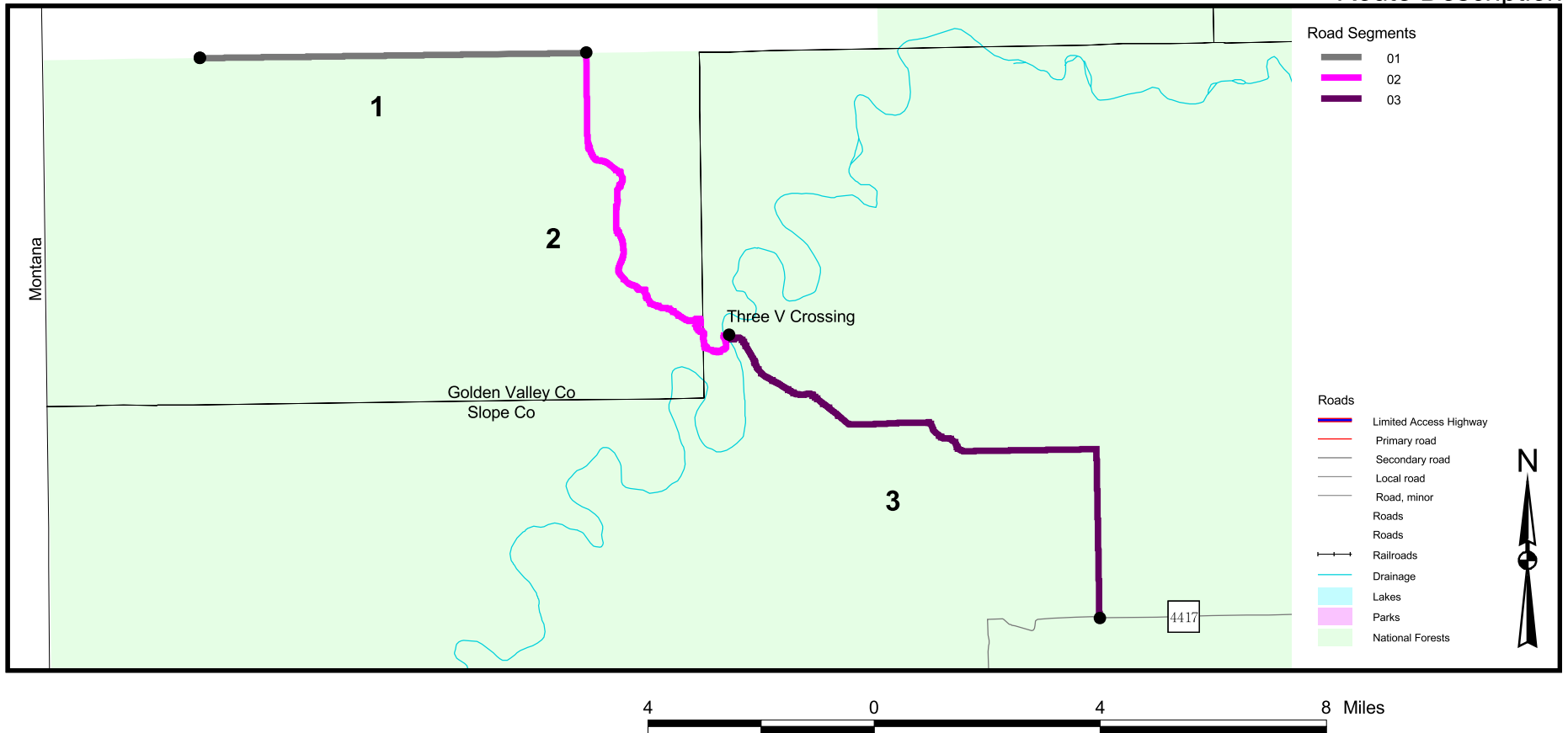
| FH | SEG NUM | STATE/LOCAL ROUTE | START MP | END MP | SEG LENGTH | ADT | WIDTHS  |       | SURFACE TYPE | IRI | REMAINING SURFACE LIFE (YEARS) | CONDITION RATING | CONDITION |
|----|---------|-------------------|----------|--------|------------|-----|---------|-------|--------------|-----|--------------------------------|------------------|-----------|
|    |         |                   |          |        |            |     | ROADWAY | PAVED |              |     |                                |                  |           |
| 3  | 1       | CR 4417           | 0.00     | 1.18   | 1.18       | 210 | 24      | N/A   | Granular     | N/A | 0                              | N/A              | Good      |
| 3  | 2       | Hamann Road       | 1.18     | 13.74  | 12.56      | 210 | 24      | N/A   | Granular     | N/A | 0                              | N/A              | Good      |
| 3  | 3       | East River Road   | 13.74    | 38.41  | 24.67      | 300 | 24      | N/A   | Granular     | N/A | 0                              | N/A              | Good      |

FH 3 East River Road

Bridge Condition



| FH | STATE/LOCAL ROUTE | NBIS NUMBER     | MP   | FACILITY       | OWNER       | WIDTH (FEET) | LENGTH (FEET) | STRUCTURALLY DEFICIENT? | FUNCTIONALLY OBSOLETE? | SUFF. RATING |
|----|-------------------|-----------------|------|----------------|-------------|--------------|---------------|-------------------------|------------------------|--------------|
| 3  | N/A               | 000000044130040 | 8.7  | FIRST CREEK    | Slope Co.   | 27.88        | 69.86         | -                       | -                      | 97.9         |
| 3  | N/A               | 000000004110480 | 14.1 | THIRD CREEK    | Billings Co | 28.54        | 60.02         | -                       | -                      | 99.8         |
| 3  | N/A               | 000000004108330 | 32.5 | DAVIS CREEK    | Billings Co | 24.27        | 27.88         | -                       | -                      | 84.6         |
| 3  | N/A               | 000000004106300 | 36.8 | SULLY CREEK    | Billings Co | 24.00        | 70.85         | -                       | -                      | 96.8         |
| 3  | N/A               | 000000004106290 | 38.2 | RAILROAD CREEK | Billings Co | 24.92        | 36.00         | -                       | -                      | 100.0        |

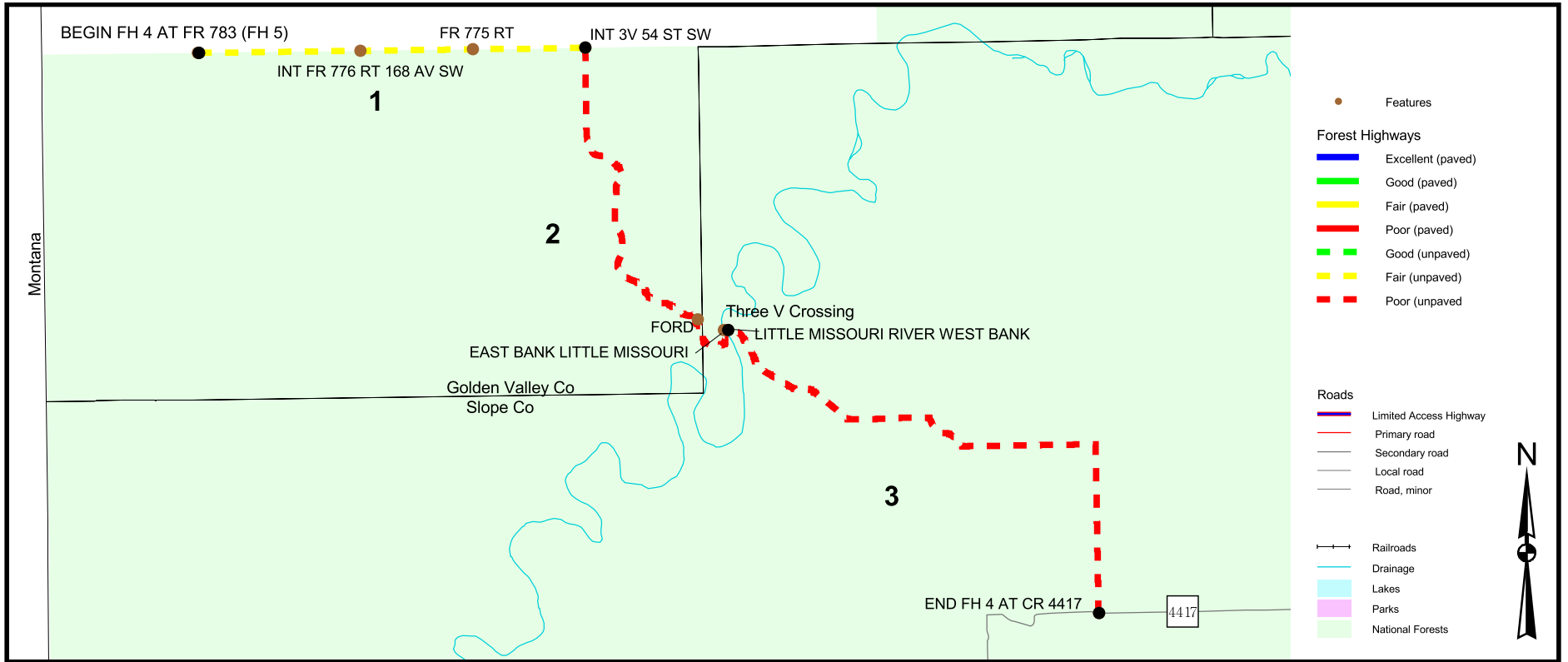


FH-04, Three V's Road. This route starts at the junction with FH-5, 5.0 miles south of the southern end of SR-16, and proceeds easterly and southerly 24.69 miles (39.73 km) over various County Roads in Golden Valley and Slope Counties to the junction with Slope CR-4417 near the Wolfgrum Ranch 14.5 miles west of US-85.

Evaluation: FH-04 is owned and operated by Golden Valley and Slope Counties. It is functionally classified as a minor collector serving the Little Missouri National Grassland. According to Forest Service data, 50% of the traffic is Forest related. The principal Forest resources served are grazing and oil. The route also serves other local needs by providing access to private property within the Grassland. Note that there is currently no developed crossing of the Little Missouri River on this route.

# FH 4 Three V's Road

## Pavement Condition

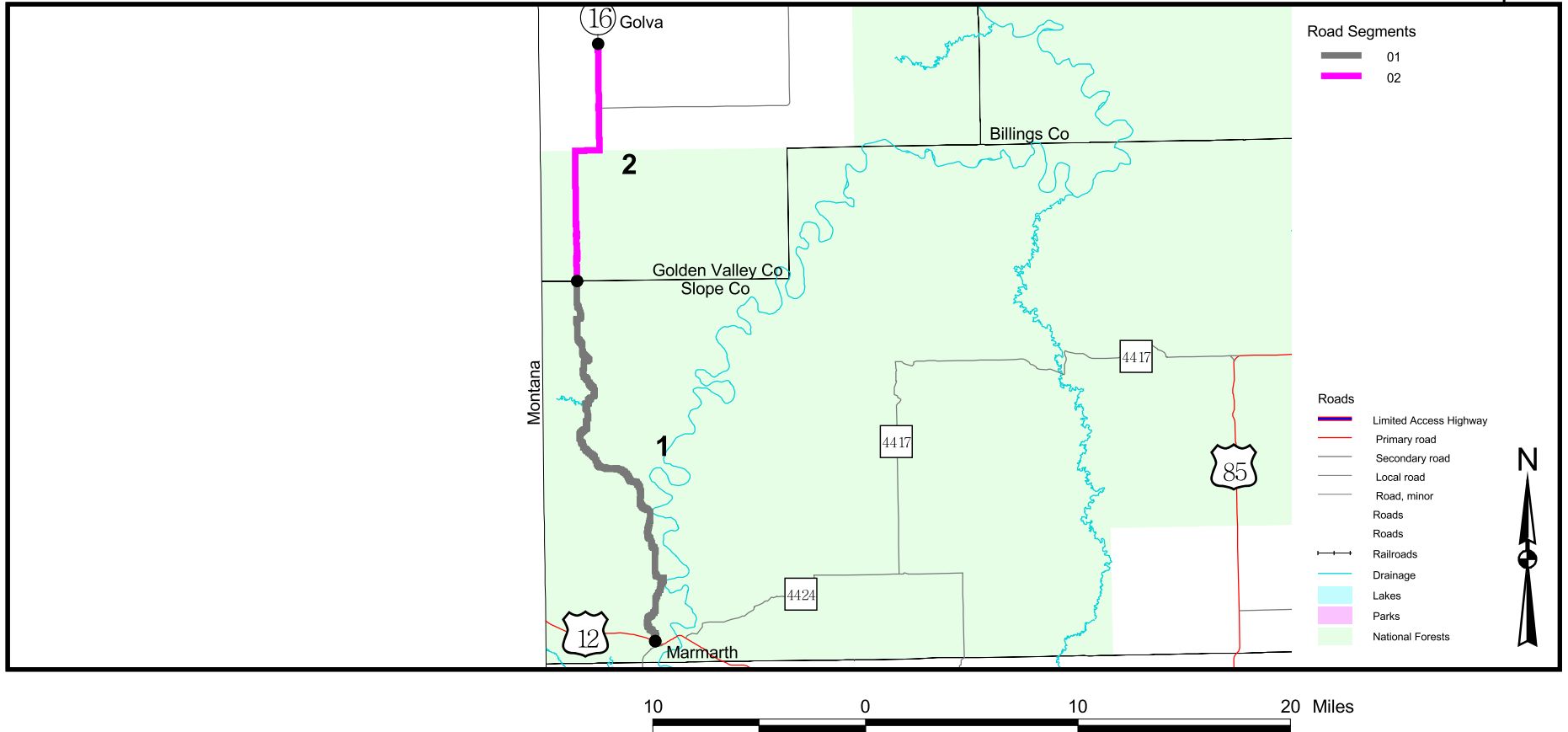


Map above shows the actual condition (paved sections only) which may not correspond to the average condition reported for each segment in the chart below. See Summary page i for more information.



