CITY OF BILLINGS

CITY OF BILLINGS VISION STATEMENT:

"THE MAGIC CITY: A DIVERSE, WELCOMING COMMUNITY WHERE PEOPLE PROSPER AND BUSINESS SUCCEEDS."

AGENDA

COUNCIL CHAMBERS **August 12, 2019** **5:30 P.M.**

CALL TO ORDER: Mayor Cole

PLEDGE OF ALLEGIANCE: Mayor Cole

INVOCATION: Councilmember Friedel

ROLL CALL: Councilmembers present on roll call were: ☐ Cromley, ☐ Yakawich, ☐ Neese, ☐ Ewalt, ☐ Joy, ☐ Friedel, ☐ Gibbs, ☐ Ronning, ☐ Clark, ☐ Brown

MINUTES:

- July 8, 2019
- July 22, 2019

COURTESIES:

- Life-Saving Awards - Police Officers (Kathy Brown, Ryland Nelson and Justin Bickford)

PROCLAMATIONS:

ADMINISTRATOR REPORTS - CHRIS KUKULSKI

PUBLIC COMMENT on "NON-PUBLIC HEARING" Agenda Items: 1 and 2 ONLY. Speaker sign-in required. (Comments are limited to three (3) minutes. Please sign the roster at the cart located at the back of the Council chambers or at the podium. Comments on items listed as public hearing items will be heard ONLY during the designated public hearing time for each respective item. For items not on this agenda, public comment will be taken at the end of the agenda.)

1. **CONSENT AGENDA** -- Separations:

A. **Bid Awards:**

1. **Self-Contained Breathing Apparatus Ensembles.** (Opened 7/23/19) Recommend Big Sky Fire Equipment; $123,367.07.

2. **W.O. 19-19: Phase 3 Partial Landfill Closure.** (Opened 7/30/19) Recommend KLE Construction, LLC; $749,383.

3. **W.O. 19-37: Water Treatment Facility High Service Pump Station H2-2 Pump Replacement.** (Opened 7/23/19) Recommend Ace Electric, Inc.; $1,190,000.

4. **W.O. 19-47: Centennial Park Irrigation Pump.** (Opened 7/9/19) Recommend delay of award until 8/26/19.

B. **Airport Restaurant/Lounge Concessions Agreement** with Air Host Billings, Inc.

C. **Gross Maximum Price (GMP) Agreement** with Sletten Construction Company for Airport Terminal Concourse Expansion, Phase 1; $3,359,848.

D. **Development Agreement** with Christopher Birkle for construction improvements at 510 Pemberton Lane.

E. **Six LIFEPAK 15 v4 Monitor/Defib AED Units** for the Fire Department from Stryker/Physio Control; $185,905.78.

F. **Professional Engineering Services Contract** for W.O. 19-42: West End Water Treatment Plant Project; Burns & McDonnell; $883,732.

G. **Professional Engineering Services Contract** for W.O. 18-32: Landfill Slope Stabilization; Pioneer Technical Services, Inc.; $110,006.

H. **Right-of-Way Easement Transfer** of Washington Street easement with Yellowstone County.

I. **Tax Increment Financing Assistance** from the South Billings Boulevard Urban Renewal District (SBBURD) to Orchard Elementary School for playground and outdoor education material improvements; $45,675.80.

J. **2020 Draft Unified Planning Work Program (UPWP).**

K. **Resolution** prescribing the form and terms of Sidewalk Improvement District bonds (W.O. 18-02: Sidewalk Improvement District Project).

L. **Final Plat** of Lake Hills Subdivision, 25th Filing, Amended.

M. **Bills for the Weeks of:**

1. July 1, 2019

2. July 8, 2019

3. July 15, 2019

REGULAR AGENDA:

2. **RESOLUTION** adopting Yellowstone County Multi-Hazard Mitigation Plan 2019 Update. Staff recommends approval. (Action: approval or disapproval of staff recommendation.)

3. **PUBLIC HEARING AND RESOLUTION** approving and adopting budget amendments for FY2019. Staff recommends approval. (Action: approval or disapproval of staff recommendation.)

4. **PUBLIC HEARING AND RESOLUTION** vacating a portion of Bonita Circle between Sierra Grande Boulevard and El Rancho Drive. Staff recommends approval. (Action: approval or disapproval of staff recommendation.)

PUBLIC COMMENT on "NON-AGENDA ITEMS". Speaker Sign-in required. (*Restricted to ONLY items not on this printed agenda. Comments are limited to 3 minutes. Please sign the roster at the cart located at the back of the Council chambers or at the podium.)*

COUNCIL INITIATIVES:

ADJOURN:

Council Chambers are readily accessible to individuals with physical disabilities.

For more information or to make requests for special arrangements, please contact the City Clerk's Office at 657-8210 or e-mail bohlmand@billingsmt.gov, 72 hours prior to the meeting date.

Consent **1. A. 1.**

Regular City Council Meeting

Meeting Date: 08/12/2019

TITLE: Approval of Award for the Airport's Aircraft Rescue Fire Fighting Division to Purchase New Self-Contained Breathing Apparatus Ensembles

PRESENTED BY: Kevin Ploehn, Director of Aviation and Transit

Department: Airport

Presentation: No

PROBLEM/ISSUE STATEMENT

Included in the Airport's Capital Improvement Program is the purchase and replacement of twelve sets of Self-Contained Breathing Apparatus (SCBA's) Ensembles for the Aircraft Rescue Fire Fighting (ARFF) Division. The Airport is Federally regulated by National Fire Protection Association (NFPA) standards, Occupational Safety and Health Administration (OSHA) requirements, and Federal Aviation Administration (FAA) regulations; therefore, **firefighter safety is extremely important** and the Airport is required to supply the SCBA equipment, which the firefighters are mandated to wear. This SCBA equipment is worn on the back of a firefighter and provides him/her with a supply of fresh air anytime a firefighter is working in a hazardous environment. The existing equipment varies from 15–20 years old, has outlived its useful life, and needs to be replaced. The original manufacturer that provided the existing SCBA equipment is no longer in business and was purchased by another company that has discontinued equipment support. Additionally, parts are difficult to find and the repair technician has had to cannibalize units to keep others working. Additionally, the technology over the years has improved. Ultimately, safety for our Airport firefighters is a top priority when responding to an aircraft accident and this equipment is needed in order for them to successfully and safely perform their job. This purchase also includes 24 spare air cylinders and some modification work to the Airport's existing air cylinder recharging station in order to make it compatible with the new equipment.

This SCBA Equipment Replacement Project was advertised in the *Yellowstone County News* on July 5, 12, and 19, and was posted on the City and Airport's Websites. On July 23, 2019, the following bids for this equipment were received:

VENDOR	**BID**
Big Sky Fire Equipment	$123,367.07
DXP Enterprises, Inc.	Incomplete Bid Package
Estimate	$160,000.00

ALTERNATIVES ANALYZED

City Council may:

- Approve the award for the purchase of new SCBA equipment for the ARFF Division; or
- Decline the purchase of the SCBA equipment, reject all bids, delay the purchase, and provide staff direction on how to proceed.

FINANCIAL IMPACT

The total cost of this new SCBA equipment is $123,367.07. The equipment will be funded 90% ($111,030.36) with FAA Airport Improvement Program (AIP) entitlement grant funds and 10% ($12,336.71) local match funds. This project is included in the Airport's CIP and budget, and the local funds are available in the Airport's Capital Account.

RECOMMENDATION

Staff recommends that the City Council approve the bid from Big Sky Fire Equipment for the purchase of new SCBA equipment with spare air cylinders for the ARFF Division for the amount of $123,367.07.

APPROVED BY CITY ADMINISTRATOR

Consent **1. A. 2.**

Regular City Council Meeting

Meeting Date: 08/12/2019

TITLE: W.O. 19-19 -- Phase 3 Partial Landfill Closure, Bid Award

PRESENTED BY: David Mumford, Public Works Director

Department: Public Works

Presentation: No

PROBLEM/ISSUE STATEMENT

The Landfill currently has an excessive amount of space open for active landfilling operations. The lower section of Cell #3 has reached its final elevations, so that section can be covered with a permanent soil cap and closed to further operation. W.O. 19-19 includes the construction/installation of a 4-foot thick soil cover system on this 12.3 acre section. The project also includes installing permanent erosion control under the drainage ditches, lining the south run-off ditch adjacent to Cell 3, other drainage and erosion control improvements, and seeding. Bid Alternate #1 includes lining the north run-off ditch adjacent to Cell 3 and associated erosion control improvements.

The bidding for this contract was advertised July 12, 19, and 26, 2019, in *The Yellowstone County News* and on the City's website. Bids were opened July 30, 2019, and KLE Construction was the lowest responsible bidder.

ALTERNATIVES ANALYZED

The Council may:

- Award a contract to the low bidder, KLE Construction, in the amount of $749,383.00; or
- Reject all bids, which will keep the amount of open landfilling space greater than what is needed, which ultimately results in greater costs to the Solid Waste Division.

FINANCIAL IMPACT

The following bids were received and evaluated.

Contractor (Bidder)	Base Bid Amount	Alternate #1 Bid Amount	TOTAL BID AMOUNT
Neumann Construction LLC	$ 656,266.00	$ 114,460.00	$ 770,726.00
First Mark Construction	$ 737,656.00	$ 102,600.00	$ 840,256.00
KLE Construction LLC	$ 667,083.00	$ 82,300.00	$ 749,383.00
COP Construction LLC	$1,009,378.00	$ 111,480.00	$ 1,120,858.00
Youderian Construction Inc.	$ 703,956.25	$ 152,992.00	$ 856,948.25
Donnes Inc.	$ 943,284.00	$ 112,000.00	$ 1,055,284.00

The project is being funded by Solid Waste funds as approved in the FY 2020 CIP. There are adequate funds available for the contract.

RECOMMENDATION

Staff recommends Council award a construction contract to KLE Construction LLC for the Base Bid and Bid Alternate No. 1 of W.O. 19-19 -- Phase 3 Partial Landfill Closure, in the amount totaling $749,383.00.

APPROVED BY CITY ADMINISTRATOR

Consent **1. A. 3.**

Regular City Council Meeting

Meeting Date: 08/12/2019

TITLE: Bid Award - W.O. 19-37: Water Treatment Facility High Service Pump Station H2-2 Pump Replacement

PRESENTED BY: David Mumford, Public Works Director

Department: Public Works

Presentation: No

PROBLEM/ISSUE STATEMENT

W.O. 19-37 H2-2 Pump Replacement is a project to remove and replace a pump and motor, discharge piping and valves, and variable frequency drive within the high service pump station at the Water Treatment Facility. The project was advertised June 28th, July 5th, 12th, and 19th. Bids were opened on July 23rd. Three bids were received and Ace Electric, Inc. submitted the lowest responsible bid.

ALTERNATIVES ANALYZED

The Council may:

- Award W.O. 19-37: H2-2 Pump Replacement to Ace Electric, Inc., in the amount of $1,190,000;or
- Do not award a contract and reject all bids. If the contract is not awarded, the existing pump will remain in service and will result in having less reliability and redundancy in the pump station than is desired or recommended.

FINANCIAL IMPACT

The following bids were received and evaluated:

Contractor	Bid Schedule 1
Ace Electric, Inc.	$1,190,000
Williams Plumbing & Heating Inc.	$1,237,500
Western Municipal Construction	$1,305,249

The funding source is water funds budgeted in FY 20.

RECOMMENDATION

Staff recommends the City Council award a contract for W.O. 19-37 Water Treatment Facility High Service Pump Station H2-2 Pump Replacement to Ace Electric, Inc. in the amount of $1,190,000.

APPROVED BY CITY ADMINISTRATOR

Consent **1. A. 4.**

Regular City Council Meeting

Meeting Date: 08/12/2019
TITLE: W.O. 19-47 Centennial Park Irrigation Pump
PRESENTED BY: David Mumford, Public Works Director
Department: Public Works
Presentation: No

PROBLEM/ISSUE STATEMENT

W.O. 19-47: Centennial Park Irrigation Pump, is planned to install an irrigation pump at the Arnold Drain and the piping from the drain to Centennial Park for the irrigation system. The project was advertised on June 21st, June 28th, and July 5th, in the *Yellowstone County News* and on the City's website. Bids were opened on July 9th, 2019, and 3 bids were received. State law requires City Council to consider bids at the next Council meeting after opening bids. Staff needs more time to evaluate the bids to determine if this pump system is the best option for providing irrigation water to the park. An agenda item will be included on the August 26, 2019 council meeting with a bid recommendation. Staff is recommending that city council delay action on this item until that meeting.

ALTERNATIVES ANALYZED

City Council may:

- Delay action on the bid until the August 26, 2019 council meeting.

FINANCIAL IMPACT

The financial impact will be presented in the August 26, 2019 agenda memo.

RECOMMENDATION

Staff recommends that the City Council delay action on the bid award for W.O. 19-47.

APPROVED BY CITY ADMINISTRATOR

Consent **1. B.**

Regular City Council Meeting

Meeting Date: 08/12/2019

TITLE: Airport Restaurant/Lounge Concession Operations RFP Selection and Agreement Approval

PRESENTED BY: Kevin Ploehn, Director of Aviation and Transit

Department: Airport

Presentation: No

PROBLEM/ISSUE STATEMENT

The Airport's Restaurant/Lounge Concession Agreement with Air Host Billings, Inc. expired, and a Request for Proposals (RFP) was put out for interested parties to operate the existing Restaurant Concession for approximately two years during the construction of the Terminal Concourse Expansion. This RFP solicited for a concessionaire to continue to operate the existing pre-security dining and the concourse deli operation, basically ending when the newly constructed space is ready to use in 2021. The Airport will advertise an RFP again, approximately a year from now, for a concessionaire to operate in the newly completed concession facilities constructed during the Terminal Concourse Expansion.

This RFP required the successful concessionaire to build a new concourse deli on the B Concourse by October 1, 2019, so that the existing deli can be demolished and construction for the new Concourse Expansion can begin in the old deli area. The RFP was distributed to ten companies, of which five participated in the Airport's pre-proposal walk through. The Airport ultimately received four responses. The four RFP responses were distributed to the selection committee, which was comprised of one City Council member (Brown), one Airport Commissioner (Farmer), the Chair of the Chamber of Commerce Air Service Committee (Van Etta), and three Airport staff (Ploehn, Ketterling, Herold). After a discussion about each of the proposals, Air Host was selected to continue to operate the Restaurant/Lounge Concession for approximately two years beginning September 1, 2019. The strengths of their proposal included the financial commitment, the new deli concept, their local pricing concept, and their understanding of the upcoming construction project. Proposals were received from:

Concessionaire:	**Headquarter Location:**
Air Host, Inc.	Memphis, TN
Zootist Hospitality, LLC	Billings, MT
Hungry's Restaurant, Inc. DBA Sky Dine	Sioux Falls, SD
Tailwind MC, LLC	Wilmington, NC

ALTERNATIVES ANALYZED

City Council may:

- Approve the Restaurant/Lounge Concession Agreement with Air Host Billings, Inc.; or
- Disapprove the Restaurant/Lounge Concession Agreement with Air Host Billings, Inc. and advise staff on how to proceed.

FINANCIAL IMPACT

The Air Host proposal offered to pay the City the greater of 12% of Gross Sales or a Minimum Annual Guarantee (MAG) of $225,000. The next closest MAG was $160,000. Currently, the City receives approximately $150,000 to $160,000 in annual revenues from this Concession, so the MAG at $225,000 is between $60,000 and $65,000 more annually than the current earnings for the City.

RECOMMENDATION

Staff recommends that the City Council approve the Agreement with Air Host Billings, Inc. to operate the Airport's Restaurant/Lounge Concession during the construction of the new west concourse and great room areas of the Terminal Concourse Expansion.

APPROVED BY CITY ADMINISTRATOR

Consent **1. C.**

Regular City Council Meeting

Meeting Date: 08/12/2019

TITLE: Approval of Guaranteed Maximum Price from Sletten Construction Company for the Phase One Construction for the Airport's Terminal Concourse Expansion

PRESENTED BY: Kevin Ploehn, Director of Aviation and Transit

Department: Airport

Presentation: No

PROBLEM/ISSUE STATEMENT

On February 12, 2018, City Council approved a Resolution for an Alternative Project Delivery Contract for the Airport Terminal Concourse Expansion project. Staff subsequently advertised a Request for Qualifications (RFQ) for a general contractor to submit their qualifications followed by a Request for Proposals (RFP) from the general contractors who were pre-qualified, all for the opportunity to be selected to become the General Contractor/Construction Manager (GC/CM) for the Terminal Concourse Expansion project. After going through this process, on August 27, 2018, City Council approved a contract with Sletten Construction Company to be the GC/CM for the design work and for the Council to approve a Guaranteed Maximum Price (GMP) for the Terminal Construction work at a later date. The advantage of utilizing the GC/CM process on this complicated project is the ability to have the general contractor involved in the design process, project planning, construction phasing, and project cost pricing. This alternative project delivery method should result in less time for construction, fewer construction surprises, subsequently resulting in fewer change orders and hopefully a shorter disruption time to the Terminal operations.

Phase One of the Terminal Concourse Expansion project has been designed and Sletten has been soliciting pricing for the Phase One work from its sub-contractors. Currently, the Phase One work is scheduled to begin on September 23, 2019, and includes the construction of a new west end stair tower for the Essential Air Service provider (Cape Air) to continue their ground loading operations. Additionally, a number of support columns will be constructed in the center of the building, running from the basement to the roof level, in order to support the new roof that will extend over the new screening area during the Phase Two portion of the project. And finally, there will be some remodel work in the basement of the B Concourse to house a temporary Holdroom, which will be needed when all the airlines, other than Cape Air, are operating out of the B Concourse during the construction of the new west concourse. Sletten, as the GC/CM, has determined a GMP of $3,359,848 for this Phase One work. Phase One is the only portion of the project that has been fully designed and subsequently, the only portion of the project that Sletten can provide a GMP for at this time.

ALTERNATIVES ANALYZED

City Council may:

- Approve to accept the GMP from Sletten Construction Company for Phase One work for the Airport Terminal Concourse Expansion; or
- Disapprove the GMP from Sletten Construction Company and advise staff on how to proceed.

FINANCIAL IMPACT

Sletten Construction Company has provided a GMP for $3,359,848 for the Phase One work. This will be funded with local capital funds, which are available in the Airport's capital account. Additionally, the Airport could receive Federal Airport Improvement Program (AIP) funds for this work through the AIP Discretionary funding pot. These funds are competitively allocated by the Federal Aviation Administration (FAA) based on availability and need. The Airport does not expect to hear whether any of these Discretionary Grant funds will be available for the Phase One work until late August. Subsequently, the Airport is prepared to cover the full construction cost of Phase One with its available capital dollars.

RECOMMENDATION

Staff recommends that the City Council approve the GMP of $3,359,848 from Sletten Construction Company for the Phase One work for the Airport's Terminal Concourse Expansion project.

APPROVED BY CITY ADMINISTRATOR

Consent **1. D.**

Regular City Council Meeting

Meeting Date: 08/12/2019

TITLE: Development Agreement with Christopher Birkle at 510 Pemberton Lane

PRESENTED BY: David Mumford, Public Works Director

Department: Public Works

Presentation: No

PROBLEM/ISSUE STATEMENT

The property owner, Christopher Birkle, at 510 Pemberton Lane is desiring to construct improvements on the property in order to have a storage area. These improvements include fencing and graveling of the property. In the future, the property owner desires to upgrade the property to possibly include mixed-use buildings. As a condition of the initial development, the city staff decided it would be beneficial to enter into a development agreement with the property owner identifying off-site improvements and the timing of the construction of the improvements. The property owner has submitted the attached Development Agreement for consideration by the Council. The Development Agreement includes necessary future improvements to Pemberton Lane and Lake Elmo Drive.

ALTERNATIVES ANALYZED

City Council may:

- Approve the development agreement with the property owner; or
- Disapprove the development agreement. If the agreement is not approved, the responsibility for infrastructure improvements will not be clearly identified as the property owner's responsibility.

FINANCIAL IMPACT

There is no financial impact to the City with acceptance of this development agreement. If the agreement is not accepted, the City could be responsible for a portion of the improvements if they were made under an SID as our policy only assesses for the addressed side of a property.

RECOMMENDATION

Staff recommends that the City Council approve the development agreement with Christopher Birkle.

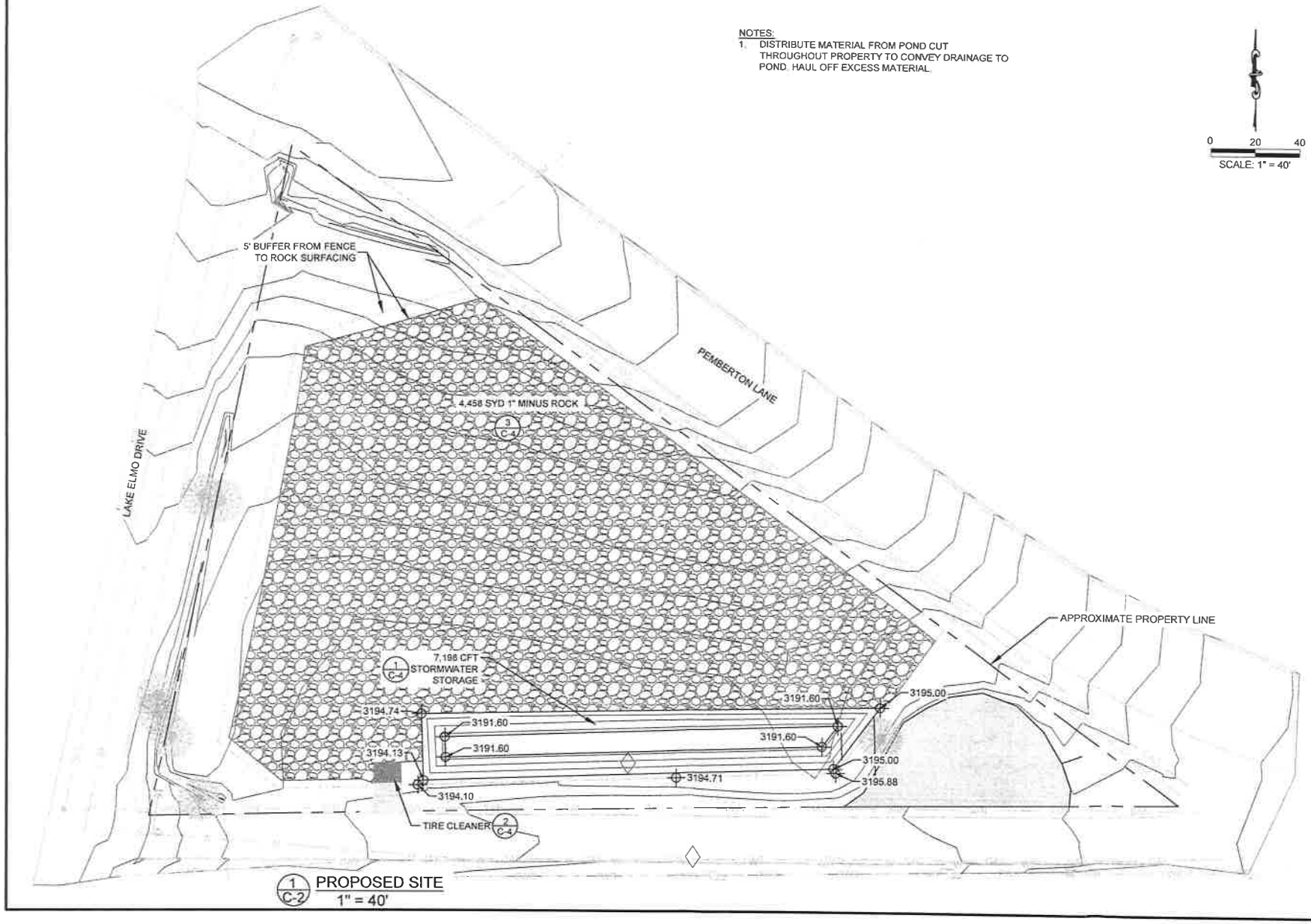
APPROVED BY CITY ADMINISTRATOR

Attachments

Exhibit

Development Agreement

NOTES:
1. DISTRIBUTE MATERIAL FROM POND CUT THROUGHOUT PROPERTY TO CONVEY DRAINAGE TO POND. HAUL OFF EXCESS MATERIAL.



1 C-2 PROPOSED SITE
1" = 40'

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(406) 396 - 4111

	DSGN	DATE	CKD
	SMT	2/19/19	TJK
	REV	DATE	CKD

JOB # 2018-269

HOLLING RANCH TRACT A
STORMWATER MITIGATION

PROPOSED SITE

C

SHEET NO. 3

DEVELOPMENT AGREEMENT

THIS DEVELOPMENT AGREEMENT is made this _____ day of June, 2019, by and between **Christopher P. Birkle**, whose address for the purpose of this agreement is 510 Pemberton Lane, Billings, MT, 59105, hereinafter referred to as "Landowner" and The **CITY OF BILLINGS**, Montana, a municipal corporation, c/o City Hall, Billings, Montana, 59101, hereinafter referred to as "City."

WHEREAS, Landowner is the owner of certain real property situated in Yellowstone County, Montana, more particularly described as follows:

1.59 acres, Holling Ranch Subd., S15 T01 N, R26 E, Lot A,
Yellowstone County, MT, hereinafter referred to as "Property."

WHEREAS, Landowner has indicated his wish to change the use of Property from its current native state to a for-profit open storage area, hereinafter referred to as "Business." As requested by City, Landowner has submitted a Stormwater Management Plan for Property, hereinafter referred to as "Plan," *attached hereto as Exhibit A*.

WHEREAS, City has approved Plan, contingent only upon execution of this Development Agreement between City and Landowner.

WHEREAS, Landowner has indicated to City that Business is designed to be a catalyst for future development of Property beyond Plan. More specifically, Landowner currently envisions mixed-use facilities, similar to the newly built apartments with retail on ground level, located at Shiloh and Central Avenue. The retail portion would cater to residential needs from residents on Property and surrounding areas, including from possible future residential developments North of Pemberton Lane.

WHEREAS, Considering Property's proximity to Lake Elmo State Park, Landowner and City mutually agree that determining the ultimate development of Property should be done in the spirit of cooperation and good faith between the parties.

City and Landowner agree that the foregoing terms and recitals are material to this Development Agreement, and that each party has relied on the material nature of such terms and recitals in entering into this Development Agreement.

NOW THEREFORE, in consideration of the mutual promises and covenants contained herein, the parties do hereby agree as follows:

A. ***Term of Agreement.*** This Development Agreement shall be effective for a period of Ten (10) years from the date it is fully executed, unless extended or shortened by mutual agreement of Landowner and City.

B. ***Timeline.*** On an annual basis starting from the date this Agreement is fully executed, Landowner and City shall, orally or in writing, discuss plans for the ultimate development

of Property. Except for items 1 and 2 below, Landowner shall have the right to develop Property in such order and at such rate and at such times as Landowner deems appropriate within the exercise of his subjective business judgment. The future installation of off-site improvements shall be completed as follows:

1) ***Landscaping.*** When Property is further developed beyond Plan, but no later than two (2) years from the date this Agreement is fully executed, landscaping shall be installed along the frontage of Property in accordance with City regulations in affect at the time of development.

2) ***Curb, Gutter, Sidewalks.*** When Property is further developed beyond Plan, but no later than four (4) years from the date this Agreement is fully executed, curb and gutter, necessary street widening and a 5-foot boulevard sidewalk meeting City standards shall be constructed along the frontage of Property. Landowner shall be responsible for associated costs; City may share cost of construction of a multi-use path along Pemberton Lane.

3) ***Sanitary Sewer.*** When Property is further developed beyond Plan and a connection to the City sanitary sewer system is desired or required, Landowner shall be responsible for associated costs of connection, including payment of system development fees and connection permit fees at the time of sewer connection.

4) ***Water.*** When Property is further developed beyond Plan and a connection to the Billings Heights Water District system is desired or required, Landowner shall be responsible for associated costs of connection, including payment of system development fees and connection permit fees at the time of water connection.

5) ***Storm Water.*** City acknowledges that Plan is in full compliance with all federal, state, and local statutes, regulations and requirements of the City of Billings Stormwater Management Manual (2018). Any future development shall have to be in compliance with the City of Billings Stormwater Management Manual in affect at the time of development.

C. ***Other Public Improvements.*** For any other improvement not specifically listed in this Agreement, Landowner shall execute a Waiver waiving the right to protest the creation of one or more Special Improvement District(s).

D. ***Vested Rights of Landowner.*** During the term of this Development Agreement, in developing Property consistent with Plan, Landowner, his successors and assigns, is assured, and City agrees, that the development rights, obligations, terms and conditions specified in this Agreement, are fully vested in Landowner, his successors and assigns, and may not be changed or modified by any legislative act by City, except as may be expressly permitted by, and in accordance with, the terms and conditions of this Agreement,

including the Exhibits hereto, or as expressly consented thereto by Landowner, his successors and assigns.

E. ***Compliance.*** Nothing herein shall be deemed to exempt the Property from compliance with any current or future City laws, rules, regulations, or policies that are applicable to the development, redevelopment, or use of Property.

F. ***Covenant of Good Faith and Fair Dealing.*** Each Party shall use its best efforts and take and employ all necessary actions to ensure that the rights secured by the other Party can be enjoyed and no Party shall take any action that will deprive the other Parties of the enjoyment of the rights secured through this Agreement.

G. ***Minor Modifications.*** Minor modifications from the approved permits or the Exhibits attached hereto or to future developments may be approved by City staff and shall be entitled to administratively approve minor amendments to this Agreement without an amendment to this Agreement.

H. ***Runs with Land.*** The covenants, agreements, and all statements in this Agreement and in the incorporated and attached Waiver shall run with the land for the term of the Agreement and shall be binding on the heirs, personal representatives, successors and assigns of the respective parties.

I. ***Severability.*** If any term or provision of this Agreement, or the application of any term or provision of this Agreement to a particular situation, is held by a court of competent jurisdiction to be invalid, void or unenforceable, the remaining terms and provisions of this Agreement, or the application of this Agreement to other situations, shall continue in full force and effect unless amended or modified by mutual consent of the parties.

J. ***Attorney's Fees.*** In the event it becomes necessary for either party to this Agreement to retain an attorney to enforce any of the terms or conditions of this Agreement, then the prevailing party shall be entitled to reasonable attorney fees and costs, including those fees and costs of in-house counsel and fees and costs if Landowner is self-represented, self-representation fees to be based on eighty dollars ($80) per hour.

K. ***Termination.*** Landowner only shall have the right to terminate this Agreement, without liability, by giving written notice to City within two (2) years after this Agreement is fully executed.

L. ***Effect of Termination*****.** If Landowner elects to terminate this Agreement, Landowner shall install curb, gutter, and necessary street widening and a 5-foot boulevard sidewalk meeting City standards along the frontage of Property prior to one (1) year from the date of Landowner's written termination. Landowner shall be responsible for associated costs.

M. ***Amendments and Modifications.*** Any amendments or modifications of this Agreement shall be made in writing and executed in the same manner as this original document and shall after execution become a part of this Agreement.

N. ***Transfer of Ownership*****.** In the event of transfer of ownership of all or any portion of the Property, the benefits accruing to, and the obligations placed upon the Landowner under this Agreement shall run with the land and title to Property and inure to the benefit of, and be binding upon each person having any right or title or other legal interest in Property with respect to that party's interest in Property. This Agreement shall be deemed to create privity of contract and estate with and among all persons and entities acquiring any interest in the Property subsequent to the date hereof.

O. ***Governing Law.*** This Agreement shall be governed and construed in accordance with the laws of the state of Montana.

P. ***Counterparts.*** This Agreement may be executed in counterparts, with each Party sending a .pdf of its signature to the other Party via email transmission. This Agreement, when fully executed and signature pages exchanged as provided herein shall be effective as the original document.

Q. ***Entirety.*** This Agreement constitutes the entire Agreement between City and Landowner, and any other Agreements between the parties, unless reduced to writing and executed by the parties shall be null and void.

IN WITNESS WHEREOF, the parties have executed this Agreement as of the day and year first above written.

"Landowner" By: _____
Christopher P. Birkle

STATE OF MONTANA)
: ss
County of Yellowstone)

On this _____ day of _____, 2019, before me, a Notary Public for the State of Montana, personally appeared _____and _____, known to me to be the persons who executed the foregoing instrument as the Landowner of 510 Pemberton Lane, Billings, Montana and acknowledged to me that he/she executed the same.

_____
Notary Public for the State of Montana
Printed Name: _____
Residing at Billings, Yellowstone County, Montana
My commission expires: _____

This agreement is hereby approved and accepted by the City of Billings, this _____ day of _____, 2019.

"CITY" CITY OF BILLINGS, MONTANA

By: _____
Mayor

Attest:_____
City Clerk

Approved as to Form:

_____
City Attorney

STATE OF MONTANA)
: ss
County of Yellowstone)

On this _____ day of _____, 2019, before me, a Notary Public for the State of Montana, personally appeared _____ and _____ _____, known to me to be the Mayor and City Clerk, respectively, of the City of Billings, Montana, whose names are subscribed to in the foregoing instrument in such capacity and acknowledged to me that they executed the same on behalf of the City of Billings, Montana.

_____
Notary Public for the State of Montana
Printed Name: _____
Residing at Billings, Yellowstone County, Montana
My commission expires: _____

WAIVER OF RIGHT TO PROTEST

FOR VALUABLE CONSIDERATION, the undersigned, Owner of the hereinafter described real property, does hereby waive the right to protest the formation of one or more Special Improvement Districts (SID) for the construction, reconstruction or maintenance of streets, curbs, gutter, concrete ribbons, sidewalks, driveways, survey monuments, street name signs, street lights, street light energy and maintenance, traffic control devices on-site and off-site inclusive as determined by an overall traffic accessibility study, specific realignments or relocation of sanitary sewer lines and water lines, valley gutters, culverts, storm sewer lines, if any, either within or without the area And other incidental improvements which the City of Billings may require.

The Waiver and Agreement shall run with the land and shall be binding upon the undersigned, its successors and assigns, and shall be recorded in the office of County Clerk and Recorder of Yellowstone County, Montana.

The real property hereinabove mentioned is more particularly described as follow to wit:

WAIVER signed and dated this _____day of _____ , 2019.

By Christopher P. Birkle
By:_____

STATE OF _____)
:ss.
County of _____)

This instrument was acknowledged before me on _____, 20__ by Christopher P. Birkle

_____
Print Name
(SEAL) Notary Public for the State of Montana
Residing in: _____
My Commission expires: ___/___/ 20___

Chr

Consent **1. E.**

Regular City Council Meeting

Meeting Date: 08/12/2019

TITLE: LIFEPAK 15 Monitor/Defib Purchase

PRESENTED BY: William Rash, Fire Chief

Department: Fire

Presentation: No

PROBLEM/ISSUE STATEMENT

The Council is being ask to approve the purchase of six LifePak 15 v4 monitor / defibrillators units at a total cost of $185,905.78 from Stryker / Physio Control, Redmond Washington to replace LifePak 12 units whose manufacturer has been discontinued. In addition, in alignment with FDA's final order 'Effective Date of Requirement for Premarket Approval for Automated External Defibrillator Systems, " accessories and disposable specific to these devices will no longer be approved for sale in the US after February 3, 2020. LifePaks are more than just defibrillators. They constantly monitor heart rates, and alert the users to sudden changes. They allow for 12-Lead EKG acquisition and interpretation and LifePak 15 models include a CPR Metronome that verbally tells the rescuers when to ventilate the patient and can transmit the information to the hospital emergency department prior to patient arrival. Physio-Control is the sole source provider of Lifepak equipment, fire personnel have been trained on Likepak equipment and will not need to be fully retrained, factory-authorized inspections and repair service provider for LifePak monitors / defibrillator units currently in service in the Fire Department.

ALTERNATIVES ANALYZED

City Council may approve or disapprove the purchase of six (6) LIFEPAK 15 v4 monitor/defib AED units using the $177,000 earmarked for that purpose.

FINANCIAL IMPACT

Program [similar to existing ERP/Equipment Replacement Program] was established to purchase items unique to public safety divisions. $177,000 has been earmarked in the program for the replacement of existing LIFEPAK 12 AED units. The quote received from Stryker / Physio Control is $185,905.78, which includes a $6,500 per unit trade-in allowance for 4 of our LIFEPAK 12 AED Units. The $8,905.78 difference will be funded out of the department's EMS supply budget.

RECOMMENDATION

Staff recommends approval of purchasing six LIFEPAK 15 v4 Monitor/Defib AED units for the Fire Department using the funds earmarked within the Public Safety Equipment Replacement fund.

APPROVED BY CITY ADMINISTRATOR

Consent **1. F.**

Regular City Council Meeting

Meeting Date: 08/12/2019

TITLE: W.O. 19-42, West End Water Treatment Plant Project

PRESENTED BY: David Mumford, Public Works Director

Department: Public Works

Presentation: No

PROBLEM/ISSUE STATEMENT

City Council is asked to award a professional engineering services agreement to Burns & McDonnell Engineering Company for all phases of the W.O. 19-42, West End Water Treatment Plant Project to include preliminary design, detailed design, bidding, construction inspection and administration, and start-up assistance. Project scoping and fees through the preliminary design phase in the amount of $883,732.00 are under current consideration. Project scoping and fees for the remaining project phases will be presented to City Council through future contract amendment proposals.

The Preliminary Design phase of this project includes all required work to evaluate, develop the preliminary design and drawings, and complete a detailed preliminary design report for a new 20 MGD water treatment plant located at the future West End Reservoir site, which is the current Knife River gravel pits on the north and south sides of Hesper Road between Shiloh Road and 48 th Street West.

Identifying and securing an alternate source of treated water for City of Billings is a priority to the Public Works Department. A west end water treatment plant most efficiently meets the City's needs for long-term drinking water service capacity and system redundancy beyond which the existing Water Treatment Plant on Belknap Avenue is able to provide. The Public Works Department is currently in negotiations with Knife River to acquire the gravel pits adjacent to Hesper Road which cover approximately 300 acres.

The project scope outlines a process to:

- review existing water quality data and recommend future water quality testing,
- identify, evaluate and select treatment processes for raw water and residuals,
- prepare preliminary capital and lifecycle cost estimates,
- conduct bench-scale testing of selected treatment processes,
- conduct necessary surveying and geotechnical work at the preferred plant site,
- conduct hydraulic analyses of the new raw water plant intake and pump station and the high service pump station, and
- prepare a preliminary design report.

A Request for Proposals for this project was publicly advertised from April 5 through May 10, 2019. One additional proposal received from HDR Engineering was also evaluated, and interviews with both firms were conducted by the project selection committee.

ALTERNATIVES ANALYZED

City Council may:

- Approve award of the engineering contract to Burns & McDonnell, or;
- Disapprove award the contract to Burns & McDonnell. If this project is not completed, the City will be unable to proceed with the evaluations and development plans needed to provide for the future drinking water capacity needs of City of Billings residents.

FINANCIAL IMPACT

The W.O. 19-42 West End Water Treatment Plant Project is in the amount of $883,732.00, and funding for this project has been approved by City Council in the Capital Improvement Plan (CIP) and budget for the Public Works Department. The project will use water funds.

RECOMMENDATION

Staff recommends that Council approve a professional engineering services contract with Burns & McDonnell in the amount of $883,732.00 for W.O. 19-42, West End Water Treatment Plant.

APPROVED BY CITY ADMINISTRATOR

Attachments

WO1942 PES Contract

Contract for Professional Architectural and Engineering Services

Project W.O. 19-42, West End Water Treatment Plant Project

In consideration of the mutual promises herein, City of Billings and Burns & McDonnell Engineering Company Inc. agree as follows. This Contract consists of:

Part I, consisting of 15 Sections of Special Provisions;

Part II, consisting of 11 Sections of General Provisions;

Appendix A consisting of 9 pages (Basic Services of Contractor);

Appendix B consisting of 1 pages (Methods and Times of Payment);

Appendix C consisting of 1 page (Additional Services of Contractor);

Appendix D consisting of 1 pages (Schedule of Professional Fees);

Appendix E consisting of 1 page (Project Schedule);

Appendix F consisting of 5 pages (Certificate(s) of Insurance); and

PART I
SPECIAL PROVISIONS

Section 1. Definitions.

In this Contract:

A. "Administrator" means the City Engineer of the Engineering Division of the Public Works Department or his designee.
B. "Billings" means the City of Billings.
C. "Contractor" means Burns & McDonnell Engineering Company Inc.

Section 2. Scope of Services.

A. The Contractor shall perform professional services in accordance with Appendix A, which is attached hereto and incorporated in this Section by reference.
B. Billings shall pay the Contractor in accordance with the Schedule of Professional Fees attached as Appendix D and incorporated herein by reference for services actually performed under this Contract.

C. Billings shall not allow any claim for services other than those described in this Section. However, the Contractor may provide, at its own expense, any other services that are consistent with this Contract.
D. The Engineer shall provide record drawings as approved by the City of Billings, to the Administrator within 30 days after the project completion date. Final payment will be withheld until the record drawings are received by the City of Billings. Requirements for submitting record drawings completed Private Contracts, Work Orders, Special Improvement Districts and Site plans involving any City of Billings infrastructure: a point file; 1 (*.asc, *.txt, comma delimited; point number, northing, easting, elevation and description) / 2 (*.csv, with headings for; point number, northing, easting, elevation and description), with northings and eastings to the nearest tenth of a foot, elevations to the nearest hundredth of a foot, representing new, updated or relocated City of Billings infrastructure features such as, but not limited to Sanitary Sewer Manholes, Storm Drain Manholes, Water Valves, Water Bends, Signals, Street Light, etc., in the coordinates of Montana State Plane, Zone 2500 using NAD83(2011), Horizontal and NAVD88 Vertical, Horizontal units and Vertical units will be International feet, one half size paper copy to scale, one full size paper copy to scale, two CD's or DVD's with PDF files being half size to scale and full size to scale and AutoCAD DWG files as-constructed / as-built, Version 2016, or equivalent.

Section 3. Time for Performance.

A. This Contract becomes effective when signed on behalf of Billings.
B. The Contractor shall commence performance of the Work described in Section 2 on receipt of written Notice to Proceed and complete that performance in accordance with the schedule set forth in Appendix E.
C. This Contract shall terminate at midnight on December 31, 2020.

Section 4. Compensation; Method of Payment.

A. Each month, or at the conclusion of each phase of the Work for which payment is due, as negotiated on a per-task basis, the Contractor shall present a bill to the Administrator describing the Work for which it seeks payment and documenting expenses and fees to the satisfaction of the Administrator. If any payment is withheld because the Contractor's performance is unsatisfactory, the Administrator must, within ten (10) days of the payment denial, notify the Contractor of the payment denial and set forth, with reasonable specificity, what was unsatisfactory and why. Billings will pay Contractor within 30 days of receiving an acceptable invoice.
B. The Contractor is not entitled to any compensation under this Contract, other than is expressly provided for in this Section.
C. As a condition of payment, the Contractor shall have paid all City taxes currently due and owing by the Contractor.

Section 5. Termination of the Contractor's Services.

The Contractor's services under Section 2 of this Part may be terminated:

A. By mutual consent of the parties.
B. For the convenience of Billings, provided that Billings notifies the Contractor in writing of its intent to terminate under this paragraph at least 10 days prior to the effective date of the termination.
C. For cause, by either party where the other party fails in any material way to perform its obligations under this Contract. Termination under this Subsection is subject to the condition that the terminating party notifies the other party of its intent to terminate, stating with reasonable specificity the grounds therefor, and the other party fails to cure the default within 30 days after receiving the notice.

Section 6. Duties Upon Termination

A. If Billings terminates the Contractor's services for convenience, Billings shall pay the Contractor for its actual costs reasonably incurred in performing before termination and Billings shall pay for services rendered prior to termination. Payment under this Subsection shall never exceed the total compensation allowable under Section 4 of this Part. All finished and unfinished documents and materials prepared by the Contractor shall become the property of Billings.
B. If the Contractor's services are terminated for cause, Billings shall pay the Contractor the reasonable value of the services satisfactorily rendered prior to termination, less any damages suffered by Billings because of the Contractor's failure to perform satisfactorily. The reasonable value of the services rendered shall never exceed ninety percent (90%) of the total compensation allowable under Section 4 of this Part. Any finished or unfinished documents or materials prepared by the Contractor under this Contract shall become the property of Billings at its option.
C. If the Contractor receives payments exceeding the amount to which it is entitled under Subsections A or B of this Section, he shall remit the excess to the Administrator within 30 days of receiving notice to do so.
D. The Contractor shall not be entitled to any compensation under this Section until the Contractor has delivered to the Administrator all documents, records, Work product, materials and equipment owned by Billings and requested by the Administrator.
E. If the Contractor's services are terminated for whatever reason the Contractor shall not claim any compensation under this Contract, other than that allowed under this Section.
F. If a final audit has not been performed before the Contractor's services are terminated, Billings may recover any payments for costs disallowed as a result of the final audit.
G. Except as provided in this Section, termination of the Contractor's services under Section 5 of this Part does not affect any other right or obligation of a party under this Contract.

Section 7. Insurance.

A. The Contractor shall maintain in good standing the insurance described in Subsection B of this Section. Before rendering any services under this Contract,

the Contractor shall furnish the Administrator with proof of insurance in accordance with Subsection B of this Section.

B. The Contractor shall provide the following insurance:

1. Workers' compensation as required by Montana law and employer's liability coverage with limits of $1,000,000 per accident.
2. Commercial general liability, including contractual and personal injury coverage's -- $1,500,000 per occurrence and $2,000,000 general aggregate.
3. Commercial automobile liability -- $1,500,000 per accident.
4. Professional liability in the amount of $1,500,000 per claim and in the aggregate.

C. Each policy of insurance required by this Section shall provide for no less than 30 days' advance notice to Billings prior to cancellation.

D. Billings SHALL be included as an additional insured on all policies except Professional Liability and Worker's Compensation Policies. In addition, all policies except Professional Liability and Worker's Compensation shall contain a waiver of subrogation against Billings, where allowed by law. Billings and Contractor release each other and waive all rights of subrogation against each other and their officers, directors, agents, or employees for damage covered by property insurance or that could be covered by property insurance if self-insured (including deductibles) during and after the completion of Contractor's services. A provision similar to this shall be incorporated into all construction contracts entered into by Billings for work related to the Work or Services, and all Billings' construction contractors shall be required to provide waivers of subrogation in favor of Billings and Contractor for damage or liability covered by any of Billings' contractor's policies of insurance and Contractor shall be added as an additional insured on those policies of insurance, in the same manner, and to the same extent, as Billings.

Section 8. Assignments.

Unless otherwise allowed by this Contract or in writing by the Administrator, any assignment by the Contractor of its interest in any part of this Contract or any delegation of duties under this Contract shall be void, and an attempt by the Contractor to assign any part of its interest or delegate duties under this Contract shall give Billings the right immediately to terminate this Contract without any liability for Work performed.

Contractor may engage temporary staffing agencies or obtain assistance from its affiliates and subsidiaries including, without limitation, Burns & McDonnell Canada Ltd., Burns & McDonnell International Inc., and Burns & McDonnell India Pvt. Ltd. ("Labor Sources") to fulfill Contractor's performance obligations under this Agreement. The parties agree that contracts, purchase orders, or similar agreements between Contractor and any Labor Sources are not subcontracts as that term is used in this Agreement, and personnel from such Labor Sources shall be billed according to the applicable rate sheet for the Scope of Work as if such personnel is a direct hire employee. Personnel from Labor Sources shall be considered agents of Contractor and able to act on behalf of Contractor within the scope of the authority granted such personnel according to job function and billing classification.

Section 9. Ownership; Publication, Reproduction and Use of Material.

A. Except as otherwise provided herein, all data, documents and materials produced by the Contractor under this Contract shall be the property of Billings, which shall retain the exclusive right to publish, disclose, distribute and otherwise use, in whole or in part, any such data, documents, or other materials. Exclusive rights shall not be attributed to portions of such materials presently in the public domain or which are not subject to copyright. Contractor shall retain rights to pre-existing proprietary property including but not limited to interactive models. The Contractor shall have the right to include photographic or artistic representations of the design and construction of the Project among the Contractor's promotional and professional materials. The Contractor's materials shall not include Billings' confidential or proprietary information regardless of whether Billings has previously advised the Contractor in writing of the specific information considered by Billings to be confidential and proprietary.
B. Equipment purchased by the Contractor with Contract funds: See Appendix A, Section 3. Scope of Work.
C. Should Billings elect to reuse or use, without Contractor's involvement Work products provided under this Contract for other than the original project and/or purpose, Billings will indemnify and hold harmless the Contractor from any and all claims, demands and causes of action of any kind or character arising as a result of reusing the documents developed under this contract. Additionally, any reuse of design drawings or specifications provided under this Contract must be limited to conceptual or preliminary use for adaptation, and the original Contractor's or subcontractor's signature, professional seals and dates removed. Such reuse of drawings and specifications, which require professional seals and dates removed, will be signed, sealed, and dated by the professional who is in direct supervisory control and responsible for adaptation.

Section 10. Notices.

Any notice required pertaining to the subject matter of this Contract shall be either sent via facsimile (FAX) or mailed by prepaid first class registered or certified mail, return receipt requested to the following addresses:

Billings: Randy Straus
City of Billings
Engineering Division
2224 Montana Avenue
Billings, Montana 59101 FAX: (406) 237-6291

Contractor: Jason Schaefer
Burns & McDonnell Engineering Company Inc.
9785 Maroon Circle, Suite 400
Centennial, CO 80112 FAX: (303) 721-0563

Notices are effective upon the earlier of receipt, proof of good transmission (facsimiles only), or 5 days after proof of proper posting.

Section 11. Contract Budget.

In connection with its performance under this Contract, the Contractor shall not make expenditures other than as provided in line items in the Contract budget.

Section 12. Force Majeure.

A. Any failure to perform by either party due to force majeure shall not be deemed a violation or breach hereof.
B. As used in this Contract, force majeure is an act or event of substantial magnitude, beyond the control of the delayed party, which delays the completion of this Contract, including without limitation:

1. Any interruption, suspension or interference resulting solely from the act of Billings or neglect of Billings not otherwise governed by the terms of this Contract.
2. Strikes or Work stoppages.
3. Any interruption, suspension or interference with the project caused by acts of God, or acts of a public enemy, wars, blockades, insurrections, riots, arrests or restraints of governments and people, civil disturbances or similar occurrences.
4. Order of court, administrative agencies or governmental officers other than Billings.

Section 13. Financial Management System.

The Contractor shall establish and maintain a financial management system that:

A. Provides accurate, current, and complete disclosure of all financial transactions relating to the Contract;
B. Maintains separate accounts by source of funds for all revenues and expenditures and identifies the source and application of funds for the Contractor's performance under this Contract, including information pertaining to subcontracts, obligations, unobligated balances, assets, liabilities, outlays and income;
C. Effectively controls and accounts for all municipal funds and Contract property;
D. Compares actual expenditures with budgeted amounts and relates financial information to performance or productivity data including unit cost information where applicable;
E. Allocates administrative costs to direct service delivery units;
F. Minimizes the time between receipt of funds from Billings and their disbursement by the Contractor;
G. Provides accounting records supported by source documentation; and
H. Provides a systematic method for the timely and appropriate resolution of audit findings and recommendations.

Section 14. Funding Requirements.

In the event that any funding source for this Contract should impose additional requirements upon Billings for the use of those funds, the Contractor agrees to abide by those additional requirements immediately upon receipt of written notice thereof from Billings.

Section 15. Subcontracts.

The Contractor may enter into subcontracts for the purchase of goods and services necessary for the performance of this Contract, provided:

A. Every subcontract shall be reduced to writing and contain a precise description of the services or goods to be provided and the nature of the consideration paid therefor.
B. Every subcontract under which the Contractor delegates the provision of services shall be subject to review and approval by the Administrator before it is executed by the Contractor.
C. Every subcontract in an amount exceeding $1,000 shall require reasonable access to business records of the subcontractor relating to the purchase of goods or services pursuant to the subcontract.

PART II
GENERAL CONTRACT PROVISIONS

Section 1. Relationship of Parties.

The Contractor shall perform its obligations hereunder as an independent Contractor of Billings. Billings may administer the Contract and monitor the Contractor's compliance with its obligations hereunder. Billings shall not supervise or direct the Contractor other than a provided in this Section.

Section 2. Nondiscrimination.

A. The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, national origin, ancestry, age, sex, or marital status or who is a "qualified individual with a disability" (as that phrase is defined in the Americans With Disabilities Act of 1990). The Contractor will take affirmative action to see that applicants are employed and that employees are treated during employment without regard to their race, color, religion, or mental or physical impairment/disability. Such action shall include, without limitation, employment, upgrading, demotion or transfer, recruitment or recruiting advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training including apprenticeship. The Contractor agrees to post, in conspicuous places available to employees and applicants for employment, notices setting forth the provisions of this non-discrimination clause.
B. The Contractor shall state, in all solicitations or advertisements for employees to Work on Contract jobs, that all qualified applicants will receive equal consideration for employment without regard to race, color, religion, national origin, ancestry, age, sex or marital status, or mental or physical impairment/disability.
C. The Contractor shall comply with applicable reporting requirements that may apply to it which the City of Billings may establish by regulation.
D. The Contractor shall include the provisions of Subsections A through C of this Section in every subcontract or purchase order under this Contract, so as to be binding upon every such subcontractor or vendor of the Contractor under this Contract.
E. The Contractor shall comply with all applicable federal, state, and city laws concerning the prohibition of discrimination.
F. The Contractor and subcontractor shall abide by the requirements of 41 CFR 60-300.5(a) and 41 CFR 60-741.5(a), which prohibit discrimination against qualified protected veterans and/or qualified individuals on the basis of disability, and requires affirmative action by covered prime contractors and subcontractors to employ and advance in employment qualified protected veterans and individuals with disabilities.

Section 3. Permits, Laws, and Taxes.

The Contractor shall acquire and maintain in good standing permits, licenses and other entitlements necessary to its performance under this Contract. Performance under taken by the Contractor under this Contract shall comply with applicable statutes, ordinances, rules and regulations in effect as of the date of Contractor's proposal. The Contractor shall pay taxes pertaining to its performance under this Contract.

Section 4. Nonwaiver.

The failure of either party at any time to enforce a provision of this Contract shall in no way constitute a waiver of the provision, nor in any way affect the validity of this Contract or any part hereof, or the right of such party thereafter to enforce each and every provision hereof.

Section 5. Amendment.

A. This Contract shall only be amended, modified or changed by a writing, executed by authorized representatives of the parties, with the same formality as this Contract was executed.
B. For the purposes of any amendment modification or change to the terms and conditions of this Contract, the only authorized representatives of the parties are:

   Contractor: Daniel Korinek (Vice President) or Authorized Signatory

   Billings: City Council or Authorized Designee

C. Any attempt to amend, modify, or change this Contract by either an unauthorized representative or unauthorized means shall be void.

Section 6. Jurisdiction; Choice of Law.

Any civil action rising from this Contract shall be brought in the District Court for the Thirteenth Judicial District of the State of Montana, Billings. The law of the State of Montana shall govern the rights and obligations of the parties under this Contract.

If a dispute arises relating to the performance of the services to be provided and, should that dispute result in litigation, it is agreed that the substantially prevailing party (as determined in equity by the court) shall be entitled to recover all reasonable costs of litigation, including staff time, court costs, attorney's fees, and other related expenses.

The parties shall participate in good faith negotiations to resolve any and all disputes. Should negotiations fail, the parties agree to submit to and participate in a third party-facilitated mediation as a condition precedent to resolution by litigation. Unless otherwise agreed to, mediation shall be conducted under the rules of the American Arbitration Association and shall be held in Billings, Montana.

The parties agree that any dispute between them, including any action against an officer, director or employee of a party, arising out of or related to this Contract, whether in contract or tort, not resolved through direct negotiation and mediation, shall be resolved by litigation in the state or federal courts located in Yellowstone County, Montana, and each party expressly consents to jurisdiction therein. Any litigation to compel or enforce, or otherwise affect the mediation shall be in the state or federal courts location in Yellowstone County, Montana, and each party expressly consents to jurisdiction therein.

Causes of action between the parties shall accrue, and applicable statutes of limitation shall commence to run the date of Contractor's services are substantially complete.

Section 7. Severability.

Any provision of this Contract decreed invalid by a court of competent jurisdiction shall not invalidate the remaining provisions of the Contract.

Section 8. Integration.

This instrument and all appendices and amendments hereto embody the entire agreement of the parties. There are no promises, terms, conditions or obligations other than those contained herein; and this Contract shall supersede all previous communications, representations or agreements, either oral or written, between the parties hereto.

Section 9. Liability.

The Contractor shall indemnify, reimburse for defense of, save Billings for losses, damages and expenses arising from any wrongful or negligent act, error or omission of the Contractor or any agent, employee or subcontractor as a result of the Contractor's or any subcontractor's performance pursuant to this Contract.

A. The Contractor shall not indemnify, defend, save and hold Billings harmless from claims, causes of action, lawsuits, damages, judgments, liabilities, and litigation costs and expenses or attorneys' fees and costs arising from wrongful or negligent acts, error or omission solely of Billings occurring during the course of or as a result of the performance of the Contract.

The City of Billings shall indemnify, reimburse for defense of, save Contractor losses, damages and expenses arising from any wrongful or negligent act, error or omission of the City of Billings or any agent, employee or subcontractor as a result of the City of Billings's or any subcontractor's performance pursuant to this Contract.

B. The City of Billings shall not indemnify, defend, save and hold Contractor harmless from claims, causes of action, lawsuits, damages, judgments, liabilities, and litigation costs and expenses or attorneys' fees and costs arising from wrongful or negligent acts, error or omission solely of the Contractor occurring during the course of or as a result of the performance of the Contract.

Where claims, lawsuits or liability, including attorneys' fees and costs arise from wrongful or negligent act of both Billings and the Contractor, the Contractor shall indemnify,

reimburse the defense of, save, and hold Billings harmless from only that portion of claims, causes of action, lawsuits, damages, judgments, liabilities, and litigation costs and expenses including attorneys' fees and costs, which result from the Contractor's or any subcontractor's wrongful or negligent acts occurring as a result from the Contractor's performance pursuant to this Contract.

Section 10. Inspection and Retention of Records.

The Contractor shall, at any time during normal business hours and as often as Billings may deem necessary, make available to Billings, for examination, all of its records with respect to all matters covered by this Contract for a period ending three years after the date the Contractor is to complete performance in accordance with Section 2 of the Special Provisions. Upon request, and within a reasonable time, the Contractor shall submit such other information and reports relating to its activities under this Contract, to Billings, in such form and at such times as Billings may reasonably require. The Contractor shall permit Billings to audit, examine such records, and to make audits of all invoices, materials, records of personnel, and other data relating to all matters covered by this Contract. Billings may, at its option, permit the Contractor to submit its records to Billings in lieu of the retention requirements of this Section. Notwithstanding anything herein to the contrary, in no event shall Billings be entitled to audit the composition of any agreed upon fixed rates or charges or percentage multipliers set forth in the Contract or any Appendix or exhibit thereto nor shall it be entitled to audit any rates, charges, costs, total hours worked or expenses related to services performed on a lump sum or fixed price basis.

Section 11. Availability of Funds.

Payments under this Contract may require funds from future appropriations. If sufficient funds are not appropriated for payments required under this Contract, this Contract shall terminate without penalty to Billings; and Billings shall not be obligated to make payments under this Contract beyond those which have previously been appropriated.

Section 12. Liability.

In no event will Contractor be liable for any special, indirect, or consequential damages including, without limitation, damages or losses in the nature of increased Project costs, loss of revenue or profit, lost production, claims by customers or Billings, and/or governmental fines or penalties

Contractor's aggregate liability for all damages connected with its services for the Project not excluding by the preceding subparagraph, will not exceed the amount paid to Contractor under this Contract.

IN WITNESS WHEREOF, the parties have executed this Contract on the date and at the place shown below.

City of Billings

_____
City Council or Designee

Date:_____

ATTEST:

_____
City Clerk

Date:_____

Contractor

_____

Name:_____
Title:_____
Date:_____

IRS Tax ID #_____

APPROVED AS TO FORM:

By_____
BRENT BROOKS, City Attorney

STATE OF MONTANA)
:ss.
COUNTY OF YELLOWSTONE)

On this _____ day of _____, 2019, before me, the undersigned, a Notary Public for the State of Montana, personally appeared _____, known to me to be the _____ of _____, and acknowledged to me that they executed the foregoing instrument on behalf of said corporation having first been authorized to do so.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Notarial Seal the day and year first above written.

_____
Notary Public for the State of Montana
Residing at Billings, Montana
My Commission Expires:_____

Appendix A

Basic Services of Engineer
City of Billings W.O. 19-42, West End Water Treatment Plant Project

Section 1. Engineer's Rights and Duties.

A. To furnish labor, materials, equipment, supplies, and incidentals necessary to conduct and complete the Engineer's portion of the project as defined in the scope of work and to prepare and deliver to Billings all plans, specifications, bid documents, and other material as designated herein.

B. Ascertain such information as may have a bearing on the work from local units of government, utility companies, and private organizations and shall be authorized to procure information from other authorities besides Billings, but shall keep Billings advised as to the extent of these contacts and the results thereof.

C. Prepare and present such information as may be pertinent and necessary in order for Billings to pass critical judgment on the features of the work. The Engineer shall make changes, amendments or revisions in the detail of the work as may be required by Billings. When alternates are being considered, Billings shall have the right of selection.

D. Engineer's work shall be in accordance with the standards of sound engineering and present City, State, and National standards and policies currently in use.

E. Conform to the requirements of the Montana Code Annotated Title 18 "Public Contracts" and more particularly Sections 18-2-121 and 18-2-122, and all other codes of the State of Montana applicable to providing professional services including codes and standards nationally recognized.

F. The Engineer shall provide a professional engineer's stamp with the submission of final plans that the plans are in conformance with applicable sections of Title 69, Chapter 4, Part 5, of the Montana Code Annotated as pertaining to existing utilities.

G. To perform professional services in connection with the project and will serve as Billings' representative in those phases of the project to which this agreement applies.

H. Submit an estimated progress schedule as to time and costs at the beginning of the work, and monthly progress reports thereafter until complete. The reports will include any problems, potential problems, and delays as foreseen by the Engineer. Reports will be submitted in a timely manner to permit prompt resolution of problems.

I. Name a Task Director who shall be the liaison between Billings and the Engineer. For this project the Task Director designated for the Engineer is Jason Schaefer working under the Principal-in-Charge, Daniel Korinek.

Section 2. Billings Rights and Duties.

A. To furnish all labor, materials, equipment, supplies, and incidentals necessary to conduct and complete Billings' portion of the project as designated in the scope of work.

B. Name a Task Director who shall be the liaison between the Engineer and Billings. For this project, the Task Director designated is Randy Straus, working under the City Engineer, Debi Meling.

Section 3. Scope of Work.

TASK SERIES 100 – Meetings and Project Management

Task 101 –Project Kickoff Meeting:
The Burns & McDonnell project team will attend a project kick-off meeting to be held with City staff. The meeting shall include discussion of pertinent items for the project such as:

- Present project background.
- Introduce key staff involved in the project including City personnel who are to provide information/services.
- Determine lines of communication and project contacts (contact list to be developed).
- Identify available existing data and exchange.
- Discuss key issues and goals.
- Review the project schedule and milestones.
- Outline possible community concerns, neighboring residents, businesses, easements, etc.
- Discuss overall project scope of work.

Task 102 –Monthly Progress Meetings:
The Burns & McDonnell project team will prepare for, attend, and conduct monthly progress meetings. These meeting will be held at the City's offices. The Burns & McDonnell project team will provide meeting minutes with a decision log and a list of action items. Meeting minutes will be distributed via e-mail. When workshops and kickoff meeting coincide with monthly progress meetings the meetings will be combined. Assumes 6 months of meetings. Meetings will normally be held at the Public Works Conference Room. Regular workshop attendees will include the PM and a process engineer. Other resources will participate as part of a virtual meeting.

Task 103 –Bi-Monthly Management Meetings:
The Burns & McDonnell project team will prepare for, attend, and conduct bi-monthly management meetings. These meeting will be held at the City's offices. The Burns & McDonnell project team will provide meeting minutes with a decision log and a list of action items. Meeting minutes will be distributed via e-mail. Assumes 8 months of meetings (4 total meetings). When possible, these meetings will be conducted on the same day as progress meetings and/or workshops in order to minimize travel expenses.

Task 104 – Monthly Status Report Submittals:
The Burns & McDonnell project team will utilize the monthly invoicing format provided by the

City of Billings and supplement its monthly status report as necessary toinclude the following items:

- Budget Tracking
- Scope of work completed the prior month
- Activities projected for next month
- Potential concerns
- Schedule update

Task 105 – Regulatory Support:
The Burns & McDonnell project team will work with DEQ to coordinate proposed and selected treatment alternatives. Our team will also determine if DEQ will require any pilot testing is required for any of the treatment processes. The Burns & McDonnell project team will develop an overall permitting matrix for the project.

Task 106 – Project Management:
Project management for the Basis of Design phase include all project coordination between the City and the consultant team members. The project manager will monitor project status, monitor project schedule, monitor project deliverables and coordinate resources including sub-consultants. The task also includes an internal bi-weekly progress meeting.

TASK SERIES 200 – WATER QUALITY CHARACTERIZATION

Task 201 – Review Existing Water Quality:
The City will provide available water quality data from the Yellowstone River in electronic format and through monthly operating reports. The Burns & McDonnell project team will import this data into the raw water quality model. The raw water quality data will be evaluated for all major constituents which would impact the performance of potential processes or finished water goals. This data will include, at a minimum: establishment of boundary conditions for design with consideration of the new reservoirs, evaluation of trends, identification of gaps in water quality needed for design, recommendations for further sampling.

Task 202 –Recommend Additional Water Quality Testing:
The Burns & McDonnell project team will utilize the existing data provided by the City and determine if any additional data is required for a complete analysis of the raw water sources in the above task. A sampling plan will be prepared which identifies constituents to be tested, frequency, location, sampling procedures and standard methods, and recommendations for laboratory turn-around-times. The City will be responsible for sampling, establishing outside laboratory contracts, and obtaining analytical reports. The Burns & McDonnell project team will assist the City during sampling, review reports as they are received, verify results and compile data. These results will be incorporated into the water quality model, and the analyses within Task 201.

Task 203 – Design Water Quality TM Submittal:
The Burns & McDonnell project team will provide a summary of the water quality results and prepare a Draft Technical Memorandum (TM) for City Review. Following the City review, The Burns & McDonnell project team will perform the Design Water Quality TM workshop. Questions, comments, and discussion from the Design Water Quality workshop and City comments from the Draft TM will be incorporated into the final TM. Technical memorandum will be issued via email.

Task 204 – Incorporate City Comments on Water Quality TM:
The Burns & McDonnell project team has allotted two weeks for the City to review the Draft TM. This task is intended to address comments on the draft TM.

Task 205 – Design Water Quality TM Workshop:
The Burns & McDonnell project team will prepare for, attend, and conduct a design water quality review workshop to be held with City staff. The design water quality results shall be presented by the Consultant and reviewed in detail with the City. City staff shall provide written comments to be presented at the review meeting. The Burns & McDonnell project team will provide meeting minutes with a decision log and a list of action items. Meeting minutes will be distributed via e-mail.

TASK SERIES 300 – IDENTIFY PROCESS TRAINS

Task 301 – Identify Process Trains and Residuals Trains
The Burns & McDonnell project team will develop preliminary project design criteria, finished water goals, and develop conceptual primary or liquid stream treatment trains to treat the water sources. In addition, to the process trains, the Burns & McDonnell project team will develop multiple residuals handling trains. Potential interdependencies between residuals handling will be identified. The process trains will be used for discussion at the workshop. A packet will be prepared with train descriptions, tables of design criteria and finished water goals, and conceptual exhibits of the primary and residuals trains for review by the City at the workshop.

Task 302 – Process & Residual Train Workshop:
The Burns & McDonnell project team will prepare for, attend, and conduct a process and dewatering train review workshop to be held with City staff. The packet prepared in Task 301 will be issued one week prior to the workshop. The process and dewatering train options shall be presented by the Consultant and modified as necessary with the City. The purpose of this workshop is to determine all potential trains and cull the list to no more than 3 total trains for forthcoming evaluations. The Burns & McDonnell project team will provide meeting minutes with a decision log and a list of action items. Meeting minutes will be distributed via e-mail.

Task 303 – Process & Residual Train TM Submittal
The Burns & McDonnell project team will provide a summary of the process and residual train options and prepare a Technical Memorandum (TM). Questions, comments, and discussion from the Process & Dewatering workshop and City comments from the Draft TM will be incorporated into the Final TM. The remaining water quality sampling data will be incorporated to this TM from Task 202, and the water quality characterization model updated.

Task 304 – Incorporate City Comments on Process & Residual Train TM:
The Burns & McDonnell project team has allotted two weeks in the schedule for the City to review the TM. This task is intended to address comments on the draft TM.

TASK SERIES 400 – DESKTOP TREATMENT TRAIN EVALUATION

Task 401 – Preparation of Process Selection Tools:
The Burns & McDonnell project team will utilize the process & residuals trains identified in Task 300 to prepare the Process Selection Tool. A draft list of evaluation criteria, and project

design criteria will be prepared for discussion at the Workshop and issued as a packet one week prior to the workshop.

Task 402 – Review Trains & Establish Ranking Workshop:
The Burns & McDonnell project team will prepare for, attend, and conduct a Review Trains & Establish Ranking Workshop to be held with City staff. The review trains & establish ranking workshop shall be an interactive meeting to: review treatment trains selected in previous workshop, confirm final list of evaluation criteria for ranking trains, conduct pair-wise ranking of the evaluation criteria, and conduct weighted ranking of evaluation criteria versus each train. The outcome of this workshop will be a non-monetary ranking of the treatment trains using the Process Selection Tool. The Burns & McDonnell project team will provide meeting minutes with a decision log and a list of action items. Meeting minutes will be distributed via e-mail.

Task 403 – Construction Costs for Options:
Based on the Process Selection Workshop, our project team will prepare the engineer's opinion of probable cost to populate the life cycle cost model for the top alternatives. Our estimate will be based on recent bid tabulation information, historical cost data, and discussions with local suppliers and contractors. All assumptions will be included for reference. All costs developed at this stage are assumed to be AACE Class 5.

Task 404 – Lifecycle Cost Analysis:
The Burns & McDonnell project team will also develop ownership and maintenance costs associated with the different processes to be utilized for the overall process selection analysis. All costs developed at this stage are assumed to be AACE Class 5.

Task 405 – Treatment Train Evaluation TM Submittal:
The Burns & McDonnell project team will provide a TM detailing the treatment trains, final descriptions, ranking from the above workshops, and lifecycle costs associated with each train. These costs will be submitted along with assumptions made during the analysis. Questions, comments, and discussion from the Treatment Train Evaluation Workshop and City comments from the Draft TM will be incorporated into the final TM.

Task 406 – Incorporate City Comments on Treatment Train Evaluation TM:
The Burns & McDonnell project team has allotted two weeks in the schedule for the City to review the TM. This task is intended to address comments on the draft TM.

Task 407 – Finalize Train Selection Workshop:
The Burns & McDonnell project team will prepare for, attend, and conduct a treatment train selection workshop to be held with City staff. The lifecycle costs will be incorporated into the Process Selection Tool and a cost-benefit analysis conducted on each train, to determine final ranking. In addition, a sensitivity analysis will be conducted on selected criteria. The treatment train to proceed with bench-scale testing and pilot testing will be determined at this meeting. The Burns & McDonnell project team will provide meeting minutes with a decision log and a list of action items. Meeting minutes will be distributed via e-mail.

TASK SERIES 500 – BENCH-SCALE TESTING

Task 501 – Bench-Scale Testing Protocol:
The Burns & McDonnell project team will develop a draft testing plan/protocol for the City's review. The testing protocol will include the operating procedure, testing goals, water quality

sampling and other protocols required during the bench-scale test. Comments from City will be incorporated into the final protocol

Task 502 – Incorporate City Comments on Bench-Scale Testing Protocol:
The Burns & McDonnell project team has allotted two weeks in the schedule for the City to review the Bench-Scale Testing Protocol. This task is intended to address comments on the draft protocol.

Task 503 – Bench-Scale Testing:
The exact bench-scale testing will be determined following the treatment train determination. For example, the Burns & McDonnell project team will perform the following for the different treatment trains:

- Pretreatment – The Burns & McDonnell project team will perform jar tests on alternative coagulants and oxidants. The Burns & McDonnell project team has assumed that this can be accomplished with approx. 20 jar tests.
- Ozone – The Burns & McDonnell project team will determine the feasibility of using ozone for taste and odor control, production of assimilable organic carbon (AOC), treatment process enhancements, and evaluate additional advantages and disadvantages to ozone systems. The ozone testing will be performed with a the Burns & McDonnell project team's ozone generator with flow through columns. The bench scale testing will be conducted in one week with two engineers operating the system with one day to set up the equipment and one day to remove the equipment.
- Biofiltration – Conduct biological filtrations tests at Test America's Applied Science Laboratory in Corvallis, OR. The Burns & McDonnell project team will coordinate biofiltration design with Test America. This task assumes that testing and shipping fee paid directly by the City.
- UV – The Burns & McDonnell project team will send treated water to an equipment vendor to perform the desired UV testing.

Task 504 – Water Quality Analysis Testing:
The Burns & McDonnell project team will perform all of the bench scale testing and data collection with assistance from City staff for the collection of water supply samples and basic laboratory testing on the raw water that can be conducted onsite during testing (turbidity, temperature, color, UVT, pH, hardness, and alkalinity). The Burns & McDonnell project team has assumed that the cost for all lab equipment, consumables and outside water quality laboratory work would be paid by the City.

Task 505 – Bench-Scale Testing TM Submittal:
The Burns & McDonnell project team will provide a summary of the Bench-Scale Testing and prepare a Technical Memorandum (TM). The life cycle cost model and AACE Class 5 cost estimates for the train will be updated for the TM. City comments from the Draft TM will be incorporated into the final TM.

Task 506 – Incorporate City Comments on Bench-Scale Testing TM:
The Burns & McDonnell project team has allotted two weeks in the schedule for the City to review the TM. This task is intended to address comments on the draft TM.

TASK 600- PRELIMINARY FIELD SURVEYING

Task 601 – Survey

The Burns & McDonnell team will provide a topographical survey of the preferred site for the new water treatment plant. The horizontal and vertical datums for this project shall be approved by the City. Approximately 40 acres will be surveyed on the preferred site. Survey will extend across Hesper Road and South 48th Street West.

The survey will also include survey of the Hesper Road corridor from South 40th Street West to South 48th Street West for extension of utilities to the preferred site (e.g. sanitary sewer, etc.).

Survey will include utility locations as located by Montana One Call and applicable public/private utilities, property lines, structures, and all other information needed for design of the new water treatment plant. Utility locator markings and visible property corners along the route will be surveyed in the proposed survey area.

Survey of the raw water pump station site and intake site is not included in the scope. Data from the reservoir project will be utilized for the topography and utility information required for preliminary design. Additional survey of this area will be performed to confirm the survey matches our datum during detailed design.

Task 602 - Geotechnical Investigations

The geotechnical investigations shall consist of drilling a total of sixteen (16) exploratory borings at the water treatment facility and pump station site and raw water intake and pump station site. All borings shall be drilled to a depth of 20 to 30 feet. A total of four (4) of the borings will be located at the raw water pump station and intake in which the location will be determined at a later date. Four (4) borings shall be drilled to a minimum depth of 40 feet or top of competent bedrock or as required to adequately determine and delineate the soil strata. A report will be prepared to provide identification, sample and test soils encountered, discuss geotechnical design and construction concerns, take ground water depth measurements, and provide geotechnical design criteria. Testing for contaminated soils or water are not included in this investigation.

Task 603 - Utility Potholing

The extent of potholing will be determined during the project and paid from a contract allowance of $10,000.

Task 604 - Deliverables

Provide survey mapping to be utilized for design (one-foot contours).
Provide existing utilities information for inclusion in final design drawings.
Provide a report summarizing the geotechnical information.

TASK SERIES 700 – HYDRAULIC ANALYSIS

Task 701 – Raw Water Intake Evaluation

Burns & McDonnell's Project Team will provide an evaluation of the raw water intake options and prepare a Technical Memorandum (TM). Questions, comments, and discussion from the Hydraulic Analysis workshop and City comments from the Draft TM will be incorporated into the Final TM.

Task 702 – Hydraulic Modeling

Burns & McDonnell's Project Team will provide an analysis of the transmission and distribution systems (focused on Pressure Zones 3 and 2) using the City's most recent 2019 update of its hydraulic model and prepare a Technical Memorandum (TM). Questions, comments, and discussion from the hydraulic analysis workshop and City comments from the Draft TM will be incorporated into the Final TM. This will help identify sizing of the high service pump station in addition to location and sizing of the water transmission main leaving the high service pump station.

The steady state model will analyze initial design capacity (20 MGD) and future design capacity (40 MGD). The basis of the hydraulic model will be the City's most recent 2019 update of its existing model.

Current and future demands will be provided by the City from current master planning efforts. This analysis will match years evaluated in the ongoing master plan. Recent projects will be provided by the City for updating missing infrastructure in the model.

Task 703 – Raw Water Pump Station Evaluation

Burns & McDonnell's Project Team will provide an evaluation of the raw water pump station options and prepare a Technical Memorandum (TM). Questions, comments, and discussion from the hydraulic analysis workshop and City comments from the Draft TM will be incorporated into the Final TM. Analysis will include pump types, preferred pump manufacturers, pump head and discharge characteristics, and layout options.

Task 704 – High Service Pump Station Evaluation

Burns & McDonnell's Project Team will provide an evaluation of the high service pump station options and prepare a TM. Questions, comments, and discussion from the hydraulic analysis workshop and City comments from the Draft TM will be incorporated into the Final TM. Analysis will include pump types, preferred pump manufacturers, layout options, pump head and discharge characteristics, and pumping to Zone 3 or both Zone 3 and Zone 2.

Task 705 – Surge Modeling and Analysis

Burns & McDonnell's Project Team will provide a surge analysis (aka transient analysis) of the transmission main exiting the new water treatment plant and prepare a Technical Memorandum (TM). Questions, comments, and discussion from the hydraulic analysis workshop and City comments from the Draft TM will be incorporated into the Final TM. This task will analyze scenarios to determine the impacts of high and low pressures within the distribution system due to surge events. The surge model will analyze initial design capacity (20 MGD) and future design capacity (40 MGD). The basis of the surge model build will be the City's most recent 2019 update of its existing model . Current and future demands will be provided by the City from current master planning efforts.

Task 706 – Finalize Hydraulic Analysis Workshop:

Burns & McDonnell's Project Team will prepare for, attend, and conduct a hydraulic analysis workshop to be held with City staff. The Hydraulic Analysis workshop will include discussion of the raw water intake, hydraulic analysis, raw water pump station, high service pump station, and surge analysis. Burns & McDonnell's Project Team will provide meeting minutes with a decision log and a list of action items. Meeting minutes will be distributed via e-mail.

TASK SERIES 800- PRELIMINARY DESIGN REPORT

Task 801 – Develop and Submit Operations Questionnaire:
The Burns & McDonnell project team will develop an operator questionnaire that will include questions regarding the future design requirements and/or equipment preferences. The Burns & McDonnell project team will submit this questionnaire to a list of applicable staff as provided by the City to collect preferences and requirements on all treatment, process equipment, electrical equipment, SCADA equipment, lab requirements, operations center, maintenance/storage requirements, administration spaces, etc. All of this information will be documented and included in the preliminary design report.

Task 802 – Water Treatment Plant Tours:
The Burns & McDonnell project team will host a two-day tour of multiple water treatment plant tours in the Denver Metro Area. The intent of the tours will be to collect preference/like/dislikes of existing water treatment facilities. In addition, the tours will provide the opportunity for the City staff to hear preferences of other municipalities. This information will be documented and included in the preliminary design report. The Burns & McDonnell project team includes cost and time for their staff, but has not included any cost for City staff to attend.

Task 803 – Preliminary Design Report Submittal:
The Burns & McDonnell project team will develop a complete preliminary design report (PDR) that will include the following items for the intake, raw water pump station, water treatment plant, and high service pump station: raw water quality, finished water quality goals, process selection, bench testing results, preference developed in Task 701 & 702, site development, treatment process design, architectural, structural, mechanical, electrical, instrumentation & control, capital cost estimates, operational cost estimates, survey, geotechnical report, schedule, and phasing.

Task 804 – Incorporate City Comments on Preliminary Design Report (PDR):
The Burns & McDonnell project team has allotted two weeks for the City to review the Draft PDR. This task is intended to address comments on the draft PDR.

Task 805 – PDR Workshop:
The Burns & McDonnell project team will prepare for, attend, and conduct a preliminary design report workshop to be held with City staff. The PDR shall be presented by The Burns & McDonnell project team and reviewed in detail with the City. City staff shall provide written comments to be presented at the review meeting. The Burns & McDonnell project team will provide meeting minutes with a decision log and a list of action items. Meeting minutes will be distributed via e-mail.

Future Tasks
Scope items to be added by future amendment include but are not limited to:

- Design services
- Bidding services
- Construction services
- Startup and training services
- SCADA programming services

Warranty services

Appendix B

Methods and Times of Payment
City of Billings W.O. 19-42, West End Water Treatment Plant Project

Section 1. Payments for Basic Services.

Billings shall authorize payment to the Engineer for services performed under Appendix A of this Agreement. Partial payment shall be due the Engineer upon receipt of the Engineer's pay estimate, said estimate being proportioned to the work completed by the Engineer.

Partial payment shall be made to the Engineer upon receipt of the Engineer's pay estimate, said estimate being proportioned to the work completed by the Engineer. Billings shall deduct five percent (5%) from each monthly pay estimate to be held until the completion of the final scope of work. The final payment shall be made only after acceptance of final documents by Billings, and determination that the scope of work has been satisfactorily completed.

A. For services rendered prior to construction, Appendix A, the Engineer shall be paid based upon actual time accrued, but not to exceed Eight Hundred Eighty Three Thousand Seven Hundred Thirty Two and No/100 Dollars ($883,732.00).

B. Final payment shall be the above stated basic fee less all previous payments.

Section 2. Payments for Extra Services when Authorized by Billings.

Requests made or conditions identified by interested groups at the agency or public meetings, which are beyond the scope and intent of this project shall be paid for on an hourly basis at the applicable fees in Appendix D.

Section 3. Corrections.

Costs of Billings work that is required for corrections to the Engineer's work which requires redoing by Billings shall be deducted from any payments due the Engineer, if the Engineer fails to make the required corrections.

Section 4. Fee Increases

For contracts and services that are expected to require more than one (1) year to complete, the above stated basic services payments may be reviewed and adjusted annually by mutual agreement of the parties, based upon documented evidence that the Engineer's costs and hourly rates as shown in Appendix D have increased for all comparable clients.

Appendix C

Additional Services of Engineer
City of Billings W.O. 19-42, West End Water Treatment Plant Project

Extra Services of the Engineer will be paid only with written prior authorization by Billings.

A. Requests made or conditions identified by interested groups at the agency or public meetings, which are beyond the scope and intent of this study.

Appendix D

Schedule of Professional Fees
City of Billings W.O. 19-42, West End Water Treatment Plant Project

Not used in this contract.

Appendix E

Project Schedule
City of Billings W.O. 19-42, West End Water Treatment Plant Project

Based on a notice to proceed by Billings date no later than August 13, 2019, the completion date for the Engineer's work shall be on or before December 31, 2020.

Delays affecting the completion of the work within the time specified of more than ninety (90) days, not attributable to or caused by the Parties hereto, may be considered as cause for the renegotiation or termination of this Contract.

If the Engineer is behind on this Contract due to no fault of Billings, then the Engineer hereby acknowledges the right of Billings to withhold future Contracts to the Engineer in addition to any other remedy until this Contract is brought back on schedule or otherwise resolved.

Appendix F

Certificate(s) of Insurance
City of Billings W.O. 19-42, West End Water Treatment Plant Project

(Attach Certificate(s) of Insurance)

Consent **1. G.**

Regular City Council Meeting

Meeting Date: 08/12/2019

TITLE: W.O. 18-32 Landfill Slope Stabilization, Professional Services Contract with Pioneer Technical Services, Inc.

PRESENTED BY: David Mumford, Public Works Director

Department: Public Works

Presentation: No

PROBLEM/ISSUE STATEMENT

The landfill slope above Jellison Road experienced failures in 2018. The City had a hazard assessment and mitigation alternatives analysis performed and has selected an alternative.

This project includes the necessary professional services to implement the alternative including, but not limited to: site geotechnical investigation, final design, bidding services, and construction administration.

Proposals were requested for the professional services described above. Three firms submitted proposals and Pioneer Technical Services, Inc. was selected as the preferred consultant.

ALTERNATIVES ANALYZED

City Council may:

- Award a Professional Services Contract to Pioneer Technical Services, Inc., or;
- Do not award a contract to Pioneer Technical Services, Inc. If this agreement is not approved, construction and mitigation will be delayed.

FINANCIAL IMPACT

The contract is in the amount of $110,006.00 and is being funded with Solid Waste funds as approved in the FY 2020 budget. There are adequate funds for this contract amount.

RECOMMENDATION

Staff recommends that the City Council approve the Professional Services Contract with Pioneer Technical Services, Inc. for W.O. 18-32 Landfill Slope Stabilization in the amount of $110,006.00.

APPROVED BY CITY ADMINISTRATOR

Attachments

WO 18-32 Base Contract
WO 18-32 Appendix A
WO 18-32 Appendix B
WO 18-32 Appendix C
WO 18-32 Appendix D
WO 18-32 Appendix D Rate Sheet
WO 18-32 Appendix E

Contract for Professional Architectural and Engineering Services

W.O. 18-32 – Landfill Slope Stability

In consideration of the mutual promises herein, City of Billings and Pioneer Technical Services, Inc. agree as follows. This Contract consists of:

Part I, consisting of 15 Sections of Special Provisions;

Part II, consisting of 11 Sections of General Provisions;

Appendix A consisting of 5 pages (Basic Services of Contractor);

Appendix B consisting of 1 page (Methods and Times of Payment);

Appendix C consisting of 1 page (Additional Services of Contractor);

Appendix D consisting of 2 page (Schedule of Professional Fees);

Appendix E consisting of 1 page (Project Schedule);

Appendix F consisting of 1 page (Certificate(s) of Insurance)

PART I
SPECIAL PROVISIONS

Section 1. Definitions.

In this Contract:

A. "Administrator" means the City Engineer of the Engineering Division of the Public Works Department or his/her designee.
B. “Billings” means the City of Billings.
C. "Contractor" or “Engineer” means Pioneer Technical Services, Inc.

Section 2. Scope of Services.

A. The Contractor shall perform professional services in accordance with Appendix A, which is attached hereto and incorporated in this Section by reference.
B. Billings shall pay the Contractor in accordance with the Schedule of Professional Fees attached as Appendix D and incorporated herein by reference for services actually performed under this Contract.
C. Billings shall not allow any claim for services other than those described in this Section. However, the Contractor may provide, at its own expense, any other services that are consistent with this Contract.

D. The Engineer shall provide as-built drawings as approved by the City of Billings, to the Administrator within 30 days after the project completion date. Final payment will be withheld until the as-built drawings are received by the City of Billings.

   Requirements for submitting as-constructed documents of completed Private Contracts, Work Orders, Special Improvement Districts and Site plans involving any City of Billings infrastructure: a point file; 1 (*.asc, *.txt, comma delimited; point number, northing, easting, elevation and description) / 2 (*.csv, with headings for; point number, northing, easting, elevation and description), with northings and eastings to the nearest tenth of a foot, elevations to the nearest hundredth of a foot, representing new, updated or relocated City of Billings infrastructure features such as, but not limited to Sanitary Sewer Manholes, Storm Drain Manholes, Water Valves, Water Bends, Signals, Street Light, etc., in the coordinates of Montana State Plane, Zone 2500 using NAD83(2011), Horizontal and NAVD88 Vertical, Horizontal units and Vertical units will be International feet; one (1) half-size paper copy to scale; one (1) full-size paper copy to scale; two (2) CDs, DVDs, or flashdrives with PDF files being half-size to scale and full-size to scale and AutoCAD DWG files as-constructed / as-built, Version 2016, or equivalent.

E. The Contractor shall provide certified construction payrolls to the Administrator stating in writing that the payrolls have been reviewed and are acceptable.

Section 3. Time for Performance.

A. This Contract becomes effective when signed on behalf of Billings.
B. The Contractor shall commence performance of the Work described in Section 2 on receipt of written Notice to Proceed and complete that performance in accordance with the schedule set forth in Appendix D.
C. This Contract shall terminate at midnight on August 31, 2020.

Section 4. Compensation; Method of Payment.

A. Each month, or at the conclusion of each phase of the Work for which payment is due, as negotiated on a per-task basis, the Contractor shall present a bill to the Administrator describing the Work for which it seeks payment and documenting expenses and fees to the satisfaction of the Administrator. If any payment is withheld because the Contractor's performance is unsatisfactory, the Administrator must, within ten (10) days of the payment denial, notify the Contractor of the payment denial and set forth, with reasonable specificity, what was unsatisfactory and why. Billings will pay Contractor within 30 days of receiving an acceptable invoice.
B. The Contractor is not entitled to any compensation under this Contract, other than is expressly provided for in this Section.
C. As a condition of payment, the Contractor shall have paid all City taxes currently due and owing by the Contractor.

Section 5. Termination of the Contractor's Services.

The Contractor's services under Section 2 of this Part may be terminated:

A. By mutual consent of the parties.
B. For the convenience of Billings, provided that Billings notifies the Contractor in writing of its intent to terminate under this paragraph at least 10 days prior to the effective date of the termination.
C. For cause, by either party where the other party fails in any material way to perform its obligations under this Contract. Termination under this Subsection is subject to the condition that the terminating party notifies the other party of its intent to terminate, stating with reasonable specificity the grounds therefor, and the other party fails to cure the default within 30 days after receiving the notice.

Section 6. Duties Upon Termination

A. If Billings terminates the Contractor's services for convenience, Billings shall pay the Contractor for its actual costs reasonably incurred in performing before termination and Billings shall pay for services rendered prior to termination. Payment under this Subsection shall never exceed the total compensation allowable under Section 4 of this Part. All finished and unfinished documents and materials prepared by the Contractor shall become the property of Billings.
B. If the Contractor's services are terminated for cause, Billings shall pay the Contractor the reasonable value of the services satisfactorily rendered prior to termination, less any damages suffered by Billings because of the Contractor's failure to perform satisfactorily. The reasonable value of the services rendered shall never exceed ninety percent (90%) of the total compensation allowable under Section 4 of this Part. Any finished or unfinished documents or materials prepared by the Contractor under this Contract shall become the property of Billings at its option.
C. If the Contractor receives payments exceeding the amount to which it is entitled under Subsections A or B of this Section, he shall remit the excess to the Administrator within 30 days of receiving notice to do so.
D. The Contractor shall not be entitled to any compensation under this Section until the Contractor has delivered to the Administrator all documents, records, Work product, materials and equipment owned by Billings and requested by the Administrator.
E. If the Contractor's services are terminated for whatever reason the Contractor shall not claim any compensation under this Contract, other than that allowed under this Section.
F. If a final audit has not been performed before the Contractor's services are terminated, Billings may recover any payments for costs disallowed as a result of the final audit.
G. Except as provided in this Section, termination of the Contractor's services under Section 5 of this Part does not affect any other right or obligation of a party under this Contract.

Section 7. Insurance.

A. The Contractor shall maintain in good standing the insurance described in Subsection B of this Section. Before rendering any services under this Contract, the Contractor shall furnish the Administrator with proof of insurance in accordance with Subsection B of this Section.
B. The Contractor shall provide the following insurance:

    1. Workers' compensation and employer's liability coverage as required by Montana law.
    2. Commercial general liability, including contractual and personal injury coverage's -- $1,500,000 per occurrence.
    3. Commercial automobile liability -- $1,500,000 per accident.
    4. Professional liability in the amount of $1,500,000 per claim.

C. Each policy of insurance required by this Section shall provide for no less than 30 days' advance notice to Billings prior to cancellation.
D. Billings SHALL be listed as an additional insured on all policies except Professional Liability and Worker's Compensation Policies. In addition, all policies except Professional Liability and Worker's Compensation shall contain a waiver of subrogation against Billings.

Section 8. Assignments.

Unless otherwise allowed by this Contract or in writing by the Administrator, any assignment by the Contractor of its interest in any part of this Contract or any delegation of duties under this Contract shall be void, and an attempt by the Contractor to assign any part of its interest or delegate duties under this Contract shall give Billings the right immediately to terminate this Contract without any liability for Work performed.

Section 9. Ownership; Publication, Reproduction and Use of Material.

A. Except as otherwise provided herein, all data, documents and materials produced by the Contractor under this Contract shall be the property of Billings, which shall retain the exclusive right to publish, disclose, distribute and otherwise use, in whole or in part, any such data, documents, or other materials. Exclusive rights shall not be attributed to portions of such materials presently in the public domain or which are not subject to copyright. Contractor shall retain rights to pre-existing proprietary property including but not limited to interactive models. The Contractor shall have the right to include photographic or artistic representations of the design and construction of the Project among the Contractor's promotional and professional materials. The Contractor's materials shall not include Billings' confidential or proprietary information regardless of whether Billings has previously advised the Contractor in writing of the specific information considered by Billings to be confidential and proprietary.
B. Equipment purchased by the Contractor with Contract funds: See Appendix A, Section 3. Scope of Work.
C. Should Billings elect to reuse Work products provided under this Contract for other than the original project and/or purpose, Billings will indemnify and hold harmless the

Contractor from any and all claims, demands and causes of action of any kind or character arising as a result of reusing the documents developed under this contract. Additionally, any reuse of design drawings or specifications provided under this Contract must be limited to conceptual or preliminary use for adaptation, and the original Contractor's or subcontractor's signature, professional seals and dates removed. Such reuse of drawings and specifications, which require professional seals and dates removed, will be signed, sealed, and dated by the professional who is in direct supervisory control and responsible for adaptation.

Section 10. Notices.

Any notice required pertaining to the subject matter of this Contract shall be either sent via facsimile (FAX) or mailed by prepaid first class registered or certified mail, return receipt requested to the following addresses:

Billings: Will Robbins
City of Billings
Public Works/Engineering
2224 Montana Avenue e-mail: robbinsw@ci.billings.mt.us
Billings, Montana 59101 FAX: (406) 237-6291

Contractor: Chad Raisland, PE
Pioneer Technical Services, Inc.
2310 Broadwater Ave. Suite 1
Billings, MT 59102 e-mail: craisland@pioneer-technical.com
FAX: 406-545-4805

Notices are effective upon the earlier of receipt, proof of good transmission (facsimiles only), or 5 days after proof of proper posting.

Section 11. Contract Budget.

In connection with its performance under this Contract, the Contractor shall not make expenditures other than as provided in line items in the Contract budget.

Section 12. Force Majeure.

A. Any failure to perform by either party due to force majeure shall not be deemed a violation or breach hereof.
B. As used in this Contract, force majeure is an act or event of substantial magnitude, beyond the control of the delayed party, which delays the completion of this Contract, including without limitation:
   1. Any interruption, suspension or interference resulting solely from the act of Billings or neglect of Billings not otherwise governed by the terms of this Contract.
   2. Strikes or Work stoppages.

3. Any interruption, suspension or interference with the project caused by acts of God, or acts of a public enemy, wars, blockades, insurrections, riots, arrests or restraints of governments and people, civil disturbances or similar occurrences.
4. Order of court, administrative agencies or governmental officers other than Billings.

Section 13. Financial Management System.

The Contractor shall establish and maintain a financial management system that:

A. Provides accurate, current, and complete disclosure of all financial transactions relating to the Contract;
B. Maintains separate accounts by source of funds for all revenues and expenditures and identifies the source and application of funds for the Contractor's performance under this Contract, including information pertaining to subcontracts, obligations, unobligated balances, assets, liabilities, outlays and income;
C. Effectively controls and accounts for all municipal funds and Contract property;
D. Compares actual expenditures with budgeted amounts and relates financial information to performance or productivity data including unit cost information where applicable;
E. Allocates administrative costs to direct service delivery units;
F. Minimizes the time between receipt of funds from Billings and their disbursement by the Contractor;
G. Provides accounting records supported by source documentation; and
H. Provides a systematic method assuring the timely and appropriate resolution of audit findings and recommendations.

Section 14. Funding Requirements.

In the event that any funding source for this Contract should impose additional requirements upon Billings for the use of those funds, the Contractor agrees to abide by those additional requirements immediately upon receipt of written notice thereof from Billings.

Section 15. Subcontracts.

The Contractor may enter into subcontracts for the purchase of goods and services necessary for the performance of this Contract, provided:

A. Every subcontract shall be reduced to writing and contain a precise description of the services or goods to be provided and the nature of the consideration paid therefor.
B. Every subcontract under which the Contractor delegates the provision of services shall be subject to review and approval by the Administrator before it is executed by the Contractor.
C. Every subcontract in an amount exceeding $1,000 shall require reasonable access to business records of the subcontractor relating to the purchase of goods or services pursuant to the subcontract.

PART II
GENERAL CONTRACT PROVISIONS

Section 1. Relationship of Parties.

The Contractor shall perform its obligations hereunder as an independent Contractor of Billings. Billings may administer the Contract and monitor the Contractor's compliance with its obligations hereunder. Billings shall not supervise or direct the Contractor other than a provided in this Section.

Section 2. Nondiscrimination.

A. The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, national origin, ancestry, age, sex, or marital status or who is a "qualified individual with a disability" (as that phrase is defined in the Americans With Disabilities Act of 1990). The Contractor will take affirmative action to ensure that applicants are employed and that employees are treated during employment without regard to their race, color, religion, or mental or physical impairment/disability. Such action shall include, without limitation, employment, upgrading, demotion or transfer, recruitment or recruiting advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training including apprenticeship. The Contractor agrees to post, in conspicuous places available to employees and applicants for employment, notices setting forth the provisions of this non-discrimination clause.
B. The Contractor shall state, in all solicitations or advertisements for employees to Work on Contract jobs, that all qualified applicants will receive equal consideration for employment without regard to race, color, religion, national origin, ancestry, age, sex or marital status, or mental or physical impairment/disability.
C. The Contractor shall comply with any and all reporting requirements that may apply to it which the City of Billings may establish by regulation.
D. The Contractor shall include the provisions of Subsections A through C of this Section in every subcontract or purchase order under this Contract, so as to be binding upon every such subcontractor or vendor of the Contractor under this Contract.
E. The Contractor shall comply with all applicable federal, state, and city laws concerning the prohibition of discrimination.
F. The Contractor and subcontractor shall abide by the requirements of 41 CFR 60-300.5(a) and 41 CFR 60-741.5(a), which prohibit discrimination against qualified protected veterans and/or qualified individuals on the basis of disability, and requires affirmative action by covered prime contractors and subcontractors to employ and advance in employment qualified protected veterans and individuals with disabilities.

Section 3. Permits, Laws, and Taxes.

The Contractor shall acquire and maintain in good standing all permits, licenses and other entitlements necessary to its performance under this Contract. All actions taken by the

Contractor under this Contract shall comply with all applicable statutes, ordinances, rules and regulations. The Contractor shall pay all taxes pertaining to its performance under this Contract.

Section 4. Nonwaiver.

The failure of either party at any time to enforce a provision of this Contract shall in no way constitute a waiver of the provision, nor in any way affect the validity of this Contract or any part hereof, or the right of such party thereafter to enforce each and every provision hereof.

Section 5. Amendment.

A. This Contract shall only be amended, modified or changed by a writing, executed by authorized representatives of the parties, with the same formality as this Contract was executed.
B. For the purposes of any amendment modification or change to the terms and conditions of this Contract, the only authorized representatives of the parties are:

Contractor: Shawn Bisch, Vice President/Chief Financial Officer
(name, title of position)

Billings: City Council or Authorized Designee

C. Any attempt to amend, modify, or change this Contract by either an unauthorized representative or unauthorized means shall be void.

Section 6. Jurisdiction; Choice of Law.

Any civil action rising from this Contract shall be brought in the District Court for the Thirteenth Judicial District of the State of Montana, Billings. The law of the State of Montana shall govern the rights and obligations of the parties under this Contract.

Section 7. Severability.

Any provision of this Contract decreed invalid by a court of competent jurisdiction shall not invalidate the remaining provisions of the Contract.

Section 8. Integration.

This instrument and all appendices and amendments hereto embody the entire agreement of the parties. There are no promises, terms, conditions or obligations other than those contained herein; and this Contract shall supersede all previous communications, representations or agreements, either oral or written, between the parties hereto.

Section 9. Liability.

The Contractor shall indemnify, defend, save, and hold Billings harmless from any and all claims, causes of action, lawsuits, damages, judgments, liabilities, and litigation costs and expenses including reasonable attorneys' fees and costs, arising from any wrongful or negligent act, error or omission of the Contractor or any agent, employee or subcontractor as a result of the Contractor's or any subcontractor's performance pursuant to this Contract.

A. The Contractor shall not indemnify, defend, save and hold Billings harmless from claims, causes of action, lawsuits, damages, judgments, liabilities, and litigation costs and expenses or attorneys' fees and costs arising from wrongful or negligent acts, error or omission solely of Billings occurring during the course of or as a result of the performance of the Contract.
B. Where claims, lawsuits or liability, including attorneys' fees and costs arise from wrongful or negligent act of both Billings and the Contractor, the Contractor shall indemnify, defend, save, and hold Billings harmless from only that portion of claims, causes of action, lawsuits, damages, judgments, liabilities, and litigation costs and expenses including attorneys' fees and costs, which result from the Contractor's or any subcontractor's wrongful or negligent acts occurring as a result from the Contractor's performance pursuant to this Contract.

Billings shall indemnify, defend, save, and hold the Engineer harmless from any and all claims, causes of action, lawsuits, damages, judgments, liabilities, and litigation costs and expenses including reasonable attorneys' fees and costs, arising from any wrongful or negligent act, error or omission of Billings or any agent, employee or subcontractor as a result of Billings' or any subcontractor's performance pursuant to this Contract.

A. Billings shall not indemnify, defend, save and hold the Engineer harmless from claims, causes of action, lawsuits, damages, judgments, liabilities, and litigation costs and expenses or attorneys' fees and costs arising from wrongful or negligent acts, error or omission solely of the Engineer occurring during the course of or as a result of the performance of the Contract.
B. Where claims, lawsuits or liability, including attorneys' fees and costs arise from wrongful or negligent act of both Billings and the Engineer, Billings shall indemnify, defend, save, and hold the Engineer harmless from only that portion of claims, causes of action, lawsuits, damages, judgments, liabilities, and litigation costs and expenses including attorneys' fees and costs, which result from Billings' or any subcontractor's wrongful or negligent acts occurring as a result from Billings' performance pursuant to this Contract.

Section 10. Inspection and Retention of Records.

The Contractor shall, at any time during normal business hours and as often as Billings may deem necessary, make available to Billings, for examination, all of its records with respect to all matters covered by this Contract for a period ending three years after the date the Contractor is to complete performance in accordance with Section 2 of the Special Provisions. Upon request, and within a reasonable time, the Contractor shall submit such other information and reports relating to its activities under this Contract, to Billings, in such form and at such times

as Billings may reasonably require. The Contractor shall permit Billings to audit, examine and make copies of such records, and to make audits of all invoices, materials, payrolls, records of personnel, and other data relating to all matters covered by this Contract. Billings may, at its option, permit the Contractor to submit its records to Billings in lieu of the retention requirements of this Section.

Section 11. Availability of Funds.

Payments under this Contract may require funds from future appropriations. If sufficient funds are not appropriated for payments required under this Contract, this Contract shall terminate without penalty to Billings; and Billings shall not be obligated to make payments under this Contract beyond those which have previously been appropriated.

IN WITNESS WHEREOF, the parties have executed this Contract on the date and at the place shown below.

City of Billings

_____
City Council or Designee

Date:_____

ATTEST:

_____
City Clerk

Date:_____

Contractor

Pioneer Technical Services, Inc.

_____

Name: Shawn Bisch
Title: Vice President/Chief Financial Officer
Date:_____

IRS Tax ID # 81-0474175

APPROVED AS TO FORM:

By_____
BRENT BROOKS, City Attorney

Appendix A

Basic Services of Engineer

Section 1. Engineer's Rights and Duties.

A. To furnish all labor, materials, equipment, supplies, and incidentals necessary to conduct and complete the Engineer's portion of the project as defined in the scope of work and to prepare and deliver to Billings all plans, specifications, bid documents, and other material as designated herein.

B. Ascertain such information as may have a bearing on the work from local units of government, utility companies, and private organizations and shall be authorized to procure information from other authorities besides Billings, but shall keep Billings advised as to the extent of these contacts and the results thereof.

C. Prepare and present such information as may be pertinent and necessary in order for Billings to pass critical judgment on the features of the work. The Engineer shall make changes, amendments or revisions in the detail of the work as may be required by Billings. When alternates are being considered, Billings shall have the right of selection.

D. Engineer's work shall be in accordance with the standards of sound engineering and present City, State, and National standards and policies currently in use.

E. Conform to the requirements of the Montana Code Annotated Title 18 "Public Contracts" and more particularly Sections 18-2-121 and 18-2-122, and all other codes of the State of Montana applicable to providing professional services including codes and standards nationally recognized.

F. The Engineer shall certify with the submission of final plans that the plans are in conformance with applicable sections of Title 69, Chapter 4, Part 5, of the Montana Code Annotated as pertaining to existing utilities.

G. To perform professional services in connection with the project and will serve as Billings' representative in those phases of the project to which this agreement applies.

H. Where Federal funds are involved, the necessary provisions to meet all requirements will be complied with and documents secured and placed in the bidding documents.

I. Submit an estimated progress schedule as to time and costs at the beginning of the work, and monthly progress reports thereafter until complete. The reports will include any problems, potential problems, and delays as foreseen by the Engineer. Reports will be submitted in a timely manner to permit prompt resolution of problems.

J. Contract administration duties will include review of contractor certified payrolls for wage rate compliance. Discrepancies in certified payrolls will be resolved with the Contractor. A signed Engineer's Payroll Check Sheet (included in the Standard Modifications to MPWSS) will be submitted as proof of this review with one copy of each payroll.

K. Name a Task Director who shall be the liaison between Billings and the Engineer. For this project the Task Director designated for the Engineer is Chad Raisland working under the Principal-in-Charge, Shawn Bisch.

Section 2. Billings Rights and Duties.

A. To furnish all labor, materials, equipment, supplies, and incidentals necessary to conduct and complete Billings' portion of the project as designated in the scope of work.

B. Name a Task Director who shall be the liaison between the Engineer and Billings. For this project, the Task Director designated is Will Robbins, working under the City Engineer, Debi Meling.

Section 3. Scope of Work.

The project consists of professional engineering services for the design, bidding, and construction administration for the City of Billings W.O. 18-32 – Landfill Slope Stability. The scope of work includes completing the following tasks: (1) Project Management, (2) Geotechnical Evaluation and Materials Testing, (3) Slope Reinforcing Structure Design, (4) Stormwater Channel Design and Improvements, (5) Road Reconstruction and Widening, (6) Construction Administration including Inspection and Project Survey. Work to be performed under each task is further described below.

Task 1 - Project Management

For this task we will manage all elements of the project and make sure resources are coordinated efficiently. This includes communicating with the City, managing and scheduling the work, and tracking the budget. Our project manager will also periodically submit informal progress reports to the City that show the work progress and costs. We will coordinate all site work schedules and tasks with the appropriate City staff.

Task 2 – Geotechnical Evaluation and Materials Testing

Work under this task includes performing a subsurface geotechnical investigation of the slope, channel, and roadway using a track mounted drill rig. We anticipate advancing a maximum of six (6) boreholes to investigate the slope and four (4) boreholes to evaluate the channel and roadway for geotechnical design purposes. We will subcontract a suitable drill rig capable of negotiating uneven terrain and advancing the test borings. However, due to the project site's steep and broken terrain we may not be able to access the slope and channel without an excavator or dozer to create suitable roads for the drill rig. If this becomes necessary, we would ask the City to provide this equipment and an operator to cut in adequate access roads prior to the drill rig arriving on site. We have assumed maximum borehole depths of 40 feet on the slope. This will vary in response to the depth of the landslide. We will require boreholes that penetrate 20 feet below the bottom of the landslide for all slope boreholes. Road boreholes are anticipated to be a maximum of 20 feet in depth. A cost adjustment will be necessary for boreholes deeper than 40 feet on the slope or 20 feet on the road. We have assumed the City can supply a nearby water source for drilling and mixing of grout. Pioneer will supply the grouting materials. Our scope and fee proposal do not include rock coring and if it becomes necessary a revision in cost will be necessary. Rock coring would occur if bedrock that is resistant to conventional drilling is encountered or correlation of stratigraphy is necessary for proper site evaluation. We propose a sample collection rate of 1 Standard Penetration Test (SPT) split spoon or thin-walled sample every 2.5 feet in each borehole's upper 15 feet followed by a sampling rate of 1 SPT split spoon or thin-walled sample every 5 feet from depths of 15-40 feet.

Drill cuttings and samples will be used to identify lithology changes between samples. An engineer from Pioneer will be on-site full-time during drilling to direct and monitor the drilling and sampling. Pioneer will select materials for index testing to characterize subsurface conditions which may include the following;

- Mechanical Grain Size Analysis with Hydrometer (ASTM D422);
- Atterberg Limits (ASTM D4318);
- Moisture Contents (ASTM D2216);
- Consolidation w/ 2 Time Deflection, 1 Unload (ASTM D2435);
- (3 pts) Consolidated Undrained Triaxial w/ PWP (ASTM D2435);
- Soluble Sulfate Content (MT 232-04/EPA 300.0);
- Corrosivity pH (AASHTO 289);
- Soil Resistivity (AASHTO 288); and,
- Unconfined Compressive Strength (ASTM D5731).

We anticipate the need to install piezometers and possible slope inclinometers as necessary to further evaluate the landslide feature and determine on-site groundwater conditions, which will be critical for proper design consideration of the slope retaining system.

Task 3 – Slope Reinforcing Structure Design

Based on the results of the geotechnical evaluation, Pioneer will develop a design for the slope stabilization and any reinforcing structures or anchors. The design will incorporate slope stability analyses and an evaluation of reinforcing structure types and slope reconfigurations necessary for stabilization of the slope and redesign of the channel. The design is anticipated to include changes in slope configuration, removal of portions of the slope, possible mechanical anchors, and potential stabilizing berms as the design dictates. The road and ditch will be incorporated into this design. Construction drawings and technical specifications will clearly describe the details of the drainage, earthwork, materials, construction, compaction requirements and geometry. If necessary, Pioneer will assist the City with coordinating and submitting design documents to the Montana Department of Environmental Quality (MDEQ). We assume coordination and permitting with the MDEQ will be minimal and the general contractor will be responsible for preparing and administrating a MDEQ Stormwater Pollution Prevention Plan (SWPPP) for the project. Cost estimates will be developed for different design scenarios if necessary and for the final design configuration.

Task 4 – Stormwater Channel Design and Improvements

Building upon the preliminary design described in the Evaluation of Corrective Action Alternatives Final Report, Pioneer will perform hydraulic calculations and modelling, using the flows and channel dimensioning specified in in the 1995 SWMM report. We will refine the channel/road profile and geometry to balance earthwork volumes as part of the design, factoring in the up- and down-slope constraints and the slope reinforcing structure design. The channel lining will be designed to prevent future erosion. Construction drawings and technical specifications will clearly describe the details of the drainage, earthwork, materials, construction and geometry. If necessary, Pioneer will assist the City with coordinating and submitting design documents to the Montana Department of Environmental Quality (MDEQ). We assume coordination and permitting with the MDEQ will be minimal and the general contractor will be responsible for preparing and administrating a MDEQ Stormwater Pollution Prevention Plan

(SWPPP) for the project. Cost estimates will be developed for different design scenarios, if necessary, and for the final design configuration.

This task also includes coordinating with Great West Engineering (Great West) to ensure the stormwater channel design and improvements coincide (e.g. design and schedule) with the channel lining project Great West is completing for the City under a separate Work Order as part of the Cell 3 Closure.

Task 5 – Road Reconstruction and Widening

As part of the overall slope reinforcement and drainage channel realignment/design, Jellison Road will be reconfigured to the necessary width with a berm or barrier along the northern edge of the road to prevent future discharges onto the neighboring Blain Mobile Home Court property. All necessary surfacing and base course will be included in the design, construction drawings and technical specifications. Construction details along with materials and compaction specifications, in coordination with the Yellowstone County Public Works Roadway Standards, will be included. Pioneer will submit applicable permit documents to the Yellowstone County Public Works Department for review and approval. We assume coordination and permitting with the Yellowstone County Public Works Department will be minimal, since Jellision Road is an existing road right-of-way. As with the other parts of the design, cost estimates will be developed for the road work.

Task 6 – Construction Administration including Inspection and Project Survey

Pioneer will assist the City with procuring a Contractor and will perform construction administration including inspection. We will develop a bid package complete with all the necessary bidding documents, construction drawings, and technical specifications for review by the City. Following review and approval of the bid package, Pioneer will assist the City in the bidding process. We will attend a pre-bid meeting, respond to questions from prospective bidders and, if warranted, issue written clarifications and addendums, review bids, provide a recommendation for award to the City, and assist the City in preparing a notice of award to the selected Contractor.

Pioneer will conduct a pre-construction conference to discuss the following:

- Identify representatives attending the meeting.
- Liability insurance certificates.
- Payment and performance bonds.
- Contract documents.
- Identification of subcontractors.
- Communication procedures.
- Utility locates.
- Identify and discuss potential construction conflicts.
- Contractor’s pre-construction documentation requirements.
- Contractor’s project control techniques and reporting requirements.
- Contractor’s planned work hours and schedule.
- Pioneer’s role and responsibilities for oversight.
- Submittal procedures.
- Documentation requirements.
- Traffic control requirements and plans.

- MDEQ SWPPP preparation and administration responsibilities.
- Health and safety issues and responsibilities.
- Pay application process and schedule.

We will prepare pre-construction conference meeting minutes that will become part of the project record.

We will review technical submittals to assure materials proposed by the Contractor meet the requirements of the technical specifications provided in the bid package and complete submittal review forms. Copies of these forms will be forwarded to the City and Contractor.

Prior to construction, we will provide construction staking and establish survey control points with a survey-grade GPS and/or conventional surveying equipment.

During construction, Pioneer will provide construction inspection services to assure the work is being completed according to the construction drawings and technical specifications. We will keep a field logbook to record the Contractor's progress. We will attend construction progress meetings with the City and Contractor during the course of construction. The Contractor's progress, schedule, delivery schedule, and other topics will be discussed and reviewed during each progress meeting.

Pioneer will review the Contractor's request for progress payments and, ultimately, request for final payment. Pioneer will resolve any discrepancies in the request for payment and, once in agreement with the Contractor, will forward a recommendation for payment to the City.

When construction of the project is near completion, Pioneer will schedule and conduct a substantial completion walk-through. During the walk through, a punchlist of work necessary before final completion is granted will be developed. Once the punchlist is completed by the Contractor, we will recommend granting final completion and release of the Contractor's bonds and retainage to the City.

At the close of the project, we will perform an as-built topographic survey and prepare as-built "record" drawings. A final report will be prepared and submitted to the City documenting construction activities to include:

- Description of construction activities.
- Construction quantities.
- Project documentation and schedule.
- Deviations.
- Project Costs.
- As-built "record" drawings.
- Photo documentation of the work.

Appendix B
Methods and Times of Payment

Section 1. Payments for Basic Services.

Billings shall authorize payment to the Engineer for services performed under Appendix A of this Agreement. Partial payment shall be due the Engineer upon receipt of the Engineer's pay estimate, said estimate being proportioned to the work completed by the Engineer.

Partial payment shall be made to the Engineer upon receipt of the Engineer's pay estimate, said estimate being proportioned to the work completed by the Engineer. Billings shall deduct five percent (5%) from each monthly pay estimate. Partial release of retainage may be requested upon completion of milestone tasks listed below. The final payment shall be made only after acceptance of final documents by Billings, and determination that the scope of work has been satisfactorily completed.

A. For services rendered prior to construction, Appendix A, the Engineer shall be paid based upon actual time accrued, but not to exceed the following amounts:

$10,140	Project Management
$41,572	Geotechnical Evaluation and Materials Testing
$11,830	Slope Reinforcing Structure Design
$8,254	Stormwater Channel Design and Improvements Design
$7,492	Road Reconstruction and Widening Design
$30,718	Construction Administration
$110,006	

B. Final payment shall be the above stated basic fee less all previous payments.

Section 2. Payments for Extra Services when Authorized by Billings.

Requests made or conditions identified by interested groups at the agency or public meetings, which are beyond the scope and intent of this study shall be paid for on an hourly basis at the applicable fees in Appendix D.

Section 3. Corrections.

Costs of Billings's work that are required for corrections to the Engineer's work which requires redoing by Billings shall be deducted from any payments due the Engineer, if the Engineer fails to make the required corrections.

Section 4. Fee Increases

For contracts and services that are expected to require more than one (1) year to complete, the above stated basic services payments may be reviewed and adjusted annually by mutual agreement of the parties, based upon documented evidence that the Engineer's costs and hourly rates as shown in Appendix D have increased for all comparable clients.

Appendix C

Additional Services of Engineer

Extra Services of the Engineer will be paid only with written prior authorization by Billings. Any work desired by the City on these task items will be negotiated with the City on a task by task basis:

A. Field and laboratory testing of materials and reports other than those that are specifically outlined in the scope.

B. Requests made or conditions identified by interested groups, which are beyond the scope and intent of this project.

C. Stormwater SWPPP or discharge permit updates.

D. Permit coordination and submittal with Yellowstone County and Montana Department of Environmental Quality, which are beyond the scope of this project (assumed to be minimal).

E. Operations & Maintenance Plan.

F. Additional services not specifically listed in Tasks 1-6 in Appendix A.

Appendix D

Schedule of Professional Fees

Current agreements for engineering services stipulate that the standard hourly rates are subject to review and adjustments. Hourly rates for services effective on the date of this Agreement are included below.

The itemized schedule provided below includes direct labor costs, normal payroll and overhead costs, transportation, furnishing equipment and materials normally required for performance of the work and reasonable profit. Direct project costs not itemized herein shall be paid for at actual cost.

PIONEER
TECHNICAL SERVICES, INC.

PIONEER TECHNICAL SERVICES, INC.
BASIC RATE SHEET
Issued March 31, 2019

CATEGORY	RATE/HOUR
P6: Principal Engineer/Scientist	$150.00
P5: Senior Project Manager	$140.00
P4: Project Manager	$126.00
P3: Senior Engineer/Scientist	$115.00
P2: Project Engineer/Scientist	$106.00
P1: Staff Engineer/Scientist	$96.00
T4: Sr. Designer/Technician	$86.00
T3: Technician II	$78.00
T2: Technician /CAD Operator	$61.00
T1: Administrative /Clerical	$55.00

Overtime:
P (Exempt) Grades: 1 times the hourly labor rate indicated above.
T (Non-Exempt) Grades: 1.5 times the hourly labor rate indicated above.

OTHER DIRECT COSTS

Mileage	Current IRS Rate
Company Copies	$0.07/copy
Travel Expenses	Lodging at cost GSA per diem
Survey Equipment	
Total Survey Station	$80.00/day
Robotic Total Station	$225.00/day
RTK GNSS	$270.00/day
Resource Grade GPS	$45.00/day
Digital Level	$60.00/day
Nuclear Density/Moisture Gauge (< 4 hours)	$33.00/half day
Nuclear Density/Moisture Gauge (> 4 hours)	$55.00/day
X-Ray Fluorescence Instrument (Daily)	$175.00/day
X-Ray Fluorescence Instrument (Monthly)	$3,500.00/month
All Other Direct Expenses	Cost plus 5%

Appendix E

Project Schedule

Based on a notice to proceed by Billings dated no later than August 19, 2019, the targeted completion dates for the Engineer's work through Final Completion of construction for the Phase 3 partial closure shall be:

Submit 60% Design to City for review	November, 2019
Submit 100% Design to City	December, 2019
Advertise for Bids	January, 2020
Begin construction	March, 2020 (weather dependent)
Final Completion	Fall, 2020 (weather dependent)

Delays affecting the completion of the work within the time specified of more than ninety (90) days, not attributable to or caused by the Parties hereto, may be considered as cause for the renegotiation or termination of this Contract.

If the Engineer is behind on this Contract due to no fault of Billings, then the Engineer hereby acknowledges the right of Billings to withhold future Contracts to the Engineer in addition to any other remedy until this Contract is brought back on schedule or otherwise resolved.

Appendix F

Certificate(s) of Insurance

Attach Certificate(s) of Insurance

Consent **1. H.**

Regular City Council Meeting

Meeting Date: 08/12/2019

TITLE: Acceptance of Washington Street Road Easement from Yellowstone County

PRESENTED BY: David Mumford, Public Works Director

Department: Public Works

Presentation: No

PROBLEM/ISSUE STATEMENT

The City County Drain is located in an easement south of the S. Frontage Road. The Washington Street easement is located adjacent to the City/County Drain easement to the east. When the City reconstructed the drain, a permit was needed to locate a transformer on the County's easement. After discussions with the County, it was determined that the City had more use for the easement than the County. Thus, in lieu of a permit, it was decided that it would be more advantageous to both entities to transfer the easement from the County to the City. On July 23, 2019, the Yellowstone Board of County Commissioners voted to approve the transfer of easement. City council must vote to accept the easement before it can be transferred.

ALTERNATIVES ANALYZED

City Council may:

- Approve acceptance of the easement, or;
- Disapprove acceptance of the easement. If the easement is not accepted by the city, the city will need to work with the county to get the necessary permit to use the easement for the improvements to the City/County Drain. Also, any access to the facility will be through the county easement and any future modifications will require county approval.

FINANCIAL IMPACT

There is minimal cost to maintain the additional right of way.

RECOMMENDATION

Staff recommends that City Council accept the transfer of the Washington Street easement from Yellowstone County.

APPROVED BY CITY ADMINISTRATOR

Attachments

County Resolution
Quitclaim deed for easement
Exhibit

YELLOWSTONE COUNTY BOARD OF COUNTY COMMISSIONERS

Resolution No. 19-52

Resolution to Transfer Washington Street Easement to the City of Billings

WHEREAS, pursuant to Section 7-8-101 (1) of the Montana Code Annotated, if it would be in the best interest of the public, a board of county commissioners may transfer an interest in real property to another government agency. To transfer an interest in property to another government entity, a board must pass a resolution of intent to transfer interest in the property, publish notice of intent to transfer interest in the property and pass a resolution to transfer interest in the property.

WHEREAS, Yellowstone County has a right-of-way interest (easement) in a portion of Washington Street located from the South Frontage Road south to the Yellowstone River, legally described as Tracts of land situated in the W ½ of Section 15, T. IS., R.26E., Yellowstone County, Montana, more particularly described as:

> Being the West 60' of Government Lot 3, of said Section 15, also described as being a permanent easement and right-of-way over and across said Section 15, being a 60' in width extending generally from Washington Street to the Yellowstone River, recorded December 2, 1964, under Document No. 743633, on file and of record in the Records of Yellowstone County.

Attached as Exhibit 1 is a map of the right-of-way. At inception, the Washington Street easement served as a route to the Washington Street Bridge. That Bridge has since been removed. The County has no need for the easement as it now only accesses a City park. In addition, the City/County drain runs down the middle of the easement in a portion of the easement the City seeks to acquire in order to construct a check structure in the City/County drain, complete with secure gating and fencing. As the County does not need the easement, transfer of the easement to the City, as opposed to the County granting an encroachment license, quiets each agency's interest in the easement and right-of-way.

WHEREAS, the Yellowstone County Board of County Commissioners believes it would be in the best interest of the public to transfer the Washington Street easement to the City of Billings. The easement has become a burden on the County to maintain the easement, the easement today serves no purpose to the County and the easement is not necessary for the conduct of County business. The City of Billings is receptive of taking control of the easement.

WHEREAS, on July 2, 2019, the Yellowstone County Board of County Commissioners passed a resolution of intent to transfer the County interest in Washington Street to the City of Billings, set a public hearing on the transfer for July 23, 2019, and ordered the Yellowstone County Clerk and Recorder to provide notice of the hearing.

WHEREAS, the Yellowstone County Clerk and Recorder provided notice of the hearing. On July 5, 2019 and on July 12, 2019, the Clerk and Recorder published notice of the hearing in the *Billings Gazette*.

WHEREAS, on July 23, 2019, the Yellowstone County Board of County Commissioners held a public hearing on the proposed transfer of the County interest in Washington Street. The Board received comments on the proposed transfer. The Board considered the comments and determined it would be in the best interest of the public to transfer its interest in Washington Street.

NOW THEREFORE, BE IT RESOLVED,

The Yellowstone County Board of County Commissioners transfers its easement interest to Washington Street to the City of Billings for the promise that the City will maintain the easement. The Board shall execute a quit claim deed.

Passed and adopted this 23rd day of July, 2019

BOARD OF COUNTY COMMISSIONERS
YELLOWSTONE COUNTY, MONTANA

_____
Denis Pitman, Chairman

_____
Donald W. Jones, Member

Attest:

_____
John Ostlund, Member

_____
Jeff Martin
Yellowstone County Clerk and Recorder

Resolution of Intent July 2, 2019
Publication July 5, 2019 & July 12, 2019
Public Hearing/Resolution/Deed July 23, 2019

RETURN TO:
City Clerk
City of Billings
P.O Box 1178
Billings, MT 59103

Quit Claim Deed

For valuable consideration, Yellowstone County, a political subdivision of the State of Montana, through its Board of County Commissioners, conveys and quit claims to the City of Billings, a government entity, all its interest in the property described below that is located in Yellowstone County, Montana:

> Right-of-way easement in a portion of Washington Street located from South Frontage Road South to the Yellowstone River, legally described as Tracts of land situated in the W ½ Section 15, T. IS., R.26E. Yellowstone County, Montana, more particularly described as:
>
> Being the West 60' of Government Lot 3, of said Section 15, also described as being a permanent easement and right-of-way over and across said section 15, being a 60' width extending generally from Washington Street to the Yellowstone River, recorded December 2, 1964, under Document No. 743633, on file and of record in the Records of Yellowstone County.

The Board of County Commissioners authorized the conveyance of the property pursuant to Section 7-8-101(1) of the Montana Code Annotated (2017) at its July 23, 2019 meeting.

Dated this 23rd day of July, 2019.

BOARD OF COUNTY COMMISSIONERS
YELLOWSTONE COUNTY, MONTANA

_____
Denis Pitman, Chairman

_____
Donald W. Jones, Member

Attest:

_____
John Ostlund, Member

_____
Jeff Martin
Yellowstone County Clerk and Recorder

STATE OF MONTANA)
: ss.
County of Yellowstone)

I acknowledge that on _____, 2019, before me, a Notary Public for the State of Montana, personally appeared Denis Pitman, Donald W. Jones and John Ostlund, members of the Yellowstone County Board of County Commissioners, and Jeff Martin, the Yellowstone County Clerk and Recorder, and executed the attached Quit Claim Deed on behalf of Yellowstone County in their official capacity as Board Members and the Clerk and Recorder.

_____
Teri Reitz

Acknowledgment and Acceptance of Conveyance

The Mayor and City Council of the City of Billings acknowledges receipt of this deed and accepts the property interest conveyed through this instrument.

_____
Bill Cole, Mayor

ATTEST:

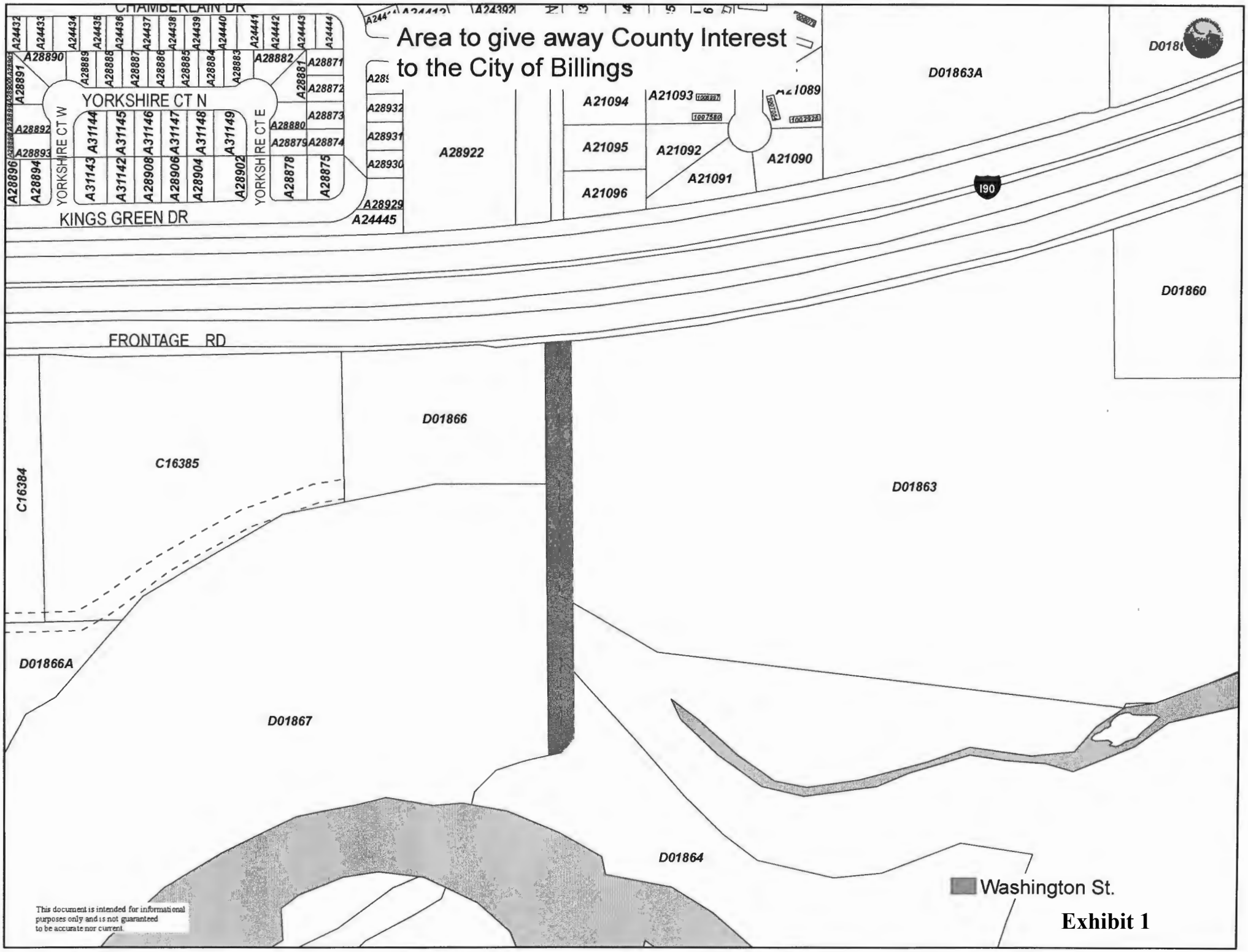
_____
Denise Bohlman
City Clerk of Billings

STATE OF MONTANA)
: ss.
County of Yellowstone)

On this _____ day of _____, 2019, before me, a Notary Public for the State of Montana, personally appeared Bill Cole, as Mayor, and Denise Bohlman, City Clerk of Billings, known to me to be the persons who signed, respectively, and acknowledged to me that they executed the foregoing instrument.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Official Seal the day and year herein above written.

_____
_____
Notary Public for the State of Montana (Notary Seal)
Residing at: _____
My Commission Expires: _____


Area to give away County Interest to the City of Billings
CHAMBERLAIN DR
YORKSHIRE CT N
YORKSHIRE CT W
YORKSHIRE CT E
KINGS GREEN DR
FRONTAGE RD
A28922
A21094
A21093
A21095
A21092
A21091
A21096
A21090
D01863A
D01860
D01866
C16385
C16384
D01863
D01866A
D01867
D01864
190
Washington St.
This document is intended for informational purposes only and is not guaranteed to be accurate nor current.
Exhibit 1

Consent **1. I.**

Regular City Council Meeting

Meeting Date: 08/12/2019

TITLE: SBBURD TIF Funds to Billings Public Schools for Playground Improvements at Orchard Elementary School

PRESENTED BY: Wyeth Friday

Department: Planning & Community Services

Presentation: No

PROBLEM/ISSUE STATEMENT

The South Billings Urban Renewal Association (SBURA) Board of Directors is presenting this recommendation to the City Council for allocating $45,675.80 in tax increment funds (TIF) from the South Billings Boulevard Urban Renewal District (SBBURD) to Orchard Elementary School (Billings School District #2). The funds would pay for replacement of fall protection on the Orchard School playground and for installation of outdoor painted math and literacy games for students and neighborhood children to engage when at the playground (See Application Attached). The property is located at 120 Jackson Street in South Billings. The majority of the funding assistance would go toward the rubber mulch fall protection (@$42,000) with the remainder for the educational playground sidewalk/pavement game markings (@$3,000).

While this project will not generate increment, the improvement to the neighborhood school playground will benefit the school students as well as neighborhood residence that use the school playground after hours. This project is in alignment with South Billings Master Plan to improve recreation and education opportunities and the newly amended South Billings Boulevard Urban Renewal Plan which calls for assisting in funding projects and programs in the District to enhance school playgrounds and athletic fields ..." The City Council adopted the South Billings Boulevard Urban Renewal Plan amendments at its meeting on July 22 on second reading of the ordinance.

The application for TIF funding assistance was recommended for approval by the SBURA Board of Directors at its May 7, 2019 meeting.

ALTERNATIVES ANALYZED

City Council may:

- Approve the SBURA recommendation and allocate the TIF Funds for this project; or
- Disapprove the SBURA recommendation and not allocate the TIF Funds for this project. This project is in alignment with the newly amended South Billings Boulevard Urban Renewal Plan .

FINANCIAL IMPACT

The Development Agreement (See attached) specifies a one-time payment of $45,675.80 to Orchard Elementary School (Billings School District #2) as part of the SBURA TIF Application Program. The funds are payable as reimbursement upon completion of the project. The SBBURD FY20 Budget has about $4.6 million fund balance so there are adequate funds available for payment of this development incentive.

