

# Appendix B

## Existing Roadway Characteristics

### COLORADO HIGHWAY 71

*(Limon north to Colorado/Nebraska state line)*

### TRUCK FREIGHT DIVERSION FEASIBILITY STUDY

#### PREPARED FOR:



*CDOT Region 4  
10601 W. 10<sup>th</sup> Street  
Greeley, CO 80634*

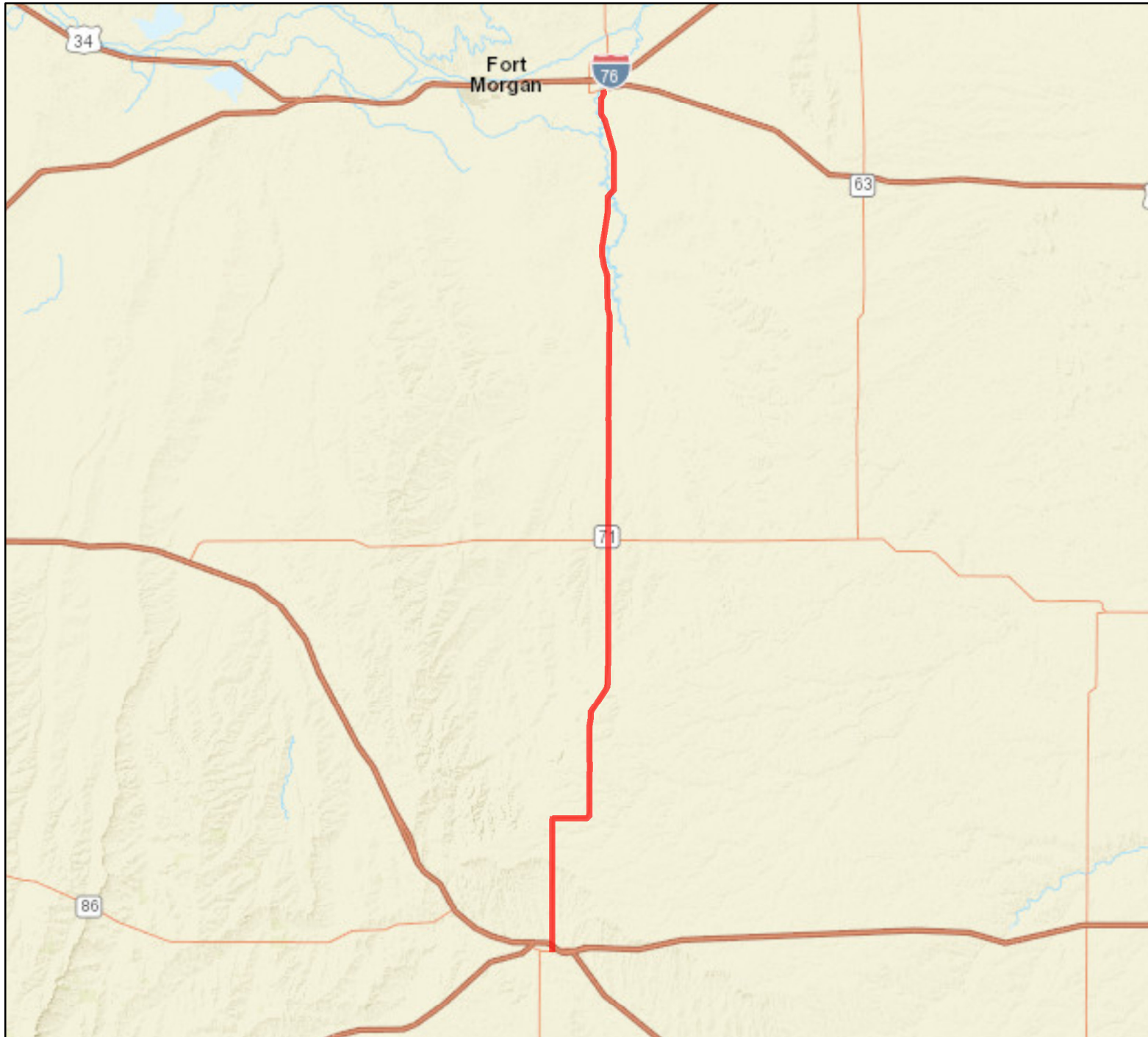
#### PREPARED BY:

