# Planning and Zoning Commission <br> Monday, September 19, 2022 at 6:00 pm <br> PLEASE SILENCE ALL CELL PHONES AND ELECTRONIC DEVICES. THANK YOU 

## 1. Meeting Information

207 Muegge Way, Bennett, CO 80102
For a live stream of the meeting use the information below:
https://us06web.zoom.us/j/84141319297?
pwd=WEpWemEvTHRBaXY3R1dkZEtKNzRnUT09

Meeting ID: 84141319297

Passcode: 918843
2. Call to Order

Chair
a. Roll Call
3. Approval of Agenda

Chair
4. Consent Agenda

Chair
a. July 18, 2022 - Regular Meeting Minutes

## Attachments:

- July 18, 2022 - Regular Meeting Minutes (planning-and-zoning-commissi on_minutes_2022-07-18_171007.pdf)


## Public Comments on Items Not on the Agenda

The Planning and Zoning Commission welcomes you. Thank you for joining us for our Town of Bennett Planning and Zoning Meeting. If you are not speaking, we ask that you please mute your microphone. For public comment please sign up on the provided sheet or in the chat box. If you are on the phone, once we get through the sign-up sheet and chat box we will call for any other comments for items not on the agenda.
to your comments this evening, rather they may take your comments and suggestions under advisement and provide direction to the appropriate member of Town staff for follow-up. Thank you.

## Regular Business

## 5. Public Hearing

a. Case No. 22.11 - The Shops at Bennett Subdivision, Amendment No. 1 Final Plat
Resolution No. 2022-17 - A Resolution Recommending Approval of A Final Plat for The Shops at Bennett Subdivision, Amendment No. 1
Steve Hebert, Planning Manager

## Attachments:

- Public Hearing Script (0_-_Public_Hearing_Script.PC.pdf)
- Staff Report - Case No. 22.11 - The Shops at Bennett Subdivision, A mendment No. 1 Final Plat (Shops_at_Bennett_Sub_Amend_No1_P_Z_Staff Report_09_19_22_FINAL.pdf)
- Staff PowerPoint Presentation (1_Shops_at_Bennett_Amnd_1_P_Z_Presen tation_09_19_22_FINAL.pdf)
- Land Use Application (2_SAB2-Application.pdf)
- Applicant's Letter of Intent (3_SAB2-Letter_of_Intent.pdf)
- Proposed Final Plat (4_SAB2-plat.pdf)
- Traffic Impact Analysis (5_SAB2-traffic_impact_analysis.pdf)
- Combined Referral Agency Responses (6_CombinedReferralComments_S hops_at_Bennett_Amend_1.pdf)
- Resolution No. 2022-17-A Resolution Recommending Approval of A Final Plat for the Shops at Bennett Subdivision, Amendment No. 1 (S hops_at_Bennett_AmendNo1_FP.PCReso_2022-17.pdf)
- Suggested Motion (Suggested_Motion.pdf)

6. Action/Discussion Item
7. Commissioner Comments/Reports
8. Adjournment

Contact: Christina Hart (chart@bennett.co.us $13036443249 \times 1001$ ) | Agenda published on 09/14/2022 at 11:44 AM

# Planning and Zoning Commission Minutes 

## Monday, July 18, 2022 at 6:00 pm <br> PLEASE SILENCE ALL CELL PHONES AND ELECTRONIC DEVICES. THANK YOU

## 1. Meeting Information

207 Muegge Way, Bennett, CO 80102
2. Call to Order

Chair
a. Roll Call

Minutes:
Present:
Martin Metsker
Gino Childs
Wayne Clark - Excused
James Delaney
Grider Lee
Scott Smith - Excused
Rachel Connor

## Staff Present:

Steve Hebert, Planning Manager
Chad Bunger, Community and Economic Development Director
Dan Giroux, Town Engineer
Savannah Vickery, Secretary
Mike Heugh, Traffic Engineer

## Public Present:

Jerry Walls
Kayle Walls
Lindsy Walls
Mark Zuber
Jerry Yokun

John Vitella
Kurt Rotering
Chris McGranahan
Gary Walter
Paul Shoukas
Steve Walters

## 3. Approval of Agenda

Chair

## Minutes:

COMMISSIONER CONNOR MOTIONED, COMMISSIONER LEE SECONDED to approve the agenda as presented:
Ayes: Childs, Connor, Delaney, Lee, Metsker
Nays: None
Absent: Clark, Smith
Martin Metsker, Chairman, declared the motion carried by unanimous vote.

## 4. Consent Agenda

Chair
a. June 27, 2022 - Regular Meeting Minutes

Minutes:
COMMISSIONER LEE MOVED, COMMISSIONER DELANEY SECONDED to approve the consent agenda. The voting was as follows:
Ayes: Delaney, Lee, Metsker, Childs, Connor
Nays: None
Absent: Clark, Smith
Martin Metsker, Chairman, declared the motion carried by unanimous vote. A. Action: Approval of June 27, 2022 Regular Meeting Minutes

## Public Comments on Items Not on the Agenda

The Planning and Zoning Commission welcomes you. Thank you for joining us for our Town of Bennett Planning and Zoning Meeting. If you are not speaking, we ask that you please mute your microphone. For public comment please sign up on the provided sheet or in the chat box. If you are on the phone, once we get through the sign-up sheet and chat box we will call for any other comments for items not on the agenda.

Your comments will be limited to three (3) minutes. The Commission may not respond to your comments this evening, rather they may take your comments and suggestions under advisement and provide direction to the appropriate member of Town staff for follow-up. Thank you.
a. Case No. 22.22-Love's Filing $\mathbf{1}$ Subdivision Final Plat

Resolution No. 2022-12 - A Resolution Recommending Approval of the Final Plat for Love's Filing 1

## Minutes:

Martin Metsker, Chairman, called the matter of Case 22.22 - Love's Subdivision Final Plat to order.

The public hearing was opened at 6:04 p.m.

Savannah Vickery, Secretary, stated in accordance with the Colorado state statute, it was duly posted and published in the Eastern Colorado News on June 24, 2022. Legal \#2663.

Steve Hebert, Planning Manager, presented the combined reports for the Love's Subdivision Final Plat and Conditional Use Permit for expanded parking.

## PUBLIC COMMENTS

There were no public comments provided.

The public hearing was closed at 6:57 p.m.

## COMMISSIONER CONNOR MOVED, COMMISSIONER DELANEY SECONDED

to recommend approval of Resolution No. 2022-12 - A Resolution
Recommending Approval of the Final Plat for Love's Filing 1. The voting was as follows:

Ayes: Metsker, Connor, Delaney
Nays: Childs, Lee
Absent: Clark, Smith
Martin Metsker, Chairman, declared the motion passed 3 to 2 .
b. Case No. 22.24-Love's Conditional Use Permit for Expanded Truck Parking
Resolution No. 2022-13 - A Resolution Recommending Approval of Love's Conditional Use Permit for Expanded Truck Parking.

## Minutes:

Martin Metsker, Chairman, called the matter of Case 22.24 - Love's Conditional Use Permit for Expanded Truck Parking to order.

The public hearing was opened at 7:03 p.m.

Savannah Vickery, Secretary, stated in accordance with the Colorado state statute, it was duly posted and published in the Eastern Colorado News on June 24, 2022. Legal \#2663.

Steve Hebert, Planning Manager, referred to the previous combined presentation for Love's Subdivision Final Plat and Conditional Use Permit for Extended Parking.

## PUBLIC COMMENTS

There were no public comments provided.

The public hearing was closed at 7:06 p.m.

## COMMISSIONER DELANEY MOVED, COMMISSIONER CONNOR SECONDED

to recommend approval of Resolution No. 2022-13 - A Resolution
Recommending Approval of Love's Conditional Use Permit for Expanded Truck Parking. The voting was as follows:
Ayes: Metsker, Connor, Delaney
Nays: Childs, Lee
Absent: Clark, Smith
Martin Metsker, Chairman, declared the motion passed 3 to 2.

## c. Case No. 22.12-Walls Subdivision Final Plat

Resolution No. 2022-14 - A Resolution Recommending Approval of a Final Plat for Walls Subdivision.

## Minutes:

Martin Metsker, Chairman, called the matter of Case 22.12 - Walls Subdivision Final Plat to order.

The public hearing was opened at 7:08 p.m.

Savannah Vickery, Secretary, stated in accordance with the Colorado state statute, it was duly posted and published in the Eastern Colorado News on July 1, 2022. Legal \#2666.

Steve Hebert, Planning Manager, presented the combined presentation for the proposed Final Plat and proposed Rezoning for the property.

## PUBLIC COMMENTS

There were no public comments presented.

The public hearings were closed at 7:35 p.m.

## COMMISSIONER CONNOR MOVED, COMMISSIONER LEE SECONDED to

recommend approval of Resolution No. 2022-14 - A Resolution Recommending
Approval of a Final Plat for Walls Subdivision. The voting was as follows:
Ayes: Metsker, Childs, Connor, Delaney, Lee

Absent: Clark, Smith
Martin Metsker, Chairman, declared the motion carried by unanimous vote.

## d. Case No. 22.13-Walls Industrial Rezoning

Resolution No. 2022-15 - A Resolution of the Bennett Planning and Zoning Commission Recommending Approval of a Rezoning for Lot 1 of Walls Subdivision.

## Minutes:

Martin Metsker, Chairman, called the matter of Case 22.13 - Walls Industrial Rezoning to order.

The public hearing was opened at 7:09 p.m.

Savannah Vickery, Secretary, stated in accordance with the Colorado state statute, it was duly posted and published in the Eastern Colorado News on July 1, 2022. Legal \#2666.

Steve Hebert, Planning Manager, presented the combined presentation for the proposed Rezoning and the Final Plat for the property.

## PUBLIC COMMENTS

There were no public comments presented.

The public hearings were closed at 7:35 p.m.

## COMMISSIONER DELANEY MOVED, COMMISSIONER LEE SECONDED to

 recommend approval of Resolution No. 2022-15 - A Resolution Recommending Approval of a Rezoning for Lot 1 of Walls Subdivision. The voting was as follows:Ayes: Metsker, Childs, Connor, Delaney, Lee
Nays: None

## Absent: Clark, Smith

Martin Metsker, Chairman, declared the motion carried by unanimous vote.
e. Recommended Updates to Chapter 16 of the Bennett Municipal Code Related to Telecommunications Facilities
Resolution No. 2022-16 - A Resolution Recommending Approval of an Ordinance Amending Chapter 16 of the Bennett Municipal Code Concerning Wireless Communication Facilities

## Minutes:

Martin Metsker, Chairman, called the matter of Recommended Updates to Chapter 16 of the Bennett Municipal Code Related to Telecommunications Facilities to order.

The public hearing was opened at 7:38 p.m.

1, 2022. Legal \#2667.

Steve Hebert, Planning Manager, presented the proposed updates to Chapter 16 of the Municipal code related to Telecommunications Facilities.

## PUBLIC COMMENTS

There were no public comments presented.

The public hearing was closed at 7:53 p.m.

## COMMISSIONER LEE MOVED, COMMISSIONER DELANEY SECONDED to

 recommend approval of Resolution No. 2022-16 - A Resolution Recommending Approval of a an Ordinance Amending Chapter 16 of the Bennett Municipal Code Concerning Wireless Communication Facilities. The voting was as follows:Ayes: Metsker, Childs, Connor, Delaney, Lee
Nays: None
Absent: Clark, Smith
Martin Metsker, Chairman, declared the motion carried by unanimous vote.

## 6. Action/Discussion Item

a. Case No. 22.21-Muegge Farms Filings 5 \& 6 Sketch Plan

## Minutes:

Steve Hebert, Planning Manager, presented Case No. 22.21 - Muegge Farms
Filings 5 \& 6 Sketch Plan. The applicant also provided a presentation.
No action was needed.

## 7. Commissioner Comments/Reports

8. Adjournment

## Minutes:

COMMISIONER LEE MOVED, COMISSIONER DELANEY SECONDED to adjourn the meeting. The meeting was adjourned at 8:13 p.m. Voting was as follows:
Ayes: Metsker, Childs, Connor, Delaney, Lee
Nays: None
Absent: Clark, Smith
Martin Metsker, Chairman, declared the motion carried by unanimous vote.
Minutes Approved:

Martin Metsker, Chair

Christina Hart, Secretary

## QUASI-JUDICIAL PUBLIC HEARING SCRIPT <br> (PLANNING COMMISSION)

CHAIR: I will now open the public hearing on the following application: Case 22.11 - The Shops at Bennett Subdivision, Amendment No. 1 Final Plat.

The purpose of the hearing is to provide a public forum for all interested parties who wish to comment on an application before the Commission. If you wish to speak please write your name and address on the signup sheet or in the chat box and you will be called on.

The Procedure for the public hearing will be as follows:
FIRST, there will be a presentation by the Town staff.
NEXT, we will have a presentation by the applicant.
After these two presentations we will allow people who signed up to speak for up to 3 minutes each. Please DO NOT REPEAT points made by others. It is fine to say, "I agree with the previous speaker's comments". Please direct your comments to the Commission, not the applicant or Town staff.

After receiving public comments, we will allow the applicant an opportunity to respond.
NEXT, the Planning Commission members may ask questions of anyone who testified.
I will then close the public hearing and no further testimony or other evidence will be received. The Planning Commission will discuss the matter and may take some kind of action.

Public hearings are recorded for the public record. All testimony must be presented, after you give your full name and address.

CHAIR: Do we have proper notification?
[Secretary to confirm on record notice has been provided]
Do any Commission members have any disclosures?
[Commissioners to disclose conflicts of interests, ex parte contacts, etc]
Town staff, please introduce the applicant and provide your staff report.
[Staff presentation]
Will the applicant or the applicant's representative present the application?

## [Applicant presentation]

Do any of the Commissioners have questions of the applicant or Town staff?
[Question and Answer]
CHAIR: I will now open the public comment portion of the public hearing. For those wishing to speak, please clearly state your name and address for the record.

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Has anyone signed up to speak at this public hearing?

Is there any interested party in the audience that has not signed up but who wishes to speak regarding the application?

## [Additional public comment]

If there is no more public comment, I will now close the public comment portion of the public hearing.
CHAIR: Does the applicant wish to respond to any of the comments?

## [Opportunity for applicant to provide any rebuttal evidence]

CHAIR: Before we turn to Commissioner questions and deliberation, I want to state that the documents included within the record for this public hearing include all application materials submitted by the applicant; all materials included in the Planning Commission packets; any PowerPoint or other presentations given tonight; all written referral and public comments received regarding the application; the public comment sign-up sheet; the public posting log and photographs of the notice, and the Town's subdivision and zoning ordinances and other applicable regulations. Does anyone have any objection to inclusion of these items in the record?

CHAIR: I will now close the public hearing and the Planning Commission members will deliberate on the evidence presented. During deliberations, Commission members may ask questions of Town staff, but no further public comment or other testimony or evidence will be received.

Who would like to begin?
Who is next?
Any other questions or comments
[If anyone believes the applicable criteria have not been met, then please explain why so we have those reasons for the record.]

CHAIR: We have a draft Resolution in front of us and I would entertain a motion.
We have a motion on the floor by Commissioner $\qquad$ and a second by Commissioner $\qquad$ to approve Planning and Zoning Commission Resolution No. 2022-17.

May we have a Roll-Call vote?
Motion carries/fails.

TO: Members of the Planning and Zoning Commission
FROM: Steve Hebert, Planning Manager
DATE: September 19, 2022
SUBJECT: Case No. 22.11 - The Shops at Bennett Subdivision, Amendment No. 1 Final Plat
Applicant: Shops at Civic Center, LLC (Forrest Charlesworth)
Location: Near the Southwest Corner of Centennial Drive and 1 ${ }^{\text {st }}$ Street/CO Highway 79 and Northwest Corner of Bennett Avenue and 1st Street (See Vicinity Map)

Purpose: Final Plat to Subdivide 4.17 Acres Currently Zoned C- General Commercial

## Background

Case No. 22.11 is an application to amend the Shops at Bennett Subdivision Final Plat to further subdivide Tract A. The original Shops at Bennett Subdivision created Lot 1, which is now the Dollar General property. The original plat also created Tract A and Tract B. Tract A is 4.17 acres and was reserved for future subdivision. Tract B is now the detention pond, which serves the Shops at Bennett. The property is near the southwest corner of Centennial Drive and 1st Street/CO Highway 79, immediately south and west of Dollar General. See the vicinity map below.


The Shops at Bennett project lies just north of the Bennett Town Hall, the Veteran's Memorial, the Adams County Shared Services building and the Bennett Recreation Center.

The illustration below shows the proposed lot layout creating five new lots for future commercial development. Access to the five lots will be via an internal private drive off Centennial Drive north of the subdivision. There will not be any access to Bennett Avenue. See the traffic discussion below for more details.


## Zoning and Land Use Regulations

The subject property is currently zoned C - General Commercial District. The map below shows the zoning of the property and the surrounding area, including a mix of residential, commercial, planned development and public zone districts.


The table below summarizes the zoning and land use on properties immediately adjacent to the subject property.

| Direction | Adjacent Zone District | Land Use |
| :--- | :--- | :--- |
| North | C- General Commercial District | Dollar General, Bank and Vacant Lot |
| East | C- General Commercial District | Dollar General, Bank, Church, U.S. Post Office |
| South | P- Public District | Town Hall, County Shared Services Building, <br> Veteran's Memorial |
| West | R-1 - Low Density Residential District | Residential -Centennial Subdivision |

The property also lies within the Main Street Downtown overlay district. The eventual site plan will be reviewed for compliance with the Main Street elements of the Bennett Development Design Guidelines.

Public Services and Utilities

The subject property is served by the following:

## Water

Water will be provided by the Town of Bennett. Extension of the Town's water system is proposed as part of this development.

## Sanitary Sewer

Sanitary sewer will be provided by the Town of Bennett. Extension of the sanitary sewer system is proposed as part of this development.

## Stormwater Management

Stormwater will be collected and conveyed in accordance with Town standards to prevent any on-site or off-site flooding. The existing detention pond constructed as part of the Dollar General project will accommodate the stormwater from this subdivision.

## Access and Traffic

Vehicular access will be provided to the commercial subdivision by a private internal drive that connects with Centennial Drive to the north. There is no access via Bennett Avenue, consistent with the Colorado Department of Transportation's (CDOT) request. As part of the original Shops at Bennett Subdivision Final Plat, the Town required the property owner to dedicate additional right-of-way (ROW) along the east side of the property along CO Highway 79 consistent with a future 100-foot highway ROW profile for that section of the highway.

