



Date: October 12, 2010
To: City/County Transportation Officials
From: Alisa Babler
Permit Unit Engineer
Subject: **CDOT Region 3 Intersection Analysis and Prioritization
Request for Applications**

CDOT Region 3 Traffic and Safety (CDOT) has commissioned Fehr and Peers to complete the Intersection Analysis and Prioritization Study. The intent of this study is to update the study done in 2007, develop a methodology, and prioritize intersection improvements for the use of the TPR and CDOT in a multi-year funding program. Up to three intersections per county will be analyzed in-depth and ranked, to assist in developing priorities for CDOT and the TPR. The study will analyze the intersections, identifying long and short term improvements to address deficiencies, and recommend prioritization for future funding.

At this time we are requesting intersection applications for the study. Intersections for consideration should have safety or operational issues and be located on the state highway system. We are requesting that counties submit up to three intersections for inclusion in the study. Additionally, please provide the application packet to cities within your respective county for additional submittals by the city if desired. All intersections submitted will be compiled and an initial evaluation done to establish the top three intersections in the county for an in-depth analysis and inclusion in the study. Intersections not included in the in-depth analysis will be provided as a list in the appendix for future reference.

Any supporting data and documentation available, as it relates to the intersection, will be useful in determining applicable improvements and the final priority of the intersection. The application should include as many specifics as possible regarding deficiencies of the intersection, time of day, impacts of weather, geometric constraints, right of way constraints, crash history, and any other site specific information available.

Please provide your applications no later than **December 1, 2010**. Completed applications should be sent to:

Emily Gloeckner, P.E.
Fehr & Peers Transportation Consultants
621 17th Street, Ste. 2301
Denver, CO 80293
E.Gloeckner@fehrandpeers.com

Phone: 303-296-4300
Fax: 303-296-4302

Thank you for assisting us in the development of this program. Should you have any questions, please feel free to contact the CDOT project manager, Alisa Babler at 970-683-6271 or the Fehr & Peers project manager, Emily Gloeckner, at 303-296-4300.

Region 3 Intersection Analysis and Prioritization
Intersection Application

Requesting Agency

Agency Name	Eagle County
Contact Person	Greg Schroeder
Title	Senior Project Engineer
Email	greg.schroeder@eaglecounty.us
Phone Number	970.328.3567
Mailing Address	PO Box 850 Eagle, CO 81631 500 Broadway (for Fedex/UPS) Eagle, CO 81631

Intersection Location

Highway (example, US 50)	SH82		
Highway Milepost	16.02 (5180' west of MP17, from access permit)		
Local Cross Street name	JW Drive (on N. side), Valley Road (on S. Side)		
Is the Cross Street (check one)	Public ROW x	Private Drive	Other

Intersection Information

Type of Intersection (check one)	Signal	Minor St Stop x	All Way Stop	Other:
Nearby Driveways	Yes: Distance between intersections:			No x
Traffic Mix (check all that apply)	Trucks	Pedestrians	Bicycles	Other:
Intersection Issues	Please describe the types of safety or operational issues at the intersection.			
Safety Issues:	<p>1. Intersection sees heavy traffic from residential areas on the north side (El Jebel Road) and commercial area.</p> <p>2. Turn lanes on the N. side into Favre Lane (private road) do not allow full lane capacity for SB lanes onto SH82</p> <p>3. On south side (Valley Road) has a poor alignment at where Valley Road west connects. This makes it difficult for pedestrians due to the geometry.</p> <p>*** See attached maps for more information ***</p>			
Operational Issues:	<p>1. Lane lengths are not long enough for the peak queues.</p> <p>2. There is inadequate length for adequate queueing lanes and as a result, traffic often backs up into adjacent intersections. This occurs on both north and south sides of the intersection.</p> <p>3. Close proximity of sidestreets (Valley Road on S., Farve Ln. & Driveways on the N.) cause blockages during peak times.</p> <p>*** See attached maps for more information ***</p>			

Intersection Deficiencies

Please provide a brief description of the existing intersection deficiencies and associated safety concerns, including time of the concerns (day of the week/hour(s)/seasons/time/weekday/weekend/holiday/etc):

The SH82/El Jebel Road intersection has numerous issues with operational concerns:

1. To the north side, El Jebel Road has short lane lengths that interfere with Farve Lane and the commercial turnout on the east side. There is also a RFTA bus dropoff location to the north that causes difficulty.
2. During the peak morning, substantial traffic comes from the Blue Lake Subdivision (via JW Drive to the north and west) and traffic from Upper El Jebel Road that comes from Missouri Heights (accessed to the north from El Jebel Road). At times the SB queues can be nearing the Gillespie intersection.
3. Throughout the day, the commercial uses, primarily the Wendy's and the gas station (located on the NW corner of the intersection) see substantial traffic.