RECOMMENDATION

The South Billings Urban Renewal Association Board of Directors recommends the City Council approve a $45,675.80 grant from the South Billings Boulevard Urban Renewal District tax increment district funds to assist Orchard Elementary School (Billings School District #2) in playground and outdoor education material improvements.

APPROVED BY CITY ADMINISTRATOR

Attachments

Orchard School TIF Application
Draft TIF Funding Agreement with Orchard School

SOUTH BILLINGS URBAN RENEWAL ASSOCIATION

MEMORANDUM

From: Steve Zeier, Zeier Consulting, LLC

To: SBURA Board of Directors

Date: May 7th, 2019

RE: Orchard School Playground Application for TIF Funds

Orchard Elementary School has submitted the attached TIF Assistance Application for your consideration at the May 7th, 2019 meeting of the South Billings Urban Renewal Association Board of Directors.

This project is the installation of rubber mulch fall protection in the main playground area of the school recess area. Currently the pea gravel in place is insufficient fall protection. In addition, a request for educational materials related to sidewalk art is also being requested. This project is in conformance with the South Billings Master Plan as the improvement of neighborhood parks and schools is a recommendation of the plan and an allowed use under Montana Urban Renewal Law.

The TIF application is for a request of $45,675.80 for removal of the current pea gravel fall protection and the installation of the new rubber mulch fall protection material and educational materials.

In summary, this application is being forwarded for the following reasons:

1) The project is consistent with the adopted South Billings Master Plan for the removal of blight located in the South Billings Boulevard Urban Renewal District.
2) The project will provide a greater element of safety for the students via the removal of the pea gravel and installation of rubber mulch.
3) The community benefit component due to the improvements to the property will serve the entire neighborhood and student body.

Please contact me with any questions. I look forward to discussing this at the May 7th board of directors meeting.

Sincerely,

Steve Zeier

enc: TIF Application Packet

SOUTH BILLINGS URBAN RENEWAL ASSOCIATION

City of Billings South Billings Boulevard
Urban Renewal District

T.I.F Assistance Application

For Public/Private Development Projects

Information & Application

Please return to: SBURA, Inc.
c/o Steve Zeier
Billings, MT 59101
(406) 670-6969
steve@zeierconsulting.com

TAX INCREMENT FINANCING APPLICATION PROCESS FOR POTENTIAL PUBLIC INFRASTRUCTURE ASSISTANCE VIA A DEVELOPMENT AGREEMENT AND POSSIBLE ISSUANCE OF TIFD BONDS

IMPORTANT: The material below outlines the Tax Increment Development Agreement application process and the responsibilities of the APLLICANT and the South Billings Urban Renewal Association, Inc. (SBURA). Please review this information carefully before submitting the application or finalizing your development plans.

Failure to receive approval of a completed application **BEFORE** construction begins may affect the Applicant's eligibility for Public Infrastructure Tax Increment Financing assistance from the City of Billings.

INTRODUCTION

The SBURA is responsible for advising Billings City Council for the South Billings Boulevard Tax Increment District (aka SBBURD), pursuant to Montana Urban Renewal Law Title 7 Chapter 15 part 42 Montana Code Annotated, (MCA) "Urban Renewal." Tax Increment Financing (TIF) is an important element of the program as it provides a means to complete public urban renewal activities that assist and enhance private development opportunities within the district. A TIF program operates by first establishing a base year taxable value for all properties within the urban renewal district. Property taxes continue to be paid to all taxing jurisdictions on the basis of the base year valuation. All increases in property taxes above this base valuation due to new development or reappraisals are assigned to the TIF District. They are then used for district revitalization activities.

The SBURA offers this tax increment financing assistance consideration for **public infrastructure** (See Schedule "A" attached) components of projects developed within the boundaries of the South Billings Boulevard TIFD.

TAX INCREMENT FINANCING ASSISTANCE PARAMETERS

Each project is unique. Funding availability depends upon the number of years remaining in the district, with or without TIFD Bond extensions beyond the initial 15 year lifetime of the TIFD. TIF assistance with **public infrastructure** shall be based upon criteria outlined in the Criteria for Review section. The amount of assistance is determined by the comparison of two calculations: 1) The amount of incremental revenue generated by the project and 2) The amount of the project that is considered an eligible expense under MCA 7-15-4288. **The assistance provided cannot exceed 45% of the total tax increment generated by the project over the remaining years left in the life of the TIFD. The TIFD was established in 2008.** Please note that property acquisition costs are *not* to be included in the calculations; *only* property improvements are to be considered. Property improvements are defined as all project costs excluding property acquisition. Generally, TIF assistance may be awarded to the eligible PUBLIC PORTION (Schedule "A") of projects meeting the criteria and approval processes as described herein, subject to availability of funds.

ELIGIBLE ACTIVITIES

As specified by Title 7 Chapter 15 Part 4288 Montana Code Annotated, TIF funds may be used to complete certain urban renewal activities. Pursuant to this statute, the SBURA will review applications for assistance to projects eligible under the following guidelines. Each application is evaluated on a case by case basis under these guidelines. The SBURA will place special emphasis on those projects that implement the SOUTH BILLINGS BOULEVARD URBAN RENEWAL MASTER PLAN[1], particularly mixed-use developments.

APPLICATION PROCESS AND TIMELINE

Anyone seeking TIF assistance from the SBURA must submit a written application for each TIF-assisted project. The following procedure has been developed to expedite the review of TIF funding requests.

1. Initial Contact. Contact the SBURA Representative, Steve Zeier at 406-670-6969 or via email at steve@zeierconsulting.com, to discuss the project and determine preliminary eligibility for TIF assistance.

[1] Adopted by Billings City Council, 2/27/2012 and by the Board of County Commissioners, 4/24/2012.

2. Prepare a Written Application. The Applicant must prepare a written application for each project assistance request. For all TIF requests, the Applicant must complete a "Developer's Statement of Qualification and Financial Responsibility" which includes submittal of personal financial statements.

3. SBURA Staff Review. Upon submittal of all necessary information, SBURA staff will review the project and the need for funding. At any point in the review process the staff may request more information of the Applicant or solicit comment on the project from other public agencies. Items included in personal financial statements will not be subject to public review or presentation to or comment by other public entities.

4. SBURA Board Review. The SBURA Board will review the application and staff recommendations. The Board reserves the right to seek additional project review from other public agencies. The Board will issue preliminary approval/disapproval of the assistance request or any part thereof and will make a recommendation to the City Council.

5. City Council Review. Projects receiving approval by the SBURA Board will be forwarded to the Billings City Council through the City of Billings Planning and Community Services Department for final approval and consideration of a Development Agreement that will clearly describe the public investment required to be applied towards public infrastructure and/or development improvements within the public right of way. City Council approval is required before the City will enter a Development Agreement with the Applicant.

6. Development Agreement. The City and the Applicant must execute a mutual agreeable legally binding Development Agreement which establishes the terms and conditions of TIF assistance. Sample Development Agreements are available at the City/County Planning Division office for reference. The Development Agreement may include, but is not limited to, the following:

    - Complete architectural design specifications and site plan
    - Time frame for project development, construction and completion
    - Specifications for release of funds related to public infrastructure
    - Cash flow and pro forma statements for a minimum of five years of the development
    - Terms and conditions of the various financings
    - Commitment letters and loan documents related to the various financings
    - Ownership of completed development
    - Events of default; remedies
    - Zoning approval
    - Tenant commitments
    - Non-liability of city officials
    - Cause for termination

7. Timing. Following the above process for approval, the Applicant can expect a minimum of 60 days between submitting an application to the SBURA and potentially receiving a decision from the City Council.

COMMITMENT OF FUNDS

Upon City Council approval of a project, the approved funds will be budgeted. Budgeted funds will be encumbered for a grace period of 180 days, by which time construction must have commenced. Commencement of construction means the date on which the first building permit is issued. Projects that have not commenced construction within 180 days are at risk for losing the committed funds.

Funds will be released as specified by the Development Agreement. Depending on the nature of each individual project, funds may be released as a lump sum payment or multiple payments made over subsequent fiscal years. The Development Agreement will specify the payment terms. Funds may be released according to one of the following methods.

1. Release of funds following project completion. Funds will be released upon the project's receipt of a Certificate of Occupancy from the City of Billings' Building Division. If necessary, the City will encumber funds for additional fiscal years to accommodate construction schedules.

2. Release of funds over a multi-year repayment schedule. Prior to a project receiving a TIF assistance payment, a Certificate of Occupancy shall be provided to the project by the City of Billings Building Division. Subject to payment amounts and funding availability, multiple payments may be required. TIF assistance payments may be made according to an agreed upon payment schedule. This schedule will be contained within the Development Agreement.

Funds will be release only if the project is developed and constructed essentially as presented in the Development Agreement.

SOUTH BILLINGS BOULEVARD TAX INCREMENT FINANCING (TIF) ASSISTANCE APPLICATION

Project Name: Safe and Engaging Playground Date Submitted: February 20, 2019

APPLICANT INFORMATION

1. Name: Melissa Soucy, Assistant Principal and Orchard PTA

2. Address: 120 Jackson Ave
3. Telephone Number: 406-281-6686

PROJECT INFORMATION

1. Building Address: 120 Jackson Ave, Billings, Montana 59101

2. Legal Description:

3. Ownership: Billings Public Schools/Taxpayers of Billings

4. Address: 415 N. 30th, Billings, MT 59101

5. If property is not owned by the Applicant, list leasehold interests (Attach evidentiary materials.)

   Lessor's Address: N/A

6. Existing/Proposed Businesses: n/a

7. Business Description: Public Elementary School

8. Employment: Existing FTE jobs- Teachers, Counselors, Librarians, Custodians, Administrators, Secretary, Para Professionals and food service

9. New Permanent FTE jobs created by project 0 Construction FTE jobs: 120 hours Billings Schools Facility Crew

10. Architectural Firm: n/a
    Address: _____

    Representative: _____

Description of Project: (Attach narrative explanation.)

Orchard Elementary is home to 350+ students and 40+ staff that work collaboratively to educate and empower our youth for tomorrow's future. Our playgrounds are in need of a few critical safety updates and educational and engaging hands on and interactive activities and additions. Our playgrounds are currently covered in small pea gravel. The pea gravel overflows to our sidewalk boarders and creates a very slick surface for students and surrounding community members who utilize the playground on a day-to-day basis. We have many students who trip and fall daily while working their way out of the playground area. The small rocks make their way into the building spreading rocks all over classrooms, hallways and entrance areas, making it very hard to manage and keep outside. The playground is utilized daily, not only by students who attend the school, but by neighbors and families who live near the school as. It is a beautiful area that is home to many hours of playtime and community engagement daily. We would like to purchase rubber mulch to replace the pea gravel and create a safer and more manageable play area for our students and community.

We also see a great need to expand the playground sidewalks and concrete areas to create outdoor engaging lessons and exposure to educational math and literacy games and graphics. Students and youth in our neighborhood do not get exposed enough to literacy and math concepts before they begin school. These sidewalk games and graphics would allow them to begin to see and utilize things such as 100's charts, alphabet courses and number puzzles when they visit the playground. We would also love our classroom teachers to be able to use our grounds as a universal outdoor classroom when appropriate as well. The games would allow entire classrooms and grade levels to participate in outdoor learning as well and expose our young visitors to critical learning concepts that they might not otherwise be exposed to before school.

9. Rehabilitation/construction plans: (Attach schematics, site and landscaping plans.)

10. Project Schedule: We would order the materials immediately upon approval of the project and have the intent to have all rubber mulch replaced by the beginning of the 2019-2020 school year. We would also make sure our concrete games and graphics are painted by the end of the school year as well.

CRITERIA FOR REVIEW

Materials contained in TIF Assistance applications are used to assess the merits of projects in relation to the goals and objectives of the South Billings Urban Renewal Master Plan in relation to other district development and urban renewal projects. Projects will be evaluated based on the following criteria. Please provide an explanation and supporting documentation for how the project addresses each criterion.

1. Relevance to the South Billings Urban Renewal Master Plan – Documentation of the project's consistency with the goals in the Master Plan.

2. Economic Stimulus – The amount of economic activity to be generated by the, as well as the leverage ratio of public to private investment. Applications should contain credible, measurable information substantiating Applicant's claims of economic stimulus.

3. Tax Generation – The increase in taxable value due to new construction/rehabilitation as estimated by the County Assessor's office.

4. Employment Generation – Total employment generated by the project assessed in terms of new permanent and part-time jobs, and construction jobs.

5. Elimination of Blight – The project's direct and indirect impact on the physical and fiscal condition within the District.

6. Special or Unique Opportunities – The extent to which the project represents a unique opportunity, meets a special need, or addresses community goals. The provision of public space or workforce housing are examples of special and unique opportunities.

7. Impact Assessment – The extent of both positive and negative environmental impacts, appropriateness of the project design, and impact on existing businesses or residents.

8. Financial Assistance – Other forms of financing available to the Applicant i.e. lender participation and state and federal grant monies,

9. Project Feasibility – Demonstration of market demand for the project as contained primarily on the pro forma and financing commitments.

10. Developer's Ability to Perform – Applicant's capability to undertake the relative complexities of the project based on past performance on similar or comparable projects.

11. Timely Completion – The feasibility of completing the project according to the Applicant's project schedule.

12. Payment of Taxes – All property taxes, special improvement district assessments, and other assessments on the project property must be paid at the time of application.

PROJECT COSTS

Land and Site Improvements (Itemized)

1. Equity in Land and Buildings	$_____
2. Rubber Mulch(7,709.80sq. ft)	$__39.054.20_____
3. Learning Stencils and supplies	$ 3,000.00
4. Work	$ $3621.60.
Subtotal	$ 45, 675.80

Construction/Rehabilitation Costs (Use general construction trade divisions)

1.	$_____
2.	$ _____
3.	$ _____
4.	$ _____
5.	$ _____
6.	$ _____
7.	$ _____
8.	$ _____
Subtotal	$ _____

Fees

1. Architectural design/Supervision	$ _____

2. Permits _____ $ _____

3. Other fees _____ $ _____

Subtotal $ _____

Total Project Development Costs $ 45,675.80

PROJECT FINANCING

Please complete Sources of Funds detail and summarize below.

Developer Equity

Cash Invested $ _____

Land & Buildings $ _____

Other (Specify) _____ $ _____

_____ $ _____

Subtotal $ _____

Lender Commitments (Attach evidence i.e. Letters of Credit or other documentation.)

Lender	Loan Amount	Interest	Term	Payment/Period
_____	$ _____	_____%	____yrs	$ _____/Month
_____	$ _____	_____%	____yrs	$ _____/Month

Total Loan Amount $_____

TIF Request for improvements within the Public Right of Way

Eligible Improvements (See Schedule "A")

$ _____

$ _____

$ _____

$ _____

Subtotal $ _____

Sources of Funds Summary (Post totals from above.)

Developer Equity $ _____

Lender Commitments $ _____

TIF Request $ 45,675.80

Other Funds (Specify) _____ $ _____

Total Project Financing $ 45,675.80

DEVELOPER STATEMENT OF QUALIFICATIONS AND FINANCIAL RESPONSIBILITY

Applicant

1. Name: Orchard School

   Address: 120 Jackson St

2. If the applicant is not an individual doing business under his/her own name, the applicant has the status indicated below and is organized or operating under the laws of _____.

3. The applicant is:

   _____ A corporation.

   _____ A nonprofit or charitable institution or corporation

   _____ A partnership known as _____

_____X____ Other (explain): __School District_____

Date of organization: _____

4. Names, address, title of position (if any), and nature and extent of the interest of the officers and principal members, principal shareholders, investors, or partners of the applicant.

Name and Address	Nature and Extent of Interest
_____	_____
_____	_____
_____	_____
_____	_____

Financial Condition

1. Provide a current financial statement for each private entity involved in the project. Documentation of financial capacity may include net worth statements, balance sheets, or profit and loss statements.

2. Has the applicant or any individual or entity affiliated with the development of this project been adjudged bankrupt, either voluntary or involuntary, within the past ten years?
   No _____ Yes _____ If yes, give date, place, and under what name:

   _____

3. Has the applicant or any individual or entity affiliated with the development of this project been indicted for or convicted of any felony within the past ten years:
   No _____ Yes _____ If yes, give date, charge, place, court and action taken for each case.

   _____

   _____

CONSTRUCTION CONTRACTOR

1. Identify the construction contractor or builder who will undertake this project.

   Name: _____

   Address: _____

2. Has such contractor of builder ever failed to qualify as a responsible bidder, refused to enter into a contract after an award has been made, or failed to complete a construction or development contract within the last ten years?
   No _____ Yes _____ If yes, explain.

   _____

CERTIFICATION

I (we), _____ (please print), certify that the statements and estimates within this Application as well as any and all documentation submitted as attachments to this Application or under separate cover are true and correct to the best of my (our) knowledge and belief.

Signature _____ Signature _____

Title _____ Title _____

Address _____ Address _____

_____ _____

Date _____ Date _____

CERTIFICATION

I (we), _____ _____ (please print), certify that the statements and estimates within this Application as well as any and all documentation submitted as attachments to this Application or under separate cover are true and correct to the best of my (our) knowledge and belief.

Signature _____ Signature _____

Title _____ Title _____

Address _____ Address _____

_____ _____

Date _____ Date _____

SCHEDULE “A”
EXAMPLES OF ELIGIBLE PUBLIC PORTION PROJECTS OF INFRASTRUCTURE
COMPLETE LIST FOUND IN MONTNA CODE ANNOTATED 7-15-4288

Purchase of Site for a Public use

Demolition and Abatement

Sidewalks, Curbs, Gutters, Drive Approaches

Public Utilities such as Water, Sewer, and Storm Drain

Street Surface Improvements

Crosswalks

Landscaping, Green Space, and Improvement of Pedestrian Areas

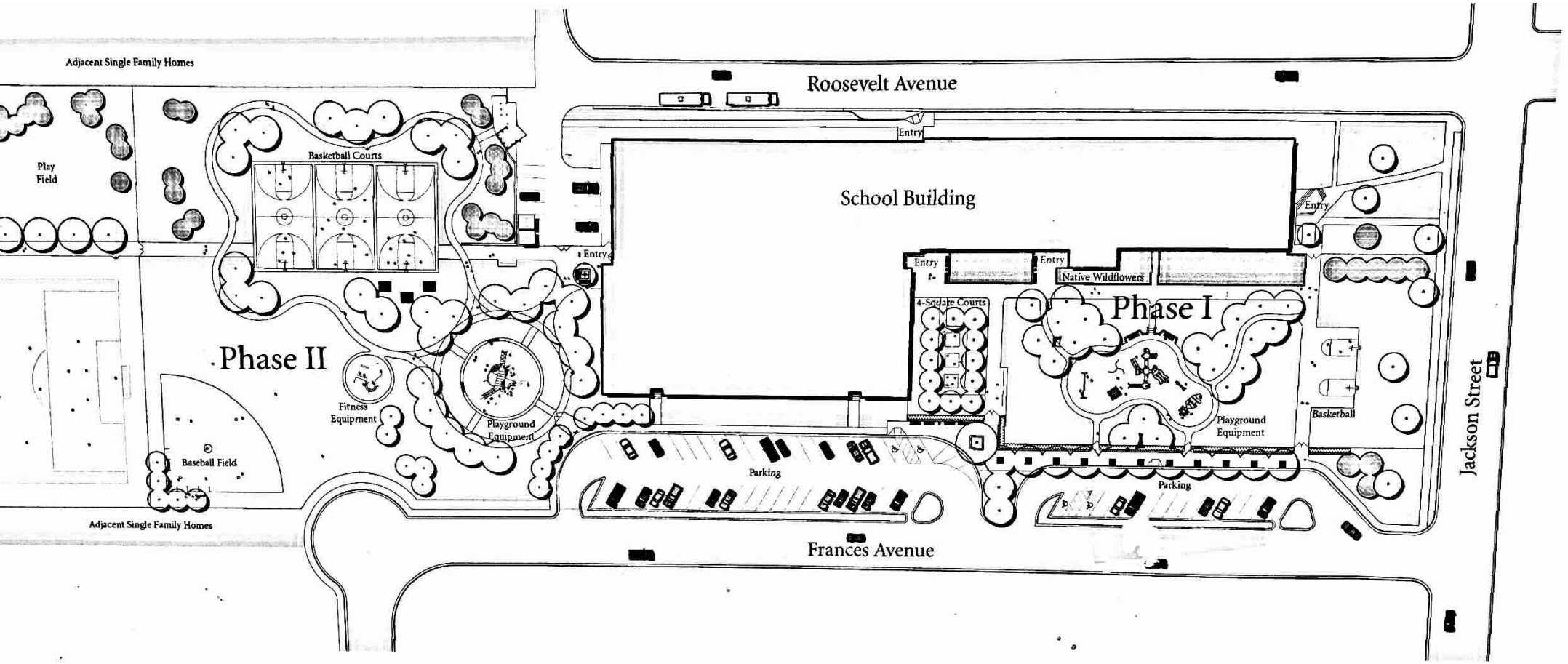
Historical Restorations

Off Street Parking

Pollution Reduction

Private Utilities such as Electrical, Natural Gas, Telecommunication Lines

Area	Sq. Ft					Store	Cost		Store	Cost
Primary Playground	3,809.80					American Floor Mats	$39,054.20		AAA State of Play	$24,397.50
Intermediate Large	2,900									
Intermediate Small	1,000									
Total Square Feet	7,709.80									
BPS Labor to remove old and replace new	$3621.60.					Labor	$3621.60.		Labor	$3621.60.
							$39,054.20			$24,397.50
Stencil Package	$2,500.00					Stencils	$2,500.00		Stencils	$2,500.00
						Total Project	$45,175.90		Total Project	$30,519.10



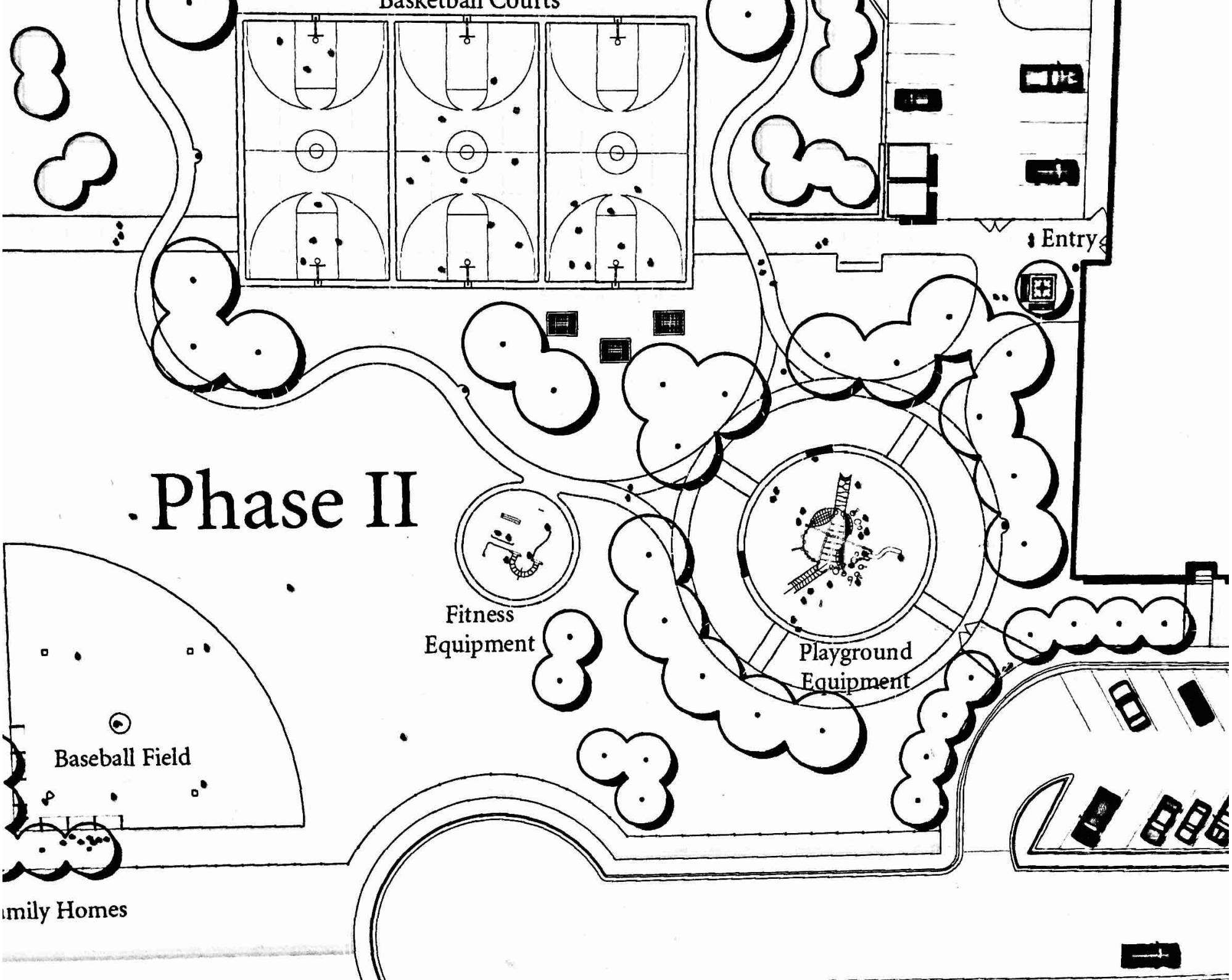
Master Plan

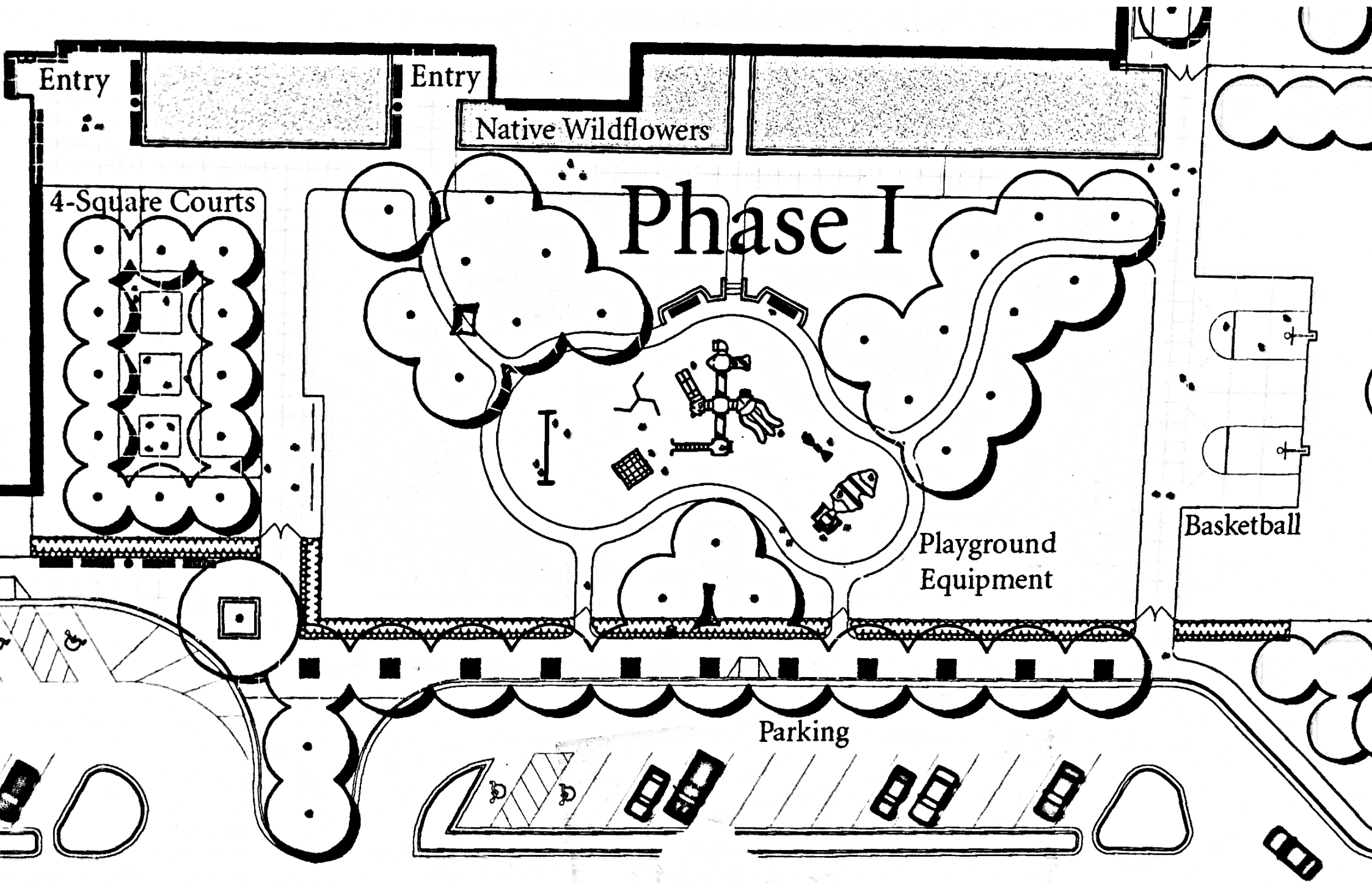
Orchard Elementary School Playground
School District #2

Billings, Montana

mple

Playground Planning and


Basketball Courts
Entry
Phase II
Fitness
Equipment
Playground
Equipment
Baseball Field
mily Homes


Entry
Entry
Native Wildflowers
4-Square Courts
Phase I
Playground
Equipment
Basketball
Parking

venue

DEVELOPMENT AGREEMENT

THIS DEVELOPMENT AGREEMENT (the "Agreement") - dated as of this ____, day of _____, 2019, is entered into by and between **Orchard Elementary School (Billings Public Schools)** with an address of 120 Jackson St, Billings, MT 59101, the **City of Billings (the "City"), a** municipal corporation with an address of 210 North 27th Street Billings, MT 59103, and **South Billings Urban Renewal Association, Inc. (SBURA),** a 501(c)(6) non-profit organization with an address of 430 S. Billings Blvd (collectively, the "Parties").

WITNESSETH:

WHEREAS, pursuant to City of Billings Ordinance No. 08-5462 (the "Ordinance") the City has created the South Billings Boulevard Urban Renewal District (the "Urban Renewal District") which contains a tax increment provision;

WHEREAS, Orchard Elementary School plans to improve certain property located within the Urban Renewal District, more particularly described in the Orchard Elementary School Playground Project TIF Application Packet (the "Project") and has provided the Urban Renewal District with a schedule of improvements.

WHEREAS, the City requires certain details and specification of the rights, duties, obligations and responsibilities which exist in connection with the construction of certain public improvements. This project is the installation of rubber mulch fall protection in the main playground area of the school recess area. Currently the pea gravel in place is insufficient fall protection. In addition, a request for educational materials related to sidewalk art is also being requested. This project is in conformance with the South Billings Master Plan as the improvement of neighborhood parks and schools is a recommendation of the plan and an allowed use under Montana Urban Renewal Law.

The project includes all labor, material costs, and any other costs associated with the construction and installation thereof, as more particularly set forth in the Orchard Elementary School Playground Project TIF Application Packet attached hereto and made a part hereof (hereafter the "Public Improvements");

WHEREAS, pursuant to the Ordinance, the City has determined that the Public Improvements to be constructed therewith are Urban Renewal Projects as defined in MCA 7-15-4288 and that such improvements are eligible for tax increment financing;

WHEREAS, the SBURA board of Directors has voted at its May 7th, 2019 board meeting to recommend funding the Orchard Elementary School Project TIF application for a certain amount, pursuant to the terms of Memorandum of Understanding approved by the City May 13, 2019 establishing the roles of the parties.

NOW THEREFORE, for good and valuable consideration, the Parties hereto hereby agree, covenant and represent as follows:

Section 1. Development of the Project.

1.A. The SBURA has prepared an application packet titled "Orchard Elementary School Project TIF Application Packet" which details the elements of the project. Orchard Elementary School represents that as expeditiously as possible, Orchard Elementary School shall undertake performance and construction of the Project. These improvements are projected to be substantially complete prior to, or during, the 2019-2020 school year. .

1.B. Orchard Elementary School shall obtain the necessary approval from the City for all construction relating to the Project. Orchard Elementary School shall perform and construct or have performed and construct all improvements in accordance with City ordinances and any other applicable local, state and/or federal laws or regulations. Orchard Elementary School acknowledges that the Project is subject to applicable permit fees in place at the time a demolition, building, or fencing permit is secured, or applied for, as to the Project or any portion thereof.

Section 2. Reimbursements. Consistent with the Parties' desire that South Billings Tax Increment Revenue, specific to this Project, be used to reimburse Orchard Elementary School for the costs of Public Improvements and public benefit, the City agrees to allocate up to and not to exceed $45,675.80. It is understood that at no time shall Orchard Elementary School be reimbursed for more than the portion of the cost of the total agreed upon qualified public improvements. The cost of said Public Improvements shall be subject to Audit by the City. The reimbursement will be made by the City to Orchard Elementary School with a lump sum payable after the project is completed and any final inspections are performed.

Section 3. Obligation of the City. The City intends to refund a portion of the costs for Public Improvements as set forth above to Orchard Elementary School, using South Billings Boulevard Urban Renewal District tax increment dollars that have been collected by the City of Billings

Section 4. Entire Agreement. This Agreement supersedes all prior written or oral understandings or negotiations that the Parties may have undertaken and constitutes the entire agreement between the Parties.

Section 5. Governing Law. This Agreement shall be governed by and construed in accordance with the applicable laws of the State of Montana. Venue shall be in Yellowstone County, Montana.

Section 6. Construction. If any provision of this Agreement is found to be invalid to any extent, the remainder of this Agreement shall not be affected thereby, and any such provision of the Agreement shall be valid and enforceable to the fullest extent permitted by law.

Section 7. Successors and Assigns. The stipulations and agreements of this Agreement shall be binding upon the Parties' successors and assigns.

Section 8. Notices. Any notice, demand or request under this Agreement shall be delivered in person or sent via U.S. Certified Mail, postage prepaid, to the Parties at the following addresses:

City of Billings
2825 3rd Avenue North, 4th Floor
Billings, MT 59101
Attn: Wyeth Friday

Orchard Elementary School
505 Orchard Ln
Billings, MT 59101
Attn: Melissa Soucy

South Billings Urban Renewal Association, Inc.
430 S Billings Blvd
Billings, MT 59101
Attn: Scott Hanser

Section 9. Attorney Fees. If it becomes necessary for any party to this Agreement to retain an attorney to enforce any of the terms or conditions of this Agreement, or to give any notice required herein, then the prevailing party shall be entitled to recover from the other party its' reasonable attorney fees and costs.

Section 10. Amendments. Amendments or modifications to this Agreement or any provisions herein shall be made in writing by the party requesting the change and upon written acceptance and execution by all parties shall become a part of this Agreement.

Section 11. Force Majeure. For the purposes of this Agreement "Force Majeure" shall mean any act of God, fire, earth movement, flood, explosion, action of the elements, war,

invasion insurrection, acts of terrorism, riot, mob violence, sabotage, inability to procure general shortage of labor, equipment, facilities, materials or supplies in the open market, failure of transportation, strikes, lockouts, action of labor unions (unless provoked in bad faith violation of any labor laws by the party claiming its obligation or undertaking was prevented or delayed), condemnation, requisition, laws, orders of governmental or civil or military or naval authorities, or any other cause, similar to the foregoing, not within the control of such party, provided, however, Force Majeure, shall not include lack of funds or inability of obtain financing. During any time period in which an element of Force Majeure may exist, the Parties hereto are excused as to any performance substantially affected thereby.

Section 12. Parties to this Agreement. The only parties to this Agreement are Orchard Elementary School, the City, and SBURA, Inc. This Agreement establishes a right of reimbursement for the cost of Public Improvements paid by Orchard Elementary School and the City shall honor that obligation as set forth herein.

IN WITNESS WHEREOF, the Parties have set their hands and seals the day and year first above written.

CITY OF BILLINGS

By:_____
Mayor

Attest:_____
City Clerk

STATE OF MONTANA)
:ss
County of Yellowstone)

This instrument was acknowledged before me on the ___ day of _____, 2019, by_____ and _____, respectively as Mayor and City Clerk or of the City of Billings.

Sign:_____
Print Name:_____
SEAL Notary Public for the State of Montana
Residing at Billings, MT
My Commission expires:_____

ORCHARD ELEMENTARY SCHOOL

By:_____
Its: Assistant Principal

STATE OF MONTANA)
:ss
County of Yellowstone)

This instrument was acknowledged before me on the ___ day of _____, 2019, by_____ , the _____, of Orchard Elementary School

Sign:_____
Print Name:_____
SEAL Notary Public for the State of Montana
Residing at Billings, MT
My Commission expires:_____

SOUTH BILLINGS URBAN RENEWAL ASSOCIATION.

By:_____
Its: President

STATE OF MONTANA)
:ss
County of Yellowstone)

This instrument was acknowledged before me on the ___ day of _____, 2019 ,by_____ , the _____, of South Billings Urban Renewal Association.

Sign:_____
Print Name:_____
SEAL Notary Public for the State of Montana
Residing at Billings, MT
My Commission expires:_____

Consent **1. J.**

Regular City Council Meeting

Meeting Date: 08/12/2019

TITLE: 2020 Draft Unified Planning Work Program (UPWP)

PRESENTED BY: Scott Walker

Department: Planning & Community Services

Presentation: No

PROBLEM/ISSUE STATEMENT

The City-County Planning Division is presenting the 2020 Unified Planning Work Program (UPWP) for the Billings Metropolitan Planning Organization (MPO) for Billings City Council review and recommendation to the Billings Policy Coordinating Committee (PCC). The UPWP is primarily for the purpose of programming the federal dollars that Billings receives from the Federal Highway Administration (FHWA) for transportation planning and the Federal Transit Administration (FTA) for transit (MET) planning. These funds are passed through the Montana Department of Transportation (MDT). All transportation planning activities are included in the UPWP so that it represents a comprehensive document for the urban transportation planning program. This UPWP proposes planning activities for Federal Fiscal Year 2020, which runs from October 1, 2019, through September 30, 2020. This UPWP corresponds directly with the Planning Division's annual work plan. The significant changes in this year's program include traffic counter replacement, Downtown Traffic Circulation Public Participation Exercise, a North Bypass Corridor Study, a 5th Avenue Corridor Feasibility Study and a Bike/Scooter Share Impact Study. The Transit section is Chapter II of the UPWP. The document is consistent with past programs in its content and format.

ALTERNATIVES ANALYZED

The City Council may:

- Accept the program (recommended) and instruct PCC Designee Mayor Cole to give a positive recommendation to PCC; or Make amendments to the program document and instruct Mayor Cole to give a positive recommendation with amendments to PCC; or
- Reject the program and instruct Mayor Cole to give a negative recommendation to PCC. Rejection of the UPWP would mean a significant reduction in funding to complete planning activities in Billings and Yellowstone County, and would affect staff, resources, future transportation planning processes and programs. The PCC meeting is scheduled for August 20th.

FINANCIAL IMPACT

Approval of the 2020 UPWP allows the City to access Federal funds for transportation planning in the community. Federal and local funds are combined to provide most of the planning work done by the Planning Division for the City and the County. If the UPWP is not approved, there would be a significant loss of resources for community planning and the community's ability to manage transportation planning projects and programs would be severely limited. The breakdown of funding sources for the FY 2020 UPWP is estimated below:

$240,000	Planning Dept. Fee Revenue (City of Billings)
$57,000	Planning Dept. Fee Revenue (Yellowstone County)
$490,000	Yellowstone County Planning Levy
$1,872,085	Federal Planning (PL) Allocation
$2,659,085	Total Program Funding (UPWP)

RECOMMENDATION

The Technical Advisory Committee recommends the Billings City Council approve the 2020 UPWP and instruct Mayor Cole to carry the recommendation to the PCC meeting on August 20th.

APPROVED BY CITY ADMINISTRATOR

Attachments

Draft 2020 UPWP

Billings Urban Area

Unified Planning Work Program

(UPWP)

Federal Fiscal Year

DRAFT

2020

Prepared By:

Billings/Yellowstone County Planning Division
2825 3rd Avenue North, 4th Floor
Billings, Montana 59101

In Cooperation With:

Montana Department of Transportation
Federal Highway Administration
Federal Transit Administration

UNIFIED PLANNING WORK PROGRAM

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INTRODUCTION

The Billings Urban Area planning process is organized and conducted in a cooperative, coordinated, and comprehensive manner. The Yellowstone County Board of Planning, as the designated Metropolitan Planning Organization (MPO), is charged with the responsibility of administering the planning process. Under federal regulations, an MPO must be established for urban areas with populations greater than 50,000 in order to receive federal funds for construction projects and transportation planning. This document, the Billings Urban Area Unified Planning Work Program (UPWP), and a companion document, the Prospectus, is the foundation upon which the planning process is based.

The UPWP is developed each year, and once adopted and approved by FHWA and FTA, is in effect from October 1 to September 30. The UPWP contains a task by task discussion of projects, which are to be undertaken during the program year. It also contains appropriate funding information, staffing information, and a schedule for each project. The UPWP undergoes a comprehensive review at the local, state, and federal levels each year.

This year, Federal Fiscal Year 2020, the format for work program activities conforms to Federal Transit Administration (FTA) Circular 8100.1C, specifically Chapter IV. The Montana Department of Transportation and the Yellowstone County Board of Planning have mutually agreed upon use of this format.

The UPWP is a detailed description of projects, which occur on a routine basis. Once adopted, the document is only amended if there is a change in the planning process. The UPWP also contains information pertaining to the organization of the planning process, agencies involved, and agreements between agencies involved in the process.

Cost overrun guidelines have been established by the Montana Department of Transportation, and agreed to by the Yellowstone County Board of Planning. Those guidelines will determine the allowable overruns for any work program element. Overruns that surpass those outlined in the guidelines will require a UPWP amendment.

This document includes two chapters, Highway and Transit. Each chapter contains individual work elements. These work elements describe work the planning and transit staff will undertake in the program year as well as work accomplished in the past year. Also included is a breakdown of funding sources which include, Planning (PL) funds and Local (City & County) funds which are used to provide funding for non PL eligible activities. Priorities this year include implementing the 2018 Long Range Transportation Plan, the 2018 Public Participation Plan, the MPO TransCad Model, continuing work on the Downtown Area Traffic Circulation and Safety Study, and other projects.

DATES OF LOCAL APPROVAL

TAC –7/18/19

PLANNING BOARD –8/13/19

COUNTY COMMISSION –7/30/19

CITY COUNCIL –8/12/19

PCC –8/20/19

CHAPTER I

YELLOWSTONE COUNTY BOARD OF PLANNING

SECTION I UNIFIED PLANNING WORK PROGRAM

41.11.100 PROGRAM SUPPORT & ADMINISTRATION

100 PROGRAM ADMINISTRATION (4301)

OBJECTIVE

- To administer the area-wide planning process.
- To support the Board of Planning and other Boards, Commissions, and the City Council and County Commissioners in decision-making activities in the planning process.
- To engage in administrative and financial actions related to identified planning activities and to prioritize those activities.
- To enhance staff skills and maintain staff exposure to the "state-of-the-art" in planning practice and computer software.
- To maintain contact with, provide input to, and receive feedback from various local, state and federal agencies, committees and groups during the planning process.

ACCOMPLISHMENTS - FISCAL YEAR 2019

Conformance with federal, state, and local administrative and regulatory requirements, as well as maintenance of planning operations was achieved for FY19.

Members of the planning staff attended various professional meetings, workshops, and conferences at which planning, transportation, transit, bicycle/pedestrian and related topics were presented and discussed.

Specifically, the City-County Planning Division (Planning Division) and members of other local, state and federal departments and agencies actively participated in a diverse set of local meetings, including the Billings Technical Advisory Committee (TAC), Policy Coordinating Committee (PCC), Billings & Yellowstone County Zoning Commissions and Boards of Adjustment, Board of Planning, City Annexation Committee, City Development Process Review Committee, Community Development Board, Traffic Control Board, Bicycle and Pedestrian Advisory Committee, Historic Preservation Board and others. Grant writing for the Division was completed under this work element. The coordination and administration of the TA Program applications and local approvals are administered through this work element.

Planning staff received updates in computer software programs for the geographic information system and its application to mapping data layers such as streets, land use, address, ownerships and environmental data. This year, GIS staff has included the TAZ information to the Planning layers. This allows staff to identify individual TAZ's and the associated data. Staff regularly utilizes an application tracking and project management software system that integrates the existing City building permit, finance and land management software, as well as coordinated subdivision and development project reviews across City and County departments. Staff also reviewed/updated the City Annexation Policy and Limits of Annexation Map, and assisted in updates to the City's Capital Improvement Plan. Implementation of the City's

Complete Streets Policy is ongoing with the continued collection of data to be incorporated into the Complete Streets Status Report that is updated and published every three years. Implementation of the Billings Community Transportation Safety Plan will continue with reporting to MDT required.

PROPOSED ACTIVITIES - FISCAL YEAR 2020

All administrative functions of the Planning Division will be performed under this work element. Program management activities will include, but not be limited to the following:

1. Correspondence
2. Public Relations
3. Employee Guidance, Supervision, and Training
4. Program Organization and Management
5. Consultant Liaison Activities
6. Staff Meetings
7. Negotiations
8. Preparation of Contracts
9. Staff Training
10. Performance Monitoring
11. Office Equipment Acquisition
12. Budget Management and Administration

New federal regulations require that performance measures and goals be established to monitor the performance of the region's transportation system.

The MPO will work with federal, state and local agencies to improve current performance tracking methods. Performance measures will be tracked on the MPO website and regular reporting will be provided to the Transportation Policy Coordinating Committee, MPO committees and the general public depending on the availability of related data.

PL Eligible Activities

- As per the MPO's public participation plan and ongoing public outreach efforts, the planning staff will make available the documents and guidelines for transportation planning activities to the community, as well as keep abreast of federal and state requirements as they relate to the overall planning processes. These activities may include distribution of the Billings Area Bikeway and Trail Master Plan to community organizations or individuals, distribution of the current Billings Area Tour Map for bicycle and pedestrian users and visitors, distribution and explanation of the latest Billings Urbanized Area Traffic Count Map and Bicycle Count Map, explanation and distribution of the MPO's public participation plan to groups involved or interested in transportation planning processes in the community, and explanation and information dissemination of the TA or other grant programs to possible project applicants in the community.
- Staff will update the PL & Memorandum of Agreement as necessary to meet the requirements of the FAST Act.
- Quarterly progress and expenditure reports will be prepared and transmitted to the Montana Department of Transportation (MDT) in order to maintain federal funding support.
- The FY 2020 UPWP will be continually appraised and monitored in terms of content and budget allocations and will be revised when deemed necessary.
- The Fiscal Year 2021 UPWP will be developed under this work element.

- The Board of Planning, Board of County Commissioners and City Council will be kept informed of the activities of the staff and its progress in completing the approved UPWP.
- Staff will be involved in implementation of the Community Safety Plan for the Billings Urban Area.
- All planning staff will participate in recognized and approved training programs in order to improve staff skills and capabilities. Planning expertise will be maintained through enrollment in appropriate planning and transportation-related courses at area colleges, workshops, seminars, webinars and conferences.
- Staff will adapt software programs to effectively utilize traffic data and continue computer-training programs.
- The use of PL funds for out-of-state travel and/or registration fees for the above or other purposes will continue to be subject to prior approval of MDT.
- The TA Program administration will be funded through this work element.
- Fixing America's Surface Transportation (FAST) Act or new replacement legislation will be reviewed so staff may become familiar with changes affecting the metropolitan planning process.
- The Active Transportation Planner position has been filled and is operating at approved full time status. This planning position is funded out of several work elements (100, 200 and 300).
- Grant writing services will continue to be incorporated within the department. Planning activities pertaining to Bicycle-Pedestrian in this work element will include:
    - Work field inspections, handle complaints and investigate problem areas of the Bike/Pedestrian system.
    - Presentations as needed.

Locally Funded Activities

- General administrative activities will include maintenance of files, library documents, daily correspondence and preparation of necessary periodic reports.
- Interagency committee participation is included in this work element.
- All staff members will continue to participate in and encourage increased cooperation between state and local agencies, departments and governing bodies.
- The Planning Division will serve both as a coordinator of and a participant in meetings and committees.
- Planning Division involvement will include participation with such agencies as the Housing Authority, Big Sky Economic Development (BSED), Air Pollution Control Board, RiverStone Health (City-County Health Department), Healthy by Design, legislative study committees, and other agencies.
- Staff will also continue a summer intern program as interest and needs arise; oversight of these individual(s) will take place in this work element.
- Staff will continue to implement long-term document storage through virtual servers and cloud storage platforms.

STAFFING

26 Staff Months – City/County Planning

FUNCTIONAL AGENCY RESPONSIBILITY

The Planning Division will be responsible for administering the area-wide planning process for the City and County.

PRODUCT

- An ongoing administrative program focused primarily at effective and expeditious implementation of this UPWP.
- The continual enhancement of the Planning Division staff skills and knowledge.
- Maintenance of a coordinated, comprehensive, and cooperative planning process that is endorsed and supported by the local community.
- The development of the FY21 UPWP.

FUNDING SCHEDULE - ADMINISTRATION

FUNDS PROGRAMMED - FISCAL YEAR 2019

FUNDING SOURCE

AGENCY	PL	LOCAL	TOTAL
MPO	$209,000	$171,000	$380,000*
TOTAL	$209,000	$171,000	$380,000*

DISBURSEMENT PERCENTAGE

AGENCY	PL	LOCAL	TOTAL
MPO	55	45	100

FUNDS PROGRAMMED - FISCAL YEAR 2020

FUNDING SOURCE

AGENCY	PL*	LOCAL	TOTAL
MPO	$210,100	$171,900	$382,000**
TOTAL	$210,100	$171,900	$382,000**

*The matching ratio is Federal PL--86.58% and State match-13.42%.

** Record Keeping via virtual servers and cloud storage - $7,000

101 SERVICE (4302)

OBJECTIVE

- To coordinate the dissemination of information and exchange of ideas between planning agencies and the interested public, decision-makers, and other departments, agencies, and organizations as related to the Billings MPO.

ACCOMPLISHMENTS - FISCAL YEAR 2019

Members of the planning staff were involved in a wide range of service tasks. Planning services included presentations related to roadways and alternative transportation, responding to citizen inquiry and complaints regarding streets, subdivision layout, site distance, zoning request, conformance with the 2018 Transportation Plan Update and the Billings Area Bikeway and Trail Master Plan, City of Billings 2016 Growth Policy, the Lockwood Growth Policy and various neighborhood and community plans.

Staff presented transportation planning information to its organization and agency partners as needed for educational and decision making purposes. Planning staff also shared information with the community and stakeholders throughout the development of several planning efforts. The Billings MPO hosted 12+ webinars covering a variety of topics including transportation and mobility related topics.

PROPOSED ACTIVITIES - FISCAL YEAR 2020

PL Eligible Activities

- Staff will continue to organize a very successful series of webinars and "brown bag lunch" seminars on a wide range of planning topics, including multi-modal transportation planning and funding, collaborative community planning techniques and planning for sustainability as well as various Institute of Transportation Engineers, Pro Bike/Pro Walk, Sustainable Communities, and Federal Highway Administration webinars.
- Staff is also targeting webinars which educate the public on the transportation planning process and funding as related to the operation of the MPO.

Locally Funded Activities

- Staff will continue to develop and use website tools to enable citizens to access information on upcoming planning activities, board and commission meetings, and recent land use applications, as well as interact with various planning processes through email notification and online comment programs. Staff will look at implementing citizen access to the Questys System software for access to historical data related to transportation, zoning and other planning applications.
- Continue increasing community and agency awareness of the interrelationships between land use development and transportation needs through dissemination of information and drafting of planning documents that incorporate both elements together.

STAFFING

3.5 Staff Months – City/County Planning

FUNCTIONAL AGENCY RESPONSIBILITY

As Assigned.

PRODUCT

- A responsive and flexible planning process utilizing staff capable of providing short-term findings and recommendations, as well as ongoing customer service to the public on all levels of planning projects and regulations.
- Provide approximately 12 transportation related webinars to staff, local officials and general public to educate on current transportation issues. These webinars are scheduled on a monthly basis and anticipate 5-10 person viewings per showing. This number can fluctuate depending on the topic. Staff participation is anticipated to be 4-5 persons at these viewings.
- In addition to the transportation specific webinars, staff also provides general planning webinars that are advertised to all city staff, local officials and the general public. These webinars are scheduled routinely and can include up to 3 webinars a month. Participation anticipated at these webinars is 5-10 person per viewing. This number can fluctuate depending on the topic. Staff participation is approximately 3-5 per viewing contingent on scheduling.

FUNDING SCHEDULE - SERVICE

FUNDS PROGRAMMED - FISCAL YEAR 2019

FUNDING SOURCE

AGENCY	PL	LOCAL	TOTAL
MPO	$20,000	$20,000	$40,000
TOTAL	$20,000	$20,000	$40,000

DISBURSEMENT PERCENTAGE

AGENCY	PL	LOCAL	TOTAL
MPO	50	50	100

FUNDS PROGRAMMED - FISCAL YEAR 2020

FUNDING SOURCE

AGENCY	PL*	LOCAL	TOTAL
MPO	$21,000	$21,000	$42,000
TOTAL	$21,000	$21,000	$42,000

*The matching ratio is Federal PL--86.58% and State match-13.42%.

102 CITIZEN INVOLVEMENT (4303)

OBJECTIVE

- To solicit information concerning community values and goals and to receive community input into the development of plans and projects.

ACCOMPLISHMENTS - FISCAL YEAR 2019

Numerous meetings with service clubs, civic groups, and professional organizations were attended by staff members to discuss all facets of local planning. The Planning Board used extensive public input to review and receive comments on a wide range of planning issues throughout the City and County. Meetings of neighborhood task force organizations and neighborhood advisory committees were also attended as requested to answer questions and review long-range planning issues, particularly related to transportation planning and projects, as well as code enforcement complaints. Projects specifically related to citizens and citizen boards included the update to the 2014 Long Range Transportation Plan, the update to the 2008 Public Participation Plan and the development of the Billings Urban Traffic Model.

PROPOSED ACTIVITIES - FISCAL YEAR 2020

PL Eligible Activities

- Outreach to the public and all affected jurisdictions for ongoing transportation projects, including but not limited to the North Billings Bypass (MDT construction project), short-term rail traffic mitigation projects in downtown Billings, Inner Belt Loop Corridor Study, and the Wayfinding Signage Plan. The new transportation planning projects: 5th Avenue Corridor Study, North Billings Bypass Corridor Study, Bike/Scooter Share Transportation System Impact Study, and the Complete Street Progress Report.
- The staff will continue to support the Bicycle and Pedestrian Advisory Committee. The Committee is responsible for forwarding recommendations to the Planning Board and governing bodies on bicycle safety, bike lanes, pedestrian safety and access, and other matters. The group will be involved in the nomination and review of TA Program eligible projects, bicycle and pedestrian signing and safety projects, grant applications for non-motorized transportation projects, and community education and outreach on bicycle and pedestrian safety within the MPO.
- TAC and PCC meetings will be held and meeting information disseminated as necessary.
- Staff will continue to update and maintain the MPO's website to provide the most current up to date information to the community.
- Staff will utilize web-based GIS and web mapping software for assistance in transportation planning.
- Some of the specific projects that will involve community participation include the completion of the Inner Belt Loop Corridor Study, the Downtown Area Traffic Circulation and Safety Study, the Wayfinding Signage Plan, 5th Avenue Corridor Study, North Billings Bypass Corridor Study, Bike/Scooter Share Transportation System Impact Study, and the Complete Street Progress Report.

Locally Funded Activities

- Meetings with various citizen groups will be coordinated and attended for the purpose of soliciting information and ideas on a broad range of planning issues within the Billings Urban Area and throughout Yellowstone County.

- Community participation using new tools and techniques will also be included in all planning studies proposed within this document.
- Staff will utilize web-based GIS and Web mapping software for assistance in land-use planning.

STAFFING

4.0 Staff Months – City/County Planning

FUNCTIONAL AGENCY RESPONSIBILITY

City/County Planning

PRODUCT

- A comprehensive and coordinated solicitation and collection of public opinions in order to accurately reflect the preferences and priorities of the citizens within the Billings Urban Area.
- An enhanced integrated web-based public participation software that includes MPO and generally planning projects and procedures and other pertinent information.

FUNDING SCHEDULE - CITIZEN INVOLVEMENT

FUNDS PROGRAMMED - FISCAL YEAR 2019

FUNDING SOURCE

AGENCY	PL	LOCAL	TOTAL
MPO	$33,000	$33,000	$66,000
TOTAL	$33,000	$33,000	$66,000

DISBURSEMENT PERCENTAGE

AGENCY	PL	LOCAL	TOTAL
MPO	50	50	100

FUNDS PROGRAMMED - FISCAL YEAR 2020

FUNDING SOURCE

AGENCY	PL*	LOCAL	TOTAL
MPO	$34,000	$34,000	$68,000
TOTAL	$34,000	$34,000	$68,000

*The matching ratio is Federal PL--86.58% and State match-13.42%.

41.12.200 GENERAL DEVELOPMENT & COMPREHENSIVE PLANNING

200 Community Planning (4304)

OBJECTIVE

- To maintain records and make projections of population and dwelling unit data, land use information, employment data, and to maintain adequate financial records, files and reports.
- To provide current, accurate information pertaining to the quantity of residential, commercial, industrial, and public land in the MPO and across the County.
- To summarize and analyze development trends and to provide visual information to the City Council, County Commission, Planning Board and the public during the public input process for transportation and land-use decision making.
- To recommend implementation of the goals, policies, and strategies of the adopted 2016 City of Billings and Lockwood Growth Policy.
- Implementation of Long Range Transportation Plans and Planning Studies.
- The current ten planning factors have been reviewed and incorporated in this UPWP. The factors are:

    1) Support the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency;
    2) Increase the safety of the transportation system for motorized and non-motorized users;
    3) Increase the security of the transportation system for motorized and non-motorized users;
    4) Increase the accessibility and mobility of people and for freight;
    5) Protect and enhance the environment, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns;
    6) Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight;
    7) Promote efficient system management and operation;
    8) Emphasize the preservation of the existing transportation system.
    9) Improve the resiliency and reliability of the transportation system and reduce or mitigate stormwater impacts of surface transportation; and
    10) Enhance travel and tourism.

ACCOMPLISHMENTS - FISCAL YEAR 2019

The 2010 Census and most recent American Community Survey (ACS) data has been updated and placed in various databases as it has become available. Data gathered and updated included annual information related to population estimates for city and counties within the State of Montana. This annual information is used by the public and public agencies for planning purposes. The ACS is accessed for review and dissemination, and updated information released by the US Census Bureau in regards to commuting patterns. Other data gathered includes:

- Building Permits, Demolition Permits, Electrical Permits, Subdivision Applications, Zoning Applications, Special Reviews, Variances, temporary use permits, sign permits, zoning

compliance permits and zoning clarification documents, annexation data, population trends, land use trends, school enrollment, employment data and general economic indicators.

The planning staff continues to review the 2010 Census data and the 2017 ACS figures and estimates for population and demographic data. Census information is made available to various local agencies and organizations and to the general public. The data is used for developing reports, grant applications and planning documents such as Transportation and Land Use Plans and for projects like the Recreational Trails Program Grant and other grants as needed.

The City-County Planning Division, on behalf of the Billings MPO, is responsible for preparing a Complete Streets Progress Report every three years. This direction was outlined in the City of Billings Complete Streets Policy: "The City will periodically collect, review and report performance data and benchmark measurements to demonstrate the effectiveness of the policy." This effort was completed with the first-ever Billings Complete Streets Benchmark Report prepared in 2013. An update to the Progress Report was completed in December of 2017 and included updated data sets and information regarding the performance of the Complete Streets Policy. Several datasets, including the general land use map of the County were updated so as to maintain an inventory of existing conditions. This information was utilized in various planning studies and provided to other departments and the general public. The MPO has scheduled an update to the Report for this upcoming year.

Zoning data developed in element 204 for the entire City and County zoning jurisdictions was provided to neighborhood task force groups and others as requested.

Numerous other special purpose maps were prepared for meeting purposes including bicycle trail maps, annexation maps, estimated development density maps and tables for the Limits of Annexation Map area, and other project influence areas. Natural resource, 2010 Census, and jurisdictional boundary information was updated or developed. Traffic count station locations were geo-positioned and linked with the City-County traffic count matrix. The City also upgraded its internal mapping system with an ArcGIS product that makes access to the most current property data and aerial photography better and easier for staff when researching existing conditions of transportation corridors and adjacent property. The new system provides a robust City GIS base map for use in application reviews, transportation planning efforts, and general customer inquiries. Ongoing review and implementation of sub-area neighborhood and transportation plans, and other planning documents was carried out by staff.

PROPOSED ACTIVITIES - FISCAL YEAR 2020

PL Eligible Activities

- The new web-based GIS software is compatible with available datasets and utilize the existing data sets more effectively. The GIS will be utilized to develop a series of maps, including existing and proposed pedestrian trail routes and projects in the community, maps to implement the Long Range Transportation Plan, updates to a preferred growth area map in conjunction with the City's Limits of Annexation Map, mapping of focus areas for implementation of the City's Infill Development Policy, and others.
- The City has also rolled out a new web-based system that works with the City's electronic project tracking and management system to provide a visual map view for staff and the public of the location of building permits that have been approved or are under review by the City. This web-based system will assist staff in identifying areas of impacts to the transportation system, specifically managing access.

The planning staff, under the direction of the Board of Planning, will continue to work on long-range planning projects according to the priorities established by both the City of Billings and Yellowstone County. In particular, the continuing implementation of the South Billings Master Plan, the 2018 Long Range Transportation Plan Update, and the 2016 Bikeways and Trails Master Plan.

Work related to Bicycle-Pedestrian activities in this work element will include:

- Work with staff to insure a bike/pedestrian friendly community.
- Review of proposed subdivision for non-motorized transportation connectivity.

Locally Funded Activities

- Staff also will continue to work with the Big Sky Economic Development (BSED) to implement the Master Plan for the East Billings Urban Renewal District (EBURD), the Hospitality Corridor Planning Study, the Exposition Gateway Concept Plan and the South Billings Boulevard Urban Renewal District (SBBURD) Master Plan. The plans include detailed analysis of the transportation and land use connections in the area and promoting sustainable development projects.
- Staff plans to work with the City, County, BSED, and neighborhood groups to identify planning needs in various parts of the urbanized area.
- Continued maintenance and update of socio-economic and land use data for both transportation and comprehensive planning activities will continue in 2020, with 2010 Census information and the newly released 2017 American Community Survey data.
- Various GIS databases and layers will continue to be developed and centrally maintained, including information on neighborhoods, community assets, route planning, trail systems and transportation plans.
- The new web-based system tracking and managing projects will include application information on zoning and subdivision applications.

STAFFING

21 Staff Months – City/County Planning

FUNCTIONAL AGENCY RESPONSIBILITY

City/County Planning

PRODUCT

- Various reports, files, and projections of socio-economic data necessary for current transportation and comprehensive planning activities, as well as support of City/County economic development activities.
- An ongoing GIS database/mapping system for the City of Billings and Yellowstone County.
- Ongoing updates to the preferred growth areas mapping and analysis for the City, implementation of the City Infill Development Policy, SBBURD Master Plan, the 2018 Long Range Transportation Plan Update, 2018 Public Participation Plan, the Downtown Area Traffic Circulation and Safety Study, Wayfinding Sign Plan, the Inner Belt Loop Corridor Study, and the Heritage Trail Tour Map and App.

FUNDING SCHEDULE - COMMUNITY PLANNING

FUNDS PROGRAMMED - FISCAL YEAR 2019

FUNDING SOURCE

AGENCY	PL	LOCAL	TOTAL
MPO	$69,000	$161,000	$230,000
TOTAL	$69,000	$161,000	$230,000

DISBURSEMENT PERCENTAGE

AGENCY	PL	LOCAL	TOTAL
MPO	30	70	100

FUNDS PROGRAMMED - FISCAL YEAR 2020

FUNDING SOURCE

AGENCY	PL*	LOCAL	TOTAL
MPO	$73,500	$171,500	$245,000
TOTAL	$73,500	$171,500	$245,000

*The matching ratio is Federal PL--86.58% and State match-13.42%.

204 ZONING ADMINISTRATION (4308)

OBJECTIVE

- To oversee, interpret and enforce current City and County zoning regulations.
- To effectively administer the regulations and provide efficient service to the elected officials and the public.
- To maintain current zoning and land use information for all zoned property within the jurisdiction of the Billings Metropolitan Planning Organization to use in long-range transportation planning studies, traffic analysis, and transportation projects.

ACCOMPLISHMENTS - FISCAL YEAR 2019

During the past year, all applications for zone changes, special reviews, variances, and planned developments were reviewed and processed by the planning staff. Reports and recommendations were prepared on each case to the various boards, commissions, and governing bodies. Digital photos are now incorporated into all zoning reports and Microsoft Power Point presentations are given to all boards and commissions. Staff is in the process of ongoing scanning of historic zoning files in preparation of future citizen access through a new archiving system software. All applications for building permits were also reviewed for compliance with City and County zoning regulations. Special zoning studies and ordinance updates were prepared as requested by the governing bodies. These included making a series of zoning code amendments to bring the regulations into compliance with changes in State Law and changes driven by community interests.

Staff coordinated with the County GIS Department to ensure that all zone changes within the Billings MPO area were reflected on GIS online and printed maps to ensure land use information was current.

A significant amount of time was also spent assisting the public with general zoning questions. The status of all active zoning applications is now posted on the City/County Planning websites.

The large undertaking of completely re-writing the Zoning Code started in early 2018 and is expected to be completed by the end of 2019. This included separating the Unified Zoning Code into separate codes for the City and County. To date, new districts have been identified with updated uses and zoning requirements for new development. Part of the revised districts in the code specifically address how the major transportation corridors interact with land uses along the corridors. This effort has included transportation discussion and analysis in relation to the new zoning district types. All sections of the Zoning Code are proposed to be overhauled.

PROPOSED ACTIVITIES - FISCAL YEAR 2020

PL Eligible Activities

- Zoning, Special Review, and Variance applications will be reviewed for land use compatibility, traffic, access, and overall site design. The new Billings Travel Demand Model will be used to evaluate new roadway improvements including but not limited to links, lane changes, transit changes, and addition of bike/pedestrian facilities.

- Staff will continue to maintain its zoning maps and land use information so that it is applicable to long-range transportation planning efforts in the Billings MPO. This information is regularly applied to a variety of MPO functions, including corridor analysis efforts like those involved in the Billings Bypass project, specific road projects, TA program applications and non-motorized grant applications.
- Staff will continue the update to the Zoning Code. It is anticipated the new code will be adopted and implemented by spring of 2020.

Locally Funded Activities

- Carrying out the day to day activities required to effectively administer the zoning regulations as well as ensure that land use information is current and available for all long-range transportation planning efforts, including Transportation Plan updates, specific road projects, corridor studies and the North Bypass project.
- Activity in 2020 will include ordinance updates as required by State law or requested by the public or governing bodies.
- All zone change applications will be reviewed for compliance with local plans.
- Staff will continue the update to Zoning Code based on fulfilling policy goals set by the local governing body including Growth Policy, Neighborhood Plans, Complete Streets and Infill Policies.

STAFFING

10 Staff Months – City/County Planning

FUNCTIONAL AGENCY RESPONSIBILITY

City/County Planning

PRODUCT

- Effective zoning regulations and administration for the City of Billings and Yellowstone County. Effective enforcement of the zoning regulations for Yellowstone County.
- On-line submittal capability for certain zoning permits, i.e. sign and fence will increase efficiency and convenience for applicants.

FUNDING SCHEDULE - ZONING ADMINISTRATION

FUNDS PROGRAMMED - FISCAL YEAR 2019

FUNDING SOURCE

AGENCY	PL	LOCAL	TOTAL
MPO	$28,000	$112,000	$140,000
TOTAL	$28,000	$112,000	$140,000

DISBURSEMENT PERCENTAGE

AGENCY	PL	LOCAL	TOTAL
MPO	20	80	100

FUNDS PROGRAMMED - FISCAL YEAR 2020

FUNDING SOURCE

AGENCY	PL*	LOCAL	TOTAL
MPO	$29,000	$116,000	$145,000
TOTAL	$29,000	$116,000	$145,000

*The matching ratio is Federal PL--86.58% and State match-13.42%.

205 SUBDIVISION ADMINISTRATION (4309)

OBJECTIVE

- To maintain the current City and County subdivision regulations and ensure that they are updated when changes in State law occur.
- To effectively administer the regulations and provide efficient service to developers, engineers and surveyors, elected officials, and the community.
- To ensure that development is occurring with minimal negative impacts to the community and that subdivisions are designed to be safe and long lasting in the community.
- To evaluate traffic accessibility studies, general circulation data, and ensure conformity with the Functional Classification Map and associated elements of the Long Range Transportation Plan when a subdivision application is submitted.
- To collect, manage, and apply subdivision development information for long-range transportation planning activities for the MPO – including but not limited to updates to the transportation plan and maintenance of inputs for traffic modeling.

ACCOMPLISHMENTS - FISCAL YEAR 2019

The Board of Planning and the planning staff reviewed all preliminary major and minor plat applications. Numerous conceptual and pre-application meetings were coordinated and attended by staff. All final plats were reviewed and processed. Also, a significant amount of time was spent assisting the public with general subdivision questions. Updates to the City and County Subdivision Regulations due to legislative changes were drafted and approved.

Staff collected and compiled information on the details of each new subdivision in terms of numbers of lots and land area slated for development. This information is integral to any transportation plan updates or long-range transportation planning efforts undertaken by the MPO in the community to determine population growth and location of residents and commercial services that affect the transportation system. This involved monthly subdivision activity reporting and periodic reviews of new development locations. This is also considered in relation to the TA program and when the MPO pursues grants for non-motorized transportation projects in the community.

The MPO continues to implement and enforce the Suburban Subdivision Regulations that require property currently outside the city limits but within the County Zoning Jurisdiction that may be annexed in the future to develop at city standards for infrastructure such as curb, gutter, sidewalk, etc. This new procedure has been a positive to residential development on the city fringe areas.

PROPOSED ACTIVITIES - FISCAL YEAR 2020

PL Eligible Activities

- Staff will review all subdivisions for compliance with the Billings Area Long Range Transportation Plan, and for conformity with the Billings Area Bikeway and Trail Master Plan, Lockwood Transportation Plan, Blue Creek Transportation Plan, and other neighborhood and community transportation plans as applicable. The new Billings Travel Demand Model will be used to evaluate

new roadway improvements including but not limited to links, lane changes, transit changes, and addition of bike/pedestrian facilities.

- Staff also will continue to collect information on the details of each new subdivision as an integral data source for long-range transportation planning efforts undertaken by the MPO. The MPO expects to use this data in 2020 for a variety of projects, including the Long Range Transportation Plan implementation, the Inner Belt Loop Corridor Study, and continued analysis for the North Bypass.

Locally Funded Activities

- All subdivision applications will be reviewed for compliance with local and state subdivision law.
- To carry out the day to day activities required to effectively administer the subdivision regulations, and to keep the regulations current.
- Continued implementation of the Suburban Subdivision Regulations within the County Zoning Jurisdiction area.

STAFFING

11.5 Staff Months – City/County Planning

FUNCTIONAL AGENCY RESPONSIBILITY

City/County Planning

PRODUCT

- An effective subdivision review process with regard to local and state law, the Growth Policy, and the Billings Area Transportation Plan.
- Correctly identified street segments in alignment with the 2018 Transportation Plan Functional Classification Map (under development).

FUNDING SCHEDULE - SUBDIVISION ADMINISTRATION

FUNDS PROGRAMMED - FISCAL YEAR 2019

FUNDING SOURCE

AGENCY	PL	LOCAL	TOTAL
MPO	$40,500	$94,500	$135,000
TOTAL	$40,500	$94,500	$135,000

DISBURSEMENT PERCENTAGE

AGENCY	PL	LOCAL	TOTAL
MPO	30	70	100

FUNDS PROGRAMMED - FISCAL YEAR 2020

FUNDING SOURCE

AGENCY	PL*	LOCAL	TOTAL
MPO	$43,500	$101,500	$145,000
TOTAL	$43,500	$101,500	$145,000

*The matching ratio is Federal PL--86.58% and State match-13.42%.

300 TRANSPORTATION SYSTEM DATA (4310)

OBJECTIVE

- To develop and maintain current transportation system data files and records.
- To provide transportation planning and data information to City and County staff, elected officials, developers, engineering firms, and the general public.

ACCOMPLISHMENTS - FISCAL YEAR 2019

The traffic count program for FY 2019 was completed. Travel times/delay/speed studies were completed, calculations computed, and level-of-service values determined. This data was used for various planning and engineering projects throughout the year. In addition, the public for land use planning commonly requests this data for land use planning.

Staff participated in the update of the City of Billings Capital Improvement Plan (CIP). Crash information was compiled and analyzed. Crash data is also used in many of the planning studies undertaken by the MPO. The staff also continued to utilize the trail scanners that were purchased and found new and better ways to both use the scanners in more trail locations in the community and display the data for various applications.

The MPO is currently in the process of completing the development of the Billings MPO TransCad Model program.

The transportation data is also being used for our current Planning Studies including the Inner Belt Loop Corridor Study, Heritage Trail Tour Map and Mobile Application, the Wayfinding Signage Plan and the Downtown Area Traffic Circulation and Safety Plan Implementation.

PROPOSED ACTIVITIES - FISCAL YEAR 2020

PL Eligible Activities

- Complete the development of the Billings MPO TransCad Model program. The ability of the Billings MPO to conduct transportation modeling in-house will benefit the community and will include modeling data on vehicles, bike and transit.
- The traffic count program for the Billings Urban Area as well as the Yellowstone County influence area will be conducted and the appropriate data recorded during FY2020. All traffic count data will be submitted to the MDT by February 1, 2020. Proposed this funding cycle is the replacement of traffic count equipment.
- Crash data will be compiled and analyzed to determine high hazard locations.
- Staff will update, where appropriate, the City's Capital Improvement Program.
- The Contract Position with City Engineering will continue duties of Traffic Demand Modeling and maintenance.
- Staff will collect and maintain bike/pedestrian information through the trail census and use of the trail-bike/pedestrian scanners. This activity is in conjunction with MPO region wide planning.

- Continued integration of the Transportation Planner II position into the Division's transportation project work and familiarity with transportation planning issues will continue under the direction of the Transportation Planning Coordinator. This individual continues to be responsible for managing traffic data for studies and reference, administering the TA Program, training for future modeling of traffic conditions related to new developments and transportation system changes.
- The traffic count data archive will be maintained and access for other agencies and the public will be coordinated with the system.
- Data will also be used during the completion of the Wayfinding Signage Plan and other proposed FY20 Planning Studies.
- The MPO will integrate new traffic count equipment. Staff will work with MDT on coordinating this.
- The Bicycle-Pedestrian activities will continue. Duties will include but not limited to:
    - Maintain Bike/pedestrian data bases in conjunction with MPO region wide planning purposes.
    - Maintain data base for easement acquisition.

STAFFING

13.5 Staff Months – City/County Planning
11.0 Staff Months - City Engineering (Contract Position)

FUNCTIONAL AGENCY RESPONSIBILITY

City/County Planning/MDT

PRODUCT

- Documentation as necessary, support of transportation grant programs, transportation system modeling, updated Traffic Count Program, and research and integration of traffic information into planning projects and development review activities.
- Current traffic count data.
- Current bike/pedestrian counts.

FUNDING SCHEDULE - TRANSPORTATION SYSTEM DATA

FUNDS PROGRAMMED - FISCAL YEAR 2019

FUNDING SOURCE

AGENCY	PL	LOCAL	TOTAL
MPO	$200,000	$0	$200,000
TOTAL	$200,000	$0	$200,000

DISBURSEMENT PERCENTAGE

AGENCY	PL	LOCAL	TOTAL
MPO	100	0	100

FUNDS PROGRAMMED - FISCAL YEAR 2020

FUNDING SOURCE

AGENCY	PL*	LOCAL	TOTAL
MPO	$230,000	$0	$230,000
TOTAL	$230,000	$0	$230,000**

*The matching ratio is Federal PL--86.58% and State match-13.42%.

**This Includes - $10,000 for Maintenance of the Billings MPO Travel Demand Model; $15,000 Traffic Counter Replacement.

301 TRANSPORTATION PLAN (4311)

OBJECTIVE

- Implement the Goals and Objectives in the Billings Long Range Transportation Plan.
- Develop (where necessary) and maintain data for the urban area in order to effectively monitor and evaluate the validity of the Transportation Plan.

ACCOMPLISHMENTS - FISCAL YEAR 2019

Staff continued to implement the 2018 Long Range Transportation Plan. Elements in the Plan include Goals and Objectives, a Transit section, an analysis of the railroad interface with the community, and a review of current projects listed in the 2018 Study. This plan updated requirements for Performance Measures. The Billings MPO has incorporated State MDT Performance Measures within all Transportation Planning and Projects.

Staff will continue to implement the 2017 Billings Area Bikeway and Trail Master Plan. This will include working with MDT, City and County Public Works and other organizations with the continued development of the non-motorized transportation system.

Staff is in the process of completing an update to the Heritage Trail Tour Map. This hard copy map is very popular with residents and with visitors. In addition to the hard copy map, an interactive Heritage Trail Tour Map mobile application is being developed. This will work as a compliment to the hard copy map and the development of the Wayfinding Signage Plan.

PROPOSED ACTIVITIES - FISCAL YEAR 2020

PL Eligible Activities

- Staff will work to implement the 2017 Billings Area Bikeway and Trail Master Plan.
- Continue to update and distribute the MPO Heritage Trail Bike/Pedestrian Tour Maps.
- Implement and promote the web-based interactive Bike and Pedestrian Mobile Application.
- Staff will also integrate the 2018 Transportation Plan with the City's Capital Improvement Program to ensure consistency.
- Projects will continue to be reviewed for future implementation in the City's CIP and the MPO's TIP.

STAFFING

9.0 Staff Months – City/County Planning

FUNCTIONAL AGENCY RESPONSIBILITY

City/County Planning

PRODUCT

- Implementation of transportation projects identified in the Billings Area Bikeway and Trail Master Plan, the Transportation Improvements Program, Transportation Plan and the Capital Improvements Program.

FUNDING SCHEDULE - TRANSPORTATION PLAN

FUNDS PROGRAMMED - FISCAL YEAR 2019

FUNDING SOURCE

AGENCY	PL	LOCAL	TOTAL
MPO	$265,000	$0	265,000
TOTAL	$265,000	$0	265,000

DISBURSEMENT PERCENTAGE

AGENCY	PL	LOCAL	TOTAL
MPO	100	0	100

FUNDS PROGRAMMED - FISCAL YEAR 2020

FUNDING SOURCE

AGENCY	PL*	LOCAL	TOTAL
MPO	$220,000	$0	220,000
TOTAL	$220,000	$0	220,000

*The matching ratio is Federal PL--86.58% and State match-13.42%.

302 PLANNING STUDIES (4312)

OBJECTIVE

- To update and develop site-specific plans and transportation studies where appropriate.

ACCOMPLISHMENTS - FISCAL YEAR 2019

- The City of Billings Engineering Division is in the final development of a study to look at the downtown traffic circulation, primarily the conversion of one-way streets to two-way streets. Engineering focused on the technical review of what could be done for motorized and non-motorized travel and functionality of downtown traffic flow. Planning intends to take the project from there to a public participation process and identify priorities and preferences for bike/pedestrian elements.
- The Inner Belt Loop Corridor is currently underway and working through collecting traffic data, meeting with property owners to discuss future development plan, access needs, etc. This study is expected to be completed by early 2020/
- Alta Planning + Design was chosen in June 2019 as the consultant to complete the Wayfinding Signage Plan. The project should begin in July and finish by the end of the calendar year.
- The Heritage Trail Tour map and app is continuing to be developed, it is anticipated that this project will be completed by this fall.
- The final planning study identified in last year's UPWP is the BUILD Grant (or similar grant) Feasibility Study. The MPO hired SRF to complete this study. While the study was being completed, FHWA announced the next round of BUILD grant funding. The City of Billings stepped in and hired SRF to assist in completing a BUILD Grant Application that includes a Program of Projects – Inner Belt Loop Connection, Skyline Trail, Stagecoach Trail and the completion of the southern two segments of the Marathon Loop (Zoo to Riverfront Park and Riverfront Park to Mystic Park). The grant is due July 15, 2019.

PROPOSED ACTIVITIES - FISCAL YEAR 2020

PL Eligible Activities

- Complete the Downtown Area Traffic Circulation and Safety Study. Planning will take the technical study completed by Engineering and use creative public outreach to develop an implementation strategy for the conversion of one-way streets to two-way. This strategy will include prioritization and preference on type of bike/pedestrian elements.
- Complete Street Progress Report is scheduled for update during this fiscal year and the traffic count and data will be vital.
- Complete a 5th Avenue North Feasibility Study. This feasibility study will review potential connections, non-traditional motorized and non-motorized system along the 5th Avenue North Corridor between North 32nd Street and Main Street (approximately 2 miles) in downtown Billings. The study includes the railroad spur that begins at North 23rd Street and extends southeast to Montana Avenue. This study was contemplated in 2016 but not completed. Further pressure from development and analysis of downtown traffic safety and circulation has brought this effort back as an important planning tool.
- North Billings Bypass Corridor Study. This study could evaluate transportation needs along the proposed alignment of the North Bypass. The study could include future access options as development occurs along the roadway, potential intersections, storm water management, bicycle

and pedestrian access and transportation safety along the corridor. The study would focus on the norther portion of the Bypass alignment, at the City/County interface north of the Yellowstone River.

- Bicycle/Scooter Share Feasibility Study. The Bikeshare Feasibility Study will assess if Billings can support shared micromobility device programs, to include, but not limited to bike share, e-bike share, and e-scooter share. The study will also include research into elements that can make any shared device programs successful, such as marketing, education, enforcement, and policies that will produce a beneficial relationship for users, pedestrians, residents and visitors, the City, and service providers. The community needs to get in front of this trend so that it has a plan in place if a vendor or vendors come to the City and want to employ a bike or scooter system.
- The MPO will continually research grant opportunities. This could include additional Federal grants similar to BUILD, or State and Local opportunities.

Locally Funded Activities

- Staff will be involved in the coordination through completion of all planning studies undertaken. This includes contract negotiations, coordination of citizen advisory groups, public meetings, overseeing contract deliverables and project wrap-up.

STAFFING

6.5 Staff Months – City/County Planning

FUNCTIONAL AGENCY RESPONSIBILITY

City/County Planning

PRODUCT

- Completed Urban Area-wide transportation studies for the Downtown Area Circulation and Safety Study, updated Complete Streets Benchmark Report, 5th Avenue Corridor, North Billings Bypass Corridor Study, and the Bicycle/Scooter Share Feasibility Study.

FUNDING SCHEDULE – PLANNING STUDIES

FUNDS PROGRAMMED - FISCAL YEAR 2019

FUNDING SOURCE			
AGENCY	**PL**	**LOCAL**	**TOTAL**
MPO	$192,000	$128,000	$320,000
TOTAL	$192,000	$128,000	$320,000

DISBURSEMENT PERCENTAGE

AGENCY	PL	LOCAL	TOTAL
MPO	60	40	100

FUNDS PROGRAMMED - FISCAL YEAR 2020

FUNDING SOURCE

AGENCY	PL*	LOCAL	TOTAL
MPO	$230,440	$153,560	$384,000**
TOTAL	$230,440	$153,560	$384,000**

*The matching ratio is Federal PL--86.58% and State match-13.42%.

**Downtown Area Traffic Circulation and Safety Study Public Participation $45,000; 5th Avenue Corridor Feasibility Study $100,000; North Bypass Corridor Study $120,000; Bike/Scooter Share Transportation System Impact Study $45,000; Complete Streets Progress Report $10,000; Grant Writing $45,000.

500 TRANSPORTATION IMPROVEMENT PROGRAM (4313)

OBJECTIVE

- To maintain a viable five-year program of transportation improvements for the Billings Urban Area.

ACCOMPLISHMENTS - FISCAL YEAR 2019

In May of 2017, a Transportation Improvement Program (TIP) update covering the period of 2017-2021 was produced to reflect current project status. Determinations were prepared for conformity to the Clean Air Act. Compliance with the requirements of the FAST-Act authorization was completed.

In February of 2018, an amendment to the 2017-2021 TIP was requested by MDT. Final approval of the amendment was received in April of 2018.

In January of 2019, an additional amendment was requested by MDT. This TIP Amendment #2 was approved by MDT and FHWA in April 2019.

PROPOSED ACTIVITIES - FISCAL YEAR 2020

PL Eligible Activities

- The Transportation Improvement Program (TIP) will be updated as needed to reflect current project status. A certification statement will be included, as appropriate, to conform to the planning regulations. Based on the Transportation Plan, projects will be evaluated and ranked in accordance with the Priority Ranking Procedures, and in accordance with consistency/conformity procedures. Necessary data will be gathered from primary and secondary sources by the planning staff based upon the Memorandum of Understanding with the City of Billings Public Works Department, establishing areas of data responsibility. Conformity determinations will be prepared as necessary to ensure conformity with the Clean Air Act.

STAFFING

2.5 Staff Months – City/County Planning

FUNCTIONAL AGENCY RESPONSIBILITY

City/County Planning

PRODUCT

- A current transportation improvement program which reflects conformity with FHWA, the Clean Air Act, and local priorities.

FUNDING SCHEDULE - TRANSPORTATION IMPROVEMENT PROGRAM

FUNDS PROGRAMMED - FISCAL YEAR 2019

FUNDING SOURCE

AGENCY	PL	LOCAL	TOTAL
MPO	$33,000	$0	$33,000
TOTAL	$33,000	$0	$33,000

DISBURSEMENT PERCENTAGE

AGENCY	PL	LOCAL	TOTAL
MPO	100	0	100

FUNDS PROGRAMMED - FISCAL YEAR 2020

FUNDING SOURCE

AGENCY	PL*	LOCAL	TOTAL
MPO	$34,000	$0	$34,000
TOTAL	$34,000	$0	$34,000

*The matching ratio is Federal PL--86.58% and State match-13.42%.

600 ENVIRONMENTAL CONSIDERATIONS (4314)

OBJECTIVE

- Maintain current records of monitored air pollution levels and obtain other environmental data as necessary within the Metropolitan Planning Area.
- Review proposed development and transportation system improvements with respect to environmental considerations within the MPO influence area.

ACCOMPLISHMENTS - FISCAL YEAR 2019

Air quality monitoring information was obtained from the County Air Pollution Control Board. Air quality mapping for the State Air Quality Bureau was revised. The Congestion Mitigation Air Quality (CMAQ) program was implemented. Staff continues to monitor carbon monoxide (CO) information in the Urbanized Area.

The Socio-Economic and Environmental (SEE) effects guidelines were used to review proposed developments and transportation system improvements.

PROPOSED ACTIVITIES - FISCAL YEAR 2020

PL Eligible Activities

- The planning staff will continue to utilize the SEE effects guidelines to evaluate all major development proposals in terms of transportation systems. This would include the CMAQ program.
- Work will continue to maintain the Billings air quality designation.
- Staff will continue to review the MOVES Program and others like it and their relationship to the MPO.

STAFFING

2.5 Staff Months – City/County Planning

FUNCTIONAL AGENCY RESPONSIBILITY

City/County Planning

PRODUCT

Current environmental data as well as a comprehensive planning and transportation planning process that will substantially addresses the socio-economic and environmental consequences associated with growth and development.

FUNDING SCHEDULE - ENVIRONMENTAL CONSIDERATIONS

FUNDS PROGRAMMED - FISCAL YEAR 2019

FUNDING SOURCE

AGENCY	PL	LOCAL	TOTAL
MPO	$32,000	$0	$32,000
TOTAL	$32,000	$0	$32,000

DISBURSEMENT PERCENTAGE

AGENCY	PL	LOCAL	TOTAL
MPO	100	0	100

FUNDS PROGRAMMED - FISCAL YEAR 2020

FUNDING SOURCE

AGENCY	PL*	LOCAL	TOTAL
MPO	$33,000	$0	$33,000
TOTAL	$33,000	$0	$33,000

*The matching ratio is Federal PL--86.58% and State match-13.42%.

41.17.700 OTHER ACTIVITIES

700 UN-PROGRAMMED FUNDS (4315)

OBJECTIVE

- To provide for the accounting of available un-programmed funds in the current UPWP.

ACCOMPLISHMENTS - FISCAL YEAR 2019
N/A

PROPOSED ACTIVITIES - FISCAL YEAR 2020

PL Eligible Activities

- This work element will be utilized for accounting purposes only. No specific work activity will be charged to this work element.

STAFFING
N/A

FUNCTIONAL AGENCY RESPONSIBILITY
N/A

PRODUCT
N/A

FUNDING SCHEDULE - CONTINGENCY

FUNDS PROGRAMMED - FISCAL YEAR 2019

FUNDING SOURCE

AGENCY	PL	LOCAL	TOTAL
MPO	$885,500	$59,500	$945,000
TOTAL	$885,500	$59,500	$945,000

DISBURSEMENT PERCENTAGE

AGENCY	PL	LOCAL	TOTAL
MPO	100	0	100

FUNDS PROGRAMMED - FISCAL YEAR 2020

FUNDING SOURCE			
AGENCY	**PL***	**LOCAL**	**TOTAL**
MPO	$713,545	$17,540	$731,085
TOTAL	$713,545	$17,540	$731,085

*The matching ratio is Federal PL--86.58% and State match-13.42%.

SECTION II -- FUNDING

TABLE I
FUNDING SUMMARY
FEDERAL FISCAL YEAR 2020

WORK ELEMENT	FUNDING SOURCES FY 2020		
	PL*	LOCAL	EST. COST
100 Administration	$210,100	$171,900	$382,000
101 Service	21,000	21,000	42,000
102 Citizen Involvement	34,000	34,000	68,000
200 Community Planning	73,500	171,500	245,000
204 Zoning	29,000	116,000	145,000
205 Subdivision	43,500	101,500	145,000
300 Transportation System	230,000	0	230,000
301 Transportation Plan	220,000	0	220,000
302 Planning Studies	230,440	153,560	384,000
500 T.I.P.	34,000	0	34,000
600 Environmental	33,000	0	33,000
700 Un-Programmed Funds	713,545	17,540	731,085
TOTAL	$1,872,085	$787,000	$2,659,085

*The matching ratio is Federal PL--86.58% and State match-13.42%.

TABLE II
FUNDING COMPARISONS

WORK ELEMENT	FY 2020 ESTIMATED COST	FY 2019 ESTIMATED COST
100 Administration	$382,000	$380,000
101 Service	42,000	40,000
102 Citizen Involvement	68,000	66,000
200 Community Planning	245,000	230,000
204 Zoning Administration	145,000	140,000
205 Subdivision Administration	145,000	135,000
300 Transportation System Data	230,000	200,000
301 Transportation Plan	220,000	265,000
302 Planning Studies	384,000	320,000
500 T.I.P.	34,000	33,000
600 Environmental Considerations	33,000	32,000
700 Un-Programmed Funds	731,085	945,000
TOTAL	$2,659,085	$2,786,000

TABLE III
FUNDING PERCENTAGES FEDERAL FISCAL YEAR 2020

WORK ELEMENT	RECIPIENT	PL	LOCAL	TOTAL
100 Administration	MPO	55	45	100
101 Service	MPO	50	50	100
102 Citizen Inv.	MPO	50	50	100
200 Community Planning	MPO	30	70	100
204 Zoning Administration	MPO	20	80	100
205 Subdivision Admin.	MPO	30	70	100
300 Trans. System Data	MPO	100		100
301 Transportation Plan	MPO	100		100
302 Planning Studies	MPO	60	40	100
500 T.I.P.	MPO	100		100
600 Environmental	MPO	100		100
700 Un-Programmed Funds	MPO	100		100

TABLE IV
STAFF MONTHS BY WORK ELEMENT FISCAL YEAR 2020

WORK ELEMENT	DIRECTOR (Friday)	SENIOR PLANNER (TRANS.) (Walker)	PLANNER I (Husman)	PLANNING MANAGER (Plecker)	PLANNER II (Mattox)	CLERK (Deines)	PLANNER II (Green)	PLANNER I (Vacant)	SENIOR PLANNER (ZONING) (Cromwell)	Active Trans. Planner I (Monat)	TOTAL M.M.
100	7	1.5	2.5	5.5	.5	1.5	.5	.5	1	5.5	26
101	.5		1				.5	.5	1		3.5
102	.5		.5	.5	.5	.5	1	.5			4
200	1.5		5	2	1	2	1	5	1	2.5	21
204			.5	.5		.5	.5	2	6		10
205			.5	1		.5	7.5		2		11.5
300		2.5	.5	.5	5	2				3	13.5
301	.5	4		.5	2	2					9
302	.5	1		.5	1	1		2.5			6.5
500	.5	1			.5	.5					2.5
600		1	.5		.5	.5					2.5
TOTAL	11	11	11	11	11	11	11	11	11	11	110

*This table indicates approximately how many man months individual staff members work in each work element.

WORK ELEMENT	CITY TRAF. TECHNICIAN
300	11
TOTAL	11

SECTION III

INDIRECT COST PLAN

INTRODUCTION

The Office of Management and Budget Circular 2 CFR Part 200 is used as governing criteria for establishing the allowed costs.

IDENTIFICATION OF COSTS

The costs are delineated below by type:

DIRECT	INDIRECT	BENEFITS
Salaries & Wages	Maintenance	FICA
Legal Notices	Reproduction	PERS
Travel	Supplies	Workmen's Compensation
Printing	Postage	Accident Insurance
Training	Subscriptions	Health Insurance
Consultants	Telephone	Sick Leave
Equipment	Utilities	Vacation
Mileage	Rent	Holidays
Moving/Interview	Audit	Maternity
	Messenger	Military
		Life Insurance
		Dental Insurance

ALLOCATION OF COSTS

Direct costs will be charged to the work program line item to which they apply.

An indirect cost rate of **11%** of the City and County's direct salaries and wages is proposed. The **11%** rate will be applied to the direct wages and salaries of each line item within the work program to cover all indirect expenses.

Benefits will be calculated at a rate of **48%** of the City and County's direct salaries and wages charged to each line item.

FUNDING SOURCES

The degree of participation by each funding agency is based on the pro-rations which have been determined for each line item. Each agency will be billed their share of the total charges made against each line item according to the approved pro-rations.

Funding sources and amounts contained in the UPWP are as follows:

Planning Dept. Fees (City of Billings)	$240,000
Planning Dept. Fees (Yellowstone Co.)	$57,000
Yellowstone County (Mill)	$490,000
PL*	$1,872,085
TOTAL	$2,659,085

*The matching ratio is Federal PL--86.58% and State match-13.42%.

SUMMARY

The indirect cost rate is a predetermined fixed rate which is not subject to adjustment. The base period used in determining the rate is the period from July 1, 2018 through June 30, 2019. The calculated rate is applicable to the grant period, which is October 1, 2019 through September 30, 2020.

LIST OF ACRONYMS

ADA	American Disability Act
BSEDA	Big Sky Economic Development Authority
CAC	Citizen Advisory Committee
CMAQ	Congestion Mitigation Air Quality
CTEP	Community Transportation Enhancement Program
EBURD	East Billings Urban Renewal District
FHWA	Federal Highway Administration
FTA	Federal Transit Administration
GIS	Geographic Information System
HPMS	Highway Performance Monitoring System
ISTEA	Intermodal Surface Transportation Efficiency Act
MAP-21	Moving Ahead for Progress in the 21st Century
MDT	Montana Department of Transportation
MPO	Metropolitan Planning Organization
PCC	Policy Coordinating Committee
PEP	Private Enterprise Participation
PL	Planning Funds
SAFETEA-LU	Safe, Accountable, Flexible, Efficient Transportation Equity Act for the 21st Century
TA	Transportation Alternative Program
TAC	Technical Advisory Committee
TDP	Transit Development Plan
TIP	Transportation Improvement Program
UPWP	Unified Planning Work Program
VMT	Vehicle Miles Traveled
YCBP	Yellowstone County Board of Planning

CHAPTER II

CITY OF BILLINGS TRANSIT DIVISION

SECTION I UNIFIED PLANNING WORK PROGRAM ELEMENTS

44.21.00 PROGRAM SUPPORT & ADMINISTRATION

44.21.01 ADMINISTRATION

OBJECTIVE

- To provide program support, general administration and grant administration
- To provide training in support of transit planning activities.

ACCOMPLISHMENTS - FISCAL YEAR 2019

Conformance with federal, state, and local administrative and regulatory requirements for maintenance of transit planning and development as well as operational execution of developed plans.

Staff remained informed of Federal and State requirements concerning all federal funding sources including, but not limited to, sections 5303, 5307, 5310, and 5339.

Staff attended training opportunities to enhance knowledge and skills, including Triennial Review specific training for the 2019 FTA Triennial Review and multiple webinars focusing on the upcoming Transit Safety Plan requirements.

Staff maintained and updated the Transit Asset Management (TAM) Plan with upcoming and in-process capital projects, as well as fleet and facility metrics. Members of the transit division also attended updated TAM training webinars throughout the year as well as direct hands-on training at the 2019 Montana Transit Association Spring Conference.

Staff worked on improvements to electronic data-keeping practices to enhance grant management, National Transit Database reporting, and the overall planning process.

Staff managed FTA Section 5303 grant activities and prepared the transit aspect of Unified Planning Work Program. Staff also continued to manage and execute programmed aspects of the 2018 5339(B) funding, while authoring and submitting a grant application for the 2019 5339(B) competitive funds.

Transit members attended and participated in diverse range of transit-related and general community meetings including the Billings Technical Advisory Committee (TAC), the Policy Coordinating Committee (PCC), City of Billings Transportation Team meetings, Healthy By Design Coalition meetings, and others. As the lead agency on the Coordinated Human Services Transportation Plan Committee, staff also provided guidance and updates to the Coordinated Transportation Plan.

PROPOSED ACTIVITIES - FISCAL YEAR 2020

All administrative functions necessary in support of transit planning and development will be performed under this work element. Activities will include:

- Continuing to improve data-keeping practices with movement toward further technology utilization in the gathering and compilation of data.
- Quarterly progress and expenditure reports will be prepared and transmitted to the Montana Department of Transportation, Urban Planning Division to maintain federal funding requirements.
- The FY 2020 UPWP will be monitored and revised as necessary.
- The FY 2021 UPWP for transit activities will also be developed within this element.
- Staff will execute grant administrative functions; staff will continue research and development regarding the utilization of FTA funding, as provided in the FAST Act, as well as research on innovative funding practices and partnerships.
- Maintenance of coordination with 5310 providers and, as the lead agency, updates to the Coordinated Transportation Plan.
- Development and application for capital grants as advised by the Coordination Transportation Plan Committee.
- Development and application for capital grants in the 5339(B) Bus and Bus Facilities program and other funding opportunities.
- Participation in recognized and approved training programs in order to improve skills and capabilities.
- Division policy assimilation of documents, regulations, codes, and practices to ensure compliance with federal, state, and local requirements as they relate to the transit planning process.
- Participate with the TAC, Coordination Plan Committee, citizen advisory boards and other committees throughout the community as needed.
- Staff will continue updating and maintaining the FTA mandated Transit Asset Management Plan; further staff will also develop and implement the required Transit Safety Plan.

STAFFING

170.1	Transit Manager Staff Hours
42.525	Transit Supervisor Staff Hours (3 positions)
44.650	Administrative Support Staff Hours (2 positions)
76.545	Aviation/Transit Director Staff Hours
336.82	**Total Staff Hours**

FUNCTIONAL AGENCY RESPONSIBILITY

City Transit Division

PRODUCT

- An ongoing administrative program to carry out the transit elements identified within this UPWP
- Administrative oversight and execution of transit planning and development functions.
- Enhancement of transit division skills and knowledge.

- Proper maintenance and administration of grant related activities.

FUNDING SCHEDULE - 44.21.01

Expenditures	Local	FTA	Total
Programmed FY 19	$5,278	$21,112	$26,390
Estimated FY 20	$6,247	$24,988	$31,235

44.24.01 FUTURE SERVICE EVALUATION AND ANALYSIS

OBJECTIVE

To facilitate considerations of means to ensure citizens will have acceptable public transportation alternatives in the future, including during times of limited financial resources.

ACCOMPLISHMENTS FISCAL YEAR 2019

Members of the transit division updated projections of future revenues and expenses and directed annual budget and financial resources analysis, including multi-year spreadsheets.

Staff arranged for and ensured execution of on-going data gathering and analysis efforts to monitor current system effectiveness and efficiency. This assisted in identification of operating and capital needs required to ensure a reliable and effective system into the future.

Staff assisted with and prepared related grant applications, grant revisions, and budget documents.

Transit Division members performed operational analysis of the transit system including analysis and implementation of fare box and other revenue changes.

Staff performed general planning for system improvements, including route and schedule changes and locations for amenities such as bus shelters and benches. This also included initial assessments of system-wide routing changes and resource reallocations in support of more effective and convenient fixed-route service.

Staff tracked and compiled on-going ridership metrics by route and mode to support planning practices.

Staff provided information and comments related to transit at meetings geared toward development, annexation, and traffic projects. Staff also received and responded to system inquiries, concerns, complaints, and suggestions.

PROPOSED ACTIVITIES FISCAL YEAR 2020

Functions necessary in support of future transit planning and development will be performed under this work element, including continuation of activities undertaken in FY 2019. Activities are as follows:

- In-depth fixed-route system analysis in pursuit of additional service hours, additional routes to address growth projections, and more efficient and effective use of existing resources. Staff may explore the potential for utilizing consultation services in regards to future service models and modes.
- Performance of financial analysis and planning; assessing ongoing and future capital and operating requirements.
- Research feasibility of further technology enhancements including electronic fare collection and further customer convenience features.
- Implementation of service adjustments, including supporting means to continue addressing needs

with limited resources.

- Investigate feasibility of expanding service beyond existing city limits and engage county stakeholders in discussion regarding potential for service to outlying areas.
- Continuation of planning efforts regarding public and stakeholder involvement and input opportunities, including recruiting involvement from key partners.
- Facilitation of public meetings to plan for general system improvements as well as specialized services for seniors and disabled.

STAFFING

456.25	Transit Manager Staff Hours
205.31	Transit Supervisor Staff Hours (3 positions)
142.58	Administrative Support Staff Hours (2 positions)
114.06	Aviation/Transit Director Staff Hours
918.20	**Total Staff Hours**

PRODUCT

- Identification of and plans for efficient and effective transit service for the future.
- Financial and capital analyses for future transit enhancements
- Identification and assistance in implementation of future system modifications.

FUNCTIONAL AGENCY RESPONSIBILITY

City Transit Division

FUNDING SCHEDULE - 44.24.01

Expenditures	Local	FTA	Total
Programmed FY 19	$14,827	$59,308	$74,135
Estimated FY 20	$14,171	$56,686	$70,857

44.24.02 CURRENT SERVICE ENHANCEMENT

OBJECTIVE

To improve service, ridership, and effectiveness of existing transit system.

ACCOMPLISHMENTS FISCAL YEAR 2019

Division members assessed upcoming and immediate operational needs and made recommendations on capital and operational projects; staff successfully completed the implementation of a real-time AVL system for customers to utilize in tracking fixed-route vehicle location. This system also allows for the gathering of various metrics including ridership and mileage.

Staff reviewed and revised ridership data for better accuracy in analysis of system functioning; members also provided monthly ridership analysis (including wheelchair and bike rack use), assessed ridership trends, and prepared other information on system functioning as requested. Further, staff prepared National Transit Database reports for regular submission of ridership metrics.

Division members monitored operational data to analyze possible improvements to routes and schedules, identifying minor system changes and implementing these system improvements as possible to existing routes and services.

Staff members regularly participated in group meetings and committee meetings to solicit partner and public feedback on current system usage, demands, successes and shortfalls. Input received from partners and the public were utilized in improvements for both fixed-route and paratransit services, including increased communication via the MET Transit website and mobile application interfaces.

PROPOSED ACTIVITIES FISCAL YEAR 2020

Functions necessary in support of planning and development of enhancements to the current systems will be performed under this work element, including continuation of activities undertaken in FY 2019. Activities are as follows:

- Identification and implementation of means to improve current service, including full system analysis of efficiency and effectiveness with recommendations on immediate improvements for the current transit system.
- Assessment of current personnel usage for areas of improvement in utilization of resources.
- Procurement and implementation of further technology enhancements to the existing AVL system on the fixed-route fleet to gather data, improve efficiency, and provide further customer conveniences while also enhancing safety.
- Develop and implement marketing strategy improvements to attract and educate new transit users and existing passengers on how to utilize the transit system, including providing travel training options to the public; this will also serve to enhance the public image of the existing system and services
- Develop and implement further outreach programs to increase community engagement through partnerships and other forms of participation.
- Maintain monthly ridership figures and summary figures for effective decision-making. ; complete related National Transit Database reports.

- Solicit and record public reaction to any modified routes, schedules, marketing efforts, and technology enhancements.
- Assessment of current budgetary impact of potential improvements.

STAFFING

465.00	Transit Manager Staff Hours
209.25	Transit Supervisor Staff Hours (3 positions)
145.31	Administrative Support Staff Hours (2 positions)
116.25	Aviation/Transit Director Staff Hours
935.81	**Total Staff Hours**

FUNCTIONAL AGENCY RESPONSIBILITY

City Transit Division

PRODUCT

- **Information relating to potential enhancements for existing service and system.**
- **Recommendations for immediate improvements.**
- **Analyses of current system functions.**
- **Budget alternatives.**

FUNDING SCHEDULE - 44.24.02

Expenditures	Local	FTA	Total
Programmed FY 20	$14,165	$56,660	$70,825
Estimated FY 20	$14,479	$57,918	$72,397

44.25.00 Transportation Improvement Program (TIP)

44.25.01 T.I.P.

OBJECTIVE

To maintain a viable five year program of transit improvements for the Billings Urbanized Area.

ACCOMPLISHMENTS FISCAL YEAR 2019

The Transportation Improvement Program (TIP) was updated to reflect current project status and include upcoming projects included in the division's Transit Asset Management Plan (TAM), Capital Improvement Plan (CIP), and Equipment Replacement Plan (ERP). Information was provided to the MPO to assist in community-wide Section 5310 project prioritization for inclusion in the TIP. The Statewide Transportation Improvement Program (STIP) process was also addressed and monitored, especially with regard to the grants.

PROPOSED ACTIVITIES FISCAL YEAR 2020

Functions necessary in support of transit related project inclusion in the Transportation Improvement Program will be performed under this work element. Activities are as follows:

- Division members will develop information on the operating and capital projects for which MET Transit plan to pursue grant assistance for inclusion in the TIP; this includes utilizing and updating the Division's TAM, CIP, and ERP as required.
- All applicable projects will be provided to the MPO for inclusion in the program.
- Staff will monitor inclusion in the TIP and STIP to ensure ability to obtain federal Sections 5307, 5310 & 5339 grant are not affected.

STAFFING

74.91	Transit Manager Staff Hours
18.73	Transit Supervisor Staff Hours (3 positions)
19.66	Administrative Support Staff Hours (2 positions)
18.73	Aviation/Transit Director Staff Hours
132.03	**Total Staff Hours**

FUNCTIONAL AGENCY RESPONSIBILITY

City Transit Division will provide transit-related information to the City/County Planning Department for the MPO's inclusion in the TIP document.

PRODUCT

- Updated Division plans including Transit Asset Management, the Capital Improvement Program, and components of the Equipment Replacement Plan
- Annual inclusion of projects in TIP as necessary per FTA regulations.
- Amendments to TIP as necessary to include new projects.

FUNDING SCHEDULE - 44.25.01

Expenditures	Local	FTA	Total
Programmed FY 19	$1,923	$7,694	$9,617
Estimated FY 20	$2,127	$8,509	$10,636

44.25.01 Implementation of Americans with Disabilities Act (ADA)

OBJECTIVE

To ensure optimal use of City of Billings funds in meeting the transportation needs of seniors and individuals with disabilities in both specialized and fixed route transportation in accordance with Federal Regulations, especially concerning the Americans with Disabilities Act (ADA).

ACCOMPLISHMENTS FISCAL YEAR 2019

Division members continued implementation of the paratransit Eligibility Certification procedures, including process improvements and efforts to develop and resolve operational policy issues. Members assisted with continued integration of the paratransit function within the City's MET Transit System while monitoring the transit system's compliance with the ADA regulations.

Staff investigated methods to improve paratransit efficiency and cost-effectiveness, including monitoring paratransit scheduling and dispatch software for potential enhancements or changes. Members also assessed financial and operational functioning of paratransit services as well as monitored procedures and policies involving lift-equipped fixed-route service and other accessibility features/requirements; this included assessing future vehicle needs and relevant procurement of vehicles as related to service for seniors and individuals with disabilities.

Staff familiarized seniors and individuals with disabilities with fixed route system use as appropriate. Further, members continued to coordinate transportation services among 5310 transit providers, social service agencies and the general public to provide an overall strategy to enhance transportation access, minimize duplication of services and facilitate the most appropriate cost-effective transportation possible within available resources. This also included continued outreach and engagement throughout the area to improve and advance community relations.

PROPOSED ACTIVITIES FISCAL YEAR 2020

Functions necessary in support of planning and development of transit related Americans with Disabilities projects, procedures, outreach, and other related activities will be performed under this work element. Activities are as follows:

- Plan, develop, or procure additional training for MET operators and employees focused on interacting with seniors and individuals with disabilities.
- Research and pursue updates to the paratransit scheduling and dispatching software system for increased system efficiency and effectiveness.
- Maintenance of positive relationships with individuals with disabilities and senior communities; continue to provide outreach and education for professionals, organizations, and other identified entities in the community including participating on advisory groups.
- Continue to facilitate and encourage involvement in regular Transportation Coordination Planning meetings with human service providers, social service agencies, transit providers and the public to coordinate efforts associated with transit capital and service planning, as required under the FAST Act.
- Continue to facilitate effective service provision and usage of lift-equipped fixed-route vehicles; assess and recommend capital and operational projects with the intent of supporting existing service and adding potential enhancements.
- Continue identification of means to address transit and special transportation needs, including

assisting in efforts to assess both short and long term paratransit needs and the organizational and financial capabilities of addressing those needs.

- Continue community outreach to the public and organizations in support of improving access to transportation for seniors and individuals with disabilities; continue participation on various community committees and group meetings while exploring avenues for further outreach and engagement.

STAFFING

420.00	Transit Manager Staff Hours
189.00	Transit Supervisors Staff Hours (3 positions)
131.25	Administrative Support Staff Hours (2 positions)
105.00	Aviation/Transit Director Staff Hours
845.25	**Total Staff Hours**

FUNCTIONAL AGENCY RESPONSIBILITY

City Transit Division

PRODUCT

- Continued consensus with and support of City of Billings compliance with ADA regulations related to transit
- Continued community consensus and support of City of Billings methods for addressing of specialized needs, including lift-equipped vehicles and other options for individuals with disabilities and seniors.
- Recommendations and proposals for enhancements to existing programs in support of ADA compliance and regulations aimed at increasing efficiency and effectiveness.
- Public involvement and feedback regarding potential system enhancements in support of transportation for seniors and individuals with disabilities.

FUNDING SCHEDULE - 44.26.15

Expenditures	Local	FTA	Total
Programmed FY 19	$13,846	$55,382	$69,228
Estimated FY 20	$13,093	$52,373	$65,466

SECTION II FUNDING

Table 4 Funding Summary and Staff Months by Element - City Transit Division Federal Fiscal Year 2019						
Work Element	**Funding Source**			**Disbursement Percentage**		Staff Hours
	City	FTA	Total Amount	City	FTA	
44.21.01	$6,247	$24,988	$31,235	20	80	353.25
44.24.01	$14,171	$56,686	$70,857	20	80	925.75
44.24.02	$14,479	$57,918	$72,397	20	80	945.88
44.25.01	$2,127	$8,509	$10,636	20	80	134.46
44.26.15	$13,093	$52,373	$65,466	20	80	855.31
SUB TOTAL	**$50,117**	**$200,474**	**$250,591**	**20**	**80**	**3,214.65**
TOTAL	**$50,117**	**$200,474**	**$250,591**	**20**	**80**	**3,214.65**

ALLOCATION OF COSTS

Expenditures identified include direct costs, benefits at the rate of 48% of direct salary or wages, and indirect costs at the rate of 11% of direct salary or wages.

Consent **1. K.**

Regular City Council Meeting

Meeting Date: 08/12/2019

TITLE: Bond Resolution for Sidewalk Improvement District W.O. 18-02

PRESENTED BY: Andy Zoeller, Finance Director

Department: City Hall Administration

Presentation: No

PROBLEM/ISSUE STATEMENT

Construction bids were taken last year for W.O. 18-02 This project was for construction of concrete sidewalks, curb and gutter, drive approaches, and alley approaches throughout the city. The areas of work were developed by city staff recommendation, calls from the public, and identified tripping hazards. The City and Purinton Family Trust have signed a bond purchase agreement. This resolution recaps the information in prior resolutions. The details of the bond are also set in the resolution.

ALTERNATIVES ANALYZED

This is the final step of the bond sale. Once Council approves this resolution, the closing will take place on August 20, 2019 and the money will be disbursed to the project fund.

FINANCIAL IMPACT

By doing a negotiated sale, the City eliminates the risk that the bonds may not be marketable in a public sale due to the relatively small size of the issue and it reduces the bond issuance costs. The term of the bond is 12 years with an interest rate of 5.0%. The property owners identified in the sidewalk creation documents will be assessed yearly on their property tax bill, or have the option to pay the assessment in full.

RECOMMENDATION

Staff recommends that the City Council approve the attached bond resolution, providing financing for W.O. 18-02 Sidewalk Improvement District project.

APPROVED BY CITY ADMINISTRATOR

Attachments

Bond Resolution

CERTIFICATE AS TO RESOLUTION AND ADOPTING VOTE

I, the undersigned, being the duly qualified and acting recording officer of the City of Billings, Montana (the "City"), hereby certify that the attached resolution is a true copy of Resolution No. _____ entitled: "RESOLUTION RELATING TO $205,000 SPECIAL SIDEWALK, CURB, GUTTER AND ALLEY APPROACH BOND, SERIES 2019; FIXING THE FORM AND DETAILS AND PROVIDING FOR THE EXECUTION AND DELIVERY THEREOF AND SECURITY THEREFOR" (the "Resolution"), on file in the original records of the City in my legal custody; that the Resolution was duly adopted by the City Council of the City at a regular meeting on August 12, 2019, and that the meeting was duly held by the City Council and was attended throughout by a quorum, pursuant to call and notice of such meeting given as required by law; and that the Resolution has not as of the date hereof been amended or repealed.

I further certify that, upon vote being taken on the Resolution at said meeting, the following Council Members voted in favor thereof: _____ _____; voted against the same: _____; abstained from voting thereon: _____; or were absent: _____ _____.

WITNESS my hand and seal officially this 12th day of August, 2019.

_____
City Clerk

RESOLUTION NO. _____

RESOLUTION RELATING TO $205,000 SPECIAL SIDEWALK, CURB, GUTTER AND ALLEY APPROACH BOND, SERIES 2019; FIXING THE FORM AND DETAILS AND PROVIDING FOR THE EXECUTION AND DELIVERY THEREOF AND SECURITY THEREFOR

BE IT RESOLVED by the City Council (the "Council") of the City of Billings, Montana (the "City"), as follows:

Section 1. Recitals. It is hereby found, determined and declared as follows:

1.01. Prior Acts. This Council, by Resolution No. 19-10810, adopted July 22, 2019 (the "Authorizing Resolution") and pursuant to Montana Code Annotated, Title 7, Chapter 14, Part 41 and Title 7, Chapter 12, Parts 41 and 42, as amended (the "Act"), authorized the issuance of special sidewalk, curb, gutter and alley approach bonds of the City in the aggregate principal amount of $205,000 for the purpose of financing costs of installation, construction, reconstruction or replacement of certain curbs, gutters, sidewalks, drive approaches, driveways, alley approaches and appurtenant improvements to certain locations in the City heretofore ordered by this Council pursuant to Resolution No. 18-10726, adopted May 29, 2018 (the "Resolution of Intention"), as the W.O. 18-02, Miscellaneous Improvements (the "Improvements"). The Improvements are more specifically described on Exhibit A hereto. Pursuant to the Authorizing Resolution, this Council determined that it is in the best interests of the City to sell its Special Sidewalk, Curb, Gutter and Alley Approach Bond, Series 2019 (the "Bond") at a private negotiated sale, subject to the limitations and conditions set forth therein. The City has heretofore entered into a Bond Purchase Agreement (the "Bond Purchase Agreement") with the Purinton Family Trust (the "Purchaser"), dated as of August 1, 2019, pursuant to which the Purchaser agreed to purchase the Bond from the City at a purchase price of $205,000 (representing the stated principal amount of the Bond) upon the terms set forth in this Resolution. The net interest cost for the Bond is 5.00%. The execution and delivery of the Bond Purchase Agreement is approved and ratified. In the event of any discrepancy between the Bond Purchase Agreement and this Resolution, this Resolution shall control.

In the Resolution of Intention, this Council found that it is in the public interest, and in the best interest of the City and the assessable real property adjacent to the Improvements, to secure payment of principal of and interest on the Bond by the Special Improvement District Revolving Fund of the City (the "Revolving Fund"), on the basis of the factors required to be considered under Montana Code Annotated, Section 7-12-4225. Those findings are hereby ratified and confirmed.

1.02. Costs. It is currently estimated that the costs and expenses to be assessed against properties adjacent to the Improvements, including costs of preparation of plans, specifications, maps, profiles, engineering superintendence and inspection, preparation of assessment rolls, expenses of making the assessments, the cost of work and materials under the construction contract and all other costs and expenses, including costs of issuance of the Bond and the deposit of proceeds in the Revolving Fund are as follows:

Construction Costs	$178,762.46
Design and Construction Administration	23,741.10
Total Project Costs	$202,503.56
Less Contributions	(16,639.24)
Project Costs to be Assessed	$185,864.32
Finance	150.00
Revolving Fund	10,250.00
Issuance Costs	8,000.00
Rounding Amount	735.68
Total	$205,000.00

Such amount will be levied and assessed upon the assessable real property adjacent to the Improvements on the bases described in Resolution of Intention. This Council has jurisdiction and is required by law to levy and assess such amounts, to collect such special assessments and credit the same to the 2019 Special Sidewalk, Curb, Gutter and Alley Approach Sinking Fund of the City (the "2019 Sidewalk Sinking Fund") created for the Improvements.

1.03. Recitals. All acts, conditions and things required by the Constitution and laws of the State of Montana, including the Act, and the home rule charter of the City, in order to make the Bond a valid and binding special obligation in accordance with its terms and in accordance with the terms of this Resolution have been done, do exist, have happened and have been performed in regular and due form, time and manner as so required.

Section 2. The Bond.

2.01. Principal Amount, Maturity, Denominations, Date, Interest Rate. For the purpose of paying the costs and expenses incurred in the construction of the Improvements, funding a deposit to the Revolving Fund and paying costs of issuance of the Bond, and in anticipation of the collection of special assessments to be levied therefor, the City shall forthwith issue and deliver to the Purchaser the Bond, denominated "Special Sidewalk, Curb, Gutter and Alley Approach Bond, Series 2019" in the aggregate principal amount of $205,000, payable solely from the 2019 Sidewalk Sinking Fund. The Bond shall be dated, as originally issued, and be registered as of August 20, 2019, shall mature on July 1, 2031, and shall bear interest from the date of original registration until paid or duly called for redemption at the rate of 5.00% per annum. Interest shall be calculated on the basis of a 360-day year composed of twelve 30-day months.

2.02. Interest Payment Dates. Interest on the Bond shall be payable on each January 1 and July 1, commencing January 1, 2020, to the owner of record thereof as such appear on the bond register at the close of business on the fifteenth day of the immediately preceding month, whether or not such day is a business day. Upon the original delivery of the Bond to the Purchaser and upon each subsequent transfer or exchange of a Bond pursuant to Section 2.04, the Registrar (as hereinafter defined) shall date the Bond as of the date of its authentication.

2.03. Method of Payment. The Bond shall be issued only in fully registered form. The interest on and, upon presentation and surrender thereof at the principal office of the Registrar, the principal of the Bond shall be payable by check or draft drawn on the Registrar.

Notwithstanding the foregoing, so long as the Bond is evidenced by a single, fully registered term bond, it shall not be necessary to present and surrender the Bond until the full redemption thereof pursuant to Section 2.05, but the Registrar shall note in the bond register such principal payment. The principal of and interest on the Bond are payable in lawful money of the United States of America.

2.04. Registration. The City hereby appoints the City Finance Director to act as bond registrar, transfer agent and paying agent for the Bond (the "Registrar"). The City reserves the right to appoint a bank, trust company or fiscal company as successor bond registrar, transfer agent or paying agent, as authorized by the Model Public Obligations Registration Act of Montana (the "Registration Act"), but the City agrees to pay the reasonable and customary charges of the Registrar for the services performed. This Section 2.04 shall establish a system of registration for the Bond as defined in the Registration Act. The effect of registration and the rights and duties of the City and the Registrar with respect thereto shall be as follows:

(a) Bond Register. The Registrar shall keep at its principal office a bond register in which the Registrar shall provide for the registration of ownership of the Bond and the registration of transfers and exchanges of the Bond.

(b) Transfer. The Bond may be transferred in whole but not in part and only to (i) an affiliate of the Purchaser; (ii) a trust or other custodial arrangement established by the Purchaser or one of its affiliates, the owners of any beneficial interest in which are limited to qualified institutional buyers or accredited investors; or (iii) a person or entity that the Purchaser reasonably believes is qualified to purchase the Bond or that makes representations substantially similar to the representations the Purchaser makes in the Bond Purchase Agreement. Upon surrender to the Registrar for transfer of the Bond duly endorsed by the registered owner thereof or accompanied by a written instrument of transfer, in form satisfactory to the Registrar, duly executed by the registered owner thereof or by an attorney duly authorized by the registered owner in writing and guaranteed by an "eligible guarantor institution" meeting the requirements of the Registrar, the Registrar shall authenticate and deliver, in the name of the designated transferee or transferees, a new Bond of a like aggregate principal amount and maturity, as requested by the transferor. The Registrar may, however, close the books for registration of any transfer of the Bond or any portion thereof selected or called for redemption.

(c) Exchange. Whenever the Bond is surrendered by the registered owner for exchange, the Registrar shall authenticate and deliver a new Bond of a like aggregate principal amount, interest rate and maturity, as requested by the registered owner or the owner's attorney duly authorized in writing.

(d) Cancellation. The Bond surrendered upon any transfer or exchange shall be promptly canceled by the Registrar and thereafter disposed of as directed by the City.

(e) Improper or Unauthorized Transfer. When the Bond is presented to the Registrar for transfer, the Registrar may refuse to transfer the same until it is satisfied that the endorsement on such Bond or separate instrument of transfer is valid and genuine and

that the requested transfer is legally authorized. The Registrar shall incur no liability for the refusal, in good faith, to make transfers which it, in its judgment, deems improper or unauthorized.

(f) Persons Deemed Owner. The City and the Registrar may treat the person in whose name the Bond is at any time registered on the bond register as the absolute owner of such Bond, whether such Bond shall be overdue or not, for the purpose of receiving payment of, or on account of, the principal of and interest on such Bond and for all other purposes, and all such payments so made to any such registered owner or upon the owner's order shall be valid and effectual to satisfy and discharge the liability of the City upon such Bond to the extent of the sum or sums so paid.

(g) Taxes, Fees and Charges. For every transfer of a Bond or exchange of a Bond (except for an exchange upon the partial redemption of a Bond), the Registrar may impose a charge upon the owner thereof sufficient to reimburse the Registrar for any tax, fee or other governmental charge required to be paid with respect to such transfer or exchange.

(h) Mutilated, Lost, Stolen or Destroyed Bond. In case the Bond shall become mutilated or be destroyed, stolen or lost, the Registrar shall deliver a new Bond of like amount, number, maturity date and tenor in exchange and substitution for and upon cancellation of any such mutilated Bond or in lieu of and in substitution for any such Bond destroyed, stolen or lost, upon the payment of the reasonable expenses and charges of the Registrar in connection therewith; and, in the case of a Bond destroyed, stolen or lost, upon filing with the Registrar of evidence satisfactory to it that such Bond was destroyed, stolen or lost, and of the ownership thereof, and upon furnishing to the Registrar an appropriate bond or indemnity in form, substance and amount satisfactory to it, in which both the City and the Registrar shall be named as obligees. The Bond so surrendered to the Registrar shall be canceled by it and evidence of such cancellation shall be given to the City. If the mutilated, destroyed, stolen or lost Bond has already matured or such Bond has been called for redemption in accordance with its terms, it shall not be necessary to issue a new Bond prior to payment.

2.05. Redemption.

(a) Mandatory Redemption. If on any interest payment date there will be a balance in the 2019 Sidewalk Sinking Fund after payment of the principal and interest due on the Bond drawn against it, either from the prepayment of assessments or from the transfer of surplus money from the Construction Account to the Principal Account as provided in Section 3.02, the City Finance Director shall call for redemption on the interest payment date the principal amount of the Bond which, together with the interest thereon to the interest payment date, will equal the amount of such funds on deposit in the 2019 Sidewalk Sinking Fund on that date. The redemption price shall equal the principal amount of the Bond to be redeemed plus interest accrued to the date of redemption. Such mandatory redemption payments shall reduce the Mandatory Sinking Fund Payments in inverse order of Sinking Fund Payment Dates.

(b) Optional Redemption. The Bond is subject to redemption at any time, at the option of the City, in whole or in part, from sources of funds available therefor (other than those described in Section 2.05(a)), at a redemption price equal to the principal amount of the Bond to be redeemed plus interest accrued to the redemption date, without premium. Such optional redemption payments shall reduce the Mandatory Sinking Fund Payments in inverse order of Sinking Fund Payment Dates.

(c) Mandatory Sinking Fund Redemption. The Bond is subject to redemption on July 1 of the respective years shown below (herein referred to as a "Sinking Fund Payment Date") and in the principal amounts (hereinafter referred to as a "Mandatory Sinking Fund Payment") set forth below:

Term Bond

Sinking Fund Payment Date	July 1 Mandatory Sinking Fund Payment Amount	Sinking Fund Payment Date	July 1 Mandatory Sinking Fund Payment Amount
2020	$15,000	2026	$15,000
2021	15,000	2027	20,000
2022	15,000	2028	20,000
2023	15,000	2029	20,000
2024	15,000	2030	20,000
2025	15,000	2031*	20,000

*Final maturity.

(d) Notice and Effect of Redemption. The date of redemption and the principal amount of the Bond to be redeemed shall be fixed by the City Finance Director, who shall give notice thereof to the Registrar 45 days prior to the date set for redemption in order for the Registrar to give notice, by first class mail, postage prepaid, to the owner of the Bond at its address appearing on the bond register, of the principal amount of the Bond to be redeemed and the date on which payment will be made, which date shall be not less than 30 days after the date of mailing notice. On the date so fixed, interest on the principal amount of the Bond so redeemed shall cease to accrue.

2.06. Form. The Bond shall be prepared in substantially the form set forth in Exhibit B hereto, and by this reference made a part hereof, with such modifications as are permitted by the Act.

2.07. Execution, Registration and Delivery. The Bond shall be prepared under the direction of the City Finance Director and shall be executed on behalf of the City by the signatures of the Mayor, the City Finance Director and the City Clerk and sealed with the official seal of the City; provided that the seal and all signatures may be printed, engraved or lithographed facsimiles of the originals. In case any officer whose signature or a facsimile of whose signature shall appear on the Bond shall cease to be such officer before the delivery of the Bond, such signature or facsimile shall nevertheless be valid and sufficient for all purposes, the same as if such officer had remained in office until delivery. Notwithstanding such execution,

no Bond shall be valid or obligatory for any purpose or entitled to any security or benefit under this Resolution unless and until a certificate of authentication on such Bond has been duly executed by the manual signature of an authorized representative of the Registrar. The certificate of authentication on a different Bond need not be signed by the same representative. The executed certificate of authentication on the Bond shall be conclusive evidence that it has been authenticated and delivered under this Resolution. When the Bond has been so executed, authenticated and registered, it shall be delivered by the Registrar to the Purchaser upon payment of the purchase price in accordance with the contract of sale heretofore made and executed.

2.07. Application of Proceeds. From the proceeds of the Bond, the City Finance Director shall credit forthwith $10,250 to the Revolving Fund, as required by Section 7-12-4169(2) of the Act, and the balance of such proceeds to the Construction Account, to be used solely for the purposes described in Section 3.02.

Section 3. 2019 Sidewalk Sinking Fund; Assessments.

3.01. 2019 Sidewalk Sinking Fund. There is hereby created and established the fund designated as the "2019 Sidewalk, Curb, Gutter and Alley Approach Sinking Fund" which shall be maintained by the City Finance Director on the books and records of the City separate and apart from all other funds of the City. Within the 2019 Sidewalk Sinking Fund there shall be maintained three separate accounts, designated as the "Construction Account," the "Principal Account" and the "Interest Account," respectively.

3.02. Construction Account. There shall be credited to the Construction Account the proceeds of the sale of the Bond attributable to the Improvements remaining after the required deposit to the Revolving Fund. Any earnings on investment of money in the Construction Account shall be retained therein. All costs and expenses of constructing the Improvements, including costs of issuance of the Bond, shall be paid from time to time as incurred and allowed from the Construction Account in accordance with the provisions of applicable law, and money in the Construction Account shall be used for no other purpose; provided that upon completion of the Improvements and after all claims and expenses with respect to the Improvements have been fully paid and satisfied, any money remaining in the Construction Account shall be transferred to the Principal Account and used to redeem the principal amount of the Bond as provided in Section 3.03.

3.03. Principal Account and Interest Account. Money in the Principal Account and the Interest Account shall be used only for payment of the principal of and interest on the Bond as such payments become due or to redeem all or a portion of the principal amount of the Bond.

Upon collection of the installment of principal and interest due on November 30 and May 31 of each year on the special assessments to be levied with respect to the Improvements, the City Finance Director shall credit to the Interest Account so much of said special assessments as is collected as interest payment and the balance thereof to the Principal Account. Any installment of any special assessment paid prior to its due date with interest accrued thereon to the next succeeding interest payment date shall be credited with respect to principal and interest payments in the same manner as other assessments are credited to the Principal Account and Interest Account. All money in the Interest Account and the Principal Account shall be used first

to pay interest due, and any remaining money shall be used to pay principal then due and, if money is available, to redeem all or a portion of the principal amount of the Bond in accordance with Section 2.05; provided that any money transferred to the Principal Account from the Construction Account pursuant to Section 3.02 shall be applied to redeem the Bond to the extent possible on the next interest payment date for which notice of redemption has been properly given pursuant to Section 2.05(a). Interest shall be paid from the Interest Account as accrued on the Bond to the date of redemption, in accordance with the provisions of Section 7-12-4206 of the Act.

3.04. Loans From Revolving Fund. The Council shall annually or more often if necessary issue an order authorizing a loan or advance from the Revolving Fund to the Interest Account in an amount sufficient to make good any deficiency then existing in the Interest Account and issue an order authorizing a loan or advance from the Revolving Fund to the Principal Account in an amount sufficient to make good any deficiency then existing in the Principal Account, in each case to the extent that money is available in the Revolving Fund. A deficiency shall be deemed to exist in the Principal Account or Interest Account if the money on deposit therein on any December 15 or June 15 (excluding amounts in the Principal Account representing prepaid special assessments) is less than the amount necessary to pay the principal of the Bond then due (other than upon mandatory or optional redemption pursuant to Section 2.05(a) and (b) hereof), and interest payable on the Bond, on the next succeeding interest payment date.

Pursuant to Ordinance No. 1096, the City has undertaken and agreed to provide funds for the Revolving Fund by annually levying such tax or making such loan from the general fund of the City, subject to the limitation that no such tax levy or loan may in any year cause the balance in the Revolving Fund to exceed five percent of the principal amount of the City's then outstanding special improvement and sidewalk, curb, gutter and alley approach bonds and warrants secured thereby and subject to the durational limitations specified in the Act. In the event that the balance on hand in the Revolving Fund fifteen days prior to any date when interest is due on special improvement and sidewalk, curb, gutter and alley approach bonds and warrants of the City is not sufficient to make good all deficiencies then existing in the funds for which the City covenants to make loans from the Revolving Fund, the balance on hand in the Revolving Fund shall be allocated to the funds in which such deficiencies then exist in proportion to the amounts of the deficiencies on the respective dates of receipt of such money, until all interest accrued on such special improvement and sidewalk, curb, gutter and alley approach bonds and warrants of the City has been paid and to the extent of amounts available in the Revolving Fund. On any date when all accrued interest on special improvement and sidewalk, curb, gutter and alley approach bonds and warrants of the City payable from funds for which the City has covenanted to make loans from the Revolving Fund has been paid, any balance remaining in the Revolving Fund shall be loaned or advanced to the funds for payment and redemption of bonds and warrants to the extent such funds are deficient for such purpose and, if money in the Revolving Fund is insufficient therefor, pro rata, in an amount proportionate to the amount of such deficiency.

The City hereby determines, covenants and agrees to levy the property tax described in the immediately preceding paragraph to provide funds for the Revolving Fund so long as the Bond is outstanding to the extent required under the provisions of this Resolution and the Act,

even though such property tax levy may, under applicable law or provisions of the home rule charter of the City, require that property tax levies of the City for other purposes be reduced correspondingly.

Section 4. Covenants. The City covenants and agrees with the owner from time to time of the Bond that until the principal amount of the Bond and interest thereon are fully paid:

4.01. Compliance with Resolution. The City will hold the 2019 Sidewalk Sinking Fund and the Revolving Fund as trust funds, separate and apart from all of its other funds, and the City, its officers and agents, will comply with all covenants and agreements contained in this Resolution. The provisions hereinabove made with respect to the 2019 Sidewalk Sinking Fund and the Revolving Fund are in accordance with the undertaking and agreement of the City made in connection with the sale of the Bond as set forth in Section 1.01.

4.02. Construction of Improvements. The City will do all acts and things necessary to enforce the provisions of the construction contracts for the Improvements and to ensure the completion of the Improvements in accordance with the plans and specifications and within the time therein provided, and will pay all costs thereof promptly as incurred and allowed, out of the Construction Account and within the amount of the proceeds of the Bond appropriated thereto, amounts contributed by the City therefor and prepayments by owners of property adjacent to the Improvements.