*WSP USA  
1600 Broadway, Suite 1100  
Denver, CO 80202*





# Route 071D From 101 to 175



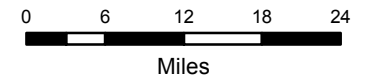
## Legend

— Route

Created:

Date: 8/29/2017





Time: 12:04:47 PM

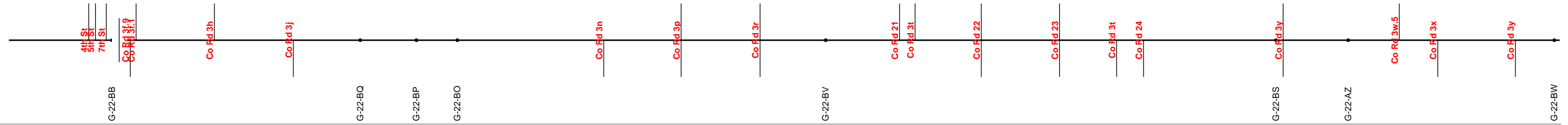


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101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121

Route 071D  
From 101 To 121

-  Ramps
-  Overpass
-  Underpass
-  Structures



**CLASSIFICATION**

Access Control	NR-B: Non Rural Arterial
Functional Class	3 Principal Arterial - Other
Highway Designation	SH
Terrain	Plains

**GEOMETRICS**

Primary Outside Shoulder	2 Bituminous	1 No Shoulder	2 Bituminous	1 No Shoulder
Primary Outside Shoulder Safety	0 None	0 None	0 None	0 None
Feature Primary Outside Shoulder Width	4 2 6	0	2	0
Primary Thru Lane Width	12	11	12	12
Secondary Through Lane Width	12	11	12	12

**SAFETY**

Primary Speed Limit	45	65
Secondary Speed Limit	45 55	65
Truck Restriction	1 National Truck Route	

**TRAFFIC**

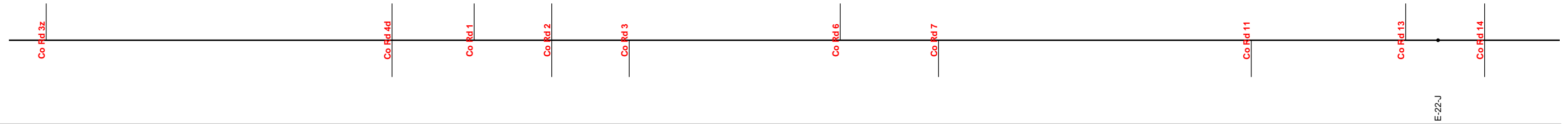
AADT	1400	1000
DHV	11.5	
Off Peak Truck Percentage	18.5	21.2
Peak Truck Percentage	2.3	1.9
Route Capacity	3050	2850
V/C Ratio	0.06	0.05
V/C Ratio 20	0.07	
VMT	3304	28380

It may appear that information is missing from the straight line diagram. If so, reduce the number of miles/page and re-submit the request.

