

DEPARTMENT OF TRANSPORTATION

Traffic & Safety Section

222 South 6th Street, Room 100
Grand Junction, Colorado 81501
(970) 683-6287 Fax: 970-683-6290



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	Town of Palisade
Contact Person	Tim Sarmo
Title	Town Administrator
Email	tsarmo@townofpalisade.org
Phone Number	(970) 464-5602
Mailing Address	PO Box 128 Palisade, CO 81526

Intersection Location

Highway (example, US 50)	US 6 & 24		
Highway Milepost	West of Milepost 43		
Local Cross Street name	37.1 Road to Palisade High School Property line		
Is the Cross Street (check one)	Public ROW X	Private Drive	Other

Palisade's 3rd Priority Intersection
Intersection at 37.1 Road and US Hwy 6

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Intersection Information

Type of Intersection (check one)	Signal	Minor St Stop X	All Way Stop	Other:
Nearby Driveways	Yes: Frontage Road to North at 37.1 Road Distance between intersections: Frontage Road 110 feet to east and south Driveway 170 feet west and north Driveway 340 feet west and south			No
Traffic Mix (check all that apply)	Trucks X	Pedestrians X	Bicycles X	Other:
Intersection Issues	Please describe the types of safety or operational issues at the intersection.			
Safety Issues:	<ul style="list-style-type: none"> • Traffic flow from multiple directions: East and west from both frontage roads as well as Highway 6 creating conflicts. • No left turn lanes • No bike lanes • Difficult pedestrian crossing 			
Operational Issues:	<ul style="list-style-type: none"> • Reduced traffic flow due to left turns • Confusing and conflicting traffic flow from multiple points • Non-multimodal 			

Intersection Deficiencies

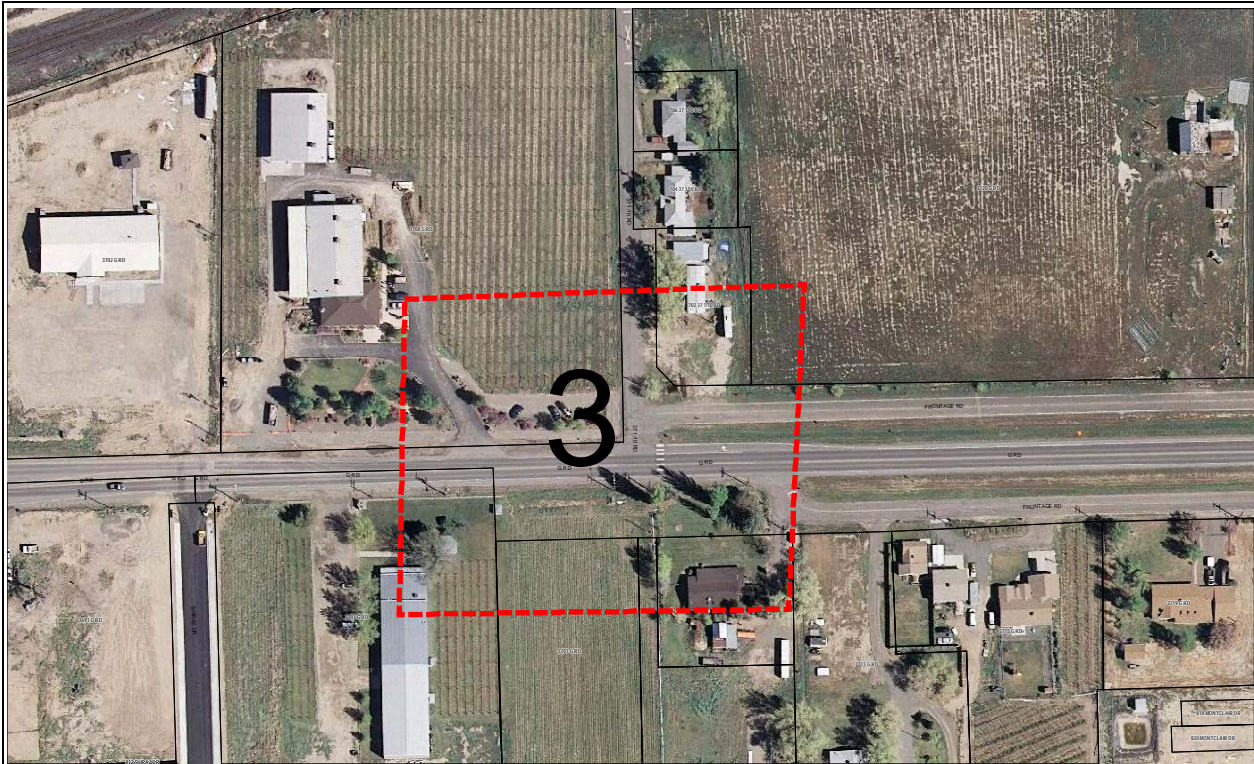
Please provide a brief description of the existing intersection deficiencies and associated safety concerns, including time of the concerns (day of the week/hour(s)/seasons/time/weekday/weekend/holiday/etc):