TOTAL ROUTE LENGTH: 24.69 Miles

| FH | SEG NUM | STATE/LOCAL ROUTE | START MP | END MP | SEG LENGTH | ADT | WIDTHS  |       | SURFACE TYPE | IRI | REMAINING SURFACE LIFE (YEARS) | CONDITION RATING | CONDITION |
|----|---------|-------------------|----------|--------|------------|-----|---------|-------|--------------|-----|--------------------------------|------------------|-----------|
|    |         |                   |          |        |            |     | ROADWAY | PAVED |              |     |                                |                  |           |
| 4  | 1       | 9th St            | 0.00     | 6.84   | 6.84       | 70  | 20      | N/A   | Granular     | N/A | 0                              | N/A              | Fair      |
| 4  | 2       | FDR 774           | 6.84     | 14.25  | 7.41       | 70  | 20      | N/A   | Granular     | N/A | 0                              | N/A              | Poor      |
| 4  | 3       | FDR 774           | 14.25    | 24.69  | 10.44      | 10  | 20      | N/A   | Granular     | N/A | 0                              | N/A              | Poor      |

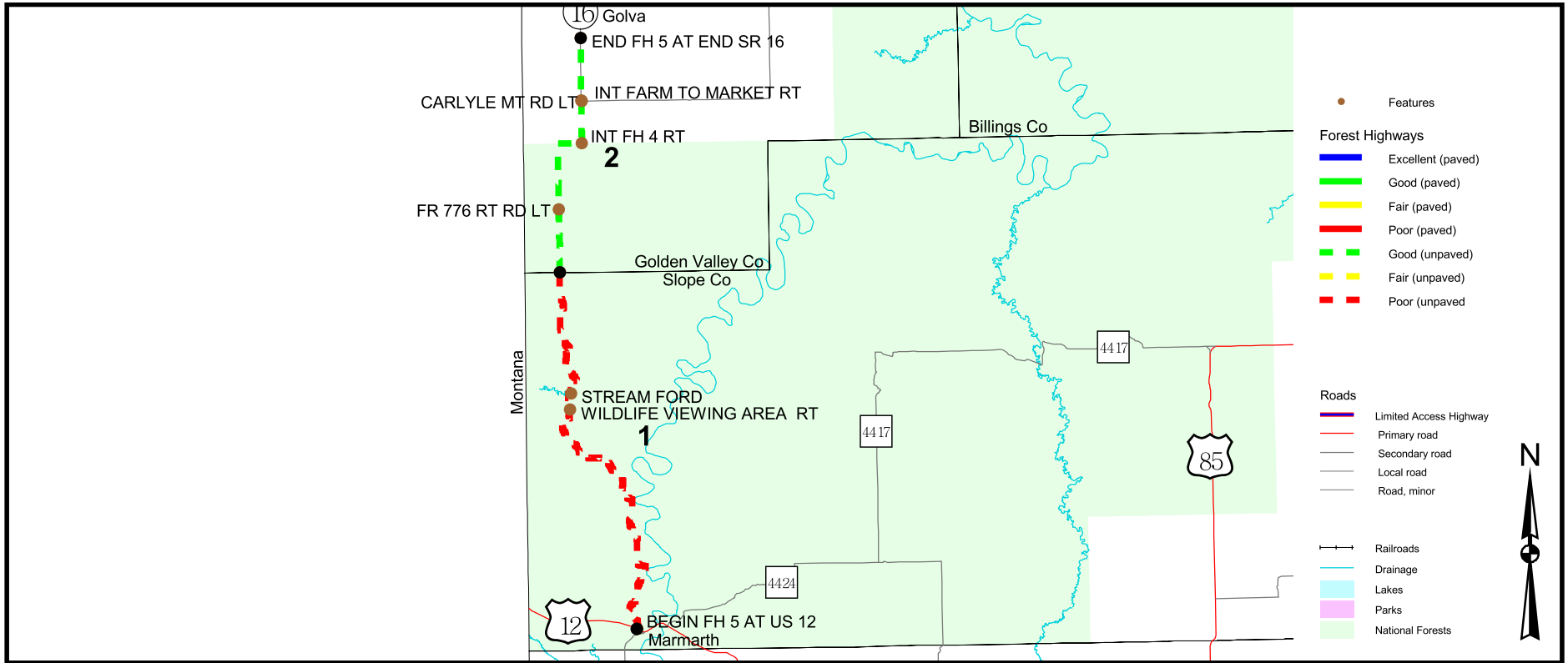


FH-05, Marmarth-Golva. This route starts at the junction with US-12 in Marmarth and proceeds northerly 33.44 miles (53.8 km) over FDR 783 to the southern end of SR-16, two miles south of Golva.

Evaluation: FH-04 is owned and operated by Golden Valley and Slope Counties. It is functionally classified as a local road from US-12 to 3 miles south of SR-16; from that point it is a major collector serving the Little Missouri National Grassland. According to Forest Service data, 50% of the traffic is Forest related. The principal Forest resources served are grazing and oil. The route also serves other local needs including schools, mail delivery, commercial supply and access to private property within the Grassland.

FH 5 Marmarth-Golva

Pavement Condition

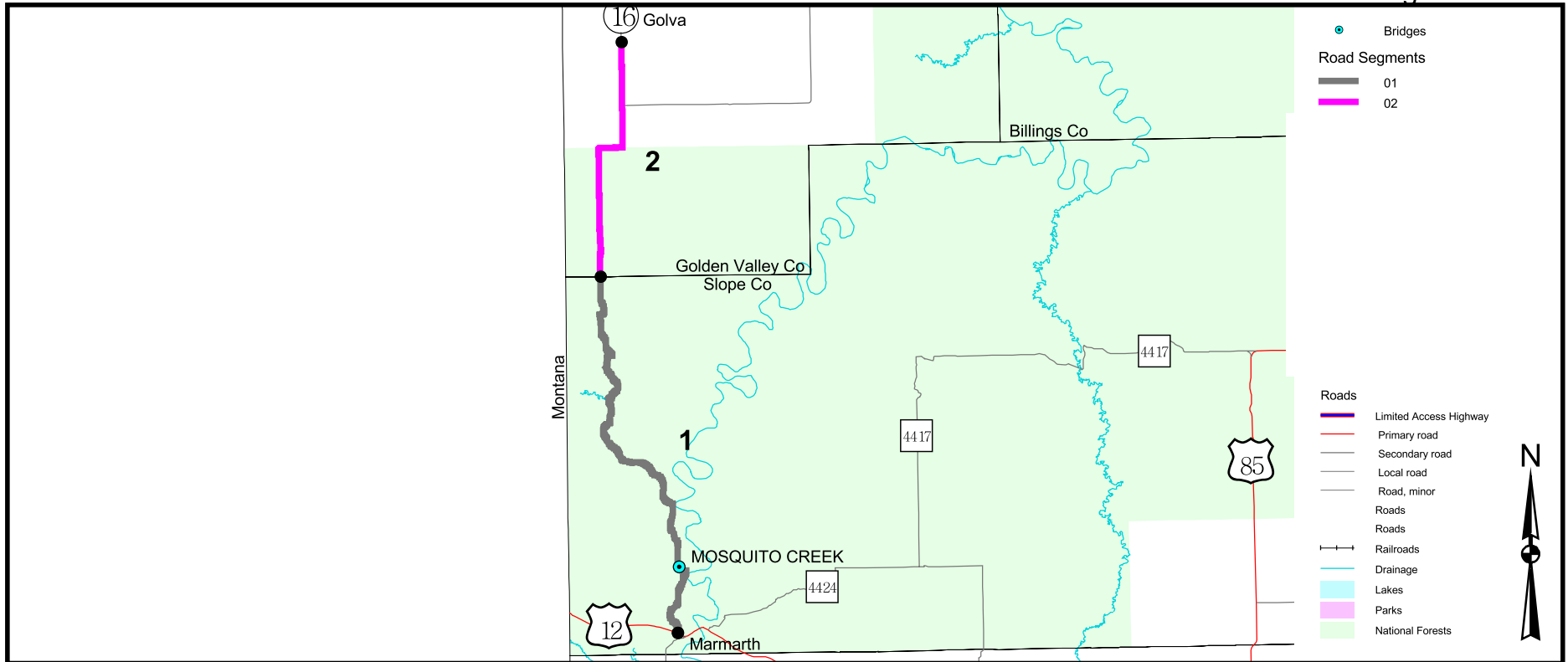


Map above shows the actual condition (paved sections only) which may not correspond to the average condition reported for each segment in the chart below. See Summary page i for more information.

TOTAL ROUTE LENGTH: 33.44 Miles

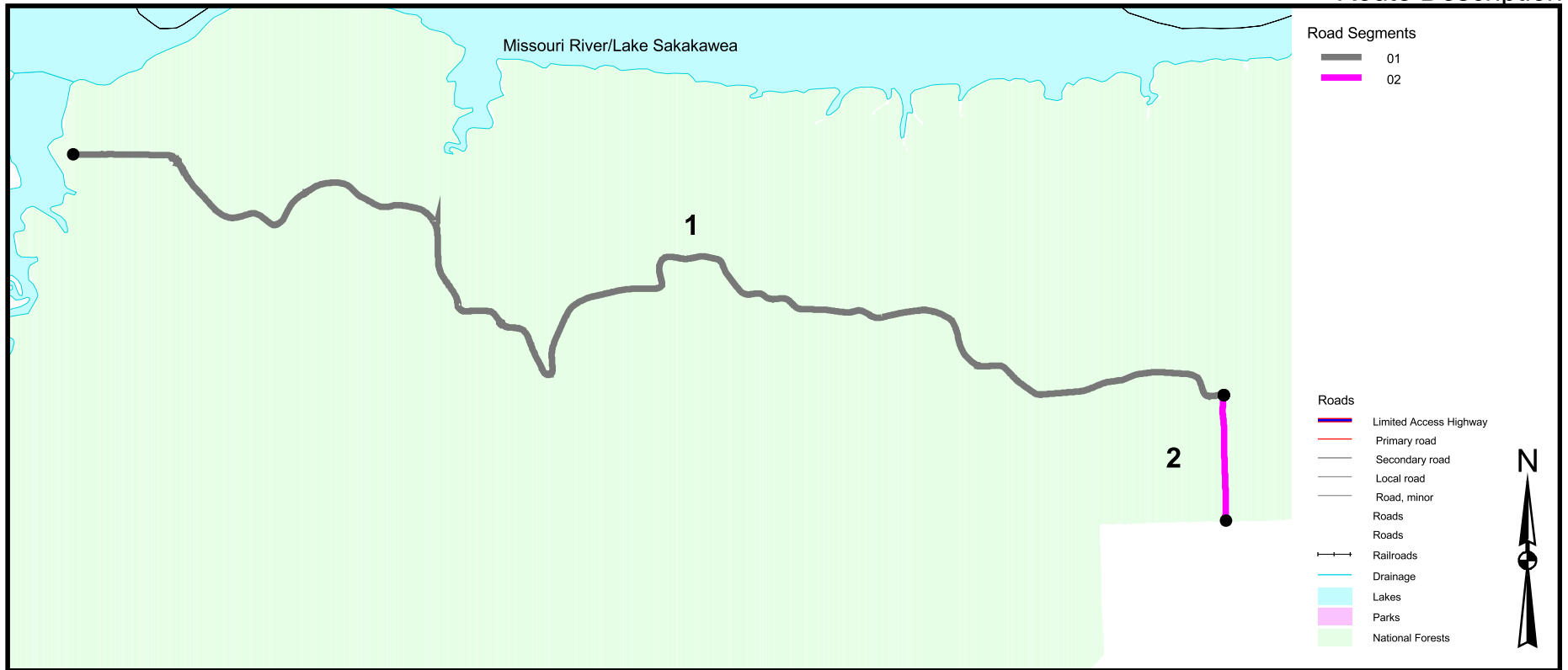


| FH | SEG NUM | STATE/LOCAL ROUTE | START MP | END MP | SEG LENGTH | ADT | WIDTHS  |       | SURFACE TYPE | IRI | REMAINING SURFACE LIFE (YEARS) | CONDITION RATING | CONDITION |
|----|---------|-------------------|----------|--------|------------|-----|---------|-------|--------------|-----|--------------------------------|------------------|-----------|
|    |         |                   |          |        |            |     | ROADWAY | PAVED |              |     |                                |                  |           |
| 5  | 1       | CR 38             | 0.00     | 21.15  | 21.15      | 25  | 12      | N/A   | Granular     | N/A | 0                              | N/A              | Poor      |
| 5  | 2       | CR 27             | 21.15    | 33.44  | 12.29      | 25  | 24      | N/A   | Granular     | N/A | 0                              | N/A              | Good      |



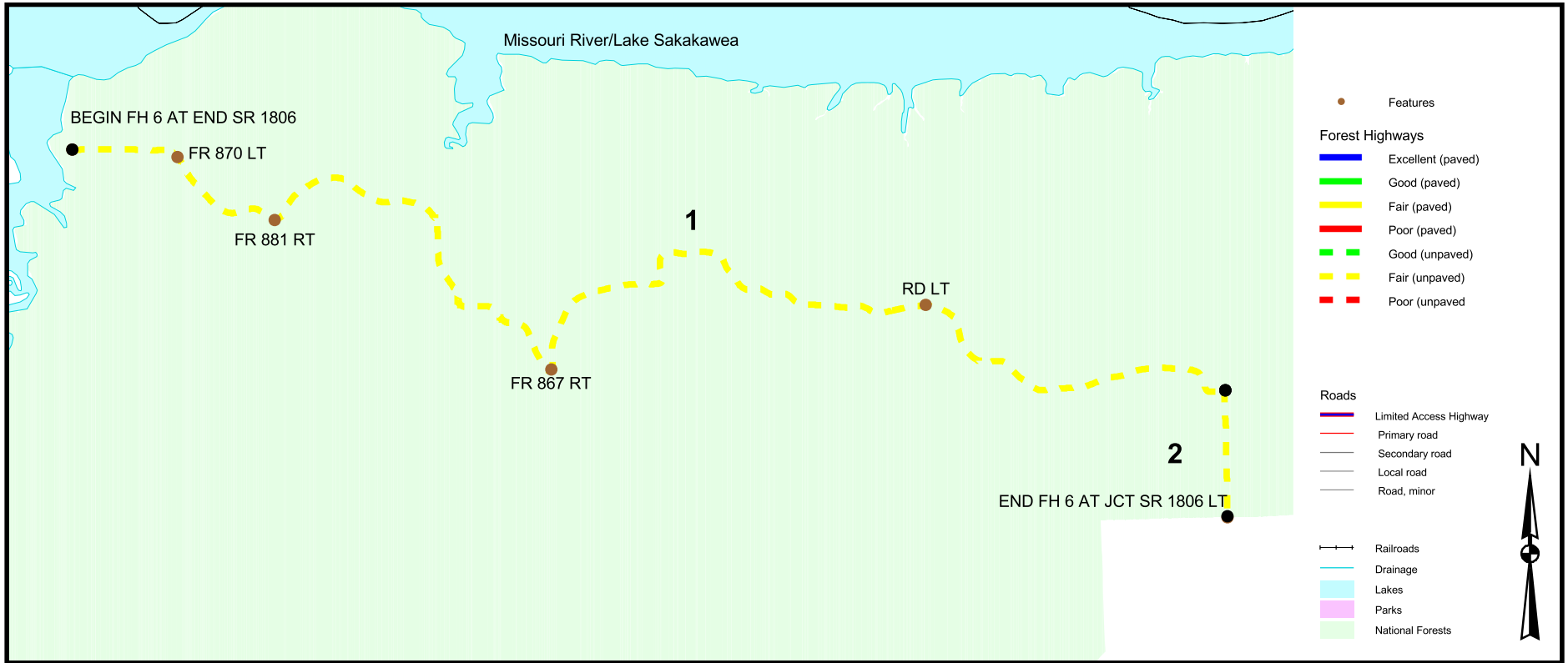
| FH | STATE/LOCAL ROUTE | NBIS NUMBER    | MP  | FACILITY       | OWNER     | WIDTH (FEET) | LENGTH (FEET) | STRUCTURALLY DEFICIENT? | FUNCTIONALLY OBSOLETE? | SUFF. RATING |
|----|-------------------|----------------|-----|----------------|-----------|--------------|---------------|-------------------------|------------------------|--------------|
| 5  | FDR-783           | 00000044106200 | 3.8 | MOSQUITO CREEK | Slope Co. | 18.00        | 30.83         | -                       | -                      | 79.2         |





FH-06, Tobacco Garden-Charlson. This route starts at the junction with SR-1806 at Tobacco Garden and proceeds easterly 11.41 miles (18.36 km) over CR-02 and .98 miles (1.58 km) over CR-55 to SR-1806 two miles west of Charlson.