The applicant submitted a traffic impact analysis (TIA) prepared by LSC Transportation Consultants, Inc. One key element of a traffic impact analysis is the concept of Level of Service (LOS). The State of Colorado Highway Access code describes LOS as "a measure describing the operational conditions within a stream of traffic. The measure uses factors including speed, travel time, ability to maneuver, traffic interruptions, safety, waiting time periods (delay), and driver comfort and convenience." LOS ranges from A to F, including LOS E, and correlates to the level of congestion or amount of delay, as described above.

Below is the Town Traffic Engineer's assessment of the applicant's TIA.

1. All movements operate at acceptable LOS (C or better) through 2042 without the development.
2. All movements operate at acceptable LOS (C or better) through 2042 with the development with the exception of the eastbound left (EBL) turn from Centennial Drive north to CO Highway 79 which operates at LOS D in the PM peak hour in 2024. LOS D is considered acceptable LOS.
o This includes the site access intersection on Centennial Drive. Analysis shows LOS A and less than 1 queued vehicle in the PM peak hour.
3. Once CO Highway 79 is realigned and traffic along this segment of the highway is reduced, that turning movement returns a LOS C, which is similar to existing conditions.
4. LOS D delay ranges from 25 seconds to 35 seconds per vehicle and is described as tolerable delay or congestion. Drivers may wait a little longer to find gaps in the traffic flow. This amount of delay generally does not result in drivers feeling frustrated, leading to unsafe driving maneuvers.
5. For the Shops at Bennett, delay for the EBL in the PM peak hour was reported at 27.1 second/vehicle which is on the lower end of the LOS D range of delay.
6. The southwest corner radius of Centennial Drive and CO Highway 79 (closest to Dollar General) is shown to be increased, along with the $\mathrm{SH}_{79}$ center median being pulled back. This should allow for improved turning movements for larger vehicles (delivery trucks, bus, etc.) heading southbound on CO Highway 79. The Town will continue to work with the applicant on additional improvements, including widened lanes and paved shoulders, northwest corner radius, and combinations of those, to address and potentially improve large vehicle movements.
7. A southbound acceleration lane is proposed on CO Highway 79 to meet State Highway Access Code requirements. This should allow vehicles to reach adequate speeds, creating increased safety conditions for all users as they merge. This acceleration lane can be constructed with minor widening to SB CO Highway 79 as part of the Shops development.

Regarding pedestrian access, the Town is requiring an access easement be provided that will accommodate pedestrian access along the internal drive and then extend to the south property line. At the time of site plan review, the Town will require a sidewalk improvement south to the Veteran's Memorial and Town Hall and also east along the Bennett Avenue alignment to connect with the regional trail along west side of the highway. This will provide safe and convenient pedestrian and bike access to the Shops at Bennett.

## Fire and Rescue

Bennett-Watkins Fire Rescue will provide fire protection service. Development will be subject to the International Fire Code (IFC). An easement for a "hammerhead" turnaround will be dedicated on the final plat to assure adequate turnarounds for emergency vehicles.

## Gas, Electricity and Telecommunications

Natural gas will be provided by Colorado Natural Gas, electricity by CORE Electric Cooperative and telecommunications by Eastern Slope Technologies (ESRTA) or Comcast. Appropriate easements for these providers are identified on the final plat.

## Subdivision Agreement Required

A subdivision agreement (SA) that identifies and guarantees public improvements, including but not limited to streets, sidewalks/trails, water, sanitary sewer and storm water management is required prior to the issuance of an infrastructure permit. A note to that effect will be added to the final plat.

## Public Land Dedication Requirements

Per Section 16-5-510 of Bennett Municipal Code, at the time of subdivision, the subdivider shall dedicate to the Town and improve to the Town's specifications usable tracts of land that are free from liens or encumbrances, for park land and public facilities. This land may be used for public parks, trails, open space, public facilities or recreational purposes. The public land dedication requirement shall be equal to ten percent ( $10 \%$ ) of the total land area contained within the subdivision regardless of zoning classification.

Because the Town would derive greater benefit at the time from a cash-in-lieu payment than from the provision of land, such cash-in-lieu will be determined in a future Subdivision Agreement (SA).

## Staff Analysis and Findings

Per Section 16-4-380 of the Bennett Municipal Code, the Town shall use the following criteria to evaluate the applicant's final plat application:
A. The final plat incorporates recommended changes, modifications and conditions attached to the sketch plan unless otherwise approved by the Planning Commission.

## Staff Finding: The sketch plan process has been waived because of the previous review of the original Shops at Bennett Subdivision.

B. All applicable technical standards in accordance with this Chapter and adopted Town documents have been met.

1. To establish appropriate standards for subdivision design that will:
a. Encourage the development of sound, economical and stable neighborhoods and healthy living environments, in conformance with the goals and policies of the Comprehensive Plan.
b. Provide lots of adequate size, configuration and design for the purpose for which they are intended to be used.
c. Promote superior design and design flexibility.
d. Preserve the significant natural features and environmental quality of the Town.
e. Guide the physical development of the Town in ways that complement the Town's character and culture.
f. Promote a cohesive sense of community among new and current residents, precluding neighborhood design or restrictions that in any way isolate any neighborhood from the rest of the community.
g. Provide complete and accurate public land records.

## Staff Finding: The proposed subdivision will accommodate new development that meets the standards of good subdivision design.

2. To establish standards for utilities and other public services that will:
a. Provide an efficient, adequate and economical supply of utilities and services to land proposed for development without adverse effects to property that is currently served.
b. Ensure that adequate stormwater drainage, sewage disposal, water supply and other utilities, services and improvements needed as a consequence of the subdivision of the land are provided.
c. Provide for the reasonable extension of utilities and services to other lands that may be developed in the future.
d. Provide the equitable distribution of the cost of new and expanded public services needed to support new land development.

Staff Finding: The proposed subdivision will accommodate extension of utilities and public services to serve the property. The applicant will be required to pay for the project's fair share of undergrounding the overhead CORE electric line along the east side of the property.
3. To ensure the provision of adequate and safe traffic circulation that will:
a. Minimize traffic hazards through appropriate street design, providing safe and convenient vehicular and pedestrian traffic circulation systems.
b. Provide adequate vehicular access to abutting properties.
c. Provide streets of adequate capacity and appropriate design and function.

Staff Finding: Centennial Avenue and S. $1^{\text {st }}$ Street/CO Highway 79 provides adequate and appropriate access to the property. See discussion on traffic above.
4. To ensure adequate public facilities that will:
a. Provide for the recreational, cultural, educational and other public facility needs of the community.
b. Facilitate effective law enforcement and fire protection.

Staff Finding: Adequate public facilities are available to the property.
5. To contribute to the proper development of the community in accordance with the goals and policies of the Comprehensive Plan as it may be updated from time to time.

Staff Finding: The proposed plat is consistent with the principles in the 2021 Town of Bennett Comprehensive Plan including:

- A comprehensive, safe and efficient transportation system that provides for all forms of travel, including vehicular, bicycle, pedestrian and public transit.
- Develop neighborhoods that have a mix of land uses and densities with easy access to parks and open space, schools, cultural facilities, places of worship, shopping and employment.
- Contiguous land development pattern that promotes connected infrastructure and services in line with the capital asset inventory master planning documents.
- Both land and infrastructure development decisions will be predictable and provide equitable costsharing in line with the Town's master plans.


## C. Compliance with Zoning Regulations

Staff Finding: The final plat is consistent with the C- General Commercial zone district. Future development will be subject to the lot standards in the zone district, including but not limited to building setbacks, building height, parking, landscaping and lighting.

## Public Comment

Notice of the September 19, 2022 Planning and Zoning Commission meeting was published in the Eastern Colorado News, posted on the subject property and sent to all property owners within 300 feet of the property. No public comment has been received as of this date.

Staff finds the proposed final plat is in compliance with the Subdivision Regulations in Chapter 16, Article IV of the Bennett Municipal Code. Staff also finds the plat has been processed according to Section 16-4-360 and meets the approval criteria in 16-4-380. Based upon these findings, Staff recommends the Planning and Zoning Commission adopt Resolution No. 2022-17 recommending to the Board of Trustees approval of Case No. 22.11-Shops at Bennett Subdivision, Amendment No. 1 Final Plat, with the following conditions:

1. Approval of a subdivision agreement (SA) that identifies and guarantees public improvements, including but not limited to streets, sidewalks/trails, water, sanitary sewer, storm water management and undergrounding utilities prior to the issuance of an infrastructure permit.
2. Before recording the final plat, the applicant shall:
a. Update plat notes related to easements; maintenance and required site plan review;
b. Make other minor modifications as directed by Town Staff, the Town Engineer and Town Attorney

## Attachments

1. Staff PowerPoint Presentation (PDF)
2. Land Use Application
3. Applicant's Letter of Intent
4. Proposed Final Plat
5. Traffic Impact Analysis
6. Combined Referral Agency Responses
7. Draft Resolution No. 2022-17

# Case No. 22.11 Shops at Bennett Subdivision, Amendment No. 1 

Town of Bennett
Planning and Zoning Commission

September 19, 2022
Steve Hebert, Planning Manager

## Shops at Bennett Subdivision Vicinity Map



## Original Shops at Bennett Subdivision

- Approved in August 2021
- 5.9 acres
- Zoned C - General Commercial District
- Created one buildable lot (Lot1), now Dollar General
- Created Tract A for future commercial subdivision
- Tract B for detention pond



## Shops at Bennett Subdivision, Amendment No. 1

- 4.17 acres
- Zoned C - General Commercial District
- Access via Centennial Ave, no direct access to $1^{\text {st }}$ St./CO Highway 79
- Creates five commercial lots
- Various access and utility easements dedicated via plat




## Zoning

- Current zoning is C - General Commercial District
- Within the Main Street Downtown overlay district, with additional design guidelines applied at time of site plan



## Surrounding Zoning and Land Use

| Directio <br> $\boldsymbol{n}$ | Adjacent Zone District | Land Use |
| :--- | :--- | :--- |
| North | C- General Commercial <br> District | Dollar General, Bank and <br> Vacant Lot |
| East | C- General Commercial <br> District | Dollar General, Bank, Church, <br> U.S. Post Office |
| South | P - Public District | Town Hall, County Shared <br> Services Building, Veteran's <br> Memorial |
| West | R-1 - Low Density Residential <br> District | Residential -Centennial <br> Subdivision |

# Access and Traffic Concept of Level of Service (LOS) 

Table 1. Level of Service Criteria for Signalized Intersections

| Level of <br> Service | Average Control Delay <br> (sec/veh) | General Description <br> (Signalized Intersections) |
| :---: | :---: | :--- |
| A | $\leq 10$ | Free Flow |
| B | $>10-20$ | Stable Flow (slight delays) |
| C | $>20-35$ | Stable flow (acceptable delays) <br> D |
| E through more than one signal cycle before proceeding) |  |  |

## Access and Traffic

| Table 2. Level of Service Criteria for Unsignalized Intersections |  |
| :---: | :---: |
| Level of Service | Average Control Delay (sec/veh) |
| A | $0-10$ |
| B | $>10-15$ |
| C | $>15-25$ |
| D | $>25-35$ |
| E | $>35-50$ |
| F | $>50$ |

## Access and Traffic

1. Applicant's Traffic Impact Analysis assessed Level of Service (LOS)
2. All movements operate at acceptable LOS (C or better) through 2042 with the exception of the eastbound left (EBL) turn from Centennial Drive north to CO Highway 79 which operates at LOS D in the PM peak hour in 2024. LOS D is considered acceptable LOS.
3. Once CO Highway 79 is realigned and traffic along this segment of the highway is reduced, that turning movementwess returns a LOS C.

## Access and Traffic, Continued

4. Corner radii are shown to be increased, along with the SH 79 center median pulled back. This should allow for improved turning movements for larger vehicles (delivery trucks, bus, etc.)
5. A southbound acceleration lane is proposed on SH 79 to meet State Highway Access Code requirements. This should allow vehicles to reach adequate speeds, creating increased safety conditions for all users as they merge. This acceleration lane can be constructed with minor widening to SB SH 79 as part of frees the Shops development.

## Future Street

## Improvements



## Future Pedestrian Improvements



## Staff Findings on Case No. 22.11

## Per Section 16-4-380 of the Bennett Municipal Code, the Town shall

 use the following criteria to evaluate the applicant's final plat application:- No sketch plan required.
- All applicable technical standards in accordance with this Chapter and adopted Town documents will be met.
- The proposed lots will accommodate new development that meets the standards of subdivision design.
- The proposed plat will accommodate extension of utilities and public services to serve future commercial development.
- No public facilities are anticipated as part of this subdivision. However, there will be a public land dedication requirement or cash-in-lieu.
- All development will meet the standards set forth in the C - General Commercial District an page 32 Main Street Overly District.


## Staff Recommendation

Staff recommends the Planning and Zoning Commission adopt Resolution No. 2022-17 recommending the Board of Trustees approve the Shops at Bennett Subdivision, Amendment No. 1 Final Plat, with the following conditions:

1. Approval of a subdivision agreement (SA) that identifies and guarantees public improvements, including but not limited to streets, sidewalks/trails, water, sanitary sewer, storm water management and undergrounding utilities prior to the issuance of an infrastructure permit.
2. Before recording the final plat, the applicant shall:
a. Update plat notes related to easements; maintenance and required site plan review;
b. Make other minor modifications as directed by Town Staff, the Town Engineer and Town Attorney

## Questions and Comments?




All Submittal Requirements must accompany this application. All applicable fees must be paid at the time of application. Any extraordinary cost incurred by the Town of Bennett in reviewing and processing this application is the responsibility of the applicant.

An executed cost agreement must be attached to this application pursuant to Sec. 16-1-325 of the Bennett Municipal Code.

I understand this is an application only, it must be approved by the Town, and any required building permits must be obtained before the property can be used in accordance with the request. I hereby acknowledge all of the above information is correct.
 Date: $\qquad$


Steve Hammers, President shammers@hammersconstruction.com

## Letter of Intent

Final Plat
Owner Information
Shop at Civic Center LLC
965 S ${ }^{\text {st }}$ St. Unit 6F
Bennett, CO 80102-8750
Project Name: Shops at Bennett
Owner Representatives
Hammers Construction, Inc.
Joe Butler - Project Manager
Lisa Peterson - Design (Applicant)
1411 Woolsey Heights
Colorado Springs, CO 80915
(719) 570-1599

Site:
S. $1^{\text {st }}$ and Centennial Drive

Bennett, CO 80102-8750
Lot Size: 4.170 Acres
Zoned: General Commercial District
Parcel numbers: 01815-2840-1011, 01815-2840-1013, 01815-2840-1014
Description
Request approval to plat five Lots and one Tract. We are proposing to install a portion of the roadway \& utility infrastructure at this time. The five lots will be developed for future retail or like uses. Tract A will be reserved for the continuation of Bennett Ave.

Justification
This land is currently vacant. The proposed Lots will be developed for more retail space or like uses, which is an approved use within this zone district.

## THE SHOPS AT BENNETT SUBDIVISION, AMENDMENT NO. 1

A REPLAT OF TRACT A, THE SHOPS AT BENNETT SUBDIVISION,


PURPOSE STATEMENT
O REPLAT ALL OF TRACT A, THE SHOPS AT BENNETT SUBDIVISION, INTO FIVE LOTS.

OWNERSHIP AND DEDICATION
THOWN BY ALL PERSOSS BY THESE PRESENTS, THAT THE UNDERSIGNED BEING THE OWNER OF
TRACT A, THE SHOPS AT BENNET SUBDIVIIIION, A SUBDIVIIIION RECORDED AT RECEPTION NO.
2021000112038 OF THE RECORDS OF ADAMS COUNTY. COLORADO SITUATED IN THE SOUTHEAST 2021000112038 OF THE RECORDS OF ADAMS COUNTY, COLORADO, SITUATED IN THE SOUTHEAS
$1 / 4 \mathrm{~F}$ SECTION 28 , TOWNSHIP 3 SOUTH, RANGE 63 WEST OF THE SIXTH PRINCIPAL MERIDAN, TOWN OF BENNETT, COUNTY OF ADAMS, STATE OF COLORADO.
HAVE LAID OUT, SUBDIVIDED AND PLATTED SAID LAND AS PER DRAWING HEREON CONTAINED
UNDER THE NAME AND STYLE OF THE SHOPS AT BENNETT SUBDIVISON, AMENDMENT NO. 1 , A SUBDVIIION OF APART OF THE TOWN OF BEANETN, COUNTY OF ADAMS, STATE OF
COLORADO, AND BY THESE PRESENTS DOES HEREBY DEDCATE TO THE TOWN OF BENNETT
 ACCOMPANYING PLAT FOR THE PUBLLC USE THEREOF FOREVER AND DOES FURTHER DEDICATE TO THE USE OF THE TOWN OF BENNETT AND ALL SERVING PUBLIC UTLITIIES (AND O
APPRORRITE ENTIISS) HHOSE EPRTONS OF SAID REAL PROPERTY WHICH ARE SO APPROPRIATE ENTITIES) THOSE PORTIO
DESIGNATED AS EASEMENTS AS SHOWN.

IT IS EXPRESSLY UNDERSTOOD AND AGREED BY THE UNDERSIGNED THAT ALL EXPENSES AND
COSTS INVOLVED IN CONSTRUCTING AND INSTALLING SANTARY SEWER SYSTEM WORKS
 STREET PAVEMENT, SIDEWALLKS, AND OTHER UTLLTTIES AND SERVICES SHAL BE BE GUARANTEED
AND PAID FOR BY THE SUBDIVIDR OR ARRANGEMENTS MADE BY THE SUBDIVIDER THEREOF
 PAID BY THE TOWN OF BENNETT, AND THAT ANY ITEM SO CONSTRUCTED OR INSTALLLED WHEN ACCEPTED BY THE TOWN OF BENNETT SHALL BECOME THE SOLE PROPERTY OF SAID
TOWN OF BENNET, COLORDO EXCEPT PRVITE RODWAY CRBSS GUTER RDP PAEMEN AND ITEMS OWNEDBY MUNICIPALITY FRANCHISED UTILTITES, OTHER SERVING PUBLLC ENTITIES,
WHICH WHEN CONSTRUCTED OR INSTALLED SHALL REMAIN ANDOR BECOME THE WHICH WHEN CONSTRUCTED OR INSTALLED SHALL REMAIN ANDOR BECOME THE
PROPERTY OF SUCH MUNICIPALITYFRANCHISED UTLITIES, OTHERSERVING PUBLIC ENTITIES
AND SHALL NOT BECOME THE PROPERTY OF THE TOWN OF BENETT, COLORADO. PROPERTY OF SUCH MUNICIPALITY FRANCHISED UTLITIIES, OTHER SEVVING PUBLI
AND SHALL NOT BECOME THE PROPERTY OF THE TOWN OF BENNETT, COLORADO.