- Intersection is deficient in its ability to smoothly pass traffic through the intersection with minimal interruption especially Monday through Friday from 7:00 am to 8:30 am, from 11:00 am to 1:00 pm and from 3:00 pm to 6:00 pm.
- Frontage roads and bank driveway contribute to distractions and confusion
- The intersection is unsafe for pedestrian crossing and is utilized by secondary school children.



Mitigation

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



This intersection with 37.1 Road running north and US Hwy 6 running east/west would be best served by a roundabout. A roundabout would solve the existing conflicts with the frontage road and the need to provide for a pedestrian crossing at this intersection.

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

No

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

None at this time.

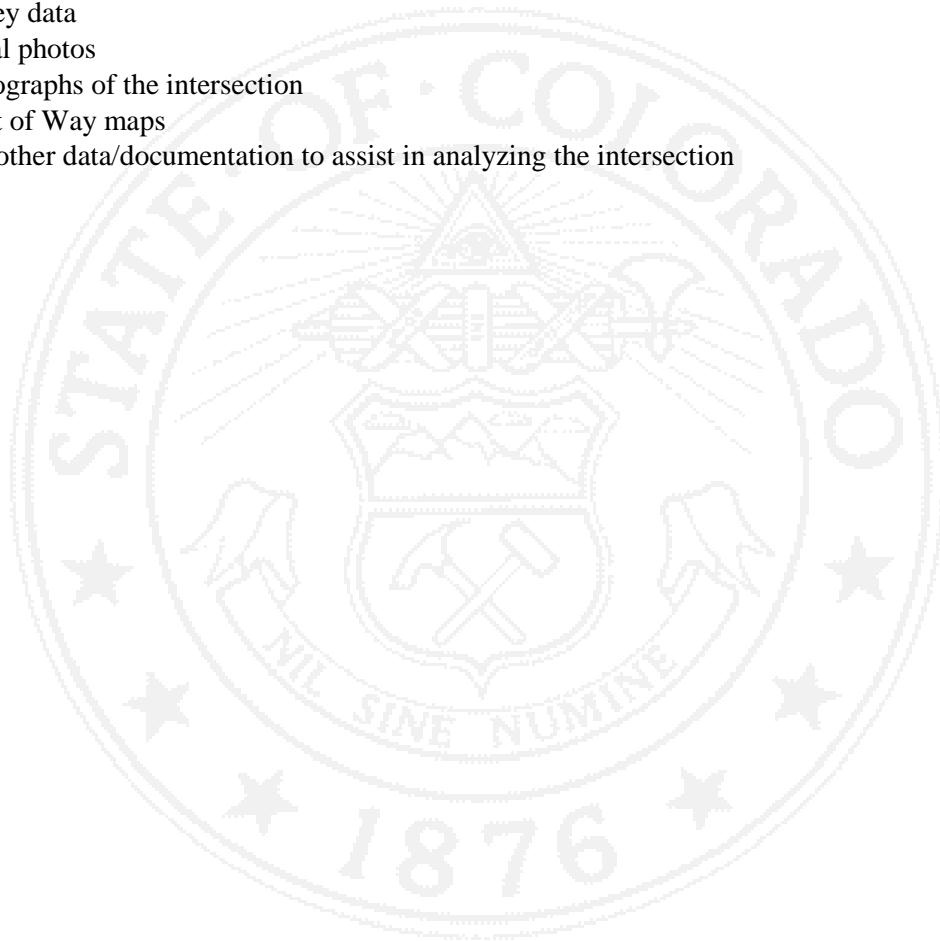
Does this intersection have impacts to adjacent intersections, roadways, etc? If yes, please explain:

Yes it does. State Highway 6 through this section of Palisade has frontage road which as designed adds additional conflict points to the intersection and would be better handled with a roundabout at this location.