Evaluation: CR-02 is owned and operated by McKenzie County. It is functionally classified as a major collector serving the Little Missouri National Grassland. According to Forest Service data, 75% of the traffic is Forest related. The principal Forest resources served are recreation, gas, oil and grazing. The route also serves other local needs including schools, mail delivery, commercial supply and access to private property within the Grassland.

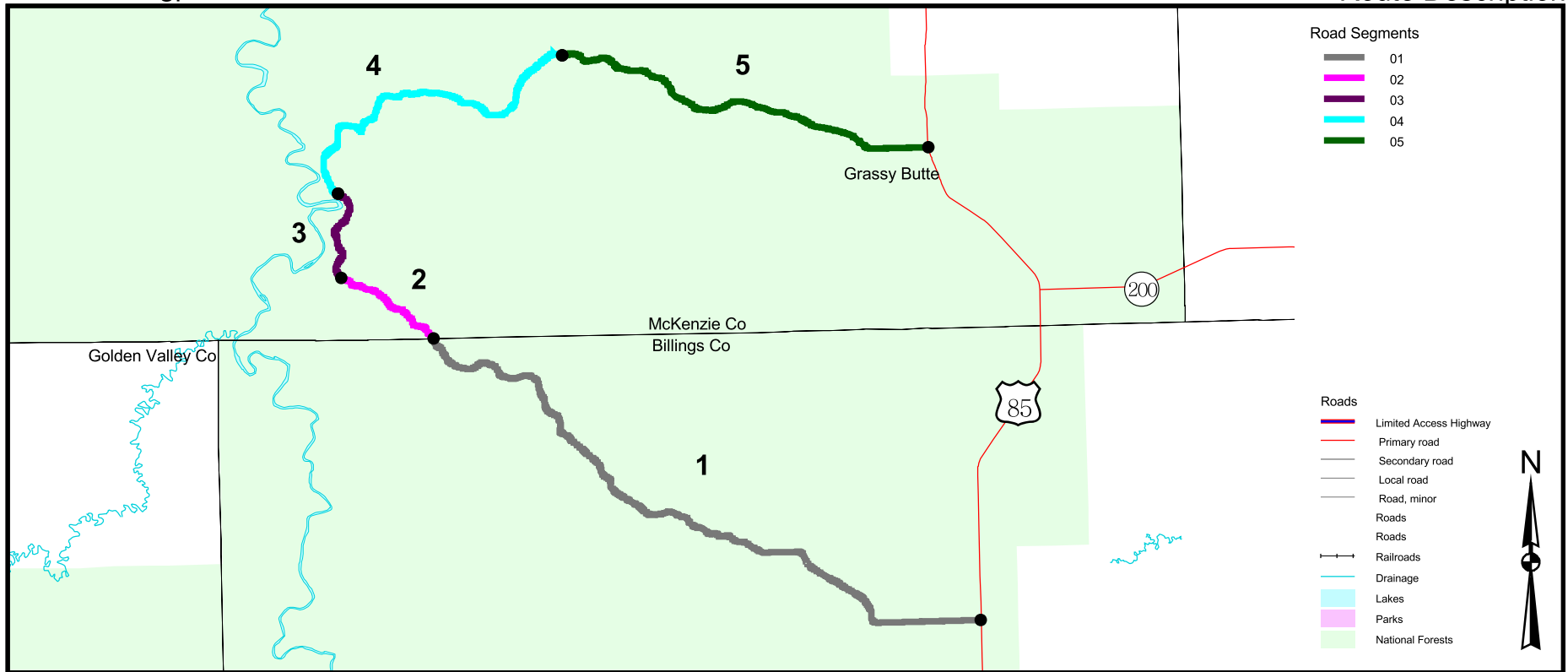


Map above shows the actual condition (paved sections only) which may not correspond to the average condition reported for each segment in the chart below. See Summary page i for more information.



TOTAL ROUTE LENGTH: 12.39 Miles

| FH | SEG NUM | STATE/LOCAL ROUTE | START MP | END MP | SEG LENGTH | ADT | WIDTHS  |       | SURFACE TYPE | IRI | REMAINING SURFACE LIFE (YEARS) | CONDITION RATING | CONDITION |
|----|---------|-------------------|----------|--------|------------|-----|---------|-------|--------------|-----|--------------------------------|------------------|-----------|
|    |         |                   |          |        |            |     | ROADWAY | PAVED |              |     |                                |                  |           |
| 6  | 1       | CR 2              | 0.00     | 11.41  | 11.41      | 90  | 30      | N/A   | Granular     | N/A | 0                              | N/A              | Fair      |
| 6  | 2       | CR 55             | 11.41    | 12.39  | 0.98       | 170 | 30      | N/A   | Granular     | N/A | 0                              | N/A              | Fair      |

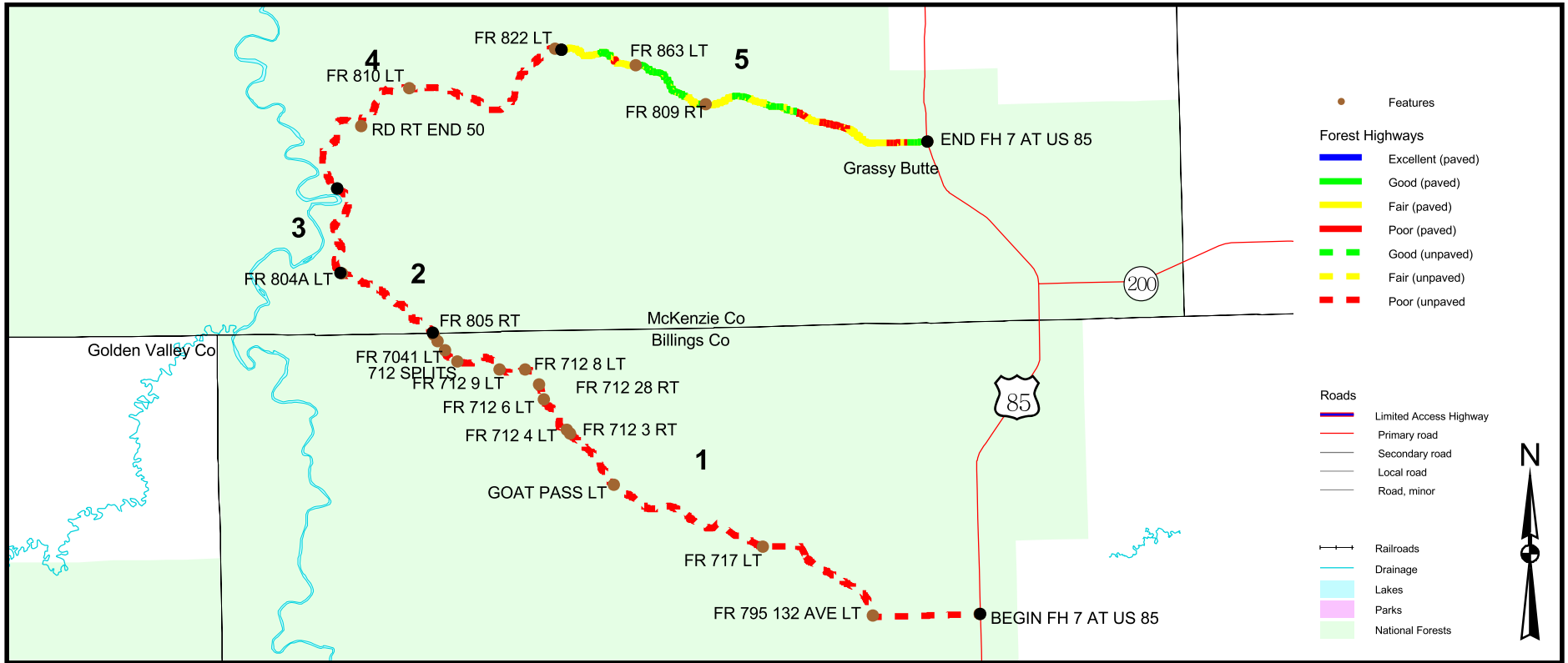


FH-07, Magpie Creek Road. This route starts at the junction with US-85, 1.5 miles north of Fairfield, and proceeds westerly and northerly 19.16 miles (30.83 km) over FR 712, northerly 16.24 miles (26.13 km) on FR's 804 and 810, and then looping back on McKenzie CR-50 easterly 11.07 miles (17.81 km) to US-85 near Grassy Butte.

Evaluation: The various FR Roads are owned and operated by Billings and McKenzie Counties. CR-50 is owned and operated by McKenzie County. The FR roads are functionally classified as local roads; CR-50 is a major collector, all serving the Little Missouri National Grassland. According to Forest Service data, 75% of the traffic is Forest related. The principal Forest resources served are gas, oil and grazing. The route also serves other local needs including schools, mail delivery, commercial supply and access to private property within the Grassland.

# FH 7 Magpie Creek Road

# Pavement Condition



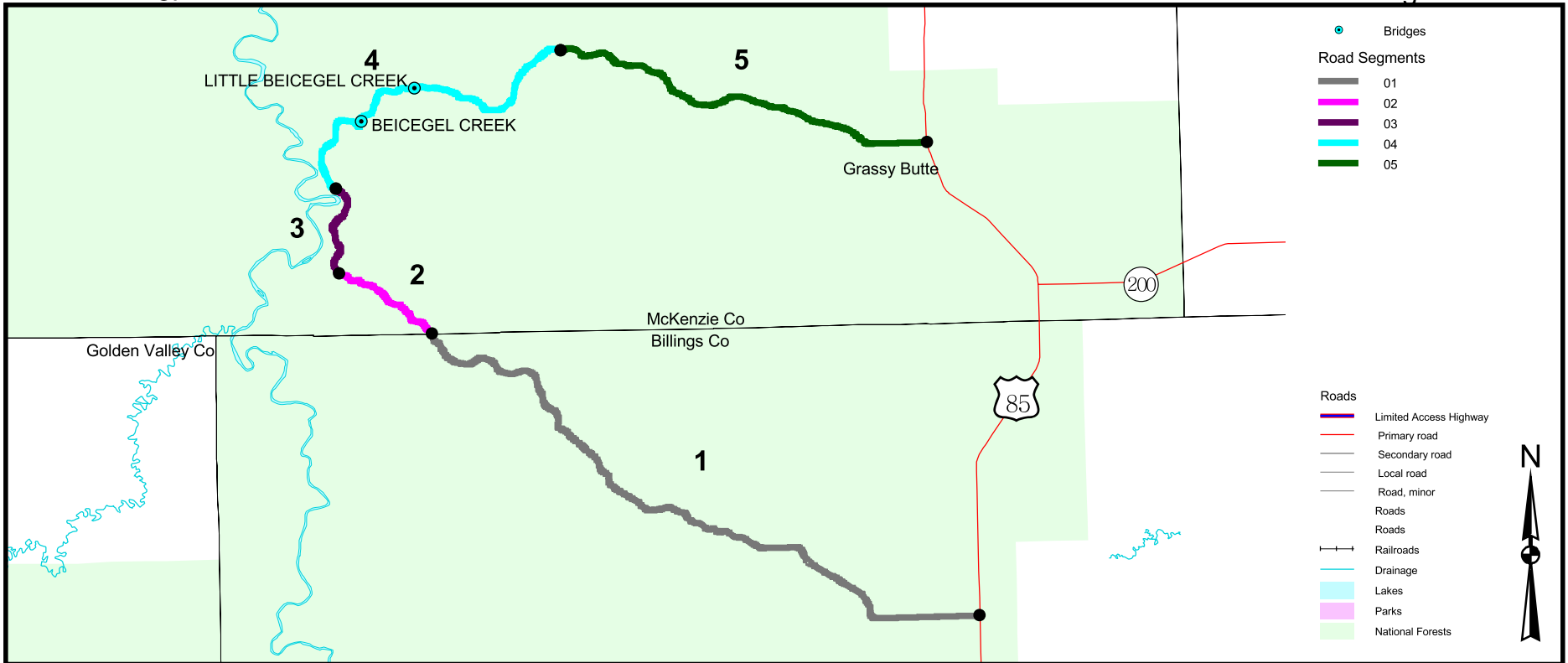
Map above shows the actual condition (paved sections only) which may not correspond to the average condition reported for each segment in the chart below. See Summary page i for more information.