4.03. Levy of Assessments. The City will do all acts and things necessary for the final and valid levy of special assessments upon all assessable real property adjacent to the Improvements, in accordance with the Constitution and laws of the State of Montana and the Constitution of the United States, in an aggregate principal amount not less than $205,000. Such special assessments shall be levied on the basis or bases prescribed in the Resolution of Intention, and shall be payable in substantially equal semiannual installments of principal and interest over a period of 12 years, at an annual rate equal to the sum of: (i) the average annual interest rate borne by the Bond, plus (ii) one-half of one percent (0.50%) per annum. The assessments to be levied will be payable on the 30th day of November in each of the years 2019 through 2030, and on the 31st day of May in the years 2020 through 2031, inclusive, if not theretofore paid, and shall become delinquent on such date unless paid in full. The first partial payment of each assessment shall include interest on the entire assessment from the date of original registration of the Bond to January 1, 2020. The assessments shall constitute a lien upon and against the property against which they are made and levied, which lien may be extinguished only by payment of the assessment with all penalties, cost and interest as provided in Section 7-12-4191 of the Act. No tax deed issued with respect to any lot or parcel of land shall operate as payment of any installment of the assessment thereon which is payable after the execution of such deed, and any tax deed so issued shall convey title subject only to the lien of said future installments, as provided in Montana Code Annotated, Section 15-18-214.

4.04. Reassessment. If at any time and for whatever reason any special assessment or tax herein agreed to be levied is held invalid, the City and this Council, its officers and employees, will take all steps necessary to correct the same and to reassess and re-levy the same, including the ordering of work, with the same force and effect as if made at the time provided by law, ordinance or resolution relating thereto, and will reassess and re-levy the same with the

same force and effect as an original levy thereof, as authorized in Section 7-12-4186 of the Act. Any special assessment, or reassessment or re-levy shall, so far as is practicable, be levied and collected as it would have been if the first levy had been enforced including the levy and collection of any interest accrued on the first levy.

If proceeds of the Bond, including investment income thereon, are applied to the redemption of the Bond, as provided in Sections 7-12-4205 and 7-12-4206 of the Act, or if refunding bonds are issued and the outstanding principal amount of the Bond is decreased or increased, the City will reduce or increase, respectively, the assessments levied in the respective project area and then outstanding pro rata by the principal amount of such prepayment or the increment above or below the outstanding principal amount of the Bond represented by the refunding bonds. The City and this Council, its officers and employees will reassess and re-levy such assessments, with the same effect as an original levy, in such reduced or increased amounts in accordance with the provisions of Sections 7-12-4176 through 7-12-4178 of the Act.

4.05. Absence of Litigation. There is now no litigation pending or, to the best knowledge of the City, threatened questioning the validity or regularity of the ordering of the Improvements, the contracts for construction of the Improvements or the undertaking and agreement of the City to levy special assessments therefor and to make good any deficiency in the collection thereof through the levy of taxes for and the making of advances from the Revolving Fund, or the right and power of the City to issue the Bond or in any manner questioning the existence of any condition precedent to the exercise of the City's powers in these matters. If any such litigation should be initiated or threatened, the City will forthwith notify in writing the Purchaser, and will furnish the Purchaser a copy of all documents, including pleadings, in connection with such litigation.

4.06. Waiver of Penalty and Interest. The City covenants not to waive the payment of penalty or interest on delinquent assessments levied for costs of the Improvements, unless the City determines, by resolution of the Council, that such waiver is in the best interest of the owner of the Bond.

Section 5. Tax Matters.

5.01. Use of Improvements. The Improvements will be owned and operated by the City and available for use by members of the general public on a substantially equal basis. The City shall not enter into any lease, use or other agreement with any non-governmental person relating to the use of the Improvements or security for the payment of the Bond which might cause the Bond to be considered a "private activity bond" or a "private loan bond" within the meaning of Section 141 of the Internal Revenue Code of 1986, as amended (the "Code").

5.02. General Covenant. The City covenants and agrees with the owner of the Bond that it will not take or permit to be taken by any of its officers, employees or agents any action which would cause the interest on the Bond to become includable in gross income for federal income tax purposes under the Code and applicable Treasury Regulations (the "Regulations"), and covenants to take any and all actions within its powers to ensure that the interest on the Bond will not become includable in gross income for federal income tax purposes under the Code and the Regulations.

5.03. Arbitrage Certification. The Mayor, the City Finance Director and the City Clerk, being the officers of the City charged with the responsibility for issuing the Bond pursuant to this Resolution, are authorized and directed to execute and deliver to the Purchaser a certificate in accordance with the provisions of Section 148 of the Code, and Section 1.148-2(b) of the Regulations, stating that on the basis of facts, estimates and circumstances in existence on the date of issue and delivery of the Bond, it is reasonably expected that the proceeds of the Bond will be used in a manner that would not cause the Bond to be an "arbitrage bond" within the meaning of Section 148 of the Code and the Regulations.

5.04. Arbitrage Rebate. The City acknowledges that the Bond is subject to the rebate requirements of Section 148(f) of the Code. The City covenants and agrees to retain such records, make such determinations, file such reports and documents and pay such amounts at such times as are required under said Section 148(f) and applicable Treasury Regulations to preserve the exclusion of interest on the Bond from gross income for federal income tax purposes, unless the Bond qualifies for the exception from the rebate requirement under Section 148(f)(4)(B) of the Code and no "gross proceeds" of the Bond (other than amounts constituting a "bona fide debt service fund") arise during or after the expenditure of the original proceeds thereof. In furtherance of the foregoing, the Mayor, the City Finance Director and the City Clerk are hereby authorized and directed to execute a Rebate Certificate, substantially in the form to be prepared by Bond Counsel, and the City hereby covenants and agrees to observe and perform the covenants and agreements contained therein, unless amended or terminated in accordance with the provisions thereof.

5.05. Information Reporting. The City shall file with the Secretary of the Treasury, not later than November 15, 2019, a statement concerning the Bond containing the information required by Section 149(e) of the Code.

Section 6. Authentication of Transcript. The officers of the City are hereby authorized and directed to furnish to the Purchaser and to Bond Counsel certified copies of all proceedings relating to the issuance of the Bond and such other certificates and affidavits as may be required to show the right, power and authority of the City to issue the Bond, and all statements contained in and shown by such instruments, including any heretofore furnished, shall constitute representations of the City as to the truth of the statements purported to be shown thereby.

Section 7. Defeasance.

7.01. General. When the liability of the City on the Bond issued under and secured by this Resolution has been discharged as provided in this Section 7, all pledges, covenants and other rights granted by this Resolution to the owner of the Bond shall cease.

7.02. Payment. The City may discharge its liability with reference to the Bond or installment of interest thereon which is due on any date by depositing with the Registrar on or before that date funds sufficient, or, if a City officer is the Registrar, mailing to the registered owner of the Bond a check or draft in a sum sufficient and providing proceeds available, for the payment thereof in full; or if the Bond or installment of interest thereon shall not be paid when due, the City may nevertheless discharge its liability with reference thereto by depositing with the Registrar funds sufficient, or, if a City officer is the Registrar, by mailing to the registered

owner thereof a check or draft in a sum sufficient and providing proceeds available, for the payment thereof in full with interest accrued to the date of such deposit or mailing.

7.03. Prepayment. The City may also discharge its obligations with respect to the Bond called for redemption on any date when it is prepayable in accordance with its terms, by on or before that date depositing with the Registrar funds sufficient, or, if a City officer is the Registrar, mailing to the registered owner of such Bond a check or a draft in a sum sufficient and providing proceeds available, for the payment of the principal, interest and redemption premium, if any, which are then due; provided that notice of such redemption has been duly given as provided herein or irrevocably provided for.

7.04. Escrow. The City may also at any time discharge its liability in its entirety with reference to the Bond, subject to the provisions of law now or hereafter authorizing and regulating such action, by depositing irrevocably in escrow, with a bank qualified by law as an escrow agent for this purpose, cash or securities which are authorized by law to be so deposited, bearing interest payable at such times and at such rates and maturing on such dates as shall be required, without reinvestment, to provide funds sufficient to pay all principal and interest to become due on the Bond on or before maturity or, if the Bond has been duly called for redemption or notice of such redemption has been irrevocably provided for, on or before the designated redemption date.

7.05. Irrevocable Deposits. If an officer of the City is the Registrar, any deposit made under this Section 7 with the Registrar shall be irrevocable and held for the benefit of the owner of the Bond in respect of which such deposits have been made.

Section 8. Repeals and Effective Date.

8.01. Repeal. All provisions of other resolutions and other actions and proceedings of the City and this Council that are in any way inconsistent with the terms and provisions of this Resolution are repealed, amended and rescinded to the full extent necessary to give full force and effect to the provisions of this Resolution.

8.02. Effective Date. This Resolution shall take effect immediately upon its passage and adoption by this Council.

PASSED AND ADOPTED by the City Council of the City of Billings, Montana, this 12th day of August, 2019.

_____
Mayor

Attest: _____
City Clerk

(SEAL)

EXHIBIT A

THE IMPROVEMENTS

General Description

The Bond is being issued for the purpose of financing costs of installation, construction, reconstruction or replacement of certain curbs, gutters, sidewalks, drive approaches, driveways, alley approaches and appurtenant improvements to certain locations in the City heretofore ordered by this Council as the W.O. 18-02, Miscellaneous Improvements, as further described below.

A) Sidewalk: 306 N 30th St, 218 N 24th St, 224 N 24th St, 2323 2nd Ave N, 2323 2nd Ave N, 503 S 28th St, 615 N 19th St, 2001 Clark Ave, 2005 Clark Ave, 1935 Yellowstone Ave, 2044 Yellowstone Ave, 2034 Yellowstone Ave, 2022 Yellowstone Ave, 2020 Yellowstone Ave, 2016 Yellowstone Ave, 2010 Yellowstone Ave, 2129 Clark Ave, 2117 Yellowstone Ave, 2123 Yellowstone Ave, 2129 Yellowstone Ave, 2141 Yellowstone Ave, 2147 Yellowstone Ave, 4219 Arden Ave, 916 Harvard Ave, 2716 7th Ave N, 1901 Yellowstone Ave, 1921 Yellowstone Ave, 1925 Yellowstone Ave, 1912 Yellowstone Ave, 2307 Ash St, 2303 Ash St, 4011 2nd Ave S, 4015 2nd Ave S, 4019 2nd Ave S, 4037 2nd Ave S, 317 Black Pine St, 2211 Meadowood St, 943 N 32nd St, 4415 Stone St, 4343 Stone St, 3631 Hayden Dr, 139 Jackson St, 912 Parkhill Dr, 1222 N 26th St, 1220 N 26th St, 1216 N 26th St, 1920 Howard Ave, 1928 Howard Ave, 1934 Howard Ave, 2002 Howard Ave, 2008 Howard Ave, 2014 Howard Ave, 1123 Avenue D, 4643 Phillips St, 1004 Burlington Ave, 367 Westchester Sq N, 267 Westchester Sq N, 1056 Calico Ave, 243 Westchester Sq N, 3010 Snowcrest Dr, 1603 Cherry Creek Loop, 1605 Cherry Creek Loop, 1611 Cherry Creek Loop, 1615 Cherry Creek Loop, 1315 Zimmerman Trl, 1310 30th St W, 1420 Benjamin Blvd, 1221 Maurine St, 1215 Maurine St, 1209 Maurine St, 1733 Hawthorne Ln, 1741 Hawthorne Ln, 1608 Blarney St, 1425 Bitterroot Dr, 1415 Bitterroot Dr, 1603 Blarney St, Wicks Ln and Bitterroot Dr, 1503 Bitterroot Dr, 1530 Bitterroot Dr

B) Curb and Gutter: 2312 3rd Ave N, 2824 1st Ave N, 2139 Eldorado Dr, 1923 Miles Ave, 4633 Mitchell Ave, 4639 Mitchell Ave, 2405 Poly Dr, 5405 Cobble Stone Ave

C) Sidewalk, Curb and Gutter: 15 N 29th St, 2035 Yellowstone Ave, 903 21st St W, 2135 Yellowstone Ave, 244 Birchwood Dr, 2030 Concord Dr, 2150 Concord Dr, 2144 Concord Dr, 1144 Harvard Ave, 1926 Yellowstone Ave, 1924 Yellowstone Ave, 1920 Yellowstone Ave, 1916 Yellowstone Ave, 4007 2nd Ave S, 4025 2nd Ave S, 4031 2nd Ave S, 1926 Colton Blvd, 4223 Phillip St, 827 Parkhill Dr, 1101 N 22nd St, 1104 Sunnyside Ln, 1204 Nasturtium Dr

D) Curb, Gutter, Sidewalk and Drive Aprons: 2027 Yellowstone Ave, 1017 Wyoming Ave, 2104 Concord Dr, 1906 Lewis Ave, 1916 Clark Ave, 4023 2nd Ave S, 1811 Avenue F, 1815 Avenue F

E) Curb, Gutter and Drive Aprons: 12 S Crestwood Dr, 2044 Pryor Ln, 3203 Morledge St, 3854 Avenue C, 3836 Avenue C, 3812 Avenue C, 2930 Lewis Ave

F) Sidewalk, Curb, Gutter and ADA Ramps: 725 N 25th St, 624 N 25th St, 2227 Ash St, 221 21st St W, 1227 Maurine St, 1203 Maurine St, 2201 Saint Johns Ave, 8087 Hawthorne Ln, 1602 Wicks Lane

G) Sidewalk, Curb, Gutter, Drive Aprons and ADA Ramps: 4003 2nd Ave S

EXHIBIT B

UNITED STATES OF AMERICA
STATE OF MONTANA
YELLOWSTONE COUNTY

CITY OF BILLINGS

SPECIAL SIDEWALK, CURB, GUTTER AND
ALLEY APPROACH BOND, SERIES 2019

Interest at the rate per annum specified below,
payable on the 1st day of January and the 1st day of July
in each year, commencing January 1, 2020.

Interest Rate	Maturity Date	Date of Original Issue
5.00%	July 1, 2031	August 20, 2019

No. R-1 $205,000.00

REGISTERED OWNER: PURINTON FAMILY TRUST

PRINCIPAL AMOUNT: TWO HUNDRED FIVE THOUSAND AND NO/100 DOLLARS

FOR VALUE RECEIVED, the City of Billings, Montana (the "City"), will pay to the registered owner identified above, or registered assigns, on the maturity date specified above the principal amount specified above, solely from the revenues hereinafter specified, as authorized by Resolution No. [_____], adopted August 12, 2019 (the "Resolution"), all subject to the provisions hereinafter described relating to the redemption of this Bond before maturity. This Bond bears interest at the rate per annum specified above from the date of original issue specified above, or from such later date to which interest hereon has been paid or duly provided for, until the maturity date specified above or an earlier date on which this Bond shall have been duly called for redemption by the City Finance Director. Interest on this Bond is payable semiannually on the 1st day of January and the 1st day of July in each year, commencing January 1, 2020, to the owner of record of this Bond appearing as such in the bond register as of the close of business on the fifteenth day (whether or not a business day) of the immediately preceding month. Interest on and, upon presentation and surrender hereof at the principal office of the Registrar, the principal of this Bond, shall be payable by check or draft drawn on the Registrar. Notwithstanding the foregoing, so long as this Bond is evidenced by a single, fully registered term Bond, it shall not be necessary to present and surrender this Bond until the full redemption hereof pursuant to the Resolution, but the Registrar shall note in the bond register such principal payment. The principal of and interest on this Bond are payable in lawful money of the United States of America. Interest on this Bond shall be calculated on the basis of a 360-day year composed of twelve 30-day months. The City Finance Director shall initially serve as Registrar for this Bond.

This Bond is issued pursuant to and in full conformity with the Constitution and laws of the State of Montana thereunto enabling, including Montana Code Annotated, Title 7, Chapter 14, Part 41 and Title 7, Chapter 12, Parts 41 and 42, as amended (the "Act"), and ordinances and resolutions duly adopted by the governing body of the City, including the Resolution, for the purpose of financing costs of installation, construction, reconstruction or replacements of certain curbs, gutters, sidewalks, drive approaches, driveways, alley approaches and appurtenant improvements in certain locations in the City (the "Improvements"), to fund a deposit to the Special Improvement District Revolving Fund (the "Revolving Fund") and to pay costs of issuance of the Bond.

This Bond is payable from the collection of a special tax or assessment levied upon all assessable real property adjacent to the Improvements, in an aggregate principal amount not less than $205,000, except as such amounts may be reduced or increased in accordance with provisions of Montana law. Such assessments constitute a lien against the property against which they are made and levied and are to be deposited into the 2019 Special Sidewalk, Curb, Gutter and Alley Approach Sinking Fund of the City (the "2019 Sidewalk Sinking Fund"). The Bond is not a general obligation of the City.

The City has validly established the Revolving Fund to secure the payment of certain of its special improvement and sidewalk, curb, gutter and alley approach bonds and warrants, including this Bond. The City has also agreed, to the extent permitted by the Act, to issue orders annually, or more often as necessary, authorizing loans or advances from the Revolving Fund to the 2019 Sidewalk Sinking Fund, in amounts sufficient to make good any deficiency in the 2019 Sidewalk Sinking Fund to pay principal of or interest on this Bond, to the extent money is available in the Revolving Fund, and to provide funds for the Revolving Fund by annually levying such tax or making such loan from its general fund, subject to the limitation that no such tax levy or loan may in any year cause the balance in the Revolving Fund to exceed five percent of the principal amount of the City's then outstanding special improvement and sidewalk, curb, gutter and alley approach bonds and warrants secured thereby and subject to the durational limitations specified in the Act. While any property tax levy to be made by the City to provide funds for the Revolving Fund is subject to levy limits under current law, the City has agreed in the Resolution to levy property taxes to provide funds for the Revolving Fund to the extent described in this paragraph and, if necessary, to reduce other property tax levies correspondingly to meet applicable levy limits.

If on any interest payment date there will be a balance in the 2019 Sidewalk Sinking Fund after payment of the principal and interest then due on this Bond drawn against it, either from the prepayment of assessments or from the transfer of surplus money from the Construction Account to the Principal Account, the City Finance Director shall call for redemption on the interest payment date the principal amount of this Bond which, together with the interest thereon to the interest payment date, will equal the amount of such funds on deposit in the 2019 Sidewalk Sinking Fund on that date. The redemption price shall equal the principal amount of this Bond to be redeemed plus interest accrued to the date of redemption. Such mandatory redemption payments shall reduce the Mandatory Sinking Fund Payments in inverse order thereof.

This Bond is subject to redemption at any time, at the option of the City, in whole or in part, from sources of funds available therefor (other than those described in Section 2.05(a) of

the Resolution), at a redemption price equal to the principal amount hereof to be redeemed plus interest accrued to the redemption date, without premium. Such optional redemption payments shall reduce the Mandatory Sinking Fund Payments in inverse order thereof.

This Bond is subject to redemption on July 1 of the respective years shown below (herein referred to as a "Sinking Fund Payment Date") and in the principal amounts (hereinafter referred to as a "Mandatory Sinking Fund Payment") set forth below:

Term Bond

Sinking Fund Payment Date	July 1 Mandatory Sinking Fund Payment Amount	Sinking Fund Payment Date	July 1 Mandatory Sinking Fund Payment Amount
2020	$15,000	2026	$15,000
2021	15,000	2027	20,000
2022	15,000	2028	20,000
2023	15,000	2029	20,000
2024	15,000	2030	20,000
2025	15,000	2031*	20,000

*Final maturity.

The date of redemption and principal amount of this Bond to be redeemed shall be fixed by the City Finance Director, who shall give notice thereof to the Registrar 45 days prior to the date set for redemption in order for the Registrar to give notice, by first class mail, postage prepaid, to the owner of this Bond at its addresses appearing on the bond register, of the principal amount of this Bond to be redeemed and the date on which payment will be made, which date shall not be less than 30 days after the date of mailing of notice. On the date so fixed interest on this Bond or principal amount thereof so redeemed shall cease to accrue.

As provided in the Resolution and subject to certain limitations set forth therein, this Bond is transferable upon the books of the City at the principal office of the Registrar, by the registered owner hereof in person or by his attorney duly authorized in writing upon surrender hereof together with a written instrument of transfer satisfactory to the Registrar, duly executed by the registered owner or his attorney. Upon such transfer or exchange, the City will cause a new Bond to be issued in the name of the transferee or registered owner, of the same aggregate principal amount, bearing interest at the same rate and maturing on the same date, subject to reimbursement for any tax, fee or governmental charge required to be paid with respect to such transfer or exchange.

The City and the Registrar may deem and treat the person in whose name this Bond is registered as the absolute owner hereof, whether this Bond is overdue or not, for the purpose of receiving payment and for all other purposes, and neither the City nor the Registrar shall be affected by any notice to the contrary.

IT IS HEREBY CERTIFIED, RECITED, COVENANTED AND AGREED that all things required to be done precedent to the issuance of this Bond have been properly done,

happened and been performed in the manner prescribed by the laws of the State of Montana and the resolutions and ordinances of the City of Billings, Montana, relating to the issuance hereof.

This Bond shall not be valid or become obligatory for any purpose or be entitled to any security or benefit under the Resolution until the Certificate of Authentication hereon shall have been executed by the Registrar by the manual signature of one of its authorized representatives.

IN WITNESS WHEREOF, the City of Billings, Montana, by its City Council, has caused this Bond to be executed by the facsimile signatures of the Mayor, the City Finance Director and the City Clerk, and by a printed facsimile of the official seal of the City.

CITY OF BILLINGS, MONTANA

(Facsimile Signature)
MAYOR

(Facsimile Seal)

(Facsimile Signature)
CITY FINANCE DIRECTOR

(Facsimile Signature)
CITY CLERK

Dated:

CERTIFICATE OF AUTHENTICATION

This Bond is delivered pursuant to the Resolution mentioned herein.

CITY OF BILLINGS, MONTANA,
as Registrar, Transfer Agent, and
Paying Agent

By _____
City Finance Director

The following abbreviations, when used in the inscription on the face of this Bond, shall be construed as though they were written out in full according to applicable laws or regulations:

TEN COM --	as tenants in common	UTMA….....Custodian…..... (Cust) (Minor)
TEN ENT --	as tenants by the entireties	
		under Uniform Gifts to
JT TEN --	as joint tenants with right of survivorship and not as tenants in common	Minor Act…..... (State)

Additional abbreviations may also be used.

ASSIGNMENT

FOR VALUE RECEIVED the undersigned hereby sells, assigns and transfers unto _____ _____ the within Bond and all rights thereunder, and hereby irrevocably constitutes and appoints _____ attorney to transfer the within Bond on the books kept for registration thereof, with full power of substitution in the premises.

Dated: _____

PLEASE INSERT SOCIAL SECURITY OR OTHER IDENTIFYING NUMBER OF ASSIGNEE:

_____

_____

_____

NOTICE: The signature to this assignment must correspond with the name as it appears upon the face of the within Bond in every particular, without alteration, enlargement or any change whatsoever.

SIGNATURE GUARANTEED

_____

Signature(s) must be guaranteed by an "eligible guarantor institution" meeting the requirements of the Registrar, which requirements include membership or participation in STAMP or such other "signature guaranty program" as may be determined by the Registrar in addition to or in substitution for STAMP, all in accordance with the Securities Exchange Act of 1934, as amended.

Consent **1. L.**

Regular City Council Meeting

Meeting Date: 08/12/2019

TITLE: Lake Hills Subdivision, 25th Filing, Amended - Final Minor Plat

PRESENTED BY: Monica Plecker

Department: Planning & Community Services

Presentation: No

PROBLEM/ISSUE STATEMENT

On July 24, 2019, WWC Engineering, agent for Canal Vista, LLC, applied for Final Minor plat approval for Lake Hills Subdivision, 25th Filing, Amended. The proposed subdivision creates one lot from 32 residential lots. This plat makes it possible for future re-subdivision or a master site plan where single family dwellings can be built. This plat does not create any new roads but will result in one large lot with access points on the south and north ends. A street vacation process was required prior to the filing of this plat and was previously approved by City Council. The vacation was processed and the documents were recorded with the clerk and recorders office on March 29, 2019. Since the road rights-of-way are now gone, this plat to create one lot will ensure the property has legal and physical access going forward. The subject property is generally located north of the intersection of Ditton Drive and Greenbriar Road in Billings Heights. This proposed single lot is zoned Residential 9600 which only allows single family residential development. City staff has reviewed the application and determined that the proposed plat has met all the conditions of approval and is forwarding a recommendation of approval to the City Council. Upon City Council approval, these documents are appropriate as to form for filing with the Clerk and Recorder

ALTERNATIVES ANALYZED

The City Council may approve or disapprove the final plat of Lake Hills Subdivision, 25th Filing, Amended. If the City Council chooses to deny the final plat, it must base the denial on the criteria outlined in Section 76-3-611, MCA, and Section 23-307, BMCC.

FINANCIAL IMPACT

Final plat approval of Lake Hills Subdivision, 25th Filing, Amended has no direct financial impact on the Planning Division.

RECOMMENDATION

City staff recommends the City Council approve the final plat of Lake Hills Subdivision, 25th Filing, Amended.

APPROVED BY CITY ADMINISTRATOR

Attachments

SIA

Final Mylar page 1

Final Mylar page 2

SUBDIVISION IMPROVEMENTS AGREEMENT & WAIVER OF RIGHT TO PROTEST FUTURE SPECIAL IMPROVEMENT DISTRICTS

Lake Hills Subdivision 25th Filing Amended Plat
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City of Billings

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SUBDIVISION IMPROVEMENTS AGREEMENT & WAIVER OF RIGHT TO PROTEST FUTURE SPECIAL IMPROVEMENT DISTRICTS

Lake Hills Subdivision 25th Filing Amended Plat

This agreement is made and entered into this ____ day of_____, 201_, by and between **Canal Vista, LLC**, whose address for the purpose of this agreement is **ADDRESS**, hereinafter referred to as "Subdivider," and the **CITY OF BILLINGS**, Billings, Montana, hereinafter referred to as "City."

WITNESSETH:

WHEREAS, the plat of ***Lake Hills Subdivision 25th Filing Amended Plat***, located in the City of Billings, Yellowstone County, Montana, was submitted to the Yellowstone County Board of Planning; and

WHEREAS, at a regular meeting conducted on _____ day of_____, 20__, the City Council conditionally approved a preliminary plat of ***Lake Hills Subdivision 25th Filing Amended Plat***; and

WHEREAS, a Subdivision Improvements Agreement is required by the City prior to the approval of the final plat.

WHEREAS, the provisions of this agreement shall be effective and applicable to ***Lake Hills Subdivision 25th Filing Amended Plat*** upon the filing of the final plat thereof in the office of the Clerk and Recorder of Yellowstone County, Montana. The Subdivision shall comply with all requirements of the City of Billings Subdivision Regulations, the rules, regulations, policies, and resolutions of the City of Billings, and the laws and administrative rules of the State of Montana.

THEREFORE, THE PARTIES TO THIS AGREEMENT, for and in consideration of the mutual promises herein contained and for other good and valuable consideration, do hereby agree as follows:

I. VARIANCES

1. Subdivider has requested no variances.

II. PROPERTY CONDITIONS AND INFORMATION FOR LOT PURCHASERS

A. Lot owner will be required to construct that segment of the required sidewalk that fronts their property at the time of lot development.

B. Lot owner should be aware that this subdivision is being built in close proximity to prime deer and antelope habitat and it is likely that homeowners will experience problems with damage to landscaped shrubs, flowers, and gardens. The Montana Fish, Wildlife, and Parks Department does not provide damage assistance unless there is damage to commercial crops and/or a threat to public health and safety.

C. Lot owner should be aware that soil characteristics within the area of this subdivision, as described in the 1972 Yellowstone County Soil Survey, indicate that there could be potential limitations for proposed construction on the lots, which may require a geotechnical survey prior to construction. (If a geotechnical study was done for this subdivision, insert specific information and recommendations for that study here, instead)

D. No water rights have been transferred to the lot owner. Irrigation ditches that exist on the perimeter of this development are for the benefit of other properties. Perimeter ditches and drains shall remain in place and shall not be altered by the Subdivider or subsequent owners.

E. There is attached hereto a Waiver waiving the right to protest the creation of the special improvement district or districts which by this reference is expressly incorporated herein and made as much a part hereof as though fully and completely set forth herein at this point. The Waiver will be filed with the plat, shall run with the land, and shall constitute the guarantee by the Subdivider and property owner or owners of the developments described herein. Said Waiver is effective upon filing and is not conditioned on the completion of the conditions set forth in this Agreement. The Subdivider and owner specifically agree that they are waiving valuable rights and do so voluntarily.

III. TRANSPORTATION

A. Streets

No public right-of-ways, paving, sidewalks, street lighting, traffic control devices, or curb and gutter are proposed for this subdivision. The proposed subdivision is not part of the BABTMP.

Access to the single lot is provided via either Lake Heights Drive or Ditton Drive. As only a single lot is proposed, public transit access is not provided for the Subdivision.

IV. EMERGENCY SERVICE

The existing access provided by Ditton Drive and Lake Heights Drive to the edge of the property will act as emergency access to the edges of the property. No additional access is proposed.

V. STORM DRAINAGE

No facilities are to be constructed on the proposed single lot. As such, no storm drainage is proposed. Storm drainage will remain as has historically taken place on the property.

VI. UTILITIES

This subdivision consists of a single lot and there is no proposal to build on the single lot so utilities are not proposed.

VII. PARKS/OPEN SPACE

The parkland dedication for the proposed subdivision was met previously during the Lake Hills Subdivision 25th Filing.

VIII. IRRIGATION

Irrigation is not proposed for the vacant lot. Irrigation facilities and water rights or agreements do not currently exist for this lot.

IX. SOILS/GEOTECHNICAL STUDY

No facilities are proposed for the vacant lot. As such, a geotechnical study is not included.

X. FINANCIAL GUARANTEES

Except as otherwise provided, Subdivider shall install and construct said required improvements with cash or by utilizing the mechanics of a special improvement district or private contracts secured by letters of credit or a letter of commitment to lend funds from a commercial lender. All engineering and legal work in connection with such improvements shall be paid by the contracting parties pursuant to said special improvement district or private contract, and the improvements shall be installed as approved by the City Engineer and Utility Department Manager.

XI. LEGAL PROVISIONS APPLYING TO SUBDIVIDER

A. Subdivider agrees to guarantee all public improvements for a period of one year from the date of final acceptance by the City of Billings.

B. The owners of the properties involved in this proposed Subdivision by signature subscribed herein below agree, consent, and shall be bound by the provisions of this Agreement.

C. The covenants, agreements, and all statements in this Agreement apply to and shall be binding on the heirs, personal representatives, successors and assigns of the respective parties.

D. No water rights have been transferred to the lot owners. Irrigation ditches that exist on the perimeter of this development are for the benefits of other properties. Perimeter ditches and drains shall remain in place and shall not be altered by the Subdivider or subsequent owners.

E. Any amendments or modifications of this Agreement or any provisions herein shall be made in writing and executed in the same manner as this original document and shall after execution become a part of this Agreement.

F. Subdivider shall comply with all applicable federal, state, and local statutes, ordinances, and administrative regulations during the performance and discharge of its obligations. Subdivider acknowledges and agrees that nothing contained herein shall relieve or exempt it from such compliance.

IN WITNESS WHEREOF, the parties hereto have set their hands and official seals on the date first above written.

"SUBDIVIDER"

H. THOMAS LLEWELLYN
NOTARY PUBLIC for the
State of Montana
Residing at Billings, Montana
My Commission Expires
November 25, 2022

SEAL — NOTARIAL — THOMAS LLEWELLYN — STATE OF MONTANA

Canal Vista, LLC

By: Laura Taylor

Its: Member

STATE OF MONTANA)
: ss
County of Yellowstone)

On this 23rd day of July, 2019, before me, a Notary Public in and for the State of Montana, personally appeared Laura Taylor, known to me to be the a member of **Canal Vista, LLC**, who executed the foregoing instrument and acknowledged to me that he/she executed the same.

H Thomas Llewellyn

Notary Public in and for the State of Montana
Printed Name: H. Thomas Llewellyn
Residing at: _____
My commission expires: _____

This agreement is hereby approved and accepted by the City of Billings, this _____ day of _____, 20__.

"CITY"
CITY OF BILLINGS
MONTANA

By: _____
Mayor

Attest: _____
City Clerk

STATE OF MONTANA)
: ss
County of Yellowstone)

On this_____day of_____, 20__, before me, a Notary Public in and for the State of Montana, personally appeared _____ and _____, known to me to be the Mayor and City Clerk, respectively, of the City of Billings, Montana, whose names are subscribed to the foregoing instrument in such capacity and acknowledged to me that they executed the same on behalf of the City of Billings, Montana.

_____
Notary Public in and for the State of Montana
Printed Name: _____
Residing at: _____
My commission expires: _____

Waiver of Right to Protest

FOR VALUABLE CONSIDERATION, the undersigned, being the Subdivider and all of the owners of the hereinafter described real property, do hereby waive the right to protest the formation of one or more special improvement district(s) for a period of no more than twenty years from the recording date of this waiver, for street light maintenance and energy, and for the construction of streets, street widening, sidewalks, survey monuments, street name signs, curb and gutter, street lights, driveways, traffic signals, and traffic control devices, parks and park maintenance, trails, sanitary sewer lines, water lines, storm drains (either within or outside the area), and other improvements incident to the above which the City of Billings may require.

This Waiver and Agreement is independent from all other agreements and is supported by sufficient independent consideration to which the undersigned are parties, and shall run with the land and shall be binding upon the undersigned, their successors and assigns, and the same shall be recorded in the office of the County Clerk and Recorder of Yellowstone County, Montana.

The real property hereinabove mentioned is more particularly described as follows:

Lake Hills Subdivision 25th Filing Amended

Signed and dated this_____day of_____, 20__.

Canal Vista, LLC/Owner
By: Laura Taylor
Its: Member

STATE OF MONTANA)
: ss
County of Yellowstone)

On this 23d day of July, 2019, before me, a Notary Public in and for the State of Montana, personally appeared Laura Taylor, known to me to be *Canal Vista, LLC*, the person who executed the forgoing instrument and acknowledged to me that he/she executed the same.

IN WITNESS WHEROF, I have hereunto set my hand and affixed my Notarial Seal the day and year hereinabove written.

H. Thomas Llewellyn
Notary Public in and for the State of Montana
Printed name: H. Thomas Llewellyn
Residing in Billings, Montana
My commission expires:_____

H. THOMAS LLEWELLYN NOTARIAL SEAL STATE OF MONTANA
H. THOMAS LLEWELLYN
NOTARY PUBLIC for the
State of Montana
Residing at Billings, Montana
My Commission Expires
November 25, 2022

PLAT OF

LAKE HILLS SUBDIVISION - TWENTY-FIFTH FILING AMENDED

BEING A VACATION OF
LOTS 1-13, BLOCK 62, LOTS 1-11, BLOCK 63, AND LOTS 1-7, BLOCK 65,
A VACATED PORTION OF LAKE HEIGHTS DRIVE AND DITTON DRIVE RESOLUTION 19-10786, DOCUMENT NO. 3878991
WITHIN LAKE HILLS SUBDIVISION - TWENTY-FIFTH FILING
WITHIN W1/2SE1/4 OF SECTION 9, T01N, R26E, P.M.M.
CITY OF BILLINGS, YELLOWSTONE COUNTY, MONTANA

PREPARED FOR: CANAL VISTA, LLC.
DATE SURVEYED: AUGUST 2018

CERTIFICATE OF COUNTY TREASURER

I hereby certify that all real property taxes and special assessments have been paid per 76-3-611(1)(b) / 76-3-207(3), M.C.A.

Date: _____

Yellowstone County Treasurer

By: _____
Deputy

CERTIFICATE OF RIVERSTONE HEALTH

This Certificate of Survey has been reviewed and approved by the Riverstone Health and the State Department of Environmental Quality.

_____
Health Officer or Authorized Representative
Yellowstone City/County Health Department
dba Riverstone Health

CERTIFICATE OF CITY ATTORNEY

This document has been reviewed by the City of Billings Attorney's Office and is acceptable as to form.

_____
City Attorney or Authorized Representative
City of Billings Attorney's Office

_____
Date

NOTICE OF APPROVAL

STATE OF MONTANA)
: ss
County of Yellowstone)

This plat has been approved for filing by the City of Billings/Yellowstone County Board of Planning and conforms to the recommendations of this board.

_____ _____
President Date

_____ _____
Executive Secretary Date

CERTIFICATE OF APPROVAL

STATE OF MONTANA)
: ss
County of Yellowstone)

We do hereby certify that we have examined the plat of LAKE HILLS SUBDIVISION - TWENTY-FIFTH FILING AMENDED, and find that said plat conforms with the requirements of the laws of the State of Montana and that the requirements for park donation have been met to the satisfaction of the City of Billings/Yellowstone County Board of Planning. It is therefore approved and the dedication to the public use of any and all lands sown on this plat as being dedicated to such use are accepted.

IN WITNESS WHEREOF, we have set our hands and the seal of City of Billings, Montana, this _____ day of _____, 20___

_____
Mayor

Attest: _____
Clerk and Recorder

CERTIFICATE OF CITY ENGINEER'S OFFICE

I hereby certify that the annexed and forgoing plat conforms with Section 76-4-125(2)(d), M.C.A. for the removal of sanitary restrictions since the plat is inside a master planning area and said lots will be provided with municipal facilities for the supply of water and the disposal of sewage and solid waste.

IN WITNESS WHEREOF, I have executed this CERTIFICATE OF APPROVAL this _____ day of _____, 20___

_____
City Engineer's Office

LEGAL DESCRIPTION AND PROPERTY OWNER CERTIFICATIONS

STATE OF MONTANA)
: ss
County of Yellowstone)

A tract of land located within the Lake Hills Subdivision - Twenty-Fifth Filing being Lots 1-13 of Block 62, Lots 1-11 of Block 63, Lots 1-7 of Block 65, and a vacated portion of Lake Heights Drive and Ditton Drive, Resolution 19-107856, Document No. 3878991 within W1/2SE1/4 of Section 9, T1N, R26E, P.M.M., City of Billings, Yellowstone County, Montana, being more particularly described by metes and bounds as follows:

Beginning at the rebar at the northwest corner of Block 65 of Lake Hills Subdivision - Twenty-Fifth Filing and the northeasterly corner of Sally Ann Park; thence along the north line of said Block 65 for the next two calls, N89°14'30"E, 414.93 feet to a rebar; thence S73°06'19"E, 166.97 feet to the rebar at the northeast corner of said Block 65; thence along the east line of said Block 65, S17°42'59"E, 163.06 feet to rebar at the southeast corner of said Block 65; thence across vacated Lake Hills Drive and along the east line of Block 62 of Lake Hills Subdivision - Twenty-Fifth Filing for the next 5 calls , S04°24'59"E, 193.76 feet to an iron pipe; thence S14°06'51"E, 269.86 feet to an iron pipe; thence S25°30'52"W, 273.90 feet to an aluminum cap; thence S13°42'29"E, 115.28 feet to a rebar; thence S47°48'31"E, 239.69 feet to aluminum cap at the southeast corner of Lot 13 and northeast corner of Lot 17 of said Block 62; thence along the north line of Lots 14, 15, 16, and 17 of said Block 62, S88°50'30"W, 359.75 feet to the rebar at the northwest corner of said Lot 14 and a point in the east line of Ditton Drive; thence along the east line of Ditton Drive, N01°10'54"W, 72.83 feet to an aluminum cap; thence across Ditton Drive and along the north line of Lot 12of Block 63 of Lake Hills Subdivision - Twenty-Fifth Filing, S88°53'21"W, 260.38 feet to iron pipe at the northwest corner of said Lot 12; thence along the east line of Lot 18 of said Block 63, N00°36'20"W, 74.86 feet to an aluminum cap; thence along the east line of Lots 19, 20, 21, 22, 23, 24, and 25 of said Block 63, N01°06'02"W, 525.84 feet to the iron pipe at the southeast corner of Lot 26 of said Block 63; thence along the east line of said Lot 26, N02°04'25"W, 74.42 feet to the iron pipe at the southeast corner of Lot 27 of said Block 63; thence along the east line of said Lot 27, N01°05'48"W, 80.05 feet to the iron pipe at the northeast corner of said Lot 27; thence along the north line of said Lot 27, S88°49'27"W, 200.07 to the aluminum cap at the northwest corner of said Lot 27 and a point in the east line of Lake Heights Drive; thence along the westerly line of said Lot 28 and the easterly line of Lake Heights Drive, 141.22 feet along a non-tangent curve to the right having a radius of 90.00 feet, a central angle of 89°54'24", a chord bearing of N43°47'18"E, and a chord length of 127.18 feet to an iron pipe; thence across Lake Heights Drive, N35°36'59"W, 66.81 feet to an aluminum cap at the southwest corner said Block 65, the southeasterly corner of Sally Ann Park, and a point in the northerly line of Lake Heights Drive; thence along the west line of said Block 65 and the east line of said Sally Ann Park, N01°09'04"W, 215.89 feet to the Point of Beginning.

Said tract of land contains 13.91 acres, more or less, and is subject to any easements, reservations, or other encumbrances that have been legally acquired

Said tract shall be known and designated as "LAKE HILLS SUBDIVISION - TWENTY-FIFTH FILING AMENDED"

We hereby certify that the purpose of this survey is to vacate a portion of Lake Hills Subdivision - Twenty-Fifth Filing pursuant M.C.A. 76-3-305; any plat prepared and recorded as provided in this part may be vacated either in whole or in part as provided by 7-5-2501, 7-5-2502, 7-14-2616(1), and (2), 7-14-4114(1) and (2), and 7-14-4115. Upon vacation, the governing body or the district court, as provided in 7-5-2502, shall determine to which properties the title to the streets and alleys of the vacated portions must revert. The governing body or the district court, as provided in 7-5-2502, shall take into consideration the previous platting; the manner in which the right-of-way was originally dedicated, granted, or conveyed; the reasons stated in the petition requesting the vacation; the parties requesting the vacation; and any agreements between adjacent property owners regarding the use of the vacated area. The title to the streets and alleys of the vacated portions may revert to one or more of the owners of the properties within the platted area adjacent to the vacated portions.

CANAL VISTA, LLC.

By: _____

Title: _____

STATE OF MONTANA)
: ss
County of Yellowstone)

Subscribed and sworn to before me, a Notary Public in and for the State of Montana, this _____ day of _____, 20___, personally appeared _____, known to me to be the person who signed the foregoing instrument as _____ of CANAL VISTA, LLC., and acknowledged to me that said corporation executed the same. Witness my hand and seal the day and year herein above written.

_____
Notary Public in and for the State of Montana
Printed Name _____
Residing at _____
My commission expires _____

CERTIFICATE OF EXAMINING LAND SURVEYOR

I hereby certify that I have examined the annexed and foregoing plat for errors and omissions in computations and drafting and find said plat conforms with the requirements of the laws of the State of Montana, and that said plat conforms to the adjoining additions and plats of the City of Billings already platted as nearly as circumstances will permit.

_____
Examining Land Surveyor

Reg. No. _____ Date: _____

CERTIFICATE OF SURVEYOR

STATE OF WYOMING)
: ss
County of Natrona)

The undersigned, a Montana Registered Land Surveyor being first duly sworn, deposes and says that during the month August 2018, a survey was performed under his supervision of a tract of land to be known as LAKE HILLS SUBDIVISION - TWENTY-FIFTH FILING AMENDED, in accordance with the request of the owner thereof and in conformance with Montana Subdivision and Platting Act; said subdivision being in accordance with the Certificate of Dedication and as shown on the plat; that the monuments found and set are of the character and occupy the positions hereon.

Dated the 23 day of July, 2019

Paul A. Heintz
Registration Number 41531 LS

MONTANA PAUL A. HEINTZ No. 41531LS LICENSED PROFESSIONAL LAND SURVEYOR

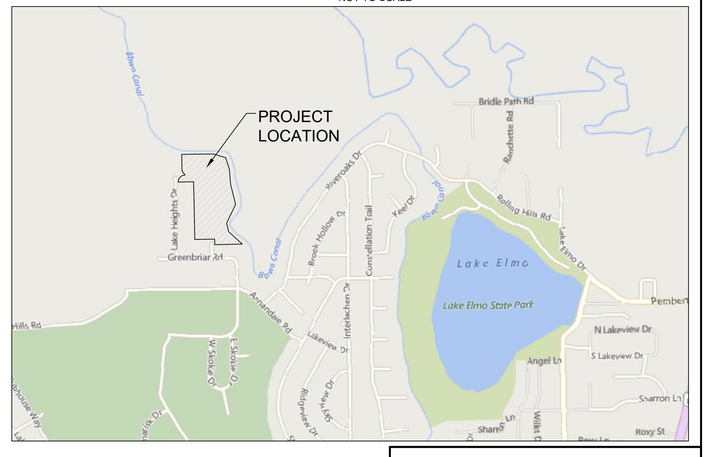
Subscribed and sworn to before me, a Notary Public in and for the State of Wyoming, this 23 day of July, 2019

Notary Public in and for the State of Wyoming
Printed Name LAREE LAFFERTY
Residing at Natrona County
My commission expires FEB 26, 2022

NOTARY PUBLIC STATE OF WYOMING LAREE LAFFERTY COUNTY OF NATRONA MY COMMISSION EXPIRES FEB 26, 2022

VICINITY MAP

NOT TO SCALE



CANAL VISTA, LLC.

JOB#: 2018-147

REVISIONS	
Date	By

WWC ENGINEERING
51 N 15th STREET, SUITE 1
BILLINGS, MT 59101
(406) 894-2210

Drawn By: AMR | Checked By: PAH | Date: DEC. 2018 | Scale: 1" = 60"

PLOT STYLE: WWC COLOR.ctb
PLOTTED: FILE PATH: K:\Billings\SUB\1974\DWG\SURVEY\Canal Vista_VACATE PLAT.dwg

SHEET 1 OF 2

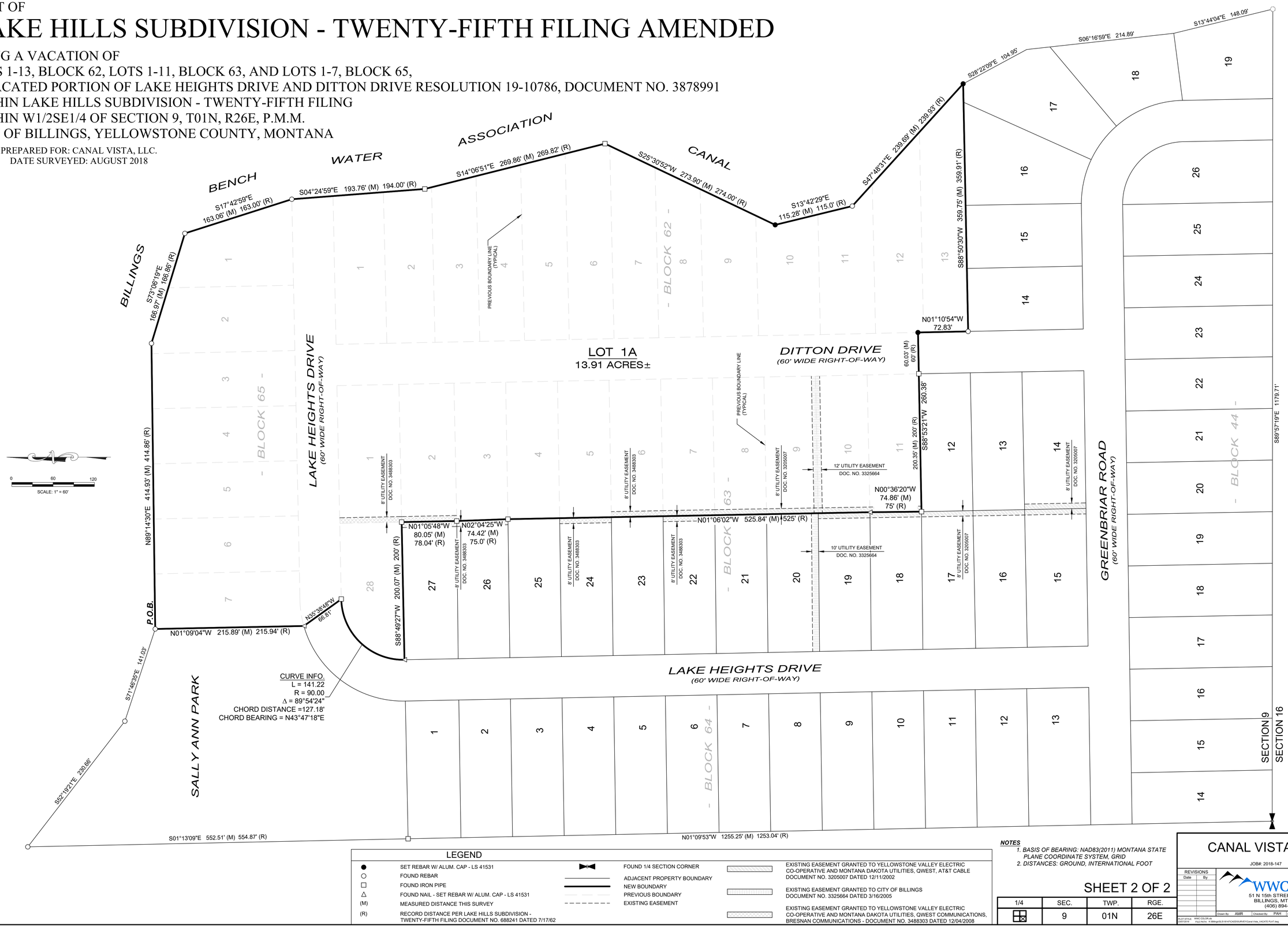
1/4	SEC.	TWP.	RGE.
	9	01N	26E

PLAT OF

LAKE HILLS SUBDIVISION - TWENTY-FIFTH FILING AMENDED

BEING A VACATION OF
LOTS 1-13, BLOCK 62, LOTS 1-11, BLOCK 63, AND LOTS 1-7, BLOCK 65,
A VACATED PORTION OF LAKE HEIGHTS DRIVE AND DITTON DRIVE RESOLUTION 19-10786, DOCUMENT NO. 3878991
WITHIN LAKE HILLS SUBDIVISION - TWENTY-FIFTH FILING
WITHIN W1/2SE1/4 OF SECTION 9, T01N, R26E, P.M.M.
CITY OF BILLINGS, YELLOWSTONE COUNTY, MONTANA

PREPARED FOR: CANAL VISTA, LLC.
DATE SURVEYED: AUGUST 2018



CURVE INFO.
L = 141.22
R = 90.00
Δ = 89°54'24"
CHORD DISTANCE =127.18'
CHORD BEARING = N43°47'18"E

LEGEND

● SET REBAR W/ ALUM. CAP - LS 41531	FOUND 1/4 SECTION CORNER	EXISTING EASEMENT GRANTED TO YELLOWSTONE VALLEY ELECTRIC CO-OPERATIVE AND MONTANA DAKOTA UTILITIES, QWEST, AT&T CABLE DOCUMENT NO. 3205007 DATED 12/11/2002
○ FOUND REBAR	ADJACENT PROPERTY BOUNDARY	
□ FOUND IRON PIPE	NEW BOUNDARY	EXISTING EASEMENT GRANTED TO CITY OF BILLINGS DOCUMENT NO. 3325664 DATED 3/16/2005
△ FOUND NAIL - SET REBAR W/ ALUM. CAP - LS 41531	PREVIOUS BOUNDARY	
(M) MEASURED DISTANCE THIS SURVEY	EXISTING EASEMENT	EXISTING EASEMENT GRANTED TO YELLOWSTONE VALLEY ELECTRIC CO-OPERATIVE AND MONTANA DAKOTA UTILITIES, QWEST COMMUNICATIONS, BRESNAN COMMUNICATIONS - DOCUMENT NO. 3488303 DATED 12/04/2008
(R) RECORD DISTANCE PER LAKE HILLS SUBDIVISION - TWENTY-FIFTH FILING DOCUMENT NO. 688241 DATED 7/17/62		

NOTES

1. BASIS OF BEARING: NAD83(2011) MONTANA STATE PLANE COORDINATE SYSTEM, GRID
2. DISTANCES: GROUND, INTERNATIONAL FOOT

SHEET 2 OF 2

1/4	SEC.	TWP.	RGE.
	9	01N	26E

CANAL VISTA, LLC.

JOB#: 2018-147

REVISIONS	
Date	By

WWC ENGINEERING
51 N 15th STREET, SUITE 1
BILLINGS, MT 59101
(406) 894-2210

Drawn By: AMR | Checked By: PAH | Date: DEC. 2018 | Scale: 1" = 60"

PLOT STYLE: WWC COLOR.ctb
PLOT DATE: 12/07/2019
FILE PATH: K:\Billings\BILS1801\ACAD\SURVEY\Canal Vista_VACATE PLAT.dwg

Consent **1. M. 1.**

Regular City Council Meeting

Meeting Date: 08/12/2019

TITLE: Payment of Claims for the week of July 1, 2019

PRESENTED BY: Andy Zoeller

Department: City Hall Administration

Presentation: No

PROBLEM/ISSUE STATEMENT

Claims in the amount of $1,045,000.33 have been audited and are presented for City Council payment approval. A complete listing of the claims for the week are available in the Finance Department.

ALTERNATIVES ANALYZED

No other alternatives were analyzed.

FINANCIAL IMPACT

Claims have a varying impact on department budgets, but are submitted by the departments and reviewed by Finance staff before being sent to the Council.

RECOMMENDATION

Staff recommends Council approve the Payment of Claims.

APPROVED BY CITY ADMINISTRATOR

Attachments

councilmemo_07012019

Check Date	Check#	Name	Fund Name		Amount	Item Desc
07/01/2019	824527	Montana & Wyoming Oil Company	Sidewalk Debt Svc	$	11,922.25	Bonds SW2009
07/01/2019	824528	Montana Municipal Cooperative	SID Fund	$	37,689.00	Bonds 2015A
07/01/2019	824528	Montana Municipal Cooperative	Sidewalk Debt Svc	$	3,187.50	Bonds SW2013
07/01/2019	824528	Montana Municipal Cooperative	Sidewalk Debt Svc	$	5,407.50	Bonds SW2014
07/01/2019	824528	Montana Municipal Cooperative	SID Fund	$	1,912.50	Bonds 1393
07/01/2019	824528	Montana Municipal Cooperative	SID Fund	$	762.50	Bonds 1394
07/01/2019	824528	Montana Municipal Cooperative	SID Fund	$	46,905.00	Bonds SID 2018A
07/01/2019	824528	Montana Municipal Cooperative	Sidewalk Debt Svc	$	10,086.17	Bonds SW2017
07/01/2019	824529	Purinton Family Trust	Sidewalk Debt Svc	$	4,625.00	Bonds SW2015
07/01/2019	824529	Purinton Family Trust	Sidewalk Debt Svc	$	21,100.00	Bonds SW2016
07/01/2019	824530	Royal C. Johnson Irrevocable Trust	Sidewalk Debt Svc	$	17,625.00	bonds SW2011
07/01/2019	824530	Royal C. Johnson Irrevocable Trust	SID Fund	$	8,890.00	Bonds 1389
07/01/2019	824530	Royal C. Johnson Irrevocable Trust	SID Fund	$	3,945.00	bonds 1398
07/01/2019	824530	Royal C. Johnson Irrevocable Trust	Sidewalk Debt Svc	$	10,431.25	bonds SW2008
07/01/2019	824530	Royal C. Johnson Irrevocable Trust	SID Fund	$	25,845.00	bonds 1395
07/01/2019	824530	Royal C. Johnson Irrevocable Trust	Sidewalk Debt Svc	$	173,000.00	bonds SW2018
07/01/2019	824531	Scott Johnson	Sidewalk Debt Svc	$	7,500.00	Bonds SW2018
07/01/2019	824532	Swank Enterprises	Solid Waste	$	688,596.48	WO 17-12 Landfill Reconfig

Consent **1. M. 2.**

Regular City Council Meeting

Meeting Date: 08/12/2019

TITLE: Payment of Claims for the week of July 8, 2019

PRESENTED BY: Andy Zoeller

Department: City Hall Administration

Presentation: No

PROBLEM/ISSUE STATEMENT

Claims in the amount of $2,097,961.04 have been audited and are presented for City Council payment approval. A complete listing of the claims for the week of July 8, 2019 are available in the Finance Department.

ALTERNATIVES ANALYZED

No other alternatives were analyzed.

FINANCIAL IMPACT

Claims have a varying impact on department budgets, but are submitted by the departments and reviewed by Finance staff before being sent to the Council.

RECOMMENDATION

Staff recommends Council approve the Payment of Claims.

APPROVED BY CITY ADMINISTRATOR

Attachments

Council Memo for week of July 8, 2019

Check Date	Check	Name	Fund Name	Amount	Item Desc
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 10.09	Carquest 3103 - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 399.00	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 366.58	Yellowstone Valley Elect - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 429.00	The Sheridan Press - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 199.95	Heights Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Transit	$ 41.85	Fishers Technology - PCard
07/08/2019	84	U.S. Bank PCards	Transit	$ (49.95)	Realty *Trac Subscrption - PCard
07/08/2019	84	U.S. Bank PCards	Transit	$ 34.33	Amzn Mktp Us*M66Vi0A62 Am - PCard
07/08/2019	84	U.S. Bank PCards	Transit	$ 45.41	Creative Bus Sales Az - PCard
07/08/2019	84	U.S. Bank PCards	Transit	$ (17.90)	Northwest Pipe Fittings - PCard
07/08/2019	84	U.S. Bank PCards	Central Services	$ 108.30	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 43.48	Carquest 3103 - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 42.95	Gm Service Center - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 159.40	Johnson Controls Ss - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 113.73	Norco Inc - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 39.99	Best Buy 00005926 - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 32.10	Hose & Rubber Supply Blg - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 577.00	Billings Overhead Door In - PCard
07/08/2019	84	U.S. Bank PCards	Transit	$ 56.25	Big Sky Linen And Unif - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 1,150.00	Billings Overhead Door In - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 586.63	Graybar Electric - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 15.61	Napa Store 3547001 - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 345.00	Midland Implement Co - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 20.28	Smartsign - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 28.75	Culligan Billings - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 120.75	Nwestco - 002 - PCard
07/08/2019	84	U.S. Bank PCards	Transit	$ 285.16	Creative Bus Sales Az - PCard
07/08/2019	84	U.S. Bank PCards	Transit	$ 336.10	Big Sky Linen And Unif - PCard
07/08/2019	84	U.S. Bank PCards	Transit	$ 48.96	Big Sky Linen And Unif - PCard
07/08/2019	84	U.S. Bank PCards	Transit	$ 7.99	Amazon.Com*M60Ui7En1 - PCard
07/08/2019	84	U.S. Bank PCards	Transit	$ 39.47	Veritiv-West - PCard
07/08/2019	84	U.S. Bank PCards	Fleet	$ 650.00	Helm-Ford Diag Software - PCard
07/08/2019	84	U.S. Bank PCards	Central Services	$ 144.40	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Central Services	$ 189.20	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Information Resources	$ 7.99	Amzn Mktp Us*M65674Fm0 Am - PCard
07/08/2019	84	U.S. Bank PCards	City Health Ins Fund	$ 165.00	Pita Pit - 14-025-Mt - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 4.98	Office Depot #450 - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 498.00	Trugreen Chemlawn - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 132.50	Ah Turf Specialties Inc - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 68.17	Heartland Paper Company - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 476.32	Norco Inc - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 267.50	Sq *Rolling Right Door Se - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 807.25	Big Sky Linen And Unif - PCard
07/08/2019	84	U.S. Bank PCards	Transit	$ 168.75	Big Sky Linen And Unif - PCard
07/08/2019	84	U.S. Bank PCards	Fleet	$ 280.00	Indeed - PCard

Check Date	Check	Name	Fund Name	Amount	Item Desc
07/08/2019	84	U.S. Bank PCards	Fleet	$ 371.61	Big Sky Linen And Unif - PCard
07/08/2019	84	U.S. Bank PCards	Central Services	$ 72.20	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	City Health Ins Fund	$ 2.50	Albertsons #4025 - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 144.00	Garden Avenue Greenhous - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 150.72	Ace Electric - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 170.00	4Te*Kenco Security And Te - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 37.98	Lowes #00319* - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 15.00	Ah Turf Specialties Inc - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 7.98	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 25.97	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 450.00	Stanley Steemer/Bllngs - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 390.00	The Sign Store - PCard
07/08/2019	84	U.S. Bank PCards	Parks Maintenance	$ 117.00	Billings Nursery S Fronta - PCard
07/08/2019	84	U.S. Bank PCards	Parks Maintenance	$ 38.35	In *Canyon Creek Nursery - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 250.00	Alpine Plumbing Heating I - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 400.00	Stanley Steemer/Bllngs - PCard
07/08/2019	84	U.S. Bank PCards	P.W. Admin	$ 89.89	Amazon.Com*M697L8Ge1 Amzn - PCard
07/08/2019	84	U.S. Bank PCards	Engineering	$ 38.40	4Te*Kenco Security And Te - PCard
07/08/2019	84	U.S. Bank PCards	Engineering	$ 997.00	Fishers Technology - PCard
07/08/2019	84	U.S. Bank PCards	Parks Maintenance	$ 207.58	Yellowstone Valley Elect - PCard
07/08/2019	84	U.S. Bank PCards	Parks Maintenance	$ 168.00	Garden Avenue Greenhous - PCard
07/08/2019	84	U.S. Bank PCards	Parks Maintenance	$ 220.73	Midland Implement Co - PCard
07/08/2019	84	U.S. Bank PCards	Transit	$ 9.73	Lowes #00319* - PCard
07/08/2019	84	U.S. Bank PCards	Information Resources	$ 115.00	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 27.89	Amazon.Com*M60Cd0811 Amzn - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 269.67	Hanson Chemical - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 225.00	Air Controls-Billings - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 13.98	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 12.50	4Te*Kenco Security And Te - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 22.26	Lowes #00319* - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 83.40	Edge Construction Supp - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 17.48	Shipton'S Big R-East - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 16.94	Amzn Mktp Us*M655661M2 Am - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 714.00	Dana Safety Supply - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 144.20	In *Cynthia Boyer - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 3.50	West End Lock And Secur - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 377.07	Pcm Tigerdirect - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 349.00	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 43.56	Costco Whse #0069 - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 32.00	Big Sky Linen & Uniform - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 66.96	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 349.00	Kone, Inc. - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 8.57	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 30.00	Sq *Skyline Service - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 21.00	Big Sky Linen And Unif - PCard

Check Date	Check	Name	Fund Name	Amount	Item Desc
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 34.94	Laborlawcenter, Inc - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 81.60	Edge Construction Supp - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 4.48	Tractor-Supply-Co #0303 - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 22.90	Shipton'S Big R-East - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 19.11	Fedex 32719531 - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 72.10	In *Cynthia Boyer - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 587.69	Evident Inc - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 3.98	Conoco - Conomart Vii - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 531.10	La Quinta Inn & Suites - PCard
07/08/2019	84	U.S. Bank PCards	P.W. Admin	$ (67.80)	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Engineering	$ 423.36	Selby'S - PCard
07/08/2019	84	U.S. Bank PCards	Police Programs	$ 77.23	Pcm 800-5556255 - PCard
07/08/2019	84	U.S. Bank PCards	Parks Maintenance	$ 120.00	Northwest Pipe Fittings, - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 89.86	Ah Turf Specialties Inc - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 576.00	Creative Monograms Smb - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 106.98	Batteries+Bulbs #0253 - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 13.00	Universal Awards - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 29.52	Wal-Mart #1956 - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 7.19	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 54.97	Shipton'S Big R-West - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 65.00	Energy Laboratories Inc - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 38.66	Graybar Electric - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 387.42	Napa Store 3547001 - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 28.72	Spencer Fluid Power - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 11.97	Heights Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 1,905.00	Peavey Corp. - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 134.98	Wal-Mart #1956 - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 538.50	Best Friends Animal Hosp - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 151.10	Moore Lane Vaterinary Hos - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 118.40	Party Time Plus - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 100.00	Paypal *Iccmtchapte - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 349.00	Sp * Nebulus Web Store - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 143.52	Costco Whse #0069 - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 199.00	Havis Inc - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 240.00	B&H Photo 800-606-6969 - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 1,299.00	B&H Photo 800-606-6969 - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 855.05	Peterson Quality Office I - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 855.05	Peterson Quality Office I - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 61.38	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ (293.14)	Staybridge Sts Grt Falls - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 307.74	Staybridge Sts Grt Falls - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 53.16	Norco Inc - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 136.56	Norco Inc - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 83.88	Midland Implement Co - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 708.55	Sherwin Williams 703203 - PCard

Check Date	Check	Name	Fund Name	Amount	Item Desc
07/08/2019	84	U.S. Bank PCards	Airport	$ 2,494.50	Village Gardens - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 14.38	Napa Store 3547001 - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 310.00	Billings Overhead Door In - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 77.46	Grainger - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 108.66	J J Keller & Associates - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 93.00	Lesman Iron Works - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 131.98	Hanson Chemical - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 88.19	Tacoma Screw Products B - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 28.97	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 140.00	Lesman Iron Works - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 53.98	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 239.70	General Shale-Billings - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 15.65	Wal-Mart #2923 - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 140.42	Hanson Chemical - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 29.47	Batteries+Bulbs #0253 - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 43.73	Paypal *Priindustri - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 120.63	Tacoma Screw Products B - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 14.99	Fedex 930374625247 - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 59.98	Heights Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 386.62	Fastenal Company 01Mtbi1 - PCard
07/08/2019	84	U.S. Bank PCards	Fire Grants	$ (111.76)	La Quinta Inn & Suites - PCard
07/08/2019	84	U.S. Bank PCards	City County Planning	$ 74.90	Anc*Newspapers.Com - PCard
07/08/2019	84	U.S. Bank PCards	City County Planning	$ 15.94	Amzn Mktp Us*M613N3Ji2 - PCard
07/08/2019	84	U.S. Bank PCards	City County Planning	$ 348.00	Logmein*Gotomeeting - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 1,245.00	Billingsgazettethriftynck - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 21.91	Exxonmobil 45944386 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 109.00	Wal-Mart #1956 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 306.89	Hanson Chemical - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 1,068.78	Johnstone Supply Billings - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 31.92	Office Depot #2135 - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 119.20	Big Sky Linen And Unif - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 475.00	Educate Llp - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 157.84	Midland Implement Co - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 51.00	Billings Clinic Homeox - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 115.95	Als Bootery And Repair Sh - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 93.85	Ecolab Pest Cs - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 1,798.00	Amazon.Com*M63Wh2Bb0 Amzn - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 485.99	Amzn Mktp Us*M613M04M0 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 118.61	Amzn Mktp Us*M65Cl14K0 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 182.76	Center Point Large Print - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 608.06	Cdw Govt #Sms4419 - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 35.64	Grainger - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 106.48	Office Depot #2135 - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 68.85	B&H Photo 800-606-6969 - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 110.07	Ecolab Pest Cs - PCard

Check Date	Check	Name	Fund Name	Amount	Item Desc
07/08/2019	84	U.S. Bank PCards	Transit	$ 169.39	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Information Resources	$ 12.46	Amzn Mktp Us*M66Ik0I41 Am - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 16.99	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 8.98	Lowes #00319* - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 183.42	Grainger - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 130.00	Alpine Plumbing Heating I - PCard
07/08/2019	84	U.S. Bank PCards	Engineering	$ 313.08	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ (8.39)	Harbor Freight Tools 207 - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ (9.31)	Carquest 3103 - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 2,200.00	Hansers Wrecker Company - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 37.00	Wild Ginger - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 62.02	Conoco - Eddies Corner - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 102.00	Snappyduds - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 9.99	Billings Hardware & Ga - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 2.59	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 7.99	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ (0.94)	City Of Billings Parking - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 48.45	Kb Commercial Products - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 75.00	4Te*Kenco Security And Te - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 34.44	Wm Supercenter #4412 - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 70.37	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 1,918.16	Sundown Security - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 17.87	Fastenal Company 01Mtbi1 - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 170.00	Accent Print Shop - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 239.88	Adobe *Ps Creativecld - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 172.00	National Emergency Train - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 98.50	Jimmy Johns - 1646 - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 67.96	Office Depot #1080 - PCard
07/08/2019	84	U.S. Bank PCards	Building Inspection	$ 155.94	Quill Corporation - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 29.99	S Bar S Building Center - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 119.96	Billings Hardware & Se - PCard
07/08/2019	84	U.S. Bank PCards	Transit	$ 3.58	Lowes #00319* - PCard
07/08/2019	84	U.S. Bank PCards	Information Resources	$ 49.95	Amzn Mktp Us*M66Y83071 Am - PCard
07/08/2019	84	U.S. Bank PCards	Information Resources	$ 1,595.00	Rainfocvmware Vmworld - PCard
07/08/2019	84	U.S. Bank PCards	Information Resources	$ 119.88	Adobe *Photogphy Plan - PCard
07/08/2019	84	U.S. Bank PCards	Property Ins	$ 15.22	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 151.20	Ecolab Pest As400 - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 110.00	Sq *Skyline Service - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 13.84	4Te*Kenco Security And Te - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 77.50	Staleys Tire And Auto - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 6.41	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 26.47	Midland Implement Co - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 119.40	Northwest Pipe Fittings, - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 800.00	In *Canyon Creek Nursery - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 67.98	Shiptons Big R Heights - PCard

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07/08/2019	84	U.S. Bank PCards	General	$ 936.03	Fishers Technology - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 22.98	Cvs/Pharmacy #08944 - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 249.00	Havis Inc - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 126.18	In *Cynthia Boyer - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 495.00	Varidesk* 1800 207 2587 - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 1,778.95	B&H Photo 800-606-6969 - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 31.07	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 592.50	Lowes #00907* - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 17.23	Phillips 66 - United Paci - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 557.00	Moore Lane Vaterinary Hos - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 7.49	Billings Hardware & Se - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 128.98	Yellowstone Valley Elect - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 25.00	Heart Sole Race - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 289.00	Amzn Mktp Us*M62Wk1G90 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 1,077.79	Amzn Mktp Us*M64O04Q52 Am - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 10.99	Amzn Mktp Us*M69Ou2Fp1 Am - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 8.12	Target 00001719 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 36.46	Amzn Mktp Us*M63Jz3Ap0 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 26.04	Wal-Mart #2923 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 28.00	West End Lock And Secur - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 92.18	Wm Supercenter #2923 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 25.00	Facebk *8D5H9Mwvj2 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 156.00	Sq *The Grand Escap - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 8.49	Albertsons #0038 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 18.22	Wal-Mart #1956 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 39.99	Heights Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 27.92	Lowes #00319* - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 91.97	Fishers Technology - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 460.00	Bighorn Boots - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 159.00	Apl*Apple Online Store - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 39.94	Amzn Mktp Us*M61Bv6G01 Am - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 9.67	Amzn Mktp Us*M62Ou5Zv0 - PCard
07/08/2019	84	U.S. Bank PCards	CDBG	$ 152.11	Amazon.Com*Mn3Xh36E1 Amzn - PCard
07/08/2019	84	U.S. Bank PCards	CDBG	$ 123.98	Best Western Clock Tower - PCard
07/08/2019	84	U.S. Bank PCards	CDBG	$ 136.00	Sq *The Grand Escap - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 332.67	Zoro Tools Inc - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 13.26	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 900.00	Air Controls-Billings - PCard
07/08/2019	84	U.S. Bank PCards	Police Programs	$ 218.90	Wpsg, Inc - PCard
07/08/2019	84	U.S. Bank PCards	Police Programs	$ 47.45	Pcm 800-5556255 - PCard
07/08/2019	84	U.S. Bank PCards	Parks Maintenance	$ 20.24	Yellowstone Valley Elect - PCard
07/08/2019	84	U.S. Bank PCards	Parks Maintenance	$ 249.60	Sq *Rocky Mountain - PCard
07/08/2019	84	U.S. Bank PCards	Parks Maintenance	$ 374.40	Sq *Rocky Mountain - PCard
07/08/2019	84	U.S. Bank PCards	Parks Maintenance	$ 374.40	Sq *Rocky Mountain - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 8.39	Shipton'S Big R-East - PCard

Check Date	Check	Name	Fund Name	Amount	Item Desc
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 55.60	Edge Construction Supp - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 0.62	Pacific Steel #02 - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 14.99	Adobe *Acropro Subs - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 122.48	Office Depot #450 - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 175.00	In *Automatic Doors Of Mo - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 13.10	Fedex 787722337342 - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 204.40	Archie Cochrane Ford - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 499.99	Mac Tools - Billings - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 375.00	Vet-To-Go - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 38.00	Aaim Solutions - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 6.88	Amzn Mktp Us*M60G39T21 - PCard
07/08/2019	84	U.S. Bank PCards	Tax Increment South	$ 982.10	Econo Print - PCard
07/08/2019	84	U.S. Bank PCards	Building Inspection	$ 30.17	Costco Whse #0069 - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 1,227.45	Big Sky Linen And Unif - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 80.00	Selby'S - PCard
07/08/2019	84	U.S. Bank PCards	Municipal Court Grants	$ 745.00	Nadcp - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 90.00	Sq *Skyline Service - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 78.40	Billings Construction Sup - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 8.57	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 220.00	Refurbradios.Com - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 713.65	Big Sky Linen And Unif - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 132.50	Sq *Hotsy Wy-Mont - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 50.12	Interstate Battery Of The - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 11.97	At&T*Bill Payment - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 94.95	Tlf*Gainans Floral And G - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 100.00	Tlf*Gainans Floral And G - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 65.00	Energy Laboratories Inc - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 1,913.97	Sundown Security - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 43.40	Crescent Electric 054 - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 24.44	Graybar Electric - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 526.00	Qualified Hardware.Com - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 179.75	Big Sky Linen And Unif - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 73.31	Grainger - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 996.00	Creative Monograms Smb - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 55.00	Redd'S Prints And Signs I - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 85.00	Total Rental Inc - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 102.99	Workboots.Com - PCard
07/08/2019	84	U.S. Bank PCards	Transit	$ 139.50	Delta Air 0067365877919 - PCard
07/08/2019	84	U.S. Bank PCards	Transit	$ 13.98	Albertsons #1227 - PCard
07/08/2019	84	U.S. Bank PCards	Fleet	$ 414.00	Oil Price Info Serv - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 435.02	Yellowstone Valley Elect - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 54.40	Edge Construction Supp - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 191.03	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ (1.19)	City Of Billings Parking - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 11.15	Fedex 480200429 - PCard

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07/08/2019	84	U.S. Bank PCards	Parking	$ 31.92	Fedex 481814312 - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 311.75	In *Automatic Doors Of Mo - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 350.00	Alpine Plumbing Heating I - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 533.36	Crescent Electric 054 - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 115.00	Pp*Zeecreativeinc - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 173.32	Meadow Green Sales - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 23.98	The Home Depot #3101 - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 568.80	Tvetene Turf - PCard
07/08/2019	84	U.S. Bank PCards	Transit	$ 215.47	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Transit	$ 4.05	Expedia 7438998498629 - PCard
07/08/2019	84	U.S. Bank PCards	Transit	$ 120.74	Aaim Solutions - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 135.00	Big Sky Linen And Unif - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 24.99	Amzn Digital*M69Di4Bw1 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 76.64	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 233.84	Better Containers 800-831 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ (15.43)	Amazon.Com - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 51.96	Amazon.Com*Mn84805V2 Amzn - PCard
07/08/2019	84	U.S. Bank PCards	CDBG	$ 30.00	Jakes And Jakes Saloon - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 358.20	Mt Gov Online Trnsctns - PCard
07/08/2019	84	U.S. Bank PCards	Information Resources	$ 34.50	4Te*Kenco Security And Te - PCard
07/08/2019	84	U.S. Bank PCards	Information Resources	$ 159.84	1Password - PCard
07/08/2019	84	U.S. Bank PCards	Information Resources	$ 39.27	Grainger - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 71.00	4Te*Kenco Security And Te - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 270.00	Air Controls-Billings - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 818.90	Ace Electric - PCard
07/08/2019	84	U.S. Bank PCards	Engineering	$ 47.80	Fishers Technology - PCard
07/08/2019	84	U.S. Bank PCards	Engineering	$ 34.94	Laborlawcenter, Inc - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 319.58	Kb Commercial Products - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 211.59	Fastenal Company 01Mtbll - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 7.19	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 94.89	Norco Inc - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 170.00	Johnstone Supply Billings - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 65.00	Energy Laboratories Inc - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 1,806.88	Sundown Security - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 312.22	Kb Commercial Products - PCard
07/08/2019	84	U.S. Bank PCards	Police Programs	$ 185.50	Alg*Air 967Dhl - PCard
07/08/2019	84	U.S. Bank PCards	Parks Maintenance	$ 28.88	Lowes #00319* - PCard
07/08/2019	84	U.S. Bank PCards	Parks Maintenance	$ 247.34	Midland Implement Co - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 73.79	Northwest Industrial Supp - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 891.00	Gunarama Wholesale I - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 1,550.00	Beartooth Gun - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 47.84	Cenex Zip Trip07075708 - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 17.78	Costco Whse #0069 - PCard
07/08/2019	84	U.S. Bank PCards	Transit	$ 22.96	Wal-Mart #1956 - PCard
07/08/2019	84	U.S. Bank PCards	Transit	$ 139.94	Ecolab Pest As400 - PCard

Check Date	Check	Name	Fund Name	Amount	Item Desc
07/08/2019	84	U.S. Bank PCards	Transit	$ 16.95	Amzn Mktp Us*Mn0Xu3Dc2 Am - PCard
07/08/2019	84	U.S. Bank PCards	Transit	$ 614.92	Npc*New Pig Corp - PCard
07/08/2019	84	U.S. Bank PCards	Transit	$ 58.71	Big Sky Linen And Unif - PCard
07/08/2019	84	U.S. Bank PCards	Transit	$ 8.18	Lowes #00319* - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 190.68	Hanson Chemical - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 151.20	Ecolab Pest As400 - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 318.38	Hilton Garden Inn Ft C - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 315.96	Comfort Inn Bozeman - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 80.00	Mt Prof License Renew - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 14.71	Amzn Mktp Us*M61R93T31 Am - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 407.61	Hanson Chemical - PCard
07/08/2019	84	U.S. Bank PCards	Building Inspection	$ 240.00	Int'L Code Council Inc - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 59.94	The Home Depot #3101 - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 450.00	Amzn Mktp Us*Mn1G23Bf0 - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 874.32	Battery Systems Billings - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 30.98	Sams Club #4805 - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 97.50	Zeecreativeinc - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 166.26	Ecolab Pest Cs - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 1,240.00	In *Mjr Industries Inc. - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 8.37	Napa Store 3547007 - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 108.98	Tractor-Supply-Co #0303 - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 33.23	Crescent Electric 054 - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 9.62	Tacoma Screw Products B - PCard
07/08/2019	84	U.S. Bank PCards	EOC 911	$ 62.00	Msu-Bz-Confsvcsummer-Cm - PCard
07/08/2019	84	U.S. Bank PCards	City County Planning	$ 38.00	4Te*Geotix Event Tickets - PCard
07/08/2019	84	U.S. Bank PCards	Municipal Court Grants	$ 3.49	Albertsons #0038 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 333.00	Simply Family Magazine, I - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 35.45	Exxonmobil 45941721 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 566.98	B&H Photo 800-606-6969 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 313.10	Hanson Chemical - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 187.09	Norco Inc - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 8.67	Northwest Pipe Fittings, - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 24.00	Tvetene Turf - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 90.81	Amzn Mktp Us*M638K44Q1 - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 775.00	The Montana Quarterly - PCard
07/08/2019	84	U.S. Bank PCards	Transit	$ 340.00	Amzn Mktp Us*Mn5Yz96W2 - PCard
07/08/2019	84	U.S. Bank PCards	Transit	$ 35.26	Creative Bus Sales Az - PCard
07/08/2019	84	U.S. Bank PCards	Information Resources	$ 594.31	Rapidsupplies.Com - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 637.00	Kone, Inc. - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 550.00	Alpine Plumbing Heating I - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 418.00	Independent Lock And Par - PCard
07/08/2019	84	U.S. Bank PCards	P.W. Admin	$ (6.82)	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	P.W. Admin	$ 17.14	Graybar Electric Company - PCard
07/08/2019	84	U.S. Bank PCards	P.W. Admin	$ 9.60	4Te*Kenco Security And Te - PCard
07/08/2019	84	U.S. Bank PCards	P.W. Admin	$ 19.54	Hanson Chemical - PCard

Check Date	Check	Name	Fund Name	Amount	Item Desc
07/08/2019	84	U.S. Bank PCards	Engineering	$ 149.90	Aces - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 99.14	In *Cynthia Boyer - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 79.00	Valet Today Cleaners - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 51.57	Yellowstone Valley Elect - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 550.35	Residence Inn - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 30.48	Conoco - Eddies Corner - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 47.53	Hanson Chemical - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 45.84	Six Robblees No 6 - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 66.85	Tacoma Screw Products B - PCard
07/08/2019	84	U.S. Bank PCards	City Health Ins Fund	$ 2,178.00	Oakstone - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 71.88	Adobe *Pdf Pack Subs - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 174.61	Hanson Chemical - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 126.34	Heartland Paper Company - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 71.25	Independent Lock And Par - PCard
07/08/2019	84	U.S. Bank PCards	Police Programs	$ 98.00	Covert Track Group Inc - PCard
07/08/2019	84	U.S. Bank PCards	Police Programs	$ 1,200.00	Covert Track Group Inc - PCard
07/08/2019	84	U.S. Bank PCards	Municipal Court Grants	$ 704.50	United 0162455795235 - PCard
07/08/2019	84	U.S. Bank PCards	Engineering	$ 75.00	Bhy*Hba Of Billings - PCard
07/08/2019	84	U.S. Bank PCards	Municipal Court Grants	$ 137.37	Travel Guard Group Inc - PCard
07/08/2019	84	U.S. Bank PCards	Parks Maintenance	$ 245.59	Yellowstone Valley Elect - PCard
07/08/2019	84	U.S. Bank PCards	Parks Maintenance	$ 108.00	Billings Nursery S Fronta - PCard
07/08/2019	84	U.S. Bank PCards	Parks Maintenance	$ 160.00	Bobcat Of Big Sky Inc - PCard
07/08/2019	84	U.S. Bank PCards	Parks Maintenance	$ 200.17	Northwest Pipe Fittings, - PCard
07/08/2019	84	U.S. Bank PCards	Park District 1	$ 9.99	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Park District 1	$ 55.76	The Home Depot #3101 - PCard
07/08/2019	84	U.S. Bank PCards	Parks Programs	$ 209.00	International Bronze Plaq - PCard
07/08/2019	84	U.S. Bank PCards	Parks Maintenance	$ 19.45	Yellowstone Valley Elect - PCard
07/08/2019	84	U.S. Bank PCards	Parks Maintenance	$ 262.10	Midland Implement Co - PCard
07/08/2019	84	U.S. Bank PCards	Park District 1	$ 10.18	Garden Avenue Greenhous - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 390.00	Mt Gov Online Trnsctns - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 383.00	Gunarama Wholesale I - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 18.40	Wm Supercenter #2923 - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 2,128.40	Hilton Garden Inn - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 1,665.00	Sq *Skyline Service - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 349.00	Kone, Inc. - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 692.90	Fastenal Company 01Mtbll - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 240.00	F-M Forklift Sales & Svcs - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 712.52	Yellowstone Valley Elect - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 2,267.77	Sundown Security - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 238.44	Amzn Mktp Us*M66Vq1Dq2 - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 1,078.18	Montana Broom & Brush Co - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 97.52	Applied Ind Tech 2422 - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 8.99	Heights Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 76.01	Norco Inc - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ (187.09)	Norco Inc - PCard

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07/08/2019	84	U.S. Bank PCards	Airport	$ 60.00	Redd'S Prints And Signs I - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 1,053.00	Dxp Enterprises - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 118.51	Northwest Pipe Fittings, - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 150.00	Billings Overhead Door In - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 249.00	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	City County Planning	$ 12.99	Amazon Prime - PCard
07/08/2019	84	U.S. Bank PCards	City County Planning	$ 25.05	Big Sky Linen And Unif - PCard
07/08/2019	84	U.S. Bank PCards	Municipal Court Grants	$ 704.50	United 0162455795236 - PCard
07/08/2019	84	U.S. Bank PCards	Police Programs	$ 307.74	Hilton Garden Inn - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 3.46	Lowes #00319* - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 17.94	The Home Depot #3101 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 141.85	Hanson Chemical - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 150.00	Billings Army Navy Surplu - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 982.00	Gunarama Wholesale I - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 466.08	B&H Photo 800-606-6969 - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 27.45	Costco Whse #0069 - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 29.93	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 315.96	Comfort Inn Bozeman - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 80.00	Mt Prof License Renew - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 36.51	Conoco - Migi Mart - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 50.00	Crooked Line Studio - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 50.00	Sq *Big Dipper Billings - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 5.81	Wal-Mart #1956 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 400.00	Albertsons #4025 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 799.00	Amazon.Com*M67I67Ho1 Amzn - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 209.80	Amzn Mktp Us*M61O45H30 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 29.74	Amazon.Com*M612U7101 Amzn - PCard
07/08/2019	84	U.S. Bank PCards	CDBG	$ 29.51	Albertsons #0038 - PCard
07/08/2019	84	U.S. Bank PCards	CDBG	$ 113.28	Best Western Clock Tower - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 183.06	Northwest Industrial Supp - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 441.11	Grainger - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 411.64	Sherwin Williams 703203 - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 237.50	Nfpa Natl Fire Protect - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 14.95	Heights Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 11.99	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 55.72	Ferguson Ent 2006 - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 133.87	Grainger - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ (525.46)	Wesco Distribution6668 - PCard
07/08/2019	84	U.S. Bank PCards	Transit	$ 150.00	Citgo Lubricants - PCard
07/08/2019	84	U.S. Bank PCards	Transit	$ 197.86	Kimball Midwest - PCard
07/08/2019	84	U.S. Bank PCards	Information Resources	$ 480.00	Idu*Insight Public Sec - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 45.00	At&T Smd6 15578 - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 10.98	Lowes #00319* - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 9.98	Lowes #00319* - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 14.19	Northwest Industrial Supp - PCard

Check Date	Check	Name	Fund Name	Amount	Item Desc
07/08/2019	84	U.S. Bank PCards	Water	$ 89.99	Amazon.Com*M615260W0 Amzn - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 64.16	Fei, Inc - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 39.98	Harbor Freight Tools 207 - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 218.80	Macon Supply Billings 308 - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 126.00	Topz Llc - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 43.90	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 85.00	Idu*Insight Public Sec - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 122.40	Batteries+Bulbs #0253 - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 41.99	Dtv*Directv Service - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 100.00	Creative Monograms Smb - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ (12.00)	Tvetene Turf - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 184.79	Tacticalgear.Com - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 21.97	Albertsons #4025 - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 165.00	Ln Curtis - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 68.57	Grainger - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 16.74	Lowes #00319* - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 495.85	Big Sky Linen And Unif - PCard
07/08/2019	84	U.S. Bank PCards	P.W. Admin	$ 11.75	Fishers Technology - PCard
07/08/2019	84	U.S. Bank PCards	Engineering	$ 15.59	Fishers Technology - PCard
07/08/2019	84	U.S. Bank PCards	Police Programs	$ 41.98	Amzn Mktp Us*M65607Sr2 Am - PCard
07/08/2019	84	U.S. Bank PCards	Parks Maintenance	$ 75.15	Yellowstone Valley Elect - PCard
07/08/2019	84	U.S. Bank PCards	Parks Maintenance	$ 166.28	In *Canyon Creek Nursery - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 17.44	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 703.46	Staybridge Sts Grt Falls - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 35.13	Lowes #00319* - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 44.27	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 580.00	Outdoor Expressions - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 64.99	Tractor-Supply-Co #0303 - PCard
07/08/2019	84	U.S. Bank PCards	City County Planning	$ 43.36	Amazon.Com*M612I2151 - PCard
07/08/2019	84	U.S. Bank PCards	City County Planning	$ 43.36	Amazon.Com*M612I2151 - PCard
07/08/2019	84	U.S. Bank PCards	Police Programs	$ 307.74	Hilton Garden Inn - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 613.02	Galls - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 715.43	Dana Safety Supply Inc - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 2,025.00	Precisionrifleworkshop Ll - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 131.96	Amzn Mktp Us*M64Ai5Qf0 Am - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 50.00	Tlo Transunion - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 2,138.88	Sorenson Forensics - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 75.93	The Ups Store 2594 - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ (293.14)	Staybridge Sts Grt Falls - PCard
07/08/2019	84	U.S. Bank PCards	Transit	$ 39.80	Mls.Com - PCard
07/08/2019	84	U.S. Bank PCards	Transit	$ 114.90	Amazon.Com*M638V3071 - PCard
07/08/2019	84	U.S. Bank PCards	Transit	$ 17.90	Northwest Pipe Fittings, - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 67.00	Superior Water Solutions - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 253.12	Ace Electric - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 65.00	Independent Lock And Par - PCard

Check Date	Check	Name	Fund Name	Amount	Item Desc
07/08/2019	84	U.S. Bank PCards	Police Programs	$ 2,200.00	Pen-Link Ltd - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 32.59	Mt Mvd Credit Card Portal - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 303.18	Ultra Graphics, Llc - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 179.85	East Rosebud Fly & Tackle - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 85.90	Facebk *Bbktql6Kf2 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 15.98	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 144.31	Rdoce Bil 020112 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 20.25	Cy-Corp Trailer - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 35.18	Midland Implement Co - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 113.32	Midland Implement Co - PCard
07/08/2019	84	U.S. Bank PCards	Police Programs	$ 307.74	Hilton Garden Inn - PCard
07/08/2019	84	U.S. Bank PCards	Police Programs	$ 307.74	Hilton Garden Inn - PCard
07/08/2019	84	U.S. Bank PCards	Police Programs	$ 307.74	Hilton Garden Inn - PCard
07/08/2019	84	U.S. Bank PCards	Police Programs	$ (84.38)	Travelocity*7433424866 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 609.00	Billingsgazettethriftynck - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 150.30	Amzn Mktp Us*M66384Tb2 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 305.70	Kb Commercial Products - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 65.00	4Te*Kenco Security And Te - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 350.00	Montana Waterworks - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 42.26	Northwest Industrial Supp - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 35.69	The Home Depot #3101 - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 329.99	Shipton'S Big R-West - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 129.18	Hanson Chemical - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 37.85	Albertsons #0038 - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 691.48	Digitalbuyer.Com - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 318.38	Hilton Garden Inn Ft C - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 20.83	Midland Implement Co - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 34.05	Midland Implement Co - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 134.19	Northwest Pipe Fittings, - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 70.00	Wilbur Ellis Billings - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 40.44	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 24.81	Lamination Depot Inc - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 18.39	Office Depot #1080 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 6.60	Amzn Mktp Us*M687714V1 Am - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 21.36	Lowes #00319* - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 9.99	Scheels Billings - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 12.95	Canva* 02350-0102555 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 33.07	Amzn Mktp Us*M65V82Rl1 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 36.80	Amazon.Com*M64M82Er2 Amzn - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 195.54	Cavendishsq - PCard
07/08/2019	84	U.S. Bank PCards	CDBG	$ 500.00	Msu Billings-Main Cmp C - PCard
07/08/2019	84	U.S. Bank PCards	CDBG	$ 139.79	National Service Gear - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 552.22	Econo Print - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 73.00	Fort Harrison Inn - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 313.95	360 Office Solutions Inc - PCard

Check Date	Check	Name	Fund Name	Amount	Item Desc
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 29.33	Conoco - H & R Conoco #4 - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 703.46	Staybridge Sts Grt Falls - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 186.97	Hanson Chemical - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 187.42	Hanson Chemical - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 11.50	Sq *Stuart'S House - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 131.28	Amzn Mktp Us*Mn1Bf4Ib0 Am - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 608.00	Arc*Services/Training - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 23.98	Target 00013334 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 6.00	West End Lock And Secur - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 51.00	Pepsi-Cola Bottling Compa - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 6.99	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 39.99	Shipton'S Big R-East - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 20.11	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	CDBG	$ 28.75	Fieldprint Inc - PCard
07/08/2019	84	U.S. Bank PCards	CDBG	$ 28.75	Fieldprint Inc - PCard
07/08/2019	84	U.S. Bank PCards	CDBG	$ 28.75	Fieldprint Inc - PCard
07/08/2019	84	U.S. Bank PCards	CDBG	$ 28.75	Fieldprint Inc - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 107.33	Office Depot #450 - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 991.47	Yellowstone Valley Elect - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 52.25	Enduro Seat Covers - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 74.25	Stockysstoc - PCard
07/08/2019	84	U.S. Bank PCards	Building Inspection	$ 45.48	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Building Inspection	$ 39.77	Www Costco Com - PCard
07/08/2019	84	U.S. Bank PCards	Building Inspection	$ 75.95	Www Costco Com - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 86.22	The Home Depot 3101 - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 14.22	Tacoma Screw Products B - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 33.57	Lowes #00319* - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 84.56	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 205.00	Nutrien Ag Solution 6543 - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 36.37	Costco Whse #0069 - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 125.00	Jims Auto Repair - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 533.72	Rimage Corp - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 111.95	Thrifty Car Rental - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 91.48	Grainger - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 260.25	Best Friends Animal Hosp - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 14.99	Adobe *Acropro Subs - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 307.74	Staybridge Sts Grt Falls - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 308.76	Hanson Chemical - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 139.84	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 34.95	Laborlawcenter, Inc - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 767.14	Hose & Rubber Supply Blg - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 119.15	Sherwin Williams 703203 - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 321.00	Lesman Iron Works - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 43.00	Mountain Supply - PCard
07/08/2019	84	U.S. Bank PCards	Municipal Court Grants	$ 19.90	Costco Whse #0069 - PCard

Check Date	Check	Name	Fund Name	Amount	Item Desc
07/08/2019	84	U.S. Bank PCards	Police Programs	$ 28.47	Office Depot #2135 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 88.00	Sq *Yellowstone Cou - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 307.74	Staybridge Sts Grt Falls - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 95.06	Hanson Chemical - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 24.72	Eberhard Manufacturing C - PCard
07/08/2019	84	U.S. Bank PCards	Building Inspection	$ 49.16	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 41.50	Sherwin Williams 703203 - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 309.96	Fedex 787509483466 - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 521.96	3D Specialties Inc - PCard
07/08/2019	84	U.S. Bank PCards	City County Planning	$ 16.51	Amazon.Com*Mn70T1Hx2 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 23.94	The Home Depot #3101 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 47.99	Wal-Mart #1956 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 563.53	Nationalaud - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 299.04	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 77.94	Amazon.Com*Mn0Xq6My2 Amzn - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 41.98	Amzn Mktp Us*M62S953V1 - PCard
07/08/2019	84	U.S. Bank PCards	CDBG	$ 29.39	Albertsons #4025 - PCard
07/08/2019	84	U.S. Bank PCards	CDBG	$ 76.95	Chalet Market - PCard
07/08/2019	84	U.S. Bank PCards	City County Planning	$ (12.99)	Amazon Prime - PCard
07/08/2019	84	U.S. Bank PCards	City County Planning	$ 119.00	Amazon Prime - PCard
07/08/2019	84	U.S. Bank PCards	City County Planning	$ 25.05	Big Sky Linen And Unif - PCard
07/08/2019	84	U.S. Bank PCards	City County Planning	$ (140.00)	Paypal *Xcesslimite - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 31.91	Exxonmobil 45376688 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 479.94	Amzn Mktp Us*M61Hn2Gb0 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 25.00	Sq *Big Dipper Billings - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 12.12	Wal-Mart #1956 - PCard
07/08/2019	84	U.S. Bank PCards	CDBG	$ 22.69	Amzn Mktp Us*Mn2756Dn0 Am - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 34.94	Laborlawcenter, Inc - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 27.75	4Te*Kenco Security And Te - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 5.83	Office Depot #1080 - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 11.50	Superior Water Solutions - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 77.96	Grainger - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 8.99	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 30.41	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 299.00	2Cocom*Fl Studio / Ima - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 50.00	Amzn Digital*M61Qr0Xd2 - PCard
07/08/2019	84	U.S. Bank PCards	CDBG	$ 28.75	Fieldprint Inc - PCard
07/08/2019	84	U.S. Bank PCards	CDBG	$ 28.75	Fieldprint Inc - PCard
07/08/2019	84	U.S. Bank PCards	CDBG	$ 28.75	Fieldprint Inc - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 115.82	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 18.04	Yellowstone County Treas - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 195.00	Norco Inc - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 17.99	Cab Store Billings, Mt - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 50.00	4291 Amc Billings 10 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 580.70	Nationalaud - PCard

Check Date	Check	Name	Fund Name	Amount	Item Desc
07/08/2019	84	U.S. Bank PCards	Library	$ 1,026.36	Vernon Library Supplies - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 7.99	Amazon.Com*M619C63R2 Amzn - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 19.95	Amazon.Com*Mn7Kr9Wk1 Amzn - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 12.26	Amzn Mktp Us*Mn9M425F2 - PCard
07/08/2019	84	U.S. Bank PCards	CDBG	$ 47.00	Albertsons #0038 - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 182.50	Macon Supply Billings 308 - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 23.67	Office Depot #450 - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 1.67	Carquest 3103 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 150.00	Billings Ink And Toner, I - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 8.96	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 46.50	Main Street Printers - PCard
07/08/2019	84	U.S. Bank PCards	General	$ (219.99)	Amzn Mktp Us - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 35.99	Albertsons #0038 - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 93.94	Amzn Mktp Us*M66Ik0I41 Am - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 108.66	J J Keller & Associates - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 52.91	Office Depot #2135 - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 8.19	Grainger - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 958.00	Jims Electric - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 958.00	Jims Electric - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 34.94	Laborlawcenter, Inc - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 99.00	Graphic Imprints Awards - PCard
07/08/2019	84	U.S. Bank PCards	CDBG	$ 500.00	Msu Billings-Main Cmp C - PCard
07/08/2019	84	U.S. Bank PCards	CDBG	$ 110.00	Ywhc - PCard
07/08/2019	84	U.S. Bank PCards	CDBG	$ 16.47	Amzn Mktp Us*M66X55Hx1 - PCard
07/08/2019	84	U.S. Bank PCards	CDBG	$ 28.75	Fieldprint Inc - PCard
07/08/2019	84	U.S. Bank PCards	CDBG	$ 36.95	Credit Technologies, Inc - PCard
07/08/2019	84	U.S. Bank PCards	CDBG	$ 36.95	Credit Technologies, Inc - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 24.30	Zoro Tools Inc - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ (149.85)	Realty *Trac Subscrption - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 88.75	Jimmy Johns - 1646 - E - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 312.01	Fishers Technology - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 99.24	Ah Turf Specialties Inc - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 14.34	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 41.98	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 37.28	Office Depot #1080 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ (144.31)	Rdoce Bil 020112 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 425.00	The Good Earth Works Co - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 19.31	Amazon.Com*M60W01Ef0 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 108.71	Econo Print - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 8.50	Jimmy Johns - 1646 - E - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 18.39	Office Depot #1080 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 5.50	Office Depot #2135 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 127.88	Hanson Chemical - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 26.98	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 96.00	Garden Avenue Greenhous - PCard

Check Date	Check	Name	Fund Name	Amount	Item Desc
07/08/2019	84	U.S. Bank PCards	Water	$ 547.00	Auto Trim Design - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 660.00	Mt Gov Online Trnsctns - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 251.17	Grainger - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 14.20	Pacific Steel #02 - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ (80.59)	Safariland, Llc - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 79.93	Pizza Hut #1714 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 2,218.63	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 203.02	The Hotel Arvon - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 35.83	The Home Depot #3101 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 844.80	Tire Rama 105 It - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 19.00	Yellowstone Valley Elect - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 99.99	Sherrilltre - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 19.95	Amazon.Com*M67Hv0Tn0 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 6.00	Dollar Tree - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 11.76	Target 00013334 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 1,200.00	Spectrum Reach - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 23.98	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	EOC 911	$ 63.96	Amazon.Com*M632Z0B81 Amzn - PCard
07/08/2019	84	U.S. Bank PCards	EOC 911	$ 15.00	Msu-Bz-Univpolice-Cm - PCard
07/08/2019	84	U.S. Bank PCards	City County Planning	$ 15.94	Amzn Mktp Us*M613N3Ji2 - PCard
07/08/2019	84	U.S. Bank PCards	City County Planning	$ 19.99	Amzn Mktp Us*M68Bi2Tq0 Am - PCard
07/08/2019	84	U.S. Bank PCards	City County Planning	$ 92.23	In *Timemark Incorporated - PCard
07/08/2019	84	U.S. Bank PCards	City County Planning	$ 65.13	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 100.00	Yellowstone Art Museum - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 25.00	The Rubber Stamp Shop, - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 36.48	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 60.06	Midland Implement Co - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 40.00	Sq *Swift Microgreens And - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 137.46	Wm Supercenter #4412 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 96.44	Midland Implement Co - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 19.54	Midland Implement Co - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 40.46	Midland Implement Co - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 20.00	Se Background Services - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 26.87	Fishers Technology - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 29.00	Amzn Mktp Us*M66O97Cp0 Am - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 342.17	Kb Commercial Products - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 50.98	Wild Birds Unlimited - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 74.45	Demco Inc - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 575.18	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 184.40	Northwest Scientific Inc - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 110.00	Jimmy Johns - 1646 - E - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 111.28	Costco Whse #0069 - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 125.00	Sq *Auto Recovery I - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 14.99	Adobe *Pdf Pack Subs - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 25.65	Bin 119 - PCard

Check Date	Check	Name	Fund Name	Amount	Item Desc
07/08/2019	84	U.S. Bank PCards	General	$ 11.00	Grains Of Montana - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 52.00	Ihop #1773 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 165.00	Pita Pit - 14-025-Mt - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 168.73	Comfort Suites Bozeman - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 83.98	Amazon.Com*M66Zn9Pt0 Amzn - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 5.99	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 12.70	Leisure In Montana - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 87.50	Tacoma Screw Products B - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 85.00	All Lock Inc - PCard
07/08/2019	84	U.S. Bank PCards	General	$ (5.49)	Billings Hardware & Se - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 37.98	Heights Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 9.47	Billings Pump And Irrigat - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 8.68	Midland Implement Co - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 108.00	Rdoce Bil 020112 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 33.02	Adobe *Creative Cloud - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 95.00	Facebk *Wt995Mwqf2 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 1.98	Target 00013334 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 38.00	Arc*Services/Training - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 2.00	Dollar Tree - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 7.77	The Home Depot #3101 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 10.99	Amzn Mktp Us*M67J81Tc2 Am - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 64.81	Buildersfirstsource64021 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 279.41	Hanson Chemical - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 8.00	Dollar Tree - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 206.85	Wal-Mart #2923 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 15.39	Office Depot #2135 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 16.73	Wal-Mart #2923 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 7.00	Dollar Tree - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 28.50	Wm Supercenter #2923 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 15.95	Wheniwork.Com - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 45.00	Wheniwork.Com - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 88.74	Fishers Technology - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 183.00	Pepsi-Cola Bottling Compa - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 50.84	Batteries+Bulbs #0253 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 106.53	Wal-Mart #2923 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 198.00	Wilbur Ellis Billings - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 5.00	Facebk *Rqgr9Msvj2 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 1,319.20	Pepsi-Cola Bottling Compa - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 20.97	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 30.56	Jj Amusements - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 92.14	Buddy Punch - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 30.00	Bighorn Boots - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 550.00	Hansers Wrecker Company - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 550.00	Hansers Wrecker & Salvage - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 6.95	Sq *Rock Creek Coff - PCard

Check Date	Check	Name	Fund Name	Amount	Item Desc
07/08/2019	84	U.S. Bank PCards	General	$ 7.65	Amazon.Com*Mn9I82I81 Amzn - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 2,090.00	Greetingcardunivers - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 11.96	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 67.75	Jimmy Johns - 1646 - E - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 12.74	Tractor Supply #1381 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 200.12	Rdoce Bil 020112 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 8.96	The Home Depot #3101 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 5.27	Tacoma Screw Products B - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 37.00	Fei, Inc - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 257.92	Northwest Pipe Fittings, - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 6.74	The Home Depot #3101 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 59.99	Rdoce Bil 020112 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 66.19	Sq *Budget Inn Expr - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 19.94	Northwest Scientific Inc - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 218.00	Macon Supply Billings 308 - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 140.00	Mt Gov Online Trnsctns - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 9.99	Lee Newspapers E Pay - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 126.00	Topz Llc - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 3.60	Carquest 3103 - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 2.99	Harbor Freight Tools 207 - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 1,050.00	Crashdatagr - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 718.98	Recreation Supply Company - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 42.82	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 108.75	Big Sky Linen And Unif - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 4.90	Shipton'S Big R-East - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 45.00	Pepsicola Bottling Compan - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 250.00	Mountainside Towing - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 636.72	Thomson West*Tcd - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 145.60	The Ups Store #4741 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 318.83	Bruco Inc - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 77.13	Hanson Chemical - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 25.00	Snappyduds - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 6.99	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 5.20	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 23.38	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 767.52	American Floor Mats - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 83.70	Grainger - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 34.68	Hose & Rubber Supply Blg - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 35.06	Yellowstone Valley Elect - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 8.59	Fishers Technology - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 35.81	Grainger - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 35.01	Shipton'S Big R-East - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 110.00	Jimmy Johns - 1646 - E - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 84.99	Scheels Billings - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 193.67	Meadow Green Sales - PCard

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07/08/2019	84	U.S. Bank PCards	General	$ 34.20	Napa Store 3547001 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 86.85	Hanson Chemical - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 16.99	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 500.00	Hansers Wrecker Company - PCard
07/08/2019	84	U.S. Bank PCards	City County Planning	$ 129.00	Venngage.Com - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 33.22	Amzn Mktp Us*M67Fs32U1 Am - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ (109.00)	Wal-Mart #1956 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 44.89	Wm Supercenter #1956 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 27.00	Hanson Chemical - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 445.55	Kb Commercial Products - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 10.90	Lowes #00319* - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 11.24	The Home Depot #3101 - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 4.50	Conoco - The Trading Post - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 1,099.79	Thomson West*Tcd - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 599.04	Peopleready - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 255.07	Bruco Inc - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 255.07	Bruco Inc - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 63.00	Jares Fence Co - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 9.10	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 28.52	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 6.05	Tacoma Screw Products B - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 17.50	Tacoma Screw Products B - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 57.34	The Home Depot #3101 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 4.59	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 106.15	A & I Distributors - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 35.83	Carquest 3104 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 46.20	Midland Implement Co - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 85.73	Midland Implement Co - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 47.49	Napa Store 3547001 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 79.99	Shipton'S Big R-East - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 45.90	Tacoma Screw Products B - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 33.00	West End Lock And Secur - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 99.86	Interstate Battery Of The - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 73.21	Midland Implement Co - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 11.00	Staleys Tire And Auto - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 57.10	Midland Implement Co - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 23.20	Lowes #00319* - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 15.50	Midland Implement Co - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 39.17	Midland Implement Co - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 112.50	Midland Implement Co - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 78.00	General Shale-Billings - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 31.99	Shipton'S Big R-West - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 17.25	The Home Depot #3101 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 31.10	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 128.27	Midland Implement Co - PCard

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07/08/2019	84	U.S. Bank PCards	General	$ 11.40	Northwest Pipe Fittings, - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 30.99	Office Depot #450 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 16.48	Wm Supercenter #2923 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 92.14	Buddy Punch - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 907.31	Valley Distributing Of - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 32.98	Costco Whse #0069 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 52.00	Hanson Chemical - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 51.12	Amzn Mktp Us*Mn79M9lf2 Am - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 9.99	Amzn Mktp Us*Mn9Mq1W42 Am - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 68.24	Wal-Mart #1956 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 90.00	Arc*Services/Training - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 297.13	Valley Distributing Of - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 247.81	Hanson Chemical - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 3.42	U-Haul Moving & Storage A - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 28.80	Pepsi-Cola Bottling Compa - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 26.94	Amazon.Com*M66T150Z1 Amzn - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 66.75	Target 00013334 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 44.51	Amzn Mktp Us*M664P0G51 Am - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 15.38	Amzn Mktp Us*M65202Ub1 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 182.76	Center Point Large Print - PCard
07/08/2019	84	U.S. Bank PCards	CDBG	$ 19.98	Amazon.Com*Mn3Px06M1 Amzn - PCard
07/08/2019	84	U.S. Bank PCards	CDBG	$ 123.98	Best Western Clock Tower - PCard
07/08/2019	84	U.S. Bank PCards	CDBG	$ 10.00	Ywhc - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 567.60	Midland Implement Co - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 13.49	Office Depot #450 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 16.49	Office Depot #2135 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 31.21	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 89.84	Amzn Mktp Us*M63R740I1 Am - PCard
07/08/2019	84	U.S. Bank PCards	General	$ (9.47)	Wal-Mart #1956 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 300.00	Arc*Services/Training - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 69.00	Steve Clayton Inc - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 56.99	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 122.48	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 648.10	Cdw Govt #Snh9377 - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 206.73	Office Depot #450 - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 1,065.78	Ge Analytical Instrument - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 783.17	Uline *Ship Supplies - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 44.58	Hose & Rubber Supply Blg - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 216.00	Macon Supply Billings 308 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 17.98	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 74.51	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 95.70	Heartland Paper Company - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 4.70	Wal-Mart #2923 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 78.40	Pepsi-Cola Bottling Compa - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 6.98	Albertsons #0630 - PCard

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07/08/2019	84	U.S. Bank PCards	General	$ 35.82	Midland Implement Co - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 375.00	Excel Services - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 73.86	Mcmaster-Carr - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 2,137.51	Yellowstone Valley Elect - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 12.58	Harbor Freight Tools 207 - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 105.00	Industrial Coating Soluti - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 36.50	West End Lock And Secur - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 636.72	Thomson West*Tcd - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 295.00	Billings Ink And Toner, I - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 980.00	Idu*Insight Public Sec - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 266.43	Sage Lodge Emigrant - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 55.32	The Ups Store #4741 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 57.98	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 450.00	Montana Society Of Certif - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 18.95	Amzn Mktp Us*M604W84E1 Am - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 2,134.95	88050 Amc Group Sales - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 43.44	Amzn Mktp Us*M63Rd0Q51 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 8.90	Wal-Mart #2923 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 10.00	Snappyduds - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 27.96	Billings Hardware & Se - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 4.28	Frontier Fence - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 75.00	Jares Fence Co - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 26.37	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 33.98	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 840.00	Pp*Zeecreativeinc - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 7.68	Shipton'S Big R-West - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 17.00	West End Lock And Secur - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 29.14	Albertsons #0038 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 35.79	Wal-Mart #2923 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 21.00	Dollar Tree - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 134.75	Harbor Freight Tools 207 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 111.00	Pricechopper Wristband - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 47.94	Wal-Mart #2923 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 87.92	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 116.36	Midland Implement Co - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 9.18	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 32.32	Midland Implement Co - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 56.75	Midland Implement Co - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 103.33	Midland Implement Co - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 256.81	Midland Implement Co - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 896.50	Billings Public Auto Auct - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 35.98	Shipton'S Big R-West - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 34.47	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 10.52	Heartland Paper Company - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 11.68	Target 00001719 - PCard

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07/08/2019	84	U.S. Bank PCards	General	$ 6.16	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 78.43	Oreilly Auto #1551 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 16.98	Vistapr*Vistaprint.Com - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 12.00	Zeecreativeinc - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 36.00	Dollar Tree - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 103.56	Wal-Mart #1956 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 54.02	Wm Supercenter #2923 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 2.50	Albertsons #4025 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 60.98	Amzn Mktp Us*M67Xc4160 Am - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 69.90	Amzn Mktp Us*M69O46U71 Am - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 52.71	Wal-Mart #2923 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 42.50	In *Billings Extinguishin - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 41.37	Amazon.Com*M62H21Gu2 Amzn - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 27.84	Wal-Mart #2923 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 39.97	Wal-Mart #2923 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 135.00	Sp * Zoomontana - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 105.00	Sq *Executive Enter - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 203.00	Sq *Geyser Park - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 17.00	Dollar Tree - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 4.96	Wal-Mart #2923 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 98.24	Wal-Mart #2923 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 169.00	Sq *The Grand Escap - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 32.00	Ywhc - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 92.20	Buddy Punch - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 93.12	Wal-Mart #2923 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 19.99	Adobe *Creative Cloud - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 180.00	Sunset Bowl - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 22.00	Ywhc - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 16.37	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 660.00	Arc*Services/Training - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 12.00	Sq *Jeffrey Gray - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 62.00	Bighorn Boots - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 15.73	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 69.99	Charter Comm - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 60.00	Pepsi-Cola Bottling Compa - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 3.79	Target 00001719 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 15.98	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 15.95	Wheniwork.Com - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 39.12	Lowes #00319* - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 130.17	Yellowstone County Implem - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 59.99	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 10.98	Border States Electric - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 50.62	Lowes #00319* - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 108.74	Grainger - PCard
07/08/2019	84	U.S. Bank PCards	Facilities Mngmt	$ 13.58	Kings Ace Hdwe - PCard

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07/08/2019	84	U.S. Bank PCards	P.W. Admin	$ 1,935.04	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	P.W. Admin	$ 55.28	Amzn Mktp Us*M65Af0Fm1 Am - PCard
07/08/2019	84	U.S. Bank PCards	P.W. Admin	$ 39.14	Office Depot #1080 - PCard
07/08/2019	84	U.S. Bank PCards	Engineering	$ 148.70	The Home Depot #3101 - PCard
07/08/2019	84	U.S. Bank PCards	Engineering	$ 25.00	Mt Prof License Renew - PCard
07/08/2019	84	U.S. Bank PCards	Police Programs	$ 375.62	Msu Billings-Main Campu - PCard
07/08/2019	84	U.S. Bank PCards	Police Programs	$ 345.69	Galls - PCard
07/08/2019	84	U.S. Bank PCards	Police Programs	$ 166.75	The Peavey Corporation - PCard
07/08/2019	84	U.S. Bank PCards	Municipal Court Grants	$ 704.50	United 0162455795234 - PCard
07/08/2019	84	U.S. Bank PCards	Park District 1	$ 8.68	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 549.06	Amzn Mktp Us*M60Vt8Z12 Am - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 881.03	Dana Safety Supply - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 119.32	Rimage Corp - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 72.62	Exxonmobil 45945292 - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 27.96	Wm Supercenter #1956 - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 46.00	Exxonmobil 45941721 - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 550.35	Residence Inn - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 422.97	Dmi* Dell Sales & Servic - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 112.30	Costco Whse #0069 - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 201.78	Kb Commercial Products - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 32.20	Buildersfirstsource64021 - PCard
07/08/2019	84	U.S. Bank PCards	Building Inspection	$ 100.00	Int'L Code Council Inc - PCard
07/08/2019	84	U.S. Bank PCards	Building Inspection	$ 59.99	Www Costco Com - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 65.43	Billings Construction Sup - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 700.00	Lesman Iron Works - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 82.68	Schnitzer Steel Billings - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 22.99	Shipton'S Big R-East - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 742.00	Grn Magc Arbr Tec - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 530.00	Billingsgazettethriftynck - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 54.40	Fishers Technology - PCard
07/08/2019	84	U.S. Bank PCards	City County Planning	$ 38.00	4Te*Geotix Event Tickets - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 378.00	Thomas Printing Inc - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 1.92	Fishers Technology - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 33.03	Exxonmobil 45376688 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 404.54	Marriott Bethesda Dtow - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 125.00	Amazon.Com*M67Pc7Zr0 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 75.00	4Te*Kenco Security And Te - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 12.48	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 98.69	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 11.14	Amazon.Com*M67Wl8C21 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 527.82	Brodart Supplies - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 1,798.00	Amazon.Com*M646J3D92 Amzn - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 1,799.00	Amazon.Com*M65C464Z0 Amzn - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 209.80	Amzn Mktp Us*M62Hb8Q22 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 594.00	Apl*Apple Online Store - PCard

Check Date	Check	Name	Fund Name	Amount	Item Desc
07/08/2019	84	U.S. Bank PCards	Library	$ 36.66	Amazon.Com*Mn4Ea96U2 Amzn - PCard
07/08/2019	84	U.S. Bank PCards	CDBG	$ 21.28	Albertsons #0038 - PCard
07/08/2019	84	U.S. Bank PCards	CDBG	$ 200.00	Amazon.Com*M66B44Zj0 Amzn - PCard
07/08/2019	84	U.S. Bank PCards	CDBG	$ 275.00	Chipotle Online - PCard
07/08/2019	84	U.S. Bank PCards	CDBG	$ (35.75)	Amzn Mktp Us Amzn.Com/Bil - PCard
07/08/2019	84	U.S. Bank PCards	CDBG	$ 326.38	Fishers Technology - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 11.53	4Te*Kenco Security And Te - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 99.98	Office Depot #1080 - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 90.03	Northwest Scientific Inc - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 23.34	Yellowstone County Treas - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 38.76	Ferguson Ent #3027 - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 120.93	Grainger - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 441.11	Grainger - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 10.00	Tvetene Turf - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 15.13	Carquest 3103 - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 8.57	Hose & Rubber Supply Blg - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 150.00	Ah Turf Specialties Inc - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 110.00	Jimmy Johns - 1646 - E - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 691.39	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 133.00	Graphic Imprints Awards - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 121.45	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 258.32	Econo Print - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 2.79	Office Depot #1080 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 255.07	Bruco Inc - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 55.39	Big Sky Linen And Unif - PCard
07/08/2019	84	U.S. Bank PCards	General	$ (6.00)	Billings Hardware & Se - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 5.49	Billings Hardware & Se - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 5.49	Billings Hardware & Se - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 30.00	Dxp Enterprises - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 91.16	Ferguson Ent #3027 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 78.28	Norco Inc - PCard
07/08/2019	84	U.S. Bank PCards	General	$ (200.12)	Rdoce Bil 020112 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 20.18	Yellowstone County Implem - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 149.96	Lowes #00319* - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 29.82	Midland Implement Co - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 66.72	Northwest Pipe Fittings, - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 35.00	Total Rental Inc - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 58.98	Shipton'S Big R-East - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 74.94	The Home Depot #3101 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 30.60	Wm Supercenter #1956 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 14.98	Office Depot #1080 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 225.57	My Binding Com - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 228.00	Arc*Services/Training - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 362.40	In *Elifeguard, Inc. - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 76.12	Wal-Mart #2923 - PCard

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07/08/2019	84	U.S. Bank PCards	General	$ 4.84	Wm Supercenter #1956 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 50.97	Amzn Mktp Us*M65Dp2B90 Am - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 266.00	Arc*Services/Training - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 1,110.00	Absaroka River Adventures - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 119.34	Hanson Chemical - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 9.87	Wal-Mart #2923 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 108.90	Wheniwork.Com - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 6.99	Albertsons #4025 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 385.05	Northwest Pipe Fittings, - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 34.98	Lowes #00319* - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 34.98	Lowes #00319* - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 67.50	Snappyduds - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 71.43	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 30.18	Meadow Green Sales - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 14.88	Midland Implement Co - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 250.00	Hansers Wrecker & Salvage - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 125.00	Kc Towing & Repair Svc - PCard
07/08/2019	84	U.S. Bank PCards	Engineering	$ 78.18	Hanson Chemical - PCard
07/08/2019	84	U.S. Bank PCards	Parks Maintenance	$ 51.95	Midland Implement Co - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 10.63	Northwest Industrial Supp - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 3.95	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 241.00	Creative Monograms Smb - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 2.19	Holiday Stations 0108 - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 85.50	Dana Safety Supply - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 45.00	Fly In Lube & Wash - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 144.20	In *Cynthia Boyer - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 123.28	Lowes #00319* - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 860.82	Bretz Rv And Marine - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 173.11	Dmi* Dell Corp Bus - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 30.00	United 0161512137850 - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 30.00	United 0161512137851 - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 122.09	Dmi* Dell Corp Bus - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 44.18	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 75.00	Albertsons #4025 - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 232.00	Sherwin Williams 703203 - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 239.70	General Shale-Billings - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 130.82	Schnitzer Steel Billings - PCard
07/08/2019	84	U.S. Bank PCards	Street/Traffic Oper	$ 32.99	Tractor-Supply-Co #0303 - PCard
07/08/2019	84	U.S. Bank PCards	Fire Grants	$ 729.99	Best Buy 00005926 - PCard
07/08/2019	84	U.S. Bank PCards	City County Planning	$ 30.17	Costco Whse #0069 - PCard
07/08/2019	84	U.S. Bank PCards	Municipal Court Grants	$ 48.00	City Of Billings Finance - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 90.00	Commons 1882 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 588.00	United 0162454340406 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 27.67	Petsmart # 0393 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 15.00	The Splash Page - PCard

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07/08/2019	84	U.S. Bank PCards	Library	$ 3.98	Wm Supercenter #1956 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 9.23	The Home Depot #3101 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 192.98	Target 00013334 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 27.96	Wm Supercenter #2923 - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 551.54	Demco Inc - PCard
07/08/2019	84	U.S. Bank PCards	Library	$ 550.98	Amazon.Com*M63916Pf0 Amzn - PCard
07/08/2019	84	U.S. Bank PCards	CDBG	$ 158.25	Jimmy Johns - 1646 - E - PCard
07/08/2019	84	U.S. Bank PCards	CDBG	$ 109.74	Www Costco Com - PCard
07/08/2019	84	U.S. Bank PCards	CDBG	$ 135.49	Amzn Mktp Us*M680K9Ae2 Am - PCard
07/08/2019	84	U.S. Bank PCards	CDBG	$ 32.94	Wm Supercenter #2923 - PCard
07/08/2019	84	U.S. Bank PCards	CDBG	$ 12.95	Canva* 02340-8327094 - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 39.80	Mt Gov Online Trnsctns - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 7.33	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 28.75	Office Depot #1080 - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 590.62	Hach Company - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 9.42	Fastenal Company 01Mtbi1 - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 53.58	Grainger - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 23.07	4Te*Kenco Security And Te - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 79.52	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 108.66	J J Keller & Associates - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 7.63	Carquest 3103 - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 220.00	Creative Monograms Smb - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 43.92	Albertsons #0047 - PCard
07/08/2019	84	U.S. Bank PCards	Public Safety	$ 29.50	4Te*Kenco Security And Te - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 14.99	Best Buy 00005926 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 1,647.36	Peopleready - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 74.04	Hanson Chemical - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 77.13	Hanson Chemical - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 129.00	Bighorn Boots - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 35.60	Border States Electric - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 20.20	Midland Implement Co - PCard
07/08/2019	84	U.S. Bank PCards	General	$ (37.28)	Office Depot #1080 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 53.24	Midland Implement Co - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 300.00	Ah Turf Specialties Inc - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 60.77	Billings Hardware & Se - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 12.20	Midland Implement Co - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 14.27	Midland Implement Co - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 39.92	Midland Implement Co - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 15.70	Lowes #00319* - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 336.05	Border States Electric - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 36.56	Amzn Mktp Us*M67Me5921 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 92.14	Buddy Punch - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 265.72	Costco Whse #0069 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 26.96	Target 00001719 - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 140.00	Sq *Scrap In Billin - PCard

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07/08/2019	84	U.S. Bank PCards	General	$ 301.36	Valley Distributing Of - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 12.61	Van'S Evergreen Iga - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 117.60	Dxp Enterprises - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 26.98	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 28.96	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 33.97	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 0.70	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 34.98	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 19.50	Tire Rama 101 Bc - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 154.97	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	General	$ 84.85	Northwest Pipe Fittings, - PCard
07/08/2019	84	U.S. Bank PCards	Park District 1	$ 146.20	Sherwin Williams 703203 - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 11.85	Ah Turf Specialties Inc - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 440.00	Mt Gov Online Trnsctns - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 237.50	Nfpa Natl Fire Protect - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 2.00	Harbor Freight Tools 207 - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 2.99	Tractor-Supply-Co #0303 - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 9.22	4Te*Kenco Security And Te - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 349.00	Kone, Inc. - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 99.76	A & I Distributors - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ (80.00)	Archie Cochrane Ford - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 246.00	Ratco Trailer And Hitch - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 480.81	Hose & Rubber Supply Blg - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 62.69	Norco Inc - PCard
07/08/2019	84	U.S. Bank PCards	Park District 1	$ 5.19	Office Depot #2135 - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 0.94	Pacific Steel #02 - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 126.02	Pacific Steel #02 - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 382.41	Northwest Pipe Fittings, - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ (5.59)	Harbor Freight Tools 207 - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 1.12	Carquest 3103 - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 7.08	Northwest Industrial Supp - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 37.50	4Te*Kenco Security And Te - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 135.00	Air Controls-Billings - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 175.00	In *Automatic Doors Of Mo - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 19.93	Northwest Pipe Fittings, - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 600.00	Billings Overhead Door In - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 225.00	Shepherd Stainless Incorp - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 1,240.00	In *Mjr Industries Inc. - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 125.44	Archie Cochrane Ford - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 221.95	Billing Kubata Inc - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 218.50	Md Tools, Inc. - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 127.53	Partstree Com - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 19.98	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 78.40	Billings Construction Sup - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 319.59	Kb Commercial Products - PCard

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07/08/2019	84	U.S. Bank PCards	Parking	$ 75.00	4Te*Kenco Security And Te - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 177.50	F-M Forklift Sales & Svcs - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 482.00	F-M Forklift Sales & Svcs - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 29.72	Hose & Rubber Supply Blg - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 29.99	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 369.49	Norco Inc - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 40.00	Cotters Sewer Inc - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 41.91	The Home Depot #3101 - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 14.07	Napa Store 3547001 - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 336.00	Billings Overhead Door In - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 76.56	Grainger - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 250.00	State Chemic*State Che - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ (1,050.92)	Wesco Distribution6668 - PCard
07/08/2019	84	U.S. Bank PCards	Park District 1	$ 303.58	Northwest Pipe Fittings, - PCard
07/08/2019	84	U.S. Bank PCards	Park District 1	$ 156.52	Northwest Pipe Fittings, - PCard
07/08/2019	84	U.S. Bank PCards	Park District 1	$ 138.88	Northwest Pipe Fittings, - PCard
07/08/2019	84	U.S. Bank PCards	Park District 1	$ 23.98	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Park District 1	$ 24.99	Target 00013334 - PCard
07/08/2019	84	U.S. Bank PCards	Park District 1	$ 35.04	Selby'S - PCard
07/08/2019	84	U.S. Bank PCards	Park District 1	$ 185.00	Intl Soc Arboriculture - PCard
07/08/2019	84	U.S. Bank PCards	Park District 1	$ 19.99	Adobe *Creative Cloud - PCard
07/08/2019	84	U.S. Bank PCards	Park District 1	$ 119.30	The Home Depot #3101 - PCard
07/08/2019	84	U.S. Bank PCards	Park District 1	$ 32.98	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 108.66	J J Keller & Associates - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 18.03	Yellowstone County Treas - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 21.95	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 8.00	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 35.50	4Te*Kenco Security And Te - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 1,791.06	Sundown Security - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ (50.00)	Montana Broom & Brush Co - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 961.76	Montana Broom & Brush Co - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 149.56	Crescent Electric 054 - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 124.95	Amazon.Com*M66Vp6602 Amzn - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 1,740.87	M-B Companies, Inc. - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 59.97	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 642.73	Hach Company - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 77.22	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 19.00	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 125.00	Custom Laser - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ (6.20)	Carquest 3103 - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 5.72	Hose & Rubber Supply Blg - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 8.36	Edge Construction Supp - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 122.49	Office Depot #450 - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 120.00	Sq *Skyline Service - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 155.00	Sq *Skyline Service - PCard

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07/08/2019	84	U.S. Bank PCards	Parking	$ 220.00	Refurbradios.Com - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 108.66	J J Keller & Associates - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 40.00	Cotters Sewer Inc - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 2,385.00	Helena Chemical Co 44021 - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 2,388.50	Helena Chemical Co 44021 - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 228.00	Redd'S Prints And Signs I - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 104.27	Ecolab Pest Cs - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 232.00	Billings Overhead Door In - PCard
07/08/2019	84	U.S. Bank PCards	Transit	$ 38.00	Accent Print Shop - PCard
07/08/2019	84	U.S. Bank PCards	Transit	$ 198.00	Reddi Electric - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 3.84	4Te*Kenco Security And Te - PCard
07/08/2019	84	U.S. Bank PCards	Transit	$ 419.02	Cp Denver - PCard
07/08/2019	84	U.S. Bank PCards	Transit	$ 331.30	United 0167365877916 - PCard
07/08/2019	84	U.S. Bank PCards	Transit	$ 49.95	Realty *Trac Subscrption - PCard
07/08/2019	84	U.S. Bank PCards	Transit	$ 720.00	Cummins Inc - 40 - PCard
07/08/2019	84	U.S. Bank PCards	Transit	$ 93.80	Paypal *Anytimesign - PCard
07/08/2019	84	U.S. Bank PCards	Central Services	$ 72.20	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Information Resources	$ 169.39	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Information Resources	$ 33.98	Amzn Mktp Us*Mn1Gm4D71 Am - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 298.33	0725 Ced - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 167.45	Grainger - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 9.46	Pacific Steel #02 - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 19.00	Yellowstone Valley Elect - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 245.40	Yellowstone Valley Elect - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 52.56	Pacific Steel #02 - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 3.90	Fedex Offic16000016089 - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 34.94	Laborlawcenter, Inc - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 70.36	Northwest Scientific Inc - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 23.87	Grainger - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 70.00	Industrial Coating Soluti - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 18.85	Fedex 479823484 - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 319.59	Kb Commercial Products - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 93.93	Fastenal Company 01Mtbll - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 52.25	Enduro Seat Covers - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 2.40	Carquest 3103 - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 170.55	Yellowstone Valley Elect - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 362.29	Yellowstone Valley Elect - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 84.02	Pacific Steel #02 - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 620.00	Refurbradios.Com - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 7.99	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 75.00	In *Vinyl Technology - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 2,022.50	Northwest Scientific Inc - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 8.39	Harbor Freight Tools 207 - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 5.09	Carquest 3103 - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 11.63	Kings Ace Hdwe - PCard

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07/08/2019	84	U.S. Bank PCards	Wastewater	$ 15.26	Shipton'S Big R-East - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 64.25	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ (1.19)	City Of Billings Parking - PCard
07/08/2019	84	U.S. Bank PCards	Park District 1	$ 108.47	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 11.50	Tvetene Turf - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 32.97	Lowes #00319* - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 1,086.89	Yellowstone Valley Elect - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 1,099.72	Yellowstone Valley Elect - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 39.76	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 18.04	Yellowstone County Treas - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 2.63	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 28.18	Northwest Industrial Supp - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 59.90	Ah Turf Specialties Inc - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 49.19	Northwest Industrial Supp - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 21.72	Mt Mvd Credit Card Portal - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 48.45	Kb Commercial Products - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 15.78	Office Depot #450 - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 89.99	Shipton'S Big R-West - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 5.59	Shipton'S Big R-East - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 420.00	Refurbradios.Com - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 9.94	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 18.31	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 169.70	Zeecreativeinc - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 8.57	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 285.99	Kings Ace Hdwe - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 27.38	Tacoma Screw Products B - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 82.00	American Water Technol - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 140.00	Spic And Span - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 47.74	Crescent Electric 054 - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 271.72	Tractor & Equipment - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 285.40	Johnson Controls Ss - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 47.50	Entre Technology Service - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 93.71	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 58.27	Fastenal Company 01Mtbll - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 273.60	Johnstone Supply Billings - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 344.40	Kb Commercial Products - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 20.00	The Rubber Stamp Shop, - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 37.62	Fishers Technology - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 264.00	Yellowstone Electric Comp - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 408.36	Yellowstone Electric Comp - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 18.50	4Te*Kenco Security And Te - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 140.00	Mt Gov Online Trnsctns - PCard
07/08/2019	84	U.S. Bank PCards	Wastewater	$ 23.34	Shipton'S Big R-East - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 177.46	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Parking	$ 30.00	Sq *Skyline Service - PCard

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07/08/2019	84	U.S. Bank PCards	Parking	$ 48.45	Kb Commercial Products - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 11.99	Fedex 930377448793 - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 1,393.90	Big Sky Linen And Unif - PCard
07/08/2019	84	U.S. Bank PCards	Solid Waste	$ 925.55	Hose & Rubber Supply Blg - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 89.23	360 Office Solutions Inc - PCard
07/08/2019	84	U.S. Bank PCards	Airport	$ 481.10	Big Sky Linen And Unif - PCard
07/08/2019	84	U.S. Bank PCards	Park District 1	$ 1,940.00	Northland Automotive - PCard
07/08/2019	84	U.S. Bank PCards	Water	$ 12.55	Edge Construction Supp - PCard
07/08/2019	84	U.S. Bank PCards	Park District 1	$ 82.53	Sherwin Williams 703203 - PCard
07/08/2019	84	U.S. Bank PCards	Park District 1	$ 81.00	Volgistics Inc - PCard
07/08/2019	824534	360 Office Solutions Inc	P.W. Admin	$ 771.00	329917-0; Chairs for Jennifer's Depot Office
07/08/2019	824534	360 Office Solutions Inc	P.W. Admin	$ 2,817.00	332641-0; Jennifer's Depot Office Furniture
07/08/2019	824534	360 Office Solutions Inc	Public Safety	$ 77.96	TN630/TONER, HOPPEL F/HLL2300D BK
07/08/2019	824534	360 Office Solutions Inc	Public Safety	$ 233.80	FIRE: CTG12AP, TONER HP1010/1012 BLACK (KELLY)
07/08/2019	824534	360 Office Solutions Inc	Public Safety	$ (167.00)	336190: HP1010 TONER RETURNED ON 6/4/2019
07/08/2019	824534	360 Office Solutions Inc	Wastewater	$ 130.00	337491-0 BOBBIE'S CESK CHAIR
07/08/2019	824534	360 Office Solutions Inc	Water	$ 195.00	337491-0 BOBBIE'S CESK CHAIR
07/08/2019	824535	Ace Electric Inc	Wastewater	$ 4,990.00	47997; WIRE UP NEW CONVEYOR IN HEADWORKS
07/08/2019	824539	Advanced Engineering and Environmental Services In	Water	$ 771.22	WO 18-18 WTP Bio-Filtration Study; 63526
07/08/2019	824539	Advanced Engineering and Environmental Services In	Water	$ 8,559.50	WO 18-21 WTP Intake Redundancy; RetRel 1F
07/08/2019	824541	Advanced Traffic Products Inc	Street/Traffic Oper	$ 4,834.50	led reds for signals
07/08/2019	824549	Altitude Signal LLC	Arterial Streets	$ 370,150.00	WO 19-99 2019 Signal Upgrade; I001251/1
07/08/2019	824549	Altitude Signal LLC	Arterial Streets	$ 42,275.00	WO 19-99 2019 Signal Upgrade; I001242/3F
07/08/2019	824558	Applied Industrial Technologies	Fleet	$ 572.90	7016459365 PO NUM 308545
07/08/2019	824558	Applied Industrial Technologies	Water	$ 2,778.68	SOLID FLEXIBLE CONNECTOR - 6123548780 AT ALFA LAVAL (6123548780)
07/08/2019	824559	Apsco Inc	Wastewater	$ 4,232.23	21232; GRIT CLASSIFIERS HEADWORKS
07/08/2019	824561	Armscor Cartridge Incorporated	Public Safety	$ 6,480.00	Armscor 5935 Invoice, ammo
07/08/2019	824561	Armscor Cartridge Incorporated	Public Safety	$ 6,272.00	Armscor 10432, ammo
07/08/2019	824561	Armscor Cartridge Incorporated	Public Safety	$ 540.00	Armscor 10433, ammo
07/08/2019	824563	AT & T Corp	General	$ 212.08	Municipal Court
07/08/2019	824563	AT & T Corp	Telephone System	$ 30.10	TeleComm Manager
07/08/2019	824563	AT & T Corp	Water	$ 92.90	PW-Distribution Collection Tablets 60/40
07/08/2019	824563	AT & T Corp	Public Safety	$ 49.96	Police -David Raschow -Caneceled line in April, AT&T did not cancel. taking credit.
07/08/2019	824563	AT & T Corp	Wastewater	$ 61.94	PW-Distribution Collection Tablets 60/40
07/08/2019	824563	AT & T Corp	General	$ 569.26	Parks Dept.
07/08/2019	824563	AT & T Corp	Wastewater	$ 415.61	PWBELKNAP-DIST COLL 60/40
07/08/2019	824563	AT & T Corp	Water	$ 96.08	PWBLKNP STORES -75/25
07/08/2019	824563	AT & T Corp	Solid Waste	$ 44.93	PW- Solid Waste (Card)