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



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Region 3 Intersection Analysis and Prioritization
Intersection Application

Requesting Agency

Agency Name	Town of Palisade
Contact Person	Tim Sarmo
Title	Town Administrator
Email	tsarmo@townofpalisade.org
Phone Number	(970) 464-5602
Mailing Address	PO Box 128 Palisade, CO 81526

Intersection Location

Highway (example, US 50)	US 6 & 24		
Highway Milepost	West of Milepost 43		
Local Cross Street name	37.3 Road/Elberta Avenue		
Is the Cross Street (check one)	Public ROW X	Private Drive	Other

Palisade's 1st Priority Intersection
Elberta Avenue and US Hwy 6

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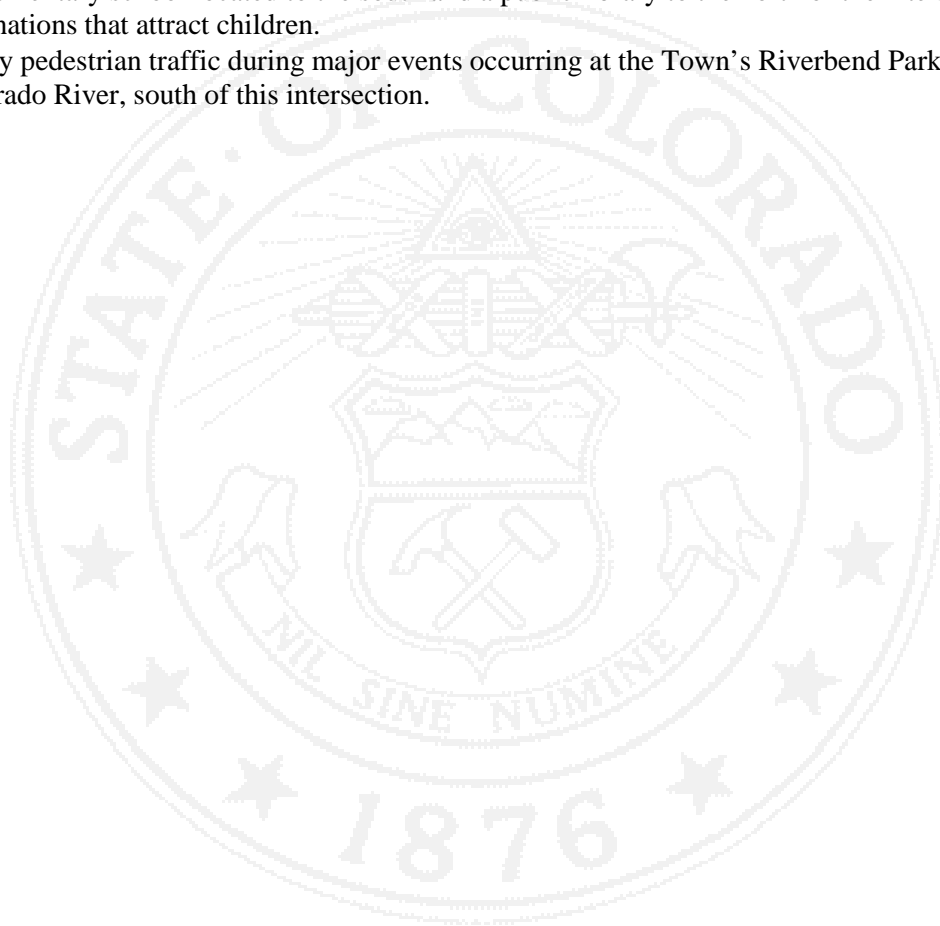
Intersection Information