## WNERSHP CERTIFCATE

N WTTNESS THEREOF, SHOPS AT CIVIC CENTER PARK LC, A COLORADO CORPORATION HAS

## OWNER: SHOPS AT CIVIC CENTER PARKLC,

## BY: $\begin{aligned} & \text { FORREST CHARLESWORTH } \\ & \text { MANAGING, MANAGER }\end{aligned}$

## ATTEST:-

COUNTY OF__ ${ }^{\text {SS }}$
THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS ___ DAY OF 2022 BY FORREST CHARLESWORTH, MANAGING MANAGER OF SHOPS ATGIVIC CENTER PARK IC, A COLORADO CORPORATION

LLC,
BY:

—— MY COMMISSION EXPIRES:
general notes:

1. THE ENTIRE PROPERTY IS LOCATED IN ZONE X, AS SHOWN ON THE FLOOD INSURANGE RATE MAP (FIRM)
FOR ADAMS COUNTY COLORADO MAP NUMBER 718 , COMMUNITY NUMBER O8001CO718H REVISED DATE MARCH 5TH, 2007.
2. NOTICE: ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOEVR SUCH DEFECTT. IN NO EVEN
MAY ANY ACTIN BASED UPO ANY DEFECTN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS
FROM THE DATE OF CERTIICICATION SHOWN HEREON.
3. A BLANKET DRAINAGE EASEMENT, EXCLUDING BULLDING FOOTPRINTS AND EXCLUSIVE EASEMENTS, IS
HEREBY GRANTED TO AND BETWEEN ALLLOTS AND TRACTS WITHIN THE SUBDIVIION FOR THE PURPOSES
 OF CONVEYING SURFACE AND SUBSURRACE STORM WATER, AND CONSTRUCTION, MAINTENANCE,
AND ACCESS TO THE IMPROVEMENTS. THE UNDERLYING PROPERTY OWNER OR ASSIGNS WILL BE
RESPONSIBLE FOR MAINTENANCE OTHE TASEMENT AREA. RESPONSIBLE FOR MAINTENANCE OF THE EASEMENT AREA.
 THE GTH PM.. ADAMS COUNTY, CDLORADO. SAID LINE IS ASSUMED TO BEAR NOOOOGO4"E FROM THE SOUTHEAST CORNER OF SADD SECTION (MONUMENTED WITHA $21 / 2$ ALUM. CAP PLS 25379 IN MONUMEN
BOX) TO THE EAST $1 / 4$ CORNER OF SAID SECTON (MONUMENTED WITH A $21 / 2$ ALUM CAP PLS 23027)
4. TITLE COMMITMENT BY LAND TITLE GUARANTEE COMPANY ORDER NO. AMENDMENT

5. ALL LAND USE APPROVALS AND BULLDING PERMITS FOR THE DEVELOPMENT DESCRIBED HEREIN SHALL
BE SUBJECT TO REQUIREMENTS INCLUDING BUT NOT LIMITED TO: THE PAYMENT OF IMPACT FEES AND BE SUBJECT TO REQUIREMENTS INCLUDING BUT NOT LIMTED TO: THE PAYMENT OF IMPACT FEES AND DEVELOPMENT CHARGES, CONCURRENCY MANAGEMENT REQUIREMENTS, MORATORIUMS, BUILING
PERMTT LMITATIONS, DESIGN STANDARDS, AND ANY OTHER LAND USE AND DEVELOPMENT REQUIREMENTS IN EFFECT AT THE TIME THAT SUCH PROPOSED DEVELOPMENT APPLIES FOR A BULDING PERMIT.
6. LINEAL DIMENSIONS SHOWN HEREON ARE U.S. SURVEY FOOT.
7. UNLESS SHOWN OR NOTED OTHERWIIEE, ALL EASEMENTS WITHIN THE BOUNDARY OF THIS SUBDIVIIION
8. THE POLICY OF THE TOWN REQUIRES THAT MAINTENANCE ACCESS SHALL BE PROVIDED TO ALL STORM
 OWNERS SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALLDRABAINAGE FACIITIES INCLUDING INLETS, PIPES, CULVERTS, CHANNELS, DITCHES, HYDRAULIC STRUCTURES, AND DETENTION BASINS LOCATED ON
THEIR LAND UNLESS MODIFIED BY A SUBDVIISION AGREEMENT OR DEVELOPMENT AGREEMENT. SHOULD THE OWNER FAIL TO MAINTAIN SAID FACILITIES, THE TOWN OF BENNETT SHALL HAVE THE RIGHT BUT NOT
THE OBLIGATION TO ENTER SAID LAND FOR THE SOLE PURPOSE OF OPERATIONS AND MAINTENANCE. ALL THE OBLIGATION TO ENTER SAID LAND FOR THE SOLE PURPOSE OF OPERATIO
SUCH MAINTENANCE COSTS WILL BE ASSESSED TO THE PROPERTY OWNER(S)
9. SURFACED ACCESS ROADS CAPABLE OF WITTSTANDING THE IMPOSED LOADS OF FIRE APPARATUS AND CONSTRUCTION.
10. ALL INTERNAL ROAD AND DRAINAGE FACILITY CONSTRUCTION SHALL BE IN ACCORDANCE WITH STREET CONSTRUCTION PLANS, PAVEMENT DESIGN, GRADING AND EROSION CONTROL PLANS, A FINAL DRAINAGE CLAN ANC ALL APPLICABLE TOWN ADOPTED STANDARDS AND SPECIFICATIONS SUBMITTED TO AND
APPPROVED BY THE TOW OF BENNETI.群
11. THIS PLAT IS SUBJECT TO THE TERMS AND CONDITIONS OF THE SUBDIVISION AGREEMENT (SAA
RECORDED AT RECEPTION NO.


12. THERE ARE NO SIGNIFICANT NATURAL DRAINAGE COURSES, GEOLOGIC HAZARD AREAS, OR OTHER
13. NON-EXCLUSIVE UTLLTY EASEMENTS LOCATED AS SHOWN ARE HEREBY GRANTED FOR THE
 NOT LIMITED TO SLREET LIGHTS, ELECTRIC LINES, GAS LINES, CABLE TELEVIION LINES, FIBER OPTIC LINE
AD TELEPHONE LNES, AS WEL AS PERPETOALIGTHT FOR INGRESS AND EGRESS FOR INSTALLATON,


## general notes: (CONTINUED)

16. SIGH DISTANCE EASEMENTS ARE HEREBY DEDICATED TO THE TOWN OF
BENNETT FOR SIGHT DISTANCE PURPOSES TOGETHER WITH THE FOLLOWIN RESTRICTIONS OVER SAID EASEMENTS: NO OBEDCCT WITHIN THE SIGHT DISTANCE THE ADJACENT STREET. SUCH OBJECTS SHALL INCLUDE BUT NOT BE LIMITED TO BUILDINGS, VEGETATIO
WITHIN THE EASEMENT.
17. EASEMENTS SHOWN AND IDENTIFIED ON "AS-PLATTED" DEPICTION WERE RECORDED AT RECEPION NO. 2021000112038 OF THE RECO A SUBDIVISION ROUNTY, ULESS SHOWN OTHRWISE.

## OWN APPROVAL BLOCK

THI IS TO CERTIFY THAT THE PLAT OF TTHE SHOPS AT BENNETT SUBDIVIIION, THIS IS TO CEETIIYY THAT THE PLAT OF THE SHOPS AT BENET SUBDIVISION,
AMENDMENT NO.1 WAS APPROVED ON THE_DAY ON
2O22. BY RESOLUTION NO.
 THE TOWN OF BENNETT ON BEHALF OF THE TOWN OF BENNEIT, HEREBY ALL PURPOSES INDICATED THEREON.

## MAYOR

ATTEST: TOWN CLERK

## SURVEYOR'S CERTIFICAT

VAMES F. LENZ, A REGISTERED SURVEYOR IN THE STATE OF COLORADO, D HEREBY CERTIFY THAT THIS PLAT WAS MADE BY ME OR UNDER MY DIRECT
SuPERVIIION ON THE $10 T H$ DAY OF JANUARY 2022, AND THAT THE ACCOMPANYING MAP ACCURATELY AND PROPERLY SHOWS SAID SUBDIVISION

SIGNED THIS

- DAY OF
- 2022. 

GOISESSIONALOL LAND SURVEYO OR AND ON BEHALF OF
RIDGELINE LAND SURVEYING LLC

## RECORDERS CERTIFCATE <br> hereby certify that this instrument was filed for record in the office of ADAMS COUNTY CLERK AND RECORDER ON THE DAY OF DEPUTY <br> BY <br> $\qquad$ DEPUTY



# THE SHOPS AT BENNETT SUBDIVISION, AMENDMENT NO. 1 

A REPLAT OF TRACT A, THE SHOPS AT BENNETT SUBDIVISION,
A PaRT OF THE SE $1 / 4$ OF SECTION 28, TOWNSHIP 3 SOUTH, RANGE 63 WEST OF THE 6TH PRINCIPAL MERIDIAN, TOWN OF BENNETT,

COUNTY OF ADAMS, STATE OF COLORADO
SHEET 2 OF 3


## THE SHOPS AT BENNETT SUBDIVISION, AMENDMENT NO. 1

a replat of tract a, the shops at bennett subdivision,
A PART OF THE SE $1 / 4$ OF SECTION 28, TOWNSHIP 3 SOUTH, RANGE 63 WEST
OF THE 6TH PRINCIPAL MERIDIAN, TOWN OF BENNETT,
COUNTY OF ADAMS, STATE OF COLORADO
SHEET 3 OF 3




LSC TRANSPORTATION CONSULTANTS, INC.

1889 York Street
Denver, CO 80206
(303) 333-1105

FAX (303) 333-1107
E-mail: Isc@Iscdenver.com

September 9, 2022
Mr. Joe Butler
Hammers Construction
1411 Woolsey Heights
Colorado Springs, CO 80915

Re: Shops at Bennett Square Bennett, CO<br>LSC \#211180

Dear Mr. Butler:
In response to your request, LSC Transportation Consultants, Inc. has prepared this updated Traffic Impact Analysis for the proposed Shops at Bennett Square development to address Town comments. As shown on Figure 1, the site is located west of $1^{\text {st }}$ Street (SH 79) and south of Centennial Drive in Bennett, Colorado.

## REPORT CONTENTS

The report contains the following: the existing roadway and traffic conditions in the vicinity of the site including the lane geometries, traffic controls, posted speed limits, etc.; the existing weekday peak-hour traffic volumes; the existing daily traffic volumes in the area; an adjustment of the existing traffic for the ongoing pandemic; the typical weekday site-generated traffic volume projections for the site; the assignment of the projected traffic volumes to the area roadways; the projected short-term and long-term background and resulting total traffic volumes on the area roadways; the site's projected traffic impacts; and any recommended roadway improvements to mitigate the site's traffic impacts.

## LAND USE AND ACCESS

The site is proposed to include a variety store with about 9,450 square feet, about 14,400 square feet of strip retail; a tire store with about 6,547 square feet; a medical office building with about 5,000 square feet; and a veterinary clinic with about 4,176 feet. Full movement access is proposed to Centennial Drive as shown in the conceptual site plan in Figure 2.

## ROADWAY AND TRAFFIC CONDITIONS

## Area Roadways

The major roadways in the site's vicinity are shown on Figure 1 and are described below.

- $\quad \mathbf{1}^{\text {st }}$ Street (SH 79) is a north-south, two-lane state highway east of the site. It is classified by CDOT as NR-B (non-rural highway). The CDOT straight line diagram is attached. The intersections with E. Colfax Avenue (US 36), Centennial Drive, and Bennett Avenue are stop-sign controlled. The posted speed limit in the vicinity of the site is 35 mph but transitions to 45 mph just to the south. The existing SH 79 alignment is expected to be shifted to the east by 2042 per the preferred realignment from the SH 79 and Kiowa-Bennett Corridor PEL Study by CDOT.
- Centennial Drive is an east-west, two-lane local roadway north of the site. The intersection with $1^{\text {st }}$ Street (SH 79) is stop-sign controlled. The posted speed limit in the vicinity of the site is 25 mph .
- Bennett Avenue is an east-west, two-lane local roadway east of the site. The intersection with $1^{\text {st }}$ Street (SH 79) is stop-sign controlled.


## Existing Traffic Conditions

Figure 3a shows the existing lane geometries, traffic controls, posted speed limits, and traffic volumes in the site's vicinity on a typical weekday. The weekday peak-hour traffic volumes and daily traffic counts are from the attached traffic counts conducted by Counter Measures in June, 2021.

## Adjustment for the Ongoing Pandemic

Figure 3 b shows the existing traffic volumes adjusted for the ongoing pandemic. The traffic volumes at the $1^{\text {st }}$ Street (SH 79)/Bennett Avenue intersection are based on Figure 3b of the 2020 Worthman Acres TIA by LSC with the through traffic volumes grown for one year at 3.7 percent based on the CDOT 20-year factor of 2.07. The side road volumes assumed little or no growth. The east/west volumes at the $1^{\text {st }}$ Street (SH 79)/E. Colfax Avenue intersection are based on the higher of the traffic counts in Figure 3a and the 2017 traffic count from Figure 3 of the 2019 Muegge Farms TIA by LSC grown for four years at an annual growth rate of three percent. The volumes to/from the south were balanced with the other two intersections. These volumes are consistent with Figure 3b of the 2021 Dollar General TIA by LSC.

## 2024 and 2042 Background Traffic

Figure 4 shows the estimated 2024 background traffic which assumes three years of growth at 3.7 percent on SH 79 based on the CDOT 20-year factor of 2.07 . It also assumes three years of growth at a rate of 3.0 percent on US 36. Bennett Avenue assumes additional trips from a portion of the 300 Bennett and Worthman Acres buildout.

Figure 5 shows the estimated 2042 background traffic which assumes 18 years of growth at an annual rate of 3.0 percent on US 36 and buildout of the 300 Bennett and Worthman Acres developments. The volumes on the east leg on Intersection \#3 are consistent with those in the 2020 Worthman Acres TIA by LSC (Figure 9). It also assumes the volumes to/from the east leg of Intersection \#1 are consistent with the volumes in the 2020 Worthman Acres TIA by LSC (Figure 9).

Figures 4 and 5 also show the estimated 2024 and 2042 background traffic control and lane geometry, respectively.

## Existing, 2024, and 2042 Background Levels of Service

Level of service (LOS) is a quantitative measure of the level of congestion or delay at an intersection. Level of service is indicated on a scale from "A" to "F." LOS A is indicative of little congestion or delay and LOS F is indicative of a high level of congestion or delay. Attached are specific level of service definitions for unsignalized intersections.

The intersections in Figures 3b, 4, and 5 were analyzed to determine the existing, 2024, and 2042 background levels of service using Synchro. Table 1 shows the level of service analysis results. The level of service reports are attached.

1. $\mathbf{1}^{\text {st }}$ Street (SH 79)/E. Colfax Avenue (US 36): All movements at this unsignalized intersection currently operate at LOS " C " or better during both morning and afternoon peakhours and are expected to do so through 2042.
2. $\mathbf{1}^{\text {st }}$ Street (SH 79)/Centennial Drive: All movements at this unsignalized intersection currently operate at LOS "C" or better during both morning and afternoon peak-hours and are expected to do so through 2042.
3. $\mathbf{1}^{\text {st }}$ Street (SH 79)/Bennett Avenue: All movements at this unsignalized intersection currently operate at LOS "C" or better during both morning and afternoon peak-hours and are expected to do so through 2042.
4. Centennial Drive/Site Access/Bank Access: All movements at this unsignalized intersection currently operate at LOS "A" during both morning and afternoon peak-hours and are expected to do so through 2042.

## TRIP GENERATION

Table 2 shows the estimated average weekday, morning peak-hour, and afternoon peak-hour trip generation for the proposed site based on the rates from Trip Generation, $11^{\text {th }}$ Edition, 2021 by the Institute of Transportation Engineers (ITE).

The site is projected to generate about 1,837 vehicle-trips on the average weekday, with about half entering and half exiting during a 24 -hour period. During the morning peak-hour, which generally occurs for one hour between 6:30 and 8:30 a.m., about 69 vehicles would enter and about 41 vehicles would exit the site. During the afternoon peak-hour, which generally occurs for one hour between 4:00 and 6:00 p.m., about 103 vehicles would enter and about 116 vehicles would exit. These estimates include passby trips as shown in Table 2.

## TRIP DISTRIBUTION

Figure 6 shows the estimated directional distribution of the site-generated traffic volumes on the area roadways. The estimates were based on the location of the site with respect to the regional population, employment, and activity centers; and the site's proposed land use.

## TRIP ASSIGNMENT

Figure 7a shows the estimated primary site-generated traffic volumes based on the directional distribution percentages (from Figure 6) and the trip generation estimate (from Table 2).

Figure 7b shows the estimated passby site-generated traffic volumes.

## 2024 AND 2042 TOTAL TRAFFIC

Figure 8 shows the estimated 2024 total traffic which is the sum of the 2024 background traffic volumes (from Figure 4) and the site-generated traffic volumes (from Figures 7a and 7b). Figure 8 also shows the recommended 2024 lane geometry and traffic control.

Figure 9 shows the estimated 2042 total traffic which is the sum of the 2042 background traffic volumes (from Figure 5) and the site-generated traffic volumes (from Figures 7a and 7b). Figure 9 also shows the recommended 2042 lane geometry and traffic control.

The conceptual improvements along $1^{\text {st }}$ Street (SH 79) are shown in Figure 10.

## PROJECTED LEVELS OF SERVICE

Level of service (LOS) is a quantitative measure of the level of congestion or delay at an intersection. Level of service is indicated on a scale from "A" to "F." LOS A is indicative of little congestion or delay and LOS F is indicative of a high level of congestion or delay. Attached are specific level of service definitions for unsignalized intersections.

The intersections in Figures 8 and 9 were analyzed to determine the 2024 and 2042 total levels of service. Table 1 shows the level of service analysis results. The level of service reports are attached.

1. $\mathbf{1}^{\text {st }}$ Street (SH 79)/Colfax Avenue (US 36): All movements at this unsignalized intersection are expected to operate at LOS "C" or better during both morning and afternoon peakhours through 2042.
2. $\mathbf{1}^{\text {st }}$ Street (SH 79)/Centennial Drive: All movements at this unsignalized intersection are expected to operate at LOS "D" or better during both morning and afternoon peak-hours through 2042.
3. $\mathbf{1}^{\text {st }}$ Street (SH 79)/Bennett Avenue: All movements at this unsignalized intersection are expected to operate at LOS "C" or better during both morning and afternoon peak-hours through 2042.
4. Centennial Drive/Site Access/Bank Access: All movements at this unsignalized intersection are expected to operate at LOS "B" or better during both morning and afternoon peak-hours through 2042.