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07/08/2019	824563	AT & T Corp	Transit	$ (132.15)	Trans-On Call MET -Lines were requested to be canceled back in April-AT&T did not cancel -took credit
07/08/2019	824563	AT & T Corp	Public Safety	$ (49.96)	Police -David Raschow -Caneceled line in April, AT&T did not cancel. taking credit.
07/08/2019	824563	AT & T Corp	Wastewater	$ 32.58	PWBLKNP STORES -75/25
07/08/2019	824563	AT & T Corp	Water	$ 33.91	PWBLKNP OFFICE -60/40
07/08/2019	824563	AT & T Corp	Engineering	$ 43.25	PW-Engineering
07/08/2019	824563	AT & T Corp	Water	$ 542.09	Comm. Meter City works
07/08/2019	824563	AT & T Corp	General	$ 325.44	Rec Dept. Seasonal Lines 0100-51210-403450
07/08/2019	824563	AT & T Corp	General	$ 237.90	PRPL - Recreation Division
07/08/2019	824563	AT & T Corp	General	$ 94.38	City Attorney -Legal
07/08/2019	824563	AT & T Corp	Water	$ 1,041.60	PWBELKNAP-WT Water Treatment
07/08/2019	824563	AT & T Corp	General	$ 34.84	PRPL-Parks MiFi 406.850.7416 -West End Shop
07/08/2019	824563	AT & T Corp	Wastewater	$ 471.40	PWBLKNP Electricians -Phones
07/08/2019	824563	AT & T Corp	Wastewater	$ 50.87	PWBLKNP OFFICE -60/40
07/08/2019	824563	AT & T Corp	Transit	$ 121.95	Trans-On Call MET -Lines were requested to be canceled back in April-AT&T did not cancel -took credit
07/08/2019	824563	AT & T Corp	Water	$ 623.41	PWBELKNAP-DIST COLL 60/40
07/08/2019	824563	AT & T Corp	Water	$ 335.82	PWBLKNP MTRSHOP
07/08/2019	824563	AT & T Corp	General	$ 314.86	Code Enforcement
07/08/2019	824563	AT & T Corp	General	$ 5.67	Cemetery -Shop Phone
07/08/2019	824563	AT & T Corp	Wastewater	$ 810.95	PWBLNP-WWTRMNT1 Wastewater Treatment Plant
07/08/2019	824563	AT & T Corp	General	$ 214.93	PRPL -Parks Seasonal
07/08/2019	824563	AT & T Corp	Transit	$ 132.15	Trans-On Call MET -Lines were requested to be canceled back in April-AT&T did not cancel -took credit
07/08/2019	824564	AT Architecture, Inc	Wastewater	$ 1,230.00	Convert Office Area into a Control Room at Solids Process Building at WRF; CONTROLRM-1
07/08/2019	824564	AT Architecture, Inc	Wastewater	$ 2,570.00	Convert Office Area into a Control Room at Solids Process Building at WRF; CONTROLRM-2
07/08/2019	824567	Bcs Scrip	Fleet	$ 4,320.00	Fleet Tool Allowance
07/08/2019	824567	Bcs Scrip	Fleet	$ 1,080.00	Fleet Tool Allowance
07/08/2019	824568	Beartooth Environmental, Inc.	Solid Waste	$ 3,934.50	Hazardous Waste removal from the Landfill 9355
07/08/2019	824568	Beartooth Environmental, Inc.	Solid Waste	$ 4,795.50	Removal of household hazardous waste from the Landfill 9354
07/08/2019	824568	Beartooth Environmental, Inc.	Solid Waste	$ 4,769.00	Removal of Hazardous waste from the Landfill 9354B
07/08/2019	824576	Billings Community Cable	General	$ 20,000.00	Channel 7 Contract for Council Business meetings and Work Sessions
07/08/2019	824590	Business Tax Section	Water	$ 151.50	WATER REPAIR LIST 09.15.2017; 19015

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07/08/2019	824590	Business Tax Section	Gas Tax	$ 37.97	WO 17-04 2017 ADA Ramp Replacement RetRel to Keep
07/08/2019	824590	Business Tax Section	SID Construction	$ 108.77	SID 1404 Annafeld Street Lights; RetRel 1F
07/08/2019	824590	Business Tax Section	Storm Sewer	$ 32.40	WO 19-26 Small Concrete Repair; PMT 1
07/08/2019	824590	Business Tax Section	Gas Tax	$ (37.97)	WO 17-04 Credit Memo Keeping Retainage I19-026956
07/08/2019	824590	Business Tax Section	Wastewater	$ 65.31	WO 17-20 Lift Station Backup Power; WO1720 RetRel 1F
07/08/2019	824590	Business Tax Section	Parks Programs	$ 66.80	Installation of underground electrical at Songbird Garden-NW Energy
07/08/2019	824590	Business Tax Section	Gas Tax	$ 423.54	WO 19-04 2019 Accessibility Ramps; J&J Pmt 1
07/08/2019	824590	Business Tax Section	Solid Waste	$ 6,955.52	WO 17-12 Landfill Reconfiguration; Swank Pmt 3
07/08/2019	824590	Business Tax Section	Ballpark Donations	$ 22.00	Business tax on Dale & Jax for door replacement at Dehler park.
07/08/2019	824590	Business Tax Section	Storm Sewer	$ 2,900.69	WO 18-30 City County Drain Executed Contract; 19114/3 COp
07/08/2019	824590	Business Tax Section	Information Resources	$ 37.18	Retainage Release IT Basement
07/08/2019	824590	Business Tax Section	CDBG	$ 53.97	FORECLOSURE, ACQUISITION / REHAB PROGRAM 215 19th Street West
07/08/2019	824590	Business Tax Section	Storm Sewer	$ 72.74	WO 18-25 Cardiff Road Culvert Replacement; RetRel 1F
07/08/2019	824605	Clean Harbors Environmental Services Inc	Solid Waste	$ 4,555.44	HHW Materials Management at the Landfill 1002826174/1002826260
07/08/2019	824605	Clean Harbors Environmental Services Inc	Solid Waste	$ 2,443.07	HHW Materials Management at the Landfill
07/08/2019	824609	Cop Construction Co	Storm Sewer	$ 287,168.19	WO 18-30 City County Drain Flood Mitigation; 19114/3
07/08/2019	824618	Crowley Fleck PLLP	General	$ 6,000.00	Lobbyist Contract for June 2019
07/08/2019	824619	CTA Inc	Facilities Mngmt	$ 3,471.32	Amendment #3 to Contract for Facilities Master Plan
07/08/2019	824620	Cucancic Construction Inc	Information Resources	$ 3,680.03	Retainage Release IT Basement Offices
07/08/2019	824624	Data Imaging System, Inc.	Building Inspection	$ 5,688.48	I19-026958 Data Imaging System, Inc.
07/08/2019	824625	Dell Computer L P	City County Planning	$ 607.32	i7 Processor 2 27" Monitors Sound Bar Planning Dept.
07/08/2019	824625	Dell Computer L P	City County Planning	$ 1,117.50	i7 Processor 2 27" Monitors Sound Bar Planning Dept.
07/08/2019	824625	Dell Computer L P	General	$ 3,594.41	Qty.2 Dell i7 processors, 2 24" monitors and 2 sound bars -HR Pete and Jolynn Qty.1 Dell i5 Processor, 24" monitor and sound bar -HR Val
07/08/2019	824625	Dell Computer L P	Fire Grants	$ 705.59	15" Inspiron i5 Processor, 12GB, 1TB SSD Fire Presentation Laptop

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07/08/2019	824626	Dell Marketing Lp	Wastewater	$ 5,405.94	10309162116; REPLACEMENT TRP SERVER WWTP 20/2 DC
07/08/2019	824629	Dixie Petro-Chem	Water	$ 3,712.00	Bulk Chlorine
07/08/2019	824629	Dixie Petro-Chem	Water	$ 900.00	Bulk Chlorine
07/08/2019	824629	Dixie Petro-Chem	General	$ 1,126.25	chemicals for the pools 727000100-19
07/08/2019	824629	Dixie Petro-Chem	General	$ 1,351.50	chemicals for the pools 727000099-19
07/08/2019	824633	Downtown Billings Partnership, Inc.	Tax Increment N 27th	$ 23,286.75	Urban Revitalization District operating agreement, approved by Council in budget adoption June 25, 2018
07/08/2019	824642	Empire Garage Owner's Association	Parking	$ 7,837.42	6252019_City of Billings June Assessment
07/08/2019	824644	Energy Laboratories Inc	Water	$ 2,925.00	241515; METALS & CHEMICALS TESTING
07/08/2019	824644	Energy Laboratories Inc	Water	$ 100.00	241798; PURGEABLE ORGANICS TESTING
07/08/2019	824650	Fisher Sand & Gravel Co	Street/Traffic Oper	$ 3,159.52	inv#92602 asphalt
07/08/2019	824657	Gillig Corporation	Transit	$ 3,089.57	40589619
07/08/2019	824657	Gillig Corporation	Transit	$ 2,576.25	40590184
07/08/2019	824657	Gillig Corporation	Transit	$ 34.02	40592079
07/08/2019	824657	Gillig Corporation	Transit	$ 3,089.57	40592080
07/08/2019	824658	Goetz Baldwin & Geddes PC	General	$ 19,547.94	Inv. #26961 Watters et al v. COB
07/08/2019	824662	Graybar Electric Company Inc	Facilities Mngmt	$ 468.00	Inv. 9310791060
07/08/2019	824662	Graybar Electric Company Inc	Facilities Mngmt	$ 2,475.00	Additional 15 Lithonia LTG 40K lights
07/08/2019	824662	Graybar Electric Company Inc	Wastewater	$ 138.13	9310806359; SEWER LIFT SAM S / LLOYD M
07/08/2019	824662	Graybar Electric Company Inc	Airport	$ 530.09	Lithonia High Bay LED lights for BOC, Airport AFRR Facility and MET Transit Facility per attached proposal
07/08/2019	824662	Graybar Electric Company Inc	Transit	$ 473.01	Lithonia High Bay LED lights for BOC, Airport AFRR Facility and MET Transit Facility per attached proposal
07/08/2019	824662	Graybar Electric Company Inc	Facilities Mngmt	$ 1,135.84	Lithonia High Bay LED lights for BOC, Airport AFRR Facility and MET Transit Facility per attached proposal
07/08/2019	824666	Guardian Security Inc	Library	$ 10,280.16	Invoice 408 Security Guard service
07/08/2019	824667	Hach Company	Wastewater	$ 8,631.50	11506828; WRF LAB EQUIPMENT
07/08/2019	824667	Hach Company	Water	$ 1,107.41	CL2 REAGENT P/N: 2556900
07/08/2019	824673	Hawkins Inc.	General	$ 4,649.54	chemicals for pools (4515637)
07/08/2019	824673	Hawkins Inc.	General	$ 290.00	chemicals for pools (4515736)
07/08/2019	824674	HDR, Inc.	Wastewater	$ 1,896.86	YELLOWSTONE RIVER SAMPLING & ANALYSIS PLAN; 1200195258/10
07/08/2019	824674	HDR, Inc.	Water	$ 1,744.56	REVIEW EXISTING RECLAMATION PLANS OF GRAVEL SITES PLANNED FOR PURCHASE AND PREPARE DRAFT MDEQ APPLICATION; 1200196562/6
07/08/2019	824674	HDR, Inc.	Wastewater	$ 15,330.74	W.O. 19-05 Hydrogen Sulfide Mitigation Plan; 1200195840/4

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07/08/2019	824674	HDR, Inc.	Solid Waste	$ 42,331.51	WO 17-12 Landfill Drop-off Facility; 1200196159/23
07/08/2019	824676	High Point Networks LLC	Information Resources	$ 6,900.00	O365 Migration and setup package, which includes 30 hours of engineering time and 5 hours PM
07/08/2019	824676	High Point Networks LLC	Information Resources	$ 22,746.00	EX3400-48P and EX3400-24P Switches for Comm. Center basement includes three years support
07/08/2019	824678	Hose & Rubber Supply Inc	Solid Waste	$ 175.06	E27437.001 inv#E30152-001
07/08/2019	824678	Hose & Rubber Supply Inc	Street/Traffic Oper	$ 364.89	hoses and connectors for dust suppressant pump
07/08/2019	824678	Hose & Rubber Supply Inc	Solid Waste	$ 521.59	E29392.001
07/08/2019	824678	Hose & Rubber Supply Inc	Street/Traffic Oper	$ 186.74	E28778.001 inv#E29171-001
07/08/2019	824678	Hose & Rubber Supply Inc	Street/Traffic Oper	$ 30.53	hose for sprayer
07/08/2019	824678	Hose & Rubber Supply Inc	Solid Waste	$ 9.00	E30090.001
07/08/2019	824678	Hose & Rubber Supply Inc	Solid Waste	$ 96.81	E29198.001
07/08/2019	824678	Hose & Rubber Supply Inc	Solid Waste	$ 378.62	E28780.001
07/08/2019	824678	Hose & Rubber Supply Inc	Solid Waste	$ 213.07	E29640.001
07/08/2019	824678	Hose & Rubber Supply Inc	Solid Waste	$ 396.49	E29147.001
07/08/2019	824678	Hose & Rubber Supply Inc	Solid Waste	$ 56.09	E28878.001
07/08/2019	824678	Hose & Rubber Supply Inc	Solid Waste	$ 386.78	E29008.001
07/08/2019	824678	Hose & Rubber Supply Inc	Solid Waste	$ 361.53	E29454.001
07/08/2019	824678	Hose & Rubber Supply Inc	Wastewater	$ (36.68)	E01602-001-CR
07/08/2019	824678	Hose & Rubber Supply Inc	Wastewater	$ (80.64)	D64711-001-CR
07/08/2019	824678	Hose & Rubber Supply Inc	Fleet	$ 93.10	E27443.001 PO NUM 308504
07/08/2019	824678	Hose & Rubber Supply Inc	Water	$ (55.01)	E01602-001-CR
07/08/2019	824678	Hose & Rubber Supply Inc	Wastewater	$ 106.62	E29481-001; GRIT PUMP
07/08/2019	824679	Iaff	Sidewalk Debt Svc	$ 4,683.09	Payroll Summary
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 40.47	40378046
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 74.21	40378046
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 68.69	40385929
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 352.24	40385931
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 32.44	40385932
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 19.23	40385932
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 9.59	40543656
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 256.04	40385932
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 101.90	40385934
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 42.61	40447495
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 20.38	40447497
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 15.93	40447500
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 15.59	40378042
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 41.26	40378046
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 19.25	40385932
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 19.22	40556766
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 14.99	40505052

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07/08/2019	824683	Ingram Library Services Inc.	Library	$ 21.99	40378043
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 354.02	40447498
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 11.79	40505049
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 21.99	40505051
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 77.18	40556766
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 63.56	40378046
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 28.89	40447494
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 10.61	40447496
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 158.39	40556767
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 179.80	40385932
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 13.17	40505047
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 19.18	40505050
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 43.18	40543657
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 19.24	40556765
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 25.55	40385930
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 91.54	40385932
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 13.19	40385933
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 57.90	40678045
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 16.52	40385930
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 15.92	40447499
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 19.78	40505054
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 42.75	40556766
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 14.74	40385928
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 44.42	40505051
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 30.64	40678045
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 782.03	40385932
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 31.82	40378046
07/08/2019	824683	Ingram Library Services Inc.	Library	$ (19.91)	CR40526949
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 15.59	40556769
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 4.79	40378047
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 87.98	40385932
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 403.03	40447497
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 11.20	40505048
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 66.83	40556768
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 18.39	40678044
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 95.70	40505053
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 31.43	40556766
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 10.61	40734929
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 13.75	40734931
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 130.44	40734930
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 40.11	40731632
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 6.90	40731633
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 16.49	40648057
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 14.72	38751137
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 14.99	40648060

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07/08/2019	824683	Ingram Library Services Inc.	Library	$ 15.92	40648054
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 11.99	40648056
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 17.10	40648055
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 14.74	40648057
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 46.46	40648062
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 17.70	40648053
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 17.70	40648059
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 151.96	40648058
07/08/2019	824683	Ingram Library Services Inc.	Library	$ 81.55	40648061
07/08/2019	824684	Inland Truck Parts Co	Street/Traffic Oper	$ 2,992.50	342593
07/08/2019	824684	Inland Truck Parts Co	Solid Waste	$ 79.89	344213
07/08/2019	824685	Intermountain Electric Service Inc	Wastewater	$ 6,464.42	WO 17-20 Lift Station Backup Power; WO1720 RetRel1F
07/08/2019	824688	Interstate Power Systems, Inc.	Transit	$ 662.52	C007049850:01 PO NUM 308474
07/08/2019	824688	Interstate Power Systems, Inc.	Transit	$ 5,126.59	C007049510:01
07/08/2019	824688	Interstate Power Systems, Inc.	Transit	$ 200.40	C007049746:01 PO NUM 308474
07/08/2019	824688	Interstate Power Systems, Inc.	Transit	$ (5,126.59)	C007049851:01
07/08/2019	824688	Interstate Power Systems, Inc.	Public Safety	$ 107.43	C007049701.01
07/08/2019	824688	Interstate Power Systems, Inc.	Solid Waste	$ 1,993.74	PART/LABOR UNIT 252 PI1612 R007047037
07/08/2019	824689	J & J Concrete Inc.	Gas Tax	$ 41,929.66	WO 19-04 2019 Accessibility Ramps; Pmt 1
07/08/2019	824691	Jay's Waterline Repair	Water	$ 14,998.50	WATER REPAIR LIST 09.15.2017; 19015
07/08/2019	824700	Knife River (JTL Group Inc.)	Street/Traffic Oper	$ 3,089.40	inv#618045 asphalt
07/08/2019	824700	Knife River (JTL Group Inc.)	Street/Traffic Oper	$ 2,749.11	inv#618182 asphalt
07/08/2019	824700	Knife River (JTL Group Inc.)	Street/Traffic Oper	$ 448.02	inv#618474 asphalt
07/08/2019	824700	Knife River (JTL Group Inc.)	Street/Traffic Oper	$ 294.69	inv#620881 asphalt
07/08/2019	824700	Knife River (JTL Group Inc.)	Street/Traffic Oper	$ 146.50	inv#618619 asphalt
07/08/2019	824700	Knife River (JTL Group Inc.)	Street/Traffic Oper	$ 3,513.48	inv#618618 asphalt
07/08/2019	824700	Knife River (JTL Group Inc.)	Street/Traffic Oper	$ 1,255.14	inv#621001 asphalt
07/08/2019	824700	Knife River (JTL Group Inc.)	Street/Traffic Oper	$ 584.25	inv#621485 asphalt
07/08/2019	824702	Kois Brothers Equipment Co	Solid Waste	$ 663.70	116712
07/08/2019	824702	Kois Brothers Equipment Co	Solid Waste	$ 1,773.57	116661
07/08/2019	824702	Kois Brothers Equipment Co	Fleet	$ 1,283.45	116790 PO NUM 307948
07/08/2019	824702	Kois Brothers Equipment Co	Solid Waste	$ 74.08	116454
07/08/2019	824702	Kois Brothers Equipment Co	Solid Waste	$ 861.20	116454
07/08/2019	824707	L N Curtis and Sons	Public Safety	$ 22.65	SHIPPING
07/08/2019	824707	L N Curtis and Sons	Public Safety	$ 96.00	4100L GLOVES, ANCHOR, LEATHER W/PULL STRAP

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07/08/2019	824707	L N Curtis and Sons	Public Safety	$ 7,928.00	BH-20B, 24" PPV FANS DUAL PWR W/BATTERY
07/08/2019	824719	Mailing Technical Services	Central Services	$ 5,308.60	Postage Fund (weekly bills)
07/08/2019	824720	Mallory Safety and Supply LLC	Public Safety	$ 2,623.50	FLICO-722010206 K55 THERMAL CAMERA KIT
07/08/2019	824720	Mallory Safety and Supply LLC	Public Safety	$ 2,623.50	FLICO-722010206 K55 THERMAL CAMERA KIT
07/08/2019	824735	Montana CSED	Sidewalk Debt Svc	$ 3,687.44	Payroll Summary
07/08/2019	824736	Montana Dakota Utilities CNG	Fleet	$ 7,218.52	071119 PO NUM 308513
					Act #048 902 5462 8 / Stmt dated 6/10/19
07/08/2019	824737	Montana Dakota Utilities Co	CDBG	$ 30.72	FORECLOSURE Program - 215 19th St W
07/08/2019	824737	Montana Dakota Utilities Co	Water	$ 21.52	209 077 5055 6
07/08/2019	824737	Montana Dakota Utilities Co	General	$ 25.40	371 101 1000 6
07/08/2019	824737	Montana Dakota Utilities Co	General	$ 52.30	571 295 3342 8
07/08/2019	824737	Montana Dakota Utilities Co	Wastewater	$ 17.04	559 250 1000 5
07/08/2019	824737	Montana Dakota Utilities Co	Water	$ 79.20	410 490 1000 6
07/08/2019	824737	Montana Dakota Utilities Co	Wastewater	$ 26.41	410 490 1000 6
07/08/2019	824737	Montana Dakota Utilities Co	Water	$ 115.21	900 490 1000 3
07/08/2019	824737	Montana Dakota Utilities Co	Water	$ 18.70	110 490 1000 9
07/08/2019	824737	Montana Dakota Utilities Co	Wastewater	$ 66.03	310 490 1000 7
07/08/2019	824737	Montana Dakota Utilities Co	Water	$ 16.46	527 033 1000 4
07/08/2019	824737	Montana Dakota Utilities Co	Wastewater	$ 34.64	017 739 3911 9
07/08/2019	824737	Montana Dakota Utilities Co	Water	$ 198.06	310 490 1000 7
07/08/2019	824737	Montana Dakota Utilities Co	Water	$ 841.89	500 490 1000 7
07/08/2019	824737	Montana Dakota Utilities Co	Water	$ 19.26	666 923 1000 7
07/08/2019	824737	Montana Dakota Utilities Co	Facilities Mngmt	$ 826.77	757 633 1000 2
07/08/2019	824737	Montana Dakota Utilities Co	Parking	$ 28.11	303 725 2591 2
07/08/2019	824737	Montana Dakota Utilities Co	Water	$ 16.46	832 001 1000 1
07/08/2019	824737	Montana Dakota Utilities Co	Facilities Mngmt	$ 1,060.69	929 780 1000 4
07/08/2019	824737	Montana Dakota Utilities Co	Water	$ 21.52	566 923 1000 8
07/08/2019	824737	Montana Dakota Utilities Co	Water	$ 52.46	800 490 1000 4
07/08/2019	824737	Montana Dakota Utilities Co	General	$ 588.30	061 943 1000 6
07/08/2019	824737	Montana Dakota Utilities Co	Solid Waste	$ 110.51	770 390 1000 2
07/08/2019	824737	Montana Dakota Utilities Co	General	$ 35.49	927 890 1000 3
07/08/2019	824737	Montana Dakota Utilities Co	Facilities Mngmt	$ 173.99	993 733 1000 4
07/08/2019	824737	Montana Dakota Utilities Co	Water	$ 75.24	210 490 1000 8
07/08/2019	824737	Montana Dakota Utilities Co	Public Safety	$ 123.06	442 190 1000 4
07/08/2019	824737	Montana Dakota Utilities Co	Wastewater	$ 22.18	470 750 1000 0
07/08/2019	824737	Montana Dakota Utilities Co	Water	$ 8.23	600 490 1000 6
07/08/2019	824737	Montana Dakota Utilities Co	Water	$ 36.61	700 490 1000 5
07/08/2019	824737	Montana Dakota Utilities Co	Wastewater	$ 36.83	868 563 1000 7
07/08/2019	824737	Montana Dakota Utilities Co	Water	$ 32.12	010 490 1000 0
07/08/2019	824737	Montana Dakota Utilities Co	Water	$ 37.99	076 225 9180 3
07/08/2019	824737	Montana Dakota Utilities Co	Water	$ 31.01	510 490 1000 5
07/08/2019	824737	Montana Dakota Utilities Co	Water	$ 16.46	610 490 1000 4
07/08/2019	824737	Montana Dakota Utilities Co	Parking	$ 39.32	799 152 1209 0
07/08/2019	824737	Montana Dakota Utilities Co	Facilities Mngmt	$ 106.60	130 733 1000 8
07/08/2019	824737	Montana Dakota Utilities Co	Water	$ 8.23	600 490 1000 6

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07/08/2019	824737	Montana Dakota Utilities Co	Facilities Mngmt	$ 1,358.05	989 733 1000 0
07/08/2019	824740	Montana State Fireman's Assoc	Sidewalk Debt Svc	$ 4,136.96	Payroll Summary
07/08/2019	824743	Morrison Maierle Inc	Water	$ 10,899.05	WO 17-16 Zone 4 North Fox Pump Station; 194628/19
07/08/2019	824745	Moulton Bellingham PC	General	$ 6,086.00	Inv. #130547 Good Stuff Zoning Violations
07/08/2019	824745	Moulton Bellingham PC	General	$ 2,317.50	Inv. #130704 Watters et al v. COB
07/08/2019	824745	Moulton Bellingham PC	General	$ 22,572.50	Inv. #130606 Terry Houser WWFF
07/08/2019	824745	Moulton Bellingham PC	General	$ 3,525.00	Inv. #130607 Abromeit et al v. COB
07/08/2019	824748	MPPA Montana Police Protective Association	Sidewalk Debt Svc	$ 3,404.80	Payroll Summary
07/08/2019	824753	Napa Auto Parts	Fleet	$ 15.92	113197 PO NUM 308517
07/08/2019	824753	Napa Auto Parts	Fleet	$ 55.99	115246 PO NUM 308517
07/08/2019	824753	Napa Auto Parts	Fleet	$ 9.99	113737 PO NUM 308517
07/08/2019	824753	Napa Auto Parts	Fleet	$ 28.30	114711 PO NUM 308517
07/08/2019	824753	Napa Auto Parts	Fleet	$ 71.90	114357 PO NUM 308517
07/08/2019	824753	Napa Auto Parts	Solid Waste	$ 4.35	115102
07/08/2019	824753	Napa Auto Parts	Solid Waste	$ (23.97)	115300
07/08/2019	824753	Napa Auto Parts	Street/Traffic Oper	$ 11.36	114019
07/08/2019	824753	Napa Auto Parts	Engineering	$ 14.44	115522
07/08/2019	824753	Napa Auto Parts	Public Safety	$ 145.55	113923
07/08/2019	824753	Napa Auto Parts	Fleet	$ 7.96	112520 PO NUM 308489
07/08/2019	824753	Napa Auto Parts	Library	$ 33.23	113522
07/08/2019	824753	Napa Auto Parts	Public Safety	$ 214.01	114238
07/08/2019	824753	Napa Auto Parts	Street/Traffic Oper	$ 227.91	114152
07/08/2019	824753	Napa Auto Parts	General	$ 28.39	115519
07/08/2019	824753	Napa Auto Parts	Solid Waste	$ 29.91	113307
07/08/2019	824753	Napa Auto Parts	Solid Waste	$ 142.35	113788
07/08/2019	824753	Napa Auto Parts	Street/Traffic Oper	$ 610.98	113852
07/08/2019	824753	Napa Auto Parts	Street/Traffic Oper	$ 27.68	62990
07/08/2019	824753	Napa Auto Parts	Public Safety	$ 18.61	115246
07/08/2019	824753	Napa Auto Parts	Street/Traffic Oper	$ (26.34)	115300
07/08/2019	824753	Napa Auto Parts	Street/Traffic Oper	$ 48.21	113991
07/08/2019	824753	Napa Auto Parts	Water	$ 149.03	114298
07/08/2019	824753	Napa Auto Parts	Solid Waste	$ 61.84	114521
07/08/2019	824753	Napa Auto Parts	Fleet	$ 9.70	112392 PO NUM 308489
07/08/2019	824753	Napa Auto Parts	Solid Waste	$ 91.19	113376
07/08/2019	824753	Napa Auto Parts	Fleet	$ 63.30	112353 PO NUM 308489
07/08/2019	824753	Napa Auto Parts	Fleet	$ 105.33	112527 PO NUM 308489
07/08/2019	824753	Napa Auto Parts	Public Safety	$ 16.92	115329
07/08/2019	824753	Napa Auto Parts	Transit	$ 127.75	3977-00-119352
07/08/2019	824753	Napa Auto Parts	Transit	$ 324.79	3977-00-119280 PO NUM 308494
07/08/2019	824753	Napa Auto Parts	Transit	$ 324.79	3977-00-119263 PO NUM 308494
07/08/2019	824753	Napa Auto Parts	Transit	$ 255.50	3977-00-119263
07/08/2019	824753	Napa Auto Parts	General	$ 17.06	112403
07/08/2019	824753	Napa Auto Parts	General	$ 5.56	112566
07/08/2019	824753	Napa Auto Parts	Public Safety	$ 26.72	112358

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07/08/2019	824753	Napa Auto Parts	Transit	$ (8.69)	3977-00-119229
07/08/2019	824753	Napa Auto Parts	Transit	$ 291.44	3977-00-119365 PO NUM 308500
07/08/2019	824753	Napa Auto Parts	Transit	$ 42.35	3977-00-119304
07/08/2019	824753	Napa Auto Parts	Transit	$ 219.83	3977-00-119304
07/08/2019	824753	Napa Auto Parts	Transit	$ (238.42)	3977-00-119680 PO NUM 308501
07/08/2019	824753	Napa Auto Parts	Transit	$ 65.07	3977-00-117228
07/08/2019	824758	NorMont Equipment Company	Street/Traffic Oper	$ 1,879.50	inv#20325 emulsion for road patch machine
07/08/2019	824758	NorMont Equipment Company	Street/Traffic Oper	$ 2,421.25	inv#20320 gutter wire for sweeper brooms
07/08/2019	824760	NorthWestern Energy	Public Safety	$ 2,246.26	0100476-1: STATION #1 - MONTHLY ELECTRICAL CHARGES
07/08/2019	824760	NorthWestern Energy	Water	$ 958.10	0100485-2
07/08/2019	824760	NorthWestern Energy	Water	$ 1,241.92	0722252-4
07/08/2019	824760	NorthWestern Energy	General	$ 137.59	0722265-6
07/08/2019	824760	NorthWestern Energy	General	$ 11.40	0723044-4
07/08/2019	824760	NorthWestern Energy	General	$ 52.98	0920801-8
07/08/2019	824760	NorthWestern Energy	Parks Maintenance	$ 1.06	0971824-8
07/08/2019	824760	NorthWestern Energy	Facilities Mngmt	$ 6,487.64	0100507-3
07/08/2019	824760	NorthWestern Energy	General	$ 1.95	0723051-9
07/08/2019	824760	NorthWestern Energy	General	$ 538.47	0723170-7
07/08/2019	824760	NorthWestern Energy	Water	$ 7,342.86	0100540-4
07/08/2019	824760	NorthWestern Energy	General	$ 108.72	0712683-2
07/08/2019	824760	NorthWestern Energy	General	$ 16.20	0722251-6
07/08/2019	824760	NorthWestern Energy	General	$ 4.29	0722261-5
07/08/2019	824760	NorthWestern Energy	General	$ 42.24	0722277-1
07/08/2019	824760	NorthWestern Energy	General	$ 113.15	0723035-2
07/08/2019	824760	NorthWestern Energy	General	$ 1.05	0722268-0
07/08/2019	824760	NorthWestern Energy	General	$ 7.65	0723090-7
07/08/2019	824760	NorthWestern Energy	Wastewater	$ 79.96	0723383-6
07/08/2019	824760	NorthWestern Energy	General	$ 215.99	1141284-8
07/08/2019	824760	NorthWestern Energy	Water	$ 497.26	0100478-7
07/08/2019	824760	NorthWestern Energy	Parking	$ 376.11	0720829-1
07/08/2019	824760	NorthWestern Energy	General	$ 236.56	0722256-5
07/08/2019	824760	NorthWestern Energy	General	$ 264.76	0722257-3
07/08/2019	824760	NorthWestern Energy	General	$ 0.11	0722260-7
07/08/2019	824760	NorthWestern Energy	General	$ 6.10	0831702-6
07/08/2019	824760	NorthWestern Energy	Street/Traffic Oper	$ 17.52	1045820-6
07/08/2019	824760	NorthWestern Energy	General	$ 6.22	1156527-2
07/08/2019	824760	NorthWestern Energy	Parking	$ 165.68	3279035-4
07/08/2019	824760	NorthWestern Energy	General	$ -	0723027-9
07/08/2019	824760	NorthWestern Energy	Public Safety	$ 1,756.06	1183483-5
07/08/2019	824760	NorthWestern Energy	Engineering	$ 624.28	1741314-7
07/08/2019	824760	NorthWestern Energy	Street/Traffic Oper	$ 7.37	2047000-1
07/08/2019	824760	NorthWestern Energy	Street/Traffic Oper	$ 7.62	2047011-8

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07/08/2019	824760	NorthWestern Energy	Facilities Mngmt	$ 1,202.91	3602454-5
07/08/2019	824760	NorthWestern Energy	Parks Maintenance	$ 6.87	1564209-3
07/08/2019	824760	NorthWestern Energy	Public Safety	$ 283.43	1984150-1
07/08/2019	824760	NorthWestern Energy	Wastewater	$ 1,483.51	2132749-9
07/08/2019	824760	NorthWestern Energy	Parks Maintenance	$ 29.09	1045813-1
07/08/2019	824760	NorthWestern Energy	Parks Maintenance	$ 126.17	1059093-3
07/08/2019	824760	NorthWestern Energy	General	$ 6.10	1230066-1
07/08/2019	824760	NorthWestern Energy	Transit	$ 129.46	1784756-7
07/08/2019	824760	NorthWestern Energy	Street/Traffic Oper	$ 6.10	3648861-7
07/08/2019	824760	NorthWestern Energy	Parks Maintenance	$ 0.83	1312707-1
07/08/2019	824760	NorthWestern Energy	General	$ 7.88	1635289-0
07/08/2019	824760	NorthWestern Energy	General	$ 28.17	1692666-9
07/08/2019	824760	NorthWestern Energy	Street/Traffic Oper	$ 1.59	1797828-9
07/08/2019	824760	NorthWestern Energy	General	$ 7.88	1902257-3
07/08/2019	824760	NorthWestern Energy	Parking	$ 107.43	3463478-2
07/08/2019	824760	NorthWestern Energy	Wastewater	$ 7.75	1704025-4
07/08/2019	824760	NorthWestern Energy	Wastewater	$ 71.97	1704030-4
07/08/2019	824760	NorthWestern Energy	General	$ 43.51	1941243-6
07/08/2019	824760	NorthWestern Energy	Public Safety	$ 248.34	1984155-0
07/08/2019	824760	NorthWestern Energy	General	$ 0.64	Monthly electrical charges for tennis courts at Pioneer (acct. 3241436-9)
07/08/2019	824760	NorthWestern Energy	General	$ 64.65	0712539-6
07/08/2019	824760	NorthWestern Energy	Public Safety	$ 385.56	0720840-8
07/08/2019	824760	NorthWestern Energy	Water	$ 3,903.42	0722270-6
07/08/2019	824760	NorthWestern Energy	Water	$ 1,118.32	0723043-6
07/08/2019	824760	NorthWestern Energy	General	$ 432.70	0723054-3
07/08/2019	824760	NorthWestern Energy	Radio	$ 159.67	1006915-1
07/08/2019	824760	NorthWestern Energy	Street/Traffic Oper	$ 6.10	1242222-6
07/08/2019	824760	NorthWestern Energy	General	$ 1.95	0722262-3
07/08/2019	824760	NorthWestern Energy	Public Safety	$ 8.01	0712532-1
07/08/2019	824760	NorthWestern Energy	General	$ 1,719.41	0100506-5
07/08/2019	824760	NorthWestern Energy	Public Safety	$ 515.54	0712537-0
07/08/2019	824760	NorthWestern Energy	Parking	$ 1,620.74	0720834-1
07/08/2019	824760	NorthWestern Energy	Parking	$ 1,813.34	1569636-2
07/08/2019	824760	NorthWestern Energy	General	$ 42.82	3020837-5
07/08/2019	824760	NorthWestern Energy	Street/Traffic Oper	$ 10.66	0855404-0
07/08/2019	824760	NorthWestern Energy	General	$ 1,021.80	0720841-6
07/08/2019	824760	NorthWestern Energy	Water	$ 9.84	0722249-0
07/08/2019	824760	NorthWestern Energy	General	$ 22.14	0723052-7
07/08/2019	824760	NorthWestern Energy	General	$ 16.24	0978917-3
07/08/2019	824760	NorthWestern Energy	Parking	$ 1,832.08	3067416-2
07/08/2019	824760	NorthWestern Energy	Transit	$ 24.93	0712764-0
07/08/2019	824760	NorthWestern Energy	Wastewater	$ 398.01	0723878-5
07/08/2019	824760	NorthWestern Energy	Parking	$ 733.84	1594282-4
07/08/2019	824760	NorthWestern Energy	Street/Traffic Oper	$ 24.21	1738989-1

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07/08/2019	824760	NorthWestern Energy	Street/Traffic Oper	$ 7.88	2047018-3
07/08/2019	824760	NorthWestern Energy	General	$ 4.18	0723038-6
07/08/2019	824760	NorthWestern Energy	General	$ 749.57	1160780-1
07/08/2019	824760	NorthWestern Energy	General	$ 6.10	3477233-5
07/08/2019	824760	NorthWestern Energy	Facilities Mngmt	$ 66.92	3602453-7
07/08/2019	824760	NorthWestern Energy	P.W. Admin	$ 156.07	1741314-7
07/08/2019	824760	NorthWestern Energy	P.W. Admin	$ 6.06	PWA parking lot electricity #0698856-2
07/08/2019	824760	NorthWestern Energy	CDBG	$ 13.44	215 19th St W / Act. #3581170-2 FORECLOSURE ACQUISITION / REHAB PROGRAM
07/08/2019	824760	NorthWestern Energy	Engineering	$ 24.24	PWA parking lot electricity #0698856-2
07/08/2019	824760	NorthWestern Energy	Public Safety	$ 362.82	0100477-9: FIRE 6 - MONTHLY ELECTRICAL CHARGES
07/08/2019	824760	NorthWestern Energy	Airport	$ 26,074.72	0100482-9. Airport Vault. June 2019
07/08/2019	824760	NorthWestern Energy	Library	$ 7,924.76	Electric usage
07/08/2019	824760	NorthWestern Energy	General	$ 8.43	0722258-1
07/08/2019	824760	NorthWestern Energy	General	$ 116.87	0722275-5
07/08/2019	824760	NorthWestern Energy	General	$ 17.88	0722808-3
07/08/2019	824760	NorthWestern Energy	General	$ 6.22	0722284-7
07/08/2019	824760	NorthWestern Energy	General	$ 91.13	0723005-5
07/08/2019	824760	NorthWestern Energy	General	$ 21.75	0723049-3
07/08/2019	824760	NorthWestern Energy	Parks Maintenance	$ 6.22	0723398-4
07/08/2019	824760	NorthWestern Energy	General	$ 6.22	0722281-3
07/08/2019	824760	NorthWestern Energy	General	$ 8.75	0722852-1
07/08/2019	824760	NorthWestern Energy	Parks Maintenance	$ 8.04	0723386-9
07/08/2019	824760	NorthWestern Energy	Parks Maintenance	$ 6.99	0723393-5
07/08/2019	824760	NorthWestern Energy	Parks Maintenance	$ 1.64	2041362-1
07/08/2019	824760	NorthWestern Energy	Street/Traffic Oper	$ 7.50	2047017-5
07/08/2019	824760	NorthWestern Energy	General	$ 6.60	0722976-8
07/08/2019	824760	NorthWestern Energy	General	$ 8.47	0723039-4
07/08/2019	824760	NorthWestern Energy	Parks Maintenance	$ 6.22	0723395-0
07/08/2019	824760	NorthWestern Energy	Parks Maintenance	$ 151.21	0723879-3
07/08/2019	824760	NorthWestern Energy	Street/Traffic Oper	$ 7.24	2047013-4
07/08/2019	824760	NorthWestern Energy	General	$ 6.22	0722283-9
07/08/2019	824760	NorthWestern Energy	General	$ 8.43	0722862-0
07/08/2019	824760	NorthWestern Energy	Parks Maintenance	$ 8.04	0723388-5
07/08/2019	824760	NorthWestern Energy	Parks Maintenance	$ 2.70	0723391-9
07/08/2019	824760	NorthWestern Energy	General	$ 127.59	0723884-3
07/08/2019	824760	NorthWestern Energy	General	$ 18.48	0723887-6
07/08/2019	824760	NorthWestern Energy	General	$ 35.20	0722278-9
07/08/2019	824760	NorthWestern Energy	Parks Maintenance	$ 6.99	0723885-0
07/08/2019	824760	NorthWestern Energy	Street/Traffic Oper	$ 7.37	2047007-6
07/08/2019	824760	NorthWestern Energy	General	$ 17.88	0722279-7
07/08/2019	824760	NorthWestern Energy	General	$ 52.49	0722901-6
07/08/2019	824760	NorthWestern Energy	General	$ 18.48	0723064-2

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07/08/2019	824760	NorthWestern Energy	General	$ 4.03	0723391-9
07/08/2019	824760	NorthWestern Energy	Parks Maintenance	$ 8.04	0723392-7
07/08/2019	824760	NorthWestern Energy	General	$ 6.22	0722253-2
07/08/2019	824760	NorthWestern Energy	General	$ 17.03	0722259-9
07/08/2019	824760	NorthWestern Energy	Parks Maintenance	$ 8.04	0723385-1
07/08/2019	824760	NorthWestern Energy	Parks Maintenance	$ 6.22	0723394-3
07/08/2019	824760	NorthWestern Energy	Parks Maintenance	$ 52.87	1513800-1
07/08/2019	824760	NorthWestern Energy	Parks Maintenance	$ 19.92	1513802-7
07/08/2019	824760	NorthWestern Energy	General	$ 63.37	0722273-0
07/08/2019	824760	NorthWestern Energy	General	$ 13.90	0722274-8
07/08/2019	824760	NorthWestern Energy	Parks Maintenance	$ 6.22	0723384-4
07/08/2019	824760	NorthWestern Energy	Parks Maintenance	$ 8.04	0723387-7
07/08/2019	824760	NorthWestern Energy	Parks Maintenance	$ 6.22	0723835-5
07/08/2019	824760	NorthWestern Energy	Parks Maintenance	$ 8.43	0723836-3
07/08/2019	824760	NorthWestern Energy	Parks Maintenance	$ 8.13	1513804-3
07/08/2019	824760	NorthWestern Energy	General	$ 10.58	0722272-2
07/08/2019	824760	NorthWestern Energy	General	$ 185.38	0722995-8
07/08/2019	824760	NorthWestern Energy	General	$ 6.22	0723025-3
07/08/2019	824760	NorthWestern Energy	General	$ 6.10	0723046-9
07/08/2019	824760	NorthWestern Energy	Street/Traffic Oper	$ 7.37	2047019-1
07/08/2019	824760	NorthWestern Energy	Parks Maintenance	$ 7.06	0722272-2
07/08/2019	824760	NorthWestern Energy	General	$ 6.22	0722280-5
07/08/2019	824760	NorthWestern Energy	General	$ 18.48	0723065-9
07/08/2019	824760	NorthWestern Energy	Parks Maintenance	$ 6.22	0723396-8
07/08/2019	824760	NorthWestern Energy	General	$ 13.51	0723053-5
07/08/2019	824760	NorthWestern Energy	Parks Maintenance	$ 6.22	0723397-6
07/08/2019	824760	NorthWestern Energy	Parks Maintenance	$ 6.10	0723840-5
07/08/2019	824760	NorthWestern Energy	Parks Maintenance	$ 6.73	0723883-5
07/08/2019	824760	NorthWestern Energy	General	$ 69.19	0999807-1
07/08/2019	824760	NorthWestern Energy	Street/Traffic Oper	$ 7.75	2047010-0
07/08/2019	824761	Northwestern Energy-Billing Dv	Parks Programs	$ 6,613.20	Installation of underground electrical at Songbird garden (1% tax is taken out) original cost is 6680.00
07/08/2019	824762	O2 Architects	General	$ 5,360.00	Inv. #4686 Remodel Finance Department
07/08/2019	824773	Pioneer Technical Services Inc	Solid Waste	$ 4,488.00	Slope Stability Study for the Landfill 11449
07/08/2019	824775	Precision Concrete Cutting	Storm Sewer	$ 3,240.00	WO 19-26 Small Concrete Repair; PMT 1
07/08/2019	824776	Proforce Law Enforcement	Public Safety	$ 42.44	Pro Force Invoices 377217, Glock 19/23 black holster
07/08/2019	824776	Proforce Law Enforcement	Public Safety	$ 1,278.36	Pro Force Invoice 37817, Glock 17/22 Black Holsters (12)
07/08/2019	824776	Proforce Law Enforcement	Public Safety	$ 1,427.76	Pro Force Invoice 375083, tac gun mount (12)
07/08/2019	824777	Protech Mechanical Inc	P.W. Admin	$ 263.75	HVAC Repairs
07/08/2019	824777	Protech Mechanical Inc	Engineering	$ 1,055.00	HVAC Repairs
07/08/2019	824777	Protech Mechanical Inc	Library	$ 4,543.00	Invoice 106479

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					Acct #256618 / 215 19th St W
07/08/2019	824778	Public Utilities	CDBG	$ 87.85	FORECLOSURE ACQUISITION / REHAB PROGRAM
07/08/2019	824778	Public Utilities	General	$ 106.50	Water for Songbird garden
07/08/2019	824778	Public Utilities	Airport	$ 112.02	250850-US Postal Service Gate 15
07/08/2019	824778	Public Utilities	Airport	$ 40.75	250830-Hilsendeger Bldg
07/08/2019	824778	Public Utilities	Airport	$ 92.24	250831-Zone Dispatch-IP6 & IP7
07/08/2019	824778	Public Utilities	Airport	$ 82.22	250836-West End T-Hangars
07/08/2019	824778	Public Utilities	Airport	$ 112.02	250854-Marchi Hangar
07/08/2019	824778	Public Utilities	Airport	$ 45.96	250832-Corp Air/Alpine
07/08/2019	824778	Public Utilities	Airport	$ 276.08	250834-QTA
07/08/2019	824778	Public Utilities	Airport	$ 139.55	250843-Airfield Maintenance Compactor
07/08/2019	824778	Public Utilities	Airport	$ 92.24	250849-Rocky Mountain College-EJC
07/08/2019	824778	Public Utilities	Airport	$ 92.24	250858-Billings Fire Center-BLM
07/08/2019	824778	Public Utilities	Airport	$ 11,933.86	136516
07/08/2019	824778	Public Utilities	Airport	$ 45.96	250859-TSA
07/08/2019	824778	Public Utilities	Airport	$ 112.02	250840-Edwards Jet Center West
07/08/2019	824778	Public Utilities	Airport	$ 249.68	250847-UPS Gate 21
07/08/2019	824778	Public Utilities	Airport	$ 91.92	250848-Edwards Jet Center 1871 Aviation Place
07/08/2019	824778	Public Utilities	Airport	$ 92.24	250857-MT State Lands DEQ/DNRC
07/08/2019	824778	Public Utilities	Wastewater	$ 4,059.75	111176
07/08/2019	824778	Public Utilities	General	$ 92.24	255552
07/08/2019	824778	Public Utilities	Airport	$ 111.64	250845-Airfield Maintenance
07/08/2019	824778	Public Utilities	Airport	$ 55.93	250855-Marchi Office
07/08/2019	824778	Public Utilities	Airport	$ 6.15	250842-Executive Hangars USDA APHIS
07/08/2019	824778	Public Utilities	Airport	$ 66.06	250828-Alpine Air-Maintenance
07/08/2019	824778	Public Utilities	Airport	$ 131.68	250851-Edwards Jet Center 1691 Aviation Place
07/08/2019	824778	Public Utilities	Airport	$ 86.09	250842-Executive Hangars
07/08/2019	824778	Public Utilities	Airport	$ 65.84	250853-Aerotronics
07/08/2019	824783	RDO Equipment Co.	Water	$ 775.15	NONSTOCKING ITEMS-P.U.D.
07/08/2019	824783	RDO Equipment Co.	Water	$ 2,112.00	UNIT 7351
07/08/2019	824783	RDO Equipment Co.	Solid Waste	$ 1,081.62	Filters for Landfill equipment P49981
07/08/2019	824783	RDO Equipment Co.	Water	$ 2,563.29	49675
07/08/2019	824783	RDO Equipment Co.	Solid Waste	$ 200.12	PARTS FOR UNIT 259 P48833
07/08/2019	824783	RDO Equipment Co.	Solid Waste	$ 1,081.62	PARTS FOR UNIT 0259 P49077
07/08/2019	824783	RDO Equipment Co.	Solid Waste	$ 1,097.08	PARTS/LABOR UNIT 0229 W23826
07/08/2019	824783	RDO Equipment Co.	Solid Waste	$ 1,103.18	PARTS FOR UNIT 0259 P48907
07/08/2019	824783	RDO Equipment Co.	Water	$ 292.81	49371
07/08/2019	824791	Sanderson Stewart	Tax Increment South	$ 12,600.58	WO 19-22 King Ave. E (Orchard to Jackson); 46351/2
07/08/2019	824792	Sauer Compressors USA Inc	Solid Waste	$ 16,109.42	CNG Compressor rebuild
07/08/2019	824792	Sauer Compressors USA Inc	Solid Waste	$ 2,413.69	Service on the CNG station 0019288
07/08/2019	824793	Schaefer Systems International Inc	Solid Waste	$ 25,616.34	Truckload of Green Yard Waste Barrels PCINV069207

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07/08/2019	824793	Schaefer Systems International Inc	Solid Waste	$ 25,620.00	Truckload of 90 gallon black barrels for residential service PCINV068467
					CPIPF-PRO4000S 44" Plotter $3560
					Install fee $300
07/08/2019	824795	Selbys	Information Resources	$ 3,997.70	Line Conditioner $137.70
07/08/2019	824800	SHI International Corp	Information Resources	$ 6,019.02	3 years MS O365 agreement thru 2021
07/08/2019	824800	SHI International Corp	City County Planning	$ 269.56	1 MS Office Standard- Planning
					Qty3 MS Office Professionals -HR
07/08/2019	824800	SHI International Corp	General	$ 1,102.80	Pete, Val, Jolynn
07/08/2019	824800	SHI International Corp	General	$ 367.60	MS Office Professional- Mike Whitaker, PRPL
					406.698.7779
					406.794.5065
07/08/2019	824800	SHI International Corp	P.W. Admin	$ 367.60	406.812.0869
07/08/2019	824800	SHI International Corp	City County Planning	$ 325.49	Bluebeam Revnu Standard -Planning
07/08/2019	824806	Solid Waste Systems Inc	Solid Waste	$ 164.56	114885
07/08/2019	824806	Solid Waste Systems Inc	Solid Waste	$ 653.64	114887
07/08/2019	824806	Solid Waste Systems Inc	Solid Waste	$ 129.96	114896
07/08/2019	824806	Solid Waste Systems Inc	Solid Waste	$ 1,336.88	114779
07/08/2019	824806	Solid Waste Systems Inc	Solid Waste	$ 262.35	114902
07/08/2019	824806	Solid Waste Systems Inc	Solid Waste	$ 1,342.20	114788
07/08/2019	824806	Solid Waste Systems Inc	Solid Waste	$ 940.08	114868
07/08/2019	824806	Solid Waste Systems Inc	Solid Waste	$ 4,495.46	114881
07/08/2019	824806	Solid Waste Systems Inc	Solid Waste	$ 2,807.55	115066
07/08/2019	824806	Solid Waste Systems Inc	Solid Waste	$ 158.09	114993
07/08/2019	824806	Solid Waste Systems Inc	Solid Waste	$ 634.25	115298
07/08/2019	824806	Solid Waste Systems Inc	Solid Waste	$ 159.74	115188
07/08/2019	824808	Spectrum Group Architects PC	Information Resources	$ 6,877.00	Design and Construction of IT Basement Remodel
07/08/2019	824810	SRF Consulting Group Inc	City County Planning	$ 21,943.62	BUILD GRANT CONSULTANT AGREEMENT (PLN)
07/08/2019	824823	TargetSolutions Learning, LLC	Public Safety	$ 343.00	TARGET SOLUTIONS PLATFORM
07/08/2019	824823	TargetSolutions Learning, LLC	Public Safety	$ 395.00	MAINTENANCE FEE
07/08/2019	824823	TargetSolutions Learning, LLC	Public Safety	$ 11,286.00	TARGET SOLUTIONS LICENSE RENEWAL
07/08/2019	824825	Taylor	Engineering	$ 464.00	ComDev Refund
07/08/2019	824825	Taylor	City County Planning	$ 3,588.00	ComDev Refund
07/08/2019	824826	Terracon Consultants	Water	$ 12,801.25	WO 19-18 Airport Redundant Waterline; TC04171/2F
07/08/2019	824830	The Babcock LLC	Facilities Mngmt	$ 4,264.29	June 2019 expenses for Unit 1A
07/08/2019	824832	Titan Machinery Inc	Street/Traffic Oper	$ 34.30	12506168
07/08/2019	824832	Titan Machinery Inc	Street/Traffic Oper	$ 19.88	12467688
07/08/2019	824832	Titan Machinery Inc	Street/Traffic Oper	$ 457.76	1022408
07/08/2019	824832	Titan Machinery Inc	Street/Traffic Oper	$ 15.88	12506166
07/08/2019	824832	Titan Machinery Inc	Street/Traffic Oper	$ 1,006.19	1029437
07/08/2019	824832	Titan Machinery Inc	Street/Traffic Oper	$ 93.04	12506166
07/08/2019	824832	Titan Machinery Inc	Street/Traffic Oper	$ 125.74	12467688
07/08/2019	824832	Titan Machinery Inc	Street/Traffic Oper	$ 6,549.60	1017595

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07/08/2019	824834	TMG Services Inc	Water	$ 2,891.94	0043793-IN; VACUUM REGULATOR FOR TRAINING WITH FIRE
07/08/2019	824836	Town & Country Supply Association	Fleet	$ 21,987.51	317399 PO NUm 308479
07/08/2019	824836	Town & Country Supply Association	Public Safety	$ 785.31	318163 FIRE 1: UNLEADED DELIVERED 06/29/2019
07/08/2019	824836	Town & Country Supply Association	Public Safety	$ 818.12	318163 FIRE 1:DIESEL DELIVERED 06/29/2019
07/08/2019	824836	Town & Country Supply Association	Public Safety	$ 214.75	318164 FIRE6: DIESEL
07/08/2019	824836	Town & Country Supply Association	Airport	$ 18,295.31	Invoice #317970. QTA Car Rental Fuel
07/08/2019	824836	Town & Country Supply Association	Public Safety	$ 194.30	318162 FIRE 5: DIESEL DELIVERED 06/28/2019
07/08/2019	824836	Town & Country Supply Association	Public Safety	$ 582.91	318162 FIRE 5: DIESEL DELIVERED 06/28/2019
07/08/2019	824836	Town & Country Supply Association	Public Safety	$ 327.25	318161: FIRE3 - DIESEL DELIVERED
07/08/2019	824836	Town & Country Supply Association	Public Safety	$ 261.77	318162 FIRE 5: UNLEADED DELIVERED 06/28/2019
07/08/2019	824836	Town & Country Supply Association	Public Safety	$ 71.59	318164 FIRE6: DIESEL
07/08/2019	824836	Town & Country Supply Association	Fleet	$ 20,569.98	317976 PO NUM 308511
07/08/2019	824836	Town & Country Supply Association	Public Safety	$ 1,820.32	318159 FIRE 2 - DIESEL DELIVERED
07/08/2019	824836	Town & Country Supply Association	Water	$ 16,398.00	WATER PARTS AND SUPPLIES PO NUM 308407
07/08/2019	824836	Town & Country Supply Association	Solid Waste	$ 30.84	317484
07/08/2019	824836	Town & Country Supply Association	Fleet	$ 7,948.26	317915 PO NUM 308514
07/08/2019	824836	Town & Country Supply Association	Fleet	$ 7,710.40	317484 PO NUM 308490
07/08/2019	824836	Town & Country Supply Association	Fleet	$ 7,638.62	317783 PO NUM 308490
07/08/2019	824837	Tractor & Equipment Co.	Street/Traffic Oper	$ 1,248.47	BLW00191584
07/08/2019	824837	Tractor & Equipment Co.	Solid Waste	$ 229.52	BLW00191484
07/08/2019	824837	Tractor & Equipment Co.	Solid Waste	$ 18.32	PARTS FOR UNIT 0257 PI1617 BLCS0707048/BLWO0191711
07/08/2019	824837	Tractor & Equipment Co.	Solid Waste	$ 2,811.56	PARTS FOR UNIT 0257 PI1617 BLCS0707048/BLWO0191711
07/08/2019	824837	Tractor & Equipment Co.	General	$ 22.00	BLCS0706926
07/08/2019	824837	Tractor & Equipment Co.	General	$ 31.84	BLCS0707149
07/08/2019	824837	Tractor & Equipment Co.	Solid Waste	$ 263,533.00	New Wheel Loader for the Landfill.W2706301
07/08/2019	824837	Tractor & Equipment Co.	Solid Waste	$ 2,424.01	PARTS/LABOR UNIT 0242 PI1620 BLCS00192239
07/08/2019	824841	True North Contracting LLC	Gas Tax	$ 3,640.00	1446; Replaced curb, gutter and sidewalk with ADA compliant approach
07/08/2019	824847	Van Arsdale Construction	CDBG	$ 5,343.33	FORECLOSURE, ACQUISITION / REHAB PROGRAM 215 19th Street West
07/08/2019	824850	Verizon Wireless	Police Programs	$ 214.87	CCSIU MDT
07/08/2019	824850	Verizon Wireless	Engineering	$ 134.85	PW-Engineering
07/08/2019	824850	Verizon Wireless	Solid Waste	$ 107.88	PW-Solid Waste
07/08/2019	824850	Verizon Wireless	Wastewater	$ 183.40	PW-Distribution Collection Tablets 60/40
07/08/2019	824850	Verizon Wireless	Solid Waste	$ 26.97	PW Dozer Trimble Dozer
07/08/2019	824850	Verizon Wireless	Police Programs	$ 408.89	CCSIU Cell/PTT
07/08/2019	824850	Verizon Wireless	Parking	$ 26.97	Parking 406-690-5822

Check Date	Check	Name	Fund Name	Amount	Item Desc
07/08/2019	824850	Verizon Wireless	Transit	$ 308.27	MET AVL
07/08/2019	824850	Verizon Wireless	Library	$ 80.91	LBRY OTRCH Library Outreach
07/08/2019	824850	Verizon Wireless	Public Safety	$ 80.02	Police iPad St John 406-690-5955 Police iPad Lawrence 406-690-2161
07/08/2019	824850	Verizon Wireless	Water	$ (201.66)	PW Belknap Meter Shop
07/08/2019	824850	Verizon Wireless	Street/Traffic Oper	$ 53.94	PW-Streets 406-647-1377 iPad, 406-633-1991 iPad
07/08/2019	824850	Verizon Wireless	Water	$ 26.97	PWBLKNP Water Treatment Brian Risser 406-696-4245
07/08/2019	824850	Verizon Wireless	Water	$ 161.82	PWBLNP Comm-Meter CityWorks/Neptune
07/08/2019	824850	Verizon Wireless	Public Safety	$ 592.43	MDT Toughbooks
07/08/2019	824850	Verizon Wireless	Library	$ 161.04	Library
07/08/2019	824850	Verizon Wireless	Water	$ 80.91	PW-DIS-COLL Cityworks 60/40
07/08/2019	824850	Verizon Wireless	Street/Traffic Oper	$ 161.82	PW-Streets City Works
07/08/2019	824850	Verizon Wireless	Wastewater	$ 53.94	PW-DIS-COLL Cityworks 60/40
07/08/2019	824850	Verizon Wireless	Solid Waste	$ 268.24	PW-SW-ON CALL Solid Waste On Call
07/08/2019	824850	Verizon Wireless	General	$ 44.36	Code Enforcement
07/08/2019	824850	Verizon Wireless	Water	$ 275.09	PW-Distribution Collection Tablets 60/40
07/08/2019	824850	Verizon Wireless	Public Safety	$ 40.01	Police MiFi 406-633-0820 406-598-6294
07/08/2019	824850	Verizon Wireless	Solid Waste	$ 429.30	Solid Waste Tablets -Routware
07/08/2019	824850	Verizon Wireless	General	$ 140.89	City Administrator 0100-13130-403450
07/08/2019	824850	Verizon Wireless	Airport	$ 53.68	Airport
07/08/2019	824850	Verizon Wireless	Police Programs	$ 80.02	CCSIU RAVEN
07/08/2019	824850	Verizon Wireless	Public Safety	$ (7.74)	Police US Marshall Toughbooks
07/08/2019	824852	Voegele Acquisitions Inc	Street/Traffic Oper	$ 1,416.00	inv#367926 Spraying snapshot on landscaped row areas
07/08/2019	824852	Voegele Acquisitions Inc	Street/Traffic Oper	$ 1,972.58	inv#372009 fertilizer for row areas
07/08/2019	824857	Western Municipal Construction Inc	Storm Sewer	$ 7,201.51	WO 18-25 Cardiff Road Culvert Replacement; RetRel 1F

Consent **1. M. 3.**

Regular City Council Meeting

Meeting Date: 08/12/2019

TITLE: Payment of Claims for the week of July 15, 2019

PRESENTED BY: Andy Zoeller

Department: City Hall Administration

Presentation: No

PROBLEM/ISSUE STATEMENT

Claims in the amount of $5,241,020.88 have been audited and are presented for City Council payment approval. A complete listing of the claims for the week are available in the Finance Department.

ALTERNATIVES ANALYZED

No other alternatives were analyzed.

FINANCIAL IMPACT

Claims have a varying impact on department budgets, but are submitted by the departments and reviewed by Finance staff before being sent to the Council.

RECOMMENDATION

Staff recommends Council approve the Payment of Claims.

APPROVED BY CITY ADMINISTRATOR

Attachments

COUNCIL MEMO 07152019

Check Date	Check Number	Name	Fund Name	Check Amount	Description
07/15/2019	825008	St Vincent Occupational Health	City Health Ins Fund	$ 630.00	Inv. 55097
07/15/2019	824980	NorthWestern Energy	Airport	$ 20.54	0719760-1. Gate 14. June 2019
07/15/2019	825008	St Vincent Occupational Health	Public Safety	$ 50.00	Inv. 55097
07/15/2019	825008	St Vincent Occupational Health	Solid Waste	$ 95.00	Inv. 55097
07/15/2019	824903	County Water District Of Billings Heights	Parks Maintenance	$ 1,216.79	Water charges for France's 16219-00
07/15/2019	824903	County Water District Of Billings Heights	General	$ 18.85	Water charges for Arrowhead 13137-00
07/15/2019	824980	NorthWestern Energy	Airport	$ 26.89	0719616-5. ARFF Facility Lights RETR. Closing Bill
07/15/2019	825008	St Vincent Occupational Health	General	$ 95.00	Inv. 55097
07/15/2019	824894	Business Tax Section	Sidewalk Construction	$ 9.52	WO 18-10 Poet Streets - Overlay & Curb; RetRel Final
07/15/2019	824921	Energy Laboratories Inc	Wastewater	$ 300.00	243688; COMPLIANCE
07/15/2019	824980	NorthWestern Energy	Airport	$ 18.64	0712797-0. Gate 9. June 2019
07/15/2019	824980	NorthWestern Energy	Airport	$ 20.05	0719761-9. Gate 15. June 2018
07/15/2019	824980	NorthWestern Energy	Airport	$ 2,540.70	0719543-1. Parking Lot Lights RETR. Closing Bill. June 2019
07/15/2019	825008	St Vincent Occupational Health	Wastewater	$ 124.00	Inv. 55097
07/15/2019	824894	Business Tax Section	Gas Tax	$ 67.88	WO 18-10 Poet Streets - Overlay & Curb; RetRel Final
07/15/2019	824980	NorthWestern Energy	Airport	$ 131.76	0712535-4. Employee Parking. June 2019
07/15/2019	824980	NorthWestern Energy	Airport	$ 18.39	0719759-3. Gate 12. June 2019
07/15/2019	824903	County Water District Of Billings Heights	Parks Maintenance	$ 2,394.32	Water charges for Uinta 17140-00
07/15/2019	824980	NorthWestern Energy	Airport	$ 19.40	0719762-7. Gate 13. June 2019
07/15/2019	824903	County Water District Of Billings Heights	Parks Maintenance	$ 432.14	Water charges for Luthern 10112-00
07/15/2019	824980	NorthWestern Energy	Airport	$ 20.05	2114868-9. Runway Weather System. June 2019
07/15/2019	824980	NorthWestern Energy	Airport	$ 18.91	0712795-4. Gate 17. June 2019
07/15/2019	824903	County Water District Of Billings Heights	Parks Maintenance	$ 505.30	Water charges for Rolling Hills - 09174-00
07/15/2019	824980	NorthWestern Energy	Airport	$ 17.76	0720296-3. Gate 29. June 2019
07/15/2019	825008	St Vincent Occupational Health	General	$ 3,355.00	Inv. 55097
07/15/2019	825008	St Vincent Occupational Health	Public Safety	$ 1,050.00	Inv. 55097
07/15/2019	825008	St Vincent Occupational Health	Street/Traffic Oper	$ 95.00	Inv. 55097
07/15/2019	824903	County Water District Of Billings Heights	Parks Maintenance	$ 2,217.39	Water charges for Walden Grove 30388-00
07/15/2019	824980	NorthWestern Energy	Airport	$ 7.88	0712813-5. Burn Pit. June 2019
07/15/2019	824903	County Water District Of Billings Heights	General	$ 26.84	Water charges for Primrose park 06100-00
07/15/2019	825008	St Vincent Occupational Health	Water	$ 186.00	Inv. 55097
07/15/2019	825008	St Vincent Occupational Health	Wastewater	$ 45.00	Inv. 55097
07/15/2019	824903	County Water District Of Billings Heights	Parks Maintenance	$ 2,180.78	Water charges for Twin Oaks-17196-00
07/15/2019	824996	Sanderson Stewart	Water	$ 21,568.00	WO 19-01 Water/Sewer Replacement Project; 46370-7
07/15/2019	825008	St Vincent Occupational Health	Transit	$ 140.00	Inv. 55097
07/15/2019	824903	County Water District Of Billings Heights	General	$ 2,544.00	Water charges for Arrowhead-13138-00
07/15/2019	824980	NorthWestern Energy	Airport	$ 19.40	0712791-3. Gate 16. June 2019
07/15/2019	824903	County Water District Of Billings Heights	General	$ 191.15	Water charges for Cleavenger 01019-00
07/15/2019	824980	NorthWestern Energy	Airport	$ 6.22	0712805-1. IP-10. June 2019
07/15/2019	825005	Sletten Construction Company	Wastewater	$ 1,427,540.73	WO 14-11 Water Reclamation Facility Nutrient; Pmt 25
07/15/2019	824900	Civicplus	Airport	$ 564.34	Quarterly Custom Mobile App Fee Airport
07/15/2019	824900	Civicplus	Information Resources	$ 189.00	DNS Hosting for billingsmt.gov
07/15/2019	824894	Business Tax Section	Storm Sewer	$ (27.50)	WO 16-10 14th ST W Storm Replce - Grand to Lewis
07/15/2019	824986	Performance Engineering & Consulting	Water	$ 4,541.75	WO 1910 Jellison Road Water Main; 2018-086-006
07/15/2019	824891	Bison Motor Company	Water	$ 32,935.80	SCHEDULE 9; ONE (1) NEW CURRENT MODEL
07/15/2019	824900	Civicplus	Information Resources	$ 287.96	Quarterly CivicSend IT
07/15/2019	824954	Knife River (JTL Group Inc.)	Gas Tax	$ 86,892.67	WO 17-06 Midland Road Improvements; Pmt 8
07/15/2019	824954	Knife River (JTL Group Inc.)	Sidewalk Construction	$ 18,711.00	WO 17-06 Midland Road Improvements; Pmt 8
07/15/2019	824945	High Point Networks LLC	Information Resources	$ 10,400.00	Dell Memory Upgrade -32GB -2Rx4 DDR4 RDIMM 2400MHz
07/15/2019	824886	Billings Community Cable	General	$ 46,350.00	Quarterly Installments
07/15/2019	824954	Knife River (JTL Group Inc.)	Street/Traffic Oper	$ 2,182.53	inv#620749 asphalt

Check Date	Check Number	Name	Fund Name	Check Amount	Description
07/15/2019	824891	Bison Motor Company	Wastewater	$ 21,957.20	SCHEDULE 9; ONE (1) NEW CURRENT MODEL
07/15/2019	824954	Knife River (JTL Group Inc.)	Tax Increment South	$ 44,302.72	WO 17-06 Midland Road Improvements; Pmt 8
07/15/2019	824894	Business Tax Section	Solid Waste	$ 130.42	WO 18-17 Solid Waste CNG Backup Compressor RetRel 1F
07/15/2019	824954	Knife River (JTL Group Inc.)	Wastewater	$ -	WO 17-06 Midland Road Improvements
07/15/2019	824900	Civicplus	Airport	$ 287.96	Quarterly Civic Send Airport
07/15/2019	824900	Civicplus	Information Resources	$ 6,137.77	Quarterly Hosting & Support Fees
07/15/2019	824894	Business Tax Section	Storm Sewer	$ 214.98	54th/Rimrock Storm Drain Improvements; Pmt 2
07/15/2019	824871	Ace Electric Inc	Water	$ 34,867.51	WO1816 Filter Building Console Replacement RetRel 1F
07/15/2019	824954	Knife River (JTL Group Inc.)	Street/Traffic Oper	$ 125.86	inv#622806 asphalt
07/15/2019	824977	Montana State Library	Library	$ 32,883.18	MT Shared Catalog renewal - ILS maintenance
07/15/2019	824894	Business Tax Section	Storm Sewer	$ 100.00	WO 17-07 Hilltop Rd & Aronson Ave Storm Drain Extsn
07/15/2019	824900	Civicplus	Information Resources	$ 78.75	SSL Certificate Quarterly Fee Renewal
07/15/2019	824951	Kadrmas Lee & Jackson	Water	$ 37,768.00	WO 19-01 South Side Triangle Water Main Replacement
07/15/2019	824946	I-State Truck, Inc.	Water	$ 1,392.39	LABOR
07/15/2019	824894	Business Tax Section	Transit	$ 71.13	Remove and dispose of existing fixtures in Shop
07/15/2019	824880	Askin Construction LLC	Gas Tax	$ 6,721.32	WO1810 Poet Streets Askin Retainage Release Final
07/15/2019	824894	Business Tax Section	Water	$ 36.69	WO 17-18 Water Treatment Plant Rip Rap; RetRel 1F
07/15/2019	824965	Midland Implement Co Inc	General	$ 3,271.92	Rainbird rotors-irrigation parts
07/15/2019	824953	Kittelson & Associates Inc	Gas Tax	$ 9,480.85	WO 18-09 Downtown Traffic Study; RetRel 1F
07/15/2019	824949	J & J Concrete Inc.	Gas Tax	$ 10,357.84	WO 18-02 Misc Developer RetRel 1F
07/15/2019	824994	Routematch Software, Inc.	Transit	$ 5,031.18	Annual Hosting Fees (Cloud) 07/19 to 06/20
07/15/2019	824980	NorthWestern Energy	Transit	$ 2,626.30	Electricity at METroplex 5/24/19 to 6/27/19
07/15/2019	824946	I-State Truck, Inc.	Water	$ 1,645.29	NONSTOCKING ITEMS-P.U.D.
07/15/2019	824962	M-B Companies, Inc.	Airport	$ 27,358.80	6 Broom Core Sets for Runway Sweepers
07/15/2019	824883	Bibliotheca LLC	Library	$ 37,318.23	Invoice S10050064-US
07/15/2019	824880	Askin Construction LLC	Sidewalk Construction	$ 943.14	WO1810 Poet Streets Askin Retainage Release Final
07/15/2019	824949	J & J Concrete Inc.	Public Safety	$ 83.95	WO 18-02 Misc Developer RetRel 1F
07/15/2019	824894	Business Tax Section	Solid Waste	$ 18.23	WO 17-18 Water Treatment Plant Rip Rap; RetRel 1F
07/15/2019	824882	Bcs Scrip	General	$ 2,625.00	3rd Quarter Service Milestones 2019
07/15/2019	824894	Business Tax Section	Transit	$ 471.05	Two Heavy Duty Four Post Drive-On Bus Lifts
07/15/2019	824949	J & J Concrete Inc.	Sidewalk Construction	$ 8,833.50	WO 18-02 Misc Developer RetRel 1F
07/15/2019	824879	Archie Cochrane	Transit	$ 831.56	5288091 PO NUM 308486
07/15/2019	824925	FirstMark Construction LLC	Storm Sewer	$ 21,283.42	54th/Rimrock Storm Drain Improvements; Pmt 2
07/15/2019	824984	PayneWest Insurance Inc	Property Ins	$ 434,033.00	Inv. 238347 Renewal Commercial Property Policy
07/15/2019	824879	Archie Cochrane	Public Safety	$ 179.78	5286765
07/15/2019	824879	Archie Cochrane	Public Safety	$ 166.71	5287849
07/15/2019	824879	Archie Cochrane	Public Safety	$ 33.04	5286257
07/15/2019	824879	Archie Cochrane	Public Safety	$ 1,778.90	847554.1
07/15/2019	824879	Archie Cochrane	Public Safety	$ 132.62	5286672
07/15/2019	824879	Archie Cochrane	Public Safety	$ (400.00)	5286858
07/15/2019	824879	Archie Cochrane	Public Safety	$ 23.12	5287459
07/15/2019	825035	Wilbur Ellis Co	General	$ 188.00	Fertilizer- 12811060
07/15/2019	824879	Archie Cochrane	Public Safety	$ 124.46	5285904
07/15/2019	824984	PayneWest Insurance Inc	Property Ins	$ 18,478.74	Inv. 238438 Renewal Business Boiler & Equipment
07/15/2019	825035	Wilbur Ellis Co	General	$ 2,320.00	Fertilizer - 12768178
07/15/2019	824879	Archie Cochrane	Public Safety	$ 276.92	5287527
07/15/2019	824879	Archie Cochrane	Public Safety	$ 50.14	5287890
07/15/2019	824879	Archie Cochrane	Public Safety	$ 51.98	5287898
07/15/2019	824902	Cop Construction Co	Water	$ 134,873.90	WO 17-16 Fox Pump Station Improvements; Pmt 9
07/15/2019	824879	Archie Cochrane	Street/Traffic Oper	$ 74.87	5286044
07/15/2019	824879	Archie Cochrane	Public Safety	$ 148.96	5287976

Check Date	Check Number	Name	Fund Name	Check Amount	Description
07/15/2019	824879	Archie Cochrane	Public Safety	$ 20.65	5286031
07/15/2019	824879	Archie Cochrane	Public Safety	$ 1,309.80	5286669
07/15/2019	824971	Montana League Of Cities and Towns	General	$ 25,000.00	2019-2020 Membership Dues
07/15/2019	824942	Hawkins Inc.	General	$ 290.00	chemicals for pools
07/15/2019	824980	NorthWestern Energy	General	$ 45.38	Monthly electrical charges for the tennis courts at Pioneer
07/15/2019	824879	Archie Cochrane	Street/Traffic Oper	$ 10.34	5287076
07/15/2019	824879	Archie Cochrane	Public Safety	$ 148.96	5287556
07/15/2019	825035	Wilbur Ellis Co	General	$ 140.00	Fertilizer - 12733222
07/15/2019	824879	Archie Cochrane	Public Safety	$ (400.00)	5286383
07/15/2019	824879	Archie Cochrane	Public Safety	$ 145.02	5286456
07/15/2019	825035	Wilbur Ellis Co	General	$ 302.50	Fertilizer - 12744257
07/15/2019	824879	Archie Cochrane	Public Safety	$ 276.92	5286580
07/15/2019	824879	Archie Cochrane	Public Safety	$ 132.62	5285857
07/15/2019	824984	PayneWest Insurance Inc	Property Ins	$ 5,294.00	Inv. 238692 Renewal Public Employee Dishonesty Policy
07/15/2019	824879	Archie Cochrane	Public Safety	$ 49.73	5286071
07/15/2019	825035	Wilbur Ellis Co	General	$ 140.00	Fertilizer - 12712086
07/15/2019	824879	Archie Cochrane	Public Safety	$ 18.80	5286371
07/15/2019	824900	Civicplus	P.W. Admin	$ 16,069.00	CivicPlus PW Sub-Site Agreement; 188163
07/15/2019	825035	Wilbur Ellis Co	General	$ 676.00	Fertilizer - 12779784
07/15/2019	824879	Archie Cochrane	Public Safety	$ 1,185.32	5286131
07/15/2019	824880	Askin Construction LLC	Gas Tax	$ 10,290.73	WO 18-10 Poet Streets - Overlay & Curb; Pmt 8F
07/15/2019	824874	Allstream Business US Inc	Building Inspection	$ 39.00	Building FAX 406-657-8252
07/15/2019	824938	Hansers Automotive	Transit	$ (500.00)	P0059375
07/15/2019	824894	Business Tax Section	Storm Sewer	$ 27.50	WO 16-10 14th ST W Storm Replce - Grand to Lewis
07/15/2019	824880	Askin Construction LLC	Sidewalk Construction	$ 291.16	WO 18-10 Poet Streets - Overlay & Curb; Pmt 8F
07/15/2019	824874	Allstream Business US Inc	CDBG	$ 39.21	Community Development Services FAX
07/15/2019	824871	Ace Electric Inc	Transit	$ 7,041.83	Remove & dispose existing lighting fixtures in the shop
07/15/2019	824874	Allstream Business US Inc	CDBG	$ 39.00	Planning FAX 406-657-8327
07/15/2019	824874	Allstream Business US Inc	Public Safety	$ 39.00	CPC line 247-8592
07/15/2019	824894	Business Tax Section	Wastewater	$ 14,419.60	WO 14-11 Water Reclamation Facility Nutrient; Pmt 25
07/15/2019	824914	DOWL	Sidewalk Construction	$ 474.94	WO 16-05 Central Ave - Shiloh to 32nd St W
07/15/2019	824938	Hansers Automotive	Transit	$ 3,050.00	R007500
07/15/2019	824904	Crowley Fleck PLLP	General	$ 2,500.00	Lobbyist contract
07/15/2019	824914	DOWL	Arterial Streets	$ 74.23	WO 16-05 Central Ave - Shiloh to 32nd St W
07/15/2019	825021	Town & Country Supply Association	Transit	$ 12,329.74	400454 PO NUM 308595
07/15/2019	824874	Allstream Business US Inc	Telephone System	$ 283.60	Main Bill New Account # 330046
07/15/2019	825021	Town & Country Supply Association	Transit	$ 4,558.57	400011 PO NUM 308595
07/15/2019	824892	Boys & Girls Club	Tax Increment South	$ 58,375.00	June_2019
07/15/2019	824914	DOWL	Wastewater	$ 723.48	WO 16-05 Central Ave - Shiloh to 32nd St W
07/15/2019	824942	Hawkins Inc.	Water	$ 26,644.40	BULK AQUA HAWK 457
07/15/2019	825012	Steiner Thuesen PLLC	Rose Park Pool Construction	$ 7,333.85	Centennial Park development
07/15/2019	824914	DOWL	Water	$ 586.79	WO 16-05 Central Ave - Shiloh to 32nd St W
07/15/2019	824894	Business Tax Section	Tax Increment South	$ 447.50	WO 17-06 Midland Road Improvements; Pmt 8
07/15/2019	824894	Business Tax Section	Facilities Mngmt	$ 108.94	BOC High Bay LED Lighting Retrofit
07/15/2019	824983	OverDrive, Inc.	Library	$ 30,993.80	Inv CD0152619119409 MontanaLibrary2Go subscription
07/15/2019	824979	Napa Auto Parts	Transit	$ 46,633.87	Two Heavy Duty Four Post Drive-On Bus Lifts for MET Shop
07/15/2019	824894	Business Tax Section	Wastewater	$ -	WO 17-06 Midland Road Improvements
07/15/2019	825021	Town & Country Supply Association	Airport	$ 19,689.60	Invoice #317993. QTA Car Rental Fuel
07/15/2019	824894	Business Tax Section	Rose Park Pool Construction	$ 790.03	Centennial Park phase 1 construction-FristMark Construction
07/15/2019	824894	Business Tax Section	Sidewalk Construction	$ 189.00	WO 17-06 Midland Road Improvements; Pmt 8
07/15/2019	824894	Business Tax Section	Gas Tax	$ 877.71	WO 17-06 Midland Road Improvements; Pmt 8

Check Date	Check Number	Name	Fund Name	Check Amount	Description
07/15/2019	824996	Sanderson Stewart	City County Planning	$ 8,670.12	Inner Belt Loop Corridor Study-SW01012019
07/15/2019	824894	Business Tax Section	Facilities Mngmt	$ 6.71	Change order
07/15/2019	824894	Business Tax Section	Public Safety	$ 0.85	WO 18-02 Misc Developer RetRel 1F
07/15/2019	824921	Energy Laboratories Inc	Wastewater	$ 755.00	243066; QUARTERLY MONITORING
07/15/2019	824942	Hawkins Inc.	Water	$ 36.76	4529251; CHLORINE FOR DISINFECTING
07/15/2019	824911	DHM Design Corporation	Park District 1	$ 224.14	Coulson Park master plan - reimbursables
07/15/2019	824911	DHM Design Corporation	Park District 1	$ 13,949.61	Coulson Park master plan
07/15/2019	825025	TTCL Services LLC	Airport	$ 3,246.01	FY19 Window Cleaning Service July 2018 - June 2019
07/15/2019	824910	Dell Computer L P	General	$ 2,547.84	Qty.16 24" Monitors
07/15/2019	824912	Donnes Inc	Solid Waste	$ 1,805.22	WO 17-18 Water Treatment Plant Rip Rap; RetRel 1F
07/15/2019	824894	Business Tax Section	Gas Tax	$ 104.62	WO 18-02 Misc Developer RetRel 1F
07/15/2019	824894	Business Tax Section	Ballpark Donations	$ -	Business tax on Dale & Jax
07/15/2019	824925	FirstMark Construction LLC	Rose Park Pool Construction	$ 78,212.00	Construct phase 1 of Centennial Park
07/15/2019	825023	Transitional Marketing LLC	Transit	$ 7,334.64	Routes and Schedule books
07/15/2019	824894	Business Tax Section	Sidewalk Construction	$ 89.22	WO 18-02 Misc Developer RetRel 1F
07/15/2019	824980	NorthWestern Energy	Water	$ 285.11	1920951-9 JUNE 2019; MONTHLY SERVICE FEE
07/15/2019	824958	L P Anderson Tire Co. Inc.	Airport	$ 6,445.20	Invoice #1117335. A-19 Tires
07/15/2019	824912	Donnes Inc	Water	$ 3,631.86	WO 17-18 Water Treatment Plant Rip Rap; RetRel 1F
07/15/2019	824921	Energy Laboratories Inc	Wastewater	$ 755.00	244077; 191873, 191875, 191890 PRIMARY INFLUENT
07/15/2019	824894	Business Tax Section	Ballpark Donations	$ 2.90	Retainage release
07/15/2019	824954	Knife River (JTL Group Inc.)	Street/Traffic Oper	$ 951.90	inv#622100 asphalt
07/15/2019	824896	Century Link	Solid Waste	$ 118.42	406-245-9820 Solid Waste Landfil
07/15/2019	824896	Century Link	Telephone System	$ 88.54	406-248-9124 Met Measured Lines 406-248-9179
07/15/2019	824896	Century Link	Information Resources	$ 38.90	406-245-4437 Kenco Security Alarm IT Alarm
07/15/2019	824957	KTVQ Communications, Inc.	General	$ 2,191.52	Advertising-161799-2
07/15/2019	824984	PayneWest Insurance Inc	Airport	$ 15,568.00	Invoice #238425. 7/1/19 - 7/1/20 Renewal Policy Airport Fire
07/15/2019	824984	PayneWest Insurance Inc	Airport	$ 11,505.00	Invoice #238404. 7/1/19 - 7/1/20 Renewal Policy for D&O and
07/15/2019	824896	Century Link	Airport	$ 38.90	406-245-1044 Airport Terminal Power M
07/15/2019	825029	Utilities Underground Location Ctr	Street/Traffic Oper	$ 479.24	9055058; MONTHLY EXCAVATION NOTIFICATIONS
07/15/2019	824896	Century Link	EOC 911	$ 0.08	406-255-9702 E911 Backup Line 4 Call Reroute
07/15/2019	824874	Allstream Business US Inc	Airport	$ 44.29	Airport Alarm 406-294-8370
07/15/2019	824944	Healthy Is LLC	City Health Ins Fund	$ 13,333.16	Inv. 1018
07/15/2019	824896	Century Link	Street/Traffic Oper	$ 38.90	406-245-9906 PW Traffic Signal 4th 27
07/15/2019	825029	Utilities Underground Location Ctr	Airport	$ 18.84	Invoice #9065025. Underground Locates June 2019
07/15/2019	824935	Great West Engineering, Inc	Solid Waste	$ 19,060.55	WO 19-19 Landfill Cells 3&4 Partial Closure; 19767
07/15/2019	825029	Utilities Underground Location Ctr	Storm Sewer	$ 479.24	9055058; MONTHLY EXCAVATION NOTIFICATIONS
07/15/2019	824896	Century Link	Public Safety	$ 38.92	406-245-6600 Crime Prevention Alarm
07/15/2019	824896	Century Link	Telephone System	$ 60.74	406-245-1579 Library 6 lines (4) Library 2600-55120-403450
07/15/2019	825029	Utilities Underground Location Ctr	Water	$ 287.55	9055058; MONTHLY EXCAVATION NOTIFICATIONS
07/15/2019	825029	Utilities Underground Location Ctr	Wastewater	$ 191.70	9055058; MONTHLY EXCAVATION NOTIFICATIONS
07/15/2019	825029	Utilities Underground Location Ctr	Storm Sewer	$ 453.73	9065057; MONTHLY EXCAVATION NOTICES
07/15/2019	824896	Century Link	Public Safety	$ 49.27	406-655-0728 Fire Maintenance Shop
07/15/2019	825029	Utilities Underground Location Ctr	Street/Traffic Oper	$ 453.73	9065057; MONTHLY EXCAVATION NOTICES
07/15/2019	825029	Utilities Underground Location Ctr	Street/Traffic Oper	$ 453.73	9065057; MONTHLY EXCAVATION NOTICES
07/15/2019	824973	Montana Municipal Interlocal Authority	Property Ins	$ 1,212,155.00	Liability
07/15/2019	824943	HDR, Inc.	Solid Waste	$ 5,700.00	WO 18-37 Landfill Master Plan Release 1F
07/15/2019	824894	Business Tax Section	Water	$ 352.19	WO1816 Filter Building Console Replacement WO1816
07/15/2019	824957	KTVQ Communications, Inc.	General	$ 910.00	Advertising-165275-2
07/15/2019	824896	Century Link	Transit	$ 50.67	406-254-7038 MET Transit
07/15/2019	825029	Utilities Underground Location Ctr	Airport	$ 20.41	Invoice #9055025. Underground Locates May 2019

Check Date	Check Number	Name	Fund Name	Check Amount	Description
07/15/2019	824896	Century Link	EOC 911	$ 7,307.21	406-255-9700 E911
07/15/2019	825029	Utilities Underground Location Ctr	Street/Traffic Oper	$ 479.24	9055058; MONTHLY EXCAVATION NOTIFICATIONS
07/15/2019	825029	Utilities Underground Location Ctr	Water	$ 272.24	9065057; MONTHLY EXCAVATION NOTICES
07/15/2019	824871	Ace Electric Inc	Facilities Mngmt	$ 11,449.16	BOC High Bay LED Lighting Retrofit
07/15/2019	824984	PayneWest Insurance Inc	Airport	$ 48,180.00	Invoice #238155. 7/1/19 - 7/1/20 Renewal Business Airport
07/15/2019	824902	Cop Construction Co	Storm Sewer	$ 2,722.50	WO 16-10 14th ST W Storm Replce - Grand to Lewis
07/15/2019	824896	Century Link	Public Safety	$ 40.00	406-245-1743 Fire Elevator
07/15/2019	824896	Century Link	Telephone System	$ 80.00	406-248-3329 Airport Measured Lines 406-248-9989
07/15/2019	824896	Century Link	Solid Waste	$ 64.57	406-245-7193 Solid Waste Landfill
07/15/2019	825029	Utilities Underground Location Ctr	Wastewater	$ 181.49	9065057; MONTHLY EXCAVATION NOTICES
07/15/2019	824896	Century Link	Library	$ 182.52	406-245-1579 Library 6 lines (4) Library 2600-55120-403450
07/15/2019	824939	Harolds Upholstery	Airport	$ 3,452.98	Invoice #97010464. Temporary Hold Gate Seating
07/15/2019	824914	DOWL	Water	$ 56,602.00	WO 18-01 2018 Water & Sewer Sch 1 N 27th Watermain;
07/15/2019	825031	Warren Transport Inc	Water	$ 43,696.58	WO 19-20 WTP Solids Hauling; Pmt 1F
07/15/2019	824972	Montana Municipal Interlocal Authority	Property Ins	$ 42,103.28	Deductible Recovery Invoice for July 2019
07/15/2019	825027	Unemployment Ins Contributions Bureau	Sidewalk Debt Svc	$ 56,108.68	Quarterly Report for quarter end June 30, 2019
07/15/2019	824942	Hawkins Inc.	General	$ 1,042.00	chemicals and repairs for Rose pool
07/15/2019	824942	Hawkins Inc.	Park District 1	$ 1,385.00	chemicals and repairs for Rose pool
07/15/2019	824954	Knife River (JTL Group Inc.)	Street/Traffic Oper	$ 2,392.29	inv#622808
07/15/2019	824921	Energy Laboratories Inc	Water	$ 495.00	243871; METALS TESTING
07/15/2019	824894	Business Tax Section	Water	$ 441.38	WO 19-20 WTP Solids Hauling; Pmt 1F
07/15/2019	824980	NorthWestern Energy	Wastewater	$ 98.84	Electricity EA
07/15/2019	824879	Archie Cochrane	Property Ins	$ 99.99	Inv. 749821 BPD #1571
07/15/2019	824879	Archie Cochrane	Property Ins	$ 3,068.53	Inv. 847641 BPD #1571
07/15/2019	824877	American Assoc Of Airport Executive	Airport	$ 6,500.00	Invoice #1059746. IET Maintenance from 7/1/19 - 6/30/20.
07/15/2019	824916	EBMS	City Health Ins Fund	$ 1,445.00	July 2019 Fee Breakdown
07/15/2019	824916	EBMS	City Health Ins Fund	$ 4,638.35	July 2019 Fee Breakdown
07/15/2019	824924	Ferguson Enterprises Inc #3201	Water	$ 1,984.11	MAIN VALVE RUBBER 5-1/4" IMPROVED HYDRANT H-88
07/15/2019	824916	EBMS	City Health Ins Fund	$ 27,255.09	July 2019 Fee Breakdown
07/15/2019	824916	EBMS	City Health Ins Fund	$ 53,574.33	July 2019 Fee Breakdown
07/15/2019	824916	EBMS	City Health Ins Fund	$ 1,522.50	July 2019 Fee Breakdown
07/15/2019	824999	Seon Design Incorporated	Transit	$ 11,775.00	Upgrade MET Transit's Camera System
07/15/2019	824975	Montana Municipal Interlocal Authority	Sidewalk Debt Svc	$ 492,944.87	Workers' Compensation Program 4-6/2019
07/15/2019	824924	Ferguson Enterprises Inc #3201	Water	$ 1,459.92	P/N: 333-035-00620
07/15/2019	824875	Alpine Plumbing, Heating & Cooling	Facilities Mngmt	$ 3,035.00	Invoice #79237
07/15/2019	824968	Missoula Public Library	Library	$ 7,556.00	Subscription renewal for Heritage Quest and Ancestry
07/15/2019	824946	I-State Truck, Inc.	Public Safety	$ (172.50)	C251266064.01
07/15/2019	824910	Dell Computer L P	Library	$ 16,147.46	Computer order per TRP
07/15/2019	824916	EBMS	City Health Ins Fund	$ 1,018.50	July 2019 Fee Breakdown
07/15/2019	825032	Watson Label Products	Library	$ 3,615.00	Invoice 98089
07/15/2019	824894	Business Tax Section	Wastewater	$ 96.00	STAR SERV 52538; REPAIR SLUDGE PUMPS
07/15/2019	824879	Archie Cochrane	Fleet	$ 185.01	5286610 PO NUM 308502
07/15/2019	824874	Allstream Business US Inc	General	$ 46.00	Main Bill New Account # 330046 -Dehler Park
07/15/2019	825010	Star Service Inc	Wastewater	$ 9,504.00	52538; REPAIR TWO SLUDGE PUMPS
07/15/2019	825038	Zayo Group LLC	Telephone System	$ 2,527.57	Bill Account#026770 -T1 Ethernet Connection
07/15/2019	824879	Archie Cochrane	Fleet	$ 115.97	5285904 PO NUM 308502
07/15/2019	824874	Allstream Business US Inc	Telephone System	$ 2,244.01	Main Bill New Account # 330046 -Dehler Park
07/15/2019	824879	Archie Cochrane	Fleet	$ 71.11	5286456 PO NUM 308502
07/15/2019	824879	Archie Cochrane	Fleet	$ 14.80	5286206 PO NUM 308502
07/15/2019	824879	Archie Cochrane	Fleet	$ 1,044.33	5287454 PO NUM 308546

Check Date	Check Number	Name	Fund Name	Check Amount	Description
07/15/2019	824874	Allstream Business US Inc	Telephone System	$ 79.95	Main Bill New Account # 330046 -IT
07/15/2019	824879	Archie Cochrane	Fleet	$ 88.16	5286765 PO NUM 308546
07/15/2019	824894	Business Tax Section	Water	$ 1,362.36	WO 1716 Fox Pump Station Improvements; Pmt 9
07/15/2019	824879	Archie Cochrane	Fleet	$ 19.70	5285904 PO NUM 308502
07/15/2019	824879	Archie Cochrane	Fleet	$ 397.84	5286796 PO NUM 308546
07/15/2019	824879	Archie Cochrane	Fleet	$ 274.56	5286031 PO NUM 308502
07/15/2019	824879	Archie Cochrane	Fleet	$ 1,193.52	5286880 PO NUM 308546
07/15/2019	824932	Graber Manufacturing Inc	Parks Programs	$ 6,352.56	8 walden 6' bench - recycled plastic weathered redwood
07/15/2019	824995	Routeware Inc	Solid Waste	$ 13,004.06	100529; PRODUCT TRAINING
07/15/2019	824921	Energy Laboratories Inc	Wastewater	$ 410.00	244132; METALS TESTING
07/15/2019	824902	Cop Construction Co	Storm Sewer	$ (2,722.50)	WO 16-10 14th ST W Storm Replce - Grand to Lewis, keeping
07/15/2019	824914	DOWL	Arterial Streets	$ 77.50	WO 19-15 24th St W/Central Ave Signal Improvements; 4-
07/15/2019	824935	Great West Engineering, Inc	Solid Waste	$ 9,033.10	WO 19-19 Landfill Cells 3&4 Partial Closure; 19606/1
07/16/2019	825041	Petty Cash CCSIU	Police Programs	$ 3,798.80	Reimbursement of Evidence/Information. Receipts on file at
07/18/2019	825042	South Billings Urban Renewal Association	Tax Increment South	$ 34,675.00	Invoice 1 FY2020 Consulting Services for SBURA

Regular City Council Meeting

Meeting Date: 08/12/2019

TITLE: Resolution Adopting Yellowstone County Multi-Hazard Mitigation Plan 2019 Update

PRESENTED BY: Kevin Iffland, Assistant City Administrator

Department: City Hall Administration

Presentation: Yes

PROBLEM/ISSUE STATEMENT

The City Council is being asked to adopt by resolution the Yellowstone County Multi-Hazard Mitigation Plan. In response to requirements of the Disaster Mitigation Act of 2000 (DMA 2000), Yellowstone County, the cities of Billings and Laurel, and the Town of Broadview have developed this Multi-Jurisdictional Multi-Hazard Mitigation Plan (MHMP). DMA 2000 amends the Stafford Act and is designed to improve planning for, response to,and recovery from, disasters by requiring state and local entities to implement hazard mitigation planning and develop MHMPs. The Federal Emergency Management Agency (FEMA) has issued guidelines for development of MHMPs. The Montana Disaster and Emergency Services (DES) supports plan development for jurisdictions in the State of Montana. This Plan does not include the Crow Indian Reservation, located in the south portion of Yellowstone County, which is a sovereign nation with its own hazard mitigation plan.

Yellowstone County completed and adopted a Pre-Disaster Mitigation (PDM) Plan in 2004 to help guide and focus hazard mitigation activities. The original PDM Plan was updated in 2012. The County, working together with Tetra Tech Inc., has prepared this 2019 MHMP update to satisfy the requirement that hazard mitigation plans be updated every five years. The updated Yellowstone County MHMP profiles significant hazards to the community and identifies mitigation projects that can reduce those impacts. The purpose of the updated MHMP is to promote sound public policy designed to protect residents, critical facilities, infrastructure, private property, and the environment from natural and man-made hazards. The updated Yellowstone County MHMP includes resources and information to assist residents, organizations, local government, and others interested in participating in planning for natural and man-made hazards.

ALTERNATIVES ANALYZED

City Council may:

- Approve, the Resolution adopting the Yellowstone County Multi-hazard Mitigation Plan or;
- Modify the resolution providing staff with modifications or;
- Disapprove the resolution

FINANCIAL IMPACT

No direct financial costs with adopting the resolution.

RECOMMENDATION

Staff recommends approving the Resolution Adopting Yellowstone County Multi-Hazard Mitigation Plan 2019 Update

APPROVED BY CITY ADMINISTRATOR

Attachments

Yellowstone Mitigation Plan
Resolution Adopting County Multi-Hazard Mitigation Plan
Multi-hazard Mitigation Plan Presentation

Draft
Multi-Hazard Mitigation Plan

Yellowstone County, MT
Cities of Billings and Laurel, Town of Broadview

March 2019

TETRA TECH

2019 UPDATE TO
MULTI-HAZARD MITIGATION PLAN

FOR

YELLOWSTONE COUNTY, MONTANA
AND
CITIES OF BILLINGS AND LAUREL
& TOWN OF BROADVIEW

***Prepared for*:**

Yellowstone County Disaster and Emergency Services
316 N. 26th Street, Rm 3201
Billings, Montana 59107

Prepared by:

Tetra Tech Inc.
825 W. Custer Ave.
Helena, Montana 59602
(406) 443-5210

March 2019

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LIST OF ACRONYMS

BBWA	Billings Bench Water Association
BLM	Bureau of Land Management
BNSF	Burlington Northern-Santa Fe Railroad
CDBG	Community Development Block Grant
CDC	Centers for Disease Control
CDP	Census Designated Place
CEIC	Census and Economic Information Center
cfs	Cubic Feet Per Second
CPRI	Calculated Priority Risk Index
CRP	Conservation Reserve Program
CRS	Community Rating System
CWPP	Community Wildfire Protection Plan
DEQ	Department of Environmental Quality (Montana)
DES	Disaster and Emergency Services
DFIRM	Digital Flood Insurance Rate Map
DHS	U.S. Dept. of Homeland Security
DMA	Disaster Mitigation Act
DNRC	Department of Natural Resources and Conservation (Montana)
DOI	U.S. Department of Interior
DPHHS	Montana Dept. of Public Health and Human Services
EAP	Emergency Action Plan
EDA	Economic Development Authority
EMPG	Emergency Management Performance Grant
EOC	Emergency Operations Center
EPA	U.S. Environmental Protection Agency
EPCRA	Emergency Planning and Community Right to Know Act
FBI	Federal Bureau of Investigation
FAA	Federal Aviation Administration
FEMA	Federal Emergency Management Agency
FMA	Flood Mitigation Assistance
FMAG	Fire Management Assistance Grant
FP&S	Fire Prevention & Safety
FSA	Farm Service Agency
FWS	U.S. Fish and Wildlife Service
GIS	Geographic Information Systems
HES	High Emissions Scenario
HAZUS	Hazards of the United States
HMGP	Hazard Mitigation Grants Program
HPID	Huntley Project Irrigation District
IBC	International Building Code
ICS	Incident Command System
IDSA	Infectious Disease Society of America

LIST OF ACRONYMS

IRC	International Residential Building Code
IT	Information Technology
LEPC	Local Emergency Planning Committee
LERD	Lands, Easements, Rights-of-way, Relocations, and Disposal
LES	Low Emissions Scenario
MATIC	Montana All Threat Incident Center
MDOR	Montana Department of Revenue
MDT	Montana Department of Transportation
MDU	Montana Dakota Utilities
MG	Million Gallons
MGD	Million Gallons Per Day
MHMP	Multi-Hazard Mitigation Plan
MOU	Memorandum of Understanding
MRL	Montana Rail Link
MSU	Montana State University
NCDC	National Climatic Data Center
NDRP	National Drought Resiliency Partnership
NFIP	National Flood Insurance Program
NFPA	National Fire Protection Association
NOAA	National Oceanic and Atmospheric Administration
NRCS	Natural Resources Conservation Service
NRIS	Natural Resource Information System (Montana)
NTSB	National Transportation Safety Board
NWS	National Weather Service
PDM	Pre-Disaster Mitigation
PDMC	Pre-Disaster Mitigation Competitive (grants program)
RFA	Rural Fire Assistance
SHELDUS	Spatial Hazard Events and Losses Database for the United States
SPLC	Southern Poverty Law Center
TRI	Toxic Release Inventory
USACE	United States Army Corps of Engineers
USDA	United State Department of Agriculture
USDOT	United States Department of Transportation
WRN	Weather Ready Nation
WUI	Wildland Urban Interface
YVEC	Yellowstone Valley Electric Cooperative

RESOLUTIONS

Reserved for resolutions:

- Yellowstone County,
- City of Billings,
- City of Laurel,
- Town of Broadview.

SECTION 1. INTRODUCTION

1.1 Background

In response to requirements of the Disaster Mitigation Act of 2000 (DMA 2000), Yellowstone County, the cities of Billings and Laurel, and the Town of Broadview have developed this Multi-Jurisdictional Multi-Hazard Mitigation Plan (MHMP). DMA 2000 amends the Stafford Act and is designed to improve planning for, response to, and recovery from, disasters by requiring state and local entities to implement hazard mitigation planning and develop MHMPs. The Federal Emergency Management Agency (FEMA) has issued guidelines for development of MHMPs. The Montana Disaster and Emergency Services (DES) supports plan development for jurisdictions in the State of Montana. This Plan does not include the Crow Indian Reservation, located in the south portion of Yellowstone County, which is a sovereign nation with its own hazard mitigation plan.

> ***Hazard Mitigation*** is any sustained action taken to reduce or eliminate the long term risk and effects that can result from specific hazards.
>
> FEMA defines a ***Hazard Mitigation Plan*** as the documentation of a state or local government evaluation of natural hazards and the strategies to mitigate such hazards.

Yellowstone County completed and adopted a Pre-Disaster Mitigation (PDM) Plan in 2004 to help guide and focus hazard mitigation activities. The original PDM Plan was updated in 2012. The County, working together with Tetra Tech Inc., has prepared this 2019 MHMP update to satisfy the requirement that hazard mitigation plans be updated every five years. The updated Yellowstone County MHMP profiles significant hazards to the community and identifies mitigation projects that can reduce those impacts. The purpose of the updated MHMP is to promote sound public policy designed to protect residents, critical facilities, infrastructure, private property, and the environment from natural and man-made hazards. The updated Yellowstone County MHMP includes resources and information to assist residents, organizations, local government, and others interested in participating in planning for natural and man-made hazards. This 2019 updated MHMP supersedes the 2012 and 2004 PDM Plans.

1.2 Authority

The 2019 update to the Yellowstone County MHMP has been developed pursuant to the requirements in the Interim Final Rule for hazard mitigation planning and the guidance in the State and Local Plan Interim Criteria under DMA 2000. The Plan also meets guidance developed by FEMA in March of 2013 for Local Mitigation Planning.

The Yellowstone County Board of County Commissioners have adopted this MHMP. Also adopting the Plan are the incorporated communities of Billings, Laurel, and Broadview. These governing bodies have the authority to promote sound public policy regarding natural and man-made hazards in their jurisdictions. Copies of the signed resolutions are included at the beginning of this Plan. The MHMP was adopted at the regularly scheduled County Commission and City/Town Council meetings, which were open to the public and advertised through the typical process the jurisdictions use for publicizing meetings.

Yellowstone County will be responsible for submitting the adopted MHMP to FEMA for review. Upon acceptance by FEMA, Yellowstone County and the incorporated communities of Billings, Laurel, and Broadview will remain eligible for mitigation project grants and post-disaster hazard mitigation grant projects.

1.3 Acknowledgements

Many groups and individuals have contributed to development of the Yellowstone County MHMP. Yellowstone County provided support for all aspects of plan development including providing digital locations and insurance values for the critical facilities and infrastructure used in the MHMP analysis. The MHMP Planning Team, comprised of various members of the Local Emergency Planning Committee (LEPC), planning officials from municipal departments, first responders, and other community members, met on a regular basis to guide the project, identify the hazards most threatening to Yellowstone County, developed and prioritized mitigation projects, reviewed draft deliverables and attended the public meetings. Other local community members participated in the planning process by attending public meetings and contributed to plan development by reviewing and commenting on the draft plan.

1.4 Scope and Plan Organization

The process followed to prepare the 2019 Yellowstone County MHMP update included the following:

- Review and prioritize disaster events that are most probable and destructive,
- Identify and update critical facilities,
- Identify and update areas within the community that are most vulnerable,
- Identify and update goals for reducing the effects of a disaster event,
- Identify and update projects to be implemented for each goal,
- Identify and update procedures for monitoring progress and updating the MHMP,
- Review the draft MHMP, and
- Adopt the updated MHMP.

The MHMP is organized into sections that describe the planning process (Section 2), community profile (Section 3), risk assessment (Section 4), mitigation strategies (Section 5) and plan maintenance (Section 6). Appendices containing supporting information are included at the end of the plan.

SECTION 2. PLANNING PROCESS

The 2019 Yellowstone County MHMP is the result of a collaborative effort between Yellowstone County, the incorporated communities of Billings, Laurel, and Broadview, utilities, local agencies, non-profit organizations, businesses, and regional, state and federal agencies. The planning effort was facilitated by the contractor, Tetra Tech. Public participation played a key role in development of goals and mitigation projects, as outlined below. For the purposes of this planning effort, the public is defined as residents of Yellowstone County, local departments, state and federal partners that support activities in the county, neighboring communities and local organizations.

2.1 MHMP Planning Team

The Yellowstone County DES Coordinator requested that members of the stakeholders group serve as the MHMP Planning Team for the purposes of updating the Plan. Volunteers were solicited from the stakeholder group and invited to attend the various meetings and workshops in accordance with their expertise. Individuals who attended Planning Team meetings are listed in **Appendix A-1**. The affiliation of these participants is presented in **Table 2.1-1.**

Table 2.1-1. Agencies Represented on the MHMP Planning Team

Organization / Department / Position	Type of Organization
Yellowstone County / Emergency and General Services / DES Coord.	County Government
Yellowstone County / 911 Center	County Government
Yellowstone County / Commissioner	County Government
Yellowstone County / Floodplain Administrator	County Government
Yellowstone County / GIS	County Government
Yellowstone County / Information Technology	County Government
Yellowstone County / Sheriff's Office	County Government
Yellowstone County / Art Museum	County-Owned Facility
City of Billings / Building Official & Floodplain Administrator	City Government
City of Billings / Communications & Data Systems	City Government
City of Billings / Fire Dept.	City Government
City of Billings / Park Superintendent	City Government
City of Billings / Public Works / Director	City Government
City of Billings / Public Works / Environmental Affairs	City Government
City of Billings Regional Haz-Mat Team	Regional Response
City of Laurel / Public Works Dept.	City Government
City of Laurel / Chief Administrator	City Government
City of Laurel / Police Dept. / Chief	City Government
Town of Broadview / Fire Dept.	Town Government
Lockwood Fire Dept.	County Response
Bureau of Land Management / Fire Prevention	Federal Government
National Weather Service	Federal Government
U.S. Dept. of Homeland Security	Federal Government
Montana Disaster & Emergency Services / District Field Officer	State Government
Montana Dept. of Transportation	State Government
Ag Worker Health & Services / Strategic Planning Coordinator	Non-Profit
American Red Cross	Non-Profit
Big Sky Economic Development	Local Organization
RiverStone Health	Medical
St. Vincent Health Care	Medical
CHS Refinery-Pipelines-Terminal	Business – Industry

Table 2.1-1. Agencies Represented on the MHMP Planning Team

Organization / Department / Position	Type of Organization
Diamond B Solutions	Business
Loveland Products	Business
Montana Prescribed Fire Services	Business

Responsibilities of the Planning Team included attending conference calls to discuss update of the Plan, providing data for analysis in the risk assessment, attending public meetings, providing input and feedback on mitigation strategies, reviewing the draft plan document, and supporting the plan throughout the adoption process. The MHMP Planning Team will assist Yellowstone County DES in updating the Plan in the future.

The Planning Team met six times over the course of the project; once to rank the hazards, once to review critical facilities and hazard impact maps, and four other times to update the mitigation strategy. Conference calls were held on June 13 and July 11, 2018, and January 16 and 30, and February 13 and 27, 2019. The six-month gap between Planning Team meetings #2 and #3 was to allow Yellowstone County to hire a new emergency manager. In advance of each conference call, an agenda and/or materials to be discussed (i.e. hazard maps, hazard ranking matrices, example mitigation strategies, etc.) were emailed to meeting participants and posted on the project website. Planning Team conference call notes are presented in **Appendix A-5**.

2.2 Project Stakeholders

The planning process was initiated by preparing a stakeholders list of individuals whose input was needed to help prepare the MHMP. Planning partners on the stakeholders list received a variety of information during the project including invitations to participate in Planning Team meetings, public meeting notices, documents for review, and the draft mitigation strategy. **Appendix A-1** presents the stakeholders list for this project.

On the County level, project stakeholders included the County Commissioners, County Attorney, Emergency Manager, Facilities Superintendent, Planning Division Manager, Floodplain Administrator, Clerk and Recorder, Superintendent of Schools, and representatives from the Sheriff's Dept., Central Services, GIS Dept., Public Works Dept., Road and Bridge Dept., Health Dept., County Extension, Art Museum, and Information Technologies. These entities participated in the planning process by either providing data, attending Planning Team and/or public meetings or reviewing the draft MHMP.

Stakeholders from the City of Billings included: the Mayor, City Manager, City Council members, City Attorney, City Clerk, Fire Marshall, Floodplain Administrator, and representatives from the Building Dept., Planning Dept., Water and Wastewater Dept., Police Dept., Fire Dept., Public Works Dept., Regional Haz-Mat Team, School District, 911 Call Center, and Billings-Logan International Airport,. These entities participated in the MHMP update by either providing data, attending Planning Team and/or public meetings or reviewing the draft plan.

Stakeholders from the City of Laurel included: the Chief Administrator, City Clerk, Police Chief, Floodplain Administrator, Fire Marshal, School Superintendent, and representatives from the Fire Dept. and Public Works Dept. These individuals participated in the MHMP update by either attending Planning Team and/or public meetings or reviewing the draft plan.

Stakeholders from the Town of Broadview included the Mayor, School Superintendent, Town Clerk, and Fire Chief. These individuals participated in the MHMP by either attending Planning Team and/or public meetings or reviewing the draft plan.

Stakeholders from the unincorporated communities included representatives from water and sewer districts, ditch water users associations, school districts, and volunteer fire departments. They participated in the MHMP update by either attending Planning Team and/or public meetings or reviewing the draft plan.

Stakeholders from federal agencies included representatives from: the National Weather Service (NWS), Bureau of Land Management (BLM), Federal Bureau of Investigation (FBI), and Environmental Protection Agency (EPA). These agencies participated in the MHMP update by provided information data for plan development, attended Planning Team and/or public meetings, and/or viewed the draft MHMP.

Stakeholders from state agencies included representatives from: Montana DES, Montana Highway Patrol, Montana Woman's Prison, Montana State University-Billings, Montana Dept. of Transportation, and Montana Dept. of Natural Resources and Conservation (DNRC). These entities participated in the planning process by providing data for the plan, attended Planning Team and/or public meetings, and/or viewed the draft MHMP.

Non-governmental stakeholders including non-profit and local organizations, utilities, the healthcare community, and other businesses. Businesses included: Phillips 66, CHS Refinery-Pipelines and Terminals, Cenex Refinery, Exxon Mobil Refinery, SM Loveland Products, Montana Prescribed Fire Service, Jupiter Sulphur, American Medical Response, Alternatives, Inc., Brenntag Pacific Inc., Loveland Products, United Blood Services, Diamond B Technology Solutions, and Sysco Food Services, Energy. Utilities included: NorthWestern Energy, Yellowstone Valley Electric, and Montana Dakota Utility. Representatives from the healthcare community included: Billings Clinic, St. Vincent Health Care, RiverStone Health, and Advanced Care Hospital. Non-profit organizations included: Business Watch Montana, Big Sky Economic Development, Living Independently Today/Tomorrow, Yellowstone Amateur Radio Club, Salvation Army, Rimrock Foundation, the American Red Cross, United Way, HOPE Animal Assisted Crisis Response Dogs, Montana Migrant Workers Council, and St. John's Lutheran Ministries. Several of these entities attended the Planning Team and/or public meetings or reviewed the draft MHMP update.

Planning partners from adjoining jurisdictions included: the Big Horn, Carbon, Golden Valley, Musselshell, Stillwater, and Treasure County and Crow Indian Reservation DES Coordinators. The Carbon County DES Coordinator attended the project kick-off meeting; however, other entities did not offer input on the Yellowstone County MHMP update.

2.3 Review of Existing Plans and Studies

At the initiation of the project, planning documents, regulations, and studies completed for Yellowstone County, the cities of Billings and Laurel, and the Town of Broadview, and the region were obtained from relevant websites and/or provided by the DES office. Documents were reviewed in order to determine how hazard mitigation is integrated into local land use planning, ordinances, and programs. Contributing plans, regulations, and studies reviewed by the contractor included:

DAMS

- Emergency Action Plan, Cooney Dam (Carbon County)
- Emergency Action Plan, Yellowtail Dam (Big Horn County)

EMERGENCY OPERATIONS

- Yellowstone County Dept. of Emergency & General Services, Capabilities Assessment and Strategic Improvement Plan, FY2017-2021
- Yellowstone County Emergency Operations Plan, 2011
- Yellowstone County Emergency Resource Information, 2016

FLOODPLAIN STUDIES

- Flood Insurance Study, Yellowstone County and Incorporated Areas, 2013
- Groundwater Model and Background Data, West Billings Flood Mitigation and Groundwater Recharge Study (PBS&J, 2010)

GROWTH POLICIES, ORDINANCES & REGULATIONS

- Yellowstone County Growth Policy, 2008
- Yellowstone County Subdivision Regulations, 2017
- Yellowstone County Floodplain Regulations, 2013
- City of Billings Growth Policy, 2016
- City of Billings Subdivision Regulations, 2015
- City of Billings Zoning Regulations
- City of Laurel Growth Management Plan, 2013
- Billings Heights Neighborhood Plan, 2006
- Central Terry Park Neighborhood Plan, 1999
- Highland Neighborhood Lockwood Community Plan, 2006
- Lockwood Growth Policy, 2016
- North Elevation Neighborhood Plan, 1994
- North Park Neighborhood Plan, 2008
- Northwest Shiloh Neighborhood Plan, 2005
- Shepherd Community Action Plan
- South Billings Master Plan, 2012
- Southside Neighborhood Plan, 2008
- West Billings Plan, 2001

HAZARD MITIGATION

- Yellowstone County Pre-Disaster Mitigation Plan, 2012
- Yellowstone County Community Wildfire Protection Plan, 2006
- Crow Indian Reservation Pre-Disaster Mitigation Plan, 2015

OTHER

- City of Billings Strategic Plan, 2014
- City of Billings Capital Improvement Plan, FY2020 to FY 2024
- Billings Urban Area Transportation Improvement Program, 2015-2019
- Billings Water/Wastewater Master Plan, 2006
- Billings Long-Range Transportation Plan, 2014
- Billings Bench Water User's Association, Main Canal Evaluation, 2018

Data obtained from the plan and regulation review was incorporated into various sections of the MHMP. A summary of land use implementation tools is presented in *Section 3.7.1*. *Section 4.0* contains reference to the plans and ordinances affecting hazard management and future development. *Section 6.3* includes a discussion on how mitigation can be implemented through existing programs.

2.4 Project Website

A website was set up at the start of the project to provide information to the Planning Team, project stakeholders and the citizens of Yellowstone County. The project website can be viewed at: www.countypdm.com/ (password: Billings). The website remained active during the course of the project through adoption of the Plan.

The website contained a Home page and pages for: Contacts, Planning Team, Meetings, Draft MHMP, Maps, and References. The Home page contained a letter inviting to public to participate in development of the MHMP. The Contacts page contained information on Tetra Tech and County personnel involved in management of the project. The Planning Team page contained the meeting schedule, agendas, handouts, and notes from Planning Team meetings. The Meetings page contained the public meeting schedule, notes, handouts and presentations from the public meetings. The Draft MHMP page contained sections from the draft plan for stakeholder review. The Maps page contained draft versions of the critical facility and hazard maps prepared for the project. The References page contained the 2012 Yellowstone County PDM Plan, FEMA guidance on preparing multi-jurisdictional hazard mitigation plans, the FEMA Region 8 Plan Review Guidance dated September 2011, FEMA Mitigation Ideas Handbook dated January 2013, FEMA Local Mitigation Planning Handbook dated March 2013, and links to the State of Montana Multi-Hazard Mitigation Plan and FEMA websites.

2.5 Project Meetings

Two public meetings were conducted during development of the MHMP. The first public meeting was held to kick-off the project. At this meeting, the 2012 PDM plan was reviewed and hazard events over the past six years were discussed. The second public meeting was held to review the final risk assessment and mitigation strategy and present the plan to the jurisdictions prior to adoption. Sign-in sheets, handouts, presentations, and meeting notes are contained in **Appendix B** and posted on the project website.

The first public meetings were held in early May 2018. An evening meeting was held in the Lincoln Center meeting room in Billings on May 9. The following day, a morning meeting was held in conjunction with an LEPC meeting at Fire Station #1 in Billings. The May 3, 2018 edition of the Laurel Outlook and the May 7, 2018 edition of the Billings Gazette newspaper published articles on the MHMP update project and advertised the public meeting. A meeting notice was sent via e-mail to all

project stakeholders, posted on the Yellowstone County Facebook page, and the meeting notice was posted on the project website. Media documentation is presented in **Appendix A-2**.

During the first public meeting, Tetra Tech made a presentation which reviewed and analyzed each section of the 2012 Yellowstone County PDM plan, outlined the background and rationale for updating the Plan, the process and methodology for the update, and the project schedule. **Table 2.5-1** describes the outcome of the 2012 PDM Plan review.

Table 2.5-1. Review and Analysis of 2012 Pre-Disaster Mitigation Plan

2012 PDM Sections	How Reviewed and Analyzed
Section 1 - Introduction	Reviewed existing section through discussion at kick-off meeting. No analysis needed. Moved and updated sections entitled *Project Area Location, Land Use, Economy, and Population* and *Infrastructure and Facilities* to Section 3 – Community Profile.
Section 2 – Multi-Jurisdictional Planning Process and Public Involvement	Identified new and emerging hazards to include in updated Plan. Outlined planning process for Plan update to include public meetings, planning team conference calls, project website, and plan review process.
Section 3 – Multi-Jurisdictional Hazard Risk Assessment	Reviewed and analyzed existing section through discussion during kick-off meeting and Planning Team conference calls. Scored hazards using Calculated Priority Risk Index. Reviewed and updated critical facility data. Updated and created new hazard area impact maps. Reviewed, updated and created new hazard profiles incorporating data on recent events. Completed new risk assessment, including discussion on climate change for each hazard. Included hazard composite map and evaluation of future development.
Section 4 – Multi-Jurisdictional Hazard Mitigation Strategy	Reviewed during Planning Team conference calls. New projects developed, existing projects re-worded and/or deleted, completed projects documented. Identified implementation details including responsible dept., progress made, planned activities, potential funding sources, and proposed schedule. Updated information of funding sources. Included new section on Capability Assessment.
Section 5 – Multi-Jurisdictional Plan Maintenance	Reviewed and analyzed existing section through discussion during kick-off meeting and Planning Team conference calls. Determined that plan maintenance procedures outlined in previous plan were implemented but not documented.

The meeting presentation was placed on the project website for stakeholders who could not attend the meeting (**Appendix A-4**). Approximately 40 individuals attended the public meetings including representatives from: Yellowstone County DES, Sheriff Dept., Art Museum, and GIS; the City of Billings Mayor, Billings Fire and Regional Haz-Mat Team, Billings Floodplain Administrator, Billings Logan International Airport, and Airport Fire; City of Laurel Public Work Director and Police Chief; Shepherd VFD; Carbon County DES; Montana DES and Montana Fire Training School; St. Vincent Healthcare, Billings Clinic, and RiverStone Health; the BLM, NWS, and FBI; Big Sky Economic Development, American Red Cross, and St. John's Lutheran Ministries; and United Blood Services, CHS Refinery, Loveland Products, Phillips 66, and Diamond B Technology Solutions.

THIS PARAGRAPH WILL BE UPDATED AFTER THE FINAL PUBLIC MEETING IS HELD

A second public meeting to review the draft MHMP was held on May X, 2019 at the Yellowstone County DES meeting room in Billings. A notice of the meeting was sent via email to the project stakeholders and advertised in the local newspapers, via social media and posted on the project website. Tetra Tech presented the results of the MHMP risk assessment and updated mitigation strategy to the County and jurisdictions prior to Plan adoption. XX (XX) individuals attended the

public meeting including ……. Public meeting attendees networked before and after the meeting, listened to the presentation, and asked questions.

2.6 Plan Review

The planning process for the MHMP began on April 1, 2018 and lasted approximately 16 months. The public was provided at least two opportunities for comment prior to adoption of the plan. The first opportunity was during the drafting process. A notice was placed in the newspaper, on the project website, hung in public places, and communicated via social media regarding availability of the draft MHMP. The notice indicated the Plan was available in hard copy at the Yellowstone County DES office, electronically on compact disk (CD) upon request, or available on the project website. An e-mail announcement was sent to the project stakeholders with instructions on how to comment on the draft MHMP.

The draft document was produced with line numbers to aid in the review process. Reviewers were asked to submit their comments on the draft plan to the Yellowstone County DES Coordinator after a review period of approximately 60 days (March 29 to May 31, 2019). The first public review of the draft Plan was held concurrent with the review by Montana DES. Comments received from this review were addressed in a plan revision (final draft) which was submitted to FEMA for review and concurrence.

At this point a second opportunity was provided to the public to comment. The final draft plan was posted on the project website and stakeholders were notified of its availability via an e-mail for a second review from June 1 to 15, 2019, an approximate 15-day review period. Any final comments were addressed, and the final version of the Plan was provided to the Yellowstone County Board of County Commissioners, the Billings and Laurel City Commissions, and the Broadview Town Council for adoption. After adoption, copies of the resolutions were submitted to Montana DES and FEMA.

Future comments on the MHMP should be addressed to:

Yellowstone County Disaster and Emergency Services
316 N. 26th Street, Rm. 3201
Billings, Montana 59107
(406) 256-2775

SECTION 3. COMMUNITY PROFILE

This section of the MHMP presents an overview of Yellowstone County, the communities of Billings, Laurel, and Broadview, and the unincorporated communities within the county. Information is provided on the characteristics of the county, the economy and land use patterns, and presents the backdrop for this mitigation planning process.

3.1 Physical Setting

Yellowstone County is located in south-central Montana, between the Great Plains and the Rocky Mountains. The county is bordered by Musselshell County to the north, Treasure County to the northeast, Big Horn County to the southeast, Carbon County to the southwest, Stillwater County to the west, and Golden Valley County to the northwest. Billings, the county seat, is located in central Yellowstone County and at 43 square miles is the largest city in Montana. The Crow Indian Reservation occupies the southeast portion of Yellowstone County. **Figure 1** presents a location map of Yellowstone County.

The Yellowstone River forms the dominant physiographic feature in Yellowstone County. As the river winds its way from the southwest portion of the county near Laurel to the northeast corner near Custer, it is flanked by a broad alluvial valley. The only tributaries of the Yellowstone River that carry water year-round are the Clarks Fork of the Yellowstone, Bighorn River and Pryor Creek. The Clarks Fork defines a small segment of the west county boundary while the Bighorn River forms a small segment of the east county boundary. Other county drainages that flow intermittently but with some regularity include Alkali Creek, Blue Creek, and Canyon Creek.

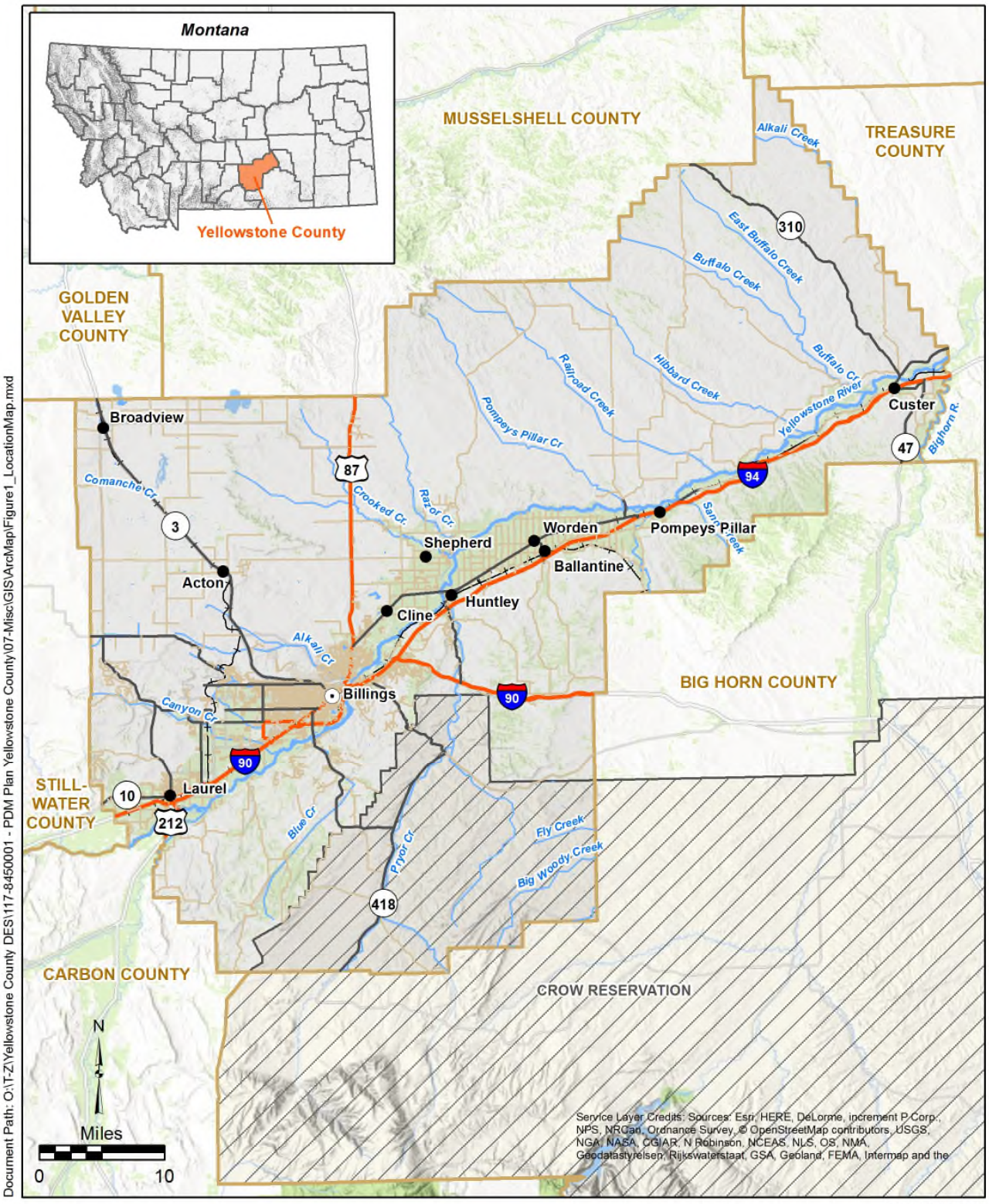
Plains occupy the largest portion of the county north and south of the Yellowstone River. The topography of the plains varies with the thickness of the underlying shale and the presence of sandstone beds. Thicker shale beds translate into more gently rolling terrain cut by steep-sided coulees. Rimrocks, rough ridges and frequent outcrops occur where eroded shale layers expose the interbedded sandstone formations. Elevation in the county ranges from 2,680 feet above sea level on the Yellowstone River near Custer to 4,971 feet at Stratford Hill in the southwest corner.

