

A G E N D A
WORK SESSION MEETING
City of Moberly
August 02, 2021
6:00 PM

Requests, Ordinances, and Miscellaneous

1. Appointment To The Moberly, Missouri Public Building Corporation.
2. An Ordinance Establishing The Tax Levy For The City of Moberly, Missouri For The Year 2021.
3. David Korb Has Contacted The City Wishing To Quit Claim Deed 905 Bond To The City.
4. Timmy L. and Connie L. Morgan has contacted The City wishing To Quit Claim Deed 812 W Reed To The City.
5. Cost Share Funds To Widen Business 63 And Add A Center Turn Lane From Burkhart Street To Carpenter Street.
6. Receipt Of Bids For The Aquatic Center Repainting.
7. Robert J. O'Loughlin Has Requested Five (5) Properties From The City For Re-Development.

City of Moberly

City Council Agenda Summary

Agenda Number: _____
 Department: City Clerk
 Date: August 2, 2021

WS #1.

Agenda Item: Appointment to the Moberly, Missouri Public Building Corporation.

Summary: John Meystrik's term expires October 1, 2021. He has indicated that he wants to be re-appointed (See attached).

Recommended Action: Re-appoint John Meystrik to the Moberly, Missouri Public Building Corporation at the next Council Meeting.

Fund Name: N/A

Account Number: N/A

Available Budget \$: N/A

ATTACHMENTS:

___ Memo	___ Council Minutes
___ Staff Report	___ Proposed Ordinance
___ Correspondence	___ Proposed Resolution
___ Bid Tabulation	___ Attorney's Report
___ P/C Recommendation	___ Petition
___ P/C Minutes	___ Contract
___ Application	___ Budget Amendment
___ Citizen	___ Legal Notice
___ Consultant Report	___ Other _____

Role Call

Aye **Nay**

Mayor

M___ S___ **Jeffrey** _____

Council Member

M___ S___ **Brubaker** _____

M___ S___ **Kimmons** _____

M___ S___ **Davis** _____

M___ S___ **Kyser** _____

Passed Failed

My term for the Moberly, Missouri, Public Building Corporation expires this year. I wish to be reappointed to the Moberly, Missouri, Public Building Corporation Board.

Thank you,



John Meystrik

07/19/2021

Date

City of Moberly

City Council Agenda Summary

Agenda Number: _____
Department: City Clerk
Date: August 2, 2021

WS #2.

Agenda Item: An Ordinance establishing the Tax Levy for the City of Moberly, Missouri for the year 2021.

Summary: This Ordinance is in compliance with Missouri State Statutes and must be adopted by September 1 of each year in order to collect taxes for the year.

Recommended

Action: Approve the Ordinance at the next Council Meeting.

Fund Name: N/A

Account Number: N/A

Available Budget \$: N/A

ATTACHMENTS:

<input type="checkbox"/> Memo	<input type="checkbox"/> Council Minutes
<input type="checkbox"/> Staff Report	<input checked="" type="checkbox"/> Proposed Ordinance
<input type="checkbox"/> Correspondence	<input type="checkbox"/> Proposed Resolution
<input type="checkbox"/> Bid Tabulation	<input type="checkbox"/> Attorney's Report
<input type="checkbox"/> P/C Recommendation	<input type="checkbox"/> Petition
<input type="checkbox"/> P/C Minutes	<input type="checkbox"/> Contract
<input type="checkbox"/> Application	<input type="checkbox"/> Budget Amendment
<input type="checkbox"/> Citizen	<input type="checkbox"/> Legal Notice
<input type="checkbox"/> Consultant Report	<input type="checkbox"/> Other _____

Role Call

Aye **Nay**

Mayor

M___ S___ **Jeffrey** _____

Council Member

M___ S___ **Brubaker** _____

M___ S___ **Kimmons** _____

M___ S___ **Davis** _____

M___ S___ **Kyser** _____

Passed Failed

City of Moberly

City Council Agenda Summary

Agenda Number: _____

Department: Community Development

Date: August 2, 2021

WS #3.

Agenda Item: David Korb has contacted the City wishing to Quit Claim Deed 905 Bond to the City.

Summary: A quit claim deed for 905 Bond St. with David Korb giving the property to the City of Moberly. Attached are the quit claim deed, an O&E report showing the property is clear of any liens or mortgages.

Staff recommends approval of this.

Recommended Action: Direct staff to bring forward to the August 16, 2021 regular City Council meeting for final approval.

Fund Name: N/A

Account Number: N/A

Available Budget \$: N/A

ATTACHMENTS:		Roll Call	Aye	Nay
___ Memo	___ Council Minutes	Mayor		
___ Staff Report	___ Proposed Ordinance	M___ S___ Jeffrey	___	___
___ Correspondence	___ Proposed Resolution			
___ Bid Tabulation	___ Attorney's Report	Council Member		
___ P/C Recommendation	___ Petition	M___ S___ Brubaker	___	___
___ P/C Minutes	___ Contract	M___ S___ Kimmons	___	___
___ Application	___ Budget Amendment	M___ S___ Davis	___	___
___ Citizen	___ Legal Notice	M___ S___ Kyser	___	___
___ Consultant Report	<u>x</u> <u>Other Deed & O&E Report</u>		Passed	Failed

TOWN & COUNTRY ABSTRACT CO., INC.**541 West Coates Suite 101****Moberly, Missouri 65270****Phone 660-263-0425 Fax 660-263-1226****Email brad@townandcountryabstract.com**

July 21, 2021

Ms. Carla Beal
City of Moberly
101 W. Reed Street
Moberly, MO 65270

Dear Carla,

As you requested, we searched the records of Randolph County, Missouri, pertaining to: **Lot Ten (10), Block Six (6) of Barrow's Addition to Moberly, Missouri**. Our search covered the period March 19, 2012, through July 12, 2012, and disclosed the following:

TITLE: Title was vested in **David Korb** by Quit Claim Deed recorded January 9, 2020, in Book 919 at page 1193. *905 Bond*

MORTGAGES: None of record.

MECHANICS' LIENS: None of record.

JUDGMENTS: None of record against David Korb, Rose Land and Finance Corp. or Brandy Lowry.

TAX LIENS: None of record against David Korb, Rose Land and Finance Corp. or Brandy Lowry.

REQUESTS FOR NOTICE OF SALE: None of record.

SPECIAL ASSESSMENTS: Outstanding mowing bill in the amount of \$150.00 on this property as of 7/21/21.

TAXES: Taxes were paid for the year 2019 and prior. 2020 taxes are DELINQUENT. 2020 original tax amount was \$356.92.
Parcel #10-1.0-02.0-1.0-001-101.000

Liability for this Ownership & Encumbrance Report is limited to the price paid the Company for this Report and that maximum liability is limited to the customer who placed the order with us.

Very truly yours,



Brad Goessling

QUIT-CLAIM DEED

THIS INDENTURE, made on the _____ day of _____, 2021 by and between

DAVID KORB, husband and wife, GRANTORS

8086 Winery Court, San Jose, California 95135

County of Santa Clara, State of California, party of the first part and

CITY OF MOBERLY, MISSOURI, A Municipal Corporation, GRANTEE

101 West Reed Street, Moberly, Missouri 65270

County of Randolph, State of Missouri, party of the second part

WITNESSETH, that the said party or parties of the first part, for and in consideration of the sum of **ONE DOLLAR AND OTHER GOOD AND VALUABLE CONSIDERATIONS**, paid by the said party or parties of the second part, the receipt of which is hereby acknowledged, do or does by these presents, **REMISE, RELEASE AND FOREVER QUIT CLAIM** unto the said party or parties of the second part, the following described Real Estate situated in the County of Randolph, and State of Missouri.

All of Lot 10, Block 6 of Barrow's Addition to Moberly, or more commonly known as 905 Bond Street, Moberly, Missouri.

TO HAVE AND TO HOLD THE SAME, with all the rights, immunities, privileges and appurtenances thereto belonging, unto the said party of the second part unto its heirs and assigns forever,

so that neither the said parties of the first part nor their heirs nor any other person or persons, for them or in their names or behalf, shall or will hereinafter claim or demand any right or title to the title to the aforesaid premises or any part thereof, but they and each of them shall, by these presents, be excluded and forever barred.

IN WITNESS WHEREOF, the said parties of the first part have hereunto set their hands and seal the day and year above written.

DAVID KORB, GRANTOR

David Korb

STATE OF _____)
) SS.
 COUNTY OF _____)

On this _____ day of _____, 2021, before me, the undersigned, a notary in the said County, personally appeared **David Korb**, personally known to me who declared themselves to be a married couple and declared that said instrument was signed by them, and acknowledged said instrument to be their free act and deed.

WITNESS my hand and Notarial Seal subscribed and affixed in said COUNTY AND STATE above written.

 Notary Public

My Commission Expires: _____

City of Moberly

City Council Agenda Summary

Agenda Number: _____

WS #4.

Department: Community
Development

Date: August 2, 2021

Agenda Item: Timmy L. and Connie L. Morgan has contacted the City wishing to Quit Claim Deed 812 W Reed to the City.

Summary: A quit claim deed for 812 W Reed St. with Timmy L. and Connie L. Morgan giving the property to the City of Moberly. Attached are the quit claim deed, an O&E report showing the property is clear of any liens or mortgages.

Staff recommends approval of this.

Recommended Action: Direct staff to bring forward to the August 16, 2021 regular City Council meeting for final approval.

Fund Name: N/A

Account Number: N/A

Available Budget \$: N/A

ATTACHMENTS:		Roll Call	Aye	Nay
<input type="checkbox"/> Memo	<input type="checkbox"/> Council Minutes	Mayor		
<input type="checkbox"/> Staff Report	<input type="checkbox"/> Proposed Ordinance	M___ S___ Jeffrey	___	___
<input type="checkbox"/> Correspondence	<input type="checkbox"/> Proposed Resolution			
<input type="checkbox"/> Bid Tabulation	<input type="checkbox"/> Attorney's Report	Council Member		
<input type="checkbox"/> P/C Recommendation	<input type="checkbox"/> Petition	M___ S___ Brubaker	___	___
<input type="checkbox"/> P/C Minutes	<input type="checkbox"/> Contract	M___ S___ Kimmons	___	___
<input type="checkbox"/> Application	<input type="checkbox"/> Budget Amendment	M___ S___ Davis	___	___
<input type="checkbox"/> Citizen	<input type="checkbox"/> Legal Notice	M___ S___ Kyser	___	___
<input type="checkbox"/> Consultant Report	<input checked="" type="checkbox"/> Other <u>Deed & O&E Report</u>		Passed	Failed

TOWN & COUNTRY ABSTRACT CO., INC.

541 West Coates Suite 101

Moberly, Missouri 65270

Phone 660-263-0425 Fax 660-263-1226

Email brad@townandcountryabstract.com

June 16, 2021

Ms. Carla Beal
City of Moberly
101 W. Reed Street
Moberly, MO 65270

Dear Carla,

As you requested, we searched the records of Randolph County, Missouri, pertaining to: **Lot 15, Block 1, Brinkerhoff's Second Addition to the City of Moberly, Missouri.** Our search covered the period August 28, 2002, through June 7, 2021, and disclosed the following:

812 W Reed

TITLE: Title was vested in **Timmy L. Morgan and Connie L. Morgan, husband and wife** by Warranty Deed recorded August 28, 2002, in Book 520 at page 144.

MORTGAGES: None of record.

MECHANICS' LIENS: None of record.

JUDGMENTS: None of record against Timmy L. Morgan or Connie L. Morgan.

TAX LIENS: None of record against Timmy L. Morgan or Connie L. Morgan.


REQUESTS FOR NOTICE OF SALE: None of record.

SPECIAL ASSESSMENTS: Outstanding mowing bill from 8/25/15.

TAXES: Taxes were paid for the year 2020 and prior. 2020 taxes were \$380.66.
Parcel #10-1.0-02.0-1.0-003-104.000

Liability for this Ownership & Encumbrance Report is limited to the price paid the Company for this Report and that maximum liability is limited to the customer who placed the order with us.

Very truly yours,


Brad Goessling

QUIT-CLAIM DEED

THIS INDENTURE, made on the _____ day of _____, 2021 by and between

TIMMY L. MORGAN AND CONNIE L. MORGAN, husband and wife, GRANTORS

1183 County Road 1220, Moberly, Missouri 65270

County of Randolph, State of Missouri, party of the first part and

CITY OF MOBERLY, MISSOURI, A Municipal Corporation, GRANTEE

101 West Reed Street, Moberly, Missouri 65270

County of Randolph, State of Missouri, party of the second part

WITNESSETH, that the said party or parties of the first part, for and in consideration of the sum of **ONE DOLLAR AND OTHER GOOD AND VALUABLE CONSIDERATIONS**, paid by the said party or parties of the second part, the receipt of which is hereby acknowledged, do or does by these presents, **REMISE, RELEASE AND FOREVER QUIT CLAIM** unto the said party or parties of the second part, the following described Real Estate situated in the County of Randolph, and State of Missouri.

All of Lot 15, Block 1 of Brinkerhoff's Second Addition to Moberly, or more commonly known as 812 West Reed Street, Moberly, Missouri.

TO HAVE AND TO HOLD THE SAME, with all the rights, immunities, privileges and appurtenances thereto belonging, unto the said party of the second part unto its heirs and assigns forever,

so that neither the said parties of the first part nor their heirs nor any other person or persons, for them or in their names or behalf, shall or will hereinafter claim or demand any right or title to the title to the aforesaid premises or any part thereof, but they and each of them shall, by these presents, be excluded and forever barred.

IN WITNESS WHEREOF, the said parties of the first part have hereunto set their hands and seal the day and year above written.

TIMMY L. MORGAN, GRANTOR

CONNIE L. MORGAN, GRANTOR

Timmy L. Morgan

Connie L. Morgan

STATE OF MISSOURI)
) SS.
COUNTY OF RANDOLPH)

On this _____ day of _____, 2020, before me, the undersigned, a notary in the said County, personally appeared **Timmy L. Morgan and Connie L. Morgan**, personally known to me who declared themselves to be a married couple and declared that said instrument was signed by them, and acknowledged said instrument to be their free act and deed.

WITNESS my hand and Notarial Seal subscribed and affixed in said COUNTY AND STATE above written.

Notary Public

My Commission Expires: _____

City of Moberly

City Council Agenda Summary

Agenda Number: _____

WS #5.

Department: Comm. Dev.

Date: August 2, 2021

Agenda Item: Cost Share Funds To Widen Business 63 And Add A Center Turn Lane From Burkhart Street To Carpenter Street.

Summary: See attached Council info.

Recommended Action: Direct staff to bring forward to the August 16, 2021 regular City Council meeting for final approval.

Fund Name: N/A

Account Number: N/A

Available Budget \$: N/A

ATTACHMENTS:		Roll Call	Aye	Nay
<input type="checkbox"/> Memo	<input type="checkbox"/> Council Minutes	Mayor		
<input checked="" type="checkbox"/> Staff Report	<input type="checkbox"/> Proposed Ordinance	M___ S___ Jeffrey	___	___
<input type="checkbox"/> Correspondence	<input type="checkbox"/> Proposed Resolution			
<input type="checkbox"/> Bid Tabulation	<input type="checkbox"/> Attorney's Report	Council Member		
<input type="checkbox"/> P/C Recommendation	<input type="checkbox"/> Petition	M___ S___ Brubaker	___	___
<input type="checkbox"/> P/C Minutes	<input type="checkbox"/> Contract	M___ S___ Kimmons	___	___
<input type="checkbox"/> Application	<input type="checkbox"/> Budget Amendment	M___ S___ Davis	___	___
<input type="checkbox"/> Citizen	<input type="checkbox"/> Legal Notice	M___ S___ Kyser	___	___
<input type="checkbox"/> Consultant Report	<input type="checkbox"/> Other_	Passed	Failed	

Council Info

We recently received approval for a new Cost Share with the Modot for widening, center turn lane, drainage improvements and new sidewalks on S. Morley between Rollins and Carpenter in the amount of \$1,056,161.00. Cost shares are competitive and awarded at a 50/50 match. We have been working on this for some time, we had S. Morley widening as one of our top three items for Randolph County through the TAC committee, we completed a TEAP study on this corridor in 2018, and we submitted this Cost Share application for this earlier this year.

We initially completed a TEAP study in 2018, and later had B&W complete a full corridor study of S. Morley from Rollins to Rte. M. I have asked Carla to send it to everyone via e-mail as its 54 pages. The total project to Rte. M is expensive and would have to be completed in phases with outside funding covers much or most of the cost. The pending cost share would allow us to complete this first phase. I have included a diagram of the project area and a PEO of the associated costs that were used for the Cost Share application. The total estimated costs are \$2.1M, so the City will have to come up with matching funds to complete the work. That's a big amount, but I have been trying to save up a little in the Transportation Trust fund to be able to make it happen. The project likely wouldn't start construction until 2024, so we have a couple more years to build our match, and still complete our annual street improvements. Currently the airport project has the fund drained down, but we will be getting federal reimbursement of 100% of these costs and we will be back well into the black once that is completed and all reimbursements received.

In order to lock this cost share project in, we will be receiving a cost share agreement from Modot soon to review. This has to be completed and executed within 6 months from the date of approval to secure the funding for Moberly. As soon as we receive that we will review and be brining it to council for review and approval.

Thanks,
Tom



Missouri Department of Transportation

Northeast District

Paula Gough, District Engineer

1711 Highway 61 S
Hannibal, Missouri 63401
573.248.2490
Fax: 573.248.2467
1.888.ASK MODOT (275.6636)

WS #5.

RECEIVED JUL 19 2021

July 8th, 2021

Tom Sanders
City of Moberly
101 West Reed
Moberly, Mo 65270

Dear Tom:

Congratulations! MoDOT's Cost Share Committee approved your application to widen Business Route 63 and add a center turn lane from Burkhart Street to Carpenter Street at its June 17, 2021 meeting. Cost Share funds not to exceed \$1,056,161 are available in state fiscal year (s) 2022 & 2024.

The funding for this project is contingent on the following items: the city and MoDOT completing an agreement to transfer roadway to keep the size of the state highway system from increasing and approval by the Missouri Highways and Transportation Commission via a STIP amendment.

Brian J. Untiedt, Area Engineer, will be contacting you to proceed with the execution of the Cost Share agreement. In accordance with the Cost Share Guidelines, the Cost Share agreement must be executed by the city within 6 months after the recommendation of the Committee to prevent the Cost Share funds from expiring and being allocated to another project.

If you have any questions, please contact Brian J. Untiedt at (573) 248-6284.

Sincerely,

Paula A. Gough
NE District Engineer

Copies: Partnership Development-fs
Maggie Daro- fs
Brian Untiedt-do



Our mission is to provide a world-class transportation experience that delights our customers and promotes a prosperous Missouri.

www.modot.org

April 16, 2021

Mr. Tom Sanders
Public Works Director
City of Moberly
101 West Reed Street
Moberly, MO 65270



Re: Morley Street Traffic Study

Dear Mr. Sanders,

To assist in planning future roadway improvements, Bartlett & West is pleased to serve the City of Moberly by studying access management and developing geometric recommendations for Morley Street, from Rollins Street to Route M. The City is conducting this study as a follow-up to a 2018 study conducted by Bartlett & West that focused on access management alternatives in the northern portion of the current study. The 2018 study, which was developed in partnership with the Missouri Department of Transportation (MoDOT) and the Federal Highway Administration (FHWA), through the Traffic Engineering Assistance Program (TEAP), recommended consolidation of access points and creation of a center turn lane along Morley Street, which is also known as Business Highway 63 and is maintained by MoDOT. The scope of the current study is to review the existing geometry and develop a proposed cross section and projected cost estimate for the larger segment of Morley Street described above.

Executive Summary

The attached report describes the study area, existing conditions, recommended improvements, and projected cost estimate. The recommendations and cost estimate are separated into multiple phases, for the City to implement improvements over time, as funds become available.

To realize a near-term benefit, it is recommended the City pursue implementation on the northern-most segment, from Burkhart Street to Carpenter Street, which is identified as Segment A in the report. Assistance with project costs could be sought through the Cost Share Program administered by MoDOT.

Sincerely,

A handwritten signature in blue ink that reads "Jason Sommerer".

Jason Sommerer, PE, PTOE (MO PE: 2008002211)
Traffic Engineer (PTOE: 3958)



Sealed 04/16/2021
Bartlett & West, Inc.
Certificate of Authority No.
000167 (Engineering)



Driving Community and Industry Forward, Together.

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City of Moberly – Morley Street Traffic Study (Rollins Street to Route M)

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City of Moberly – Morley Street Traffic Study (Rollins Street to Route M)

Introduction and Study Area

The project area for this traffic study is located in Moberly, Missouri, situated in Randolph County; specifically, in the southern portion of the city, to the southeast of the downtown area, as shown in the figure below.

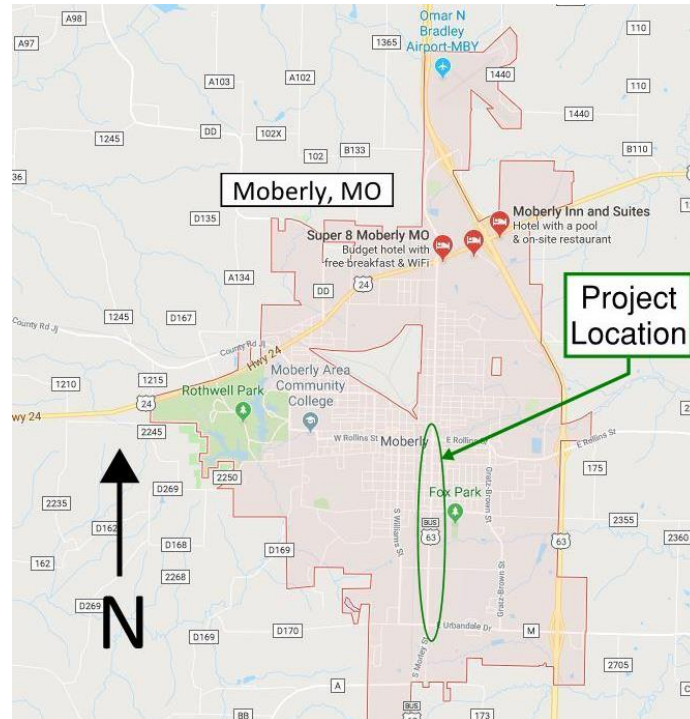


Figure 1: Project Location

The study area extends along Morley Street from south of Rollins Street to south of Route M, as shown in the figure below. The Rollins Street intersection is excluded from the project, while the Route M intersection is included. Morley Street is also known as Business Highway 63 and is maintained by the Missouri Department of Transportation (MoDOT). The figure includes an additional focus area, from Burkhardt Street to Carpenter Street, where more in-depth analysis will occur for some portions of the study. As discussed in the Future Conditions section of the report, the City will likely construct improvements to Morley Street in segments. The additional in-depth analysis of the northern segment may be used by the City as they pursue funding sources to assist with the project, such as MoDOT's Cost Share Program. For the remaining segments in the corridor, future study may be needed to provide this in-depth analysis as those portions arrive closer to project funding.

City of Moberly – Morley Street Traffic Study (Rollins Street to Route M)



Figure 2: Study Area

Existing Conditions

Geometrics

Morley Street is a two-lane, undivided roadway from Rollins Street to Route M for nearly the entire segment, except for the northern-most block between Rollins Street and Burkhardt Street, where the northbound lanes widen to two through lanes and the roadway becomes divided by a raised center median. The full segment length of the project is approximately 1.6 miles, while the northern block length is approximately 350 feet. At the north end of the segment, the study will focus on the Burkhardt Street intersection and the roadway to the south, as any change in cross section for Morley Street south of Rollins Street would transition into the existing geometry just north of Burkhardt Street to match the southern approach of the Rollins Street intersection.

Morley Street is designated by MoDOT as Business Highway 63 and is classified as a Minor Arterial. It serves as the primary north-south arterial throughout Moberly. MoDOT's Functional Classification Map is included in [Appendix B](#).

Beginning at Burkhardt Street and traveling south, the speed limit along Morley Street is 35 mph. The roadway consists of an asphalt driving surface with a curb and gutter cross section, approximately 33 feet wide (curb to curb). The roadway is striped for a 23-foot travelway, which accommodates two 11.5-foot travel lanes. It is currently striped closer to 12-foot wide for the northbound lane and 11-foot wide

City of Moberly – Morley Street Traffic Study (Rollins Street to Route M)

for the southbound lane. The striping provides a six-foot shoulder on the west and a four-foot shoulder on the east side.

The segment from Burkhart Street to Logan Street was the focus of a previous traffic study, which identified the section as having numerous closely spaced driveways with many vehicle-vehicle and vehicle-pedestrian conflict points. This study will incorporate the recommendations of the previous study, which included consolidated access points and implementation of a center turn lane.

The curb-and-gutter section continues south to the intersection of Carpenter Street, where the cross-section changes to a ditched roadway, with a shoulder varying in width from one to four feet, with short segments of wider gravel shoulder. The roadway pavement markings provide approximately 22 to 23 feet of width, with driving lanes in both directions ranging from 11 feet to 11.5 feet. Sidewalks are mostly present on both sides of the road, with some gaps in continuity and several segments of the sidewalk pavement in poor condition.

This cross section of a ditched roadway continues to the south to Wisdom Street, with the shoulder varying from one to four feet, with short segments of wider gravel shoulder. Sidewalks are also mostly present in this segment on both sides of the road, with some gaps in continuity and several poor condition segments.

From Wisdom Street to Halleck Street, the cross section is the mostly the same, except that continuous sidewalk is in place along both sides of the road, in mostly good condition, with some segments possibly narrower than current Americans with Disability Act (ADA) requirements.

From Halleck Street to Horseley Street, the cross section again mostly continues, except that sidewalks are mostly not in place in this segment. From Horseley Street to McKinsey Street, sidewalks are mostly in place, with one short gap on the west side of the road adjacent to Horseley Street.

South of McKinsey Street, the cross section is relatively consistent through Kwix Road, down to Route M, with a shoulder varying in width from two to four feet, alongside a ditched roadway with no sidewalks. The available width for vehicles continues to be approximately 11 to 11.5 feet in each direction.

Traffic Volume and Crash Data

Traffic volume and crash data for Morley Street was obtained from MoDOT's online Data Zone, including Average Annual Daily Traffic (AADT) for 2019 and crash history information from 2015 through 2019. The traffic volume along Morley Street ranges from is approximately 8,900 vehicles per day in the northern portion of the study area to approximately 5,100 vehicles per day in the southern segment. Raw traffic volumes are presented in [Appendix B](#) and summarized in the table below.

Table 1: Traffic Volumes along Morley Street

Morley Street Segment	AADT (veh/day)	Truck %	Peak Hour	
			Peak	Volume
Burkhart Street to Carpenter Street	8,862	3.1%	PM	683
Carpenter Street to McKinsey Street	7,226	1.7%	PM	559
McKinsey Street to Route M	5,073	1.2%	PM	414

As shown in the table, the commercial truck percentage ranges from 3.1% in the northern segment to 1.2% in the southern segment. Also indicated in the table is the peak hour volume, showing 683 vehicles per hour in the PM peak in the northern segment.

City of Moberly – Morley Street Traffic Study (Rollins Street to Route M)

Crash data was collected along the corridor and grouped into the three segments corresponding to the traffic volume data, as shown in the table below.

Table 2: Traffic Crashes along Morley Street

Morley Street Segment	Number of Crashes by Year					Totals	Length (miles)	Averages
	2015	2016	2017	2018	2019			
Burkhart Street to Carpenter Street	16	14	16	10	5	61	0.31	12
Carpenter Street to McKinsey Street	4	4	5	5	3	21	0.26	4
McKinsey Street to Route M	5	11	12	14	12	54	1.01	11
Totals	25	29	33	29	20	136	1.58	27

As shown in the table, the northern segment from Burkhart Street to Carpenter Street represents the highest-frequency segment in the corridor. Comparing the two tables, the two northern segments have similar volumes and lengths, compared to the southern segment from McKinsey Street to Route M. The information was combined and compared to average crash rates provided by MoDOT, as shown in the table below.

Table 3: Morley Street Crash Rate Comparison

Morley Street Segment	AADT	Length (miles)	Crashes (5-years)	5-Year Crash Rates*			
				Actual	MoDOT Averages**		
					County	District	State
Burkhart Street to Carpenter Street	8,862	0.31	61	766	196	193	205
Carpenter Street to McKinsey Street	7,226	0.26	21				
McKinsey Street to Route M	5,073	1.01	54				

*Crash Rate = number of crashes per 100 million vehicle miles

**Average rates for roadways classified as "Two-Lane"

As shown in the table, the crash rate for Morley Street within the study area is approximately 3.5 to 4.0 times the average crash rate for similar roadways in Randolph County, MoDOT's Northeast District, and statewide across Missouri. The crash data is categorized into several characteristics, including crash type and severity, as shown in the table below.

Table 4: Morley Street Crashes - Type and Severity

Morley Street Crash Classifications				
Crash Type		Severity Rating		
Left Turn*	8	Property Damage	95	*includes "Left Turn" and "Left Turn Right Angle" crashes.
Rear End	77	Minor Injury	30	
Right Angle**	35	Serious/Disabling Injury	11	**includes both "Right Angle" and "Right Turn Right Angle" crashes.
All Others	16	Fatal	0	
Total	136	Total	136	

The predominant crash characteristics shown in the table are rear end and property damage, which suggests that the majority of crashes are occurring while a vehicle is waiting to make a left turn (or waiting behind a vehicle making a left turn) and was struck from behind. Additional classifications include lighting condition, road surface condition, and weather condition, as shown in the table below.

Table 5: Morley Street Crashes - Light, Road Surface, and Weather Condition

Morley Street Crash Classifications					
Light Condition		Road Surface Condition		Weather Condition	
Daylight	95	Dry	110	Clear	99
Dark with Streelights On	30	Wet	20	Rain	10
Dark	11	Snow	5	Cloudy	21
		Ice	1	Snow/Freezing	6
Total	136	Total	136	Total	136

The predominant external conditions for the recorded crashes indicate they occur during daylight hours, on dry pavement, and under clear weather, which suggests the contributing cause for crashes in the segment is not related to external factors of lighting, road surface, and weather conditions. Additional crash classification data is presented in [Appendix B](#).

Highway Safety Manual Predicted Values

The *Highway Safety Manual, 1st Edition 2010 with 2014 Supplement*, was utilized to determine predicted crash frequencies along Morley Street at the project location. The roadway characteristics and existing traffic volumes were incorporated into the crash-prediction formulas contained with the Highway Safety Manual (HSM). The HSM considers intersection and segment crashes separately. The HSM formulas provide a crash prediction value based on the roadway AADT and project length, with assumed characteristics for the roadway, such as lane width, shoulder width, driveway density, and several others, including presence of a center turn lane. Crash Modification Factors (CMF) are applied to the base prediction to account for site specific conditions. A CMF of greater than 1.0 implies the predicted crashes will be higher than the base level, for roadway characteristics “below” the base level (such as a narrow lane width or lack of shoulder). A CMF value of 1.0 implies roadway characteristics equal to the base level data. CMFs less than 1.0 imply characteristics “above” or “better” than the base level.