TOTAL ROUTE LENGTH: 46.47 Miles

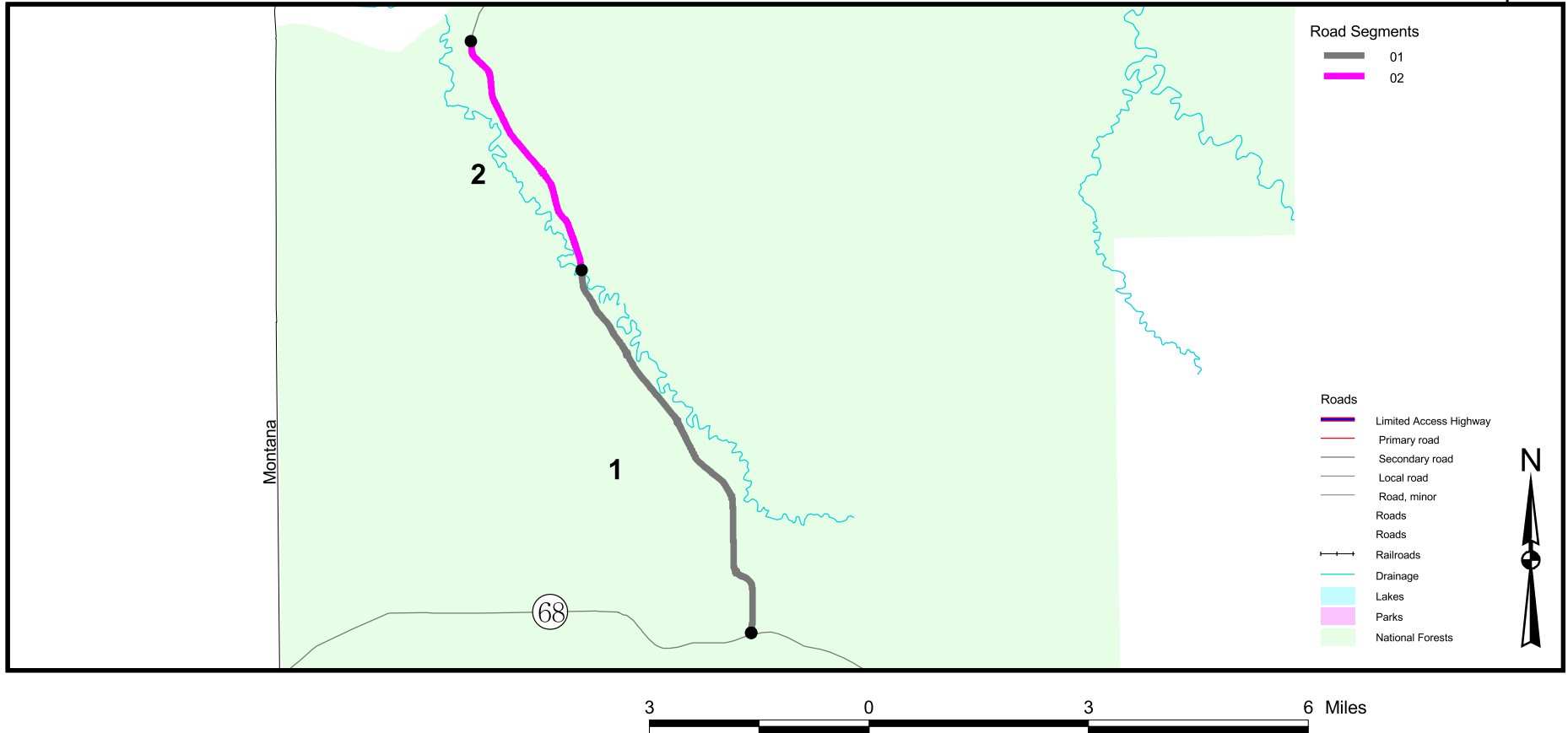
| FH | SEG NUM | STATE/LOCAL ROUTE | START MP | END MP | SEG LENGTH | ADT | WIDTHS  |       | SURFACE TYPE | IRI | REMAINING SURFACE LIFE (YEARS) | CONDITION RATING | CONDITION |
|----|---------|-------------------|----------|--------|------------|-----|---------|-------|--------------|-----|--------------------------------|------------------|-----------|
|    |         |                   |          |        |            |     | ROADWAY | PAVED |              |     |                                |                  |           |
| 7  | 1       | FR 712            | 0.00     | 19.16  | 19.16      | 150 | 30      | N/A   | Granular     | N/A | 0                              | N/A              | Poor      |
| 7  | 2       | FR 804            | 19.16    | 22.46  | 3.30       | 150 | 30      | N/A   | Granular     | N/A | 0                              | N/A              | Poor      |
| 7  | 3       | FR 810            | 22.46    | 25.26  | 2.80       | 150 | 30      | N/A   | Granular     | N/A | 0                              | N/A              | Poor      |
| 7  | 4       | FR 810            | 25.26    | 35.40  | 10.14      | 150 | 30      | N/A   | Granular     | N/A | 0                              | N/A              | Poor      |
| 7  | 5       | CR 50             | 35.40    | 46.47  | 11.07      | 250 | 30      | 24    | Flexible     | 110 | 7                              | 64               | Fair      |

FH 7 Magpie Creek Road

Bridge Condition



| FH | STATE/LOCAL ROUTE | NBIS NUMBER     | MP   | FACILITY              | OWNER       | WIDTH (FEET) | LENGTH (FEET) | STRUCTURALLY DEFICIENT? | FUNCTIONALLY OBSOLETE? | SUFF. RATING |
|----|-------------------|-----------------|------|-----------------------|-------------|--------------|---------------|-------------------------|------------------------|--------------|
| 7  | CR-2750           | 000000027122480 | 28.0 | BEICEGEL CREEK        | McKenzie Co | 0.00         | 20.99         | -                       | -                      | 94.8         |
| 7  | CR-2750           | 000000027123510 | 30.0 | LITTLE BEICEGEL CREEK | McKenzie Co | 28.54        | 94.14         | -                       | -                      | 91.9         |

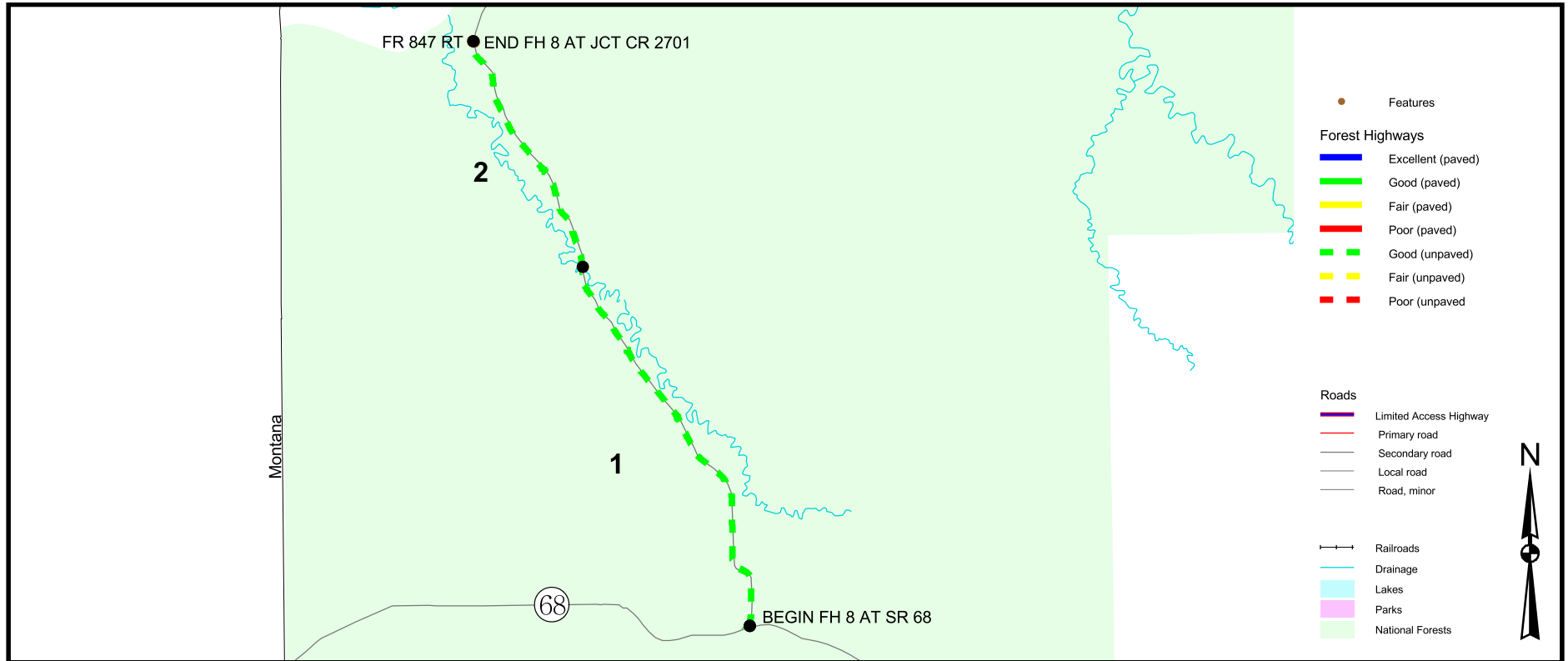


FH-08, Horse Creek Road. This route starts at the junction with SR-68, 6.9 miles east of the Montana State Line, and proceeds northwesterly 9.34 miles (15.03 km) over CR-03 to the junction with CR-01.

Evaluation: CR-03 is owned and operated by McKensie County. It is functionally classified as a major collector serving the Little Missouri National Grassland. According to Forest Service data, 50% of the traffic is Forest related. The principal Forest resources served are oil and grazing. The route also serves other local needs including schools, mail delivery, commercial supply and access to private property within the Grassland.

# FH 8 Horse Creek Road

# Pavement Condition

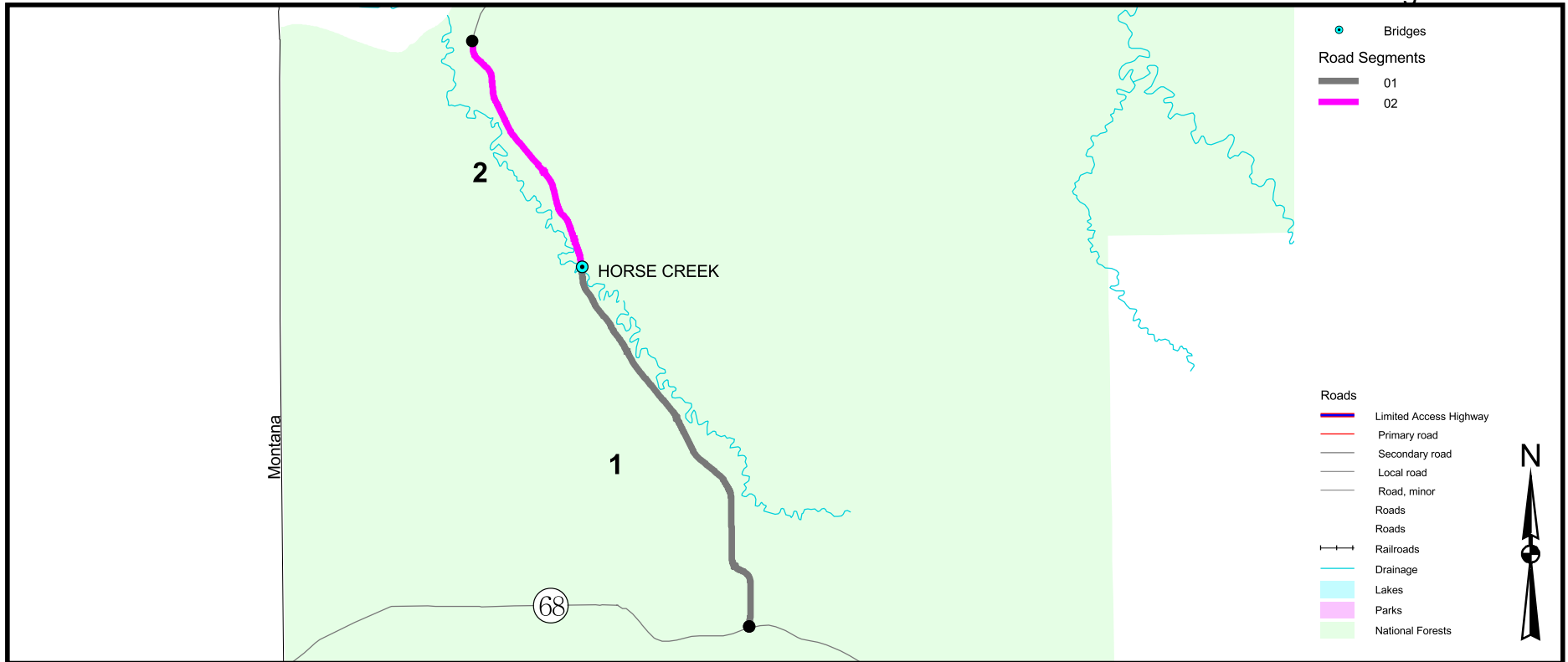


Map above shows the actual condition (paved sections only) which may not correspond to the average condition reported for each segment in the chart below. See Summary page i for more information.