## CONCLUSIONS AND RECOMMENDATIONS

## Trip Generation

1. The site is projected to generate about 1,837 vehicle-trips on the average weekday, with about half entering and half exiting during a 24 -hour period. During the morning peakhour, about 69 vehicles would enter and about 41 vehicles would exit the site. During the afternoon peak-hour, about 103 vehicles would enter and about 116 vehicles would exit. These estimates include passby trips as shown in Table 2.

## Projected Levels of Service

2. All movements at the intersections analyzed are expected to operate at LOS "D" or better during both morning and afternoon peak-hours through 2042.

## Conclusions

3. The impact of the Shops at Bennett Square development can be accommodated by the existing roadway network with the recommended improvements shown in Figure 10.

We trust our findings will assist you in gaining approval of the proposed Shops at Bennett Square development. Please contact me if you have any questions or need further assistance.


Christopher S McGranahan, PE, PTOE
Principal
SIONAL
CSM/wc

$$
9-9-22
$$

Enclosures: Tables 1 and 2
Figures 1-10
SH 79 Straight Line Diagram
Traffic Count Reports
Figures 3b and 9 from 2020 Worthman Acres TIA by LSC
Figure 3 from 2019 Muegge Farms TIA by LSC
Figure 3b from 2021 Dollar General TIA by LSC
Level of Service Definitions
Level of Service Reports

Table 1

## Intersection Levels of Service Analysis

Shops at Bennett Square

## Bennett, CO

LSC \#211180; September, 2022

|  |  | Existing Traffic |  | $2024$ <br> Background Traffic |  | $\begin{gathered} 2024 \\ \text { Total Traffic } \end{gathered}$ |  | $2042$ <br> Background Traffic |  | $\begin{gathered} 2042 \\ \text { Total Traffic } \end{gathered}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\underline{\text { Intersection Location }}$ | Traffic Control | Level of Service AM | Level of Service PM | Level of Service AM | Level of Service PM | Level of Service AM | Level of Service PM | Level of Service AM | Level of Service PM | Level of Service AM | Level of Service PM |
| 1) S. 1st Street (SH 79)/E. Colfax Avenue (US 36) | TWSC |  |  |  |  |  |  |  |  |  |  |
| NB Left |  | C | C | C | C | C | C | B | C | C | C |
| NB Right |  | A | A | A | A | A | A | A | A | A | A |
| WB Left |  | A | A | A | A | A | A | A | A | A | A |
| Critical Movement Delay |  | 16.2 | 17.6 | 17.9 | 19.8 | 18.9 | 22.3 | 14.4 | 16.8 | 15.1 | 18.7 |
| 2) S. 1st Street (SH 79)/Centennial Drive | TWSC |  |  |  |  |  |  |  |  |  |  |
| NB Left |  | A | A | A | A | A | A | A | A | A | A |
| EB Left |  | B | C | B | C | C | D | B | C | B | C |
| EB Right |  | B | B | B | B | B | B | A | A | A | B |
| Critical Movement Delay |  | 12.9 | 17.1 | 13.8 | 18.8 | 15.7 | 27.1 | 12.2 | 15.4 | 13.6 | 20.5 |
| 3) S. 1st Street (SH 79)/Bennett Avenue | TWSC |  |  |  |  |  |  |  |  |  |  |
| WB Approach |  | B | C | C | C | C | C | B | C | B | C |
| SB Left |  | A | A | A | A | A | A | A | A | A | A |
| Critical Movement Delay |  | 13.7 | 16.4 | 15.3 | 19.1 | 15.5 | 20.8 | 13.1 | 15.1 | 13.8 | 17.4 |
| 4) Centennial Drive/Site Access/Bank Access | TWSC |  |  |  |  |  |  |  |  |  |  |
| NB Approach |  | -- | -- | -- | -- | A | A | A | A | A | A |
| EB Approach |  | A | A | A | A | A | A | A | A | A | A |
| WB Approach |  | -- | -- | -- | -- | A | A | A | A | A | A |
| SB Approach |  | A | A | A | A | B | B | A | A | B | B |
| Critical Movement Delay |  | 9.0 | 9.4 | 9.0 | 9.4 | 10.3 | 13.0 | 9.2 | 9.9 | 10.7 | 13.8 |

## Table 2 <br> ESTIMATED TRAFFIC GENERATION <br> Shops at Bennett Square <br> Bennett, CO <br> LSC \#211180; September, 2022



PREVIOUSLY PROPOSED LAND USE


## Notes:

(1) Source: Trip Generation, Institute of Transportation Engineers, 11th Edition, 2021.
(2) ITE Land Use No. 814 - Variety Store
(3) $\mathrm{KSF}=1,000$ square feet
(4) ITE Land Use No. 822 - Strip Retail Plaza (<40K)
(5) ITE Land Use No. 720 - Medical/Dental Office Building
(6) ITE Land Use No. 848 - Tire Store
(7) ITE Land Use No. 640 - Animal Hospital/Veterinary Clinic
(8) Passby trips are expected to comprise about $34 \%$ of retail trips per the Trip Generation Handbook, 3rd Edition




## $\sigma^{5}$



Based on Figure 3b of the 2020 Worthman Acres TIA by LSC with the through traffic volumes grown for one year at 3.7 percent based on CDOT 20-year factor of 2.07. Side road volumes assumed little or no growth.
** East/west volumes based on the higher of the counts in Figure 3a and the 2017 count from Figure 3 of the Muegge Farms TIA by LSC grown for four years at annual rate of three percent. Volumes to/from the south were balanced with the other two intersections.

Note: These volumes are consistent with Figure 3b of the 2021 Dollar General TIA by LSC.


Existing Traffic, Adjusted for Pandemic











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.

## COUNTER MEASURES INC.

## 1889 YORK STREET <br> DENVER.COLORADO <br> 303-333-7409

$$
\begin{array}{ll}
\text { File Name } & : 1 \text { 1STCOLFAX } \\
\text { Site Code } & : 00000013 \\
\text { Start Date } & : 6 / 16 / 2021 \\
\text { Page No }: 1
\end{array}
$$

Groups Printed- VEHICLES

|  | Southbound |  |  |  | COLFAX AVENUE Westbound |  |  |  | 1ST STREET <br> Northbound |  |  |  | COLFAX AVENUE Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | $\begin{aligned} & \text { Int. } \\ & \text { Total } \end{aligned}$ |
| Factor | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |  |
| 06:30 AM | 0 | 0 | 0 | 0 | 26 | 7 | 0 | 0 | 7 | 0 | 12 | 0 | 0 | 8 | 0 | 0 | 60 |
| 06:45 AM | 0 | 0 | 0 | 0 | 33 | 7 | 0 | 0 | 9 | 0 | 16 | 0 | 0 | 2 | 4 | 0 | 71 |
| Total | 0 | 0 | 0 | 0 | 59 | 14 | 0 | 0 | 16 | 0 | 28 | 0 | 0 | 10 | 4 | 0 | 131 |


| 07:00 AM | 0 | 0 | 0 | 0 | 35 | 8 | 0 | 0 | 5 | 0 | 18 | 0 | 0 | 8 | 5 | 0 | 79 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07:15 AM | 0 | 0 | 0 | 0 | 31 | 13 | 0 | 0 | 5 | 0 | 21 | 0 | 0 | 0 | 5 | 0 | 75 |
| 07:30 AM | 0 | 0 | 0 | 0 | 44 | 13 | 0 | 0 | 3 | 0 | 28 | 0 | 0 | 9 | 7 | 0 | 104 |
| 07:45 AM | 0 | 0 | 0 | 0 | 47 | 11 | 0 | 0 | 4 | 0 | 32 | 0 | 0 | 11 | 7 | 0 | 112 |
| Total | 0 | 0 | 0 | 0 | 157 | 45 | 0 | 0 | 17 | 0 | 99 | 0 | 0 | 28 | 24 | 0 | 370 |
| 08:00 AM | 0 | 0 | 0 | 0 | 59 | 7 | 0 | 0 | 8 | 0 | 31 | 0 | 0 | 6 | 3 | 0 | 114 |
| 08:15 AM | 0 | 0 | 0 | 0 | 51 | 8 | 0 | 0 | 5 | 0 | 27 | 0 | 0 | 6 | 6 | 0 | 103 |
| Total | 0 | 0 | 0 | 0 | 110 | 15 | 0 | 0 | 13 | 0 | 58 | 0 | 0 | 12 | 9 | 0 | 217 |


| 04:00 PM | 0 | 0 | 0 | 0 | 37 | 6 | 0 | 0 | 6 | 0 | 41 | 0 | 0 | 17 | 17 | 0 | 124 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 04:15 PM | 0 | 0 | 0 | 0 | 41 | 9 | 0 | 0 | 9 | 0 | 39 | 0 | 0 | 14 | 18 | 0 | 130 |
| 04:30 PM | 0 | 0 | 0 | 0 | 44 | 10 | 0 | 1 | 8 | 0 | 44 | 0 | 0 | 18 | 17 | 0 | 142 |
| 04:45 PM | 0 | 0 | 0 | 0 | 41 | 6 | 0 | 0 | 13 | 0 | 49 | 1 | 0 | 13 | 12 | 0 | 135 |
| Total | 0 | 0 | 0 | 0 | 163 | 31 | 0 | 1 | 36 | 0 | 173 | 1 | 0 | 62 | 64 | 0 | 531 |


| $05: 00 ~ P M ~$ | 0 | 0 | 0 | 0 | 44 | 10 | 0 | 0 | 6 | 0 | 51 | 1 | 0 | 7 | 19 | 0 | 138 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $05: 15 ~ P M ~$ | 0 | 0 | 0 | 0 | 48 | 10 | 0 | 0 | 8 | 0 | 49 | 0 | 0 | 18 | 11 | 0 | 144 |
| $05: 30$ PM | 0 | 0 | 0 | 0 | 52 | 4 | 0 | 0 | 9 | 0 | 46 | 1 | 0 | 18 | 10 | 0 | 140 |
| $05: 45$ PM | 0 | 0 | 0 | 0 | 37 | 4 | 0 | 0 | 11 | 0 | 62 | 0 | 0 | 15 | 5 | 0 | 134 |
| Total | 0 | 0 | 0 | 0 | 181 | 28 | 0 | 0 | 34 | 0 | 208 | 2 | 0 | 58 | 45 | 0 | 556 |


| Grand Total | 0 | 0 | 0 | 0 | 670 | 133 | 0 | 1 | 116 | 0 | 566 | 3 | 0 | 170 | 146 | 0 | 1805 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Apprch \% | 0.0 | 0.0 | 0.0 | 0.0 | 83.3 | 16.5 | 0.0 | 0.1 | 16.9 | 0.0 | 82.6 | 0.4 | 0.0 | 53.8 | 46.2 | 0.0 |  |
| Total \% | 0.0 | 0.0 | 0.0 | 0.0 | 37.1 | 7.4 | 0.0 | 0.1 | 6.4 | 0.0 | 31.4 | 0.2 | 0.0 | 9.4 | 8.1 | 0.0 |  |

## COUNTER MEASURES INC.

1889 YORK STREET
N/S STREET: 1ST STREET
DENVER.COLORADO
File Name : 1STCOLFAX
E/W STREET: COLFAX AVENUE 303-333-7409
CITY: BENNETT
COUNTY: ADAMS
Start Date: 6/16/2021
Page No : 2

|  | Southbound |  |  |  |  | COLFAX AVENUE Westbound |  |  |  |  | 1ST STREET Northbound |  |  |  |  | COLFAX AVENUE <br> Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Left | $\begin{gathered} \text { Thr } \\ \mathrm{u} \end{gathered}$ | $\begin{array}{r} \text { Rig } \\ \mathrm{ht} \end{array}$ | $\begin{array}{r} \text { Ped } \\ \mathrm{s} \end{array}$ | App. Total | Left | $\begin{array}{r} \hline \text { Thr } \\ \mathrm{u} \end{array}$ | $\begin{array}{r} \text { Rig } \\ \mathrm{ht} \end{array}$ | $\begin{array}{r} \text { Ped } \\ \mathrm{s} \end{array}$ | App. Total | Left | $\begin{gathered} \text { Thr } \\ \mathrm{u} \end{gathered}$ | $\begin{gathered} \mathrm{Rig} \\ \mathrm{ht} \end{gathered}$ | $\begin{array}{r} \text { Ped } \\ \mathrm{s} \end{array}$ | App. Total | Left | Thr u | $\begin{array}{r} \text { Rig } \\ \mathrm{ht} \end{array}$ | $\begin{array}{r} \text { Ped } \\ \mathrm{s} \end{array}$ | App. Total | $\begin{array}{r} \text { Int. } \\ \text { Total } \end{array}$ |
| Peak Hour From 06:30 AM to 08:15 AM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Intersecti on | 07:30 AM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Volume | 0 | 0 | 0 | 0 | 0 | 201 | 39 | 0 | 0 | 240 | 20 | 0 | 118 | 0 | 138 | 0 | 32 | 23 | 0 | 55 | 433 |
| Percent | 0.0 | 0.0 | 0.0 | 0.0 |  | $\begin{array}{r} 83 . \\ 8 \end{array}$ | $\begin{array}{r} 16 . \\ 3 \end{array}$ | 0.0 | 0.0 |  | 14. | 0.0 | 85 5 | 0.0 |  | 0.0 | 58. | 41. | 0.0 |  |  |
| 08:00 Volume | 0 | 0 | 0 | 0 | 0 | 59 | 7 | 0 | 0 | 66 | 8 | 0 | 31 | 0 | 39 | 0 | 6 | 3 | 0 | 9 | 114 |
| Peak | 6.15.00 AM |  |  |  |  | 08:00 AM |  |  |  |  | 08:00 AM |  |  |  |  | 07:45 AM |  |  |  |  | 0.950 |
| Factor |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| High Int. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Volume | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  | 59 | 7 | 0 | 0 | 66 | 8 | 0 | 31 | 0 | 39 | 0 | 11 | 7 | 0 | 18 |  |
| Peak |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.90 |  |  |  |  | 0.88 |  |  |  |  | 0.76 |  |
| Factor |  |  |  |  |  |  |  |  |  | 9 |  |  |  |  | 5 |  |  |  |  | 4 |  |



## COUNTER MEASURES INC.

1889 YORK STREET
N/S STREET: 1ST STREET
DENVER.COLORADO
File Name : 1STCOLFAX
E/W STREET: COLFAX AVENUE 303-333-7409 Site Code : 00000013
Start Date : 6/16/2021
Page No : 2



COUNTER MEASURES INC.
1889 YORK STREET
DENVER.COLORADO
$303-333-7409$
N/S STREET: 1ST STREET
E/W STREET: CENTENNIAL DRIVE CITY: BENNETT
COUNTY: ADAMS
File Name : 1STCENT
Site Code : 00000005
Start Date : 6/16/2021 Page No : 1
Groups Printed- VEHICLES

|  | 1ST STREET <br> Southbound |  |  |  | Westbound |  |  |  | 1ST STREET <br> Northbound |  |  |  | CENTENNIAL DRIVE Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Int. Total |
| Factor | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |  |
| 06:30 AM | 0 | 23 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 15 | 0 | 0 | 3 | 0 | 8 | 0 | 51 |
| 06:45 AM | 0 | 41 | 0 | 2 | 0 | 0 | 0 | 1 | 1 | 25 | 0 | 0 | 1 | 0 | 18 | 0 | 89 |
| Total | 0 | 64 | 1 | 2 | 0 | 0 | 0 | 1 | 2 | 40 | 0 | 0 | 4 | 0 | 26 | 0 | 140 |


| 07:00 AM | 0 | 38 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 25 | 0 | 0 | 2 | 0 | 10 | 0 | 81 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07:15 AM | 0 | 33 | 2 | 1 | 0 | 0 | 0 | 0 | 3 | 26 | 0 | 0 | 3 | 0 | 9 | 0 | 77 |
| 07:30 AM | 0 | 45 | 5 | 0 | 0 | 0 | 0 | 0 | 2 | 25 | 0 | 0 | 6 | 0 | 8 | 1 | 92 |
| 07:45 AM | 0 | 44 | 6 | 0 | 0 | 0 | 0 | 0 | 2 | 34 | 0 | 0 | 10 | 0 | 8 | 0 | 104 |
| Total | 0 | 160 | 13 | 1 | 0 | 0 | 0 | 0 | 13 | 110 | 0 | 0 | 21 | 0 | 35 | 1 | 354 |
| 08:00 AM | 0 | 65 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 38 | 0 | 0 | 3 | 0 | 6 | 0 | 117 |
| 08:15 AM | 0 | 49 | 6 | 0 | 0 | 0 | 0 | 0 | 7 | 29 | 0 | 0 | 4 | 0 | 5 | 0 | 100 |
| Total | 0 | 114 | 11 | 0 | 0 | 0 | 0 | 0 | 7 | 67 | 0 | 0 | 7 | 0 | 11 | 0 | 217 |


| 04:00 PM | 0 | 44 | 11 | 0 | 0 | 0 | 0 | 0 | 13 | 49 | 0 | 0 | 1 | 1 | 15 | 0 | 134 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 04:15 PM | 0 | 54 | 4 | 0 | 0 | 0 | 0 | 0 | 11 | 51 | 0 | 0 | 1 | 0 | 8 | 0 | 129 |
| 04:30 PM | 0 | 57 | 7 | 0 | 0 | 0 | 0 | 0 | 11 | 58 | 0 | 0 | 5 | 0 | 7 | 0 | 145 |
| 04:45 PM | 0 | 43 | 5 | 0 | 0 | 0 | 0 | 0 | 23 | 54 | 0 | 0 | 11 | 0 | 9 | 0 | 145 |
| Total | 0 | 198 | 27 | 0 | 0 | 0 | 0 | 0 | 58 | 212 | 0 | 0 | 18 | 1 | 39 | 0 | 553 |


| $05: 00 ~ P M ~$ | 0 | 63 | 3 | 0 | 0 | 0 | 0 | 0 | 12 | 64 | 0 | 0 | 5 | 0 | 6 | 0 | 153 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $05: 15 ~ P M$ | 0 | 54 | 5 | 0 | 0 | 0 | 0 | 0 | 15 | 62 | 0 | 0 | 4 | 0 | 10 | 0 | 150 |
| $05: 30 ~ P M ~$ | 0 | 55 | 7 | 0 | 0 | 0 | 0 | 1 | 11 | 58 | 0 | 0 | 4 | 0 | 5 | 0 | 141 |
| $05: 45$ PM | 0 | 39 | 3 | 0 | 0 | 0 | 0 | 1 | 8 | 73 | 0 | 0 | 4 | 0 | 9 | 0 | 137 |
| Total | 0 | 211 | 18 | 0 | 0 | 0 | 0 | 2 | 46 | 257 | 0 | 0 | 17 | 0 | 30 | 0 | 581 |


| Grand Total | 0 | 747 | 70 | 3 | 0 | 0 | 0 | 3 | 126 | 686 | 0 | 0 | 67 | 1 | 141 | 1 | 1845 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Apprch \% | 0.0 | 91.1 | 8.5 | 0.4 | 0.0 | 0.0 | 0.0 | 100.0 | 15.5 | 84.5 | 0.0 | 0.0 | 31.9 | 0.5 | 67.1 | 0.5 |  |
| Total \% | 0.0 | 40.5 | 3.8 | 0.2 | 0.0 | 0.0 | 0.0 | 0.2 | 6.8 | 37.2 | 0.0 | 0.0 | 3.6 | 0.1 | 7.6 | 0.1 |  |