The information utilized and obtained from the HSM is presented below for the existing conditions. The post-construction conditions are presented in the [Crash Analysis \(Future\)](#) section of the report. Two roadway types are available for use in the analysis: Rural Two-Lane, Two-Way Roadway and Urban/Suburban Arterials. While Morley Street is located in the Moberly City Limits, the Urban/Suburban Arterial classification generally considers higher volume roadways with traffic signals. Most of the crash modification factors in the Urban/Suburban Arterial section of the HSM are focused on traffic signal treatments, which aren’t applicable for the section of Morley Street being analyzed in this traffic study.

The Rural Two-Lane, Two-Way Roadway section of the HSM is not an exact match of roadway type for Morley Street, but aligns more closely than the Urban/Suburban Arterial section. The analysis considers segments and intersections separately, with only Segment A (see [Conceptual Layout](#)) analyzed, along with the intersections contained within the segment. See [Appendix B](#) for HSM calculations.

Segment Crashes (Segment A)

- Roadway Type: Rural Two-Lane, Two-Way Roadway (HSM Chapter 10)
- Safety Performance Function: HSM Equation 10-6
- Crash Modification Factors (HSM Table 10-7, segments)
 - Lane Width (CMF_{1r}): 11.5’ average; CMF (for 11’): 1.05

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- Shoulder Width and Type (CMF_{2r}): Existing: 5' average; CMF: 1.08
- Driveway Density (CMF_{6r}): 77 per mile; CMF: 1.95
 - Total of 23 driveways (10 residential and 13 commercial) over a 0.3-mile segment, for a density of 77 per mile.
- Two-Way Left-Turn Lanes (CMF_{9r}): not present; CMF: 1.0
- Roadside Design (CMF_{10r}): RHR: 2; CMF: 0.94
 - Using the FHWA Roadside Hazard Rating (RHR), on a scale of 1 (better) to 7 (worse)
 - RHR 1 = Clear zone greater than or equal to 30 feet; sideslope flatter than 1V:4H, recoverable
 - RHR 2 = Clear zone between 20 and 25 feet; sideslopes about 1V:4H, recoverable
- Predicted Crashes (SPF for Equation 10-6 with CMFs)
 - Existing: 1.5 crashes/year (predicted)
 - Actual: 2.4 crashes/year reported (non-intersection)

Intersection Crashes (within Segment A)

The HSM contains formulas for multiple intersection configurations. Two of these configurations apply to the intersections in this project:

- Safety Performance Functions
 - Three-Leg Stop-Controlled (3ST): Equation 10-8
 - Four-Leg Stop-Controlled (4ST): Equation 10-9
- Crash Modification Factors (HSM Table 10-7, intersections)
 - Intersection Left Turn Lanes (CMF_{2l}): none present; CMF = 1.0

If a public street T-intersection has a private entrance opposite of the minor street approach, it is still considered a three-leg stop-controlled intersection, for the purposes of the HSM analysis. However, if a left turning vehicle into the private entrance would utilize a left turn lane, the CMF for the installation of the left turn lane (discussed in the [Crash Analysis \(Future\)](#) section of the report) accounts for this with a lower value.

Based on the existing intersection geometry and existing traffic volumes (assumed for some side streets), the HSM-predicted crash values were calculated as follows:

- Burkhart Street (4ST): 2.0 crash/year (predicted)
 - Actual: 0.6 crashes/year reported
- Woodland Street (3ST): 1.4 crashes/year (predicted)
 - Actual: 2.2 crash/year reported
- Wightman Street (3ST): 2.9 crash/year (predicted)
 - Actual: 2.8 crashes/year reported
- Logan Street (3ST): 1.9 crashes/year (predicted)
 - Actual: 5.4 crashes/year reported
- Lee Street (4ST): 2.0 crashes/year (predicted)
 - Actual: 0.4 crashes/year reported
- Carpenter Street (4ST): 3.7 crashes per/year (predicted)
 - Actual: 2.2 crashes/year reported

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The intersections of Burkhart Street, Wightman Street, Lee Street, and Carpenter Street are experiencing fewer actual crashes than predicted by the HSM formulas, for intersections with similar traffic control and AADT. The intersections of Woodland and Logan are experiencing higher crash rates than predicted by the HSM formulas. It should be noted that some crashes attributed to a specific intersection (such as Logan Street) may actually be related more closely to an adjacent driveway (such as the Bratcher's and Casey's entrances). However, the overall crashes in the segment will be accounted for by attributing them to a specific intersection.

Pedestrian Activity

City staff have observed a general increase in pedestrian activity throughout the community. For the study area addressed in this report, the northern portion is experiencing the most pedestrian activity. In this area, from Burkhart Street to Logan Street, commercial properties are in close proximity to the residential properties, creating pedestrian activity between the two areas. While the pedestrian traffic is not quantified as easy as the vehicular traffic, and the crash data included only one pedestrian and one pedalcycle classification, the City desires to construct the infrastructure to support bicycle and pedestrian traffic before these types of crashes occur.

Drainage

Improvements to drainage in along Morley Street will be provided in the form of curb and gutter construction along with the roadway improvements. Underground storm sewer pipes will be included in the project to convey water from the roadway to the surrounding stream network.

There is an existing box culvert crossing beneath Morley Street approximately 950 feet south of McKinsey Street that will need to be extended or replaced to accommodate the widened cross section of Morley Street. A hydraulic analysis should be conducted as part of preliminary roadway design. If additional hydraulic capacity is needed, full replacement of the box culvert may be the most appropriate option.

Traffic Capacity

MoDOT's Engineering Policy Guide (EPG) reports the capacity of a three-lane roadway, including a two-way center left turn lane, to be approximately 17,500 vehicles per day. With an existing volume of approximately 8,900 vehicles per day in the northern segment, the existing volume is approximately half the volume that can be accommodated with a three-lane cross section. Assuming a 2% growth rate over a 20- to 30-year design life, future volumes on Morley Street could range from approximately 13,000 vehicles per day (vpd) to 16,000 vpd, which would still be accommodated with a three-lane cross section.

For this conceptual-level study, a roundabout was assumed as the future traffic control method at the Route M intersection. Additional analysis should be conducted to determine the geometric layout of the intersection to accommodate the anticipated turning movement volumes. Other forms of traffic control, such as a traffic signal, could also be investigated.

City of Moberly – Morley Street Traffic Study (Rollins Street to Route M)

Future Conditions

Conceptual Layout

While developing the conceptual layout for the roadway improvements along Morley Street in the study area, the corridor was divided into multiple segments, to provide the City with manageable future projects, from a budget standpoint. The entire 1.6-mile corridor was divided into four segments, as well as a separate analysis area for the Route M intersection. Each of these segments are shown in the adjacent figure and the table below. The concept layout is shown in more detail in [Appendix A](#).

As discussed previously, traffic volumes decrease from the northern segments (A and B) to the southern segments (C and D). Accordingly, a three-lane section was selected for the northern segments, while a two-lane section was selected for the southern segments, transitioning at McKinsey Street. As funding becomes available, traffic conditions should be re-evaluated to determine if the three-lane segment should be extended south of McKinsey Street.

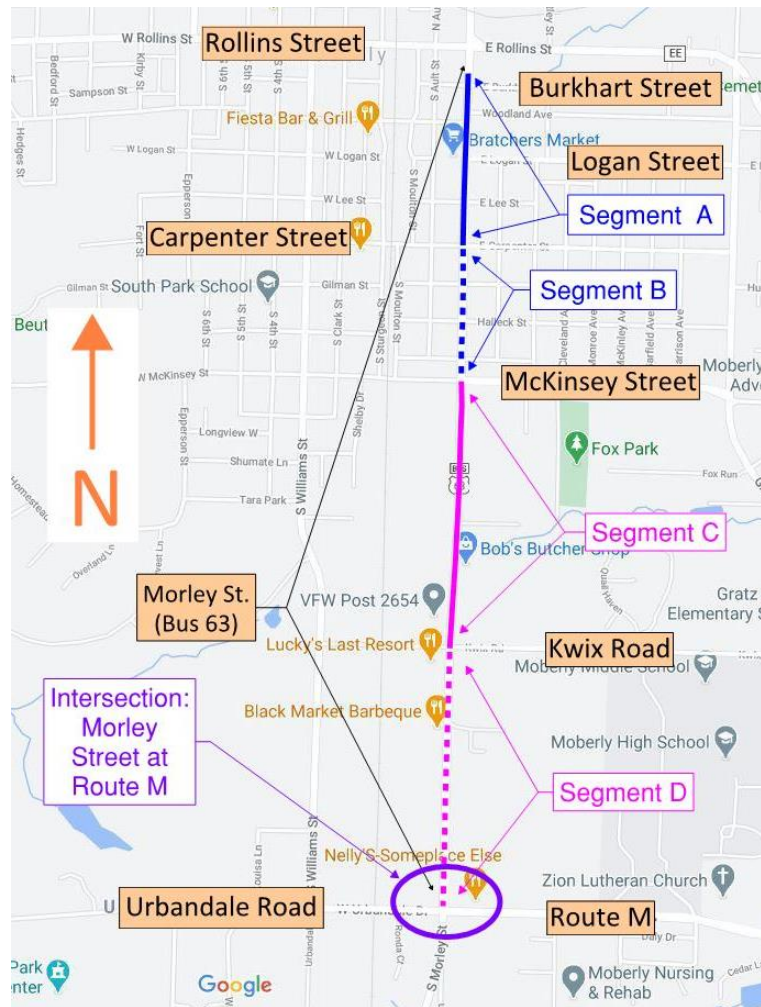


Figure 3: Study Segments

Table 6: Morley Street Segments

Segment	Route	From	To	Length			
				feet	miles		
North							1.6
A	Morley	Burkhart	Carpenter	1,630	0.31	0.57	
B	Street	Carpenter	McKinsey	1,360	0.26		
South							
C	Morley	McKinsey	Kwix	2,670	0.51	1.01	
D	Street	Kwix	Route M	2,674	0.51		
Route M							
E	Morley Street	Route M (Urbandale Street) Intersection					
		Totals:		8,334	1.6		

Access Management

As part of the project, the City will improve access management along the corridor. Potential improvements for Segment A will be described in this report, with the remaining segments to be evaluated as part of future studies. The corridor contains a mix of public intersections, commercial entrances, and residential driveways. The existing spacing for the commercial entrances and residential driveways in Segment A range from 30 feet to 210 feet. MoDOT's Engineering Policy Guide (EPG) defines the desired guidelines for a minor roadway to range from 220 feet to 330 feet. For a major roadway (non-freeway), the range is 440 feet to 660 feet. As mentioned previously, Morley Street is classified as a Minor Arterial and serves as the primary north-south arterial throughout Moberly. Currently, the largest existing driveway spacing is below the minor road threshold for the desired spacing. The goal of the City's project will be to increase spacing as much as possible through driveway consolidations.

As part of the study, four commercial entrances were identified as potential candidates for consolidation with another entrance on the same property. An additional entrance was identified for potentially shifting of the entrance to align with an access point on the opposite side of the road. Each of these are shown in the following sub-sections. The resulting access spacing is shown in the table below, along with the information presented in the previous paragraph.

Table 7: Driveway Spacing Data

Driveway Spacing Minimum Guidelines	Urban Areas	Existing Spacing	Proposed Spacing	
Minor Roadway	220 ft to 330 ft	30' to 210'	Commercial:	100' to 215'
Major Roadway (Non-Freeway)	440 ft to 660 ft		Including Res:	40' to 215'

adapted from MoDOT EPG Table 940.13

Commercial includes alleys
Res = Residential

As shown in the table, the proposed configuration will not increase driveway spacing enough to meet the guidelines outlined in the EPG. However, spacing for the higher volume commercial entrances will be increased, which will provide an improvement along the corridor.

Some of the segments described below include driveway consolidations outside of MoDOT Right-of-Way. If an individual project includes MoDOT funds, such as through the Cost Share Program, any improvements outside of MoDOT Right-of-Way could not be included in the project. For those locations, the City would need to complete the improvements as part of a separate project that does not contain MoDOT funding.

Burkhart Street to Wightman Street

Along Morley Street, in the northwest corner of the Wightman Street intersection, the southern entrance to the gas station could be closed, with access provided via the northern entrance, which is located nearly across from Woodland Avenue, with a slight offset. The northern entrance could also be investigated for potentially shifting slightly to the south to be directly across from Woodland Avenue. The proposed configuration is shown in the figure below.

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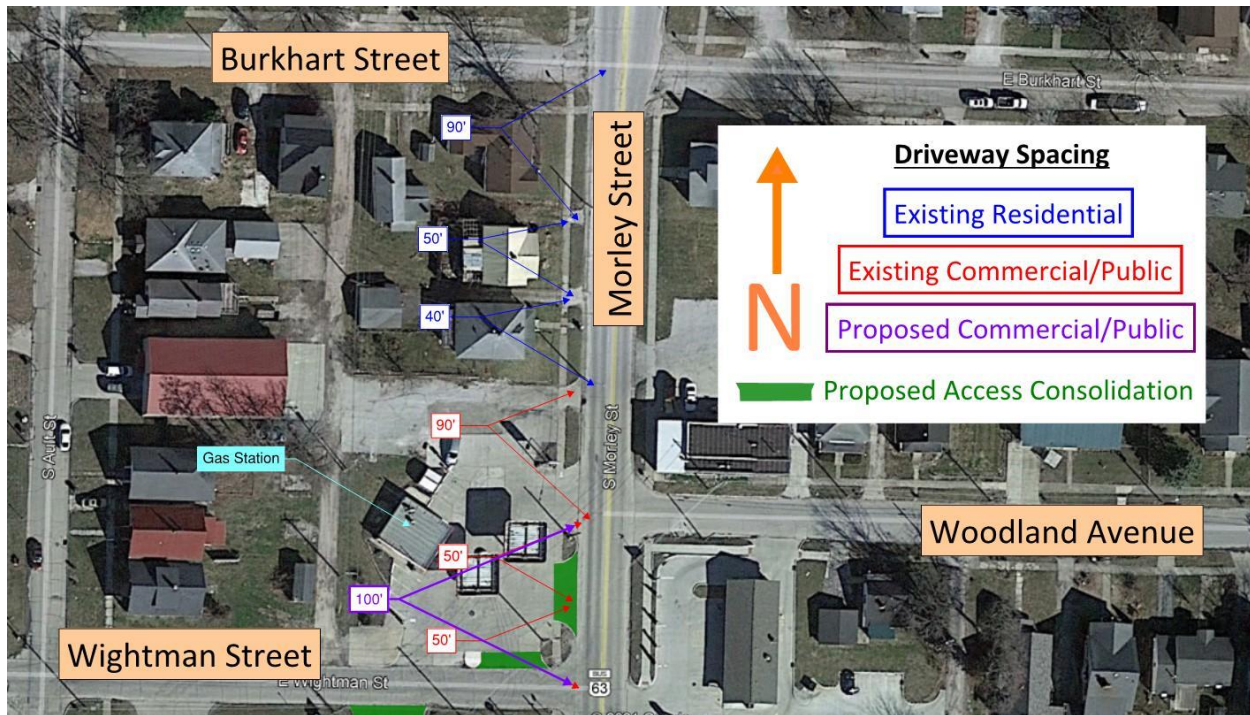


Figure 4: Proposed Access Spacing - Burkhardt to Wightman

Wightman Street to Logan Street

From Wightman Street to Logan Street, the primary entrance to the grocery store could be shifted to the north to better align with the gas station entrance, as shown in the figure below.

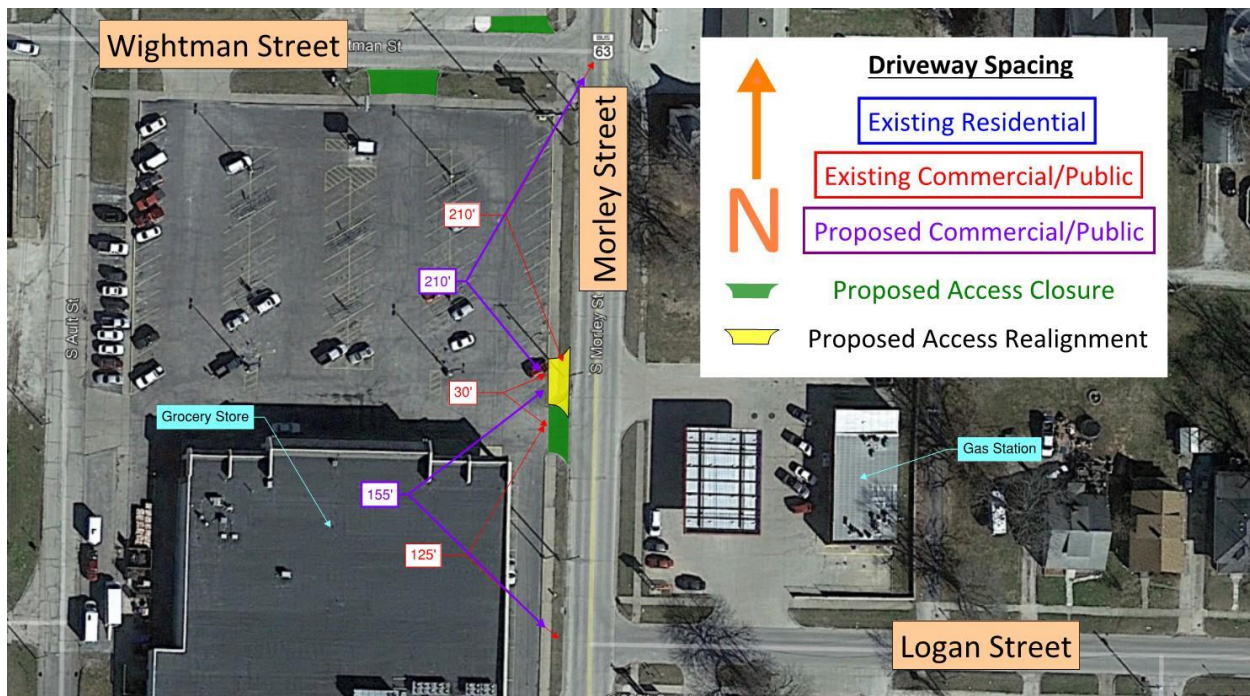


Figure 5: Proposed Access Spacing - Wightman to Logan

City of Moberly – Morley Street Traffic Study (Rollins Street to Route M)

Logan Street to Lee Street

From Logan Street to Lee Street, the southern entrance to the grocery store and the northern entrance to the liquor store could be closed, as both properties have additional access points.

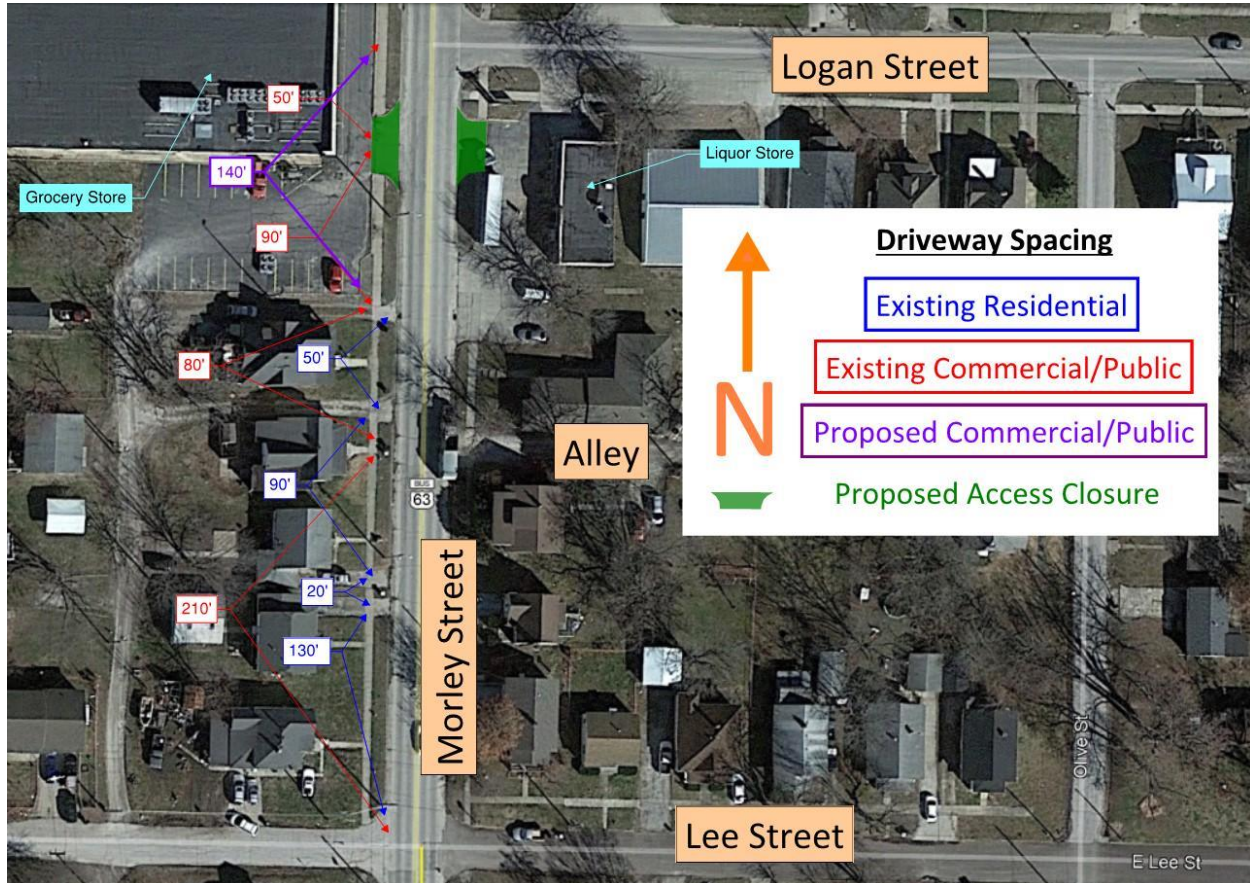


Figure 6: Proposed Access Spacing - Logan to Lee

An area of access-related concern is visible in the figure above at the southern parking lot of the grocery store property. The parking lot currently allows access to the north-south alley that runs parallel to Morley Street between the grocery store property and Lee Street. If the southern entrance to the grocery store property along Morley Street is closed, use of this alley could increase if motorists desire to travel south along Morley Street. The connection from the alley to the parking lot should be reviewed to determine if this movement can safely be accommodated. If so, the City could consider geometric improvements to allow for safe movement of vehicles along the alley, which may alleviate congestion at the primary grocery store entrance on Morley Street.

Lee Street to Carpenter Street

From Lee Street to Carpenter Street, the southern entrance to the Auto Shop property could be closed, while still providing access to Morley Street, via the northern entrance. The proposed configuration is shown in the figure below.

City of Moberly – Morley Street Traffic Study (Rollins Street to Route M)

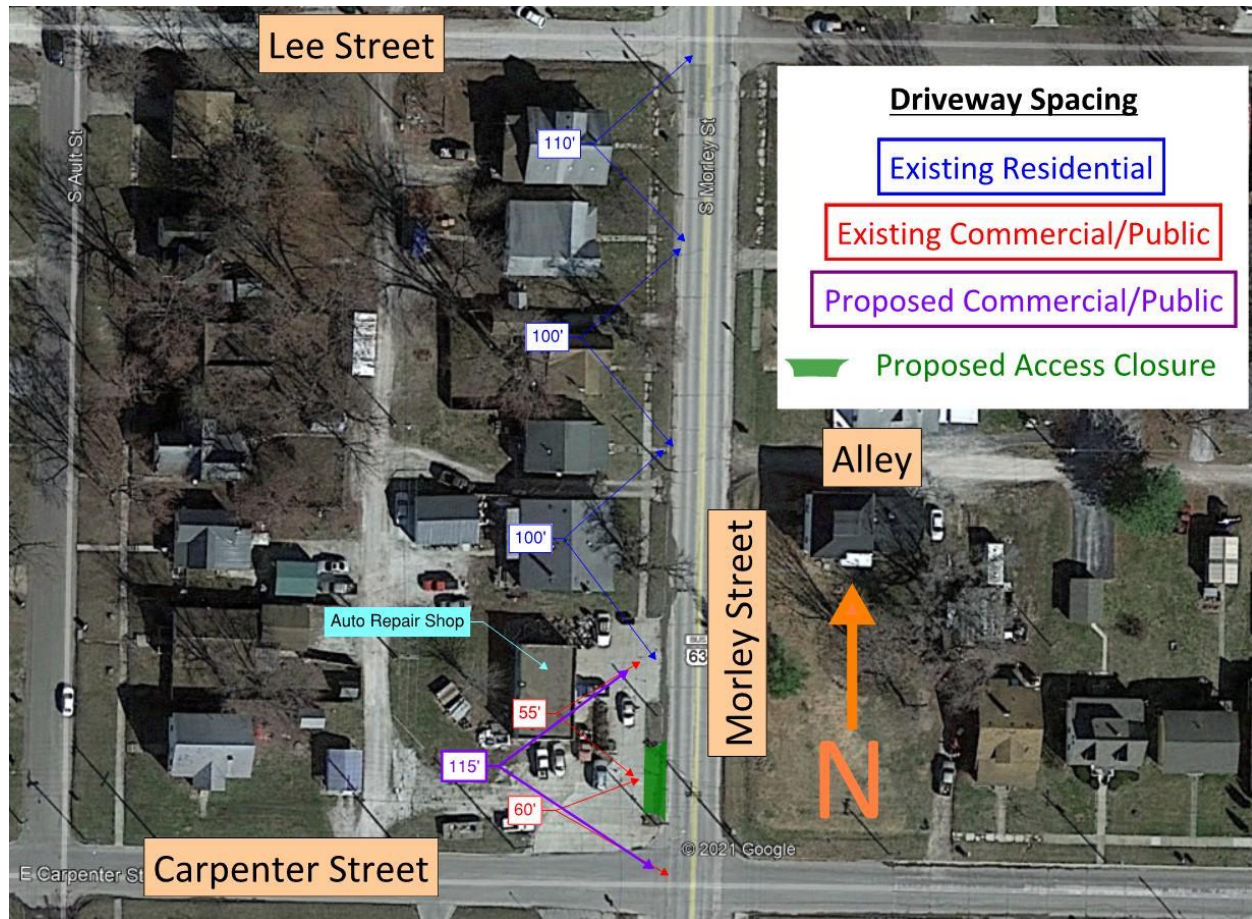


Figure 7: Proposed Access Spacing - Lee to Carpenter

Crash Analysis (Future)

The predicted crash modification factors are shown below, incorporating the proposed roadway improvements, utilizing the existing roadway volumes, which represents conditions immediately after construction. As with the Existing Conditions, the analysis is only focused on Segment A. See [Appendix B](#) for HSM calculations.

Segment Crashes (Segment A)

- Roadway Type: Rural Two-Lane, Two-Way Roadway (HSM Chapter 10)
- Crash Modification Factors (HSM Table 10-7, segments)
 - Lane Width (CMF_{1r})
 - Existing: 11.5' average; CMF (for 11'): 1.05
 - Future: 12' lanes; CMF (for 12'): 1.00
 - Shoulder Width and Type (CMF_{2r})
 - Existing: None; CMF: 1.5
 - Future: 6'; CMF: 1.0
 - Driveway Density (CMF_{6r})
 - Existing: 77 per mile; CMF: 1.95
 - Based on total of 23 driveways (10 residential and 13 commercial) over a 0.3-mile segment, for a density of 77 per mile.

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- Future: 63 per mile; CMF: 1.77
 - Reduction of 4 commercial entrances, to reduce the total driveways to 19 (10 residential and 9 commercial) over the 0.3-mile segment, producing the density of 63 per mile
- Roadside Design (CMF_{10r} -using the FHWA Roadside Hazard Rating (RHR), on a scale of 1 (better) to 7 (worse))
 - Existing: RHR: 2; CMF: 0.94
 - RHR 1 = Clear zone greater than or equal to 30 feet; sideslope flatter than 1V:4H, recoverable
 - Future: RHR: 1; CMF: 0.87
 - RHR 2 = Clear zone between 20 and 25 feet; sideslopes about 1V:4H, recoverable
- Predicted Crashes (SPF for Equation 10-6 with CMFs)
 - Existing: 1.5 crashes/year (predicted)
 - Future: 1.2 crashes/year (predicted)
 - Comparing the predicted existing and future crashes shows the proposed roadway improvements will yield a 16% reduction in non-intersection crashes, based on the HSM data.

Intersection Crashes (within Segment A)

Based on the proposed intersection geometry and existing traffic volumes, the HSM-predicted crash values were calculated and listed in the table below. Using the existing traffic volumes with the proposed intersection geometry represents the predicted intersection crashes.

Table 8: Morley Street HSM Crash Data - Intersections (Burkhart to Carpenter)

Morley Street Highway Safety Manual Crash Data				
Burkart Street to Carpenter Street	HSM Intersection Type*	CMF		Crash Reduction
		Existing	Proposed	
Burkhart Street	4ST	1.0	0.52	48%
Woodland Street	3ST**	1.0	0.31	69%
Wightman Street	3ST**	1.0	0.31	69%
Logan Street	3ST	1.0	0.56	44%
Lee Street	4ST	1.0	0.52	48%
Carpenter Street	4ST	1.0	0.52	48%

*Three-Leg (3ST) & Four-Leg (4ST) Intersection with Stop-Control on the Minor Movement(s)

** Woodland Street and Wightman Street have private entrances on the opposite leg of the T-intersection. Thus, a left turn movement into these entrances will benefit from a turn lane, which is reflected in a lower CMF than at an intersection without an adjoining entrance (such as Logan Street).

The CMF shown in the table vary by type of intersection and number of approaches with an added left turn lane (in the proposed conditions). As mentioned previously, T-intersections with a private entrance on the opposite leg of the minor street movement may have a lower CMF, if a left turning vehicle would benefit from the installation of the left turn lane. This is the case for the Woodland Street and Wightman Street intersections, as indicated by the lower CMF values.

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Crash Analysis Summary

Applying the CMFs discussed above to the existing crash data yields the anticipated crash reductions shown in the table below.

Table 9: Summary of Crashes - Morley Street (Burkhart to Carpenter)

Morley Street Existing and Predicted Crashes				
Burkart Street to Carpenter Street	Crashes per Year			
	Existing	Reduction		Predicted
Non-Intersection Crashes	0.8	16%	0.1	0.7
Intersection Crashes				
Burkhart Street	0.6	48%	0.3	0.3
Woodland Street	2.2	69%	1.5	0.7
Wightman Street	2.8	69%	1.9	0.9
Logan Street	5.4	44%	2.4	3.0
Lee Street	0.4	48%	0.2	0.2
Carpenter Street	2.2	48%	1.1	1.1
Totals	14.4	52%	7.5	6.9

Conceptual Cost Estimate

A conceptual cost estimate was developed for the full project along Morley Street. A separate estimate was also developed for each of the segments described above, as stand-alone projects. One combined project would provide lower unit costs for each aspect of the design and construction, but would likely create an overall cost for the City that would be out of reach for the foreseeable future. Pursuing one or more segments at a time may be more achievable and would allow the City to incrementally provide improvements to the Morley Street corridor. The table below outlines the anticipated costs for the roadway projects, based on 2021 prices, as a timeline for implementation of the individual segments is unknown at this time. An itemized estimate for the full project, along with estimates for the individual segments, are included in [Appendix C](#).

