# 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

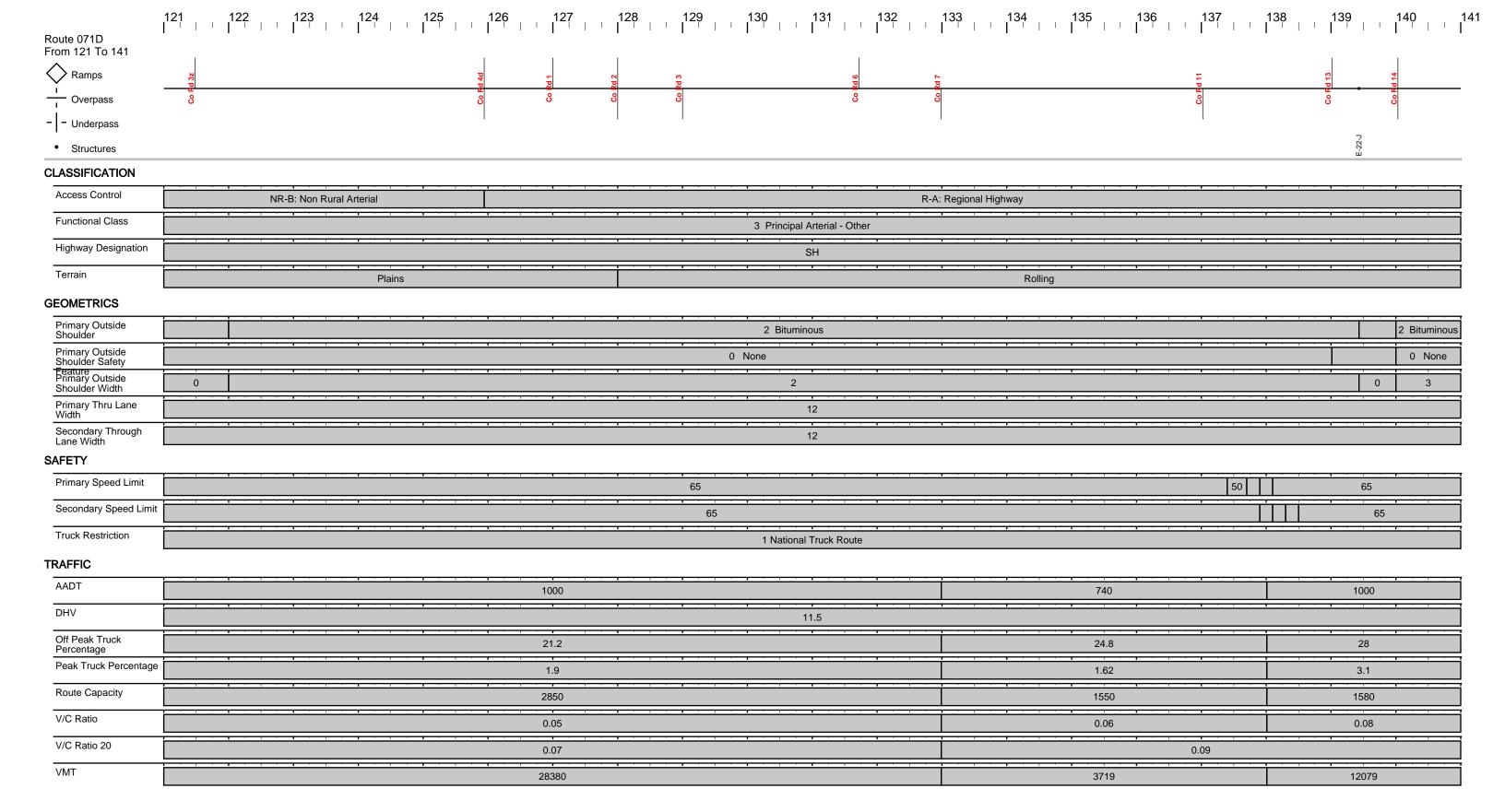
#### PREPARED BY:

WSP USA 1600 Broadway, Suite 1100 Denver, CO 80202



## Route 071D From 101 to 175 Legend 34 Fort Morgan Route Created: Date: 8/29/2017 Time: 12:04:47 PM Miles The information contained in this map is based on the most currently available data and has been 86 checked for accuracy. CDOT does not guarantee the accuracy of any information presented, is not liable in any respect for any errors or omissions, and is not responsible for determining "fitness for use".