*** See attached maps for more information ***

Mitigation

Please provide a brief description of possible mitigations, improvements, and/or projects to mitigate the safety concerns at the intersection:

1. On the north side, creation of a one way loop for Farve Lane/Gillespie (ie, removing the LT in lane onto Farve Lane) would give more room for the intersection and allow the SB lanes more space.
2. Changing the location of the RFTA bus stop dropoff on the north side. (Key note #12 on the attached map)
3. On the south side, realignment of the frontages, especially since there is a proposed rec. center (#14) and a proposed park & ride with RFTA's BRT system (#13) underway. These proposed uses will have a substantial effect on the traffic volumes, safety, and operations.
4. The addition of a SB right turn only lane onto upvalley SH82 would alleviate some of the morning congestion, as presently it is a straight through/RT combined lane.

*** See attached maps for more information ***

Are there any existing plans for improvements for this intersection? Yes/No. If yes, please explain:

There are currently no existing plans for improvements at this intersection.

Are any additional funding sources available for this project: Yes/No. If yes, please explain:

There are no identified funding sources at this time.

Does this intersection have impacts to adjacent intersections, roadways, etc? If yes, please explain:

This intersection has substantial traffic (~9000+ ADT on N. side, ~1400 ADT on S. side), and with the close road/driveway spacing, there are impacts.

Additional Information

To assist in analyzing the intersection please attach the following information if available/applicable:

- Accident data, including police reports if available
- Traffic Volumes, such as AADT/ADT, peak hour volumes, peak hour turning movement counts
- Traffic Studies
- Pedestrian Counts
- Bicycle Counts
- Existing signal timing or Synchro files
- Existing construction plans
- Survey data
- Aerial photos
- Photographs of the intersection
- Right of Way maps
- Any other data/documentation to assist in analyzing the intersection

Detailed Aerial photos are available upon request. Traffic volumes are included from Eagle County's summer traffic counting.

COLORADO DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ACCESS PERMIT			CDOT Permit No. 300100
			State Highway No/Mp/Side 082A/019.100/R
Permit fee 0.00	Date of transmittal 05/19/2000	Region/Section/Patrol 03/2/16	Local Jurisdiction Eagle County

The Permittee(s); Eagle County Government PO Box 850 Eagle, CO 81631 970-328-8760	Applicant; George Roussos Eagle Co: Tree Farm E. Valley Rd. PO Box 850 Eagle, CO 81631 970-328-8760
--	---

is hereby granted permission to have an access to the state highway at the location noted below. The access shall be constructed, maintained and used in accordance with this permit, including the State Highway Access Code and any attachments, terms, conditions and exhibits. This permit may be revoked by the issuing authority if at any time the permitted access and its use violate any parts of this permit. The issuing authority, the Department and their duly appointed agents and employees shall be held harmless against any action for personal injury or property damage sustained by reason of the exercise of the permit.

Location:
 Access to SH 82 Frontage Road at ROW boundary on East Valley Road, a distance of 150 east of El Jebel Road spur. Access to SH 82 Frontage only.

Access to Provide Service to:
 County Road..... **6,300 ADT** **100.00 %**

Other terms and conditions:
 * See Attached Pages 2 and 3 and Other Enclosures for Additional Terms and Conditions.

MUNICIPALITY OR COUNTY APPROVAL
 Required only when the appropriate local authority retains issuing authority.

By (x)	Date	Title
--------	------	-------

Upon the signing of this permit the permittee agrees to the terms and conditions and referenced attachments contained herein. All construction shall be completed in an expeditious and safe manner and shall be finished within 45 days from initiation. The permitted access shall be completed in accordance with the terms and conditions of the permit prior to being used.

The permittee shall notify Mike Moore with the Colorado Department of Transportation in Basalt/El Jebel, CO at 970-927-3137 at least 48 hours prior to commencing construction within the State Highway right-of-way.

The person signing as the permittee must be the owner or legal representative of the property served by the permitted access and have full authority to accept the permit and its terms and conditions.

Permittee (x) 	Date 5/25/00
--	------------------------

This permit is not valid until signed by a duly authorized representative of the Department.
 COLORADO DEPARTMENT OF TRANSPORTATION

By (x) 	Date (of issue) 01 JUNE 2000	Title DESIGN ENGINEER Access Manager
---	--	---

Copy Distribution: Required: Make copies as necessary for: Previous editions are obsolete and may not be used
 1.Region 1.Local Authority Local Authority Inspector CDOT Form #101 8/98
 2.Applicant 2.MTCE Patrol Inspector Traffic Engineer
 3.Staff Access Section

COLORADO DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ACCESS PERMIT

H No/MP/Side: 82/20.0/L
Local Jurisdiction: Eagle County
Dist/Section/Patrol: 3216
DOT Permit No.: 395068
Permit Fee: Exempt
Date of Transmittal: 4-19-95

PERMITTEE:

Eagle County
P. O. Box 179
Eagle, CO 81631

is hereby granted permission to construct and use an access to the state highway at the location noted below. The access shall be constructed, maintained and used in accordance with the terms and conditions of this permit, including the State Highway Access Code and listed attachments. This permit may be revoked by the issuing authority if at any time the permitted access and its use violate any of the terms and conditions of this permit. The use of advance warning and construction signs, flashers, barricades and flaggers are required at all times during access construction within State right-of-way in conformance with the MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, Part VI. The issuing authority, the Department and their duly appointed agents and employees shall be held harmless against any action for personal injury or property damage sustained by reason of the exercise of the permit.