Type of Intersection (check one)	Signal	Minor St Stop <input checked="" type="checkbox"/>	All Way Stop	Other:
Nearby Driveways	Yes: Frontage Road to the North and the South of Elberta. Distance between intersections: Bank Driveway 55 feet West			No
Traffic Mix (check all that apply)	Trucks <input checked="" type="checkbox"/>	Pedestrians <input checked="" type="checkbox"/>	Bicycles <input checked="" type="checkbox"/>	Other:
Intersection Issues	Please describe the types of safety or operational issues at the intersection.			
Safety Issues:	<ul style="list-style-type: none"> • Traffic flow from multiple directions: East and west from both frontage roads as well as Highway 6 creating conflicts. • No left turn lanes • No bike lanes • Difficult pedestrian crossing 			
Operational Issues:	<ul style="list-style-type: none"> • Reduced traffic flow due to left turns • Confusing and conflicting traffic flow from multiple points • Non-multimodal • Closely spaced interesections 			

Intersection Deficiencies

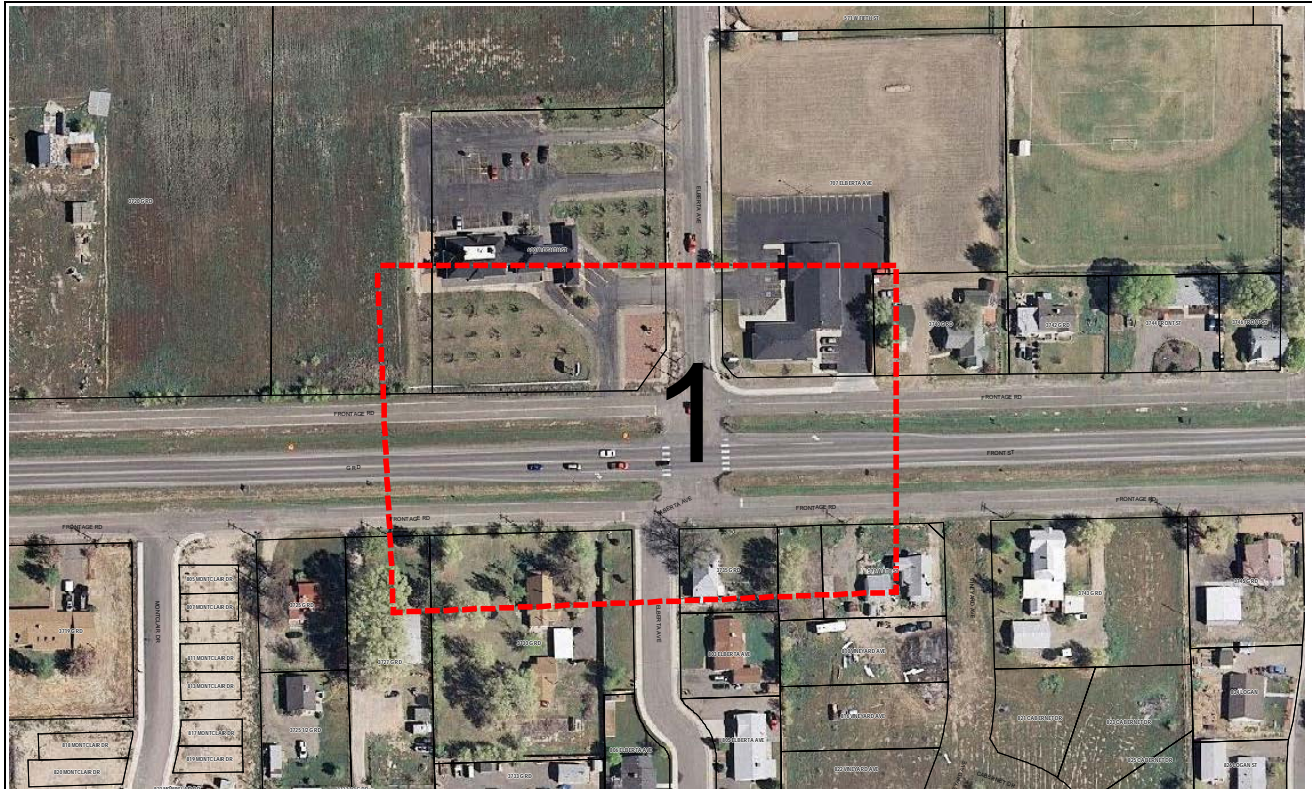
Please provide a brief description of the existing intersection deficiencies and associated safety concerns, including time of the concerns (day of the week/hour(s)/seasons/time/weekday/weekend/holiday/etc):