	101 I	102 103	104	105 1	106 107	108	109 	110 111	112	113 	114 	115 116	117	118 	119	120 121 
Route 071D From 101 To 121	·				·	·		·	•				•	·		
Ramps		55 55 S	1 3h				13p	ž.	d 21 d 3t	1 22	123	124	13v		3w.5	38
Overpass		888 888	රි ව	•	•	S	S S	8	• ပိ	Co Ac	S	8 8	ပိ	•	S S	8
- Underpass		 88	I	Ø	а О О				>a	I			RS B	ΑZ	l	   M8
Structures		G-22-I		G-22-I	G-22-I				G-22-I				G-22-I	G-22-1		G-22-I
CLASSIFICATION																
Access Control	• •			1				NR-B: No	Rural Arterial							
Functional Class			· T · ·	1 1 1	, , , <b>,</b> ,			3 Principal	Arterial - Other	· • · ·			, <b>,</b> , ,	· •		
Highway Designation	• '			, , , ,				. , . ,	SH						. , ,	
Terrain	, ,							F	lains							
GEOMETRICS																
Primary Outside Shoulder	. ,			2 Bituminous			1 No Sho	ulder	2 Bitumir	ious			1 No Shou	ılder		
Primary Outside Shoulder Safety	. ,		0 None				0 None					0 N	one			
Feature Primary Outside Shoulder Width	• •	4 2	· • · · ·	6	· 1 · • ·		0		2	· • · · ·			0	· • · ·		
Primary Thru Lane Width	. ,			12			1 1 1 1	1				1 '   ' 1 '	12			
Secondary Through Lane Width	. ,			12	· , · •			1		· • · · ·		1 2 1 2 1 2 1	12			
SAFETY																_
Primary Speed Limit		45			· · · · ·				65							
Secondary Speed Lim	nit	45 55		<u>, , , , , , , , , , , , , , , , , , , </u>	· , · •			. , . ,	65	· • · · ·	, , ,	1 2 1 2 1 2 1	· • · ·			
Truck Restriction				<b>,</b> , , , ,	, , , <b>,</b> ,		, , ,	1 Nationa	Truck Route	, <b>,</b> , , ,		<u> </u>	, <b>,</b> , ,			
TRAFFIC																
AADT	• •	140	0	<u> </u>	· , · •		<u> </u>	· · · · ·	, , , , , , , , , , , , , , , , , , ,	1000			· • · ·	· • · ·		
DHV	• •			, , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , ,			, , , , , , , , , , , , , , , , , , ,	11.5		<del></del>		, , ,	, <u> </u>	, ,	
Off Peak Truck Percentage		18.5	5	1				· , , ,	, , <b>,</b> ,	21.2						
Peak Truck Percentag	ge	2.3						, , , , , , , , , , , , , , , , , , ,	, , <b>,</b>	1.9			, ,	•		
Route Capacity	, ,	305	0	, , , ,		1 1 1 1		. , . ,		2850				. ,		
V/C Ratio	• , ,	0.00	6			, . <b>,</b> . , .				0.05						
V/C Ratio 20					, , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , ,	. ,	, , , <b>,</b>	0.07				, <b>,</b> , ,			
VMT	ı , i	330	4 <b>I</b>	1		1 . 1				8380			,	. ,	. , . ,	