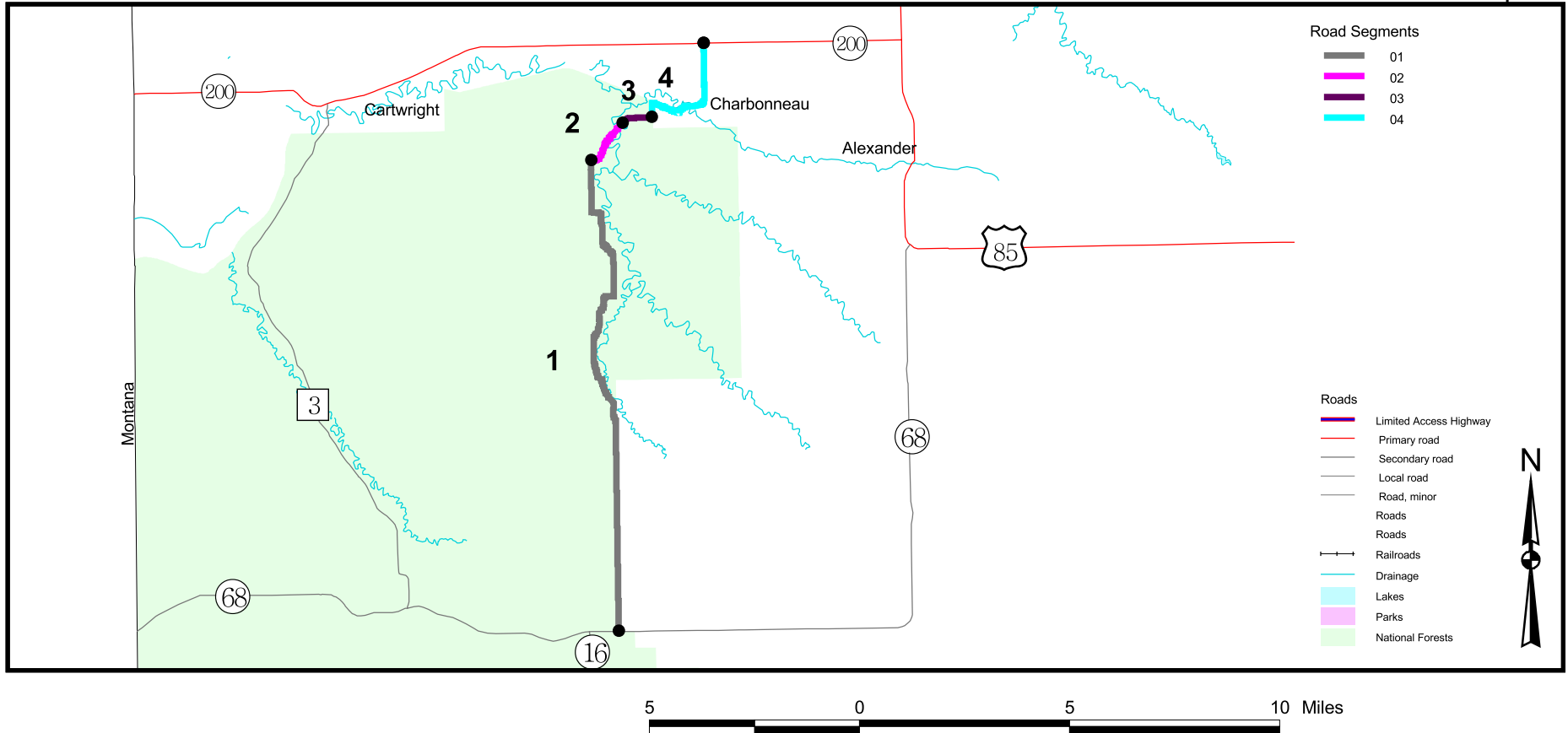
TOTAL ROUTE LENGTH: 9.34 Miles

| FH | SEG NUM | STATE/LOCAL ROUTE | START MP | END MP | SEG LENGTH | ADT | WIDTHS  |       | SURFACE TYPE | IRI | REMAINING SURFACE LIFE (YEARS) | CONDITION RATING | CONDITION |
|----|---------|-------------------|----------|--------|------------|-----|---------|-------|--------------|-----|--------------------------------|------------------|-----------|
|    |         |                   |          |        |            |     | ROADWAY | PAVED |              |     |                                |                  |           |
| 8  | 1       | CR 3              | 0.00     | 5.77   | 5.77       | 50  | 30      | N/A   | Granular     | N/A | 0                              | N/A              | Good      |
| 8  | 2       | CR 3              | 5.77     | 9.34   | 3.57       | 50  | 30      | N/A   | Granular     | N/A | 0                              | N/A              | Good      |



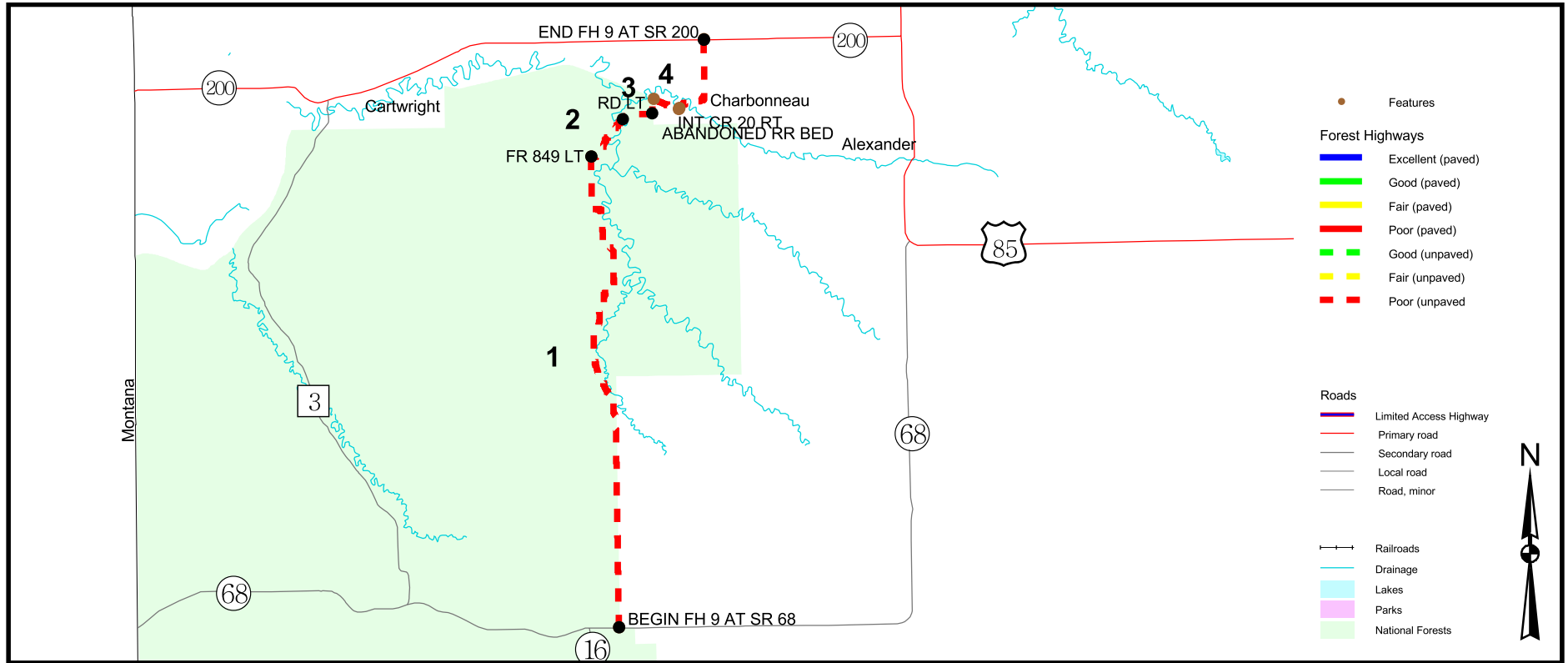
| FH | STATE/LOCAL ROUTE | NBIS NUMBER     | MP  | FACILITY    | OWNER       | WIDTH (FEET) | LENGTH (FEET) | STRUCTURALLY DEFICIENT? | FUNCTIONALLY OBSOLETE? | SUFF. RATING |
|----|-------------------|-----------------|-----|-------------|-------------|--------------|---------------|-------------------------|------------------------|--------------|
| 8  | CR-2703           | 000000027103240 | 9.3 | HORSE CREEK | McKenzie Co | 29.85        | 60.02         | -                       | -                      | 97.8         |





FH-09, Sather Lake-Charbonneau. This route starts at the junction with SR-68, approximately 3 miles west of CR-15, and proceeds northerly 17.0 miles (27.4 km) over CR-13 to the junction with SR-200 north of Charbonneau.

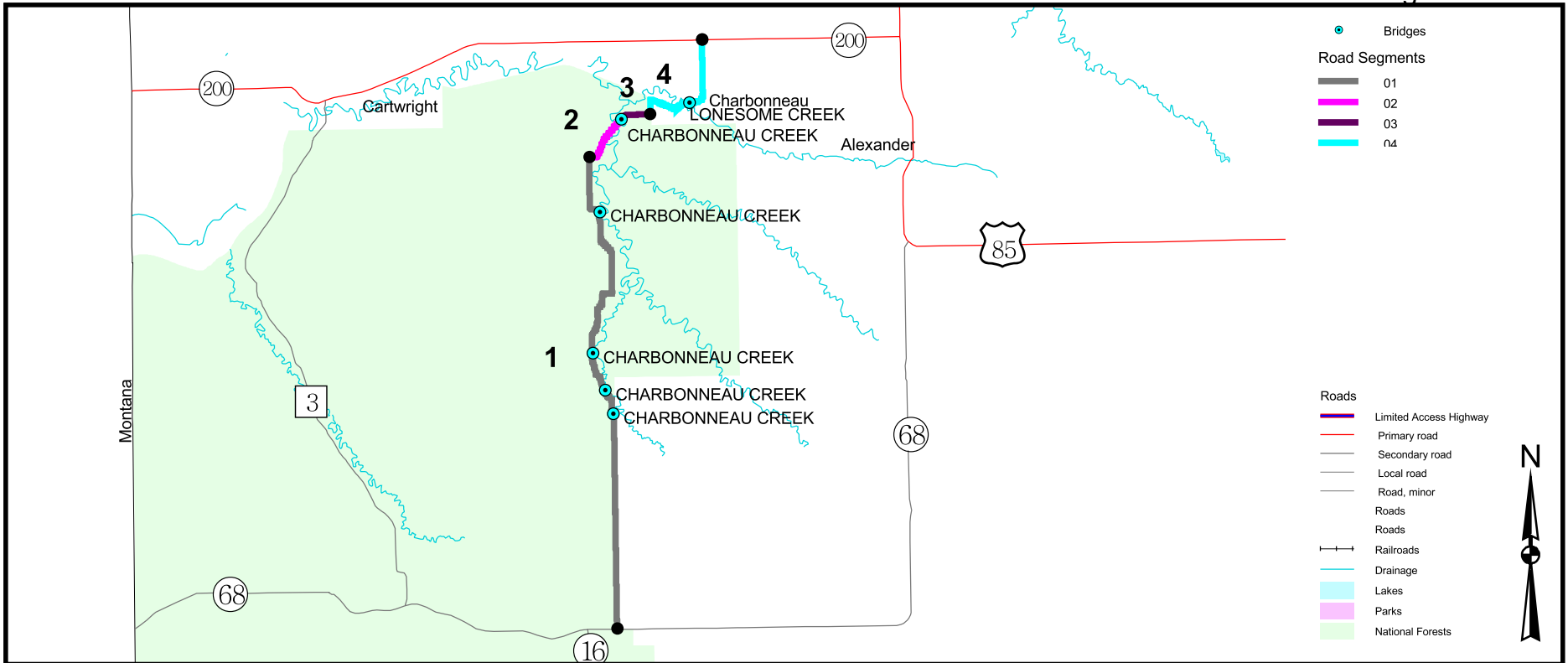
Evaluation: CR-13 is owned and operated by McKenzie County. It is functionally classified as a local road serving the Little Missouri National Grassland. The principal Forest resources served are oil and grazing. The route also serves other local needs including schools, mail delivery, commercial supply and access to private property within the Grassland.



Map above shows the actual condition (paved sections only) which may not correspond to the average condition reported for each segment in the chart below. See Summary page i for more information.

TOTAL ROUTE LENGTH: 17 Miles

| FH | SEG NUM | STATE/LOCAL ROUTE | START MP | END MP | SEG LENGTH | ADT | WIDTHS  |       | SURFACE TYPE | IRI | REMAINING SURFACE LIFE (YEARS) | CONDITION RATING | CONDITION |
|----|---------|-------------------|----------|--------|------------|-----|---------|-------|--------------|-----|--------------------------------|------------------|-----------|
|    |         |                   |          |        |            |     | ROADWAY | PAVED |              |     |                                |                  |           |
| 9  | 1       | CR 13             | 0.00     | 11.92  | 11.92      | 40  | 24      | N/A   | Granular     | N/A | 0                              | N/A              | Poor      |
| 9  | 2       | CR 13             | 11.92    | 13.15  | 1.23       | 40  | 24      | N/A   | Granular     | N/A | 0                              | N/A              | Poor      |
| 9  | 3       | CR 13             | 13.15    | 13.89  | 0.74       | 40  | 24      | N/A   | Granular     | N/A | 0                              | N/A              | Poor      |
| 9  | 4       | CR 13             | 13.89    | 17.00  | 3.11       | 40  | 24      | N/A   | Granular     | N/A | 0                              | N/A              | Poor      |



| FH | STATE/LOCAL ROUTE | NBIS NUMBER     | MP   | FACILITY          | OWNER       | WIDTH (FEET) | LENGTH (FEET) | STRUCTURALLY DEFICIENT? | FUNCTIONALLY OBSOLETE? | SUFF. RATING |
|----|-------------------|-----------------|------|-------------------|-------------|--------------|---------------|-------------------------|------------------------|--------------|
| 9  | CR-2713           | 000000027112271 | 5.1  | CHARBONNEAU CREEK | McKenzie Co | 20.34        | 24.93         | -                       | -                      | 83.7         |
| 9  | CR-2713           | 000000027112270 | 5.7  | CHARBONNEAU CREEK | McKenzie Co | 18.70        | 23.94         | -                       | -                      | 83.0         |
| 9  | CR-2713           | 000000027112260 | 6.7  | CHARBONNEAU CREEK | McKenzie Co | 18.70        | 23.94         | -                       | -                      | 93.0         |
| 9  | CR-2713           | 000000027112230 | 10.4 | CHARBONNEAU CREEK | McKenzie Co | 23.62        | 26.90         | X                       | -                      | 45.2         |
| 9  | CR-2713           | 000000027113201 | 13.1 | CHARBONNEAU CREEK | McKenzie Co | 28.54        | 91.84         | -                       | -                      | 98.0         |
| 9  | CR-2713           | 000000027114200 | 15.3 | LONESOME CREEK    | McKenzie Co | 27.55        | 60.02         | -                       | -                      | 100.0        |

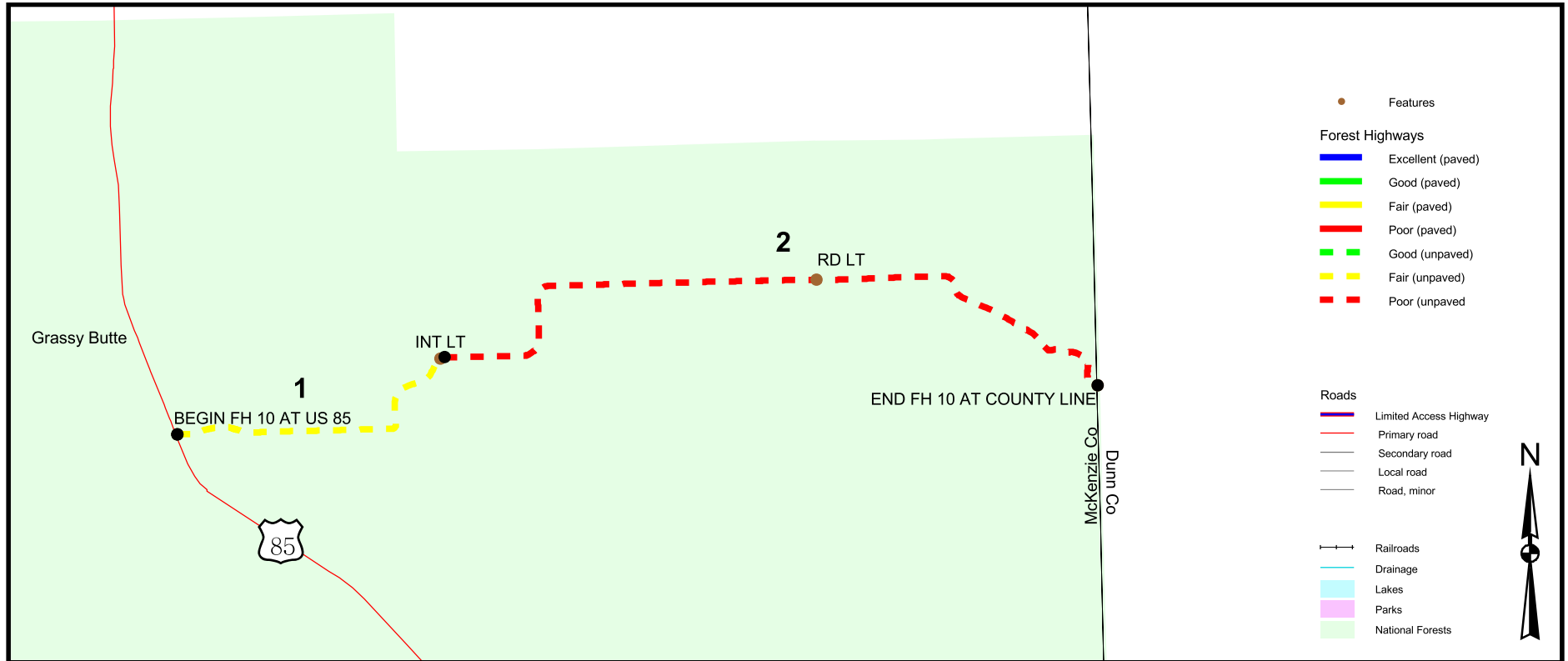


FH-10, Grassy Butte, East. This route starts at the junction with US-85 in Grassy Butte and proceeds easterly 7.79 miles (12.53 km) over FDR-810 to the Dunn County Line (forest boundary).