Table 10: Conceptual Cost Estimates

Conceptual Cost Estimates	Single Project	Individual Segmented Projects - Morley Street Improvements				
		A	B	C	D	E
Length (ft)	8,334	1,630	1,360	2,670	2,674	
Construction	\$8,504,000	\$1,416,000	\$1,171,000	\$2,165,000	\$2,225,000	\$1,444,000
Preliminary Engineering	\$1,701,000	\$283,000	\$234,000	\$433,000	\$445,000	\$289,000
Construction Engineering	\$1,276,000	\$212,000	\$176,000	\$325,000	\$334,000	\$217,000
Total Cost	\$11,481,000	\$1,911,000	\$1,581,000	\$2,923,000	\$3,004,000	\$1,950,000

No third-party utilities have been identified within the improvement area that will be subject to relocation; therefore, no costs are included in the estimate for that task. Stormwater improvements contained within, and adjacent to the right-of-way will be improved. If improvements are required downstream, those will be performed by the City separately from the estimate outlined above.

If Right-of-Way acquisition is needed, the City's consultant will prepare the legal description, documents and diagrams, and the City's Public Works Director will meet with property owners to negotiate the acquisition. This team has acquired many easements for similar past projects and has had 100% success

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in easement acquisition without going through condemnation. Thus, Right-of-Way costs are not anticipated for this project, particularly the roadway portions north of the Route M intersection. At the intersection, a concept layout will need to be developed as part of a future study to determine if additional Right-of-Way will be necessary.

Recommendations

Completing the entire Morley Street corridor, including a major improvement to the Route M intersection, would enhance the transportation experience for pedestrians, bicyclists, and motorists. However, the cost of completing all the locations analyzed as part of this traffic study is currently prohibitive for the City of Moberly. To realize a near-term benefit, it is recommended the City pursue implementation on the northern-most segment, from Burkhart Street to Carpenter Street, which is identified as Segment A in the [Conceptual Layout](#) section of the report. Assistance with project costs (only for improvements on MoDOT Right-of-Way) could be sought through the Cost Share Program administered by MoDOT.

Additional segments of the roadway improvements could be implemented as funds become available and as commercial development continues to occur to the south of Segment A. Private developers could be approached regarding donation of right-of-way necessary for the remaining segments, as well as potential financial contributions to the roadway improvements.

Appendices

[Appendix A: Study Area Exhibits](#)

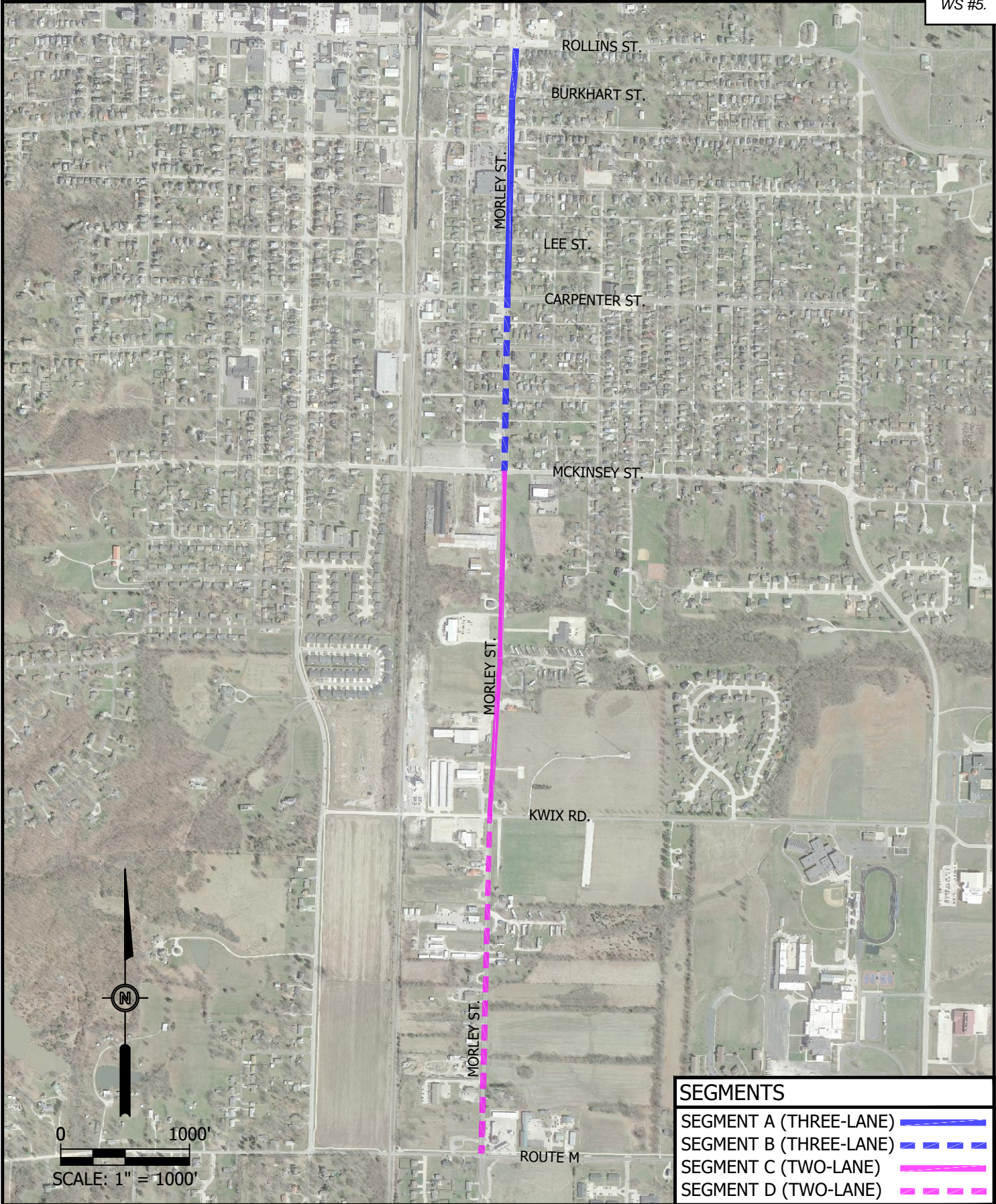
[Appendix B: Traffic Data](#)

[Appendix C: Cost Estimates](#)

[Appendix D: Site Photos](#)

Appendix A: Study Area Exhibits

(2 pages)



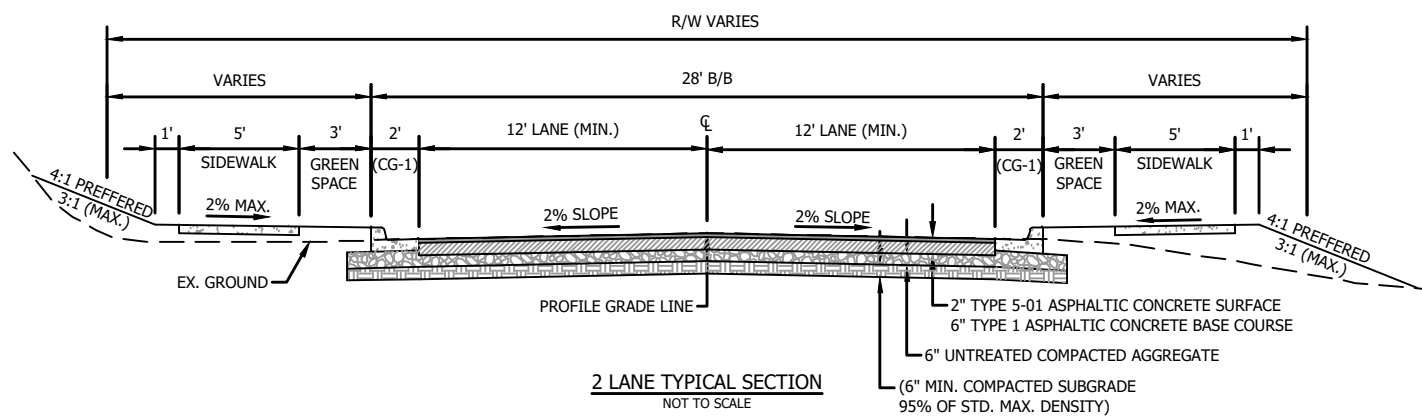
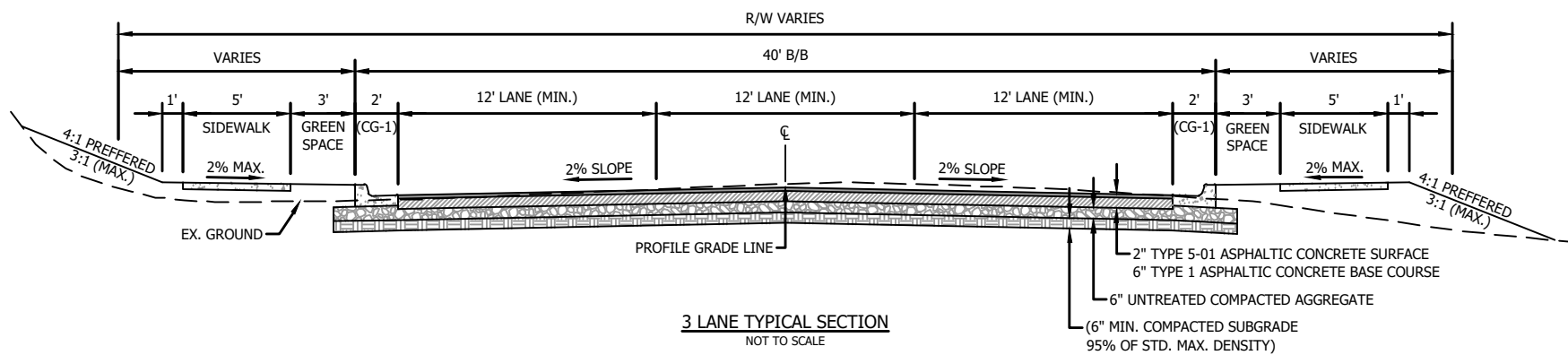
SEGMENTS	
SEGMENT A (THREE-LANE)	
SEGMENT B (THREE-LANE)	
SEGMENT C (TWO-LANE)	
SEGMENT D (TWO-LANE)	

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**2021 TRAFFIC STUDY
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Appendix B: Traffic Data

[B.1: Traffic Volume Data](#)

[B.2: Traffic Crash Data](#)

[B.3: MoDOT Functional Classification Map](#)

B.1: Traffic Volume Data

[B.1.1: Volumes from MoDOT Data Zone](#)

[B.1.2: Growth Rate Calculations](#)

City of Moberly – Morley Street Traffic Study (Rollins Street to Route M)

B.1.1: Volumes from MoDOT Data Zone

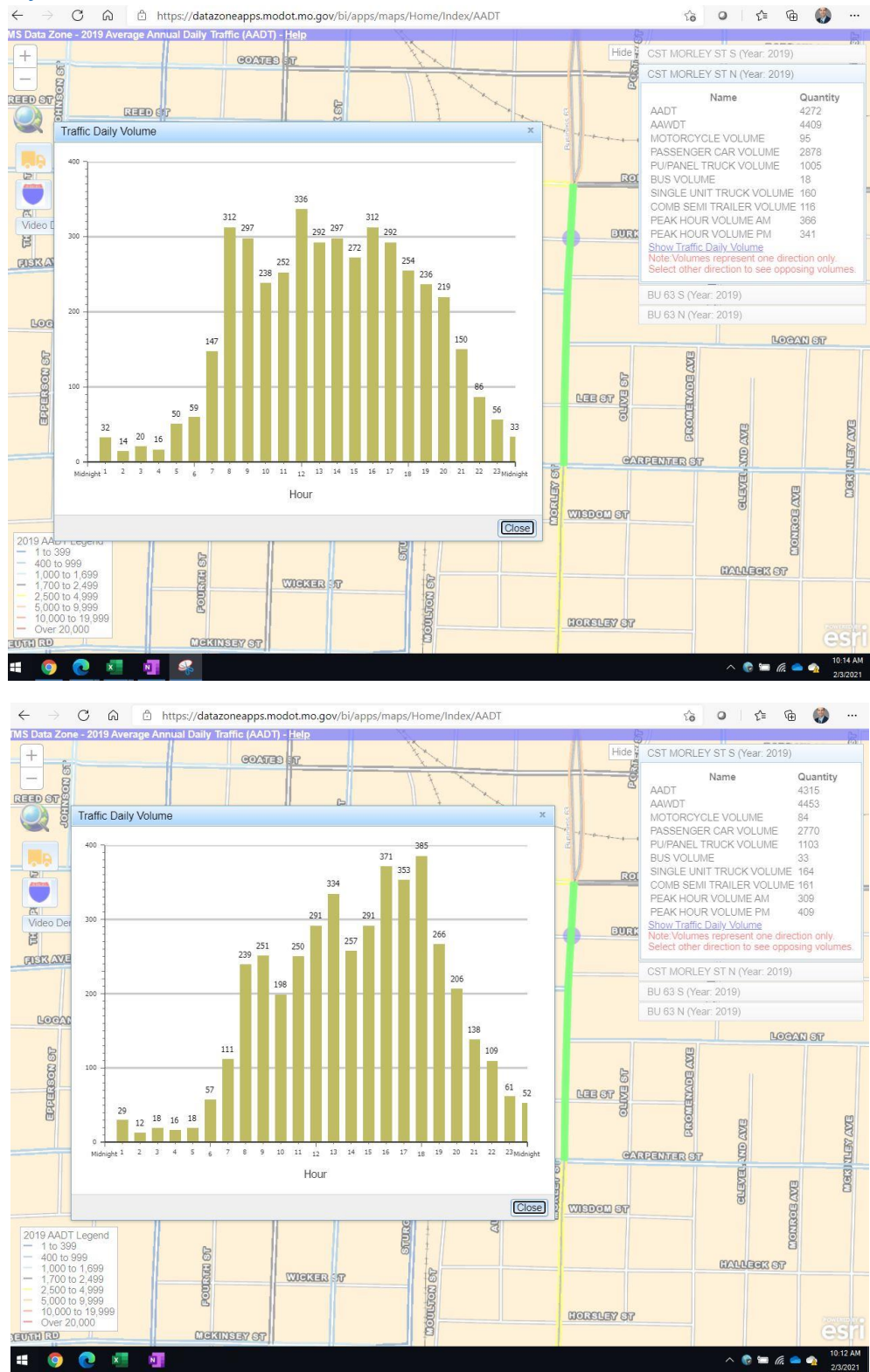


Figure 8: Traffic Volumes from MoDOT Data Zone

City of Moberly – Morley Street Traffic Study (Rollins Street to Route M)

Table 11: Compiled Traffic Volumes from MoDOT Data Zone

	length			0.30871	mi	%pk = percentage of the peak hour		
		Major Approaches				Minor Approaches		
	Hourly Volumes	Morley Street (Rollins to Carpenter)				Wightman Street (w/o Bus 63)		
		N	S	Total	pk%	E (N)	W (S)	Total
MoDOT DataZone Info - 2019 volumes								
	1a	32	29	61		4	4	8
	2a	14	12	26		3	3	6
	3a	20	18	38		4	4	8
	4a	16	16	32		3	3	6
	5a	50	18	68		4	4	8
	6a	59	57	116		13	13	26
	7a	147	111	258		25	25	50
	8a	312	239	551	6.4%	50	50	100
	9a	297	251	548		51	51	102
	10a	238	198	436		32	32	64
	11a	252	250	502		43	43	86
	12p	336	291	627		54	54	108
	1p	292	334	626		59	59	118
	2p	297	257	554		57	57	114
	3p	272	291	563		60	60	120
	4p	312	371	683	8.0%	79	79	158
	5p	292	353	645		88	88	176
	6p	254	385	639		94	94	188
	7p	236	266	502		70	70	140
	8p	219	206	425		53	53	106
	9p	150	138	288		39	39	78
	10p	86	109	195		28	28	56
	11p	56	61	117		12	12	24
	12a	33	52	85		8	8	16
		4272	4313	8,585		933	933	1,866
	AADT	4272	4315	8,587		932	932	1,864
	AAWDT	4409	4453	8,862		988	988	1,976
	W-factor	1.032	1.032			1.060	1.060	
	motorcyc.	95	84			20	16	
	pass car	2878	2770			714	728	
	pu truck	1005	1103			176	174	
	bus	18	33	51	0.6%	0	2	
	single unit	160	164	324	3.7%	11	5	
	combo tr	116	161	277	3.1%	11	7	
	am peak	366	309					
	pm peak	341	409		0.91			

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		%pk = percentage of the peak hour						0.2576 mi				
	length		Minor Approaches					Major Approaches				
	Hourly Volumes		Logan Street (e/o Bus 63)					Morley Street (Carpenter to McKinsey)				
			E (N)	W (S)	Total	pk%	N	S	Total	pk%		
MoDOT DataZone Info - 2019 volumes												
	1a			10	10		22	10	32			
	2a			8	8		7	11	18			
	3a			7	7		6	7	13			
	4a			8	8		13	10	23			
	5a			11	11		27	15	42			
	6a			19	19		51	41	92			
	7a			28	28		111	88	199			
	8a			35	35	4.3%	267	202	469	6.7%		
	9a			39	39		256	178	434			
	10a			44	44		192	157	349			
	11a			49	49		198	173	371			
	12p			51	51		243	239	482			
	1p			53	53		257	257	514			
	2p			55	55		203	214	417			
	3p			58	58		237	215	452			
	4p			63	63	7.7%	304	255	559			
	5p			63	63	7.7%	267	284	551			
	6p			56	56		259	311	570	8.1%		
	7p			44	44		229	226	455			
	8p			35	35		154	190	344			
	9p			28	28		157	142	299			
	10p			23	23		54	94	148			
	11p			18	18		47	52	99			
	12a			13	13		27	39	66			
			0	818	818		3588	3410	6,998			
	AADT			818	818		3590	3412	7,002			
	AAWDT			867	867		3705	3521	7,226			
	W-factor			1.060			1.032	1.032				
	motorcyc.			3			77	59				
	pass car			519			2046	1858				
	pu truck			255			1219	1201				
	bus			1			28	21				
	single unit			32			158	213				
	combo tr			7			62	61	123	1.7%		
	am peak						317	255				
	pm peak						332	349				

City of Moberly – Morley Street Traffic Study (Rollins Street to Route M)

		%pk = percentage of the peak hour					%pk = percentage of the peak hour				
	length	Minor Approaches					Minor Approaches				
	Hourly Volumes	Carpenter Street (w/o Bus 63)					Carpenter Street (e/o Bus 63)				
		E (N)	W (S)	Total	pk%		E (N)	W (S)	Total	pk%	
MoDOT DataZone Info - 2019 volumes											
	1a	1	7	8			3	3	6		
	2a	2	1	3			3	3	6		
	3a	3	1	4			0	1	1		
	4a	2	3	5			5	1	6		
	5a	5	3	8			3	3	6		
	6a	11	10	21			3	8	11		
	7a	17	15	32			18	13	31	3.6%	
	8a	41	32	73	5.5%		23	35	58		
	9a	43	52	95			18	21	39		
	10a	19	32	51			17	22	39		
	11a	27	25	52			9	18	27		
	12p	35	49	84			23	23	46		
	1p	43	45	88			29	21	50		
	2p	43	25	68			27	28	55		
	3p	42	36	78			19	34	53		
	4p	49	58	107			37	45	82	9.5%	
	5p	69	61	130			43	32	75		
	6p	53	83	136	10.2%		41	35	76		
	7p	34	53	87			24	31	55		
	8p	33	40	73			14	35	49		
	9p	18	28	46			17	20	37		
	10p	22	18	40			14	16	30		
	11p	11	17	28			10	9	19		
	12a	5	8	13			5	4	9		
		628	702	1,330			405	461	866		
	AADT	628	700	1,328			408	460	868		
	AAWDT	666	742	1,408			432	488			
	W-factor	1.061	1.060				1.059	1.061			
	motorcyc.	2	2				14	7			
	pass car	398	443				302	310			
	pu truck	197	219				84	117			
	bus	1	1				3	5			
	single unit	25	28				5	18			
	combo tr	5	6				1	4			
	am peak	54	59				32	39			
	pm peak	79	100				54	53			

City of Moberly – Morley Street Traffic Study (Rollins Street to Route M)

	length	1.012 mi				%pk = percentage of the peak hour			
		Major Approaches				Minor Approaches			
	Hourly Volumes	Morley Street (McKinsey to Route M)				McKinsey Street (w/o Bus 63)			
		N	S	Total	pk%	E (N)	W (S)	Total	pk%
MoDOT DataZone Info - 2019 volumes									
	1a	23	13	36		3	4	7	
	2a	6	2	8		3	3	6	
	3a	6	5	11		3	1	4	
	4a	15	9	24		6	0	6	
	5a	12	15	27		5	1	6	
	6a	41	39	80		22	10	32	
	7a	92	78	170	3.5%	58	24	82	3.8%
	8a	195	175	370		142	59	201	
	9a	134	126	260		100	79	179	
	10a	125	89	214		50	43	93	
	11a	158	127	285		43	54	97	
	12p	183	173	356		51	48	99	
	1p	191	209	400		54	57	111	
	2p	170	164	334		71	72	143	
	3p	152	166	318		53	73	126	
	4p	191	206	397		81	96	177	
	5p	202	212	414	8.4%	99	91	190	8.9%
	6p	215	196	411		78	99	177	
	7p	137	125	262		73	77	150	
	8p	93	106	199		51	58	109	
	9p	84	65	149		25	45	70	
	10p	33	49	82		20	17	37	
	11p	28	30	58		9	16	25	
	12a	16	34	50		3	3	6	
		2502	2413	4,915		1103	1030	2,133	
	AADT	2504	2412	4,916		1102	1029	2,131	
	AAWDT	2584	2489	5073		1137	1062		
	W-factor	1.032	1.032			1.032	1.032		
	motorcyc.	28	9			11	7		
	pass car	1725	1658			824	765		
	pu truck	635	639			237	221		
	bus	4	9			6	8		
	single unit	82	67			14	22		
	combo tr	30	29	59	1.2%	10	6		
	am peak	205	185			154	91		
	pm peak	235	244			110	122		

City of Moberly – Morley Street Traffic Study (Rollins Street to Route M)

B.1.2: Growth Rate Calculations

Table 12: Growth Rate Calculations

	starting volume:		8,900		veh/day		8,900
year/ growth	1.00%		volume		2.00%		volume
0	1.0000	0.00%	8,900		1.0000	0.00%	8,900
	1.0100	1.00%	8,989		1.0200	2.00%	9,078
	1.0201	2.01%	9,079		1.0404	4.04%	9,260
	1.0303	3.03%	9,170		1.0612	6.12%	9,445
	1.0406	4.06%	9,261		1.0824	8.24%	9,634
5	1.0510	5.10%	9,354		1.1041	10.41%	9,826
	1.0615	6.15%	9,448		1.1262	12.62%	10,023
	1.0721	7.21%	9,542		1.1487	14.87%	10,223
	1.0829	8.29%	9,637		1.1717	17.17%	10,428
	1.0937	9.37%	9,734		1.1951	19.51%	10,636
10	1.1046	10.46%	9,831		1.2190	21.90%	10,849
	1.1157	11.57%	9,929		1.2434	24.34%	11,066
	1.1268	12.68%	10,029		1.2682	26.82%	11,287
	1.1381	13.81%	10,129		1.2936	29.36%	11,513
	1.1495	14.95%	10,230		1.3195	31.95%	11,743
15	1.1610	16.10%	10,333		1.3459	34.59%	11,978
	1.1726	17.26%	10,436		1.3728	37.28%	12,218
	1.1843	18.43%	10,540		1.4002	40.02%	12,462
	1.1961	19.61%	10,646		1.4282	42.82%	12,711
	1.2081	20.81%	10,752		1.4568	45.68%	12,966
20	1.2202	22.02%	10,860		1.4859	48.59%	13,225
	1.2324	23.24%	10,968		1.5157	51.57%	13,489
	1.2447	24.47%	11,078		1.5460	54.60%	13,759
	1.2572	25.72%	11,189		1.5769	57.69%	14,034
	1.2697	26.97%	11,301		1.6084	60.84%	14,315
25	1.2824	28.24%	11,414		1.6406	64.06%	14,601
	1.2953	29.53%	11,528		1.6734	67.34%	14,893
	1.3082	30.82%	11,643		1.7069	70.69%	15,191
	1.3213	32.13%	11,759		1.7410	74.10%	15,495
	1.3345	33.45%	11,877		1.7758	77.58%	15,805
30	1.3478	34.78%	11,996		1.8114	81.14%	16,121

B.2: Traffic Crash Data

[B.2.1: Crash Data – All Details](#)

[B.2.2: Crash Data – Summarized by Categories](#)

[B.2.3: Statewide Crash Data Summary](#)

[B.2.4: Highway Safety Manual Calculations](#)

City of Moberly – Morley Street Traffic Study (Rollins Street to Route M)

B.2.1: Crash Data – All Details

Table 13: Crash Data - All Details

2015 Crashes

Crash Class, Severity Rating, Intersection Details, Light Condition

County	Tway	Log	Crash Class	Date	Year	Severity Rating	Image Num	a) n/o Burkhardt to n/o Carpenter			
								b) n/o Carpenter to n/o McKinsey			
								c) n/o McKinsey to Route M			
								Intersec. Num	Intersec. Name	Segment	Light Cond
RANDOLPH	BU 63 S	2.725	REAR END	6/26/2015 0:00	2015	PROPERTY DAMAGE ONLY	0150041824	106280	x	a	DAYLIGHT
RANDOLPH	BU 63 S	2.779	REAR END	6/17/2015 0:00	2015	PROPERTY DAMAGE ONLY	0150042774	106379		a	DAYLIGHT
RANDOLPH	BU 63 S	2.8	REAR END	5/28/2015 0:00	2015	PROPERTY DAMAGE ONLY	0150038261	106461		a	DAYLIGHT
RANDOLPH	BU 63 S	2.8	REAR END	10/20/2015 0:00	2015	PROPERTY DAMAGE ONLY	0150071493	106461		a	DAYLIGHT
RANDOLPH	BU 63 S	2.808	REAR END	11/13/2015 0:00	2015	PROPERTY DAMAGE ONLY	0150079216	106461		a	DAYLIGHT
RANDOLPH	BU 63 S	2.823	REAR END	1/17/2015 0:00	2015	PROPERTY DAMAGE ONLY	0150012630	106461		a	DARK W/ STREET LIGHTS ON
RANDOLPH	BU 63 S	2.864	REAR END	3/19/2015 0:00	2015	PROPERTY DAMAGE ONLY	0150023409	106623		a	DAYLIGHT
RANDOLPH	BU 63 S	2.867	REAR END	3/2/2015 0:00	2015	MINOR INJURY	0150024003	106623		a	DAYLIGHT
RANDOLPH	BU 63 S	2.869	REAR END	2/9/2015 0:00	2015	PROPERTY DAMAGE ONLY	0150017790	106623		a	DAYLIGHT
RANDOLPH	BU 63 S	2.87	REAR END	1/26/2015 0:00	2015	PROPERTY DAMAGE ONLY	0150011584	106623		a	DAYLIGHT
RANDOLPH	BU 63 S	2.877	REAR END	4/29/2015 0:00	2015	PROPERTY DAMAGE ONLY	0150030490	106623		a	DAYLIGHT
RANDOLPH	BU 63 S	2.877	REAR END	8/18/2015 0:00	2015	MINOR INJURY	0150063142	106623		a	DAYLIGHT
RANDOLPH	BU 63 S	2.878	REAR END	1/23/2015 0:00	2015	PROPERTY DAMAGE ONLY	0150012628	106623		a	DAYLIGHT
RANDOLPH	BU 63 S	2.881	REAR END	4/14/2015 0:00	2015	PROPERTY DAMAGE ONLY	0150030493	106623		a	DAYLIGHT
RANDOLPH	BU 63 S	2.945	REAR END	11/3/2015 0:00	2015	PROPERTY DAMAGE ONLY	0150079226	106789		a	DAYLIGHT
RANDOLPH	BU 63 S	2.96	REAR END	2/18/2015 0:00	2015	PROPERTY DAMAGE ONLY	0150017795	106789		a	DAYLIGHT
RANDOLPH	BU 63 S	3.035	RIGHT ANGLE	3/18/2015 0:00	2015	PROPERTY DAMAGE ONLY	0150023412	106913	Carpenter	b	DAYLIGHT
RANDOLPH	BU 63 S	3.063	REAR END	4/18/2015 0:00	2015	MINOR INJURY	0150030497	0		b	DAYLIGHT
RANDOLPH	BU 63 S	3.112	REAR END	9/10/2015 0:00	2015	PROPERTY DAMAGE ONLY	0150063148	107047		b	DAYLIGHT
RANDOLPH	BU 63 S	3.124	REAR END	2/3/2015 0:00	2015	MINOR INJURY	0150019615	107047		b	DAYLIGHT
RANDOLPH	BU 63 S	3.29	RIGHT ANGLE	5/18/2015 0:00	2015	PROPERTY DAMAGE ONLY	0150035445	107374	McKinsey	c	DAYLIGHT
RANDOLPH	BU 63 S	3.29	LEFT TURN RIGHT ANG	6/22/2015 0:00	2015	MINOR INJURY	0150041826	107374	McKinsey	c	DAYLIGHT
RANDOLPH	BU 63 S	4.298	RIGHT ANGLE	5/1/2015 0:00	2015	MINOR INJURY	0150035126	108894		c	DAYLIGHT
RANDOLPH	BU 63 S	4.298	HEAD ON	11/17/2015 0:00	2015	PROPERTY DAMAGE ONLY	0150080765	108894		c	DAYLIGHT
RANDOLPH	CST MCKIN	0.524	RIGHT ANGLE	1/5/2015 0:00	2015	PROPERTY DAMAGE ONLY	0150013186	107374	McKinsey	c	DAYLIGHT