Route 071D		141 I	142	143	144 	145	146	147	148	3 1	149	150 I	151 	152	153 	154 	155 	156 	157	158	159	160 1	61
-   - Marganes	Route 071D From 141 To 161	•														·		-					
Customer   Customer	Ramps	12	9 19	11	18	19.5	120	20.7	21.5	2	3	24	25	76	27	<b>78</b>	29	A.00	8	<b>8</b>	D.00		
CLASSIFICATION	Overpass	S S	ပိ ပိ	ပိ	ပိ	Co Rd	ပိ		လို ပိ		3	<u>မှ</u>	ပိ	<u>မ</u> ပ	ပိ	<u>8</u>	ပိ	ი გ	ပိ	60 EK	Co R R	_	
CASSIFICATION	Underpass					l												I					
Research   Research Highway	Structures																						
Purity   P	CLASSIFICATION																						
Figure   Common   Figure   F	Access Control									· ·		R-A: R	egional High	way									
Primary Cheed   Primary Speed Limit   Prim	Functional Class				· · · ·							3 Princip	oal Arterial -	Other		. ,							
Commerce   Commerce	Highway Designation				<b>,</b>			, ,	, , , ,	, , <b>,</b>	, , ,	,	SH			<b>,</b> , ,			•				
Primary Qualidation	Terrain			, , ,	. , ,	Rollin	ng			, , ,						, ,	Plai	ns					
Princy Outside   0 None   0	GEOMETRICS																						
Primary You Lane   12	Primary Outside Shoulder				<b>,</b>			2 Bituminou	us	, , <b>,</b>	, , ,	,							1 No S	houlder			
Primary You Lane   12	Primary Outside Shoulder Safety			, , ,	0 None					, , ,						0 None							
Princy Thru Lane   12	Feature Primary Outside Shoulder Width	,		. ,				3		, , ,		• •			2		<b>,</b> ,		(	)			
Same										, , <u>, , , , , , , , , , , , , , , , , </u>		, ,	12				•						
SAFETY           Primary Speed Limit         65         45         65           Secondary Speed Limit         65         65           Truck Restriction         1 National Truck Route           TRAFFIC           AADT         1000         960         720           DHV         111.5         11           Off Peak Truck Percentage         28         35           Peak Truck Percentage         3.1         2.6         2.5           Route Capacity         1580         2300         2350           Vicalio         0.06         0.04					· • · ·		,	, , <u>,</u>	<u> </u>	, , <b>,</b>	, , ,	, ,	12				•						
Secondary Speed Limit   65     65     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	Primary Speed Limit								65	, , <u>, , , , , , , , , , , , , , , , , </u>		, ,					45			65			
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	Secondary Speed Limit	it			· • ·		, ,	· •	65	, , <u>,</u>	, , ,	•				, ,				65	· 1 · 1		
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	Truck Restriction		, , , , , , , , , , , , , , , , , , ,		· • ·			, <b>,</b> ,	, , , , , , , , , , , , , , , , , , ,	, , ,	. , ,	1 Natio	nal Truck Ro	oute		<u> </u>		,		, ,			
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	TRAFFIC																						
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	AADT		1 1 1 1	· • • •		100	00			, , <u>, , , , , , , , , , , , , , , , , </u>	'   '		, 1		980	1 2 1				720	* 1 · · · · · · · · · · · · · · · · · ·		
Percentage         26           Peak Truck Percentage         3.1         2.6         2.5           Route Capacity         1580         2300         2350           V/C Ratio         0.06         0.04	DHV				· • •		, ,	, , <u>, , , , , , , , , , , , , , , , , </u>	11.5	, , <u>, , , , , , , , , , , , , , , , , </u>	, , ,	, ,								11			
Peak Truck Percentage         3.1         2.6         2.5           Route Capacity         1580         2300         2350           V/C Ratio         0.08         0.06         0.04	Off Peak Truck				· r · ı			· •	28	, · •	. , .	· ·				<u> </u>				35			
V/C Ratio 0.06 0.04		е		. ,		3.	1								2.6	, ,				2.5			
0.00	Route Capacity					158	30			, , , ,	-		, ,		2300					2350			
V/C Ratio 20 0.09 0.05	V/C Ratio					0.0	8			, , , , , , , , , , , , , , , , , , ,	. ,				0.06	, , ,				0.04			
	V/C Ratio 20		, , , , , ,			0.0	9	, ,		, ,	, ,				0.07	<b>,</b> , ,				0.05			
VMT 12079 8056	VMT				· I · ·					, . ,	. 1 .					I						•	

	161 	162 1	163	164	165 I	166   I	167	168 	169 I	170   I	171   I	172	173	174	175	176	177   I	178 	179   I	180 	181 I
Route 071D From 161 To 181	,		1		ı		'	'	•		•	•	'	•	'	ı	,	•	'	'	'
Ramps	IL D	0 =		d K		24 84 84 84 84 84 84 84 84 84 84 84 84 84	d.		N.00	N.50 d O	0.5	d 29	E D	R.5							
Overpass	ပိ	8	3	S S	•	ပ္ပ်ပ္ပ် မြောင်း	ပိ		Co Re	S S S S S S S S S S S S S S S S S S S	So R	3 3	ပိ	S 8							_
Underpass					43					l				ري ا							
• Structures					D-22-C									C-22-A							
CLASSIFICATION																					
Access Control							R-A: Regional	Highway	,	, ,											_
Functional Class			. , .	. , ,	, ,		3 Principal Arter	rial - Other	, ,			, , ,	, ,						· • · · ·		_
Highway Designation		,	. ,		,	, , ,	SH	, , ,	, ,	· • · · ·			, , ,		1 1 1		· •		· • · ·		_
Terrain		T		1	1 '	· •	Plains		, . ,	· •											<b>¬</b>
GEOMETRICS																					
Primary Outside Shoulder			, , ,				1 No Sho	oulder	,				•						, , ,		_
Primary Outside Shoulder Safety		1 '   '	0 None				· • • • • • • • • • • • • • • • • • • •	1	, ,	0 None											_
Feature Primary Outside Shoulder Width	1						0	, ,	, ,				•	4							_
Primary Thru Lane Width			1 1				12		•		,		, ,		1 . 1						_
Secondary Through Lane Width				• • •	<u>, , , , , , , , , , , , , , , , , , , </u>		12		, ,						· · · ·						_
SAFETY																					
Primary Speed Limit		1	, , ,	, , ,			65	, , ,	, , ,		1			40							_
Secondary Speed Limit	it	1 1 1			1 .	· •	65	1	<u> </u>					40					· • · ·		<b>¬</b>
Truck Restriction			. , .		•		1 National True	ck Route	, ,	· •									· • · ·		_
TRAFFIC																					
AADT		1 , , , ,	720		, ,			, , ,	1 1	1900		, , ,	•	2100					, ,		_
DHV		1 , , , ,	11		•		, <b>,</b> , ,	1	<u> </u>	10.5		, , ,	, ,	11					· •		_
Off Peak Truck Percentage			35							14.6				13.2							_
Peak Truck Percentage	le		2.5							0.95				1							<b>¬</b>
Route Capacity			2350		<del></del>			<del>, , , ,</del>		3000				2280	1 1						_
V/C Ratio			0.04					, , ,		0.08				0.12							<b>¬</b>
V/C Ratio 20			0.05		1			, , ,		0.1				0.16							<b>–</b>
VMT		1 '   '	8056					, , ,	, ,	13683		, , ,		1736							<b>-</b>