Yellowstone County consists of approximately 1,693,751 acres. Eighty-two (82) percent of the county is under private ownership, while federal land managers (BLM, U. S. Bureau of Reclamation, and U.S. Fish & Wildlife Service) administer 5 percent of the land area. State agencies, including Montana DNRC (responsible for State Trust Land), and the Montana Dept. of Fish Wildlife and Parks (responsible for State Parks and fishing accesses), administer 4 percent of the acreage. The Crow Indian Reservation comprises 8 percent of the county. **Figure 2** present the landownership in Yellowstone County. Population density in Yellowstone County is 56.2 persons per square mile, as shown on **Figure 2A.**

3.2 Climate

Yellowstone County has a semiarid climate which is relatively mild with few significant weather events during an average year. Extremely low temperatures, less than 0 degrees Fahrenheit, may prevail in the winter for short periods of time. High wind events are possible in the spring and summer and may include rare tornadic activity. Heavy rainfall is rare, but localized thunderstorms

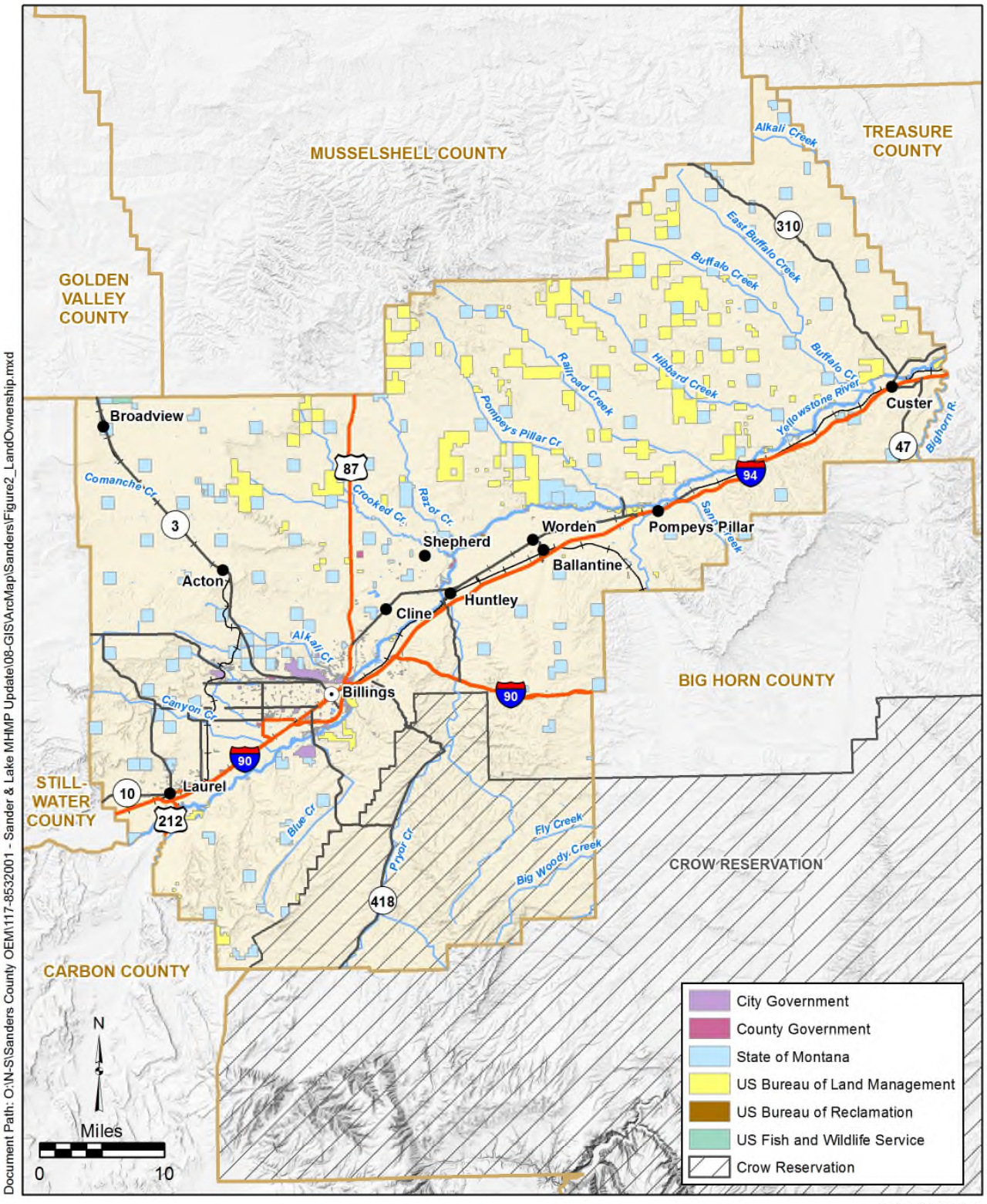
1



Date: 3/17/2019

Figure 1
Location Map
Yellowstone County, Montana
Multi-Hazard Mitigation Plan

1



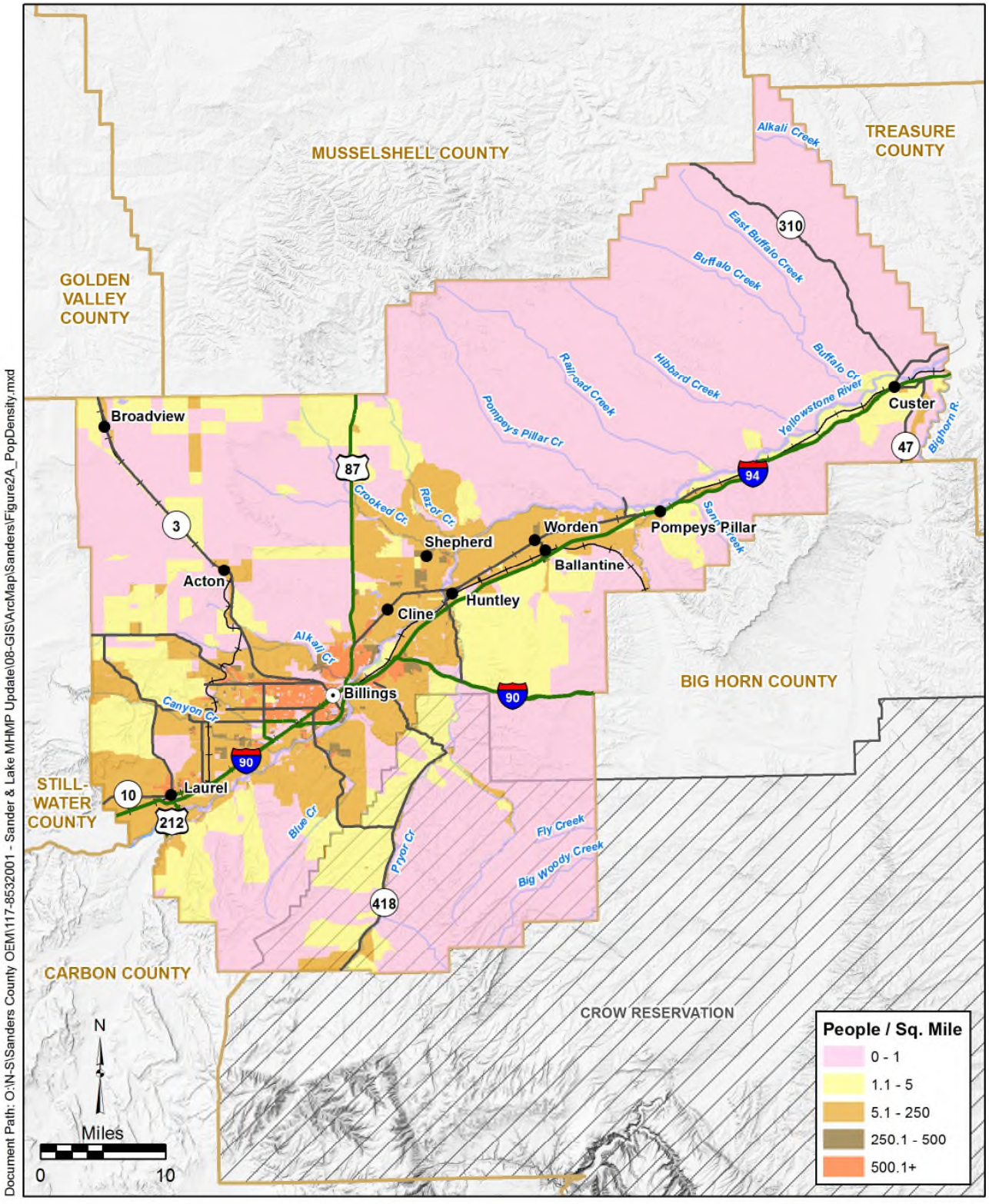
Date: 3/17/2019

Legend

County Seat
Place Name
Railroad
Primary Route
Secondary Route
River/Stream
Lake
County

Figure 2
Land Ownership
Yellowstone County, Montana
Multi-Hazard Mitigation Plan

1



Date: 3/17/2019

Legend

County Seat
Place Name
Railroad
Primary Route
Secondary Route
River/Stream
Lake
County
Crow Reservation

Figure 2A
Population Density
Yellowstone County, Montana
Multi-Hazard Mitigation Plan

can deposit significant rainfall in a small area resulting in flashfloods. Flooding is a problem on the Yellowstone River and tributaries particularly when warmer temperatures rapidly melt snow and ice during spring break up.

Yellowstone County's complex topography and lack of common slopes or drainage pattern result in a wide variety of local microclimates. In general, the Yellowstone River valley, where most of the population reside, has the greatest range of highs and lows. The areas outside of the river valley tend to have lower temperatures. Precipitation rates vary along a west to east gradient, dropping significantly from Laurel to Custer. Winter Chinooks originating in the mountains move northeastward through the county, moderating winter temperatures. Cold fronts from the north tend to affect the eastern highlands more than they do the rest of the county. Cultivated lands usually experience little variance in the growing season, which averages 129 days, normally extending from mid-May through mid-September.

The average annual rainfall is 15.09 inches, with an average of 57 inches of snow. Forty (40) percent of the precipitation falls in the wet spring months of April, May and June. The maximum monthly rainfall recorded was in May 1981, 7.7 inches, while the maximum 24-hour rainfall was recorded at 2.9 inches in June 8, 1997. The maximum monthly snowfall was 42.3 inches in April 1955, while the maximum in 24 hours was 23.7 inches, also in April 1955.

Winters are cold, but usually not severe. January's average maximum is 36 degrees and minimums average 18 degrees. Summers are warm with good sunshine and low humidifies, but the nights are generally cool. Extremes in temperature have ranged from 106° F in 1937 to -38°F in 1936. The average number of days per year with temperatures of 90° F or above is 28. The number of days with the temperatures 32°F and below is 48.

Average wind speeds are greatest during the winter months when they range from 10.5 mph to 12.5 mph. The most blustery month is December when wind speeds average 12.5 mph. Winds are slowest in July and August when speeds average 9.0 mph. The average prevailing wind is from the southwest. In June 1968, the extreme wind speed of 79 mph was recorded.

Climate statistics for the City of Billings are presented in **Table 3.2-1**.

Table 3.2-1. Yellowstone County Climate Statistics – Billings

Category	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average High (^{0}F)	36	40	49	58	67	77	87	86	73	59	45	35
Average low (^{0}F)	18	21	27	35	44	52	59	57	47	37	26	18
Avg. Precipitation (Inches)	0.47	0.47	1.06	1.65	2.17	2.13	1.34	0.75	1.3	1.18	0.63	0.51
Average Snowfall (Inches)	8	6	10	8	2	0	0	0	1	4	7	8

Source: https://www.usclimatedata.com/climate/billings/montana/united-states/usmt0031

For the purposes of this mitigation plan, weather is of interest when it threatens property or life and thus becomes a hazard. The NWS provides short-term forecasts of hazardous weather to the public and also records weather and climatic data. Further information on NWS weather warning criteria is presented in the individual hazard profiles in *Section 4.0*.

Climate Change

Climate change will affect the people, property, economy and ecosystems of Yellowstone County in a variety of ways. The most important effect for the development of this plan is that climate change will have a measurable impact on the occurrence and severity of natural hazards. In 2017, the Montana Climate Assessment was published (Whitlock, Cross, Maxwell, Silverman, and Wade, 2017) and explored how future projected climate change would affect agriculture, forestry and water resources to better plan for the future.

The Montana Climate Change Assessment evaluated two emission scenarios. The low-emissions scenario (LES) assumes that global emissions of the greenhouse gases that cause changes in climate conditions peak in the year 2040 and then decline. The high-emissions scenario (HES) assumes that global emissions of greenhouse gases remain largely unabated through the 21st century. Climate projections from FEMA and the National Oceanic and Atmospheric Administration (NOAA) were analyzed by county for the State of Montana MHMP (2018). A summary of these climate projections is presented below.

Under both emission scenarios, Montana is projected to continue to warm in all geographic locations and seasons, throughout the 21st century. By mid-century, Montana temperatures are projected to increase by approximately 4.5 to 6.0°F, while by the end of the century, temperatures are projected to increase 5.6 to 9.8°F. These state-level changes are larger than the average changes projected nationally and globally. Across the Montana, precipitation is projected to increase in winter, spring, and fall, and decrease in summer.

From 1950 to 2006, Yellowstone County observed 8 days above 95 degrees each year. According to both emission scenarios, Yellowstone County is projected to see 26 to 29 days above 95-degrees annually by mid-century. By the end of the century, the county is projected to see 32 more days above 95-degrees annually according to the LES, and 69 more days above 95-degrees, according to the HES.

Between 1950 and 2006, Yellowstone County observed an average 0.8 days with more than 1-inch of precipitation. By mid-century, the county is projected to see between 0.4 and 0.5 fewer days with 1-inch precipitation according to both emission scenarios. At the end of the century, the county is projected to see 0.8 fewer 1-inch precipitation days according to the LES, and 0.4 fewer 1-inch precipitation days according to the HES.

Climate change indicators provide useful information about what is occurring in complex systems. These indicators include temperature and growing season, rainfall intensity, snowpack, streamflow, stream temperature, wildland fire occurrence, plants live cycle events, and forest health. The hazard profiles in *Section 4* provide climate change implications as they relate to hazard mitigation.

3.3 Critical Facilities and Infrastructure

Critical facilities are of particular concern because they provide essential products and services that are necessary to preserve the welfare and quality of life and fulfill important public safety, emergency response, and/or disaster recovery functions. Critical facilities include: 911 emergency call centers, emergency operations centers, police and fire stations, public works facilities, sewer and water facilities, communication sites, hospitals and shelters. Critical facilities also include those facilities that are vital to the continued delivery of community services or have large vulnerable populations.

These facilities may include buildings such as the jail, law enforcement center, public services buildings, senior centers, community corrections center, the courthouse, and juvenile services building and other public facilities such as hospitals and schools. Critical facilities in Yellowstone County are identified in **Appendix B-2** and further discussed in *Section 4.*

A summary of the county's infrastructure from the Yellowstone County-City of Billings Growth Policy (2008), the City of Billings Growth Policy (2016), the City of Laurel Growth Management Plan (2013) is presented below.

3.3.1 Water and Wastewater Services

Water supply has been critical in determining how and where development has occurred; therefore, it is not surprising that the major development in Yellowstone County has been along the primary water source, the Yellowstone River. Development in other parts of the county has been constrained in part by the availability of water. The only other major source of water in the county is from groundwater. Along the Yellowstone Valley, groundwater is relatively plentiful and close to the surface. Outside of the valley, the ground water sources are much deeper, if ground water is available at all. The groundwater that is available may be unusable due to mineralization.

Billings

The Billings Water Treatment Plant is located on the Yellowstone River at 2251 Belknap Avenue. The river is the City's sole raw water source for the water system. The water treatment plant has two surface water intake structures to supply water treatment and pumping rated at 60 million gallons per day (MGD). The water distribution system includes 11 pressure zones with 17 reservoirs, 12 pump stations, and over 450 miles of water mains. The city is planning to create an alternate water supply with off stream storage and water treatment over the next several years.

The Billings Water Reclamation Facility is located on the Yellowstone River, about 0.25 miles downstream from the U.S. 87 E. Highway bridge. The treatment capacity of 30 MGD, a maximum flow of 60 MGD with secondary treatment. Treated wastewater is discharged to the Yellowstone River. Dewatered sludge from the treatment process is hauled to the City's municipal landfill. The collection system has nine sewer lift stations and over 470 miles of sewer mains ranging from 8- to 60-inch in diameter.

Laurel

The Laurel Water Treatment Plant, located at 802 Highway 212 South, treats water by conventional methods in the operation of a multimedia filtration plant. The plant provides domestic water service to the residents of Laurel and a few customers outside the city, including the CHS refinery. The plant has a treatment capacity of 5 MGD.

The Laurel water treatment plant is located south of town on the Yellowstone River. The River has two main channels at this location and the Laurel plant and intake are on the north channel. During low flow periods, the city has had trouble with drawing adequate water from the channel. In August 2001, the City of Laurel was permitted to construct a diversion dam on the south channel so that the water intake for the city would remain covered. This is a temporary solution and the city expects to spend up to $1 million constructing a new river water intake in mid-stream or to make permanent

river diversions so that the present intake is more effective. Currently, there is one storage tank, built in 1967 with a capacity of 4 million gallons (MG) with 2 MG usable and the other 2 MG creating pressure for distribution. Additionally, the city has two booster pump stations.

Laurel's wastewater treatment plant is located 0.75 mile east of the MT Hwy 210 Yellowstone River bridge and upstream from the Clark Fork confluence. The average daily treatment capacity is 0.8 MGD with a peak treatment capacity of 4.75 MGD. The system serves the City's commercial and residential customers, including the CHS petroleum refinery and a small housing area outside of the City near the Montana Rail Link complex.

Broadview

The Town of Broadview produces its drinking water from two wells. It is treated with chlorine for disinfection and stored in an elevated tank. The system serves approximately 60 residences and businesses. The present water supply is inadequate for fire suppression and yard watering, resulting in high home insurance rates and low property values.

Lockwood

The Lockwood community has been served with domestic water by the Lockwood Water Users Association, established in 1955, using multiple wells as its water source. In 1987, the Lockwood Water Treatment Plant was constructed to serve the community with a surface water treatment plant that uses the Yellowstone River as its source of supply. The treatment plant is located on the north bank of the river near the ExxonMobil Refinery. Water is stored and pressurized for the system in three storage tanks having a combined capacity of 2.25 million gallons. The nominal capacity of the water treatment plant is 3 MGD. Sewage treatment services for the community of Lockwood are currently contracted with the City of Billings.

Other Areas of Yellowstone County

Groundwater wells are the primary source of domestic water for residents outside of Billings, Laurel and the water districts. Groundwater is readily available in the Yellowstone River Valley and is usually good quality. Outside of the valley, water is less available, and the quality may be compromised by minerals or high concentrations of dissolved solids. Wells of 1,000 to 1,500 feet deep are common outside of the valley.

Ballantine-Worden and Custer have sewer systems that treat waste in collection lagoons. There are no permitted discharges to a water course. County residents in areas not served by municipal or district systems rely on concrete septic tanks and drainfields.

3.3.2 Utilities

Montana-Dakota Utilities Company (MDU) is the only natural gas provider in Yellowstone County. MDU provides natural gas and electric services in eastern Montana and in four other states, but only gas in Yellowstone County. Natural gas is delivered from the Williston Basin in eastern Montana and western North Dakota through a 4,300-mile integrated pipeline system.

NorthWestern Energy is a major, regional provider of electricity to approximately 650,000 customers in Montana, Nebraska and South Dakota. Their current energy-delivery system includes

more than 26,000 miles of electrical lines. In Yellowstone County, NorthWestern Energy provides electricity to the incorporated areas of Billings, Laurel, and Broadview. Some service is extended into the urban fringe of Laurel and Billings, but outside that area Yellowstone Valley Electric Cooperative (YVEC) provides electricity.

YVEC serves six counties, but 92 percent of its meters are in Yellowstone County. They primarily serve unincorporated areas of the county and have a total of 19 distribution substations, two transmission substations and over 2,300 miles of line serving over 14,500 meters. YVEC receives approximately 85 percent of its power from NorthWestern Energy and the balance comes from the Bureau of Reclamation's hydroelectric facility at Fort Smith, Montana.

3.3.3 Transportation

Billings is the largest city in the state and the largest transportation hub in central and eastern Montana. Key roadway linkages between Billings and other urban areas include Interstate-90 and I-94, U.S. Highway-87/MT-3, -212 and -310, and numerous state highways and secondaries. Yellowstone County maintains approximately 1,500 miles of public and county roads. There are approximately 240 bridges in Yellowstone County and thousands of culverts.

There are few roadways within the City of Billings that cross the Yellowstone River or climb up the rimrocks to provide north-south connections. North 27th Street and Zimmerman Trail are two of only three direct connections between I-90 and MT-3. Zimmerman Trail traverses residential areas and presents significant topographic constraints. The 27th Street corridor routes traffic through the heart of downtown Billings. A third connection for north-south travel between I-90 and MT-3 is provided via US-87 (Main Street and Airport Road).

The two railroad operators in Billings are Burlington Northern-Santa Fe Railroad and Montana Rail Link. Both move large volumes of coal and freight through the area and serve the downtown Billings intermodal facility. Freight originating in the region includes coal and coal products, petroleum, farm products, lumber and wood products, and stone, clay, glass and concrete products. Ninety percent of these commodities were shipped out of state. The City of Laurel has the largest railroad yard between Minneapolis and Seattle.

The Billings Logan International Airport is located on the plateau above downtown Billings. It is a 2,300-acre facility that has three runways, two instrument landing systems, two fixed base operators, a number of other aviation related businesses, and tow areas providing space for general aviation hangars. The airport is served by seven passenger airlines as well as approximately 12 cargo and mail carriers, including UPS and FedEx, landing over 50 million pounds of cargo annually. Billings Logan International Airport is a growing regional air traffic hub with a market area encompassing central and eastern Montana and northern Wyoming.

The City of Billings operates a public transit system called MET Transit which operates with 17 routes and has two primary transfer centers.

3.3.4 Fire and Emergency Services

Fire protection in Yellowstone County (outside the incorporated cities of Billings, Laurel and Broadview) is essentially divided into two parts; structural protection and wildland protection. The structural protection for homes, farmsteads, commercial buildings and all other improvements is provided by a legally created fire district or fire service area per Montana Law. Once a fire district or fire service area is created, the trustees of the district/area provide for the fire protection themselves or by contracting with an existing volunteer fire department within the district/area.

The other part of fire protection in Yellowstone County is the rural wildland fire protection. By Montana Law, the county is responsible for suppressing fires to protect range, farm and forest lands. Yellowstone County provides this protection by having a rural fire levy from the county general fund and using the funds to contract with the volunteer fire departments throughout Yellowstone County. The county is divided into geographic areas showing the fire districts, fire service areas and the wildland fire protection areas. In many instances the wildland fire protection area boundaries are the same as the fire district or fire service area boundaries. The minimum level of protection is wildland fire protection, and Yellowstone County is protected by the following rural volunteer fire departments (VFD): Blue Creek VFD, Broadview VFD, Custer VFD, Fuego VFD, Haley Bench VFD, Lockwood VFD, Meadowlark VFD, Molt VFD, Shepherd VFD #1 & #2, Waco VFD, and Worden VFD #1, #2, and #3.

There are seven fire stations in the City of Billings. Fire Station #1 houses Central Headquarters for the fire department and is located at 2305 8th Avenue North. Fire Station #2 (Maverick) is located at 501 S. 28th St., Fire Station #3 (Parkhill) is located at 1928-17th St. W. Fire Station #4 (Terry) is located 475-6th St. W. Fire Station #5 is located at 605 S. 24th St. W. Fire Station #6 (Heights) is located at 1601 St. Andrews Drive. Fire Station #7 is located at 1501-54th St. W. Fire departments are also located at the Billings-Logan International Airport, Phillips 66 and ExxonMobil refineries.

The Laurel Volunteer Fire Department serves the City of Laurel and surrounding fire districts. The fire districts include Districts 5, 7 and 8, the Laurel Urban Fire Service Area, Laurel Airport Authority, Yellowstone Boys and Girls Ranch and CHS Refinery offices and buildings. Additionally, the department has mutual aid agreements with the surrounding fire departments in Park City, City of Billings and CHS Refinery. There is also a signed mutual aid contract with all the participating fire departments of the Yellowstone County Rural Fire Council.

Disaster and Emergency Services

Yellowstone County emergency management comes under the office of Disaster and Emergency Services. Yellowstone County DES prepares and manages plans and programs directed at disaster preparedness and coordination of response and recovery. They maintain and deliver information to the public in coordination with fire protection agencies, law enforcement, and other emergency response providers.

Yellowstone County DES provides the following services: plans, organizes, and manages the county Emergency Preparedness Program; evaluates, improves, and promotes comprehensive disaster planning efforts; organizes and facilitates effective operations of multi-jurisdiction, multi-discipline work groups and task forces; promotes interagency coordination; and, develops and reviews polices, contracts, and interagency agreements. These efforts are designed to enhance the capacity of the

local government to plan for, respond to, and mitigate the consequences of threats and disasters using an all-hazards framework.

3.4 Population Trends

Yellowstone County is the most populous county in Montana with 158,980 individuals according to 2017 U.S. Census estimates. The county has enjoyed steady growth for the past several decades. Since the 2010 census, the population of Yellowstone County has increased by 11,008 or 7.44 percent. **Table 3.4-1** illustrates the change in population in Yellowstone County compared to the State of Montana and United States.

Table 3.4-1. County, State and National Population Trends

Year	Yellowstone Co. Population	% change from previous census	State of Montana Population	% change from previous census	United States Population	% change from previous census
2017 est.	158,980	7.44%	1,050,493	6.17%	325,719,178	5.50%
2010	147,972	14.39%	989,415	9.67%	308,745,538	9.71%
2000	129,352	14.05%	902,190	12.91%	281,424,602	13.15%
1990	113,419	4.98%	799,065	1.57%	248,709,873	9.79%
1980	108,035	23.66%	786,690	13.29%	226,542,199	11.43%
1970	87,367	10.57%	694,409	2.91%	203,302,031	13.37%

Source: U.S. Census Bureau, 2018

Table 3.4-2 presents population statistics for the incorporated communities and the Census Designated Places (CDP) within Yellowstone County. Billings is the largest city in Montana with a population of 109,642 according to 2017 U.S. Census estimates. Growth within Billings has steadily increased since the 1950s.

Table 3.4-2. Yellowstone County Community Population Trends

Incorporated Community /CDP	1980	% Change Since Last Census	1990	% Change Since Last Census	2000	% Change Since Last Census	2010	% Change Since Last Census	2016/7 Est.	% Change Since Last Census
Ballantine CDP	--	--	156	--	346	121.79%	320	-7.51%	183	-39.60%
Billings, City	66,842	8.54%	81,125	21.37%	89,847	10.75%	104,170	15.94%	109,642	6.09%
Broadview, Town	120	-2.44%	133	10.83%	150	12.78%	192	28.00%	190	-1.33%
Custer CDP	--	--	228	--	145	-36.40%	159	9.66%	132	-18.62%
Huntley CDP	--	--	--	--	411	--	446	8.52%	478	7.79%
Laurel, City	5,498	23.44%	5,686	3.42%	6,255	10.01%	6,718	7.40%	6,791	1.17%
Lockwood CDP	--	--	3,967	--	4,306	8.55%	6,797	57.85%	7,670	20.27%
Shepherd CDP	--	--	--	--	193	--	516	167.36%	565	25.39%
Worden CDP	--	--	--	--	506	--	577	14.03%	789	41.90%

Notes: CDP = Census Designated Place; -- = data not available; U.S. Census 2017 Estimates for Billings and Laurel, others are 2016. Source: U.S. Census Bureau, 2018.

Three age groups have seen dramatic increases in population in Yellowstone County over the past decade. The number of people aged 75 years and older has increased over 45 percent, reflecting the national trend of an aging population. An aging population will have numerous ramifications for the level and type of public services needed. Service needs may include an increase in healthcare providers, different housing options, and special transit facilities.

Yellowstone County has also experienced an increase in the population that constitutes a large part of the work force particularly the baby boom generation aged 45 to 54 years. This population increased almost 58 percent over the past decade. The other increase in labor force population is

the 20 to 24 years age bracket indicating an echo effect of the baby boomers. This population increased 28 percent. The only decrease of an age group occurred in the population aged 25 to 34 years. This age group declined by 15 percent. This trend indicates a potential loss of an important work force component without significant immigration.

3.5 Housing Stock

The U.S. Census estimates that in 2016, Yellowstone County had 66,708 housing units. The median value of the occupied housing units was $201,500. A further breakdown of the housing units from the census is presented in **Table 3.5-1.**

Table 3.5-1. U.S. Census Housing Data – 2016 Estimates; Yellowstone County

Category	Yellowstone County	Billings (City)	Laurel (City)	Broadview (Town)
Total Number of Housing Units	66,708	47,645	2,961	74
Median Value Housing Units	$201,500	$198,300	$161,000	$125,000
Year Structure Built				
2014 or later	388	195	18	0
2010 to 2013	2,159	1,565	14	0
2000 to 2009	9,542	6,197	221	16
1990 to 1999	8,463	5,668	245	10
1980 to 1989	8,161	5,554	432	12
1970 to 1979	14,210	9,352	780	5
1960 to 1969	6,234	4,927	328	1
1950 to 1959	8,114	7,052	301	0
1940 to 1949	3,645	3,220	141	2
1939 or earlier	5,792	3,915	481	28

Source: U.S. Census, 2018 (American Community Survey 2012 – 2016). Notes: "-"= data not available.

According to the City of Billings Growth Policy, the number of housing units increased significantly since 2016. The City Building Division issued permits for almost 3,000 new units, including 2,006 single family units and 258 duplex units. Building permits were also issued for 465 multi-family structures containing at least 3 units apiece but many of them were 4 to 10-unit structures. The greater Billings area housing market continued to be strong in 2016 but was showing signs of adjustment.

3.6 Economy

Yellowstone County is the most populous county in Montana with 158,980 residents (2017 estimate). Billings is the county seat and the state's largest city. Billings is a regional metropolitan center serving eastern Montana and parts of North Dakota, South Dakota and Wyoming, and approximately 500,000 people. One dollar out of seven dollars spent on retail purchases in Montana is being spent in Billings.

Resource industries and agriculture dominate the local economy. There are three oil refineries in the county, with ConocoPhillips in Billings, ExxonMobil in Lockwood and the CHS Refinery in Laurel. A Western Sugar Cooperative refinery is located in Billings. About 350 Montana farmers supply sugar beets to the refinery, which has a direct impact of $50 million per year on the county's economy. Billings is the medical and educational center for the region and the largest employer

making up 22 percent of the total employment. The two hospitals employ over 3,400 people and have almost 560 beds. Several clinics also operate in Billings.

Secondary effects from regional energy development have not been as strong in recent years. Activity in the Bakken Oil Field in North Dakota and Montana has slowed considerably due to a significant decrease in oil prices. The regional coal industry has also been negatively affected recently. Montana coal production is down by one third from 2015 and Arch Coal has declared bankruptcy and laid off workers. **Table 3.6.1** presents economic indicators for Yellowstone County, the cities of Billings and Laurel, and the town of Broadview in 2016.

Table 3.6-1. Yellowstone County 2016 Economic Indicators

Indicator	State of Montana	Yellowstone County	Billings (City)	Laurel (City)	Broadview (Town)
Per capita income (2012-2016)	$27,309	$30,519	$29,920	$24,512	$19,243
Median household income (2012-2016)	$48,380	$55,032	$52,944	$49,839	$46,737
Persons living below poverty level	13.3%	8.8%	11.6%	7.7%	3%

Source: U.S. Census, 2018 (American Community Survey 2012 – 2016).

Per capita personal income in Yellowstone County is $30,519 compared to $27,309 for the State of Montana, while in Laurel and Broadview per capita income is below the State average. The U.S. Census Bureau estimates that 8.8 percent of the county population is living below the poverty level compared to 13.3 percent for the State of Montana.

3.7 Land Use and Future Development

Yellowstone County land use has been dominated by agriculture and related uses. An estimated 1,568,637 acres or 90 percent of the total county land base is used for cropland and grazing. Most of the agricultural land (75 percent) is used for livestock grazing while 25 percent is cultivated for crops. Much of the early business in Billings developed to service the surrounding ranches and farms.

Today, agriculture is still a dominant land use, but residential development and commercial uses have gained considerable ground. Over the last decade, development of land has been steady, keeping pace with the population increase. The primary residential and commercial centers are located in Billings, Laurel, and Lockwood and to a lesser extent, the communities of Custer, Shepherd, Huntley, Worden, Ballantine, Pompey's Pillar and Broadview. Industrial uses are mostly confined to Billings, Laurel and Lockwood.

The City of Billings is the largest city in Montana and is currently at 43 square miles. Its size has nearly tripled since 1970 when the gross area totaled 14.7 square miles. Roughly one-third of the city is zoned for commercial use, 12 percent for industrial use, and the remainder as residential. As property is annexed, it is zoned according to the city zoning designation closest to what it was zoned in the county. Most of annexations have been residential. The city's Annexation Policy has done much to manage the expansion of the city since its adoption in 2004.

3.7.1 Land Use Implementation Tools

Industrial, commercial and residential land use is managed with zoning and subdivision regulations in accordance with guidelines set forth in the county and city/town growth policies. These

documents recognize natural hazards require regulations to ensure safe growth. Building codes also play an important role to ensure structures are built to minimum safety standards.

Growth Policies

Yellowstone County and City of Billings adopted a Growth Policy in 2008 which provides for the orderly development of the county and city. The City of Billings adopted their most recent growth policy in 2016, as did the community of Lockwood. The City Laurel adopted a growth policy in 2013. The Town of Broadview does not have a growth policy.

The **Yellowstone County and City of Billings Growth Policy Update** (2008) Natural Resources Element details several issues and policies specific to hazard mitigation, as follows:

ISSUE I: The quality of the Yellowstone River and the associated riparian habitat is threatened.

POLICY I: Strive to protect the Yellowstone River so that wildlife, wildlife habitat, water quality and quantity, recreational activities and aesthetic values will be preserved.

- Monitor the amount of development activity in and adjacent to the Yellowstone River to detect negative trends. Consider adjusting zoning and floodplain regulations to minimize or eliminate development pressure on the natural system.
- Complete floodplain mapping on the Yellowstone, Clarks Fork and Big Horn Rivers.

ISSUE II: Water is an important resource and it is becoming scarcer.

POLICY II: Protect groundwater quality and conserve existing water supplies.

- Implement Phase II Stormwater Regulations in the City of Billings and Yellowstone County.
- Identify areas of groundwater recharge and shallow groundwater, including wetland mapping, and ensure protective land use controls are followed.
- Encourage native, drought resistant landscape where possible.
- Explore options for storm water management that recharge ground water rather than discharge into storm sewers.

ISSUE III: Due in part to the arid nature of our environment and the remoteness of some developments, there is an increased risk to human life and property from wildfires.

POLICY III: Reduce the risk of wildfire and limit the amount of property damage resulting from wildfires.

- Encourage in-fill development to eliminate sprawl by providing development incentives.
- Increase fire prevention education, including training on creating defensible space around structures.

ISSUE VI: Certain development is damaging our natural resources.

POLICY VI: Preserve environmentally sensitive areas.

- Using floodplain mapping information, river meander analyses, and examples from other communities, consider developing local subdivision, zoning or site development regulations

to limit commercial and industrial land uses along the Yellowstone River and establish species and/ or ecosystem-based requirements for river setbacks for uses and structures.

- Expand on the Bureau of Mines and Geology's mapping of geologic hazards in the Billings vicinity, to further study of landslide and rock fall potential in the greater County area.
- Map flood prone areas in Yellowstone County in accordance with the FEMA program, and state and local standards.

Goals and objectives from the **City of Laurel Growth Policy** that are relevant to hazard mitigation are summarized below:

NATURAL RESOURCES GOAL - Adopt regulations that protect sensitive areas including, but not limited to, steep slopes, floodplains, and stream corridors.

- Review and update existing zoning and subdivision regulations as necessary to ensure the goals of environmental preservation are being achieved.
- Manage floodplains, rivers, groundwater and other water resources for multiple uses, including flood and erosion hazard reduction, fish and wildlife habitat, open space, recreation and water supply.
- Participate in regional, broad-based watershed studies to achieve effective and long-term flood protection.

UTILITIES GOAL - Maintain an efficient, adequate and safe drinking water system that meets the long-term needs of the community residents, industries and visitors.

- Develop conservation measures for periods of drought.
- Identify mitigation measures to ensure periods of drought and low- flow do not affect the city's water supply.

STORMWATER GOAL - Manage storm water runoff to protect residents, property and water resources.

- Limit encroachments in watercourses, floodplains and wetlands.
- Develop programs to correct or mitigate existing development that is subject to periodic flooding or storm water damage.
- Plan public spaces to use floodplains, water courses, natural water basins and wetlands for greenways and passive recreation uses, thereby protecting them.
- Develop and implement a flood mitigation plan.

Zoning Regulations

Zoning is a tool used by local government to control and direct land use in communities, in order to protect the public health, safety and welfare. Details from these regulations, as appropriate, are presented in the hazard profiles in *Section 4*.

The Billings-Yellowstone County Unified Zoning Regulations govern zoning in the city and county. Most of the county is not zoned. Billings, Laurel, and Broadview all maintain their own zoning within their corporate boundaries. Laurel has extraterritorial zoning jurisdiction that extends approximately one mile outside of the city limits. Yellowstone County has a zoning jurisdiction that extends out from the Billings city limits approximately 4.5 miles. The majority of the zoned property

within Yellowstone County is located in and around the Billings and Laurel urban areas. Additionally, there are a number of citizen-initiated zoning districts located throughout the county.

The county zoning jurisdiction encompasses 146 square miles and is divided into 23 zoning districts. Seventy-five percent of the land in the county's zoning jurisdiction is zoned Agricultural-Open Space, which permits 1 dwelling unit per 10 acres. Two other zoning designations that are exclusive to the county's zoning jurisdiction are Agricultural-Suburban, which encompasses only 2 percent of the area, and Residential 15,000, which makes up 8 percent of the area.

Most of Lockwood between the river and Interstate-90 is zoned Heavy Industrial and Controlled Industrial and comprises slightly more than half of the land area (52 percent). Approximately 3 percent of Lockwood is zoned for commercial uses, and the remaining 45 percent of land is zoned for residential uses.

The City of Laurel zoning jurisdiction extends approximately one mile outside the city limits.

The Town of Broadview's zoning regulations are administered by the Zoning Commission, and final zoning decisions are made by the Town Council. The townsite measures roughly 130 acres and is divided into two zoning districts: residential and commercial. The commercial district comprises roughly one-third of the townsite and the remainder is zoned residential.

Subdivision Regulations

The Cities of Billings and Laurel, and Yellowstone County have separately adopted subdivision regulations, but they function similarly. The city regulations apply to subdivisions proposed within the city limits. All other subdivisions outside of the Billings and Laurel city limits and Crow Indian Reservation are regulated by the county regulations. Both the city and county regulations specify the subdivision procedure for major and minor subdivisions, stipulate required improvements, and provide development standards for commercial and residential subdivisions. The subdivision regulations closely follow what is required and authorized by state law with few exceptions. In general, they are not more stringent than state law.

The subdivision review must consider all potential hazards to residents of the subdivision from high voltage lines, high-pressure gas lines, highways, railroads or railroad crossing and nearby industrial or mining activity. In addition, any creation of public health or safety hazards by the subdivision, such as traffic or fire conditions, contamination or depletion of groundwater supplies, accelerated stormwater runoff, widening or existing floodplain or flood hazard area, or existence within the wildland urban interface, must be considered in subdivision review. If the Yellowstone County Board of Planning after review, finds any portion of a parcel of land proposed to be subdivided unsuitable for subdivision because of potential hazards such as flooding, landslides, steep slopes, rock falls, high water table, polluted or non-potable water supply, danger from fire or explosion or other features which may be detrimental to the health, safety, or general welfare of existing or future residents, they will not recommend approval of the subdivision unless the hazards can be eliminated or overcome through approved design and construction.

Design standards can significantly affect the appearance and functionality of a development. For these reasons, they are often employed to address a variety of issues including land use, aesthetics, transportation, and public service. The city and county subdivision regulations include requirements

for adequate water supply for fire-fighting purposes, and at least two points of access for all new major and subsequent minor subdivisions to address the threat of wildfire. Further details from these regulations are presented in the hazard profiles in *Section 4*.

Building Codes

Building codes are also a tool to control future development. The main purpose of building codes are to protect public health, safety and general welfare as they relate to the construction and occupancy of buildings and structures. They comprise a set of rules that specify the minimum acceptable level of safety for buildings and often contain requirements for roof construction associated with snow and wind loads. Building codes are generally intended to be applied by architects and engineers, but are also used by building inspectors. Yellowstone County does not have a building department and as such, does not enforce building codes. The State of Montana does building inspections in Yellowstone County for commercial construction and residential four-plex units or larger. The cities of Billings and Laurel have certified programs and enforce building codes.

Floodplain Regulations

The purpose of floodplain regulations is to protect the watercourses and their flood storage areas, as well as the public health, safety, and welfare. Montana state law requires local governments to adopt and enforce floodplain management regulations. It is in the public interest to manage regulation of flood prone lands and waters in a manner consistent with sound land and water use management practices which will prevent and alleviate flooding threats to life and health and reduce private and public economic losses.

Yellowstone County and the cities of Billings and Laurel participate in the National Flood Insurance Program (NFIP) which requires jurisdictions to adopt floodplain development regulations. In return for the local adoption and enforcement of floodplain management regulations that meet the minimum criteria of the NFIP, FEMA provides the availability of flood insurance coverage within Yellowstone County and the cities of Billings and Laurel. The Floodplain Regulations prescribe minimum standards for development within the regulated flood hazard areas and have a high degree of impact on land use decisions. The Town of Broadview does not participate in the NFIP.

The floodplain regulations prohibit certain uses within designated floodplains and place conditions on other uses. Most commercial and residential development is generally prohibited in the floodway and flood fringe unless suitably flood-proofed. Yellowstone County averages 10 floodplain permits per year.

3.7.2 Future Development

Based on population trends and projections, Yellowstone County is expected to grow annually by 1.5 percent. This rate would suggest an additional 2,200 people or 890 new dwelling units annually, 640 or 72 percent of which will likely be located in the City of Billings. According to estimated census data, steady growth will require additional residential development in order to keep pace with housing needs.

Where the residential development would occur is controlled by several factors, including, but not limited to, zoning, availability of services and access, site conditions and market factors. The City of

Billings adopted an Annexation Policy in 2004 which establishes review criteria to help guide annexation decisions. The purpose of the policy is to promote orderly growth of the community at urban densities (greater than 4 units per acre) with urban services/facilities, and, control the type, quality and location of development in areas that are outside the city, but which are likely to develop at urban densities. Since that time, the Annexation Policy has been amended and refined, and a "Limits of Annexation Map" was added to when areas surrounding the existing city limits might expect support for annexation. The map shows areas immediately able to be provided city services, those out five years, and those whose future annexation is uncertain. The map considers proximity of proposed annexation to existing city limits, availability of city services, current land use, planned capital improvements, and proximity to the Yellowstone River.

The City of Laurel has prime proximity to I-90 providing optimum conditions for growth. Within the city limits, Highway 10 and the SE 4th Street corridors provide opportunity for business growth with some vacant industrial and commercial zoned tracts. The potential for large industrial sites remains small due to infrastructure concerns and the inability for the city to provide water without investing in substantial upgrades. Where the city's greatest potential lies is in the redevelopment of vacant commercial buildings located in the downtown area, as well as along First Avenue south of the underpass.

The growth potential of the Town of Broadview was analyzed and found to be constrained by the development of a better water supply and the construction of a railroad spur from the Bull Mountain Mine to the railroad main line southeast of town. Without a better, more reliable water supply, additional growth is not likely. The Montana Bureau of Mines and the Montana DNRC have collaborated with the town to define and evaluate favorable sites for development of additional viable groundwater sources.

Section 4.10 presents a hazard analysis of the proposed future development projects in Yellowstone County.

SECTION 4. RISK ASSESSMENT AND VULNERABILITY ANALYSIS

Yellowstone County is exposed to many hazards both natural and man-made. A risk assessment and vulnerability analysis was completed to help identify where mitigation measures could reduce loss of life or damage to property in the County, Cities of Billings and Laurel, and Town of Broadview.

This section includes a description of the risk assessment methodology and hazard profiles for eight hazards organized from high to low by county priority: severe weather and drought, wildfire, ditch and drain failure, terrorism/violence/civil unrest/cyber security, hazardous material incidents/ transportation accidents, flooding and dam failure, communicable disease, and landslide and rock fall hazards. The section is concluded with a risk assessment summary and discussion on the location of future development projects with respect to a composite of the hazard impact areas. Supporting documentation is presented in **Appendix B**.

4.1 Risk Assessment Methodology

A risk assessment was conducted to address requirements of the DMA 2000 for evaluating the risk to Yellowstone County from natural and man-made hazards. DMA 2000 requires measuring potential losses to critical facilities and property resulting from natural hazards by assessing the vulnerability of these facilities to natural hazards. In addition to the requirements of DMA 2000, the risk assessment approach taken in this study evaluated risks to vulnerable populations and also examined the risk presented by several man-made hazards. The goal of the risk assessment process is to determine which hazards present the greatest risk and what areas are the most vulnerable to hazards.

The risk assessment approach used for this plan entailed using GIS software and data to develop vulnerability models for people, structures and critical facilities, and evaluating those vulnerabilities in relation to mapped hazard locations. This type of approach to risk assessment is dependent on the detail and accuracy of the data used during the analysis. Additionally, some types of hazards are extremely difficult to model. Data limitations are described in *Section 4.1.7*.

4.1.1 Critical Facilities and Building Stock

Critical facilities and infrastructure, including bridges, water/wastewater facilities, and communication sites were included in the MHMP analysis. Mapping of these facilities, provided by Yellowstone County, allowed for the comparison of their location to the hazard impact areas where spatially recognized. Critical facility and infrastructure values were obtained, where readily available, from municipal departments and insurance companies. Replacement values for privately-owned critical facilities was obtained from the Montana Department of Revenue's (MDOR) Cadastral Mapping Program. Some values were estimated based on values of similar facilities. Construction type of critical facilities (e.g. steel, wood, masonry, etc.) has not been compiled and was therefore, not considered in the analysis. This data should be collected for future updates of this plan.

Figures 3 through 3D present the location of critical facilities in Yellowstone County, Billings, Laurel, and Broadview. Critical facility identification with photographs are presented in **Appendix B-2**.

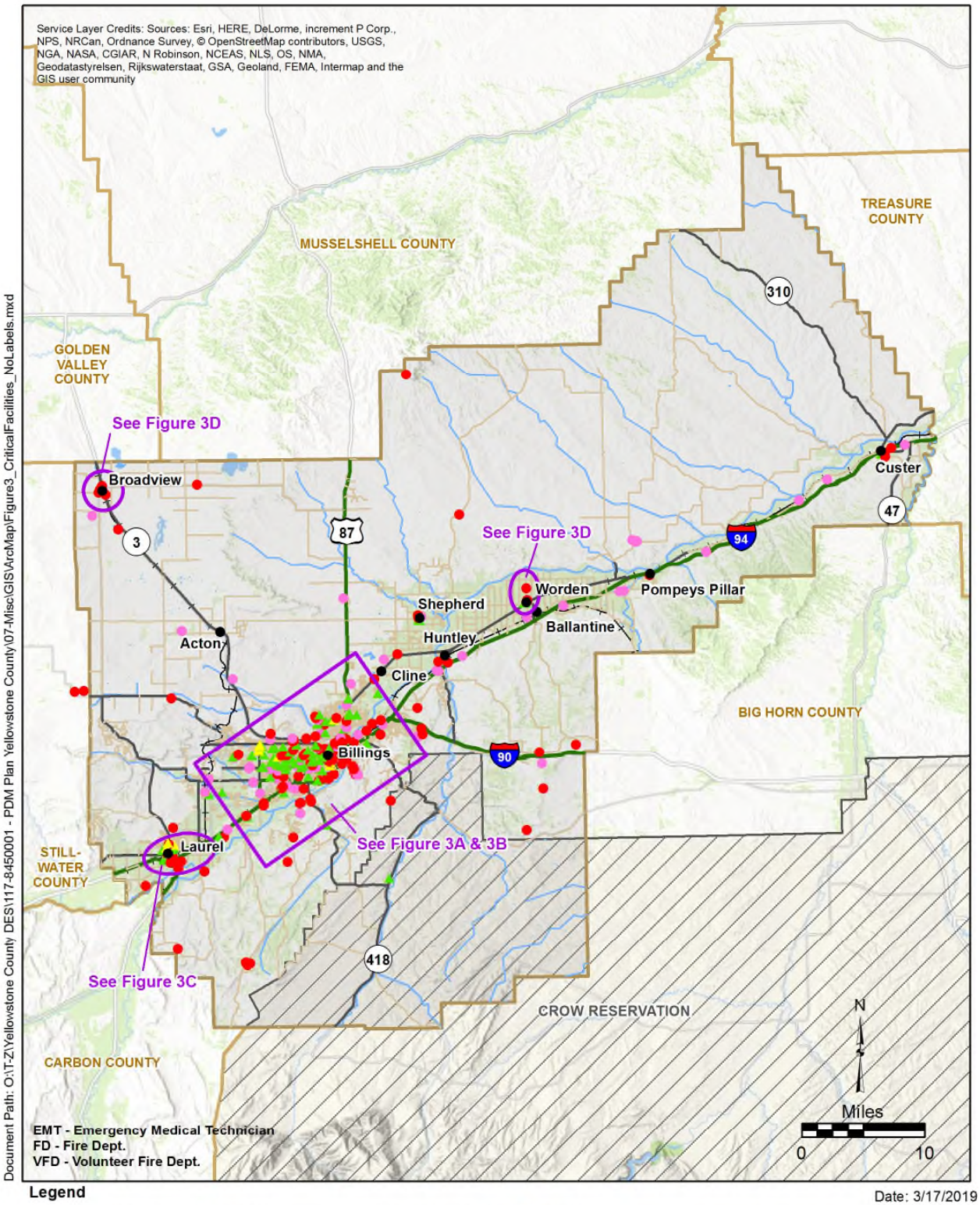


Figure 3
Critical Facilities
Yellowstone County, Montana
Multi-Hazard Mitigation Plan

1

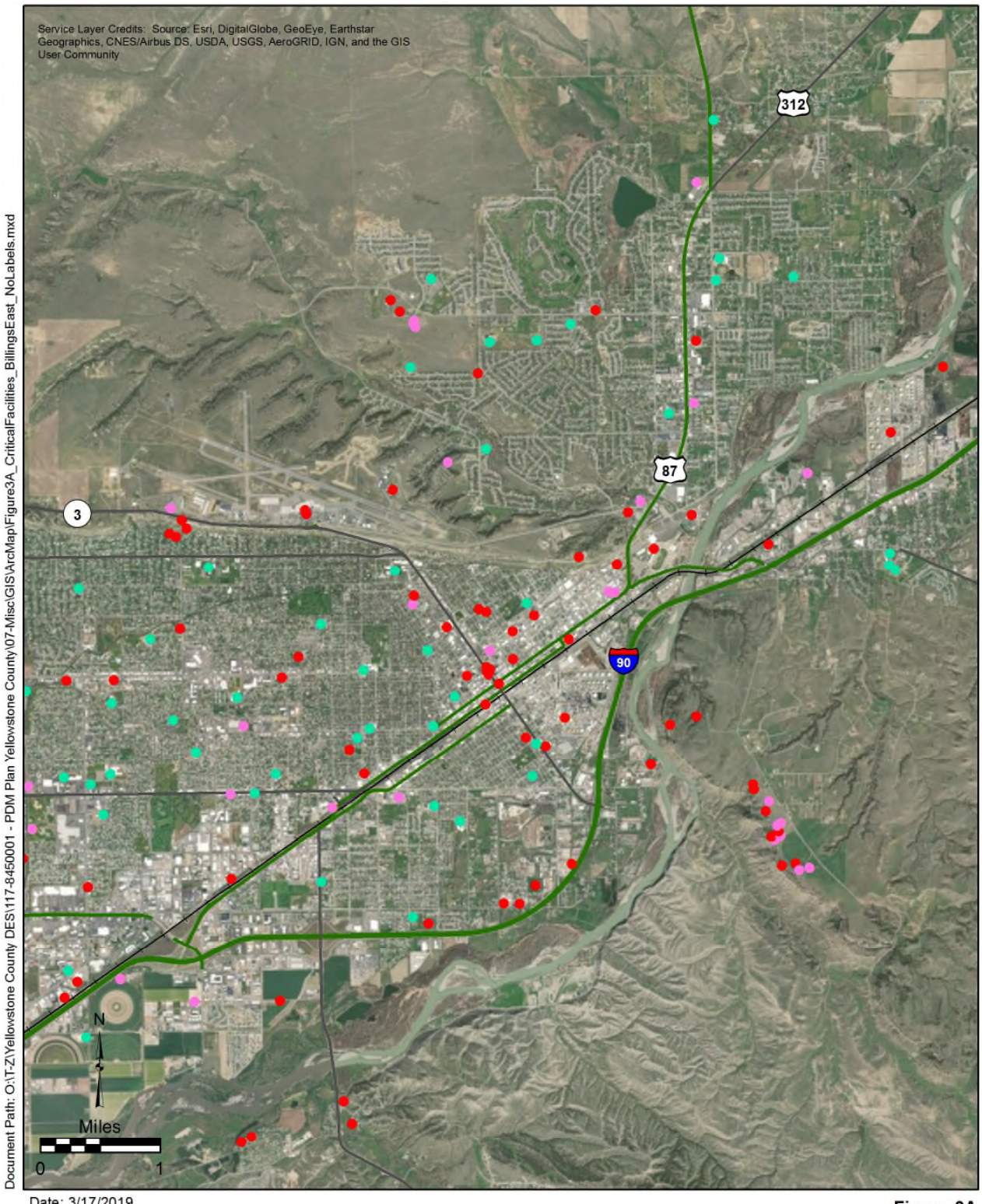


Figure 3A
Critical Facilities - Billings East
Yellowstone County, Montana
Multi-Hazard Mitigation Plan

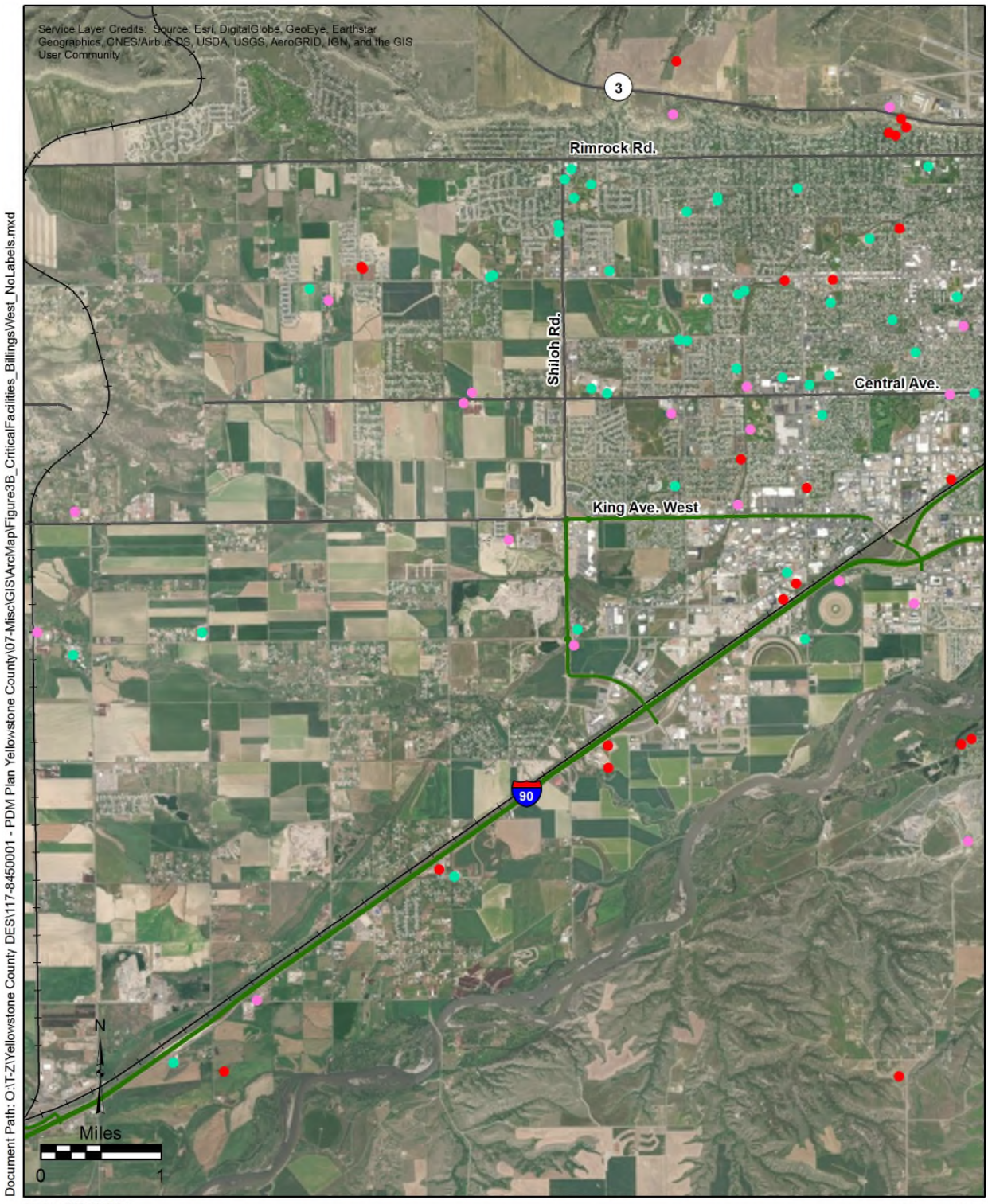


Figure 3B
Critical Facilities - Billings West
Yellowstone County, Montana
Multi-Hazard Mitigation Plan

Date: 3/17/2019

Figure 3C
Town of Laurel
Yellowstone County, Montana
Multi-Hazard Mitigation Plan

Figure 3D
Critical Facilities
Towns of Broadview & Worden
Yellowstone County, Montana
Multi-Hazard Mitigation Plan

1

Bridge data was obtained from the Montana State Library, Natural Resource Information System (NRIS) and the National Bridge Inventory. Bridge replacement values were extrapolated using unit costs for span length and width. **Figure 4** presents the bridge locations in Yellowstone County. **Appendix B-2** presents a key to the bridge inventory. Yellowstone County may wish to enhance the bridge data for the 2024 MHMP update by adding the major culverts in the county.

Building stock data was downloaded from the Montana State Library, NRIS Structure Framework dataset. This dataset consists of a routinely updated database of primary structures/buildings and addresses across the state of Montana. For the hazard risk analysis, important information within this dataset includes structure type and parcel number. Structure type indicates building function, e.g., agricultural, residential, commercial, churches, schools, etc. The four structure types retained for the hazard analysis included residential, and commercial, industrial, and agricultural. The dataset provides spatial locations of structures within each parcel.

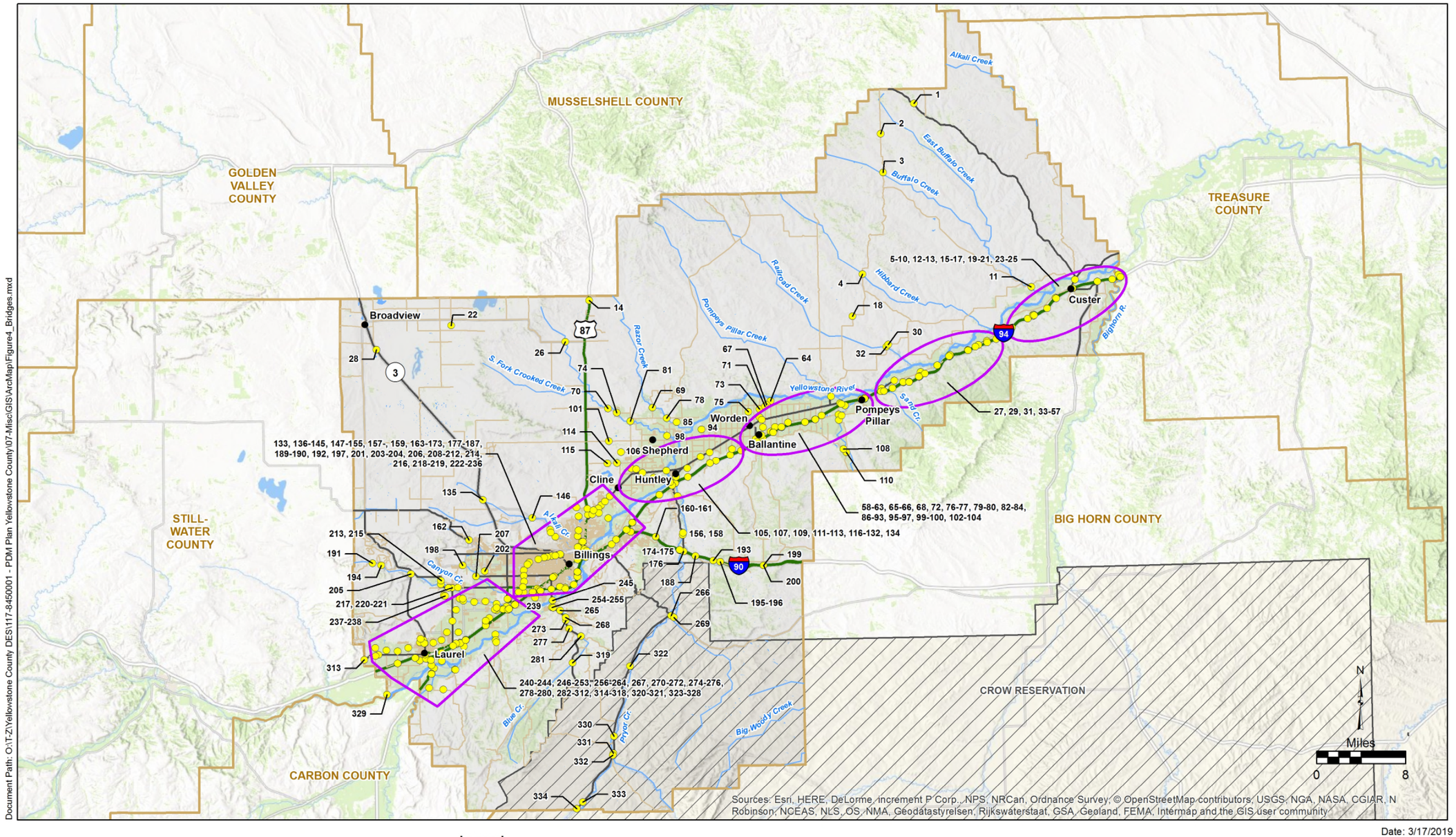
The NRIS Structures Framework dataset does not contain building values, an important factor in the MHMP vulnerability analysis. However, the dataset does contain parcel numbers which were related to the MDOR Cadastral Mapping Program dataset which contains both parcel numbers and building values. Building exposure in the risk assessment is presented for Yellowstone County, Billings, Laurel, and Broadview.

4.1.2 Vulnerable Population

Using the number of residential structures in each hazard impact area, vulnerable population was estimated by assigning 2017 U.S. Census county estimates on number of persons residing in each structure, percent of population over age 65 years, and under age 18. The number of residential buildings within a hazard impact area was multiplied by its respective county average number of people residing in a household in Montana (U.S. Census Quick Facts). Exceptions include structures typed as "Multi-Family" residential dwellings and "Nursing Home". Multi-Family structures (e.g., apartment buildings) were estimated at 18 people and nursing homes were estimated at 40 people. Census data also provided county percentages for persons under 18 years and persons 65 years and over. These percentages were multiplied by the total population number within a hazard area to calculate people at risk under 18 and age 65 years or more.

4.1.3 Hazard Identification

The 2012 Yellowstone County PDM Plan (Atkins, 2012) identified 18 hazards including: flooding, wildfire, weather, tornado, winter hazards, drought and insect infestation, urban fire, dam failure, expansive soils, landslide, earthquake, volcanic ash, transportation/mobile incident, hazardous material incident, terrorism/bio-terrorism, civil disturbance/riot/labor unrest, enemy attack, and other hazards which included infectious disease and utility outage. These hazards were reviewed by the MHMP Planning Team who considered what other hazards might have emerged since development of the 2012 PDM Plan and/or should not be detailed in the 2019 Plan update. Further details on hazard reconciliation is presented in *Section 4.1.5*.



Document Path: O:\T-Z\Yellowstone County DES\117-8450001 - PDM Plan Yellowstone County\07-Misc\GIS\ArcMap\Figure4_Bridges.mxd

Sources: Esri, HERE, DeLorme, increment P Corp., NPS, NRCan, Ordnance Survey, © OpenStreetMap contributors, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community

Legend

- Bridge*
- Place Name
- Primary Route
- Secondary Route
- Other Route
- River/Stream
- Lake
- County
- Crow Reservation

*Bridge dataset created by the Montana Dept. of Transportation

Date: 3/17/2019

Figure 4
Bridge Inventory
Yellowstone County, Montana
Multi-Hazard Mitigation Plan

4.1.4 Hazard Profiles

Hazard profiles were prepared for each of the identified hazards and are presented within this section according to their prioritized rank (see *Section 4.1.5*). The level of detail for each hazard is generally limited by the amount of data available.

Each hazard profile contains a description of the hazard and the history of occurrence, the vulnerability and area of impact, probability and magnitude, an evaluation of how future development is being managed to reduce risk, and how climate change may impact hazard probability and magnitude in the future. The methodology used to analyze each of these topics is further described below.

Description and History

A number of databases were used to describe and compile the history of hazard events profiled in this plan. This data was supplemented by input from the public, local officials, newspaper accounts, and internet research. The two primary databases used included the National Climatic Data Center (NCDC) Storm Events Database and Spatial Hazard Events and Losses Database for the United States (SHELDUS).

The NCDC Storm Events database receives Storm Data from the National Weather Service. The NWS receives their information from a variety of sources, including county, state and federal emergency management officials, local law enforcement officials, skywarn spotters, NWS damage surveys, newspaper clipping services, the insurance industry, and the general public. Storm Data is an official publication of the NOAA which documents the occurrence of storms and other significant weather phenomena having sufficient intensity to cause loss of life, injuries, significant property damage, and/or disruption to commerce.

SHELDUS is a county-level hazard data set for the United States for 18 different natural hazard event types. For each event, the database includes the date, location, property losses, crop losses, injuries, and fatalities that affected each county. The database includes every loss-causing and/or deadly event between 1960 through 1975 and from 1995 onward. Between 1976 and 1995, SHELDUS reflects only events that caused at least one fatality or more than $50,000 in property or crop damages. In order to compensate for the under-reporting of losses in general and to provide more loss-information for rural counties, SHELDUS now reports U.S. Department of Agriculture (USDA) data, which breaks down losses by floods, droughts, etc. just like the traditional SHELDUS data. However, the USDA data are all insured losses, i.e. disaster crop insurance payments (indemnity payments).

Vulnerability and Area of Impact

Vulnerabilities are described in terms of potential losses to critical facilities, structures, population, and socioeconomic values that can be affected by the hazard event. Hazard impact areas describe the geographic extent to which a hazard can impact a jurisdiction and are uniquely defined on a hazard-by-hazard basis. Mapping of the hazards, where spatial differences exist, allows for hazard analysis by geographic location. Some hazards can have varying levels of risk based on location. Other hazards cover larger geographic areas and affect the area uniformly.

Probability and Magnitude

Probability of a hazard event occurring in the future was assessed based on hazard frequency over a 100-year period. Hazard frequency was based on the number of times the hazard event occurred divided by the period of record. If the hazard lacked a definitive historical record, the probability was assessed qualitatively based on regional history and other contributing factors. Probability was broken down as follows:

- Highly Likely – greater than 1 event per year (frequency greater than 1).
- Likely – less than 1 event per year but greater than 1 event every 10 years (frequency greater than 0.1 but less than 1).
- Possible – less than 1 event every 10 years but greater than 1 event every 100 years (frequency greater than 0. 01 but less than 0.1).
- Unlikely – less than 1 event every 100 years (frequency less than 0.01)

The magnitude or severity of potential hazard events was evaluated for each hazard. Magnitude is a measure of the strength of a hazard event and is usually determined using technical measures specific to the hazard. Magnitude was calculated for each hazard where property damage data was available. Magnitude is expressed as a percentage according to the following formula:

- (Property Damage / Number of Incidents) / $ of Building Stock Exposure

Future Development

The impact to future development was assessed based on potential opportunities to limit or regulate development in hazardous areas such as building codes, zoning and subdivision regulations. The impacts were assessed through a narrative on how future development could be impacted by the hazard. Plans, ordinances and/or codes currently in place were identified that could be revised to better protect future development in Yellowstone County from damage caused by natural and man-made hazards.

Climate Change

An essential aspect of hazard mitigation is predicting the likelihood of hazard events in a planning area. Typically, predictions are based on statistical projections from records of past events. This approach assumes that the likelihood of hazard events remains essentially unchanged over time. Thus, averages based on the past frequencies of, for example, floods are used to estimate future frequencies: if a river has flooded an average of once every 5 years for the past 100 years, then it can be expected to continue to flood an average of once every 5 years.

For hazards that are affected by climate conditions, the assumption that future behavior will be equivalent to past behavior is not valid if climate conditions are changing. As flooding is generally associated with precipitation frequency and quantity, for example, the frequency of flooding will not remain constant if broad precipitation patterns change over time. Specifically, as hydrology changes, storms currently considered to be a 1 percent annual chance event (100-year flood) might strike more often, leaving many communities at greater risk. The risks of, landslide, severe storms, extreme heat and wildfire are all affected by climate patterns as well. For this reason, an understanding of climate change is pertinent to efforts to mitigate natural hazards. Information about how climate

patterns are changing provides insight on the reliability of future hazard projections used in mitigation analysis.

At the end of each hazard profile is a discussion on climate change. The information provides insight on how the hazard may be impacted by climate change and how these impacts may alter current exposure and vulnerability for the population, property, and critical facilities.

4.1.5 Hazard Ranking and Priorities

In ranking the hazards, the MHMP Planning Team completed a Calculated Priority Risk Index (CPRI) Work Sheet. The CPRI examines five criteria for each hazard (probability, magnitude/severity, economic impact, warning time, and duration); the risk index for each, according to four levels, then applies a weighting factor (**Table 4.1-1**). The result is a score that has been used to rank the hazards. Each hazard profile presents its CPRI score with a cumulative score sheet included in **Appendix B-1**. **Table 4.1-2** presents the results of the CPRI scoring for all hazards.

Table 4.1-1. Calculated Priority Risk Index

CPRI Category	Degree of Risk			Assigned Weighting Factor
	Level ID	Description	Index Value	
Probability	Unlikely	Rare with no documented history of occurrences of events. Annual probability of less than 0.01.	1	30%
	Possible	Infrequent occurrences with at least one documented or anecdotal historic event. Annual probability that is between 0.1 and 0.01	2	
	Likely	Frequent occurrences with at least two or more documented historic events Annual probability that is between 1 and 0.1	3	
	Highly Likely	Common events with a well-documented history of occurrence. Annual probability that is greater than 1	4	
Magnitude/ Severity	Negligible	Negligible property damages (less than 5% of critical and non-critical facilities and infrastructure). Injuries or illnesses are treatable with first aid and there are no deaths. Negligible quality of life lost. Shut down of critical facilities for less than 24 hours.	1	25%
	Limited	Slight property damages (greater than 5% and less than 25% of critical and non-critical facilities and infrastructure). Injuries or illnesses do not result in permanent disability and there are no deaths. Moderate quality of life lost Shut down of critical facilities for more than 1 day and less than 1 week.	2	
	Critical	Moderate property damages (greater than 25% and less than 50% of critical and non-critical facilities and infrastructure). Injuries or illnesses result in permanent disability and at least one death. Shut down of critical facilities for more than 1 week and less than 1 month	3	
	Catastrophic	Severe property damages (greater than 50% of critical and non-critical facilities an infrastructure). Injuries or illnesses result in permanent disability and multiple deaths. Shut down of critical facilities for more than 1 month.	4	

Table 4.1-1. Calculated Priority Risk Index

CPRI Category	Degree of Risk			Assigned Weighting Factor
	Level ID	Description	Index Value	
Economic Impact	Negligible	Little to no annual economic impact.	1	20%
	Limited	<$1 million annual economic impact.	2	
	Critical	<$1 billion but >$1 million in annual economic impact.	3	
	Catastrophic	>$1 billion annual economic impact.	4	
Warning Time	Less than 6 hours	Self-explanatory.	4	15%
	6 to 12 hours	Self-explanatory.	3	
	12 to 24 hours	Self-explanatory.	2	
	More than 24 hours	Self-explanatory.	1	
Duration	Less than 6 hours	Self-explanatory.	1	10%
	Less than 24 hours	Self-explanatory.	2	
	Less than one week	Self-explanatory.	3	
	More than one week	Self-explanatory.	4	

Table 4.1-2. Calculated Priority Ranking Index Summary; Yellowstone County

Hazard	Probability	Magnitude/ Severity	Economic Impact	Warning Time	Duration	CPRI Score
Severe Weather	Highly likely	Catastrophic	Critical	< 6 hours	< 1 week	3.7
Wildfire	Highly likely	Critical	Critical	< 6 hours	< 1 week	3.45
Ditch and Drain Failure	Likely	Critical	Critical	< 6 hours	> 1 week	3.25
Cyber Security	Highly likely	Limited	Critical	< 6 hours	< 1 week	3.2
Highway Accidents (Mass Casualty)	Highly likely	Critical	Negligible	< 6 hours	< 24 hours	2.95
Dam Failure	Unlikely	Catastrophic	Catastrophic	< 6 hours	< 24 hours	2.9
Railroad Accidents	Likely	Critical	Limited	< 6 hours	< 24 hours	2.85
Aircraft Accidents	Possible	Critical	Limited	< 6 hours	< 1 week	2.65
Communicable Disease	Likely	Critical	Limited	>24 hours	> 1 week	2.6
Flooding	Likely	Limited	Critical	>24 hours	> 1 week	2.55
Drought	Likely	Limited	Critical	>24 hours	> 1 week	2.55
Landslide / Rock Fall	Likely	Limited	Negligible	< 6 hours	< 6 hours	2.3
Volcanic Ash	Possible	Limited	Limited	12-24 hours	> 1 week	2.2
Hazardous Material Incidents	Possible	Limited	Negligible	< 6 hours	< 24 hours	2.1
Expansive Soils	Possible	Limited	Limited	>24 hours	< 1 week	1.95
Terrorism, Violence, Civil Unrest	Possible	Limited	Negligible	12-24 hours	< 24 hours	1.8

The Calculated Priority Risk Index scoring method has a range from 0 to 4. "0" being the least hazardous and "4" being the most hazardous situation.

The MHMP Planning Team felt that the CPRI ranking did not accurately represent hazard priorities for Yellowstone County. As such, the hazards were prioritized, and the top eight hazards are profiled in this Plan. Hazards profiled in the 2019 MHMP update include those from the 2012 PDM Plan with the following changes. Weather, tornado, winter hazards, and drought are combined into one hazard profile called Severe Weather and Drought. Terrorism/bio-terrorism, civil disturbance/riot/labor unrest are combined into one profile together with cyber security which is a new hazard for the 2019 Plan. Transportation/mobile incident and hazardous material incidents are combined into one profile. Flooding and dam failure are combined into one profile. Communicable disease has its own hazard profile. Ditch and drain failure is a new hazard for the 2019 Plan. **Table 4.1-3** shows the hazard priority for the 2019 MHMP compared to how hazards were ranked in 2012.

Table 4.1-3. Prioritized Hazards for 2019 MHMP

2018 Hazard Rank	Hazard Profile	2012 Hazard Rank / Comments	Section in 2018 Plan
#1	Severe Weather & Drought	Weather #1, Tornado #2 (tie), Winter Storms #4	Section 4.2
#2	Wildfire	#3	Section 4.3
#3	Ditch and Drain Failure	New hazard for 2019 Plan.	Section 4.4
#4	Terrorism/Violence/Civil Unrest/ Cyber Security	Terrorism not ranked in 2012 Plan. Cyber Security is new hazard for 2019 Plan.	Section 4.5
#5	Haz-Mat Incidents & Transportation Accidents	Not ranked in 2012 Plan.	Section 4.6
#6	Flooding & Dam Failure	Flooding #2 (tie), Dam Failure #6	Section 4.7
#7	Communicable Disease	Not ranked in 2012 Plan.	Section 4.8
#8	Landslide/Rock Fall	#5	Section 4.9

The MHMP Planning Team decided that the urban fire, earthquake, enemy attack, expansive soils, and volcanic ash hazards should be de-emphasized in the 2019 MHMP because they are either localized and not affecting a large portion of the population or are not considered are large risk in Yellowstone County. As such, their hazard profiles from the 2012 Yellowstone County PDM Plan are included in **Appendix B-3**.

4.1.6 Assessing Vulnerability – Estimating Potential Losses

The methodology used in the vulnerability analysis to estimate loss presents a quantitative assessment of the building stock, population, and critical facility exposure to the individual hazards. For hazards that are not uniform across the jurisdiction and instead occur in specific areas (e.g. wildfire, drain and ditch failure, hazardous material incidents/transportation accidents, flooding, dam failure, landslide and rock falls) the hazard area factored into loss estimation calculations. Building stock data, available from the NRIS Structures Framework and MDOR Cadastral Mapping Program was used in the analysis. Linking these two data sources enabled the location of structures within land parcels to be connected to their appraised value. Using GIS, hazard risk areas were intersected with the building stock data to identify the number of structures and exposure due to each hazard. Hazard risk areas were also intersected with critical facility, infrastructure and bridge data to determine the number and exposure to each hazard. Using the number of residential structures in each hazard area, vulnerable population was estimated by assigning U.S. Census estimates on number of persons residing in each structure, percent of population over age 65 years, and under age 18.

For hazards that are uniform across the jurisdiction with damage data (i.e. severe weather) the methodology presented below was used to determine annualized property loss.

- Exposure x Frequency x Magnitude

Where:

- Exposure = building stock, vulnerable population, or critical facilities at risk
- Frequency = annual number of events determined by calculating the number of hazard events / period of record
- Magnitude = percent of damage expected calculated by: (property damage/# incidents)/ building stock or critical facility exposure

For hazards without documented property damage (i.e. communicable disease, terrorism/cyber security), magnitude could not be calculated and therefore, exposure was determined to be the total value of the critical facilities and infrastructure, general building stock or population at risk. Annualized loss estimates cannot be calculated without property damage using this risk assessment approach.

Economic losses associated with the drought hazard were qualitatively analyzed by looking at crop production (spring wheat) statistics and comparing these across drought and non-drought years. Secondary impacts to retail sales in the community were not evaluated.

4.1.7 Data Limitations

Risk assessment and vulnerability analysis results are only a general representation of the potential loss that may be experienced from a hazard event and there are many inherent inaccuracies with the methodology used. Output is only as good as the data sources used and Yellowstone County may wish to consider alternate data for future MHMP updates.

The remainder of this section presents hazard profiles organized in accordance with county priority followed by a risk assessment summary. Vulnerability analysis results for each of the hazards, are compiled at the end of this section for Yellowstone County, Billings, Laurel, and Broadview.

4.2 Severe Weather and Drought

CPRI SCORES
SEVERE WEATHER = 3.7
DROUGHT = 2.55

Description and History

Severe weather hazards have become more significant in recent years due to climate change. Natural resource trends indicate the mean annual precipitation has been below average and the mean annual temperatures have been above average for the past five years making drought conditions more frequent. Severe summer weather includes thunderstorms, wind, hail, lightning, tornadoes, and microbursts that typically occur between May and October of each year. Winter weather hazards typically occur from late fall through early spring in Yellowstone County (November through April). Snow, blizzards, extended cold and high winds frequently occur together but also occur independent of one another during these months. Further details on severe weather hazards are profiled below.

Severe Winter Weather

Winter storms and blizzards follow a seasonal pattern that begins in late fall and lasts until early spring. These storms have the potential to destroy property and kill livestock and people. Winter storms may be categorized as sleet, ice storms or freezing rain, heavy snowfall or blizzards, and low temperatures. Blizzards are most commonly connected with blowing snow and low visibility. Winter also brings sustained straight-line winds that can be well over 50 mph.

A severe winter storm is generally a prolonged event involving snow or ice and extreme cold. The characteristics of severe winter storms are determined by the amount and extent of snow or ice, air temperature, wind speed, and event duration. A combination of temperatures to 30 below zero, snow conditions and high winds can close roads, threaten disruption of utilities and regional telecommunications, limit access to rural homes, impede emergency services delivery and close businesses. Such storms also create hazardous travel conditions, which can lead to increased vehicular accidents and threaten air traffic. Additionally, motorists stranded due to closed roads and highways may present sheltering needs.

The National Weather Service provides short-term forecasts of hazardous weather to the public by producing regularly-scheduled severe weather outlooks and updates on various forms of hazardous weather including blizzards and wind chill. Warning and Advisory Criteria for winter weather is presented in **Table 4.2-1**.

Table 4.2-1. Warning and Advisory Criteria for Severe Winter Weather

Winter Weather	Weather Advisory
Winter Storm Watch	Issued to give the public 12-48 hours of advance notice of the potential for snow 6 inches or more in 12 hours or 8 inches or more in 24 hours AND sustained or frequent wind gusts of 25 – 34 mph occasionally reducing visibilities to ¼ mile or less for three hours or more.
Winter Weather Advisory	Issued when a combination of winter weather elements that may cause significant inconveniences are occurring, imminent, or have a high probability of occurring.
Winter Storm Warning	Issued when snow 6 inches or more in 12 hours or 8 inches or more in 24 hours AND sustained or frequent wind gusts of 25-34 mph occasionally reducing visibilities to ¼ mile or less for three hours or more are occurring, imminent, or have a high probability of occurring.
Blizzard Watch	Issued to give the public 12-48 hours of advance notice of possible blizzard conditions (sustained winds or frequent gusts of 35 mph or greater and visibilities of less than a quarter mile from falling and/or blowing snow for 3 hours or more).
Blowing Snow Advisory	Issued for visibilities intermittently at or below ½ mile because of blowing snow.

Table 4.2-1. Warning and Advisory Criteria for Severe Winter Weather

Winter Weather	Weather Advisory
Blizzard Warning	Issued when blizzard conditions (sustained winds or frequent gusts of 35mph or greater and visibilities of less than a quarter mile from falling and/or blowing snow for 3 hours or more) are occurring, imminent, or have a high probability of occurring.
Freezing Rain Advisory	Issued when an accumulation of ice will make roads and sidewalks slippery, but significant and damaging accumulations of ice are not expected.
Ice Storm Warning	Issued when a significant and damaging accumulation of ice is occurring, imminent or has a high probability of occurring.
Snow Advisory	Issued when snow accumulations of 2-5 inches in 12 hours are expected.
Sleet Advisory	Issued when sleet accumulations causing hazardous conditions are expected.
Heavy Snow Warning	Issued when snow accumulations of 6 inches or more in 12 hours or 8 inches or more in 24 hours are expected.
Wind Chill Watch	Issued to give the public 12-48 hours advanced notice of the potential for wind chills of -40°F or colder with a wind speed of 10 mph or higher and a duration of 6 hours or more.
Wind Chill Advisory	Issued when wind chills of -20°F to -39°F with a wind speed of 10 mph or higher and a duration of 6 hours or more are expected.
Wind Chill Warning	Issued when wind chills of -40°F or colder with a wind 10 mph wind in combination with precipitation.

Source: National Weather Service, 2018.

Snow storms and bitterly cold temperatures are common occurrences in Yellowstone County and generally do not cause any problems as residents are used to winter weather and are prepared for it. Sometimes, however, blizzards can occur and overwhelm the ability to keep roads passable. Heavy snow and ice events also have the potential to bring down power lines and trees. Extreme wind chill temperatures may harm residents if unprotected outdoors or if heating mechanisms are disrupted.

There have been no federal disaster declarations or state emergencies declared in Yellowstone County for severe winter weather. **Table 4.2-2** presents the severe winter weather events in Yellowstone County since 1996.

Table 4.2-2. Yellowstone County Severe Winter Weather Reports (~November-April)

Date	Event	Magnitude	Date	Event	Magnitude	Date	Event	Magnitude
11/25/1996	Heavy Snow	-	10/5/2005	Heavy Snow	-	12/15/2013	High Wind	52 knots
12/25/1996	Winter Storm	-	11/18/2005	High Wind	66 knots	12/22/2013	Winter Storm	-
12/28/1996	Heavy Snow	-	2/1/2006	High Wind	81 knots	12/28/2013	High Wind	52 knots
4/6/1997	Heavy Snow	-	3/19/2006	Heavy Snow	-	1/13/2014	High Wind	58 knots
3/3/1998	Heavy Snow	-	12/13/2006	High Wind	54 knots	2/1/2014	Winter Storm	-
3/28/1998	Heavy Snow	-	1/11/2007	Heavy Snow	-	2/12/2014	High Wind	52 knots
12/18/1998	Cold/Wind	-	3/30/2007	Heavy Snow	-	2/23/2014	Winter Storm	-
12/26/1998	High Wind	61 knots	6/7/2007	High Wind	56 knots	2/27/2014	Winter Storm	-
12/28/1998	High Wind	57 knots	1/19/2008	Winter Storm	-	3/20/2014	High Wind	51 knots
12/29/1998	Ice Storm	-	10/9/2008	Winter Storm	-	11/25/2014	Winter Storm	-
2/2/1999	High Wind	59 knots	11/13/2008	High Wind	50 knots	12/21/2014	High Wind	50 knots
3/5/1999	Heavy Snow	-	12/13/2008	Blizzard	-	1/2/2015	Winter Storm	-
3/16/1999	High Wind	61 knots	12/26/2008	Winter Storm	-	2/7/2015	High Wind	50 knots
10/31/1999	High Wind	70 knots	12/29/2008	High Wind	53 knots	3/28/2015	High Wind	63 knots
2/26/2000	Heavy Snow	-	1/2/2009	High Wind	57 knots	4/14/2015	High Wind	51 knots
3/7/2000	Heavy Snow	-	1/11/2009	High Wind	51 knots	10/11/2015	High Wind	60 knots
4/5/2000	High Wind	64 knots	2/26/2009	Winter Storm	-	11/18/2015	High Wind	57 knots
9/22/2000	Heavy Snow	-	3/29/2009	Winter Storm	-	12/9/2015	High Wind	56 knots
11/30/2000	Heavy Snow	-	11/6/2009	High Wind	51 knots	12/14/2015	Winter Storm	-

Table 4.2-2. Yellowstone County Severe Winter Weather Reports (~November-April)

Date	Event	Magnitude	Date	Event	Magnitude	Date	Event	Magnitude
12/9/2000	Extreme	-	1/5/2010	Winter Storm	-	2/6/2016	High Wind	50 knots
12/15/2000	Extreme	-	1/22/2010	Winter Storm	-	3/13/2016	High Wind	51 knots
12/30/2000	Heavy Snow	-	2/1/2010	Winter Storm	-	4/4/2016	High Wind	56 knots
4/9/2001	Heavy Snow	-	4/8/2010	High Wind	50 knots	4/5/2016	High Wind	50 knots
10/23/2001	High Wind	58 knots	4/30/2010	High Wind	51 knots	10/14/2016	High Wind	51 knots
1/12/2002	High Wind	60 knots	11/16/2010	High Wind	51 knots	10/31/2016	High Wind	50 knots
3/8/2002	Heavy Snow	-	11/18/2010	Winter Storm	-	12/15/2016	Winter Storm	-
4/16/2002	Heavy Snow	-	11/28/2010	Winter Storm	-	12/20/2016	High Wind	52 knots
4/18/2002	Heavy Snow	-	12/29/2010	Winter Storm	-	1/31/2017	Winter Storm	-
8/16/2002	High Wind	78 knots	2/6/2011	Winter Storm	-	2/1/2017	Winter Storm	-
10/30/2002	Heavy Snow	-	9/19/2011	High Wind	56 knots	3/8/2017	Winter Storm	-
12/4/2002	Heavy Snow	-	10/29/2011	High Wind	50 knots	4/9/2017	Winter Storm	-
1/22/2003	Heavy Snow	-	11/25/2011	High Wind	51 knots	10/20/2017	High Wind	55 knots
3/7/2003	Heavy Snow	-	12/29/2011	High Wind	59 knots	12/19/2017	Winter	-
3/8/2003	Heavy Snow	-	1/18/2012	Winter Storm	-	12/28/2017	Winter Storm	-
3/9/2003	Heavy Snow	-	2/22/2012	High Wind	58 knots	2/8/2018	Winter Storm	-
10/31/2003	Heavy Snow	-	3/26/2012	High Wind	54 knots	2/14/2018	Winter Storm	-
12/26/2003	Blizzard	-	12/2/2012	High Wind	51 knots	3/3/2018	Winter Storm	-
3/24/2005	Heavy Snow	-	1/10/2013	Winter Storm	-	4/1/2018	Winter Storm	-
4/20/2005	Heavy Snow	-	12/2/2013	Winter Storm	-	2/8/2018	Winter Storm	-
5/12/2005	Heavy Snow	-	12/11/2013	Winter Weather	-			

Source: NCDC, 2018.

Project stakeholders identified several instances of severe winter weather since the 2012 PDM Plan was adopted, including two years with record-breaking snowfall, and the fatality of a transient individual from exposure.

Severe Summer Weather

A severe thunderstorm is defined by the National Weather Service as a thunderstorm that produces wind gusts at or greater than 58 mph (50 knots), hail 1-inch or larger, and/or tornadoes. Thunderstorms can also produce intense downbursts, lightning, and microburst wind. Strong winds can occur outside of thunderstorms when the overall weather conditions are favorable.

Tornadoes are the most concentrated and violent storms produced by the earth's atmosphere. They are created by a vortex of rotating wind and strong vertical motion, which possess remarkable strength and can cause widespread damage. The most violent tornadoes are capable of tremendous destruction with wind speeds of 300 mph or more. Maximum wind speeds in tornadoes are confined to small areas and vary over short distances. Thunderstorms can produce deadly and damaging tornadoes.

The National Weather Service provides short-term forecasts and warnings of severe summer weather to the public by producing regularly-scheduled severe weather outlooks and updates, as shown in **Table 4.2-3.**

Table 4.2-3. Warning and Advisory Criteria for Severe Summer Weather

Summer Weather	Weather Advisory
Hazardous Weather Outlook	Hazardous weather outlooks alert the public to the possibility for severe weather in the area from one to seven days in advance.
Severe Thunderstorm Watch	Issued when conditions for severe thunderstorms appear favorable for an area over the next several hours. Watches are typically in effect for 4-6 hours.
Severe Thunderstorm Warning	Issued when Doppler radar indicates or the public reports a thunderstorm with wind gusts of 5 8 mph or greater and/or hail 1-inch or larger in diameter. The warning is usually valid for 30-60 minutes.
High Wind Watch	Issued when conditions are favorable for non-thunderstorm sustained winds of 40 mph or greater or gusts of 58 mph or greater for a period of one hour or more, but the timing, location, and/or magnitude are still uncertain.
High Wind Warning	Issued when non-thunderstorm sustained winds of 40 mph or greater or gusts of 58 mph or greater for a period of one hour or more are expected.
Tornado Watch	Issued when conditions for tornadoes appear especially favorable for an area over the next several hours. Watches are typically in effect for 4-6 hours.
Tornado Warning	Issued when Doppler radar indicates or the public reports a tornado. The warning is usually valid for 15-45 minutes.

Source: National Weather Service, 2018.

There have been no federal disaster or state emergency declarations for severe summer weather in Yellowstone County. However, since the 2012 PDM Plan was completed, numerous incidents of severe summer weather have affected the county, as summarized in **Table 4.2-4**.

Table 4.2-4. Yellowstone County Severe Summer Weather Reports (~May-October)

Date	Event	Magnitude	Date	Event	Magnitude	Date	Event	Magnitude
5/13/1988	Tstorm Wind	52 knots	8/19/2001	Tstorm Wind	60 knots	6/15/2011	Hail	1 inch
6/5/1988	Tstorm Wind	65 knots	5/21/2002	Tstorm Wind	63 knots	6/15/2011	Tstorm Wind	52 knots
5/11/1989	Hail	1 inch	5/28/2002	Tstorm Wind	60 knots	7/3/2011	Tstorm Wind	61 knots
9/17/1989	Tstorm Wind	53 knots	7/8/2002	Tstorm Wind	62 knots	7/8/2011	Tstorm Wind	56 knots
5/24/1990	Tornado	F1	7/16/2002	Hail	1.75 inch	7/13/2011	Tstorm Wind	50 knots
5/31/1990	Hail	1.25 inch	7/16/2002	Tstorm Wind	86 knots	7/14/2011	Funnel Cloud	-
5/19/1991	Hail	3 inch	8/6/2002	Tstorm Wind	60 knots	7/14/2011	Hail	1.75 inch
5/20/1991	Hail	3 inch	8/29/2002	Tstorm Wind	60 knots	7/14/2011	Tstorm Wind	78 knots
6/7/1991	Hail	1.75 inch	4/25/2003	Hail	1 inch	8/5/2011	Tstorm Wind	52 knots
6/19/1991	Tornado	F0	6/20/2003	Hail	1 inch	8/11/2011	Hail	1 inch
6/21/1991	Tornado	F1	6/22/2003	Tstorm Wind	60 knots	8/11/2011	Hail	1 inch
6/24/1991	Hail	3.5 inch	7/26/2003	Tornado	F0	8/21/2011	Tstorm Wind	52 knots
8/2/1992	Tstorm Wind	61 knots	5/19/2005	Tstorm Wind	60 knots	8/22/2011	Tstorm Wind	61 knots
8/16/1993	Hail	1.25 inch	5/20/2005	Funnel Cloud	-	8/24/2011	Tstorm Wind	53 knots
6/16/1994	Hail	1 inch	5/20/2005	Hail	1.75 inch	8/29/2011	Tstorm Wind	56 knots
7/5/1994	Hail	2 inch	6/15/2005	Hail	2 inch	6/2/2012	Tstorm Wind	52 knots
7/9/1994	Tstorm Wind	65 knots	6/21/2005	Tstorm Wind	70 knots	3/3/2013	Tstorm Wind	50 knots
7/24/1994	Hail	1 inch	6/24/2005	Hail	1.5 inch	5/26/2013	Hail	1.75 inch
7/29/1995	Tstorm Wind	54 knots	6/28/2005	Tstorm Wind	65 knots	6/2/2013	Hail	1 inch
6/26/1996	Hail	1 inch	7/15/2005	Tstorm Wind	77 knots	6/13/2013	Hail	1.75 inch
7/2/1996	Tstorm Wind	52 knots	7/23/2005	Hail	1.5 inch	6/13/2013	Tstorm Wind	61 knots
7/5/1996	Hail	3 inch	8/11/2005	Tornado	F0	6/29/2013	Tstorm Wind	52 knots
7/5/1996	Tstorm Wind	52 knots	8/17/2005	Tstorm Wind	70 knots	7/4/2013	Hail	1 inch
6/17/1997	Tstorm Wind	78 knots	8/23/2005	Tstorm Wind	58 knots	7/8/2013	Hail	1 inch
6/18/1997	Funnel Cloud	-	9/3/2005	Tstorm Wind	62 knots	7/8/2013	Tstorm Wind	65 knots
6/18/1997	Hail	1.75 inch	7/12/2006	Tstorm Wind	70 knots	8/1/2013	Funnel Cloud	-
6/29/1997	Tstorm Wind	52 knots	7/23/2006	Lightning	-	8/1/2013	Hail	1.75 inch
7/9/1997	Tstorm Wind	69 knots.	8/17/2006	Hail	1.75 inch	9/6/2013	Tstorm Wind	70 knots

Table 4.2-4. Yellowstone County Severe Summer Weather Reports (~May-October)

Date	Event	Magnitude	Date	Event	Magnitude	Date	Event	Magnitude
7/20/1997	Tornado	F0	8/17/2006	Tstorm Wind	80 knots	9/7/2013	Hail	1.25 inch
8/27/1997	Tstorm Wind	59 knots	3/27/2007	Tstorm Wind	70 knots	9/7/2013	Tstorm Wind	63 knots
9/9/1997	Tstorm Wind	59 knots	5/3/2007	Hail	1.25 inch	5/5/2014	Hail	1 inch
5/13/1998	Funnel Cloud	-	5/13/2007	Hail	1.75 inch	5/18/2014	Hail	2.75 inch
6/13/1998	Tstorm Wind	53 knots	5/13/2007	Tstorm Wind	63 knots	5/18/2014	Tstorm Wind	59 knots
7/4/1998	Funnel Cloud	-	6/16/2007	Hail	2 inch	5/26/2014	Tstorm Wind	65 knots
7/4/1998	Hail	2.5 inch	6/17/2007	Hail	1.75 inch	7/22/2014	Tstorm Wind	61 knots
7/4/1998	Tornado	F0	6/24/2007	Hail	1.75 inch	6/10/2015	Hail	1 inch
7/27/1998	Hail	1 inch	7/7/2007	Hail	1 inch	6/19/2015	Hail	1 inch
7/27/1998	Tstorm Wind	52 knots	7/7/2007	Tstorm Wind	74 knots	6/19/2015	Hail	1.75 inch
7/31/1998	Hail	1.25 inch	7/14/2007	Tstorm Wind	61 knots	6/19/2015	Tstorm Wind	68 knots
7/31/1998	Tstorm Wind	52 knots	2/11/2008	Tstorm Wind	78 knots	7/1/2015	Hail	1 inch
8/23/1998	Tstorm Wind	61 knots	6/10/2008	Tstorm Wind	61 knots	7/1/2015	Tstorm Wind	52 knots
10/2/1998	Lightning	-	6/17/2008	Hail	1.25 inch	8/5/2015	Tstorm Wind	60 knots
4/28/1999	Hail	1.75 inch	7/1/2008	Tstorm Wind	55 knots	5/21/2016	Hail	2 inch
6/5/1999	Funnel Cloud	-	7/22/2008	Tstorm Wind	61 knots	5/21/2016	Tornado	EF1
6/18/1999	Tstorm Wind	52 knots	7/26/2008	Tstorm Wind	60 knots	5/25/2016	Hail	1 inch
7/20/1999	Hail	1 inch	8/7/2008	Tstorm Wind	50 knots	6/9/2016	Hail	1.25 inch
7/20/1999	Tstorm Wind	52 knots	3/16/2009	Tstorm Wind	61 knots	6/9/2016	Tstorm Wind	50 knots
8/15/1999	Funnel Cloud	-	5/12/2009	Hail	1 inch	7/15/2016	Tstorm Wind	52 knots
5/29/2000	Hail	1 inch	6/25/2009	Tstorm Wind	52 knots	7/27/2016	Hail	2.75 inch
7/9/2000	Hail	1 inch	7/3/2009	Funnel Cloud	-	7/31/2016	Tstorm Wind	54 knots
7/9/2000	Tstorm Wind	60 knots	7/4/2009	Lightning	-	8/6/2016	Tstorm Wind	61 knots
8/1/2000	Hail	1.5 inch	8/4/2009	Hail	1.25 inch	6/20/2017	Tstorm Wind	61 knots
4/30/2001	Tstorm Wind	85 knots	6/16/2010	Hail	1.75 inch	7/6/2017	Tstorm Wind	52 knots
6/26/2001	Hail	2 inch	6/16/2010	Tstorm Wind	73 knots	7/16/2017	Tstorm Wind	52 knots
6/26/2001	Tstorm Wind	90 knots	6/20/2010	Tornado	EF2	8/1/2017	Tstorm Wind	61 knots
6/28/2001	Hail	1.75 inch	7/1/2010	Hail	1 inch	5/7/2018	Hail	0.75 inch
7/2/2001	Hail	1.75 inch	7/21/2010	Tstorm Wind	54 knots	5/23/2018	Hail	1 inch
7/13/2001	Hail	2 inch	7/31/2010	Tstorm Wind	51 knots	5/27/2018	Hail	1 inch
7/14/2001	Hail	1 inch	8/6/2010	Tstorm Wind	54 knots	6/1/2018	Hail	0.75 inch
7/16/2001	Hail	1 inch	8/29/2010	Hail	1.75 inch	6/7/2018	Hail	1 inch
7/19/2001	Hail	1.75 inch	3/11/2011	Tstorm Wind	70 knots	6/21/2018	Hail	1 inch
7/19/2001	Tstorm Wind	91 knots	6/6/2011	Tornado	EF0	7/2/2018	Hail	1.5 inch
7/21/2001	Hail	1 inch	6/6/2011	Hail	1 inch	7/27/2018	Hail	1.75 inch
7/24/2001	Tstorm Wind	70 knots	6/6/2011	Tstorm Wind	61 knots	8/2/2018	Tstorm Wind	52 knots
7/26/2001	Hail	1 inch	6/15/2011	Funnel Cloud	-	8/3/2018	Tstorm Wind	62 knots
7/28/2001	Tstorm Wind	60 knots				8/14/2018	Hail	0.88 inch

Source: NCDC, 2018. Notes: Tstorm = Thunderstorm

Tornadoes have the potential to impact urban structures, farm and ranch land, private and public structures, utilities, and individuals. Since 1988, there have been 12 confirmed tornadoes and 10 funnel clouds reported in Yellowstone County. The first recorded tornado to touch down in Billings was on June 2, 1958. This tornado was rated as an F2 tornado on the Fujita scale and there was an estimated $20 million in damages (inflation adjusted). A newspaper account of a 2010 tornado in Billings is presented below.

June 20, 2010 - An EF2 tornado (enhanced Fujita scale) hit the downtown core section of Billings on Sunday June 20th. The tornado was on the ground for about 15 minutes and took the roof off the Rimrock Auto Arena at MetraPark, a 10,000 seat arena, and heavily damaged numerous businesses. The storm was accompanied by high winds and a major hail storm (with up to softball-sized hail)

that caused severe damage, dangerous cloud to ground lightning, and flash flooding in the Heights section of the city. Two people were on the MetraPark grounds when the tornado hit, but neither was hurt. A day earlier, thousands of people were inside the arena for an Indoor Football League game. The twister hovered for about 15 minutes over the arena. Wind speeds were estimated at 111 to 135 mph. Winds damaged homes, snapped trees and telephone poles, and left tangles of insulation and metal roofing strewn for hundreds of yards - some of it hanging from power lines. The tornado severely damaged a coin-operated laundry and hair salon in the same building and ripped off most of the roof at a marina and motorcycle shop, while causing minor damage at a bar and several other businesses. (Fox News*, Tornado Tears through Montana City, Ripping Roof Off a Sports Arena*, June 20, 2010). Damage from the 2010 tornado is estimated $34.7 million (inflation adjusted).

Drought

Drought is an extended period of unusually dry weather and is a special type of disaster because its occurrence does not require evacuation of an area nor does it constitute an immediate threat to life or property. People are not suddenly rendered homeless or without food and clothing. The basic effect of a drought is economic hardship, but it does, in the end, resemble other types of disasters in that victims can be deprived of their livelihoods and communities can suffer economic decline.

The effects of drought become apparent when they are in longer duration because more and more moisture-related activities are affected. Non-irrigated croplands are most susceptible to moisture shortages. Rangeland and irrigated agricultural lands do not feel the effects as quickly as the non-irrigated, cultivated acreage, but their yields can also be greatly reduced due to drought.

Typically, droughts are not declared disasters in the same way as a Presidential Disaster Declaration; rather, they are declared by the Secretary of the Department of Agriculture. Conservation Reserve Program (CRP) grazing may be opened to livestock owners for feed but other than this, the only real help for producers and growers is the fact that federal low interest loans are made available.

In periods of severe drought, range fires can destroy the economic potential of the agricultural industry, and wildlife habitat in, and adjacent to, the fire areas. Under extreme drought conditions, lakes, reservoirs, and rivers can be subject to severe water shortages. Insect infestation is an additional hazard resulting from drought. **Table 4.2-5** presents the National Weather Service warnings and advisories that relate to drought.

Table 4.2-5. Warning and Advisory Criteria for Drought

Summer Weather Warning	Warning Description
Blowing Dust Advisory	Issued for widespread or localized blowing dust reducing visibilities to less than a mile but greater than ¼ mile with sustained winds of 25 mph or greater.
Dust Storm Warning	Issued when widespread or localized blowing dust reduces visibilities to less than ¼ mile with sustained winds of 25 mph or greater.
Heat Advisory	Issued when conditions are favorable for heat index values reaching 105 degrees or greater for three days or more.
Heat Warning	Issued when high temperatures are expected to be over 105 degrees and low temperatures are expected to be over 80 degrees for three days or more.

Source: National Weather Service, 2018.

The National Drought Mitigation Center identifies Montana as a drought-prone state. Temperatures can reach 100°F in the summer with extremely low humidities and high winds. Such dry, hot conditions contribute to drought conditions. The history of drought in Montana, as presented in the State of Montana Natural Hazards Mitigation Plan (DES, 2001) is summarized below.

In the 1930's, the "Dust Bowl" drought affected the State of Montana, including Yellowstone County. This nationwide drought produced erosion problems in the creation of dust storms throughout the State. Again, in the mid 1950's, Montana had a period of reduced rainfall.

Drought struck Montana again in 1961, and by July, the State's Crop and Livestock Reporting Service called it the worst drought since the 1930's. Better conservation practices such as strip cropping were used to lessen the impacts of the water shortages. Five years later in 1966, the entire state was experiencing yet another episode of drought. Although water shortages were not as great as in 1961, a study of ten weather recording stations across Montana showed all had recorded below normal precipitation amounts for a ten-month period.

Then in the 1970's, a seven-month survey ending in May of 1977 estimated that over 250,000 acres of Montana farmland had been damaged by winds. Inadequate crop cover and excessive tillage practices had resulted in exaggerated soil damage due to low soil moisture. The State of Montana began taking protective measures to conserve water.

Montana was severely affected by drought again in 1985 and received a federal drought disaster declaration. For a typical 2,500-acre Montana farm/ranch, the operator lost more than $100,000 in equity over the course of that year. The state's agriculture industry lost nearly $3 billion in equity.

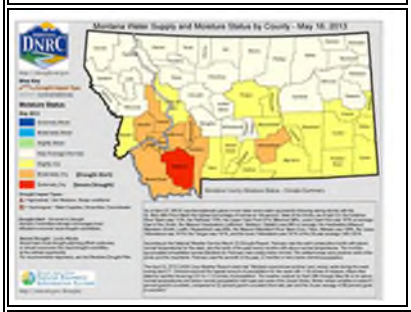
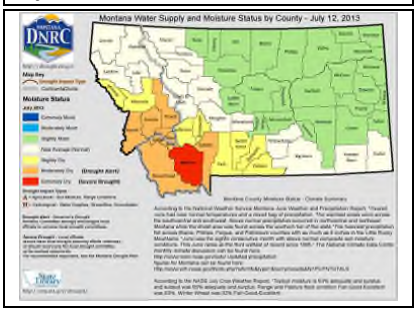
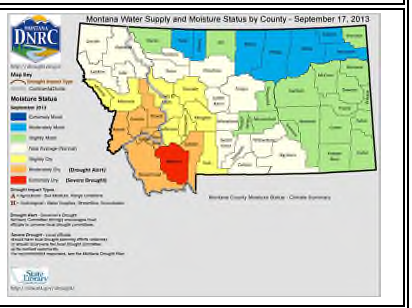
Montana had drought conditions from 2000 through 2008 and received a total of $152.4 million in disaster assistance from the Farm Service Agency in 2004, 2005, and 2006.

The drought of 2017 was of epic proportions stretching 680 miles west to east across the state. This was the first summer in 10 years that so much of the state experienced drought at the same time and the first year since 2004 that more than 10 percent of the state was in extreme drought. The summer of 2017 was the second warmest on record since 1950 at 4 degrees above average, and the persistent high temperatures coupled with the record lowest rainfall in July and August shifted the relatively wet conditions of spring into extreme drought by mid-summer. The speed of the transition from wet to dry was so rapid that the term "flash drought" has been coined. (Billings Gazette, *Montana Drought Drives Cattle to Market Early*, October 14, 2017; Billings Gazette, *Nearly all of Montana is in Drought*, August 19, 2017; Bozeman Daily Chronical, *The Worst Drought We've Ever Had: Farmers, Ranchers Across the State Struggle with Historic Dry Spell*, September 3, 2017).

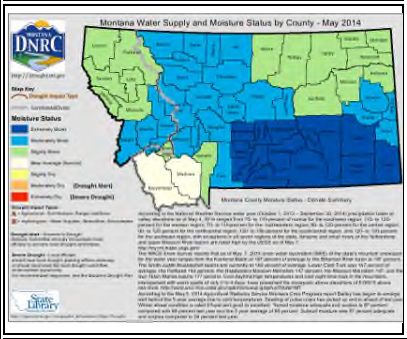
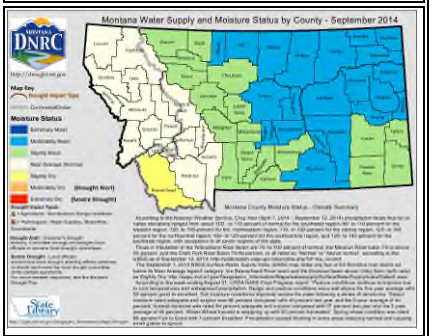
In coordination with the Montana Governor's Drought and Water Supply Advisory Committee, the Montana State Library publishes monthly maps of moisture status by county. This webpage allows users to easily download, view, and compare moisture status maps between months and years beginning in 2002. New maps are published approximately the first half of each month. **Table 4.2-6** shows the Montana drought status since the last Plan. **Table 4.2-7** summarizes drought conditions in Yellowstone County from 2002 to 2019. Since the Yellowstone County PDM Plan was completed in 2012, severe drought conditions impacted the county in 2016 and 2017.

Table 4.2-6. Montana Drought Status; 2013-2018

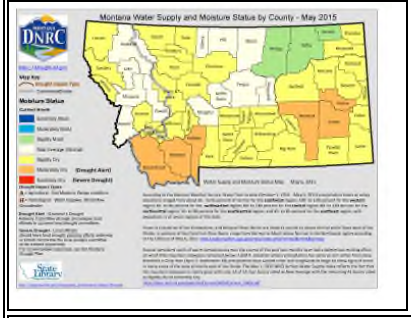
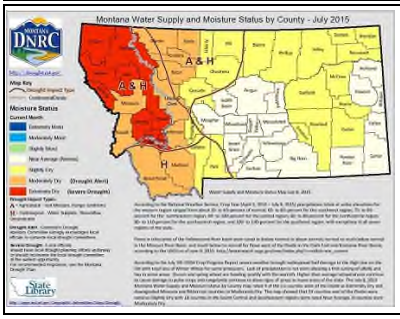
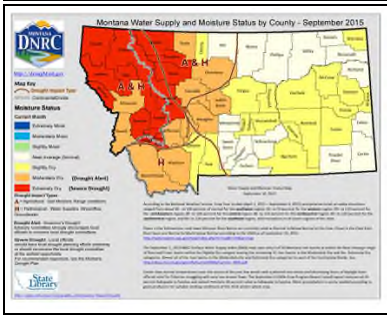
2013 Montana County Drought Status

May	July	September
		

2014 Montana County Drought Status

May	July	September
		

2015 Montana County Drought Status

May	July	September
		

2016 Montana County Drought Status

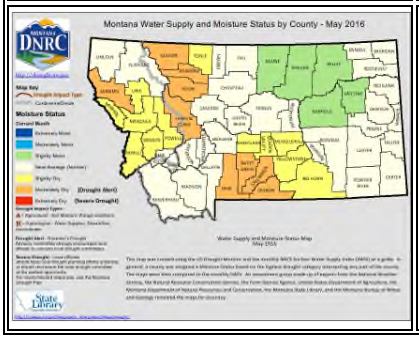
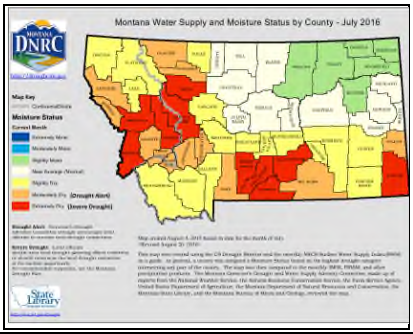
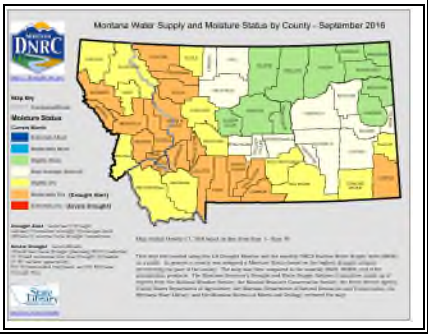
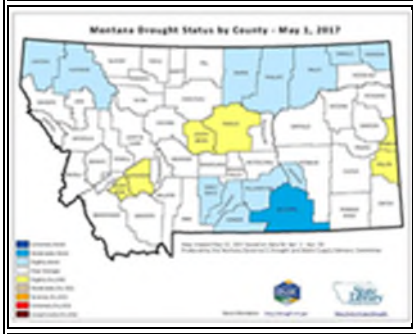
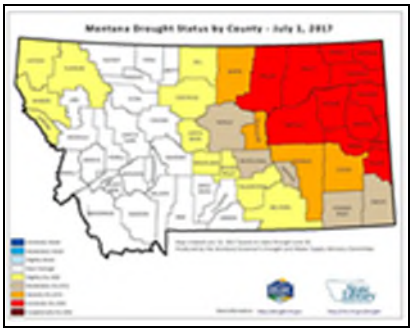
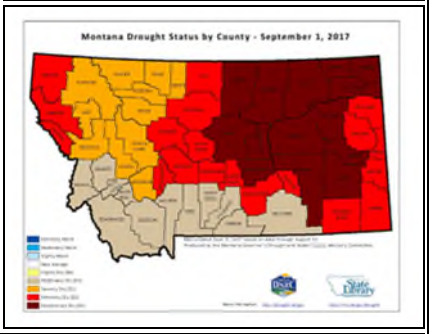
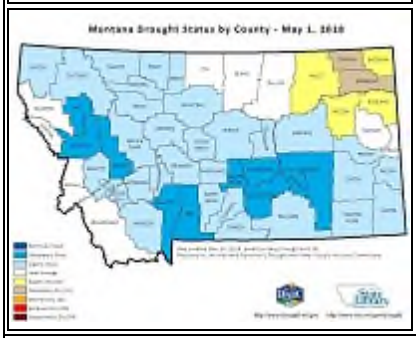
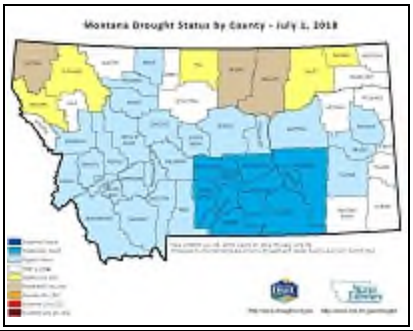
May	July	September
		

Table 4.2-6. Montana Drought Status; 2013-2018

2017 Montana County Drought Status

May	July	September
		

2018 Montana County Drought Status

May	July	September
		

Source: Montana Drought Website (https://mslservices.mt.gov/Geographic_Information/Maps/drought/

Table 4.2-7. Yellowstone County Drought Summary

Moisture	Alerts	2003			2004			2005			2006			2007			2008			2009			2010		
		May	July	Sept	May	July	Sept	May	July	Sept	May	July	Sept	May	July	Sept	May	July	Sept	May	July	Sept	May	July	Sept
No Drought	Moist																								
No Drought																									
Slightly Dry																									
Moderately Dry	Drought Alert																								
Severely Dry	Severe Drought																								
Extremely Dry																									

Moisture	Alerts	2011			2012			2013			2014			2015			2016			2017			2018		
		May	July	Sept	May	July	Sept	May	July	Sept	May	July	Sept	May	July	Sept	May	July	Sept	May	July	Sept	May	July	Sept
Extremely Moist																									
Moderately Moist																									
Slightly Moist																									
Near Average	Normal																								
Slightly Dry																									
Moderate-Severely Dry	Drought Alert																								
Extremely-Exceptionally Dry	Severe Drought																								

Vulnerability and Area of Impact

Based on review of historic weather data, all of Yellowstone County has been classified with a uniform risk for severe weather events. Structures, utilities, and vehicles are most at risk from the wind component of these storms, with crops and livestock being additionally threatened by hail.

Drought affects all facets of our society, from food production to water quality to public health, and there is a growing need to help communities, agriculture, businesses, and individuals threatened by

drought to plan accordingly. From 1980-2000, major droughts and heat waves within the U.S. alone resulted in costs exceeding $100 billion. Severe droughts are projected for the next several decades, impacting the nation's communities and economy (NDRP, 2018).

Unlike many other events, drought evolves slowly, and therefore, the direct impact to the population (i.e. loss of life, injuries) and structure damage would be low. Drought however, can have significant impacts on drinking water security and negatively affect the county's agricultural economy. Yellowstone County communities rely on surface water for public water supplies. A reduction in river flows could cause water intake infrastructure to be compromised resulting in water shortages. Reduced irrigation could result in loss of pasture and food supply for livestock. These losses would be in addition to those losses associated with lower crop yields due to drought conditions.

Another major impact of drought is to the natural resources of the area. As river and stream levels drop, fish populations and other natural resources are impacted.

A hazard directly related to drought is wildfire. With increased temperatures and drought conditions, moisture content in vegetation in reduced making fuel for wildfire. Crops and pasture can be significantly impacted by wildfire and therefore, impacting the agricultural economy.

On March 21, 2016, President Obama signed a Presidential Memorandum directing federal agencies to build national capabilities for long-term drought resilience. The President tasked the National Drought Resilience Partnership (NDRP) to work collaboratively to deliver on a Federal Action Plan that included six goals and 27 associated actions to promote drought resilience nationwide. Importantly, these goals reflect many of the priorities identified by the on-the-ground leaders and experts who work daily to build a more resilient future for their communities. The actions are designed to complement state, regional, tribal and local drought preparedness, planning and implementation efforts.

Federal agencies have mobilized to provide improved information and data, emergency and planning assistance, landscape-scale land management improvements, and investments in new technologies and approaches to water resource management. Continued drought conditions in the West and projections of more extreme droughts in the future underscore the urgency to pursue long term solutions for protecting our water resources and the communities and ecosystems that depend on them. The State of Montana has established a Drought Advisory Committee and developed a Drought Plan to help mitigate the drought hazard.

Probability and Magnitude

Snow generally does not cause Yellowstone County communities to shut down or disrupt activities. Occasionally though, extreme winter weather conditions can cause problems. The most common incident in these conditions are motor vehicle accidents due to poor road conditions. Such incidents normally involve passenger vehicles; however, an incident involving a commercial vehicle transporting hazardous materials or a vulnerable population such as a school bus is also possible. **Table 4.2-8** presents severe winter weather events with reported damages from the SHELDUS and NCDC databases.

Table 4.2-8. Yellowstone County Severe Winter Weather Events with Damages

Year	Injuries	Fatalities	Property Damage (2016 $)	Crop Damage (2016 $)	Year	Injuries	Fatalities	Property Damage (2016 $)	Crop Damage (2016 $)
1961	0	0	0	$869	1986	0	0	0	$9
1962	0.07	0	$40	$0	1987	0.14	0	$77	$0
1963	0.04	0	$74	$0	1988	0	0	$795	$1,476
1964	0	0	$34,575	$0	1989	0	0	$188,188	$173
1967	1	0.00001	0	$0	1990	0	0	$3,138	$0
1969	0	0	$584	$0	1991	0	0	$19,012	$0
1971	0	0	$10,775	$10,775	1992	0	0	$1,971	$2,772
1973	0	0	$57,463	$0	1993	0	0	$664	$4,027
1975	0	0	$47,315	$0	1994	0	0	$15,083	$0
1978	0.02	0	$446,197	$892,394	1995	0	0	$251	$0
1980	0	0	$7,414	$0	2000	0	0	$1,987	$0
1982	0	0	$7,034	$7,034	2014	0	1	$0	$0
1983	0	0	$3,228	$323	**TOTAL**	**1.27**	**1.00001**	**$845,865**	**$919,852**

Source: SHELDUS, 2017 (adjusted to 2018 dollars). Note: Often casualties and damage information are listed without sufficient spatial reference. In order to assign the damage amount to a specific county, the fatalities, injuries and dollar losses were divided by the number of counties affected from this event.

Sheltering of community members could present significant logistical problems when maintained over a period of more than a day. Transportation, communication, energy (electric, natural gas, and vehicle fuels), shelter supplies, medical care, food availability and preparation, and sanitation issues all become exceedingly difficult to manage in extreme weather conditions. The American Red Cross has a presence in Yellowstone County and has the capacity to provide care for the duration of a severe weather event if needed through pre-determined sheltering agreements.

Table 4.2-9 presents severe summer weather events with reported damages in Yellowstone County.

Table 4.2-9. Yellowstone County Severe Summer Weather Events with Damages

Year	Injuries	Fatalities	Property Damage (2016 $)	Crop Damage (2016 $)	Year	Injuries	Fatalities	Property Damage (2016 $)	Crop Damage (2016 $)
1960	0	0	$0	$41,279	1985	0	2	$68,134	$0
1961	0	0	$1,739	$21,476	1986	0	0	$279	$27,871
1962	0	0	$4,056,029	$101,148	1987	0	0	$108	$107,559
1963	0	0	$41,261	$811,915	1988	0	0	$32,122	$0
1965	0	0	$475,170	$789,364	1989	0	0	$99,605	$0
1966	0	0	$3,771,192	$556,700	1990	0	0	$96,291	$10,283
1968	0	0	$35,111	$438,889	1991	0	0	$651,972	$266,592
1969	0	0	$6	$0	1992	0	0	$10,451	$8,709
1970	0	0	$98,494	$67,003	1993	0	1	$121,764	$8,456
1971	0	0	$40,944	$10,775	1994	0	0	$127,795	$0
1972	0	0	$5,621	$0	1998	2	0	$21,005,603	$3,748,056
1973	0	0	$695	$834	1999	0	0	$7,334	$0
1974	0	0	$826	$0	2006	1	0	$0	$0
1975	0	0	$473	$4,732	2009	0	1	$0	$0
1983	1	0	$260,851	$2,776	2010	0	0	$33,620,706	$0
1984	0	0	$653,334	$0	**TOTAL**	4	4	**$65,283,910**	**$7,024,417**

Source: SHELDUS, 2017 (adjusted to 2016 dollars).

Windstorms can affect areas with significant tree stands, as well as areas with exposed property, major infrastructure, and aboveground utilities. Severe hailstorms can also cause considerable damage to buildings and automobiles, but rarely result in loss of life. Nationally, hailstorms cause nearly $1 billion in property and crop damage annually. The Planning Team indicated that since the 2012 PDM Plan was adopted, Yellowstone County sustained damaging hail in 2013, 2015 and 2016.

Annual loss was computed for the severe weather hazard in Yellowstone County using SHELDUS data and the formula: Frequency x Magnitude x Exposure = Annual Loss, as further explained in *Section 4.1.6*. **Table 4.2-10** presents the results of these calculations.

Table 4.2-10. Yellowstone County Severe Weather Annual Loss

No. of Events	Period of Record (Yrs)	Frequency	Property Damage	Magnitude	Exposure	Annual Loss
302	23	13.13	$54,633,643	0.00117%	$15,461,068,466	$2,375,297

The National Drought Mitigation Center tracks indemnity payments for losses suffered due to drought on a county basis. **Table 4.2-11** presents drought damages for a 25-year period (1989 to 2014) for Yellowstone County and the State of Montana.

Table 4.2-11. Drought Insurance Claims; Yellowstone County 1989 - 2014

Year	Montana	Yellowstone Co.	Year	Montana	Yellowstone Co.	Year	Montana	Yellowstone Co.
1989	$14,361,948	$91,077	1998	$18,201,060	$231,452	2007	$22,015,676	$148,647
1990	$29,146,575	$123,246	1999	$19,189,328	$295,324	2008	$74,979,811	$513,517
1991	$2,775,746	$16,404	2000	$44,989,149	$1,188,732	2009	$30,435,526	$440,280
1992	$37,767,835	$27,792	2001	$131,976,513	$1,436,633	2010	$5,289,266	$144,766
1993	$344,432	$17,614	2002	$108,139,519	$2,687,623	2011	$52,075,321	$25,680
1994	$5,539,598	$42,984	2003	$41,148,170	$856,134	2012	$10,055,101	$1,945,364
1995	$2,413,758	$257	2004	$29,427,194	$1,075,579	2011	$11,670,134	$715,288
1996	$10,637,521	$99,240	2005	$5,905,724	$156,618	2014	$5,289,266	$56,349
1997	$3,830,310	$2,480	2006	$41,483,327	$747,934	**TOTAL**	**$759,087,808**	**$13,087,014**

Source: National Drought Mitigation Center 2018; http://drought.unl.edu/Planning/Impacts/DroughtIndemnityData.aspx

Table 4.2-12 shows how drought has impacted the yield of winter wheat in Yellowstone County for five documented drought years. The year 2010, considered a non-drought year, is used for comparison purposes and prices are adjusted for inflation. The analysis shows that drought has caused tens of millions of dollars in lost revenue for agricultural producers in Yellowstone County.

Table 4.2-12. Estimate of Economic Loss from Drought; Yellowstone County

Year	Winter Wheat					
	Spring Wheat Yield (bu/acre)	Spring Wheat (acres harvested)	Price Per Bushel (Adjusted to 2018 $)	Economic Value in 2018 $	Drought Yield Reduction	Drought Loss in Adjusted 2018 $
2010 ND	36.7	77,400	$6.70	$19,031,886		
2008	33				10.08%	$1,918,746
2004	27				26.43%	$5,030,226
1988	19				48.23%	$9,178,866
1953	18.5				49.59%	$9,438,156
1934	9				75.48%	$14,364,666

Source: USDA National Agricultural Statistics Service, 2018. Notes: ND = No Drought

NOAA's Paleoclimatology Program has studied drought by analyzing records from tree rings, lake and dune sediments, archaeological remains, historical documents, and other environmental indicators to obtain a broader picture of the frequency of droughts in the United States. According to their research, "…paleoclimatic data suggest that droughts as severe as the 1950's drought have occurred in central North America several times a century over the past 300-400 years, and thus we should expect (and plan for) similar droughts in the future. The paleoclimatic record also indicates that droughts of a much greater duration than any in the 20th century have occurred in parts of North America as recently as 500 years ago." Based on this research, the 1950's drought situation could be expected approximately once every 50 years or a 20 percent chance every 10 years. An extreme drought, worse than the 1930's "Dust Bowl" has an approximate probability of occurring once every 500 years or a 2 percent chance of occurring each decade (NOAA, 2004).

Severe weather occurs in Yellowstone County multiple times each year. Therefore, the probability of a severe storm in either the winter or summer is rated as "highly likely". Based on historic conditions, the probability of future drought events in Yellowstone County are ranked as "likely", occurring more than once every 10 years but not every year.

The City of Billings is in the process of developing a secondary source of water to mitigate possible impacts of drought and serve the west end of the city. Currently, Billings draws drinking water from the Yellowstone River. The new 290-acre reservoir and treatment plant will be developed at a cost of $84 million and be located at Shiloh and Hesper Roads. Property for the project will be purchased from Knife River Materials and from Yellowstone County. The reservoir will pull water from the Billings Bench Water Association Canal and provide 20 million gallons of water a day for eight months of the year. The reservoir will boost water supply during the hot summer months and serve as back-up for the Billings main plant. The reservoir is expected to be complete in about two years and the treatment plant in about five years. (Big Sky Journal, *City Purchases Property for Reservoir and New Water Treatment Plant*, February 17, 2019).

Future Development

The State of Montana has adopted the 2012 International Building Codes (IBC) which include a provision that buildings must be constructed to withstand a wind load of 75 mph constant velocity and three second gusts of 90 mph and must be designed to withstand a snow load of 30 pounds per square foot minimum. The IBC does not cover single-family residences.

The State of Montana has adopted the 2012 International Residential Code (IRC) for one and two-family residences and townhouses. Local jurisdictions (cities, counties and towns) can elect to become certified to take on enforcement of single-family residences. Yellowstone County and the Cities of Billings and Laurel are certified to enforce building codes. The Town of Broadview does not have a building department and therefore, has no enforcement capabilities to ensure State building codes are followed.

Drought could have an effect on future development with regards to drinking water availability. New connections to the municipal water supply or new domestic water wells could use up more of the surface and groundwater resource, particularly during periods of drought.

Climate Change

The frequency of severe weather events has increased steadily over the last century. The number of weather-related disasters during the 1990s was four times that of the 1950s, and cost 14 times as much in economic losses. Historical data shows that the probability for severe weather events increases in a warmer climate. There has been a sizable upward trend in the number of storms causing large financial and other losses.

According to the National Climate Change Assessment (2018), climate change can and has altered the risk of certain types of extreme weather events. The number of heat waves has been increasing in recent years with the number being almost triple the long-term average. These increases in extreme heat will have many negative consequences, including increases in surface water losses, heat stress, and demand for air conditioning. Montana has seen an uptick in average temperature of about 2 degrees F in the last 50 years, while precipitation has stayed largely the same.

Rising temperatures are leading to increased demand for water and energy. In parts of the region, this will constrain development, stress natural resources, and increase competition for water among communities, agriculture, energy production, and ecological needs. Changes in average temperatures can impact vegetation growth and the location and extent of pests. Higher temperatures may also lead to increases in wildfire occurrences. Extreme heat will have a profound effect on vulnerable populations, as most Montana homes do not have air conditioning.

Changing extremes in precipitation are projected across all seasons, including higher likelihoods of both increasing heavy rain and snow events. Winter and spring precipitation is projected to increase in the northern states of the Great Plains, relative to the 1971-2000 average. Winter storms have increased in frequency and intensity since the 1950s, and their tracks have shifted northward over the U.S. Projected changes in summer and fall precipitation are small; however, the number of days with heavy precipitation is expected to increase by mid-century. For other types of extreme weather events, such as tornadoes and severe thunderstorms, more research is needed to understand how climate change will affect them.

The effects of climate change can harm agricultural activities, both crops and livestock. The changes in temperature and precipitation brought on by climate change can make it harder to grow some crops. Evaporation and the higher rate at which plants lose moisture through their leaves both increase with temperature. Unless higher evapotranspiration rates are matched by increases in precipitation, environments will tend to dry, promoting drought conditions. Intense rains can increase runoff and deprive plants of nutrient-rich topsoil and changes in temperatures may cause crops to mature earlier, which can expose them to harsh weather. Warmer temperatures can introduce new agricultural pests to the region or make conditions better for pests already present, including weeds and invasive plants that can crowd out crops. Maintaining agricultural activities on marginal lands may no longer be sustainable (FEMA, 2016).

Maintaining stream flows during warm season months will likely necessitate reconsideration of water storage practices and reservoir management. Changing seasonality of water availability will likely put additional stress on the water rights system, making it difficult to access water at crucial times (Whitlock, et.al, 2017).

Population exposure and vulnerability to severe weather and drought are likely to increase as a result of climate change. Severe weather events may occur more frequently which would lead to increased exposure and vulnerability. Although all people may be affected by the health-related impacts of climate change, the elderly, young children, and people with weakened immune systems are often the most susceptible. Some people without access to backup water supplies may suffer water shortages and a greater number of people may need to engage in behavior change such as water conservation.

Property exposure and vulnerability may increase as a result of increased severe weather and drought resulting from climate change. Increased structure damage from high winds, hail and snow load could result as well as damage to crops and landscaping. Secondary impacts, such as wildfire, may increase and threaten structures.

Critical facility exposure and vulnerability are unlikely to increase as a result of climate change impacts associated with severe weather and drought; however, critical facility owners and operators may experience more frequent disruption to the services they provide. For example, extreme heat can decrease the effectiveness of electrical equipment, including power lines, which can lead to blackouts during very hot conditions. An increase in requests for medical assistance during a heat wave may challenge emergency response capabilities. The need for community cooling centers could result an increase in number of critical facilities.

4.3 Wildfire

CPRI SCORE = 3.45

Description and History

A wildfire is an unplanned fire, a term which includes grass fires, forest fires and scrub fires, both man-caused and natural in origin. Severe wildfire conditions, often brought on by drought, have historically represented a threat of potential destruction to the agricultural economy within the region. Negative impacts of wildfire include loss of life, property and resource damage or destruction, severe emotional crisis, widespread economic impact, disrupted and fiscally impacted government services, and environmental degradation.

Wildfire risk in a particular area is a combination of the chance that a wildfire will start in or reach that area and the potential loss of human values if it does. Human activities, weather patterns, wildfire fuels, agricultural practices, values potentially threatened by fire, and the availability (or lack) of resources to suppress a fire all contribute to wildfire risk. Conservation Reserve Program land and the change of agricultural practices, i.e. no-till farming, have contributed to the wildland fire risk in Yellowstone County.

Fire season is the result of low rainfall, high temperatures, low humidity, and thunderstorms, high winds and lightning. Varied topography, semi-arid climate, and numerous human-related sources of ignition make this possible. Man-made wildfire ignitions including; debris burning, downed powerlines, fireworks, arson, and heated farm equipment in dry grass or crops.

Major wildfires can occur at any time of year. **Table 4.3-1** presents warning and advisory criteria for wildfire and a description of prohibitions that land management agencies can put into effect to reduce fire risk and prevent wildfires during periods of high to extreme danger.

Table 4.3-1. Warning, Advisories and Restrictions for Wildfire

Warning/Advisory/ Restriction	Description
Fire Weather Watch	A fire weather watch is issued when Red Flag conditions (see Red Flag Warning) are expected in the next 24 to 72 hours.
Red Flag Warning	A red flag warning is issued when Red Flag criteria are expected within the next 12 to 24 hours. A Red Flag event is defined as weather conditions that could sustain extensive wildfire activity and meet one or more of the following criteria in conjunction with "Very High" or "Extreme" fire danger: • Sustained surface winds, or frequent gusts, of 25 mph or higher; • Unusually hot, dry conditions (relative humidities less than 20%); • Dry thunderstorm activity forecast during an extremely dry period; • Anytime the forecaster foresees a change in weather that would result in a significant increase in fire danger. For example, very strong winds associated with a cold front even though the fire danger is below the "Very High" threshold.
Fire Warning	A fire warning may be issued by local officials when a spreading wildfire or structure fire threat ens a populated area. Information in the warning may include a call to evacuate areas in the fire's path as recommended by officials according to state law or local ordinance.
Dense Smoke Advisory	Dense smoke advisories are issued when the widespread visibilities are expected at a ¼ mile or less for a few hours or more due to smoke.

Table 4.3-1. Warning, Advisories and Restrictions for Wildfire

Warning/Advisory/ Restriction	Description
Stage 1 Fire Restriction	No building, maintaining, attending, or using a fire, campfire, or stove fire without a permit except in Forest Service developed camp or picnic grounds. No smoking unless in an enclosed vehicle or building, a developed recreation site, or while stopped in an area at least three feet in diameter that is barren or cleared of all flammable material. No operation of welding, acetylene, or other torch with an open flame. No operation or using any internal or external combustion engine without a spark arresting device properly installed, maintained and in effective working order.
Stage 2 Fire Restriction	No building, maintaining, attending or using open fire campfires or stove fires. No smoking unless in an enclosed vehicle or building, a developed recreation site, or within a three-foot diameter cleared to mineral soil. No operation of welding, acetylene, or other torch with an open flame. No operation or using any internal or external combustion engine without a spark arresting devise properly installed, maintained and in effective working order.

Source: NWS, 2018; National Interagency Fire Center, 2018.
(gacc.nifc.gov/.../r2ftc/documents/Fire_Restriction_Chart.pdf)

Yellowstone County has witnessed a number of large wildfires that have destroyed property and affected agricultural assets, scenic resources, and impacted air quality. Between 1992 and 2017, over 50 fires greater than 100 acres burned more than 250,000 acres in the county (**Table 4.3-2**).