- Intersection is deficient in its ability to smoothly pass traffic through the intersection with minimal interruption especially Monday through Friday from 7:00 am to 8:30 am and from 3:00 pm to 6:00 pm.
- Frontage roads and bank driveway contribute to distractions and confusion
- The intersection is unsafe for pedestrian crossing and is utilized by both primary and secondary aged children.
- There is a need to shorten the crosswalks and solve the problem of closely spaced intersections. There is an elementary school located to the south and a public library to the north of the intersection, both destinations that attract children.
- Heavy pedestrian traffic during major events occurring at the Town's Riverbend Park located along the Colorado River, south of this intersection.



Mitigation

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



This intersection with Elberta Avenue running north/south and US Hwy 6 running east/west would be best served by a roundabout. A roundabout would solve the existing conflicts with the frontage road and the need to provide for a pedestrian crossing at this intersection.

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

No

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

None at this time.

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

Yes it does. State Highway 6 through this section of Palisade has frontage road which as designed adds additional conflict points to the intersection and would be better handled with a roundabout at this location.

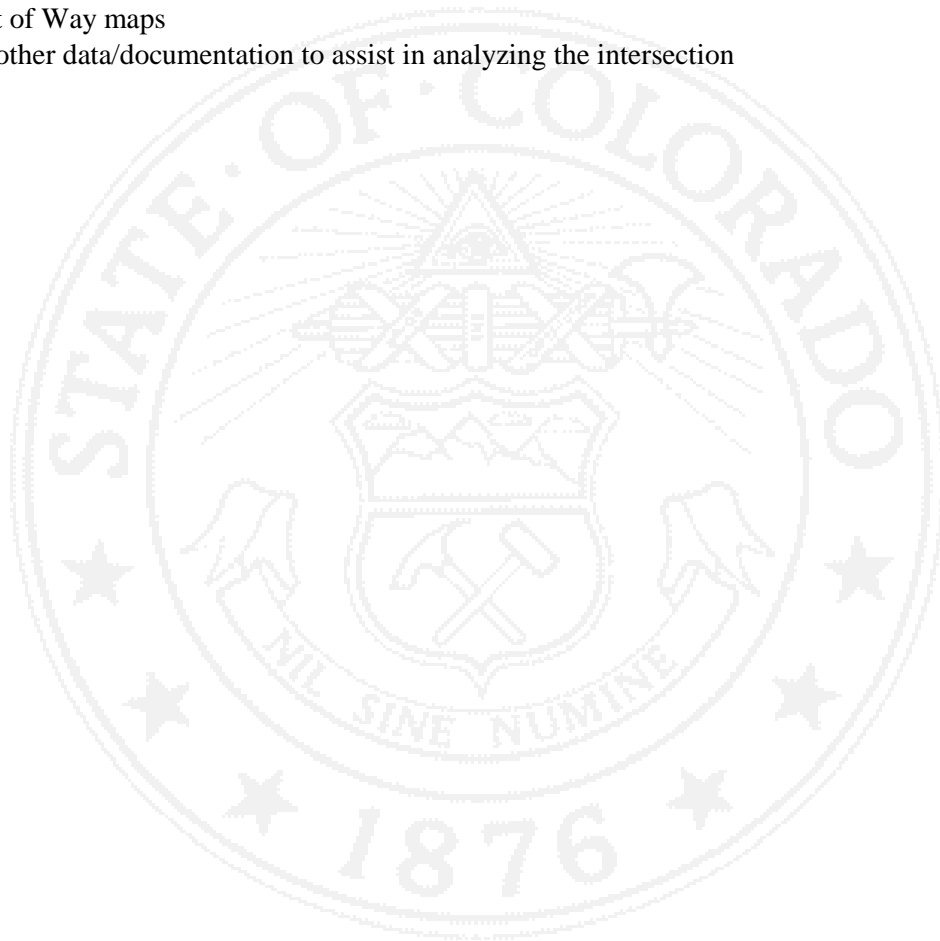
Additional Information

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

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Traffic & Safety Section

- 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
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Contact Person	Tim Sarmo
Title	Town Administrator
Email	tsarmo@townofpalisade.org
Phone Number	(970) 464-5602
Mailing Address	PO Box 128 Palisade, CO 81526