## COUNTER MEASURES INC.

1889 YORK STREET
N/S STREET: 1ST STREET
DENVER.COLORADO
303-333-7409
File Name : 1STCENT
Site Code : 00000005
Start Date : 6/16/2021 Page No : 2


|  |  |  |
| :---: | :---: | :---: |
|  |  |  |
|  |  |  |

## COUNTER MEASURES INC.

1889 YORK STREET
N/S STREET: 1ST STREET
DENVER.COLORADO
303-333-7409
File Name : 1STCENT
Site Code : 00000005
Start Date: 6/16/2021 Page No : 2

|  | 1ST STREET Southbound |  |  |  |  | Westbound |  |  |  |  | 1ST STREET <br> Northbound |  |  |  |  | CENTENNIAL DRIVE Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start <br> Time | Left | $\begin{array}{r} \text { Thr } \\ \mathrm{u} \end{array}$ | $\begin{array}{r} \text { Rig } \\ \mathrm{ht} \end{array}$ | Ped | App. Total | Left | $\begin{gathered} \text { Thr } \\ \mathrm{u} \end{gathered}$ | $\begin{gathered} \mathrm{Rig} \\ \mathrm{ht} \end{gathered}$ | $\begin{array}{r} \text { Ped } \\ \mathrm{s} \end{array}$ | App. Total | Left | $\begin{array}{r} \mathrm{Thr} \\ \mathrm{u} \end{array}$ | $\begin{gathered} \text { Rig } \\ \text { ht } \end{gathered}$ | Ped s | App. Total | Left | Thr u | $\begin{gathered} \text { Rig } \\ \text { ht } \end{gathered}$ | Ped s | App. Total | $\begin{array}{r} \text { Int. } \\ \text { Total } \end{array}$ |

Peak Hour From 04:30 PM to 05:15 PM - Peak 1 of 1


|  |  |  |
| :---: | :---: | :---: |
|  |  |  |
|  |  |  |

## COUNTER MEASURES INC.

## 1889 YORK STREET <br> DENVER.COLORADO <br> 303-333-7409

N/S STREET: 1ST STREET
E/W STREET: BENNETT AVENUE CITY: BENNETT
COUNTY: ADAMS
File Name : 1STBENNET
Site Code : 00000025
Start Date : 6/16/2021
Page No : 1
Groups Printed- VEHICLES

|  | 1ST STREET Southbound |  |  |  | BENNETT AVE <br> Westbound |  |  |  | 1ST STREET Northbound |  |  |  | Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | Left | Thru | Right | Peds | $\begin{array}{r} \text { Int. } \\ \text { Total } \end{array}$ |
| Factor | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |  |
| 06:30 AM | 0 | 32 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 15 | 2 | 0 | 0 | 0 | 0 | 0 | 58 |
| 06:45 AM | 3 | 56 | 0 | 0 | 10 | 0 | 2 | 0 | 0 | 24 | 4 | 0 | 0 | 0 | 0 | 0 | 99 |
| Total | 3 | 88 | 0 | 0 | 19 | 0 | 2 | 0 | 0 | 39 | 6 | 0 | 0 | 0 | 0 | 0 | 157 |


| 07:00 AM | 0 | 48 | 0 | 0 | 10 | 0 | 2 | 0 | 0 | 29 | 5 | 0 | 0 | 0 | 0 | 0 | 94 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07:15 AM | 1 | 43 | 0 | 0 | 11 | 0 | 1 | 0 | 0 | 28 | 6 | 0 | 0 | 0 | 0 | 0 | 90 |
| 07:30 AM | 0 | 54 | 0 | 0 | 7 | 0 | 1 | 0 | 0 | 29 | 5 | 0 | 0 | 0 | 0 | 0 | 96 |
| 07:45 AM | 2 | 50 | 0 | 0 | 14 | 0 | 3 | 0 | 0 | 34 | 9 | 0 | 0 | 0 | 0 | 0 | 112 |
| Total | 3 | 195 | 0 | 0 | 42 | 0 | 7 | 0 | 0 | 120 | 25 | 0 | 0 | 0 | 0 | 0 | 392 |
| 08:00 AM | 5 | 65 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 36 | 11 | 0 | 0 | 0 | 0 | 0 | 124 |
| 08:15 AM | 5 | 49 | 0 | 0 | 12 | 0 | 3 | 0 | 0 | 32 | 4 | 0 | 0 | 0 | 0 | 0 | 105 |
| Total | 10 | 114 | 0 | 0 | 19 | 0 | 3 | 0 | 0 | 68 | 15 | 0 | 0 | 0 | 0 | 0 | 229 |


| 04:00 PM | 3 | 57 | 0 | 0 | 11 | 4 | 5 | 0 | 0 | 54 | 17 | 0 | 0 | 0 | 0 | 0 | 151 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 04:15 PM | 6 | 55 | 0 | 0 | 11 | 0 | 4 | 0 | 0 | 57 | 18 | 0 | 0 | 0 | 0 | 0 | 151 |
| 04:30 PM | 6 | 56 | 0 | 0 | 13 | 0 | 10 | 0 | 0 | 60 | 12 | 0 | 0 | 0 | 0 | 0 | 157 |
| 04:45 PM | 8 | 44 | 0 | 0 | 20 | 0 | 6 | 2 | 0 | 74 | 23 | 0 | 0 | 0 | 0 | 2 | 179 |
| Total | 23 | 212 | 0 | 0 | 55 | 4 | 25 | 2 | 0 | 245 | 70 | 0 | 0 | 0 | 0 | 2 | 638 |


| 05:00 PM | 9 | 59 | 0 | 0 | 11 | 0 | 6 | 0 | 0 | 68 | 14 | 0 | 0 | 0 | 0 | 0 | 167 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 05:15 PM | 6 | 56 | 0 | 0 | 9 | 0 | 7 | 0 | 0 | 69 | 19 | 0 | 0 | 0 | 0 | 0 | 166 |
| 05:30 PM | 5 | 56 | 0 | 0 | 10 | 0 | 3 | 0 | 0 | 68 | 20 | 0 | 0 | 0 | 0 | 0 | 162 |
| 05:45 PM | 3 | 44 | 0 | 0 | 13 | 0 | 7 | 0 | 0 | 74 | 16 | 0 | 0 | 0 | 0 | 0 | 157 |
| Total | 23 | 215 | 0 | 0 | 43 | 0 | 23 | 0 | 0 | 279 | 69 | 0 | 0 | 0 | 0 | 0 | 652 |


| Grand Total | 62 | 824 | 0 | 0 | 178 | 4 | 60 | 2 | 0 | 751 | 185 | 0 | 0 | 0 | 0 | 2 | 2068 |  |  |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Apprch \% | 7.0 | 93.0 | 0.0 | 0.0 | 73.0 | 1.6 | 24.6 | 0.8 | 0.0 | 80.2 | 19.8 | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 | 0.0 | 0.0 | 0.0 |

## COUNTER MEASURES INC.

1889 YORK STREET
N/S STREET: 1ST STREET
DENVER.COLORADO
303-333-7409
File Name : 1STBENNET
E/W STREET: BENNETT AVENUE
CITY: BENNETT
COUNTY: ADAMS
Site Code : 00000025
Start Date: 6/16/2021
Page No : 2



## COUNTER MEASURES INC.

1889 YORK STREET
N/S STREET: 1ST STREET
DENVER.COLORADO
File Name : 1STBENNET
E/W STREET: BENNETT AVENUE
CITY: BENNETT
COUNTY: ADAMS
Site Code : 00000025
Start Date: 6/16/2021
Page No : 2

|  | 1ST STREET <br> Southbound |  |  |  |  | BENNETT AVE Westbound |  |  |  |  | 1ST STREET <br> Northbound |  |  |  |  | Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Left | $\begin{array}{r} \text { Thr } \\ \mathrm{u} \end{array}$ | $\begin{array}{r} \text { Rig } \\ \mathrm{ht} \end{array}$ | Ped | App. | Left | $\begin{array}{r} \text { Thr } \\ \mathrm{u} \end{array}$ | $\begin{gathered} \text { Rig } \\ \text { ht } \end{gathered}$ | Ped | App. Total | Left | $\begin{array}{r} \text { Thr } \\ \mathrm{u} \end{array}$ | $\begin{array}{r} \mathrm{Rig} \\ \mathrm{ht} \end{array}$ | $\begin{array}{r} \text { Ped } \\ \mathrm{s} \end{array}$ | App. Total | Left | $\begin{gathered} \text { Thr } \\ \mathrm{u} \end{gathered}$ | $\begin{gathered} \text { Rig } \\ \text { ht } \end{gathered}$ | $\begin{array}{r} \mathrm{Ped} \\ \mathrm{~s} \end{array}$ | App. Total | $\begin{array}{r} \text { Int. } \\ \text { Total } \end{array}$ |

Peak Hour From 04:30 PM to 05:15 PM - Peak 1 of 1



Location: 1ST STREET S-O COLFAX AVENUE
City: BENNETT
County: ADAMS
Direction: NORTH/SOUTH

COUNTER MEASURES INC.
1889 YORK STREET
DENVER,COLORADO 80206
Site Code: 211407 Station ID: 211407

| Start <br> Time | $\begin{aligned} & \text { 15-Jun-21 } \\ & \text { Tue } \end{aligned}$ | NORTHBOU | SOUTHBOU |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:00 AM |  | 26 | 9 |  |  |  |  |  |  | 35 |
| 01:00 |  | 9 | 10 |  |  |  |  |  |  | 19 |
| 02:00 |  | 6 | 7 |  |  |  |  |  |  | 13 |
| 03:00 |  | 4 | 17 |  |  |  |  |  |  | 21 |
| 04:00 |  | 27 | 39 |  |  |  |  |  |  | 66 |
| 05:00 |  | 35 | 108 |  |  |  |  |  |  | 143 |
| 06:00 |  | 75 | 164 |  |  |  |  |  |  | 239 |
| 07:00 |  | 139 | 178 |  |  |  |  |  |  | 317 |
| 08:00 |  | 144 | 240 |  |  |  |  |  |  | 384 |
| 09:00 |  | 190 | 216 |  |  |  |  |  |  | 406 |
| 10:00 |  | 213 | 201 |  |  |  |  |  |  | 414 |
| 11:00 |  | 207 | 228 |  |  |  |  |  |  | 435 |
| 12:00 PM |  | 245 | 260 |  |  |  |  |  |  | 505 |
| 01:00 |  | 236 | 254 |  |  |  |  |  |  | 490 |
| 02:00 |  | 236 | 204 |  |  |  |  |  |  | 440 |
| 03:00 |  | 205 | 234 |  |  |  |  |  |  | 439 |
| 04:00 |  | 242 | 252 |  |  |  |  |  |  | 494 |
| 05:00 |  | 274 | 258 |  |  |  |  |  |  | 532 |
| 06:00 |  | 199 | 200 |  |  |  |  |  |  | 399 |
| 07:00 |  | 161 | 144 |  |  |  |  |  |  | 305 |
| 08:00 |  | 144 | 120 |  |  |  |  |  |  | 264 |
| 09:00 |  | 108 | 108 |  |  |  |  |  |  | 216 |
| 10:00 |  | 58 | 52 |  |  |  |  |  |  | 110 |
| 11:00 |  | 37 | 26 |  |  |  |  |  |  | 63 |
| Total |  | 3220 | 3529 |  |  |  |  |  |  | 6749 |
| Percent |  | 47.7\% | 52.3\% |  |  |  |  |  |  |  |
| AM Peak | - | 10:00 | 08:00 | - | - | - | - | - | - | 11:00 |
| Vol. | - | 213 | 240 | - | - | - | - | - | - | 435 |
| PM Peak | - | 17:00 | 12:00 | - | - | - | - | - | - | 17:00 |
| Vol. | - | 274 | 260 | - | - | - | - | - | - | 532 |
| Grand Total |  | 3220 | 3529 |  |  |  |  |  |  | 6749 |
| Percent |  | 47.7\% | 52.3\% |  |  |  |  |  |  |  |
| ADT |  | ADT 6,749 |  | AADT 6,749 |  |  |  |  |  | Pag |

Location: 1ST STREET S-O CENTENNIAL DRIVE
City: BENNETT
County: ADAMS
Direction: NORTH/SOUTH

COUNTER MEASURES INC.
1889 YORK STREET
DENVER,COLORADO 80206
Site Code: 211419 Station ID: 211419


Location: CENTENNIAL DRIVE W-O 1ST STREET City: BENNETT
County: ADAMS
Direction: EAST/WEST

COUNTER MEASURES INC.
1889 YORK STREET
DENVER,COLORADO 80206
Site Code: 211414 Station ID: 211414



Intersection \#1 was adjusted based on the 2017 traffic counts from the Muegee Farms TIA by LSC grown for three years at an annual rate of about 1.5 percent.
2. Intersection \#2 was adjusted based on the 2017 traffic counts from the Muegge Farms TIA by LSC a
the intersection of E. Colfax Avenue (US 36)/SH 79.
. Intersections $\# 3$, $\# 4$ and $\# 5$ were adjusted based on the adiacent volumes at Intersection \#2.

Existing Traffic Volumes Adjusted for Pandemic



## $\sigma^{5}$



* Based on Figure 3b of the 2020 Worthman Acres TIA by LSC with the through traffic volumes grown for one year at 3.7 percent based on CDOT 20-year factor of 2.07. Side road volumes assumed little or no growth.
** East/west volumes based on the higher of the counts in Figure 3a and the 2017 count from Figure 3 of the Muegge Farms TIA by LSC grown for four years at annual rate of three percent. Volumes to/from the south were balanced with the other two intersections.


Figure $3 b$

## LEGEND:

$\begin{aligned} \frac{26}{35} & =\frac{\text { AM Peak Hour Traffic }}{\text { PM Peak Hour Traffic }} \\ 1,000 & =\text { Average Daily Traffic }\end{aligned}$

$$
\begin{gathered}
\text { Existing Traffic, } \\
\text { Adjusted for Pandemic } \\
\text { Dollar Ceneral- Bennett (ILC \#210660) }
\end{gathered}
$$

## LEVEL OF SERVICE DEFINITIONS

From Highway Capacity Manual, Transportation Research Board, 2016, 6th Edition
UNSIGNALIZED INTERSECTION LEVEL OF SERVICE (LOS)
Applicable to Two-Way Stop Control, All-Way Stop Control, and Roundabouts

| LOS | Average Vehicle Control Delay | Operational Characteristics |
| :---: | :---: | :---: |
| A | <10 seconds | Normally, vehicles on the stop-controlled approach only have to wait up to 10 seconds before being able to clear the intersection. Left-turning vehicles on the uncontrolled street do not have to wait to make their turn. |
| B | 10 to 15 seconds | Vehicles on the stop-controlled approach will experience delays before being able to clear the intersection. The delay could be up to 15 seconds. Left-turning vehicles on the uncontrolled street may have to wait to make their turn. |
| C | 15 to 25 seconds | Vehicles on the stop-controlled approach can expect delays in the range of 15 to 25 seconds before clearing the intersection. Motorists may begin to take chances due to the long delays, thereby posing a safety risk to through traffic. Left-turning vehicles on the uncontrolled street will now be required to wait to make their turn causing a queue to be created in the turn lane. |
| D | 25 to 35 seconds | This is the point at which a traffic signal may be warranted for this intersection. The delays for the stop-controlled intersection are not considered to be excessive. The length of the queue may begin to block other public and private access points. |
| E | 35 to 50 seconds | The delays for all critical traffic movements are considered to be unacceptable. The length of the queues for the stop-controlled approaches as well as the left-turn movements are extremely long. There is a high probability that this intersection will meet traffic signal warrants. The ability to install a traffic signal is affected by the location of other existing traffic signals. Consideration may be given to restricting the accesses by eliminating the left-turn movements from and to the stop-controlled approach. |
| F | >50 seconds | The delay for the critical traffic movements are probably in excess of 100 seconds. The length of the queues are extremely long. Motorists are selecting alternative routes due to the long delays. The only remedy for these long delays is installing a traffic signal or restricting the accesses. The potential for accidents at this intersection are extremely high due to motorist taking more risky chances. If the median permits, motorists begin making two-stage left-turns. |


| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 6.2 |  |  |  |  |  |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | 个 | $\mathbf{7}$ | $\mathbf{1}$ | 个 | $\mathbf{1}$ | $\mathbf{7}$ |
| Traffic Vol, veh/h | 35 | 40 | 265 | 40 | 25 | 210 |
| Future Vol, veh/h | 35 | 40 | 265 | 40 | 25 | 210 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | Free |
| Storage Length | - | 175 | 195 | - | 50 | 0 |
| Veh in Median Storage, \# | 0 | - | - | 0 | 0 | - |
| Grade, \% | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 38 | 43 | 288 | 43 | 27 | 228 |



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 1.3 |  |  |  |  |  |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | $\mathbf{1}$ | $\mathbf{r}$ | $\mathbf{1}$ | 个 | 个 | $\mathbf{7}$ |
| Traffic Vol, veh/h | 25 | 35 | 15 | 210 | 280 | 25 |
| Future Vol, veh/h | 25 | 35 | 15 | 210 | 280 | 25 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | 0 | 0 | - | - | 0 |
| Veh in Median Storage, \# | 0 | - | - | 0 | 0 | - |
| Grade, \% | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 27 | 38 | 16 | 228 | 304 | 27 |



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 1.8 |  |  |  |  |  |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | Mr |  | $\mathbf{F}$ |  | $\mathbf{1}$ | 4 |
| Traffic Vol, veh/h | 60 | 15 | 210 | 40 | 15 | 300 |
| Future Vol, veh/h | 60 | 15 | 210 | 40 | 15 | 300 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | 305 | - |
| Veh in Median Storage, \# | 0 | - | 0 | - | - | 0 |
| Grade, \% | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 65 | 16 | 228 | 43 | 16 | 326 |