Table 4.3-2. Wildfire Listings >100 Acres in Yellowstone County

Date	Name	Cause	Acres	Date	Name	Cause	Acres
10/27/1992	Country Club	Miscellaneous	100	8/9/2006	Mailbox	Lightning	2,100
8/3/1994	Border	Lightning	100	8/22/2006	Emerald Hills	Children	3,863
8/29/1995	Alec Roy	Smoking	824	8/1/2007	Cloudy Day	Miscellaneous	172
8/18/1996	Dover Ranch	Lightning	4,500	8/7/2007	Briarwood	Children	127
8/29/1996	Hibbard Crk	Lightning	175	8/19/2007	Ford Road	Powerlines	804
3/19/1997	Ca Road	Miscellaneous	2,000	4/18/2008	Buffalo Creek	Debris Burning	233
8/3/1997	Blue Creek	Equipment	104	7/1/2008	Rehberg Ranch	Lightning	1,120
8/11/1998	Yellowstone	Lightning	255	7/23/2008	Echo Canyon	Lightning	788
7/21/1999	Castle Butte	Lightning	300	8/22/2008	Dunn Mountain	Lightning	102,380
7/21/1999	Abel Ranch	Lightning	300	8/22/2011	Sando	Lightning	252
7/24/1999	Horse Thief	Lightning	3,500	8/29/2011	Canyon Creek	Lightning	2,560
8/20/1999	Pine Ridge	Lightning	3,900	7/3/2012	Dry Creek	Miscellaneous	2,240
8/30/1999	Wessel Ranch	Equipment	1,200	7/21/2012	Buffalo Creek	Lightning	985
7/16/2002	Steamboat	Powerline	2,921	8/21/2012	Highway 87 Fire	Unknown	4,630
7/23/2003	Wheathead	Lightning	2,554	9/2/2012	Hibbard	Miscellaneous	575
7/31/2003	Thistle	Lightning	300	3/22/2015	North Fork	Undefined	1,384
9/14/2003	Pine Hills	Campfire	284	3/27/2015	Ah-Nei	Debris Burning	200
6/9/2004	Ah-Nei	Lightning	250	3/28/2015	Andresen	Undefined	500
7/21/2005	Ballek	Equipment Use	2,100	3/28/2015	Ca Road	Arson	2,043
8/28/2005	Power	Powerline	370	6/18/2015	Pillar Creek	Lightning	108
6/19/2006	Round Butte	Lightning	295	9/26/2015	Bar Diamond	Undefined	465
7/4/2006	Phipps Park	Fireworks	172	7/27/2015	5 Mile	Unknown	627
7/12/2006	Bundy RR	Lightning	91,897	6/28/2016	Moser Dome	Unknown	960
7/19/2006	South Hills	Lightning	119	7/22/2016	Fritz	Lightning	1,356
7/26/2006	Homewood Pk	Equipment Use	120	7/20/2017	Sage Hills	Unknown	1,217

Source: DNRC, 2018; BLM, 2017; Notes: "- "indicates no data available; NR = Not Reported

Yellowstone County has not received a federal disaster declaration for wildfire; however, Fire Management Assistance Grants (FMAGs) were awarded in 2006 for the Emerald Hills Fire, in 2007

for the Ford Road Fire, and in 2011 for the Canyon Creek Fire. Newspaper accounts of several significant wildfires in Yellowstone County and the region are presented below.

June 25, 2012 - Montana's cattle industry saw a large part of their resources decimated with the Ash Creek Fire in the southeastern part of the state. The wildfire began June 25 from a lightning strike and swept through timber, grassland and wheat fields before it was stopped on July 5. The fire destroyed 120,000 acres of Forest Service land and 110,000 acres of private land including 18 homes.

The damage left 5,785 cows and 2,739 yearlings without adequate food or water. The wildfire wreaked havoc on the region's economically fragile livestock industry. Ranchers said they could be grappling with the devastation for years to come. Hay was in short supply. Hundreds of miles of fence and numerous corrals and water tanks had to be rebuilt. Thousands of head of displaced livestock had to be shipped to temporary pastures because of the lost grazing resource. (*Ash Creek Fire Engulfs Land, Cattle*, Cattle Business Weekly, July 19, 2012; *Dead Cattle, Devastation in Wake of Western Fires*, Billings Gazette, July 26, 2012).

August 2008 – Crews fighting the Dunn Mountain fire north of Billings were successful in protecting houses on the northwest corner of the fire. Over 40 residences and fire outbuilding were threatened by the 160 square mile fire which was caused by lightning. The fire burned over 102,383 acres, including one residence and four outbuildings. The fire cost nearly $2 million to suppress. (Flathead Beacon, *Dunn Mountain Fire 55 Percent Contained*, August 31, 2008; DES, 2018).

August 2006 - The Emerald Hills Fire, six miles east of Billings, destroyed two homes, a barn, and several outbuildings. A red flag warning was issued for high temperatures and low humidity on the fire which burned 3,863 acres. Over 200 homes in the Emerald Hill subdivision were evacuated and firefighters saved nine homes. The cause of the fire was determined to be children playing with matches (Missoulian, *Emerald Hills Fire Burns Homes, Outbuildings*, August 23, 2006).

The MHMP Planning Team provided some anecdotal information about wildfire in Yellowstone County. They stated there were over 260 wildfires in Yellowstone County in 2017. One, a 12,000-acre blaze on the edge of a subdivision. The Duck Creek Fire in 2016 burned two power lines and threatened a third which was the main power line to the CHS Refinery. Firefighter injuries are most common; however, in 2015 there was a citizen fatality when an individual who didn't evacuate became trapped and perished in the blaze. Each year there are several wildfires which take 2 to 3 days to control but most fires are extinguished rapidly.

Yellowstone County and Montana DNRC have primary responsibility for fire protection on all private and state lands within Yellowstone County. They have a reciprocal agreement with the BLM where both agencies exchange blocks of land for fire protection purposes. In the agreement, the state agrees to protect an agreed upon number of acres of federal land in exchange for the BLM protecting acres of private land within their boundaries. This agreement and coordination with the rural fire

departments provides for efficient wildland fire protection in Yellowstone County. Yellowstone County also has a mutual aid agreement with the Crow Tribe for wildland fire response.

Yellowstone County completed a Community Wildfire Protection Plan (CWPP) in 2006. This document is presented in **Appendix D**. Mitigation projects identified in the CWPP are incorporated herein by reference.

Vulnerability and Area of Impact

People and structures near wildfires are threatened unless adequately protected through evacuation or mitigation. Should fires occur, structures within the wildland-urban interface (WUI) are very vulnerable. The WUI is the zone where structures and other human development meet or intermingle with undeveloped wildland or vegetative fuels. A WUI exists anywhere that structures are located close to natural vegetation and where a fire can spread from vegetation to structures, or vice versa. A significant loss of life could occur to residents, firefighters, and others who are in the wildfire area and do not evacuate.

The West-Wide Wildfire Risk Assessment, completed for 17 western states in 2012, was designed to quantify the magnitude of the current wildfire problem and level of risk to communities and resources in the west with results comparable across geographic areas (Sanborn, 2012). Yellowstone County was rated the fifth highest county in Montana for *Wildland Development Areas*. This category describes where people are living in wildland areas as derived from the LandScan population count data (number of housing units per acre). Yellowstone County was listed as having 113,323 total acres in *Wildland Development Areas*. The MHMP Planning Team indicated that there is large amount of acreage in the WUI with many new subdivisions. Some of the most vulnerable areas include South Billings Blvd., Emerald Hills, Sage, and Huntington Hill subdivisions.

Regional electric infrastructure may pass through wildland and non-irrigated agricultural areas. Electric substations, transmission lines, fuel tanks, and radio transmission towers are not often equipped to withstand the heat from a wildfire. A wildfire could disrupt electricity or communications should this infrastructure be damaged.

Agriculture is one of the largest income-producing segments of the Yellowstone County economy and acres of cropland and grazing range represent a substantial investment each year. When the grazing range burns, producers often must reduce their livestock inventory. It can take many years for the pasture to recover and requires a significant financial investment to build back herds. Yellowstone County has thousands of acres of non-irrigated fields and rangeland scattered with sagebrush, juniper, and native grasses due to the generally arid climate. Rangeland and fallow fields in CRP also provide fuel for wildfire.

Health effects associated with forest fire smoke exposure has been studied by the Centers for Disease Control. Researchers found the risk of hospital admission for respiratory and circulatory illness was greater during periods of heavy smoke than unexposed areas (CDC, 2001). Smoke blows into Yellowstone County from the west. Montana Dept. of Environmental Quality (DEQ) sends health warnings to schools on hazardous smoke conditions recommending suspension of athletic events. Smoke also affects things like road safety and tourism.

Wildfires dramatically change landscape and ground conditions, which can lead to increased risk of flooding during heavy rains because the burned ground is unable to absorb the falling rain, producing runoff conditions. Because of this, even modest rainstorms over a burned area can result in flash flooding downstream.

Probability and Magnitude

Wildfire does not present a uniform risk across Yellowstone County with regard to structures. The wildfire hazard area used in the MHMP analysis consisted of the WUI layer from the 2018 State of Montana MHMP which was comprised of the U.S. Forest Service's *Community Zones Threatened by Large Fire* and the WUI layer from the Region 1 Healthy Forest Restoration Act, and by buffering interface communities with a population density equal or greater than 250 people by four miles. The Billings and Laurel city limits were excluded from the wildfire hazard area because they are protected by municipal fire departments. **Figures 5, 5A, and 5B** show the wildfire hazard area for Yellowstone County, Billings, and Laurel, respectively.

To complete the vulnerability analysis for this project, GIS was used to intersect the wildfire hazard area with both the critical facility and NRIS Structures dataset. Estimates of vulnerable population were calculated using U.S. Census county estimates. Exposure values are presented in **Table 4.3-3**. Building exposure reflects only the monetary structure value and does not account for improvements or personal effects that may be lost to wildfire.

Table 4.3-3. Yellowstone County Vulnerability Analysis; Wildfire

Category	Yellowstone Co. (balance)	Billings (City)	Laurel (City)	Broadview (Town)
Residential Property Exposure $	$3,270,400,363	$0	$0	$0
# Residences at Risk	16,266	0	0	0
Commercial, Industrial & Agricultural Property Exposure $	$668,543,220	$0	$0	$0
# Commercial, Industrial & Agricultural Properties at Risk	1,888	0	0	0
Critical Facilities Exposure Risk $	$204,137,575	$0	$0	$0
# Critical Facilities at Risk	117	0	0	0
Bridge Exposure $	$158,489,369	$0	$0	$0
# Bridges at Risk	265	0	0	0
Persons at Risk	24,619	0	0	0
Persons Under 18 at Risk	9,595	0	0	0
Persons Over 65 at Risk	7,106	0	0	0

GIS analysis of the wildfire risk to Yellowstone County indicates that 662,437 acres (39.1 percent) are within the wildfire hazard area. According to the vulnerability analysis, 16,266 residences, 1,888 commercial, industrial and agricultural buildings, and 117 critical facilities are located in the wildfire hazard area. The *Wildfire* section in **Appendix B-4** lists the critical facilities and bridges within wildfire hazard area.

1

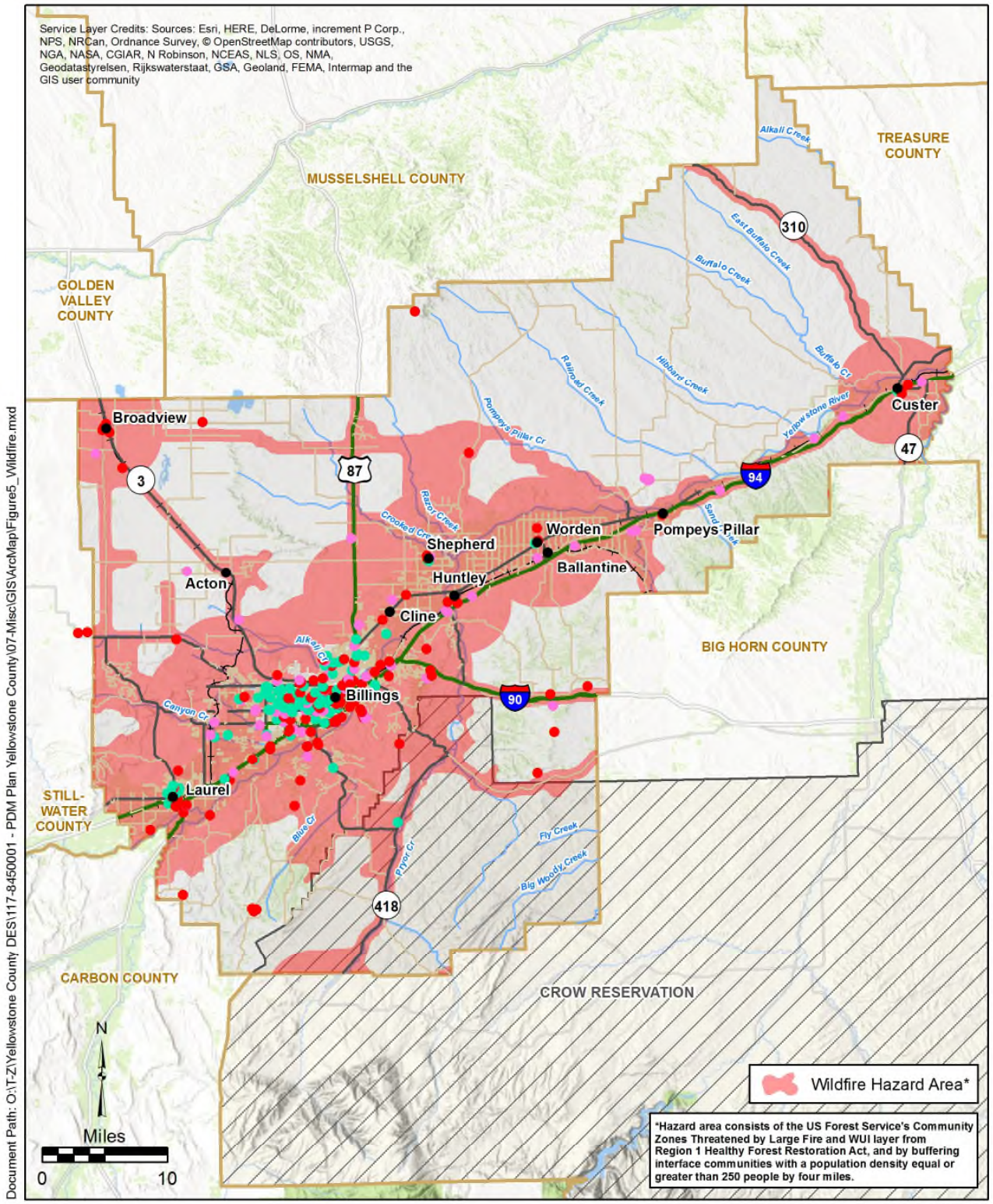


Figure 5
Wildfire Hazard Area
Yellowstone County, Montana
Multi-Hazard Mitigation Plan

1

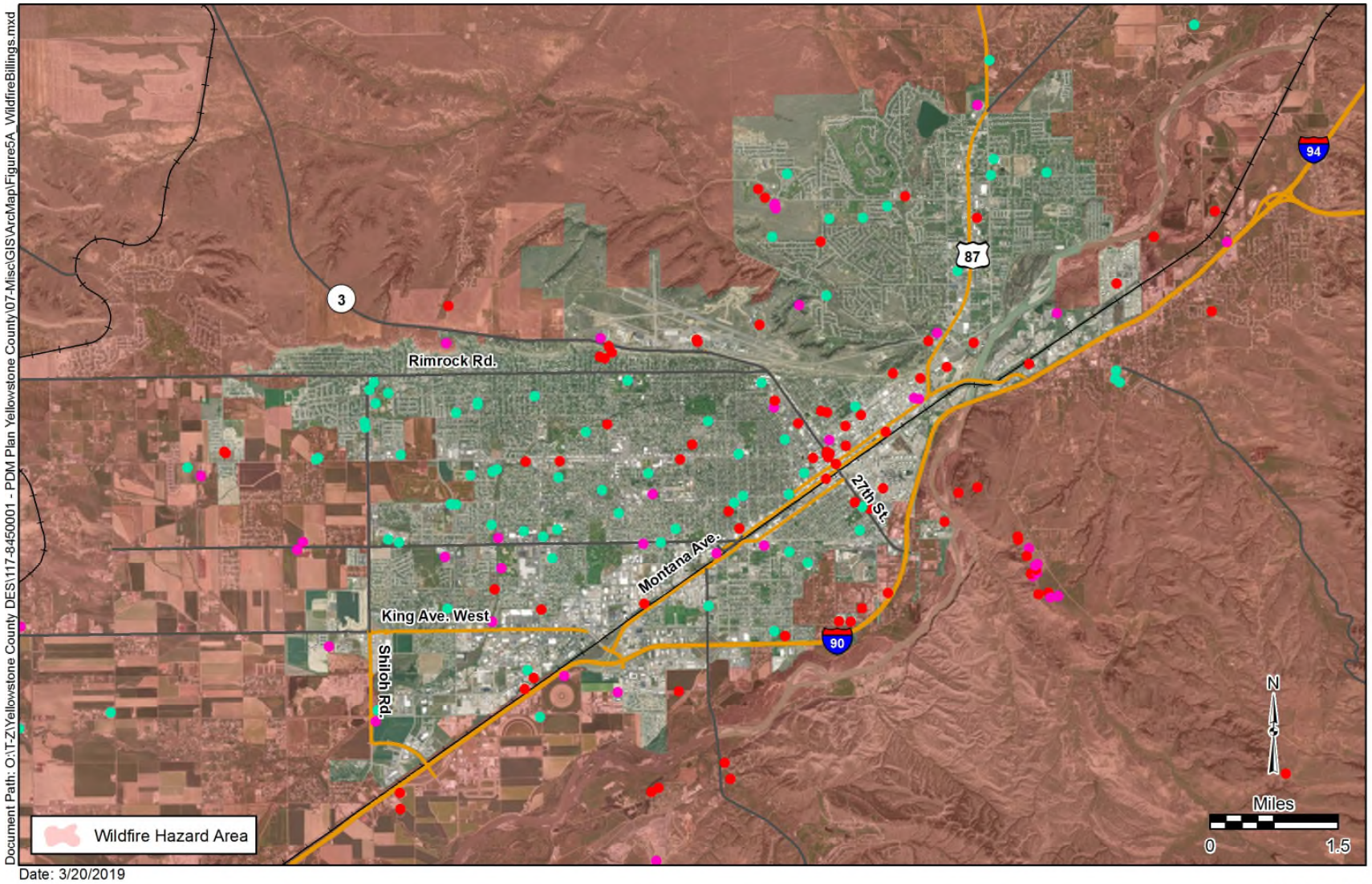


Figure 5A
Wildfire Hazard Area - Billings
Yellowstone County, Montana
Multi-Hazard Mitigation Plan

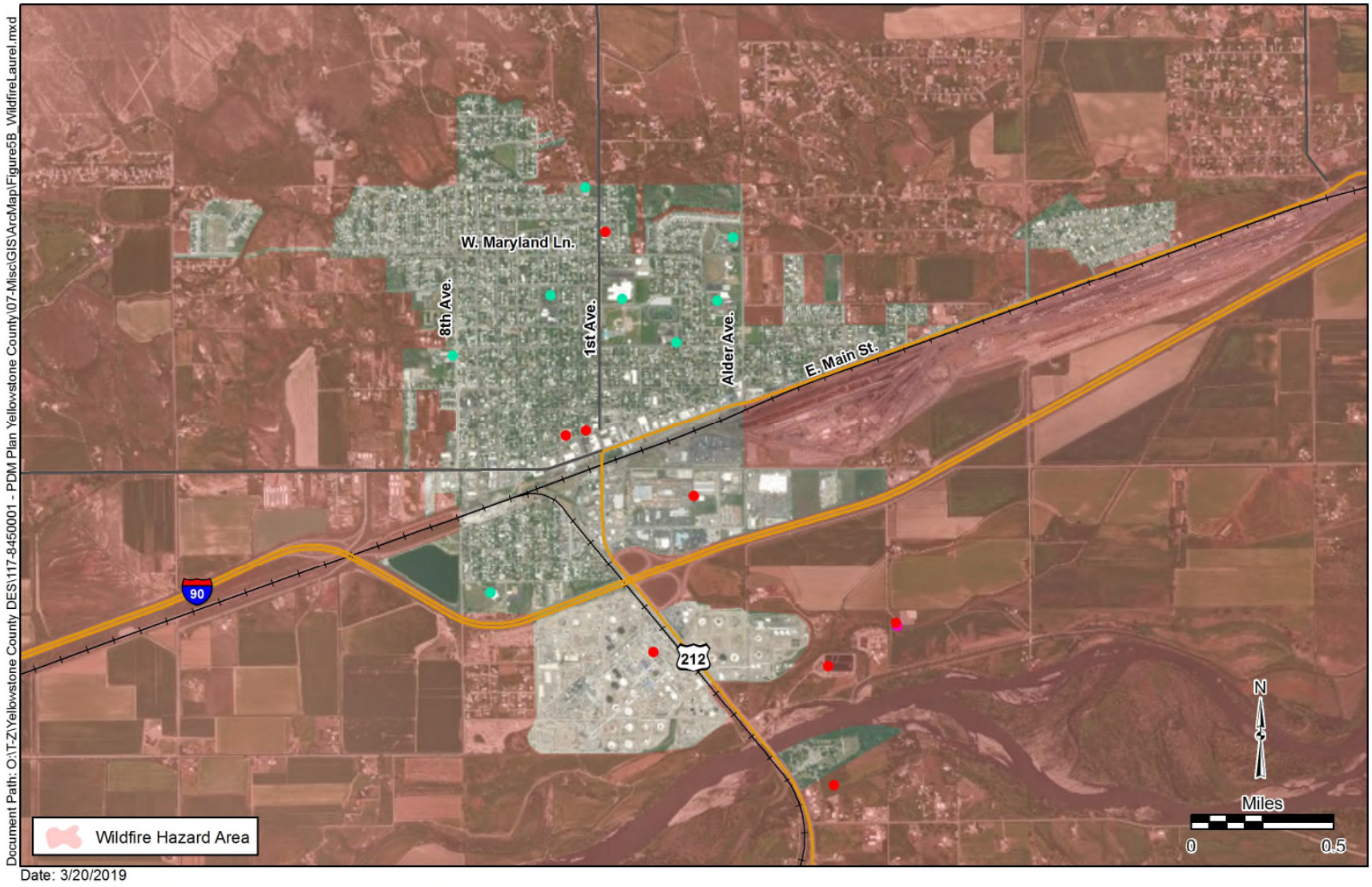


Figure 5B
Wildfire Hazard Area - Laurel
Yellowstone County, Montana
Multi-Hazard Mitigation Plan

Wildfires generally occur more than once per year in Yellowstone County and therefore, the probability of future events is rated as "highly likely". According to the 2012 Yellowstone County PDM Plan, there are over 1,000 properties outside incorporated areas in Yellowstone County that are located in areas where fuel treatment is necessary to reduce risks from wildfires. The MHMP Planning Team indicated that in general, two structures per year are lost to wildfire.

Wildfires have the potential to significantly impact the agricultural economy in Yellowstone County with the loss in production of grazing land, reduced livestock inventory, unharvested crops, and the loss of revenue to main street businesses. The MHMP Planning Team indicated that wildfire causes livestock loss and fence damage each year in Yellowstone County.

Future Development

Wildfire's impact to structures can be mitigated through comprehensive land use planning that includes housing development design, fuels management, and public education. Land use regulations can reduce the incidence of wildland fire by addressing defensible space, access for emergency vehicles, and on-site firefighting water supplies.

The Yellowstone County Subdivision Regulations describe fire protection requirements for all proposed subdivisions. They stipulate that all premises have a reasonable level of fire protection and life-safety for the public and firefighters, fire apparatus access roads, and an approved water supply capable of providing the required water flow for fire protection.

The subdivider must provide an approved pressurized fire hydrant system for fire suppression. This consists of a 10,000-gallon (for minor subdivisions) or 30,000-gallon (for major subdivisions) underground water storage tank with dry hydrant type fittings located not more than one-half road mile from the furthest structure in the subdivision.

Emergency secondary access roads must be designed to a minimum unobstructed surface width of not less than 20 feet and must be constructed to adequately support a 40-ton vehicle with a surface so as to provide all weather driving capabilities.

In the event that the proposed subdivision is located within the WUI, the subdivider must submit a plan to mitigate fire hazards in accordance with the fire department having jurisdiction.

Climate Change

Montana has been on a steady warming trend for decades, up over 3 degrees F since 1950, and all projections are that it will continue. The summer of 2017 was the second warmest on record since 1950 at 4 degrees F above average, and the persistent high temperatures coupled with the record lowest rainfall in July and August shifted the relatively wet conditions of spring into extreme drought by mid-summer followed by a severe wildfire season (Whitlock et.al., 2017).

The climate future with respect to wildfire will include additional warming with less precipitation in the summer months which set the stage for drier conditions and more fires. Over the next century, extreme heat days (above 90 degrees F) are projected to increase by an additional 5-35 days across the state. And, as a result of greater drought, forest fires will likely increase in size, frequency, and possibly severity.

In a given year, warmer weather and less precipitation dries out fuel loads and creates conditions for rapid fire spread. Fire records dating back decades to millennia show a clear link between warmer temperatures, lower precipitation and an increase in the number of fires and acres burned. Since 1986, wildfire seasons are nearly 80 days longer, with increases in large fires and fires at high wildfires are burning up to 10,000 feet (Whitlock et.al., 2017).

Larger, more severe, and more frequent fires may impact the people, property and critical facilities by increasing the risk from ignition from nearby fire sources. Climate change also may increase winds that spread fires. Faster fires are harder to contain, and thus are more likely to expand into residential neighborhoods.

Secondary impacts, such as air quality concerns and public health issues, will likely increase due to smoke from wildfire. Wildfire smoke generates a lot of particulate matter 2.5 microns or less in diameter. Those particles are so small, they easily bypass most of the human body's defenses and move directly from the lungs into the bloodstream. A recent study demonstrates that smoke waves are likely to be longer, more intense, and more frequent under climate change, which raises health, ecologic and economic concerns.

4.4 Ditch and Drain Failure

CPRI SCORE = 3.25

Description and History

Irrigation in the Yellowstone Valley and upper terraces played a critical role in the settlement history of Yellowstone County. The vast network of irrigation canals and ditches throughout the valley is testament to the perseverance of government and early settlers alike to make the county an agricultural center. Yellowstone County possesses a number of irrigation facilities constructed to deliver water to areas far removed from the original intake.

Twenty-two (23) ditches traverse Yellowstone County with seven of those ditches located within the Billings city limits. These ditches carry irrigation water for agriculture, private lawns and gardens, and city parks. Many of the ditches are open waterways with steep sides; however, there are several miles of culverts and pipes that carry ditch water beneath the city. In addition to ditches, there are also a series of open canals and piping that carry excess water away from the city during times of flooding, irrigation field runoff or for discharge of stormwater. These are called drains and are in various locations throughout the city. The ditches and drains provide a valuable function by providing agricultural irrigation, residential/commercial/public outdoor watering, groundwater recharge, trail corridors, and stormwater runoff collection (City of Billings, 2019).

The Billings-Bench Water Association (BBWA) is the most prominent canal in Billings. It is a gravity fed canal that is diverted from the Yellowstone River near Laurel. The canal consists of 63 miles of main canal and over 200 laterals, distribution canals, and two storage reservoirs. It runs 20 miles through the City of Billings, somewhat parallel to Poly Drive before disappearing through an 1,800-foot tunnel in the rimrocks and Alkali Creek, then north through Billings Heights before discharging into Fivemile Creek. Ninety (90) percent of the farms from the Heights to Shepherd depend on the BBWA for irrigation. The value of the crops along the canal is in the millions of dollars. The BBWA has 1,463 customers and the canal waters the greens of three golf courses and lawns at many adjoining residences. Several other ditches in the Billings area are described below.

Hi-Line Ditch is 4.5 miles long and flows between Poly Drive and Rimrock Road until it turns toward Wisconsin Avenue at Selvig Lane and through Pioneer Park. Grey Eagle Ditch runs along the Southside for just over a mile. Big Ditch flows across northwest Billings for a mile before discharging into a storm sewer at Nina Clare Road. In West Billings, near Rimrock Road, Cove Ditch connects into the storm sewer system west of Shiloh Road. Suburban Ditch, in the southeast part of Billings, stretches for 2,600 feet.

A second network composed of two and a half miles of open ditches and three miles of covered pipe, carry excess water away. The main drains include the Arnold Drain located in between Shiloh and 24th Street north of Broadwater, Kratz Drain, City-County Drain and Yegen Drain, all located on the southside of Billings. Two miles of Hogan Slough, which is mostly located west of the city, flow through the city. **Figures 6, 6A, 6B, and 6C** show the ditches and drains in Yellowstone County, Billings, and Laurel, respectively.

The ditches and drains are controlled and maintained through easements or prescriptive rights by private ditch companies. The City of Billings does not have any ownership other than repair and replacement of street culvert crossings.

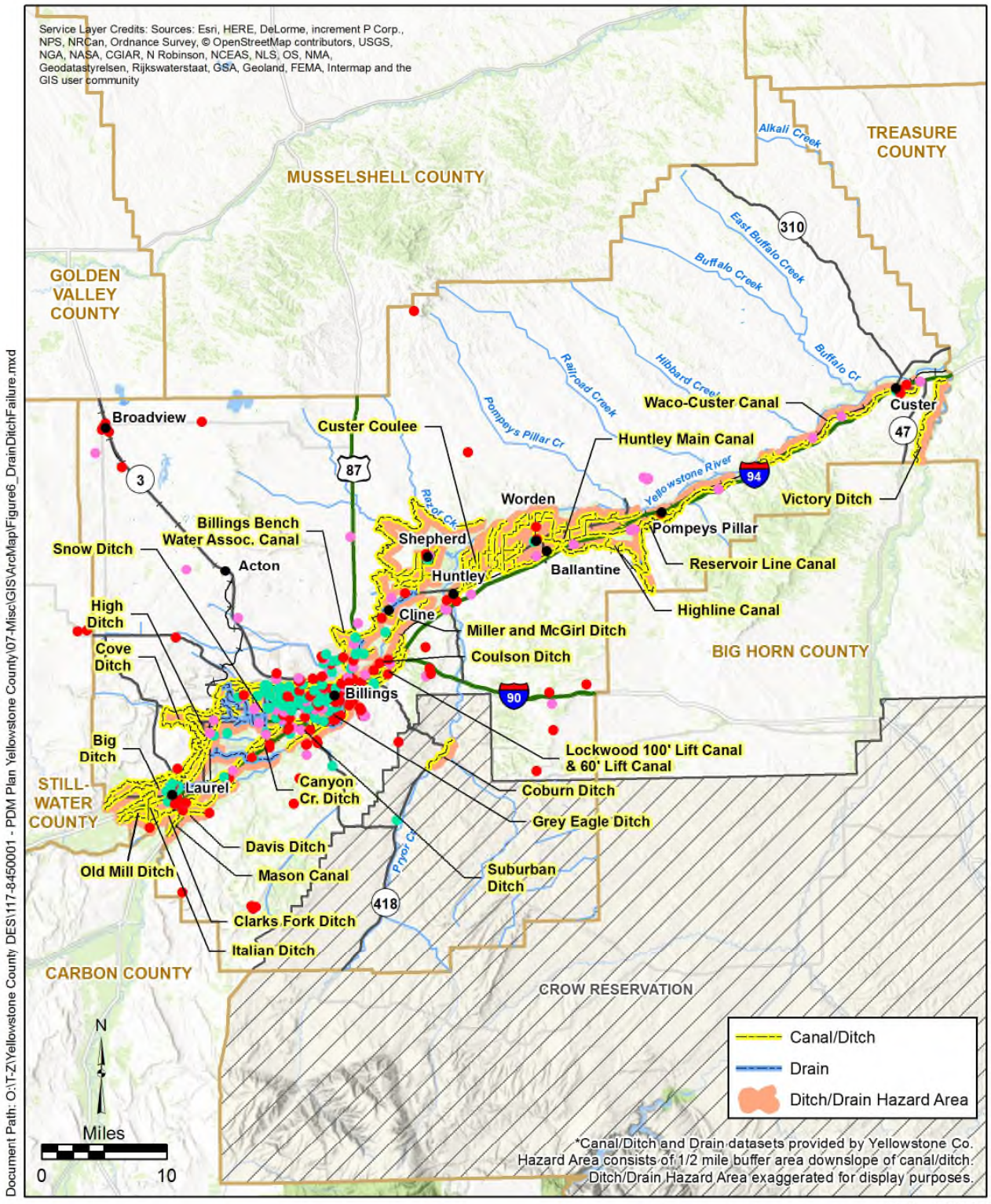


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Figure 6
Ditch and Drain Hazard Area
Yellowstone County, Montana
Multi-Hazard Mitigation Plan

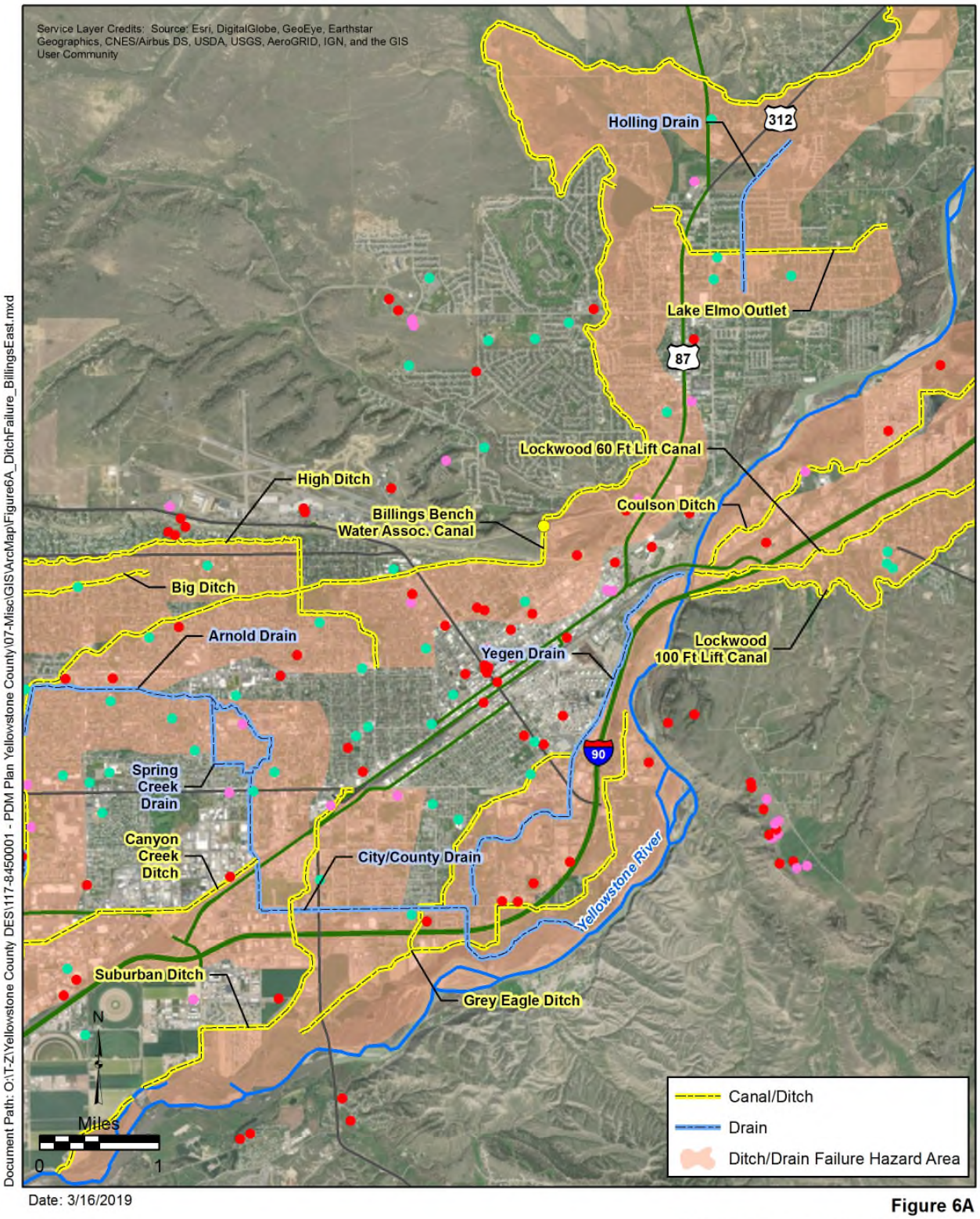

Figure 6A
Ditch and Drain Hazard Area - Billings East
Yellowstone County, Montana
Multi-Hazard Mitigation Plan

1

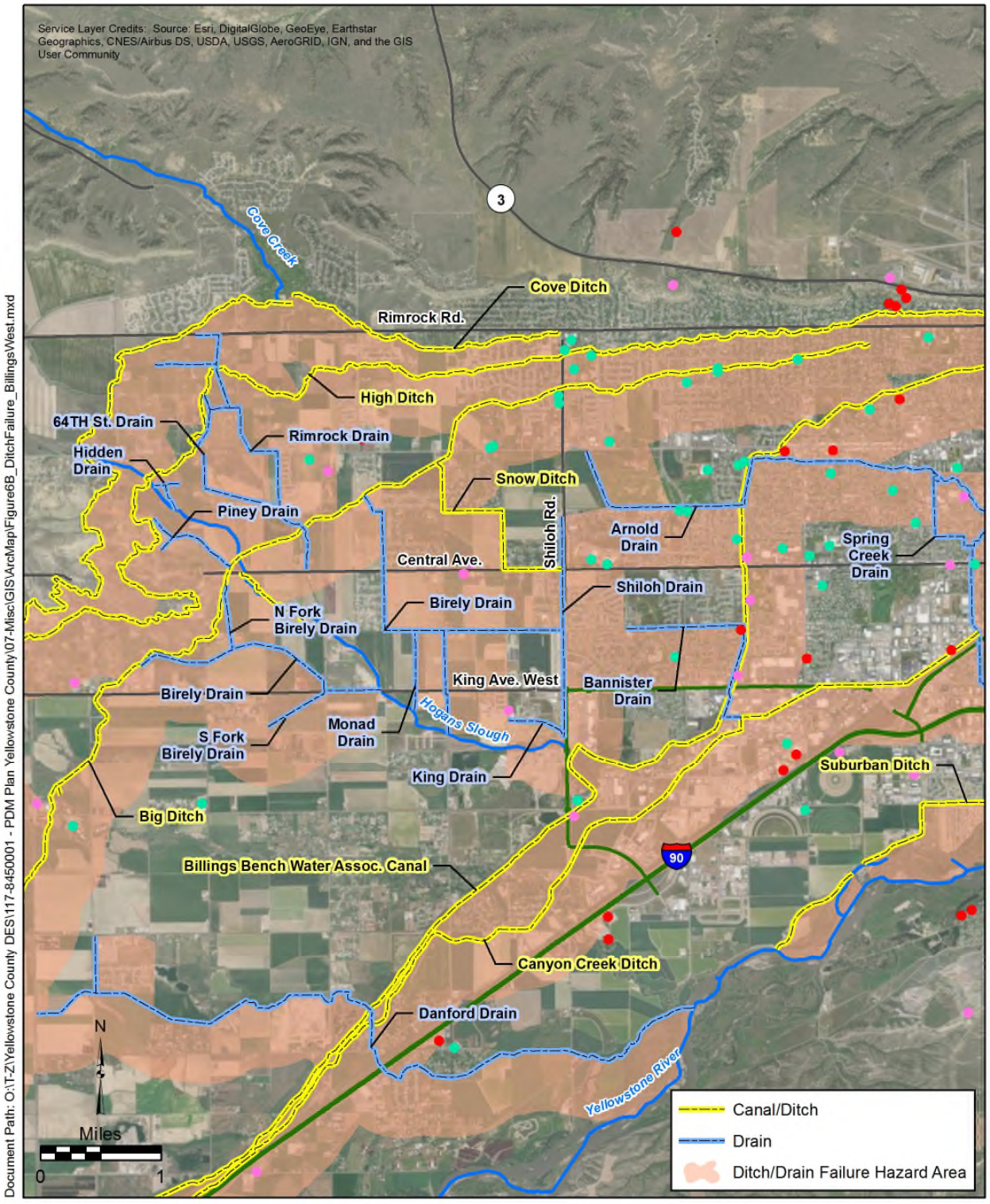

Figure 6B
Ditch and Drain Hazard Area - Billings West
Yellowstone County, Montana
Multi-Hazard Mitigation Plan

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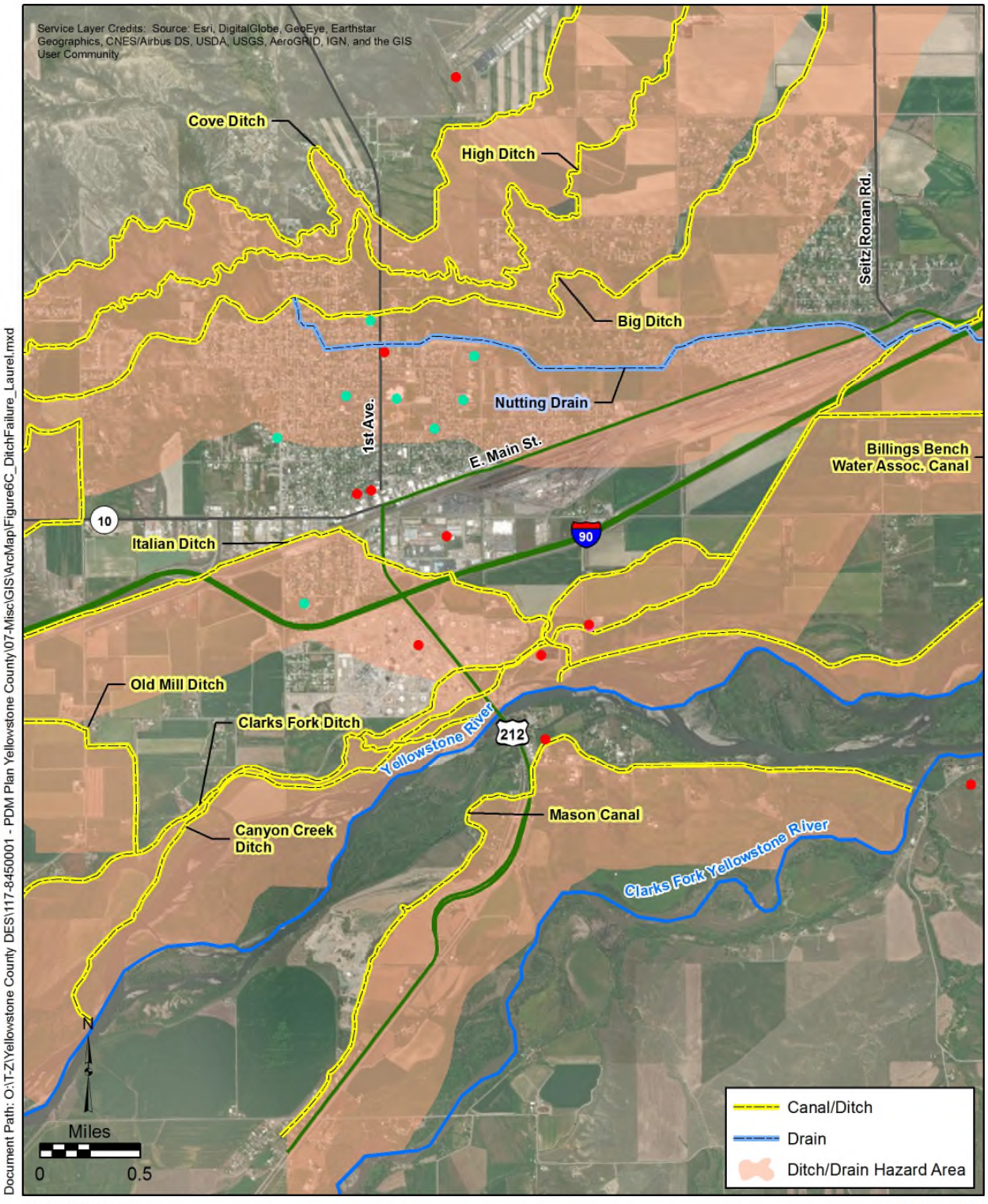

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Figure 6C
Ditch and Drain Hazard Area - Laurel
Yellowstone County, Montana
Multi-Hazard Mitigation Plan

Legend

- Critical Facility
- School/Senior Facility
- Cell Tower
- Primary Route
- Secondary Route
- River

1

In *A History of the Billings-Bench Water Association and its Predecessors 1903-1934*, it is noted that breaks have occurred all along the canal for a number of causes. Some causes were from cloud bursts, weak spots giving away, sliding of talus slope carrying the canal along with it, gopher holes, and undetermined causes. Some breaks haven't resulted in much damage, but a few have been very costly. When water has broken out of the canal it has usually happened during the period of its heaviest load when the demand for water has been heaviest for irrigation and when the weather was the hottest. These breaks have always caused inconvenience and crops have always suffered some loss (Dove, 1984). Several ditch failures in the Billings area, are described below.

July 19th, 1924 - At a point about half way between 27th Street and the Rim Tunnel a break occurred in the BBWA ditch at about 4:20 p.m. The lower bank slid out suddenly without any warning and released the entire heavy head of water. This break was so far west that as the water spread down the slope it washed out much valuable garden produce, then spreading on southward across the railroad spur, it washed over the city park and a few city blocks damaging gardens, lawns, and house foundations. The break was quickly repaired by placing a wooden flume so that water was out of the ditch but a short time. Within a year or so the flume was removed, the canal set further back into the hillside and the canal sides and bottom lined with concrete (Dove, 1984).

July 21st, 1933 - The BBWA canal gave away at about 4:00 a.m. It was unknown what caused this break as at this point the canal bad been built up from bedrock with dry packed soil with special attention being given to strength as a previous break had occurred here. Also, the canal was lined with reinforced gunnite. Serious impacts occurred below the ditch on the more level ground and in the city where the park, business and residence properties were damaged. The water washed down silt and rock to a depth of 30 inches in some places ruining gardens and shrubs. All basements were filled, and foundations ruined, chickens, rabbits and most things that would float were washed away and general destruction resulted (Dove, 1984).

June 1937 – The flood of 1937 was deemed a "1,000-year" flood. For downtown Billings, the worst blow struck when the main canal of the BBWA ditch broke above Hilands Golf Club. The water quickly poured through Pioneer Park and fanned out to submerge what was then the northwest residential area of Billings and the downtown under knee-high flood waters. Although the ditch inlet was closed, the canal continued to act as a conduit, funneling floodwaters towards downtown Billings, causing an estimated $2 million in property damage. Alkali Creek's flood waters tore out the BBWA's elevated flume, which carried water through a tunnel under the Rims to the Heights. (Billings Gazette, *The Flood of '37: Billings' Worst Natural Disaster Inundated Homes, Businesses,* June 5, 2004).

August 22, 1965 - Water from a cloudburst broke irrigation ditches above Laurel. Costs included $113,000 damage to Laurel's business district, $56,000 damage to streets, $106,000 damage to residential areas, and $55,000 in damage to rural areas (Atkins, 2012).

April 22, 2006 – A 1930s-era culvert carrying water from the High Ditch, beneath the BBWA canal collapsed. The collapse sent BBWA water rushing into a storm drain system than runs through Hilands Golf Club, behind Highland Elementary School, beneath Virginia Lane and into Pioneer Park. The breach occurred around 4 a.m. south of Poly Drive at the north edge of the golf course. The water was shut off at the Laurel headgate at about 6:30a.m., about the time area residents woke up to backyards full of water. The water ran across the golf course into a drainage ditch, which overflowed. The water continued into the city's stormwater system, which drains into Pioneer Park. (Missoulian,

Billings Culvert Collapses, Flooding Golf Course, Seven Houses, April 23, 2006; Billings Gazette, *Parties Pass Blame for Flood Damage*, May 18, 2006).

August 2016 - The BBWA canal blew through its banks, carving a barn-sized crater in the landscape and blowing through a residential road as it rushed to nearby Alkali Creek at 350 cubic feet per second (cfs). The ditch failure cut off irrigation during the height of the growing season. Bulldozers were used to scrape up dirt from sandstone hillsides above the breach to amass enough earth to fill the chasm before reshaping the channel and lining it with a waterproof barrier. The repair took one week to complete and cost over $1 million. (Billings Gazette, *Millions of Dollars' Worth of Crops on the Line as BBWA Works to Repair Canal Breach*, August 9, 2016).

Washout in an irrigation canal floods Billings Heights Neighborhood. Photo: Billings Gazette

Vulnerability and Area of Impact

The MHMP Planning Team stated that irrigation ditches in Yellowstone County are considered critical facilities because they support the county's agriculture economy. They were constructed over 100 years ago when there was little development surrounding Billings and now when they breach they affect residential areas due to growth in the valley. The Planning Team indicated that the ditch failure hazard is difficult to mitigate because the infrastructure supports agriculture and their water rights supersede other water usage. Most homes downstream from ditches are not in mapped floodplains and homeowners don't have flood insurance.

After the ditch failure in 2016, the BBWA received a grant to investigate how to best limit seepage from the canal to protect against future breaching. Approximately 11.5 miles of the main canal that runs through the City of Billings was evaluated, from the crossing at Shiloh Road to the crossing at Shamrock Lane. The canal was evaluated to determine flow changes, seepage points, breach concerns, and to develop a hydrology and hydraulics model to identify the most beneficial locations for future lining projects (WWC Engineering, 2018). This report provided the BBWA with the information necessary to develop a prioritized list for improvements to the main canal to reduce the risk of breaching inside of the City limits of Billings. **Appendix D** includes the investigation report in its entirety. Results of the investigation are summarized below and incorporated herein as mitigation actions.

- The study identified two minimum flow points that would cause canal overtopping: near 16th Street West and Colton Boulevard (canal Segment 6-7), which passes 450 cfs; and, the Rim Tunnel, which passes 372 cfs.
- The BBWA Canal is at risk of breaching from normal canal operations due to tree roots creating piping failures. By implementing a Tree Management Plan (including construction of a french drain) and canal lining, breaching concerns could be mitigated.

- Several sections of the main canal have degraded over time resulting in decreased capacity. Recommended maintenance projects include: Rim Tunnel maintenance; Alkali Creek Siphon maintenance; and, Segment 6-7 maintenance.
- Actions that would increase the protection of the BBWA Canal from breaching during a major storm event include: an emergency drain to Lillis Park; an emergency drain to Hogans Slough; increase discharge capacity at the Canyon Creek Flume; overflow at Alkali Creek Siphon; overflow to Alkali Creek after siphon; and, multiple discharge locations (WWC Engineering, 2018).

The study identified that improvements to the canal should be first made for protection of breaching from normal conditions, followed by projects to increase degraded capacity of canal sections, and lastly, protection from uncontrolled flow conditions (i.e., blockages in the canal or storm events in excess of a 100-year event).

Unstable rock above BBWA Rim Tunnel carrying water 1,800-feet under Rims to Billings Heights.

Additional concerns associated with the BBWA canal include unstable rocks above 14th Street that could fall and plug the Rim Tunnel. An event of this type could block the ditch and flood the City of Billings. On the slope of the Rims directly above the tunnel entrance, there are two enormous, partly detached slabs of sandstone with a capstone on top, straddling the two slabs. To the left of the rocks there are some rusty cables tethered to the face of the Rims on one side and to one of the giant slabs on the other. There apparently were installed to prevent some other unstable sandstone from sloughing off and to secure the slab itself.

The Washington Street drain in Billings is another vulnerable area. The river channel near the city's drain has moved significantly during the past 50 years, bringing water closer to the drain outlet. It was determined that when the Yellowstone River was in any kind of flood stage, the river water backed up into the drain and the stormwater pouring out of the city simply stayed in the ditch. There is nowhere for the stormwater to go when the river is full. To remediate this situation, the city plans to lay new pipe and move the drain a half mile downriver, where it will empty into the Yellowstone 10 feet lower than the current drain. The new 10-foot drop will help move water out of the drainage ditch quicker and keep water moving so that it no longer sits in the ditch for days or weeks at a time. Along with the new pipe and drain, crews plan to install a flood control gate near the current drain at Washington Street to help stop back flows coming in from the river when it's in flood stage, and to better control the water that moves through the ditch. (Billings Gazette, *Billings Hopes It Has Found a Way to Get Storm Water to the River Faster*, November 27, 2018).

Hazard impact maps were developed for the ditch and drain failure hazard by utilizing GIS software to buffer all ditches and drains by 0.5 mile. Contour lines were added to determine downslope sides of the ditches and drains. **Figure 6 through 6C** present the hazard areas used in the MHMP ditch and drain failure analysis within Yellowstone County, Billings, and Laurel, respectively.

Probability and Magnitude

To complete the vulnerability analysis for this project, GIS was used to intersect the ditch and drain failure hazard area with both the critical facility and NRIS Structures dataset. Estimates of vulnerable population were calculated using U.S. Census county estimates. Exposure values are presented in

Table 4.4-1. Building exposure reflects only the monetary structure value and does not account for improvements or personal effects that may be lost to ditch and drain failure.

Table 4.4-1. Yellowstone County Vulnerability Analysis; Ditch and Drain Failure

Category	Yellowstone Co. (balance)	Billings (City)	Laurel (City)	Broadview (Town)
Residential Property Exposure $	$1,279,579,081	$3,788,740,357	$315,103,298	$0
# Residences at Risk	7,466	21,656	2,124	0
Commercial, Industrial & Agricultural Property Exposure $	$318,898,362	$1,969,989,740	$182,402,107	$0
# Commercial, Industrial & Agricultural Properties at Risk	949	1,602	19	0
Critical Facilities Exposure Risk $	$198,536,404	$423,492,729	$92,587,026	$0
# Critical Facilities at Risk	48	61	10	0
Bridge Exposure $	$63,953,589	$50,569,900	$5,406,600	$0
# Bridges at Risk	116	43	4	0
Persons at Risk	11421	33129	3314	0
Persons Under 18 at Risk	4,451	12,911	1,291	0
Persons Over 65 at Risk	3150	10459	1218	0

The GIS analysis indicates that about 112,093 acres in Yellowstone County (6.6 percent) are located within the ditch and drain failure impact area including: 31,246 residences, 2,570 commercial, industrial and agricultural buildings, and 119 critical facilities. The *Ditch and Drain Failure* section in **Appendix B-4** presents supporting documentation from the risk assessment including the critical facilities and bridges located in the ditch and drain failure hazard area.

Based on the frequency of past events, the probability of irrigation ditch failure in Yellowstone County is rated as "likely", an event that occurs more than once a decade but not every year.

Future Development

As residential development continues in the Yellowstone River Valley, the risk that ditch and drain failure will cause property loss increases. Neither Yellowstone County nor the City of Billings have addressed ditch and drain failure in their growth policies, subdivision regulations, or zoning ordinances.

Climate Change

Many scientists agree that climate change will increase heavy rainfall and storms across the U.S., which will result in elevated water levels that may lead to a higher frequency of flooding. As such, these conditions have the potential to make ditch and drain failure more frequent. See the climate change discussion under *Flooding* for additional information.

4.5 Terrorism, Violence, Civil Unrest, and Cyber Security

CPRI SCORES
TERRORISM, VIOLENCE, CIVIL UNREST = 1.8
CYBER SECURITY = 3.2

Description and History

Terrorism is defined in the Code of Federal Regulations as "the unlawful use of force and violence against persons or property to intimidate or coerce a government, the civilian population, or any segment thereof, in furtherance of political or social objectives". Terrorists look for visible targets where they can avoid detection before or after an attack such as international airports, large cities, major international events, resorts, and high-profile landmarks. Bombings involving detonated and undetonated explosive devices, tear gas, and pipe and fire bombs have been the most frequently-used terrorist method in the United States. Other possible methods include attacks on transportation routes, utilities, or other public services, or incidents involving chemical or biological agents.

Lone gunman shootings (active shooters) are another form of terrorism. In the U.S., lone gunman shootings have occurred at schools, movie theaters, night clubs, concerts, and other locations. Most lone gunman shootings occur where a specific place was deliberately selected as the location for the attack and was not simply a random site of opportunity. These shootings have sparked a political debate over gun violence, whether firearms should be allowed in the classroom and whether there should be stricter gun control. There have been no lone gunman shootings in Yellowstone County.

Violent protests and riots resulting from police brutality against African Americans gained widespread notoriety in the 2010s, and the tensions ignited after particular incidents such as the killings of Trayvon Martin (2012), Michael Brown, Jr (2014) and Freddie Gray (2015). The Black Lives Matter Movement, originating in the African-American community in 2013, campaigns against violence and systemic racism toward black people. The movement regularly protests police killings of black people and broader issues of racial profiling, police brutality, and racial inequality in the United States' criminal justice system. Due to the demographics of Yellowstone County, racial violence is not a great risk.

According to the Southern Poverty Law Center (SPLC, 2018), an organization devoted to tracking hate groups in the United States, the number of anti-government groups in Montana held steady in 2018 while anti-Muslim activity surged. Of the 953 hate organizations identified in the latest report, eight are located in Montana, including several white nationalist, anti-Muslim and anti-government groups. Those groups with state-wide presence include the American Security Rally of Montana (anti-Muslim), The Daily Storm (neo-Nazi), American Freedom Party (White Nationalist), and ACT for American (anti-Muslim). There were no hate groups identified specifically in Yellowstone County.

Civil unrest typically occurs when large groups, organizations, or distraught individuals take action with potentially disastrous or disruptive results. Civil unrest can be the product of another event that creates panic in the community.

Energy development in eastern Montana has made terrorism, violence, and civil unrest an emerging hazard. Below are descriptions of a pipeline protest in Billings, and regional situations that have spurred violence related to energy development.

Billings Pipeline Protest – On December 1, 2016, more than 50 people gathered in downtown Billings to protest the Dakota Access Pipeline and march through the downtown Well Fargo bank building in

an attempt to pressure the banking company to withdraw funding from the project. Before the protest, participants circled the Yellowstone County Courthouse lawn for a sacred pipe blessing, smudging ceremony and prayer. An effigy of a black snake was present at the protest and eventually held aloft by several people as protesters walked through the Wells Fargo lobby and sang protest songs before exiting onto N. 27th Street. The protest was part of a national call to action from the Standing Rock Sioux Tribe. (Billings Gazette, *Group Protests Dakota Access Pipeline at Wells Fargo in Downtown Billings*, December 1, 2016).

Pipeline Man Camps - The Keystone XL pipeline will cross 282 miles in sparsely populated eastern Montana. When construction gets underway, there will be as many as 800 workers on a stretch of pipeline. Most of them will be staying at "man camps" set up by contractors working for the pipeline company. Man camps intended for Montana include one north of Fort Peck in Valley County, another near Circle in McCone County, and one near the western edge of Baker in Fallon County. Keystone plans to construct the pipeline in South Dakota and Montana over two years, broken into seven pipeline spreads. Depending on the ultimate sequence of construction, the camps will either be in place for one or both years. Although they really don't know what to expect from the presence of so many workers, the influx would temporarily double or triple the number of people in the area and could stress existing resources. (Billings Gazette, *Construction Workers Would Need to Live in Man Camps*, February 5, 2012).

Oil Field Violence - The Bakken Formation – tens of thousands of square miles of oil-bearing shale under the prairies of western North Dakota, eastern Montana and part of Canada – was touted as a modern-day gold rush. In just five years, the region went from producing about 200,00 barrels to 1.1 million barrels of oil a day, making North Dakota the No. 2 oil-producing state and luring thousands of workers from around the country. The arrival of highly paid oil workers living in sprawling "man camps" with limited spending opportunities led to a crime wave – including murders, aggravated assaults, rapes, human trafficking and robbers – fueled by a huge market for illegal drugs, primarily heroin and methamphetamine. (The Washington Post, *Dark Side of the Boom*, September 28, 2014).

The MHMP Planning Team described other incidents of terrorism and violence that have occurred in Yellowstone County. The most noteworthy were hoaxes of anthrax and bomb threats to schools and government buildings. A recent incident in Billings is described below.

Billings Bomb Scare – On October 29, 2018, a pair of devices made to look like bombs and left outside the KTVQ building were detonated by the Billings Police Dept. bomb squad. The KTVQ News Director encountered a man speaking incoherently who left a clear tote at the station's east entrance. Police found "religious writing" on the tote and saw a device inside the tote and another outside the tote that were consistent with an improvised explosive device. A robot was used to further examine the devices and then disarm them. (Billings Gazette, *Bomb Squad Detonates "Hoax Device" at KTVQ Building in Downtown Billings*, October 29, 2018.

Within the last 25 years there have been two teachers' strikes that had incidents of violence against those who crossed the picket lines and those that were vocal about their opinions. Within the last 15 years, two union-trucking industry strikes have had incidents of violence in Yellowstone County. The MHMP Planning Team rated the risk of civil unrest in Yellowstone County as "high" in a hazard assessment completed by the U.S. Dept. of Homeland Security. It was also noted that terrorism threats in the county would likely be home grown.

No disaster declarations have been issued to Yellowstone County for terrorism, violence, or civil unrest. However, several emergency declarations were issued in Montana to activate the National Guard to assist with these types of situations (**Table 4.5-1**).

Table 4.5-1. Montana Terrorism, Violence and Civil Unrest Emergency Declarations

Declaration	Date	Magnitude	Comments
N/A	Jan-Feb 1979	Activation of National Guard for State Institutions strike	No casualties; $1,393,714 costs
State EO-03-91	April 1991	Activation of National Guard and Assistance Statewide for State Institutions Strike	No casualties
State EO-10-96	April 23,1996	Incident Response for Anniversary of Waco and Oklahoma City Incidents	No casualties; $4,368 costs
State EO-23-01	September 11, 2001	Emergency Declaration following the World Trade Center and Pentagon terrorist attacks	No casualties
State EO 26-01	September 28, 2001	National Guard activation to provide personnel for airport security	No casualties

Source: DES, 2018.

Cyberterrorism is the use of information technology by terrorist groups and individuals to further their agenda. This can include use of information technology to organize and execute attacks against networks, computer systems and telecommunications infrastructures, or for exchanging information or making threats electronically. Examples are hacking into computer systems, introducing viruses to vulnerable networks, website defacing, or terroristic threats made via electronic communication.

Public interest in cyberterrorism began in the late 1980s with the widespread use of the internet. As 2000 approached, the fear and uncertainty about the millennium bug heightened, as did the potential for attacks by cyber terrorists. The terrorist attacks on September 11, 2001 and the ensuing "War on Terror" led to further media coverage of the potential threats of cyberterrorism in the years following. The possibility of a large attack making use of computer networks to sabotage critical infrastructure with the aim of putting human lives in jeopardy or causing disruption on a national scale, either directly or by disruption of the national economy, has been a concern for the past decade.

Internet fraud is the use of internet services or software with internet access to defraud victims or to otherwise take advantage of them; for example, stealing personal information that leads to identity theft. A very common form of internet fraud is the distribution of rogue security software. The most widespread internet and email scam today is called phishing, where digital thieves lure you into divulging your password info through convincing emails and web pages. These phishing emails and web pages resemble legitimate credit authorities. They frighten or entice you into visiting a phony web page and entering your ID and password. Commonly, the guise is an urgent need to "confirm your identity". They will even offer you a story of how your account has been attacked by hackers to lure you into entering your confidential information. The email message will require you to click on a link. But instead of leading you to the real login site, the link will redirect you to a fake website where you may innocently enter your ID and password. This information is intercepted by the scammers, who later access your account and extort money.

Senior citizens are also vulnerable to health care scams. Scammers will call as healthcare or Medicare representatives to gain access to their personal or contact information. They will use their contact information to call seniors back at a later date and say they spoke with their daughter, son or other

relative and that it's OK to give them social security numbers, driver's license numbers or other personal information.

Con artists are also creating devious schemes to prey on retired persons and their accumulated wealth. Senior citizens are receiving phone calls from scammers who purport to be IRS agents. They claim to be calling about unpaid back taxes and proceed to threaten the senior citizen with arrest, lawsuits, suspension of their driver's license and more. Tax-refund fraud hit $21 billion in 2016. All it takes to file a false return is a name, date of birth, and social security number; the type of information that is commonly taken when health care insurers are hacked.

The MHMP Planning Team described recent cyber threats at the Lockwood Fire Dept., the Yellowstone Art Museum, and Billings Clinic all involving ransomware or email viruses shutting down computer systems. The art museum had four cyber-attacks in 18 months; one which took down their computer system for three weeks. Typically, once the effected computer is isolated the system can be back online in 48 hours. However, file recovery takes much longer. The Yellowstone County Information Technology Dept. is constantly warding off threats to cyber security.

Vulnerability and Area of Impact

The origins and targets for terrorism and civil unrest are difficult to predict. Individuals or groups that feel oppressed on any issue can resort to violent acts to inflict harm and damage in an attempt to gain publicity or affect policy. Montana has traditionally attracted activist/extremist individuals and groups because of its low population and large geographic area. Groups active in Montana vary from white supremacists to single issue groups, such as environmental extremists. According to the Southern Poverty Law Center, an organization that tracks hate groups in the U.S., no hate groups are currently active in Yellowstone County.

The effects of civil unrest and violence are typically felt by the population. The greatest risk is to human lives during times of unrest. Looting is commonly found in association with these types of events. Therefore, this hazard places both the population and property at risk. Urban areas and places of public gathering are generally areas of greatest risk.

The vulnerability of local communities to a breach in cyber security is real and presents a serious business risk to government operations. Attacks have the potential to cripple vital government services and damage public infrastructure. All government agencies hold valuable or sensitive material, including citizen records, financial information and procurement data. Therefore, everyone is a target. And in today's highly interconnected world, each agency, no matter how small, is a stepping stone to another. So even a seemingly minor breach can have wide-ranging implications. (Governing Institute, 2017).

Agencies also are under nearly constant assault. Hackers know that state and local governments often lag behind commercial entities in cyber security readiness. Consequently, the number of attackers probing municipal systems for vulnerabilities is exploding; everyone from small-time crooks equipped with black-market ransomware kits, to nation states and organized crime syndicates armed with sophisticated cyber weapons. (Governing Institute, 2017).

The threats are wide-spread. Small towns and school districts are hit with ransomware that shuts down computer systems until they make a payment. Thieves steal citizen identities and financial

information from state agency databases. Water authorities endure surgical strikes that use specialized computer code to destroy water pumps. (Governing Institute, 2017).

Healthcare also facies varied cyber security threats that continue to evolve and become more intricate. This includes but is not limited to insider threats, poorly secured web portals, improper data handling, and under-regulated medical data mining. Medical data is more valuable to attackers than financial data, and it can easily be stolen from vulnerable web portals.

Probability and Magnitude

The probability of terrorism, violence, a cyber breach, or civil unrest in Yellowstone County directly is difficult to determine. The county is not considered a specific terrorist target nor is it an area of high risk for civil unrest. As with any area, a shooting by a disgruntled person, employee, or student is always possible. A large-scale attack cannot be ruled out, and therefore, a small probability exists. Of greater probability is a national terrorist incident or cyber-attack that has an indirect effect on Yellowstone County through its economy.

The effects of terrorism can vary significantly from loss of life and injuries to property damage and disruptions in services such as electricity, water supply, public transportation, and communications. Cyber terrorism could involve destroying or remotely disrupting government computer networks, critical civilian systems such as financial networks or mass media, or using computer networks to take over machines that control traffic lights, power plants or dams. If cyber-terrorists managed to disrupt financial markets or media broadcasts, an attack could undermine confidence and cause panic. Attacks could also involve remotely hijacking control systems, with potentially dire consequences, such as breaching dams, colliding airplanes, or shutting down the power grid.

Terrorism and cyberattacks are considered emerging hazards with little to no history in the region but incidents occurring with more frequency across the globe. As such, the probability of a future terrorism incident in Yellowstone County was rated by the Planning Team as “possible”; however, the cyber security hazard was rated as “highly likely”.

Future Development

Future development should have little to no impact on the terrorism, violence, civil unrest, or cyber threats. Given the goals of eco-terrorists; however, future development could serve as the basis for an event over controversial development.

Climate Change

Many academics and national security experts agree that climate change contributes to an uncertain world where terrorism can thrive. Climate change not only threatens the environment, it can lead to greater instability and fuel global conflict and terrorism. Some of the least stable states in the world will face changing weather patterns that reduce arable land and fresh-water supplies, in turn driving mass-migration, provoking resource conflicts, and fostering global health threats.

Both cyber threats and climate change are security risks that can affect the safety and security of our most basic resources, such as water, energy and infrastructure, mostly due to a common factor: interconnectedness. As human beings and as nations, we are and always will be directly connected to our environment, as it provides us with the resources necessary for both survival and prosperity.

We have also become intimately connected and dependent on our computer-based technologies, with cyberspace and the Internet being a primary conduit (Allen, 2014).

And just as climate change can affect our access to (and supply of) water and energy, a cyber-attack on computers and industrial equipment that run water treatment facilities and power plants can have significant negative consequences (Allen, 2014).

4.6 Hazardous Material Incidents / Transportation Accidents

CPRI SCORES:
HAZ-MAT INCIDENTS = 2.1
HIGHWAY ACCIDENTS = 2.95
RAILROAD ACCIDENJTS = 2.85
AIRCRAFT ACCIDENTS = 2.65

Description and History

The hazardous material and transportation accident hazards have been combined into one profile because they often occur together. Hazardous material incidents also occur at fixed facilities which in Yellowstone County include refineries, chemical plants, bulk propane facilities, gas stations and agricultural supply dealers. Petroleum releases also have the potential to occur from one of several pipelines which run through Yellowstone County. Transportation accidents can occur on the highways, railroad, or in the air and often result in fatalities and injuries but rarely in property loss unless hazardous materials are involved. Because of the potential for future incidents involving hazardous materials to occur on the transportation corridors in Yellowstone County, these two hazards are profiled together.

Hazardous Material Incidents

A hazardous material release is the contamination of the environment (i.e. air, water, soil) by any material that because of its quantity, concentration, or physical or chemical characteristics threatens human health, the environment, or property. Hazardous materials, including petroleum products and agricultural chemicals, are commonly generated, stored and used in Yellowstone County and are regularly transported via the region's roadways, railroads, and pipelines. A release of hazardous materials from both fixed facilities and via transportation incidents typically involve emergency response. Hazards range from small spills on roadways to major transportation releases on railways or pipeline ruptures contaminating land and water. Within Yellowstone County, there are three refineries, several pipelines, two U.S. Interstate highways (I-90 and I-94) and two railroad carriers (Burlington Northern-Santa Fe and Montana Rail Link).

Yellowstone County has experienced several significant hazardous material incidents, as summarized in **Table 4.6-1.**

Table 4.6-1. Significant Hazardous Material Incidents; 1963-2018

Date	Hazard Event	Location	Description/Injuries/Costs
1/17/1963	Miracle Gas Company Fire & Explosion	421 N. 20th Street, Billings	The building fire occurred in the afternoon as children were getting out of school one block away. This caused an extremely hazardous situation with the storage of gas on the premises.
1980's	Gas Explosion	Billings	Gas explosion at Super 8 Motel
9/4/1986	Cenex Pipeline Rupture	Lockwood	8" pipeline lost 30,000 gal of gasoline in Coulson irrigation ditch. A 40" long gash on pipe caused by a backhoe caused it to rupture. Lockwood Water User wells were tested; no contamination found. During the event 12 businesses and 50 people were evacuated due to fumes.
1/28 – 2/3/1989	Cenex Pipeline Rupture	Huntley	8" pipeline ruptured with 8-10,000 gal of gasoline recovered from frozen creek. 4 homes evacuated, road closed, Montana Rail Link (MRL) railroad closed. Estimated damage and cleanup $15,000.
2/21–25/1989	Home Explosion	Custer Avenue, Billings	Entire home destroyed due to explosion of bottled propane gas in home. 1 death, 1 injury, 7 homes in neighborhood damaged by concussion and debris. Estimated cost $1.5 million.
7/1/1992	Tanker Truck Rollover	Lockwood	Farstad Oil Co. truck released 9,000 gal of propane. 3,000 people evacuated along with ExxonMobil Refinery, I-90 closed, electricity shut off to homes due to danger of ignition. 6-1/2 hours to contain.
6/22-24/1993	Railroad Tank Car	Lockwood	Local area in Lockwood evacuated, I-90 and MRL railroad closed.

Table 4.6-1. Significant Hazardous Material Incidents; 1963-2018

Date	Hazard Event	Location	Description/Injuries/Costs
3/24/1994	Tanker Truck Rollover	Lockwood	Farstad Oil Co. tanker truck with diesel fuel rolled over in Lockwood. I-90 closed and 3,000 gallons of fuel lost. Response costs $2,900.
10/22/1998	Cenex Refinery Explosion	Laurel	Hydrogen gas line ruptured causing explosion and fire. No injuries. $2.5 million in damage to refinery.
7/20/1999	Train Derailment	Downtown Billings	Six MRL cars derailed, 2 cars carried 72K gal of propane. 16 blocks evacuated as a precaution. It was a 16-hour incident with $22,641 in response costs.
10/7/2002	Orchard School	Billings	Gasoline spill caused the temporary evacuation of students. Fire Dept. ventilated building.
10/30/2002	Gas Explosion	V-1 Propane, Billings	Gas explosion and fire forced evacuation of surrounding businesses and elementary school. Shut down I-90 for 1 hour before fire extinguished.
11/24/2002	Train Derailment	Huntley	40 lbs. of ammonium nitrate released upon the derailment of 9 railroad cars due to a broken rail.
1/1/2008	Tanker Truck Rollover	Billings	Truck drift down the shoulder, rolling and striking a power pole releasing 1,520 gal. of a corrosive liquid.
9/21/2008	Tanker Truck Rollover	Billings	3,800 gal. of asphalt released in turnover of trailer when truck negotiated turn.
12/12/2008	Overfill	Worden	350 gallons of diesel fuel released from overfill of storage tank.
6/3/2009	Railroad Car Spill	Laurel	Sulfuric acid (10 gal) spilled onto locomotive engineer causing two injuries, one resulting in hospitalization.
7/15/2009	Overfill	Billings	Aviation fuel released when high alarm failed to operate on storage tank causing a release of 1,100 gallons.
11/26/2009	Pipeline Failure	Billings	40 barrels of diesel released from ConocoPhillips pipeline due to corrosion.
12/13-14/2009	Pipeline Failure	Billings	3,500 barrels diesel fuel discharged to ground outside ExxonMobil refinery. Coffer dams set up and vacuum truck used
12/8/2010	Equipment Failure	Billings	2,100 lbs. caustic sodium hydroxide released into soil at ExxonMobil refinery. Vacuum trucks cleaned up material.
7/1/2011	Pipeline Failure	Billings	1,000 barrels crude oil. Pipeline broke in the Yellowstone river releasing crude oil. The damage was caused by Yellowstone river flooding.
6/20/2012	Equipment Failure	Billings	30 lbs. of 2,4-D herbicide released from a boiler at Loveland Products facility. Material contained, vacuum truck used.
8/2/2012	Storage Tank Overfill	Billings	While filling a tank at Yellowstone County facility there was an overflow of approximately 100 gallons of gasoline. Spill workers sprayed gasoline into a nearby drain that led into nearby retention pond.

Source: Atkins, 2012; NRC, 2012-2018

Table 4.6-2 presents a summary of the number of reportable hazardous material incidents in Yellowstone County from the National Response Center database. Review of the specific incidents revealed that most reportable incidents are from fixed facilities; specifically, flaring associated with the refineries. The MHMP Planning Team indicated that flaring is a common event that does not require a haz-mat response.

Table 4.6-2. Summary of Yellowstone County Hazardous Material Incidents; 1990 – 2018

Year	# Fixed	# Mobile	# Pipeline	# Railroad	Year	# Fixed	# Mobile	# Pipeline	# Railroad
1990	10	1	2	0	2005	31	1	2	1
1991	11	1	0	1	2006	50	1	1	0
1992	12	0	1	2	2007	9	2	0	0
1993	17	0	1	6	2008	6	1	0	2
1994	21	2	1	0	2009	7	0	5	1
1995	5	3	2	1	2010	4	2	0	1
1996	8	3	0	0	2011	7	0	5	1

Table 4.6-2. Summary of Yellowstone County Hazardous Material Incidents; 1990 – 2018

Year	# Fixed	# Mobile	# Pipeline	# Railroad	Year	# Fixed	# Mobile	# Pipeline	# Railroad
1997	4	1	3	1	2012	8	1	0	0
1998	9	2	0	2	2013	5	0	0	1
1999	10	1	0	1	2014	7	1	0	2
2000	10	2	2	0	2015	6	6	0	0
2001	7	4	2	1	2016	6	0	1	0
2002	23	1	1	0	2017	3	0	0	1
2003	26	0	1	0	2018	6	0	0	0
2004	47	1	0	0	**TOTAL**	**375**	**37**	**30**	**25**

Source: NRC, 2018 (http://www.nrc.uscg.mil/).

Billings is home to one of the state's Regional Haz-Mat Response Teams. The MHMP Planning Team indicated that the haz-mat team has received state and federal funding in the past but is now relying on grants to fund equipment. Legislation is being sought for increased funding. Funding limitations may reduce future regional haz-mat response capabilities.

There have been no federal disaster declarations associated with the hazardous material incident hazard in Yellowstone County. However, the Montana governor declared a state of emergency in 2011, related to a rupture in the ExxonMobil pipeline, as described below.

July 2011 – The ExxonMobil pipeline broke near Laurel during flooding in July 2011 releasing 63,000 gallons of oil that washed up along an 85-mile stretch of riverbank. The company spent $135 million on the cleanup and other work. Oil was confirmed 90 miles away, with most pockets within 19 miles of the leak site. A drop in pressure tipped pipeline operators seven minutes after the rupture occurred, with shutdown of the pipeline complete within 30 minutes. More than 48,000 feet of absorbent boom and 2,300 absorbent pads were used for the initial response to soak up the oil. Air quality and municipal water systems were monitored, while planes routinely flew over the river to help detect patches of oil. Montana and federal officials notified ExxonMobil that they intend to seek damages for injuries to birds, fish and other natural resources from the spill. The company also is being asked to pay for long-term environmental studies and for lost opportunities for fishing and recreation during and since the cleanup. (CNN.com, *Montana Issues Emergency Order for Spill, Holds Exxon Responsible*, July 5, 2011; CBSNews.com, *Cleanup After "Unfortunate Incident" in Yellowstone*, January 19, 2015).

The Emergency Planning and Community Right-to-Know Act (EPCRA) was enacted in 1986 to inform communities and citizens of chemical hazards in their areas. Sections 311 and 312 of EPCRA require businesses to report the locations and quantities of chemicals stored on-site to state and local governments in order to help communities prepare to respond to chemical spills and similar emergencies. EPCRA Section 313 requires the U.S. EPA and the states to annually collect data on releases and transfers of certain toxic chemicals from industrial facilities and make the data available to the public in the Toxics Release Inventory (TRI). In 1990 Congress passed the Pollution Prevention Act which required that additional data on waste management and source reduction activities be reported under TRI. The goal of TRI is to empower citizens, through information, to hold companies and local governments accountable in terms of how toxic chemicals are managed. Fifteen (15) TRI facilities are located in Yellowstone County, as shown on **Figures 7 through 7D**. TRI facilities with disposal or release statistics are shown in **Table 4.6-3**.

1

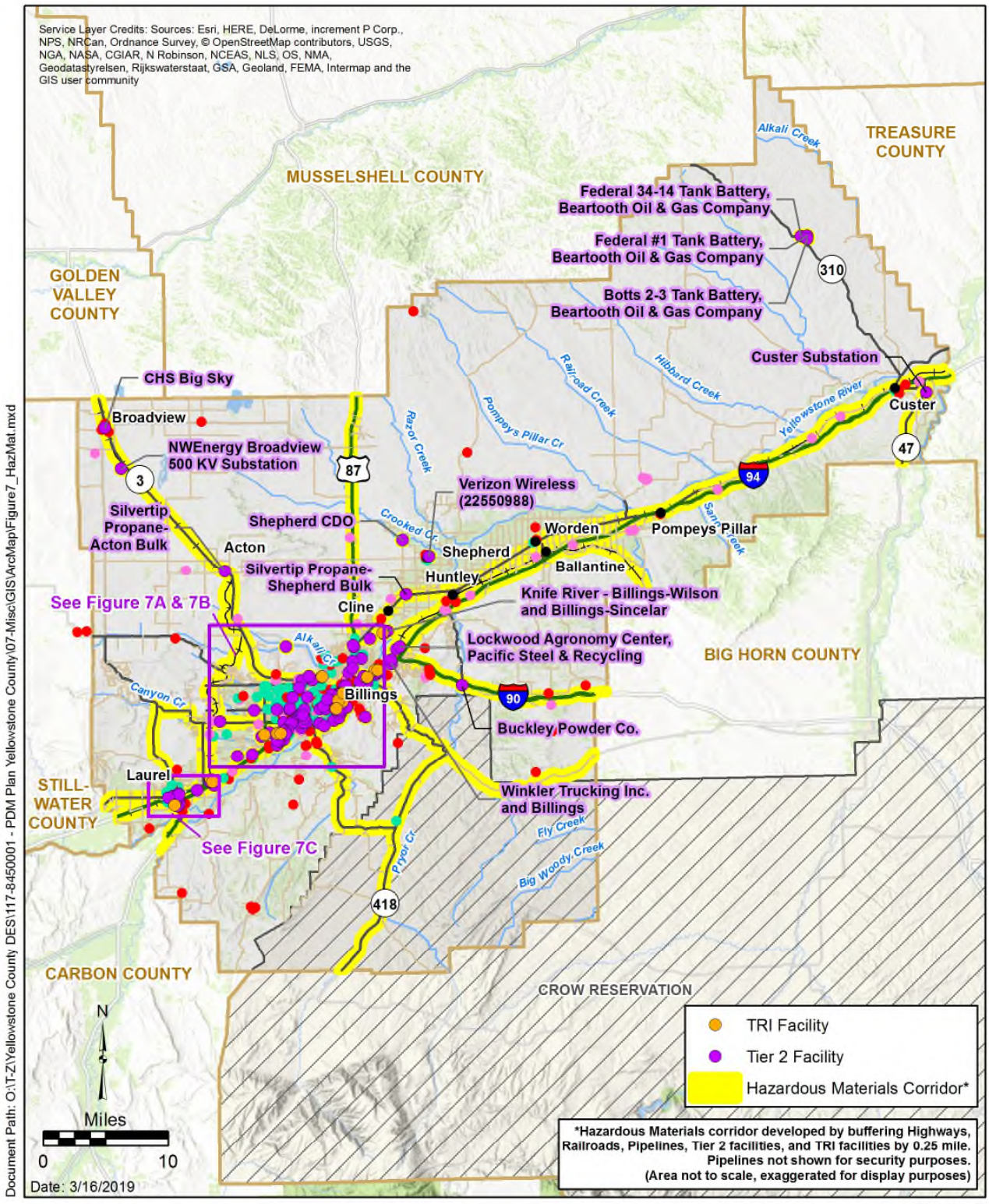


Figure 7
Hazardous Material & Transportation Buffer
Yellowstone County, Montana
Multi-Hazard Mitigation Plan

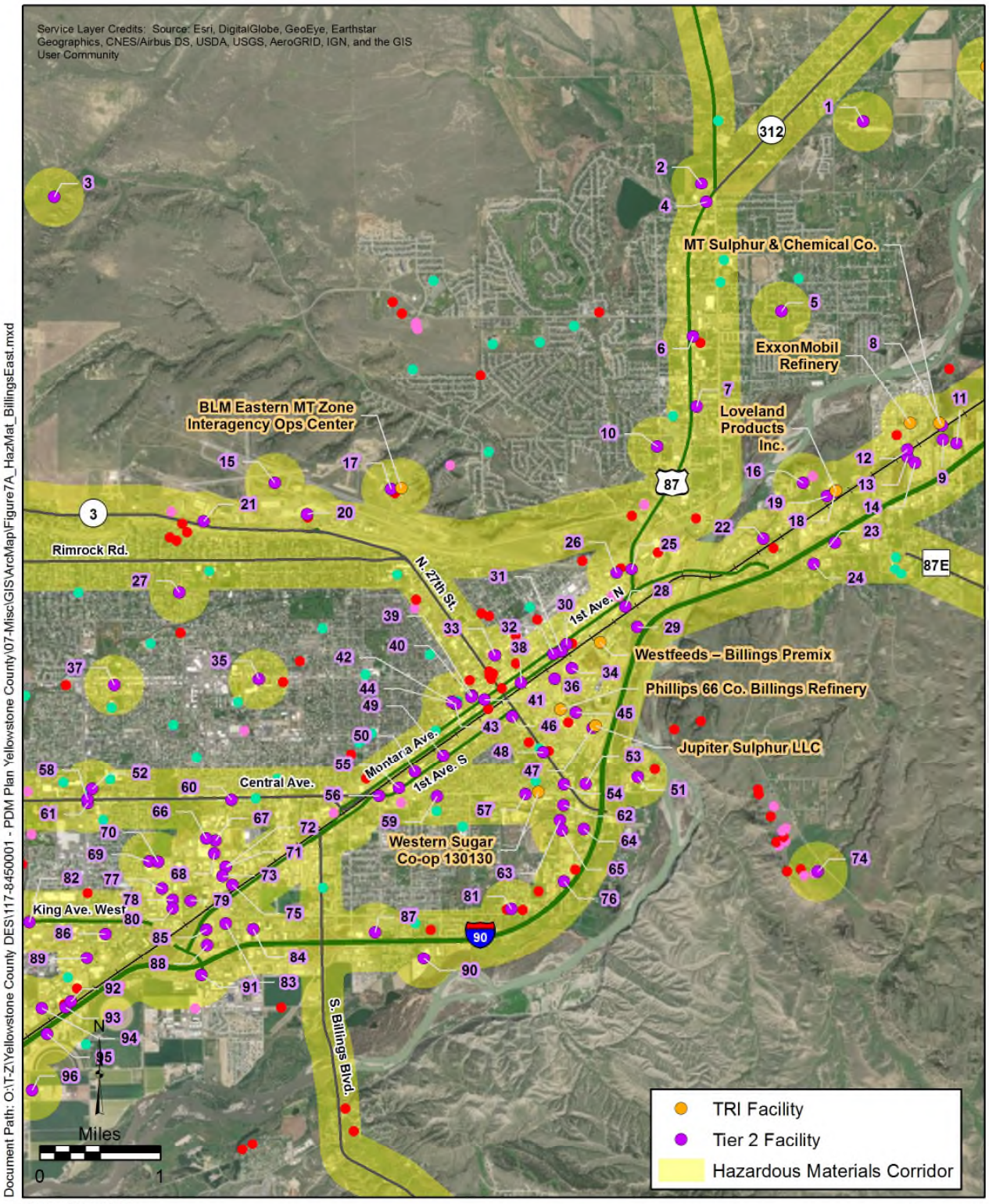


Figure 7A
Hazardous Material & Transportation Buffer - Billings East
Yellowstone County, Montana
Multi-Hazard Mitigation Plan

Legend

- Critical Facility
- School/Senior Facility
- Cell Tower
- Railroad
- Primary Route
- Secondary Route

1

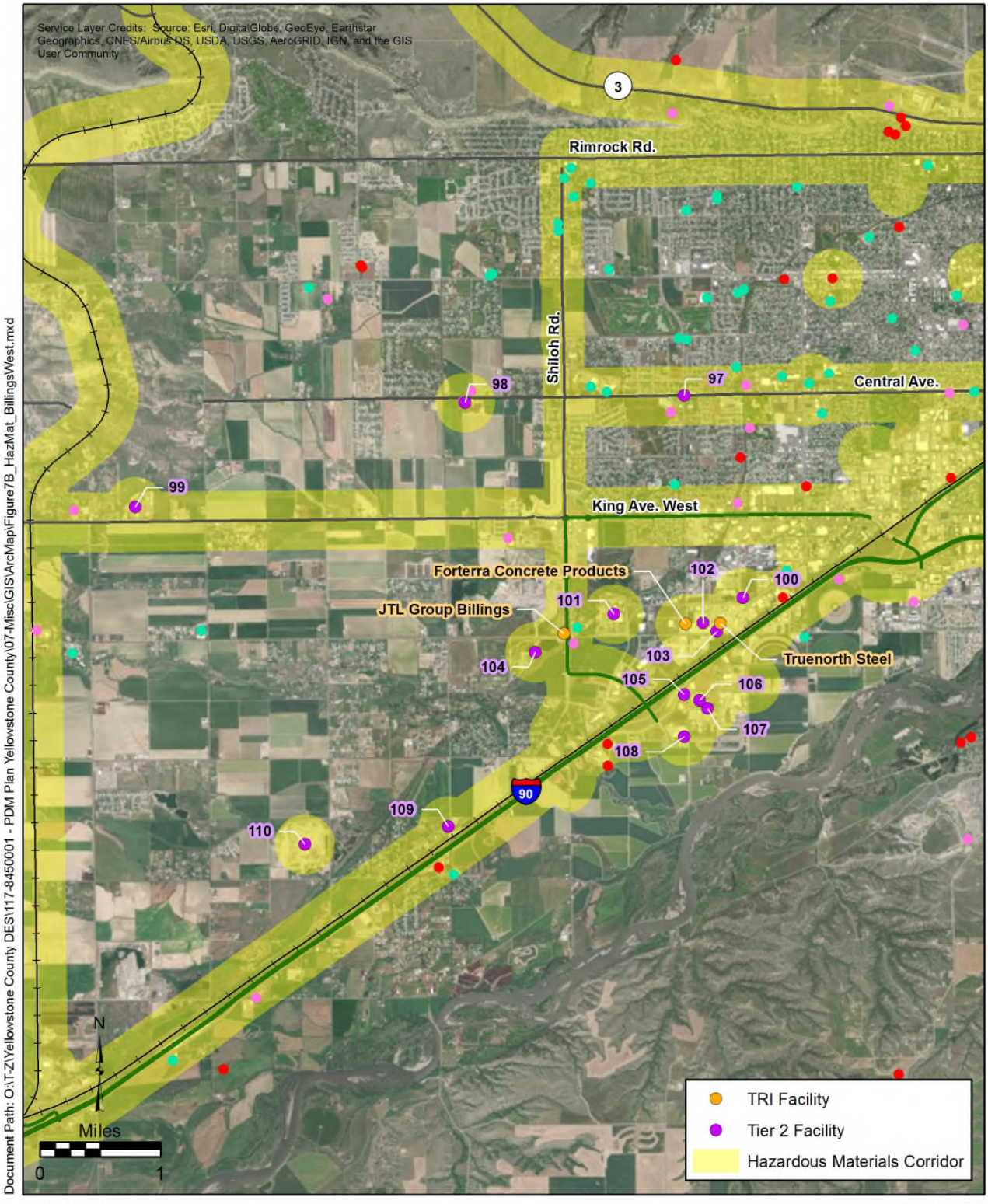
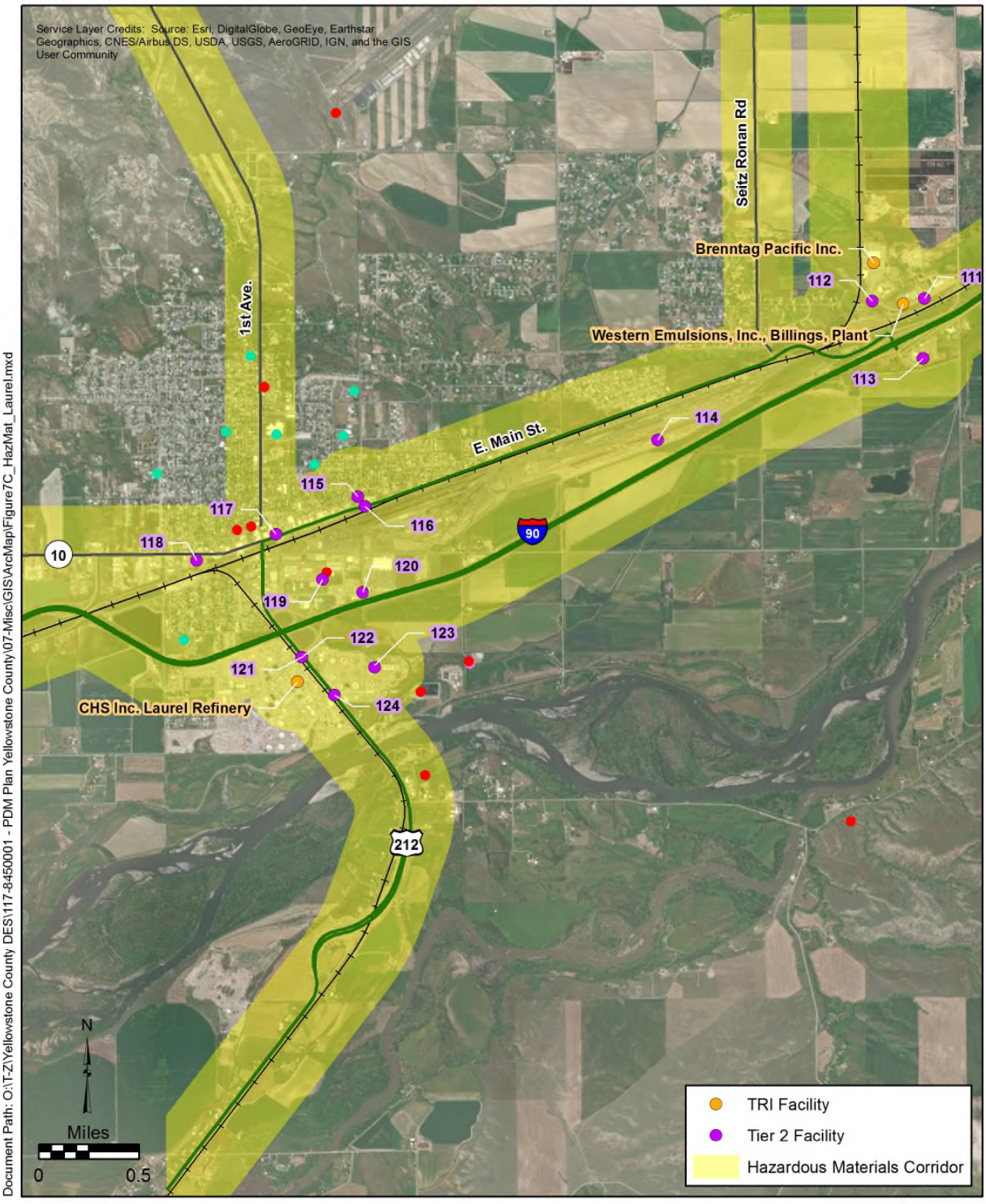


Figure 7B
Hazardous Material & Transportation Buffer - Billings West
Yellowstone County, Montana
Multi-Hazard Mitigation Plan

Legend

- Critical Facility
- School/Senior Facility
- Cell Tower
- Railroad
- Primary Route
- Secondary Route



Date: 3/16/2019

Figure 7C
Hazardous Material & Transportation Buffer - Laurel
Yellowstone County, Montana
Multi-Hazard Mitigation Plan

Legend

- Critical Facility
- School/Senior Facility
- Cell Tower
- Railroad
- Primary Route
- Secondary Route

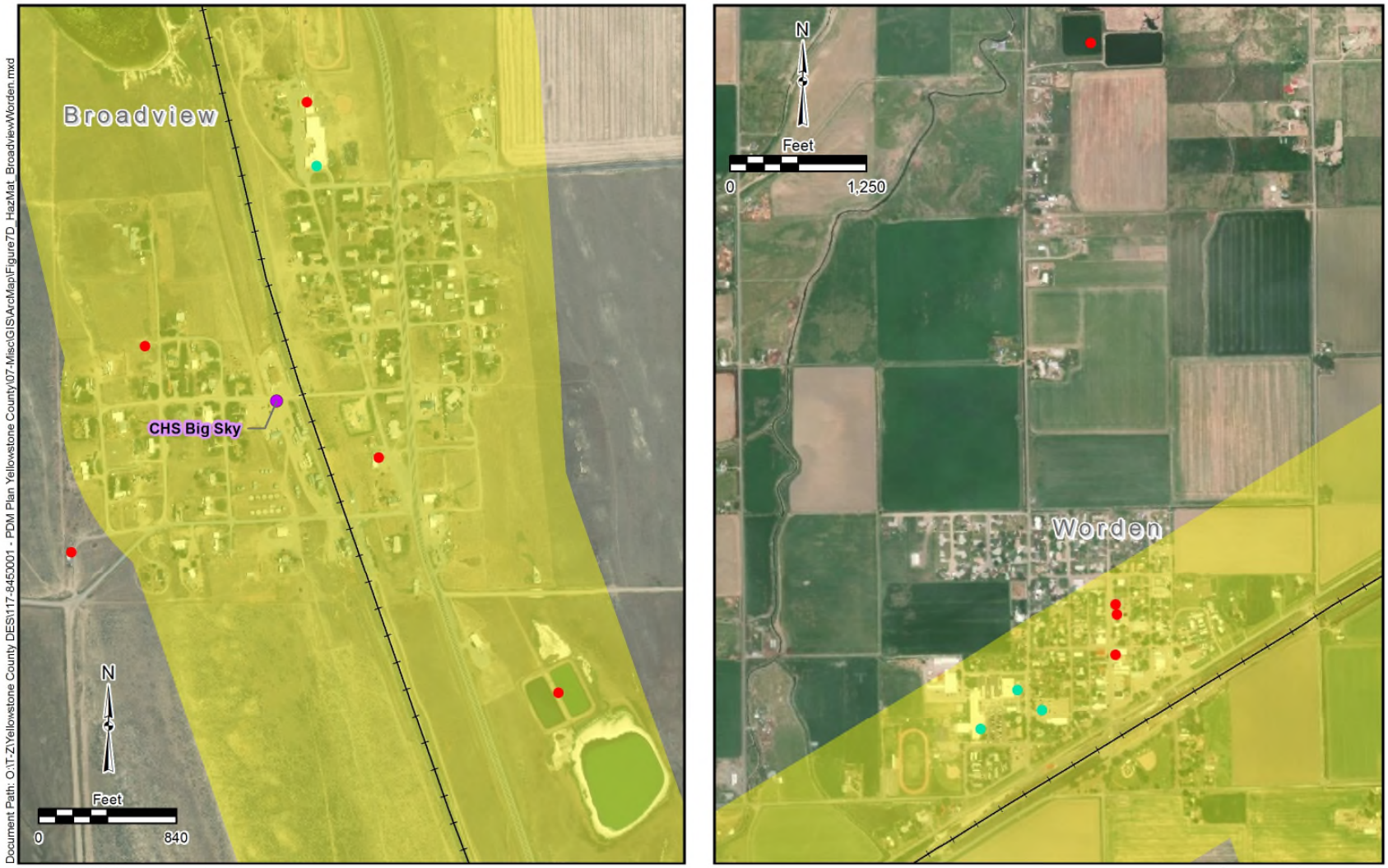


Figure 7D
Hazardous Material & Transportation Buffer
Towns of Broadview & Worden
Yellowstone County, Montana
Multi-Hazard Mitigation Plan

Table 4.6-3 - Toxic Release Inventory – Total Aggregate Releases; 2013-2016

Facility/Year	Total On-Site Disposal or Other Releases	Total Off-Site Disposal or Other Releases	Total On- and Off-site Releases / Chemical
Brenntag Pacific Inc. 7535 Mossmain Lane, Billings, MT			
2017	1,381	4,612	5,993
2016	1,246	2,693	3,939
2015	1,160	3,072	4,232
Chemicals: 1,2,4-Trimethlybenzene, Glycol Ethers, Diethanolamine, Ethylbenzene, Ethylene Glycol, Formic Acid, Methanol, Naphthalene, Xylene			
CHS Inc. Laurel Refinery, 803 Hwy 212 S. Laurel, MT			
2017	254,160	7,025	261,185
2016	255,815	413	256,228
2015	318,508	4,009	322,517
Chemicals: 1,2,4-Trimethylbenzene, 1,3-Butadiene, Ammonia, Benzene, Benzo(G,H,I)Perylene, Carbon Disulfide, Carbonyl Sulfide, Cyclohexane, Ethylbenzene, Ethylene, Hydrochloric Acid, Hydrogen Fluoride, Hydrogen Sulfide, Lead Compounds, Mercury Compounds, Methanol, Molybdenum Trioxide, N-Hexane, Naphthalene, Nickel Compounds, Nitrate Compounds, Phenanthrene, Phenol, Polycyclic Aromatic Compounds, Propylene, Tetrachloroethylene, Toluene, Xylene, Zinc Compounds			
ExxonMobil Billings Refinery, 700 ExxonMobil Rd, Billings, MT			
2017	180,076	9,211	189,287
2016	177,821	9,303	187,124
2015	158,739	22,300	181,039
Chemicals: 1,2,4-Trimethylbenzene, 1,3-Butadiene, Ammonia, Anthracene, Benzene, Benzo(G,H,I)Perylene, Carbonyl Sulfide, Glycol Ethers, Cobalt Compounds, Cumene, Cyclohexane, Diethanolamine, Dioxin and Dioxin-like Compounds, Ethylbenzene, Ethylene, Ethylene Glycol, Hydrogen Cyanide, Hydrogen Fluoride, Hydrogen Sulfide, Isoprene, Lead Compounds, Mercury Compounds, Methanol, Molybdenum Trioxide, N-Hexane, Naphthalene, Phenanthrene, Phenol, Polycyclic Aromatic Compounds, Propylene, Sulfuric Acid, Toluene, Vanadium Compounds, Xylene, Zinc Compounds			
JTL Group Billings (DBA – Knife River Billings), 4014 Hesper Rd., Billings, MT			
2017	242	-	242
2016	230	-	230
2015	118	-	118
Chemicals: Benzo(G,H,I)Perylene, Nitrate Compounds, Polycyclic Aromatic Compounds			
Jupiter Sulphur LLC, 2201 7th Ave. S., Billings, MT			
2017	100,619	40	100,659
2016	94,156	-	94,156
2015	91,028	13	91,041
Chemicals: Ammonia, Carbon Disulfide, Carbonyl Sulfide, Chromium, Hydrogen Sulfide, Nickel, Sulfuric Acid			
Knife River Billings East Site, 1927 Dover, Billings, MT			
2017	99	-	99
2016	112	-	112
2015	118	-	118
Chemicals: Benzo(G,H,I)Perylene, Nitrate Compounds, Polycyclic Aromatic Compounds			
Loveland Products Inc. – Billings (Formerly Transbas), 1525 Lockwood Rd., Billings, MT			
2017	564	-	564
2016	407	-	407
2015	349	-	349
Chemicals: 1,2,4-Trimethylbenzene, 2,4-D, 2,4-D 2-Ethylhexyl Ester, 2,4-D Butoxyethyl Ester, Dicamba, Dimethlyamine, Ethylene Glycol, Methoxone, N-Methyl-2-Pyrrolidone, Nathalene			
Montana Sulphur & Chemical Co., 627 ExxonMobil Rd., Billings, MT			
2017	15,864	-	15,864
2016	13,680	-	13,680
2015	15,813	5	15,818
Chemicals: Carbon Disulfide, Carbonyl Sulfide, Hydrogen Sulfide			
Phillips 66 Co. Billings Refinery, 401 S. 23rd St., Billings, MT			
2017	135,646	3,948	139,594
2016	85,214	41	85,255
2015	104,445	490	104,935
Chemicals: 1,2,4-Trimethylbenzene, 1,3-Butadiene, Ammonia, Anthracene, Benzene, Benzo(G,H,I)Perylene, Biphenyl, Chromium Compounds, Cobalt Compounds, Cumene, Dioxin and Dioxin-Like Compounds, Ethylbenzene, Ethylene, Hydrochloric Acid, Hydrogen Fluoride, Hydrogen Sulfide, Lead Compounds, Mercury Compounds, Methanol, Molybdenum Trioxide, N-Hexane, Naphthalene, Nickel Compounds, Phenanthrene, Phenol, Polycyclic Aromatic Compounds, Propylene, Styrene, Tetrachloroethylene, Toluene, Xylene, Zinc Compounds			

Table 4.6-3 - Toxic Release Inventory – Total Aggregate Releases; 2013-2016

Facility/Year	Total On-Site Disposal or Other Releases	Total Off-Site Disposal or Other Releases	Total On- and Off-site Releases / Chemical
US BLM Eastern MT Zone Interagency Ops Center, 1299 Rimtop Dr., Billings, MT			
2017	250	-	250
Chemicals: Ammonia			
Western Emulsions, Inc., Billings, Plant, 7315 Mossmain Ln, Billings, MT 59106			
2017	1	2	3
Chemicals: Benzo(G,H,I)Perylene, Polycyclic Aromatic Compounds			
Western Sugar Cooperative 130130, 3020 State Ave., Billings, MT			
2017	186,338	-	186,338
2016	179,470	-	179,470
2015	155,438	-	155,438
Chemicals: Ammonia, Barium Compounds, Lead Compounds			

Source: U.S. EPA, 2018; (https://iaspub.epa.gov/triexplorer/tri_release.chemical)

Many facilities in Yellowstone County sell or use hazardous materials including gas stations, agricultural chemical dealers, and fuel distributors. Locations of facilities in Yellowstone County with Tier II reporting requirements are listed in **Table 4.6-4** and shown on **Figures 4.7 through 4.7D**. **Appendix B** contains an index that can be used in conjunction to the numbered locations shown on the figures.

Table 4.6-4. Yellowstone County Tier II Hazardous Material Reporters

Facility Name	Address	Facility Name	Address
A & I Distributors Billings	BIL - 900 1st Ave North	Knife River - Billings - Hesper	BIL - 4014 Hesper Rd
Agro-Liquid - Billings	BIL - 1270 S 24th Street West	Knife River - Billings - Sindelar	BIL - 1927 Dover Road
Airgas USA, LLC - Billings C258	BIL - 6785 Trade Center Ave	Knife River - Billings - Wilson	BIL - 2807 Dover Road
Alliance Liquid Feeds Billings	BIL - 1320 S 24th St W	Laurel Co	LAUR - 14 Montana Ave
AT&T - 2ND AVE N - MT0030	BIL - 3011 2nd Ave N	Lockwood Agronomy Center	BIL - 3833 Coulson Road
Beartooth Oil & Gas Co.	BIL - SENE Sec 16-T6N-R32E	Loveland Products, Inc	BIL - 1525 Lockwood Rd
Beartooth Oil & Gas Company	BIL - SESE Sec 34-T7N-R32E	MCI- BILKMT	BIL - 222 N 32nd St,
Beartooth Oil & Gas Company	BIL - S2SW Sec 34-T7N-R32E	Meadow Gold Dairy-Dean Fds	BIL - 109 South Broadway
Billings	BIL - 1030 Intermountain St	MT Sulphur & Chemical Co.	BIL - 627 ExxonMobil Road
Billings	BIL - 1560 Coulson Road	NAPA Distribution Center	BIL - 5320 Southgate Drive
Billings Air Attack Base	BIL - 1299 Rimtop Drive	Norco, Inc - Billings	BIL - 899 Parkway Ln
Billings Bulk Plant	BIL - 7 North 18th St	NW Energy 500 KV Substation	BRV - S of Broadview Hwy 3
Billings Lube Warehouse	BIL - 1819 Montana Ave	NorthWestern Energy	BIL - 405 South 20th West
Billings Main Central Office	BIL - 3011 2nd Ave N	Nutralix	BIL - 201 Sugar Ave.
Billings Product Terminal	BIL - 2110 1st Ave. S	O'Reilly Auto Enterprises LLC	BIL - 744 South 18th St West
Billings Refinery	BIL - BIL - 700 ExxonMobil Rd	Pacific Recycling - #3	BIL - 777 4th Avenue North
Billings Shepherd Blk Propane	SHEP - 2847 Bitterroot Drive	Pacific Steel - #2	BIL - 145 Sugar Avenue
Billings Site #4	BIL - 275 Daniel St	Pacific Steel & Recycling	BIL - 3385 Coulson Road
Billings Station	BIL - 1.5 mi N I-90/Hwy 3	Pape Ditch Witch NW - Billings	BIL - 7072 Commercial Ave.
Billings Station	BIL - 338 Hwy 87 East	Phillips 66 Refinery	BIL - 401 S. 23rd Street
Billings Trading Post	BIL - 1225 Mullowney Ln	Phillips Pet Food & Supplies	BIL - 7225 Entryway Drive
Billings West Co	BIL - 3190 Central Ave	Poly Conoco	BIL - 1704 Poly Dr
BNSF Railway Co. - Alkali Crk	BIL - Alkali Cr Rd 7 mi N of BIL	Quikrete of Montana	BIL - 561 Sugar Avenue
BNSF Railway Co. - Laurel	LAUR - 2700 Shannon Road	Raymond Corcoran Trucking	BIL - 532 Klenck Ln
Brenntag Pacific, Inc.	BIL - 7535 Mossmain	Reddaway (590)	BIL - 833 Mullowney Lane
Buckley Powder Co.	HUNT -300 Indian Creek Road	Sam's Club #4805	BIL - 4420 King Avenue East
C&D Warehouse/LPI Door 4	BIL - 1818 Minnesota	SGS Billings	BIL - 4804 Danford Dr
Carquest Dist, Center #58	BIL - 2635 Belknap Ave	Shepherd CDO	SHEP - 5638 12 Mile Rd

Table 4.6-4. Yellowstone County Tier II Hazardous Material Reporters

Facility Name	Address	Facility Name	Address
Charter Communications	BIL - 751 So. 18th Street West	Silvertip Propane-Billings	BIL - 1346 Monad Rd
Charter Communications	BIL - 1860 Monad Rd	Silvertip Bulk Propane-Acton	ACT - 8351 Hwy 3
CHS, Inc - Billings Tank Farm	BIL - S34 T1N R26E	Silvertip Bulk Propane	SHEP - 5 Chicago ST
CHS Big Sky - Broadview	BRV - 14003 4th Street	SNG Inc, 3G's Convenience #1	BIL - 4410 State Avenue
CHS, Inc - Cenex Pipeline, LLC	BIL - 2136 Lockwood Rd	SNG Inc, 3G's Convenience #2	BIL - 702 S 27 Th Street
CHS, Inc - Cenex Pipeline, LLC	LAUR - 753 Bernhardt Rd	SNG Inc, 3G's Convenience #3	BIL - 730 Lake Elmo Dr
CHS, Inc - Laurel Refinery	LAUR - 802 Hwy 212 South	SNG Inc, Convenience #4	BIL - 1221 Wicks Ln
CHS, Inc - Laurel Refinery	LAUR - 802 Hwy 212 S	SNG Inc, 3G's Convenience #5	BIL - 4106 State Avenue
CHS, Inc. - Petroleum Terminal	LAUR - 627 Bernhardt Rd.	SNG Inc, 3G's Convenience #6	BIL - 1425 US Highway 87 E
CHS Transportation - Laurel	LAUR - 1011 Hwy 212 South	Sprint Billings, MT POP/Regen	BIL - 3025 Hesper Road
Coca-Cola High Country	BIL - 4151 1st Ave South	SUPERVALU Distribution Cent	BIL - 1629 King Avenue West
Costco Wholesale (0069)	BIL - 2290 King Avenue West	Sysco Montana	BIL - 1509 Monad Road
Crop Production Services 6543	BIL - 1505 Lockwood Road	TA Laurel	LAUR - 11360 S. Frontage Rd.
Custer Substation	CUS - Bench Rd, 3.6 mi SE Cust	The Home Depot Store #3101	BIL - 2784 King Ave West
DAL Global Services, LLC-BIL	BIL - 1901 Terminal Circle	Town and Country Supply	LAUR - 800 East Main Street
Don's Car Wash	BIL - 2343 Central	Underwood Water Treatment	BIL - 2251 Belknap Avenue
Don's Car Wash (1433 Main)	BIL - 1433 Main	United Parcel Service - Billings	BIL - 1830 Lamman Drive
Don's Car Wash	BIL - 1125 Grand	UPS - Billings Gateway	BIL - 2191 Overlook Drive
Don's Xpress Center	BIL - 1924 1st Ave N	V-1 Propane	BIL - 6650 S Frontage Road
Don's Xpress Center	BIL - 2344 Central	Veritiv Operating Company	BIL - 1495 Monad Road
Don's Xpress Center	BIL - 2324 Main	Verizon Wireless BIL ALDER	BIL - 2132 Grand Ave
DPC Industries, Inc.	BIL - 41 Sugar Avenue	Verizon Wireless BIL ELMO	BIL - 2414 W. Main Street
Energy Laboratories, Inc.	BIL - 1120 S. 27th Street	Verizon Wireless BIL HARDY	BIL - 420 North 25th Street
ExxonMobil Billings Terminal	BIL - 607 ExxonMobil Road	Verizon Wireless BIL SHILOH	BIL - 4524 Central Ave
Fastlane	LAUR - 815 E Main	Verizon Wireless CENTRAL	BIL - 1306 Central Ave
FedEx Freight, Inc - BLS	BIL - 7107 Commerce Ave	Verizon Wireless HEIGHTS	BIL - 1007 E. Main St.
FedEx Ground - Billings	BIL - 3605 Hesper Road	Verizon Wireless KING AVE	BIL - 526 Bernard Street
Fickler Oil Company, Inc	BIL - 4005 1st Ave South	Verizon Wireless - LAUREL	LAUR - 210 S Washington Ave
First Student, Inc. #11449	BIL - 425 Sugar Avenue	Verizon Wireless MOSS	BIL - 2902 First Ave North
Food Services of America	BIL - 1011 So. 24th St. West	Verizon Wireless PIONEER PK	BIL - 2336 St Johns Avenue
Food Services of America	BIL - 802 Parkway Lane	Verizon Wireless SHEPHERD	SHEP - 8125 Shepherd Road
Forterra Concrete Products	BIL - 1521 S 32nd Street	Warren Transport Inc.	BIL - 2348 N Frontage Road
General Distributing - Billings	BIL - 1327 S 29th St W	Western Emulsions, Inc.	BIL - 7315 Mossmain Ln
Grain Craft	BIL - 3601 1st Avenue South	Western Sugar Cooperative	BIL - 3020 State Ave
Guardian Building Products	BIL - 2700 Gabel Road	Wilbur-Ellis Company LLC	BIL - 7175 Trade Center ave.
H&E Equipment Services	BIL - 100 Steffes Road	Winkler Trucking Inc	BIL - 3050 N. Frontage Road
Hawkins Water Treatmt Group	BIL - 1519 Old Hardin Road	Xylem Inc. (Billings, MT)	BIL - 6871 King Ave W, Ste B
Helena Chemical Company	LAUR - 10 South 5th Ave	Yellowstone Co. Public Works	BIL - 3321 King Avenue East
Horizon Air Billings	BIL - 1901 Terminal Circle	Yellowstone Power Plant	BIL - 2215 No. Frontage Road
Industrial Gas Distributors	BIL - 1346 Monad Road	ZAL - NN - Billings Coburn	BIL - 2000 Colburn Rd
Jupiter Sulphur, LLC	BIL - 2201 7th Ave S	ZAYO Billings MT-222	BIL - 222 N 32nd St
Knife River - Blgs - Biggerstaff	BIL - 2880 So. 56th St. West		

Source: DEQ, 2018; Notes: ACT = Acton; BIL = Billings; BRV = Broadview; CUS = Custer; HUNT = Huntley; LAUR = Laurel; SHEP = Shepherd

The Montana DEQ maintains a list of clandestine methamphetamine drug laboratory sites. Drug lab sites in Yellowstone County are listed in **Table 4.6-5**. Methamphetamine labs typically require a haz-mat response. The MHMP Planning Team indicated that the Regional Haz-Mat Response Team is not responding to as many meth labs as in the past. However, they respond to 3 or 4 narcotics transport incidents per year on the I-90/I-94 corridor.

Table 4.6-5. Yellowstone County Methamphetamine Contaminated Properties

Date	Location	Date	Location
2/26/2001	300 Lomond, Store-It WH, Billings	7/8/2003	931 Cook Ave., Billings
3/19/2001	7546 Burlington Ave., Billings	9/11/2003	1360 Easy St. #2, Billings
3/19/2001	514-64th St. W., Billings	2/7/2004	7941 Burlington Ave., Billings
5/15/2001	815 Wicks Ln., Billings	7/14/2004	111 N. 23rd St. Apt. 4, Billings
8/8/2001	331 Bohl Ave #20, Billings	7/28/2004	4126 State Ave., Billings
10/31/2001	2111 Atchison Dr., Billings	5/6/2010	1926 Mullowney Ln #7 & 10, River Grove Estates, Blgs
11/30/2001	207 Miles Ave., Billings	10/24/2010	300 Lomond Ln. #272 Stor-It Mini Warehouses, Billings
11/30/2001	719 N. 32nd St., Billings	2/14/2017	1315 N. 27th St. Rodway Inn Rm 110, Billings
4/16/2003	40 Jackson St., Billings		

Source: DEQ, 2018; http://deqrpts.deq.mt.gov/reports/rwservlet?DEQ&report=MCP_ACTIVE_SITES.rep&paramform=no&p_col_1=COUNTY

Highway Accidents

Car crashes occur in every community across the nation and can be devastating to families, friends, and communities. It is estimated that vehicle crashes cost the state approximately $595 million in wage loss, medical expenses, insurance administration, and property damage. This figure does not account for the indirect costs of human suffering and loss resulting from these tragedies. Vehicular accidents occur for a number of reasons including distracted drivers, driver fatigue, drunk driving, speeding, aggressive driving, and weather. In Montana vehicle collisions with wildlife are a common occurrence. Statistics on highway accidents in Yellowstone County over the past 10 years are presented in **Table 4.6-6**. Information is not available on whether these incidents involved a hazardous material response. The MHMP Planning Team indicated that most of the significant transportation accidents have involved tractor-trailers.

Table 4.6-6. Yellowstone County Vehicular Crash Data; 2008 – 2017

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	TOTAL
All Crashes											
Fatal Crash	20	24	18	20	18	21	16	17	16	12	**182**
Serious Injury Crash	80	80	71	69	84	95	87	68	62	66	**762**
Total # of Crashes	3,490	3,478	3,483	3,519	3,537	3,675	3,609	3,722	3,194	3,456	**35,163**
Nighttime Crashes											
Fatal Crash	12	12	12	10	8	8	7	7	11	5	**92**
Serious Injury Crash	21	24	20	24	38	27	28	20	26	23	**251**
Total # of Crashes	1,019	979	891	970	1007	921	979	1,042	917	962	**9,687**
Rural Roadway Crashes											
Fatal Crash	13	14	11	12	11	16	7	11	10	10	**115**
Serious Injury Crash	41	42	46	44	50	53	45	28	36	26	**411**
Total # of Crashes	701	665	694	769	705	893	839	932	797	869	**7,864**
Winter Crashes											
Fatal Crash	2	4	8	5	4	6	4	5	5	2	**45**
Serious Injury Crash	19	18	19	13	27	24	23	26	22	9	**200**
Total # of Crashes	1,294	1,250	1,308	1,232	1,181	1,312	1,435	1,403	1,197	1,241	**12,853**
Wild Animal Involved Crashes											
Fatal Crash	0	1	0	1	0	2	0	-	-	-	**4**
Serious Injury Crash	0	3	0	1	1	2	1	-	-	-	**8**
Total # of Crashes	3	1	0	0	0	0	0	-	-	-	**4**

Source: MDT, 2018 (http://www.mdt.mt.gov/publications/datastats/crashdata.shtml); Notes "-" = Not Available

In Montana, more than 75 percent of commodities are moved by truck. I-90 carries more than 1,000 commercial vehicles per day and is the busiest truck route in the state. I-94, MT-3 and US-87 are also important truck routes in and around the Billings urban area. There are no designated truck routes through the urban area, but preferred routes include 27th Street South, Shiloh Road, Laurel Road and Moore Lane, Main Street, Old Hardin and Hardin Roads and King Avenue.

Within the next several years, the Billings Bypass project will be completed to improve access in the northeast portion of Billings. This alternative will provide a 5.15-mile-long two-lane roadway connection across the Yellowstone River between I-90 and Old Hwy 312. Secondary corridor improvements include reconstruction of Five Mile Road to MDT standards, and construction of a new segment of Five Mile Road extending from Dover Road to Old Hwy 312.

There is no history of a mass casualty accident in Yellowstone County involving a school bus or tour bus; however, school events use bus transport during winter months when severe weather can pose an extreme risk. The MHMP Planning Team indicated that multi-vehicle accidents occur every couple of years in Yellowstone County.

Railroad Accidents

The two railroad operators in Billings are Burlington Northern-Santa Fe (BNSF) and Montana Rail Link (MRL). Both move large volumes of coal and freight through the area and serve the downtown Billings intermodal facility. Freight originating in the region includes coal and coal products, petroleum, farm products, lumber and wood products, and stone, clay, glass and concrete products. Ninety (90) percent of these commodities were shipped out of state. The City of Laurel has the largest railroad yard between Minneapolis and Seattle.

According to the National Transportation Safety Board (NTSB), 60 percent of all railroad accidents occur at unprotected or passive crossings. There have been three fatalities and 16 injuries at railroad crossings in Yellowstone County in the past 16 years, as shown in **Table 4.6-7**. The MHMP Planning Team indicated that vehicles have been hit several times at the Ballentine crossing.

Table 4.6-7. Yellowstone County Accidents at Railroad Crossings: 2002 – 2018

Date	Road	Highway User	Fatalities	Injuries	Crossing Protection
2/26/2002	27th St., Billings	Car	0	1	Gates
3/7/2002	29th St., Billings	Pickup Truck	0	0	Cross Bucks
6/13/2002	Hesper Road	Pickup Truck	1	1	Cross Bucks
10/3/2002	Private Road	Pickup Truck	0	0	None
10/4/2003	Private Road	Van	0	0	None
10/30/2003	Cenex, Laurel	Tractor Trailer	0	1	None
2/11/2004	Monad Road Crossing, Billings	Car	0	0	Flashing Lights
6/24/2004	Danford Road	Van	0	2	Cross Bucks
9/24/2004	27th St. Crossing, Billings	Pedestrian	0	1	Gates
1/30/2005	N. Broadway, Billings	Car	0	0	Gates
5/30/2005	Public Road	Tractor Trailer	1	0	Cross Bucks
9/28/2005	Public Road	Pickup Truck	0	1	Cross Bucks
12/4/2005	MT Udder, Billings	Car	0	0	None
12/12/2005	Montana Ave., Billings	Truck	0	0	Flashing Lights
7/20/2006	56th Street, Laurel	Car	0	0	Gates
10/21/2006	Public Road	Pickup Truck	0	0	Cross Bucks
10/24/2006	Western Sugar Spur, Billings	Tractor Trailer	0	0	Gates
10/26/2006	S. 8th Road	Pickup Truck	0	1	Cross Bucks

Table 4.6-7. Yellowstone County Accidents at Railroad Crossings: 2002 – 2018

Date	Road	Highway User	Fatalities	Injuries	Crossing Protection
2/1/2007	N. 20th, Billings	Truck	0	0	Cross Bucks
5/17/2007	Cenex Crossing, Laurel	Pickup Truck	0	0	Stop Signs
1/4/2008	Coach HS Lead, Billings	Tractor Trailer	0	0	None
2/29/2008	27th St., Billings	Pedestrian	0	1	Gates
3/5/2008	King Ave. West, Billings	Car	0	0	Watchman
12/2/2008	29th St., Billings	Pedestrian	0	1	Gates
12/9/2008	Private Road	Other	0	1	Stop Signs
1/10/2009	Moore Lane, Billings	Car	0	0	Gates
7/22/2009	Conoco, Billings	Car	0	0	Cross Bucks
10/13/2010	Private Road	Pickup Truck	1	2	Stop Signs
11/12/2010	10th Street, Billings	Other	0	0	Cross Bucks
12/15/2010	Private Road	Truck	0	0	None
2/13/2012	S. 28th Rd, Billings	Car	0	1	Cross Bucks
2/22/2012	Moore Ln., Billings	Pedestrian	0	1	Gates
1/2/2013	56th St. W, Billings	Pickup Truck	0	1	Gates
6/2/2013	27th St., Billings	Pedestrian	0	0	Gates
5/5/2014	29th St., Billings	Pedestrian	0	0	Gates
10/10/2014	Stave Ave. & Jackson, Billings	Car	0	0	Stop Signs
9/26/2015	Private Road	Car	0	0	Stop Signs
10/22/2015	Grain Craft, Billings	Truck	0	0	None
2/4/2017	State Ave., Billings	Car	0	0	Cross Bucks
6/11/2017	28th St./Broadway, Billings	Pedestrian	0	0	Gates
TOTAL			**3**	**16**	

Source: Federal Railroad Administration, 2018;
http://safetydata.fra.dot.gov/OfficeofSafety/publicsite/Query/gxrabbr.aspx

Federal Railroad Administration data indicates that between 2008 and 2018, 48 railroad accidents occurred in Yellowstone County, including 19 derailments that involved railcars carrying hazardous materials. **Table 4.6-8** presents this data. The MHMP Planning Team indicated that derailments occur in Yellowstone County every couple of years. The 2012 PDM Plan indicated that a train derailment in 1999 caused evacuation of downtown Billings. Further details on this incident were not available.

Table 4.6-8. Yellowstone County Railroad Accidents; 2008 – 2018

Date	Nearest Town	Fatalities	Injuries	Cars Carrying Haz-Mat	Haz-Mat Cars Damaged	Comments
1/23/2008	Billings	0	0	0	0	8 cars derailed.
2/9/2008	Laurel	0	0	0	0	2 engines derailed.
4/3/2008	Laurel	0	0	0	0	1 car derailed.
4/28/2008	Billings	0	0	0	0	Freight train incident
6/25/2008	Huntley	0	1	0	0	Yard switching incident
9/8/2008	Laurel	0	0	0	0	Yard switching incident
12/28/2008	Laurel	0	0	0	0	1 engine derailed.
4/28/2009	Laurel	0	0	1	0	Collision. 2 engines & 1 car derailed.
10/29/2009	Laurel	0	0	0	0	3 cars derailed.
11/20/2009	Laurel	0	0	0	0	3 cars derailed.
12/3/2009	Laurel	0	0	0	0	1 car derailed.
3/17/2010	Laurel	0	0	23	0	3 cars derailed.
5/1/2010	Laurel	0	0	0	0	3 cars derailed.
10/24/2010	Laurel	0	0	0	0	Collision. 1 engine & 1 car derailed.
11/14/2010	Laurel	0	0	0	0	4 cars derailed.
11/16/2010	Laurel	0	0	0	0	Collision. 1 car derailed.

Table 4.6-8. Yellowstone County Railroad Accidents; 2008 – 2018

Date	Nearest Town	Fatalities	Injuries	Cars Carrying Haz-Mat	Haz-Mat Cars Damaged	Comments
2/16/2011	Laurel	0	0	0	0	Collision
3/8/2011	Billings	0	0	0	0	5 cars derailed.
5/18/2011	Laurel	0	0	0	0	1 engine derailed.
9/5/2011	Laurel	0	0	0	0	Collision
12/16/2011	Laurel	0	0	0	0	5 cars derailed.
3/19/2012	East Lead	0	0	0	0	Collision. 14 cars derailed.
7/31/2012	Laurel	0	0	12	0	8 cars derailed.
9/25/2012	Laurel	0	0	80	4	8 cars derailed. No haz-mat released.
10/7/2012	Laurel	0	0	0	0	4 cars derailed.
11/5/2012	Billings	0	0	23	0	Collision.
5/7/2013	Laurel	0	0	0	0	3 cars derailed.
9/1/2013	Laurel	0	0	32	3	3 cars derailed. No haz-mat released.
11/7/2013	Laurel	0	0	3	0	3 cars derailed.
12/3/2013	River Lead	0	0	6	0	1 engine derailed.
12/9/2013	Laurel	0	0	28	3	1 car derailed. No haz-mat released.
2/01/2014	Billings	0	0	3	0	Yard switching incident
4/5/2014	Acton	0	0	44	0	2 cars derailed
4/7/2014	Billings	0	0	0	0	Cut of cars.
5/3/2014	Laurel	0	0	0	0	Collision. 2 cars derailed.
5/9/2014	Laurel	0	0	9	0	1 car derailed
7/10/2014	Ballantine	0	0	0	0	13 cars derailed.
11/9/2014	Laurel	0	0	30	0	Collision. 1 engine & 2 car derailed.
2/23/2015	Laurel	0	0	0	0	Collision. 1 car derailed.
4/5/2015	Laurel	0	0	6	2	2 cars derailed. No haz-mat released.
5/12/2016	Laurel	0	0	1	1	2 cars derailed. No haz-mat released.
9/8/2016	Billings	0	0	5	2	No haz-mat released.
10/19/2016	Ballantine	0	0	0	0	Collision.
3/31/2017	Huntley	0	0	30	3	3 cars derailed. No haz-mat released.
4/8/2017	Laurel	0	1	11	1	4 cars derailed. No haz-mat released.
12/18/2017	Laurel	0	0	0	0	2 cars derailed.
2/23/2018	Laurel	0	1	0	0	Collision. 1 car derailed.
4/5/2018	Laurel	0	0	6	2	2 cars derailed. No haz-mat released.
TOTAL		**0**	**3**	**253**	**21**	

Source: Federal Railroad Administration, 2018;
http://safetydata.fra.dot.gov/OfficeofSafety/publicsite/Query/incabbr.aspx

Aircraft Accidents

The Billings Logan International Airport is located on the plateau above downtown Billings. It is a 2,300-acre facility that has three runways, two instrument landing systems, two fixed base operators, a number of other aviation related businesses, and tow areas providing space for general aviation hangars. The airport is served by seven passenger airlines. In addition, the airport is served by approximately 12 cargo and mail carriers, including UPS and FedEx, landing over 50 million pounds of cargo annually. Billings Logan International Airport is a growing regional air traffic hub with a market area encompassing central and eastern Montana and northern Wyoming. A Chinook helicopter business is located in Billings.

Aviation accidents can occur for a multitude of reasons from mechanical failure to poor weather conditions to pilot error. They are often fatal to the occupants. The MHMP Planning Team indicated that Yellowstone County sees a lot of private fights with aircraft fatalities occurring once every 25

years. Federal Aviation Administration (FAA) database listings for aircraft accidents in Yellowstone County since 2000 are presented in **Table 4.6-9.** A significant accident in 1992 is described below.

Table 4.6-9. Yellowstone County Aircraft Accidents

Date	Location	Fatalities	Aircraft Type	Date	Location	Fatalities	Aircraft Type
2/16/2000	Billings	0	Cessna 152	4/21/2006	Worden	0	Pitrolo GL-25
5/29/2000	Laurel	0	Cessna 182B	4/30/2006	Billings	0	Cessna 172N
9/27/2000	Laurel	0	Hughes 269B	9/6/2006	Laurel	0	Cessna 150
2/20/2001	Billings	0	Cessna 402B	11/18/2006	Billings	0	Cessna 170B
6/10/2001	Billings	0	Piper PA-18	12/11/2006	Laurel	0	Cessna 172RG
7/12/2002	Laurel	0	Thurmond Moni	3/5/2007	Custer	0	Bell 206 B3
9/26/2002	Billings	0	Cessna 172RG	5/19/2007	Billings	0	Beech B-99
6/12/2003	Laurel	0	Piper PA-18A-150	7/17/2007	Laurel	0	Beech E-33C
9/10/2003	Billings	0	Piper PA-22-160	9/30/2007	Laurel	0	Bellanca 7GCBC
2/24/2004	Laurel	0	Piper PA-20	5/23/2008	Billings	1	Beech 1900C
5/1/2004	Laurel	0	Piper PA-18-105	7/15/2009	Laurel	0	Cox John Wiley Kitfox III
5/9/2004	Broadview	0	2003 Nash Kitfox II	8/10/2010	Billings	0	Piper PA18A
10/17/2004	Billings	0	Beech 99A	12/2/2012	Billings	0	Aerotek Pitts-S-1T
1/10/2005	Billings	0	Cessna 180	7/30/2013	Billings	0	Piper PA-44-180
5/28/2005	Laurel	0	Jackson Rans S-6S	2/17/2014	Billings	0	Boeing 737-700; United
6/17/2005	Billings	0	MBB BO-105	2/8/2016	Billings	0	Cessna-T206H
6/28/2005	Laurel	0	Cessna 170B	5/30/2016	Laurel	0	Piper PA 18-150
7/21/2005	Laurel	0	Hughes 269A	1/19/2017	Billings	0	Beech 99
4/19/2006	Billings	0	Cessna 310R	**TOTAL**		**1**	

Source: FAA, 2018; http://www.faa.gov/data_research/accident_incident/

December 18, 1992 - A twin engine jet carrying six employees of the Western Area Power Administration and two pilots crashed into the side of a Billings school district warehouse killing all eight people on board. The plane exploded into a fireball on impact that spread through the steel building. Three employees of School District 2 were in the warehouse when the plane hit, but all escaped without injury. The NTSB found that the pilot of the Cessna was flying too close to a Boeing 757 cargo jet and got caught in the wake of the large aircraft. The warehouse, which stored school records, books, supplies, food, and vehicles for School District 2, was destroyed. (Billings Gazette, *Previous Fatal Crash in '92 Took 8 Lives*, May 23, 2008).

Vulnerability and Area of Impact

The impact of a hazardous material incidents is high because of the relatively large population and industrial base in Yellowstone County and because both the interstate highways and railways are major east west shipping routes. Both interstate highways I-90 and I-94 are used heavily by commercial vehicles hauling chemicals, petroleum products, and farm products and more. An incident could block all east-west traffic and detain large numbers vehicles and individuals. In addition to interstate travel, rail lines run through Yellowstone County that provides the only means of rail transport across this region. Derailments and collisions are rare but have the potential to impact urban populations. Major petroleum pipelines convey fuel and crude oil through Yellowstone County and river crossings are especially vulnerable to damage and rupture during flood conditions.

Large quantities of propane, anhydrous ammonia, agricultural chemicals, and petroleum products are manufactured, refined, and/or stored in various fixed locations in Yellowstone County. An

accidental or intentional release of materials could produce a health hazard to those in the immediate area, downwind, and/or downstream. The volume and type of hazardous materials that flow into, are stored, and flow through communities will determine exposure to a potential release of hazardous materials.

Railroad-related hazards are also a threat to Yellowstone County residents. According to the NTSB, more than 80 percent of public railroad crossings do not have lights and gates, and 60 percent of all railroad accidents occur at these unprotected crossings. The main railroad tracks bisect downtown Billings thus creating disruption of traffic flow between the downtown and southside neighborhoods. The need for one or more grade separations between downtown streets and the railroad tracks has been a serious concern for southside residents for more than four decades. Excessive delays, long queue lengths and public safety are the primary issues.

The MHMP Planning Team indicated that the railroad yard in Laurel is a big concern because the yard runs along Main Street. Prevailing winds would take fumes from a spill into Laurel's downtown. The City of Laurel has contracted for plume modeling capabilities in the event of a haz-mat incident.

Oil trains are a concern because of the catastrophic impacts that could result from a derailment that ruptures an oil tanker in town or into waterways. According to a MHMP stakeholder, there are more oil trains passing through Yellowstone County now than in 2012; however, this fluctuates depending on activity in the Bakken Oil field. It is common that these trains have over 100 cars with 1 million gallons of crude oil per train.

The U.S. Department of Transportation issued an emergency restriction order on May 7, 2014 that requires railroad carriers to identify to the State Emergency Response Commission through which counties Bakken crude oil is being transported. The notification provides information regarding the estimated volumes and frequencies of train traffic per week and describes the petroleum crude oil expected to be transported and applicable emergency response information (USDOT, 2014). MT DES forwards copies of the notifications to county emergency managers for their information and dissemination.

Probability and Magnitude

Yellowstone County has a high probability of occurrences of hazardous material incidents. With a major rail line running through downtown Billings, the largest airport in the state located in close proximity to downtown Billings, three refineries, several chemical industries, major petroleum pipelines, and a large section on I-90 and I-94 within the county's jurisdiction, it would be expected that more events could happen in the future. Risks will increase as the population of the county continues to increase. Additionally, damaging impacts to transportation infrastructure by the secondary effects of other potential hazards (severe weather, ditch or drain failure, flooding) could also contribute to increased risks of future transportation/mobile incidents.