121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141

Route 071D  
From 121 To 141

- ◊ Ramps
- Overpass
- Underpass
- Structures



**CLASSIFICATION**

Access Control	NR-B: Non Rural Arterial	R-A: Regional Highway
Functional Class	3 Principal Arterial - Other	
Highway Designation	SH	
Terrain	Plains	Rolling

**GEOMETRICS**

Primary Outside Shoulder	2 Bituminous		2 Bituminous
Primary Outside Shoulder Safety	0 None		0 None
Feature Primary Outside Shoulder Width	0	2	0 3
Primary Thru Lane Width	12		
Secondary Through Lane Width	12		

**SAFETY**

Primary Speed Limit	65		50	65
Secondary Speed Limit	65			65
Truck Restriction	1 National Truck Route			





**TRAFFIC**

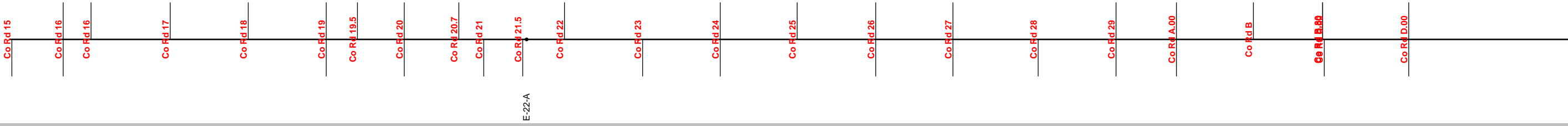
AADT	1000	740	1000
DHV	11.5		
Off Peak Truck Percentage	21.2	24.8	28
Peak Truck Percentage	1.9	1.62	3.1
Route Capacity	2850	1550	1580
V/C Ratio	0.05	0.06	0.08
V/C Ratio 20	0.07	0.09	
VMT	28380	3719	12079

It may appear that information is missing from the straight line diagram. If so, reduce the number of miles/page and re-submit the request.

141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161

Route 071D  
From 141 To 161

-  Ramps
-  Overpass
-  Underpass
-  Structures



**CLASSIFICATION**

Access Control	R-A: Regional Highway
Functional Class	3 Principal Arterial - Other
Highway Designation	SH
Terrain	Rolling Plains

**GEOMETRICS**

Primary Outside Shoulder	2 Bituminous	1 No Shoulder
Primary Outside Shoulder Safety	0 None	0 None
Feature Primary Outside Shoulder Width	3	2 0
Primary Thru Lane Width	12	
Secondary Through Lane Width	12	

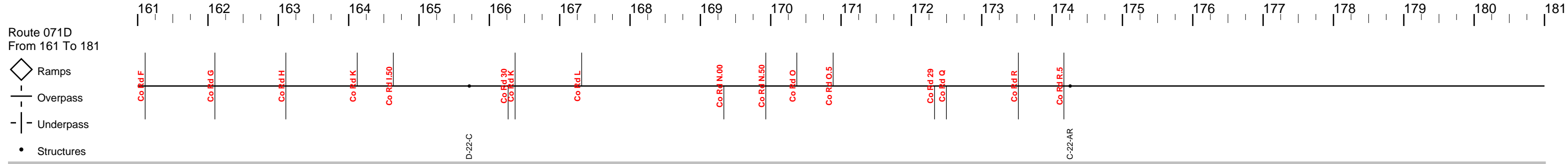
**SAFETY**

Primary Speed Limit	65	45	65
Secondary Speed Limit	65		65
Truck Restriction	1 National Truck Route		

**TRAFFIC**

AADT	1000	980	720
DHV	11.5		11
Off Peak Truck Percentage	28		35
Peak Truck Percentage	3.1	2.6	2.5
Route Capacity	1580	2300	2350
V/C Ratio	0.08	0.06	0.04
V/C Ratio 20	0.09	0.07	0.05
VMT	12079	4941	8056

It may appear that information is missing from the straight line diagram. If so, reduce the number of miles/page and re-submit the request.