#### Route 071E From 175 to 202 225 230 Legend 205 210 215 220 Route New Raymer Stoneham 14 200 110 200 Milepoint County Road 18 105 195 Created: Date: 8/29/2017 County Road 10 Time: 9:54:27 AM Merino 390 100 190 Miles County Road EE 105 95 185 380 100 County Road X Snyder County Road W 90 180 The information contained in this 25 map is based on the most currently 85 90 available data and has been 80 checked for accuracy. CDOT does 165 170 not guarantee the accuracy of any Edison St Brush 180 information presented, is not liable in any respect for any errors or 185 omissions, and is not responsible County Road Q for determining "fitness for use".

Route 071E	175 176 1	77   178   1	179	181   182	183 184 185	186   187	188 189	190 <sub>  1</sub>	191   192 	193 194 195
From 175 To 195	e			I II		1	1 1	1 1	1 1	
Ramps	Park H	128.5	7 O O	00.×	Z P2	V Va	P P P P	d Ff	d Gg	1.00
Overpass	Gotto Ontage	යි. සූ යි. දෙ	S S	00 00 00 00 00 00 00 00 00 00 00 00 00	8 8	9	8	8	S S	S S S S S S S S S S S S S S S S S S S
Underpass		I	I I	<u></u>		I	z	I	ı	I I
Structures	·			C-22-			C-22-			
CLASSIFICATION										
Access Control		R- <i>I</i> -	A: Regional Highway				R-A: Regional Highway	у		
Functional Class		· 1 · 1 · 1 · 1 · 1	· 1 · 1 · 1		3 Principal Art	erial - Other				
Highway Designation					SH				·	
Terrain		Roll	ling				Plains			
GEOMETRICS				•						
Primary Outside Shoulder	7 Curbed	1 No	Shoulder		· • · · · • · · · · · · · · · · · · · ·		2 Bituminous			
Primary Outside Shoulder Safety	0 None	0 No	one		0	None		, , , , , , , , , , , , , , , , , , ,	0 None	
Feature Primary Outside Shoulder Width	7 2 3 16	· 1 · 1 · 1 · 1	0	6 4			1			
Primary Thru Lane Width		12	1 1 1			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	t 30 45	55 50 55	35	55 40	50		6	55		
Truck Restriction		. ,			1 National Tr	uck 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			

	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	178	
Overpass	3 3 3	
Underpass		
Structures		
CLASSIFICATION		
Access Control	R-A: Regional Highway	
Functional Class	3 Principal Arterial - Other	
Highway Designation	SH	]
Terrain	Plains	<u></u>
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 Lim	it 65	<u>- , , , , , , , , , , , , , , , , , , ,</u>
Truck Restriction	1 National Truck Route	<u> </u>
TRAFFIC		
AADT	310	1
DHV	11.5	Ī
Off Peak Truck Percentage	42.1	<u> </u>
Peak Truck Percentag	e 5.48	<u> </u>
Route Capacity	2550	<u>.</u>
V/C Ratio	0.02	<u></u>
V/C Ratio 20	0.03	<u> </u>
VMT	3738	<u> </u>

#### Route 071F From 205 to 233 Legend NEBRASKA Route National Milepoint Grasslands 230 Created: 225 Date: 8/29/2017 Time: 9:54:53 AM 220 2.5 7.5 Miles National Grasslands 215 210 The information contained in this map is based on the most currently 195 225 23 available data and has been 14 checked for accuracy. CDOT does 205 210 215 220 not guarantee the accuracy of any New Raymer 200 Stoneham information presented, is not liable 110 200 in any respect for any errors or omissions, and is not responsible for determining "fitness for use".