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.6 |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations |  | -1 | $\mathbf{T}$ |  | Mr |  |
| Traffic Vol, veh/h | 1 | 55 | 30 | 10 | 5 | 1 |
| Future Vol, veh/h | 1 | 55 | 30 | 10 | 5 | 1 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, \# | - | 0 | 0 | - | 0 | - |
| Grade, \% | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 1 | 60 | 33 | 11 | 5 | 1 |


| Major/Minor | Major1 |  | Major2 |  | Minor2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 44 | 0 | - - | 0 | 101 | 39 |
| Stage 1 | - | - | - - | - | 39 | - |
| Stage 2 | - | - | - - | - | 62 | - |
| Critical Hdwy | 4.12 | - | - - | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - - | - | 5.42 | - |
| Follow-up Hdwy | 2.218 | - | - - | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | 1564 | - | - - | - | 898 | 1033 |
| Stage 1 | - | - | - - | - | 983 | - |
| Stage 2 | - | - | - - | - | 961 | - |
| Platoon blocked, \% |  | - | - - | - |  |  |
| Mov Cap-1 Maneuver | 1564 | - | - - | - | 897 | 1033 |
| Mov Cap-2 Maneuver | - | - | - - | - | 897 | - |
| Stage 1 | - | - | - - | - | 982 | - |
| Stage 2 | - | - | - - | - | 961 | - |
|  |  |  |  |  |  |  |
| Approach | EB |  | WB |  | SB |  |
| HCM Control Delay, s | 0.1 |  | 0 |  | 9 |  |
| HCM LOS |  |  |  |  | A |  |
|  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | EBL | EBT | WBT WBR SBLn1 |  |  |
| Capacity (veh/h) |  | 1564 | 析 | - | - | 917 |
| HCM Lane V/C Ratio |  | 0.001 | - | - | - | 0.007 |
| HCM Control Delay (s) |  | 7.3 | 0 | - | - | 9 |
| HCM Lane LOS |  | A | A | - | - | A |
| HCM 95th \%tile Q(veh) |  | 0 |  | - | - | 0 |






| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 2.4 |  |  |  |  |  |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | Mr |  | $\mathbf{F}$ |  | a | 4 |
| Traffic Vol, veh/h | 55 | 45 | 350 | 80 | 40 | 275 |
| Future Vol, veh/h | 55 | 45 | 350 | 80 | 40 | 275 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | 305 | - |
| Veh in Median Storage, \# | 0 | - | 0 | - | - | 0 |
| Grade, \% | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 60 | 49 | 380 | 87 | 43 | 299 |



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 1.5 |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations |  | -1 | F |  | Mr |  |
| Traffic Vol, veh/h | 1 | 45 | 75 | 20 | 25 | 1 |
| Future Vol, veh/h | 1 | 45 | 75 | 20 | 25 | 1 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, \# | - | 0 | 0 | - | 0 | - |
| Grade, \% | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 1 | 49 | 82 | 22 | 27 | 1 |


| Major/Minor | Major1 |  | Major2 |  | Minor2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 104 | 0 | - | 0 | 144 | 93 |
| Stage 1 | - | - | - | - | 93 | - |
| Stage 2 | - | - | - | - | 51 | - |
| Critical Hdwy | 4.12 | - | - |  | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 | - |
| Follow-up Hdwy | 2.218 | - | - | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | 1488 | - | - | - | 849 | 964 |
| Stage 1 | - | - | - | - | 931 | - |
| Stage 2 | - | - | - | - | 971 | - |
| Platoon blocked, \% |  | - | - | - |  |  |
| Mov Cap-1 Maneuver | 1488 | - | - | - | 848 | 964 |
| Mov Cap-2 Maneuver | - | - | - | - | 848 | - |
| Stage 1 | - | - | - | - | 930 | - |
| Stage 2 | - | - | - | - | 971 | - |
|  |  |  |  |  |  |  |
| Approach | EB |  | WB |  | SB |  |
| HCM Control Delay, s | 0.2 |  | 0 |  | 9.4 |  |
| HCM LOS |  |  |  |  | A |  |
|  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | EBL | EBT | WBT WBR SBLn1 |  |  |
| Capacity (veh/h) |  | 1488 | - | - | - | 852 |
| HCM Lane V/C Ratio |  | 0.001 | - | - | - | 0.033 |
| HCM Control Delay (s) |  | 7.4 | 0 | - | - | 9.4 |
| HCM Lane LOS |  | A | A | - | - | A |
| HCM 95th \%tile Q(veh) |  | 0 | - | - | - | 0.1 |


| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 6.4 |  |  |  |  |  |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | 个 | $\mathbf{7}$ |  | 4 | i | $\mathbf{7}$ |
| Traffic Vol, veh/h | 38 | 45 | 290 | 45 | 30 | 235 |
| Future Vol, veh/h | 38 | 45 | 290 | 45 | 30 | 235 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | Free |
| Storage Length | - | 175 | 195 | - | 50 | 0 |
| Veh in Median Storage, \# | 0 | - | - | 0 | 0 | - |
| Grade, \% | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, $\%$ | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 41 | 49 | 315 | 49 | 33 | 255 |



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 1.3 |  |  |  |  |  |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | $\mathbf{1}$ | $\mathbf{7}$ |  | 个 | 个 | $\mathbf{7}$ |
| Traffic Vol, veh/h | 26 | 36 | 16 | 240 | 310 | 26 |
| Future Vol, veh/h | 26 | 36 | 16 | 240 | 310 | 26 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | 0 | 0 | - | - | 0 |
| Veh in Median Storage, \# | 0 | - | - | 0 | 0 | - |
| Grade, \% | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 28 | 39 | 17 | 261 | 337 | 28 |



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 2.2 |  |  |  |  |  |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | $\mathbf{Y}$ |  | $\mathbf{F}$ |  | i | 4 |
| Traffic Vol, veh/h | 75 | 20 | 235 | 50 | 20 | 325 |
| Future Vol, veh/h | 75 | 20 | 235 | 50 | 20 | 325 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | 305 | - |
| Veh in Median Storage, \# | 0 | - | 0 | - | - | 0 |
| Grade, \% | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, $\%$ | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 82 | 22 | 255 | 54 | 22 | 353 |


| Major/Minor M | Minor1 |  | Major1 |  | Major2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 679 | 282 | 0 | 0 | 309 | 0 |
| Stage 1 | 282 | - | - | - | - | - |
| Stage 2 | 397 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 417 | 757 | - | - | 1252 | - |
| Stage 1 | 766 | - | - | - | - | - |
| Stage 2 | 679 | - | - | - | - | - |
| Platoon blocked, \% |  |  | - | - |  | - |
| Mov Cap-1 Maneuver | 409 | 757 | - | - | 1252 | - |
| Mov Cap-2 Maneuver | 409 | - | - | - | - | - |
| Stage 1 | 766 | - | - | - | - | - |
| Stage 2 | 667 | - | - | - | - | - |
|  |  |  |  |  |  |  |
| Approach | WB |  | NB |  | SB |  |
| HCM Control Delay, s | 15.3 |  | 0 |  | 0.5 |  |
| HCM LOS | C |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | NBT | NBRWBLn1 |  | SBL | SBT |
| Capacity (veh/h) |  | - | - | 453 | 1252 | - |
| HCM Lane V/C Ratio |  | - | - | 0.228 | 0.017 | - |
| HCM Control Delay (s) |  | - | - | 15.3 | 7.9 | - |
| HCM Lane LOS |  | - | - | C | A | - |
| HCM 95th \%tile Q(veh) |  | - | - | 0.9 | 0.1 | - |


| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.6 |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations |  | $\neq$ | $\uparrow$ |  | Mr |  |
| Traffic Vol, veh/h | 1 | 57 | 32 | 10 | 5 | 1 |
| Future Vol, veh/h | 1 | 57 | 32 | 10 | 5 | 1 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, \# | - | 0 | 0 | - | 0 | - |
| Grade, \% | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, $\%$ | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 1 | 62 | 35 | 11 | 5 | 1 |


| Major/Minor | Major1 |  | Major2 |  | Minor2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 46 | 0 | - - | 0 | 105 | 41 |
| Stage 1 | - | - | - - | - | 41 | - |
| Stage 2 | - | - | - - | - | 64 | - |
| Critical Hdwy | 4.12 | - | - - | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - - | - | 5.42 | - |
| Follow-up Hdwy | 2.218 | - | - - | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | 1562 | - | - - | - | 893 | 1030 |
| Stage 1 | - | - | - - | - | 981 | - |
| Stage 2 | - | - | - - | - | 959 | - |
| Platoon blocked, \% |  | - | - - | - |  |  |
| Mov Cap-1 Maneuver | 1562 | - | - - | - | 892 | 1030 |
| Mov Cap-2 Maneuver | - | - | - - | - | 892 | - |
| Stage 1 | - | - | - - | - | 980 | - |
| Stage 2 | - | - | - - | - | 959 | - |
|  |  |  |  |  |  |  |
| Approach | EB |  | WB |  | SB |  |
| HCM Control Delay, s | 0.1 |  | 0 |  | 9 |  |
| HCM LOS |  |  |  |  | A |  |
|  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | EBL | EBT | WBT WBR SBLn1 |  |  |
| Capacity (veh/h) |  | 1562 |  | - | - | 912 |
| HCM Lane V/C Ratio |  | 0.001 | 1-1 | - | - | 0.007 |
| HCM Control Delay (s) |  | 7.3 | 0 | - | - | 9 |
| HCM Lane LOS |  | A | A | - | - | A |
| HCM 95th \%tile Q(veh) |  | 0 |  | - | - | 0 |


| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 6.3 |  |  |  |  |  |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | 个 | $\mathbf{7}$ |  | 4 | I | $\mathbf{7}$ |
| Traffic Vol, veh/h | 82 | 45 | 285 | 50 | 45 | 350 |
| Future Vol, veh/h | 82 | 45 | 285 | 50 | 45 | 350 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | Free |
| Storage Length | - | 175 | 195 | - | 50 | 0 |
| Veh in Median Storage, \# | 0 | - | - | 0 | 0 | - |
| Grade, \% | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 89 | 49 | 310 | 54 | 49 | 380 |



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 1.9 |  |  |  |  |  |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | $\mathbf{T}$ | $\mathbf{7}$ |  | $\mathbf{4}$ | 个 | $\mathbf{7}$ |
| Traffic Vol, veh/h | 31 | 41 | 72 | 365 | 305 | 26 |
| Future Vol, veh/h | 31 | 41 | 72 | 365 | 305 | 26 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | 0 | 0 | - | - | 0 |
| Veh in Median Storage, \# | 0 | - | - | 0 | 0 | - |
| Grade, \% | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, $\%$ | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 34 | 45 | 78 | 397 | 332 | 28 |



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 2.9 |  |  |  |  |  |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | Mr |  | $\uparrow$ |  | F | 4 |
| Traffic Vol, veh/h | 65 | 55 | 380 | 95 | 50 | 295 |
| Future Vol, veh/h | 65 | 55 | 380 | 95 | 50 | 295 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | 305 | - |
| Veh in Median Storage, \# | 0 | - | 0 | - | - | 0 |
| Grade, \% | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 71 | 60 | 413 | 103 | 54 | 321 |


| Major/Minor | Minor1 |  | Major1 |  | Major2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 894 | 465 | 0 | 0 | 516 | 0 |
| Stage 1 | 465 | - | - | - | - | - |
| Stage 2 | 429 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 312 | 597 | - | - | 1050 | - |
| Stage 1 | 632 | - | - | - | - | - |
| Stage 2 | 657 | - | - | - | - | - |
| Platoon blocked, \% |  |  | - | - |  | - |
| Mov Cap-1 Maneuver | 296 | 597 | - | - | 1050 | - |
| Mov Cap-2 Maneuver | 296 | - | - | - | - | - |
| Stage 1 | 632 | - | - | - | - | - |
| Stage 2 | 623 | - | - | - | - | - |
|  |  |  |  |  |  |  |
| Approach | WB |  | NB |  | SB |  |
| HCM Control Delay, s | 19.1 |  | 0 |  | 1.2 |  |
| HCM LOS | C |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | NBT | NBRWBLn1 |  | SBL | SBT |
| Capacity (veh/h) |  | - | - | 385 | 1050 | - |
| HCM Lane V/C Ratio |  | - | - | 0.339 | 0.052 | - |
| HCM Control Delay (s) |  | - | - | 19.1 | 8.6 | - |
| HCM Lane LOS |  | - | - | C | A | - |
| HCM 95th \%tile Q(veh) |  | - | - | 1.5 | 0.2 | - |



| Major/Minor | Major1 |  | Major2 |  | Minor2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 108 | 0 | - | 0 | 150 | 97 |
| Stage 1 | - | - | - | - | 97 | - |
| Stage 2 | - | - | - | - | 53 | - |
| Critical Hdwy | 4.12 | - | - | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 | - |
| Follow-up Hdwy | 2.218 | - | - | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | 1483 | - | - | - | 842 | 959 |
| Stage 1 | - | - | - | - | 927 | - |
| Stage 2 | - | - | - | - | 970 | - |
| Platoon blocked, \% |  | - | - | - |  |  |
| Mov Cap-1 Maneuver | 1483 | - | - | - | 841 | 959 |
| Mov Cap-2 Maneuver | - | - | - | - | 841 | - |
| Stage 1 | - | - | - | - | 926 | - |
| Stage 2 | - | - | - | - | 970 | - |
|  |  |  |  |  |  |  |
| Approach | EB |  | WB |  | SB |  |
| HCM Control Delay, s | 0.2 |  | 0 |  | 9.4 |  |
| HCM LOS |  |  |  |  | A |  |
|  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | EBL | EBT | WBT WBR SBLn1 |  |  |
| Capacity (veh/h) |  | 1483 | - | - | - | 845 |
| HCM Lane V/C Ratio |  | 0.001 | - | - | - | 0.033 |
| HCM Control Delay (s) |  | 7.4 | 0 | - | - | 9.4 |
| HCM Lane LOS |  | A | A | - | - | A |
| HCM 95th \%tile Q(veh) |  | 0 | A | - |  | 0.1 |


| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 6.5 |  |  |  |  |  |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | 个 | $\mathbf{r}$ | $\mathbf{1}$ | 个 | $\mathbf{1}$ | $\mathbf{7}$ |
| Traffic Vol, veh/h | 38 | 55 | 302 | 45 | 35 | 242 |
| Future Vol, veh/h | 38 | 55 | 302 | 45 | 35 | 242 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | Free |
| Storage Length | - | 175 | 195 | - | 50 | 0 |
| Veh in Median Storage, \# | 0 | - | - | 0 | 0 | - |
| Grade, \% | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 41 | 60 | 328 | 49 | 38 | 263 |



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 2.3 |  |  |  |  |  |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | $\mathbf{T}$ | $\mathbf{7}$ |  | 4 | 个 | $\mathbf{7}$ |
| Traffic Vol, veh/h | 40 | 59 | 53 | 239 | 307 | 51 |
| Future Vol, veh/h | 40 | 59 | 53 | 239 | 307 | 51 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | 0 | 0 | - | - | 0 |
| Veh in Median Storage, \# | 0 | - | - | 0 | 0 | - |
| Grade, \% | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 43 | 64 | 58 | 260 | 334 | 55 |



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 2.3 |  |  |  |  |  |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | $\mathbf{Y}$ |  | $\mathbf{4}$ | $\mathbf{7}$ | $\mathbf{1}$ | 4 |
| Traffic Vol, veh/h | 75 | 30 | 260 | 50 | 25 | 340 |
| Future Vol, veh/h | 75 | 30 | 260 | 50 | 25 | 340 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | 273 | 305 | - |
| Veh in Median Storage, \# | 0 | - | 0 | - | - | 0 |
| Grade, \% | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, $\%$ | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 82 | 33 | 283 | 54 | 27 | 370 |


| Major/Minor M | Minor1 |  | Major1 |  | Major2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 707 | 283 | 0 | 0 | 337 | 0 |
| Stage 1 | 283 | - | - | - | - | - |
| Stage 2 | 424 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 402 | 756 | - | - | 1222 | - |
| Stage 1 | 765 | - | - | - | - | - |
| Stage 2 | 660 | - | - | - | - | - |
| Platoon blocked, \% |  |  | - | - |  | - |
| Mov Cap-1 Maneuver | 393 | 756 | - | - | 1222 | - |
| Mov Cap-2 Maneuver | 393 | - | - | - | - | - |
| Stage 1 | 765 | - | - | - | - | - |
| Stage 2 | 645 | - | - | - | - | - |
|  |  |  |  |  |  |  |
| Approach | WB |  | NB |  | SB |  |
| HCM Control Delay, s | 15.5 |  | 0 |  | 0.5 |  |
| HCM LOS | C |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | NBT | NBRWBLn1 |  | SBL | SBT |
| Capacity (veh/h) |  | - | - | 455 | 1222 | - |
| HCM Lane V/C Ratio |  | - | - | 0.251 | 0.022 | - |
| HCM Control Delay (s) |  | - | - | 15.5 | 8 | - |
| HCM Lane LOS |  | - | - | C | A | - |
| HCM 95th \%tile Q(veh) |  | - | - | 1 | 0.1 | - |




| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 7 |  |  |  |  |  |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | 个 | $\mathbf{7}$ |  | 4 | a | $\mathbf{7}$ |
| Traffic Vol, veh/h | 82 | 58 | 302 | 50 | 60 | 370 |
| Future Vol, veh/h | 82 | 58 | 302 | 50 | 60 | 370 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | Free |
| Storage Length | - | 175 | 195 | - | 50 | 0 |
| Veh in Median Storage, \# | 0 | - | - | 0 | 0 | - |
| Grade, \% | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 89 | 63 | 328 | 54 | 65 | 402 |



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 4 |  |  |  |  |  |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | $\mathbf{T}$ | $\mathbf{7}$ |  | $\mathbf{4}$ | 个 | $\mathbf{7}$ |
| Traffic Vol, veh/h | 72 | 100 | 126 | 362 | 301 | 60 |
| Future Vol, veh/h | 72 | 100 | 126 | 362 | 301 | 60 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | 0 | 0 | - | - | 0 |
| Veh in Median Storage, \# | 0 | - | - | 0 | 0 | - |
| Grade, \% | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 78 | 109 | 137 | 393 | 327 | 65 |



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 3.2 |  |  |  |  |  |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | Mr |  | 个 | $\mathbf{F}$ | 1 | 4 |
| Traffic Vol, veh/h | 65 | 68 | 415 | 95 | 68 | 335 |
| Future Vol, veh/h | 65 | 68 | 415 | 95 | 68 | 335 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | 273 | 305 | - |
| Veh in Median Storage, \# | 0 | - | 0 | - | - | 0 |
| Grade, \% | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, $\%$ | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 71 | 74 | 451 | 103 | 74 | 364 |



| Intersection |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Int Delay, s/veh | 5.5 |  |  |  |  |  |  |  |  |  |  |  |  |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |  |
| Lane Configurations |  | \$ |  |  | $\$$ |  |  | 4 |  |  | \& |  |  |
| Traffic Vol, veh/h | 1 | 44 | 12 | 91 | 76 | 20 | 13 | 0 | 103 | 25 | 0 | 1 |  |
| Future Vol, veh/h | 1 | 44 | 12 | 91 | 76 | 20 | 13 | 0 | 103 | 25 | 0 | 1 |  |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| Sign Control F | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |  |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |  |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |  |
| Veh in Median Storage, \# | \# | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |  |
| Grade, \% | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |  |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |  |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |  |
| Mvmt Flow | 1 | 48 | 13 | 99 | 83 | 22 | 14 | 0 | 112 | 27 | 0 | 1 |  |