**CLASSIFICATION**

Access Control	R-A: Regional Highway
Functional Class	3 Principal Arterial - Other
Highway Designation	SH
Terrain	Plains

**GEOMETRICS**

Primary Outside Shoulder	1 No Shoulder	
Primary Outside Shoulder Safety	0 None	0 None
Feature Primary Outside Shoulder Width	1	4
Primary Thru Lane Width	12	
Secondary Through Lane Width	12	

**SAFETY**

Primary Speed Limit	65	40
Secondary Speed Limit	65	40
Truck Restriction	1 National Truck Route	

**TRAFFIC**

AADT	720	1900	2100
DHV	11	10.5	11
Off Peak Truck Percentage	35	14.6	13.2
Peak Truck Percentage	2.5	0.95	1
Route Capacity	2350	3000	2280
V/C Ratio	0.04	0.08	0.12
V/C Ratio 20	0.05	0.1	0.16
VMT	8056	13683	1736

It may appear that information is missing from the straight line diagram. If so, reduce the number of miles/page and re-submit the request.



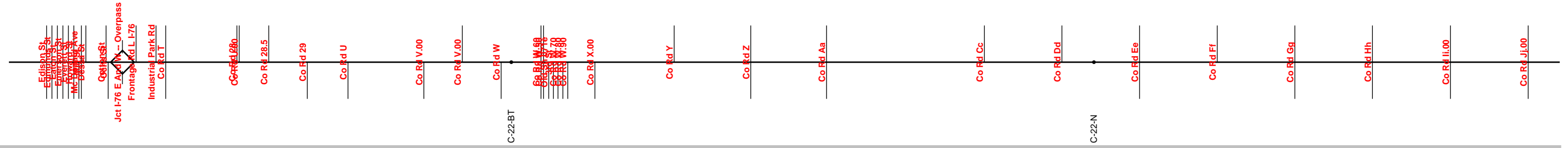




175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195

Route 071E  
From 175 To 195

- Ramps
- Overpass
- Underpass
- Structures



**CLASSIFICATION**

Access Control		R-A: Regional Highway		R-A: Regional Highway
Functional Class	3 Principal Arterial - Other			
Highway Designation	SH			
Terrain	Rolling		Plains	

**GEOMETRICS**

Primary Outside Shoulder	7 Curbed	1 No Shoulder	2 Bituminous
Primary Outside Shoulder Safety	0 None	0 None	0 None
Feature Primary Outside Shoulder Width	7 2 3 16	0	6 4 1
Primary Thru Lane Width	12		11 12 11
Secondary Through Lane Width	12		11 12 11

**SAFETY**

Primary Speed Limit	30 45 55 55 40 50 55 65
Secondary Speed Limit	30 45 55 50 55 35 55 40 50 65
Truck Restriction	1 National Truck Route

**TRAFFIC**

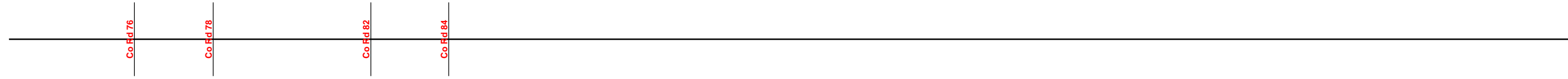
AADT	3800 5200 3700 1100 860 460 380 310
DHV	11 11.5 11 11.5
Off Peak Truck Percentage	7.6 3.9 7.5 18.4 21.7 41.6 42.1
Peak Truck Percentage	0.53 0.31 0.9 1.6 2 2.7 4 5.48
Route Capacity	3380 3750 2280 2900 1650 2450 2550
V/C Ratio	0.14 0.18 0.21 0.05 0.07 0.02
V/C Ratio 20	0.16 0.22 0.28 0.06 0.1 0.03
VMT	1683 2464 9102 2625 450 155 2732 3738

It may appear that information is missing from the straight line diagram. If so, reduce the number of miles/page and re-submit the request.