LOCATION:

On the north side of State Highway 82, a distance of 5260 feet east from Mile Post 19; El Jabel Road intersection.

ACCESS TO PROVIDE SERVICE TO:

Xpress Lube (2016 sf), Texaco Station (300 sf), and Wendy's Restaurant (3,000 sf).

OTHER TERMS AND CONDITIONS:

1. Access shall be constructed per the High Country Engineering, Inc. plans dated 2/17/95.

MUNICIPALITY OR COUNTY APPROVAL

Required only when the appropriate local authority retains issuing authority.

By (X) Phillip W Scott Date 4-28-95 Title Senior Eng. Technician

Upon the signing of this permit the permittee agrees to the terms and conditions and referenced attachments contained herein. All construction shall be completed in an expeditious and safe manner and shall be finished within 45 days from initiation. The permitted access shall be completed in accordance with the terms and conditions of the permit prior to being used. The permittee shall notify Nick Lopez with the Colorado Department of Transportation in _____ at 945-3840 at least 48 hours prior to commencing construction within the State Highway right-of-way.

The person signing as the permittee must be the owner or legal representative of the property served by the permitted access and have full authority to accept the permit and all its terms and conditions.

Permittee (X) James E. Johnson, Jr., Chairman Eagle County BoCC Date 4-28-95

This permit is not valid until signed by a duly authorized representative of the Department.
DEPARTMENT OF TRANSPORTATION, STATE OF COLORADO

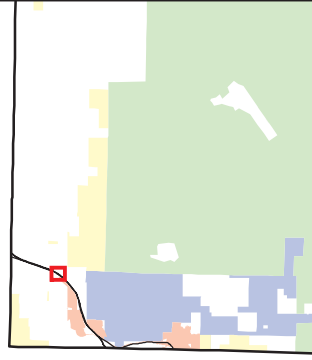
By (X) [Signature] Date 5-1-95 Title Administrator, Access Committee
(Date of issue)

COPY DISTRIBUTION:

Required:
1. District (Original)
2. Applicant
3. Staff ROW

Make copies as necessary for:
Local Authority
MTCE Patrol
Inspector
Traffic Engineer

Previous Editions are Obsolete and will not be used
CDOT Form #101
7/91



Vicinity Map



1. LT Queue lanes too short, backs up into south intersection.
2. Confusing intersection, LT motions are often blocked by queued vehicles
3. Pedestrian underpass not well lit.
4. SB LT lanes not long enough, constrained by multiple accesses.
5. LT motions blocked by queued vehicles
6. LT lane onto Favre Lane (private road) prohibits longer SB LT lanes.
7. Pedestrian crossing at confusing intersection.
8. No dedicated RT lane off of El Jebel Road onto SH82, causes backups.
9. Intersection is not at 90 degree angle
10. No pedestrian crossing of El Jebel Road
11. Future frontage road connectivity point will add additional traffic
12. Bus Stop location causes backups and does not have good ped. access
13. Future RFTA Bus Stop/Park&Ride area
14. Future Crown Mountain Recreation Center



Area Map



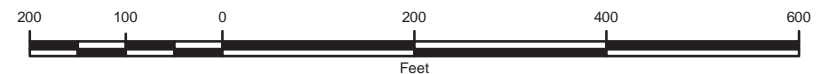
Detailed Map

SH82 / El Jebel Road

Intersection Deficiency Analysis

11.15.2010

Revision History:



1 Inch equals 200 Feet



This map was created by the Eagle County Engineering Department. Use of this map should be for general purposes only. Eagle County does not warrant the accuracy of the data contained herein.



2010 TRAFFIC COUNT SUMMARY
Eagle County Colorado

Max of EQUIV		Year										
NAME	M.M.	1997	1999	2001	2002	2004	2005	2006	2007	2009	2010	
EL JEBEL ROAD	0.03					8,060						
	0.03							9,715				
	0.11				4,834							
	0.03									9,023		
EL JEBEL ROAD [1]	0.01					3,138						
	0.03							3,091			3,302	
	0.39				1,992							
	0.80	1,946	2,423				3,070					
EL JEBEL ROAD [2]	1.10								2,634			
VALLEY ROAD (E)	0.05								1,423			
	(blank)			1,104			1,370					
VALLEY ROAD (W)	0.04							546			688	
	0.10	1,087		1,733								
	(blank)							745				

Notes:

El Jebel Road - S. of Favre Lane

El Jebel Road [1] - S. of JW Drive, N. of Gillespie

El Jebel Road [2] - N. of JW Drive



Date: October 12, 2010
To: City/County Transportation Officials
From: Alisa Babler
Permit Unit Engineer
Subject: **CDOT Region 3 Intersection Analysis and Prioritization
Request for Applications**

CDOT Region 3 Traffic and Safety (CDOT) has commissioned Fehr and Peers to complete the Intersection Analysis and Prioritization Study. The intent of this study is to update the study done in 2007, develop a methodology, and prioritize intersection improvements for the use of the TPR and CDOT in a multi-year funding program. Up to three intersections per county will be analyzed in-depth and ranked, to assist in developing priorities for CDOT and the TPR. The study will analyze the intersections, identifying long and short term improvements to address deficiencies, and recommend prioritization for future funding.

At this time we are requesting intersection applications for the study. Intersections for consideration should have safety or operational issues and be located on the state highway system. We are requesting that counties submit up to three intersections for inclusion in the study. Additionally, please provide the application packet to cities within your respective county for additional submittals by the city if desired. All intersections submitted will be compiled and an initial evaluation done to establish the top three intersections in the county for an in-depth analysis and inclusion in the study. Intersections not included in the in-depth analysis will be provided as a list in the appendix for future reference.

Any supporting data and documentation available, as it relates to the intersection, will be useful in determining applicable improvements and the final priority of the intersection. The application should include as many specifics as possible regarding deficiencies of the intersection, time of day, impacts of weather, geometric constraints, right of way constraints, crash history, and any other site specific information available.

Please provide your applications no later than **December 1, 2010**. Completed applications should be sent to:

Emily Gloeckner, P.E.
Fehr & Peers Transportation Consultants
621 17th Street, Ste. 2301
Denver, CO 80293
E.Gloeckner@fehrandpeers.com

Phone: 303-296-4300
Fax: 303-296-4302

Thank you for assisting us in the development of this program. Should you have any questions, please feel free to contact the CDOT project manager, Alisa Babler at 970-683-6271 or the Fehr & Peers project manager, Emily Gloeckner, at 303-296-4300.

Region 3 Intersection Analysis and Prioritization
Intersection Application

Requesting Agency

Agency Name	Eagle County
Contact Person	Greg Schroeder
Title	Senior Project Engineer
Email	greg.schroeder@eaglecounty.us
Phone Number	970.328.3567
Mailing Address	PO Box 850 Eagle, CO 81631 500 Broadway (for Fedex/UPS) Eagle, CO 81631

Intersection Location

Highway (example, US 50)	US6		
Highway Milepost	164.000/L		
Local Cross Street name	Hillcrest Drive		
Is the Cross Street (check one)	Public ROW x	Private Drive	Other

Intersection Information

Type of Intersection (check one)	Signal	Minor St Stop x	All Way Stop	Other:
Nearby Driveways	Yes: Distance between intersections:			No x
Traffic Mix (check all that apply)	Trucks	Pedestrians	Bicycles	Other:
Intersection Issues	Please describe the types of safety or operational issues at the intersection.			
Safety Issues:	<p>1. Intersection is only public access point for Lake Creek Village Subdivision, ERW&SD's WWTF, and several larger rural lots. (There is a private access point through another subdivision.)</p> <p>2. The intersection is not perpendicular to US6.</p> <p>3. The high traffic numbers with the stop sign can cause queueing issues over the bridge and back to Lake Creek Village Road</p> <p>4. There is no LT acceleration lane onto US6.</p> <p>*** See attached maps for more information ***</p>			
Operational Issues:	<p>1. The stop sign does not allow the queue to flush and with one SB lane, right turn motions are delayed substantially.</p> <p>2. Much of the SB traffic are making left turns to the Edwards area, and this motion is dangerous onto US6</p> <p>3. The traffic volumes are probably sufficient to warrant a stoplight. CDOT performed a preliminary warrant analysis and the intersection met the peak hour warrant. (see attached)</p> <p>*** See attached maps for more information ***</p>			

Intersection Deficiencies

Please provide a brief description of the existing intersection deficiencies and associated safety concerns, including time of the concerns (day of the week/hour(s)/seasons/time/weekday/weekend/holiday/etc):

1. The predominant access for Hillcrest is for residential, and therefore the peaks are substantial during the morning and evening hours. The SB LT is dangerous in merging into US6 without an acceleration lane.
 2. Item #1 is complicated with the offset intersection and not having adequate sight distance with making the left turn onto EB US6.
- *** See attached maps for more information ***

Mitigation

Please provide a brief description of possible mitigations, improvements, and/or projects to mitigate the safety concerns at the intersection:

1. Installation of a traffic signal
2. Construction of a LT acceleration lane on US6

*** See attached maps for more information ***

Are there any existing plans for improvements for this intersection? Yes/No. If yes, please explain:

There are currently no existing plans for improvements at this intersection.