Road Surface Condition, Weather Condition, Tway ID, Day of Week, Time, Lat/Long

County	Tway	Log	Date	Year	Road Surf Cond	Weather Cond	Tway ID	Day Of Week	Time	Prop Dmg Ind	Transaction Id	Object Id	Landed Latitude	Landed Longitude
RANDOLPH	BU 63 S	2.725	6/26/2015 0:00	2015	WET	CLOUDY	3534	FRI	1307		0	157850407	39.4176	-92.43365
RANDOLPH	BU 63 S	2.779	6/17/2015 0:00	2015	WET	RAIN	3534	WED	1940		0	157857026	39.41683	-92.4337
RANDOLPH	BU 63 S	2.8	5/28/2015 0:00	2015	WET	CLOUDY	3534	THU	1448		0	157774910	39.41653	-92.43371
RANDOLPH	BU 63 S	2.8	10/20/2015 0:00	2015	DRY	CLEAR	3534	TUE	1247		0	157889891	39.41653	-92.43371
RANDOLPH	BU 63 S	2.808	11/13/2015 0:00	2015	DRY	CLEAR	3534	FRI	821		0	157914275	39.41641	-92.43372
RANDOLPH	BU 63 S	2.823	1/17/2015 0:00	2015	DRY	CLEAR	3534	SAT	1914		0	157827527	39.4162	-92.43373
RANDOLPH	BU 63 S	2.864	3/19/2015 0:00	2015	WET	RAIN	3534	THU	1046		0	157788660	39.41561	-92.43375
RANDOLPH	BU 63 S	2.867	3/2/2015 0:00	2015	DRY	CLEAR	3534	MON	1139		0	157799652	39.41556	-92.43375
RANDOLPH	BU 63 S	2.869	2/9/2015 0:00	2015	DRY	CLEAR	3534	MON	921		0	157832313	39.41553	-92.43375
RANDOLPH	BU 63 S	2.87	1/26/2015 0:00	2015	DRY	CLEAR	3534	MON	1622		0	157848484	39.41552	-92.43375
RANDOLPH	BU 63 S	2.877	4/29/2015 0:00	2015	DRY	CLEAR	3534	WED	1536		0	157844771	39.41542	-92.43376
RANDOLPH	BU 63 S	2.877	8/18/2015 0:00	2015	WET	RAIN	3534	TUE	1454		0	157925087	39.41542	-92.43376
RANDOLPH	BU 63 S	2.878	1/23/2015 0:00	2015	DRY	CLEAR	3534	FRI	1448		0	157827523	39.4154	-92.43376
RANDOLPH	BU 63 S	2.881	4/14/2015 0:00	2015	DRY	CLEAR	3534	TUE	1607		0	157818246	39.41536	-92.43376
RANDOLPH	BU 63 S	2.945	11/3/2015 0:00	2015	DRY	CLEAR	3534	TUE	1643		0	157909824	39.41443	-92.43378
RANDOLPH	BU 63 S	2.96	2/18/2015 0:00	2015	DRY	CLEAR	3534	WED	1646		0	157833508	39.41421	-92.43378
RANDOLPH	BU 63 S	3.035	3/18/2015 0:00	2015	WET	RAIN	3534	WED	1618		0	157788664	39.41313	-92.4338
RANDOLPH	BU 63 S	3.063	4/18/2015 0:00	2015	DRY	CLEAR	3534	SAT	1019		0	157818251	39.41272	-92.43382
RANDOLPH	BU 63 S	3.112	9/10/2015 0:00	2015	DRY	CLEAR	3534	THU	1800		0	157899336	39.41201	-92.43385
RANDOLPH	BU 63 S	3.124	2/13/2015 0:00	2015	DRY	CLEAR	3534	TUE	802		0	157853448	39.41184	-92.43385
RANDOLPH	BU 63 S	3.29	5/18/2015 0:00	2015	DRY	CLEAR	3534	MON	729		0	157799463	39.40943	-92.43391
RANDOLPH	BU 63 S	3.29	6/22/2015 0:00	2015	DRY	CLEAR	3534	MON	1303		0	157850412	39.40943	-92.43391
RANDOLPH	BU 63 S	4.298	5/1/2015 0:00	2015	DRY	CLEAR	3534	FRI	932		0	157790135	39.39484	-92.43455
RANDOLPH	BU 63 S	4.298	11/17/2015 0:00	2015	WET	RAIN	3534	TUE	1607		0	157920030	39.39484	-92.43455
RANDOLPH	CST MCKIN	0.524	1/5/2015 0:00	2015	DRY	CLEAR	88699	MON	800		0	157857198	39.40943	-92.43391

April 2021 (sealed 4/16/21)

Appendices: App-14

City of Moberly – Morley Street Traffic Study (Rollins Street to Route M)

2016 Crashes

Crash Class, Severity Rating, Intersection Details, Light Condition

County	Tway	Log	Crash Class	Date	Year	Severity Rating	Image Num	a) n/o Burkhardt to n/o Carpenter			
								b) n/o Carpenter to n/o McKinsey			
								c) n/o McKinsey to Route M			
								Intersec. Num	Intersec. Name	Segment	Light Cond
RANDOLPH	BU 63 S	2.72	REAR END	11/8/2016 0:00	2016	PROPERTY DAMAGE ONLY	2160050133	106280		a	DARK W/ STREET LIGHTS OFF
RANDOLPH	BU 63 S	2.734	LEFT TURN RIGHT ANGLE	5/22/2016 0:00	2016	PROPERTY DAMAGE ONLY	2160047400	106280		a	DAYLIGHT
RANDOLPH	BU 63 S	2.799	REAR END	12/13/2016 0:00	2016	MINOR INJURY	2160053161	106461		a	DAYLIGHT
RANDOLPH	BU 63 S	2.818	REAR END	10/14/2016 0:00	2016	MINOR INJURY	2160050159	106461		a	DAYLIGHT
RANDOLPH	BU 63 S	2.82	REAR END	12/23/2016 0:00	2016	MINOR INJURY	2160056732	106461 x		a	DARK W/ STREET LIGHTS ON
RANDOLPH	BU 63 S	2.824	REAR END	11/22/2016 0:00	2016	MINOR INJURY	2160050109	106461		a	DAYLIGHT
RANDOLPH	BU 63 S	2.837	REAR END	2/6/2016 0:00	2016	PROPERTY DAMAGE ONLY	0160021463	0		a	DAYLIGHT
RANDOLPH	BU 63 S	2.853	REAR END	10/12/2016 0:00	2016	MINOR INJURY	2160050183	106623		a	DAYLIGHT
RANDOLPH	BU 63 S	2.863	REAR END	2/26/2016 0:00	2016	PROPERTY DAMAGE ONLY	0160021349	106623		a	DAYLIGHT
RANDOLPH	BU 63 S	2.868	REAR END	12/5/2016 0:00	2016	PROPERTY DAMAGE ONLY	2160050613	106623		a	DARK W/ STREET LIGHTS ON
RANDOLPH	BU 63 S	2.882	REAR END	4/2/2016 0:00	2016	PROPERTY DAMAGE ONLY	0160032884	106623		a	DAYLIGHT
RANDOLPH	BU 63 S	3.035	RIGHT ANGLE	8/16/2016 0:00	2016	PROPERTY DAMAGE ONLY	2160050122	106913	Carpenter	b	DAYLIGHT
RANDOLPH	BU 63 S	3.045	REAR END	11/29/2016 0:00	2016	MINOR INJURY	2160049831	106913	Carpenter	b	DAYLIGHT
RANDOLPH	BU 63 S	3.18	REAR END	1/11/2016 0:00	2016	MINOR INJURY	0160014035	107205 x		b	DARK W/ STREET LIGHTS ON
RANDOLPH	BU 63 S	3.285	REAR END	6/16/2016 0:00	2016	PROPERTY DAMAGE ONLY	2160050104	107374	McKinsey	c	DAYLIGHT
RANDOLPH	BU 63 S	3.288	REAR END	9/9/2016 0:00	2016	PROPERTY DAMAGE ONLY	2160053527	107374	McKinsey	c	DAYLIGHT
RANDOLPH	BU 63 S	3.29	RIGHT ANGLE	3/24/2016 0:00	2016	PROPERTY DAMAGE ONLY	0160027078	107374	McKinsey	c	DAYLIGHT
RANDOLPH	BU 63 S	3.29	RIGHT ANGLE	6/8/2016 0:00	2016	DISABLING INJURY	2160050114	107374	McKinsey	c	DAYLIGHT
RANDOLPH	BU 63 S	3.29	RIGHT ANGLE	6/16/2016 0:00	2016	DISABLING INJURY	2160053154	107374	McKinsey	c	DARK W/ STREET LIGHTS ON
RANDOLPH	BU 63 S	3.29	RIGHT ANGLE	7/28/2016 0:00	2016	PROPERTY DAMAGE ONLY	2160047157	107374	McKinsey	c	DAYLIGHT
RANDOLPH	BU 63 S	3.29	LEFT TURN RIGHT ANGLE	9/23/2016 0:00	2016	PROPERTY DAMAGE ONLY	2160050994	107374	McKinsey	c	DAYLIGHT
RANDOLPH	BU 63 S	3.797	REAR END	5/19/2016 0:00	2016	MINOR INJURY	0160040221	108111		c	DAYLIGHT
RANDOLPH	BU 63 S	4.298	RIGHT ANGLE	4/15/2016 0:00	2016	PROPERTY DAMAGE ONLY	0160035195	108894		c	DAYLIGHT
RANDOLPH	CST CARPE	0.687	RIGHT TURN RIGHT ANGLE	11/15/2016 0:00	2016	PROPERTY DAMAGE ONLY	2160050178	106913	Carpenter	b	DARK W/ STREET LIGHTS OFF
RANDOLPH	CST LOGAN	0	HEAD ON	5/29/2016 0:00	2016	PROPERTY DAMAGE ONLY	0160040589	106623	Logan	a	DAYLIGHT
RANDOLPH	CST LOGAN	0.001	REAR END	6/15/2016 0:00	2016	MINOR INJURY	2160047402	106623	Logan	a	DAYLIGHT
RANDOLPH	CST WIGHT	0.415	OUT OF CONTROL	1/26/2016 0:00	2016	PROPERTY DAMAGE ONLY	0160013287	106461	Wightman	a	DARK W/ STREET LIGHTS ON
RANDOLPH	RT M E	0	OUT OF CONTROL	4/10/2016 0:00	2016	PROPERTY DAMAGE ONLY	0160032886	108894	Route M	c	DARK W/ STREET LIGHTS ON
RANDOLPH	RT M E	0.003	REAR END	11/5/2016 0:00	2016	PROPERTY DAMAGE ONLY	2160050181	108894	Route M	c	DAYLIGHT

Road Surface Condition, Weather Condition, Tway ID, Day of Week, Time, Lat/Long

County	Tway	Log	Date	Year	Road Surf Cond	Weather Cond	Tway ID	Day Of Week	Time	Prop Dmg Ind	Transaction Id	Object Id	Landed Latitude	Landed Longitude
RANDOLPH	BU 63 S	2.72	11/8/2016 0:00	2016	DRY	CLEAR	3534	TUE	1758		0	158023836	39.41768	-92.43365
RANDOLPH	BU 63 S	2.734	5/22/2016 0:00	2016	DRY	CLEAR	3534	SUN	1157		0	157971205	39.41747	-92.43366
RANDOLPH	BU 63 S	2.799	12/13/2016 0:00	2016	DRY	CLEAR	3534	TUE	1611		0	157943633	39.41654	-92.43371
RANDOLPH	BU 63 S	2.818	10/14/2016 0:00	2016	DRY	CLEAR	3534	FRI	1525		0	157999503	39.41627	-92.43372
RANDOLPH	BU 63 S	2.82	12/23/2016 0:00	2016	WET	CLOUDY	3534	FRI	1622		0	158067166	39.41624	-92.43373
RANDOLPH	BU 63 S	2.824	11/22/2016 0:00	2016	WET	RAIN	3534	TUE	951		0	157997254	39.41618	-92.43373
RANDOLPH	BU 63 S	2.837	2/6/2016 0:00	2016	DRY	CLEAR	3534	SAT	1411		0	157994764	39.41599	-92.43373
RANDOLPH	BU 63 S	2.853	10/12/2016 0:00	2016	WET	RAIN	3534	WED	1224		0	157999531	39.41576	-92.43374
RANDOLPH	BU 63 S	2.863	2/26/2016 0:00	2016	DRY	CLEAR	3534	FRI	1610		0	157992455	39.41562	-92.43375
RANDOLPH	BU 63 S	2.868	12/5/2016 0:00	2016	DRY	CLOUDY	3534	MON	1817		0	158049032	39.41555	-92.43375
RANDOLPH	BU 63 S	2.882	4/2/2016 0:00	2016	DRY	CLEAR	3534	SAT	1235		0	157975433	39.41535	-92.43376
RANDOLPH	BU 63 S	3.035	8/16/2016 0:00	2016	DRY	CLEAR	3534	TUE	712	OTHER	0	158023832	39.41313	-92.43338
RANDOLPH	BU 63 S	3.045	11/29/2016 0:00	2016	DRY	CLEAR	3534	TUE	1451		0	158004774	39.41299	-92.43338
RANDOLPH	BU 63 S	3.18	1/11/2016 0:00	2016	DRY	CLEAR	3534	MON	1722		0	157995901	39.41103	-92.43386
RANDOLPH	BU 63 S	3.285	6/16/2016 0:00	2016	DRY	CLEAR	3534	THU	1233		0	157997258	39.4095	-92.43391
RANDOLPH	BU 63 S	3.288	9/9/2016 0:00	2016	DRY	CLEAR	3534	FRI	1511		0	158017721	39.40946	-92.43391
RANDOLPH	BU 63 S	3.29	3/24/2016 0:00	2016	WET	RAIN	3534	THU	945		0	158028465	39.40943	-92.43391
RANDOLPH	BU 63 S	3.29	6/8/2016 0:00	2016	DRY	CLEAR	3534	WED	1843		0	158003614	39.40943	-92.43391
RANDOLPH	BU 63 S	3.29	6/16/2016 0:00	2016	DRY	CLEAR	3534	THU	2131		0	157960835	39.40943	-92.43391
RANDOLPH	BU 63 S	3.29	7/28/2016 0:00	2016	DRY	CLEAR	3534	THU	945		0	158062620	39.40943	-92.43391
RANDOLPH	BU 63 S	3.29	9/23/2016 0:00	2016	DRY	CLEAR	3534	FRI	1203		0	157986149	39.40943	-92.43391
RANDOLPH	BU 63 S	3.797	5/19/2016 0:00	2016	DRY	CLEAR	3534	THU	1352		0	157998548	39.40209	-92.43431
RANDOLPH	BU 63 S	4.298	4/15/2016 0:00	2016	DRY	CLEAR	3534	FRI	1827		0	157973300	39.39484	-92.43455
RANDOLPH	CST CARPE	0.687	11/15/2016 0:00	2016	DRY	CLEAR	26153	TUE	1823		0	157999512	39.41313	-92.43395
RANDOLPH	CST LOGAN	0	5/29/2016 0:00	2016	DRY	CLEAR	84036	SUN	2020		0	157943106	39.41546	-92.43376
RANDOLPH	CST LOGAN	0.001	6/15/2016 0:00	2016	DRY	CLEAR	84036	WED	750		0	157971207	39.41546	-92.43374
RANDOLPH	CST WIGHT	0.415	1/26/2016 0:00	2016	DRY	CLEAR	129092	TUE	1839	MODOT	0	158023655	39.41647	-92.43373
RANDOLPH	RT M E	0	4/10/2016 0:00	2016	DRY	CLEAR	3575	SUN	300	OTHER	0	157975438	39.39484	-92.43455
RANDOLPH	RT M E	0.003	11/5/2016 0:00	2016	DRY	CLEAR	3575	SAT	1456		0	157999529	39.39484	-92.43449

City of Moberly – Morley Street Traffic Study (Rollins Street to Route M)

2017 Crashes**Crash Class, Severity Rating, Intersection Details, Light Condition**

									a) n/o Burkhardt to n/o Carpenter			
									b) n/o Carpenter to n/o McKinsey			
									c) n/o McKinsey to Route M			
County	Tway	Log	Crash Class	Date	Year	Severity Rating	Image Num	Intersec. Num	Intersec. Name	Segment	Light Cond	
RANDOLPH	BU 63 S	2.761	REAR END	12/1/2017 0:00	2017	DISABLING INJURY	2170069095	106379		a	DAYLIGHT	
RANDOLPH	BU 63 S	2.766	REAR END	4/11/2017 0:00	2017	PROPERTY DAMAGE ONLY	2170018734	106379		a	DAYLIGHT	
RANDOLPH	BU 63 S	2.771	REAR END	11/26/2017 0:00	2017	PROPERTY DAMAGE ONLY	2170069090	106379		a	DARK W/ STREET LIGHTS ON	
RANDOLPH	BU 63 S	2.779	REAR END	9/18/2017 0:00	2017	PROPERTY DAMAGE ONLY	2170055253	106379		a	DAYLIGHT	
RANDOLPH	BU 63 S	2.78	REAR END	3/16/2017 0:00	2017	PROPERTY DAMAGE ONLY	2170012787	106379		a	DAYLIGHT	
RANDOLPH	BU 63 S	2.797	REAR END	4/7/2017 0:00	2017	PROPERTY DAMAGE ONLY	2170017478	106461		a	DAYLIGHT	
RANDOLPH	BU 63 S	2.807	REAR END	8/3/2017 0:00	2017	PROPERTY DAMAGE ONLY	2170044382	106379		a	DAYLIGHT	
RANDOLPH	BU 63 S	2.824	REAR END	7/4/2017 0:00	2017	PROPERTY DAMAGE ONLY	2170055249	106461		a	DAYLIGHT	
RANDOLPH	BU 63 S	2.846	LEFT TURN	2/21/2017 0:00	2017	PROPERTY DAMAGE ONLY	2170008669	0		a	DAYLIGHT	
RANDOLPH	BU 63 S	2.85	LEFT TURN RIGHT ANG	6/14/2017 0:00	2017	PROPERTY DAMAGE ONLY	2170033818	106623		a	DAYLIGHT	
RANDOLPH	BU 63 S	2.85	REAR END	11/9/2017 0:00	2017	DISABLING INJURY	2170066562	106623		a	DARK W/ STREET LIGHTS ON	
RANDOLPH	BU 63 S	2.867	REAR END	10/30/2017 0:00	2017	PROPERTY DAMAGE ONLY	2170063172	106623		a	DARK W/ STREET LIGHTS ON	
RANDOLPH	BU 63 S	2.87	REAR END	9/13/2017 0:00	2017	PROPERTY DAMAGE ONLY	2170055234	106623		a	DAYLIGHT	
RANDOLPH	BU 63 S	2.871	REAR END	6/15/2017 0:00	2017	PROPERTY DAMAGE ONLY	2170034856	106623		a	DAYLIGHT	
RANDOLPH	BU 63 S	2.873	HEAD ON	8/30/2017 0:00	2017	PROPERTY DAMAGE ONLY	2170050762	106623		a	DAYLIGHT	
RANDOLPH	BU 63 S	2.893	REAR END	4/14/2017 0:00	2017	PROPERTY DAMAGE ONLY	2170021349	106623		a	DAYLIGHT	
RANDOLPH	BU 63 S	3.224	OUT OF CONTROL	5/8/2017 0:00	2017	PROPERTY DAMAGE ONLY	2170024304	0		b	DARK W/ STREET LIGHTS ON	
RANDOLPH	BU 63 S	3.232	BACKING	11/28/2017 0:00	2017	PROPERTY DAMAGE ONLY	2170069091	107316		b	DARK W/ STREET LIGHTS ON	
RANDOLPH	BU 63 S	3.29	PEDALCYCLE	7/22/2017 0:00	2017	MINOR INJURY	2170040266	107374	McKinsey	b	DARK W/ STREET LIGHTS ON	
RANDOLPH	BU 63 S	3.29	RIGHT ANGLE	11/27/2017 0:00	2017	DISABLING INJURY	2170069102	107374	McKinsey	b	DAYLIGHT	
RANDOLPH	BU 63 S	3.778	REAR END	6/8/2017 0:00	2017	MINOR INJURY	2170032035	108111		c	DAYLIGHT	
RANDOLPH	BU 63 S	3.794	REAR END	6/8/2017 0:00	2017	MINOR INJURY	2170032034	108111		c	DAYLIGHT	
RANDOLPH	BU 63 S	3.845	REAR END	9/23/2017 0:00	2017	PROPERTY DAMAGE ONLY	2170055495	0		c	DAYLIGHT	
RANDOLPH	BU 63 S	4.283	REAR END	3/4/2017 0:00	2017	PROPERTY DAMAGE ONLY	2170011243	108894		c	DAYLIGHT	
RANDOLPH	BU 63 S	4.298	RIGHT ANGLE	2/7/2017 0:00	2017	PROPERTY DAMAGE ONLY	2170005612	108894	x	c	DAYLIGHT	
RANDOLPH	BU 63 S	4.298	RIGHT ANGLE	2/21/2017 0:00	2017	DISABLING INJURY	2170008666	108894		c	DAYLIGHT	
RANDOLPH	BU 63 S	4.298	RIGHT ANGLE	5/22/2017 0:00	2017	MINOR INJURY	2170029752	108894		c	DAYLIGHT	
RANDOLPH	BU 63 S	4.298	REAR END	8/11/2017 0:00	2017	MINOR INJURY	2170048843	108894		c	DAYLIGHT	
RANDOLPH	BU 63 S	4.298	LEFT TURN	10/31/2017 0:00	2017	PROPERTY DAMAGE ONLY	2170060977	108894		c	DAYLIGHT	
RANDOLPH	BU 63 S	4.306	RIGHT ANGLE	12/18/2017 0:00	2017	MINOR INJURY	2170074228	108894	x	c	DAYLIGHT	
RANDOLPH	CST MCKIN	0.522	REAR END	9/4/2017 0:00	2017	PROPERTY DAMAGE ONLY	2170055237	107374	McKinsey	b	DAYLIGHT	
RANDOLPH	CST URBAN	0.613	HEAD ON	5/9/2017 0:00	2017	PROPERTY DAMAGE ONLY	2170025360	108894	Route M	c	DAYLIGHT	
RANDOLPH	RT M E	0.001	REAR END	6/2/2017 0:00	2017	PROPERTY DAMAGE ONLY	2170032040	108894	Route M	c	DAYLIGHT	

Road Surface Condition, Weather Condition, Tway ID, Day of Week, Time, Lat/Long

City of Moberly – Morley Street Traffic Study (Rollins Street to Route M)

County	Tway	Log	Date	Year	Road Surf Cond	Weather Cond	Tway ID	Day Of Week	Time	Prop Dmg Ind	Transaction Id	Object Id	Landed Latitude	Landed Longitude
RANDOLPH	BU 63 S	2.761	12/1/2017 0:00	2017	DRY	CLEAR	3534	FRI	1503		6276873	169021022	39.41708	-92.43368
RANDOLPH	BU 63 S	2.766	4/11/2017 0:00	2017	DRY	CLEAR	3534	TUE	1336		2756855	164147676	39.41701	-92.43369
RANDOLPH	BU 63 S	2.771	11/26/2017 0:00	2017	DRY	CLEAR	3534	SUN	1917		6519573	169416050	39.41694	-92.43369
RANDOLPH	BU 63 S	2.779	9/18/2017 0:00	2017	DRY	CLEAR	3534	MON	1719		6276541	169020627	39.41682	-92.4337
RANDOLPH	BU 63 S	2.78	3/16/2017 0:00	2017	DRY	CLEAR	3534	THU	1200		2698852	164055434	39.41681	-92.4337
RANDOLPH	BU 63 S	2.797	4/7/2017 0:00	2017	DRY	CLEAR	3534	FRI	943		2752814	164142879	39.41657	-92.43371
RANDOLPH	BU 63 S	2.807	8/3/2017 0:00	2017	DRY	CLEAR	3534	THU	1645		4245024	166253267	39.41643	-92.43372
RANDOLPH	BU 63 S	2.824	7/4/2017 0:00	2017	DRY	CLEAR	3534	TUE	1420		4261039	166271072	39.41618	-92.43373
RANDOLPH	BU 63 S	2.846	2/21/2017 0:00	2017	DRY	CLEAR	3534	TUE	1607		2665305	164018286	39.41586	-92.43374
RANDOLPH	BU 63 S	2.85	6/14/2017 0:00	2017	DRY	CLEAR	3534	WED	1806		4163989	166129988	39.41581	-92.43374
RANDOLPH	BU 63 S	2.85	11/9/2017 0:00	2017	DRY	CLOUDY	3534	THU	1815		5260228	167608570	39.41548	-92.43375
RANDOLPH	BU 63 S	2.867	10/30/2017 0:00	2017	DRY	CLEAR	3534	MON	1916		6464116	169317791	39.41556	-92.43375
RANDOLPH	BU 63 S	2.87	9/13/2017 0:00	2017	DRY	CLEAR	3534	WED	1139		5198190	167514728	39.41552	-92.43375
RANDOLPH	BU 63 S	2.871	6/15/2017 0:00	2017	DRY	CLEAR	3534	THU	1734		4177175	166161524	39.4155	-92.43375
RANDOLPH	BU 63 S	2.873	8/30/2017 0:00	2017	DRY	CLEAR	3534	WED	1144		5105046	167370053	39.41548	-92.43375
RANDOLPH	BU 63 S	2.893	4/14/2017 0:00	2017	WET	RAIN	3534	FRI	1305		2772638	164165138	39.41519	-92.43376
RANDOLPH	BU 63 S	3.224	5/8/2017 0:00	2017	DRY	CLEAR	3534	MON	2058	OTHER	2814762	164211509	39.41039	-92.43388
RANDOLPH	BU 63 S	3.232	11/28/2017 0:00	2017	DRY	CLEAR	3534	TUE	1818		11138300	177438921	39.41028	-92.43388
RANDOLPH	BU 63 S	3.29	7/22/2017 0:00	2017	DRY	CLEAR	3534	SAT	2254		4224051	166224487	39.40943	-92.43391
RANDOLPH	BU 63 S	3.29	11/27/2017 0:00	2017	DRY	CLEAR	3534	MON	1656		8003606	171718775	39.40943	-92.43391
RANDOLPH	BU 63 S	3.778	6/8/2017 0:00	2017	DRY	CLEAR	3534	THU	821		2838077	164238040	39.40236	-92.43428
RANDOLPH	BU 63 S	3.794	6/8/2017 0:00	2017	DRY	CLEAR	3534	THU	827		2838075	164238037	39.40214	-92.4343
RANDOLPH	BU 63 S	3.845	9/23/2017 0:00	2017	DRY	CLEAR	3534	SAT	1206		6276596	169020696	39.4014	-92.43433
RANDOLPH	BU 63 S	4.283	3/4/2017 0:00	2017	DRY	CLEAR	3534	SAT	802		2685851	164041003	39.39505	-92.43454
RANDOLPH	BU 63 S	4.298	2/7/2017 0:00	2017	DRY	CLEAR	3534	TUE	1309		2659346	164011165	39.39484	-92.43455
RANDOLPH	BU 63 S	4.298	2/21/2017 0:00	2017	DRY	CLEAR	3534	TUE	750		2665299	164018278	39.39484	-92.43455
RANDOLPH	BU 63 S	4.298	5/22/2017 0:00	2017	DRY	CLOUDY	3534	MON	1155		2823300	164221640	39.39484	-92.43455
RANDOLPH	BU 63 S	4.298	8/11/2017 0:00	2017	DRY	CLEAR	3534	FRI	752		5100369	167365255	39.39484	-92.43455
RANDOLPH	BU 63 S	4.298	10/31/2017 0:00	2017	DRY	CLEAR	3534	TUE	723		6423200	169266417	39.39484	-92.43455
RANDOLPH	BU 63 S	4.306	12/18/2017 0:00	2017	DRY	CLOUDY	3534	MON	1045	OTHER	6576068	169488142	39.39472	-92.43455
RANDOLPH	CST MCKIN	0.522	9/4/2017 0:00	2017	DRY	CLEAR	88699	MON	1815		5198194	167514734	39.40943	-92.43395
RANDOLPH	CST URBAN	0.613	5/9/2017 0:00	2017	DRY	CLEAR	123966	TUE	1834		2796726	164191081	39.39484	-92.43455
RANDOLPH	RT M E	0.001	6/2/2017 0:00	2017	DRY	CLEAR	3575	FRI	1716		2838085	164238049	39.39484	-92.43453

2018 Crashes

Crash Class, Severity Rating, Intersection Details, Light Condition

										a) n/o Burkhardt to n/o Carpenter b) n/o Carpenter to n/o McKinsey c) n/o McKinsey to Route M			
County	Tway	Log	Crash Class	Date	Year	Severity Rating	Image Num	Intersec. Num	Intersec. Name	Segment	Light Cond		
RANDOLPH	BU 63 S	2.772	REAR END	12/21/2018 0:00	2018	DISABLING INJURY	2180081052	106379	x	a	DAYLIGHT		
RANDOLPH	BU 63 S	2.787	REAR END	11/9/2018 0:00	2018	PROPERTY DAMAGE ONLY	2180073060	106379		a	DAYLIGHT		
RANDOLPH	BU 63 S	2.788	REAR END	6/1/2018 0:00	2018	MINOR INJURY	2180031379	106379		a	DAYLIGHT		
RANDOLPH	BU 63 S	2.804	REAR END	3/16/2018 0:00	2018	PROPERTY DAMAGE ONLY	2180017536	106461		a	DAYLIGHT		
RANDOLPH	BU 63 S	2.822	SIDESWIPE	7/14/2018 0:00	2018	PROPERTY DAMAGE ONLY	2180047784	106461		a	DAYLIGHT		
RANDOLPH	BU 63 S	2.847	REAR END	1/3/2018 0:00	2018	PROPERTY DAMAGE ONLY	2180000951	0	x	a	DARK W/ STREET LIGHTS ON		
RANDOLPH	BU 63 S	2.855	REAR END	3/20/2018 0:00	2018	MINOR INJURY	2180019375	106623		a	DAYLIGHT		
RANDOLPH	BU 63 S	2.858	REAR END	3/15/2018 0:00	2018	PROPERTY DAMAGE ONLY	2180040653	106623		a	DARK W/ STREET LIGHTS ON		
RANDOLPH	BU 63 S	2.866	PEDESTRIAN	7/26/2018 0:00	2018	DISABLING INJURY	2180047783	106623		a	DAYLIGHT		
RANDOLPH	BU 63 S	2.881	REAR END	9/17/2018 0:00	2018	PROPERTY DAMAGE ONLY	2180059422	106623		a	DAYLIGHT		
RANDOLPH	BU 63 S	3.021	REAR END	4/25/2018 0:00	2018	PROPERTY DAMAGE ONLY	2180025351	106913	Carpenter	b	DAYLIGHT		
RANDOLPH	BU 63 S	3.025	OUT OF CONTROL	4/24/2018 0:00	2018	PROPERTY DAMAGE ONLY	2180025356	106913	Carpenter	b	DAYLIGHT		
RANDOLPH	BU 63 S	3.035	RIGHT ANGLE	1/6/2018 0:00	2018	MINOR INJURY	2180001515	106913	Carpenter	b	DAYLIGHT		
RANDOLPH	BU 63 S	3.035	RIGHT ANGLE	4/24/2018 0:00	2018	PROPERTY DAMAGE ONLY	2180025390	106913	Carpenter	b	DAYLIGHT		
RANDOLPH	BU 63 S	3.038	RIGHT TURN RIGHT ANGLE	11/22/2018 0:00	2018	PROPERTY DAMAGE ONLY	2180075664	106913	Carpenter	b	DAYLIGHT		
RANDOLPH	BU 63 S	3.285	REAR END	2/10/2018 0:00	2018	PROPERTY DAMAGE ONLY	2180010324	107374	McKinsey	c	DARK W/ STREET LIGHTS ON		
RANDOLPH	BU 63 S	3.29	RIGHT ANGLE	1/22/2018 0:00	2018	PROPERTY DAMAGE ONLY	2180006459	107374	McKinsey	c	DAYLIGHT		
RANDOLPH	BU 63 S	3.29	RIGHT ANGLE	6/6/2018 0:00	2018	PROPERTY DAMAGE ONLY	2180034872	107374	McKinsey	c	DAYLIGHT		
RANDOLPH	BU 63 S	3.29	LEFT TURN	9/20/2018 0:00	2018	PROPERTY DAMAGE ONLY	2180067392	107374	McKinsey	c	DARK W/ STREET LIGHTS ON		
RANDOLPH	BU 63 S	3.56	REAR END	3/29/2018 0:00	2018	DISABLING INJURY	2180019374	0		c	DAYLIGHT		
RANDOLPH	BU 63 S	3.715	OUT OF CONTROL	12/4/2018 0:00	2018	DISABLING INJURY	2180082910	0		c	DAYLIGHT		
RANDOLPH	BU 63 S	3.8	REAR END	12/4/2018 0:00	2018	MINOR INJURY	2180078085	108111		c	DAYLIGHT		
RANDOLPH	BU 63 S	4.187	REAR END	11/7/2018 0:00	2018	PROPERTY DAMAGE ONLY	2180069532	0		c	DAYLIGHT		
RANDOLPH	BU 63 S	4.298	RIGHT ANGLE	2/4/2018 0:00	2018	PROPERTY DAMAGE ONLY	2180008617	108894		c	DAYLIGHT		
RANDOLPH	BU 63 S	4.298	RIGHT ANGLE	3/29/2018 0:00	2018	PROPERTY DAMAGE ONLY	2180019618	108894		c	DAYLIGHT		
RANDOLPH	BU 63 S	4.298	LEFT TURN	8/13/2018 0:00	2018	PROPERTY DAMAGE ONLY	2180063864	108894		c	DAYLIGHT		
RANDOLPH	BU 63 S	4.298	RIGHT ANGLE	8/21/2018 0:00	2018	MINOR INJURY	2180049799	108894		c	DAYLIGHT		
RANDOLPH	BU 63 S	4.298	RIGHT ANGLE	8/31/2018 0:00	2018	PROPERTY DAMAGE ONLY	2180059412	108894		c	DAYLIGHT		
RANDOLPH	BU 63 S	4.298	RIGHT ANGLE	9/11/2018 0:00	2018	MINOR INJURY	2180063844	108894		c	DAYLIGHT		