195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215

Route 071E  
From 195 To 215

- ◊ Ramps
- Overpass
- | Underpass
- Structures



**CLASSIFICATION**

Access Control	R-A: Regional Highway
Functional Class	3 Principal Arterial - Other
Highway Designation	SH
Terrain	Plains

**GEOMETRICS**

Primary Outside Shoulder	2 Bituminous
Primary Outside Shoulder Safety	0 None
Feature Primary Outside Shoulder Width	1 2 3
Primary Thru Lane Width	11
Secondary Through Lane Width	11

**SAFETY**

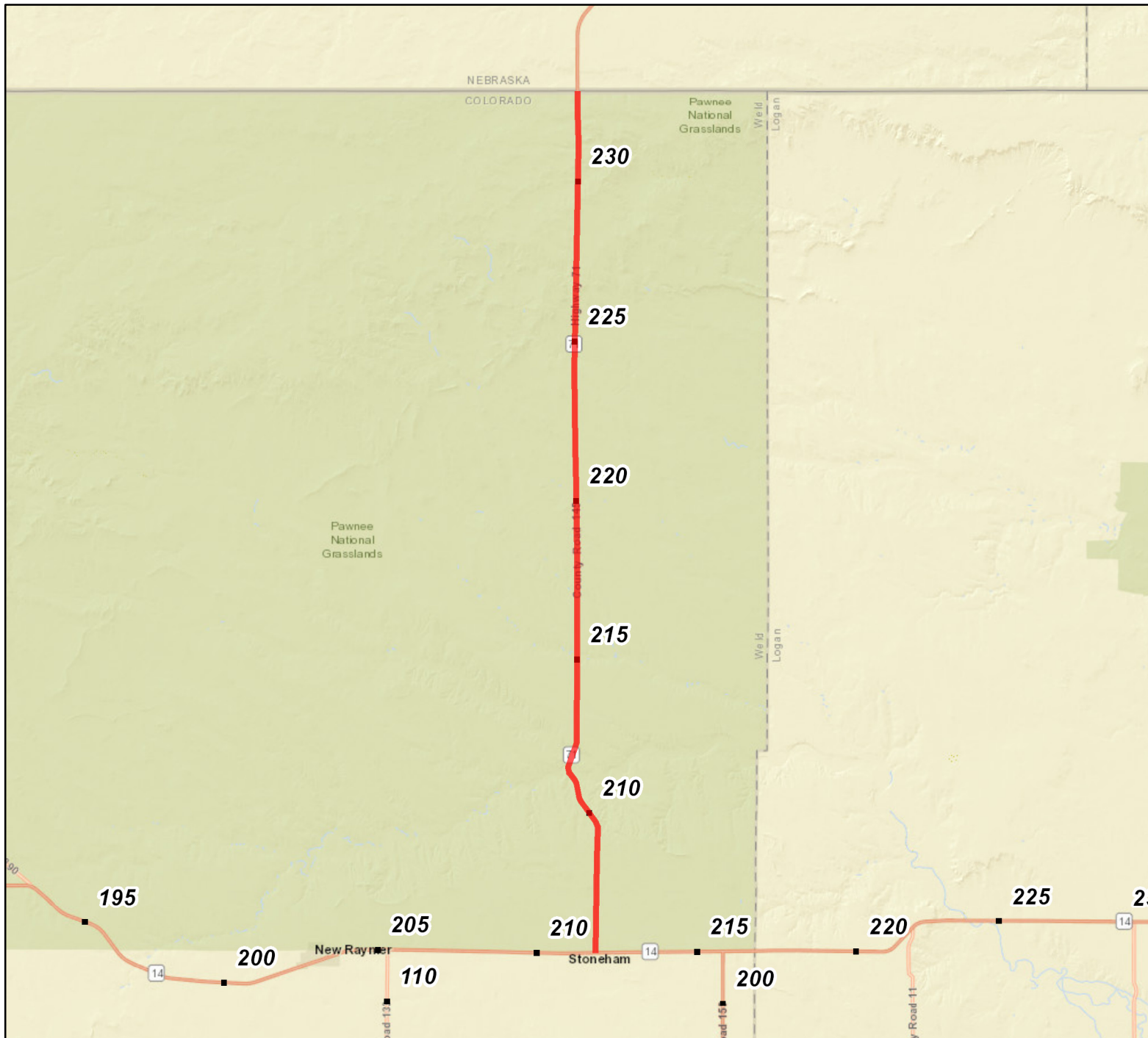
Primary Speed Limit	65 55
Secondary Speed Limit	65
Truck Restriction	1 National Truck Route

**TRAFFIC**

AADT	310
DHV	11.5
Off Peak Truck Percentage	42.1
Peak Truck Percentage	5.48
Route Capacity	2550
V/C Ratio	0.02
V/C Ratio 20	0.03
VMT	3738

It may appear that information is missing from the straight line diagram. If so, reduce the number of miles/page and re-submit the request.