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 4.7 |  |  |  |  |  |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | 个 | $\mathbf{r}$ | $\mathbf{1}$ | 个 | $\mathbf{7}$ | $\mathbf{7}$ |
| Traffic Vol, veh/h | 65 | 75 | 175 | 80 | 50 | 135 |
| Future Vol, veh/h | 65 | 75 | 175 | 80 | 50 | 135 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | Free |
| Storage Length | - | 175 | 195 | - | 50 | 0 |
| Veh in Median Storage, \# | 0 | - | - | 0 | 0 | - |
| Grade, \% | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 71 | 82 | 190 | 87 | 54 | 147 |



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 2.1 |  |  |  |  |  |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | $\mathbf{1}$ | $\mathbf{r}$ | $\mathbf{1}$ | 个 | 个 | $\mathbf{7}$ |
| Traffic Vol, veh/h | 30 | 45 | 30 | 155 | 220 | 30 |
| Future Vol, veh/h | 30 | 45 | 30 | 155 | 220 | 30 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | 0 | 0 | - | - | 0 |
| Veh in Median Storage, \# | 0 | - | - | 0 | 0 | - |
| Grade, \% | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 33 | 49 | 33 | 168 | 239 | 33 |



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 2.9 |  |  |  |  |  |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | $\mathbf{Y}$ |  | $\mathbf{4}$ | $\mathbf{7}$ | $\mathbf{1}$ | 4 |
| Traffic Vol, veh/h | 95 | 25 | 160 | 60 | 25 | 240 |
| Future Vol, veh/h | 95 | 25 | 160 | 60 | 25 | 240 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | 273 | 305 | - |
| Veh in Median Storage, \# | 0 | - | 0 | - | - | 0 |
| Grade, \% | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, $\%$ | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 103 | 27 | 174 | 65 | 27 | 261 |





| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 4.9 |  |  |  |  |  |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | 个 | $\mathbf{7}$ |  | 4 | $\mathbf{1}$ | $\mathbf{7}$ |
| Traffic Vol, veh/h | 140 | 75 | 175 | 85 | 75 | 175 |
| Future Vol, veh/h | 140 | 75 | 175 | 85 | 75 | 175 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | Free |
| Storage Length | - | 175 | 195 | - | 50 | 0 |
| Veh in Median Storage, \# | 0 | - | - | 0 | 0 | - |
| Grade, \% | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 152 | 82 | 190 | 92 | 82 | 190 |



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 3 |  |  |  |  |  |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | $\mathbf{1}$ | $\mathbf{7}$ | $\mathbf{1}$ | 4 | 个 | $\mathbf{7}$ |
| Traffic Vol, veh/h | 35 | 65 | 95 | 215 | 220 | 30 |
| Future Vol, veh/h | 35 | 65 | 95 | 215 | 220 | 30 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | 0 | 0 | - | - | 0 |
| Veh in Median Storage, \# | 0 | - | - | 0 | 0 | - |
| Grade, \% | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, $\%$ | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 38 | 71 | 103 | 234 | 239 | 33 |



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 3.4 |  |  |  |  |  |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | $\mathbf{Y}$ |  | $\mathbf{4}$ | $\mathbf{7}$ | $\mathbf{1}$ | 4 |
| Traffic Vol, veh/h | 85 | 65 | 245 | 125 | 60 | 225 |
| Future Vol, veh/h | 85 | 65 | 245 | 125 | 60 | 225 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | 273 | 305 | - |
| Veh in Median Storage, \# | 0 | - | 0 | - | - | 0 |
| Grade, \% | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, $\%$ | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 92 | 71 | 266 | 136 | 65 | 245 |





| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 4.9 |  |  |  |  |  |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | 个 | $\mathbf{7}$ |  | 4 | $\mathbf{1}$ | $\mathbf{F}$ |
| Traffic Vol, veh/h | 65 | 85 | 187 | 80 | 55 | 142 |
| Future Vol, veh/h | 65 | 85 | 187 | 80 | 55 | 142 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | Free |
| Storage Length | - | 175 | 195 | - | 50 | 0 |
| Veh in Median Storage, \# | 0 | - | - | 0 | 0 | - |
| Grade, \% | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 71 | 92 | 203 | 87 | 60 | 154 |



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 3 |  |  |  |  |  |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | $\mathbf{1}$ | $\mathbf{7}$ |  | $\mathbf{4}$ | 个 | $\mathbf{7}$ |
| Traffic Vol, veh/h | 44 | 68 | 67 | 153 | 217 | 55 |
| Future Vol, veh/h | 44 | 68 | 67 | 153 | 217 | 55 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | 0 | 0 | - | - | 0 |
| Veh in Median Storage, \# | 0 | - | - | 0 | 0 | - |
| Grade, \% | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, $\%$ | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 48 | 74 | 73 | 166 | 236 | 60 |



| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |









| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 3.8 |  |  |  |  |  |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | $\mathbf{M}$ |  | $\mathbf{4}$ | $\mathbf{7}$ | $\mathbf{1}$ | 4 |
| Traffic Vol, veh/h | 85 | 78 | 280 | 125 | 75 | 265 |
| Future Vol, veh/h | 85 | 78 | 280 | 125 | 75 | 265 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | 273 | 305 | - |
| Veh in Median Storage, \# | 0 | - | 0 | - | - | 0 |
| Grade, \% | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, $\%$ | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 92 | 85 | 304 | 136 | 82 | 288 |





## THE SHOPS AT BENNETT SUBDIVISION, AMENDMENT NO. 1

A REPLAT OF TRACT A, THE SHOPS AT BENNETT SUBDIVISION,
A PART OF THE SE $1 / 4$ OF SECTION 28, TOWNSHIP 3 SOUTH, RANGE 63 WEST OF THE 6TH PRINCIPAL MERIDIAN, TOWN OF BENNETT, COUNTY OF ADAMS, STATE OF COLORADO

SHEET 1 OF 3


PURPOSE STATEMENT
PURPOSE STATEMENT
TRACPLAT ALL OF TRACT A, THE SHOPS AT BENNETT SUBDIVISION, INTO FIVE LOTS AND ONE
TRA

## OWNERSHIP AND DEDICATION

NOW BY ALL PERSONS BY THESE PRESENTS, THAT THE UNDERSIGNED BEING THE OWNER OF
TRACT A, THE SHOPS AT BENNETT SUBDIVIIION, A AUBDIVISION RECORDED AT RECEPTION NO.
2021000112038 OF TH RECORDS OF ADMMS COUTY COLRAD 2021000112038 OF THE RECORDS OF ADAMS COUNTY, COLORADO, SITUATED IN THE SOUTHEAS
$1 / 4 \mathrm{~F}$ SECTION 28 , TOWNSHIP 3 SOUTH, RANGE 63 WEST OF THE SIXTH PRINCIPAL MERIDAN, TOWN OF BENNETT, COUNTY OF ADAMS, STATE OF COLORADO.
HAVE LAID OUT, SUBDIVIDED AND PLATTED SAID LAND AS PER DRAWING HEREON CONTAINED
UNDER THE NAME AND STYLE OF THE SHOPS AT BENNETT SUBDIVISION, AMENDMENT NO. 1, A

 ACCOMPANYING PLAT FOR THE PUBLIC USE THEREOF FOREVER AND DOES FURTHER DEDICATE TO THE USE OF THE TOWN OF BENNETT AND ALL SERVING PUBLIC UTLITIIES (AND
APPRORRITE ENTIISS) HHOSE EPRTONS OF SAID REAL PROPERTY WHICH ARE SO APPROPRIATE ENTITES) THOSE PORTIO
DESIGNATED AS EASEMENTS AS SHOWN.

IT IS EXPRESSLY UNDERSTOOD AND AGREED BY THE UNDERSIGNED THAT ALL EXPENSES AND
COSTS INVOLVED IN CONSTRUCTING AND INSTALLING SANTARY SEWER SYSTEM WORKS COST INVOLVED IN CONSTRUCTTNG AND INSTALLING SANITARY SEWER SYSTEM WORKS AND LINES, STORM DRAINAGE WORKS AND LINES, WATER SYSTEM WORKS AND LINES, GAS
SERVICE LINES, ELECTRICAL SERVICE WORKS AND LINES, LANDSCAPING, CURBS, GUTIERS, STREET PAVEMENT, SIDEWALKS, AND OTHER UTLLTTES AND SERVICES SHALL BE GUARANTEED
AND PAID FOR BY THE SUBDVIDER OR ARRANGEMENTS MADE BY THE SUBDIVIDER THEREOF WHICH ARE APPROVED BY THE TOWN OF BENNEIT, COLORADO, AND SUCH SUMS SHAL NOT BE PAID BY THE TOWN OF BENNETT, AND THAT ANY ITEM SO CONSTRUCTED ORINSTALLED WHEN ACCEPTED BY THE TOWN OF BENEET SHALL BECOME THE SOLE PROPERTY OF SAID
TOWN OF BENNETT, COLORADO, EXCEPT PRIVATE ROADWAY CURBS, GUTTER AND PAVEMENT AND ITEMS OWNEDBY MUNIICPALLTK FRANCHISED UTILTITES, OTHERS SERVVNG PUBLLC ENTITIES,
WHICH WHEN CONSTRUCTED OR INSTALLED SHALL REMAIN ANDOR BECOME THE WHICH WHEN CONSTRUCTED OR INSTALLED SHALL REMAIN AND/OR BECOME THE
PROPERTY OF SUCH MUNICIPALTY FRANCHISED UTLITIES, OTHER SERVING PUBLIC ENTITIES PROPERTY OF SUCH MUIICIPALITY RRANCHIIED UTIITIISS, OTHER SERVING PUBLI
AND SHALL NOT BECOME THE PROPERTY OF THE TOWN OF BENNET, COLORADO.

## WNERSHIP CERTIFICATE

N WITNEES THEREOF, SHOPS AT CIVIIC CENTER PARK LCC, A COLORADO CORPORATION HAS
OWNER: SHOPS AT CIVIC CENTER PARKLC,

## BY: $\begin{aligned} & \text { FORREST CHARLESWORTH } \\ & \text { MANAGING, MANAGER }\end{aligned}$

${ }^{\text {STATEST: }}$
COUNTY OF_, iss
THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS___ DAY OF 2O22, BY FORREST CHARIESWORTH, MANAGING MANAGER OF SHOPS AT CVIC CENTER PARK LC, A COLORADO CORPORATION

LLC, A
$\qquad$
$\qquad$
general notes:

1. THE ENTIRE PROPERTY IS LOCATED IN ZONE X, AS SHOWN ON THE FLOOD INSURANCE RATE MAP (FFRM)
FOR ADAMS COUNTY COLORADO MAP NUMBER 718 , COMMUNITY NUMBER O8001CO718H REVISED DATE MARCH TTH, 2007.
2. NOTICE: ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE Y YARS A ATER YOU FIRST DISCOVER SUCH DEFECT. IN NO EVENT MAY ANY ACTION BASED UPON ANY DEFECT IN THIS S
FROM THE DATE OF CERTIFICATION SHOWN HEREON.
3. A BLANKET DRAINAGE EASEMENT, EXCLUDING BULLING FOOTPRINTS AND EXCLUSIVE EASEMENTS, IS
HEREBY GRANTED TO AND BETWEEN ALL LOTS AND TRACTS WITHIN THE SUBDIVIIION FOR THE PURPOSES

 RESPONSIBLE FOR MAINTENANCE OF THE EASEMENT AREA.
 SOUTHEAST CORNER OF SAID SECTION (MONUMENTED WITH A $21 / 2$ ALUM. CAP PLS 25379 IN MONUMEN
BOX) TO THE EAST T1/4 CORNER OF SAID SECTION (MONUMENTED WTH A2 $1 / 2$ ALUM CAP PLS 23027)
 EASEMENTS OR ENCUMBRANCES THAT AFFECT TH.
WAS NOT DONE BY RIDGELINE LAND SURVEYING.
4. ALL LAND USE APPROVALS AND BULLDING PERMITS FOR THE DEVELOPMENT DESCRIBED HEREIN SHALL
BE SUBJECT TO REQUIREMENTS INCLUDING BUT NOT LIMTED TO: THE PAYMENT OF IMPACT FEES AND

 IN EFFECT AT THE TIME THAT SUCH PROPOSED DEVELOPMENT APPLIES FOR A BULLDING PERMIT.
5. LINEAL DIMENSIONS SHOWN HEREON ARE U.S. SURVEY FOOT. 10. UNLESS SHOWN OR NOTED OTHERWIIEE, ALL EASEMENTS WIf
THAT WERE PREVIOUSLY GRANTED SHALL REMAIN. 11. TRACT A AND TRACT B SHALL BE OWNED AND MAINTAINED BY indicate such. LL. IT, ITS
 INGRESS AND EGRESS FROM AND TO SAID TRACTS. THE TOWN SHALL HAVE THE RIGHT, BUT NOT THE OBLIGATION, TO MAINTAIN, OPERATE, REPAIR AND RECONSTRUCT THE TRACT AND RELATED FACLLITIES
WHEN THE OWNER(S) FAILTO ADEQUATELY MAINTAIN SUCH TRACTS AND RELATED FACLITIES, WHICH MAINTENANCE, OPERATION AND RECONSTRUCTION SHALL BE AT THE COST OF SHOPS AT CIVIC CENTER LLC. Delete this note. It
6. THIS PLAT DEDICATES TRACTATOTHE TO will not be dedicated URE STREET RIGHT-OF-WAY
 OWNERS SHALL BE RESPONSIBLE FOR THE MAINTENANCEOF ALL DRAINAGE FACILTTES INCLUDING INLETS, PIPES, CULVERTS, CHANNELS, DITCHES, HYDRAULLC STRUCTURES, AND DETEN
THERR LAND UNLESS MODIFED BY A SUBDVIIIION AGREEMENT OR DEVELOPMENT AGREEMENT. SHOUD
 THE OBLIGATION TO ENTER SAID LAND FOR THE SOLE PURPOSE OF OPERATIONS
SUCH MANTENANCE COSTS WILL BE ASSESSED TO THE PROPERTY OWNER(S).
7. SURFACED ACCESS ROADS CAPABLE OF WITHSTANDING THE IMPOSED LOADS OF FIRE APPARATUS AND ALL REQUIRED FIRE HYDRANTS SHALL BE INSTALLED AND MADE SERVICEABLE PRIOR TTO AND DURING
8. ALL INTERNAL ROAD AND DRAINAGE FACILITY CONSTRUCTION SHALL BE IN ACCORDANCE WITH STREET CONSTRUCTION PLANS, PAVEMENT DESIGN, GRADING AND EROSION CONTROL PLANS, A FINAL DRAINAG
PLAN AND ALL APPLICABLE TOWN ADOPTED STANDARDS AND SPECIFICATIONS SUBMITED TO AND PLAN AND ALL APPLIIABLE TOWN ADOP
APPROVED BY THE TOWN OF BENNETT.
9. THIS PLAT IS SUBJECT TO THE TERMS AND CONDITIONS OF THE SUBDIVISION AGREEMENT (SA)
 SUBDVIIION AGGEEMENT IDENTIFIES AND GUARANTEES PUBLLC IMPROVEMENTS, INCLLDING BUT NOT
LIMITEDTO STREETS, SIDEWALKSTRALLS WATER, SANITAR SEWER ANE STORM WATER MANAGEMENT IS
REQURED PRIOR TO THE ISSUANCE OF AN INERASTRUCTURE PERMIT.

Add: UTILITIES

- Improvements on all lots are subject to the site plan process
pursuant tod.
a mended.
- Total developed building square footage in this subdivision is lim
- Total developed building square footage in this subdivision is lim
to sixty-two thousand ( 62,000 ) square feet and no buildings can to sixty-two thousand (62,000) square feet and no buildings can
exceed thirty ( 30 ) feet without an approved second vehicular access generali ${ }^{\text {the }}$ subdivision
. THERE-Add a note that allows for shared parking between individual lots, AREAS, R OTI
SUBDIVIION.

17. NON-EXCLUSIVE UTLITY EASEMENTS LOCATED AS SHOWN ARE HEREBY GRANTED FOR THE INSTALLATION, MAINTENANCE, AND OPERATION OF UTILTIES ELECTRIC LINES, GAS LISES, CABLE TELEVISION LINES, FIBER OPTIC LINESS, AND
 INSTALLATION, MAINTENALAEE, AND REPLACEMENT OF SUCHLLINES. WINDOW
WELLS, PATIOS, DECKS, STARS, RETAINING WALLS, AND THEIR COMPONENTS MAY

18. SIGHT DISTANCE EASEMENTS ARE HEREBY DEDICATED TO THE TOWN OF
BENNETT FOR SIGHT DISTANCE PURPOSES TOGETHER WITH THE FOLLOWING RESTRICTIONS OVER SAID EASEMENTS: NO OBJECT WITHIN THE SIGHT DISTANC EASEMENTS SHALL BE MORE THAN THIRTY SIX INCHES ABOVE THE FLOWLINE OF
THE ADJACENT STREET. SUCH OBJECTS SHALL INCLUDE BUT NOT BE LIMITED TO BUILDINGS, VEGETATION, AND UTLITY CABINETS. PARKING IS ALSO RESTRICTED

- 

19. EASEMENTS SHOWN AND IDENTIFIED ON "AS-PLATTED" DEPICTION WERE RECORDED AT RECEPTION NO. 2021000112038 OF THE RECORDS OF ADAMS COUNTY, UNLESS SHOWN OTHERWISE.