Are any additional funding sources available for this project? Yes/No. If yes, please explain:

There are no identified funding sources at this time.

Does this intersection have impacts to adjacent intersections, roadways, etc? If yes, please explain:

This intersection has substantial traffic (~9000+ ADT on N. side, ~1400 ADT on S. side), and with the close road/driveway spacing, there are impacts.

Additional Information

To assist in analyzing the intersection please attach the following information if available/applicable:

- Accident data, including police reports if available
- Traffic Volumes, such as AADT/ADT, peak hour volumes, peak hour turning movement counts
- Traffic Studies
- Pedestrian Counts
- Bicycle Counts
- Existing signal timing or Synchro files
- Existing construction plans
- Survey data
- Aerial photos
- Photographs of the intersection
- Right of Way maps
- Any other data/documentation to assist in analyzing the intersection

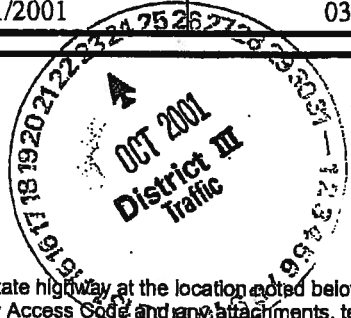
Detailed Aerial photos are available upon request. Traffic volumes are included from Eagle County's summer traffic counting.

COLORADO DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ACCESS PERMIT

CDOT Permit No.
 301110
 State Highway No/Mp/Side
 006E/164.000/L

Permit fee 0.00 Date of transmittal 09/11/2001 Region/Section/Patrol 03/02/20 Local Jurisdiction Eagle County

The Permittee(s);
 Eagle County
 P.O. Box 850
 Eagle, CO 81631
 970-328-8760



Applicant;
 Wilmor Development LLC & CVCLP, LLC
 P.O. Box 988
 Edwards, CO 81632
 970-926-3111

is hereby granted permission to have an access to the state highway at the location noted below. The access shall be constructed, maintained and used in accordance with this permit, including the State Highway Access Code and any attachments, terms, conditions and exhibits. This permit may be revoked by the issuing authority if at any time the permitted access and its use violate any parts of this permit. The Issuing authority, the Department and their duly appointed agents and employees shall be held harmless against any action for personal injury or property damage sustained by reason of the exercise of the permit.

Location:
 On the left (north) side of US 6E, a distance of 20 feet east from MP 164. This is at the intersection of US 6 and Hillcrest Drive.

Access to Provide Service to:
 County Road..... 75 DHV 100.00 %

Other terms and conditions:
 * See Attached Pages 2 and 3 and Other Enclosures for Additional Terms and Conditions.

MUNICIPALITY OR COUNTY APPROVAL

Required only when the appropriate local authority retains issuing authority.

By (x) N/A Date Title

Upon the signing of this permit the permittee agrees to the terms and conditions and referenced attachments contained herein. All construction shall be completed in an expeditious and safe manner and shall be finished within 45 days from Initiation. The permitted access shall be completed in accordance with the terms and conditions of the permit prior to being used.

~~The permittee shall notify Mark Bachal with the Colorado Department of Transportation in Bowd Jct at 970-845-7347 at least 48 hours prior to commencing construction within the State Highway right of way.~~

The person signing as the permittee must be the owner or legal representative of the property served by the permitted access and have full authority to accept the permit and its terms and conditions.

Permittee (x) *Tom C. Stone* Date 10/22/01

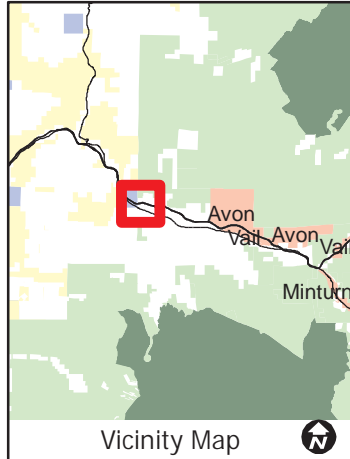
Tom C. Stone, Chairman, Board of County Commissioners

This permit is not valid until signed by a duly authorized representative of the Department.