The history of hazardous material incidents in Yellowstone County indicates 467 minor events over the past 18 years. As such, the probability of future events is rated as "highly likely"; an event that happens at least once a year. The MHMP Planning Team rated the likelihood of a significant haz-mat incident in Yellowstone County as "possible". The magnitude of any hazardous material event would depend on the amount and material spilled.

Yellowstone County is vulnerable to vehicular accidents. In the past 10 years, there have been over 35,000 motor vehicle accidents, including 182 crashes involving fatalities and 762 crashes producing severe injuries. Therefore, the probability of future transportation accidents is rated as "highly likely". The MHMP Planning Team rated the highway accident hazard as "highly likely", the railroad accident hazards as "likely", and the aircraft accident hazard as "possible".

According to the U.S. Department of Transportation, Office of Hazardous Materials Safety, Yellowstone County had 33 hazardous material releases associated with commercial vehicle and rail accidents with reported damages over $1.4 million in the past 28 year, as shown in **Table 4.6-10.**

Table 4.6-10. Yellowstone County Hazardous Material Incidents with Damages >$1,000

Date	Location	Carrier	Quantity Released	Commodity Released	Damages	Mode of Transport
10/17/1990	Billings	BNSF Railway Co.	55 gal.	Formic Acid	$30,330	Rail
10/17/1990	Billings	BNSF Railway Co.	55 gal.	Formic Acid	$30,330	Rail
1/27/1992	Laurel	Montana Rail Link Inc.	3,000 lbs.	Chlorate/Borate	$4,423	Rail
7/11/1992	Billings	BNSF Railway Co.	30 gal.	Xylenes	$8,725	Rail
8/20/1992	Laurel	Montana Rail Link Inc.	10 lbs.	Antimony	$2,102	Rail
4/26/1993	Billings	ConocoPhillips Co,	50 gal.	Aviation Fuel	$2,000	Highway
4/16/1996	Laurel	Cenex Transportation	20 gal.	Diesel	$1,518	Highway
6/6/1997	Billings	Dixon Bros. Inc.	100 gal.	Fuel Aviation	$1,100	Highway
7/20/1999	Billings	Montana Rail Link Inc.	0	Toluene	$67,800	Rail
7/20/1999	Billings	Montana Rail Link Inc.	0	Liquefied Petroleum Gas	$271,200	Rail
7/20/1999	Billings	Montana Rail Link Inc.	0	Sulfur Molten	$67,800	Rail
7/20/1999	Billings	Montana Rail Link Inc.	0	Toluene	$67,800	Rail
7/2/2000	Laurel	Montana Rail Link Inc.	2,000 gal.	Ammonium Nitrate	$9,900	Rail
4/1/2004	Billings	FedEx Ground	0.02 gal.	Liquid Cleaning Compounds	$1,050	Highway
4/1/2004	Billings	FedEx Ground	0.02.gal.	Liquid Cleaning Compounds	$1,050	Highway
10/3/2005	Billings	ABX Air Inc.	0.02.gal.	Paint Related Material	$1,500	Highway
6/30/2007	Billings	YRC Worldwide Inc.	0.08 gal.	Corrosive Liquid Amines	$1,400	Highway
1/1/2008	Billings	IBI Secured Transport	1,520 gal.	Corrosive Liquid Amines	$209,259	Highway
12/12/2008	Worden	Cenex Energy	350 gal.	Diesel	$4,050	Highway
7/15/2009	Billings	Sentinel Transportation	1,100 gal.	Fuel Aviation	$22,700	Highway
9/1/2010	Billings	Ryan Brothers Trucking	1,500 gal.	Elevated Temperature	$130,836	Highway
9/7/2011	Billings	Dick Irvin Inc.	20 lbs.	Ammonium Nitrate	$28,095	Highway
3/10/2014	Billings	YRC Worldwide Inc.	0.03 gal.	Acetic Acid	$2,400	Highway
3/14/2014	Billings	Farmers Union Oil Co.	12.5 gal.	Liquefied Petroleum Gas	$40,250	Highway
5/5/2014	Billings	USF Reddaway Inc.	55 gal.	Toxic Flammable Liquids	$2,800	Highway
6/2/2014	Billings	Farstad Oil Inc.	90 gal.	Gasoline	$17,597	Highway
3/2/2015	Laurel	Montana Rail Link Inc.	2,000 gal.	Diesel	$15,000	Rail
7/20/2015	Billings	Roadrunner	8 gal.	Corrosive Liquid	$2,100	Highway
11/21/2016	Billings	City Service Valcon LLC	1,522 gal.	Diesel Fuel	$37,598	Highway
3/9/2017	Billings	City Service Valcon LLC	8,000 gal.	Gasoline	$342,231	Highway
TOTAL					**$1,424,944**	

Source: USDOT, 2018; https://hazmatonline.phmsa.dot.gov/IncidentReportsSearch/IncrSearch.aspx
Notes: gal = gallons; lbs = pounds

To model the spatial distribution of hazardous material incident risk a GIS data layer of transportation arteries was used, which included highways, major roadways, railroads, and pipelines. Fixed facilities, including TRI and Tier II sites, were added to this layer and it was then buffered by 0.25 miles. **Figures 7 through 7D** present the hazardous material buffer in Yellowstone

County, Billings, Laurel, and Broadview/Worden and shows the vulnerability of critical facilities to hazardous material incidents. For security purposes, pipeline routes are not shown on the figures but were included in the haz-mat buffer.

Building exposure was calculated by intersecting the hazardous material buffer with the NRIS Structures database and the critical facility GIS layer. Population exposure was calculated using U.S. Census estimates. **Table 4.6-11** presents the results of the hazardous material incident vulnerability assessment.

Table 4.6-11. Yellowstone County Vulnerability Analysis; Haz-Mat Incidents

Category	Yellowstone Co. (balance)	Billings (City)	Laurel (City)	Broadview (Town)
Residential Property Exposure $	$1,159,210,126	$3,292,436,503	$201,806,115	$9,621,070
# Residences at Risk	6,788	18,535	1,614	79
Commercial, Industrial & Agricultural Property Exposure $	$452,295,662	$2,808,091,584	$277,735,644	$2,904,982
# Commercial, Industrial & Agricultural Properties at Risk	967	2,417	190	10
Critical Facilities Exposure Risk $	$73,425,629	$1,232,682,009	$72,069,419	$299,944
# Critical Facilities at Risk	69	95	9	2
Bridge Exposure $	$129,765,979	$62,736,200	$5,402,600	$0
# Bridges at Risk	200	42	4	0
Persons at Risk	10,417	28,660	2,598	132
Persons Under 18 at Risk	4,059	11,169	1,013	52
Persons Over 65 at Risk	3,208	9,668	862	36

The GIS analysis indicates that there are over 187,987 acres in Yellowstone County (11.1 percent) in the hazardous material buffer including 27,016 residences, 3,584 commercial, industrial and agricultural buildings, and 175 critical facilities. The *Hazardous Material Incident* section in **Appendix B-4** lists the critical facilities within the hazardous material impact area.

Future Development

Yellowstone County has no land use regulations that specifically restrict building around industrial facilities or along transportation routes or in the vicinity of facilities that store large quantities of hazardous materials or petroleum products. However, impacts to public health and safety are considered for all new subdivisions.

Climate Change

Hazardous material incidents and transportation accidents are not expected to increase as a result of climate change. No increase in exposure or vulnerability to the population, property, or critical facilities are expected to occur. Climate change is not anticipated to directly impact the transportation accident hazard. Secondary impacts to public health may result due to increased smoke from wildfire activity which may increase highway accidents.

4.7 Flooding and Dam Failure

CPRI SCORES:
DAM FAILURE = 2.9
FLOODING = 2.55

Description and History

A flood is a natural event for rivers and streams. Excess water from snowmelt and rainfall accumulates and overflows onto the banks and adjacent floodplains. Floodplains are lowlands, adjacent to rivers and lakes that are subject to recurring floods. A flash flood generally results from a torrential (short duration) rain or cloudburst on a relatively small drainage area. Ice jam flooding occurs when pieces of floating ice carried by the rivers current accumulate at an obstruction to the river. The water held back can cause flooding upstream, and if the obstruction suddenly breaks, flash flooding can then occur downstream as well. Dam failure can also cause flooding.

Hundreds of floods occur each year, making it one of the most common hazards in the U.S. Floods kill an average of 150 people a year nationwide. Most injuries and deaths occur when people are swept away by flood currents and most property damage results from inundation by sediment-laden water. Faster moving floodwater can wash buildings off their foundations and sweep vehicles downstream. Pipelines, bridges, and other infrastructure can be damaged when high water combines with flood debris. Basement flooding can cause extensive damage to the structure building systems.

The National Weather Service provides short-term forecasts and warnings of hazardous weather to the public by producing regularly-scheduled severe weather outlooks and updates on various forms of hazardous weather including heavy rain and flooding. A "watch" is issued when conditions are favorable for severe weather in or near the watch area. A "warning" is issued when the severe weather event is imminent or occurring in the warned area. Warning and Advisory Criteria for flooding is presented in **Table 4.7-1.**

Table 4.7-1. Warning and Advisory Criteria for Flooding

Flooding	Warning Description
Flash Flood Watch	Issued when conditions are favorable for flash flooding. It does not mean that flash flooding will occur, but it is possible
Flash Flood Warning	Flash flooding is imminent, water levels rise rapidly with inundation occurring in less than 6 hours.
Flood Watch	Issues when conditions are favorable for flooding. It does not mean flooding will occur, but it is possible.
Flood Warning	Flooding is expected to occur more than 6 hours after the causative event.

Source: NWS, 2018.

Yellowstone County is situated in the Yellowstone River watershed. All drainages flow into the Yellowstone River, which in turn, flows into the Missouri River 340 miles to the east. The Yellowstone River originates in Yellowstone National Park, and upon reaching Billings it has drained approximately 11,795 square miles. The only tributaries of the Yellowstone River to carry water year-round are the Clarks Fork of the Yellowstone, Bighorn River and Pryor Creek. The Clarks Fork defines a small segment of the west county boundary while the Bighorn forms a small segment of the east county boundary. Other county drainages that flow intermittently but with some regularity include Alkali Creek, Blue Creek, and Canyon Creek. These streams and the remaining streams in the county that can be classified as intermittent or ephemeral.

According to the *Flood Insurance Study of Yellowstone County* (FEMA, 2013), flooding on the Yellowstone River and Clarks Fork Yellowstone River is usually attributed to a combination of rapid snowmelt and high rainfall runoff. Streamflow normally follows a seasonal pattern, with low discharge during the winter. Melting of the valley snows, usually beginning in late February and continuing through April, results in a gradual rise in discharge. During May, June, and early July, mountain snowmelt combined with rains usually produce the highest discharges of the year. Relatively high flows last several months, bur rise and fall slowly. Flooding on tributaries of the Yellowstone River is usually due to intense thunderstorms. Snowmelt, accelerated by the Chinook wind and obstructed by ice jams, has also produced large flooding at the mouths of Blue Creek and Duck Creek. The duration of flooding is generally short, and damage has been restricted to downstream development. Overland, or flash flooding, has occurred both from collapse of irrigation ditches (as in the 1937 flood) and inadequate stormwater infrastructure in downtown Billings. Ditch and Drain Failure is profiled as a separate hazard in *Section 4.4* of this Plan.

Major floods of record on the Yellowstone River occurred in 1918, 1943, 1944, 1967, 1974, 1975 and 1997 with total damages totaling conservatively $65 million during that period (Atkins, 2012). Yellowstone County received Presidential Disaster Declarations in 1978, 1997, and 2011 due to flooding. Historic flood events are shown in **Table 4.7-2** with descriptions of events from available information. Newspaper accounts of several flood events are also presented below the table.

Table 4.7-2. History of Flooding in Yellowstone County

Date	Location	Description
6/1918	Yellowstone River	Yellowstone River peak flow of 80,000 cfs.
6/11-12/1937	Billings	Flooding-hail-rainfall (2.78") event covered 60% of the City of Billings. One life lost, 300 people homeless, 2,664 homes damaged, $3 million in losses. $50,000 worth of records lost in federal building, 8,000 acres of cropland damaged ($250,000), $150,000 in road damage, $200,000 fairgrounds damage, BBWA canal breach by Hilands Golf Course and broken flume at Alkali Creek ($100,000). Population of Billings was 20,000 at the time.
8/22/1965	Laurel	Rain, hail, flooding in Laurel. Water from a cloudburst broke irrigation ditches above Laurel. Costs included $113, 000 damages to business district, $56,000 damage to streets, $106,000 damage to residential areas, with total damage of $274,750. Rural area damage was $55,000.
6/16/1974	County-wide	Yellowstone River flood. $20,000 road damage, 50 farms and 2640 acres of crop damage, six homes flooded, $1.1 million total loss, emergency declaration by county disaster committee. Peak flow for the Yellowstone River at Billings on June 19 = 69,500 cfs.
6/14/1975	Yellowstone River	Peak flow for Yellowstone River at Billings on July 7 = 67,600 cfs.
5/1978	County-wide	Flooding, tributaries of Yellowstone River. Over 7" rain fell in Yellowstone and Big Horn Counties. County, state, and federal disaster declaration (FDAA-558-DR-3). 62 public projects including 8 bridges over Blue Creek and Pryor Creek washed out. Total cost $1.445 million: $1.274 million reimbursed by federal government, total county cost was $181,000. Agricultural damage and private damage not included in cost. Several Blue Creek subdivisions flooded. Peak flow for the Yellowstone River at Billings on May 19=50,200 cfs.
6/17 & 21/ 1991	County-wide	Flash Flooding. Flooding between Billings and Roundup on Hwy 87 North. County bridge washed out on Razor Creek. 1 death—woman in vehicle was washed away. Water poured off rims and homes below; Zimmerman Trail flooded, had rockslides. Basements in West Billings flooded. $200,000 estimated damage to homes/businesses, $41,000 crop damage.
January 2-3, 1997	Billings, Laurel, Worden	Flooding due to ice jams, Yellowstone River. Quick Chinook melted ice and caused ice to break, causing jams and flooding. Several farmsteads in Worden and residences in the Blue Creek areas received damage. City-County drain in south Billings backed up from the river causing minor flooding.

Table 4.7-2. History of Flooding in Yellowstone County

Date	Location	Description
6/6-12/1997	County-wide	Flooding on Yellowstone River and Clarks Fork due to heavy snowpack and rains. County, state, and federal disaster declaration (FEMA 1183-DR-MT) for all counties along river drainage. $1.4 million in damage: $388,000 public damage, $1 million in irrigation head gate system damage. Huntley dike damaged. River was 2 feet over flood stage (100-year flood) and priority protection (diking) was given to water plants in Laurel and Lockwood. Storm on June 10 dropped 3" rain flooding a south side Billings subdivision (Kings Green). On July 20th, another 1.6" rain caused $170, 000 in county road damage including Zimmerman Trail. Airport closed; 60 mph winds and hail recorded. Sixth Street underpass flooded. County resolution 97-39 on July 29, 1997. Total expenses for the 1997 flooding were $2,213,982. Peak flow for the Yellowstone River at Billings on June 12 = 82,000 cfs.
7/8/1997	County-wide	2.5 feet of water near Metra Park at intersection of Main and 1st streets. No recorded losses.
7/30/1998	Billings	Strong thunderstorm flooded 14th Street between Lewis and Clark. No reported losses.
7/31/1998	Billings	Street flooding was reported throughout Billings. Several underpasses were flooded and about a dozen manhole covers were flooded off. No reported losses.
10/2/1998	Billings	Localized street flooding was reported in downtown Billings between 30th and 27th streets on Montana Avenue and between 1st and 2nd streets on 27th Avenue. No recorded losses.
6/26/2001	Billings, Huntley	Two severe thunderstorms moved through Yellowstone County. Rain reports from the Billings Airport was 0.66 inches in about 45 minutes. Huntley received 1.67 inches of rain in just under 50 minutes. Flash flooding was observed over much of eastern Yellowstone County including downtown Billings.
7/4/2004	Billings	Street flooding in downtown Billings with 6th Street underpass flooded overnight. Heavy rain caused rock slides along the Rimrocks and some basements also flooded. 1.2 to 1.8 inches of rain fell across Billings on the evening of July 4th. No reported losses.
7/7/2007	Billings & Laurel	Two thunderstorm complexes moved across portions of south-central Montana during the early and late evening hours of July 7th. Hardest hit areas were Billings and Laurel where street flooding along with very strong winds were reported. No reported losses.
6/20/2010	Billings	Father's Day storm of 2010 caused $2.7 million in damages to Billings Clinic. Clinic has suffered total of $4.7 million in damages from surface water flooding.
5/22/2011	Pryor to Huntley	Pryor Creek flooded from Pryor to Huntley where it dumps into Yellowstone River inundating golf course, business, and several houses. Fatality occurred when saturated ground shifted, and farmer trapped under tractor. $300,000 in property damage.
6/20/2015	Shepherd	Slow-moving thunderstorm produced very heavy rain along with significant amounts of small hail resulted in flash flooding across the Shepherd area.
6/1/2018	Billings	Early morning thunderstorm dumped a ¼- to ½-inch of rain along with small hail across downtown Billings and Heights. Flooded streets caused problems for morning commute as standing water caused cars to stall in deep water at several underpasses.

Source: Atkins, 2012; NCDC, 2018; MHMP Planning Team meeting comments.

June 1937 - On June 11-12, 1937, Billings suffered a devastating and costly flood resulting from an intense rain and hailstorm over drainages west and northwest of Billings and breaching of many of the city's irrigation ditches. Substantial overland flows, with volumes in the range of 5,000 to 13,000 cfs developed along Canyon Creek, Cove Creek, and Alkali Creek. Railway bridges became partially clogged with flood debris west of town and floodwaters swept eastward along the railroad tracks into the City of Billings. This flood disaster resulted in loss of life and damage to over 2,600 dwellings and 600 businesses.

June 1997 – Water from torrential rain flowed into area rivers, adding to the flood threat from record-level amounts of melting snow in the mountains. Extensive flooding occurred from Park City, 20 miles west of Billings, to Custer, 50 miles east with some evacuations in rural areas. The Yellowstone River eroding two dikes in the community of Huntley, east of Billings. The dikes were weakened by age and lack of maintenance. One of them broke loose allowing some water into lowland areas. The other dike held in place by emergency rip-rap. (The Spokesman Review, *Montana Cities Brace for More Flooding, Yellowstone River Crest Pass Livingston, Heads for Billings*, June 10, 1997).

June 2010 – Flood water from a heavy rain storm turned streets in downtown Billings into rivers, parking lots into lakes and basements into swamps. More than an inch of water seeped into Billings Clinic hospital corridors. Along the wall of windows on the north side of the cafeteria, water outside the building was four inches higher than the cafeteria floor. In the hospital's north parking lot, storm water rose above the tires of passenger cars. The underground parking garage beneath the trauma center flooded as did the hospital's basement where a large quantity of supplies were damaged. The flooding overwhelmed the City's storm sewer system. The major arterials downtown, were impassable. Billings Central Catholic High School suffered minor flood damage with about three inches of standing water in the basement. (Billings Gazette, *Heavy Rains Cause Flooding Downtown*, June 21, 2010).

May 2011 – Over 5 inches of rain fell in the Pryor Mountains causing Pryor Creek to surge over its banks, spread across fields, flow over roads and driveways and surround homes. The heavy snow pack with rain helped melt a record amount of water down the mountains and streams. Several houses were flooded. Most of the low-lying holes at Pryor Creek Golf Club near Huntley were underwater. Roads along Pryor Creek Road either washed over or were completely washed out. A bridge toward the end of the road washed out. (Billings Gazette, *Huntley Flooding; Huntley, Pompey's Pillar Hit by Floodwaters*, May 22, 2011).

Dam Failure

Dams have been placed around Montana for many reasons including recreation, flood control, irrigation, water supply, hydroelectricity, and mining. Dams are built and owned by a variety of entities such as private individuals, utilities, and the government. Dams come in all shapes and sizes from small earthen dams to large concrete structures. The structural integrity of a dam depends on its design, maintenance, and weather/drainage situation. Problems arise when a dam fails and people and/or property lie in its inundation area. Dams can fail for a variety of reasons including seismic activity, poor maintenance, overwhelming weather and flow conditions, or by an intentional act. Dam failure can be compared to riverine or flash flooding in the area downstream from the dam, and sometimes for long distances from the dam, depending on the amount of water retained and the drainage area. Other dams may be located in areas that result in little if any damages during a failure.

The U.S. Army Corps of Engineers, National Inventory of Dams website keeps a record of dams across the country. Hazard ratings are given to those dams for emergency management planning purposes. These ratings, high, significant, and low, are based on the potential for loss of life and property damage from the failure of the dam, not the condition or probability of the dam failing, as described in **Table 4.7-3**. Yellowstone County DES keeps copies of Emergency Action Plans (EAPs) for the high hazard dams that could impact the county.

Table 4.7-3. Hazard Ratings for Dams

Rating	Description
Low Hazard Potential	Dams assigned the low hazard potential classification are those where failure or misoperation results in no probable loss of human life and low economic and/or environmental losses. Losses are principally limited to the owner's property.
Significant Hazard Potential	Dams assigned the significant hazard potential classification are those dams where failure or misoperation results in no probable loss of human life but can cause economic loss, environmental damage, disruption of lifeline facilities, or impact other concerns. Significant hazard potential classification dams are often located in predominantly rural or agricultural areas but could be located in areas with population and significant infrastructure.
High Hazard Potential	Dams assigned the high hazard potential classification are those where failure or misoperation will probably cause loss of human life.

There is one high hazard dam in Yellowstone County; Lakeside Dam. An EAP is not available for this dam. The Cooney Dam in Carbon County and Yellowtail Dam in Big Horn County are high hazard dams with the potential to impact Yellowstone County. **Table 4.7-4** presents details on these dams. There is no record of failure of a high hazard dam impacting Yellowstone County.

Table 4.7-4. High Hazard Dams in or Potentially Impacting Yellowstone County

Dam Name	Drainage	Height (feet)	Length (feet)	Maximum Storage (acre-ft)	Dam Type/ Purpose	Year Completed	Owner
Lakeside Dam	Off-Stream High Ditch	22	NA	133	Earth/Water Supply	NA	Lakeside HOA
Cooney Dam (Carbon Co.)	Red Lodge Creek	102	2,369	28,230	Earth/ Irrigation	1937	DNRC
Yellowtail Dam (Big Horn Co.)	Bighorn River	525	1,480	1,381,189	Concrete Arch/ Power Generation, Recreation	1966	USBR

Source: DNRC, 2018. Notes: DNRC = Montana Dept. of Natural Resources and Conservation; HOA = Home Owners Association; NA = Not Available; USBR = U.S. Bureau of Reclamation.

Cooney Dam and reservoir are located on Red Lodge Creek in Carbon County, approximately seven miles west of the Town of Boyd. The dam is owned by the Montana DNRC. The earth-fill dam is 102 feet in height, has a crest length of 2,369 feet, and impounds 28,230 acre-feet of water at full pool. The water is used for supplemental irrigation on approximately 20,000 acres. The original dam was completed in 1937 and rehabilitated in 1982 to meet current dam safety standards. Cooney Dam is classified as a high-hazard dam with potential to inundate portions of Laurel and Billings in both a probable maximum flood and clear weather breach scenario.

The Yellowtail Dam and Reservoir are located in Bighorn Canyon in Big Horn County. The dam is a concrete thin-arch dam, 525 feet high and 1,480 feet long. As the crow flies, the dam is 45 miles southeast of Billings and 11 miles above the Bighorn's junction with the Yellowstone River at Custer, near the east boundary of Yellowstone County. The dam's hydroelectric plant has a capacity of 250 mega-watts.

Vulnerability and Area of Impact

Cove Creek and Little Cove Creek drainages west of Billings present flood threats to the city and developing areas. Cove Creek begins at the crossing of U.S. Highway 302 near the Yellowstone Country Club. The natural drainage for Cove Creek has been obliterated by agricultural development south of Rimrock Road. Consequently, the flood waters tend to spread laterally along the topographic depressions as they head southward toward the area known as Hogans Slough. Little Cove Creek also ends

in an agricultural area which drains to Hogans Slough. While there is no defined channel, this agricultural area is crisscrossed with irrigation canals and ditches along roads. Overland flow occurs from the floodwaters of Cove and Little Cove Creeks and flow into the Hogans Slough drainage area.

A floodplain management study for Cove Creek, Little Cove Creek and Hogan's Slough was completed in 2010 (PBS&J, 2010). The study evaluated the existing flood storage capacity and projected retention area requirements to contain a 100-year flood event in West Billings. It also evaluated the feasibility of alternatives to mitigate flood impacts in this area and assessed the potential of the mitigation measures providing groundwater recharge in the West Billings area. This report is included in **Appendix D**.

The *Yellowstone County Flood Insurance Study* (FEMA, 2013) identifies the following areas as vulnerable to flooding:

- Yellowstone River and Clarks Fork of the Yellowstone related to development within the floodplain and uncertified levees throughout the river's floodplain,
- Cove Creek and Little Cove Creek in West Billings, due to undefined flood channels and intersecting irrigation and drain ditches,
- Italian Ditch and Main Street in Laurel due to intersecting ditches and undersized culverts and crossings for roadways.

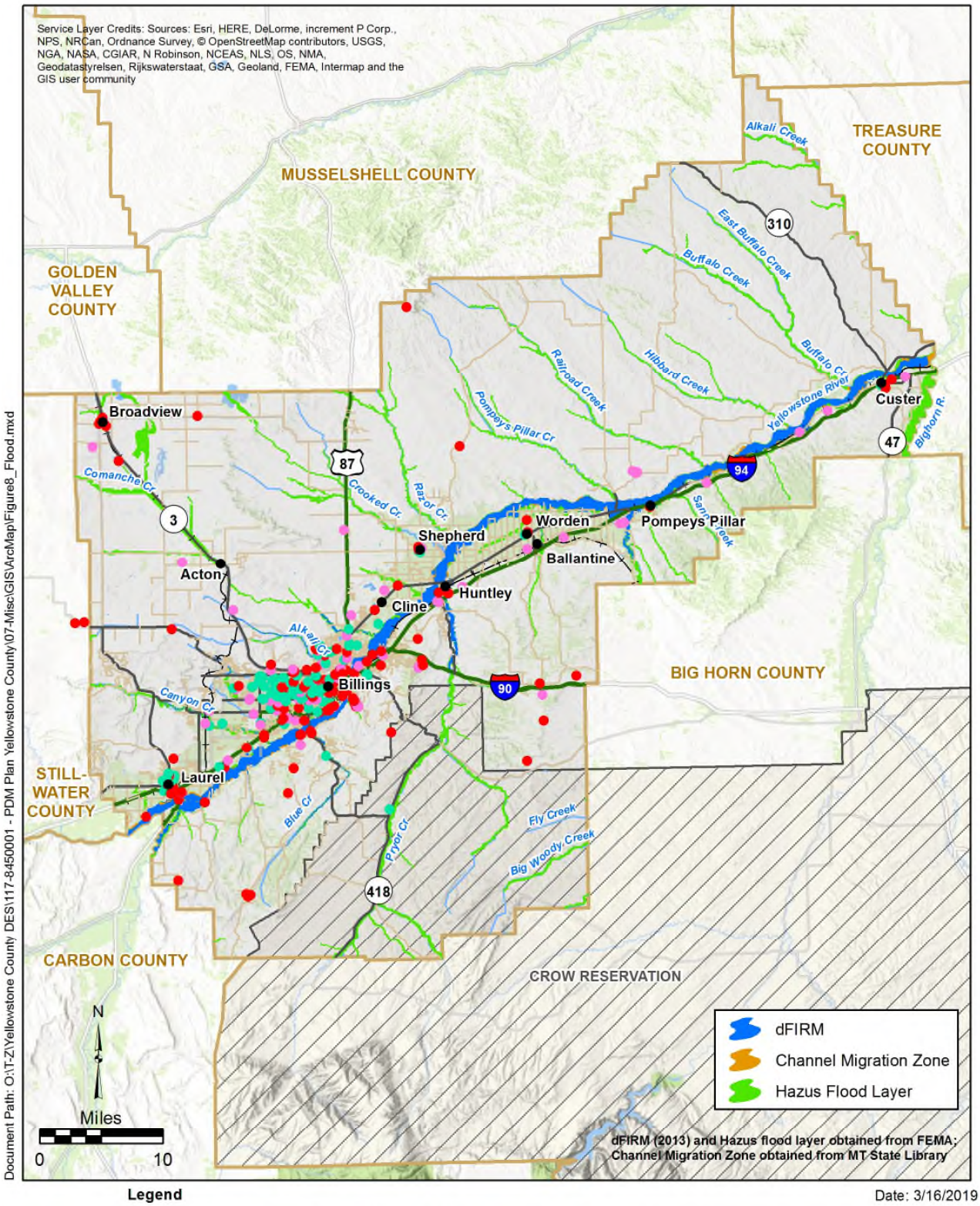
The MHMP Planning Team identified several other flood issues that impact Yellowstone County:

- Dry washes flood after heavy thunderstorms or rapid snowmelt. In particular, Basin Creek funnels into a narrow valley and where there is a subdivision.
- There is a limited storm water infrastructure through downtown Billings to manage sheet-flow flooding through the urban area. Larger diameter storm sewers are being installed but flash flooding will still be problematic because the new sewers feed into smaller diameter drain lines. Billings Clinic has suffered extensive damage from surface flooding. The basement of the Yellowstone Art Museum has flooded because of seepage through older foundation walls.

Figures 8 through 8D present the flood hazard impact area developed for the MHMP for Yellowstone County, Billings, Laurel, and Broadview/Worden, respectively. These maps are a compilation of the regulated floodplains from digital flood insurance rate maps (DFIRMs), channel migration maps of the Yellowstone River, and a Hazards of the United Stated (HAZUS) model of the 100-year floodplain completed by FEMA in 2010. The HAZUS scenario was for a simulated 100-year flood using National Elevation Dataset, a flood frequency discharge table that references a specific discharge per return period for a given point (stream gage derived) and regression equations used between stream gage areas.

Figures 9 through 9C show the dam failure hazard impact areas used for the MHMP analysis. These consist of the inundation areas, available from EAPs, of the high hazard dams that could impact Yellowstone County, Billings, and Laurel, respectively. No EAP was available for the Lakeside Dam, and therefore, that inundation area is not included in the dam failure hazard impact area. Areas directly downstream from high hazard dams would be most at risk for loss of life and structural damage from dam failure. Dam failures can potentially cause massive flooding and losses.

1



Legend

- Place Name
- Critical Facility
- School/Senior Facility
- Cell Tower
- Primary Route
- Secondary Route
- Other Route
- Railroad
- River/Stream
- Lake
- County
- Crow Reservation

Date: 3/16/2019

Figure 8
Flood Hazard Area
Yellowstone County, Montana
Multi-Hazard Mitigation Plan

1

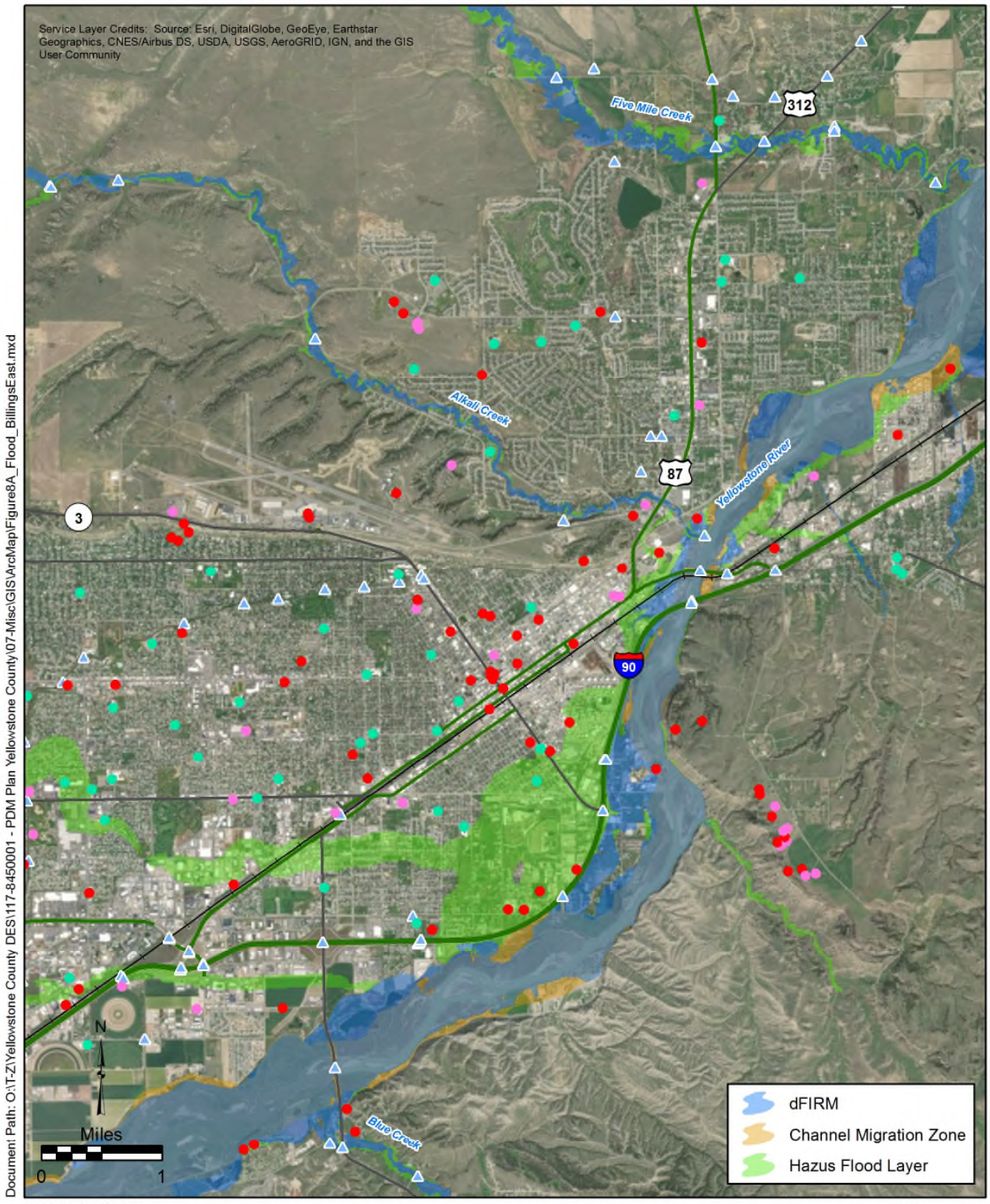


Figure 8A
Flood Hazard Area - Billings East
Yellowstone County, Montana
Multi-Hazard Mitigation Plan

1

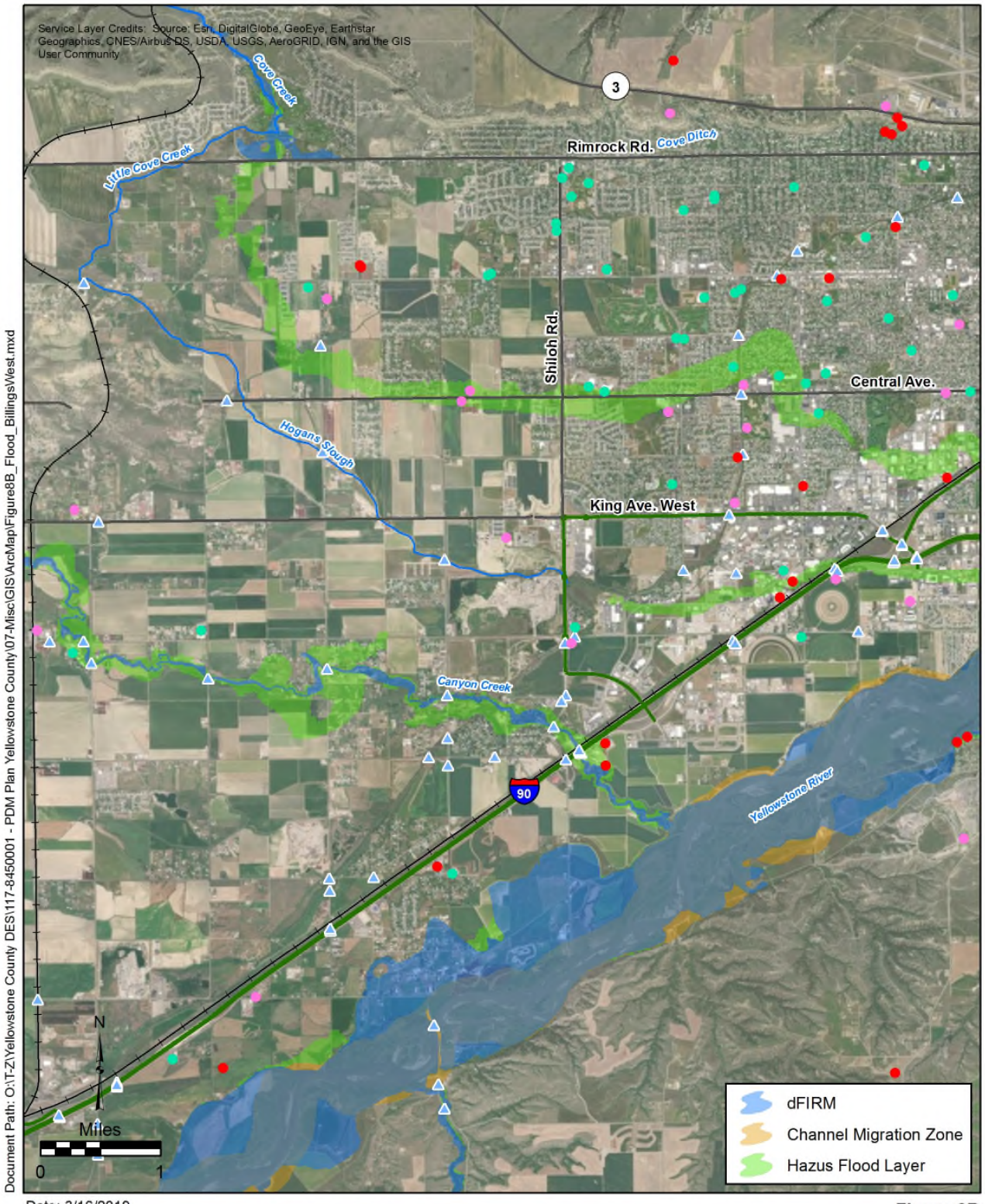


Figure 8B
Flood Hazard Area - Billings West
Yellowstone County, Montana
Multi-Hazard Mitigation Plan

Legend

- Critical Facility
- School/Senior Facility
- Cell Tower
- Bridge
- Primary Route
- Secondary Route
- Railroad
- River/Stream

1

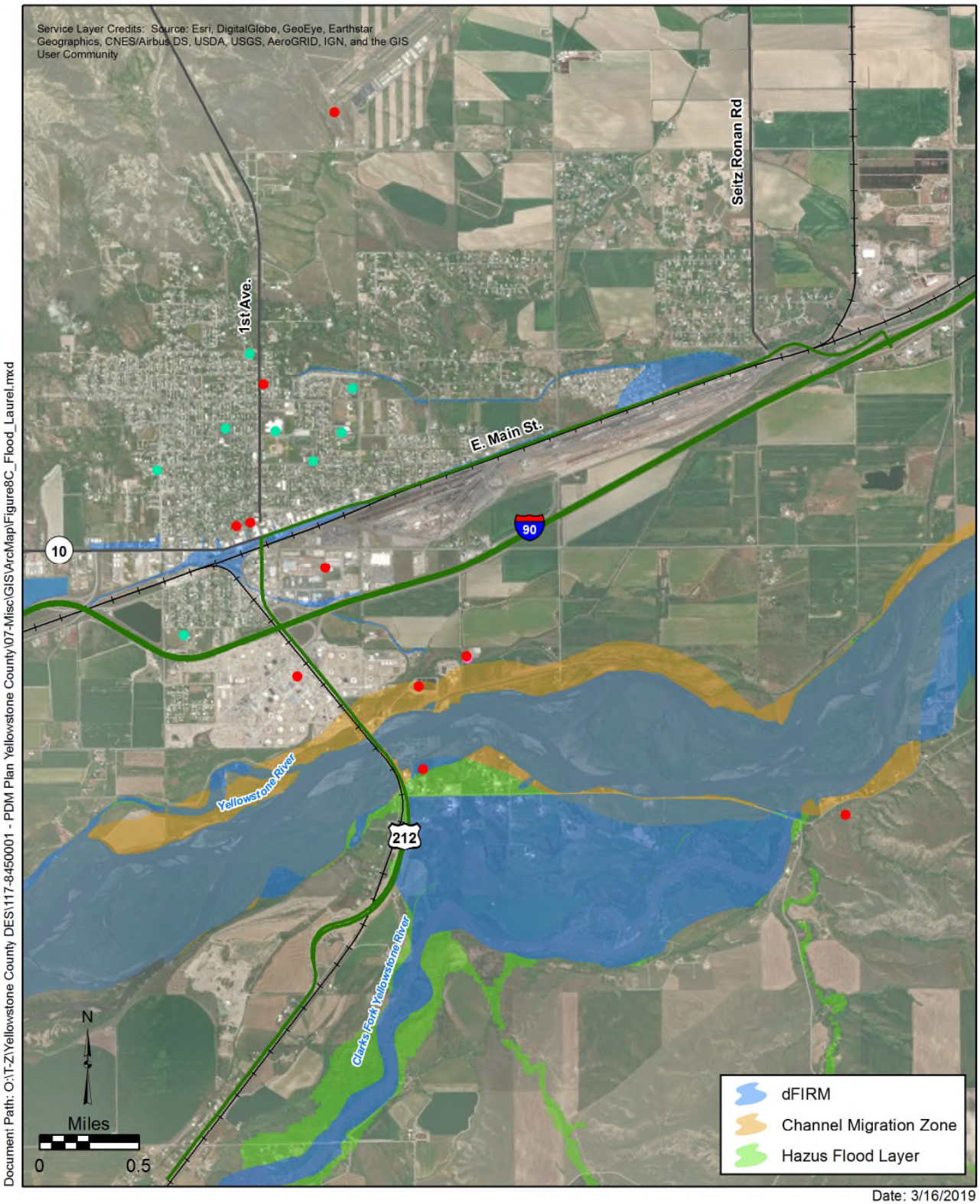


Figure 8C
Flood Hazard Area - Laurel
Yellowstone County, Montana
Multi-Hazard Mitigation Plan

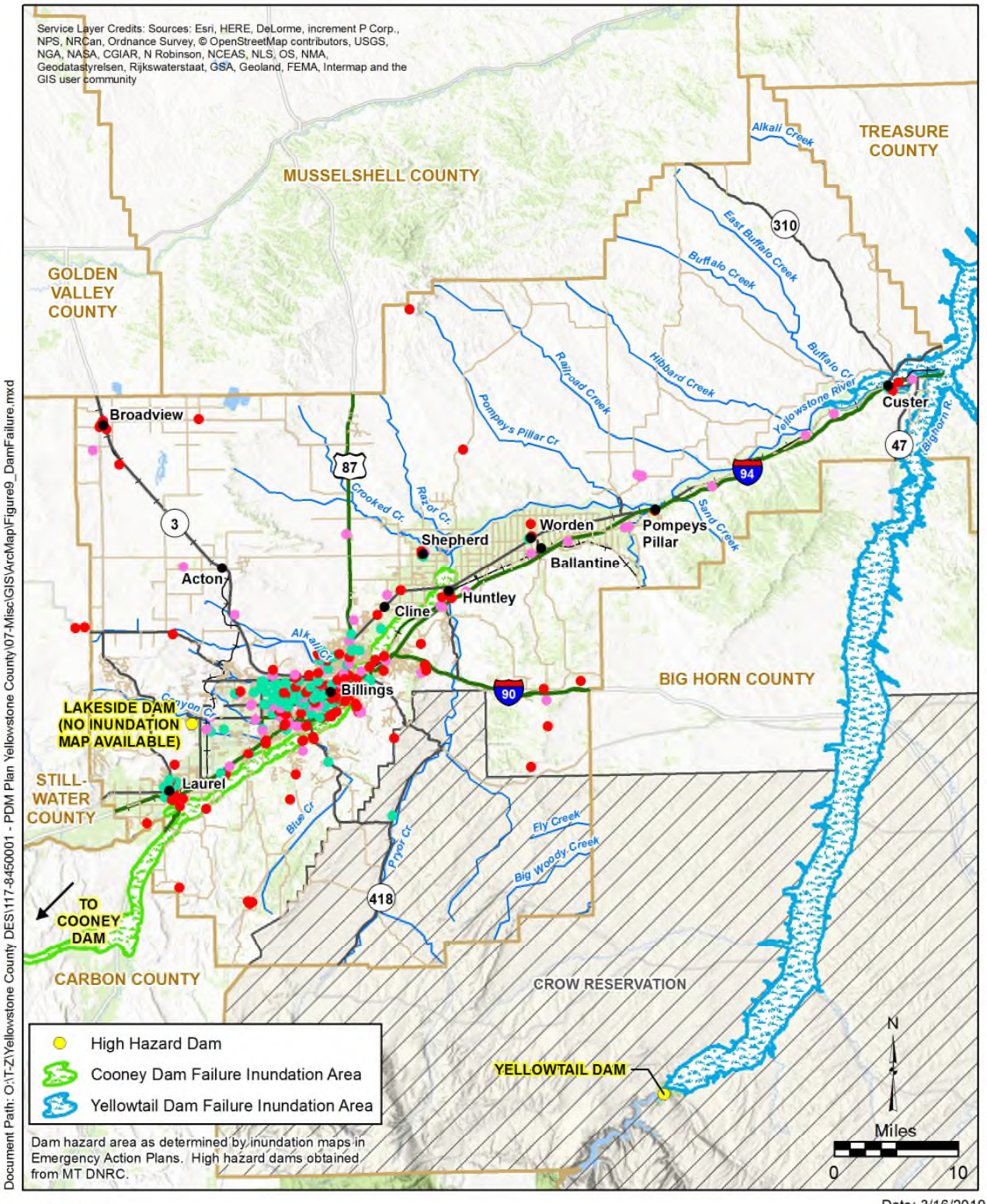
Legend

- Critical Facility
- School/Senior Facility
- Cell Tower
- Primary Route
- Secondary Route
- Railroad

1

Figure 8D
Flood Hazard Area
Towns of Broadview & Worden
Yellowstone County, Montana
Multi-Hazard Mitigation Plan

1



Date: 3/16/2019

Legend

- Place Name
- Critical Facility
- School/Senior Facility
- Cell Tower
- Primary Route
- Secondary Route
- Other Route
- Railroad
- River/Stream
- County
- Crow Reservation

Figure 9
Dam Failure Hazard Area
Yellowstone County, Montana
Multi-Hazard Mitigation Plan

1

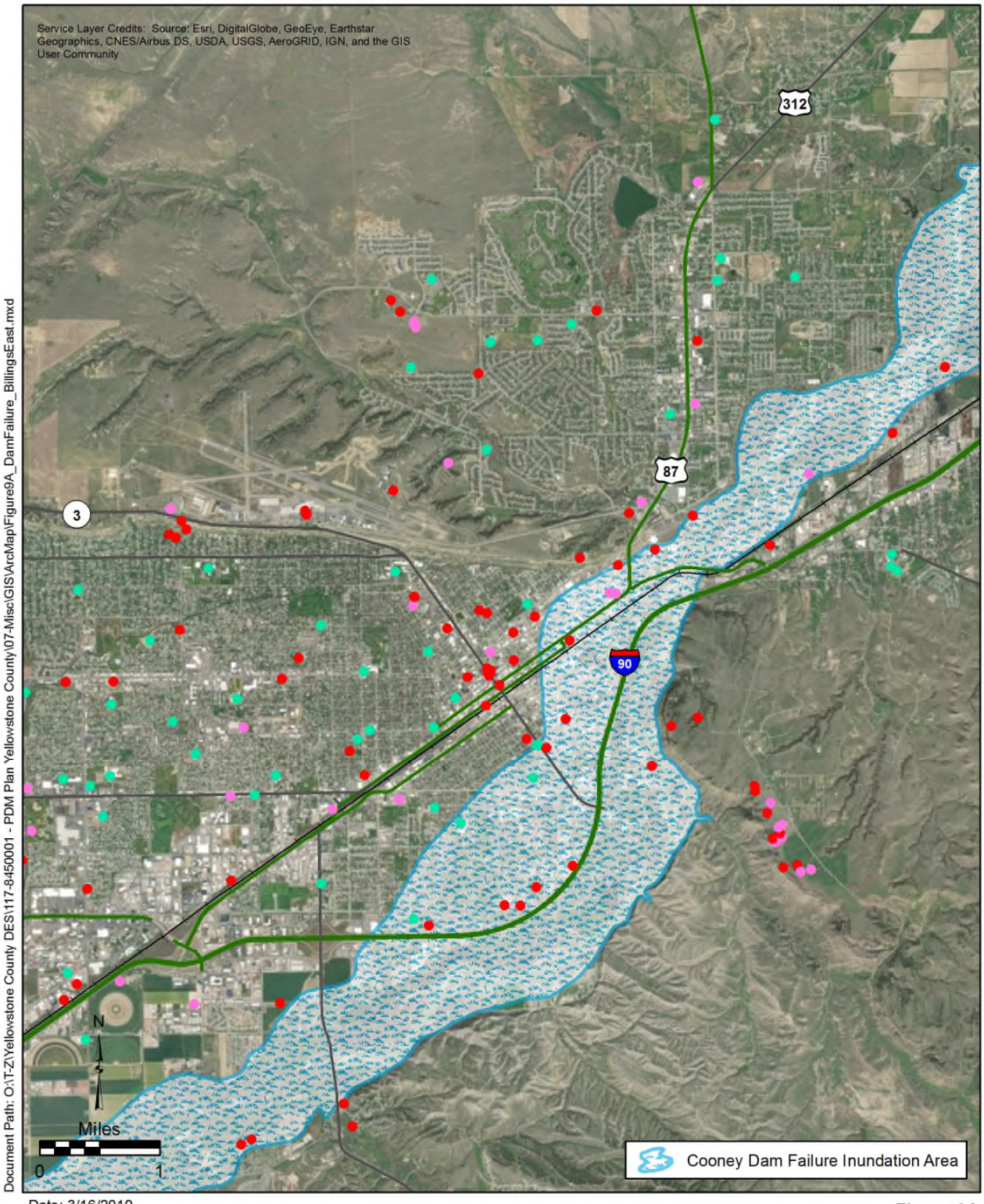
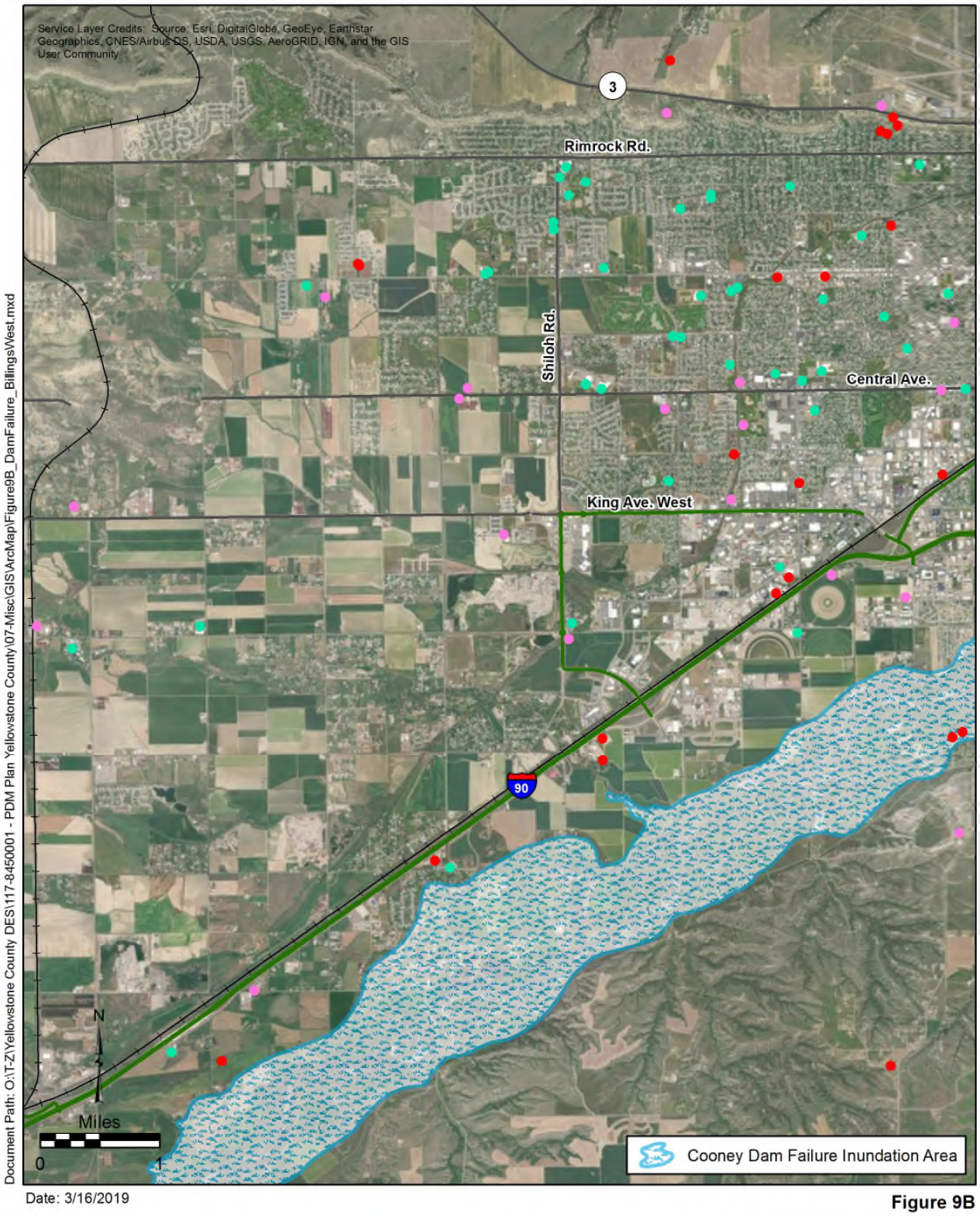


Figure 9A
Dam Failure Hazard Area - Billings East
Yellowstone County, Montana
Multi-Hazard Mitigation Plan

1

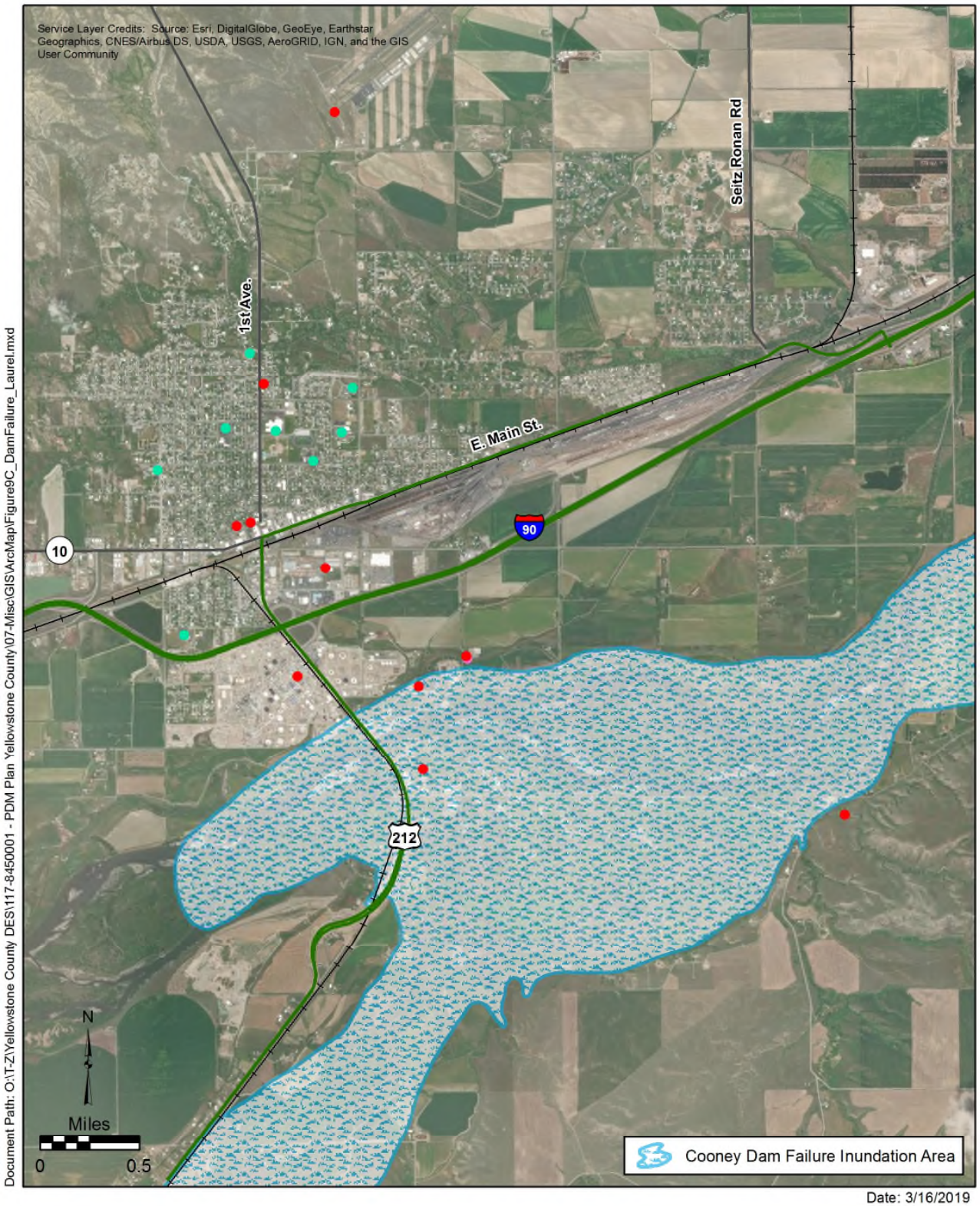


Legend

Critical Facility
Cell Tower
Primary Route
School/Senior Facility
Railroad
Secondary Route

Figure 9B
Dam Failure Hazard Area - Billings West
Yellowstone County, Montana
Multi-Hazard Mitigation Plan

1



Date: 3/16/2019

Figure 9C
Dam Failure Hazard Area - Laurel
Yellowstone County, Montana
Multi-Hazard Mitigation Plan

Legend

- Critical Facility
- School/Senior Facility
- Cell Tower
- Railroad
- Primary Route
- Secondary Route

Flood Protection Measures

The *Yellowstone County Flood Insurance Study* (FEMA, 2013) describes flood protections, as follows. Approximately 14,573,600 acres of land lie within the 100-year floodplain in Yellowstone County. This figure has decreased over the past 50 years as flood protection measures, such as levees, streambank stabilization, and diversion structures have increased. The effects of these actions, especially bank stabilization, have been to channel floodwaters away from the adjacent floodplain and route them downstream. As this happens, the volume of water and flow velocities increase resulting in greater damage to downstream banks and channels that are not protected.

No levees in Yellowstone County have been certified as per 44 CFR 65.10. Flood protection measures on the Yellowstone River have been limited to constructing local levees to protect specific improvements. However, reports of high flows from upstream points on the Yellowstone River and the Clarks Fork Yellowstone River give at least one-day warning of large floods.

Structural measures in Alkali Creek were completed in 1977 to protect the area downstream of Highway 87. The measure included a bypass channel through a narrow rimrock bluff and a diversion dam across Alkali Creek approximately 1,200 feet downstream from Highway 87. The bypass channel was designed to handle 7,200 cfs and has a capacity to convey 15,000 cfs when the Yellowstone River is at flood stage.

Uncertified levees have also been placed around the wastewater treatment plant at the mouth of Alkali Creek and extend upstream along the Yellowstone River to Highway 87. These levees protect against a 500-year flood, although since the levees are not certified, flooding is shown on the landward side of the levees.

Alkali Creek has a small channel, which is deeply etched in a narrow floodplain high in the plateau northwest of Billings. It flows easterly past the northern edge of Billings and enters the Yellowstone River east of the fairgrounds. A bypass channel and diversion dam divert the stream from its natural course in the area of the fairgrounds downstream of Highway 87. The new channel lies east of the fairgrounds, to the west of the wastewater treatment plant, and includes an energy dissipater in the area of diversion. The diversion dam and bypass channel eliminate the flooding in the area of the fairgrounds.

Flood protection measures in Laurel are limited and include no major structures. A storm sewer, which was constructed in 1979 on First Street, intercepts runoff from the city north of First Street. Cove, High, and Big Ditches intercept and convey runoff from several drainages located north of Laurel; however, the degree of protection they provide cannot be estimated because it is dependent on many variables, including the discharges in each ditch.

Floodplain and Floodway Management

According to the *Yellowstone County Flood Insurance Study* (FEMA, 2013), drainages that have a designated 100-year floodplain include Alkali Creek, Arrow Creek, Blue Creek, Canyon Creek, Clarks Fork of the Yellowstone River, Cove Creek, Cove Creek East Overflow, Dry Creek, Duck Creek, Duck Creek Tributary, Five-Mile Creek, Fly Creek, Italian Ditch, Main Street Overflow, Nutting Ditch, Pryor Creek, Unnamed Creek, West Main Street Overflow, and the Yellowstone River. Proposed developments within the 100-year floodplain of these drainages require a floodplain development permit. Yellowstone County DES administers the county Floodplain Hazard Management Regulations

and the Building Division administers the regulations for the City of Billings. The floodplain administrator for the City of Laurel is a contracted position.

DFIRMs are available for some of the regulated floodplain in Yellowstone County. FEMA's RISK Map program continues to fund floodplain mapping in Yellowstone County and areas of Cove Creek that are currently under development.

The National Flood Insurance Program encourages local governments to adopt "sound" floodplain management programs to reduce private and public property losses due to floods. Yellowstone County and the cities of Billings and Laurel participate in the NFIP. The Town of Broadview does not participate in the NFIP. **Table 4.7-5** presents statistics on flood insurance policies and losses.

Table 4.7-5. National Flood Insurance Program Statistics (through 5/31/2018)

Jurisdictions	Policies in Force	Insurance in Force	Number of Losses	Total Payments
City of Billings	118	$29,933,000	82	$355,409
City of Laurel	9	$1,614,500	17	$98,833
Yellowstone County	239	$59,996,400	121	$777,408

Source: FEMA, 2018. http://bsa.nfipstat.fema.gov/reports/1011.htm#MTT and /reports/1040.htm#30.

A repetitive loss property is any insurable building for which two or more claims of more than $1,000 were paid by the NFIP within any rolling 10-year period, since 1978. There are five repetitive loss properties in Yellowstone County and six within the City of Billings (**Table 4.7-6)**. There are no repetitive loss properties in the City of Laurel. Severe repetitive loss properties have had at least four NFIP claim payments over $5,000 each and the cumulative amount exceeding $20,000; or, where at least two separate claim payments have been made with the cumulative amount exceeding the market value of the building. There are no severe repetitive loss properties in Yellowstone County, Billings, or Laurel.

Table 4.7-6. Yellowstone County NFIP Repetitive Losses as of 3/31/2018

Community	RL Buildings	RL Buildings Insured	RL Losses Total	RL Losses Insured	$ Losses Total	$ Losses Insured
Billings, City of	6	1	13	2	$72,744	$8,863
Yellowstone County	5	2	16	7	$331,726	$109,092
TOTAL	**11**	**3**	**29**	**9**	**$404,470**	**$117,955**

Source: FEMA, 2018. Notes: RL = Repetitive Loss.

RL Buildings = Total number of properties.
RL Buildings Insured = Total number of properties that are currently insured.
RL Losses Total = Total number of losses for the properties.
RL Losses Insured = Total number of losses for the properties that are currently insured.
$ Losses Total = Total payments on losses for the properties.
$ Losses Insured = Total payments on losses for the properties that are currently insured.

The NFIP's Community Rating System (CRS) recognizes community efforts (beyond minimum standards) by reducing flood insurance premiums for the community's property owners. CRS discounts on flood insurance premiums range from 5 percent up to 45 percent. Those discounts provide an incentive for new flood protection activities that can help save lives and property in the event of a flood. To participate in the CRS, a community can choose to undertake some of the 18- public information and floodplain management activities. Based on the total number of points a community earns, the CRS assigns you to one of 10 classes. Your discount on flood insurance

premiums is based on your class. Yellowstone County participates in the CRS program and has a rating of 8 with offers a 10 percent discount on most flood insurance policies. Neither the City of Billings nor the City of Laurel participate in the CRS.

Probability and Magnitude

MHMP Planning Team members reported that the Billings Clinic has incurred over $4.7 million in damages from flash flooding. Floods with associated property damage in Yellowstone County from the SHELDUS database are presented in **Table 4.7-7**.

Table 4.7-7 Yellowstone County Flood Events with Damages

Month/ Year	Injuries	Fatalities	Property Damage (2016 $)	Crop Damage (2016 $)	Month/ Year	Injuries	Fatalities	Property Damage (2016 $)	Crop Damage (2016 $)
3/1969	0	0	$5,841	$0	1/1993	0	0	$121	$0
2/1971	0	0	$11,604	$0	6/1993	0	0	$1,208	$0
6/1972	0	0	$5,621	$0	3/1994	0	0	$21,140	$21,140
5/1988	0	0	$3,443	$0	2/1995	0	0	$501	$0
8/1989	0	0	$98,538	$9,854	6/2010	0	0	$3,025,864	$0
5/1991	0	0	$1,346	$0	5/2011	0	1	$325,919	$0
6/1991	0	0	$165,752	$120,063	**TOTAL**	**0**	**1**	**$3,666,897**	**$151,057**

Source: SHELDUS, 2017 (adjusted to 2016 dollars). Note: Often casualties and damage information are listed without sufficient spatial reference. In order to assign the damage amount to a specific county, the fatalities, injuries and dollar losses were divided by the number of counties affected from this event.

The flood hazard impact map used for the MHMP analysis, as shown on **Figures 8 through 8D,** was a combination of DFIRM maps available for Yellowstone County, a HAZUS model completed by FEMA in 2010. The results of the vulnerability analysis are presented in **Table 4.7-8**.

Table 4.7-8. Yellowstone County Vulnerability Analysis; Flooding

Category	Yellowstone Co. (balance)	Billings (City)	Laurel (City)	Broadview (Town)
Residential Property Exposure $	$228,228,645	$311,300,755	$2,164,881	$0
# Residences at Risk	1,519	2,008	78	0
Commercial, Industrial & Agricultural Property Exposure $	$91,134,979	$413,836,135	$8,487,187	$0
# Commercial, Industrial & Agricultural Properties at Risk	238	225	15	0
Critical Facilities Exposure Risk $	$76,778,530	$486,608,621	$0	$0
# Critical Facilities at Risk	13	12	0	0
Bridge Exposure $	$78,175,090	$24,964,400	$140,000	$0
# Bridges at Risk	102	17	1	0
Persons at Risk	2,300	3,080	114	0
Persons Under 18 at Risk	895	1,201	45	0
Persons Over 65 at Risk	699	992	31	0

The GIS analysis indicates that 81,662 acres in Yellowstone County (4.8 percent) are located within the 100-year flood hazard area including: 3,605 residences, 478 commercial, industrial and agricultural buildings, and xx critical facilities. In Billings, 2,008 residences, 225 commercial and industrial structures, and 12 critical facilities are at risk. The *Flood* section in **Appendix B-4** presents the critical facilities and bridges located in the 100-year flood hazard area.

The probability of future flooding in Yellowstone County and its jurisdictions is high. While most of the affected area is non-developed farm and ranch land, the communities of Laurel and Billings have experienced most of the damage to buildings and infrastructure. As the urban area expands more structures are built in areas potentially susceptible to flooding, reducing permeable land surface and further exacerbating stormwater runoff.

The weather patterns in the region suggest a continued propensity toward receiving large amounts of moisture over short periods of time, and rapid snow melt resulting from dramatic temperature changes. With the Yellowstone River and the large number of smaller tributary streams, future flooding events will be inevitable.

Based on the frequency of past events, the probability of flooding in Yellowstone County is rated as "likely"; an event that occurs less than once per year but more than once every 10 years. MHMP Planning Team members indicated that riverine flooding is limited to three times a decade while flash floods that cause road closures occur every third year.

The dam failure hazard impact area is a compilation of inundation area of high hazard dams affecting Yellowstone County, as available (**Figures 9 through 9C).** The MHMP analysis used the same methodology as described above under flooding. Results are shown in **Table 4.7-9**.

Table 4.7-9. Yellowstone County Vulnerability Analysis; Dam Failure

Category	Yellowstone Co. (balance)	Billings (City)	Laurel (City)	Broadview (Town)
Residential Property Exposure $	$133,488,415	$163,037,436	$179,900	$0
# Residences at Risk	1,249	1,288	1	0
Commercial, Industrial & Agricultural Property Exposure $	$63,137,572	$384,950,935	$828,714	$0
# Commercial, Industrial & Agricultural Properties at Risk	165	314	1	0
Critical Facilities Exposure Risk $	$76,236,001	$500,744,450	$0	$0
# Critical Facilities at Risk	12	15	0	0
Bridge Exposure $	$43,571,692	$23,034,800	$0	$0
# Bridges at Risk	17	12	0	0
Persons at Risk	1,901	2,036	2	0
Persons Under 18 at Risk	740	794	1	0
Persons Over 65 at Risk	593	793	0	0

The GIS analysis indicates that 32,043 acres in Yellowstone County (1.9 percent) are located in the dam inundation hazard area including 2,538 residences, 480 commercial, industrial and agricultural buildings, and xx critical facilities. In Billings, 1,288 residential structures would be at risk, 314

commercial and industrial structures, and 15 critical facilities. The *Dam Failure* section in **Appendix B-4** presents supporting documentation from the risk assessment including the critical facilities and bridges located in the dam inundation hazard area.

The probability of failure of a high hazard dam impacting Yellowstone County was rated as "unlikely" by the MHMP Planning Team.

Future Development

Yellowstone County and the Cities of Billings and Laurel prohibit the development of future properties within flood-prone areas under their subdivision regulations. Building is not allowed within the regulated 100-year floodplain, or areas deemed subject to flooding, or if any portion of a proposed subdivision is within 2,000 horizontal feet and less than 20 vertical feet of a live stream draining an area of 25 square miles or more. Even within existing lots, new development within the 100-year floodplain requires a floodplain permit which generally prohibits new structures unless they can meet flood proofing requirements. In addition, subdivision regulations require flood hazard assessments in areas that may be subject to flooding but are outside regulated floodplains. Floodplain Hazard Management Regulations, administered by the county and cities, outline conditions were permits are needed for development in the floodway.

Climate Change

Many scientists agree that climate change will increase heavy rainfall and storms across the U.S., which will result in elevated water levels that may lead to a higher frequency of flooding. The Montana Climate Assessment (Whitlock C., et.al., 2017) provides a well-referenced discussion on the effects of climate change on flooding, as summarized below.

Across Montana, precipitation is projected to increase in winter, spring, and fall. The largest increases are expected to occur during spring in the southern part of the state. Warming will continue to reduce mountain snowpack, and this could reduce flood risk related to rain-on-snow events by reducing the quantity of water available for release stored as snow. Warming is also likely to increase the amount of winter and spring precipitation that falls as rain (particularly in rain-snow transition zones), which will accelerate snowmelt and could increase flood risk, depending on snowpack, soil moisture, and other conditions. As such, rising temperatures alone will influence flood risk, regardless of trends in precipitation; yet the effects will likely be location- and event-specific and therefore, difficult to predict.

Some research suggests that extreme precipitation events can actually intensify more quickly than what is projected by general circulation models. Additionally, flood risk depends on specific storm characteristics that are difficult to capture in most models. Moreover, the particular effects of projected changes in temperature and precipitation on flood risk will depend on location, elevation, and weather conditions, as well as human practices (Whitlock C., et.al, 2017).

Population, property, and critical facility flood exposure may increase as a result of climate change. Runoff patterns may change resulting in flooding in areas where it has not previously occurred with an increased risk to facilities that have not historically flooded.

The significance of increased flooding is great. Besides impacting communities, destroying homes, and causing deaths, floods can cause drinking water to become contaminated. Floods can also cause hazards such as disease-carrying animals and spills of chemicals or other hazardous materials. Overall, if flooding is to increase from climate change it will also pose risks to people's health and to entire communities.

Small changes in rainfall, runoff, and snowpack conditions may have significant impacts for water resource systems, including dams. Dams are designed partly based on assumptions about a river's flow behavior, expressed as hydrographs. Changes in weather patterns can have significant effects on the hydrograph used for the design of a dam. If the hygrograph changes, it is conceivable that the dam can lose some or all of its designed margin of safety, also known as freeboard. If freeboard is reduced, dam operators may be forced to release increased volumes earlier in a storm cycle in order to maintain the required margins of safety. Such early releases of increased volumes can increase flood potential downstream.

Dams are constructed with safety features known as "spillways." Spillways are put in place on dams as a safety measure in the event of the reservoir filling too quickly. Spillway overflow events, often referred to as "design failures," result in increased discharges downstream and increased flooding potential. Although climate change will not increase the probability of catastrophic dam failure, it may increase the probability of design failures.

Population and property exposure to the dam failure hazard are not likely to change significantly as a result of climate change. The potential increase in probability of dam failure would not likely impact additional areas not already identified on inundation maps with the exception of spillway shadows which are not always captured on inundation maps. Dam owners and operators may need to alter maintenance and operations to account for changes in the hydrograph and increased sedimentation.

4.8 Communicable Disease

CPRI SCORE =2.8

Description and History

Communicable diseases, sometimes called infectious diseases, are illnesses caused by organisms such as bacteria, viruses, fungi and parasites. Sometimes the illness is not due to the organism itself, but rather a toxin that the organism produces after it has been introduced into a human host. Communicable disease may be transmitted (spread) either by: one infected person to another, from an animal to a human, from an animal to an animal, or from some inanimate object (doorknobs, table tops, etc.) to an individual. A pandemic is a global disease outbreak. Human diseases, particularly epidemics, are possible throughout the nation and Yellowstone County is not immune to this hazard. In addition, livestock and animal disease could have a devastating effect on the economy and food supply in Yellowstone County and beyond. Highly contagious diseases are the most threatening to both populations.

Human diseases when on an epidemic scale, can lead to high infection rates in the population causing isolation, quarantines and potential mass fatalities. Diseases that have been eliminated from the U.S. population, such as smallpox, could be used in bioterrorism. The following list gives examples of biological agents or diseases that could occur naturally or be used by terrorists as identified by the Centers for Disease Control and Prevention (2018). These diseases/biological agents can infect populations rapidly, particularly through groups of people in close proximity such as schools, assisted living facilities, and workplaces.

Category A

Definition - The U.S. public health system and primary healthcare providers must be prepared to address various biological agents, including pathogens that are rarely seen in the United States. High-priority agents include organisms that pose a risk to national security because they:

- Can be easily disseminated or transmitted from person to person;
- Result in high mortality rates and have the potential for major public health impact;
- Might cause public panic and social disruption; and
- Require special action for public health preparedness.

Agents/Diseases:

- Anthrax (Bacillus anthracis)
- Botulism (Clostridium botulinum toxin)
- Plague (Yersinia pestis)
- Smallpox (variola major)
- Tularemia (Francisella tularensis)
- Viral hemorrhagic fevers (filoviruses [e.g., Ebola, Marburg] and arenaviruses [e.g., Lassa, Machupo])

Category B

Definition - Second highest priority agents include those that:

- Are moderately easy to disseminate;
- Result in moderate morbidity rates and low mortality rates; and
- Require specific enhancements of CDC's diagnostic capacity and enhanced disease surveillance.

Agents/Diseases:

- Brucellosis (Brucella species)
- Epsilon toxin of Clostridium perfringens
- Food safety threats (e.g., Salmonella species, Escherichia coli O157:H7, Shigella)
- Glanders (Burkholderia mallei)
- Melioidosis (Burkholderia pseudomallei)
- Psittacosis (Chlamydia psittaci)
- Q fever (Coxiella burnetii)
- Ricin toxin from Ricinus communis (castor beans)
- Staphylococcal enterotoxin B
- Typhus fever (Rickettsia prowazekii)
- Viral encephalitis (alphaviruses [e.g., Venezuelan equine encephalitis, eastern equine encephalitis, western equine encephalitis])
- Water safety threats (e.g., Vibrio cholerae, Cryptosporidium parvum)

Category C

Definition - Third highest priority agents include emerging pathogens that could be engineered for mass dissemination in the future because of:

- Availability;
- Ease of production and dissemination; and
- Potential for high morbidity and mortality rates and major health impact.

Agents:

- Emerging infectious diseases such as Nipah virus and hantavirus

Historically, the Spanish influenza outbreak after World War I in 1918-1919 caused 9.9 deaths per 1,000 people in the State of Montana (Brainerd and Siegler, 2002). Historical records from newspapers show that the influenza outbreak was so bad in 1918 that residents were quarantined from November 30 to December 17 after 18 people died and 53 new cases were discovered.

Influenza is a highly contagious viral infection of the nose, throat, and lungs that occurs most often in the late fall, winter, and early spring. It is a serious infection that affects between 5-20 percent of the U.S. population annually. Each year, more than 200,000 individuals are hospitalized and 3,000-49,000 deaths occur from influenza-related complications (IDSA, 2016). The Montana Dept. of Public Health and Human Services (DPHHS), maintains statistics of influenza cases in Montana counties. Between influenza season 2012-2013 and 2013-2014 the methodology of reporting changed from # of cases to # of hospitalized individuals which resulted in a significant increase in numbers reported. Recent data for Yellowstone County is summarized below.

- 2013-2014 season: 509 influenza cases in Yellowstone Co. with 8 fatalities across the State.
- 2014-2015 season: 642 influenza cases in Yellowstone Co. with 24 fatalities across the State.
- 2015-2016 season: 444 influenza cases in Yellowstone Co. with 33 fatalities across the State.
- 2016-2017 season: 877 influenza cases in Yellowstone Co. with 56 fatalities across the State.
- 2017-18 season: 1,086 influenza cases in Yellowstone Co. with 79 fatalities across the State.

Swine influenza, also known as H1N1 influenza or pandemic influenza 2009 is an infection. It is not the same as seasonal flu. The first outbreak occurred in 2009 and infected people all over the world, including Yellowstone County. It was called swine flu early on because tests showed that it was like flu viruses that occur in pigs.

Norovirus is the leading cause of illness and outbreaks from contaminated food in the United States. Most outbreaks happen when infected people spread the virus to others. Health care facilities, including nursing homes and hospitals, are the most reported settings for norovirus outbreaks.

West Nile virus is spread by insects, most often mosquitoes. It can infect humans, birds, mosquitoes, horses, and some other mammals. West Nile Virus can lead to severe fever, encephalitis (brain inflammation) or meningitis (inflammation of the protective membrane covering the brain and spinal cord). Some years are worse than others, but it is not uncommon for West Nile Virus to infect a few people in Yellowstone County.

The Montana DPHHS manages a database of reportable communicable disease occurrences. A summary for Yellowstone County for the years 2007 to 2016 is presented in **Table 4.8-1.**

Table 4.8-1. Yellowstone County Communicable Disease Summary; 2007 - 2016

Disease	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Vaccine Preventable Diseases										
Hepatitis A, acute	1	-	2	-	-	1	-	2	-	-
Hepatitis C, acute	-	-	1	-	-	3	4	3	6	12
Meningitis, Viral	5	3	2	19	14	16	-	-	-	-
Meningococcal	1	2	-	-	-	-	-	3	-	-
Pertussis	5	7	18	13	9	56	57	36	9	1
Strep Pneumonia	-	-	1	2	-	-	5	13	10	8
Tuberculosis	-	-	-	-	1	-	-	-	1	-
Varicella	5	-	5	1	-	2	4	1	2	2
Enteric Diseases										
Campylobacteriosis	17	9	12	25	18	27	24	25	34	46
Cryptosporidiosis	24	-	1	2	1	2	39	3	2	2
Giardia	10	9	10	7	5	7	3	6	2	13
Salmonella	18	21	13	13	10	13	16	22	52	23
Shiga-toxin *E. coli*	5	7	4	1	3	-	10	1	13	14
Other Communicable Diseases										
Coccidiomycosis	3	-	-	-	1	-	-	2	2	1
Shigellosis	2	-	-	-	2	5	16	4	1	-
Rabies	5	3	8	4	4	1	1	-	-	14
STD	482	599	404	482	580	617	695	798	956	744
Tick Fever, Lyme	1	4	2	-	-	-	11	-	2	2
West Nile Virus	27	-	-	-	-	-	-	1	-	4

Source: Montana DPHHS Communicable Disease Summaries, 2007 – 2016; Notes: STD = Sexually Transmitted Disease (Chlamydia, Gonorrhea, Syphilis, HIV).

According to the Montana Dept. of Livestock, known livestock and animal diseases such as Foot and Mouth, Bovine Spongiform Encephalopathy (Mad Cow Disease), Exotic Newcastle, Rabies, Scabies, and Brucellosis could have damaging effects on the livestock population. Losses from these diseases would be devastating and could have an economic effect county-wide.

Vulnerability and Area of Impact

Diseases threaten the population, plants, and animals of Yellowstone County as opposed to structures. The entire population is at risk for contracting disease. The more urban nature of Billings makes it more vulnerable to rapidly spreading and highly contagious diseases compared to other more rural parts of the county. In addition, tourist visits in the county could introduce a disease to the local population. The number of fatalities in the county would depend on the mortality (disease/agent attack) rate and the percentage of the population affected. The ability to control the spread of disease will be dependent on the contagiousness of the disease and movement of the population.

Awareness has been growing in recent years about zoonotic diseases— that is, diseases that are transmissible between animals and humans, such as Lyme disease and West Nile virus. The rise of such diseases results from closer relationships among wildlife, domestic animals, and people, allowing more contact with diseased animals, organisms that carry and transmit a disease from one animal to another (vectors), and people. Disease vectors include insects, such as mosquitoes, and arachnids, such as ticks.

Probability and Magnitude

The probability of an epidemic in Yellowstone County is difficult to assess based on history and current data. Individual infectious diseases will likely be reported on an annual basis giving this hazard a probability rating of "highly likely". The MHMP Planning Team rated the probability as "likely" that a communicable disease outbreak would impact Yellowstone County.

The magnitude of a communicable disease outbreak varies from common viral outbreaks to widespread bacterial infection. During the 1918 influenza pandemic, infection rates approached 28 percent in the U.S. (Billings, 1997). Other pandemics produced infection rates as high as 35 percent of the total population (World Health Organization, 2009). Such a pandemic affecting Yellowstone County represents a severe magnitude event. Almost any communicable disease that enters the regional population could overwhelm local health resources as would any rapidly spreading bioterrorism event for which there is no available vaccine or containment capability.

While the U.S. saw an Ebola outbreak in 2014, news of an Ebola virus for the state of Montana was minimal. Montana DPHHS said the likelihood of Ebola showing up in Montana is small.

Montana's local and state public health officials are monitoring developments regarding Zika virus closely. At this time, the impact of Zika in Montana will likely be confined to individuals returning from or planning travel to Zika-affected areas and Montana's mosquitoes are not expected to be able to transmit the virus.

Future Development

There are no land use regulations for future development that could impact the communicable disease hazard. New residents and population add to the number of people threatened in the county, but the location of such population increases would not increase their vulnerability to the hazard.

Climate Change

The effects of climate change on the disease hazard is mainly to the population. Outbreaks of insect- and water-borne infection associated with higher temperatures could increase population exposure; especially vulnerable would be the young and elderly. With higher temperatures, harmful algal blooms are more apt to form on lakes which could expose swimmers to cyanobacteria known to cause Alzheimer's, ALS, and other neurological diseases. Property and critical facilities are not expected to have an increase in disease exposure or vulnerability due to the effects of climate change.

Although some evidence indicates that warming may be causing infectious disease to spread, predicting how climate change will ultimately influence the incidence of diseases transmitted by insects remains challenging. More predictable as climate change unfolds is the spread of waterborne infections. These infections most often cause diarrheal illness and flourish in the wake of heavy rainfalls as runoff from land enters into and may contaminate water supplies. Many pathogens that cause diarrheal disease reproduce more quickly in warmer conditions as well (Harvard School of Public Health, 2016).

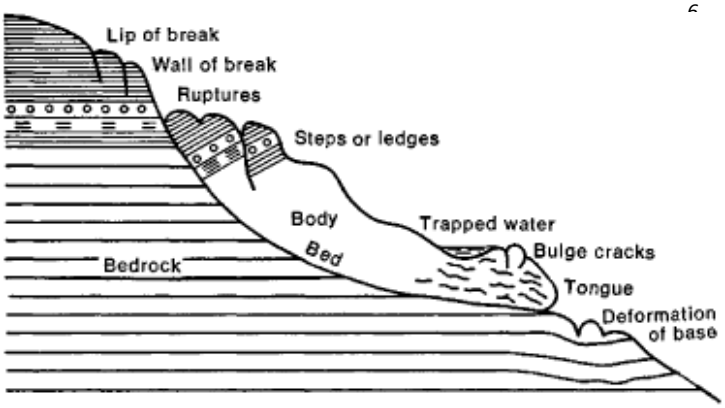
Warmer water temperatures are likely to cause the habitat ranges of many fish species to shift, which could disrupt ecosystems. Fisheries will be affected by changes in water temperature that make waters more hospitable to invasive species and shift the ranges or lifecycle timing of certain fish species (EPA, 2017).

4.9 Landslide / Rock Fall

CPRI SCORE = 2.3

Description and History

A landslide is the movement of a soil and/or rock mass down a slope. Any area composed of very weak or fractured materials resting on a steep slope can and likely will experience landslides. Landslides or debris flows, are often difficult to distinguish from flash floods and possess similar destructive potential and rapid onset. Debris flows generally occur during periods of intense rainfall or rapid snowmelt. They usually start on steep hillsides as shallow slides that liquefy and accelerate. The consistency of debris flow range from watery mud to thick, rocky mud that can carry large items such as boulders, trees and cars. When the flow reaches flatter ground, debris can spread over a broad area, sometimes accumulating in thick deposits. Any given mass movement is triggered by a single event. The two most common triggers are earthquakes and heavy rainfall.



A rock fall refers to quantities of rock falling freely from a cliff face. A rock fall is a fragment of rock (a block) detached by sliding, toppling, or falling, that falls along a vertical or sub-vertical cliff, proceeds down slope by bouncing and flying along ballistic trajectories or by rolling on talus or debris slopes. Favorable geology and climate are the principal causal mechanisms of rock fall, factors that include intact condition of the rock mass, discontinuities within the rock mass, weathering susceptibility, ground and surface water, freeze-thaw, root-wedging, and external stresses.

Slope failure occurs when the gravitational force of slope materials exceed resisting forces due to strength, friction, and cohesion of the supporting materials. Slope properties, such as steepness, layering, fracturing of materials, or lack of vegetation, can make them inherently susceptible to failure. Factors such as moisture, overloading, and undercutting, can make matters worse. These factors can occur naturally or are induced by development activity. Slope failures are distinguished by five types: falls or free drops from steep cliffs; slides or movement of unconsolidated materials along slip surfaces of shear failure; slumps or movements of consolidated materials along the surface of shear failures; flows; and the slow or rapid fluid-like movement of soils and other unconsolidated materials. Very slow down-slope flow of soil is referred as creep. The average flow rate of materials can range from a fraction of an inch to 4 to 5 inches a week. Factors that influence creep include growing vegetation, freezing and thawing, and burrowing animals. Lateral spreads may occur on flat or gently sloping land due to liquefaction of underlying materials.

The terrain in Yellowstone County has some potential for landslides, rock fall, and slope failure. The greatest area of concern is in the Billings area below the Rims. The Billings rimrocks are comprised of sandstone cliffs formed by the resistant Eagle Formation. Several recent rock fall incidents have damaged public infrastructure and private homes, as described below. There have been no fatalities due to the landslide/rock fall hazard in Yellowstone County.

October 2010 – No one was hurt when a huge boulder crashed through the back of a house at 1313 Granite Ave. in Billings. A wet spot just below the top of the rimrocks showed where a large slab of sandstone fell off the side of the Rims. It broke into dozens of pieces when it hit the earth below, and the largest piece slammed through the back of a wooden house. The rock fall caused a noise described as thunder or an explosion and the dust cloud was larger than the Rims. Billings Gazette, *Billings Home Demolished by Falling Rock*, October 9, 2010).

May 2014 – Two rock falls during March led to the closure of Zimmerman Park. The park was closed for approximately two months until a stabilization project was completed, and the city road crew repaired the guardrail and damaged pavement. The MT Dept. of Transportation paid a contractor over $700,000 for a rock removal and stabilization project at six locations along Zimmerman Trail. Rock slide areas were also identified at Swords Park and several hundred tons of rock were removed to mitigate rocks from falling onto Sixth Avenue North. Billings Gazette *Zimmerman Park Closed after Boulders Tumble off Edge*, May 12, 2014).

May 2016 – Phipps Park, on Molt Road west of Billings, was forced to close after a rock slide. A park user witnessed the rockslide and said a large portion of the rock just separated from the rimrock. A geotechnical survey was done of the area and existing trails in the rock fall zone were re-routed. Billings Gazette *Phipps Park Will Remain Closed to Reroute Trail, Remove Disc Golf Course*, July 7, 2016).

June 2018 – A resident was lying in bed when she heard the roaring noise of about 150 yards of sandstone cliff face breaking free from the rimrocks and rolling towards her house below. The rock slide smashed through her garage on the 220 block of Mountain View Boulevard and covered roughly 75 yards of road below the Rims with rocks and debris. No one was injured. (Billings Gazette, *Rock Slide Dislodges Boulder 'As Big as A House,' Smashes Billings Garage*, June 26, 2018).

Vulnerability and Area of Impact

According to the City of Billings Growth Policy (2016), the greatest potential hazards associated with unstable geologic conditions are rock falls and mass failure. These potential hazards correlate with steep slopes composed of sandstone and shale bedrock. A particularly hazardous condition is created where sandstone beds overlie shale horizons on steep slopes. Natural weathering processes weaken and erode shale layers more rapidly than sandstone layers. As the shale beds weaken, gravitational forces exceed cohesional forces in the rock, resulting in slope failure.

Evidence of past landslides is an important indicator of a high probability of future hazards. Unpublished documentation of landslides in Yellowstone County identified 200 sites of slope failure.

Probability and Magnitude

The landslide/rock fall hazard area used for the MHMP analysis consisted of mapped landslide areas from surficial geology datasets downloaded from the Montana Bureau of Mines and Geology, and slopes over 25 percent which are identified by the Yellowstone County Subdivision Regulations as requiring a geotechnical investigation for residential development. **Figures 10 through 10B** present the landslide/rock fall hazard impact areas in Yellowstone County and Billings, respectively.

The landslide / rock fall hazard area was intersected with the critical facility and general building stock database to determine exposure. Population exposure was calculated using U.S. Census county estimates. **Table 4.9-1** presents the results of the landslide vulnerability analysis.

Table 4.9-1. Yellowstone County Vulnerability Analysis; Landslide / Rock Fall

Category	Yellowstone Co. (balance)	Billings (City)	Laurel (City)	Broadview (Town)
Residential Property Exposure $	$11,840,794	$210,427,827	$0	$0
# Residences at Risk	40	858	0	0
Commercial, Industrial & Agricultural Property Exposure $	$0	$9,483,893	$0	$0
# Commercial, Industrial & Agricultural Properties at Risk	0	10	0	0
Critical Facilities Exposure Risk $	$7,468,588	$5,092,159	$0	$0
# Critical Facilities at Risk	1	4	0	0
Bridge Exposure $	$0	$0	$0	$0
# Bridges at Risk	0	0	0	0
Persons at Risk	59	1,293	0	0
Persons Under 18 at Risk	23	504	0	0
Persons Over 65 at Risk	15	430	0	0

The GIS analysis indicates that there are almost 7,915 acres prone to landslides and rock falls in Yellowstone County including 898 residences, 10 commercial, industrial, and/or agricultural buildings, and 5 critical facilities. The *Landslide/Rock Fall Section* in **Appendix B-4** presents supporting documentation from the vulnerability analysis.

Based on the frequency of landslide/rock fall events in Yellowstone County, the MHMP Planning Team rated the probability for a more significant event in the future as "likely". City officials indicated that inspection of vulnerable areas of the Rims in Billings is required every two to three years to avert a catastrophe.

1

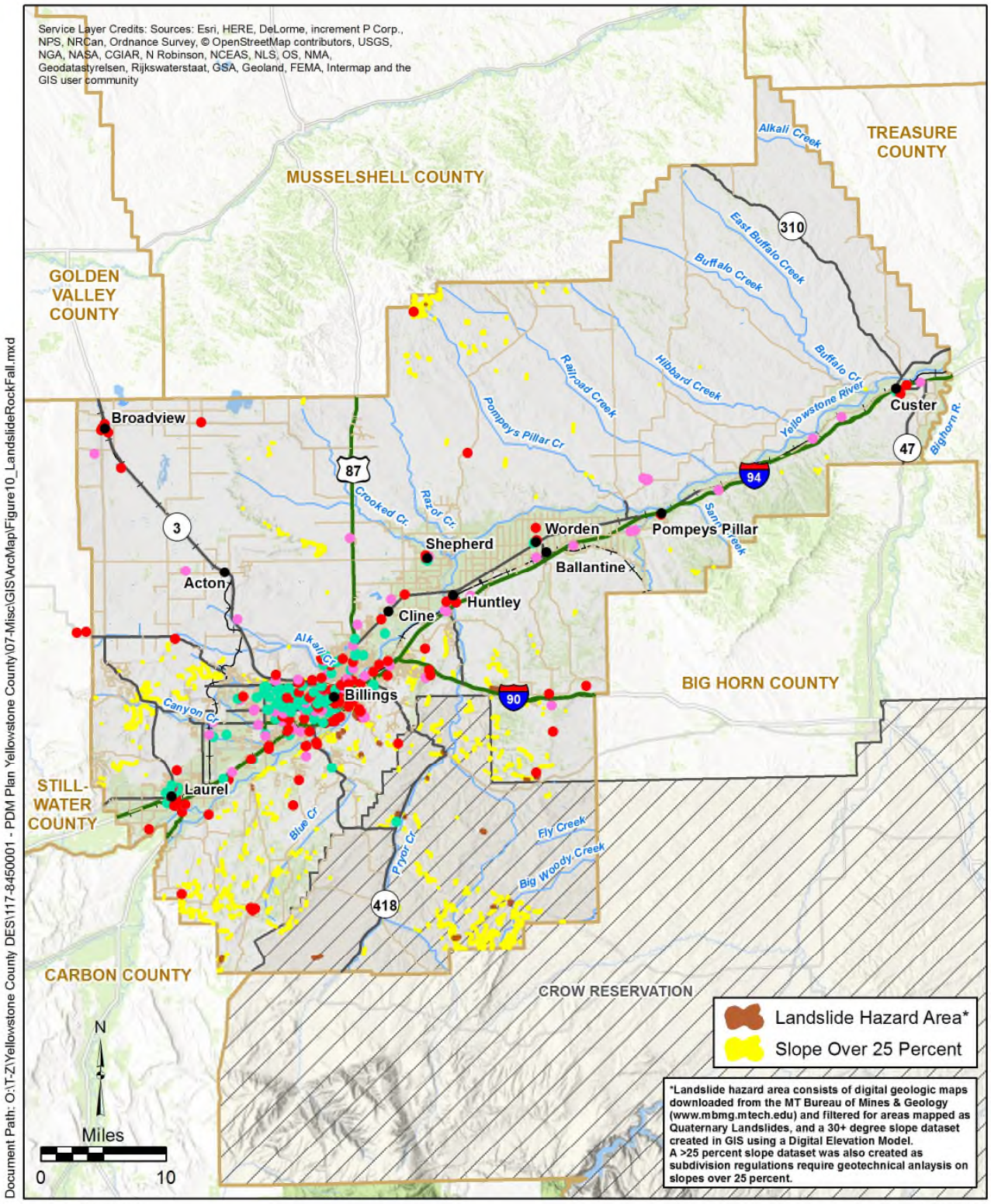


Figure 10
Landslide / Rock Fall Hazard Area
Yellowstone County, Montana
Multi-Hazard Mitigation Plan

1

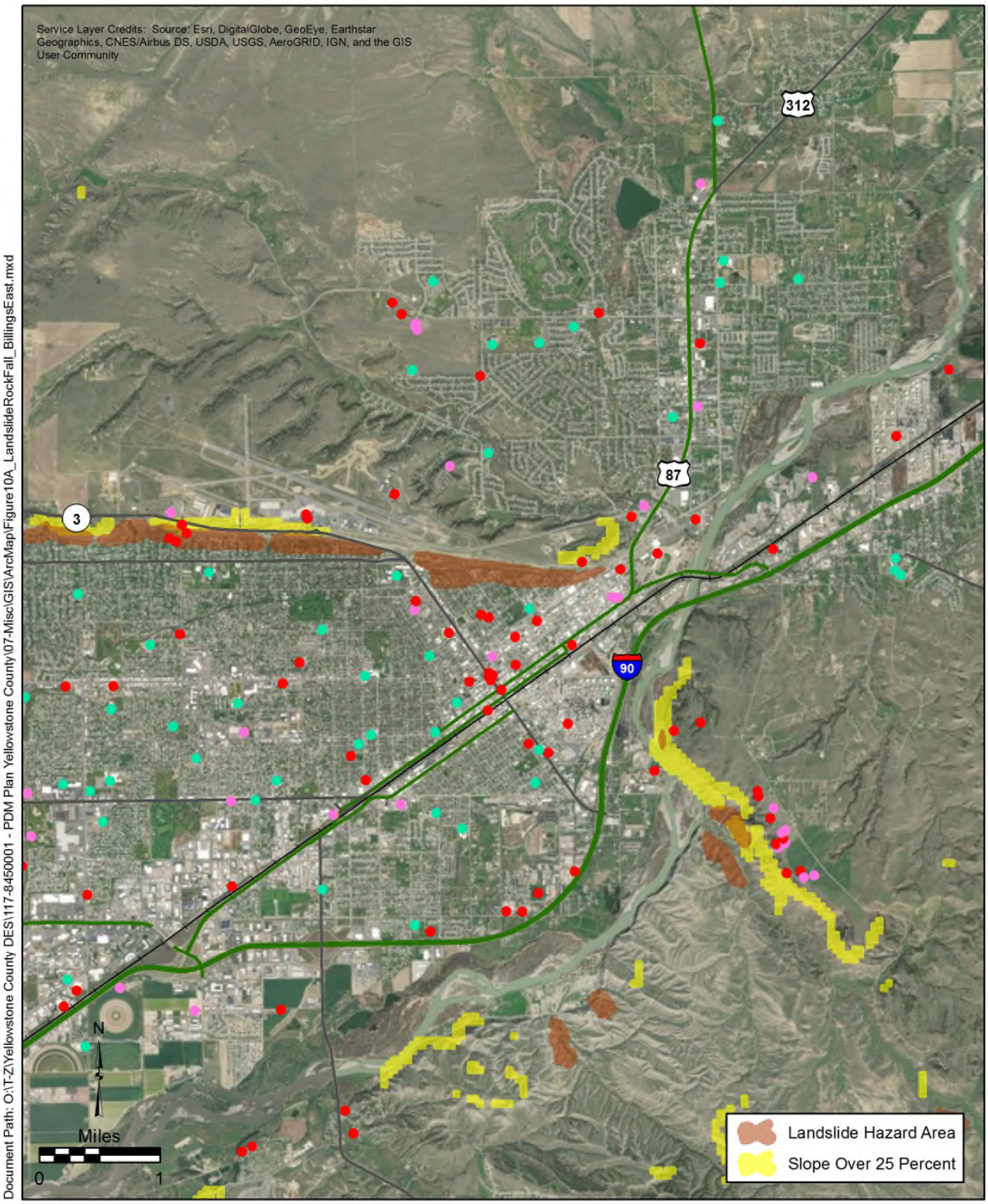
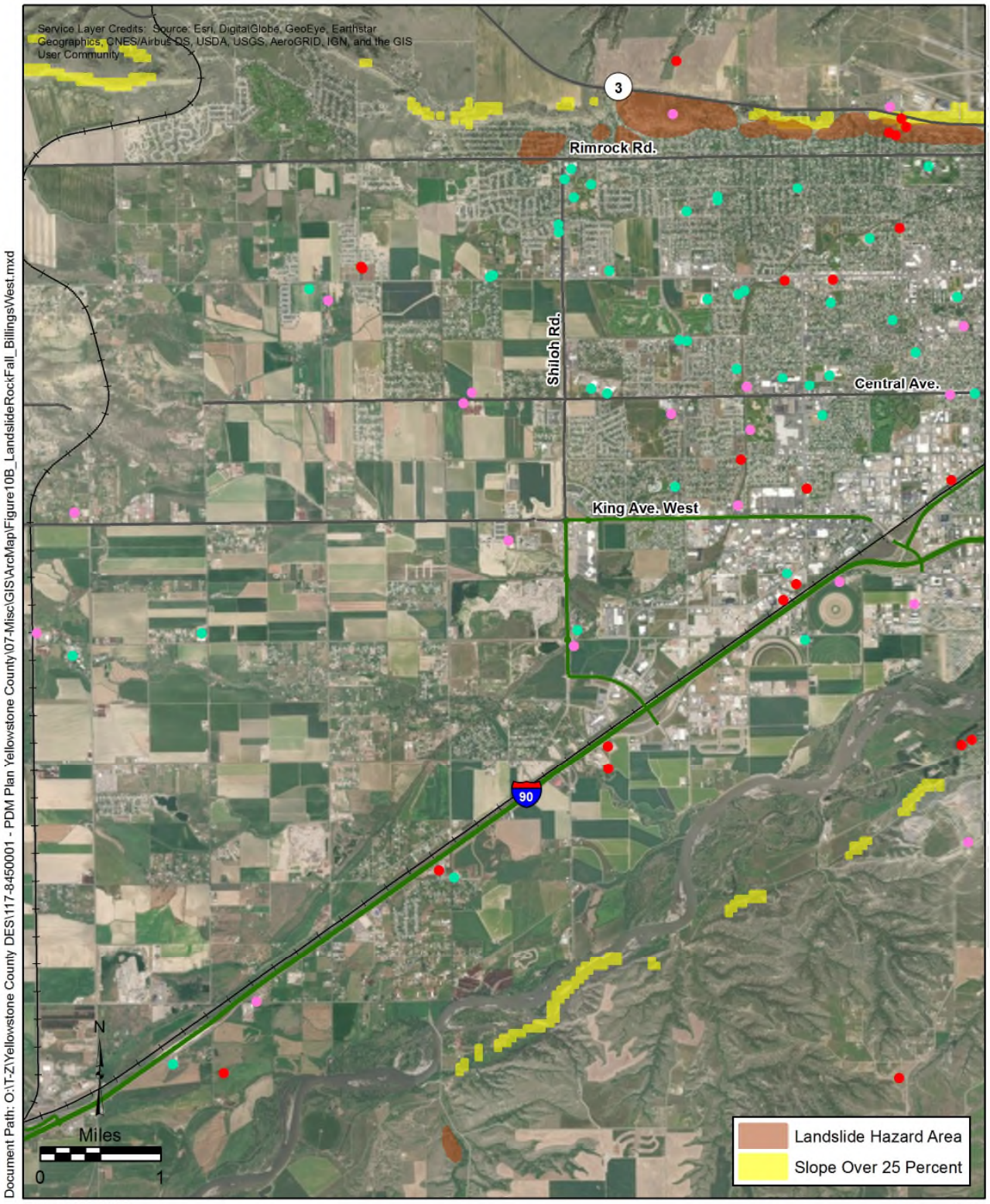


Figure 10A
Landslide / Rock Fall Hazard Area - Billings East
Yellowstone County, Montana
Multi-Hazard Mitigation Plan

1



Legend

- Critical Facility
- School/Senior Facility
- Cell Tower
- Primary Route
- Secondary Route
- Railroad

Figure 10B
Landslide / Rock Fall Hazard Area - Billings West
Yellowstone County, Montana
Multi-Hazard Mitigation Plan

Future Development

It is the responsibility of those who wish to develop their property to assess the degree of hazard in their selection of development sites. Although the physical cause of many landslides/rock falls cannot be removed, geologic investigations, good engineering practices, and effective enforcement of land-use management standards can reduce landslide hazards.

Both the Yellowstone County and City of Billings subdivision regulations stipulate that if the City-County Planning Board finds any portion of a parcel of land proposed to be subdivided unsuitable for subdivision because of landslide, steep slopes, or rock falls hazards they will not recommend approval of the subdivision unless the hazards are eliminated or overcome through approved design and construction plans. An environmental assessment is required that considers geology/soils/slopes by overlaying any known geologic hazards affecting the proposed subdivision which could result in property damage or personal injury due to rock falls, landslides, or slopes greater than 25 percent and an explanation of the measures to be taken to prevent or materially lessen the danger of future property damage or injury due to existing geologic hazards. Areas of lots with more than 25 percent grade for building sites shall be subject to a geotechnical analysis.

Climate Change

Landslides represent a major threat to human life, constructed facilities and infrastructure in most mountainous regions of the world. Considering future climate scenarios and modified precipitation patterns, the landslide activity will most probably change too. More precipitation now falls as rain rather than snow in northern regions and, as a consequence, more landslides are expected to occur. It is expected that shallow slips and debris flows will take place more frequently as a consequence of more extreme weather events. (https://globalwarmingisreal.com/2014/04/03/landslides-and-climate-change-north-america/)

4.10 Risk Assessment Summary

This section summarizes the results of the individual risk assessments presented under the hazard profiles. There have been five repetitive loss properties due to flooding in Yellowstone County, and six in the City of Billings. The City of Laurel has no repetitive loss properties due to flooding. Neither Yellowstone County, Billings, Laurel, nor Broadview have had repetitive loss properties associated with other hazards.

Composite Hazard Map and Future Development

Growth policies for Yellowstone County (2008), the City of Billings (2016) and the City of Laurel (2013) were reviewed for potential future development projects. The MHMP Planning Team also weighed in on future development projects that had the potential to be constructed in the next five years. **Figures 11 through 11D** present potential future development projects with the composite of hazard prone areas in Yellowstone County, Billings, Laurel, and Broadview/Worden, respectively. The composite hazard map is an overlay of the impact areas for wildfire, ditch and drain failure, flooding, dam failure, hazardous material incident, and landslide/rock fall hazards. **Table 4.10-1** indicates which hazards each of the future development areas are exposed to.

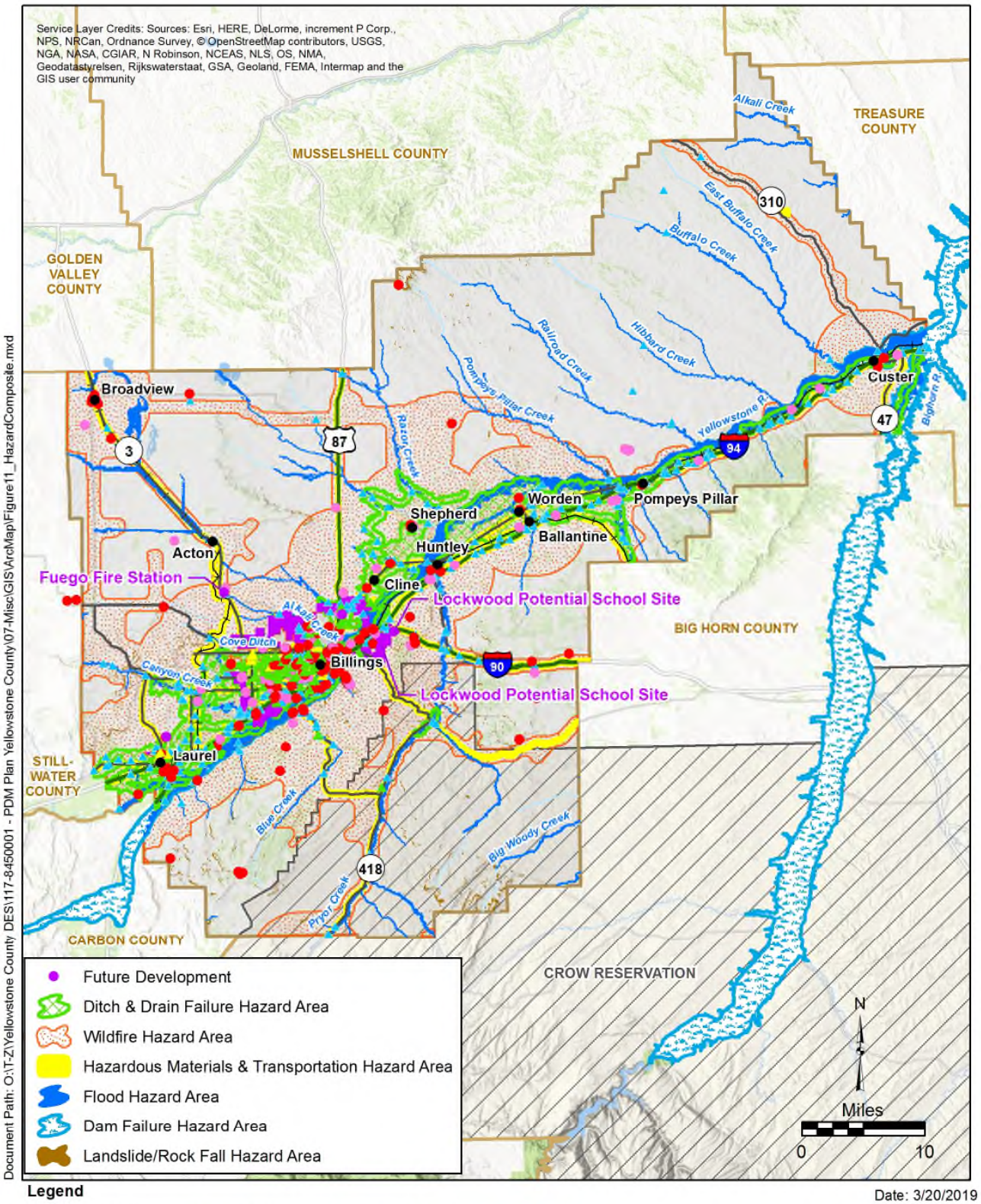
Future development projects are listed in **Table 4.10-1** which indicates which hazards each of the future development areas are exposed to. **Figures 11 through 11D** show the location of each project on the composite hazard map.

Table 4.10-1. Future Development Summary

Proposed Project	Hazard Areas							
	Severe Weather & Drought	Wildfire	Ditch & Drain Failure	Terrorism, Cyber Security	Haz-Mat & Transp. Accidents	Flooding & Dam Failure	Com. Disease	Landslide/ Rock Fall
Lockwood – New High School	Yes	Yes	No	Yes	Yes	No	Yes	No
Billings Heights –Fire Station #8	Yes	Yes	No	Yes	Yes	No	Yes	No
Fuego Fire Station	Yes	Yes	No	Yes	Yes	No	Yes	No
West Billings Water Treatment Plant	Yes	Yes	Yes	Yes	Yes	No	Yes	No
Billings-Logan Airport Expansion	Yes	Yes	No	Yes	Yes	No	Yes	No
Laurel - MT Army National Guard Helicopter Base	Yes	Yes	No	Yes	No	No	Yes	No
Lockwood TEDD Industrial Park	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Billings City Hall	Yes	No	No	Yes	Yes	No	Yes	No
South Billings Aquatics/Rec Center	Yes	No	Yes	Yes	Yes	No	Yes	No

Vulnerability Analysis - Loss Estimation Summary

Estimating potential losses and calculating risk requires evaluating where hazard areas and vulnerabilities to them coincide, how frequently the hazards occur, and then estimating the magnitude of damage resulting from a hazard event. Rather than estimating loss, a vulnerability assessment was completed which estimates building stock exposure. *Section 4.1* presents the methodology for the vulnerability assessment completed for the 2019 MHMP. **Tables 4.10-2 through 4.10-5** present the results of the vulnerability assessment for each hazard for residential and commercial/industrial/agricultural structures, critical facilities, bridges, and population in Yellowstone County, Billings, Laurel, and Broadview, respectively. **Appendix B-4** contains supporting information.


Service Layer Credits: Sources: Esri, HERE, DeLorme, increment P Corp., NPS, NRCan, Ordnance Survey, © OpenStreetMap contributors, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community
MUSSELSHELL COUNTY
TREASURE COUNTY
GOLDEN VALLEY COUNTY
STILL-WATER COUNTY
CARBON COUNTY
BIG HORN COUNTY
CROW RESERVATION
Broadview
Acton
Fuego Fire Station
Shepherd
Huntley
Cline
Worden
Ballantine
Pompeys Pillar
Billings
Laurel
Custer
Lockwood Potential School Site
Lockwood Potential School Site
Alkali Creek
East Buffalo Creek
Buffalo Creek
Hibbard Creek
Railroad Creek
Pompeys Pillar Creek
Razor Creek
Yellowstone R.
Bighorn R.
Cove Ditch
Canyon Creek
Blue Creek
Big Woody Creek
Pryor Creek
3
87
310
47
94
90
418
Future Development
Ditch & Drain Failure Hazard Area
Wildfire Hazard Area
Hazardous Materials & Transportation Hazard Area
Flood Hazard Area
Dam Failure Hazard Area
Landslide/Rock Fall Hazard Area
N
Miles
0
10
Document Path: O:\T-Z\Yellowstone County DES\117-8450001 - PDM Plan Yellowstone County\07-Misc\GIS\ArcMap\Figure11_HazardComposite.mxd
Legend
Place Name
Critical Facility
Cell Tower
School
Senior Facility
Bridge
Railroad
Primary Route
Secondary Route
River/Stream
Lake
County
Crow Reservation
Date: 3/20/2019
Figure 11
Hazard Composite
Yellowstone County, Montana
Multi-Hazard Mitigation Plan

1

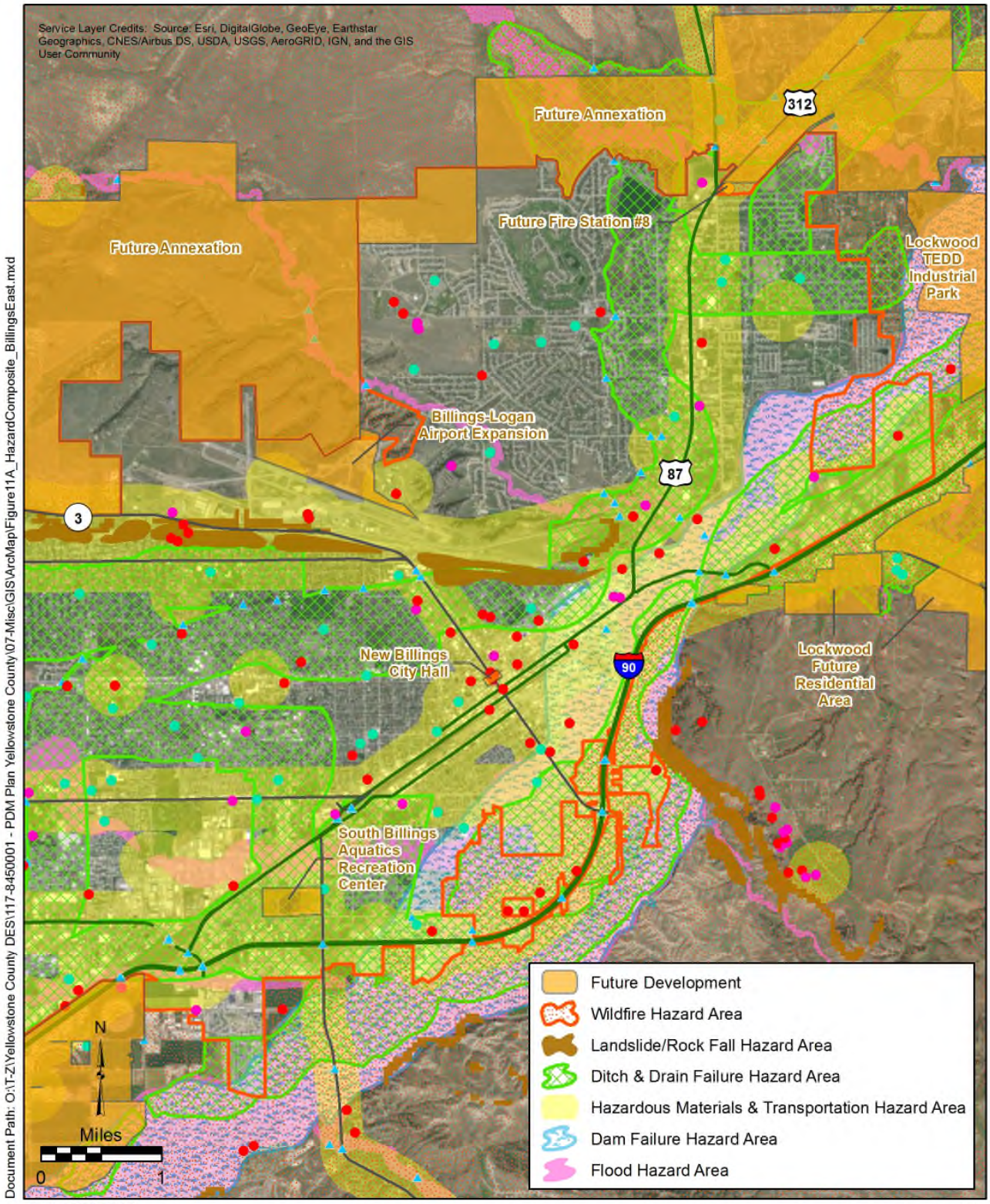


Figure 11A
Hazard Composite - Billings East
Yellowstone County, Montana
Multi-Hazard Mitigation Plan

Legend

- Critical Facility
- School/Senior Facility
- Cell Tower
- Bridge
- Primary Route
- Secondary Route

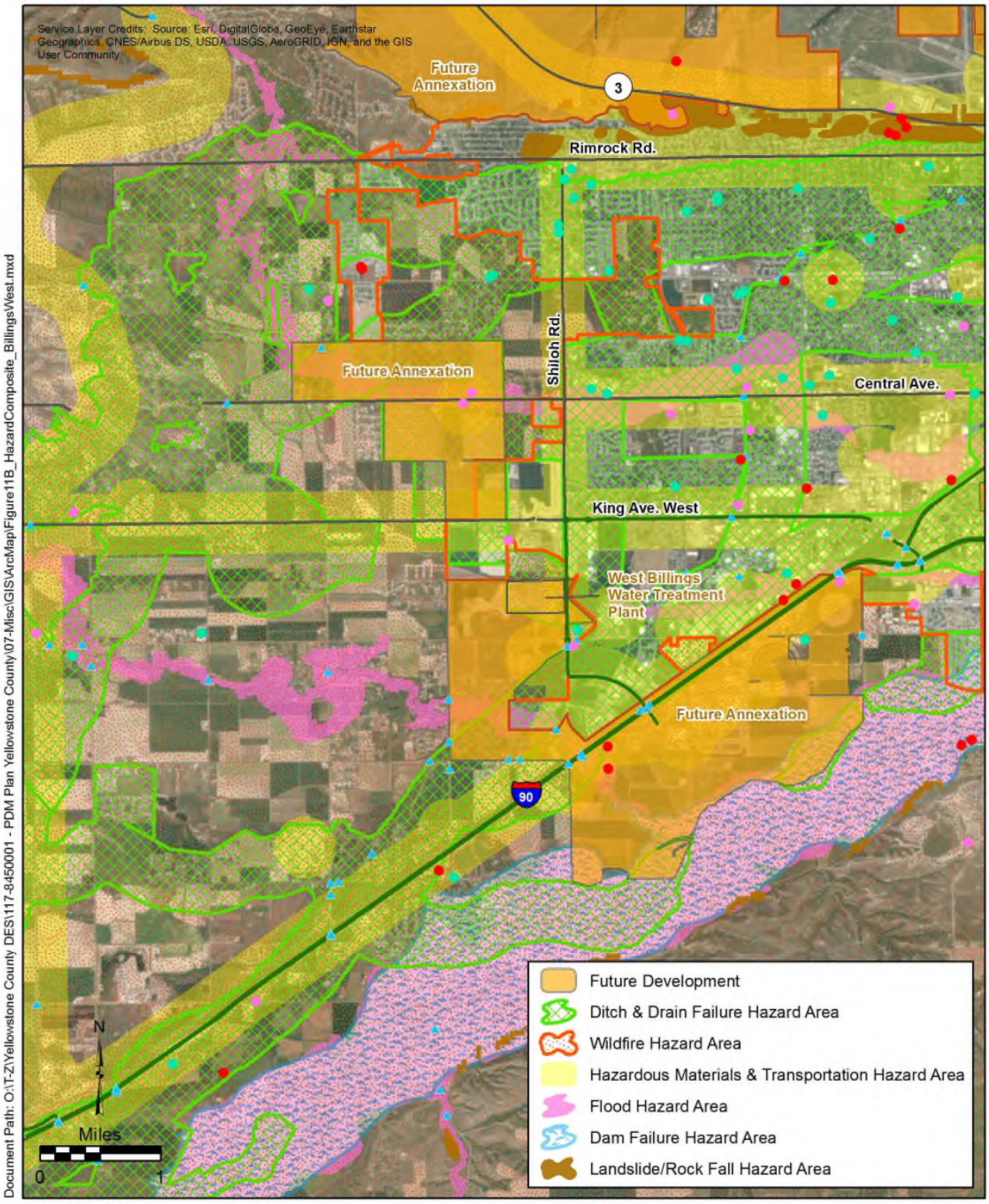
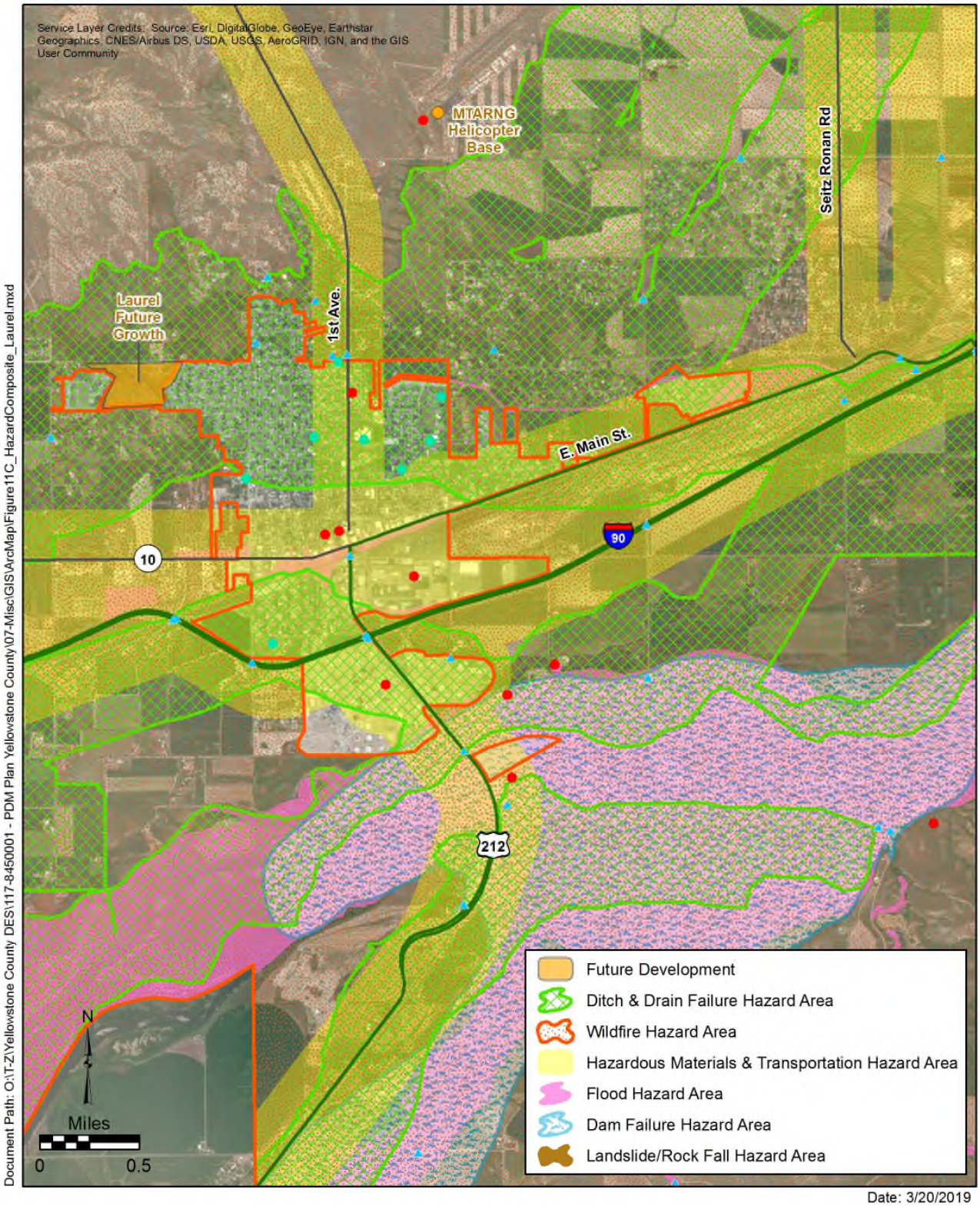


Figure 11B
Hazard Composite - Billings West
Yellowstone County, Montana
Multi-Hazard Mitigation Plan

Legend

- Critical Facility
- School/Senior Facility
- Cell Tower
- Bridge
- Primary Route
- Secondary Route

1



Date: 3/20/2019

Figure 11C

Hazard Composite - Laurel

Yellowstone County, Montana

Multi-Hazard Mitigation Plan

Legend

- Critical Facility
- School/Senior Facility
- Cell Tower
- Bridge
- Primary Route
- Secondary Route

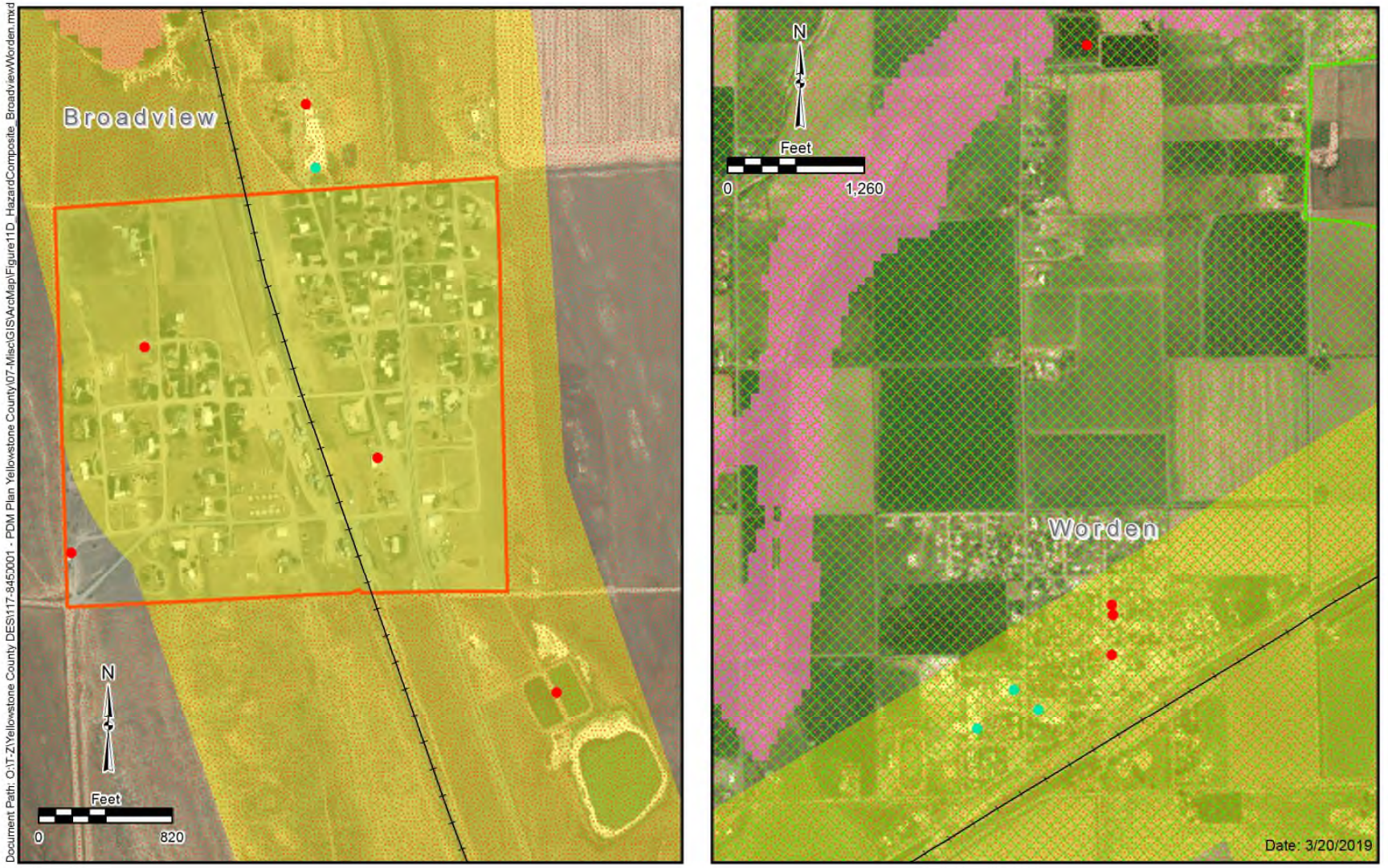


Figure 11D
Hazard Composite
Towns of Broadview & Worden
Yellowstone County, Montana
Multi-Hazard Mitigation Plan

1

Table 4.10-2. Hazard Vulnerability Summary; Yellowstone County (balance)

Hazard	Residential Building Stock - $ Exposure in Hazard Area	# Residential Structures in Hazard Area	Commercial, Industrial & Agricultural Building Stock - $ Exposure in Hazard Area	# Commercial, Industrial & Agricultural Structures in Hazard Area	Critical Facility $ Exposure in Hazard Area	# Critical Facilities Exposure in Hazard Area	Bridge Exposure $	# Bridges in Hazard Area	Persons in Hazard Area	Under 18 in Hazard Area	Over 65 in Hazard Area
Severe Weather & Drought	$3,281,364,438	16,323	$693,089,481	2058	$207,325,629	139	$163,847,163	273	24,703	9,627	7,129
Wildfire	$3,270,400,363	16,266	$668,543,220	1,888	$204,137,575	117	$158,489,369	265	24,619	9,595	7,106
Ditch and Drain Failure	$1,279,579,081	7,466	$318,898,362	949	$198,536,404	48	$63,953,589	116	11,421	4,451	3,150
Terrorism/Violence/Civil Unrest/Cyber Security	$3,281,364,438	16,323	$693,089,481	2058	$207,325,629	139	$163,847,163	273	24,703	9,627	7,129
Transportation Accidents & Hazardous Material Incidents	$1,159,210,126	6,788	$452,295,662	967	$73,425,629	69	$129,765,979	200	10,417	4,059	3,208
Flooding	$228,228,645	1,519	$91,134,979	238	$76,778,530	13	$78,175,090	102	2,300	895	699
Dam Failure	$133,488,415	1,249	$63,137,572	165	$76,236,001	12	$43,571,692	17	1,901	740	593
Communicable Disease	$3,281,364,438	16,323	$693,089,481	2058	$207,325,629	139	$163,847,163	273	24,703	9,627	7,129
Landslide & Rock Fall	$11,840,794	40	$0	0	$7,468,588	1	$0	0	59	23	15

1

Table 4.10-3. Hazard Vulnerability Summary; Billings

Hazard	Residential Building Stock - $ Exposure in Hazard Area	# Residential Structures in Hazard Area	Commercial, Industrial & Agricultural Building Stock - $ Exposure in Hazard Area	# Commercial, Industrial & Agricultural Structures in Hazard	Critical Facility $ Exposure in Hazard Area	# Critical Facilities Exposure in Hazard Area	Bridge Exposure $	# Bridges in Hazard Area	Persons in Hazard Area	Under 18 in Hazard Area	Over 65 in Hazard Area
Severe Weather & Drought	$7,276,280,246	39,750	$3,525,139,116	3,170	$1,521,633,036	138	$65,626,600	56	61,369	23,916	19,931
Wildfire	$0	0	$0	0	$0	0	$0	0	0	0	0
Ditch and Drain Failure	$3,788,740,357	21,656	$1,969,989,740	1,602	$423,492,729	61	$50,569,900	43	33,129	12,911	10,459
Terrorism/Violence/Civil Unrest/Cyber Security	$7,276,280,246	39,750	$3,525,139,116	3,170	$1,521,633,036	138	$65,626,600	56	61,369	23,916	19,931
Transportation Accidents & Hazardous Material Incidents	$3,292,436,503	18,535	$2,808,091,584	2,417	$1,232,682,009	95	$62,736,200	42	28,660	11,169	9,668
Flooding	$311,300,755	2,008	$413,836,135	225	$486,608,621	12	$24,964,400	17	3,080	1,201	992
Dam Failure	$163,037,436	1,288	$384,950,935	314	$500,744,450	15	$23,034,800	12	2,036	794	793
Communicable Disease	$7,276,280,246	39,750	$3,525,139,116	3,170	$1,521,633,036	138	$65,626,600	56	61,369	23,916	19,931
Landslide & Rock Fall	$210,427,827	858	$9,483,893	10	$5,092,159	4	$0	0	1,293	504	430

1

Table 4.10-4. Hazard Vulnerability Summary; Laurel

Hazard	Residential Building Stock - $ Exposure in Hazard Area	# Residential Structures in Hazard Area	Commercial, Industrial & Agricultural Building Stock - $ Exposure in Hazard Area	# Commercial, Industrial & Agricultural Structures in Hazard Area	Critical Facility $ Exposure in Hazard Area	# Critical Facilities Exposure in Hazard Area	Bridge Exposure $	# Bridges in Hazard Area	Persons in Hazard Area	Under 18 in Hazard Area	Over 65 in Hazard Area
Severe Weather & Drought	$394,711,073	2701	$277,958,060	191	$95,446,306	13	$5,546,600	5	4,340	1,692	1,494
Wildfire	$0	0	$0	0	$0	0	$0	0	0	0	0
Ditch and Drain Failure	$315,103,298	2,124	$182,402,107	19	$92,587,026	10	$5,406,600	4	3,314	1,291	1,218
Terrorism/Violence/Civil Unrest/Cyber Security	$394,711,073	2701	$277,958,060	191	$95,446,306	13	$5,546,600	5	4,340	1,692	1,494
Transportation Accidents & Hazardous Material Incidents	$201,806,115	1,614	$277,735,644	190	$72,069,419	9	$5,402,600	4	2,598	1,013	862
Flooding	$2,164,881	78	$8,487,187	15	$0	0	$140,000	1	114	45	31
Dam Failure	$179,900	1	$828,714	1	$0	0	$0	0	2	1	0
Communicable Disease	$394,711,073	2701	$277,958,060	191	$95,446,306	13	$5,546,600	5	4,340	1,692	1,494
Landslide & Rock Fall	$0	0	$0	0	$0	0	$0	0	0	0	0

1

Table 4.10-5. Hazard Vulnerability Summary; Broadview

Hazard	Residential Building Stock - $ Exposure in Hazard Area	# Residential Structures in Hazard Area	Commercial, Industrial & Agricultural Building Stock - $ Exposure in Hazard Area	# Commercial, Industrial & Agricultural Structures in Hazard Area	Critical Facility $ Exposure in Hazard Area	# Critical Facilities Exposure in Hazard Area	Bridge Exposure $	# Bridges in Hazard Area	Persons in Hazard Area	Under 18 in Hazard Area	Over 65 in Hazard Area
Severe Weather & Drought	$9,621,070	79	$2,904,982	10	$329,223	3	$0	0	132	52	36
Wildfire	$0	0	$0	0	$0	0	$0	0	0	0	0
Ditch and Drain Failure	$0	0	$0	0	$0	0	$0	0	0	0	0
Terrorism/Violence/Civil Unrest/Cyber Security	$9,621,070	79	$2,904,982	10	$329,223	3	$0	0	132	52	36
Transportation Accidents & Hazardous Material Incidents	$9,621,070	79	$2,904,982	10	$299,944	2	$0	0	132	52	36
Flooding	$0	0	$0	0	$0	0	$0	0	0	0	0
Dam Failure	$0	0	$0	0	$0	0	$0	0	0	0	0
Communicable Disease	$9,621,070	79	$2,904,982	10	$329,223	3	$0	0	132	52	36
Landslide & Rock Fall	$0	0	$0	0	$0	0	$0	0	0	0	0

SECTION 5. MITIGATION STRATEGIES

This section presents mitigation actions for Yellowstone County, the cities of Billings and Laurel, and the Town of Broadview to reduce potential exposure and losses from natural, man-made, and technological hazards. The MHMP Planning Team reviewed the Risk Assessment and Vulnerability Analysis to identify and develop the mitigation actions comprising the Yellowstone County mitigation strategy.