Evaluation: FDR-810 is owned and operated by McKenzie County. It is functionally classified as a local road serving the Little Missouri National Grassland. The principal Forest resources served are oil and grazing. The route also serves other local needs including schools, mail delivery, commercial supply and access to private property within the Grasslands.

# FH 10 Grassy Butte, East

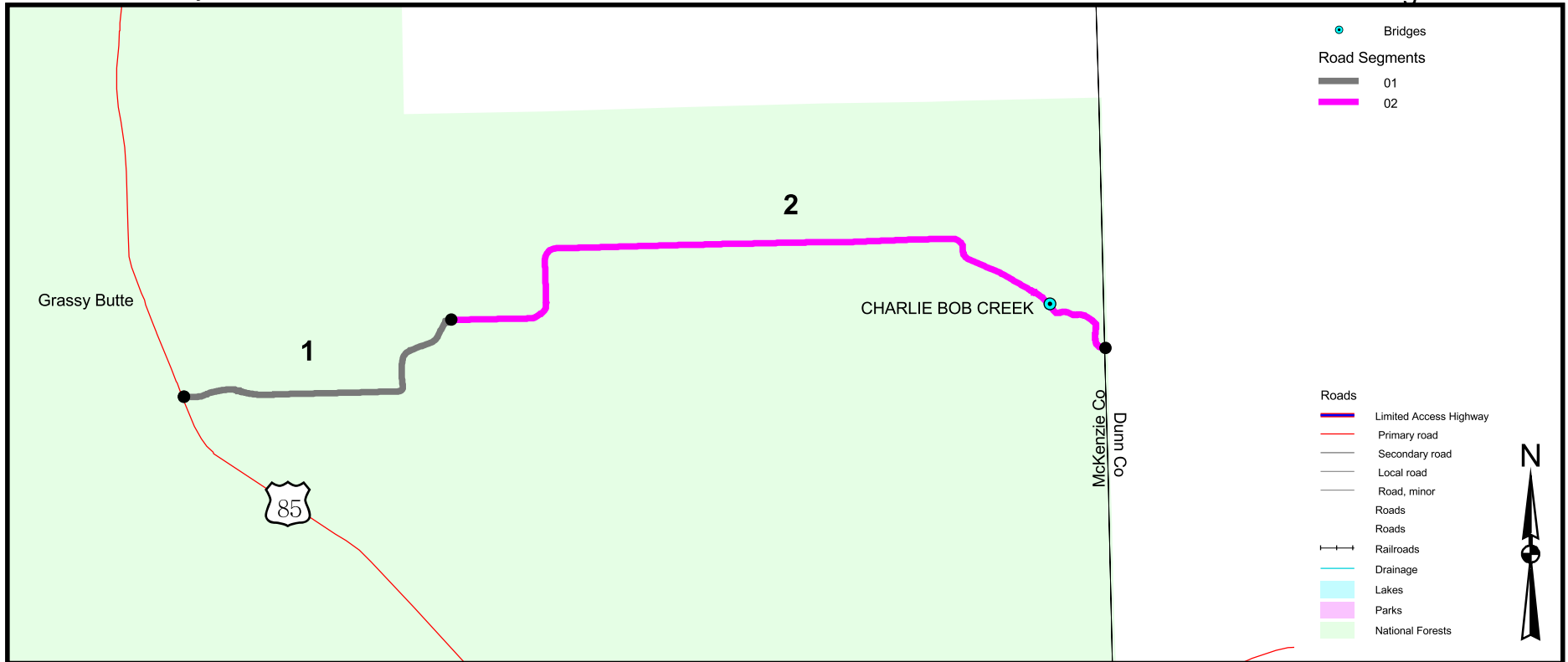
# Pavement Condition



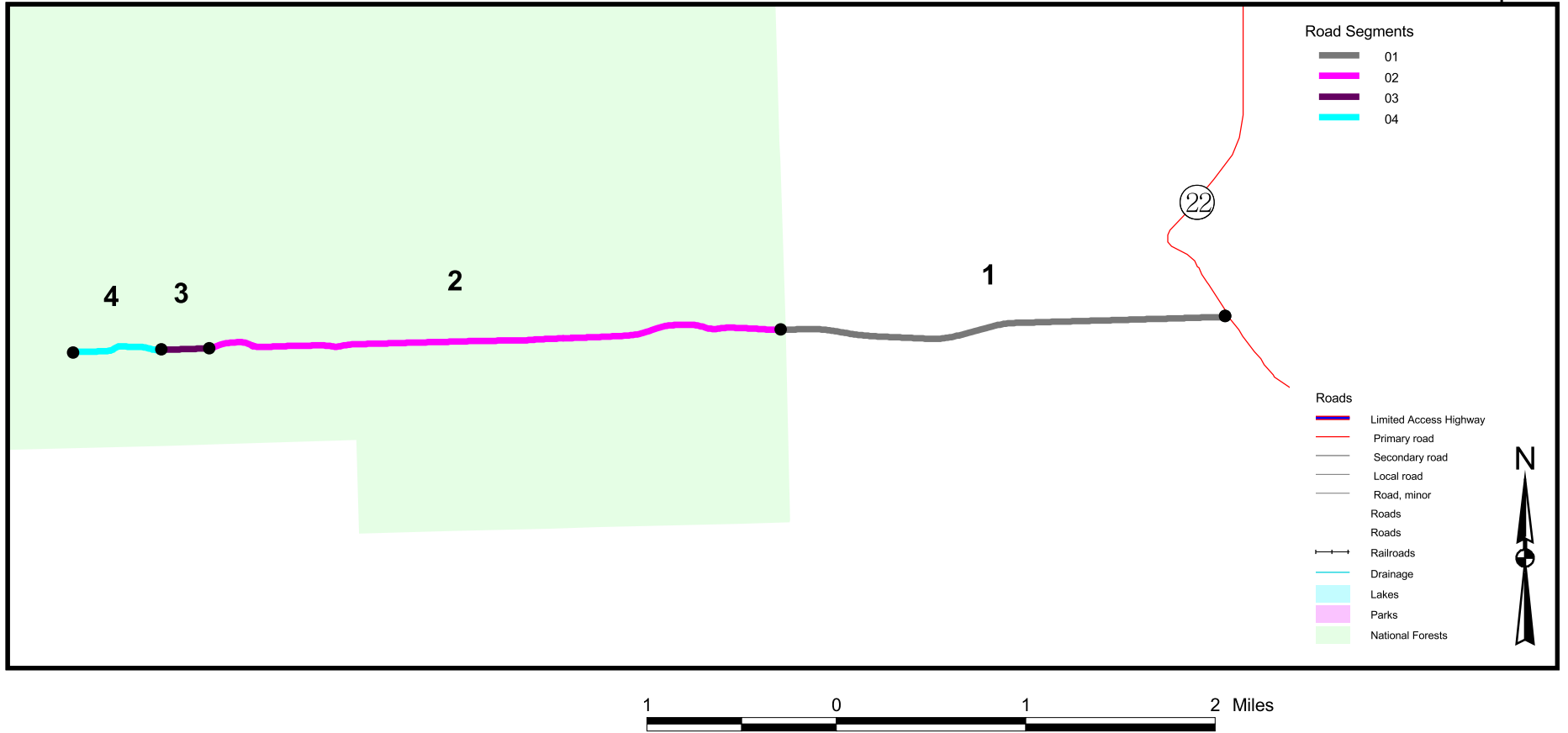
Map above shows the actual condition (paved sections only) which may not correspond to the average condition reported for each segment in the chart below. See Summary page i for more information.

TOTAL ROUTE LENGTH: 7.79 Miles

| FH | SEG NUM | STATE/LOCAL ROUTE | START MP | END MP | SEG LENGTH | ADT | WIDTHS  |       | SURFACE TYPE | IRI | REMAINING SURFACE LIFE (YEARS) | CONDITION RATING | CONDITION |
|----|---------|-------------------|----------|--------|------------|-----|---------|-------|--------------|-----|--------------------------------|------------------|-----------|
|    |         |                   |          |        |            |     | ROADWAY | PAVED |              |     |                                |                  |           |
| 10 | 1       | FDR 810           | 0.00     | 2.28   | 2.28       | N/A | 24      | N/A   | Granular     | N/A | 0                              | N/A              | Fair      |
| 10 | 2       | FDR 810           | 2.28     | 7.79   | 5.51       | N/A | 24      | N/A   | Granular     | N/A | 0                              | N/A              | Poor      |

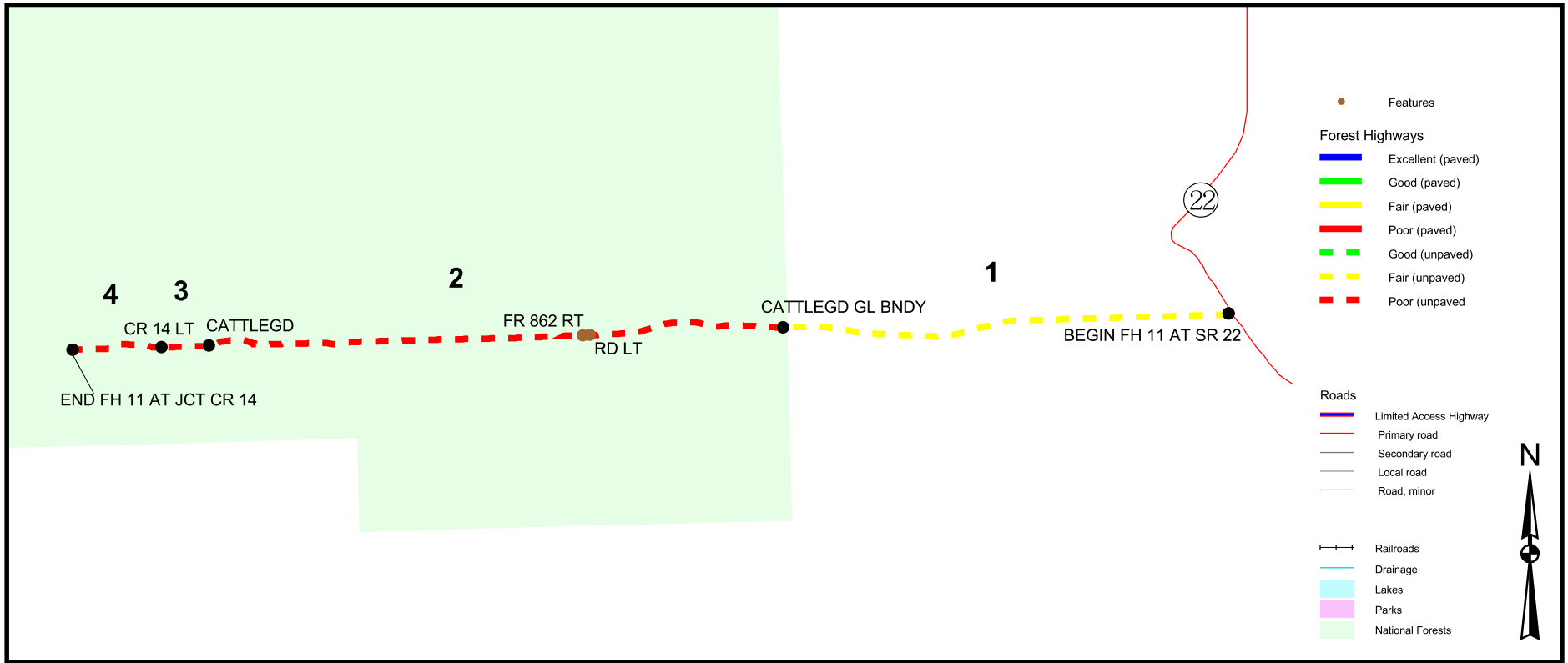


| FH | STATE/LOCAL ROUTE | NBIS NUMBER     | MP  | FACILITY          | OWNER       | WIDTH (FEET) | LENGTH (FEET) | STRUCTURALLY DEFICIENT? | FUNCTIONALLY OBSOLETE? | SUFF. RATING |
|----|-------------------|-----------------|-----|-------------------|-------------|--------------|---------------|-------------------------|------------------------|--------------|
| 10 | FDR-810           | 000000027145520 | 7.2 | CHARLIE BOB CREEK | McKenzie Co | 27.88        | 42.97         | -                       | -                      | 97.0         |



FH-11, Blue Buttes. This route starts at the junction with SR-22, 3.5 miles north of Bear Den Creek, and proceeds westerly 6.13 miles (9.86 km) over Indian Reservation Road (IRR) 4 and a County Road to the intersection with CR-14, four miles north of SR-73.