Intersection Location

Highway (example, US 50)	US 6 & 24		
Highway Milepost	West of Milepost 43		
Local Cross Street name	Iowa Avenue		
Is the Cross Street (check one)	Public ROW X	Private Drive	Other

Palisade's 2nd Priority Intersection
Intersection at Iowa and US Hwy 6

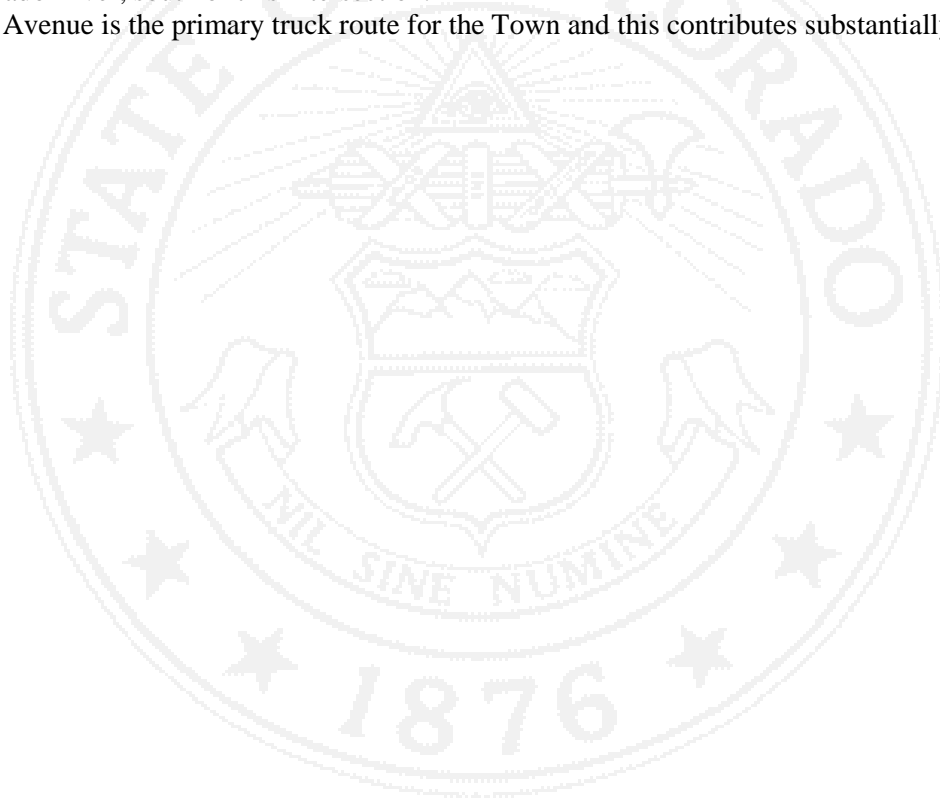
Intersection Information

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 X	Pedestrians X	Bicycles X	Other:
Intersection Issues	Please describe the types of safety or operational issues at the intersection.			
Safety Issues:	<ul style="list-style-type: none"> • Traffic flow from multiple directions, especially east from north frontage road as well as Highway 6 creating conflicts. • No left turn lanes • No bike lanes • Difficult pedestrian crossing • Heavy truck traffic 			
Operational Issues:	<ul style="list-style-type: none"> • Reduced traffic flow due to left turns • Confusing and conflicting traffic flow from multiple points • Non-multimodal • Primary truck route • Closely spaced intersections 			

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):