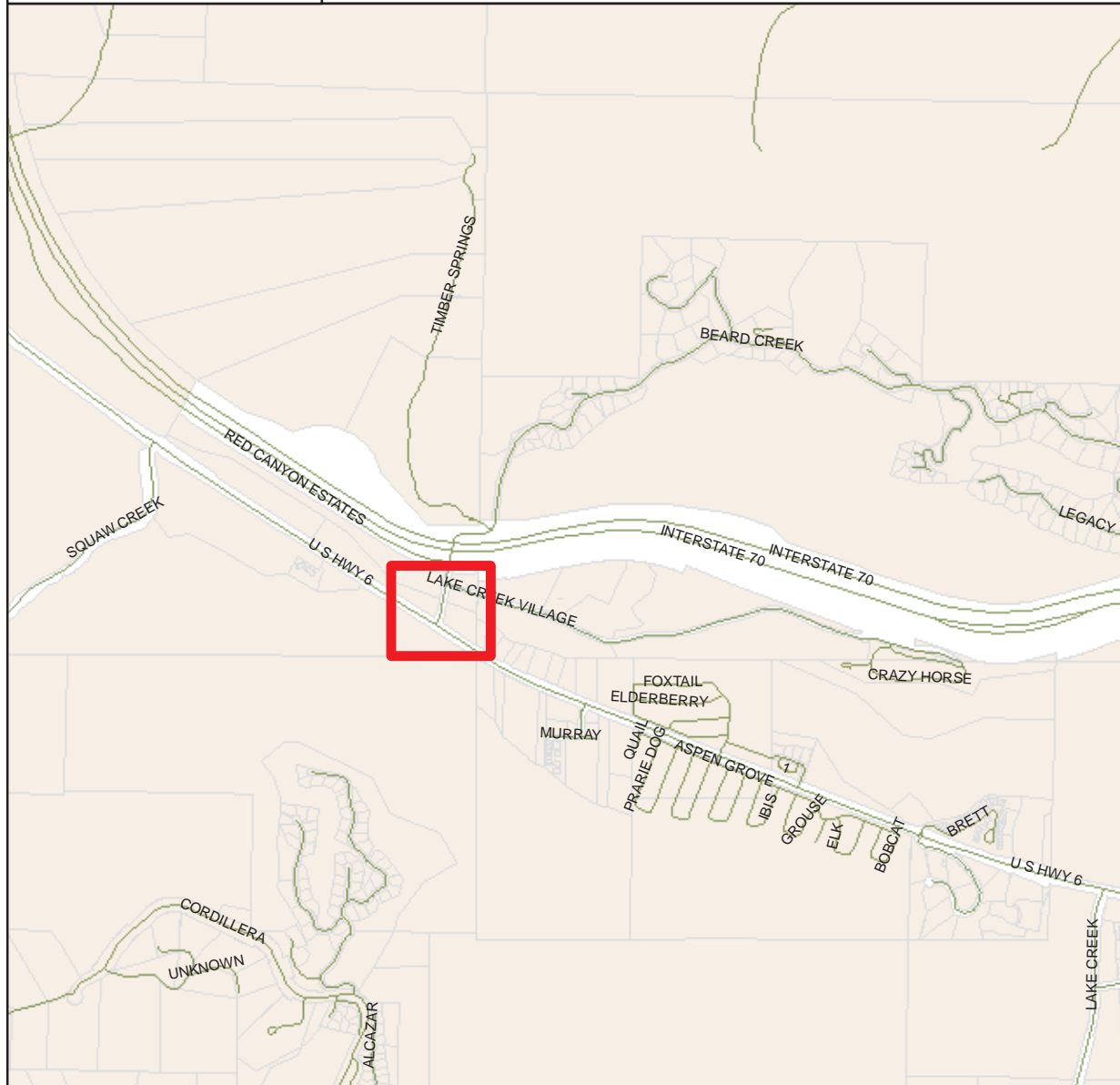
COLORADO DEPARTMENT OF TRANSPORTATION

By (x) *Jim Smith* Date (of Issue) *October 23, 2001* Title Access Manager

Copy Distribution: Required: 1. Region 2. Applicant 3. Staff Access Section Make copies as necessary for: Local Authority MTCE Patrol Inspector Traffic Engineer Previous editions are obsolete and may not be used CDOT Form #101 #98



1. Single SB lane causes queuing issues with LT onto US6
2. Intersection not at 90 degree angle
3. No LT acceleration lane
4. Bridge is only access point for north side of Eagle River
5. Intersection/Bridge serves a critical facility, the Edwards WWTF
6. No pedestrian crossing
7. Preliminary traffic signal warrant analysis suggests that a signal is warranted



Area Map

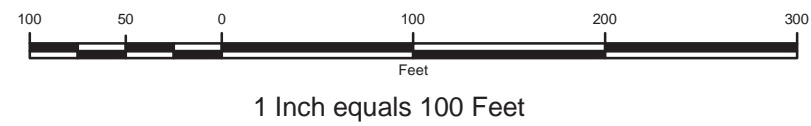


Detailed Map

US6 / Hillcrest Drive

Intersection Deficiency Analysis
11.15.2010

Revision History:



This map was created by the Eagle County Engineering Department. Use of this map should be for general purposes only. Eagle County does not warrant the accuracy of the data contained herein.