Evaluation: IRR-4 is owned and operated by the Bureau of Indian Affairs. It is functionally classified as a local road serving the Fort Berthold Indian Reservation. The County Road is functionally classified as a local road serving the Little Missouri National Grassland. The principal Forest resources served are oil and gas. The route also provides access to private property within the Grasslands.



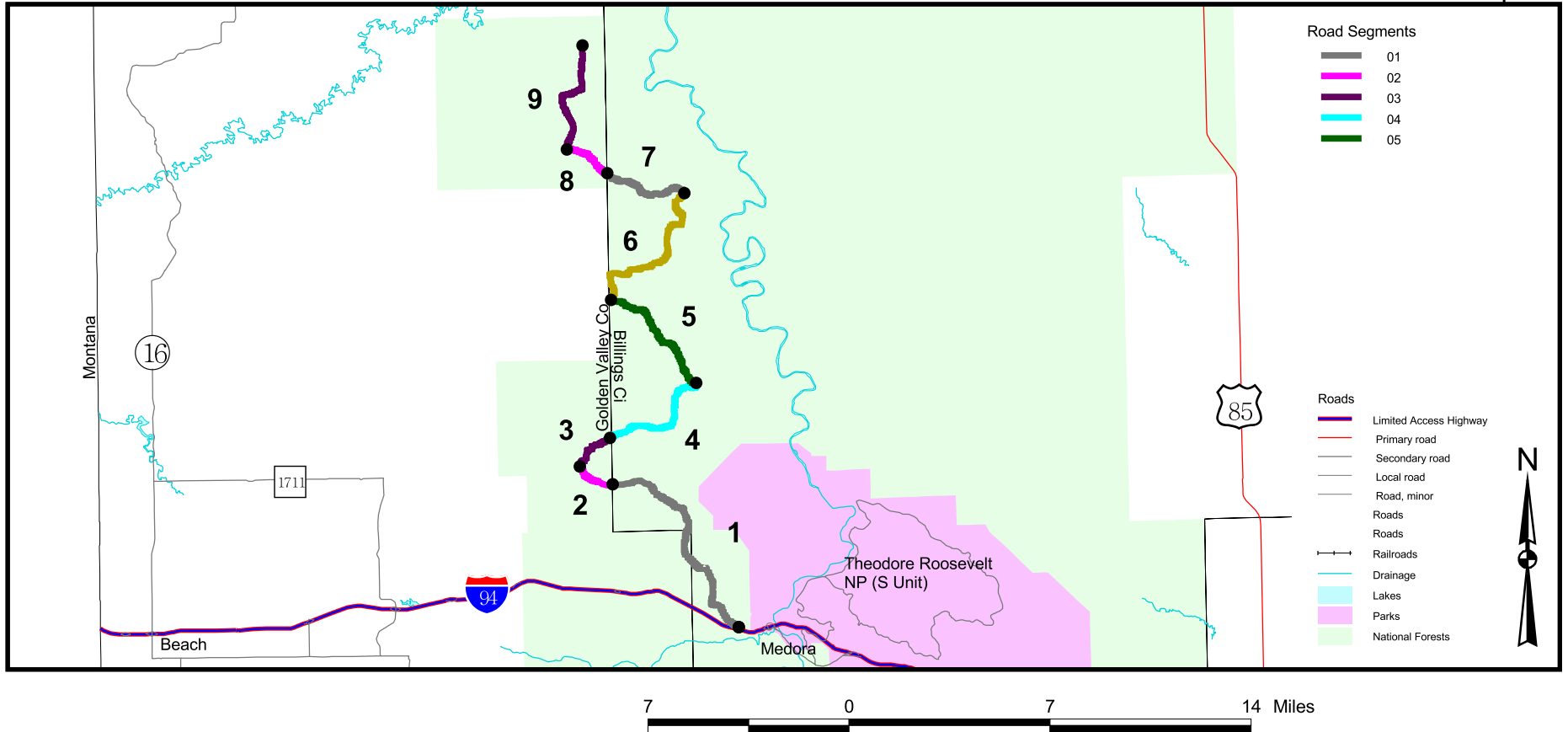
Map above shows the actual condition (paved sections only) which may not correspond to the average condition reported for each segment in the chart below. See Summary page i for more information.



TOTAL ROUTE LENGTH: 6.13 Miles

| FH | SEG NUM | STATE/LOCAL ROUTE | START MP | END MP | SEG LENGTH | ADT | WIDTHS  |       | SURFACE TYPE | IRI | REMAINING SURFACE LIFE (YEARS) | CONDITION RATING | CONDITION |
|----|---------|-------------------|----------|--------|------------|-----|---------|-------|--------------|-----|--------------------------------|------------------|-----------|
|    |         |                   |          |        |            |     | ROADWAY | PAVED |              |     |                                |                  |           |
| 11 | 1       | IRR 4             | 0.00     | 2.36   | 2.36       | N/A | 24      | N/A   | Granular     | N/A | 0                              | N/A              | Fair      |
| 11 | 2       | IRR 4             | 2.36     | 5.41   | 3.05       | N/A | 24      | N/A   | Granular     | N/A | 0                              | N/A              | Poor      |
| 11 | 3       | IRR 4             | 5.41     | 5.66   | 0.25       | N/A | 24      | N/A   | Granular     | N/A | 0                              | N/A              | Poor      |
| 11 | 4       | IRR 4             | 5.66     | 6.13   | 0.47       | N/A | 24      | N/A   | Granular     | N/A | 0                              | N/A              | Poor      |



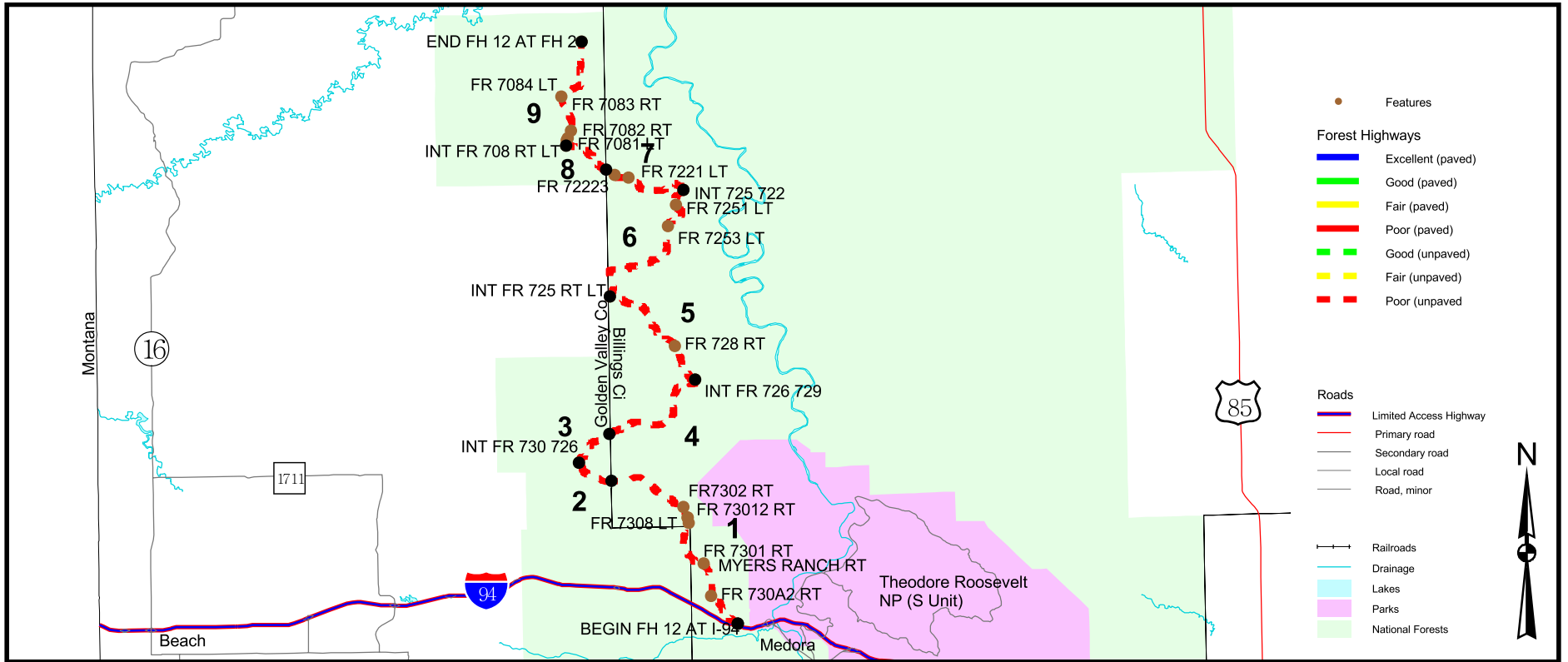


FH-12, West River Road. This route starts at the junction with I-94, 1.5 miles east of the Golden Valley County Line, and proceeds northerly 9.51 miles (15.3 km) on FDR-730, 5.95 miles (9.57 km) on FDR-726, 4.63 miles (7.45 km) on FDR-729, 6 miles (9.65 km) on FDR-725, 4.95 miles (7.96 km) on FDR-722, and 4.25 miles (6.84 km) on FDR-708, to the intersection with FH-02 near the Elkhorn Ranch site.

Evaluation: Each of the FDR routes are owned and operated by Billings or Golden Valley Counties. It is functionally classified as a local road serving the Little Missouri National Grassland. The principal Forest resources served are oil and grazing. The route also serves other local needs including schools, mail delivery, commercial supply and access to private property within the Grassland.

# FH 12 West River Road

# Pavement Condition



Map above shows the actual condition (paved sections only) which may not correspond to the average condition reported for each segment in the chart below. See Summary page i for more information.