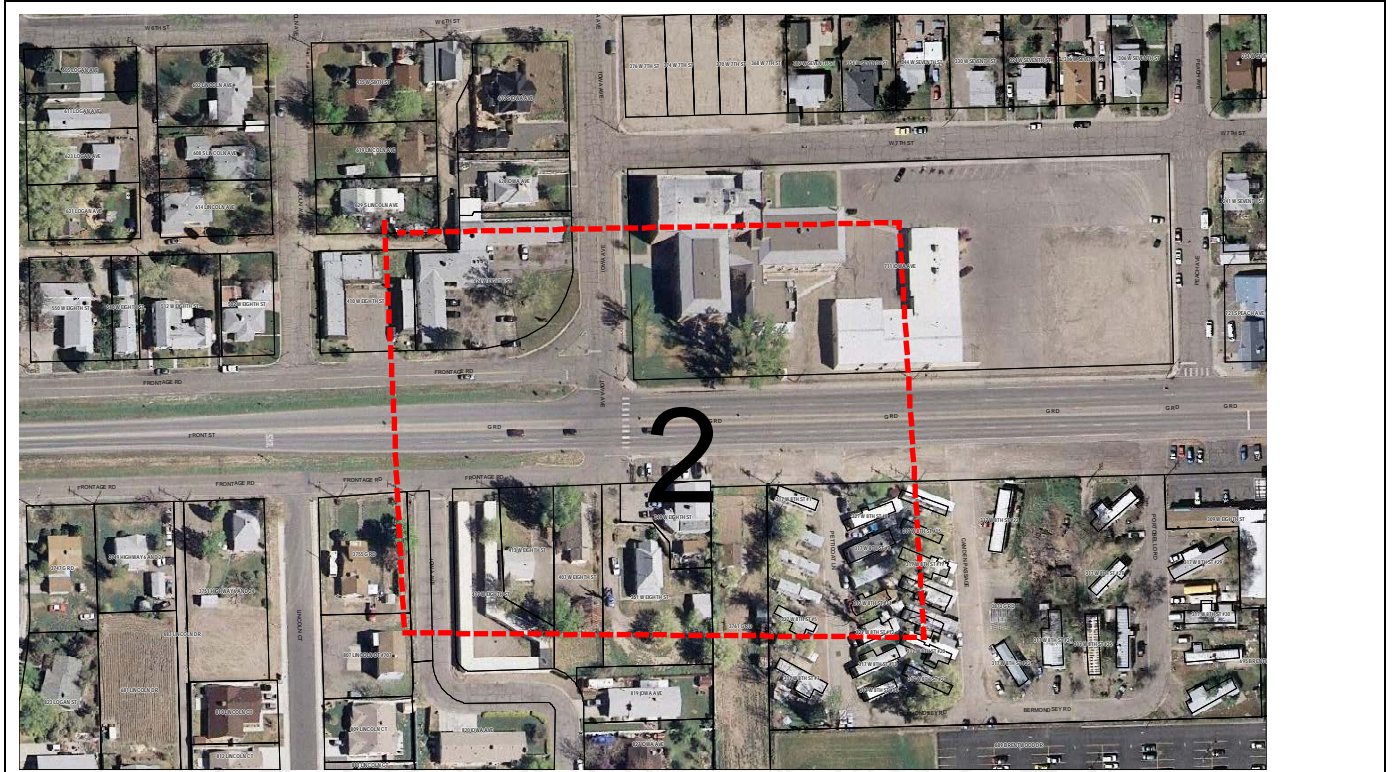
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- Frontage roads contribute to distractions and confusion.
- The intersection is unsafe for pedestrian crossing and is utilized by both primary and secondary aged children.
- There is a need to shorten the crosswalks and solve the problem of closely spaced intersections. There is an elementary school located to the south and a public library to the north of the intersection, both destinations that attract children.
- Heavy pedestrian traffic during major events occurring at the Town's Riverbend Park located along the Colorado River, south of this intersection.
- Iowa Avenue is the primary truck route for the Town and this contributes substantially to traffic volumes.



Mitigation

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

Priority 2
Intersection at Iowa and US Hwy 6



This intersection with Iowa Avenue running north/south and US Hwy 6 running east/west would be best served by a roundabout. A roundabout would solve the existing conflicts with the frontage road and the need to provide for a pedestrian crossing at this intersection.

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

No

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

None at this time.

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

Yes it does. State Highway 6 through this section of Palisade has frontage road which as designed adds additional conflict points to the intersection and would be better handled with a roundabout at this location.

Additional Information

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

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