2010 TRAFFIC COUNT SUMMARY
Eagle County Colorado

Max of EQUIV		Year				
NAME	M.M.	2000	2002	2004	2006	2009
HILLCREST DR	0.01				2,106	
	0.01			3,029		
	0.02		3,143			
	0.10	3,243				3,857

Greg Schroeder

From: Ben Gerdes
Sent: Wednesday, December 01, 2010 1:24 PM
To: Greg Schroeder
Subject: FW: Hillcrest Drive Signal Warrant
Attachments: PC-Warrants for Windows Report.pdf

From: Znamenacek, Zane [mailto:Zane.Znamenacek@dot.state.co.us]
Sent: Tuesday, October 12, 2010 8:19 AM
To: Ben Gerdes
Subject: RE: Hillcrest Drive Signal Warrant

Ben,

From using the numbers I found in the Eagle River Meadows TIA report, it appears as though the Hillcrest Dr intersection does meet the peak hour warrant for signalization. See attached. Obviously we would need to look at this location closer before permitting a signal, but it does look like the potential is there.

-Zane

From: Ben Gerdes [mailto:Ben.Gerdes@eaglecounty.us]
Sent: Thursday, October 07, 2010 4:28 PM
To: Znamenacek, Zane
Subject: Hillcrest Drive Signal Warrant

Zane,

Has there been a signal warrant done for US 6 and Hillcrest Drive in Edwards? If not, could we request that this intersection be looked at?

Thanks, Ben

Benjamin Gerdes, P.E.
Senior Project Engineer
Eagle County Government
970.328.3560
ben.gerdes@eaglecounty.us
www.eaglecounty.us

Organization Title Goes Here

Heading Second Line

Heading Third Line

Study Name : HillcrestDr

Study Date : 10/12/10

Page No. : 1

Signal Warrants - Summary

Major Street Approaches

Northbound:

Number of Lanes: 1

Approach Speed: 41

Total Approach Volume: 1,170

Southbound:

Number of Lanes: 1

Approach Speed: 45

Total Approach Volume: 1,070

Minor Street Approaches

Eastbound:

Number of Lanes: 1

Total Approach Volume: 0

Westbound:

Number of Lanes: 1

Total Approach Volume: 565

Warrant Summary (Rural values apply.)

Warrant 1 - Minimum Vehicular Volume	Not Satisfied
Required volumes reached for 2 hours, 8 are needed	
Warrant 2 - Interruption of Continuous Traffic	Not Satisfied
Required volumes reached for 2 hours, 8 are needed	
Warrant 3 - Minimum Pedestrian Volume	Not Satisfied
Required 4 Hr pedestrian volume reached for 0 hour(s) and the single hour volume for 0 hour(s)	
Warrant 4 - School Crossing	Not Satisfied
Number of gaps > .0 seconds (0) exceeds the number of minutes in the crossing period (0).	
Warrant 5 - Progressive Movement	Not Satisfied
No adjacent coordinated signals are present	
Warrant 6 - Accident Experience	Not Satisfied
Number of accidents (-1) is less than minimum (5). Volume minimums are not met.	
Warrant 7 - Systems Warrant	Not Satisfied
Major Route conditions not met. One or more volume requirement met.	
Warrant 8 - Combination of Warrants	Not Satisfied
Required volumes reached for 2 hours, 8 are needed	
Warrant 9 - Four Hour Volumes	Not Satisfied
Number of hours (2) volumes exceed minimum < minimum required (4).	
Warrant 10 - Peak Hour Delay	Not Satisfied
Total approach volumes and delays on minor street do not exceed minimums for any hour.	
Warrant 11 - Peak Hour Volume	Satisfied
Volumes exceed minimums for at least one hour.	
Warrant 12 - Volume Warrant for Traffic Actuated Signals	Not Evaluated