April 2021 (sealed 4/16/21)

Appendices: App-17

City of Moberly – Morley Street Traffic Study (Rollins Street to Route M)

Road Surface Condition, Weather Condition, Tway ID, Day, Time, Lat/Long, Tway Ownership

County	Tway	Log	Date	Year	Road Surf Cond	Weather Cond	Tway ID	Day Of Week	Time	Prop Dmg Ind	Transaction Id	Object Id	Landed Latitude	Landed Longitude	TW Ownership
RANDOLPH	BU 63 S	2.772	12/21/2018 0:00	2018	DRY	CLEAR	3534	FRI	1554		16175492	186648615	39.41693	-92.43369	CITY
RANDOLPH	BU 63 S	2.787	11/9/2018 0:00	2018	SNOW	SNOW	3534	FRI	1435		12748443	181720153	39.41671	-92.43371	CITY
RANDOLPH	BU 63 S	2.788	6/1/2018 0:00	2018	DRY	CLEAR	3534	FRI	1257		9379341	173715344	39.4167	-92.43371	CITY
RANDOLPH	BU 63 S	2.804	3/16/2018 0:00	2018	DRY	CLEAR	3534	FRI	1710		7832615	171351026	39.41647	-92.43372	CITY
RANDOLPH	BU 63 S	2.822	7/14/2018 0:00	2018	WET	CLOUDY	3534	SAT	1751		11056775	177281034	39.41621	-92.43373	CITY
RANDOLPH	BU 63 S	2.847	1/3/2018 0:00	2018	WET	CLOUDY	3534	WED	1810		6637558	169590577	39.41585	-92.43374	CITY
RANDOLPH	BU 63 S	2.855	3/20/2018 0:00	2018	DRY	CLEAR	3534	TUE	1606		7856662	171403700	39.41574	-92.43374	CITY
RANDOLPH	BU 63 S	2.858	3/15/2018 0:00	2018	DRY	CLOUDY	3534	THU	2000		9379878	173715967	39.41569	-92.43375	CITY
RANDOLPH	BU 63 S	2.866	7/26/2018 0:00	2018	DRY	CLEAR	3534	THU	1302		9455574	173882550	39.41558	-92.43375	CITY
RANDOLPH	BU 63 S	2.881	9/17/2018 0:00	2018	DRY	CLEAR	3534	MON	746		12456089	181233495	39.41536	-92.43376	CITY
RANDOLPH	BU 63 S	3.021	4/25/2018 0:00	2018	DRY	CLEAR	3534	WED	1642		7977897	171656677	39.41333	-92.43379	CITY
RANDOLPH	BU 63 S	3.025	4/24/2018 0:00	2018	DRY	CLEAR	3534	TUE	1803		7977899	171656760	39.41328	-92.4338	CITY
RANDOLPH	BU 63 S	3.035	1/6/2018 0:00	2018	DRY	CLEAR	3534	SAT	1439		6637950	169591048	39.41313	-92.4338	CITY
RANDOLPH	BU 63 S	3.035	4/24/2018 0:00	2018	DRY	CLEAR	3534	TUE	1719		7977926	171656800	39.41313	-92.4338	CITY
RANDOLPH	BU 63 S	3.038	11/22/2018 0:00	2018	DRY	CLEAR	3534	THU	1506		12804698	181801186	39.41309	-92.4338	STATE
RANDOLPH	BU 63 S	3.285	2/10/2018 0:00	2018	ICE	FREEZING	3534	SAT	2042		7739983	171176976	39.4095	-92.43391	STATE
RANDOLPH	BU 63 S	3.29	1/22/2018 0:00	2018	WET	CLOUDY	3534	MON	1507		7642082	170940105	39.40943	-92.43391	STATE
RANDOLPH	BU 63 S	3.29	6/6/2018 0:00	2018	DRY	CLEAR	3534	WED	1906		9463167	173896346	39.40943	-92.43391	STATE
RANDOLPH	BU 63 S	3.29	9/20/2018 0:00	2018	DRY	CLEAR	3534	THU	1917		12472497	181289699	39.40943	-92.43391	STATE
RANDOLPH	BU 63 S	3.56	3/29/2018 0:00	2018	DRY	CLOUDY	3534	THU	1404		7786450	171260683	39.40552	-92.43402	STATE
RANDOLPH	BU 63 S	3.715	12/4/2018 0:00	2018	SNOW	SNOW	3534	TUE	745		16231154	186769949	39.40328	-92.43421	STATE
RANDOLPH	BU 63 S	3.8	12/4/2018 0:00	2018	SNOW	SNOW	3534	TUE	722		12858108	181865985	39.40205	-92.43431	STATE
RANDOLPH	BU 63 S	4.187	11/7/2018 0:00	2018	DRY	CLOUDY	3534	WED	1634		12738722	181703166	39.39644	-92.4345	STATE
RANDOLPH	BU 63 S	4.298	2/4/2018 0:00	2018	SNOW	SNOW	3534	SUN	1403	OTHER	7662204	170975782	39.39484	-92.43455	STATE
RANDOLPH	BU 63 S	4.298	3/29/2018 0:00	2018	DRY	CLEAR	3534	THU	735		7868022	171425746	39.39484	-92.43455	STATE
RANDOLPH	BU 63 S	4.298	8/13/2018 0:00	2018	DRY	CLEAR	3534	MON	1245		11142812	177446138	39.39484	-92.43455	STATE
RANDOLPH	BU 63 S	4.298	8/21/2018 0:00	2018	DRY	CLEAR	3534	TUE	1021	MODOT	9483538	173940208	39.39484	-92.43455	STATE
RANDOLPH	BU 63 S	4.298	8/31/2018 0:00	2018	DRY	CLOUDY	3534	FRI	1700		11211694	179386198	39.39484	-92.43455	STATE
RANDOLPH	BU 63 S	4.298	9/11/2018 0:00	2018	DRY	CLEAR	3534	TUE	1450		12469705	181258792	39.39484	-92.43455	STATE

2019 Crashes

Crash Class, Severity Rating, Intersection Details, Light Condition

								a) n/o Burkhardt to n/o Carpenter			
								b) n/o Carpenter to n/o McKinsey			
								c) n/o McKinsey to Route M			
County	Tway	Log	Crash Class	Date	Year	Severity Rating	Image Num	Intersec. Num	Intersec. Name	Segment	Light Cond
RANDOLPH	BU 63 S	2.784	RIGHT ANGLE	12/15/2019 0:00	2019	PROPERTY DAMAGE ONLY	21900938142	106379	x	a	DAYLIGHT
RANDOLPH	BU 63 S	2.821	REAR END	2/2/2019 0:00	2019	PROPERTY DAMAGE ONLY	21900198132	106461		a	DAYLIGHT
RANDOLPH	BU 63 S	2.841	RIGHT TURN RIGHT AN	5/1/2019 0:00	2019	PROPERTY DAMAGE ONLY	21900259512	0		a	DAYLIGHT
RANDOLPH	BU 63 S	2.861	REAR END	2/14/2019 0:00	2019	MINOR INJURY	21900108042	106623		a	DAYLIGHT
RANDOLPH	BU 63 S	2.877	REAR END	5/2/2019 0:00	2019	PROPERTY DAMAGE ONLY	21900262562	106623		a	DAYLIGHT
RANDOLPH	BU 63 S	3.035	HEAD ON	1/3/2019 0:00	2019	PROPERTY DAMAGE ONLY	21900028642	106913	Carpenter	b	DAYLIGHT
RANDOLPH	BU 63 S	3.036	REAR END	2/15/2019 0:00	2019	PROPERTY DAMAGE ONLY	21900108972	106913	Carpenter	b	DAYLIGHT
RANDOLPH	BU 63 S	3.14	REAR END	8/17/2019 0:00	2019	PROPERTY DAMAGE ONLY	21900504512	0		b	DAYLIGHT
RANDOLPH	BU 63 S	3.278	REAR END	5/9/2019 0:00	2019	PROPERTY DAMAGE ONLY	21900305772	107374	McKinsey	c	DAYLIGHT
RANDOLPH	BU 63 S	3.288	REAR END	12/10/2019 0:00	2019	PROPERTY DAMAGE ONLY	21900873832	107374	McKinsey	c	DAYLIGHT
RANDOLPH	BU 63 S	3.29	REAR END	5/26/2019 0:00	2019	PROPERTY DAMAGE ONLY	21900312832	107374	McKinsey	c	DAYLIGHT
RANDOLPH	BU 63 S	3.29	RIGHT ANGLE	8/28/2019 0:00	2019	PROPERTY DAMAGE ONLY	21900529472	107374	McKinsey	c	DAYLIGHT
RANDOLPH	BU 63 S	3.29	RIGHT ANGLE	9/3/2019 0:00	2019	PROPERTY DAMAGE ONLY	21900610962	107374	McKinsey	c	DAYLIGHT
RANDOLPH	BU 63 S	3.29	RIGHT ANGLE	11/26/2019 0:00	2019	MINOR INJURY	21900841382	107374	McKinsey	c	DAYLIGHT
RANDOLPH	BU 63 S	3.412	OUT OF CONTROL	11/18/2019 0:00	2019	SUSPECTED SERIOUS INJURY	21900811462	0		c	DAYLIGHT
RANDOLPH	BU 63 S	3.801	OTHER	9/11/2019 0:00	2019	PROPERTY DAMAGE ONLY	21900597832	108111		c	DARK W/ STREET LIGHTS ON
RANDOLPH	BU 63 S	4.298	RIGHT ANGLE	4/23/2019 0:00	2019	MINOR INJURY	21900259462	108894		c	DAYLIGHT
RANDOLPH	BU 63 S	4.298	RIGHT ANGLE	9/27/2019 0:00	2019	PROPERTY DAMAGE ONLY	21900678102	108894		c	DAYLIGHT
RANDOLPH	BU 63 S	4.298	RIGHT ANGLE	10/31/2019 0:00	2019	PROPERTY DAMAGE ONLY	21900770912	108894		c	DAYLIGHT
RANDOLPH	BU 63 S	4.298	RIGHT ANGLE	12/14/2019 0:00	2019	PROPERTY DAMAGE ONLY	21900938122	108894		c	DAYLIGHT

City of Moberly – Morley Street Traffic Study (Rollins Street to Route M)

Road Surface Condition, Weather Condition, Tway ID, Day, Time, Lat/Long, Tway Ownership

County	Tway	Log	Date	Year	Road Surf Cond	Weather Cond	Tway ID	Day Of Week	Time	Prop Dmg Ind	Transaction Id	Object Id	Landed Latitude	Landed Longitude	TW Ownership
RANDOLPH	BU 63 S	2.784	12/15/2019 0:00	2019	SNOW	SNOW	3534	SUN	1403		22049392	193639353	39.41676	-92.4337	CITY
RANDOLPH	BU 63 S	2.821	2/2/2019 0:00	2019	WET	CLOUDY	3534	SAT	1157		20375899	191000792	39.41623	-92.43373	CITY
RANDOLPH	BU 63 S	2.841	5/1/2019 0:00	2019	WET	CLOUDY	3534	WED	1529		20377582	191004564	39.41594	-92.43374	CITY
RANDOLPH	BU 63 S	2.861	2/14/2019 0:00	2019	DRY	CLEAR	3534	THU	1137		14366588	183892143	39.41565	-92.43375	CITY
RANDOLPH	BU 63 S	2.877	5/2/2019 0:00	2019	DRY	CLEAR	3534	THU	1546		14568751	184295124	39.41542	-92.43376	CITY
RANDOLPH	BU 63 S	3.035	1/3/2019 0:00	2019	DRY	CLEAR	3534	THU	803		14297254	183764714	39.41313	-92.4338	CITY
RANDOLPH	BU 63 S	3.036	2/15/2019 0:00	2019	WET	RAIN	3534	FRI	1248		20373578	190995580	39.41312	-92.4338	CITY
RANDOLPH	BU 63 S	3.14	8/17/2019 0:00	2019	DRY	CLEAR	3534	SAT	1500		20384163	191019317	39.41161	-92.43385	STATE
RANDOLPH	BU 63 S	3.278	5/9/2019 0:00	2019	DRY	CLOUDY	3534	THU	1737		14638878	184439836	39.40961	-92.43391	STATE
RANDOLPH	BU 63 S	3.288	12/10/2019 0:00	2019	DRY	CLOUDY	3534	TUE	724		20921947	192174121	39.40946	-92.43391	STATE
RANDOLPH	BU 63 S	3.29	5/26/2019 0:00	2019	WET	CLEAR	3534	SUN	1150		14658810	184483559	39.40943	-92.43391	STATE
RANDOLPH	BU 63 S	3.29	8/28/2019 0:00	2019	DRY	CLEAR	3534	WED	1003		18507635	189197890	39.40943	-92.43391	STATE
RANDOLPH	BU 63 S	3.29	9/3/2019 0:00	2019	DRY	CLEAR	3534	TUE	1055		20386996	191025571	39.40943	-92.43391	STATE
RANDOLPH	BU 63 S	3.29	11/26/2019 0:00	2019	DRY	CLOUDY	3534	TUE	835		20875597	192080870	39.40943	-92.43391	STATE
RANDOLPH	BU 63 S	3.412	11/18/2019 0:00	2019	WET	CLOUDY	3534	MON	1304		18592007	189347972	39.40766	-92.43396	STATE
RANDOLPH	BU 63 S	3.801	9/11/2019 0:00	2019	DRY	CLEAR	3534	WED	2010		18651238	189452292	39.40203	-92.43431	STATE
RANDOLPH	BU 63 S	4.298	4/23/2019 0:00	2019	DRY	CLEAR	3534	TUE	1914		14553655	184267017	39.39484	-92.43455	STATE
RANDOLPH	BU 63 S	4.298	9/27/2019 0:00	2019	DRY	CLEAR	3534	FRI	1751		20301488	190862284	39.39484	-92.43455	STATE
RANDOLPH	BU 63 S	4.298	10/31/2019 0:00	2019	DRY	CLEAR	3534	THU	1255		20657885	191599831	39.39484	-92.43455	STATE
RANDOLPH	BU 63 S	4.298	12/14/2019 0:00	2019	DRY	CLOUDY	3534	SAT	1010		22049388	193639348	39.39484	-92.43455	STATE

2020 Crashes

Crash Class, Severity Rating, Intersection Details, Light Condition

								a) n/o Burkhart to n/o Carpenter			
								b) n/o Carpenter to n/o McKinsey			
								c) n/o McKinsey to Route M			
County	Tway	Log	Crash Class	Date	Year	Severity Rating	Image Num	Intersec. Num	Intersec. Name	Segment	Light Cond
RANDOLPH	BU 63 S	2.721	REAR END	8/20/2020 0:00	2020	MINOR INJURY	2200064160	106280		a	DAYLIGHT
RANDOLPH	BU 63 S	2.774	REAR END	7/15/2020 0:00	2020	PROPERTY DAMAGE ONLY	2200057037	106379		a	DAYLIGHT
RANDOLPH	BU 63 S	2.808	REAR END	10/21/2020 0:00	2020	PROPERTY DAMAGE ONLY	2200082434	106379		a	DAYLIGHT
RANDOLPH	BU 63 S	2.841	OUT OF CONTROL	6/2/2020 0:00	2020	MINOR INJURY	2200047724	0		a	DAYLIGHT
RANDOLPH	BU 63 S	2.846	LEFT TURN	12/24/2020 0:00	2020	PROPERTY DAMAGE ONLY	2200101785	0 x		a	DAYLIGHT
RANDOLPH	BU 63 S	2.847	OTHER	12/23/2020 0:00	2020	PROPERTY DAMAGE ONLY	2200100125	0		a	DARK W/ STREET LIGHTS ON
RANDOLPH	BU 63 S	2.849	LEFT TURN RIGHT ANGLE	11/9/2020 0:00	2020	PROPERTY DAMAGE ONLY	2200090500	106623		a	DAYLIGHT
RANDOLPH	BU 63 S	2.871	REAR END	6/14/2020 0:00	2020	MINOR INJURY	2200047705	106623		a	DAYLIGHT
RANDOLPH	BU 63 S	2.873	OUT OF CONTROL	11/20/2020 0:00	2020	MINOR INJURY	2200099384	106623		a	DARK W/ STREET LIGHTS ON
RANDOLPH	BU 63 S	2.881	BACKING	6/12/2020 0:00	2020	PROPERTY DAMAGE ONLY	2200047703	106623		a	DAYLIGHT
RANDOLPH	BU 63 S	3.035	LEFT TURN	2/21/2020 0:00	2020	PROPERTY DAMAGE ONLY	2200022547	106913	Carpenter	b	DARK W/ STREET LIGHTS ON
RANDOLPH	BU 63 S	3.035	RIGHT ANGLE	4/28/2020 0:00	2020	PROPERTY DAMAGE ONLY	2200030228	106913	Carpenter	b	DAYLIGHT
RANDOLPH	BU 63 S	3.176	REAR END	11/21/2020 0:00	2020	MINOR INJURY	2200088804	107205		b	DAYLIGHT
RANDOLPH	BU 63 S	3.287	REAR END	11/4/2020 0:00	2020	PROPERTY DAMAGE ONLY	2200099389	107374	McKinsey	c	DARK W/ STREET LIGHTS OFF
RANDOLPH	BU 63 S	3.312	RIGHT ANGLE	2/15/2020 0:00	2020	MINOR INJURY	2200030230	107374	McKinsey	c	DAYLIGHT
RANDOLPH	BU 63 S	3.558	REAR END	2/22/2020 0:00	2020	PROPERTY DAMAGE ONLY	2200015505	0		c	DARK W/ STREET LIGHTS ON
RANDOLPH	BU 63 S	3.789	OUT OF CONTROL	11/21/2020 0:00	2020	PROPERTY DAMAGE ONLY	2200088836	108111		c	DARK W/ STREET LIGHTS ON
RANDOLPH	BU 63 S	3.846	REAR END	12/4/2020 0:00	2020	PROPERTY DAMAGE ONLY	2200099374	0		c	DAYLIGHT
RANDOLPH	BU 63 S	4.283	LEFT TURN	7/20/2020 0:00	2020	MINOR INJURY	2200057060	108894		c	DAYLIGHT
RANDOLPH	BU 63 S	4.298	RIGHT ANGLE	10/13/2020 0:00	2020	MINOR INJURY	2200082429	108894		c	DAYLIGHT
RANDOLPH	CST URBAN	0.604	REAR END	2/26/2020 0:00	2020	PROPERTY DAMAGE ONLY	2200015511	108894	Route M	c	DAYLIGHT

Road Surface Condition, Weather Condition, Tway ID, Day, Time, Lat/Long, Tway Ownership

City of Moberly – Morley Street Traffic Study (Rollins Street to Route M)

County	Tway	Log	Date	Year	Road Surf Cond	Weather Cond	Tway ID	Day Of Week	Time	Prop Dmg Ind	Transaction Id	Object Id	Landed Latitude	Landed Longitude	TW Ownership
RANDOLPH	BU 63 S	2.721	8/20/2020 0:00	2020	DRY	CLEAR	3534	THU	1320		25604177	199404844	39.41766	-92.43365	CITY
RANDOLPH	BU 63 S	2.774	7/15/2020 0:00	2020	WET	RAIN	3534	WED	1215		23808845	196580740	39.41691	-92.4337	CITY
RANDOLPH	BU 63 S	2.808	10/21/2020 0:00	2020	WET	CLOUDY	3534	WED	1542		27090089	202207318	39.41641	-92.43372	CITY
RANDOLPH	BU 63 S	2.841	6/2/2020 0:00	2020	DRY	CLEAR	3534	TUE	1505		23727653	196401606	39.41594	-92.43374	CITY
RANDOLPH	BU 63 S	2.846	12/24/2020 0:00	2020	DRY	CLOUDY	3534	THU	1110		27515963	203140637	39.41586	-92.43374	CITY
RANDOLPH	BU 63 S	2.847	12/23/2020 0:00	2020	DRY	CLOUDY	3534	WED	1900		27541560	203188196	39.41585	-92.43374	CITY
RANDOLPH	BU 63 S	2.849	11/9/2020 0:00	2020	DRY	CLEAR	3534	MON	1334		27250174	202590443	39.41582	-92.43374	CITY
RANDOLPH	BU 63 S	2.871	6/14/2020 0:00	2020	DRY	CLEAR	3534	SUN	1523		23727632	196401579	39.4155	-92.43375	CITY
RANDOLPH	BU 63 S	2.873	11/20/2020 0:00	2020	DRY	CLEAR	3534	FRI	435	OTHER	27292596	202693820	39.41548	-92.43375	CITY
RANDOLPH	BU 63 S	2.881	6/12/2020 0:00	2020	DRY	CLEAR	3534	FRI	1150		23728881	196403773	39.41536	-92.43376	CITY
RANDOLPH	BU 63 S	3.035	2/21/2020 0:00	2020	DRY	CLEAR	3534	FRI	2105		22400668	194466545	39.41313	-92.4338	CITY
RANDOLPH	BU 63 S	3.035	4/28/2020 0:00	2020	DRY	CLEAR	3534	TUE	1110		23503561	195888493	39.41313	-92.4338	CITY
RANDOLPH	BU 63 S	3.176	11/21/2020 0:00	2020	DRY	CLEAR	3534	SAT	1255		27173572	202386442	39.41109	-92.43386	STATE
RANDOLPH	BU 63 S	3.287	11/4/2020 0:00	2020	DRY	CLEAR	3534	WED	1740		27292604	202693830	39.40947	-92.43391	STATE
RANDOLPH	BU 63 S	3.312	2/15/2020 0:00	2020	DRY	CLEAR	3534	SAT	1307		22407632	194483026	39.40911	-92.43392	STATE
RANDOLPH	BU 63 S	3.558	2/22/2020 0:00	2020	DRY	CLEAR	3534	SAT	1814		22377810	194415874	39.40555	-92.43402	STATE
RANDOLPH	BU 63 S	3.789	11/21/2020 0:00	2020	WET	RAIN	3534	SAT	1930		27176460	202393165	39.40221	-92.4343	STATE
RANDOLPH	BU 63 S	3.846	12/4/2020 0:00	2020	DRY	CLEAR	3534	FRI	1540		27541276	203187867	39.40138	-92.43433	STATE
RANDOLPH	BU 63 S	4.283	7/20/2020 0:00	2020	DRY	CLEAR	3534	MON	1914		23808851	196580749	39.39505	-92.43454	STATE
RANDOLPH	BU 63 S	4.298	10/13/2020 0:00	2020	DRY	CLEAR	3534	TUE	1628		27090085	202207313	39.39484	-92.43455	STATE
RANDOLPH	CST URBAN	0.604	2/26/2020 0:00	2020	SNOW	FREEZING	123966	WED	706		22377094	194414804	39.39484	-92.43472	CITY

City of Moberly – Morley Street Traffic Study (Rollins Street to Route M)

B.2.2: Crash Data – summarized by categories

Table 14: Crash Data - Summarized by Categories

Crash Class & Severity Rating

	County	Tway	Log	Crash Class	Date	Year	Severity Rating
analysis							
	2015-2019 (five years)		136			136	
	2015-2020 (six years)		157			157	
						95	PROPERTY DAMAGE ONLY
						30	MINOR INJURY
						1	SUSPECTED SERIOUS INJURY
						10	DISABLING INJURY
						136	
			1	BACKING			
			5	HEAD ON			
		8	4	LEFT TURN			
			4	LEFT TURN RIGHT ANGLE COLLISION			
			1	OTHER			
			6	OUT OF CONTROL			
			1	PEDALCYCLE			
			1	PEDESTRIAN			
	57%	77	77	REAR END			
		35	32	RIGHT ANGLE			
			3	RIGHT TURN RIGHT ANGLE COLLISION			
			1	SIDESWIPE			
		120	136				
		16		All Others			

City of Moberly – Morley Street Traffic Study (Rollins Street to Route M)

Light, Road Surface, & Weather Condition

Segment	Light Cond	Road Surf Cond	Weather Cond
116	DAYLIGHT		
18	DARK W/ STREET LIGHTS ON		
2	DARK W/ STREET LIGHTS OFF		
136			
		110 DRY	
		20 WET	
6		5 SNOW	
		1 ICE	
		136	
		99 CLEAR	
		10 RAIN	
		21 CLOUDY	
	6	5 SNOW	
		1 FREEZING	
		136	

City of Moberly – Morley Street Traffic Study (Rollins Street to Route M)

Crash Rates

Log Point Range for Business 63					
	BU 63 S	2.720	min		
	BU 63 S	4.306	max		
	range	1.586	length		
Crash Rate					
crashes per hundred-million vehicle miles					
		700.5		25	2015
		812.5		29	2016
		924.6		33	2017
		812.5		29	2018
		560.4		20	2019
	733.1	762.1	avg rate	136	5
		588.4		21	2020
	6yr	5yr	annual rate	157	6
	733.1	739.7			
AADT					
			6,165		
	length	rate	AADT		
	0.309	1,221.7	8,862		5
	0.258	618.2	7,226		5
	1.012	576.3	5,073		5
Segments					
	length	begin	end		
	0.315	2.720	3.035	n/o Burkhardt to n/o Carpenter	
	0.255	3.035	3.290	n/o Carpenter to n/o McKinsey	
	1.016	3.290	4.306	n/o McKinsey to Route M	

Intersection & Segment Crashes

crashes by segment (all crashes - including intersections)										
				2015	2016	2017	2018	2019	total	2020
			n/o Burkhardt to n/o Carpenter	16	14	16	10	5	61	10
			n/o Carpenter to n/o McKinsey	4	4	5	5	3	21	3
			n/o McKinsey to Route M	5	11	12	14	12	54	8
				25	29	33	29	20	136	21
									ok	
intersections										
		Bus 63 log point		5-year avg	avg total	act tot				
3	106280	Burk?	Burkhardt is	0.6						
11	106379	Wood?	Woodland is xxx	2.2						
14	106461	Wightman		2.8	13.6	68				
27	106623	Logan		5.4						
2	106789	Lee?	Lee St is 431' (0.082 mi) north of	0.4						
11	106913	Carpenter	3.035	2.2						
2	107047									
1	107205									
1	107316									
23	107374	McKinsey	3.290	4.6						
5	108111									
24	108894	Route M	4.306	4.8						
12		non-intersection		2.4						
136					14.4	72				
4		non-intersection crashes in segment (a) for 2015-2019		0.8	0.8	4				

City of Moberly – Morley Street Traffic Study (Rollins Street to Route M)

B.2.3: Statewide Crash Rates

Table 15: Statewide Crash Rates

Year	GEOGRAPHIC _ AREA	COUNTY_ NAME	ROADWAY_ TYPE_NAME	ONE_YEAR _ RATE	THREE_YEAR _ RATE	FIVE_YEAR _ RATE	LENGTH (miles)	TOTAL_ ACCIDENTS	AVG_DAILY_ TRAFFIC
2018	STATE		TWO-LANE	210.88	210.2	204.91	32257.515	33189	1336.70664
2018	DISTRICT		TWO-LANE	150.24	189.99	192.78	4511.345	2529	1022.28895
2018	COUNTY	ADAIR	TWO-LANE	161.69	193.81	195.07	261.547	126	816.30333
2018	COUNTY	MACON	TWO-LANE	278.2	232.64	218.37	333.889	108	318.54131
2018	COUNTY	RANDOLPH	TWO-LANE	165.34	195.02	195.8	229.266	177	1279.26609

City of Moberly – Morley Street Traffic Study (Rollins Street to Route M)

B.2.4: Highway Safety Manual Calculations

Table 16: Highway Safety Manual Calculations

Rural two-lane intersections				AADT maj	AADT min	N-spf-3ST	N-spf-4ST
				8900	2000	2.9	4.6
Predicted Crashes - existing volumes							
Burkhart Street				8900	500		2.0
Woodland Street				8900	500	1.4	
Wightman Street				8900	2000	2.9	
Logan Street				8900	900	1.9	
Lee Street				8900	500		2.0
Carpenter Street				8900	1400		3.7
						13.9	