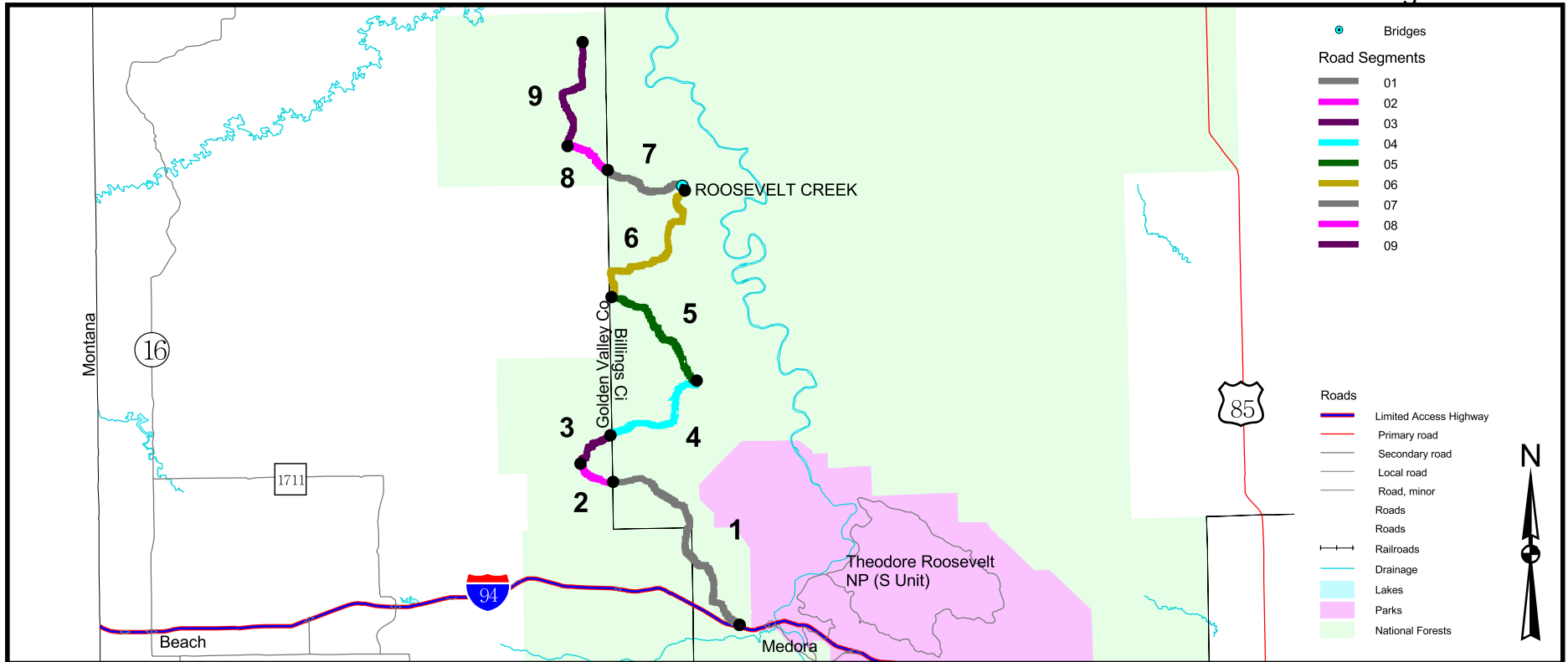


TOTAL ROUTE LENGTH: 35.29 Miles

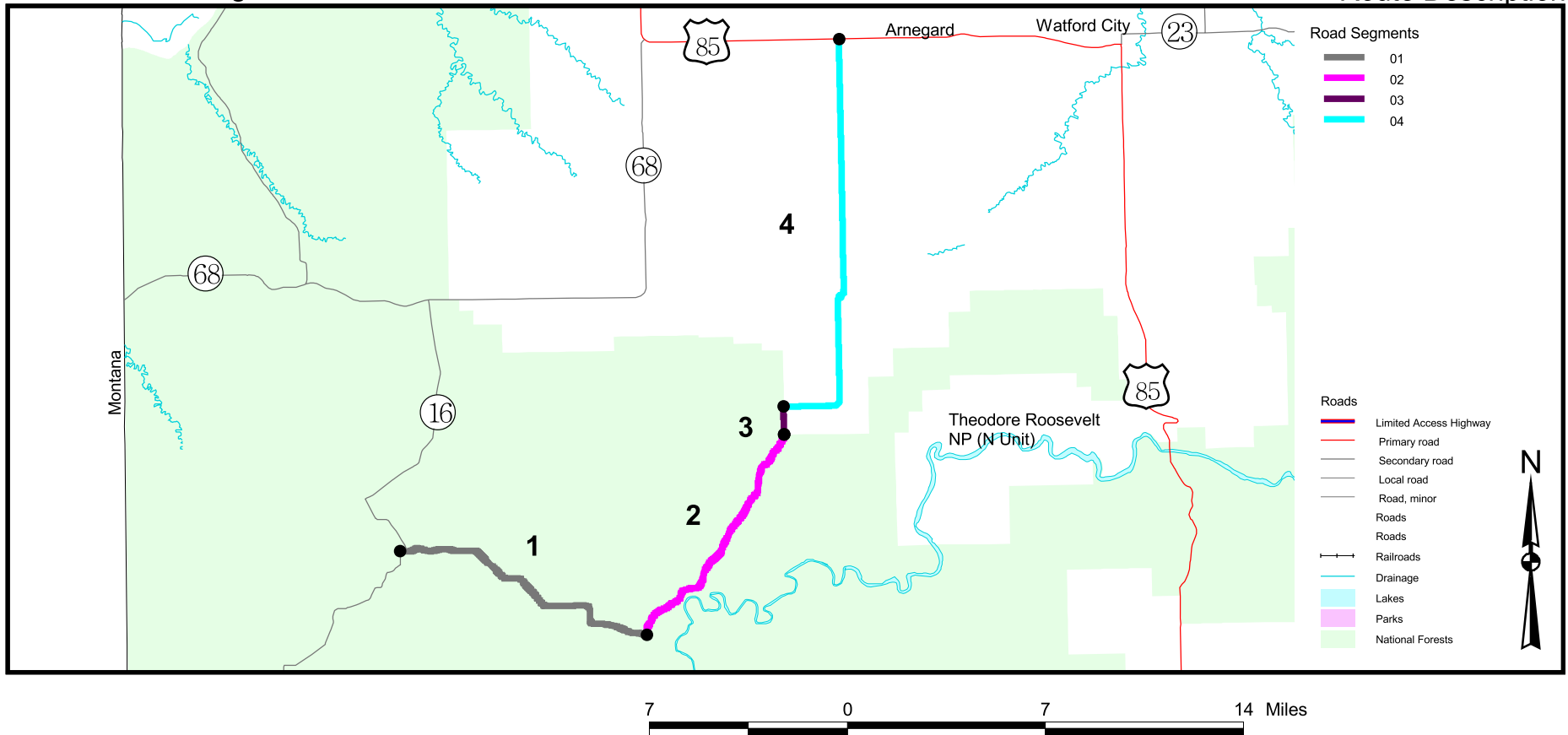
| FH | SEG NUM | STATE/LOCAL ROUTE | START MP | END MP | SEG LENGTH | ADT | WIDTHS  |       | SURFACE TYPE | IRI | REMAINING SURFACE LIFE (YEARS) | CONDITION RATING | CONDITION |
|----|---------|-------------------|----------|--------|------------|-----|---------|-------|--------------|-----|--------------------------------|------------------|-----------|
|    |         |                   |          |        |            |     | ROADWAY | PAVED |              |     |                                |                  |           |
| 12 | 1       | FDR 730           | 0.00     | 8.11   | 8.11       | 50  | 24      | N/A   | Granular     | N/A | 0                              | N/A              | Poor      |
| 12 | 2       | FDR 730           | 8.11     | 9.51   | 1.40       | 50  | 24      | N/A   | Granular     | N/A | 0                              | N/A              | Poor      |
| 12 | 3       | FDR 726           | 9.51     | 11.17  | 1.66       | 50  | 24      | N/A   | Granular     | N/A | 0                              | N/A              | Poor      |
| 12 | 4       | FDR 726           | 11.17    | 15.46  | 4.29       | 50  | 24      | N/A   | Granular     | N/A | 0                              | N/A              | Poor      |
| 12 | 5       | FDR 729           | 15.46    | 20.09  | 4.63       | 50  | 24      | N/A   | Granular     | N/A | 0                              | N/A              | Poor      |
| 12 | 6       | FDR 725           | 20.09    | 26.09  | 6.00       | 50  | 24      | N/A   | Granular     | N/A | 0                              | N/A              | Poor      |
| 12 | 7       | FDR 722           | 26.09    | 29.25  | 3.16       | 50  | 24      | N/A   | Granular     | N/A | 0                              | N/A              | Poor      |
| 12 | 8       | FDR 722           | 29.25    | 31.04  | 1.79       | 50  | 24      | N/A   | Granular     | N/A | 0                              | N/A              | Poor      |
| 12 | 9       | FDR 708           | 31.04    | 35.29  | 4.25       | 50  | 24      | N/A   | Granular     | N/A | 0                              | N/A              | Poor      |

FH 12 West River Road

Bridge Condition



| FH | STATE/LOCAL ROUTE | NBIS NUMBER     | MP   | FACILITY        | OWNER        | WIDTH (FEET) | LENGTH (FEET) | STRUCTURALLY DEFICIENT? | FUNCTIONALLY OBSOLETE? | SUFF. RATING |
|----|-------------------|-----------------|------|-----------------|--------------|--------------|---------------|-------------------------|------------------------|--------------|
| 12 | FDR-725           | 000000004103130 | 23.0 | ROOSEVELT CREEK | Billings Co. | 13.45        | 47.89         | -                       | -                      | 80.0         |

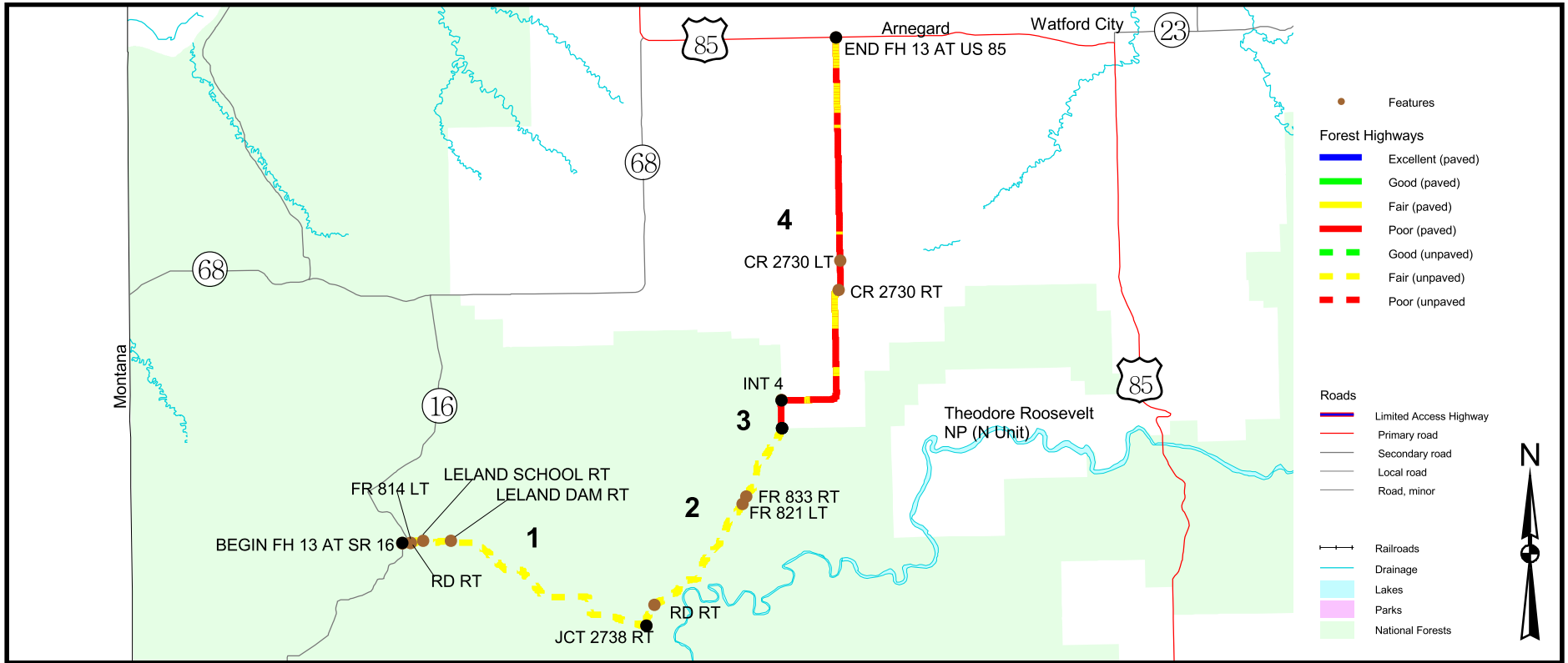


FH-13, Red Wing Road. This route starts at the junction with SR-16 (FH-01), west of the Leland School and proceeds easterly on CR-38 19.29 miles (31.04 km) to the intersection with CR-27 and then northerly on CR-27 15.94 miles (25.65 km) to the intersection with US-85 west of Arnegard.

Evaluation: CR-38 and CR-27 are owned and operated by McKenzie County. The route is functionally classified as a major collector serving the Little Missouri National Grassland. The principal Forest resources served are oil and grazing. The route also serves other local needs including schools, mail delivery, commercial supply and access to private property within the Grassland.

# FH 13 Red Wing Road

# Pavement Condition

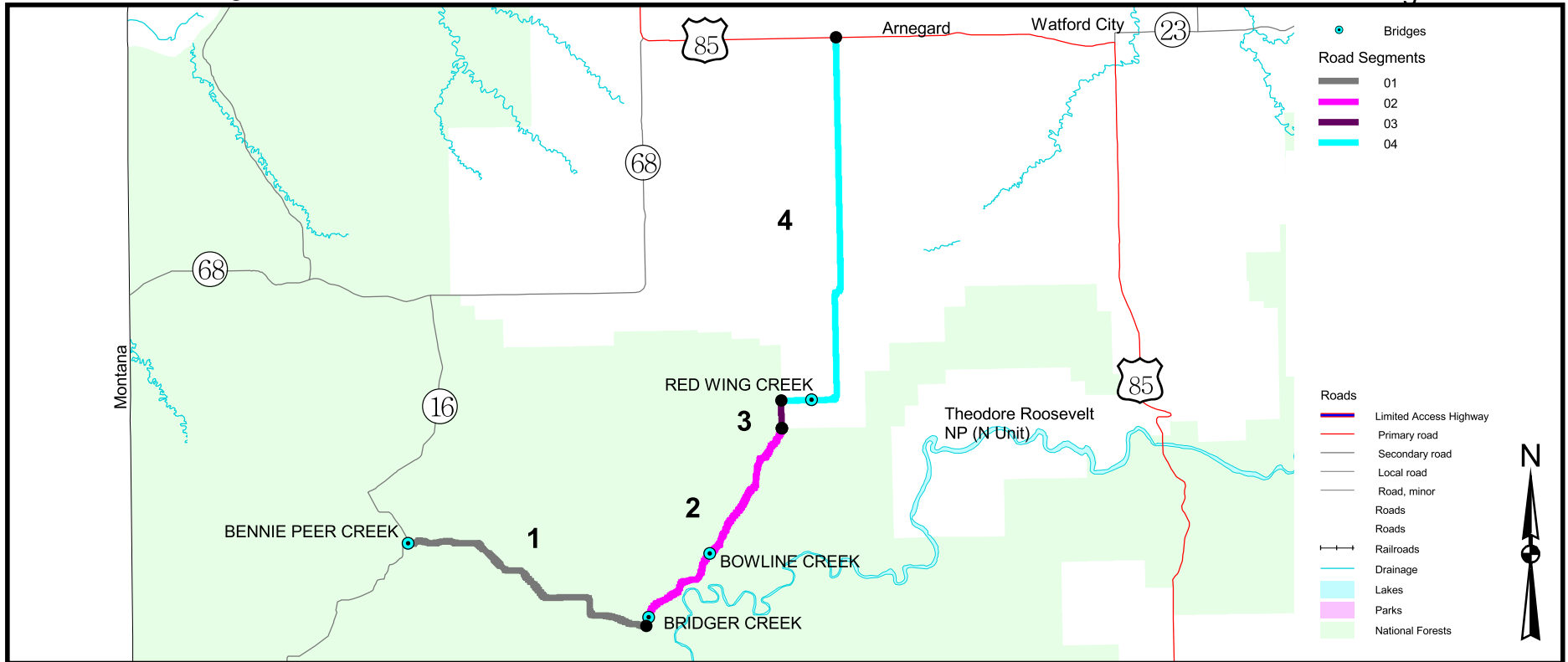


Map above shows the actual condition (paved sections only) which may not correspond to the average condition reported for each segment in the chart below. See Summary page i for more information.



TOTAL ROUTE LENGTH: 35.23 Miles

| FH | SEG NUM | STATE/LOCAL ROUTE | START MP | END MP | SEG LENGTH | ADT | WIDTHS  |       | SURFACE TYPE | IRI | REMAINING SURFACE LIFE (YEARS) | CONDITION RATING | CONDITION |
|----|---------|-------------------|----------|--------|------------|-----|---------|-------|--------------|-----|--------------------------------|------------------|-----------|
|    |         |                   |          |        |            |     | ROADWAY | PAVED |              |     |                                |                  |           |
| 13 | 1       | CR 38             | 0.00     | 10.17  | 10.17      | 140 | 24      | N/A   | Granular     | N/A | 0                              | N/A              | Fair      |
| 13 | 2       | CR 38             | 10.17    | 19.29  | 9.12       | 120 | 24      | N/A   | Granular     | N/A | 0                              | N/A              | Fair      |
| 13 | 3       | CR 27             | 19.29    | 20.29  | 1.00       | 150 | 24      | 20    | Flexible     | 173 | 2                              | 49               | Poor      |
| 13 | 4       | CR 27             | 20.29    | 35.23  | 14.94      | 140 | 24      | 20    | Flexible     | 149 | 3                              | 54               | Poor      |



| FH | STATE/LOCAL ROUTE | NBIS NUMBER     | MP   | FACILITY          | OWNER       | WIDTH (FEET) | LENGTH (FEET) | STRUCTURALLY DEFICIENT? | FUNCTIONALLY OBSOLETE? | SUFF. RATING |
|----|-------------------|-----------------|------|-------------------|-------------|--------------|---------------|-------------------------|------------------------|--------------|
| 13 | CR-2738           | 000000027111410 | 0.2  | BENNIE PEER CREEK | McKenzie Co | 27.88        | 78.06         | -                       | -                      | 97.9         |
| 13 | CR-2738           | 000000027119441 | 10.5 | BRIDGER CREEK     | McKenzie Co | 0.00         | 20.99         | -                       | -                      | 99.8         |
| 13 | CR-2738           | 000000027122420 | 14.0 | BOWLINE CREEK     | McKenzie Co | 27.88        | 49.86         | -                       | -                      | 96.5         |
| 13 | CR-2727           | 000000027126360 | 21.3 | RED WING CREEK    | McKenzie Co | 29.85        | 48.87         | -                       | -                      | 99.6         |