# Route 071F From 205 to 233



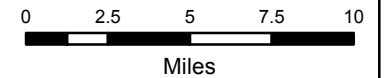
## Legend

- Route
- Milepoint

Created:

Date: 8/29/2017

Time: 9:54:53 AM

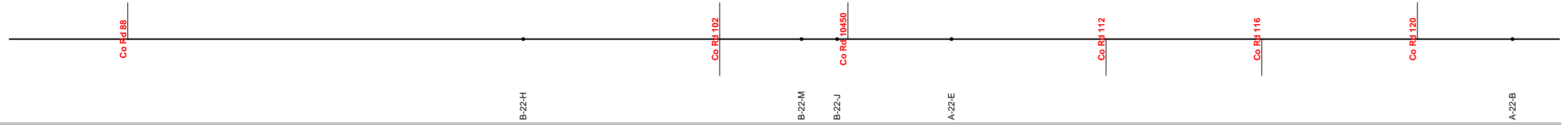


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205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225

Route 071F  
From 205 To 225

- ◊ Ramps
- Overpass
- |- Underpass
- Structures



**CLASSIFICATION**

Access Control	R-A: Regional Highway
Functional Class	3 Principal Arterial - Other
Highway Designation	SH
Terrain	Plains Rolling Plains

**GEOMETRICS**

Primary Outside Shoulder	2 Bituminous
Primary Outside Shoulder Safety	0 None
Feature Primary Outside Shoulder Width	2
Primary Thru Lane Width	12
Secondary Through Lane Width	12

**SAFETY**

Primary Speed Limit	65
Secondary Speed Limit	50 65
Truck Restriction	1 National Truck Route

**TRAFFIC**

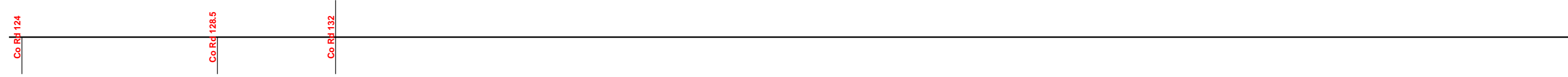
AADT	780
DHV	11
Off Peak Truck Percentage	34.9
Peak Truck Percentage	6.41
Route Capacity	1800
V/C Ratio	0.05
V/C Ratio 20	0.09
VMT	15319

It may appear that information is missing from the straight line diagram. If so, reduce the number of miles/page and re-submit the request.

225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245

Route 071F  
From 225 To 245

- ◊ Ramps
- Overpass
- Underpass
- Structures



**CLASSIFICATION**

Access Control	R-A: Regional Highway
Functional Class	3 Principal Arterial - Other
Highway Designation	SH
Terrain	Plains

**GEOMETRICS**

Primary Outside Shoulder	2 Bituminous
Primary Outside Shoulder Safety	0 None
Feature Primary Outside Shoulder Width	2
Primary Thru Lane Width	12
Secondary Through Lane Width	12

**SAFETY**

Primary Speed Limit	65
Secondary Speed Limit	65
Truck Restriction	1 National Truck Route

**TRAFFIC**

AADT	940
DHV	11
Off Peak Truck Percentage	36.5
Peak Truck Percentage	3.6
Route Capacity	2560
V/C Ratio	0.05
V/C Ratio 20	0.09
VMT	7222

It may appear that information is missing from the straight line diagram. If so, reduce the number of miles/page and re-submit the request.