Organization Title Goes Here

Heading Second Line

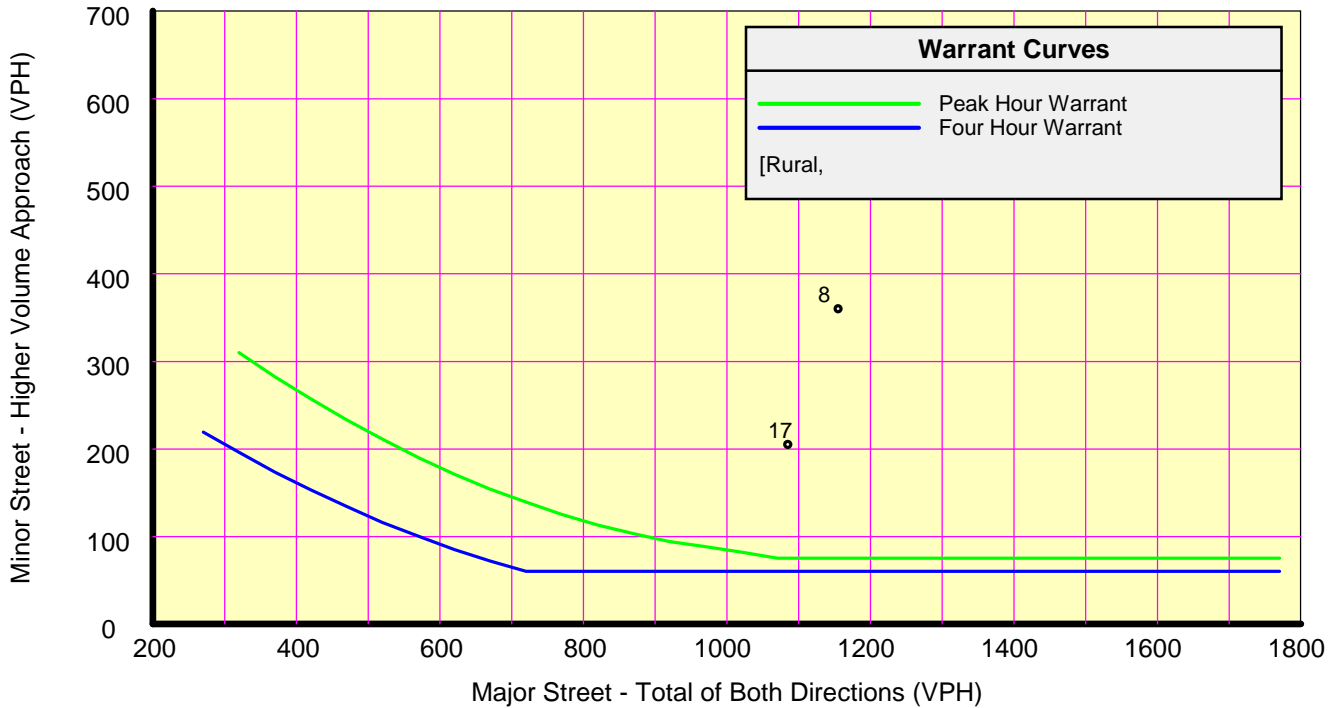
Heading Third Line

Study Name : HillcrestDr

Study Date : 10/12/10

Page No. : 2

Signal Warrants - Summary



Analysis of 8-Hour Volume Warrants (Maj Crit = Major Criteria, Min Crit = Minor Criteria):

Hour Begin	Major Total	Higher Minor Vol	Dir	Warrant 1			Warrant 2			Warrant 8		
				Major Crit	Minor Crit	Meets?	Major Crit	Minor Crit	Meets?	Major Crit	Minor Crit	Meets?
00:00	0	0	EB	350-No	105-No	---	525-No	52-No	---	420-No	84-No	---
01:00	0	0	EB	350-No	105-No	---	525-No	52-No	---	420-No	84-No	---
02:00	0	0	EB	350-No	105-No	---	525-No	52-No	---	420-No	84-No	---
03:00	0	0	EB	350-No	105-No	---	525-No	52-No	---	420-No	84-No	---
04:00	0	0	EB	350-No	105-No	---	525-No	52-No	---	420-No	84-No	---
05:00	0	0	EB	350-No	105-No	---	525-No	52-No	---	420-No	84-No	---
06:00	0	0	EB	350-No	105-No	---	525-No	52-No	---	420-No	84-No	---
07:00	0	0	EB	350-No	105-No	---	525-No	52-No	---	420-No	84-No	---
08:00	1,155	360	WB	350-Yes	105-Yes	Both	525-Yes	52-Yes	Both	420-Yes	84-Yes	Both
09:00	0	0	EB	350-No	105-No	---	525-No	52-No	---	420-No	84-No	---
10:00	0	0	EB	350-No	105-No	---	525-No	52-No	---	420-No	84-No	---
11:00	0	0	EB	350-No	105-No	---	525-No	52-No	---	420-No	84-No	---
12:00	0	0	EB	350-No	105-No	---	525-No	52-No	---	420-No	84-No	---
13:00	0	0	EB	350-No	105-No	---	525-No	52-No	---	420-No	84-No	---
14:00	0	0	EB	350-No	105-No	---	525-No	52-No	---	420-No	84-No	---
15:00	0	0	EB	350-No	105-No	---	525-No	52-No	---	420-No	84-No	---
16:00	0	0	EB	350-No	105-No	---	525-No	52-No	---	420-No	84-No	---
17:00	1,085	205	WB	350-Yes	105-Yes	Both	525-Yes	52-Yes	Both	420-Yes	84-Yes	Both
18:00	0	0	EB	350-No	105-No	---	525-No	52-No	---	420-No	84-No	---
19:00	0	0	EB	350-No	105-No	---	525-No	52-No	---	420-No	84-No	---
20:00	0	0	EB	350-No	105-No	---	525-No	52-No	---	420-No	84-No	---
21:00	0	0	EB	350-No	105-No	---	525-No	52-No	---	420-No	84-No	---
22:00	0	0	EB	350-No	105-No	---	525-No	52-No	---	420-No	84-No	---
23:00	0	0	EB	350-No	105-No	---	525-No	52-No	---	420-No	84-No	---