CMFs				exist	post-construction	
rural two-lane						
lane width				11.5	12	
AADT > 2000				8862	8862	
9 ft or less						
10 ft						
11 ft				1.05		
12 ft or more					1.0	
shoulder width and type				4' & 6'	1' of c&g	
AADT > 2000						
0 ft				1.50		
1 ft				1.40	1.4	
2 ft				1.30		
4 ft				1.15		
5 ft				1.08		
6 ft				1.00		
8 ft or more				0.87		
horizontal curves (length)				n/a	n/a	
horizontal curves (super-el)				n/a	n/a	
grades				n/a	n/a	
driveway density						
actual				77	63	proposing
cmf				1.95	1.77	not sure w
centerline rumbles				none		
passing lanes				none	none	
two-way left turn lanes				no	yes	
CMF					0.80	
p-dwy					0.57	
p-LT/D					0.5	3/19/21 - t
roadside design						
RHR				2	1	base Road
cmf				0.94	0.87	
lighting				none	none	
automated speed enforcement				none	none	

City of Moberly – Morley Street Traffic Study (Rollins Street to Route M)

3ST, 4ST, 4SG					
skew angle			n/a	n/a	
left turn lanes					
			exist	prop	reduction
3ST					
1 approach			1.0	0.56	44%
2 approaches			1.0	0.31	69%
the 2nd approach should only apply if a driveway is on t					
4ST					
1 approach			1.0	0.72	28%
2 approaches			1.0	0.52	48%
4SG			no new turn lanes at the signal		
right turn lanes					
3ST					
1 approach			1.0	0.86	14%
2 approaches			1.0	0.74	26%
the 2nd approach should only apply if a driveway is on t					
4ST					
1 approach			1.0	0.86	14%
2 approaches			1.0	0.74	26%
4SG			no new turn lanes at the signal		
lighting			same	same	all intersections have the same existing and proposed lighting

[illegible]

Roadside Hazard Rating (RHR)

- RHR 1 = Clear zone greater than or equal to 30 feet; sideslope flatter than 1V:4H, recoverable
- RHR 2 = Clear zone between 20 and 25 feet; sideslopes about 1V:4H, recoverable
- RHR 3 = Clear zone about 10 feet; sideslope about 1V:3H, marginally recoverable
- RHR 4 = Clear zone between 5 and 10 feet; sideslope about 1V:3H, marginally forgiving, increased chance of reportable roadside crash
- RHR 5 = Clear zone between 5 and 10 feet; sideslope about 1V:3H, virtually non-recoverable
- RHR 6 = Clear zone less than or equal to 5 feet; sideslope about 1V:2H, non-recoverable

City of Moberly – Morley Street Traffic Study (Rollins Street to Route M)

- RHR 7 = Clear zone less than or equal to 5 feet; sideslope about 1V:2H, non-recoverable with high likelihood of severe injuries from roadside crash

B.3: MoDOT Functional Classification Map

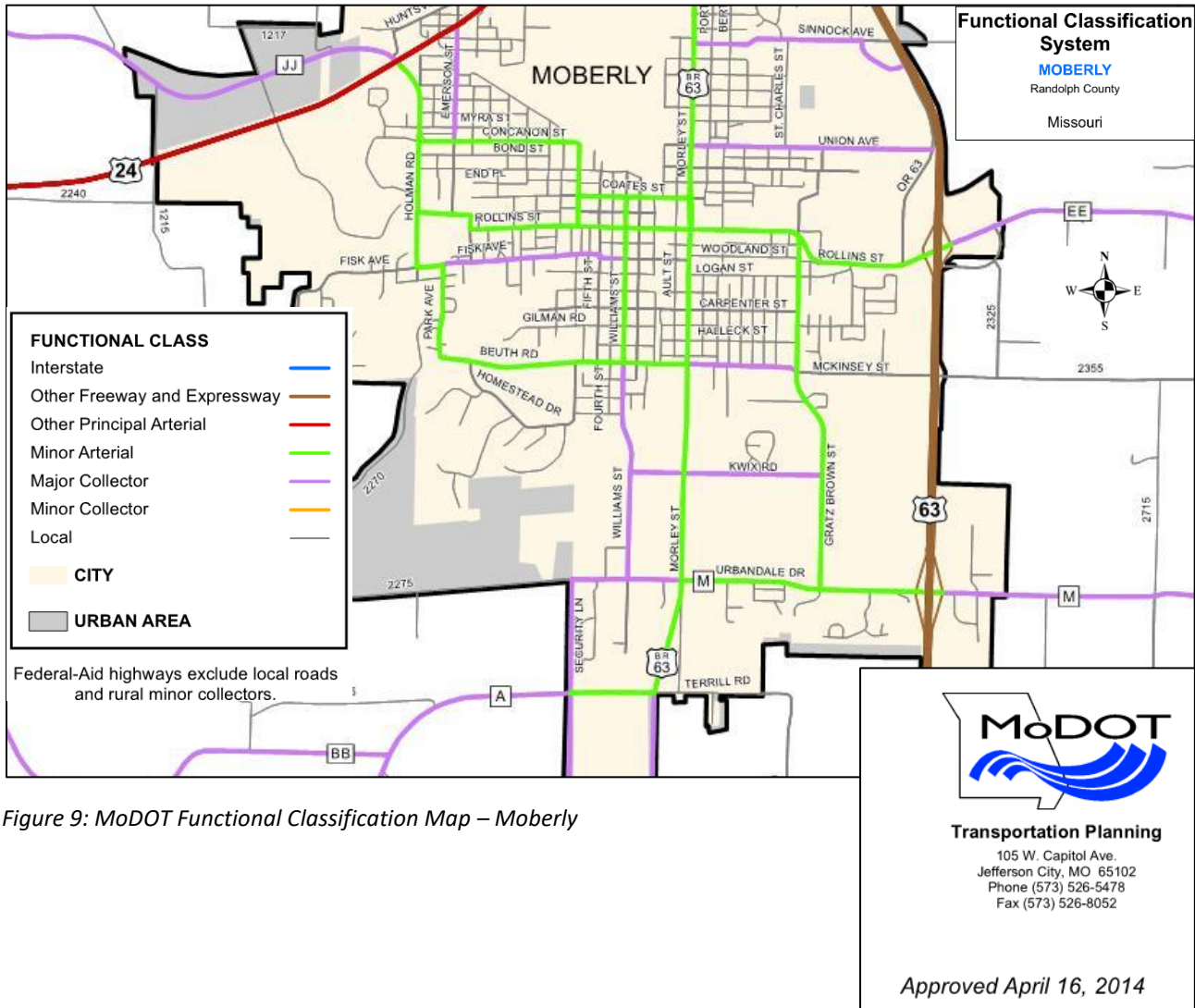


Figure 9: MoDOT Functional Classification Map – Moberly

Appendix C: Cost Estimates

(6 pages)

Preliminary Engineer's Opinion of Probable Construction Costs

Project: Morley Street Improvements

Date: March 26, 2021

Project No.: 19254.029

All Segments along Morley Street

Item No.	Description	Plan Quantity	Unit	Engineer's Estimate	
				Unit Price	Extension
202-20.10	Removal of Improvements	1	LS	\$ 237,000	\$ 237,000
203-99.01	Earthwork	1	LS	\$ 284,000	\$ 284,000
304-05.04	Type 5 Aggregate for Base (4 in. Thick)	16,381	SY	\$ 8	\$ 131,047
304-05.04	Type 5 Aggregate for Base (6 in. Thick)	26,875	SY	\$ 12	\$ 322,501
608-10.10	Concrete Curb Ramp	244	SY	\$ 120	\$ 29,333
608-10.12	Truncated Domes	440	SF	\$ 35	\$ 15,400
608-60.04	Concrete Sidewalk (4" thick x 5' wide)	7,456	SY	\$ 70	\$ 521,889
608-99.01	Optional Pavement @ Stop Controlled Streets	1,653	SY	\$ 100	\$ 165,333
608-99.05	Commercial Driveway Approach / Alleys	2,688	SY	\$ 100	\$ 268,800
608-99.06	Residential Driveway Approach	1,440	SY	\$ 80	\$ 115,200
609-99.03	Type CG-1 Curb and Gutter	3,144	LF	\$ 35	\$ 110,040
726-13.24	24" Class III Reinforced Concrete Pipe Culvert	16,668	LF	\$ 110	\$ 1,833,480
731-99.01	Type A Curb Inlet (2'x4')	67	EA	\$ 3,800	\$ 254,600
	Box Culvert (located aprx. 950' s/o McKinsey St)	55	LF	\$ 500	\$ 27,500
401-99.05	Bituminous Pavement Mixture, Surface (SP-125), 1.5 in.	26,875	SY	\$ 7	\$ 188,126
401-99.35	Bituminous Pavement Mixture, Base, 8.5 in.	26,875	SY	\$ 28	\$ 752,503
616-99.01	Traffic Control	1	LS	\$ 142,000	\$ 142,000
618-10.00	Mobilization	1	LS	\$ 368,000	\$ 368,000
620-00.09	Preformed Thermoplastic Pavement Marking, 6 in. White	1,488	LF	\$ 15	\$ 22,320
	4" White Pavement Marking	16,668	LF	\$ 1	\$ 16,668
	4" Yellow Pavement Marking	18,994	LF	\$ 1	\$ 18,994
627-40.00	Contractor Furnished Surveying and Staking	1	LS	\$ 72,000	\$ 72,000
805-10.00A	Seeding - Cool Season Mixtures	1	LS	\$ 95,000	\$ 95,000
806-99.01	Erosion Control	1	LS	\$ 95,000	\$ 95,000
	Roundabout at Route M	1	LS	\$ 1,000,000	\$ 1,000,000
	Contingency			20%	\$ 1,417,000
	Total Base Construction Bid				\$ 8,503,734
	Preliminary Engineering/Design			20%	\$ 1,700,747
	Construction Engineering			15%	\$ 1,275,560
	Total Project Cost				\$ 11,480,041

This project cost opinion was prepared using bid tabulation information available at the time of preparation and is prepared in good faith using engineer's judgment and experience. The engineer makes no guarantee as to the actual costs for construction. At the time of preparation, the third party utility relocation needs were unknown, and therefore, are not included in this estimate.

Project Details

Roadway Length	8,334	If
Length of Sidewalk Total:	16,668	If
Ramps:	44	ea
Residential Drives:	36	ea
Commercial Drives / Alleys:	56	ea
Stop Controlled Xings:	31	ea

Preliminary Engineer's Opinion of Probable Construction Costs

Project: Morley Street Improvements
Segment 1 - Burkhart St to Carpenter St

Date: March 26, 2021
Project No.: 19254.029

Item No.	Description	Plan Quantity	Unit	Engineer's Estimate	
				Unit Price	Extension
202-20.10	Removal of Improvements	1	LS	\$ 46,000	\$ 46,000
203-99.01	Earthwork	1	LS	\$ 55,000	\$ 55,000
304-05.04	Type 5 Aggregate for Base (4 in. Thick)	3,597	SY	\$ 8	\$ 28,773
304-05.04	Type 5 Aggregate for Base (6 in. Thick)	4,347	SY	\$ 12	\$ 52,160
608-10.10	Concrete Curb Ramp	100	SY	\$ 120	\$ 12,000
608-10.12	Truncated Domes	180	SF	\$ 35	\$ 6,300
608-60.04	Concrete Sidewalk (4" thick x 5' wide)	1,333	SY	\$ 70	\$ 93,333
608-99.01	Optional Pavement @ Stop Controlled Streets	373	SY	\$ 100	\$ 37,333
608-99.05	Commercial Driveway Approach / Alleys	624	SY	\$ 100	\$ 62,400
608-99.06	Residential Driveway Approach	400	SY	\$ 80	\$ 32,000
609-99.03	Type CG-1 Curb and Gutter	866	LF	\$ 35	\$ 30,310
726-13.24	24" Class III Reinforced Concrete Pipe Culvert	3,260	LF	\$ 110	\$ 358,600
731-99.01	Type A Curb Inlet (2'x4')	14	EA	\$ 3,800	\$ 53,200
401-99.05	Bituminous Pavement Mixture, Surface (SP-125), 1.5 in.	4,347	SY	\$ 7	\$ 30,427
401-99.35	Bituminous Pavement Mixture, Base, 8.5 in.	4,347	SY	\$ 28	\$ 121,707
616-99.01	Traffic Control	1	LS	\$ 28,000	\$ 28,000
618-10.00	Mobilization	1	LS	\$ 71,000	\$ 71,000
620-00.09	Preformed Thermoplastic Pavement Marking, 6 in. White	336	LF	\$ 15	\$ 5,040
	4" White Pavement Marking	3,260	LF	\$ 1	\$ 3,260
	4" Yellow Pavement Marking	3,260	LF	\$ 1	\$ 3,260
627-40.00	Contractor Furnished Surveying and Staking	1	LS	\$ 14,000	\$ 14,000
805-10.00A	Seeding - Cool Season Mixtures	1	LS	\$ 18,000	\$ 18,000
806-99.01	Erosion Control	1	LS	\$ 18,000	\$ 18,000
	Contingency			20%	\$ 236,000
	Total Base Construction Bid				\$ 1,416,103
	Preliminary Engineering/Design			20%	\$ 283,221
	Construction Engineering			15%	\$ 212,415
	Total Project Cost				\$ 1,911,739

This project cost opinion was prepared using bid tabulation information available at the time of preparation and is prepared in good faith using engineer's judgment and experience. The engineer makes no guarantee as to the actual costs for construction. At the time of preparation, the third party utility relocation needs were unknown, and therefore, are not included in this estimate.

Project Details

Roadway Length	1,630	lf
Length of Sidewalk Total:	3,260	lf
Ramps:	18	ea
Residential Drives:	10	ea
Commercial Drives / Alleys:	13	ea
Stop Controlled Xings:	7	ea

Preliminary Engineer's Opinion of Probable Construction Costs

Project: Morley Street Improvements
Segment 2 - Carpenter St to McKinsey St

Date: March 26, 2021
Project No.: 19254.029

Item No.	Description	Plan Quantity	Unit	Engineer's Estimate	
				Unit Price	Extension
202-20.10	Removal of Improvements	1	LS	\$ 38,000	\$ 38,000
203-99.01	Earthwork	1	LS	\$ 45,000	\$ 45,000
304-05.04	Type 5 Aggregate for Base (4 in. Thick)	2,820	SY	\$ 8	\$ 22,560
304-05.04	Type 5 Aggregate for Base (6 in. Thick)	3,627	SY	\$ 12	\$ 43,520
608-10.10	Concrete Curb Ramp	89	SY	\$ 120	\$ 10,667
608-10.12	Truncated Domes	160	SF	\$ 35	\$ 5,600
608-60.04	Concrete Sidewalk (4" thick x 5' wide)	1,133	SY	\$ 70	\$ 79,333
608-99.01	Optional Pavement @ Stop Controlled Streets	427	SY	\$ 100	\$ 42,667
608-99.05	Commercial Driveway Approach / Alleys	576	SY	\$ 100	\$ 57,600
608-99.06	Residential Driveway Approach	80	SY	\$ 80	\$ 6,400
609-99.03	Type CG-1 Curb and Gutter	604	LF	\$ 35	\$ 21,140
726-13.24	24" Class III Reinforced Concrete Pipe Culvert	2,720	LF	\$ 110	\$ 299,200
731-99.01	Type A Curb Inlet (2'x4')	11	EA	\$ 3,800	\$ 41,800
401-99.05	Bituminous Pavement Mixture, Surface (SP-125), 1.5 in.	3,627	SY	\$ 7	\$ 25,387
401-99.35	Bituminous Pavement Mixture, Base, 8.5 in.	3,627	SY	\$ 28	\$ 101,547
616-99.01	Traffic Control	1	LS	\$ 23,000	\$ 23,000
618-10.00	Mobilization	1	LS	\$ 59,000	\$ 59,000
620-00.09	Preformed Thermoplastic Pavement Marking, 6 in. White	384	LF	\$ 15	\$ 5,760
	4" White Pavement Marking	2,720	LF	\$ 1	\$ 2,720
	4" Yellow Pavement Marking	2,720	LF	\$ 1	\$ 2,720
627-40.00	Contractor Furnished Surveying and Staking	1	LS	\$ 12,000	\$ 12,000
805-10.00A	Seeding - Cool Season Mixtures	1	LS	\$ 15,000	\$ 15,000
806-99.01	Erosion Control	1	LS	\$ 15,000	\$ 15,000
	Contingency			20%	\$ 195,000
	Total Base Construction Bid				\$ 1,170,621
	Preliminary Engineering/Design			20%	\$ 234,124
	Construction Engineering			15%	\$ 175,593
	Total Project Cost				\$ 1,580,338

This project cost opinion was prepared using bid tabulation information available at the time of preparation and is prepared in good faith using engineer's judgment and experience. The engineer makes no guarantee as to the actual costs for construction. At the time of preparation, the third party utility relocation needs were unknown, and therefore, are not included in this estimate.

Project Details

Roadway Length	1,360	lf
Length of Sidewalk Total:	2,720	lf
Ramps:	16	ea
Residential Drives:	2	ea
Commercial Drives / Alleys:	12	ea
Stop Controlled Xings:	8	ea

Preliminary Engineer's Opinion of Probable Construction Costs

Project: Morley Street Improvements
Segment 3 - McKinsey St to Kwix Rd

Date: March 26, 2021
Project No.: 19254.029

Item No.	Description	Plan Quantity	Unit	Engineer's Estimate	
				Unit Price	Extension
202-20.10	Removal of Improvements	1	LS	\$ 70,000	\$ 70,000
203-99.01	Earthwork	1	LS	\$ 84,000	\$ 84,000
304-05.04	Type 5 Aggregate for Base (4 in. Thick)	4,664	SY	\$ 8	\$ 37,310
304-05.04	Type 5 Aggregate for Base (6 in. Thick)	7,120	SY	\$ 12	\$ 85,440
608-10.10	Concrete Curb Ramp	33	SY	\$ 120	\$ 4,000
608-10.12	Truncated Domes	60	SF	\$ 35	\$ 2,100
608-60.04	Concrete Sidewalk (4" thick x 5' wide)	2,578	SY	\$ 70	\$ 180,444
608-99.01	Optional Pavement @ Stop Controlled Streets	160	SY	\$ 100	\$ 16,000
608-99.05	Commercial Driveway Approach / Alleys	816	SY	\$ 100	\$ 81,600
608-99.06	Residential Driveway Approach	320	SY	\$ 80	\$ 25,600
609-99.03	Type CG-1 Curb and Gutter	790	LF	\$ 35	\$ 27,650
726-13.24	24" Class III Reinforced Concrete Pipe Culvert	5,340	LF	\$ 110	\$ 587,400
731-99.01	Type A Curb Inlet (2'x4')	22	EA	\$ 3,800	\$ 83,600
	Box Culvert (located apprx. 950' s/o McKinsey St)	55	LF	\$ 500	\$ 27,500
401-99.05	Bituminous Pavement Mixture, Surface (SP-125), 1.5 in.	7,120	SY	\$ 7	\$ 49,840
401-99.35	Bituminous Pavement Mixture, Base, 8.5 in.	7,120	SY	\$ 28	\$ 199,360
616-99.01	Traffic Control	1	LS	\$ 42,000	\$ 42,000
618-10.00	Mobilization	1	LS	\$ 109,000	\$ 109,000
620-00.09	Preformed Thermoplastic Pavement Marking, 6 in. White	144	LF	\$ 15	\$ 2,160
	4" White Pavement Marking	5,340	LF	\$ 1	\$ 5,340
	4" Yellow Pavement Marking	5,340	LF	\$ 1	\$ 5,340
627-40.00	Contractor Furnished Surveying and Staking	1	LS	\$ 22,000	\$ 22,000
805-10.00A	Seeding - Cool Season Mixtures	1	LS	\$ 28,000	\$ 28,000
806-99.01	Erosion Control	1	LS	\$ 28,000	\$ 28,000
	Contingency			20%	\$ 361,000
	Total Base Construction Bid				\$ 2,164,684
	Preliminary Engineering/Design			20%	\$ 432,937
	Construction Engineering			15%	\$ 324,703
	Total Project Cost				\$ 2,922,324

This project cost opinion was prepared using bid tabulation information available at the time of preparation and is prepared in good faith using engineer's judgment and experience. The engineer makes no guarantee as to the actual costs for construction. At the time of preparation, the third party utility relocation needs were unknown, and therefore, are not included in this estimate.

Project Details

Roadway Length	2,670	If
Length of Sidewalk Total:	5,340	If
Ramps:	6	ea
Residential Drives:	8	ea
Commercial Drives / Alleys:	17	ea
Stop Controlled Xings:	3	ea

Preliminary Engineer's Opinion of Probable Construction Costs

Project: Morley Street Improvements
Segment 4 - Kwix Rd to Route M

Date: March 26, 2021
Project No.: 19254.029

Item No.	Description	Plan Quantity	Unit	Engineer's Estimate	
				Unit Price	Extension
202-20.10	Removal of Improvements	1	LS	\$ 72,000	\$ 72,000
203-99.01	Earthwork	1	LS	\$ 86,000	\$ 86,000
304-05.04	Type 5 Aggregate for Base (4 in. Thick)	5,300	SY	\$ 8	\$ 42,404
304-05.04	Type 5 Aggregate for Base (6 in. Thick)	7,131	SY	\$ 12	\$ 85,568
608-10.10	Concrete Curb Ramp	22	SY	\$ 120	\$ 2,667
608-10.12	Truncated Domes	40	SF	\$ 35	\$ 1,400
608-60.04	Concrete Sidewalk (4" thick x 5' wide)	2,411	SY	\$ 70	\$ 168,778
608-99.01	Optional Pavement @ Stop Controlled Streets	693	SY	\$ 100	\$ 69,333
608-99.05	Commercial Driveway Approach / Alleys	672	SY	\$ 100	\$ 67,200
608-99.06	Residential Driveway Approach	640	SY	\$ 80	\$ 51,200
609-99.03	Type CG-1 Curb and Gutter	884	LF	\$ 35	\$ 30,940
726-13.24	24" Class III Reinforced Concrete Pipe Culvert	5,348	LF	\$ 110	\$ 588,280
731-99.01	Type A Curb Inlet (2'x4')	22	EA	\$ 3,800	\$ 83,600
401-99.05	Bituminous Pavement Mixture, Surface (SP-125), 1.5 in.	7,131	SY	\$ 7	\$ 49,915
401-99.35	Bituminous Pavement Mixture, Base, 8.5 in.	7,131	SY	\$ 28	\$ 199,659
616-99.01	Traffic Control	1	LS	\$ 43,000	\$ 43,000
618-10.00	Mobilization	1	LS	\$ 112,000	\$ 112,000
620-00.09	Preformed Thermoplastic Pavement Marking, 6 in. White	624	LF	\$ 15	\$ 9,360
	4" White Pavement Marking	5,348	LF	\$ 1	\$ 5,348
	4" Yellow Pavement Marking	5,348	LF	\$ 1	\$ 5,348
627-40.00	Contractor Furnished Surveying and Staking	1	LS	\$ 22,000	\$ 22,000
805-10.00A	Seeding - Cool Season Mixtures	1	LS	\$ 29,000	\$ 29,000
806-99.01	Erosion Control	1	LS	\$ 29,000	\$ 29,000
	Contingency			20%	\$ 371,000
	Total Base Construction Bid				\$ 2,225,000
	Preliminary Engineering/Design			20%	\$ 445,000
	Construction Engineering			15%	\$ 333,750
	Total Project Cost				\$ 3,003,750

This project cost opinion was prepared using bid tabulation information available at the time of preparation and is prepared in good faith using engineer's judgment and experience. The engineer makes no guarantee as to the actual costs for construction. At the time of preparation, the third party utility relocation needs were unknown, and therefore, are not included in this estimate.

Project Details

Roadway Length	2,674	lf
Length of Sidewalk Total:	5,348	lf
Ramps:	4	ea
Residential Drives:	16	ea
Commercial Drives / Alleys:	14	ea
Stop Controlled Xings:	13	ea

Preliminary Engineer's Opinion of Probable Construction Costs

Project: Morley Street Improvements
Segment 5 - Route M Roundabout

Date: March 26, 2021
Project No.: 19254.029

Item No.	Description	Plan Quantity	Unit	Engineer's Estimate	
				Unit Price	Extension
202-20.10	Removal of Improvements	1	LS	\$ 50,000	\$ 50,000
203-99.01	Earthwork	1	LS	\$ 60,000	\$ 60,000
616-99.01	Traffic Control	1	LS	\$ 30,000	\$ 30,000
618-10.00	Mobilization	1	LS	\$ 8,000	\$ 8,000
627-40.00	Contractor Furnished Surveying and Staking	1	LS	\$ 15,000	\$ 15,000
805-10.00A	Seeding - Cool Season Mixtures	1	LS	\$ 20,000	\$ 20,000
806-99.01	Erosion Control	1	LS	\$ 20,000	\$ 20,000
	Roundabout at Route M	1	LS	\$ 1,000,000	\$ 1,000,000
	Contingency			20%	\$ 241,000
	Total Base Construction Bid				\$ 1,444,000
	Preliminary Engineering/Design			20%	\$ 288,800
	Construction Engineering			15%	\$ 216,600
	Total Project Cost				\$ 1,949,400

This project cost opinion was prepared using bid tabulation information available at the time of preparation and is prepared in good faith using engineer's judgment and experience. The engineer makes no guarantee as to the actual costs for construction. At the time of preparation, the third party utility relocation needs were unknown, and therefore, are not included in this estimate.

Project Details

Roadway Length	0	If
Length of Sidewalk Total:	0	If
Ramps:	0	ea
Residential Drives:	0	ea
Commercial Drives / Alleys:	0	ea
Stop Controlled Xings:	0	ea

Appendix D: Works Cited

Google Earth

Moberly, MO. Images retrieved March 2021.

Google Maps

<https://www.google.com/maps>

Moberly, MO. Images retrieved March 2021.

Highway Safety Manual (HSM), 2010 Edition with 2014 Supplement

Chapter 10, Predictive Method for Rural Two-Lane, Two-Way Roads

Equation 10-6: Rural two-lane, two-way roadway segments

Equation 10-8: Three-Leg Stop-Controlled Intersections

Equation 10-9: Four-Leg Stop-Controlled Intersections

Table 10-7: CMF for Chapter 10

Manual on Uniform Traffic Control Devices (MUTCD), 2009 Edition

https://mutcd.fhwa.dot.gov/pdfs/2009r1r2/pdf_index.htm

Missouri Department of Transportation

Engineering Policy Guide (EPG)

https://epg.modot.org/index.php/Main_Page

940.11: Three-Lane Cross-Sections

https://epg.modot.org/index.php/940.11_Three-Lane_Cross-Sections

Functional Classification Map

<https://www.modot.org/functional-classification-maps>

https://www.modot.org/sites/default/files/documents/Moberly_0.pdf

MoDOT Data Zone

<http://modatazone.modot.org/>

Crash Data

<https://datazoneapps.modot.mo.gov/bi/apps/crashes>

Traffic Data

<http://modatazone.modot.org/index.php/traffic>

Average Annual Daily Traffic Map

<https://datazoneapps.modot.mo.gov/bi/apps/maps/Home/Index/AADT>

Bartlett & West

Project: Morley Street Improvements (Burkhard Street to Route M)

Item No.	Description	Plan Quantity	Unit	Engineer's Estimate		Expenditure Schedule (Includes 3% Inflation)				
				Unit Price	Extension	FY22	FY23	FY24	FY25	Total Expenditure
202-20-1D	Removal of Improvements									
201-99-0T	Earthwork	4	LS	\$ 46,000	\$ 46,000					
304-05-04	Type 5 Aggregate for Base (4 in Thick)	3,587	SV	\$ 15,000	\$ 55,000					
304-05-04	Type 5 Aggregate for Base (6 in Thick)	4,347	SV	\$ 8	\$ 26,773					
608-10-1G	Concrete Curb Ramp	100	SV	\$ 123	\$ 52,160					
608-10-1Z	Formed Drains	180	PF	\$ 35	\$ 6,300					
609-00-0A	Concrete Sidewalk (2' thick x 8' wide)	1,333	SV	\$ 79	\$ 93,333					
609-00-0T	Optical Pavement @ Slope Corrected Streets	373	SV	\$ 100	\$ 37,333					
609-09-05	Commercial Driveway Approach	624	SV	\$ 100	\$ 62,400					
609-09-0F	Roadside Driveway Approach	400	SV	\$ 80	\$ 32,000					
609-09-0J	Type C/C - Curb and Gutter	866	LF	\$ 35	\$ 30,310					
128-13-24	24" Class III Reinforced Concrete Pipe Culvert	3,280	LF	\$ 110	\$ 360,000					
731-99-0T	Type A Curb Inlet (2x4')	14	EA	\$ 3,800	\$ 53,200					
401-99-05	Bimaneous Pavement Material, Surface (SF, 220) 1.5 in.	4,347	SV	\$ 7	\$ 30,427					
401-99-35	Bimaneous Pavement Material, Base, 8.5 in.	4,347	SV	\$ 29	\$ 127,107					
616-99-0T	Traffic Control	4	LS	\$ 28,000	\$ 28,000					
618-10-0B	Mobilization	4	LS	\$ 71,000	\$ 71,000					
620-00-0B	Predictive Thermoplastic Pavement Marking 6 in White	336	LF	\$ 15	\$ 5,040					
	4" White Forensic Marking	3,280	LF	\$ 1	\$ 3,280					
627-40-0E	4" Yellow Pavement Marking	3,280	LF	\$ 1	\$ 3,280					
	Contractor Furnishes Surveying and Staking	4	LS	\$ 14,000	\$ 14,000					
805-10-BDA	Seeding - Good Season Mixtures	4	LS	\$ 18,000	\$ 18,000					
808-00-0T	Erosion Control	4	LS	\$ 18,000	\$ 18,000					
	Contingency			20%	\$ 236,000					
	Total Base Construction Bid				\$ 1,416,103		\$ 773,739	\$ 796,919	\$ 1,570,527	
	Preliminary Engineering Design			20%	\$ 283,221	\$ 146,869			\$ 300,891	
	Construction Engineering			15%	\$ 212,415	\$ 116,056			\$ 238,554	
	ROW Acquisition (assumed donated)									
	Inflation (assumes 3% annual)			3.0%	\$ 185,083					
	Total Project Cost				\$ 2,106,822	\$ 146,859	\$ -	\$ 1,044,506	\$ 516,457	

The proposed model was prepared using the simulation software package in the form of a program and is prepared to good with any engine's configuration and equipment. The engine number or quantity can be entered into the actual code for calculation.

Project Details	
Roadway Length	1,630 ft
Length of Sidewalk Total	3,260 ft
Pavement	16 in
Residential Driveway	10 in
Commercial Driveway / Alleys	13 in
Stop Controlled Intersections	7

City of Moberly

City Council Agenda Summary

Agenda Number: WS #6.

Department: Parks and Recreation

Date: August 2, 2021

Agenda Item: Aquatic Center Repainting

Summary: We advertised in the newspaper for bids and directly reached out to contractors recommended by Tnemec as usual. We received three bid responses. See attachment.

This is a budgeted project. There will be a little more involved than anticipated because we have had some paint chipping in the channel area and at some of the concrete joints which will require brush blasting to remove all loose material, but we should still fall within budget. We purchase the paint directly through Tnemec as it is more affordable this way and bid out the labor. Tnemec is the original paint used for the aquatic center and is one of the most durable in aquatic environments, used for things from aquatic centers to water towers.