## OWN APPROVAL BLOCK <br> THI IS TO CERTIFY THAT THE PLAT OF THE SHOPS AT BENNETT SUBDIVIIION, AMENDMEN NO.1" WAS APPROVED ON THE DAS DAY OF DO2, BY RESOLUTION NO. HE TOWN OF BENNEITONBEHALF OF THE TOWNOF AEENNETT, HEREBY

 ACKNOWLEDGES SAID PLAT UPON WHALL PURPOSES INDICATED THEREON.

```
\(\overline{\text { MAYOR }}\)
```

ATTEST: TOWN CLERK

## URVEYOR'S CERTIFICAT

I. JAMES F. LENZ, A REGISTERED SURVEYOR IN THE STATE OF COLORADO, DC HEREBY CERTIFY THAT THIS PLAT WAS MADE BY ME OR UNDER N
SUPERVISION ON THE 10TH DAY OF JANUARY 2022, AND THAT THE ACCOMPANYING MA PACCURATELY AND PROPERLY SHOWS SAID SUBDIVIIION
SIGNED THIS

- DAY OF $\qquad$
PROFESSIONAL LAND SURVEYOR
REGISTRATION NUMBER 34583
REGISTRATION NUMBER 3458
FOR AND ON BEHALF OF
ROR AND ON BEHALF OF


|  | PREPARATION DATE TOWN COMMENTS | $\begin{aligned} & 1 / 1 / 2022 \\ & \hline 4 / 5 / 2022 \end{aligned}$ |
| :---: | :---: | :---: |
| N |  |  |
| (1) Midgeline |  |  |
| Land Surveving |  |  |
|  |  |  |
| 4345 BEVERLY STREET, UNIT |  |  |
| COLORADO SPRINGS, CO 80918 |  |  |
| TEL: 719.238.2917 |  |  |

THE SHOPS AT BENNETT SUBDIVISION, AMENDMENT NO. 1
A REPLAT OF TRACT A, THE SHOPS AT BENNETT SUBDIVISION,
A PART OF THE SE 1/4 OF SECTION 28, TOWNSHIP 3 SOUTH, RANGE 63 WEST OF THE 6TH PRINCIPAL MERIDIAN, TOWN OF BENNETT,

COUNTY OF ADAMS, STATE OF COLORADO
SHEET 2 OF 3


## THE SHOPS AT BENNETT SUBDIVISION, AMENDMENT NO. 1

a replat of tract a, the shops at bennett subdivision,
a part of the SE $1 / 4$ of SECTION 28, TOWNSHIP 3 SOUTH, RANGE 63 WEST



| LAND USE TABLE |  |
| :--- | :---: |
| GROSS ACREAGE | 4.170 |
| TRACT A ACREAGE | $1 / 0.113$ |
| NUMBER OF LOTS / ACREAGE | $5 / 4.057$ |
| NET ACREAGE FOR PUBLIC STREETS | 0 |
| NET ACREAGE FOR PRIVATE USE | 4.057 |
| NET ACREAGE TOWN OF BENNETT - ROW | 0.113 |



> The Town is willing to support the one access into the subbivivision from Centennial as long as an appropriate turnaround satisfactory to Bennett-Watkins Fire is provided. We think you can avoid a full lucl-de-sac; however, in return, we need an enhanced pedestrian connection to the south property line and also east to S. sst. St./Hwy T9. This must be conceptually designed and coste testimates included in the eventual subdivision agreement (SA).

TERRAMAX, INC.

# Engineering Review Memo 

To: Steve Hebert, Town Planning \& Economic Development Director<br>Sara Aragon, Community Development Manager<br>From: Dan Giroux, PE, Engineering Consultant to the Town<br>Date: Monday, August 22, 2022<br>Case: $\quad$ Shops at Bennett, Major Subdivision Plat, Case 22.11-2 ${ }^{\text {nd }}$ Submittal<br>Subject: Civil Engineering Review

## Review Memo Only - no Replat redlines provided for this $2^{\text {nd }}$ Submittal review.

Per the request of the Town of Bennett, Terramax, Inc. has reviewed the 2nd submittal of the Major Subdivision Plat application materials, for the proposed Shops at Bennett Subdivision development.

This review does not constitute a contractual offer to the applicant, and does not relieve the applicant from meeting the Town's requirement that the development comply with all Town Codes and Standards. All prior comments on the development application are still considered effective and in force, until acceptably addressed.

Although every attempt has been made to be diligent, thorough and comprehensive, by the nature of review, and relative time invested versus design and plan development, the Town must reserve the right to make original comments and revision requests in subsequent submittals, even for information already submitted, until final application approval.

I have the following comments to offer on the application materials (no plan redlines included for this submittal at this time):

## Final Plat \& General

1. Undergrounding of the SH 79 IREA-CORE power overhead lines will be addressed with the Subdivision Agreement (SA) for public improvements required with this subdivision.
2. State Highway 79 widening to full/ultimate build-out western half-section will be addressed with the Subdivision Agreement (SA) for public improvements required with this subdivision.

## Water System

1. Submittal 1 comments and responses to carry through to Public Improvement Construction Documents (PI CD's) and SA. No further comments.
2. Confirm 'private easement' v 'public easement' for emergency access and utility access, including sanitary sewer, water, and fire hydrants.

## Sanitary Sewer System

1. Submittal 1 comments and responses to carry through to PI CD's and SA. No further comments.

## Streets \& Access

1. Submittal 1 comments and responses to carry through to PI CD's and SA.
2. I am amenable to phasing of the north-south access drive extension, and Bennett Avenue connection, as warranted by Lot development traffic loading, and as reviewed by the Town Traffic Engineer.
3. Emergency vehicle access and circulation may be addressed with ensuing Lot development Site Plans, including parking lots and potential drive lane circulation.
4. These terms can be addressed with the SA provisions for development phasing proposals.
5. Based on observed Filing 1 Punch List and close-out conditions, the west utility corridor is expected to require a new Centennial Drive service driveway cut, sidewalk crossing, and allweather surfacing, for utility access, maintenance and service.

- Maintenance of this area will remain with the property owner.

6. The Centennial Drive driveway cut and sidewalk crossing reconstruction should incorporate a stormwater inlet to intercept and divert Centennial Drive street flows into the existing 36-inch south-to-north CSP storm sewer.
7. With Centennial Drive-79 intersection upgrades, existing affected and adjacent curb \& gutter conditions should be reviewed, and deteriorated curb \& gutter removed and replaced.

## Stormwater

1. Submittal 1 comments and responses to carry through to PI CD's and SA.
2. Based on observed Filing 1 Punch List and close-out conditions, the west utility corridor is expected to require storm inlets to collect surface flows and protect adjacent residential lots to the west.

- A drain pan with all-weather surfacing may also be acceptable.

3. Based on observed Filing 1 Punch List and close-out conditions, the stormwater detention pond will require future expansion to attain full build-out volume capacity, unless final lot development hardscape areas are reduced from initial subdivision estimates, and related original pond design.
4. Based on observed Filing 1 Punch List and close-out conditions, the stormwater detention pond overflow will be re-evaluated for outflow near the subdivision north-south drive lane, to Centennial Drive, to better protect the west utility corridor and residential lots further west.

Steve, Sara, this concludes my civil engineering review of the 2nd Submittal application materials for the Shops at Bennett Major Subdivision Plat. Please let me know if you have any questions, or require additional information pertaining to the submitted information, or my review.

Memorandum

9191 J amaica Street Englewood, CO 80112
United States T +1.303.771.0900
www.jacobs.com

| Subject | The Shops at Bennett Subdivision, Amendment No. 1 |
| :--- | :--- |
| Attention | Steve Hebert, AICP, Bennett Planning \& Economic Development Manager |
|  | Sara Aragon, Community Development Manager |
| From | Mike Heugh, PE |
|  | Town Traffic Engineer |
| Date | August 17, 2022 |
| Copies to | Dan Giroux, PE, Engineering Consultant to the Town |

The Shops at Bennett Subdivision Replat, Amendment No. 1 (04/05/22) - Town Traffic Comments

1. No comments

## Shops at Bennett Square TIA (dated 07/12/22) - Town Traffic Comments

1. I'm concerned with the left-turn lanes on SH 79 and what CDOT is going to allow and what is in the best interest of the Town. Looking at the CDOT data provided (pages $20 \& 21$ ), the 35 mph to 45 mph change is somewhere along the frontage of Shops. State Highway Access Code says that for deceleration lanes, the speed at the beginning of the lane should dictate the length. Can it be determined where this speed change takes place to better stripe the left-turn lanes on SH 79? 35 mph would allow the left turn lane to be taper + storage, shorter than what is being proposed. Also, SHAC says that the taper should be reduced first when overall length requirements can't be met. If requirements can't be met, is there a recommendation to reduce the taper and provide more? I'm happy to discuss further if needed.
2. Civil construction drawings show center left turn lanes are 14'. The 162 ' taper shown within this report is based on a 12 ' shift. This comment was made on civil plans. Please coordinate with designers on what that shift actually is. This ties to previous comment on speed limit where these tapers are taking place.
3. For future reports please detail recommended improvements in your conclusion section. Using this report as a specific example, the report simply says, "with recommended improvements shown in Figure 10." It is easier for reviewer and other readers of these reports that the conclusion section states the recommendations. Specific details, such as turn lane lengths, etc. can be shown in figures. No revision to this report is necessary and I don't see this as a consistent issue in reports by this author. Simply stating my preference as the reviewer.

## Memorandum

The Shops at Bennett Subdivision, Amendment No. 1

The Shops at Bennett Subdivision Amendment No. 1, Construction Drawings (07/18/22) - Town Traffic Comments

## General Comments

1. Please add a signing and striping sheet in the plan set which gives a clearer view of what is happening with traffic control. The details for signing and striping elements should be removed from other sheets unless they are needed for some reason.
2. With the new curb return at Centennial Ave, the existing stop sign needs to be reset. Please add this to the plans.
3. Is there crosswalk striping across Centennial Ave? Aerial photos don't show it. If it is existing and being extended as shown on sheet 10 , this needs to be called out and detailed.
4. Is striping being proposed on Centennial Ave? Page 10 shows striping in bold so I'm assuming this is proposed. This needs to be detailed with stationing and line types

## Page 9

1. Stop signs at the roadway bend aren't needed. Please remove.

## Page 10

1. Change callout for SBR at Bennett Ave to "Lane Drop" from "Dashed". This should be 8 " instead of 4 ".
2. Turn arrows need to be called out and stationed. Locations based on CDOT standards.
3. Removal of existing striping required to stripe the NBL at Bennett Ave should be callout out. New striping needs callout.
4. Add "Right Lane Must Turn Right" sign (R3-7) to the SBR lane at Bennett Ave. To be placed where drop line turns to channelizing.
5. Plan shows the re-direct taper to be 162 ' which is based on $13.5: 1$ and a 12 ' shift. The center left turn lanes are $14^{\prime}$ which would increase this re-direct taper. Please verify what the shifting distance is and revise if necessary.

Traffic \& Safety
Region 1
2829 W. Howard Place
Denver, Colorado 80204
位, Colorado 80204

Project Name: Shops at Bennett Square

|  |  | Highway: | Mile Marker: |
| :---: | :---: | :---: | :---: |
| Print Date: | 8/15/2022 | 079 |  |

Project Name: Shops at Bennett Square

COLORADO
Department of Transportation

Drainage Comments:
No new comments; previous comments still stand

## Environmental Comments:

For ANY ground disturbance/work within CDOT ROW---
Required:
Arch/History/Paleo:
Since this is a permit, a file search for Arch and History is required. If the file search identifies anything, a more extensive report will be required. If nothing is identified, then the file search should be sufficient. For the file search contact:

Cultural/History File Search: http://www.historycolorado.org/oahp/file-search email: hc_filesearch@state.co.us
Paleo File Search: https://www.colorado.edu/cumuseum/research-collections/paleontology/policies-procedure and https://www.dmns.org/science/earth-sciences/earth-sciences-collections/

The ECIS will be used to support HazMat requirements.
Non-historic 4 f does not apply.
If any non-historic $6 f$ properties will be impacted or disturbed applicant shall coordinate with Veronica McCall veronica.mccall@state.co.us

Info for Applicant/Contractor:
The Permittee shall complete a stormwater management plan (SWMP) which must be prepared with good engineering, hydrologic, and pollution control practices and include at a minimum the following components: qualified stormwater manager; spill prevention and response plan; materials handling; potential sources of pollution; implementation of control measures; site description; and site map.

In addition, the Permittee shall comply with all local/state/federal regulations and obtain all necessary permits. Permittee shall comply with CDOT's MS4 Permit. When working within a local MS4 jurisdictional boundary, the permittee shall obtain concurrence from the local MS4 that the local MS4 will provide construction stormwater oversight. The local MS4 concurrence documentation shall be retained with the SWMP.

Clear Zone: It is the responsibility of the engineer/architect who stamps the plans to ensure that: any new landscaping/trees are outside of the clear zones for any State Highway/CDOT ROW and that the new landscaping/trees do not interfere with site lines from any State Highway/CDOT ROW.

Landscape: Any new or changes to existing landscaping within CDOT ROW must be reviewed and approved by CDOT. Landscaping plans should be submitted and should include details of all proposed plant species and seed mixes/ratios.

8/1/2022: Once the above mentioned items are received Environmental review will continue.

## Traffic Comments:

Why is there a stop sign at Station $13+50$ ? This seems not needed.

In the TIS provide Queue analysis. Use methodology per NHCRP 457 for left turn queues.

We need some discussion in the TIS about the spacing of the full movement intersection. This doesn't meet the $1 / 2$ mile spacing based on the State Highway Access Code. The discussion should include safety and operations on why this can be allowed.

Jason Igo 8/11/2022

Right of Way Comments:

## Resident Engineer Comments:

8/8/22 CLJ
-Please provide a typical section showing the proposed SH -79 configuration.
-If the project intends to change the profile of $\mathrm{SH}-79$ in this area, curves will be required for any grade difference greater than $0.2 \%$.

## Permits Comments:

Need CDOT details for all work in the CDOT ROW. Label ramp types. Include pavement section detail. All thermoplastic is inlaid. CDOT ROW varies is not correct. Show and label CDOT ROW and label as such. 3rd party inspection required. RLW Aug 12022

## RE: Shops at Bennett, Major Subdivision Plat

Brooks Kaufman [BKaufman@core.coop](mailto:BKaufman@core.coop)
Wed, Mar 30, 2022 at 11:16 AM
To: Town of Bennett Planning [planning@bennett.co.us](mailto:planning@bennett.co.us)

Steve

CORE Electric Cooperative has no comments.

Respectfully

## Brooks Kaufman

Lands and Rights of Way Manager
800.332 .9540 MAIN
720.733.5493 DIRECT
303.912.0765 MOBILE
www.core.coop.


The Energy to Thrive ${ }^{\text {m }}$

## OOも(10)

From: Town of Bennett Planning [planning@bennett.co.us](mailto:planning@bennett.co.us)
Sent: Monday, March 14, 2022 10:59 AM
To: United States Postal Service [sarah.e.zawatzki@usps.gov](mailto:sarah.e.zawatzki@usps.gov); Bennett School District 29J ATTN: Robin Purdy [robinp@bsd29j.com](mailto:robinp@bsd29j.com); Bennett School District 29J: ATTN: Jennifer West [jenniferw@bsd29j.com](mailto:jenniferw@bsd29j.com); Bennett School District 29J: ATTN: Keith Yaich [keithy@bsd29j.com](mailto:keithy@bsd29j.com); Robin Price [rprice@bennett.co.us](mailto:rprice@bennett.co.us); Daymon Johnson [djohnson@bennett.co.us](mailto:djohnson@bennett.co.us); Bennett Rec District [director@bennettrec.org](mailto:director@bennettrec.org); Victoria Flamini <VictoriaFlamini@

Page 127 bennettfirerescue.org>; Bennett Watkins Fire Rescue [calebconnor@bennettfirerescue.org](mailto:calebconnor@bennettfirerescue.org); Marilyn Cross - CDOT [Marilyn.Cross@state.co.us](mailto:Marilyn.Cross@state.co.us); Colorado Department of Transportation (CDOT) Assistant Access Manager [david.dixon@state.co.us](mailto:david.dixon@state.co.us); JGutierrez@summitutilitiesinc.com; GVanderstraten@summitutilitiesinc.com; Brooks

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Subject: Shops at Bennett, Major Subdivision Plat


Hello All,

Below is a Dropbox link to the Shops at Bennett, Major Subdivision Plat referral package. We appreciate your review and comments. Please send your comments back via this email address or by mail to Town Hall by April 4, 2022.
https://www.dropbox.com/sh/1w1od7fliyy9yja/AACZijfPPfgXVKZ5NweWr-Uma?dl=0

If you have any questions, please email or call Steve Hebert at shebert@bennett.co.us or the phone number below.


Planning Department
207 Muegge Way I Bennett CO, 80102 (303)644-3249 | planning@bennett.co.us townofbennett.colorado.gov

## Melinda A. Culley

(303) 298-1601 tel
(303) 298-1627 fax
melinda@kellypc.com

# MEMORANDUM 

TO: Bennett Planning Department
FROM: Melinda Culley /s/
DATE:
August 16, 2022

RE: $\quad$ Shops at Bennett Subdivision, Amendment No. 1

I reviewed the Final Plat for the Shops at Bennett, and have the following comments:

1. Notes 11 and 12 are confusing. One note states that the will own Tract A while the other note indicates that Tract A will be dedicated to the Town. Note 11 mentions that Tract B will be owned and maintained by the, but Sheet 3 indicates that Tract B is not part of this subdivision.
2. Has the Town received an updated title commitment for the property? If not, please provide one.

## BENNETT PLANNING AND ZONING COMMISSION

RESOLUTION NO. 2022-17

## A RESOLUTION RECOMMENDING APPROVAL OF A FINAL PLAT FOR THE SHOPS AT BENNETT SUBDIVISION, AMENDMENT NO. 1

WHEREAS, there has been submitted to the Planning and Zoning Commission of the Town of Bennett a request for approval of a Final Plat for the Shops at Bennett Subdivision, Amendment No. 1; and

WHEREAS, all materials related to the proposed Final Plat have been reviewed by Town Staff and found with conditions to be in compliance with Town of Bennett subdivision and zoning ordinances; and

WHEREAS, after a noticed public hearing, at which evidence and testimony were entered into the record, the Planning and Zoning Commission finds that the proposed Final Plat should be approved subject to certain conditions.

NOW, THEREFORE, BE IT RESOLVED BY THE PLANNING AND ZONING COMMISSION OF THE TOWN OF BENNETT, COLORADO:

Section 1. The Planning and Zoning Commission hereby recommends approval of the proposed Final Plat for the Shops at Bennett Subdivision, Amendment No. 1, subject to the conditions set forth on Exhibit A, attached hereto and incorporated herein by reference.

PASSED AND ADOPTED this 19th DAY OF SEPTEMBER 2022.

## ATTEST:

Christina Hart, Secretary
Chairperson

EXHIBIT A
Final Plat for the Shops at Bennett Subdivision, Amendment No. 1 Conditions of Approval

1. Approval of a subdivision agreement (SA) that identifies and guarantees public improvements, including but not limited to streets, sidewalks/trails, water, sanitary sewer, storm water management and undergrounding utilities prior to the issuance of an infrastructure permit.
2. Before recording the final plat, the applicant shall:
a. Update plat notes related to easements; maintenance and required site plan review;
b. Make other minor modifications as directed by Town Staff, the Town Engineer and Town Attorney

## Suggested Motion

I move to approve Resolution No. 2022-17-A resolution recommending approval of a Final Plat for The Shops at Bennett Subdivision, Amendment No. 1.