Hazard mitigation reduces the potential impacts of, and costs associated with, emergency and disaster-related events. Mitigation actions address a range of impacts, including impacts on the population, property, the economy, and the environment.
Mitigation actions can include activities such as: revisions to land-use planning, training and education, and structural and nonstructural safety measures.

This section includes:

1. Background and Past Mitigation Accomplishments
2. General Mitigation Planning Approach
3. Mitigation Goals and Objectives
4. Capability Assessment
5. Mitigation Strategy Development

5.1 Background and Past Mitigation Accomplishments

In accordance with DMA 2000 requirements, a discussion regarding past mitigation activities and an overview of past efforts is provided as a foundation for understanding the mitigation goals, objectives, and activities outlined in this Plan. Yellowstone County, through previous and ongoing hazard mitigation activities, has demonstrated that it is pro-active in protecting its physical assets and citizens against losses from natural hazards. Completed and ongoing projects since the 2012 PDM Plan was adopted include the following:

Severe Weather and Drought

- Yellowstone County continues to provide outreach to citizens on preparation and safety during severe storms and tornadoes. Tornado sirens throughout the county are tested twice weekly. Drills are announced publicly in conjunction with the NWS Severe Weather Week.

Wildfire

- Yellowstone County DES and individual fire depts. have done outreach on FireWise building practices to citizens who live in the WUI.
- The City of Billings has been aggressive with wildland fire and response zone mapping. First Responders utilize the Situation Analyst software which provides maps of high-risk areas.

Ditch and Drain Failure

- The City of Billings provides outreach to citizens that dumping of debris on ditch banks or within ditches can adversely impact the city's stormwater system and increase the potential for flooding and ditch overflows.

Terrorism, Cyber Security

- Yellowstone County has conducted armed intruder training in the schools.

- Yellowstone County and the City of Billings provide end-user training on email-related threats to county and city employees.
- Vulnerability assessment of critical cyber infrastructure are conducted regularly with priorities identified for enhanced security.
- Physical hardening of various critical facilities and schools has taken place in the form of anti-vehicle barricades, door kicks, door stops, perimeter fencing, and controlled access gates.

Flooding

- Yellowstone County continues to provide public outreach on potential flooding. The DES Coordinator participated in NWS conference calls and pushes out public messaging when threats exist.
- The Montana Dept. of Transportation has a project in the planning phase which will mitigate stormwater runoff from Hwy-3 near the Billings Logan International Airport.
- Two small detention basins have been created on Cove and Little Cove Creeks to improve flood water conveyance through the West Billings area.
- NFIP Repetitive Loss property owners have been sent letters identifying mitigation grants to reduce impacts from flooding. One owner was offered a buy-out but was not interested. One house was moved and dropped off the list. Cost-share has been an obstacle in more fully implementing this project.
- A $1 million bank stabilization project to control erosion was completed (using FEMA and USACE funding) near Riverside Park in Laurel. Pipelines were moved below the river grade to protect infrastructure from flood impacts.
- The Knife River gravel pit was purchased for stormwater retention to mitigate potential flooding downstream in the West Billings area.

Communicable Disease

- RiverStone Health continues to prevent and control communicable disease by surveillance and risk-based inspections of food service establishments.
- Education and training are provided for Health Dept. staff and key partners in the medical community on disease awareness and prevention.
- Public outreach and education are regularly provided on preventing communicable disease.

Landslide & Rock Fall

- The City of Billing Parks department conducts regular surveillance of the Rims to identify and mitigation loose rocks.

All Hazards

- Yellowstone County worked with other counties as the Big Sky 12 to further the Montana Interoperability Project to enhance first responder communications.
- Rural properties in Yellowstone County have been aggressively addressed.
- Yellowstone County is in the final stages of procuring Code Red for mass notification.

5.2 General Mitigation Planning Approach

The overall approach used to update the Yellowstone County mitigation strategy was based on FEMA guidance regarding local mitigation plan development, including:

- DMA 2000 regulations, specifically 44 CFR 201.6 (local mitigation planning)
- FEMA "Local Mitigation Planning Handbook", March 2013
- FEMA "Integrating Hazard Mitigation into Local Planning", March 2013
- Identifying Mitigation Actions and Implementing Strategies (FEMA 386-3)
- FEMA "Mitigation Ideas: A Resource for Reducing Risk to Natural Hazards", January 2013

The mitigation strategy approach includes the following steps that are further detailed in later sections of this Plan:

- Review and update mitigation goals and objectives.
- Identify mitigation capabilities and evaluate their capacity and effectiveness to mitigate and manage hazard risk.
- Identify past and ongoing mitigation activities throughout the county.
- Identify appropriate county and local mitigation strategies to address the regions risk to natural and man-made hazards.
- Prepare an implementation strategy, including the prioritization of projects in the mitigation strategy.

5.3 Mitigation Goals and Objectives

This section documents the efforts to develop hazard mitigation goals and objectives established to reduce or avoid long-term vulnerabilities to the identified hazards.

According to CFR 201.6(c)(3)(i): "The hazard mitigation strategy shall include a description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards." For the purposes of this plan, goals are defined as follows:

Goals are general guidelines that explain what is to be achieved. They are usually broad, long-term, policy-type statements and represent global visions. Goals help define the benefits that the plan is trying to achieve. The success of the plan, once implemented, should be measured by the degree to which its goals have been met (that is, by the actual benefits in terms of hazard mitigation).

The 2012 Yellowstone County PDM Plan had eight goals; two were specific to individual hazards (wildfire and flooding), and six were All Hazard goals, as follows:

- Goal 1: Increase Hazard Awareness
- Goal 2: Reduce Impacts of Flooding
- Goal 3: Reduce Impacts of Wildfire and Structure Fires on the Community
- Goal 4: Improve Emergency Communications
- Goal 5: Countywide Mapping and Zoning
- Goal 6: Protection of Public Health and Property from Disasters
- Goal 7: Grow and Develop Partnerships
- Goal 8: Enhance Emergency Services

The methodology for the 2019 MHMP update was to establish a goal for each hazard, as prioritized by the MHMP Planning Team, followed by an All Hazard goal. **Table 5.3-1** presents goals for the 2019 Yellowstone County MHMP.

FEMA defines Objectives as strategies or implementation steps to attain mitigation goals. Unlike goals, objectives are specific and measurable, where feasible. Goals and objectives were combined into a single statement for the 2012 PDM, as outlined above.

Objectives for the 2019 Yellowstone County MHMP were consistent with FEMA's "*Local Mitigation Planning Handbook, March 2013*" guidelines (see *Section 5.5.1*) as either: Public Education and Awareness, Property Protection, Prevention, Structural, Natural Resource Protection, or Emergency Services, with an objective added for Planning/Analysis/Mapping projects. Objectives for the 2019 MHMP are presented in **Table 5.3-1**.

Table 5.3-1. Summary of Goals and Objectives

Goal #	Goal Statement	Objective #	2019 Goal/Objective Statement
1	Reduce Impacts from Severe Weather and Drought	1.1	Implement Structural Projects to Reduce Impacts from Severe Weather and Drought
		1.2	Provide Public Education and Awareness to Reduce Impacts from Severe Weather and Drought
		1.3	Implement Property Protection Projects to Reduce Impacts from Severe Weather and Drought
		1.4	Implement Prevention Projects to Reduce Impacts from Severe Weather and Drought
2	Reduce Impacts from Wildfire	2.1	Implement Planning, Mapping and/or Analysis Projects to Reduce Impacts from Wildfire
		2.2	Provide Public Education and Awareness to Reduce Impacts from Wildfire
		2.3	Implement Property Protection Projects to Reduce Impacts from Wildfire
		2.4	Implement Prevention Projects to Reduce Impacts from Wildfire
		2.5	Enhance Emergency Service Capabilities to Reduce Impacts from Wildfire
3	Reduce Impacts from Ditch and Drain Failure	3.1	Implement Structural Projects to Reduce Impacts from Irrigation Ditch and Drain Failure
		3.2	Implement Planning, Analysis and Mapping Project to Reduce Impacts from Irrigation Ditch and Drain Failure
		3.3	Implement Property Protection Projects to Reduce Impacts from Irrigation Ditch and Drain Failure
		3.4	Provide Public Education and Outreach to Reduce Impacts from Irrigation Ditch and Drain Failure
4	Reduce Impacts from Terrorism, Violence, Civil Unrest, and Cyber Security	4.1	Enhance Emergency Service Capabilities to Reduce Impacts from Terrorism, Violence, Civil Unrest, and Cyber Security
		4.2	Provide Public Education and Outreach to Reduce Impacts from Terrorism, Violence, Civil Unrest, and Cyber Security
		4.3	Implement Planning, Analysis and Mapping Projects to Reduce Impacts from Terrorism, Violence, Civil Unrest, and Cyber Security
		4.4	Implement Structural Projects to Reduce Impacts from Terrorism, Violence, Civil Unrest, and Cyber Security

Table 5.3-1. Summary of Goals and Objectives

Goal #	Goal Statement	Objective #	2019 Goal/Objective Statement
5	Reduce Impacts from Transportation Accidents and Hazardous Material Incidents	5.1	Enhance Emergency Service Capabilities to Reduce Impacts from Haz-Mat Incidents and Transportation Accidents
		5.2	Provide Public Education and Awareness to Reduce Impacts from Haz-Mat Incidents and Transportation Accidents
		5.3	Implement Planning, Mapping and Analysis Projects to Reduce Impacts from Haz-Mat Incidents and Transportation Accidents
		5.4	Implement Prevention Projects to Reduce Impacts from Haz-Mat Incidents and Transportation Accidents
6	Reduce Impacts from Flooding and Dam Failure	6.1	Implement Property Protection Projects to Reduce Impacts from Flooding and Dam Failure
		6.2	Provide Public Education and Awareness to Reduce Impacts from Flooding and Dam Failure
		6.3	Implement Planning, Mapping and/or Analysis Projects to Reduce Impacts from Flooding and Dam Failure
		6.4	Implement Structural Projects to Reduce Impacts from Flooding and Dam Failure
		6.5	Implement Prevention Projects to Reduce Impacts from Flooding and Dam Failure
		6.6	Enhance Emergency Service Capabilities to Reduce Impacts from Flooding and Dam Failure
7	Reduce Impacts from Communicable Disease	7.1	Implement Prevention Projects to Reduce Impacts from Communicable Disease
		7.2	Implement Public Education and Awareness Projects to Reduce Impacts from Communicable Disease
		7.3	Enhance Emergency Service Capabilities to Reduce Impacts from Communicable Disease
		7.4	Implement Planning, Mapping, and Analysis Projects to Reduce Impacts from Communicable Disease
8	Reduce Impacts from Landslide and Rock Fall	8.1	Implement Structural Projects to Reduce Impacts from Landslide and Rock Fall Hazards
9	Reduce Impacts Associated with All Hazards	9.1	Enhance Emergency Service Capabilities to Mitigate Impacts from All Hazards
		9.2	Implement Public Education and Awareness Projects to Reduce Impacts from All Hazards
		9.3	Implement Planning, Mapping, and/or Analysis Projects to Reduce Impacts from All Hazards
		9.4	Implement Prevention Projects to Mitigate Impacts from All Hazards

5.4 Capability Assessment

Goals and objectives used to mitigate natural and technological hazards build on the community's existing capabilities. Yellowstone County's capabilities to support and implement mitigation projects include the programs and resources of various local, regional, state, and federal partners and the administrative and technical capabilities of county and city staff who implement the legal and regulatory requirements used to manage growth (zoning, building codes, subdivision regulations, and floodplain ordinances).

Yellowstone County's hazard mitigation capabilities are summarized below. These resources have the responsibility to provide overview of past, current, and ongoing pre- and post-disaster mitigation projects including capital improvement programs, wildfire mitigation programs, stormwater management programs, and NFIP compliance projects. The fiscal capabilities of the Yellowstone

County, Billings, Laurel, and Broadview to support hazard mitigation and provide the funding to implement the mitigation strategy outlined in the MHMP.

5.4.1 Summary of Programs and Resources Available to Support Mitigation

A number of programs and resources in Yellowstone County support mitigation efforts. These are described below.

National Flood Insurance Program

The NFIP is aimed at reducing the impact of flooding on private and public structures. This is achieved by providing affordable insurance for property owners and by encouraging communities to adopt and enforce floodplain management regulations. These efforts help mitigate the effects of flooding on new and improved structures. Overall, the program reduces the socio-economic impact of disasters by promoting the purchase and retention of Risk Insurance in general, and NFIP in particular.

NFIP Community Rating System

As an additional component of the NFIP, the Community Rating System is a voluntary incentive program that recognizes and encourages community floodplain management activities that exceed the minimum NFIP requirements. As a result, flood insurance premium rates are discounted to reflect the reduced flood risk resulting from the community actions meeting the three goals of the CRS: (1) reduce flood losses; (2) facilitate accurate insurance rating; and (3) promote the awareness of flood insurance. Yellowstone County currently participates in the CRS program.

5.4.2 Administrative and Technical Capabilities

Yellowstone County's administrative and technical capabilities to implement mitigation projects include planners, engineers and floodplain managers, in-house GIS personnel, emergency managers, and financial, legal and regulatory requirements. Expertise from local and regional planning partners also contribute to mitigation capabilities for Yellowstone County, the Cities of Billings and Laurel, and Town of Broadview. **Table 5.4-1** summarizes capabilities of the jurisdictions adopting this MHMP to accomplish hazard mitigation. *Section 3.7* provides additional discussion on many of these policies.

Table 5.4-1. Capability Assessment Summary

Capability	Yellowstone County	City of Billings	City of Laurel	Town of Broadview
Population (2016 est.)	158,980	109,642	6,791	190
Policies and Programs				
Growth Policy that Supports Hazard Mitigation	Yes	Yes	Yes	No
Subdivision Regulations that Support Hazard Mitigation	Yes	Yes	Yes	Uses County Regulations
Zoning that Recognizes Hazard Areas		Yes	Yes	Yes
National Flood Insurance Program Participation	Yes	Yes	Yes	No
Local Building Codes	No	Yes	Yes	No

Table 5.4-1. Capability Assessment Summary

Capability	Yellowstone County	City of Billings	City of Laurel	Town of Broadview
Technical Capabilities				
Emergency Manager	Yes	No	No	No
Public Works Engineer	Yes	Yes	Contract as needed	No
GIS Mapping Capabilities	Yes	Yes	No	No
Floodplain Administrator	Yes	Yes	Contract Position	No
Community Planners	Yes	Yes	Yes	No

Yellowstone County Disaster and Emergency Services

The mission of Yellowstone County DES is to save lives, prevent injury, and protect property and the environment by taking reasonable and affordable measures to mitigate, prepare for, respond to and recover from disasters. The Yellowstone County DES Coordinator is responsible for the planning, coordination, and implementation of all emergency management and Homeland Security related activities for the county. Other responsibilities include coordination of activities for the county's Emergency Operations Center. The EOC, when activated, is a central location where representatives of local government and private sector agencies convene during disaster situations to make decisions, set priorities and coordinate resources for response and recovery. These efforts are designed to enhance the capacity of the local government to plan for, respond to, and mitigate the consequences of threats and disasters using an all-hazard framework.

The Yellowstone County DES office includes two staff positions; the DES Coordinator who devotes 100 percent of their time to emergency management, and an administrative assistant who devotes 100 percent of their time to emergency management. These positions are funded 50 percent federal through the Emergency Management Performance Grant (EMPG) program and 50 percent through the county general fund. In addition, a volunteer serves as Deputy DES Coordinator and is available on-call as needed.

Local Emergency Planning Committee

The mission of the Yellowstone County LEPC is to provide resources and guidance to the community through education, coordination and assistance in hazmat planning; and to assure public health and safety. They do not function in actual emergency situations, but attempt to identify and catalogue potential hazards, identify available resources, and mitigate hazards when feasible. The LEPC consists of representatives from businesses, local government, emergency responders and citizen groups located in Yellowstone County. Monthly meetings are held at Fire Station #1 in Billings.

City-County Planning Board

The City-County Planning Board was authorized through an interlocal agreement adopted in 1984 and amended in 1990 and again in 1995. The interlocal agreement establishes the administrative and financing responsibilities of each jurisdiction, the relationship of the Planning Board to the governing bodies and the relationship of the Planning Board and Planning Department Director and staff. There are 15 members on the County Planning Board: seven are appointed by the County Commissioners, five are appointed by the Mayor of Billings, and one member is appointed by the Commissioners from the governing board of the Yellowstone County Conservation District, and two members are ex-officio non-voting representative of

School District No. 2 and the County Superintendent of Schools. Board members serve 2-year terms. The duties and responsibilities of the Planning Board are described in the By-Laws, last amended in 2012. In addition to other duties, the Board is responsible for developing a Growth Policy for the Board's jurisdiction.

Yellowstone County Fire Protection Services and Rural Fire Council

Municipal fire departments exist in Billings and Laurel. There are seven fire stations in the City of Billings including: Fire Station #1 which houses Central Headquarters for the fire department, Fire Station #2 (Maverick), Fire Station #3 (Parkhill), Fire Station #4 (Terry), Fire Station #5, Fire Station #6 (Heights), and Fire Station #7. The City of Laurel has one fire station. Fire departments are also located at the Billings-Logan International Airport, Phillips 66, ExxonMobil, and CHS refineries.

Yellowstone County has a volunteer fire protection system that is trained and equipped for wildfire protection. The county has been broken into a number of fire districts, with volunteer fire departments consisting of: Blue Creek VFD, Broadview VFD, Custer VFD, Fuego VFD, Haley Bench VFD, Lockwood VFD, Meadowlark VFD, Molt VFD, Shepherd VFD #1 & #2, Waco VFD, and Worden VFD #1, #2, and #3.

The Rural Fire Council consists of the volunteer fire departments and provides information and advice to the Yellowstone Board of County Commissioners on matters relating to fire and life safety services within Yellowstone County. The council also provides a forum for operational discussion and collaboration among the members, enhances communications among operational units, and provides for the common good. Written mutual aid agreements have been signed among and between all fire districts or departments in Yellowstone County, as well as with adjoining counties, and similar agreements have been reached with state and federal fire control agencies.

Big Sky Economic Development Authority

Big Sky Economic Development Authority (EDA) is Yellowstone County's lead economic development agency, established in 1989, by the Yellowstone County Commissioners. The agency serves Yellowstone County, the Cities of Billings and Laurel, the town of Broadview, and the communities of Acton, Ballantine, Custer, Huntley, Lockwood, Pompey's Pillar, Shepherd, and Worden. Big Sky Economic Development, the agency, is responsible for creating and implementing the strategic plan for economic development. This plan identifies and prioritizes opportunities and challenges and forms partnerships when appropriate. Big Sky EDA has witnessed their communities struggle to recover from flooding, fires, and other natural or man-made disasters; therefore, they recognize the link between regional economic prosperity and an area's ability to prevent, withstand, and quickly recover from major disaster. In the event of a disaster, Big Sky EDA, in conjunction with its federal, state, and regional partners, is prepared to facilitate planning and recovery efforts.

Beartooth Resource Conservation and Development District

The Beartooth RC&D started as a conservation district in 1971, was incorporated in 1990 and became an economic development district in 1995. A 22-member Board of Directors, that represents local government and conservation districts, governs it. The District covers a five-county region consisting of Yellowstone, Big Horn, Stillwater, Carbon and Sweetgrass counties. Pursuing its economic development functions, the District has assisted primarily the smaller

towns and counties in their region with obtaining grants and loans that support business development and employment, technical assistance and training.

The District's economic development goals include: assisting in the development of infrastructure to enhance the quality of life of people in the area and support future development; strengthening and solidifying the regional economy by supporting local industries to improve the quality of life and providing employment opportunities; developing a regional forum for communication between communities and regional groups; improving the standard of living by upgrading community services and their facilities; and, assisting local conservation groups in maintaining the Natural Resource Base.

Montana DNRC and BLM

The Forestry Division, of the Montana DNRC is responsible for planning and implementing forestry and fire management programs through an extensive network of staff located in field offices across the State. The Fire and Aviation Management Bureau provides resources, leadership and coordination to Montana's wildland fire services to protect lives, property, and natural resources; working with local, tribal, state, and federal partners to ensure wildfire protection on all state and private land in Montana. There are numerous programs aimed at effective fire preparedness and capacity building. The Fire Preparedness effort is focused in four areas:

- Fire Prevention Program seeks to educate Montanans about fire risk, the wildland urban interface and reducing human-caused fires;
- Fire Training Program provides statewide training opportunities for DNRC and local government personnel;
- Equipment Development Center builds and maintains wildland fire equipment and radio communications;
- Fire Support Programs provide financial and technical expertise to assist all fire programs in meeting their respective goals and mandates. These include, but not limited to: Fire Assessment fees, GIS, repair and maintenance of radio systems and rolling stock equipment.

The BLM Montana/Dakota District Office is involved in planning activities for public land area within Yellowstone County. The BLM and Yellowstone County have an initial attack MOU that states the BLM will respond to BLM or County fires for the first 24 hours.

National Fire Prevention Association's (NFPA) FireWise Communities Program

NFPA's FireWise Communities Program encourages local solutions for safety by involving homeowners in taking individual responsibility for preparing their homes from the risk of wildfire. FireWise is a key component of Fire Adapted Communities – a collaborative approach that connects all those who play a role in wildfire education, planning and action with comprehensive resources to help reduce risk. The program is co-sponsored by the U.S. Forest Service, the U.S. Department of the Interior, and the National Association of State Foresters. To save lives and property from wildfire, NFPA's FireWise Communities program teaches people how to adapt to living with wildfire and encourages neighbors to work together and take action now to prevent losses. They advocate playing a role in protecting ourselves and each other from the risk of wildfire.

RiverStone Health and Montana DPHHS

RiverStone Health is an essential provider of personal and public health services in Yellowstone County and in south-central Montana. Services include immunizations, family planning, and communicable disease prevention, investigation and follow up, and public health emergency preparedness. The county's public and environmental health programs are supported by the Montana Dept. of Public Health and Human Services whose mission is to improve and protect the health of Montanans to the highest possible level with objectives to prevent and control communicable disease, and to prepare the public health system to respond to public health events and emergencies. The Public Health and Safety Division continuously monitors the proportion of children fully immunized and the number of local jurisdictions that participate in a public health emergency exercise every other year as measurement in achieving this goal.

Montana Governor's Drought and Water Supply Advisory Committee

The Montana Drought and Water Supply Advisory Committee serves as a clearinghouse for the sharing of water supply and moisture conditions on a monthly basis among state and local agency officials with responsibility to manage natural resources and support constituents most likely affected by drought. In its monthly assessment of conditions, the committee considers various scientific indicators that quantify and forecast precipitation, mountain snowpack, streamflow, soil moisture, reservoir contents, and agricultural and livestock production. The committee also provides planning support and information sharing with watershed groups and county drought committees through this website and staff contact.

Member agencies include the Governor's Office, DNRC, DEQ, Fish Wildlife and Parks, Agriculture, Livestock, Commerce, and DES. Federal reporting partners include the Bureau of Reclamation, U.S. Geological Survey, Natural Resource Conservation Service, Agricultural Statistics Service, and the National Weather Service. Other reporters include the multi-agency Northern Rockies Coordination Center for fire conditions, Montana Tech's Groundwater Information Center, Montana Climate Office, USDA Farm Service Agency, U.S. Congressional delegation representatives, U.S. Small Business Administration, Rural Development, and Montana State University Extension Service.

NOAA Weather-Ready Nation Program

The Weather-Ready Nation (WRN) Ambassador initiative is NOAA's effort to formally recognize NOAA partners who are improving the nation's readiness, responsiveness, and overall resilience against extreme weather, water, and climate events. As a WRN Ambassador, partners commit to working with NOAA and other Ambassadors to strengthen national resilience against extreme weather. In effect, the WRN Ambassador initiative helps unify the efforts across government, non-profits, academia, and private industry toward making the nation more ready, responsive, and resilient against extreme environmental hazards. WRN is a strategic outcome where society's response should be equal to the risk from all extreme weather, water, and climate hazards.

WRN Ambassadors serve a pivotal role in affecting societal change — helping to build a nation that is ready, responsive, and resilient to the impacts of extreme weather and water events.
To be officially recognized as a WRN Ambassador, an organization must commit to:

- Promoting Weather-Ready Nation messages and themes to their stakeholders;
- Engaging with NOAA personnel on potential collaboration opportunities;
- Sharing their success stories of preparedness and resiliency; and,
- Serving as an example by educating employees on workplace preparedness.

5.4.3 Fiscal Capabilities

Mitigation projects and initiatives are largely or entirely dependent on available funding. Yellowstone County is able to fund mitigation projects though existing local budgets, local appropriations (including referendums and bonding), and through a myriad of Federal and State loan and grant programs. A number of these funding opportunities are described below.

FEMA Hazard Mitigation Funding Opportunities

Federal mitigation grant funding is available to all communities with a current hazard mitigation plan (this plan); however most of these grants require a "local share" in the range of 10-25 percent of the total grant amount. The FEMA mitigation grant programs are described below.

FEMA, Hazard Mitigation Grant Program (HMGP). The HMGP is a post-disaster mitigation program. It is made available to states by FEMA after each Federal disaster declaration. The HMGP can provide up to 75 percent funding for hazard mitigation measures. The HMGP can be used to fund cost-effective projects that will protect public or private property in an area covered by a federal disaster declaration or that will reduce the likely damage from future disasters. Examples of projects include acquisition and demolition of structures in hazard prone areas, flood-proofing or elevation to reduce future damage, minor structural improvements and development of state or local standards. Projects must fit into an overall mitigation strategy for the area identified as part of a local planning effort. All applicants must have a FEMA-approved Hazard Mitigation Plan (this plan).

Applicants who are eligible for the HMGP are state and local governments, certain nonprofit organizations or institutions that perform essential government services, and Indian tribes and authorized tribal organizations. Individuals or homeowners cannot apply directly for the HMGP; a local government must apply on their behalf. Applications are submitted to Montana DES and placed in rank order for available funding and submitted to FEMA for final approval. Eligible projects not selected for funding are placed in an inactive status and may be considered as additional HMGP funding becomes available.

Flood Mitigation Assistance (FMA) Program. The FMA combines the previous Repetitive Flood Claims and Severe Repetitive Loss Grants into one grant program. FMA provides funding to assist states and communities in implementing measures to reduce or eliminate the long-term risk of flood damage to buildings, manufactured homes, and other structures insurable under the NFIP. The FMA is funded annually; no federal disaster declaration is required. Only NFIP insured homes and businesses are eligible for mitigation in this program. Funding for FMA is very limited and, as with the HMGP, individuals cannot apply directly for the program. Applications must come from local governments or other eligible organizations. The federal cost share for an FMA project is 75 percent. At least 25 percent of the total eligible costs must be provided by a non-federal source. Of this 25 percent, no more than half can be provided as in-kind contributions from third parties. At minimum, a FEMA-approved local flood mitigation plan is required before a project can be approved. FMA funds

are distributed from FEMA to the state. Montana DES serves as the grantee and program administrator for FMA.

FEMA, Pre-Disaster Mitigation Competitive (PDMC) Grant Program**.** The PDM program is an annually funded, nationwide, competitive grant program. No disaster declaration is required. Federal funds will cover 75 percent of a project's cost up to $3 million. As with the HMGP and FMA, a FEMA-approved local Hazard Mitigation Plan is required to be approved for funding under the PDM program.

FEMA, Readiness, Response and Recovery Directorate, Fire Management Assistance Grant Program. This program provides grants to states, tribal governments and local governments for the mitigation, management and control of any fire burning on publicly (non-federal) or privately owned forest or grassland that threatens such destruction as would constitute a major disaster. The grants are made in the form of cost sharing with the federal share being 75 percent of total eligible costs. Grant approvals are made within 1 to 72 hours from time of request.

Fire Prevention and Safety Grants. The Fire Prevention and Safety Grants (FP&S) are part of the Assistance to Firefighters Grants, and are administered by the FEMA. FP&S Grants support projects that enhance the safety of the public and firefighters from fire and related hazards. The primary goal is to target high-risk populations and reduce injury and prevent death. Eligibility includes fire departments, national, regional, state, and local organizations, Native American tribal organizations, and/or community organizations recognized for their experience and expertise in fire prevention and safety programs and activities. Private non-profit and public organizations are also eligible. Interested applicants are advised to check the website periodically for announcements of grant availability. More information: https://www.fema.gov/welcome-assistance-firefighters-grant-program

Other Mitigation Funding Opportunities

Grant funding is available from a variety of federal and state agencies for training, equipment, and hazard mitigation activities. Several of these programs are described below.

U.S. Army Corps of Engineers (USACE) Section 205 Program. Section 205 of the Flood Control Act of 1948, as amended, provides authority for the USACE to construct projects (either structural or nonstructural) to reduce damages caused by flooding. This authority focuses on solving local flood problems in urban areas, towns and communities. Under the Section 205 Program, the USACE can provide for local protection from flooding by the construction or improvement of flood control works. The types of studies and/or projects, which are tailored to be site specific, are either structural or nonstructural. Structural projects include levees, channel improvements, small dams and floodwalls. Nonstructural measures reduce flood damages by changing the use of floodplains or by accommodating existing uses to the flood hazard. Examples include flood proofing, relocation of structures, and flood warning and preparedness systems. The USACE oversees planning, design, and construction of flood risk management projects in close coordination with the project sponsor. Before the federal government can participate in implementing a Section 205 project, a planning study must be conducted to determine if the project is economically justified (benefits exceed the costs), technically feasible, and environmentally acceptable.

The feasibility study is initially 100 percent federally-funded up to $100,000. Any study costs over $100,000 are cost shared 50-50 between the USACE and the local sponsor. The sponsor's 50 percent can consist of any combination of cash and in-kind services. Once the feasibility study is complete, the remaining project cost is shared 65 percent federal and 35 percent non-federal. The sponsor's 35 percent share (minimum 5 percent cash) of the total project implementation cost consists of cash and Lands, Easements, Rights-of-way, Relocations, and Disposal areas (LERRDs) necessary for project construction. If the value of the LERRDs plus the minimum 5 percent cash contribution does not equal or exceed 35 percent of the project cost, the sponsor must pay the additional amount necessary so that the sponsor's total contribution equals 35 percent of the project cost. The federal investment in the solution is limited to a maximum of $10 million per project.

USACE Section 22 Program. Section 22 of the Water Resources Development Act of 1974, as amended, provides authority for the USACE to assist states, local governments, federally-recognized Indian Tribes and other non-federal entities in the preparation of comprehensive plans for the development, utilization and conservation of water and related land resources. Under the Section 22 Program, the USACE can provide technical planning assistance in all areas related to water resources development. Typical studies are only planning level of detail; they do not include detailed design for project construction. The studies generally involve the analysis of existing data for planning purposes using standard engineering techniques, although some data collection is often necessary. Most studies become the basis for state, tribal, or local planning decisions. The program can encompass many types of studies dealing with water resource issues including: flood damage reduction studies, bank stabilization studies, water quality studies, and sedimentation studies.

Section 22 is funded annually by Congress. Assistance is limited to $500,000 in federal funds per state or Tribe per year. Individual studies, of which there may be more than one per state or Tribe per year, generally range in cost from $25,000 to over $100,000. These studies are cost-shared on a 50/50 basis (50 percent federal/50 percent non-federal sponsor). The study sponsor has the option of providing in-kind services for up to 100 percent of its share of the study cost.

National Fire Plan Program 15.228: Wildland Urban Interface Community and Rural Fire Assistance. This program is designed to implement the National Fire Plan and assist communities at risk from catastrophic wildland fires. The program provides grants, technical assistance, and training for community programs that develop local capability, including: Assessment and planning, mitigation activities, and community and homeowner education and action; hazardous fuels reduction activities, including the training, monitoring or maintenance associated with such hazardous fuels reduction activities, on federal land, or on adjacent nonfederal land for activities that mitigate the threat of catastrophic fire to communities and natural resources in high risk areas; and, enhancement of knowledge and fire protection capability of rural fire districts through assistance in education and training, protective clothing and equipment purchase, and mitigation methods on a cost share basis. More information: http://www.federalgrantswire.com/wildland-urban-interface-community-and-rural-fire-assistance.html#.WCx8ekYzWUk

Secure Rural Schools and Community Self-Determination Act - Title III- County Funds. The Self-Determination Act has recently been reauthorized and now includes specific language regarding the FireWise Communities program. Counties seeking funding under Title III must use the funds to perform work under the FireWise Communities program. Counties applying for Title III funds to implement FireWise activities can assist in all aspects of a community's recognition process,

including conducting or assisting with community assessments, helping the community create an action plan, assisting with an annual FireWise Day, assisting with local wildfire mitigation projects, and communicating with the state liaison and the national program to ensure a smooth application process. Counties that previously used Title III funds for other wildfire preparation activities such as the Fire Safe Councils or similar would be able to carry out many of the same activities as they had before. However, with the new language, counties would be required to show that funds used for these activities were carried out under the FireWise Communities program. More information: http://www.fs.usda.gov/wps/portal/fsinternet/!ut/p/c4/04_SB8K8xLLM9MSSzPy8xBz9CP0os3gjAwhwtDDw9_AI8zPwhQoY6BdkOyoCAPkATlA!/?ss=119985&navtype=BROWSEBYSUBJECT&cid=FSE_003853&navid=091000000000000&pnavid=null&position=BROWSEBYSUBJECT&ttype=main&pname=Secure%20Rural%20Schools-%20Home

U.S. Fish & Wildlife Service, Rural Fire Assistance Grants. Each year, the U.S. Fish & Wildlife Service (FWS) provides Rural Fire Assistance (RFA) grants to neighboring community fire departments to enhance local wildfire protection, purchase equipment, and train volunteer firefighters. Service fire staff also assist directly with community projects. These efforts reduce the risk to human life and better permit FWS firefighters to interact and work with community fire organizations when fighting wildfires. The Department of the Interior (DOI) receives an appropriated budget each year for an RFA grant program. The maximum award per grant is $20,000. The DOI assistance program targets rural and volunteer fire departments that routinely help fight fire on or near DOI lands. More information: http://www.fws.gov/fire/living_with_fire/rural_fire_assistance.shtml

U.S. Bureau of Land Management, Community Assistance Program. BLM provides funds to communities through assistance agreements to complete mitigation projects, education and planning within the WUI. More information:
http://www.blm.gov/nifc/st/en/prog/fire/community_assistance.html

Fire Management Assistance Program. This program is authorized under Section 420 of the Stafford Act. It allows for the mitigation, management, and control of fires burning on publicly or privately owned forest or grasslands that threaten destruction that would constitute a major disaster. More information: http://www.fema.gov/fire-management-assistance-grant-program

U.S. Department of Agriculture, Community Facilities Loans and Grants. Provides grants (and loans) to cities, counties, states and other public entities to improve community facilities for essential services to rural residents. Projects can include fire and rescue services; funds have been provided to purchase fire-fighting equipment for rural areas. No match is required. More information: http://www.usda.gov/wps/portal/usda/usdahome?navid=GRANTS_LOANS

General Services Administration, Sale of Federal Surplus Personal Property. This program sells property no longer needed by the federal government. The program provides individuals, businesses and organizations the opportunity to enter competitive bids for purchase of a wide variety of personal property and equipment. Normally, there are no restrictions on the property purchased. More information: http://www.gsa.gov/portal/category/21045

Hazardous Materials Emergency Preparedness Grants. Grant funds are passed through to local emergency management offices and HazMat teams having functional and active LEPC groups. More information: http://www.phmsa.dot.gov/hazmat/grants

U.S. Department of Homeland Security. Enhances the ability of states, local and tribal jurisdictions, and other regional authorities in the preparation, prevention, and response to terrorist attacks and other disasters, by distributing grant funds. Localities can use grants for planning, equipment, training and exercise needs. These grants include, but are not limited to areas of Critical Infrastructure Protection Equipment and Training for First Responders, and Homeland Security Grants. More information: http://www.dhs.gov/

Community Development Block Grants (CDBG). The U.S. Department of Commerce administers the CDBG program which are intended to provide low and moderate-income households with viable communities, including decent housing, a suitable living environment, and expanded economic opportunities. Eligible activities include community facilities and improvements, roads and infrastructure, housing rehabilitation and preservation, development activities, public services, economic development, planning, and administration. Public improvements may include flood and drainage improvements. In limited instances, and during the times of "urgent need" (e.g. post disaster) as defined by the CDBG National Objectives, CDBG funding may be used to acquire a property located in a floodplain that was severely damaged by a recent flood, demolish a structure severely damaged by an earthquake, or repair a public facility severely damaged by a hazard event. CDBG funds can be used to match FEMA grants. More Information: http://www.hud.gov/offices/cpd/communitydevelopment/programs/

Volunteer Fire Assistance Program Grants. The purpose of these grants is to organize, train and equip local firefighters to prevent and suppress wildfires. Communities under 10,000 in population are eligible for the funding. Smaller communities may join together in a group and or county effort to submit an application, even if their combined population is over 10,000. There is no pre-set award amount. Financial assistance on any project, during any fiscal year, requires a non-federal match for project expenditures. More information: http://dnrc.mt.gov/grants-and-loans

Conservation District Grants. This program provide funds to increase conservation district employee's hours to assist in planning, securing funding, and implementing programs that improve public outreach, improve conservation district administrative capabilities, and implement conservation plans. There is a $10,000 award amount. More information: http://dnrc.mt.gov/grants-and-loans

Western States Wildland Urban Interface. National Fire Plan funds are available to mitigate risk from wildland fire within the WUI. Funds are awarded through a competitive process to 22 western states and territories through the Western Wildland Urban Interface Grant Program. Each year, the Montana Department of Natural Resources and Conservation accepts proposals from partners around the state for submission to the National Fire Plan competitive process. The State scores and prioritizes these proposals before sending them on to the national competitive process. Non-profit organizations, conservation districts, county and municipal governments, and fire departments. Individual landowners may not apply but may be eligible for cost-share opportunities through this program. Each grant request is limited to a maximum of $300,000. More information: http://dnrc.mt.gov/grants-and-loans

Hazardous Fuel Reduction Grants. These grants are for hazardous fuel reduction on private lands to protect communities adjacent to National Forest System Lands where prescribed fire activities are planned. Prescribed fire activities must be imminent (to take place within 3 years of the award). Non-

profit organizations, conservation districts, county and municipal governments, fire departments are eligible for this funding. Award amounts typically range from $50,000 to $100,000 depending upon availability of funding. More information: http://dnrc.mt.gov/grants-and-loans

Renewable Resource Grant Program. Administered by the Montana DNRC, this program provides both grant and loan funding for public facility and other renewable resource projects. Projects that conserve, manage, develop or protect Montana's renewable resources are eligible for funding. Numerous public facility projects including drinking water, wastewater and solid waste development and improvement projects have received funding through this program. Other projects that have been funded include irrigation rehabilitation, dam repair, soil and water conservation and forest enhancement. More information: http://dnrc.mt.gov/grants-and-loans

Crop Insurance. Crop insurance is available to agricultural producers, including farmers, ranchers, and others to protect themselves against either the loss of their crops due to natural disasters, such as hail, drought, and floods, or the loss of revenue due to declines in the prices of agricultural commodities. In the United States, a subsidized multi-peril federal insurance program, administered by the Risk Management Agency, is available to most farmers. The program is authorized by the Federal Crop Insurance Act, as amended. Federal crop insurance is sold and serviced through private insurance companies. A portion of the premium, as well as the administrative and operating expenses of the private companies, is subsidized by the federal government. The Federal Crop Insurance Corporation reinsures the companies by absorbing some of the losses of the program when indemnities exceed total premiums. Several revenue insurance products are available on major crops as a form of additional coverage. https://cropinsuranceinamerica.org/crop-insurance-101/

5.5 Mitigation Strategy Development

This subsection discusses the identification, prioritization, analysis and implementation plan of mitigation actions for Yellowstone County, the cities of Billings and Laurel, and the Town of Broadview.

5.5.1 Mitigation Strategy Update and Reconciliation

The Planning Team reviewed the list of mitigation actions (projects) from the 2012 PDM Plan and determined which were complete, should be deleted, or reworded for the 2019 mitigation strategy during monthly Planning Team conference calls held during June and July 2019, then after a six month pause, during January and February 2019. **Appendix C-2** presents a reconciliation of mitigation projects and their status.

Concerted efforts were made to assure that the county develop mitigation strategies that included activities and initiatives covering the range of mitigation action types described in FEMA planning guidance (FEMA "Local Mitigation Planning Handbook" March 2013), specifically:

- Prevention Projects – These actions include governmental regulatory authorities, including policies or codes that influence the way land and buildings are being developed and built.
- Property Protection Projects – Actions that involve the modification of existing buildings or structures to protect them from a hazard, or removal from the hazard area. Examples include

acquisition, elevation, relocations, structural retrofits, storm shutters, and shatter-resistant glass. Wildland fuel reduction projects are also included in this category.

- Structural Projects - These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct manmade structures to reduce the impact of hazards.

- Natural Resource Protection Projects – These are actions that minimize damage and losses, and also preserve or restore the functions of natural systems.

- Education and Awareness Programs – These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as the National Flood Insurance Program and Community Rating System, StormReady (NOAA) and FireWise (NFPA) Communities.

- Emergency Service Projects – These are actions to enhance community preparedness through training and acquisition of equipment.

- Mapping/Analysis/Planning Projects – These actions include development of mapping and planning documents to assist with implementation of mitigation strategies.

In consideration of federal and state mitigation guidance, the MHMP Planning Team recognized that all communities would benefit from the inclusion of certain mitigation actions. These include initiatives to address vulnerable public and private properties, including repetitive loss properties; initiatives to support continued and enhanced participation in the NFIP; improved public education and awareness programs; and initiatives to support county-wide and regional efforts to build greater local mitigation capabilities.

Mitigation actions included in the 2019 Yellowstone County mitigation strategy are presented in **Table 5.5-2** at the end of this Section. **Appendix C-3** contains a mitigation action plan with individual project worksheets.

5.5.2 Mitigation Strategy Benefit/Cost Review and Prioritization

Each of the proposed mitigation actions has value; however, time and financial constraints do not permit all projects to be implemented immediately. By prioritizing the actions, the most critical, cost effective projects can be achieved in the short term. Mitigation actions retained and developed for this updated MHMP were re-prioritized to reflect current conditions and anticipated needs over the next five years.

Section 201.6.c.3iii of 44CFR requires the prioritization of the action plan to emphasize the extent to which benefits are maximized according to a cost/benefit review of the proposed projects and their associated costs. Stated otherwise, cost-effectiveness is one of the criteria that must be applied during the evaluation and prioritization of all actions comprising the overall mitigation strategy.

The benefit/cost review used for the evaluation and prioritization of projects in this plan was qualitative; i.e. it does not include the level of detail required by FEMA for project grant eligibility under the HMGP and PDMC grant program.

- **Costs** are the total cost for the action or project, and may include administrative costs, construction costs (including engineering, design and permitting), and maintenance costs.
- **Benefits** are the savings from losses avoided attributed to the implementation of the project, and may include life-safety, structure and infrastructure damages, loss of service or function, and economic and environmental damage and losses.

When available, jurisdictions were asked to identify the actual or estimated dollar value for project costs and associated benefits. Having defined costs and benefits allows a direct comparison of benefits versus costs, and a quantitative evaluation of project cost-effectiveness. Often, however, numerical costs and/or benefits have not been identified, or may be impossible to quantitatively assess.

For the purposes of this planning process, a cost-benefit matrix was developed to rank the mitigation projects using the following criteria. Each project was assigned a "high", "medium", or "low" rank for *Population Impacted, Property Impacted*, *Project Feasibility* and *Cost*, as described below:

- For the *Population Protected* category, a "high" rank represents greater than 50 percent of County residents would be protected by implementation of the mitigation strategy; a "medium" rank represents 20 to 50 percent of County residents would be protected; and, a "low" rank represents less than 20 percent of County residents would be protected.
- For the *Property Protected* category, a "high" represents that greater than $500,000 worth of property would be protected through implementation of the mitigation strategy; "medium" represents that $100,000 to $500,000 worth of property would be protected; and, "low" would be less than $100,000 would be protected.
- For the *Project Feasibility* category a "high" rank represents that technology is available and implementation is likely; a "medium" rank indicates technology may be available but implementation could be difficult; and, a "low" rank represents that no technology is available or implementation would be unlikely.
- For the *Project Cost* category, a "high" represents that the mitigation project would cost more than $500,000; a "medium" rank represents the project cost would be between $100,000 and $500,000; and, "low" represents the project would cost less than $100,000.

The overall cost-benefit was then calculated by summing the total score for each project. **Table 5.5-1** presents the cost-benefit scoring matrix. The mitigation action plans in **Appendix C-3** present the scoring of each project.

Table 5.5-1. Cost-Benefit Scoring Matrix

Score	Population Protected	Property Protected	Project Feasibility	Cost
High	3	3	3	1
Medium	2	2	2	2
Low	1	1	1	3

After considering all mitigation projects, the MHMP Planning Team prioritized the projects as high, medium, or low based on which projects were most needed to protect life and property. Prioritization of the projects serves as a guide for choosing and funding projects. **Table 5.5-2** presents the County priority for each project.

5.5.3 Project Implementation

The MHMP Planning Team reviewed the projects and assigned a corresponding county, city department responsible for its implementation. Cooperating organizations for implementation may also include local, federal or regional agencies that are capable of implementing activities and programs. The Planning Team identified a schedule for implementation and potential funding sources. The schedule for implementation included several categories including: "ongoing" for projects that are part of the County's emergency management program; "short-term" for projects to be completed within 1-2 years; "mid-term" for projects to be completed within 3-4 years; and, "long-term" for projects to be completed in 5 or more years.

Implementation details are shown in **Table 5.5-3** and in the mitigation action plans in **Appendix C-3.** Yellowstone County DES will be responsible for mitigation project administration.

Table 5.5-2. Yellowstone County 2019 Mitigation Strategy

Goal	Objective	Project	Hazard	Jurisdiction	Benefit-Cost Ranking/Score	County Priority
Goal 1 - Reduce Impacts from Severe Weather and Drought	Objective 1.1 - Implement Structural Projects to Reduce Impacts from Severe Weather and Drought	1.1.1 - Encourage development of tornado safe rooms in schools, including Broadview Elementary.	Severe Weather	County, Billings, Laurel, Broadview	Medium / 6	Medium
		1.1.2 - Create an alternate water supply for the City of Billings with off stream storage and water treatment.	Drought	Billings	Medium / 8	High
	Objective 1.2 - Provide Public Education and Awareness to Reduce Impacts from Severe Weather and Drought	1.2.1 - Continue community outreach on preparation and safety during severe storms and tornadoes.	Severe Weather	County, Billings, Laurel, Broadview	High / 10	High
		1.2.2 - Continue to maintain NWS StormReady status for Yellowstone County and City of Billings and enhance communications and support with the City of Laurel.	Severe Weather	County, Billings, Laurel	High / 12	High
		1.2.3 - Encourage community partners to participate in NWS Weather Ready Nation Ambassador program.	Severe Weather	County, Billings, Laurel, Broadview	High / 12	High
		1.2.4 - Support drought programs implemented through the Conservation District, NWS, FSA, NRCS, DNRC, and MSU Extension.	Drought	County	High / 10	High
	Objective 1.3 - Implement Property Protection Projects to Reduce Impacts from Severe Weather and Drought	1.3.1 - Encourage utility companies to ensure right-of-way around power lines are free of trees or limbs that could cause damage.	Severe Weather	County, Billings, Laurel, Broadview	High / 11	High
		1.3.2 - On older structures as needed, install 3-mil window film on windows of schools and critical facilities to prevent shattering.	Severe Weather	County, Billings, Laurel, Broadview	High / 11	Medium
	Objective 1.4 – Implement Prevention Projects to Reduce Impacts from Severe Weather and Drought	1.4.1 - Encourage utility companies to bury electric and communication lines in hazard prone areas.	Severe Weather	County, Billings, Laurel, Broadview	Medium / 8	High
		1.4.2 - Promote the use of hurricane clips for buildings vulnerable to high winds.	Severe Weather	County, Billings, Laurel, Broadview	High / 10	Medium
		1.4.3 - Encourage water conservation by domestic, municipal, and industrial users.	Drought	County, Billings, Laurel	High / 10	High
Goal 2 - Reduce Impacts from Wildfire	Objective 2.1 - Implement Planning, Mapping and/or Analysis Projects to Reduce Impacts from Wildfire	2.1.1 - Conduct wildland fire mapping to identify high-risk areas.	Wildfire	County	High / 10	High
		2.1.2 - Develop database of hazardous fuel assessments and landowner fuel reductions projects to support future grants.	Wildfire	County, Billings	High / 11	High
		2.1.3 - Update Yellowstone County Community Wildfire Protection Plan.	Wildfire	County, Billings, Laurel, Broadview	High / 11	Medium
		2.1.4- Conduct feasibility study to identify best method to dispose of fuel mitigated material so all of it doesn't have to travel long distances to come to landfill.	Wildfire	County	High / 10	High
	Objective 2.2 - Provide Public Education and Awareness to Reduce Impacts from Wildfire	2.2.1 - Continue community outreach on FireWise building practices in the wildland urban interface.	Wildfire	County, Billings, Laurel, Broadview	High / 11	High

Table 5.5-2. Yellowstone County 2019 Mitigation Strategy

Goal	Objective	Project	Hazard	Jurisdiction	Benefit-Cost Ranking/Score	County Priority
Goal 2 - Reduce Impacts from Wildfire	Objective 2.2 - Provide Public Education and Awareness to Reduce Impacts from Wildfire	2.2.2 - Promote and encourage individual fire departments to implement a FireWise program that will create fire adapted communities throughout the county.	Wildfire	County, Billings, Laurel, Broadview	High / 11	High
		2.2.3 - Continue pushing out information on Red Flag Warnings for broadcast when conditions exist.	Wildfire	County, Billings, Laurel, Broadview	High / 11	High
		2.2.4 - Provide timely messaging on wildfire smoke to protect vulnerable populations.	Wildfire	County, Billings, Laurel, Broadview	High / 10	High
	Objective 2.3 – Implement Property Protection Projects to Reduce Impacts from Wildfire	2.3.1 - Continue grants programs to support hazardous fuel assessments and cost-share opportunities for landowners to create defensible space in the WUI.	Wildfire	County, Billings, Laurel, Broadview	High / 10	High
	Objective 2.4 - Implement Prevention Projects to Reduce Impacts from Wildfire	2.4.1 - Explore whether subdivision regulations could be strengthened to require defensible space and construction with fire-proof materials.	Wildfire	County, Billings, Laurel	Medium / 9	High
	Objective 2.5 - Enhance Emergency Service Capabilities to Reduce Impacts from Wildfire	2.5.1 - Continually improve fire agency training and infrastructure.	Wildfire	County, Billings, Laurel, Broadview	High / 12	High
		2.5.2 - Develop database of water supplies, access points, and fire breaks, and other relevant criteria to enhance fire agency response.	Wildfire	County, Broadview	High / 11	High
Goal 3 - Reduce Impacts from Ditch and Drain Failure	Objective 3.1 - Implement Structural Projects to Reduce Impacts from Ditch and Drain Failure	3.1.1 - Remove unstable rocks above North 14th Street that could fall and block BBWA ditch at tunnel entrance.	Ditch and Drain Failure	Billings	Medium / 9	High
		3.1.2 - Re-establish City-County Drain Outfall, at Washington Street with an adjustable weir and 4,500 feet of 48 " diameter pipe washed out in the 2018 Spring runoff.	Ditch and Drain Failure	Billings	Medium / 9	High
		3.1.3 - Locate and re-establish unloader structures used to divert surge flow throughout the County and Billings and identify potential downstream impacts.	Ditch and Drain Failure	County, Billings	Medium / 9	High
		3.1.4 - Evaluate, maintain and improve rip-rap along Yellowstone River from Laurel to Huntley near ditch head gates to prevent failures that may cause uncontrolled flows into ditches increasing flood risk.	Ditch and Drain Failure	County, Billings, Laurel	Medium / 9	High
		3.1.5 - Install rip-rap along Yellowstone River for approximately 2,200 feet at Huntley Project to protect diversion dam and drainage ditch and maintain irrigation.	Ditch and Drain Failure	County	Medium / 8	High
	Objective 3.2 - Implement Planning, Analysis and Mapping Project to Reduce Impacts from Ditch and Drain Failure	3.2.1 - Assess legal status of existing irrigation ditches and drains to determine Municipal legal authority for operations and maintenance responsibilities.	Ditch and Drain Failure	Billings	High / 10	High
		3.2.2 - Conduct bank stability assessment of BBWA canal and laterals within the Billings City limits.	Ditch and Drain Failure	County, Billings	High / 11	High
		3.2.3 - Conduct feasibility study to reduce risk of ditch failure that could impact EOC, City-County dispatch and both hospitals.	Ditch and Drain Failure	Billings	High / 11	High

Table 5.5-2. Yellowstone County 2019 Mitigation Strategy

Goal	Objective	Project	Hazard	Jurisdiction	Benefit-Cost Ranking/Score	County Priority
Goal 3 - Reduce Impacts from Ditch and Drain Failure	Objective 3.2 - Implement Planning, Analysis and Mapping Project to Reduce Impacts from Ditch and Drain Failure	3.2.4 - Conduct study on how to improve drains and outlet structures to mitigate flood risk.	Ditch and Drain Failure	Billings	High / 11	High
		3.2.5 – Encourage BBWA to implement recommendations of Main Canal Evaluation Study.	Ditch and Drain Failure	Billings	High / 12	High
	Objective 3.3 - Implement Property Protection Projects to Reduce Impacts from Ditch and Drain Failure	3.3.1 - Obtain easements to access ditches and drains for operational and maintenance purposes.	Ditch and Drain Failure	Billings	High / 10	High
	Objective 3.4 - Provide Public Education and Outreach to Reduce Impacts from Ditch and Drain Failure	3.4.1 - Continue to provide outreach to citizens that dumping of debris on ditch bank or within ditch can adversely impact the City's stormwater system and increase potential for flooding and cause ditch bank overflows.	Ditch and Drain Failure	County, Billings, Laurel	High / 10	High
Goal 4 - Reduce Impacts from Terrorism, Violence, Civil Unrest, and Cyber Security	Objective 4.1 - Enhance Emergency Service Capabilities to Reduce Impacts from Terrorism, Violence, Civil Unrest, and Cyber Security	4.1.1 - Continue active shooter preparedness training.	Terrorism, Civil Unrest, Violence	County, Billings, Laurel, Broadview	High / 10	High
		4.1.2 - Continue to provide end-user training on email-related threats.	Cyber Security	County, Billings, Laurel, Broadview	High / 11	High
		4.1.3 - Coordinate state/federal agencies and private industry on potential threats that may target critical facilities or large events.	Terrorism, Civil Unrest, Violence	County, Billings	Medium / 9	High
	Objective 4.2 - Provide Public Education and Outreach to Reduce Impacts from Terrorism, Violence, Civil Unrest, and Cyber Security	4.2.1 - Raise level of awareness on what public can do to prevent and /or mitigate threat of lone gunman/active shooter incident (report suspicious or unusual behavior, stop-the-bleed training, etc.)	Terrorism, Civil Unrest, Violence	County, Billings, Laurel	High / 10	High
	Objective 4.3 - Implement Planning, Analysis and Mapping Projects to Reduce Impacts from Terrorism, Violence, Civil Unrest, and Cyber Security	4.3.1 - Conduct comprehensive vulnerability assessment of critical facilities with priorities for enhanced security.	Terrorism, Civil Unrest, Violence	County, Billings, Laurel	High / 12	High
		4.3.2 - Continue to conduct vulnerability assessment of critical cyber infrastructure with priorities for enhanced security.	Cyber Security	County, Billings, Laurel	High / 11	High
		4.3.3 - Develop cloud-based backup system for city-county network systems.	Cyber Security	County, Billings, Laurel	High / 11	High
		4.3.4 - Review Crisis Action Plans in all schools and hospitals to ensure adequate security measures are in place.	Terrorism, Civil Unrest, Violence	County, Billings, Laurel, Broadview	Medium / 9	High
	Objective 4.4 - Implement Structural Projects to Reduce Impacts from Terrorism, Violence, Civil Unrest, and Cyber Security	4.4.1 - Continue physical hardening of critical facilities and schools (i.e. anti-vehicle barricades / interior barricades for locking doors [door kicks, door stops] / perimeter fencing / controlled access gates).	Terrorism, Civil Unrest, Violence	County, Billings, Laurel, Broadview	Medium / 9	High

Table 5.5-2. Yellowstone County 2019 Mitigation Strategy

Goal	Objective	Project	Hazard	Jurisdiction	Benefit-Cost Ranking/Score	County Priority
Goal 5 - Reduce Impacts from Haz-Mat Incidents and Transportation Accidents	Objective 5.1 - Enhance Emergency Service Capabilities to Reduce Impacts from Haz-Mat Incidents and Transportation Accidents	5.1.1 - Encourage legislative support for funding of Billings Regional Haz-Mat response team.	Haz-Mat Incidents	County, Billings, Laurel, Broadview	High / 11	High
		5.1.2 - Obtain personal protective kits for Laurel first responders and patrol cars so they can secure scene before haz-mat team arrive.	Haz-Mat Incidents	Laurel	Medium / 9	High
		5.1.3 - Provide basic and refresher haz-mat response training with first responders and exercise regularly.	Haz-Mat Incidents	County, Billings, Laurel	High / 11	High
		5.1.4 - Update and maintain resource list of emergency response supplies and vendors.	Haz-Mat Incidents	County, Billings, Laurel, Broadview	High / 12	High
		5.1.5 - Identify railroad point of contact and establish protocol to shut down rail traffic when needed.	Transportation Accidents	County, Billings, Laurel	High / 10	High
		5.1.6 - Increase participation of local, state and federal partners, industry, and utilities in Yellowstone County LEPC.	Haz-Mat Incidents	County, Billings, Laurel, Broadview	High / 12	High
	Objective 5.2 - Provide Public Education and Awareness to Reduce Impacts from Haz-Mat and Transportation Accidents	5.2.1 - Improve public messaging when episodes of refinery flaring occur.	Haz-Mat Incidents	Billings, Laurel	High / 10	High
	Objective 5.3 - Implement Planning, Mapping and Analysis Projects to Reduce Impacts from Haz-Mat and Transportation Accidents	5.3.1 - Identify and prioritize intersections that could be improved to enhance safety.	Transportation Accidents	County, Billings, Laurel	High / 11	High
	Objective 5.4 - Implement Prevention Projects to Reduce Impacts from Haz-Mat and Transportation Accidents	5.4.1 - Protect storm drains in industrial areas to ensure no hazardous materials are released to the river.	Haz-Mat Incidents	Laurel	Medium / 8	High
Goal 6 - Reduce Impacts from Flooding and Dam Failure	Objective 6.1 - Implement Property Protection Projects to Reduce Impacts from Flooding and Dam Failure	6.1.1 - Continue to implement Stormwater Master Plan to reduce impacts to private property from surface water runoff.	Flooding	Billings	Medium / 8	High
		6.1.2 - Evaluate and replace culverts at street crossing in Billings. Upgrade and maintain culverts, bridges, and roads to improve conveyance of flood water elsewhere in the county.	Flooding	County, Billings, Laurel, Broadview	High / 10	High
	Objective 6.2 - Provide Public Education and Awareness to Reduce Impacts from Flooding and Dam Failure	6.2.1 - Continue community outreach on potential for flooding.	Flooding	County, Billings, Laurel	High / 11	High
		6.2.2 - Promote that homeowners in flood-prone areas purchase flood insurance through National Flood Insurance Program.	Flooding	County, Billings, Laurel, Broadview	High / 10	High

Table 5.5-2. Yellowstone County 2019 Mitigation Strategy

Goal	Objective	Project	Hazard	Jurisdiction	Benefit-Cost Ranking/Score	County Priority
Goal 6 - Reduce Impacts from Flooding and Dam Failure	Objective 6.3 - Implement Planning, Mapping and/or Analysis Projects to Reduce Impacts from Flooding and Dam Failure	6.3.1 - Study options for mitigating stormwater runoff from Highway 3 near Billings Airport.	Flooding	Billings	High / 10	High
		6.3.2 - Assess flood potential at Zoo Montana property and address options for managing zoo animals in the event of a flood.	Flooding	Billings	High / 10	Medium
		6.3.3 - Update boundaries of approximate study areas for future floodplain mapping.	Flooding	Billings	Medium / 9	High
	Objective 6.4 - Implement Structural Projects to Reduce Impacts from Flooding and Dam Failure	6.4.1 - Construct two small storage features on Cove and Little Cove Creeks and improve flood conveyance through the West Billings area.	Flooding	Billings	Medium / 9	High
		6.4.2 - Consider certifying dikes around water and wastewater treatment plants to ensure adequate protection.	Flooding	Billings, Laurel	Medium / 9	Medium
		6.4.3 - Update flood protection measures at Riverside Park in Laurel to prevent flooding.	Flooding	Laurel	Medium / 8	Medium
	Objective 6.5 - Implement Prevention Projects to Reduce Impacts from Flooding and Dam Failure	6.5.1 - Review NFIP Repetitive Loss properties in Yellowstone County and address means to eliminate or reduce impacts from flooding.	Flooding	County	Medium / 9	Medium
		6.5.2 - Strengthen subdivision regulations to ensure homes are not built where potentially impacted by flood flows from dry washes.	Flooding	County	High / 10	Medium
	Objective 6.6 - Enhance Emergency Service Capabilities to Reduce Impacts from Flooding & Dam Failure	6.6.1 - Participate in dam failure exercises on high hazard dams that could impact Yellowstone County.	Dam Failure	County, Billings, Laurel	High / 11	Medium
Goal 7 - Reduce Impacts from Communicable Disease	Objective 7.1 - Implement Prevention Projects to Reduce Impacts from Communicable Disease	7.1.1 - Increase immunization rates for vaccine preventable communicable disease in all populations.	Communicable Disease	County, Billings, Laurel, Broadview	High / 10	High
		7.1.2 - Continue to prevent and control communicable disease by surveillance.	Communicable Disease	County, Billings, Laurel, Broadview	High / 10	High
		7.1.3 - Continue to conduct risk-based inspections of all food service establishments.	Communicable Disease	County, Billings, Laurel, Broadview	High / 10	High
	Objective 7.2 - Implement Public Education and Awareness Projects to Reduce Impacts from Communicable Disease	7.2.1 - Continue to promote public education on preventing communicable disease.	Communicable Disease	County, Billings, Laurel, Broadview	High / 10	High
		7.2.2 - Continue to provide education and/or training for Health Dept. staff and key partners in medical community.	Communicable Disease	County, Billings, Laurel, Broadview	High / 10	High
	Objective 7.3 - Enhance Emergency Service Capabilities to Reduce Impacts from Communicable Disease	7.3.1 - Collaborate with community partners to train and exercise public health emergency response plans.	Communicable Disease	County, Billings, Laurel, Broadview	High / 10	High
		7.3.2 - Expand listserve for Health Alert Network.	Communicable Disease	County, Billings, Laurel, Broadview	High / 10	High
	Objective 7.4 - Implement Planning, Mapping, and Analysis Projects to Reduce Impacts from Disease	7.4.1 - Collaborate and coordinate with community partners to review and update public health emergency response plans annually.	Communicable Disease	County, Billings, Laurel, Broadview	High / 10	High

Table 5.5-2. Yellowstone County 2019 Mitigation Strategy

Goal	Objective	Project	Hazard	Jurisdiction	Benefit-Cost Ranking/Score	County Priority
Goal 8 - Reduce Impacts from Landslide and Rock Falls Hazards	Objective 8.1 - Implement Structural Projects to Reduce Impacts from Landslide and Rock Fall Hazards	8.1.1 - Identify, preserve, and stabilize rock fall-prone areas.	Rock Fall / Landslide	County, Billings	Medium / 9	High
Goal 9 - Reduce Impacts Associated with All Hazards	Objective 9.1 - Enhance Emergency Service Capabilities to Mitigate Impacts from All Hazards	9.1.1 - Implement mass notification capabilities throughout Yellowstone County.	All Hazards	County, Billings, Laurel, Broadview	High / 11	High
		9.1.2 - Enhance rural communications by coordinating and cooperating on getting First Net in place in Yellowstone County to improve first responder communications.	All Hazards	County, Billings, Laurel, Broadview	High / 11	High
		9.1.3 - Obtain mobile repeaters for patrol cars.	All Hazards	County	High / 10	High
		9.1.4 - Identify facilities that meet national standards to serve as emergency shelters and create Memorandums of Understanding.	All Hazards	County, Billings, Laurel, Broadview	Medium / 9	High
		9.1.5 - Obtain stationary and/or mobile generators for critical facilities and emergency shelters and install hookups.	All Hazards	County, Billings, Laurel, Broadview	Medium / 8	High
		9.1.6 - Recruit and train emergency response personnel	All Hazards	County, Billings, Laurel, Broadview	High / 10	High
		9.1.7 - Continue to aggressively address rural properties.	All Hazards	County	Medium / 8	High
	Objective 9.2 - Implement Public Education and Awareness Projects to Reduce Impacts from All Hazards	9.2.1 - Interact with public safety officials and schools on planning for emergencies.	All Hazards	County, Billings, Laurel, Broadview	High / 10	High
		9.2.2 - Provide special needs facilities with guidelines for disaster preparedness, including pet needs.	All Hazards	County, Billings, Laurel, Broadview	Medium / 8	High
	Objective 9.3 - Implement Planning, Mapping, and/or Analysis Projects to Reduce Impacts from All Hazards	9.3.1 - Enhance GIS data to better to assist with hazard mitigation.	All Hazards	County, Billings, Laurel, Broadview	High / 10	High
		9.3.2 - Develop plan for short-term water supply in Billings.	All Hazards	Billings	Medium / 9	High
	Objective 9.4 - Implement Prevention Projects to Mitigate Impacts from All Hazards	9.4.1 - Update growth policies and subdivision regulations as needed to consider hazard mitigation.	All Hazards	County, Billings	High / 10	High

Notes: BBWA = Billings Bench Water Association; DNRC = Montana Department of Natural Resources and Conservation; EOC = Emergency Operations Center; FSA = Farm Service Agency; GIS = Geographic Information System; MSU = Montana State University; NFIP = National Flood Insurance Program; NRCS = Natural Resources Conservation Service; NWS = National Weather Service; WUI = Wildland Urban Interface.

Table 5.5-3. Yellowstone County 2019 Mitigation Strategy – Implementation Details

Project	Jurisdiction	Responsible Agency / Department	Progress Made	Planned Activities	Schedule	Potential Funding Source
SEVERE WEATHER AND DROUGHT MITIGATION PROJECTS						
1.1.1 - Encourage development of tornado safe rooms in schools, including Broadview Elementary.	County, Billings, Laurel, Broadview	DES, LEPC, School Districts	No progress to report.	Determine specifications for safe room. Inventory schools and identify existing where safe rooms exist. Prioritize facilities and seek funding to create additional safe rooms.	Mid-term	School District funding, Grants
1.1.2 - Create an alternate water supply for the City of Billings with off stream storage and water treatment.	Billings	Billings Public Works	New project for 2019 Plan.	City to construct 290-acre reservoir which will provide Billings area 6 months of water. Land acquisition complete. Move forward with contracting and construction over next three years.	Mid-term	Billings resources
1.2.1 - Continue community outreach on preparation and safety during severe storms and tornadoes.	County, Billings, Laurel, Broadview	DES, LEPC, 911 Dispatch, NWS	Tornado sirens exist throughout county and tested twice monthly. Drills announced publicly in conjunction with NWS Severe Weather Week. CodeRed currently being implemented.	Participate in NWS monthly webinars/conference calls. Use social media to enroll citizens in CodeRed. NWS to educate alerting authorities on the advantages and limitations of CodeRed. Hold community seminars on public readiness including "Weather-Ready Wednesdays" geared toward current seasonal threats. NWS to identify larger outdoor events at risk for hazardous weather. Provide training and preparedness for organizers leading up to and support during event.	Ongoing	County resources, NWS
1.2.2 - Continue to maintain NWS StormReady status for Yellowstone County and City of Billings and enhance communications and support with the City of Laurel.	County, Billings, Laurel	DES, 911	New project for 2019 Plan.	Continue to conduct spotter training sessions, at least 3 annually including Laurel. Schedule weather spotter training classes. Establish backup for warning notification.	Ongoing	County resources, Billings and Laurel resources, NWS
1.2.3 - Encourage community partners to participate in NWS Weather Ready Nation Ambassador program.	County, Billings, Laurel, Broadview	DES, LEPC	New project for 2019 Plan.	Push info out on social media to get organizations involved.	Ongoing	County resources
1.2.4 - Support drought programs implemented through the Conservation District, NWS, FSA, NRCS, DNRC, and MSU Extension.	County	DES, County Extension Service	New project for 2019 Plan.	Push info out on drought awareness via social media. Publicize workshops on drought mitigation offered by others.	Ongoing	County resources
1.3.1 - Encourage utility companies to ensure right-of-way around power lines are free of trees or limbs that could cause damage.	County, Billings, Laurel, Broadview	Commissioners, LEPC	New project for 2019 Plan.	Identify problem areas and submit formal request to utility companies if needed.	Ongoing	County resources

Table 5.5-3. Yellowstone County 2019 Mitigation Strategy – Implementation Details

Project	Jurisdiction	Responsible Agency / Department	Progress Made	Planned Activities	Schedule	Potential Funding Source
1.3.2 - On older facilities as needed, install 3-mil window film on windows of schools and critical facilities to prevent shattering.	County, Billings, Laurel, Broadview	School Districts	New project for 2019 Plan.	Identify facilities where window film is needed. Apply for grant to fund project. Implement as appropriate.	Ongoing	School Districts, Grants
1.4.1 - Encourage utility companies to bury electric and communication lines in hazard areas.	County, Billings, Laurel, Broadview	Commissioners, LEPC	New project for 2019 Plan.	Identify hazard areas where underground utilities are warranted. Invite utility companies to LEPC meeting and make formal request. Consider subdivision regulations that require underground utilities.	Ongoing	County resources
1.4.2 - Promote the use of hurricane clips for buildings vulnerable to high winds	County, Billings, Laurel, Broadview	DES, Billings Planning Dept.	New project for 2019 Plan.	Requirement in current Billings city code. Use social media to encourage citizens to upgrade during retrofits.	Ongoing	County and City resources.
1.4.3 - Encourage water conservation by domestic, municipal, and industrial users.	County, Billings, Laurel	DES, Billings and Laurel Public Works	New project for 2019 Plan.	Cities can declare drought emergency. Continue to restrict water usage with tiered system when needed. Publicize city requirement for low flow toilets.	Ongoing	City resources.
WILDFIRE MITIGATION PROJECTS						
2.1.1 - Conduct wildland fire mapping to identify high-risk areas.	County	DES, County GIS, BLM, DNRC	City of Billings has been aggressive with response zone mapping. Situation Analyst software provides maps to emergency managers.	Get input from BLM and DNRC on where mapping is needed. Integrate GIS technology to develop assessments using slope/fuels/land cover data.	Short-term	County resources, DNRC, BLM
2.1.2 - Develop database of hazardous fuel assessments and landowner fuel reductions projects to support future grants.	County, Billings	DES	New project for 2019 Plan.	Review files from past projects and consolidate electronically in user-friendly format.	Short-term	County resources
2.1.3 - Update Yellowstone County Community Wildfire Protection Plan.	County, Billings, Laurel, Broadview	DES, Fire Council	New project for 2019 Plan.	Seek funding for plan update. Complete fire mapping and capability assessment. Hire contractor to update CWPP.	Mid-term	FEMA Grant, MT DES, DNRC
2.1.4- Conduct feasibility study to identify best method to dispose of fuel mitigated material so all of it doesn't have to travel long distances to come to landfill.	County	DES, Fire Council	New project for 2019 Plan.	Evaluate alternatives and perform cost/benefit analysis of consolidation of material and local burn areas, mobile incinerator, mastication of material for composting, and others. Seek grant for funding	Short-term	County resources
2.2.1 - Continue community outreach on FireWise building practices in the wildland urban interface.	County, Billings, Laurel, Broadview	DES, Fire Council	DES and individual depts. have done outreach.	Continue same using social media, at county fair, building expos, etc.	Ongoing	County resources

Table 5.5-3. Yellowstone County 2019 Mitigation Strategy – Implementation Details

Project	Jurisdiction	Responsible Agency / Department	Progress Made	Planned Activities	Schedule	Potential Funding Source
2.2.2 - Promote and encourage individual fire departments to implement a FireWise program that will create fire adapted communities throughout the county.	County, Billings, Laurel, Broadview	DES, Fire Council, DNRC	New project for 2019 Plan.	Utilize FireWise website for available resources. Provide opportunities and incentives for citizens to participate.	Ongoing	County resources
2.2.3 - Continue pushing out information on Red Flag Warnings for broadcast when conditions exist.	County, Billings, Laurel, Broadview	DES, NWS	New project for 2019 Plan.	Coordinate with NWS. Utilize social media, broadcast media to publicize dangerous conditions.	Ongoing	NWS, County resources
2.2.4 - Provide timely messaging on wildfire smoke to protect vulnerable populations.	County, Billings, Laurel, Broadview	DES, County Health Dept., School Districts	New project for 2019 Plan.	Coordinate with MT DEQ and NWS when poor air quality conditions exist. Inform public by broadcast and social media.	Ongoing	County resources
2.3.1 - Continue grants programs to support hazardous fuel assessments and cost-share opportunities for landowners to create defensible space in the WUI.	County, Billings, Laurel, Broadview	DES, BLM, DNRC	New project for 2019 Plan.	Coordinate with federal and state partners on grant opportunities. Publicize program to garner support and participation.	Ongoing	Federal and state grants
2.4.1 - Explore whether subdivision regulations could be strengthened to require defensible space and construction with fire-proof materials.	County, Billings, Laurel	County and City Planning Depts.	New project for 2019 Plan.	Cities to consider during update of subdivision regulations. County to encourage through growth policy since no ability to enforce.	Ongoing	County and city resources.
2.5.1 - Continually improve fire agency training and infrastructure.	County, Billings, Laurel, Broadview	Fire Council	New project for 2019 Plan.	Identify needs. Update depts. of training and grant opportunities.	Ongoing	County and city resources
2.5.2 - Develop database of water supplies, access points, and fire breaks, and other relevant criteria to enhance fire agency response.	County, Broadview	Fire Council	New project for 2019 Plan.	Water supplies have been mapped. Create database and input information on access points, fire breaks, and other relevant data. Integrate County GIS water source data.	Short-term	DNRC, County resources
DITCH AND DRAIN FAILURE MITIGATION PROJECTS						
3.1.1 - Remove unstable rocks above North 14th Street that could fall and block BBWA ditch at tunnel entrance.	Billings	BBWA, Billings Public Works	New project for 2019 Plan.	Continue coordination meetings. Develop design. Hire contractor. Implement project.	Mid-term	City resources monies approved by City Council February 25, 2019, BBWA, Grants
3.1.2 - Re-establish City-County Drain Outfall, at Washington Street with an adjustable weir and 4,500 feet of 48 " diameter pipe washed out in the 2018 Spring runoff.	Billings	Billings Public Works	New project for 2019 Plan.	Continue design work. Hire contractor. Implement project.	Short-term	City resources

Table 5.5-3. Yellowstone County 2019 Mitigation Strategy – Implementation Details

Project	Jurisdiction	Responsible Agency / Department	Progress Made	Planned Activities	Schedule	Potential Funding Source
3.1.3 - Locate and re-establish unloader structures used to divert surge flow throughout the County and Billings and identify potential downstream impacts.	County, Billings	County and Billings Public Works, BBWA	New project for 2019 Plan.	Identify other locations where water could be discharged. Initiate conversation with Zoo MT on allowing water discharge. Improve structure on Canyon Creek if feasible.	Long-term	BBWA and other ditch associations County & City resources, Grants
3.1.4 - Evaluate, maintain and improve rip-rap along Yellowstone River from Laurel to Huntley near ditch head gates to prevent failures that may cause uncontrolled flows into ditches increasing flood risk.	County, Billings, Laurel	BBWA, DNRC, USACE	New project for 2019 Plan.	Work with DNRC and USACE on permitting to minimize risks associated with ditch flows overtopping due to river migration. Identify and secure funding for project.	Mid-term	BBWA, Grants
3.1.5 - Install rip-rap along Yellowstone River for approx. 2,200 ft at Huntley Project to protect diversion dam and drainage ditch and maintain irrigation.	County	HPID	New project for 2019 Plan.	Work with DNRC and USACE on permitting to address river migration that threatens irrigation capabilities. Identify and secure funding for project.	Long-term	HPID, Grants
3.2.1 - Identify ownership of ditches and drains to determine operations and maintenance responsibilities.	Billings	Billings Public Works	New project for 2019 Plan.	Identify and secure funding for title report. Hire firm.	Mid-term	City resources, grants
3.2.2 - Conduct investigation of canals as they come through Billings for bank stability.	County, Billings	BBWA	New project for 2019 Plan.	Identify additional funding to be used to match grant funds. Hire firm to assess at least 3 miles of ditch to identify high steep banks. Prioritize ditch lining projects including BBWA canal, Shiloh/King/W. 32nd.	Mid-term	BBWA, Grants
3.2.3 - Conduct feasibility study to reduce risk of ditch failure that could impact EOC, City-County dispatch and both hospitals.	Billings	Billings Public Works	New project for 2019 Plan.	Identify and secure funding. Hire firm. Review report and select alternative. Prepare grant for funding.	Short-term	City resources, grants
3.2.4 - Conduct study on how to improve drains and outlet structures to mitigate flood risk.	Billings	Billings Public Works	New project for 2019 Plan.	Identify and secure funding. Hire firm. Review report and select alternative. Prepare grant for funding.	Short-term	City resources, grants
3.2.5 – Encourage BBWA to implement recommendations of Main Canal Evaluation Study.	Billings	Billings Public Works	New project for 2019 Plan.	Encourage BBWA to secure funding, hire design consultant, develop designs, implement according to priorities.	Long-term	BBWA resources, grants
3.3.1 - Obtain easements to access ditches and drains for operational and maintenance purposes.	Billings	Billings Public Works, Ditch and Drain Boards	New project for 2019 Plan.	Once ownership determined, negotiate to purchase easement. Prepare grant to fund project.	Mid-term	City resources, grants
3.4.1 - Continue to provide outreach to citizens that dumping of debris on ditch bank or within ditch can adversely impact the City's stormwater system and increase potential for flooding and cause ditch bank overflows.	County, Billings, Laurel	Billings Public Works	New project for 2019 Plan.	Continue to put out signs and send letters to residents. Use GIS to segregate properties and cue out residents.	Ongoing	City resources

Table 5.5-3. Yellowstone County 2019 Mitigation Strategy – Implementation Details

Project	Jurisdiction	Responsible Agency / Department	Progress Made	Planned Activities	Schedule	Potential Funding Source
TERRORISM, VIOLENCE, CIVIL UNREST, CYBER SECURITY MITIGATION PROJECTS						
4.1.1 - Continue active shooter preparedness training.	County, Billings, Laurel, Broadview	DES, law enforcement, DHS	New project for 2019 Plan.	Provide ongoing training to emergency response personnel and in schools (especially substitute teachers). Coordinate with Fire Depts. and Building officials to eliminate conflict in messaging.	Ongoing	County & city resources, DHS
4.1.2 - Continue to provide end-user training on email-related threats.	County, Billings, Laurel, Broadview	City and County IT Depts., DHS, MATIC	New project for 2019 Plan.	Provide education to city and county personnel on phising campaigns and others issues as threat landscape changes. Provide refresher training annually.	Ongoing	County & city resources, DHS
4.1.3 - Coordinate state/federal agencies and private industry on potential threats that may target critical facilities or large events.	County, Billings	LEPC, DHS, MT Dept. Justice MATIC, FBI, private industry	New project for 2019 Plan.	Utilize state and federal resources to broaden awareness of potential threats. Utilize private industry expertise to identify and prevent incidents.	Ongoing	County & city resources, state & federal partners, private industry
4.2.1 - Raise level of awareness on what public can do to prevent and /or mitigate threat of lone gunman/active shooter incident (report suspicious or unusual behavior, stop-the-bleed training, etc.)	County, Billings, Laurel	DES, DHS, Chamber of Commerce, MT Migrant Worker Council	New project for 2019 Plan.	Utilize DHS curriculum and disseminate through Chamber of Commerce, print and social media. Translate message into multiple languages.	Ongoing	County resources, DHS
4.3.1 - Conduct comprehensive vulnerability assessment of critical facilities with priorities for enhanced security.	County, Billings, Laurel	DES, DHS, Law Enforcement, City and County Building Depts.,	New project for 2019 Plan.	Identify high risk areas and what needs to be fixed as per objectives. Provide information so officials can make decisions. Mitigate vulnerabilities.	Mid-term	County & city/town resources, DHS
4.3.2 - Continue to conduct vulnerability assessment of critical cyber infrastructure with priorities for enhanced security.	County, Billings, Laurel	County and City IT Depts, DHS	New project for 2019 Plan.	Evaluate networks and firewalls as needed to ensure security. Update protective software.	Ongoing	County & city/town resources, DHS
4.3.3 - Develop cloud-based backup system for city-county network systems.	County, Billings, Laurel	County and City IT Depts, DHS	New project for 2019 Plan.	Determine equipment needed to redirect traffic/keep flow going in event of cyber-attack. Obtain funding. Establish protocols and test system.	Short-term	County & city resources
4.3.4 - Review Crisis Action Plans in all schools and hospitals to ensure adequate security measures are in place.	County, Billings, Laurel, Broadview	School Resource Officers, DES, Hospitals	New project for 2019 Plan.	On annual basis, review and update plans. Schedule exercises.	Ongoing	County & city/ town resources, Hospitals
4.4.1 - Continue physical hardening of critical facilities and schools (i.e. anti-vehicle barricades / interior barricades for locking doors [door kicks, door stops] / perimeter fencing / controlled access gates).	County, Billings, Laurel, Broadview	DES, Law Enforcement, Building Depts., Schools	New project for 2019 Plan.	Continue to explore grant opportunities for surveillance and key lock systems. As funding allows, physically harden all schools and critical facilities.	Ongoing	County & city/town resources, grants

Table 5.5-3. Yellowstone County 2019 Mitigation Strategy – Implementation Details

Project	Jurisdiction	Responsible Agency / Department	Progress Made	Planned Activities	Schedule	Potential Funding Source
HAZARDOUS MATERIAL INCIDENT & TRANSPORTATION ACCIDENT MITIGATION PROJECTS						
5.1.1 - Encourage legislative support for funding of Billings Regional Haz-Mat response team.	County, Billings, Laurel, Broadview	Commissioners, DES, Fire Depts.	New project for 2019 Plan.	Encourage representatives to support funding for regional haz-mat response teams at 2019 legislature.	Short-term	County and city resources
5.1.2 - Obtain personal protective kits for Laurel first responders and patrol cars so they can secure scene before haz-mat team arrive.	Laurel	Laurel Fire Dept., Billings Haz-Mat Team, LEPC	New project for 2019 Plan.	Identify and secure funding for skin protection, respirators, and other equipment as needed for first responders.	Mid-term	City resources
5.1.3 - Provide basic and refresher haz-mat response training with first responders and exercise regularly.	County, Billings, Laurel	Fire Depts., Haz-Mat Team	New project for 2019 Plan.	Provide first responders with basic knowledge on haz-mat capabilities, who to call to ensure quick activation of haz-mat team, securing sites, and maintaining equipment. Exercise and refresh training annually.	Ongoing	County and city resources
5.1.4 - Update and maintain resource list of emergency response supplies and vendors.	County, Billings, Laurel, Broadview	DES, Fire Depts.	New project for 2019 Plan.	List should include county equipment and private resources. Include expiration date on supplies.	Ongoing	County resources
5.1.5 - Identify railroad point of contact and establish protocol to shut down rail traffic when needed.	County, Billings, Laurel	Fire Depts., LEPC, Railroads	New project for 2019 Plan.	Coordinate with railroad to establish procedure. Ensure protocol includes official confirmation messaging.	Short-term	County and city resources.
5.1.6 - Increase participation of local, state and federal partners, industry, and utilities in Yellowstone County LEPC.	County, Billings, Laurel, Broadview	DES, LEPC	New project for 2019 Plan.	Develop expanded email list of prospective LEPC members. Message frequently. Establish shared leadership to engage more members to participate.	Ongoing	County resources
5.2.1 - Improve public messaging when episodes of refinery flaring occur.	Billings, Laurel	DES, MDT, Refineries	New project for 2019 Plan.	Utilize social media and CodeRed to notify residents of flaring. Coordinate with MDT to utilize signs and road closures to protect populations at risk.	Ongoing	County resources
5.3.1 - Identify and prioritize intersections that could be improved to enhance safety.	County, Billings, Laurel	County and City Public Works, MDT	New project for 2019 Plan.	Consider improvements around Metra, refineries, bridge and river crossings (Dick Johnston bridge, 1st Ave. No.). Utilize GIS to look for rerouting alternatives.	Short-term	County and city resources
5.4.1 - Protect storm drains in industrial areas to ensure no hazardous materials are released to the river.	Laurel	City Public Works	New project for 2019 Plan.	Determine best technology and install a fail-safe mechanism to prevent accidental release to river.	Short-term	City resources

Table 5.5-3. Yellowstone County 2019 Mitigation Strategy – Implementation Details

Project	Jurisdiction	Responsible Agency / Department	Progress Made	Planned Activities	Schedule	Potential Funding Source
FLOODING AND DAM FAILURE MITIGATION PROJECTS						
6.1.1 - Continue to implement Stormwater Master Plan to reduce impacts to private property from surface water runoff.	Billings	City Public Works	New project for 2019 Plan.	City moving toward identifying restrictions in current system and improving stormwater infrastructure as per Master Stormwater Plan.	Ongoing	City resources, grants
6.1.2 - Evaluate and replace culverts at street crossing in Billings. Upgrade and maintain culverts, bridges, and roads to improve conveyance of flood water elsewhere in the county.	County, Billings, Laurel, Broadview	County Road Dept., City Public Works	New project for 2019 Plan.	Identify and prioritize culverts for replacement. Identify funding and timeline.	Ongoing	County and city resources, grants
6.2.1 - Continue community outreach on potential for flooding.	County, Billings, Laurel	DES, NWS	Have participated in NWS conference calls and pushed messaging to public when threat exists.	Push out NWS messaging through broadcast and social media to alert citizens when flood potential appears threatening.	DES, NWS	Ongoing
6.2.2 - Promote that homeowners in flood-prone areas purchase flood insurance through National Flood Insurance Program.	County, Billings, Laurel, Broadview	Floodplain administrators	New project for 2019 Plan.	Utilize print and social media to provide information on NFIP to property owners. Ensure FEMA brochures are available at Planning Office and county/city websites have information.	Floodplain administrators	Ongoing
6.3.1 - Study options for mitigating stormwater runoff from Highway 3 near Billings Airport.	Billings	Billings Public Works	MDT has project in planning phase. Issues with homes below rims and runoff.	City to coordinate with MDT on project implementation	Billings Public Works	Mid-term
6.3.2 - Assess flood potential at Zoo Montana property and address options for managing zoo animals in the event of a flood.	Billings	DES, Billings Public Works	No progress to report.	Develop evacuation protocol as annex to EOP. Coordinate with owners to include property as part of Flood Master Plan.	DES, Billings Public Works	Long-term
6.3.3 - Update boundaries of approximate study areas for future floodplain mapping.	Billings	DES, County Floodplain Admin., DNRC	New project for 2019 Plan.	Work with DNRC to extend study area boundaries and secure funding for future mapping effort.	DES, County Floodplain Admin., DNRC	Mid-term
6.4.1 - Construct two small storage features on Cove and Little Cove Creeks and improve flood conveyance through the West Billings area.	Billings	City Public Works	Master Flood Plan in place. Several small detention basins have been constructed; 62nd Rimrock	Expand boundaries. Create partnership and negotiate with Byerly drain district about more efficiently using drainage on west end.	City Public Works	Ongoing
6.4.2 - Consider certifying dikes around water and wastewater treatment plants to ensure adequate protection.	Billings, Laurel	City Public Works, USACE	New project for 2019 Plan.	Review structural integrity of existing dikes. Consider advantages of certification process. Determine course forward.	City Public Works, USACE	Long-term
6.4.3 - Update flood protection measures at Riverside Park in Laurel to prevent flooding.	Laurel	City Public Works, USACE	New project for 2019 Plan.	Identify and secure funding to strengthen levee and prevent erosion. Determine cultural significance of site prior to implementation.	City Public Works, USACE	Long-term

Table 5.5-3. Yellowstone County 2019 Mitigation Strategy – Implementation Details

Project	Jurisdiction	Responsible Agency / Department	Progress Made	Planned Activities	Schedule	Potential Funding Source
6.5.1 - Review NFIP Repetitive Loss properties in Yellowstone County and address means to eliminate or reduce impacts from flooding.	County	Floodplain Administrator	Letter sent to RL owners identifying mitigation grants. Cost share has been hang-up. One owner offered buyout and not interested. One house was moved and dropped off RL list.	Continue same.	Floodplain Administrator	Long-term
6.5.2 - Strengthen subdivision regulations to ensure homes are not built where potentially impacted by flood flows from dry washes.	County	Floodplain Administrator	New project for 2019 Plan	Develop language whereby dry washes are considered as source of flash flooding and disallowed unless engineered drainages are constructed.	Floodplain Administrator	Mid-term
6.6.1 - Participate in dam failure exercises on high hazard dams that could impact Yellowstone County.	County, Billings, Laurel	DES	New project for 2019 Plan.	Ensure that first responders are aware of scheduled exercises for Cooney Dam.	DES	Ongoing
COMMUNICABLE DISEASE MITIGATION PROJECTS						
7.1.1 - Increase immunization rates for vaccine preventable communicable disease in all populations.	County, Billings, Laurel, Broadview	RiverStone Health	New project for 2019 Plan.	Coordinate with DPHHS and local partners to continue community programs. Utilize RiverStone Health website and social media to advertise vaccination clinics.	Ongoing	State, County, and City resources
7.1.2 - Continue to prevent and control communicable disease by surveillance.	County, Billings, Laurel, Broadview	RiverStone Health, DPHHS	New project for 2019 Plan.	Continue to utilize DPHHS MT-IBIS database.	Ongoing	State, County, and City resources
7.1.3 - Continue to conduct risk-based inspections of all food service establishments.	County, Billings, Laurel, Broadview	RiverStone Health, DPHHS	New project for 2019 Plan.	Continue to inspect restaurants including mobile food venders during special events.	Ongoing	State, County, and City resources
7.2.1 - Continue to promote public education on preventing communicable disease.	County, Billings, Laurel, Broadview	RiverStone Health, DPHHS	New project for 2019 Plan.	Continue to utilize Health Alert Network to communicate internally. Send alerts to physicians. Utilize State's 406 Weekly public health messages.	Ongoing	State, County, and City resources
7.2.2 - Continue to provide education and/or training for Health Dept. staff and key partners in medical community.	County, Billings, Laurel, Broadview	RiverStone Health, DPHHS	New project for 2019 Plan.	Provide training on basic emergency response, surveillance and investigation, prevention of outbreaks, mass prophylaxis strategies, risk communication, isolation and quarantine protocols, and continuity of operations.	Ongoing	State, County, and City resources
7.3.1 - Collaborate with community partners to train and exercise public health emergency response plans.	County, Billings, Laurel, Broadview	RiverStone Health, DPHHS	New project for 2019 Plan.	Coordinate with LEPC to develop annual training and exercise schedules.	Ongoing	State, County, and City resources

Table 5.5-3. Yellowstone County 2019 Mitigation Strategy – Implementation Details

Project	Jurisdiction	Responsible Agency / Department	Progress Made	Planned Activities	Schedule	Potential Funding Source
7.3.2 - Expand listserve for Health Alert Network.	County, Billings, Laurel, Broadview	RiverStone Health	New project for 2019 Plan.	Identify additional entities to receive alerts including first responders.	Short-term	County, and City resources
7.4.1 - Collaborate and coordinate with community partners to review and update public health emergency response plans annually.	County, Billings, Laurel, Broadview	RiverStone Health, DPHHS	New project for 2019 Plan.	Comply with DPHHS requirement for quarterly updates with focus on different plans each quarter. Revise plans as needed.	Ongoing	State, County, and City resources
LANDSLIDE / ROCK FALL MITIGATION PROJECTS						
8.1.1 - Identify, preserve, and stabilize rock fall-prone areas.	County, Billings	City and County Public Works Depts.	New project for 2019 Plan.	Perform regular surveillance of Rims to identify loose rock. Implement preventative measures to reduce rock falls. Stabilize rock face after rock fall events.	Ongoing	County and City resources
ALL HAZARD MITIGATION PROJECTS						
9.1.1 - Implement mass notification capabilities throughout Yellowstone County.	County, Billings, Laurel, Broadview	DES	In final stages of procuring Code Red for mass notification.	Implement Code Red system county-wide. Utilized broadcast, print, and social media on how to sign up. Begin first test alerts.	Short-term	Short-term
9.1.2 -Enhance rural communications by coordinating and cooperating on getting First Net in place in Yellowstone County to improve first responder communications.	County, Billings, Laurel, Broadview	DES, LEPC	Counties in former DES District 5 worked together as Big Sky 12 for Interoperability Project.	Assist, as needed, in mapping and identifying locations for First Net cell towers. Focus on rural locations.	Mid-term	Mid-term
9.1.3 - Obtain mobile repeaters for patrol cars.	County	Sheriff's Office	New project for 2019 Plan.	Identify equipment needs and funding. Procure as feasible.	Mid-term	Mid-term
9.1.4 - Identify facilities that meet national standards to serve as emergency shelters and create Memorandums of Understanding.	County, Billings, Laurel, Broadview	DES, American Red Cross	New project for 2019 Plan.	Work with Red Cross to identify shelter locations. Develop template for MOUs. Coordinate with facility owners to get agreements in place.	Mid-term	Mid-term
9.1.5 - Obtain stationary and/or mobile generators for critical facilities and emergency shelters and install hookups.	County, Billings, Laurel, Broadview	DES, Critical Facility Owners	New project for 2019 Plan.	Create prioritized list of generator needs. Apply for funding. Determine hookup specifications for rental generators. Install transfer switches to accept mobile units.	Mid-term	Mid-term
9.1.6 - Recruit and train emergency response personnel	County, Billings, Laurel, Broadview	DES, LEPC	New project for 2019 Plan.	Utilize print, broadcast, social media and word or mouth to recruit. Provide ICS and more specialized training as appropriate.	Ongoing	Ongoing
9.1.7 - Continue to aggressively address rural properties.	County	Dispatch, County Planning Dept.	New project for 2019 Plan.	Utilized print, broadcast, and social media to ensure all rural homes are addressed. Promote placement of addresses at standard height and location.	Ongoing	Ongoing

Table 5.5-3. Yellowstone County 2019 Mitigation Strategy – Implementation Details

Project	Jurisdiction	Responsible Agency / Department	Progress Made	Planned Activities	Schedule	Potential Funding Source
9.2.1 - Interact with public safety officials and schools on planning for emergencies.	County, Billings, Laurel, Broadview	DES, LEPC, School Resource Officer	No progress to report.	Opportunity for new DES Coordinator to work with schools and first responders.	Ongoing	County, City, School District Resources
9.2.2 - Provide special needs facilities with guidelines for disaster preparedness, including pet needs.	County, Billings, Laurel, Broadview	DES, Special Needs Facilities, Migrant Worker Council	New project for 2019 Plan.	Work with facilities to review and update emergency response plans.	Ongoing	County, City, and private resources
9.3.1 - Enhance GIS data to better to assist with hazard mitigation.	County, Billings, Laurel, Broadview	County and City GIS Depts.	New project for 2019 Plan.	Update hazard layers, water sources, shelter locations, and others to assist with emergency management. Provide Fire Depts. continuously with updated road books, wall maps.	Ongoing	County and City resources
9.3.2 - Develop plan for short-term water supply in Billings.	Billings	City Public Works Depts.	New project for 2019 Plan.	Identify resources that could supply bottled water. Develop agreements with distributors. Develop protocols for distribution. Look into gravel pit acquisition for temporary water storage. Consider new water treatment plant on west end of Billings.	Mid-term	City resources, grants
9.4.1 - Update growth policies and subdivision regulations as needed to consider hazard mitigation.	County, Billings	County and City Planning Depts.	New project for 2019 Plan.	Promote that when policies and regulations are updated that mitigation strategies are implemented for risk reduction.	Ongoing	County and City resources

Notes: BBWA = Billings Bench Water Association; BLM = U.S. Bureau of Land Management; CWPP = Community Wildfire Protection Plan; DEQ = Montana Dept. of Environmental Quality; DES = Disaster and Emergency Services; DHS = U.S. Dept. of Homeland Security; DNRC = Montana Dept. of Natural Resources and Conservation; DPHHS = Montana Dept. of Public Health and Human Services; EOC = Emergency Operations Center; FBI = Federal Bureau of Investigation; FEMA = Federal Emergency Management Agency; FSA = Farm Service Agency; GIS = Geographic Information System; HPID = Huntley Project Irrigation District; ICS = Incident Command System; IT = Information Technology; LEPC = Local Emergency Planning Committee; MATIC = Montana All Threat Incident Center; MDT = Montana Dept. of Transportation; MOU = Memorandum of Understanding; MSU = Montana State University; NFIP = National Flood Insurance Program; NRCS = Natural Resources Conservation Service; NWS = National Weather Service; USACE = U.S. Army Corps of Engineers; WUI = Wildland Urban Interface.

SECTION 6. PLAN MAINTENANCE PROCEDURES

The plan maintenance section details the formal process that will ensure that the Yellowstone County MHMP remains an active and relevant document. The maintenance process includes a schedule for monitoring and evaluating the plan and producing a plan revision every five years. The plan can be revised more frequently than five years if the conditions under which it was developed change significantly (e.g. a major disaster occurs, and projects are accomplished, and/or new projects need to be identified, or funding availability changes). This section also describes how Yellowstone County will monitor the progress of mitigation activities and how the Plan will be incorporated into existing planning mechanisms. The final section describes how the Yellowstone County will integrate public participation throughout the plan maintenance process.

6.1 Monitoring, Evaluating and Updating the Plan

Evaluation of the mitigation plan consists of an assessment of whether the planning process and actions have been effective and whether changes are needed. The review should determine whether the hazards profiled remain relevant and what new or emerging hazards may affect the area, whether capabilities have changed to support mitigation, and whether the Plan goals are being reached. Plan updates typically occur every five years but can take place more frequently, if needed.

6.1.1 2012 PDM Plan

The 2012 PDM Plan was monitored and evaluated several times since it was adopted in 2012. However, Plan evaluation was not put on the LEPC agenda for review at regular intervals. Instead, hazard profiles and mitigation projects were reviewed after hazard events or when funding became available.

6.1.2 2019 MHMP

The 2019 MHMP should be reviewed at meetings of the LEPC. The LEPC membership includes many of the MHMP Planning Team members who will bring insight to the group on plan development. A different hazard profile should be reviewed quarterly by the LEPC. The plan review should consider any new hazards and vulnerabilities as well as document progress made on completing mitigation projects, identify any new mitigation projects, and evaluate mitigation priorities. The review should determine whether a plan update is needed prior to the required five-year update.

The Yellowstone County DES Coordinator will be responsible for ensuring the MHMP review is on the agenda at the LEPC meetings so that applicability of the plan can be evaluated. The DES Coordinator should prepare a status report summarizing the outcome of the plan review and the minutes should be made available to interested stakeholders and kept in a permanent file designated for the next (2024) MHMP update.

The MHMP will also be evaluated and revised following any major disasters, to determine if the recommended actions remain relevant and appropriate. The risk assessment will also be revisited to see if any changes are necessary based on the pattern of disaster damages. This is an opportunity to increase the community's disaster resistance and build a better and stronger community.

Three years after adoption of the MHMP, Yellowstone County DES may decide to apply for a planning grant through FEMA to start the 2024 MHMP update. Upon receipt of funding, the County will solicit bids in accordance with applicable contracting procedures and hire a contractor to assist with the project. The proposed schedule for completion of the plan update is one year from award of a contract, to coincide with the five-year adoption date of the 2019 MHMP update.

The Yellowstone County DES Coordinator will be responsible for the plan update. Before the end of the five-year period, the updated plan will be submitted to FEMA for approval. When concurrence is received that the updated plan complies with FEMA requirements, it will be submitted to the Yellowstone County Board of Commissioners, the Billings and Laurel City Councils, and the Broadview Town Council for adoption. The DES Coordinator will send an e-mail to individuals and organizations on the stakeholder list to inform them that the updated plan is available on the county website.

6.2 Monitoring Progress of Mitigation Activities

The process for monitoring and evaluating mitigation projects is the responsibility of the LEPC, an organization comprised of local officials from Yellowstone County, Billings, Laurel, and Broadview, emergency response entities, local businesses, and non-profit organizations who meet on a regular basis. The following sections describe monitoring actions over the past five years and an updated strategy going forward.

6.2.1 2012 PDM Plan

Since development of the 2012 PDM Plan, several mitigation projects were completed in Yellowstone County (see *Section 5.1*) while a number of other projects are on-going and will continue through the next planning period. The LEPC discusses hazard mitigation, as needed, and prioritizes projects based on the funding that is available and severity of hazard events that have occurred in the county.

Yellowstone County DES has monitored completion of most mitigation projects; however, the 2012 PDM Plan did not outline a specific process to track the initiation, status, and completion of mitigation activities. Each department monitors completion of mitigation projects under their purview: i.e., the Yellowstone County Rural Fire Council monitors wildfire projects; the County and City Public Works departments monitor drainage projects within their jurisdiction; and, Yellowstone County DES monitors severe weather projects.

6.2.2 2019 MHMP

Going forward, the LEPC will review the mitigation goals, objectives, and actions to ensure progress is being made. They will evaluate the feasibility of the mitigation projects, monitor resources, budgets, and schedules, and document project completion, at a minimum, on an annual basis. This group will provide a venue for reporting and accountability. Most MHMP Planning Team members are part of the LEPC.

A mitigation action plan has been developed for each project (**Appendix C-3**). Each agency or department listed as a "responsible entity" should receive a copy of the mitigation strategy assigned to them and record progress and developments towards implementation. During the LEPC meetings

where project status is reviewed, each agency/dept. will provide an update of projects under their purview and can coordinate with the LEPC on challenges, success and opportunities. Minutes should be prepared from these meetings and should be distributed to interested stakeholders as well as kept in a permanent file for the next MHMP update (2024).

- Any grant applications filed on behalf of any of the participating jurisdictions;
- Hazard events and losses occurring in their jurisdiction;
- Progress on the implementation of mitigation actions, including efforts to obtain outside funding;
- Obstacles or impediments to implementation of actions;
- Additional mitigation actions believed to be appropriate and feasible; and
- Public and stakeholder input.

Mitigation project evaluations will assess whether:

- Goals and objectives address current and expected conditions.
- The nature or magnitude of the risks has changed.
- Current resources are appropriate for implementing the MHMP and if different or additional resources are now available.
- Actions were cost effective.
- Schedules and budgets are feasible.
- Implementation problems, such as technical, political, legal or coordination issues with other agencies are presents.
- Outcomes have occurred as expected.
- New agencies/departments/staff should be included.

Individual projects will be monitored by the department implementing the project or the grant. Generally, HMGP and PDMC projects, and any severe weather and All Hazard projects will be monitored by Yellowstone County DES. Any National Fire Plan projects or Community Assessment Agreements will be monitored by the Yellowstone County Rural Fire Council, BLM and/or DNRC. Flooding, and ditch and drain projects will be monitored by the County and City Public Works departments. Rock fall projects will be monitoring by the Billings Parks Dept. Disease projects will be monitored by RiverStone Health. Terrorism, violence and civil unrest projects will be monitored by law enforcement. And, cyber security projects will be monitored by the County and City IT departments. Each organization will track projects through a central database and issue quarterly reports to federal agencies.

The LEPC will continually observe the processes for implementation of the mitigation projects. By monitoring project implementation, the LEPC will then be able to evaluate them at the time of the plan update and determine if any changes are needed.

Yellowstone County may want to consider measuring their mitigation success by participating in the STAR Community Rating System. Local leaders can use the STAR Community System to assess how sustainable they are, set goals for moving ahead and measure progress along the way. To get started, go to http://starcommunities.org/get-started.

6.3 Implementation through Existing Programs

Yellowstone County will have the opportunity to implement hazard mitigation projects through existing programs and procedures through plan revisions or amendments. The MHMP will be incorporated into the plans, regulations and ordinances as they are updated in the future or when new plans are developed. **Table 6.3-1** presents a summary of existing plans and ordinances and how integration of mitigation projects will occur.

A summary of how the MHMP can be integrated into the legal framework is presented below:

- Partner with other organizations and agencies with similar goals to promote building codes that are more disaster resistant on the State level.
- Develop incentives for local governments, citizens, and businesses to pursue hazard mitigation projects.
- Allocate County resources and assistance for mitigation projects.
- Partner with other organizations and agencies in eastern Montana to support hazard mitigation activities.

Table 6.3-1. Implementation of Mitigation into Existing Plans and Codes

Type	Name	Integration Technique
Plans		
Emergency Operations	Yellowstone County Emergency Operations Plan	Integrated by reference in MHMP.
Growth Policies	Yellowstone County Growth Policy, 2008	Integration of mitigation strategies will occur when growth policies are revised.
	City of Billings Growth Policy, 2016	
	City of Laurel Growth Management Plan, 2013	
	Lockwood Growth Policy, 2016	
	Billings Area Neighborhood Plans	
Wildfire Mitigation	Yellowstone County Community Wildfire Protection Plan, 2006	Wildfire mitigation projects will be incorporated when plan is revised.
Flooding	Yellowstone County Flood Insurance Study, 2013	Integration of mitigation plan will occur, as appropriate, when study is revised.
Codes, Regulations & Ordinances		
Zoning	City of Billings Zoning Regulations	Mitigation plan will be incorporated into revisions of zoning ordinances.
	City of Laurel Zoning Regulations	
	Town of Broadview Zoning Regulations	
Subdivisions	Yellowstone County Subdivision Regulations	Mitigation plan will be incorporated into revisions of subdivision regulations.
	City of Billings Subdivision Regulations	
	City of Laurel Subdivision Regulations	
Floodplain	Yellowstone County Floodplain Regulations	Mitigation plan will be incorporated into revisions of floodplain regulations.
	City of Billings Floodplain Regulations	
	City of Laurel Floodplain Regulations	

Yellowstone County, Billings, Laurel and the unincorporated community of Lockwood use a growth policy to guide development. Typically, a growth policy will address hazards; specifically, that life and property be protected from natural disasters and man-caused hazards. Mitigation goals in the MHMP will be recommended for incorporation into future revisions of these growth policies to ensure that high-hazard areas are being considered for low risk uses.

To ensure that the requirements of the MHMP are incorporated into other planning mechanisms and remain an on-going concern in Yellowstone County, job descriptions of various staff will be enhanced to include a mitigation component. The job descriptions of City-County Planner, Floodplain Administrator, and Public Works engineer will be augmented to include involvement in the LEPC. Participation in this group will provide an awareness of new and on-going mitigation initiatives for the purpose that they be integrated into plans, codes and regulations during revision. The job description of the DES Coordinator will include responsibilities for implementing outreach activities for risk reduction in the county, coordinating with the Board of County Commissioners to secure funding for mitigation projects, ensure mitigation projects are implemented, and updating the MHMP. The DES Coordinator will also be responsible for maintaining permanent master file for the MHMP planning process, which will include damage figures from hazard events, records of mitigation projects, and notes/minutes from relevant meetings.

Meetings of the Board of County Commissioners and City/Town Councils will provide an opportunity for Yellowstone County DES to report back on the progress made on the integration of mitigation planning elements into planning documents and procedures for the County and Cities/Town.

6.4 Continued Public Involvement

Yellowstone County is dedicated to involving the public directly in review and updates of the MHMP. The public will have many opportunities to provide feedback about the plan. Hard copies of the plan will be kept at appropriate county and city offices. An electronic copy of the plan will be available on the Yellowstone County website. The existence and location of plan hard copies will be publicized on the county website. *Section 2.0* includes the address and the phone number of Yellowstone County DES who will be responsible for keeping track of public comments on the plan.

The public will be invited to meetings of the LEPC when the MHMP is discussed. The meetings will provide the public a forum for which they can express concerns, opinions, or ideas about the plan. The DES Coordinator will be responsible for using county resources to publicize the public meetings and maintain public involvement through the newspapers, radio and Internet.

The MHMP Planning Team will continually observe the processes for public outreach. By monitoring these activities, the Planning Team will then be able to evaluate them at the time of the plan update and determine if any changes are needed.

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CITY OF BILLINGS, MONTANA
RESOLUTION ADOPTING
YELLOWSTONE COUNTY MULTI-HAZARD MITIGATION PLAN
2019 UPDATE
Resolution No. _____

WHEREAS, in October of 2000 the President of the United States signed into law the "Disaster Mitigation Act of 2000" (PL 106-390) to amend the "Robert T. Stafford Disaster Relief and Emergency Act of 1988" which among other provisions requires local governments to adopt a Multi-Hazard Mitigation Plan in order to be eligible for hazard mitigation funding;

WHEREAS, the City of Billings, Montana has worked closely with Yellowstone County Disaster and Emergency Services to update a county-wide Multi-Hazard Mitigation Plan that will serve the needs of Yellowstone County;

WHEREAS, the Yellowstone County Disaster and Emergency Services (YCDES) Coordinator is also the City of Billings DES Coordinator.

WHEREAS, the City of Billings supports the 2019 Update to the Yellowstone County Multi-Hazard Mitigation Plan as a logical means toward protecting people and property from the potential devastating effects of natural and man-made hazards;

NOW, THEREFORE, BE IT RESOLVED that the Billings City Council adopt, by way of this resolution, the "Yellowstone County, Montana Multi-Hazard Mitigation Plan – 2019 Update" as approved by the Montana Disaster and Emergency Services and the Federal Emergency Management Agency.

PASSED and APPROVED by the City of Billings this _____day of _____, 2019.

CITY OF BILLINGS

_____
Bill Cole, Mayor

ATTEST:

_____
Denise R. Bohlman, City Clerk

Multi-Hazard Mitigation Plan

Background and Authority:

In response to requirements of the Disaster Mitigation Act of 2000 (DMA 2000), Yellowstone County, the cities of Billings and Laurel, and the Town of Broadview have developed this Multi-Jurisdictional Multi-Hazard Mitigation Plan (MHMP).

DMA 2000 amends the Stafford Act and is designed to improve planning for, response to, and recovery from, disasters by requiring state and local entities to implement hazard mitigation planning and develop MHMPs.

The Federal Emergency Management Agency (FEMA) has issued guidelines for development of MHMPs. The Montana Disaster and Emergency Services (DES) supports plan development for jurisdictions in the State of Montana.

The 2019 update to the Yellowstone County MHMP has been developed pursuant to the requirements in the Interim Final Rule for hazard mitigation planning and the guidance in the State and Local Plan Interim Criteria under DMA 2000. The Plan also meets guidance developed by FEMA in March of 2013 for Local Mitigation Planning.

This Plan does not include the Crow Indian Reservation, located in the south portion of Yellowstone County, which is a sovereign nation with its own hazard mitigation plan.

Stakeholders from Billings:

Stakeholders from the City of Billings included: the Mayor, City Manager, City Council members, City Attorney, City Clerk, Fire Marshall, Floodplain Administrator, and representatives from the Building Dept., Planning Dept., Water and Wastewater Dept., Police Dept., Fire Dept., Public Works Dept., Regional Haz-Mat Team, School District, 911 Call Center, and Billings-Logan International Airport. These entities participated in the MHMP update by either providing data, attending Planning Team and/or public meetings or reviewing the draft plan.

Scope and Plan Organization:

The process followed to prepare the 2019 Yellowstone County MHMP update included the following:

- Review and prioritize disaster events that are most probable and destructive,
- Identify and update critical facilities,
- Identify and update areas within the community that are most vulnerable,
- Identify and update goals for reducing the effects of a disaster event,
- Identify and update projects to be implemented for each goal,
- Identify and update procedures for monitoring progress and updating the MHMP,
- Review the draft MHMP, and
- Adopt the updated MHMP.

The MHMP is organized into sections that describe the planning process (Section 2), community profile (Section 3), risk assessment (Section 4), mitigation strategies (Section 5) and plan maintenance (Section 6). Appendices containing supporting information are included at the end of the plan.

DES office is the DES for Billings as well as Yellowstone County:

- 72% of growth for Yellowstone County is within Billings
- Over $1B in protected infrastructure in Billings (just from flooding events)
- Over 75% of all critical infrastructure located within Billings
- 205 out of 304 (67%) of all identified critical facilities within the county are in Billings.
- Approximately 160,000 total population with 110,000 in Billings (69%)
    - On any given day there is between 110,000 and 200,000 people in Billings.

The mission of Yellowstone County DES is to save lives, prevent injury, and protect property and the environment by taking reasonable and affordable measures to mitigate, prepare for, respond to and recover from disasters. The Yellowstone County DES Coordinator is responsible for the planning, coordination, and implementation of all emergency management and Homeland Security related activities for the City of Billings, City of Laurel, Town of Broadview, and Yellowstone County. Other responsibilities include coordination of activities for the county's Emergency Operations Center. The EOC, when activated, is a central location where representatives of local government and

private sector agencies convene during disaster situations to make decisions, set priorities and coordinate resources for response and recovery. These efforts are designed to enhance the capacity of the local government to plan for, respond to, and mitigate the consequences of threats and disasters using an all-hazard framework.

Regular City Council Meeting

Meeting Date: 08/12/2019

TITLE: Public Hearing and Resolution for FY19 Budget Amendments

PRESENTED BY: Andy Zoeller, Finance Director

Department: City Hall Administration

Presentation: Yes

PROBLEM/ISSUE STATEMENT

Montana Code allows local governments to amend their fiscal year budgets by using the same method as used for the original budget adoption: public notice, public hearing and Council adopting a resolution. The following amendments are proposed for FY 2019:

1.Sidewalk Hazard Repair/Gas Tax
Public Works is requesting budget authority be established in the FY 2019 budget for sidewalk hazard repair projects. These projects were previously budgeted for in the Sidewalk and Curb District Fund and funded by the sale of bonds. The costs were then assessed to the property owners that benefited from the improvements. This new Sidewalk Hazard Fund is to fund the repair of sidewalk deficiencies including tripping hazards. Repairs that are included in this program can either be fixed with a low cost grinding option or are not major repairs and therefore, can be assessed to the property owners over less time, saving the property owners bond sale costs and providing a more timely method to fix sidewalk hazards. Per Article 13-1200 of the Billings Municipal City Code, the Sidewalk Hazard Fund is funded by the Gas Tax Fund until the costs are paid back by the property owners. The Gas Tax fund has sufficient cash balance to provide the temporary funding needed for these projects.

2.Storm Sewer
Public Works is requesting budget authority be increased in the FY 2019 budget for the cost of three storm drain projects. The Silverwood Culvert Replacement project is an emergency repair that needed repaired in June. Also, the unexpected City/County Drain and Cardiff Storm projects utilized all of the storm Fund Budget for FY 2019, but Public Works proceeded with the 38th & Olympic and Sam Snead Trail storm drain projects because there was significant need for these projects and they have been on Public Works storm priority list for several years. The Storm Sewer Fund has sufficient cash for these projects.

3. Street & Traffic
Public Works is requesting budget authority be increased in the FY 2019 budget for cost overruns incurred last winter for overtime and supplies needed for snow and ice operations. The snow and ice maintenance budget incurred an overrun of $400,000 as was discussed during the Public Works budget presentation. However, staff was able to mitigate some of the overrun by deferring other maintenance items and is requesting a budget amendment for the Street/Traffic Fund in the amount of $135,000. The Street and Traffic Fund has sufficient cash in its reserves to fund these expenditures.

4. Legal Department - General Fund
The Legal Department is requesting budget authority be increased in the FY 2019 budget for the

cost of outside counsel. In FY19, a total of $436,000 was spent hiring outside counsel to defend non-MMIA cases against the city. The Council has previously advised of the potential for additional funds to defend certain non-MMIA cases and directed staff to proceed. Fund balance is available to cover these costs.

5. Police Department - Public Safety Fund
The Police Department is requesting budget authority be increased in the FY 2019 budget for the cost of Police overtime. Total actual overtime costs in FY19 was about $800,000. There was only $308,916 budgeted for FY19. Some of the large events that occurred which required the Police Department to incur significant amounts of overtime were dignitary visits, minimum staffing requirements, and required specialized training. Fund balance is available to cover these costs.

Additional information on each project can be found in the attached Exhibit A.

ALTERNATIVES ANALYZED

The Council will conduct a public hearing and may:

- Approve the requested budget amendments; or
- Not approve the requested budget amendments, which would place the City in violation of Montana law.

FINANCIAL IMPACT

The requested budget amendments will be funded by reserves or new revenues, as described in the budget resolution exhibit.

RECOMMENDATION

Staff recommends that the City Council conduct a public hearing and approve the resolution approving and adopting the budget amendments for Fiscal Year 2019.

APPROVED BY CITY ADMINISTRATOR

Attachments

Resolution FY19 BA
Exhibit A

RESOLUTION 19-

A RESOLUTION ADOPTING **FISCAL YEAR 2019** ADJUSTMENTS TO APPROPRIATIONS PURSUANT TO M.C.A. 7-6-4006 AS AMENDED, AND PROVIDING TRANSFERS AND REVISIONS WITHIN THE GENERAL CLASS OF SALARIES AND WAGES, MAINTENANCE AND SUPPORT AND CAPITAL OUTLAY.

WHEREAS, M.C.A. 7-6-4006 provides that the City Council, upon proper resolution, adopted by said Council at a regular meeting and entered into its Minutes, may transfer or revise appropriations within the general class of salaries and wages, maintenance and support, and capital outlay, and

WHEREAS, based upon a Budget Review **(FY 2019**), it is necessary to alter and change said appropriations.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF BILLINGS, MONTANA:

That the attached transfers or revisions are hereby adopted.

(SEE EXHIBIT A)

PASSED AND APPROVED by the City Council, this 12th day of August, 2019

THE CITY OF BILLINGS:

BY:_____
William A. Cole, MAYOR

ATTEST:

BY:_____
Denise R. Bohlman, CITY CLERK

EXHIBIT A

	Revenue	Expenditure	
2080 - Sidewalk Hazard Fund and 2050 - Gas Tax			
Public Works is requesting budget authority be established in the FY 2019 budget for sidewalk hazard repair projects. These projects were previously budgeted for in the Sidewalk and Curb District Fund and funded by the sale of bonds. The costs were then assessed to the property owners that benefitted from the improvements. This new Sidewalk Hazard Fund is to fund the repair of sidewalk deficiencies including tripping hazards. Repairs that are included in this program can either be fixed with a low cost grinding option or are not major repairs and therefore, can be assessed to the property owners over less time, saving the property owners bond sale costs and providing a more timely method to fix sidewalk hazards. Per Article 13-1200 of the Billings Municipal City Code, the Sidewalk Hazard Fund is funded by the Gas Tax Fund until the costs are paid back by the property owners. Public Works has sufficient cash in its Gas Tax fund to temporarily fund these projects.			
Sidewalk Hazard Fund	91,500		Transfer from Gas Tax Fund
Gas Tax Fund		91,500	Transfer to Sidewalk Hazard Fund
Sidewalk Hazard Fund		91,500	Maintenance Services
8400 - Storm Sewer			
Public Works is requesting budget authority be increased in the FY 2019 budget for the cost of three storm drain projects. The Silverwood Culvert Replacement project is an emergency repair that needed repaired in June. Also, the unexpected City/County Drain and Cardiff Storm projects utilized all of the storm Fund Budget for FY 2019, but Public Works proceeded with the 38th & Olympic and Sam Snead Trail storm drain projects because there was significant need for these projects and they have been on Public Works storm priority list for several years. Public Works has sufficient cash in its Storm Sewer fund for these projects.			
Storm Sewer Fund		218,000	Silverwood Culvert Replacement, 38th & Olympic, and Sam Snead Trail
2110 - Street/Traffic			
Public Works is requesting budget authority be increased in the FY 2019 budget for cost overruns incurred last winter for overtime and supplies needed for snow and ice operations. The snow and ice maintenance budget incurred an overrun of $400,000 as was discussed during the Public Works budget presentation. However, staff was able to mitigate some of the overrun by deferring other maintenance items and is requesting a budget amendment for the Street/Traffic Fund in the amount of $135,000. Public Works had sufficient cash in its reserves to fund these costs.			
Street & Traffic Fund		135,000	Teamster Overtime, Gravel & Sand, Ice Slicer
0100- Legal Department			
The Legal Department is requesting budget authority be increased in the FY 2019 budget for the cost of outside counsel. In FY19, a total of $436,000 was spent hiring outside counsel to defend non-MMIA cases against the city. The Council has previously advised of the potential for additional funds to defend certain non-MMIA cases and directed staff to proceed. Fund balance is available to cover these costs.			
Legal Department		305,000	Outside Counsel Costs
1500 - Police Department			
The Police Department is requesting budget authority be increased in the FY 2019 budget for the cost of Police overtime. Total actual overtime costs in FY19 was about $800,000. There was only $308,916 budgeted for FY19. Some of the large events that occurred which required the Police Department to incur significant amounts of overtime were dignitary visits, minimum staffing requirements, and required specialized training. Fund balance is available to cover these costs.			
Police Department		195,000	Police Personal Services

Regular **4.**

Regular City Council Meeting

Meeting Date: 08/12/2019

TITLE: Public Hearing for Vacating a Portion of Bonita Circle

PRESENTED BY: David Mumford, Public Works Director

Department: Public Works

Presentation: Yes

PROBLEM/ISSUE STATEMENT

The developer of High Sierra Subdivision 1st Filing is replatting a portion of High Sierra Subdivision 1st Filing. The developer is proposing to vacate Bonita Circle between Sierra Grande Boulevard and El Rancho Drive. The developer will then re-dedicate an equivalent area further downstream to develop as a storm water pond. The intent of this change is to reduce the effects of stormwater at the intersection of Sierra Grande Boulevard and Morocco Drive. With the plan of re-dedicating an equivalent area, the developer is requesting that the vacation of Bonita Circle be at no cost. The developer is proposing multiple exempt plats eliminating the street and re-dedicating an area for stormwater conditioned on approval of vacation of the right of way. Attached is an exhibit showing the proposed vacation along with the new area to be dedicated. Bonita Circle between Sierra Grande Boulevard and El Rancho Drive is not necessary to construct to circulate traffic in the neighborhood as there are many other streets to meet traffic demands and circulation requirements.

ALTERNATIVES ANALYZED

The Council may:

- After holding a public hearing, approve the vacation of Bonita Circle between Sierra Grande Boulevard and El Rancho Drive; or
- After holding a public hearing, do not approve of the vacation. If the right of way is not vacated, the developer will be required to construct Bonita Circle and find a new area for storm water detention.

FINANCIAL IMPACT

Since the right of way proposed to be vacated has not been constructed and new right of way will be dedicated to replace the vacated area, the developers are requesting there is no cost for the vacation.

RECOMMENDATION

Staff recommends that the City Council conduct the advertised public hearing and approve the vacation of a portion of Bonita Circle between Sierra Grande Boulevard and El Rancho Drive.

APPROVED BY CITY ADMINISTRATOR

Attachments

Resolution to Vacate
Exhibit

RESOLUTION NO. 19-_____

A RESOLUTION OF THE CITY OF BILLINGS, MONTANA, DISCONTINUING AND VACATING **Bonita Circle between Sierra Grande Boulevard and El Rancho Drive.**

WHEREAS, a proper petition was filed with the City Council of the City of Billings, Montana, as per Section 22-601 BMCC, requesting discontinuance and vacation of **Bonita Circle between Sierra Grande Boulevard and El Rancho Drive** as described hereinafter; and

WHEREAS, a public hearing was properly noticed and held as required by law.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF BILLINGS, MONTANA, AS FOLLOWS:

1. DISCONTINUANCE AND VACATION. Pursuant to Sections 7-14-4114 and 7-14-4115, M.C.A., **Bonita Circle between Sierra Grande Boulevard and El Rancho Drive** more particularly described as follows:

Right-of-way vacation within High Sierra Subdivision 1st Filing, according to the official plat on file in the office of the Clerk and Recorder of Yellowstone County, Montana, under Document No. 1372731, said vacation being more particularly described as follows, to-wit:

Bonita Circle from Sierra Grande Boulevard to El Rancho Drive in High Sierra Subdivision 1st Filing as shown on the Exhibit attached.

Containing 14,619 square feet, more or less being more described on the Right-of-Way Exhibit, attached.

Is hereby discontinued, abandoned and vacated and shall revert to adjacent property owners of High Sierra Subdivision.

2. PUBLIC INTEREST. The discontinuance, vacation and abandonment of the above described **Bonita Circle between Sierra Grande Boulevard and El Rancho Drive** is in the best interest of the public and can be done without any public detriment.

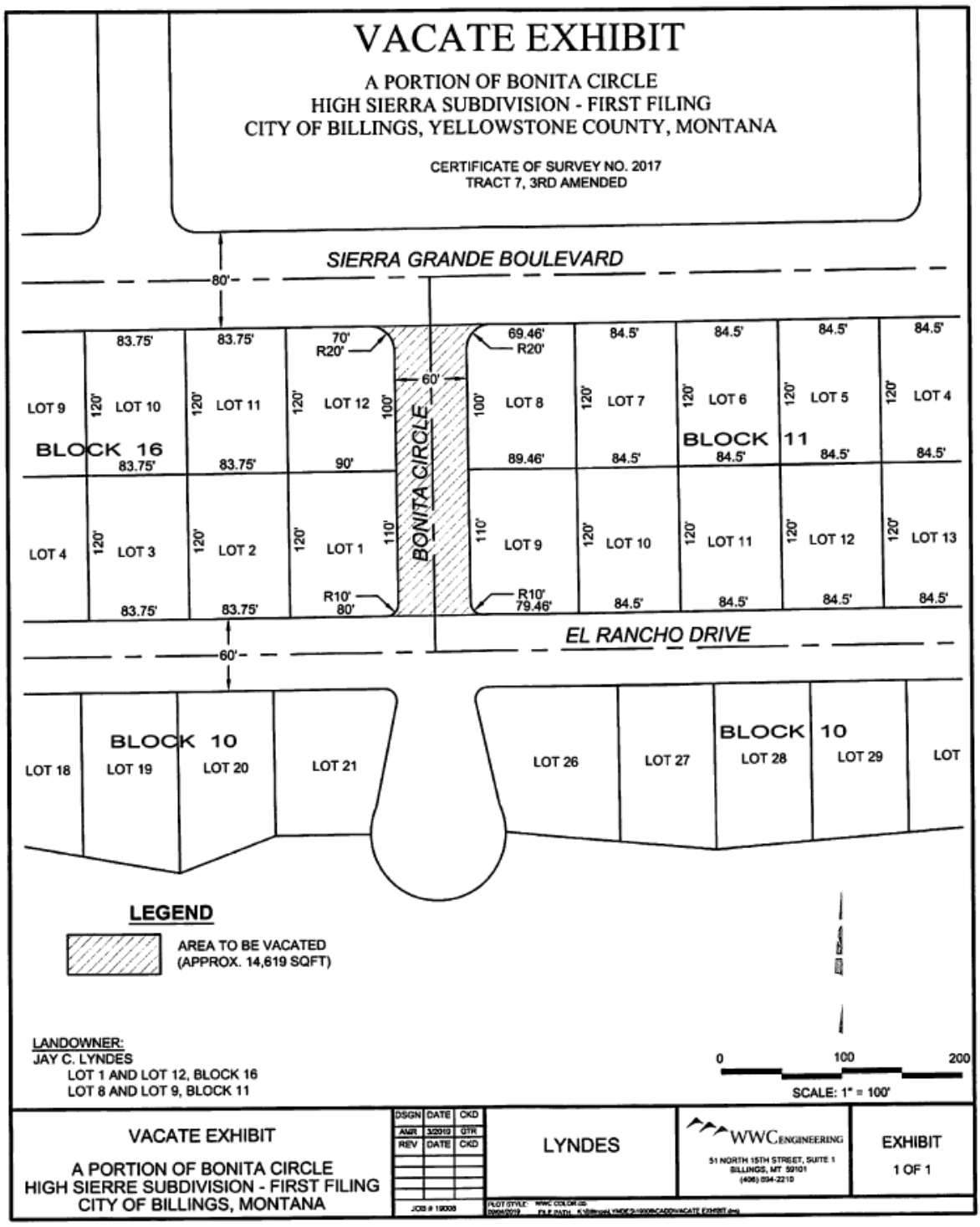
PASSED by the City Council and APPROVED this 12th day of August 2019.

THE CITY OF BILLINGS:

BY:_____
William A. Cole MAYOR

ATTEST:

BY:_____
Denise R. Bohlman CITY CLERK


VACATE EXHIBIT
A PORTION OF BONITA CIRCLE
HIGH SIERRA SUBDIVISION - FIRST FILING
CITY OF BILLINGS, YELLOWSTONE COUNTY, MONTANA
CERTIFICATE OF SURVEY NO. 2017
TRACT 7, 3RD AMENDED
SIERRA GRANDE BOULEVARD
80'
BONITA CIRCLE
60'
EL RANCHO DRIVE
60'
BLOCK 16
BLOCK 11
BLOCK 10
BLOCK 10
LOT 9
LOT 10
LOT 11
LOT 12
LOT 8
LOT 7
LOT 6
LOT 5
LOT 4
LOT 4
LOT 3
LOT 2
LOT 1
LOT 9
LOT 10
LOT 11
LOT 12
LOT 13
LOT 18
LOT 19
LOT 20
LOT 21
LOT 26
LOT 27
LOT 28
LOT 29
LOT
83.75'
70'
R20'
69.46'
R20'
84.5'
89.46'
90'
80'
R10'
79.46'
R10'
120'
110'
100'
LEGEND
AREA TO BE VACATED
(APPROX. 14,619 SQFT)
LANDOWNER:
JAY C. LYNDES
LOT 1 AND LOT 12, BLOCK 16
LOT 8 AND LOT 9, BLOCK 11
0
100
200
SCALE: 1" = 100'
VACATE EXHIBIT
A PORTION OF BONITA CIRCLE
HIGH SIERRE SUBDIVISION - FIRST FILING
CITY OF BILLINGS, MONTANA
DSGN DATE CKD
AMR 3/2019 GTK
REV DATE CKD
JOB # 19008
LYNDES
WWC ENGINEERING
51 NORTH 15TH STREET, SUITE 1
BILLINGS, MT 59101
(406) 894-2210
EXHIBIT
1 OF 1

STORMWATER BASIN

MATADOR AVE

CORTEZ AVE

LOTS SHIFTED WEST
TO AREA OF VACATED
BONITA CIRCLE

BONITA CIRCLE VACATED AREA

SIERRA GRANDA BLVD

FANTAN ST

EL RANCHO DR

REESTABLISHED STORMWATER AREA
MATCHING BONITA CIRCLE AREA

MOROCCO DR

TIERRA DR

SIESTA AVE

ADOBE DR

SOLITA DR

0 125 250

SCALE: 1" = 250'

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WWC ENGINEERING
51 N 15TH STREET, SUITE 1
BILLINGS, MT. 59101
(406) 894-2210

JAY LYNDES

550 SOUTH 24TH STREET
BILLINGS, MT 59102

DSGN	DATE	CKD
BMX	3/XX/2019	BXR
REV	DATE	CKD

JOB # 20XX06.01.XX

PLOT STYLE: WWC COLOR.ctb
PLOT DATE: 08/07/2019
FILE PATH: K:\Billings\JYNDES\1900\STORMWATERCOUNCIL_STORM_EXHIBIT.dwg

EL RANCHO STORMWATER MITIGATION

PRELIMINARY STORM WATER PLAN

SHEET NO.