Staff recommends approval of the low bid (\$21,586) from CCIMW. Tnemec vouched for the quality of their work on prior jobs. We anticipate work to be done late September/early October while the weather is still warm.

Recommended

Action: Request staff bring a resolution to the August 16, 2021 meeting for approval.

Fund Name: Parks and Recreation – Aquatic Center – General Equipment Maintenance

Account Number: 115.042.5311

Available Budget \$: \$34,502.62

ATTACHMENTS:		Roll Call	Aye	Nay
<input type="checkbox"/> Memo	<input type="checkbox"/> Council Minutes	Mayor		
<input type="checkbox"/> Staff Report	<input type="checkbox"/> Proposed Ordinance	M___ S___ Jeffrey	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Correspondence	<input type="checkbox"/> Proposed Resolution			
<input checked="" type="checkbox"/> Bid Tabulation	<input type="checkbox"/> Attorney's Report	Council Member		
<input type="checkbox"/> P/C Recommendation	<input type="checkbox"/> Petition	M___ S___ Brubaker	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> P/C Minutes	<input type="checkbox"/> Contract	M___ S___ Kimmons	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Application	<input type="checkbox"/> Budget Amendment	M___ S___ Davis	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Citizen	<input type="checkbox"/> Legal Notice	M___ S___ Kyser	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Consultant Report	<input type="checkbox"/> Other _____		Passed	Failed

Repainting Aquatic Center

WS #6.

CITY OF MOBERLY

"BID OPENING"

Date: 7/26/2021, 2:00 pm Sign-In Sheet

Name

Shannon Hance

Leslie Keeney

Company

City of Moberly

City of Moberly - P&R

Repainting Aquatic Center

WS #6.

CITY OF MOBERLY

"BID OPENING"

Date: 7/26/2021, 2:00 pm

Jos. Ward Painting Co
Painting
Bazan Painting Co

CCIMW

\$ 23,944 - Sand Blast / \$ 11,498 Painting
Caulk #6, 24 LF Patching 1 coat
740 hrs @
\$ 39,863.00 Base Bid 70,400
material +
\$ 21,586.00 Base Bid 10% mark-up

\$ _____

\$ _____

\$ _____

\$ _____

\$ _____

\$ _____

\$ _____

\$ _____

\$ _____

\$ _____

\$ _____



**Quality and dedication
since 1870**

8040 Litzsinger Rd. St. Louis, Mo. 63144 --- phone 314-644-0500 -- fax 314-644-3355

BID PROPOSAL

PROJECT NAME: Moberly Aquatic Center

Location: 100 Rothwell Park Rd. Moberly Mo 65270

BID DATE: 7/13/2021

Site Visit Date: 7/7/2021

Site Visit Contact: Troy Bock

Contact email: tbock@cityofmoberly.com

Contact phone: 660-269-7613

ESTIMATE PREPARED BY: *Brian Rhodes*

brianr@joswardpaintingco.com

cell – 314-479-6670

\$23,944 Brush Blasting Pool

\$11,498 Painting Pool 1 coat

Removing and Replacing Caulk \$6.24 LF

Patching anything in pool Time and Material Not to exceed 40 hours. Labor Rate of \$76.40 Material cost plus 10% mark up.

SCOPE OF WORK INCLUDES FINISHES OF:

Scarify entire surface of pool by brush blasting to assure adhesion of topcoat and remove any loose non-adherent materials. Spot prime all bare areas of concrete. Remove all left-over material from pool into dumpster. Power wash pool to remove any dirt, grease, and oil from pool. All cracks will be routed out and voids then Fill cracks flush with surface using Series 215 Surfacing Epoxy. Paint pool with 1 coat of Series 161 Tneme-Fascure. Apply striping, numbers and targets after final coat of 161 Tneme-Fascure has cured for at least 24 hours.

SCOPE OF WORK EXCLUDES FINISHES OF:

Painting any slides. Painting any slide structures. Draining water out of pool. Repairs to finish damages, Supplying any paint or thinner for project. Stress cracks will not be patched less than a 1/8 inch.

QUALIFICATIONS: All work performed during normal work hours

Authorized Customer Signature

Title/Position at Company

Date of Acceptance

Printed Customer Signature

EXHIBIT A

FEDERAL WORK AUTHORIZATION PROGRAM AFFIDAVIT

I, Joseph Ward, being of legal age and having been duly sworn upon my Oath, state the following facts are true:

1. I am more than twenty-one years of age; and have first-hand knowledge of the Matters set forth herein.
2. I am employed by Jos. Ward Painting Co. (hereinafter "Company")
And have authority to issue this affidavit on its behalf.
3. Company is enrolled in and participating in the United States E-Verify (formerly Known as "Basic Pilot") federal work authorization program with respect to Company's Employees working in connection with the services Company is providing to, or will Provide to, the District, to the extent allowed by E-Verify.
4. Company does not knowingly employ any person who is an unauthorized alien in Connection with the services Company is providing to, or will provide to, the District.

FURTHER AFFIANT SAYETH NOT.

By: _____ (individual signature)

For Jos Ward Painting Co (company name)

Title: President

Subscribed and sworn to before me on this 22 day of July, 2021

Michelle M Reeves

NOTARY PUBLIC



MICHELLE M REEVES
My Commission Expires
September 18, 2021
St. Louis County
Commission #17946020

My commission expires:

BAZAN PAINTING COMPANY

1273 N. PRICE RD
St. Louis, MO 63132
www.bazanpainting.com

P: 314-991-3500
F: 314-991-5108

July 21, 2021

Shannon Hance, City Clerk
Moberly City Hall

RE: Moberly Aquatic Center Painting

Dear Shannon:

Per your request, we submit the following on the above referenced project.

We propose to supply all necessary labor, materials, taxes, and full insurance coverage to perform the following scope of work per the provided specifications.

- Pool is to be drained and free of debris by others prior to our arrival.
- Pressure washing of pool surfaces with TSP and rinsing of pool surfaces.
- Brush- sandblasting of pool surfaces to be painted.
- Clean up and disposal of all sandblast debris and residue.
- Minor patching of static cracks and voids/bug holes with Tnemec 215 is included. If we find that more than minor patching is required after sandblasting, we will notify you immediately before proceeding.
- Cracks will be routed out and primed prior to patching.
- All patches will be grinded, and spot primed before applying the finish coat of epoxy. Additionally, any bare concrete areas will be spot primed.
- Painting of pool with one coat of Tnemec 161 catalyzed epoxy in the color Star . Tops of gutters and down the wall 6 inches will receive the color Water Front.
- All lane lines, targets, stair nosings, safety ledges, deep water warning line and depth markers in the pool will receive two coats of Tnemec 161 catalyzed epoxy in the color Black.
- We will use silica sand to apply a non-skid texture to the tops of steps and to all pool floor areas 18 inches deep and shallower.
- Pool expansion joints will be filled or repaired with a polysulfide caulk as needed.
- All paint, patch and thinner to be provided by the city and is not included in the base bid below.

BASE BID..... \$39,863.00

Exclusions:

1. Purchase of Tnemec paint, patch and thinner.

Page 2

Bazan Painting Company's standard warranty is for a period of one-year covering defects in workmanship and craftsmanship. Bazan Painting Company cannot be responsible for hydrostatic pressure problems during the coating process or curing process. **It is the Owner's responsibility to keep water and debris out of the pool during the curing process. When we are finished painting we remove our sump pump. If you do not have a sump pump we can provide one to you at a cost of \$100.00** The epoxy that was applied, in its dry state, is very slippery. When cleaning debris and water out of the pool, please make sure that you have a rope or some other apparatus to assist in leaving the deep end. This pool cannot be filled until sufficient cure time has been achieved according to the manufacturers specifications. It is the Owner's responsibility to maintain proper water chemistry, pH and calcium levels or this will invalidate the warranty.

HYDROSTATIC CLAUSE: Due to the uncertainty of the amount of water that the soil is holding around the pool, Bazan Painting Company cannot accept responsibility for damage done to the pool from excess moisture in the ground. This could include cracking or the pool moving from the original placement in the ground (known as floating).

This proposal is valid for a period of 30 days from the above date, unless otherwise stated in the specifications. Our proposal is based upon mutually agreed upon contract terms, or the AIA A401, 1997 or AGC ASA Consensus Documents 750, 2007. Thank you and if you have any further questions, please feel free to contact me.

Sincerely,



Eric Hellwig

Estimator

BAZAN PAINTING COMPANY

314-749-1616



E-VERIFY IS A SERVICE OF DHS

Company ID Number: 176797

To be accepted as a participant in E-Verify, you should only sign the Employer's Section of the signature page. If you have any questions, contact E-Verify at 888-464-4218.

Employer: BAZAN PAINTING CO

JODI REYNOLDS

Name (Please Type or Print)

Title

Electronically Signed

Signature

01/07/2009

Date

Department of Homeland Security – Verification Division

USCIS Verification Division

Name (Please Type or Print)

Title

Electronically Signed

Signature

01/07/2009

Date



PAINTING / WALLCOVERING / INDUSTRIAL COATINGS

July 23, 2021

Attention: City of Moberly

Re: Moberly Aquatic Center Painting

We propose to furnish all necessary labor and sundries to paint the above job.

- Brush blast entire surface of the pool that is to receive paint according to the manufacturer's recommendations
- Clean up sand and debris from pool
- Power wash pool to remove dust and imbedded blast media
- Crack chase cracks and fill using Thiemec 215 patch
- Spot prime patched and bare areas using owner supplied paint
- Paint entire pool with one coat of owner supplied paint
- Layout and mask off striping, bull nosing, and depth markers and apply two coats of paint for coverage

Base bid..... \$21,586

Clarifications:

- Pool to be drained by others
- Not responsible for hydrostatic pressure issues
- Manufacture recommends entire surface to be painted to be sandblasted
- Paint to be supplied by owner
- No stenciling to be done on top of deck
- Nonskid finish to be applied on surfaces that are above 18" of water

CCIMW is 100% WBE

Respectfully Submitted,

Joe Rickelmann

Cell: 314-623-9007

We appreciate the opportunity to furnish you with this proposal and look forward to working with you on this project. This bid assumes that if it is granted, all parties will work together to develop a mutually agreeable construction schedule. This bid is also based on information provided at this time. Any revisions required later, will be subject to price review at that time. We reserve the right to withdraw this bid if it is not accepted within 45 days. If you have any questions, please feel free to call.

The City expressly reserves its rights to withhold, in good faith, payment or final payment in accordance with Section 34.057.5, RSMo, and in accord with the contract awarded as a result of this Invitation for Bids. Final payments will be made in accordance with Section 34.057.1(8), RSMo.

Commencement and Completion of Work

The Work shall be commenced such that quality workmanship and completion is achieved by **Friday October 1, 2021**, subject to Excusable Delays.

Excusable Delays shall be delays or temporary inability to commence, complete or proceed in accordance with the foregoing schedule, due in whole or in part to causes beyond the reasonable control or without the material fault of the contractor which are caused by the action or failure to act of any governmental body, including but not limited to the issuance of permits and approvals by the City, acts of war or civil insurrection, or any natural occurrence, strikes, lock-outs, riots, floods, earthquakes, fires, casualties, acts of God, labor disputes, governmental restrictions or priorities, embargoes, litigation, tornadoes, or unusually severe weather.

7/23/21 
Date

City of Moberly
City Hall
101 West Reed Street
Moberly, MO 65270
Troy Bock
(660) 269-8705 x2013
tbock@cityofmoberly.com

City of Moberly

City Council Agenda Summary

Agenda Number: _____

WS #7.

Department: Public Works

Date: August 2, 2021

Agenda Item: Robert J. O'Loughlin has requested five (5) properties from the city for re-development.

Summary: See attached agreements.

Recommended Action: Direct staff to bring forward to August 16, 2021 regular City Council meeting for final approval.

Fund Name: N/A

Account Number: N/A

Available Budget \$: N/A

ATTACHMENTS:

<input type="checkbox"/> Memo	<input type="checkbox"/> Council Minutes
<input type="checkbox"/> Staff Report	<input type="checkbox"/> Proposed Ordinance
<input type="checkbox"/> Correspondence	<input type="checkbox"/> Proposed Resolution
<input type="checkbox"/> Bid Tabulation	<input type="checkbox"/> Attorney's Report
<input type="checkbox"/> P/C Recommendation	<input type="checkbox"/> Petition
<input type="checkbox"/> P/C Minutes	<input type="checkbox"/> Contract
<input type="checkbox"/> Application	<input type="checkbox"/> Budget Amendment
<input type="checkbox"/> Citizen	<input type="checkbox"/> Legal Notice
<input type="checkbox"/> Consultant Report	<input checked="" type="checkbox"/> Other <u>Agreements</u>

Roll Call

Aye

Nay

Mayor

M___ S___ Jeffrey

Council Member

M___ S___ Brubaker

M___ S___ Kimmons

M___ S___ Davis

M___ S___ Kyser

Passed

Failed

COOPERATIVE AGREEMENT FOR INFILL DEVELOPMENT

THIS COOPERATIVE AGREEMENT FOR INFILL DEVELOPMENT (this "Agreement") is made and entered into as of this _____ day of _____, 2021 (the "Effective Date") by and between THE CITY OF MOBERLY, a city of the third class and a Missouri municipality having a principal office at 101 West Reed Street, Moberly, Missouri, 65270 (the "City") and Budingen Group LLC, a Missouri Limited Liability Company, having a business office at PO Box 546, Moberly, Missouri, 65270 (the "Developer").

RECITALS

A. The Developer wishes to acquire and redevelop Property which is currently vacant and underutilized and which activities by the Developer the City recognizes will facilitate the City's economic development goals and improve property values in the area where the Property is located.

B. The City is willing to convey the Property to the Developer pursuant to the terms of this Agreement in exchange for the Developer's promise to expend the Developer's funds to construct a residence on the Property, all in accordance with the terms of this Agreement and building plans submitted to the City.

AGREEMENT

NOW, THEREFORE, in consideration of the above premises and the mutual promises and covenants set forth in this Agreement, the City and Developer each hereby agrees as follows:

ARTICLE I. THE PROPERTY AND CONSTRUCTION

Section 1.1. Conveyance of the Property. Subject to the terms and conditions of this Agreement, the City agrees to convey vacant infill property zoned for residential use in exchange for Developer's agreement to construct a residence in conformance with building plans submitted and approved by the City.

Section 1.2. The Property. The Property shall mean the generally vacant and unimproved lots numbered as 817 Bond Street and further depicted and legally described as All of Lot Fifteen (15) of Block Three (3) of Barrow's Addition to Moberly, Randolph County, Missouri.

Section 1.3. Construction. The Developer shall deposit \$1,000.00 (the "deposit") within thirty (30) days of the Effective Date. The Developer shall pay for all permitting fees and other standard construction costs which costs will be deducted from the deposit. Developer shall submit building plans and make application for a building permit within thirty (90) days of the Effective Date. Developer agrees to initiate construction within thirty (30) days of receipt of the building permit. Developer agrees to complete construction of the residence within eighteen (18) months of the Effective Date. Developer agrees to abide by all construction standards required under city Building Regulations and Inspections.

ARTICLE II. CONVEYANCE AGREEMENT

Section 2.1. Transfer of the Property. Subject to the terms and conditions of this Agreement and within thirty (30) days of the acceptance by the City of the site and building plan(s) and issuance of the building permit, the City agrees to convey the Property at closing. The purchase price for the Property shall be One Dollar (\$1.00) and other good and valuable consideration as stated herein.

Section 2.2. Deed. The conveyance of title shall be by Quit-Claim deed in which the City shall convey to Developer all the right, title and interest held by the City in the Property and not by Warranty Deed. City makes no warranties as to the merchantability of title. Developer agrees to record the Quit-Claim deed contemporaneously with delivery of the deed.

Section 2.3. Events of Closing.

(a) Each Party shall execute, acknowledge, and deliver, after the closing, such further assurances, instruments and documents as the other may reasonable request in order to fulfill the intent of the Purchase Agreement and the transactions contemplated hereby.

(b) If Developer desires a Title Commitment be issued prior to closing, Developer shall pay the costs of any title commitment and for premiums on any owner's policy of title insurance, and any title endorsements to any such policy, issued by the Title Company that the Developer elects to obtain on the Property. All outstanding real estate taxes, and all other public or governmental charges and public or private assessments against the Property which are or may be payable on an annual basis (including liens or encumbrances for sewer, water, drainage or other public improvements whether completed or commences on or prior to the Effective Date or subsequent thereto), shall be paid by Developer. All other costs of closing shall be borne by the Developer including, without limitation, any applicable state, county and municipal transfer taxes, closing costs and recording fees charged by the Title Company.

(c) **BY CLOSING ON THE PROPERTY, THE DEVELOPER ACKNOWLEDGES THAT THE DEVELOPER HAS HAD ADEQUATE OPPORTUNITY TO INSPECT, REVIEW AND CONSIDER ALL MATTERS AFFECTING THE USE, OWNERSHIP AND DEVELOPMENT OF THE PROPERTY AND THAT THE CONVEYANCE OF SAME BY THE CITY IS TO BE MADE ON AN "AS IS/WHERE IS" BASIS AND WITHOUT RECOURSE TO THE CITY. THE CONVEYANCE OF THE PROPERTY SHALL BE WITHOUT REPRESENTATION OR WARRANTY OF ANY KIND OR NATURE WHATSOEVER, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION: (i) ANY IMPLIED WARRANTY OR MERCHANTABILITY, FITNESS OR HABITABILITY, GOOD OR FAIR CONDITION OR REPAIR OR GOOD AND WORKMANLIKE CONSTRUCTION AND (ii) ANY WARRANTIES OR REPRESENTATIONS WITH RESPECT TO SITE CONDITIONS AS OF THE EFFECTIVE DATE AND OF THE CLOSING AND CONVEYANCE OF THE PROPERTY OR POTENTIAL LIABILITIES UNDER OR WITH RESPECT TO ANY FEDERAL, STATE OR LOCAL ENVIRONMENTAL LAW OR REGULATION, ALL OF WHICH WARRANTIES ARE EXPRESSLY DISCLAIMED BY THE CITY AND EACH OF WHICH DISCLAIMERS IS HEREBY AGREED TO AND ACCEPTED BY THE DEVELOPER.**

Section 2.4. Real Estate Brokers. The City and Developer hereby state and warrant to each other that neither has dealt with any real estate broker, agent or salespersons in connection with this

transaction and the sale of the Property. To the full extent permitted by law, the City and Developer each agree to indemnify and hold the other harmless against any claims for real estate commissions or consultant fees claiming representation of such party in this transaction. Such obligations to indemnify and hold harmless shall include, without limitation, all costs and attorneys' fees relating to litigation and other proceedings.

ARTICLE III BREACH

Section 3.1. Breach and Compliance; Right to Cure; Remedies Not Exclusive. In the event of substantial non-compliance with any of the terms of this Agreement, written notice of same may be delivered to the Developer by the City, and, if the Developer shall not have corrected such substantial non-compliance within Forty-five (45) days after receipt of such notice the City may institute such proceedings as may be necessary or desirable in the City's sole opinion to cure and remedy such default including, without limitation, the remedy of specific performance. If Developer fails to correct any such substantial non-compliance as herein provided it shall forfeit the deposit. None of the foregoing remedies shall be exclusive or any other remedy otherwise available to the City at law or in equity and any and all such remedies may be exercised by the City individually, sequentially, collectively, or in the alternative, all at the City's sole discretion.

ARTICLE IV MISCELLANEOUS PROVISIONS

Section 4.1. No Assignment. Neither Party shall be permitted to sell, assign or otherwise transfer its interest in the Agreement in whole or in part to any other individual or entity.

Section 4.2. Term of Agreement. This Agreement shall continue in force until the date of the issuance of the last Certificate of Occupancy for any Building(s) on the Property. The rights and privileges granted to and the duties and obligations imposed on the Developer by this Agreement shall apply only to the Property.

Section 4.3. Notices. Whenever notice or other communication is called for in this Agreement to be given or is otherwise given, such notice shall be in writing addressed to the addressees at the address set forth below, and transmitted by first class mail:

City:	City of Moberly Attention: Tom Sanders	Moberly, Missouri 65270
-------	---	-------------------------

Developer:	Robert J. O'Loughlin PO Box 546	Moberly, Missouri 65270
------------	------------------------------------	-------------------------

Section 4.4. Choice of Law; Venue; Waiver of Objections. This Agreement shall be governed by and construed in accordance with the laws of the State of Missouri. The Parties agree that any action at law, suit in equity, or other judicial proceeding arising out of this Agreement shall be instituted only in the Circuit Court of Randolph County, Missouri and waive any objection based upon venue or forum non conveniens or otherwise.

Section 4.5. Entire Agreement; Amendments; No Waiver by Prior Actions. The Parties agree that this Agreement constitutes the entire agreement between them and no other agreements or representations have been made by the Parties. This Agreement shall only be amended in writing and effective when signed by the duly authorized agents of the Parties. The failure of any Party to insist in any one or more cases upon the strict performance of any term, covenant or condition shall not constitute a waiver or relinquishment for the future of any such term, covenant or condition.

Section 4.6. No Waiver of Sovereign Immunity; Public Liability Strictly Limited. Nothing in this Agreement shall be construed or deemed to constitute a waiver of the City's Sovereign Immunity. The Parties agree that in no event shall the City, or any of its officials, officers, agents, attorneys, employees, or representatives have any liability in damages or any other monetary liability to the Developer or any lessee, sublessee, assign, heir or personal representative of the Developer in respect of any suit, claim, or cause of action arising out of this Agreement.

Section 4.7. Deposit Refund. Upon issuance of an Occupancy Permit for the completed residence the City agrees to account for and refund any portion of the deposit not expended during the project.

Section 4.8. Execution in Counterparts. Each person executing this Agreement warrants and represents that he or she has authority to do so on behalf of the entity he or she represents. This Agreement may be executed in two or more counterparts, and all counterparts so executed shall for all purposes constitute one and same instrument, binding on the Parties hereto.

IN WITNESS WHEREOF, the Parties have executed this Agreement as of the Effective Date.

CITY OF MOBERLY

By: _____
Brian Crane, City Manager

ATTEST:

City Clerk

DEVELOPER

By: _____
Robert J. O'Loughlin

ACKNOWLEDGEMENTS

STATE OF MISSOURI)
)SS
 COUNTY OF RANDOLPH)

On this ____ day of _____, 2021, before me appeared Brian Crane, to me personally known, who being by me first duly sworn, did say that he is the City Manager of the City of Moberly, Missouri, and that said instrument was signed on behalf of said City by authority of its City Council and said City Manager acknowledged said instrument to be the free act and deed of said City.

IN TESTIMONY THEREOF, I have hereunto set my hand and affixed my official seal in the County and State aforesaid, the day and year first above written.

 Notary Public

My commission expires:

Seal:

STATE OF MISSOURI)
)SS
 COUNTY OF RANDOLPH)

On this ____ day of _____, 2021, before me appeared Jimmy O'Loughlin, to me personally known, who being by me first sworn, did say that he is the Manager/Member of Budingen Group LLC, and that said instrument was signed on behalf of said LLC by authority of the LLC and he acknowledged said instrument to be the free act and deed of said LLC.

IN TESTIMONY THEREOF, I have hereunto set my hand and affixed my official seal in the County and State aforesaid, the day and year first above written.

 Notary Public

My commission expires:

Seal:

COOPERATIVE AGREEMENT FOR INFILL DEVELOPMENT

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B. The City is willing to convey the Property to the Developer pursuant to the terms of this Agreement in exchange for the Developer's promise to expend the Developer's funds to construct a residence on the Property, all in accordance with the terms of this Agreement and building plans submitted to the City.

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Section 1.1. Conveyance of the Property. Subject to the terms and conditions of this Agreement, the City agrees to convey vacant infill property zoned for residential use in exchange for Developer's agreement to construct a residence in conformance with building plans submitted and approved by the City.

Section 1.2. The Property. The Property shall mean the generally vacant and unimproved lots numbered as 511 Johnson Street and further depicted and legally described as All of Lots Seven (7) and Eight (8) in Block One (1) of the Original Town of Moberly, Randolph County, Missouri.

Section 1.3. Construction. The Developer shall deposit \$1,000.00 (the "deposit") within thirty (30) days of the Effective Date. The Developer shall pay for all permitting fees and other standard construction costs which costs will be deducted from the deposit. Developer shall submit building plans and make application for a building permit within thirty (90) days of the Effective Date. Developer agrees to initiate construction within thirty (30) days of receipt of the building permit. Developer agrees to complete construction of the residence within eighteen (18) months of the Effective Date. Developer agrees to abide by all construction standards required under city Building Regulations and Inspections.

ARTICLE II. CONVEYANCE AGREEMENT

Section 2.1. Transfer of the Property. Subject to the terms and conditions of this Agreement and within thirty (30) days of the acceptance by the City of the site and building plan(s) and issuance of the building permit, the City agrees to convey the Property at closing. The purchase price for the Property shall be One Dollar (\$1.00) and other good and valuable consideration as stated herein.

Section 2.2. Deed. The conveyance of title shall be by Quit-Claim deed in which the City shall convey to Developer all the right, title and interest held by the City in the Property and not by Warranty Deed. City makes no warranties as to the merchantability of title. Developer agrees to record the Quit-Claim deed contemporaneously with delivery of the deed.

Section 2.3. Events of Closing.

(a) Each Party shall execute, acknowledge, and deliver, after the closing, such further assurances, instruments and documents as the other may reasonable request in order to fulfill the intent of the Purchase Agreement and the transactions contemplated hereby.

(b) If Developer desires a Title Commitment be issued prior to closing, Developer shall pay the costs of any title commitment and for premiums on any owner's policy of title insurance, and any title endorsements to any such policy, issued by the Title Company that the Developer elects to obtain on the Property. All outstanding real estate taxes, and all other public or governmental charges and public or private assessments against the Property which are or may be payable on an annual basis (including liens or encumbrances for sewer, water, drainage or other public improvements whether completed or commences on or prior to the Effective Date or subsequent thereto), shall be paid by Developer. All other costs of closing shall be borne by the Developer including, without limitation, any applicable state, county and municipal transfer taxes, closing costs and recording fees charged by the Title Company.

(c) **BY CLOSING ON THE PROPERTY, THE DEVELOPER ACKNOWLEDGES THAT THE DEVELOPER HAS HAD ADEQUATE OPPORTUNITY TO INSPECT, REVIEW AND CONSIDER ALL MATTERS AFFECTING THE USE, OWNERSHIP AND DEVELOPMENT OF THE PROPERTY AND THAT THE CONVEYANCE OF SAME BY THE CITY IS TO BE MADE ON AN "AS IS/WHERE IS" BASIS AND WITHOUT RECOURSE TO THE CITY. THE CONVEYANCE OF THE PROPERTY SHALL BE WITHOUT REPRESENTATION OR WARRANTY OF ANY KIND OR NATURE WHATSOEVER, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION: (i) ANY IMPLIED WARRANTY OR MERCHANTABILITY, FITNESS OR HABITABILITY, GOOD OR FAIR CONDITION OR REPAIR OR GOOD AND WORKMANLIKE CONSTRUCTION AND (ii) ANY WARRANTIES OR REPRESENTATIONS WITH RESPECT TO SITE CONDITIONS AS OF THE EFFECTIVE DATE AND OF THE CLOSING AND CONVEYANCE OF THE PROPERTY OR POTENTIAL LIABILITIES UNDER OR WITH RESPECT TO ANY FEDERAL, STATE OR LOCAL ENVIRONMENTAL LAW OR REGULATION, ALL OF WHICH WARRANTIES ARE EXPRESSLY DISCLAIMED BY THE CITY AND EACH OF WHICH DISCLAIMERS IS HEREBY AGREED TO AND ACCEPTED BY THE DEVELOPER.**

Section 2.4. Real Estate Brokers. The City and Developer hereby state and warrant to each other that neither has dealt with any real estate broker, agent or salespersons in connection with this

transaction and the sale of the Property. To the full extent permitted by law, the City and Developer each agree to indemnify and hold the other harmless against any claims for real estate commissions or consultant fees claiming representation of such party in this transaction. Such obligations to indemnify and hold harmless shall include, without limitation, all costs and attorneys' fees relating to litigation and other proceedings.

ARTICLE III BREACH

Section 3.1. Breach and Compliance; Right to Cure; Remedies Not Exclusive. In the event of substantial non-compliance with any of the terms of this Agreement, written notice of same may be delivered to the Developer by the City, and, if the Developer shall not have corrected such substantial non-compliance within Forty-five (45) days after receipt of such notice the City may institute such proceedings as may be necessary or desirable in the City's sole opinion to cure and remedy such default including, without limitation, the remedy of specific performance. If Developer fails to correct any such substantial non-compliance as herein provided it shall forfeit the deposit. None of the foregoing remedies shall be exclusive or any other remedy otherwise available to the City at law or in equity and any and all such remedies may be exercised by the City individually, sequentially, collectively, or in the alternative, all at the City's sole discretion.

ARTICLE IV MISCELLANEOUS PROVISIONS

Section 4.1. No Assignment. Neither Party shall be permitted to sell, assign or otherwise transfer its interest in the Agreement in whole or in part to any other individual or entity.

Section 4.2. Term of Agreement. This Agreement shall continue in force until the date of the issuance of the last Certificate of Occupancy for any Building(s) on the Property. The rights and privileges granted to and the duties and obligations imposed on the Developer by this Agreement shall apply only to the Property.

Section 4.3. Notices. Whenever notice or other communication is called for in this Agreement to be given or is otherwise given, such notice shall be in writing addressed to the addressees at the address set forth below, and transmitted by first class mail:

City:	City of Moberly Attention: Tom Sanders	Moberly, Missouri 65270
-------	---	-------------------------

Developer:	Robert J. O'Loughlin PO Box 546	Moberly, Missouri 65270
------------	------------------------------------	-------------------------

Section 4.4. Choice of Law; Venue; Waiver of Objections. This Agreement shall be governed by and construed in accordance with the laws of the State of Missouri. The Parties agree that any action at law, suit in equity, or other judicial proceeding arising out of this Agreement shall be instituted only in the Circuit Court of Randolph County, Missouri and waive any objection based upon venue or forum non conveniens or otherwise.

Section 4.5. Entire Agreement; Amendments; No Waiver by Prior Actions. The Parties agree that this Agreement constitutes the entire agreement between them and no other agreements or representations have been made by the Parties. This Agreement shall only be amended in writing and effective when signed by the duly authorized agents of the Parties. The failure of any Party to insist in any one or more cases upon the strict performance of any term, covenant or condition shall not constitute a waiver or relinquishment for the future of any such term, covenant or condition.

Section 4.6. No Waiver of Sovereign Immunity; Public Liability Strictly Limited. Nothing in this Agreement shall be construed or deemed to constitute a waiver of the City's Sovereign Immunity. The Parties agree that in no event shall the City, or any of its officials, officers, agents, attorneys, employees, or representatives have any liability in damages or any other monetary liability to the Developer or any lessee, sublessee, assign, heir or personal representative of the Developer in respect of any suit, claim, or cause of action arising out of this Agreement.

Section 4.7. Deposit Refund. Upon issuance of an Occupancy Permit for the completed residence the City agrees to account for and refund any portion of the deposit not expended during the project.

Section 4.8. Execution in Counterparts. Each person executing this Agreement warrants and represents that he or she has authority to do so on behalf of the entity he or she represents. This Agreement may be executed in two or more counterparts, and all counterparts so executed shall for all purposes constitute one and same instrument, binding on the Parties hereto.

IN WITNESS WHEREOF, the Parties have executed this Agreement as of the Effective Date.

CITY OF MOBERLY

By: _____
Brian Crane, City Manager

ATTEST:

City Clerk

DEVELOPER

By: _____
Robert J. O'Loughlin

ACKNOWLEDGEMENTS

STATE OF MISSOURI)
)SS
 COUNTY OF RANDOLPH)

On this ____ day of _____, 2021, before me appeared Brian Crane, to me personally known, who being by me first duly sworn, did say that he is the City Manager of the City of Moberly, Missouri, and that said instrument was signed on behalf of said City by authority of its City Council and said City Manager acknowledged said instrument to be the free act and deed of said City.

IN TESTIMONY THEREOF, I have hereunto set my hand and affixed my official seal in the County and State aforesaid, the day and year first above written.

 Notary Public

My commission expires:

Seal:

STATE OF MISSOURI)
)SS
 COUNTY OF RANDOLPH)

On this ____ day of _____, 2021, before me appeared Robert J. O'Loughlin, to me personally known, who being by me first sworn, did say that he is the Manager/Member of Budingen Group LLC, and that said instrument was signed on behalf of said LLC by authority of the LLC and he acknowledged said instrument to be the free act and deed of said LLC.

IN TESTIMONY THEREOF, I have hereunto set my hand and affixed my official seal in the County and State aforesaid, the day and year first above written.

 Notary Public

My commission expires:

Seal:

COOPERATIVE AGREEMENT FOR INFILL DEVELOPMENT

THIS COOPERATIVE AGREEMENT FOR INFILL DEVELOPMENT (this "Agreement") is made and entered into as of this _____ day of _____, 2021 (the "Effective Date") by and between THE CITY OF MOBERLY, a city of the third class and a Missouri municipality having a principal office at 101 West Reed Street, Moberly, Missouri, 65270 (the "City") and Budingen Group LLC, a Missouri Limited Liability Company, having a business office at PO Box 546, Moberly, Missouri, 65270 (the "Developer").

RECITALS

A. The Developer wishes to acquire and redevelop Property which is currently vacant and underutilized and which activities by the Developer the City recognizes will facilitate the City's economic development goals and improve property values in the area where the Property is located.

B. The City is willing to convey the Property to the Developer pursuant to the terms of this Agreement in exchange for the Developer's promise to expend the Developer's funds to construct a residence on the Property, all in accordance with the terms of this Agreement and building plans submitted to the City.

AGREEMENT

NOW, THEREFORE, in consideration of the above premises and the mutual promises and covenants set forth in this Agreement, the City and Developer each hereby agrees as follows:

ARTICLE I. THE PROPERTY AND CONSTRUCTION

Section 1.1. Conveyance of the Property. Subject to the terms and conditions of this Agreement, the City agrees to convey vacant infill property zoned for residential use in exchange for Developer's agreement to construct a residence in conformance with building plans submitted and approved by the City.

Section 1.2. The Property. The Property shall mean the generally vacant and unimproved lots numbered as 540 West End Place and further depicted and legally described as All of Lot Ten (10) in Block Two (2) of Trimble's Addition to Moberly, Randolph County, Missouri.

Section 1.3. Construction. The Developer shall deposit \$1,000.00 (the "deposit") within thirty (30) days of the Effective Date. The Developer shall pay for all permitting fees and other standard construction costs which costs will be deducted from the deposit. Developer shall submit building plans and make application for a building permit within thirty (90) days of the Effective Date. Developer agrees to initiate construction within thirty (30) days of receipt of the building permit. Developer agrees to complete construction of the residence within eighteen (18) months of the Effective Date. Developer agrees to abide by all construction standards required under city Building Regulations and Inspections.

ARTICLE II. CONVEYANCE AGREEMENT

Section 2.1. Transfer of the Property. Subject to the terms and conditions of this Agreement and within thirty (30) days of the acceptance by the City of the site and building plan(s) and issuance of the building permit, the City agrees to convey the Property at closing. The purchase price for the Property shall be One Dollar (\$1.00) and other good and valuable consideration as stated herein.

Section 2.2. Deed. The conveyance of title shall be by Quit-Claim deed in which the City shall convey to Developer all the right, title and interest held by the City in the Property and not by Warranty Deed. City makes no warranties as to the merchantability of title. Developer agrees to record the Quit-Claim deed contemporaneously with delivery of the deed.

Section 2.3. Events of Closing.

(a) Each Party shall execute, acknowledge, and deliver, after the closing, such further assurances, instruments and documents as the other may reasonable request in order to fulfill the intent of the Purchase Agreement and the transactions contemplated hereby.

(b) If Developer desires a Title Commitment be issued prior to closing, Developer shall pay the costs of any title commitment and for premiums on any owner's policy of title insurance, and any title endorsements to any such policy, issued by the Title Company that the Developer elects to obtain on the Property. All outstanding real estate taxes, and all other public or governmental charges and public or private assessments against the Property which are or may be payable on an annual basis (including liens or encumbrances for sewer, water, drainage or other public improvements whether completed or commences on or prior to the Effective Date or subsequent thereto), shall be paid by Developer. All other costs of closing shall be borne by the Developer including, without limitation, any applicable state, county and municipal transfer taxes, closing costs and recording fees charged by the Title Company.

(c) **BY CLOSING ON THE PROPERTY, THE DEVELOPER ACKNOWLEDGES THAT THE DEVELOPER HAS HAD ADEQUATE OPPORTUNITY TO INSPECT, REVIEW AND CONSIDER ALL MATTERS AFFECTING THE USE, OWNERSHIP AND DEVELOPMENT OF THE PROPERTY AND THAT THE CONVEYANCE OF SAME BY THE CITY IS TO BE MADE ON AN "AS IS/WHERE IS" BASIS AND WITHOUT RECOURSE TO THE CITY. THE CONVEYANCE OF THE PROPERTY SHALL BE WITHOUT REPRESENTATION OR WARRANTY OF ANY KIND OR NATURE WHATSOEVER, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION: (i) ANY IMPLIED WARRANTY OR MERCHANTABILITY, FITNESS OR HABITABILITY, GOOD OR FAIR CONDITION OR REPAIR OR GOOD AND WORKMANLIKE CONSTRUCTION AND (ii) ANY WARRANTIES OR REPRESENTATIONS WITH RESPECT TO SITE CONDITIONS AS OF THE EFFECTIVE DATE AND OF THE CLOSING AND CONVEYANCE OF THE PROPERTY OR POTENTIAL LIABILITIES UNDER OR WITH RESPECT TO ANY FEDERAL, STATE OR LOCAL ENVIRONMENTAL LAW OR REGULATION, ALL OF WHICH WARRANTIES ARE EXPRESSLY DISCLAIMED BY THE CITY AND EACH OF WHICH DISCLAIMERS IS HEREBY AGREED TO AND ACCEPTED BY THE DEVELOPER.**

Section 2.4. Real Estate Brokers. The City and Developer hereby state and warrant to each other that neither has dealt with any real estate broker, agent or salespersons in connection with this

transaction and the sale of the Property. To the full extent permitted by law, the City and Developer each agree to indemnify and hold the other harmless against any claims for real estate commissions or consultant fees claiming representation of such party in this transaction. Such obligations to indemnify and hold harmless shall include, without limitation, all costs and attorneys' fees relating to litigation and other proceedings.

ARTICLE III BREACH

Section 3.1. Breach and Compliance; Right to Cure; Remedies Not Exclusive. In the event of substantial non-compliance with any of the terms of this Agreement, written notice of same may be delivered to the Developer by the City, and, if the Developer shall not have corrected such substantial non-compliance within Forty-five (45) days after receipt of such notice the City may institute such proceedings as may be necessary or desirable in the City's sole opinion to cure and remedy such default including, without limitation, the remedy of specific performance. If Developer fails to correct any such substantial non-compliance as herein provided it shall forfeit the deposit. None of the foregoing remedies shall be exclusive or any other remedy otherwise available to the City at law or in equity and any and all such remedies may be exercised by the City individually, sequentially, collectively, or in the alternative, all at the City's sole discretion.

ARTICLE IV MISCELLANEOUS PROVISIONS

Section 4.1. No Assignment. Neither Party shall be permitted to sell, assign or otherwise transfer its interest in the Agreement in whole or in part to any other individual or entity.

Section 4.2. Term of Agreement. This Agreement shall continue in force until the date of the issuance of the last Certificate of Occupancy for any Building(s) on the Property. The rights and privileges granted to and the duties and obligations imposed on the Developer by this Agreement shall apply only to the Property.

Section 4.3. Notices. Whenever notice or other communication is called for in this Agreement to be given or is otherwise given, such notice shall be in writing addressed to the addressees at the address set forth below, and transmitted by first class mail:

City:	City of Moberly Attention: Tom Sanders	Moberly, Missouri 65270
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Developer:	Robert J. O'Loughlin PO Box 546	Moberly, Missouri 65270
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Section 4.4. Choice of Law; Venue; Waiver of Objections. This Agreement shall be governed by and construed in accordance with the laws of the State of Missouri. The Parties agree that any action at law, suit in equity, or other judicial proceeding arising out of this Agreement shall be instituted only in the Circuit Court of Randolph County, Missouri and waive any objection based upon venue or forum non conveniens or otherwise.

Section 4.5. Entire Agreement; Amendments; No Waiver by Prior Actions. The Parties agree that this Agreement constitutes the entire agreement between them and no other agreements or representations have been made by the Parties. This Agreement shall only be amended in writing and effective when signed by the duly authorized agents of the Parties. The failure of any Party to insist in any one or more cases upon the strict performance of any term, covenant or condition shall not constitute a waiver or relinquishment for the future of any such term, covenant or condition.

Section 4.6. No Waiver of Sovereign Immunity; Public Liability Strictly Limited. Nothing in this Agreement shall be construed or deemed to constitute a waiver of the City's Sovereign Immunity. The Parties agree that in no event shall the City, or any of its officials, officers, agents, attorneys, employees, or representatives have any liability in damages or any other monetary liability to the Developer or any lessee, sublessee, assign, heir or personal representative of the Developer in respect of any suit, claim, or cause of action arising out of this Agreement.

Section 4.7. Deposit Refund. Upon issuance of an Occupancy Permit for the completed residence the City agrees to account for and refund any portion of the deposit not expended during the project.

Section 4.8. Execution in Counterparts. Each person executing this Agreement warrants and represents that he or she has authority to do so on behalf of the entity he or she represents. This Agreement may be executed in two or more counterparts, and all counterparts so executed shall for all purposes constitute one and same instrument, binding on the Parties hereto.

IN WITNESS WHEREOF, the Parties have executed this Agreement as of the Effective Date.

CITY OF MOBERLY

By: _____
Brian Crane, City Manager

ATTEST:

City Clerk

DEVELOPER

By: _____
Robert J. O'Loughlin

ACKNOWLEDGEMENTS

STATE OF MISSOURI)
)SS
 COUNTY OF RANDOLPH)

On this ____ day of _____, 2021, before me appeared Brian Crane, to me personally known, who being by me first duly sworn, did say that he is the City Manager of the City of Moberly, Missouri, and that said instrument was signed on behalf of said City by authority of its City Council and said City Manager acknowledged said instrument to be the free act and deed of said City.

IN TESTIMONY THEREOF, I have hereunto set my hand and affixed my official seal in the County and State aforesaid, the day and year first above written.

 Notary Public

My commission expires:

Seal:

STATE OF MISSOURI)
)SS
 COUNTY OF RANDOLPH)

On this ____ day of _____, 2021, before me appeared Jimmy O'Loughlin, to me personally known, who being by me first sworn, did say that he is the Manager/Member of Budingen Group LLC, and that said instrument was signed on behalf of said LLC by authority of the LLC and he acknowledged said instrument to be the free act and deed of said LLC.

IN TESTIMONY THEREOF, I have hereunto set my hand and affixed my official seal in the County and State aforesaid, the day and year first above written.

 Notary Public

My commission expires:

Seal:

COOPERATIVE AGREEMENT FOR INFILL DEVELOPMENT

THIS COOPERATIVE AGREEMENT FOR INFILL DEVELOPMENT (this "Agreement") is made and entered into as of this _____ day of _____, 2021 (the "Effective Date") by and between THE CITY OF MOBERLY, a city of the third class and a Missouri municipality having a principal office at 101 West Reed Street, Moberly, Missouri, 65270 (the "City") and Budingen Group LLC, a Missouri Limited Liability Company, having a business office at PO Box 546, Moberly, Missouri, 65270 (the "Developer").

RECITALS

A. The Developer wishes to acquire and redevelop Property which is currently vacant and underutilized and which activities by the Developer the City recognizes will facilitate the City's economic development goals and improve property values in the area where the Property is located.

B. The City is willing to convey the Property to the Developer pursuant to the terms of this Agreement in exchange for the Developer's promise to expend the Developer's funds to construct a residence on the Property, all in accordance with the terms of this Agreement and building plans submitted to the City.

AGREEMENT

NOW, THEREFORE, in consideration of the above premises and the mutual promises and covenants set forth in this Agreement, the City and Developer each hereby agrees as follows:

ARTICLE I. THE PROPERTY AND CONSTRUCTION

Section 1.1. Conveyance of the Property. Subject to the terms and conditions of this Agreement, the City agrees to convey vacant infill property zoned for residential use in exchange for Developer's agreement to construct a residence in conformance with building plans submitted and approved by the City.

Section 1.2. The Property. The Property shall mean the generally vacant and unimproved lots numbered as 505 Johnson Street and further depicted and legally described as All of the North fifteen (15) feet of Lot Three (3) and all of Lot Four (4) in Block One (1) of the Original Town of Moberly, Randolph County, Missouri.

Section 1.3. Construction. The Developer shall deposit \$1,000.00 (the "deposit") within thirty (30) days of the Effective Date. The Developer shall pay for all permitting fees and other standard construction costs which costs will be deducted from the deposit. Developer shall submit building plans and make application for a building permit within thirty (90) days of the Effective Date. Developer agrees to initiate construction within thirty (30) days of receipt of the building permit. Developer agrees to complete construction of the residence within eighteen (18) months of the Effective Date. Developer agrees to abide by all construction standards required under city Building Regulations and Inspections.

ARTICLE II. CONVEYANCE AGREEMENT

Section 2.1. Transfer of the Property. Subject to the terms and conditions of this Agreement and within thirty (30) days of the acceptance by the City of the site and building plan(s) and issuance of the building permit, the City agrees to convey the Property at closing. The purchase price for the Property shall be One Dollar (\$1.00) and other good and valuable consideration as stated herein.

Section 2.2. Deed. The conveyance of title shall be by Quit-Claim deed in which the City shall convey to Developer all the right, title and interest held by the City in the Property and not by Warranty Deed. City makes no warranties as to the merchantability of title. Developer agrees to record the Quit-Claim deed contemporaneously with delivery of the deed.

Section 2.3. Events of Closing.

(a) Each Party shall execute, acknowledge, and deliver, after the closing, such further assurances, instruments and documents as the other may reasonable request in order to fulfill the intent of the Purchase Agreement and the transactions contemplated hereby.

(b) If Developer desires a Title Commitment be issued prior to closing, Developer shall pay the costs of any title commitment and for premiums on any owner's policy of title insurance, and any title endorsements to any such policy, issued by the Title Company that the Developer elects to obtain on the Property. All outstanding real estate taxes, and all other public or governmental charges and public or private assessments against the Property which are or may be payable on an annual basis (including liens or encumbrances for sewer, water, drainage or other public improvements whether completed or commences on or prior to the Effective Date or subsequent thereto), shall be paid by Developer. All other costs of closing shall be borne by the Developer including, without limitation, any applicable state, county and municipal transfer taxes, closing costs and recording fees charged by the Title Company.

(c) **BY CLOSING ON THE PROPERTY, THE DEVELOPER ACKNOWLEDGES THAT THE DEVELOPER HAS HAD ADEQUATE OPPORTUNITY TO INSPECT, REVIEW AND CONSIDER ALL MATTERS AFFECTING THE USE, OWNERSHIP AND DEVELOPMENT OF THE PROPERTY AND THAT THE CONVEYANCE OF SAME BY THE CITY IS TO BE MADE ON AN "AS IS/WHERE IS" BASIS AND WITHOUT RECOURSE TO THE CITY. THE CONVEYANCE OF THE PROPERTY SHALL BE WITHOUT REPRESENTATION OR WARRANTY OF ANY KIND OR NATURE WHATSOEVER, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION: (i) ANY IMPLIED WARRANTY OR MERCHANTABILITY, FITNESS OR HABITABILITY, GOOD OR FAIR CONDITION OR REPAIR OR GOOD AND WORKMANLIKE CONSTRUCTION AND (ii) ANY WARRANTIES OR REPRESENTATIONS WITH RESPECT TO SITE CONDITIONS AS OF THE EFFECTIVE DATE AND OF THE CLOSING AND CONVEYANCE OF THE PROPERTY OR POTENTIAL LIABILITIES UNDER OR WITH RESPECT TO ANY FEDERAL, STATE OR LOCAL ENVIRONMENTAL LAW OR REGULATION, ALL OF WHICH WARRANTIES ARE EXPRESSLY DISCLAIMED BY THE CITY AND EACH OF WHICH DISCLAIMERS IS HEREBY AGREED TO AND ACCEPTED BY THE DEVELOPER.**

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ARTICLE IV MISCELLANEOUS PROVISIONS

Section 4.1. No Assignment. Neither Party shall be permitted to sell, assign or otherwise transfer its interest in the Agreement in whole or in part to any other individual or entity.

Section 4.2. Term of Agreement. This Agreement shall continue in force until the date of the issuance of the last Certificate of Occupancy for any Building(s) on the Property. The rights and privileges granted to and the duties and obligations imposed on the Developer by this Agreement shall apply only to the Property.

Section 4.3. Notices. Whenever notice or other communication is called for in this Agreement to be given or is otherwise given, such notice shall be in writing addressed to the addressees at the address set forth below, and transmitted by first class mail:

City:	City of Moberly Attention: Tom Sanders	Moberly, Missouri 65270
Developer:	Robert J. O'Loughlin PO Box 546	Moberly, Missouri 65270

Section 4.4. Choice of Law; Venue; Waiver of Objections. This Agreement shall be governed by and construed in accordance with the laws of the State of Missouri. The Parties agree that any action at law, suit in equity, or other judicial proceeding arising out of this Agreement shall be instituted only in the Circuit Court of Randolph County, Missouri and waive any objection based upon venue or forum non conveniens or otherwise.

Section 4.5. Entire Agreement; Amendments; No Waiver by Prior Actions. The Parties agree that this Agreement constitutes the entire agreement between them and no other agreements or representations have been made by the Parties. This Agreement shall only be amended in writing and effective when signed by the duly authorized agents of the Parties. The failure of any Party to insist in any one or more cases upon the strict performance of any term, covenant or condition shall not constitute a waiver or relinquishment for the future of any such term, covenant or condition.

Section 4.6. No Waiver of Sovereign Immunity; Public Liability Strictly Limited. Nothing in this Agreement shall be construed or deemed to constitute a waiver of the City's Sovereign Immunity. The Parties agree that in no event shall the City, or any of its officials, officers, agents, attorneys, employees, or representatives have any liability in damages or any other monetary liability to the Developer or any lessee, sublessee, assign, heir or personal representative of the Developer in respect of any suit, claim, or cause of action arising out of this Agreement.

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IN WITNESS WHEREOF, the Parties have executed this Agreement as of the Effective Date.

CITY OF MOBERLY

By: _____
Brian Crane, City Manager

ATTEST:

City Clerk

DEVELOPER

By: _____
Robert J. O'Loughlin

ACKNOWLEDGEMENTS

STATE OF MISSOURI)
)SS
 COUNTY OF RANDOLPH)

On this ____ day of _____, 2021, before me appeared Brian Crane, to me personally known, who being by me first duly sworn, did say that he is the City Manager of the City of Moberly, Missouri, and that said instrument was signed on behalf of said City by authority of its City Council and said City Manager acknowledged said instrument to be the free act and deed of said City.

IN TESTIMONY THEREOF, I have hereunto set my hand and affixed my official seal in the County and State aforesaid, the day and year first above written.

 Notary Public

My commission expires:

Seal:

STATE OF MISSOURI)
)SS
 COUNTY OF RANDOLPH)

On this ____ day of _____, 2021, before me appeared Robert J. O'Loughlin, to me personally known, who being by me first sworn, did say that he is the Manager/Member of Budingen Group LLC, and that said instrument was signed on behalf of said LLC by authority of the LLC and he acknowledged said instrument to be the free act and deed of said LLC.

IN TESTIMONY THEREOF, I have hereunto set my hand and affixed my official seal in the County and State aforesaid, the day and year first above written.

 Notary Public

My commission expires:

Seal:

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RECITALS

A. The Developer wishes to acquire and redevelop Property which is currently vacant and underutilized and which activities by the Developer the City recognizes will facilitate the City's economic development goals and improve property values in the area where the Property is located.

B. The City is willing to convey the Property to the Developer pursuant to the terms of this Agreement in exchange for the Developer's promise to expend the Developer's funds to construct a residence on the Property, all in accordance with the terms of this Agreement and building plans submitted to the City.

AGREEMENT

NOW, THEREFORE, in consideration of the above premises and the mutual promises and covenants set forth in this Agreement, the City and Developer each hereby agrees as follows:

ARTICLE I. THE PROPERTY AND CONSTRUCTION

Section 1.1. Conveyance of the Property. Subject to the terms and conditions of this Agreement, the City agrees to convey vacant infill property zoned for residential use in exchange for Developer's agreement to construct a residence in conformance with building plans submitted and approved by the City.

Section 1.2. The Property. The Property shall mean the generally vacant and unimproved lots numbered as 831 Bond Street and further depicted and legally described as All of Lot Eighteen (18) in Block Three (3) of Barrow's Addition to Moberly, Randolph County, Missouri.

Section 1.3. Construction. The Developer shall deposit \$1,000.00 (the "deposit") within thirty (30) days of the Effective Date. The Developer shall pay for all permitting fees and other standard construction costs which costs will be deducted from the deposit. Developer shall submit building plans and make application for a building permit within thirty (90) days of the Effective Date. Developer agrees to initiate construction within thirty (30) days of receipt of the building permit. Developer agrees to complete construction of the residence within eighteen (18) months of the Effective Date. Developer agrees to abide by all construction standards required under city Building Regulations and Inspections.

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Section 2.1. Transfer of the Property. Subject to the terms and conditions of this Agreement and within thirty (30) days of the acceptance by the City of the site and building plan(s) and issuance of the building permit, the City agrees to convey the Property at closing. The purchase price for the Property shall be One Dollar (\$1.00) and other good and valuable consideration as stated herein.

Section 2.2. Deed. The conveyance of title shall be by Quit-Claim deed in which the City shall convey to Developer all the right, title and interest held by the City in the Property and not by Warranty Deed. City makes no warranties as to the merchantability of title. Developer agrees to record the Quit-Claim deed contemporaneously with delivery of the deed.

Section 2.3. Events of Closing.

(a) Each Party shall execute, acknowledge, and deliver, after the closing, such further assurances, instruments and documents as the other may reasonable request in order to fulfill the intent of the Purchase Agreement and the transactions contemplated hereby.

(b) If Developer desires a Title Commitment be issued prior to closing, Developer shall pay the costs of any title commitment and for premiums on any owner's policy of title insurance, and any title endorsements to any such policy, issued by the Title Company that the Developer elects to obtain on the Property. All outstanding real estate taxes, and all other public or governmental charges and public or private assessments against the Property which are or may be payable on an annual basis (including liens or encumbrances for sewer, water, drainage or other public improvements whether completed or commences on or prior to the Effective Date or subsequent thereto), shall be paid by Developer. All other costs of closing shall be borne by the Developer including, without limitation, any applicable state, county and municipal transfer taxes, closing costs and recording fees charged by the Title Company.

(c) **BY CLOSING ON THE PROPERTY, THE DEVELOPER ACKNOWLEDGES THAT THE DEVELOPER HAS HAD ADEQUATE OPPORTUNITY TO INSPECT, REVIEW AND CONSIDER ALL MATTERS AFFECTING THE USE, OWNERSHIP AND DEVELOPMENT OF THE PROPERTY AND THAT THE CONVEYANCE OF SAME BY THE CITY IS TO BE MADE ON AN "AS IS/WHERE IS" BASIS AND WITHOUT RECOURSE TO THE CITY. THE CONVEYANCE OF THE PROPERTY SHALL BE WITHOUT REPRESENTATION OR WARRANTY OF ANY KIND OR NATURE WHATSOEVER, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION: (i) ANY IMPLIED WARRANTY OR MERCHANTABILITY, FITNESS OR HABITABILITY, GOOD OR FAIR CONDITION OR REPAIR OR GOOD AND WORKMANLIKE CONSTRUCTION AND (ii) ANY WARRANTIES OR REPRESENTATIONS WITH RESPECT TO SITE CONDITIONS AS OF THE EFFECTIVE DATE AND OF THE CLOSING AND CONVEYANCE OF THE PROPERTY OR POTENTIAL LIABILITIES UNDER OR WITH RESPECT TO ANY FEDERAL, STATE OR LOCAL ENVIRONMENTAL LAW OR REGULATION, ALL OF WHICH WARRANTIES ARE EXPRESSLY DISCLAIMED BY THE CITY AND EACH OF WHICH DISCLAIMERS IS HEREBY AGREED TO AND ACCEPTED BY THE DEVELOPER.**

Section 2.4. Real Estate Brokers. The City and Developer hereby state and warrant to each other that neither has dealt with any real estate broker, agent or salespersons in connection with this

transaction and the sale of the Property. To the full extent permitted by law, the City and Developer each agree to indemnify and hold the other harmless against any claims for real estate commissions or consultant fees claiming representation of such party in this transaction. Such obligations to indemnify and hold harmless shall include, without limitation, all costs and attorneys' fees relating to litigation and other proceedings.

ARTICLE III BREACH

Section 3.1. Breach and Compliance; Right to Cure; Remedies Not Exclusive. In the event of substantial non-compliance with any of the terms of this Agreement, written notice of same may be delivered to the Developer by the City, and, if the Developer shall not have corrected such substantial non-compliance within Forty-five (45) days after receipt of such notice the City may institute such proceedings as may be necessary or desirable in the City's sole opinion to cure and remedy such default including, without limitation, the remedy of specific performance. If Developer fails to correct any such substantial non-compliance as herein provided it shall forfeit the deposit. None of the foregoing remedies shall be exclusive or any other remedy otherwise available to the City at law or in equity and any and all such remedies may be exercised by the City individually, sequentially, collectively, or in the alternative, all at the City's sole discretion.

ARTICLE IV MISCELLANEOUS PROVISIONS

Section 4.1. No Assignment. Neither Party shall be permitted to sell, assign or otherwise transfer its interest in the Agreement in whole or in part to any other individual or entity.

Section 4.2. Term of Agreement. This Agreement shall continue in force until the date of the issuance of the last Certificate of Occupancy for any Building(s) on the Property. The rights and privileges granted to and the duties and obligations imposed on the Developer by this Agreement shall apply only to the Property.

Section 4.3. Notices. Whenever notice or other communication is called for in this Agreement to be given or is otherwise given, such notice shall be in writing addressed to the addressees at the address set forth below, and transmitted by first class mail:

City:	City of Moberly Attention: Tom Sanders	Moberly, Missouri 65270
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Developer:	Robert J. O'Loughlin PO Box 546	Moberly, Missouri 65270
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Section 4.4. Choice of Law; Venue; Waiver of Objections. This Agreement shall be governed by and construed in accordance with the laws of the State of Missouri. The Parties agree that any action at law, suit in equity, or other judicial proceeding arising out of this Agreement shall be instituted only in the Circuit Court of Randolph County, Missouri and waive any objection based upon venue or forum non conveniens or otherwise.

Section 4.5. Entire Agreement; Amendments; No Waiver by Prior Actions. The Parties agree that this Agreement constitutes the entire agreement between them and no other agreements or representations have been made by the Parties. This Agreement shall only be amended in writing and effective when signed by the duly authorized agents of the Parties. The failure of any Party to insist in any one or more cases upon the strict performance of any term, covenant or condition shall not constitute a waiver or relinquishment for the future of any such term, covenant or condition.

Section 4.6. No Waiver of Sovereign Immunity; Public Liability Strictly Limited. Nothing in this Agreement shall be construed or deemed to constitute a waiver of the City's Sovereign Immunity. The Parties agree that in no event shall the City, or any of its officials, officers, agents, attorneys, employees, or representatives have any liability in damages or any other monetary liability to the Developer or any lessee, sublessee, assign, heir or personal representative of the Developer in respect of any suit, claim, or cause of action arising out of this Agreement.

Section 4.7. Deposit Refund. Upon issuance of an Occupancy Permit for the completed residence the City agrees to account for and refund any portion of the deposit not expended during the project.

Section 4.8. Execution in Counterparts. Each person executing this Agreement warrants and represents that he or she has authority to do so on behalf of the entity he or she represents. This Agreement may be executed in two or more counterparts, and all counterparts so executed shall for all purposes constitute one and same instrument, binding on the Parties hereto.

IN WITNESS WHEREOF, the Parties have executed this Agreement as of the Effective Date.

CITY OF MOBERLY

By: _____
Brian Crane, City Manager

ATTEST:

City Clerk

DEVELOPER

By: _____
Robert J. O'Loughlin

ACKNOWLEDGEMENTS

STATE OF MISSOURI)
)SS
 COUNTY OF RANDOLPH)

On this ____ day of _____, 2021, before me appeared Brian Crane, to me personally known, who being by me first duly sworn, did say that he is the City Manager of the City of Moberly, Missouri, and that said instrument was signed on behalf of said City by authority of its City Council and said City Manager acknowledged said instrument to be the free act and deed of said City.

IN TESTIMONY THEREOF, I have hereunto set my hand and affixed my official seal in the County and State aforesaid, the day and year first above written.

 Notary Public

My commission expires:

Seal:

STATE OF MISSOURI)
)SS
 COUNTY OF RANDOLPH)

On this ____ day of _____, 2021, before me appeared Robert J. O'Loughlin, to me personally known, who being by me first sworn, did say that he is the Manager/Member of Budingen Group LLC, and that said instrument was signed on behalf of said LLC by authority of the LLC and he acknowledged said instrument to be the free act and deed of said LLC.

IN TESTIMONY THEREOF, I have hereunto set my hand and affixed my official seal in the County and State aforesaid, the day and year first above written.

 Notary Public

My commission expires:

Seal: