City of Livingston Planning Board Agenda

Date: September 21, 2022

A meeting of the City Planning Board is scheduled for September 21, 2022, from 5:30-7:00 p.m. The meeting will be held via Zoom.

Join Zoom Meeting:
https://us02web.zoom.us/j/82374168215?pwd=VEREOUhXekxycDlkVWUvMW1oK29Hdz09

Meeting ID: 823 7416 8215
Passcode: 127453
Call in: (669) 900-6833

Roll Call

Approval of Minutes:

- June 2022, August 2022
- No July meeting

Public Comments (state your full name and physical address prior to speaking)

New Business:

- Continued Public Hearing – Mountain View Subdivision

Old Business:

Administrative Comments:

- Public Works Update
- Planning Update
- Board Comments
- Next Meeting: October 19, 2022

Meeting Adjournment

MOUNTAIN VIEW
MAJOR SUBDIVISION
PRELIMINARY PLAT APPLICATION
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B. Preliminary Sewer & Water Report
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D. Traffic Trip Generation Analysis
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G. Private Service Providers Review

SANDERSON STEWART

Billings
Bozeman
Denver
Fort Collins

July 7, 2022

Mr. Jim Woodhull
Planning Director
City of Livingston
220 E. Park Street
Livingston, MT 59047

Reference: Mountain View Subdivision
Preliminary Plat Submittal
Project No. 18005.05

Dear Jim:

Please find attached a complete Preliminary Plat application for the Mountain View Subdivision. The proposed subdivision includes 39 lots, including two open space lots, and public right-of-way for subdivision streets and utilities.

We are submitting three printed copies and digital copies of the preliminary plat application for your review. The following documentation is included in the application:

1. Cover Letter
2. Completed Preliminary Plat Application
3. Checklist of Submittal Materials
4. Application Review Fee Estimate
5. Application Narrative
6. Vicinity Map
7. Overall Development Plan
8. Active Transportation Plan
9. Site Plan Set
10. Preliminary Plat
11. Stormwater Overview
12. Water & Sewer Overview
13. Subdivision Improvements
14. Traffic Trip Generation Analysis
15. Summary of Probable Impacts
16. Wetlands Report
17. Public Agency Review
18. Private Service Providers Review

The review and application fees will be provided once the total amount is confirmed with you. Please let me know if you have any questions or need additional information, please feel free to contact me at (406) 922-4311 or cnaumann@sandersonstewart.com.

Sincerely,

Chris Naumann
Associate | Senior Planner
Sanderson Stewart
106 East Babcock Street Suite L1
Bozeman MT 59715
cnaumann@sandersonstewart.com
406-922-4311 (d)
406-570-5758 (m)

City of Livingston
Department of Planning
220 E. Park St.
Livingston, MT 59047
(406)222-4903
planning@livingstonmontana.org

City of Livingston Subdivision Preliminary Plat Instructions

Subdivision review is required to divide any parcel of land within the City of Livingston that does not meet the criteria for a subdivision exemption as listed in 76-3-2 MCA. Subdivisions require a three-step application process prior to final approval:

- Pre-Application
- Preliminary Plat Application
- Final Plat Application

Preliminary Plats require a public hearing before the Planning Board for a recommendation to the City Commission, and are approved or denied by the City Commission. All subdivision applications are evaluated by the Planning Board and City Commission based upon the following criteria listed in Section III.B.6 of the Subdivision Regulations for major subdivisions or Section IV.B.6 for minor subdivisions:

- Provides easements for the location and installation of any planned utilities.
- Provides legal and physical access to each parcel within the subdivision and the notation of that access on the applicable plat and any instrument transferring the parcel.
- Assures that all required public improvements will be installed before final plat approval, or that their installation after final plat approval will be guaranteed.
- Complies with the requirements of 76-3-504 MCA, regarding the disclosure and disposition of water rights.
- Complies with the Subdivision Regulations.
- Complies with the applicable Zoning Regulations.
- Complies with the Montana Subdivision and Platting Act.

The Preliminary Application shall be submitted to the Planning Department. The Planning Department may forward the application to local, state, and federal agencies as necessary to ensure a comprehensive review of the project. **It is required that you submit and receive an approved Subdivision Pre-Application prior to submitting a Preliminary Plat Application.**

Submittal Requirements (listed in Section III.B.1 of the Subdivision Regulations for major subdivisions or Section IV.B.1 for minor subdivisions):

☑ Two (2) copies of the Completed Application Form.
☑ Three (3) copies of the Preliminary Plat, which:

- Contains the required information for preliminary plats..
- Conforms to the Design and Improvement Standards in Section VI of the Subdivision Regulations.
- Conforms to the requirements of the Zoning Regulation.

- Conforms to the requirements of the Public Works Design Standards and Specifications Policy.

☑ A summary of probable impacts of the Subdivision.

☑ Proof that the subdivider has submitted for review copies of the subdivision application and environmental assessment, if applicable, to the public utilities and agencies of local, state, and federal government identified during the pre-application meeting or subsequently identified as having a substantial interest in the proposed subdivision.

☑ Additional relevant and reasonable information as identified by the Development Review Committee during the pre-application meeting:

☑ The Preliminary Plat Application Review Fee.

All documents other than the preliminary plat shall be submitted on either 8 ½" x 11" or 11" x 17" paper. Additionally, digital copies of the submittal in PDF file format are required.

City of Livingston
Department of Planning
220 E. Park St.
Livingston, MT 59047
(406)222-4903
planning@livingstonmontana.org

City of Livingston Subdivision Preliminary Plat Application

1. **Property Owner Name:** Livingston West LLC and PrintingForLess.com INC

2. **Location of Property**

   General Location: East adjacent of the I-90 and Highway 10 interchange

   Address: Antelope Drive and PFL Way

   Subdivision: _____ Lot: _____ Block: _____

   Zoning District: HC

3. **Contact Information**

   Property Owner

   Livingston West LLC (Andrew Field, Manager)

   Home Address: Box 500, Emigrant, MT 59027

   Phone Number: (406) 223-7077

   Email Address: asfield@gmail.com

   Primary Contact/ Applicant

   Name: Chris Naumann, Sanderson Stewart

   Address: 106 E Babcock St Suite L1, Bozeman, MT 59715

   Phone Number: (406) 922-4311

   Email Address: cnaumann@sandersonstewart.com

   Secondary Contact

   Name: Richard Smith

   Address: _____

   Phone Number: (406) 223-1148

   Email Address: resmith2011@rj-development.net

4. Project Information

Type of Subdivision: ☒ Major ☐ Subsequent Minor ☐ Minor

Proposed Subdivision Name: Mountain View

Brief Description of Project: A Highway Commercial subdivision of approximately 64 acres including 39 lots, public right-of-way, and open space.

Proposed Use(s): Primarily commercial, potentially some residential

Number of Lots: 39 Number of Phases: 3

I hereby certify that the information included in this application is true and accurate.

Applicant's Signature Date

APPENDIX B

LIST OF SUBMITTAL MATERIAL
(Based on City of Livingston Subdivision Regulations)

PRELIMINARY PLAT

The following materials shall be submitted with all applications for Preliminary Plat approval:

	Attached (Check)
1. Three (3) copies of the preliminary plat in 24" x 36" format.	☑
2. Eight (8) copies of the preliminary plat in 11" x 17" format.	☑
3. The required review fee.	☑
4. A vicinity sketch showing conditions on adjacent land including:	
a. Approximate locations, size and depth of existing or proposed sanitary and storm sewers, water mains, fire hydrants, gas, electric, telephone lines and streetlights.	☑
b. Ownership of lands immediately adjacent the subdivision and all public and private streets leading to the subdivision.	☑
c. Locations of buildings, structures, power lines and other improvements and nearby land uses.	☑
d. The existing zoning of the subdivision and of adjacent lands within 500 feet.	☑
5. A complete grading and drainage plan designed to handle runoff from a 10 year, 6 hour storm and containing the following:	
a. Location and details, accurately dimensioned, of all existing and proposed drainage structures to include courses, elevations, grades and cross sections of streets, bridges, ditches, culverts, retention areas and other drainage improvement.	☑

a. Ground contours with intervals of 2 feet where the average slope is under 10% and 5 feet where average slope is 10% or greater. ☑
b. Information describing the ultimate destinations of storm water from the subdivision and the effect of the runoff on down-slope drainage structures. ☑
c. Describe construction procedures, slope protection and reseeding methods to minimize erosion. ☑

6. A list of the proposed subdivision improvements shall be submitted and shall include the following items:
   a. Provide design specifications for all streets and alleys. Include information on all drainage structures, street signs, sidewalks, and street lights. ☑
   b. Indicate the solid waste collection and disposal facilities proposed for the subdivision. ☑
   c. Show fire hydrant locations and spacing. ☑
   d. Describe all utilities to be installed and which entities will be providing the services. ☑
   e. Indicate parkland to be dedicated or amount of cash-in-lieu of land to be donated, if applicable. ☑
   f. Indicate how mail delivery will be handled within the subdivision. ☑

7. Overall Development Plan: When a tract of land is to be subdivided in phases, the subdivider must provide an overall development plan indicating the intent for the entire development. The preliminary plat submission and other supplements must include the entire development and be in compliance with the procedures and standards contained in the Livingston Subdivision Regulations. Plat review will be based on the overall development. ☑

SANDERSON STEWART

Billings
Bozeman
Denver
Fort Collins

July 1, 2022

Mr. Jim Woodhull
Planning Director
City of Livingston
220 E. Park Street
Livingston, MT 59047

Reference: Mountain View Subdivision
Preliminary Plat Submittal
Project No. 18005.05

Dear Jim,

We have calculated the total preliminary plat fee based upon the City of Livingston's Planning Fee Schedule. Please review the fee breakdown below.

Preliminary Plat fee estimate:

Major Subdivision Fixed Fee	$ 800.00
Lot Fee, $40/lot x 39	$ 1,560.00
Total:	**$ 2,360.00**

Once the total fee amount is confirmed by you, we will provide the appropriate payment. Please let me know if you have any questions or need additional information. Feel free to contact me at 406/922-4311 or cnaumann@sandersonstewart.com.

Sincerely,

Chris Naumann
Associate | Senior Planner
Sanderson Stewart
106 East Babcock Street Suite L1
Bozeman MT 59715
cnaumann@sandersonstewart.com
406-922-4311 (d)
406-570-5758 (m)

SANDERSON STEWART

Billings
Bozeman
Denver
Fort Collins

July 1, 2022
Project No. 18005.05

MOUNTAIN VIEW
MAJOR SUBDIVISION
PRELIMINARY PLAT APPLICATION
APPLICATION NARRATIVE

INTRODUCTION

On behalf of Livingston West, LLC, Sanderson Stewart is submitting this Preliminary Plat Application for the proposed Mountain View Subdivision. This highway commercial subdivision is within the City of Livingston. The project would create 38 lots, public right-of-way, and open space totaling approximately 64 acres. These new lots would be served by the City of Livingston water and sanitary sewer systems.

The subdivision will be accessed from Highway 10 via PFL Way and Antelope Drive. It is generally located on Section 22 of Township 02 South Range 09 East. See Figure 1: Vicinity Map.

SITE LOCATION

Mountain View Subdivision is located on 64.241 acres of land to the east of the interchange of Interstate 90 and Highway 10. More specifically, the project is located on Parcel 1-A of C.O.S. 2748RB and Parcel 2-A of C.O.S 2621RB, situated in the NW ¼ of Section 22, Township 02 South, and Range 09 East in the City of Livingston, Park County, Montana. See Figure 1: Vicinity Map.

EXISTING CONDITIONS

Structures

There is one existing building (approximately 110,000 GSF) with an associated parking lot (approximately 300 spaces) present within the new subdivision boundaries on parcel 2-A of C.O.S 2621 RB. This building is the Printing for Less (PFL) manufacturing facility owned by PrintingForLess.com, Inc. Although not included in the proposed Mountain View Subdivision, a new FedEx distribution facility (approximately 20,500 GSF) and its associated site improvements are currently under construction on the adjacent parcel (Parcel 3-A1 of C.O.S. 2748 RB). The footprints

of the existing and under-construction buildings can be seen in Figure 2: Overall Development Plan.

Public Infrastructure

There is approximately 550 LF of Antelope Drive currently paved, and 1,430 LF of Antelope Drive under construction in the subdivision. There is also approximately 550 LF of a 10-inch public sewer main that follows the existing roadway. In addition, a 10-inch public sewer main is currently under construction that follows the roadway along its entire length, continuing to the southeast where the sewer main leaves the subdivision. There is approximately 550 LF of a 12-inch public water main that follows the existing roadway. A 12-inch public water main is also under construction and will follow the new roadway within the subdivision with the associated water services, valves, and hydrants. Storm drainage is generally collected in the roadway gutters and conveyed through storm drainage infrastructure to a temporary on-site detention pond located at the end of Antelope Drive. Once the extension of Antelope drive occurs, this temporary detention pond will be relocated to the southeast corner of the subdivision. All existing public infrastructure is shown on the Civil Engineering Plans and the Preliminary Plat.

Private Utilities

There is an existing overhead power line with a 30' wide easement at the southern corner of the subdivision. In addition, there are several underground utility lines with 10' easements running through multiple lots of the subdivision. All existing private utility easements are shown on the Civil Engineering Plans and the Preliminary Plat.

Private Utility Easement

There are two existing 20' underground electric easements shown on the existing Certificates of Survey with "exact location undetermined". One is on Tract 3-A1 of COS 2748RB per Recorded Document No. 426785 and the other is on Tract 2-A of COS 2621RB per Recorded Document Nos. 333214 and 406962. It is the intent of the applicant to either vacate (if no in use) or exactly locate both easements prior to Final Plat.
There is one existing 60' public access and utility easement shown on Tract 1-A of COS 2748RB and proposed Mountain View Subdivision Lot 3 per Roll 219, Page 1501 and Roll 223, Page 56 as originally located on COS 1941. It is the intent of the applicant to verify this easement is no longer in use and vacate the easement prior to Final Plat.

Vacant Land

Except for the PFL facility, the remainder of the proposed subdivision is undeveloped. The land is primarily characterized by rolling hills and grassland, with a large wetland area located in the northeast quadrant of the subdivision and steeper hill areas located in the southeast corner of the subdivision.

ZONING & LAND USE

Highway Commercial

The two tracts seeking subdivision are currently zoned as Highway Commercial within the City of Livingston city limits. Therefore, all the proposed subdivision lots are subject to the Highway Commercial zoning designation. Highway Commercial is defined by the City of Livingston as:

> "a district intended to provide areas for residential structures, commercial and service enterprises which serve the needs of the tourist, traveler, recreationalist or the general traveling public. Areas designated as Highway Commercial should be located in the vicinity of freeway interchanges, intersections on limited access highways, or adjacent to primary and secondary highways."

Future development within Mountain View subdivision will be required to meet the Highway Commercial zoning requirements. Zoning designations can be seen on Figure 1: Vicinity Map.

OVERALL DEVELOPMENT PLAN

General Description

There is no master development plan for the Mountain View subdivision regarding how the new subdivided lots will be developed in the future. All future lot developments will be subject to the Highway Commercial zoning requirements and submitted for formal site plan review and approval.

Current Ownership

The current ownership of the land comprising the proposed Mountain View Subdivision is shown on Figure 2: Overall Development Plan. Livingston West LLC currently owns proposed Lots 1 – 28. Printingforless.com INC currently owns proposed Lots 29 – 39. The following adjacent tracts are not included in the proposed subdivision COS 1119, COS 370, and COS 2748RB.

Lot Layout

Mountain View Subdivision will be subdivided into 39 lots that will range from 0.26 acres to 11.6 acres with most of the lots being between 0.5 and 1.5 acres. One of those lots will be PFL's existing facilities with a land area of 11.009 acres. Two of the lots, totaling approximately 18 acres, will be designated as open space. The remaining lots will range from 0.270 acres to 1.230 acres and will be intended for both commercial and residential development.

Final Plat Phasing

The subdivision will be final platted in three phases. The first final plat phase will consist of lots 2-17 and 39, phase two will consist of lots 1, 18-28, and phase three will consist of lots 29-38. The lot layout and phasing can be seen in Figure 2: Overall Development Plan and the Preliminary Plat.

Open Space

Lots 2 and 25, for a combined acreage of approximately 18 acres, will be designated as open space. Lot 2 is in the northeast corner of the subdivision and include a substantial amount of wetland area. Lot 25 is in the southeastern corner of subdivision and primarily consists of hilly grassland. The maximum required residential open space for the subdivision would be less than 4 acres. The proposed open space lots can be seen in Figure 2: Overall Development Plan and on the Preliminary Plat.

GRADING & DRAINAGE PLAN

General Description

The roadway extensions will generally follow the existing drainage patterns and slope towards the southeast to the existing wetlands. Roadways will be sloped to drain to the associated gutters and conveyed through storm drainage infrastructure toward the proposed detention pond. The proposed lots will drain towards the new streets and will be conveyed along swales following the proposed roadways. These swales will convey the runoff towards the proposed detention pond. As development occurs on the lots, the swales will be filled as the developments will be required to mitigate runoff within their site. The new detention basin at the end of the asphalt cul-de-sac at PFL Way will be sized to store and convey the pre-development peak flows from each of the lots. The proposed grading and drainage are shown on the Civil Engineering Plans. For more drainage information see Appendix A: Preliminary Stormwater Report.

PROPOSED SUBDIVISION IMPROVEMENTS

General Improvements

The proposed general improvements of the Mountain View Subdivision include streets, street signage, boulevards, sidewalks, and street lighting. All these improvements will be designed to meet the requirements established in the City of Livingston Public Works Design Standards and Specifications Policy including the corresponding Modifications to Montana Public Works Standards. As such all sidewalks will be ADA compliant and all street lighting will meet the requirements of the Night Sky Protection Act. All the proposed subdivision improvements are listed in Appendix C: Subdivision Improvements.

Streets

The proposed street improvements for the Mountain View Subdivision includes a 1,100 LF extension of Antelope Drive, a 740 LF extension of PFL Way, and an additional 320 LF roadway (Street A) to provide access to the remaining lots within the subdivision. The proposed street improvements are shown on the Civil Engineering Plans and the Preliminary Plat.

Stormwater

A preliminary drainage report summarizing the design of the future stormwater system associated with the Mountain View Major Subdivision is provided in Appendix A: Preliminary Stormwater Report. The report presents a summary of calculations performed to quantify the necessary storm

drainage improvements. The storm drain system will be designed to meet the requirements in The City of Livingston Design Standards and Specification Policy (DSSP) of February 2021.
There will be one (1) stormwater detention pond in the southeast portion of the subdivision to treat runoff from the street network. There will be one (1) stormwater detention pond near Highway 10 to treat existing predevelopment storm flows from Jesson property to the west northwest. The proposed stormwater facility easements are shown on the Civil Engineering Plans and the Preliminary Plat. For more stormwater information see Appendix A: Preliminary Stormwater Report.

Sewer & Water

A preliminary report summarizing the design of the future sanitary sewer and water main installations associated with the Mountain View Major Subdivision is provided in Appendix B: Preliminary Sewer & Water Report. The project will extend sanitary sewer and water, as well as provide water service stubs and sanitary stubs to serve future developments within a portion of the subdivision. The provided report summarizes the water and sewer main design and capacity calculations for the water and sewer services to the future development.
Utility improvements for the subdivision include approximately 340-feet of 8-inch PVC sewer line, and three (3) 48-inch sanitary sewer manholes. The main will tie-in to an existing sanitary 10-inch sewer main at Antelope Drive with a sanitary sewer manhole connection. The proposed water system consists of approximately 340-LF of new 8-inch diameter PVC water main, water services, valves, and hydrant as shown on the plans. The proposed 8-inch diameter main will tie-in to an existing 12-inch water main at Antelope Drive with a 12" x 12" x 8" tee. The proposed public utilities are shown on the Civil Engineering Plans and Preliminary Plat. For more water and sewer information see Appendix B: Preliminary Sewer and Water Report.

DRC ADDITIONAL INFORMATION

Potential Alley Access

Due to the proposed small lot layout of this subdivision and the lack of a land use development plan, the applicability of alleyways cannot be determined at this time. If multiple lots were used for a single development a common drive and/or alleyways could be incorporated into the design.

Active Transportation

At request of the City of Livingston's Building and Planning Director, Jim Woodhull, active transportation and transit facilities are conceptually proposed in the Mountain View Subdivision plan. A future bus route is anticipated to circumnavigate the subdivision along Antelope Drive and PFL Way to serve the transportation needs of PFL, FedEx, and any future development within the subdivision. There will be multiple bus stops along the route on Antelope Drive and one bus shelter on PFL Way. Shared use paths designed for bikers and pedestrians will be located along the north and south sides of Highway 10 and will extend into Mountain View Subdivision along PFL Way. Sidewalks will border all new streets in the subdivision to complete the pedestrian network. A natural surface trail will also extend into Lot 2 to access the wetlands and open space. These multimodal facilities can be seen in Figure 5: Active Transportation Plan.

Traffic Trip Generation

At request of the City of Livingston's Building and Planning Director, Jim Woodhull, a preliminary traffic trip generation analysis was produced for the proposed Mountain View subdivision. The analysis concluded:

> "Projected queuing during the PM peak hour at the West Park Street/Hwy 10/North 7th Street intersection stretches to North 6th Street on the north leg, through the North 8th Street intersection on the south leg, and past the U-Haul access driveway on Highway 10 (west leg). Queues on West Park Street are the same both with and without trips from the proposed Mountain View Subdivision, and do not reach any other signalized intersections. With the addition of Mountain View Subdivision trips, approximately 6 vehicles are projected to be added to the eastbound queue during the PM peak hour, with 3 vehicles added during the AM peak hour. A maximum of two vehicles are projected to be added to existing queues at the West Park Street/North 5th Street intersection during both peak hours."

The complete analysis is included in Appendix D: Traffic Trip Generation Analysis

PUBLIC AGENCY REVIEW

At request of the City of Livingston's Building and Planning Director, Jim Woodhull, formal letters were sent to three public agencies to solicit their review and comments on the proposed Mountain View Subdivision. The three public agencies included Montana Department of Transportation, Montana Fish, Wildlife, and Parks, and the State Historic Preservation Officer. These letters and any received comments are included as Appendix F: Public Agency Review.

PRIVATE SERVICE PROVIDER REVIEW

Letters were sent to four private service providers to solicit their review and comments on the proposed Mountain View Subdivision on request of the City of Livingston's Building and Planning Director, Jim Woodhull. The four service providers included NorthWestern Energy, Park Electric Cooperative, CenturyLink, and the United States Postal Service. These letters and any received comments are included as Appendix G: Private Service Provider Review.

SUMMARY OF PROBABLE IMPACTS & MITIGATION

As required by the City of Livingston Subdivision Regulations Section III B-6 this application includes a summary of probable impact. The impacts addressed include Agriculture, Ag Water, Local Services, Natural Environment, Wildlife & Habitat, and Public Health & Human Safety.

1. IMPACTS ON AGRICULTURE

A. Would the subdivision remove agricultural or timberlands with significant existing or potential production capacity?

There are no current agricultural or timberland resources on this site.

B. Would the subdivision remove from production agricultural lands that are critical to the area's agricultural operations?

There is no agricultural production on this site now or in the past. There are no agricultural water user facilities on this site.

C. Would the subdivision create significant conflict with nearby agricultural operations (e.g. creating problems for moving livestock, operating farm machinery, maintaining water supplies, controlling weeds, applying pesticides or would the subdivision generate nuisance complaints due to nearby agricultural operations)?

The proposed subdivision would not create conflicts with nearby agricultural operations.

2. IMPACT ON AGRICULTURAL WATER USER FACILITIES

A. Would the subdivision create a significant conflict with agricultural water user facilities (e.g. creating problems for operating and maintaining irrigation systems or creating nuisance complaints due to safety concerns, noise, etc.)?

The subdivision would not create conflicts with agricultural water user facilities.

3. IMPACT ON LOCAL SERVICES

A. What additional or expanded public services and facilities would be demanded to serve this subdivision?

i. What additional costs would result for services such as streets, law enforcement, parks and recreation, fire protection, water, sewer and solid waste, schools and busing (including additional personnel, equipment, construction, and maintenance costs)?

Public infrastructure is to be installed and paid for by private parties. Once dedicated to the City, maintenance requirements would fall upon the City of Livingston. Public infrastructure will include streets, street lighting, sidewalks, water mains, sewer mains and stormwater mains and ponds. See Appendix C: Subdivision Improvements for more detailed information.

ii. Who would bear these costs?

The materials and installation will be covered by the developer. Operations and maintenance costs would be covered by the City of Livingston.

iii. Can the service providers meet the additional costs given legal and other constraints?

The additional maintenance costs will be covered by the new additional tax revenue as the development builds out.

B. Would the subdivision allow existing services, through expanded use, to operate more efficiently or make the installation or improvement of services feasible?

The new sewer and water mains are designed to accommodate future development to the northwest and to be tied into the City's long term expansion plans to connect to the City's large tank reservoir to the north.

C. What are the present tax revenues received from the unsubdivided land by the County, City and Schools?

The current tax bills for these properties include a substantial amount of building square footage for the PFL.com building. The total current property tax bill is $160,824.47.

D. What would be the approximate revenues received by each above taxing authority when the subdivision is improved and built upon?

At final plat, it is estimated that each lot would have an average market value of $300,000. The new lots would have a taxable value of approximately $9,900,000 without additional building development. The total taxable value of the property would be derived by multiplying the market value by the tax rate of 1.35% (value obtained from the State of Montana for 2021) then utilizing the current mill rate of 0.58606 for the City of Livingston, which would result in a potential new additional revenue generated for 2023 of $78,326.92 for just the land. Once buildings are constructed this amount would increase substantially based on the size of the buildings.

E. Would new taxes generated from the subdivision cover additional public costs?

Yes.

i. Would any special improvement districts be created which would obligate the City fiscally or administratively?

There is currently a TIF District on this property that is scheduled to expire 2024. The current amount in the TIF will be used to cover a small amount of the new sewer and water development costs.

F. Other Impacts on Local Services—Water Rights

Regarding the disclosure and disposition of water rights as required by 76-3-504, the current property and property owners, thus subdividers, do not own any surface water rights.

4. IMPACT ON NATURAL ENVIRONMENT

A. How would the subdivision affect surface and groundwater, soils, slopes, vegetation, historical or archaeological features, and visual features within the subdivision or on adjacent lands?

i. **Would any streambanks be altered, streams rechanneled or any surface water contaminated from run-off carrying sedimentation or other pollutants?**

There are no streams on the proposed subdivision. Road drainage in the subdivision will be controlled by paved streets with concrete curb and gutter. Storm runoff will be collected by the gutters and transported to stormwater inlets. From the inlets, the stormwater will be conveyed to onsite stormwater detention ponds. Erosion of the road will be prevented due to the impervious paved surface. Erosion of the nonpaved right-of-way areas impacted during construction will be mitigated through reseeding affected areas after construction is complete. All phases of construction (public infrastructure and private development) will require DEQ Stormwater Pollution Prevention Plans to be approved and administered.

ii. Would groundwater supplies likely be contaminated or depleted as a result of the subdivision?

Groundwater supplies would not be depleted as of the proposed lots will be connected to City of Livingston water mains. Contamination of groundwater is not expected with the uses allowed by Highway Commercial zoning and applicable City and DEQ water quality regulations.

iii. Would construction of streets or building sites result in excessive cuts and fills on steep slopes or cause erosion on unstable soils?

Grading in areas that will be affected during construction will be done as to not adversely affect adjacent lands with stormwater runoff from the subdivision. The stormwater management plan for the subdivision has been designed in accordance with the standards of the City of Livingston and the Montana Department of Environmental Quality Design Circular DEQ-8.

iv. Would significant vegetation be removed causing soil erosion or bank instability?

The soils located within the proposed subdivision are lean clay with sand and clayey sand. Historically, the area receives between 14 and 16 inches of rain per year. The effect on native dryland vegetation will be limited to the developed areas. Revegetation of affected areas will be done as development occurs.

v. Would significant historical or archaeological features be damaged or destroyed by the subdivision?

The State Historical Preservation Office reviewed the proposed subdivision and concluded:

> "Based on previous survey within the project area we feel that there is a low likelihood cultural properties will be impacted. We, therefore, feel that a recommendation for a cultural resource inventory is unwarranted at this time."

The full response from the State Historical Preservation Office and a cultural assessment from 2004 prior to the construction of the Printing for Less building are provided in Appendix F: Public Agency Review.

vi. Would the subdivision be subject to natural hazards such as flooding, rock, snow or land slides, high winds, severe wildfires or difficulties such as shallow bedrock, high water table, unstable or expansive soils, or excessive slopes?

The subdivision is not located within a floodplain. The nearest floodplain designation is along Billman Creek south of Interstate 90 and poses no hazard to the proposed subdivision.

The subject area is does not have a history of rock, snow, or landslides.

All the structures built in the subdivision will conform to building standards which will prevent hazards caused by high winds that frequently occur in the area.

Wildfire in the area is not a high risk due to the lack of fuel and the availability of fire protection in the subdivision.

The geotechnical work performed in May 2021 by Terracon Consultants, Inc. for the FedEx project currently being constructed by Ruedebusch Development & Construction identified soil depths ranging between 8 and 21 feet and water depths ranging from 6 to 15 feet below existing site grades.

The soils on the site are typical of the area and predominantly lean clay with sand. This soil type is not characterized as unstable or expansive in nature.

Although moderately steep in areas, the topography of the site is not conducive to snow or rockslides. There are no excessive slopes on the property that may be a potential hazard.

vii. Other Natural Environment Impacts—Weed Management Plan

Mountain View subdivision will comply with Park County Weed Control District requirements. Following preliminary plat approval, a weed management plan application and 3-year monitoring contract will be submitted to the district and a noxious weed management plan will be developed with the Park County Weed Control Board. The subdivision will abide by the Montana County Weed Act (Title 7, Chapter 22, Sections 7-22-2101 through 7-22-2153).

5. IMPACTS ON WILDLIFE AND HABITAT

A. How would the subdivision affect critical wildlife areas such as big game wintering range, migration routes, nesting areas, wetlands or other important habitat?

The proposed subdivision contains wetland areas, as shown on the preliminary plat, that will be protected during and after construction of the subdivision, or appropriate steps will be taken to minimize any disturbance. A wetland study was conducted by Sundog Ecological, Inc. and is contained in Appendix E: Wetland Delineation Report. This study delineates the wetland and surface water areas that exist on the development. Effects on the quality and quantity of wetland and surface water will be mitigated by designing around these areas to the greatest extent possible.

The proposed subdivision has not been previously formally identified as big game wintering range or migration routes. The applicant has solicited comments from Montana Fish Wildlife and Parks, but none have been received at this time. See Appendix F: Public Agency Review for agency request for review documentation.

B. How would pets or human activity affect wildlife?

Pets and their owners will have access to the subdivision's private property, public sidewalks, any future trails, and the proposed open spaces. It is suggested that pets be kept on leashes while in these areas. Wildlife will continue to be allowed access to proposed open spaces totally approximately 20 acres.

6. IMPACTS ON PUBLIC HEALTH AND SAFETY

A. Would the subdivision be subject to hazardous conditions due to high voltage lines, airports, highways, railroads, high-pressure gas lines, or adjacent industrial uses?

The proposed Mountain View Subdivision Lots 12 – 23, and 25 are adjacent to the Montana Department of Transportation (MDT) Right of Way for Interstate 90. The proposed subdivision Lots 2 – 11 are adjacent to MDT Right of Way for State Highway 10. The proposed subdivision Lots 2 – 5 are approximately 500 feet from the Montana Rail Link railroad tracks to the north of Highway 10. Despite the proximity of the proposed subdivision to the infrastructure referenced above, and because all the applicable setbacks are in place, the proposed Mountain View Subdivision would not be subject to hazardous conditions due to the adjacent infrastructure.
The proposed subdivision includes the Printing for Less facility and is adjacent to the FedEx Ground facility which is currently under construction. These light industrial uses do not pose any hazardous conditions and have been constructed and will operate in accordance with the City of Livingston regulations that mitigate any hazards including noise.

B. What existing uses may be subject to complaints from residents of the subdivision?

In theory any of the existing uses, public and private, may be subject to complaints from tenants or users of the proposed subdivision. The uses of potential concern, such as the highways and railroad, predate any development in the area and the characteristics of these uses are generally recognized and accepted.

C. What public health or safety hazards, such as dangerous traffic or fire conditions, would be created by the subdivision?

The Mountain View Subdivision will not create any public health or safety hazards.

Montana Department of Transportation
Benjamin & Brittney Hampson
Barry & Heather Payne
Robert & Kristie Payne
Wendale Properties LLC
Joseph Vanblaricom
Mark & Helen Egeland
W END RD
Margie Jesson Trustee
Margie W Jesson Trustee
US HIGHWAY 10 W
INTERSTATE 90 W
I 90 ON RAMP
I 90 OFF RAMP
ANTELOPE DR
PFLWAY
Livingston West LLC
2022 Livingston LLC (FedEx Ground Facility)
Chana Montana Real Estate Holdings LLC
PrintingForLess.com Inc
Alvin & Aleta Hering
Windy City Properties LLC
Bradley & Jessica Hanson
Philip Jesson
Michael Adams
INTERSTATE 90 E
Alvah & Marlie Askin
Marie Voyich
Wayne & Beth Waggoner

Subdivision Properties
Existing Water Mains
Existing Sewer Mains
Existing Power Lines
Fire Hydrants
Parcels
Zoning: Highway Commercial
Buildings
Livingston City Limits

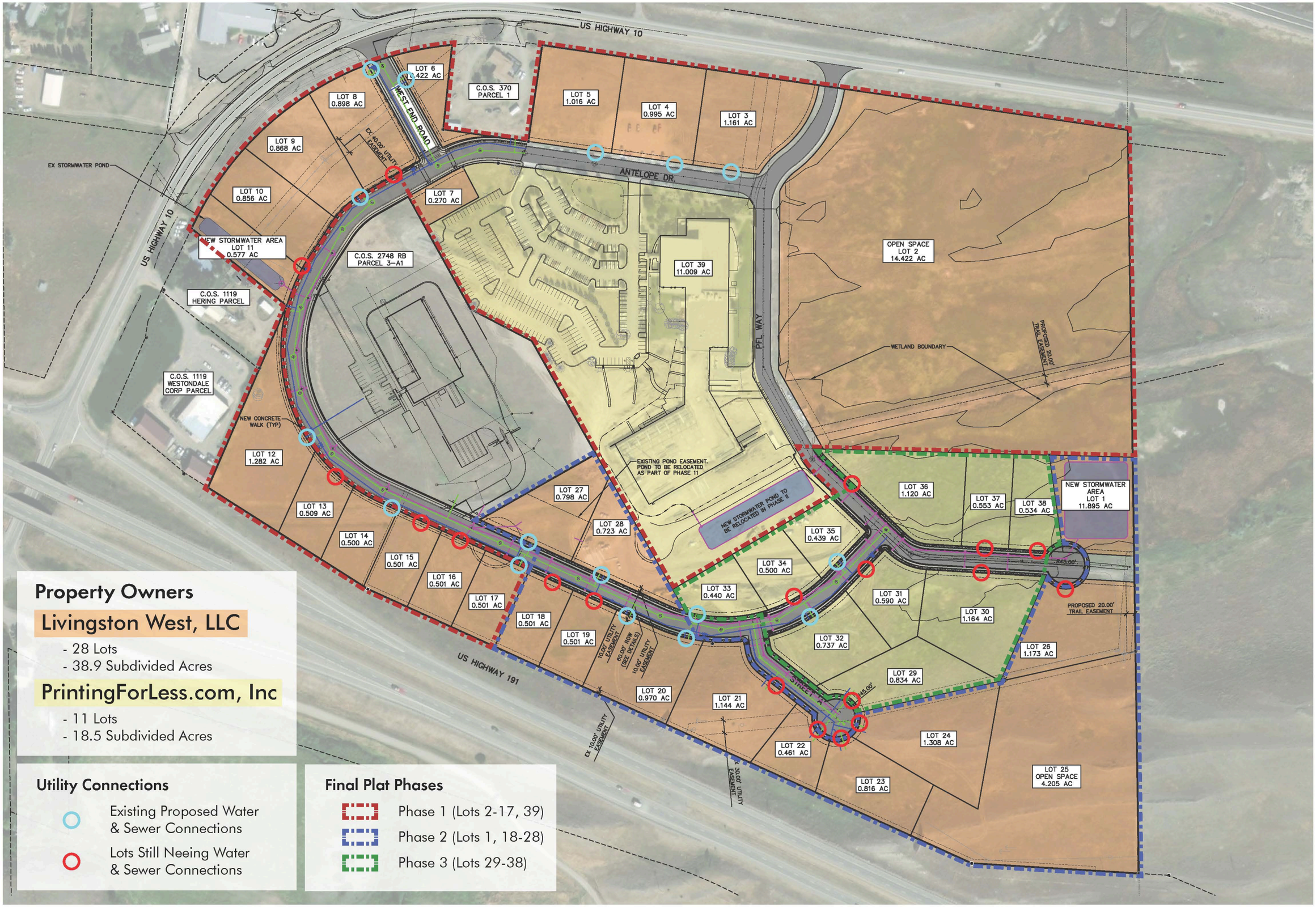
June 13, 2022

SANDERSONSTEWART

Mountain View Subdivision: Vicinity Map

NORTH

0 250 500 1,000 Feet



Property Owners

Livingston West, LLC

- 28 Lots
- 38.9 Subdivided Acres

PrintingForLess.com, Inc

- 11 Lots
- 18.5 Subdivided Acres

Utility Connections

- Existing Proposed Water & Sewer Connections
- Lots Still Neeing Water & Sewer Connections

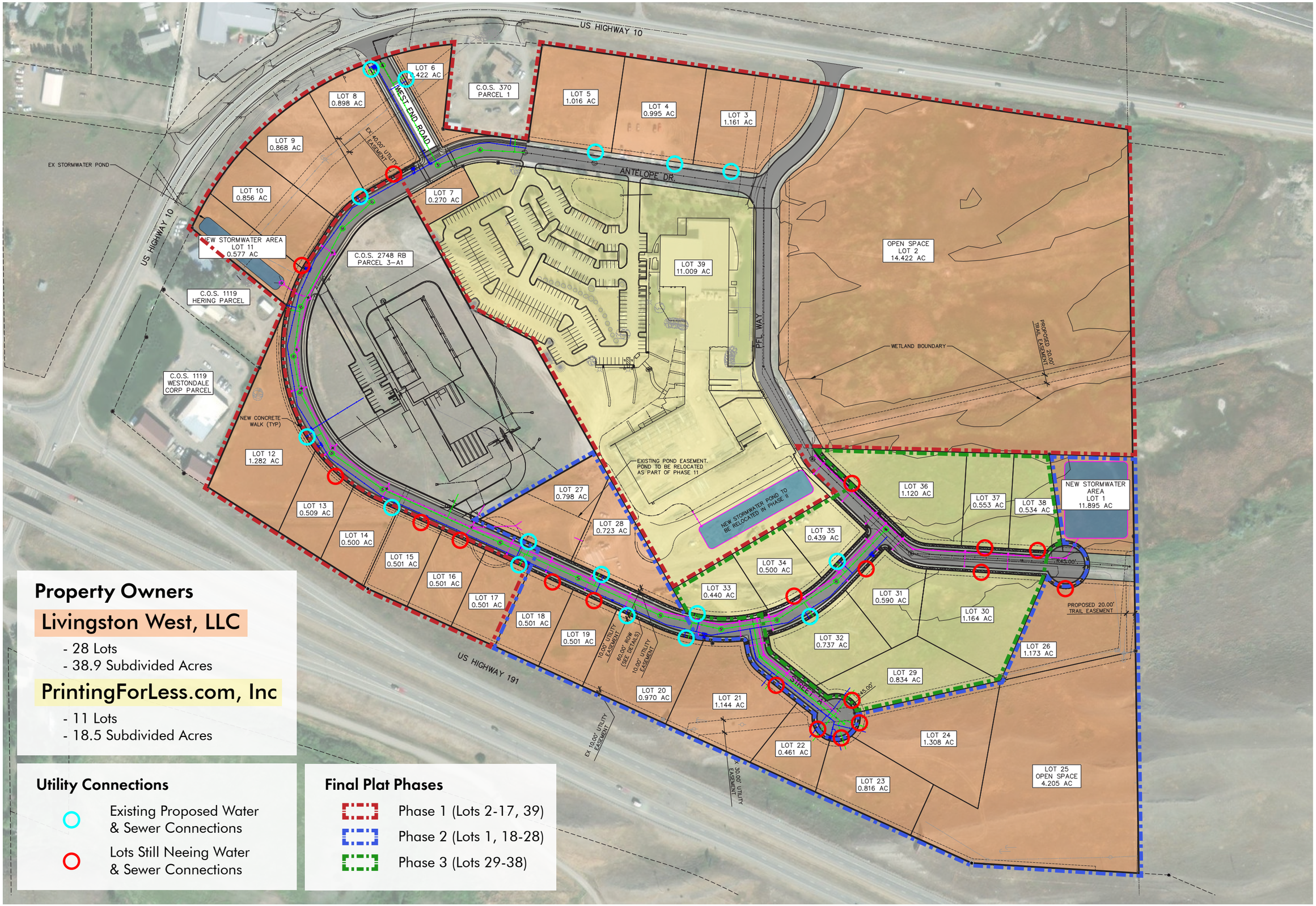
Final Plat Phases

- Phase 1 (Lots 2-17, 39)
- Phase 2 (Lots 1, 18-28)
- Phase 3 (Lots 29-38)

SANDERSON STEWART

Enduring Community Design

MOUNTAIN VIEW SUBDIVISION
OVERALL DEVELOPMENT PLAN



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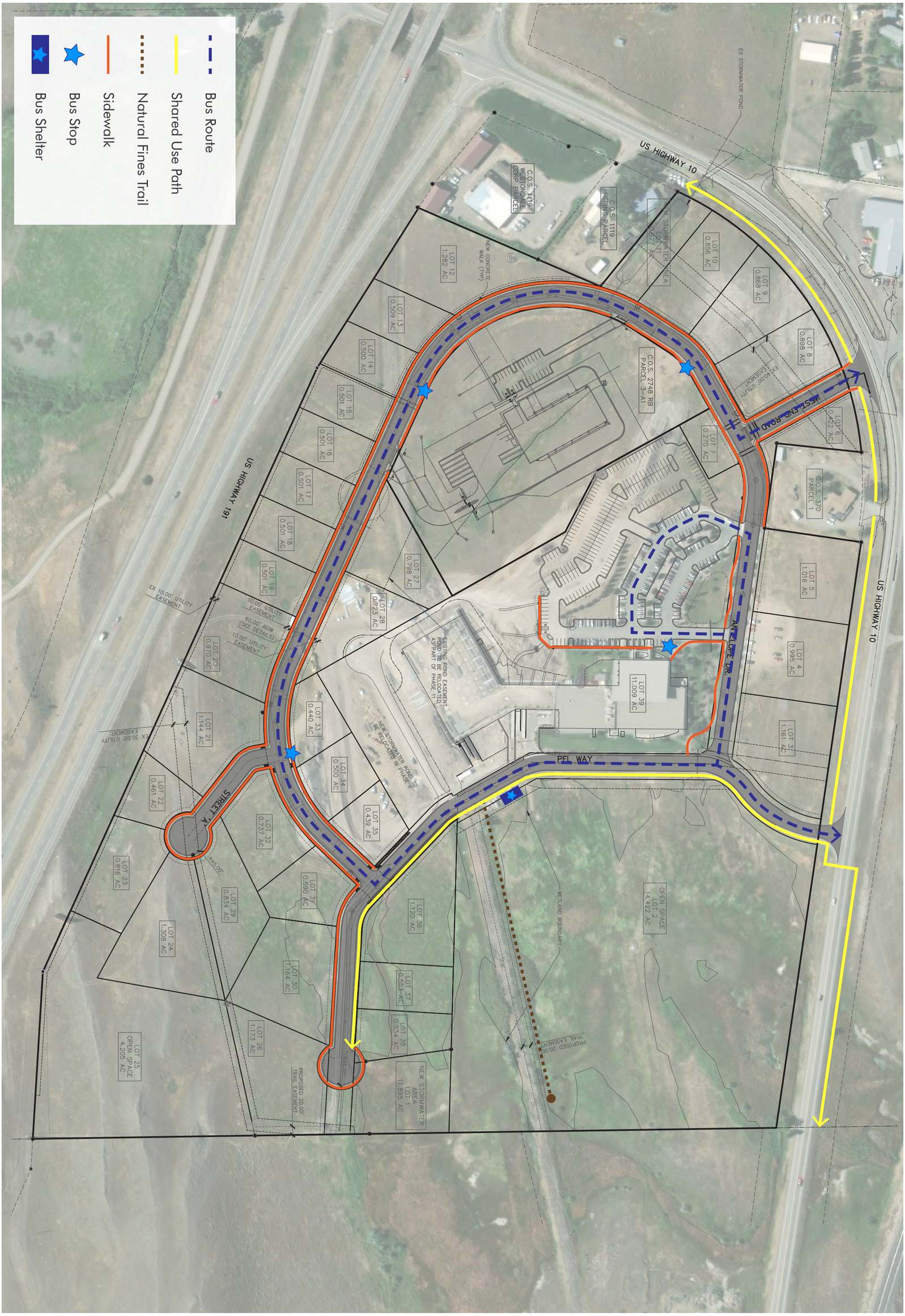
SANDERSON STEWART

Enduring Community Design

MOUNTAIN VIEW SUBDIVISION
OVERALL DEVELOPMENT PLAN



MOUNTAIN VIEW SUBDIVISION
ACTIVE TRANSPORTATION CIRCULATION

SANDERSON STEWART
Enduring Community Design

MOUNTAIN VIEW SUBDIVISION

PROPOSED SITE & UTILITY IMPROVEMENTS

FOR TRACT 1-A OF COS 2748RB & TRACT 2-A OF COS 2621RB

LIVINGSTON, MONTANA

PREPARED FOR:

LIVINGSTON WEST, LLC
100 PFL WAY
LIVINGSTON, MT 59047

NORTH

VICINITY MAP

NOT TO SCALE

Sheet	Title	
C1.1	COVER	1
C1.2	LEGEND, NOTES & ABBREVIATIONS	2
C2.1	EXISTING SITE & DEMOLITION PLAN	3
C3.1	SITE PLAN	4
C4.1	UTILITY PLAN	5
C5.1	GRADING & STORM DRAINAGE PLAN	6
C6.1	DETAILS	7

FILE: 18005_05_COVER_PROD.DWG
PROJECT NO: 18005.05
CAD: NAH
QUALITY ASSURANCE: -

DRAWING HISTORY

DATE	DESCRIPTION
-	-
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-	-

SANDERSON STEWART
Enduring Community Design

106 East Babcock, Suite L1 | Bozeman, Montana 59715 | 406.522.9876 | sandersonstewart.com

C1.1

LINETYPES

	EXISTING	PROPOSED
SANITARY SEWER	SS	SS
STORM DRAIN	SD	SD
WATER	W	W
CURB AND GUTTER		
EDGE OF ASPHALT	EDGE OF EX ASPHALT	
EDGE OF GRAVEL	EDGE OF EX GRAVEL	
FENCE - BARBWIRE	X	X
FENCE - CHAINLINK/ WOVEN WIRE		
FENCE - VINYL	V	V
FENCE - WOOD		
FIBER OPTIC	FO	FO
GAS PIPELINE	G	G
OIL PIPELINE	OIL	OIL
UNDERGROUND POWER	P	P
OVERHEAD POWER	OHP	OHP
TELEPHONE	T	T
TELEVISION/CABLE	TV	TV
CONTOUR	3157	3157
DEMO AREA		
PROPOSED ASPHALT		
PROPOSED CONCRETE		
PROPOSED GRAVEL		

ABBREVIATIONS

AC = FINISHED GRADE AT ASPHALT

BC = FINISHED GRADE AT BUILDING CORNER

BRK = GRADE BREAK

BFV = BUTTERFLY VALVE

BVC = BEGIN VERTICAL CURVE

CS = CURB STOP

EA = FINISHED GRADE AT EDGE OF ASPHALT

EC = FINISHED GRADE AT EDGE OF CONCRETE

EVC = END VERTICAL CURVE

EW = FINISHED GRADE AT EDGE OF WALK

EX = APPROXIMATE EXISTING ELEVATION

FL = FINISHED GRADE AT FLOWLINE

FT = FEET

FG = FINISHED GRADE

GR = EXISTING GRADE AT GROUND

GV = GATE VALVE

HP = HIGH POINT

LF = LINEAL FOOT

LT = LEFT

(#) KEYNOTE CALL OUT (SEE KEYNOTE LEGEND)

PC = POINT OF CURVATURE

PI = POINT OF INTERSECTION

POC = POINT ON CURVE

PRC = POINT OF REVERSE CURVE

PT = POINT OF TANGENCY

PVI = POINT OF VERTICAL INTERSECTION

RED = REDUCER

RT = RIGHT

SD = STORM DRAIN

SDI = STORM DRAIN INLET

SDMH = STORM DRAIN MANHOLE

SRVC = SERVICE

SS = SANITARY SEWER

SSMH = SANITARY SEWER MANHOLE

TC = FINISHED GRADE AT TOP BACK OF CURB

TW = FINISHED GRADE AT TOP OF WALL

WTR = WATER

(TYP.) = TYPICAL

SYMBOLS

- EXISTING WATER REDUCER
- PROPOSED WATER REDUCER
- EXISTING WATER VALVE
- PROPOSED WATER VALVE
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- EXISTING CURB STOP
- PROPOSED CURB STOP
- FIRE DEPT. CONNECTION
- WELL
- EXISTING WATER MANHOLE
- WATER METER
- YARD HYDRANT
- EXISTING SANITARY SEWER MANHOLE
- PROPOSED SANITARY SEWER MANHOLE
- SANITARY SEWER CLEAN OUT
- EXISTING STORM DRAIN MANHOLE
- PROPOSED STORM DRAIN MANHOLE
- EXISTING CATCH BASIN
- PROPOSED CATCH BASIN
- ROOF DRAIN
- TELEPHONE BOX
- TELEPHONE MANHOLE
- TELEPHONE PEDESTAL
- COMMUNICATIONS MANHOLE
- COMMUNICATIONS PEDESTAL
- FIBER OPTIC PEDESTAL
- GAS MANHOLE
- GAS METER
- GAS WELL
- GAS VALVE
- ELECTRIC JUNCTION BOX
- ELECTRIC PEDESTAL
- TRANSFORMER
- POWER MANHOLE
- POWER METER
- POWER POLE
- GUYWIRE
- LIGHT POLE
- SIGN
- BOLLARD
- EXISTING MONUMENT BOX
- PROPOSED MONUMENT BOX
- IRRIGATION BOX
- IRRIGATION VALVE
- BUSH
- CONIFEROUS TREE
- DECIDUOUS TREE
- SIGNAL POLE
- FOUND CORNER MONUMENT AS NOTED
- SET CORNER MONUMENT, REBAR WITH CAP
- BENCHMARK
- SECTION QUARTER CORNER
- SECTION CORNER

NOTE:

-EXISTING UNDERGROUND INSTALLATIONS & PRIVATE UTILITIES SHOWN ARE INDICATED ACCORDING TO THE BEST INFORMATION AVAILABLE TO THE ENGINEER. THE ENGINEER DOES NOT GUARANTEE THE ACCURACY OF SUCH INFORMATION. SERVICE LINES (WATER, POWER, GAS, STORM, SEWER, TELEPHONE & TELEVISION) MAY NOT BE STRAIGHT LINES OR AS INDICATED ON THE PLANS. STATE LAW REQUIRES CONTRACTOR TO CALL ALL UTILITY COMPANIES BEFORE EXCAVATION FOR EXACT LOCATIONS.

-ALL IMPROVEMENTS SHALL BE PERFORMED IN ACCORDANCE WITH MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS 6TH EDITION, APRIL, 2010, AND THE CITY OF LIVINGSTON STANDARD MODIFICATIONS, APPROVED MAY 2014.

-UNLESS OTHERWISE SPECIFIED, ALL CONSTRUCTION LAYOUT AND STAKING SHALL BE PERFORMED UNDER THE RESPONSIBLE CHARGE OF A LAND SURVEYOR LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED AND BY A PARTY CHIEF OR ENGINEERING TECHNICIAN EXPERIENCED IN CONSTRUCTION LAYOUT AND STAKING TECHNIQUES AS ARE REQUIRED BY THE SPECIFIC TYPE OF WORK BEING PERFORMED.

PRELIMINARY - FOR REVIEW

SANDERSON STEWART
Enduring Community Design

DRAWING HISTORY

DATE	DESCRIPTION
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FILE: 18005_05_COVER_PROD.DWG
PROJECT NO: 18005.05
CAD: NAH
QUALITY ASSURANCE: -

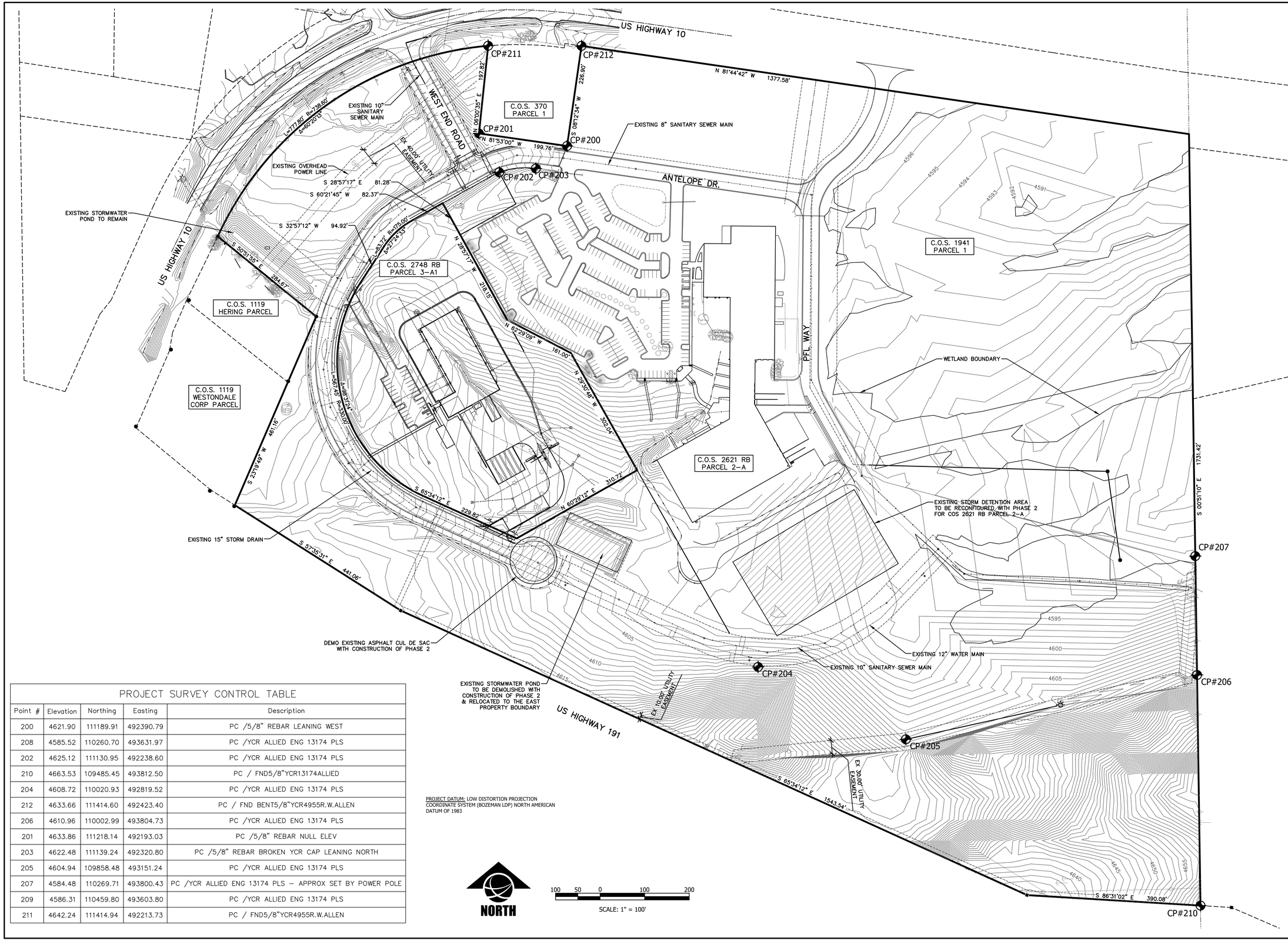
MOUNTAIN VIEW SUBDIVISION

PROPOSED SITE & UTILITY IMPROVEMENTS
FOR TRACT 1-A OF COS 2748RB & TRACT 2-A OF COS 2621RB

LIVINGSTON, MONTANA

LEGEND, NOTES & ABBREVIATIONS

C1.2



PROJECT SURVEY CONTROL TABLE

Point #	Elevation	Northing	Easting	Description
200	4621.90	111189.91	492390.79	PC /5/8" REBAR LEANING WEST
208	4585.52	110260.70	493631.97	PC /YCR ALLIED ENG 13174 PLS
202	4625.12	111130.95	492238.60	PC /YCR ALLIED ENG 13174 PLS
210	4663.53	109485.45	493812.50	PC / FND5/8"YCR13174ALLIED
204	4608.72	110020.93	492819.52	PC /YCR ALLIED ENG 13174 PLS
212	4633.66	111414.60	492423.40	PC / FND BENT5/8"YCR4955R.W.ALLEN
206	4610.96	110002.99	493804.73	PC /YCR ALLIED ENG 13174 PLS
201	4633.86	111218.14	492193.03	PC /5/8" REBAR NULL ELEV
203	4622.48	111139.24	492320.80	PC /5/8" REBAR BROKEN YCR CAP LEANING NORTH
205	4604.94	109858.48	493151.24	PC /YCR ALLIED ENG 13174 PLS
207	4584.48	110269.71	493800.43	PC /YCR ALLIED ENG 13174 PLS – APPROX SET BY POWER POLE
209	4586.31	110459.80	493603.80	PC /YCR ALLIED ENG 13174 PLS
211	4642.24	111414.94	492213.73	PC / FND5/8"YCR4955R.W.ALLEN

PROJECT DATUM: LOW DISTORTION PROJECTION
COORDINATE SYSTEM (BOZEMAN LDP) NORTH AMERICAN
DATUM OF 1983

NORTH

100 50 0 100 200
SCALE: 1" = 100'

PRELIMINARY - FOR REVIEW

SANDERSON STEWART
Enduring Community Design

DRAWING HISTORY

DATE	DESCRIPTION
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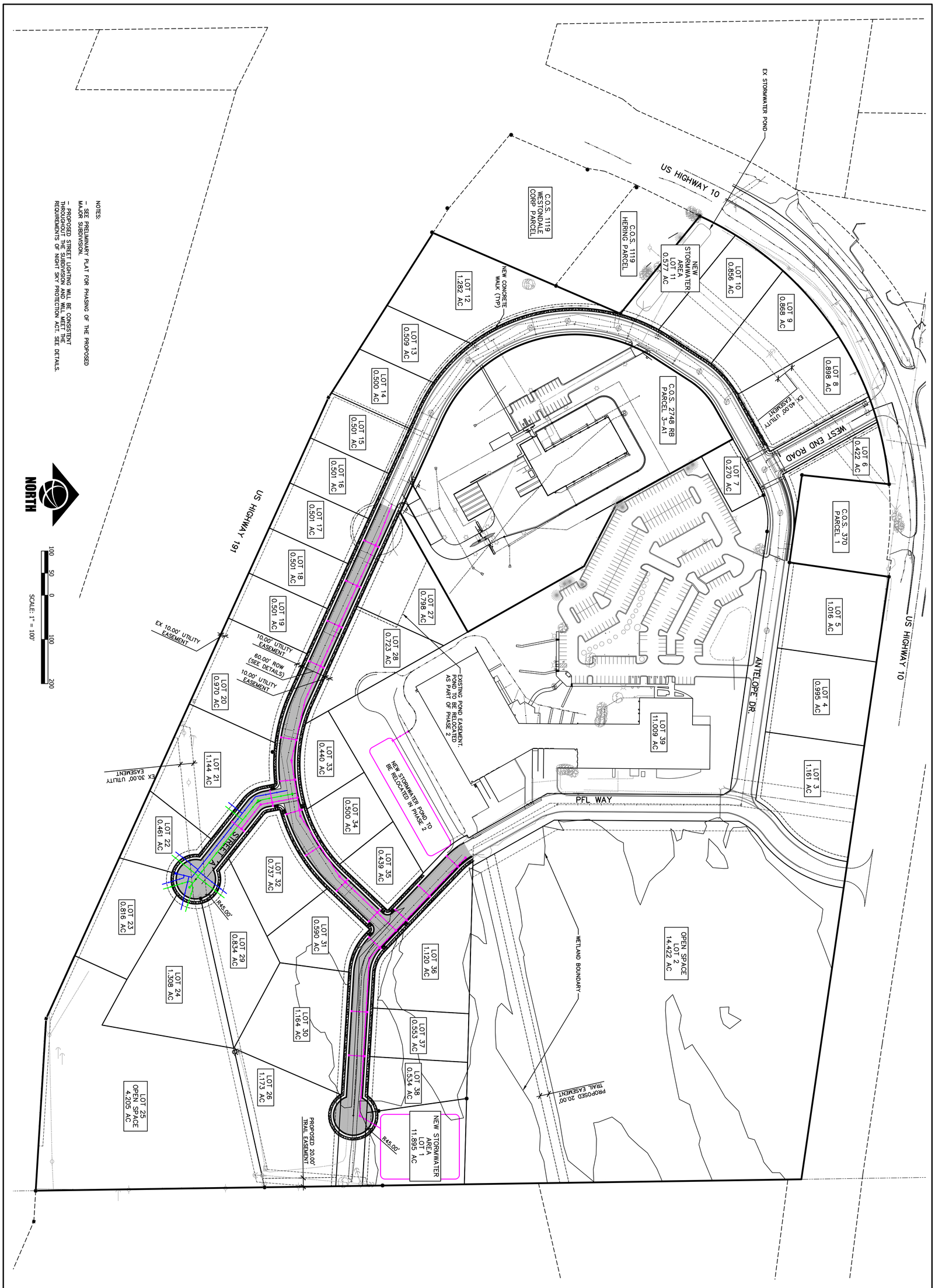
FILE: 18005_05_EX_PROD.DWG
PROJECT NO: 18005.05
CAD: NAH
QUALITY ASSURANCE: -

MOUNTAIN VIEW SUBDIVISION
PROPOSED SITE & UTILITY IMPROVEMENTS
FOR TRACT 1-A OF COS 2748RB & TRACT 2-A OF COS 2621RB
LIVINGSTON, MONTANA
EXISTING SITE & DEMOLITION PLAN

C2.1



PRELIMINARY - FOR REVIEW

C3.1

MOUNTAIN VIEW SUBDIVISION

PROPOSED SITE & UTILITY IMPROVEMENTS
FOR TRACT 1-A OF COS 2748RB & TRACT 2-A OF COS 2621RB

LIVINGSTON, MONTANA

SITE PLAN

FILE:	18005_05_SITE_PROD.DWG
PROJECT NO:	18005.05
CAD:	NAH
QUALITY ASSURANCE:	-

DRAWING HISTORY

DATE	DESCRIPTION
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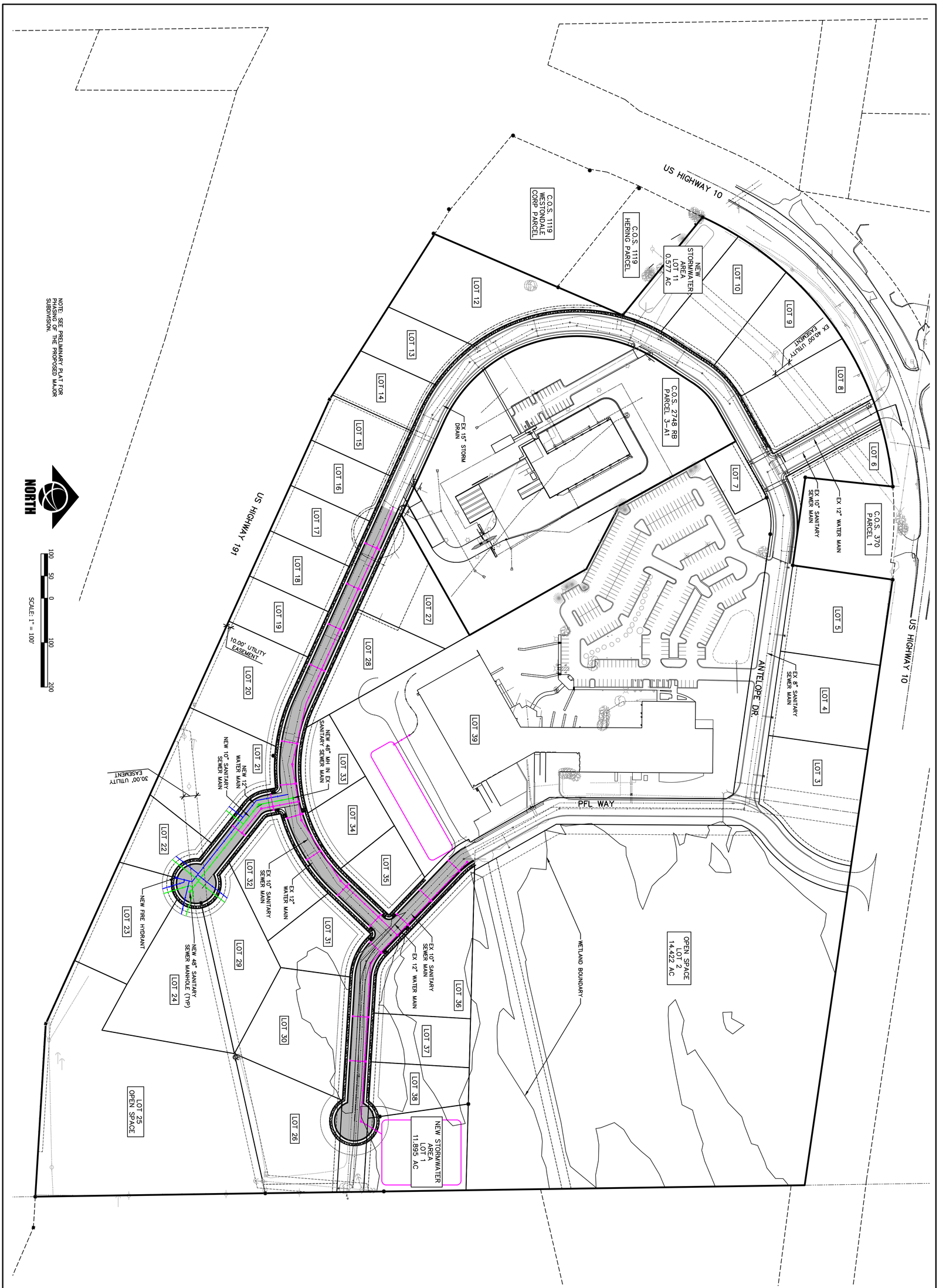
SANDERSON STEWART
Enduring Community Design



PRELIMINARY - FOR REVIEW

MOUNTAIN VIEW SUBDIVISION

PROPOSED SITE & UTILITY IMPROVEMENTS
FOR TRACT 1-A OF COS 2748RB & TRACT 2-A OF COS 2621RB

LIVINGSTON, MONTANA

UTILITY PLAN

C4.1

FILE: 18005_05_UTILITY_PROD.DWG
PROJECT NO: 18005.05
CAD: NAH
QUALITY ASSURANCE: -

DRAWING HISTORY

DATE	DESCRIPTION
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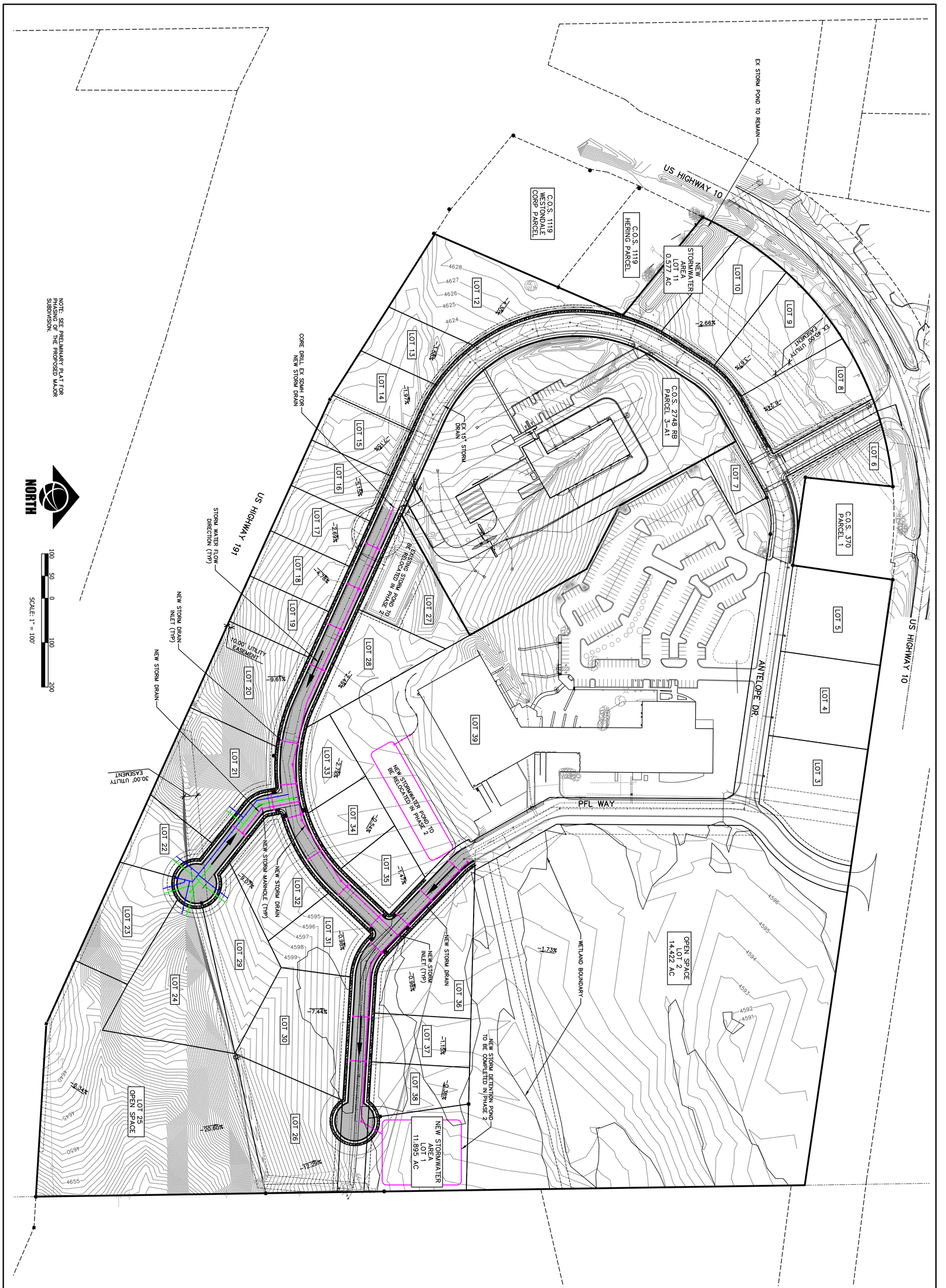
SANDERSON STEWART
Enduring Community Design



PRELIMINARY - FOR REVIEW

MOUNTAIN VIEW SUBDIVISION

PROPOSED SITE & UTILITY IMPROVEMENTS
FOR TRACT 1-A OF COS 2748RB & TRACT 2-A OF COS 2621RB

LIVINGSTON, MONTANA

GRADING & STORM DRAINAGE PLAN

C5.1

FILE:	18005_05_STORM_PROD.DWG
PROJECT NO:	18005.05
CAD:	NAH
QUALITY ASSURANCE:	-

DRAWING HISTORY

DATE	DESCRIPTION
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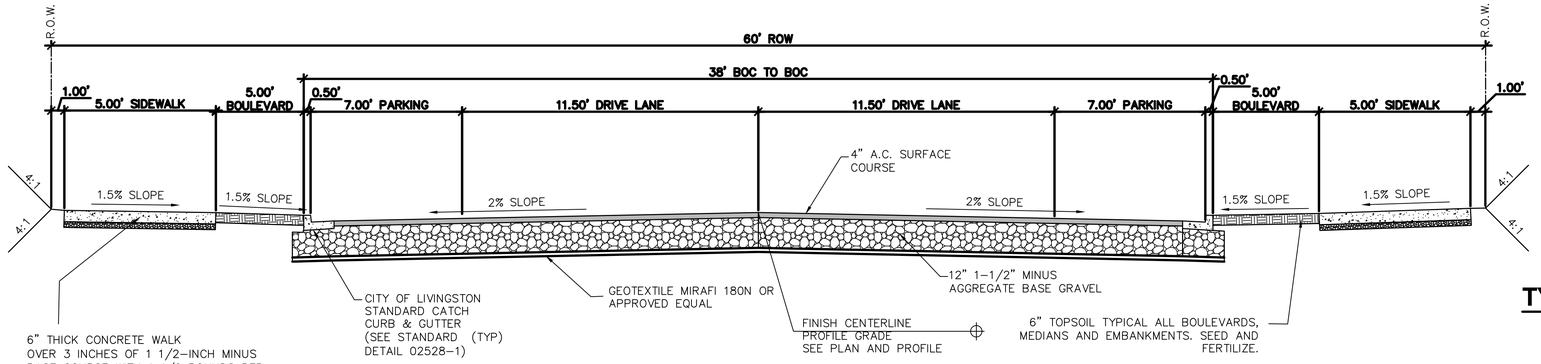
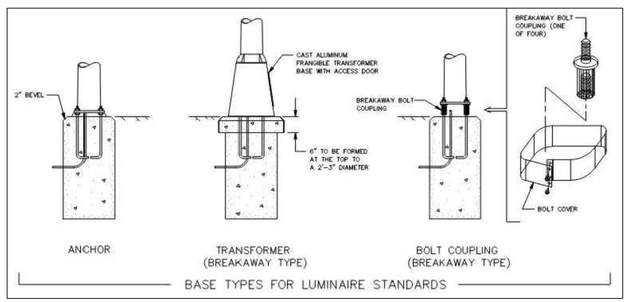
SANDERSON STEWART
Enduring Community Design



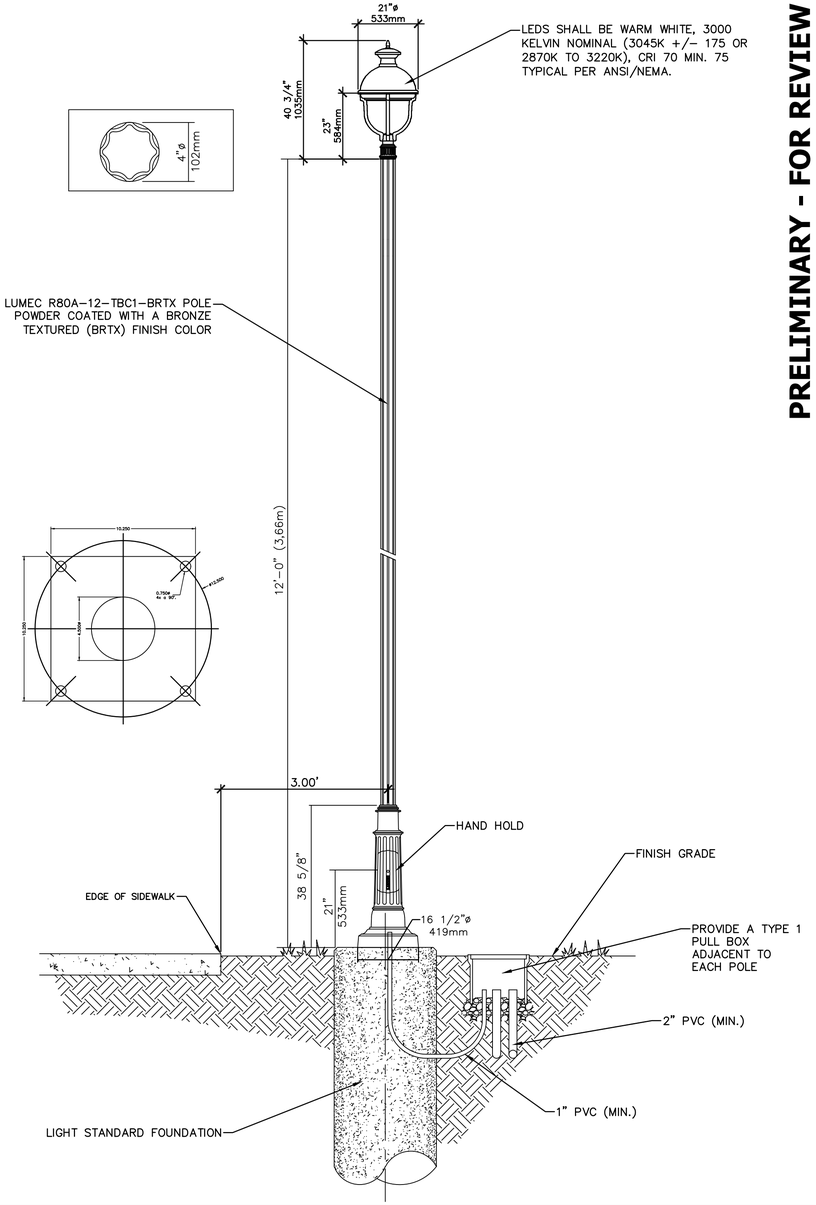
TYPICAL STREET SECTION

NOT TO SCALE



TYPICAL STREET LIGHT STANDARD DETAIL

NOT TO SCALE



PRELIMINARY - FOR REVIEW

SANDERSON STEWART

Enduring Community Design

DRAWING HISTORY

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FILE: 18005_05_DETAILS.DWG

PROJECT NO: 18005.05

CAD:

QUALITY ASSURANCE: NAH

-

MOUNTAIN VIEW SUBDIVISION

PROPOSED SITE & UTILITY IMPROVEMENTS
FOR TRACT 1-A OF COS 2748RB & TRACT 2-A OF COS 2621RB

LIVINGSTON, MONTANA

DETAILS

C6.1

PRELIMINARY PLAT OF

MOUNTAIN VIEW SUBDIVISION, PHASES 1, 2, & 3

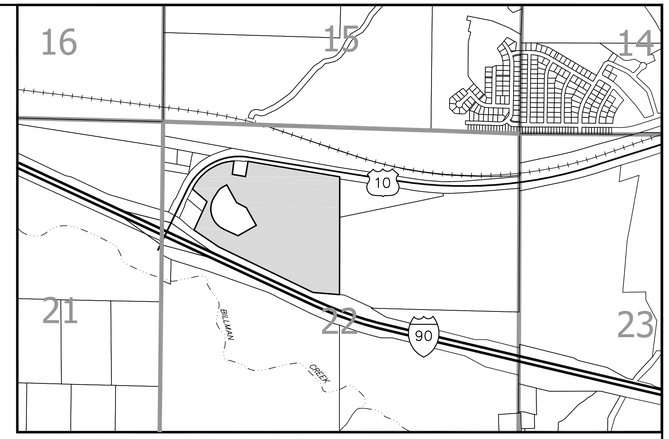
BEING TRACT 1–A OF COS 2748RB AND TRACT 2–A OF COS 2621RB, SITUATED IN THE NW1/4 OF SECTION 22, T. 2 S., R. 9 E., P.M.M., CITY OF LIVINGSTON, PARK COUNTY, MONTANA

PREPARED FOR : LIVINGSTON WEST, LLC AND PRINTINGFORLESS.COM, INC.

JUNE 2022

PREPARED BY : SANDERSON STEWART

BOZEMAN, MONTANA



VICINITY MAP

NOT TO SCALE

NOTES

1. A ten foot (10') wide public utility easement exists on the property side of the public right–of–way, to provide for installation of gas, electric, phone, TV cable, and other utilities, as required. No trees are allowed within the utility easement.

CERTIFICATE OF SURVEYOR

The undersigned, a professional land surveyor licensed in the State of Montana, does hereby certify that between _____ and _____, a survey was performed under their direct supervision for MOUNTAIN VIEW SUBDIVISION, PHASES 1, 2, and 3, and described the same as shown on the accompanying plat and platted in accordance with the provisions of the Montana Subdivision and Platting Act, Section 76–3–101 through 76–3–625, MCA, and the City of Livingston Subdivision Regulations.

DATED this ____ day of _____ , 2022.

SANDERSON STEWART

By: _____
Montana Registration No. _____

CERTIFICATE OF COUNTY TREASURER

I, Kevin J. Larkin, Treasurer of Park County, Montana, do hereby certify that the accompanying Plat has been duly examined and that all real property taxes and special assessments assessed and levied on the land to be subdivided are paid.

DATED this ____ day of _____ , A.D., 2022.

By: _____
Treasurer, Park County, Montana

CERTIFICATE OF GOVERNING BODY

The Chair of the City Commission of the City of Livingston, Montana, does hereby certify that the accompanying Plat has been duly reviewed, and has been found to conform to the requirements of the Subdivision and Platting Act, Section 76–3–101 et. seq. MCA, and the City of Livingston Subdivision Regulations, approves it, and hereby accepts the dedication to public use.

DATED this ____ day of _____ , A.D. 2022.

_____
Chair of the City Commission
City of Livingston, Montana

CERTIFICATE OF CLERK AND RECORDER

I, Maritza H. Reddington, Clerk and Recorder of Park County, Montana, do hereby certify that the foregoing instrument was filed in my office at _____ o'clock, (a.m., or p.m.), this _____ day of _____ , A.D., 2022, and recorded under Document No. _____ , Records of the Clerk and Recorder, Park County, Montana.

By: _____
Clerk and Recorder, Park County, Montana

CERTIFICATE OF DEDICATION

We, the undersigned property owners, do hereby certify that they have caused to be surveyed, subdivided and platted into lots, blocks, roads and parks, as shown on the accompanying plat hereunto annexed, the following described tract of land, to wit:

LEGAL DESCRIPTION:

Tract 1–A of Certificate of Survey No. 2748RB, as recorded in the office of the Clerk and Recorder of Park County, Montana, under Document No. 426634, situated in the NW1/4 of Section 22, T. 2 S., R. 9 E., P.M.M., in the City of Livingston, Park County, Montana and Tract 2–A of Certificate of Survey No. 2621RB, as recorded in the office of the Clerk and Recorder of Park County, Montana, under Document No. 406584, situated in the NW1/4 of Section 22, T. 2 S., R. 9 E., P.M.M., in the City of Livingston, Park County, Montana.

The above described tract of Land is to be known and designated as MOUNTAIN VIEW SUBDIVISION, PHASES 1, 2, and 3, City of Livingston, Park County, Montana; and the lands included in all roads, avenues, rights–of–way, parks, and common areas shown on said plat are hereby granted and donated to the use of the public forever.

CERTIFICATE OF GRANT OF UTILITY EASEMENTS

The undersigned hereby grants unto each and every person or firm, whether public or private, providing or offering to provide telephone, electric, power, gas, cable television, water or sewer service to the public, the right to joint use of an easement for the construction, maintenance, repair and removal of their lines and other facilities, in, over, and under and across each area designated on this plat as "Utility Easement" to have and hold forever.

CERTIFICATE OF WAIVER

We, the undersigned property owners, do hereby waive the right to protest the creation of Special Improvement Districts. In doing so, we do not waive any right to comment on, protest, and/or appeal any assessment formula which may be imposed, if we believe it to be inequitable. This waiver shall be binding upon the heirs, assigns and purchasers of all lots within this Subdivision.

Dated this ____ day of _____ , 2022.

LIVINGSTON WEST, LLC

By: _____

Title: _____

STATE OF MONTANA)
:ss
County of _____)

This instrument was acknowledged before me on _____ , 20____ , by _____ as _____ of LIVINGSTON WEST, LLC.

_____
Notary Public in and for the State of Montana

PRINTINGFORLESS.COM, INC.

By: _____

Title: _____

STATE OF MONTANA)
:ss
County of _____)

This instrument was acknowledged before me on _____ , 20____ , by _____ as _____ of PRINTINGFORLESS.COM, INC.

_____
Notary Public in and for the State of Montana

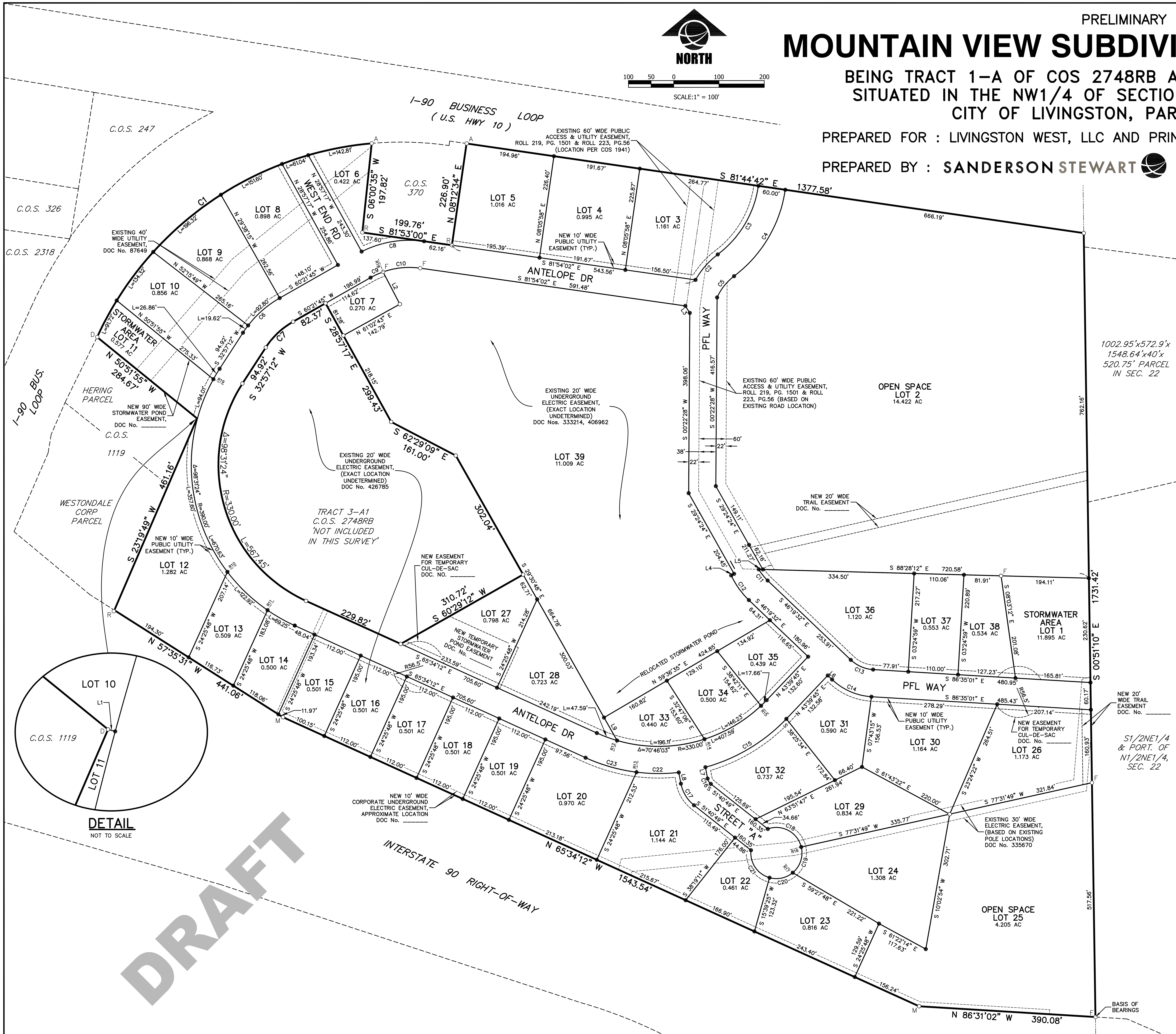
PRELIMINARY PLAT OF

MOUNTAIN VIEW SUBDIVISION, PHASES 1, 2, & 3

BEING TRACT 1–A OF COS 2748RB AND TRACT 2–A OF COS 2621RB, SITUATED IN THE NW1/4 OF SECTION 22, T. 2 S., R. 9 E., P.M.M., CITY OF LIVINGSTON, PARK COUNTY, MONTANA

PREPARED FOR : LIVINGSTON WEST, LLC AND PRINTINGFORLESS.COM, INC. JUNE 2022

PREPARED BY : SANDERSON STEWART BOZEMAN, MONTANA



BASIS OF BEARINGS: THE BASIS OF BEARINGS FOR THIS SURVEY HAS BEEN DERIVED FROM GPS OBSERVATIONS AND IS BASED ON A NAD 83, LAMBERT CONFORMAL CONIC, SINGLE PARALLEL, LOW DISTORTION PROJECTION FOR THE CITY OF BOZEMAN; HAVING A POINT OF ORIGIN AT 46°15'00"N LATITUDE AND 111°15'00"W LONGITUDE WITH A SCALE FACTOR OF 1.000185.

THE GRID TO GROUND COMBINED SCALE FACTOR AT THE SOUTHEAST CORNER OF TRACT 3 OF C.O.S. No. 1941, BEING A REBAR WITH YELLOW CAP MARKED "ALLIED ENG 13174PLS", IS 1.0000188289; THE CONVERGENCE ANGLE IS 0°28'05". DISTANCES ARE INTERNATIONAL FEET. FOR THIS SURVEY, GRID DISTANCE IS ESSENTIALLY EQUAL TO GROUND DISTANCE.

- ○ FOUND SURVEY MONUMENT, REBAR WITH YELLOW CAP '15273'
- ○A FOUND SURVEY MONUMENT, REBAR WITH YELLOW CAP '4955'
- ○D FOUND SURVEY MONUMENT, REBAR WITH YELLOW CAP '10010'
- ○F FOUND SURVEY MONUMENT, REBAR WITH YELLOW CAP '13174'
- ○M FOUND SURVEY MONUMENT, 4"x4" CONCRETE ROW MONUMENT
- ○R FOUND SURVEY MONUMENT, 5/8" REBAR
- ● SET 5/8" X 18" REBAR WITH YELLOW CAP MARKED WITH THE LICENSE NUMBER OF THE UNDERSIGNED LAND SURVEYOR AND "SANDERSON STEWART"

NOTE: ALL CURVES ARE TANGENT AND ALL PROPERTY LINES INTERSECTING CURVES ARE RADIAL UNLESS OTHERWISE NOTED.

DEVELOPED LOTS (35):	36.597 ACRES
STORMWATER AREA LOTS (2):	1.516 ACRES
OPEN SPACE LOTS (2):	18.627 ACRES
AREA OF DEDICATED R.O.W.:	7.501 ACRES
TOTAL AREA:	64.241 ACRES

FINAL PLAT PHASES

PHASE 1 (LOTS 2 – 17, 39)
PHASE 2 (LOTS 1, 18 – 28)
PHASE 3 (LOTS 29 – 38)

CURVE TABLE

Curve #	Delta	Radius	Length	Chord Bearing	Chord Distance
C1	60°20'13"	738.60'	777.80'	N 54°48'47" E	742.36'
C2	23°57'58"	180.00'	75.29'	S 41°09'43" W	74.74'
C3	44°58'38"	230.00'	180.55'	S 30°39'23" W	175.95'
C4	44°57'48"	290.00'	227.58'	S 30°39'47" W	221.79'
C5	29°05'13"	120.00'	60.92'	S 38°36'05" W	60.27'

CURVE TABLE

Curve #	Delta	Radius	Length
C6	27°24'33"	235.00'	112.42'
C7	27°24'33"	175.00'	83.72'
C8	27°42'42"	232.43'	112.42'
C9	10°01'30"	172.43'	30.17'
C10	27°42'42"	172.43'	83.40'
C11	15°07'17"	120.00'	31.67'
C12	21°30'22"	180.00'	67.56'
C13	40°15'30"	78.00'	54.81'
C14	40°15'30"	138.00'	96.96'
C15	30°58'19"	390.00'	210.82'
C16	40°43'36"	20.00'	14.22'
C17	40°43'36"	80.00'	56.86'
C18	95°54'38"	56.50'	94.58'
C19	63°55'46"	56.50'	63.04'
C20	55°25'34"	56.50'	54.66'
C21	80°35'29"	56.50'	79.47'
C22	13°43'39"	390.00'	93.44'
C23	17°14'40"	390.00'	117.38'

LINE TABLE

Line #	Bearing	Distance
L1	N 74°48'11" W	0.82'
L2	N 27°37'25" W	80.40'
L3	S 32°34'23" E	18.40'
L4	S 60°35'36" W	7.18'
L5	N 88°28'12" W	8.98'
L6	S 46°19'32" E	13.06'
L7	S 10°57'13" E	25.38'
L8	S 10°57'13" E	25.95'
L9	S 29°30'48" E	58.22'

RADIAL TABLE

Radial #	Bearing
R10	N 52°39'42" E
R11	N 34°36'13" E
R12	N 16°10'02" E
R13	N 07°11'08" E
R14	N 17°52'55" W
R15	N 43°16'16" W
R16	S 76°18'05" W
R17	N 39°46'09" W
R18	S 19°37'21" E
R19	S 60°59'32" E

SHEET 2 OF 2

18005_05_PP_PROD.DWG 18005.05 6/30/22 CDK

SANDERSON STEWART

Billings
Bozeman
Denver
Fort Collins

July 1, 2022
Project No. 18005.05

PRELIMINARY STORMWATER REPORT FOR THE MOUNTAIN VIEW SUBDIVISION LIVINGSTON, MONTANA

OVERVIEW NARRATIVE

The purpose of this preliminary drainage report is to present a summary of calculations performed to quantify storm drainage improvements required for the Mountain View Major Subdivision in Livingston, Montana. The project is located in the City of Livingston within Park County, Montana. This site is located between Hwy 10 and Hwy 191. The existing area consists of an access roadway, two (2) facilities, grasslands, and the associated utilities. The storm drain system will be designed to meet the requirements in *The City of Livingston Design Standards and Specification Policy* (DSSP) of February 2021. The "Storm Drainage Report Ruedebusch Offsite Street and Utility" dated May 24, 2022 is referenced in this report, which the City of Livingston has.

EXISTING CONDITIONS

The existing topography of the subdivision flows to the southeast to the existing wetland area. There is a temporary detention pond at the end of the asphalt cul-de-sac as shown in the report previously mentioned. This detention pond will be removed as part of the remaining infrastructure proposed. There is also an existing detention pond to the southeast of the Printing for Less facility that treats a portion of their runoff. This pond will be relocated as part of the infrastructure improvements. The remaining land cover surrounding the proposed roadway is generally vacant grassland. Runoff is generally conveyed into the existing shallow ditches and depressions and directed towards the existing wetland to the east of the site. The new development area is hydrologically divided into three watershed areas in its existing state, Existing Watershed 1, 2, and 3 as shown on Exhibit A in Appendix A. Preliminary hydrologic calculations for these watersheds can be found in Appendix B.

PROPOSED CONDITIONS

The proposed improvements of the Mountain View Subdivision include roads, sidewalks, open lots and open space that will house the stormwater facilities. There will be one (1) relocated detention pond and the removal of a temporary basin as part of the full build out of the subdivision. The temporary detention pond was constructed as a part of the Reudebusch Offsite Street and Utility project.

The new development area of the subdivision has been broken into five (5) total basins as shown on Exhibit B in Appendix A. Preliminary hydrologic calculations for these watersheds can be found in Appendix B.

Basin A includes the proposed roadways and sidewalks throughout the southeast side of the subdivision. All other basins include the parcels adjacent to the proposed roadway as seen in Appendix A.

Basin A runoff will be collected in the gutters and conveyed through storm drainage infrastructure toward the proposed detention pond.

Basins B, C, and D runoff will generally drain toward the new street and will be conveyed along swales following the proposed roadway. These swales will convey the runoff towards the proposed detention pond. As development occurs on the lots, the swales will be filled as the developments will be required to mitigate runoff within their site. The new detention basin at the end of the asphalt cul-de-sac will be designed to store and convey the pre-development peak flows from each of these basins.

Basin E is generally "open space" that will remain undeveloped. The runoff will follow existing drainage patterns and diverted to the wetland on the eastern edge of the subdivision.

INLETS

Inlet locations will be designed to capture runoff from the right-of-way area and limit the spread width to less than 9.5-feet for this project's typical section. Bentley's FlowMaster program, which uses the methodology of the FHWA Hec-22 Manual, will be utilized to calculate inlet spacing. This program will be used to calculate the spread width and gutter flow depth at each of the inlets using the calculated peak post-development flow rate from the 25-year storm event, inlet dimensions, and road parameters. The allowable limit for the depth of flow in the curb line is 0.15-feet below the top of curb, but the design will provide at least 0.3-feet. The inlets will be analyzed with a 50% clogging factor.

PIPES

The Manning's equation will be used to analyze and design the storm drain pipes throughout the project. Pipe slopes will be set to maintain a minimum depth of cover of two feet below final grade and the minimum velocity of 3-fps when flowing full. The storm drain pipes will be designed to

convey the peak flow from the 25-year storm event. When the depth of flow in the pipe exceeds full flow capacity, the next larger size pipe will be used.

BASIN/UNDERGROUND DETENTION FACILITY

As mentioned above, a new detention basin is proposed to the northeast of the proposed asphalt cul-de-sac at the end of the street. The proposed detention basin will treat the runoff and limit the discharge flow rate to the 2-year pre-development flow rate from the existing watershed.

The new detention basin will have a maximum side slope steepness of 4:1. Site detention will be calculated using the 10-year design storm allowing for the discharge of the 2-year pre-development flow rate.

MAJOR STORM EVENTS

In the event of a 100-year storm event, the proposed detention basin will overtop and flow to the east with shallow concentrated flow.

Appendices

Appendix A – Watershed Exhibits
Appendix B – Preliminary Hydrology Calculations

Mountain View Subdivision

18005.05

APPENDIX A
Watershed Exhibits

ENDURING COMMUNITY DESIGN

SANDERSON STEWART

EXHIBIT A

PRE–DEVELOPMENT
WITHIN
MOUNTAIN VIEW SUBDIVISION

NORTH

100 50 0 100 200
SCALE:1" = 100'

PREPARED FOR : LIVINGSTON WEST, LLC.
PREPARED BY : SANDERSON STEWART

JUNE 2022
LIVINGSTON, MONTANA

EXHIBIT B

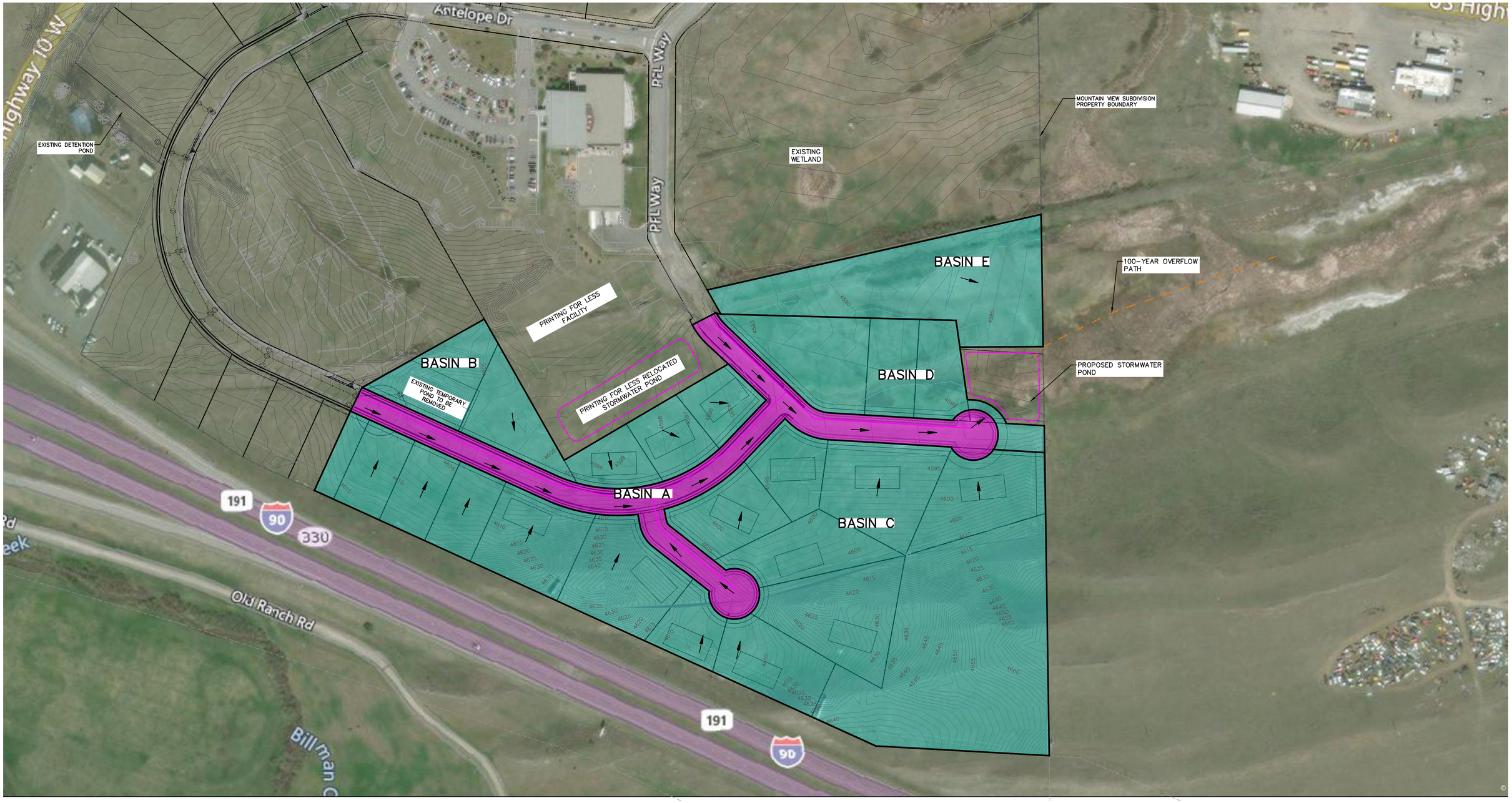
POST–DEVELOPMENT
WITHIN
MOUNTAIN VIEW SUBDIVISION

NORTH

100 50 0 100 200
SCALE:1" = 100'

PREPARED FOR : LIVINGSTON WEST, LLC.
PREPARED BY : SANDERSON STEWART

JUNE 2022
LIVINGSTON, MONTANA



Mountain View Subdivision

18005.05

APPENDIX B
Preliminary Hydrology Calculations

ENDURING COMMUNITY DESIGN

SANDERSON STEWART

HYDROLOGY WORKSHEET

Project: Mountain View Subdivision
Project No.: 18005.05
Date: 06/22/2022

SANDERSON STEWART

PRE DEVELOPMENT/EXISTING BASINS

WS	Tc (hours)	Area (sf)	Area (ac.)	Area Impervious (sf)	Area Gravel (sf)	Area Pervious (sf)	RC	% IC	I_2 (in/hr)	I_{10} (in/hr)	I_{25} (in/hr)	Q_2 Peak Flow (cfs)	Q_{10} Peak Flow (cfs)	Q_{25} Peak Flow (cfs)
1	0.350	804,928	18.48	0	0	804,928	0.20	0%	0.940	1.583	1.840	3.47	5.85	6.80
2	0.450	187,231	4.30	0	0	187,231	0.20	0%	0.796	1.344	1.567	0.68	1.16	1.35
3	0.292	152,213	3.49	0	0	152,213	0.20	0%	1.060	1.782	2.068	0.74	1.25	1.45

POST DEVELOPMENT/PROPOSED BASINS

WS	Tc (hours)	Area (sf)	Area (ac.)	Area Impervious (sf)	Area Gravel (sf)	Area Pervious (sf)	RC	% IC	I_2 (in/hr)	I_{10} (in/hr)	I_{25} (in/hr)	Q_2 Peak Flow (cfs)	Q_{10} Peak Flow (cfs)	Q_{25} Peak Flow (cfs)
A	0.083	134,191	3.08	100,800	0	33,391	0.73	75%	2.423	4.023	4.611	5.42	9.00	10.31
B	0.283	127,336	2.92	0	0	127,336	0.20	0%	1.080	1.816	2.107	0.63	1.06	1.23
C	0.217	658,062	15.11	0	0	658,062	0.20	0%	1.290	2.162	2.502	3.90	6.53	7.56
D	0.317	103,834	2.38	0	0	103,834	0.20	0%	1.004	1.689	1.962	0.48	0.81	0.94
E	0.300	120,848	2.77	0	0	120,848	0.20	0%	1.040	1.750	2.031	0.58	0.97	1.13

July 1, 2022
Project No. 18005.05

PRELIMINARY SEWER AND WATER DESIGN REPORT FOR THE MOUNTAIN VIEW SUBDIVISION LIVINGSTON, MONTANA

SITE NARRATIVE

The purpose of this preliminary report is to summarize the design of the future sanitary sewer and water main installations associated with the Mountain View Major Subdivision in Livingston, Montana. The project will extend sanitary sewer and water, as well as provide water service stubs and sanitary stubs to serve future developments within a portion of the subdivision. The following report will summarize the water and sewer main design and capacity calculations for the water and sewer services to the future development. The "Sewer and Water Design Report Reudebusch Infrastructure Improvements" document dated April 18, 2022, is referenced in this report, which the City of Livingston has.

SEWER

The proposed sewer main includes the installation of approximately 340-feet of 8-inch PVC sewer line, and three (3) 48-inch sanitary sewer manholes. The main will tie-in to an existing sanitary 10-inch sewer main at Antelope Drive with a sanitary sewer manhole connection. The existing 10-inch sanitary sewer system has capacity to handle this additional connection, refer to the "Sewer and Water Design Report Reudebusch Infrastructure Improvements" document dated April 18, 2022.

Capacity calculations will be conducted in accordance with the City of Livingston Design Standards and will include capacity spreadsheets. The 8-inch sewer main capacity at 75-percent full is 350-gal/min using the minimum pipe slope of 0.005 ft/ft.

Using a zoned H.C. designation with 1,000 gal/acre/day, over 5.3 acres, the average daily flow was 3.68 gal/min. A peaking factor of 4.24 was then applied for a peak hourly flow rate of 15.62 gal/min. An infiltration flowrate of 150 gal/acre/day was then used to calculate a total peak hourly flow rate with infiltration at 16.17 gal/min, which is significantly less the 8-inch capacity of 350 gal/min stated above.

WATER

The proposed water system consists of approximately 340-LF of new 8-inch diameter PVC water main, water services, valves, and hydrant as shown on the plans. The proposed 8-inch diameter main will tie-in to an existing 12-inch water main at Antelope Drive with a 12" x 12" x 8" tee.

The existing 12-inch water system has capacity to handle this additional connection, refer to the Sewer and Water Design Report Reudebusch Infrastructure Improvements" documents dated April 18, 2022.

Given the HC, Highway Commercial Zoning, the proposed 5.3 acres serving the proposed area would serve around 53 persons based on wastewater usage of 100 gal/day/person (1,000 gal/day/acre x 5.3 acres)/100 gal per day per person = 53 persons). Using a more conservative value of 100 people, the average daily domestic flow using 127.5 gpd/person per Livingston Design Standards is as follows:

Average Daily Flow = 100 people x 127.5 gal/day/person = 12,750 gal/day = 8.85 gpm

Using a peaking factor of 3.0 per the City of Livingston Design Standards, the Peak Hourly Flow is as follows:

Peak Hourly Domestic Flow = 3.0 x 8.85 = 26.56 gpm (round to 30 gpm)

The water main will be designed using a fire flow of 1500 gpm plus the 30 gpm domestic flow for a total of 1530 gpm.

Bentley's WaterCAD will be used to model the flows for the fully built Mountain View Subdivision. A total flow of 1,530 gpm (1,500 gpm fire flow and 30 gpm peak hour flow), a "C" Factor of 130 (per the City of Livingston Design Standards), and minor losses in the fittings will be used in the WaterCAD calculations. A model overview exhibit and model results will be included.

CONCLUSION

Based on the assumptions provided above and the Sewer and Water Design Report for the Reudebusch Infrastructure Improvements, the proposed 8-inch sanitary sewer and 8-inch water main installation will provide the required capacity for existing and planned developments in the project area. Please contact Bobby Egeberg, PE for any questions pertaining to this preliminary report by email, begeberg@sandersonstewart.com or by phone 406-922-4308.

SANDERSON STEWART

Billings
Bozeman
Denver
Fort Collins

July 1, 2022
Project No. 18005.05

MOUNTAIN VIEW
MAJOR SUBDIVISION
PRELIMINARY PLAT APPLICATION
SUBDIVISION IMPROVEMENTS

The proposed general improvements of the Mountain View Subdivision include streets, street signage, boulevards, sidewalks, and street lighting. All these improvements will be designed to meet the requirements established in the City of Livingston Public Works Design Standards and Specifications Policy including the corresponding Modifications to Montana Public Works Standards. As such all sidewalks will be ADA compliant and all street lighting will meet the requirements of the Night Sky Protection Act.

STREETS & ALLEYS

All the proposed streets and any future alleys will be designed in accordance with the City of Livingston Public Works Standards and Subdivision Regulations. The proposed new streets are designed to the "local" street classification standards approved by the City of Livingston for the Ruedebusch FedEx project currently under construction. For more details see the Civil Engineering Plans.

DRAINAGE STRUCTURES

All proposed stormwater drainage structures will be designed in accordance with the City of Livingston Public Works Standards and applicable DEQ Circulars. For more information and details see Appendix A: Preliminary Stormwater Report and Civil Engineering Plans.

SIGNS

The proposed Mountain View Subdivision will meet the standards established by the City of Livingston Public Works Standards and Manual on Uniform Control Devices.

SIDEWALKS

All the proposed sidewalks will be designed in accordance with the City of Livingston Public Works Standards and Subdivision Regulations. The proposed new sidewalks will be designed to match the specifications and standards approved by the City of Livingston for the Ruedebusch FedEx project currently under construction. For more information see the Civil Engineering Plans.

STREETLIGHTS

All the proposed street lighting will be designed in accordance with the City of Livingston Public Works Standards, Subdivision Regulations, and the Night Sky Protection Act. The proposed new streetlights will be installed to match the specifications and standards approved by the City of Livingston for the Ruedebusch FedEx project currently under construction. For more information see the Civil Engineering Plans.

SOLID WASTE FACILITIES

Per the Administrative Rules of Montana17.36.309, the Mountain View Subdivision tenants will store solid waste in adequate containers and will contract with the City of Livingston Solid Waste Department to be removed frequently to prevent a nuisance.

FIRE HYDRANTS

All the required fire hydrants will be designed and installed in accordance with the City of Livingston Public Works Standards and Subdivision Regulations. For more details see the Civil Engineering Plans.

SEWER, WATER & STORM FACILITIES

All the proposed sewer, water, and stormwater facilities will be designed and installed in accordance with the City of Livingston Public Works Standards, Subdivision Regulations, and applicable DEQ Circulars. The new subdivision wet utilities will be designed and installed to integrate with the existing City services and those approved by the City of Livingston for the Ruedebusch FedEx project currently under construction. For more information and details see Appendix A: Preliminary Stormwater Report, Appendix B: the Civil Engineering Plans.

MAIL DELIVERY

Mail deliver services will be provided for the proposed Mountain View Subdivision on a contract basis from the United States Postal Service. The local USPS representative responding to a request for comment indicated that the subdivision would need to provide a central mailbox bank. For more details see Appendix H: Private Service Providers Review.

SANDERSON STEWART

Billings
Bozeman
Denver
Fort Collins

June 30, 2022

Mr. Jim Woodhull
Planning Director
City of Livingston
220 E Park St
Livingston, MT 59047

Reference: Mountain View Subdivision, Livingston, Montana
Project No. 18005.05

Dear Mr. Woodhull:

The purpose of this letter is to evaluate traffic impacts for development of the Mountain View Subdivision in Livingston, Montana. Mountain View Subdivision is located east and south of Hwy 10 just north of the I-90 interchange at exit 330.

Existing Conditions

Existing Conditions (2022) traffic counts were collected by Sanderson Stewart at the West Park Street/North 5th Street intersection on Thursday, January 27, 2022, in support of another area study. Traffic counts were collected by Marvin & Associates at the West Park Street/Hwy 10/North 7th Street intersection on Monday, January 16, 2017, in support of the Transportation Study Update performed for the City of Livingston. It was found by evaluating historical MDT count data in the area that a growth rate of approximately 2% was experienced on area streets between 2017 and 2021. Therefore, the counts from West Park Street/Hwy 10/North 7th Street were scaled up to represent 2022 values by applying an annual growth rate of 2% for 5 years. Intersection peak hours were found to be from 7:30 to 8:30 AM and 4:45 to 5:45 PM at both intersections.

Both intersections are controlled with traffic signals with protected/permissive left-turn phasing only on the northbound/eastbound approaches on West Park Street. All other approaches have permissive-only left turns. Both intersections have an at-grade rail crossing across the western legs, with queuing space for only approximately 2 vehicles between the stop bar and the rail crossing.

Capacity calculations were performed for both intersections using Synchro, Version 11, which is based on the Highway Capacity Manual (HCM) 6th Edition methodologies. Level of service (LOS) is defined as a quality measure describing operational conditions within a traffic stream, generally in terms of such service measures as speed and travel time, freedom to maneuver, traffic interruptions, comfort, and convenience. LOS is a qualitative measure of the performance of an intersection with values ranging from LOS A, indicating good operation and low vehicle delays, to LOS F, which indicates congestion and longer vehicle delays. LOS C is generally considered the minimum acceptable threshold in Montana communities, though exceptions are made in some cases.

Capacity results, as shown in Table 1 below, show that both intersections currently operate at LOS C or better on all approaches. Projected 95th percentile queues are lengthy on all approaches at the West Park Street/Hwy 10/North 7th Street intersection during the PM peak hour, except for the westbound North 7th Street approach. Southbound and eastbound queues at both the West Park Street/North 5th Street and West Park Street/Hwy 10/North 7th Street intersections, respectively, are projected to extend across the at-grade rail crossings. Hwy 10 provides a stop bar in advance of the crossing for eastbound vehicles to queue, but there are no such markings provided southbound on North 5th Avenue to prevent vehicles stopping across the railroad tracks.

Table 1: Existing Conditions (2022) Capacity Calculations Summary

Intersection	Approach	Existing (2022)					
		AM Peak			PM Peak		
		Avg Delay (s/veh)	LOS	95th % Queue (veh)	Avg Delay (s/veh)	LOS	95th % Queue (veh)
Intersection Control		*Signalized*					
West Park Street & North 5th Street	EB	6.5	A	4	4.9	A	5
	WB	10.4	B	6	9.2	A	8
	NB	16.8	B	2	20.8	C	4
	SB	21.4	C	5	23.0	C	3
	Intersection	13.7	B	--	10.9	B	--
Intersection Control		*Signalized*					
West Park Street & Hwy 10	EB	23.4	C	4	23.6	C	14
	WB	22.3	C	3	16.8	B	2
	NB	4.2	A	6	12.4	B	14
	SB	6.4	A	7	14.0	B	12
	Intersection	8.4	A	--	15.9	B	--

Trip Generation & Traffic Assignment

This analysis utilized Trip Generation, 11th Edition, published by the Institute of Transportation Engineers (ITE), which is the most widely accepted source in the United States for determining trip generation projections. These projections are used to analyze the impacts of a new development on the surrounding area.

The applicant does not have a development plan in regard to the future uses and intensities. The following land use and intensity assumptions were made solely for the purposes of this trip generation analysis. It is assumed that the Mountain View Subdivision could contain 7 lots (6.79 total acres) of highway commercial uses to include a small hotel, two gas stations/convenience stores, one coffee shop, and one fast-food restaurant. It is also assumed that the site could include 11 lots (6.63 total acres) of light industrial/commercial uses with 60% lot coverage, which equates to approximately 173,280 square-feet. Lastly, the proposed subdivision could include 13 lots (10.45

total acres) of multi-family residential use with one 4-plex building per lot, for 52 total residential units and 104 total bedrooms.

Common industry sizes of the highway commercial land uses were evaluated and used to make assumptions about the anticipated sizes of the hotel, gas station/convenience store, coffee shop, and fast-food developments. It was found that the average gas station in the Livingston area has 10 fueling stations, so trips for a total of 20 stations were calculated since two gas stations are proposed to be built.

For the purposes of this analysis, Land Use Code 310 – Hotel, Land Use Code 934 – Fast-Food Restaurant with Drive-Thru Window, Land Use Code 937 – Coffee/Donut Shop with Drive-Thru Window, and Land Use Code 945 – Convenience Store/Gas Station were utilized to project trip generation for the highway commercial portion of the site. Land Use Code 110 – General Light Industrial was utilized to project trip generation for the light industrial/commercial lots. Land Use Code 220 – Multifamily Housing (Low-Rise) was utilized to project trip generation for the residential lots. Table 2 on the following page presents the results of the trip generation calculations.

Trip generation projections provide an estimate of the total number of trips that would be generated by a proposed development, but adjustments must often be made to estimate the net number of new external trips. These adjustments account for internal capture and pass-by trips, as well as trips made by alternate modes.

Internal capture (IC) trips do not have origins or destinations external to a project site and therefore do not have an impact on external traffic operations. Due to the mixed-use nature of the highway commercial and residential portions of the site, IC trips were calculated among those land uses.

Pass-by trips are made as intermediate stops on the way from a point of origin to a primary trip destination and were calculated for the convenience store/gas station, coffee shop, and fast-food land uses.

Trips made by alternate modes (walking, biking, transit) are not anticipated for this development due to its location and lack of multi-modal accessibility on Highway 10.

With reductions for IC and pass-by trips, the site is projected to generate 4,189 new external weekday trips with 474 trips (285 entering/189 exiting) during the AM peak hour and 323 trips (125 entering/198 exiting) during the PM peak hour.

The trip distribution for this study was calculated based on an analysis of existing traffic patterns in the study area. It was found that 50% of trips would be expected to travel to/from the east on Highway 10 and access one or both study intersections on West Park Street.

Table 2: Mountain View Subdivision Trip Generation Summary

Land Use	Independent Variable		Average Weekday			AM Peak Hour			PM Peak Hour		
	Intensity	Units	total	enter	exit	total	enter	exit	total	enter	exit
Highway Commercial											
Hotel[1]	50	Rooms	400	200	200	23	13	10	30	15	15
Internal Capture Trips**			202	95	107	3	1	2	19	11	8
Convenience Store/Gas Station[2]	20	Veh Fueling Positions	5302	2651	2651	321	161	160	368	184	184
Internal Capture Trips**			1152	536	616	35	14	21	101	54	47
Pass-By Trips (Avg. Rate = 56%)**			2324	1184	1140	160	82	78	150	73	77
Coffee/Donut Shop w/ Drive-Thru Window[3]	2	1000 SF GFA	1067	534	533	172	88	84	78	39	39
Internal Capture Trips**			386	210	176	17	11	6	33	14	19
Pass-By Trips (Avg. Rate = 49%)**†			334	159	175	76	38	38	22	12	10
Fast-Food Restaurant w/ Drive-Thru Window[4]	5	1000 SF GFA	2337	1169	1168	223	114	109	165	86	79
Internal Capture Trips**			845	460	385	22	14	8	70	30	40
Pass-By Trips (Avg. Rate = 49%)**			731	347	384	98	49	49	46	27	19
Light Industrial/Commercial											
General Light Industrial[5]	173.280	1000 SF GFA	844	422	422	128	113	15	113	16	97
Residential											
Multifamily Housing (Low-Rise)[6]	52	Dwelling Units	350	175	175	21	5	16	27	17	10
Internal Capture Trips**			137	60	77	3	0	3	17	11	6
Total Gross Trips			**10300**	**5151**	**5149**	**888**	**494**	**394**	**781**	**357**	**424**
Total Internal Capture Trips			**2722**	**1361**	**1361**	**80**	**40**	**40**	**240**	**120**	**120**
Total Pass-By Trips			**3389**	**1690**	**1699**	**334**	**169**	**165**	**218**	**112**	**106**
Total New External Trips			**4189**	**2100**	**2089**	**474**	**285**	**189**	**323**	**125**	**198**

(1) Hotel - Land Use 310* — Units = Rooms
- Average Weekday: Average Rate = 7.99 (50% entering/50% exiting)
- Peak Hour of the Adjacent Street, One Hour between 7 and 9 AM: Average Rate = 0.46 (56% entering/44% exiting)
- Peak Hour of the Adjacent Street, One Hour between 4 and 6 PM: Average Rate = 0.59 (51% entering/49% exiting)

(2) Convenience Store/Gas Station - Land Use 945* — Units = Vehicle Fueling Positions
- Average Weekday: Average Rate = 265.12 (50% entering/50% exiting)
- Peak Hour of the Adjacent Street, One Hour between 7 and 9 AM: Average Rate = 16.06 (50% entering/50% exiting)
- Peak Hour of the Adjacent Street, One Hour between 4 and 6 PM: Average Rate = 18.42 (50% entering/50% exiting)

(3) Coffee/Donut Shop with Drive-Thru Window - Land Use Code 937* — Units = 1000 SF GFA
- Average Weekday: Average Rate = 533.57 (50% entering/50% exiting)
- Peak Hour of the Adjacent Street, One Hour between 7 and 9 AM: Average Rate = 85.88 (51% entering/49% exiting)
- Peak Hour of the Adjacent Street, One Hour between 4 and 6 PM: Average Rate = 38.99 (50% entering/50% exiting)

(4) Fast-Food Restaurant with Drive-Thru Window - Land Use 934* — Units = 1000 SF GFA
- Average Weekday: Average Rate = 467.48 (50% entering/50% exiting)
- Peak Hour of the Adjacent Street, One Hour between 7 and 9 AM: Average Rate = 44.61 (51% entering/49% exiting)
- Peak Hour of the Adjacent Street, One Hour between 4 and 6 PM: Average Rate = 33.03 (52% entering/48% exiting)

(5) General Light Industrial - Land Use 110* — Units = 1000 SF GFA
- Average Weekday: Average Rate = 4.87 (50% entering/50% exiting)
- Peak Hour of the Adjacent Street, One Hour between 7 and 9 AM: Average Rate = 0.74 (88% entering/12% exiting)
- Peak Hour of the Adjacent Street, One Hour between 4 and 6 PM: Average Rate = 0.65 (14% entering/86% exiting)

(6) Multifamily Housing (Low-Rise) - Land Use 220* — Units = Dwelling Units
- Average Weekday: Average Rate = 6.74 (50% entering/50% exiting)
- Peak Hour of the Adjacent Street, One Hour between 7 and 9 AM: Average Rate = 0.40 (24% entering/76% exiting)
- Peak Hour of the Adjacent Street, One Hour between 4 and 6 PM: Average Rate = 0.51 (63% entering/37% exiting)

**Trip Generation, 11th Edition*, Institute of Transportation Engineers, 2021

***Trip Generation Handbook, 3rd Edition*, Institute of Transportation Engineers, 2017

†Pass-By Trips Average Rate for Coffee/Donut Shop w/ Drive-Through Window is not included in ITE Pass-By data, therefore 49% Pass-By Average Rate for Fast Food Restaurant w/ Drive-Through was selected

Existing + Site Conditions

Existing + Site projections were calculated by adding projected site trips to existing intersection volumes, and Existing + Site capacity calculations were performed again using Synchro, Version 11. Those results are shown in Table 3 below.

Existing + Site capacity results were very similar to Existing Conditions (2022) results, with the largest impact being to the projected eastbound queue on Highway 10 during the PM peak hour, which is projected to increase from 14 to 20 vehicles.

Table 3: Existing + Site Capacity Calculations Summary

Intersection	Approach	Existing + Site					
		AM Peak			PM Peak		
		Avg Delay (s/veh)	LOS	95th % Queue (veh)	Avg Delay (s/veh)	LOS	95th % Queue (veh)
Intersection Control		*Signalized*					
West Park Street & North 5th Street	EB	7.3	A	5	5.3	A	6
	WB	11.9	B	8	9.9	A	9
	NB	17.0	B	3	20.9	C	5
	SB	22.3	C	5	23.3	C	3
	Intersection	14.4	B	--	11.2	B	--
Intersection Control		*Signalized*					
West Park Street & Hwy 10	EB	24.7	C	7	27.8	C	20
	WB	21.0	C	3	15.7	B	2
	NB	6.3	A	7	16.9	B	14
	SB	10.0	B	9	19.2	B	12
	Intersection	11.7	B	--	20.8	C	--

Conclusions & Recommendations

Projected queuing during the PM peak hour at the West Park Street/Hwy 10/North 7th Street intersection stretches to North 6th Street on the north leg, through the North 8th Street intersection on the south leg, and past the U-Haul access driveway on Highway 10 (west leg). Queues on West Park Street are the same both with and without trips from the proposed Mountain View Subdivision, and do not reach any other signalized intersections. With the addition of Mountain View Subdivision trips, approximately 6 vehicles are projected to be added to the eastbound queue during the PM peak hour, with 3 vehicles added during the AM peak hour. A maximum of two vehicles are projected to be added to existing queues at the West Park Street/North 5th Street intersection during both peak hours.

Regardless of the potential development of Mountain View Subdivision, safety should be monitored at both intersections, particularly on the legs with at-grade railroad crossings, and steps should be taken to prevent vehicles from stopping across the railroad tracks if necessary.

If you have any questions or concerns, please feel free to contact me at 406-922-4306 or jstaszcuk@sandersonstewart.com.

Sincerely,

Joey Staszcuk, PE, PTOE, RSP1
Senior Engineer | Community Transportation Studio Manager

ARS/ajd

Enc

P:18005_05_Livingston_West_LLC_Major_Subdivision_6.30.2022

Printing for Less

Wetland Delineation Report

Prepared By:

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09/13/2019

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Appendix A – Project Area Maps

Appendix B – Mapped Wetland Boundary

Appendix C – Wetland Determination Data Forms

Appendix D – Site Photographs

Introduction

A routine wetland delineation was conducted by Sundog Ecological Inc., on June 19th and 26th, 2019 on behalf of property owner, Printing for Less (PFL), to verify wetland boundaries east of PFL Way. The purpose of this wetland delineation was to investigate the project area, identify areas meeting technical guidelines for wetlands, delineate the extent of wetlands within the project area and to classify these wetland habitats. This report describes methodologies used, summarizes results of wetland investigations, and provides technical documentation for all delineated wetlands within the project area. Figures referred to in text are included in Appendices at the end of the report.

Site Description

The PFLWetland Delineation site is located in the northwest quarter of Section 22, Township 2 South, Range 9 East, approximately 2.15 miles west of Livingston, Montana. The property is located immediately east of the Printing for Less headquarters on PFL Way. Upland communities are comprised of pasture grasses, Montana State Listed noxious weeds, small shrubs and other weedy species. Wetlands communities are dominated by mixed grasses, rushes, sedges and cattails. Four wetland types and one upland type were identified within project boundaries.

Figure 1: Location of the Printing for Less Wetland Delineation Site relative to US Interstate 90 and MT Highway 10.

Directions to site from Bozeman: From North 7th Avenue take Interstate 90 east for 22.7 miles, exiting at Livingston Exit 330. Turn left onto 1-90 Business Loop/MT Highway 10 for 0.5 miles. Turn right onto PFL Way, the project area is on the left.

Waterbodies and Waterways

While there are no direct waterbodies or streams on the PFL wetland site, there is a stream that flows west from the north side of the Interstate 90 business loop to the south side and eventually discharges into the wetland in the northeast corner of the site. A review of aerial photos shows that this water

appears to be diverted from Fleshman Creek (north of the site). Other waterways in the area include Billman Creek (south of the site) and the Yellowstone River (east of the site).

Methods

This wetland delineation was conducted using the routine on-site-approach in accordance with standard practices outlined in the 1987 Army Corps of Engineers (ACOE) Wetland Delineation Manual (Environmental Laboratory 1987) and by Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast - Version 2.0 (ACOE 2010). The study evaluated the presence or absence of indicators of three wetlands parameters described in the ACOE Wetland Delineation Manual. Under the delineation procedures outlined in this manual, an area must exhibit characteristic wetland hydrology, hydric soils, and hydrophytic vegetation to be considered a wetland. If field investigation determines that any of the three parameters are not satisfied, the area does not usually qualify as a wetland. Wetlands were classified according to the Cowardin classification system (Cowardin *et al*., 1979). Non-wetland water bodies such as streams were classified according to flow regime (perennial, seasonal, etc.) and substrate (rock bottom, unconsolidated bottom, etc.) according to the Cowardin system (Cowardin *et al*., 1979).

Prior to conducting field studies, available background and supplementary reference materials were reviewed, including aerial photographs and maps from: Google Earth Pro, National Wetlands Inventory, Montana Natural Heritage Program, the Park County Soil Survey, Web Soil Survey, the National Wetlands Plant List, plat and topographic maps. Site maps used for assessment of the Printing for Less wetland delineation site are included in Appendix A.

As part of a delineation report, data forms and technical information are required by the ACOE to document the three parameters for any area determined to be wetland. A total of seventeen (17) data points were observed. Wetland boundaries were drawn utilizing field data, aerial photographs and topographic boundaries. Wetland boundaries were surveyed using survey grade GPS equipment and data point locations were collected using a resource grade handheld GPS unit. Exact accuracy of maps and locations of boundaries and data points is limited by the accuracy of data collection devices (less than 30 cm for survey grade and 0.5 to 2 meters for handheld). Data forms for sample locations are provided in Appendix B. Representative photographs of sample locations and delineated wetlands are provided in Appendix D.

Results

The following discussion provides an overview of each of the four wetland components inventoried at the PFL wetland delineation site. In June 2019, four wetland types were identified and delineated within the 25-acre project boundary. All potential areas of impact were assessed for dominant hydrophytic vegetation, hydric soils, and evidence of wetland hydrology. Wetland areas outside of the project limits were not assessed. Overall, 17 (seven matched sets) data points were investigated to determine the wetland/upland boundary within the project area. Data points were placed along the wetland/upland boundary and in areas where vegetation and topographic changes appeared across the landscape.

The location of identified wetlands, upland sample points and wetland sample points are shown on Figure 1 (Appendix B). Data forms for sample locations can be found in Appendix C. Photographs of sample locations are located in Appendix D.

Vegetation

Approximately 34 plant species were identified within the proposed project site (Table 1). Plants observed at sample locations are listed on their respective data forms. Of the plant species observed, four are listed as Montana State noxious weeds. Three priority 2B species observed are: whitetop (*Cardaria draba*), Canada thistle (*Cirsium arvense*) and gypsyflower (*Cynoglossum officinale*); which are widespread on the property. One priority 3 species, Russian olive (*Elaeagnus angustifolia)*, was observed in a few isolated locations. A weed management plan should be developed and implemented for this site.

Uplands

A total of 7 upland sample points (paired with 9 wetland sample points) were documented within the project area and are shown on Figure 1, Appendix B. These sample points were used to assist in establishing wetland boundaries and to determine/verify upland areas. Taken throughout the project limits, sample points varied throughout upland areas. Uplands generally occur in areas of slightly higher topography and in some cases, convex surfaces. Vegetation within the uplands included a mix of hydrophytic and upland species but facultative upland (FACU) generally dominated the overall cover. Common species noted in the uplands included: smooth brome, redtop and Kentucky bluegrass. Soils ranged from a grey, very dark greyish brown to dark brown and typically lacked redox concentrations. Soil textures varied, but generally ranged from a silty clay loam to silty loam.

Delineated Wetlands

Four wetland types, covering 13-acres were delineated within the PFL wetland delineation site boundaries.

Wetland Type 1 is dominated by cattails (*Typha latifolia)* and occupies 1.75 acres of wetlands. Wetland Type 1 areas are generally located along the east property boundary, extending west of the property. Cattails were observed in both the north and central wetland cells (1.43 and 0.32 acres, respectfully).

Wetland Type 2 is a willow dominated scrub-shrub community with a *Salix exigua* (narrowleaf willow) overstory and a mixed *Juncus/Agrostis (J. balticus, A. alba*) understory. Wetland Type 2 accounts for 0.35 wetland acres located along north (0.21 acres) and south sides (0.14 acres) of the abandoned railroad grade.

Wetland Type 3 is dominated by a mixed *Juncus* community (*J. balticus, J. effusus)* with lesser amounts of reed canary grass (*Phalaris arundinacea*), redtop (*A. alba) and* Rocky Mountain iris (*Iris missouriensis*). Wetland Type 3 occupies 4.02 acres.

Wetland Type 4 is the largest wetland community, covering 6.68 acres (5.11, 1.07 and 0.5 acres in the north, central and south complexes, respectively). This community is comprised of redtop, Rocky Mountain iris, common rush, reed canary grass and Baltic rush.

Table 1: Plant species observed at the Printing for Less Wetland Delineation Site.

Scientific Name	Common Name	Indicator Status
Achillea millefolium	common yarrow	FACU
Agrostis alba	redtop	FAC
Agroypron intermedium	intermediate wheatgrass	UPL
Alopecurus arundinaceus	Garrison creeping foxtail	FAC
Bromus inermis	smooth brome	UPL
Cardaria draba	whitetop	UPL
Carex nebrascensis	Nebraska sedge	OBL
Carex stipata	awlfruit sedge	OBL
Cirsium arvense	Canada thistle	FACU
Cynoglossum officinale	gypsyflower	FACU
Dactylis glomerata	orchard grass	FACU
Elaeagnus angustifolia	Russian olive	FAC
Eleocharis palustris	common spikerush	OBL
Elymus lanceolatus	streambank wheatgrass	FACU
Equisetum hyemale	rough horsetail	FACW
Helianthus annus	common sunflower	FACU
Hordeum jubatum	foxtail barley	FAC
Iris missourienssis	Rocky Mountain iris	FACW
Juncus balticus	Baltic rush	FACW
Juncus effusus	common rush	FACW
Mentha arvesis	field mint	FACW
Pascopyrum smithii	western wheatgrass	FACU
Poa pratensis	Kentucky bluegrass	FAC
Rosa woodsii	Wood's rose	FACU
Salix exigua	narrowleaf willow	FACW
Schoenoplectus pungens	common threesqure	OBL
Solidago canadensis	Canada goldenrod	FACU
Sonchus arvensis	field sowthistle	FACU
Sporobolus airoides	alkali sacaton	FAC
Stipa viradula	green needlegrass	UPL
Symphoricarpos albus	common snowberry	FACU
Taraxacum officinale	common dandelion	FACU
Triglochin maritima	seaside arrowgrass	OBL
Typha latifolia	broadleaf cattail	OBL

Table 2: Wetland characteristics identified at the Printing for Less Wetland Delineation Site.

Site	General Location	Size (Acres)	Cowardin Class	Primary Hydrology	Dominant Vegetation
Upland	Throughout project area	12.00	none	none	smooth brome, Kentucky bluegrass, common snowberry
Wetland Type 1	Throughout project area	1.75	PEMA	ground and surface water	cattails, common rush
Wetland Type 2	Throughout project area	0.35	PSS	ground and surface water	narrowleaf willow, redtop, Baltic rush
Wetland Type 3	Throughout project area	4.22	PEMA	ground and surface water	common rush, Baltic rush, Rocky Mountain iris, redtop
Wetland Type 4	Throughout project area	6.68	PEMA	ground and surface water	redtop, Rocky Mountain iris, reed canary grass, common rush, Baltic rush

Soils

One soil unit was observed within the project limits of the PFL wetland delineation site, the Reedpoint-Tanna-Ethridge complex. This soil complex is variable with loamy, sandy clay loam and silty clay loam soils. Soil matrix observations for hues were 7.5 YR and 10YR, matrix values ranged from 2 to 5 and chromas were 2 or less. Redox concentrations were generally common throughout most observed wetland soils within the project area. Redox values ranged from 4 to 6 and chromas were 3 or less. Hydric soil indicators were generally Hydrogen Sulfide odor (A4), depleted matrix (F3) or redox dark surface (F6). Detailed soil descriptions for each wetland and upland sample point are provided on the wetland delineation data forms, in Appendix C.

Hydrology

Typical conditions for the region were observed during field sampling. Primary indictors of wetland hydrology were surface water present (A1), saturation (A3) or Hydrogen Sulfide odor (C1). Most wetlands sites also met wetland hydrology indicators based on secondary indicators of geomorphic position (D2) and positive FAC-Neutral test (D5). Depressional wetlands and swales are supported by high groundwater or seasonal groundwater expressed at or near ground surface. Hydrologic indicators at sample locations are documented on their respective data forms located in Appendix C.

Wetland Boundaries

Wetland boundaries were generally readily identifiable due to changes in topography, shifts in vegetation structure or changes in vegetation dominance from FAC to wetter (FACW, OBL) or drier (FACU, UPL) species, changes in hydrology and/or changes in soil types. Topographic breaks were frequently used to help identify wetland boundaries in depressions and swales. In some areas, shifts in plant species composition toward drier species such as smooth brome (*Bromus inermis*) and common snowberry (*Symphoricarpos albus)* also assisted with boundary determinations. When Kentucky bluegrass, redtop or Baltic rush were common in both wetland and upland sample plots, subsurface explorations to assess soil and hydrology assisted in identifying boundaries.

Wetland Impacts

This wetland delineation report for PFL provides baseline information that will assist in developing practices to minimize wetland impacts during development.

Threatened and Endangered Species

A review of USFWS Information, Planning and Conservation System database for the site listed the Canada Lynx as threatened and the North American Wolverine as proposed threatened. Development within the PFL site is not expected to impact any of these species as there are no critical habitats for these species within the project area.

Cultural Resources and Historic Structures

There are no cultural resources, historic or other structures that would be impacted by development activities at the PFL wetland delineation site.

Summary

Four wetland types and one upland type were identified within the PFL wetland delineation site project boundaries totaling 13 and 12 acres, respectively. The largest wetland area accounts for 6.68-acres of mixed *Agrostis* community that is abundant throughout the site. Three wetlands were classified as palustrine emergent wetlands (9.65 acres) and one wetland was classified as shrub-scrub (0.35 acres).

References

Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of wetlands and deepwater habitats of the United States. FWS/OBS-79/31. U.S.D.I Fish and Wildlife Service. Washington D.C.

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Websites

Montana Department of Agriculture website. Accessed July 2019 at https://agr.mt.gov/Weeds

Montana Natural Heritage Program website. Accessed in July 2019 at http://mtnhp.org/mapviewer

USDA, Natural Resources Conservation Service Web Soil Survey. Park County, Montana. Accessed July 2019 at: http://websoilsurvey.nrcs.usda.gov/app/

U.S. Fish and Wildlife Service National Wetlands Inventory website. Accessed in July 2019 at: https://www.fws.gov/wetlands/data/mapper.html.

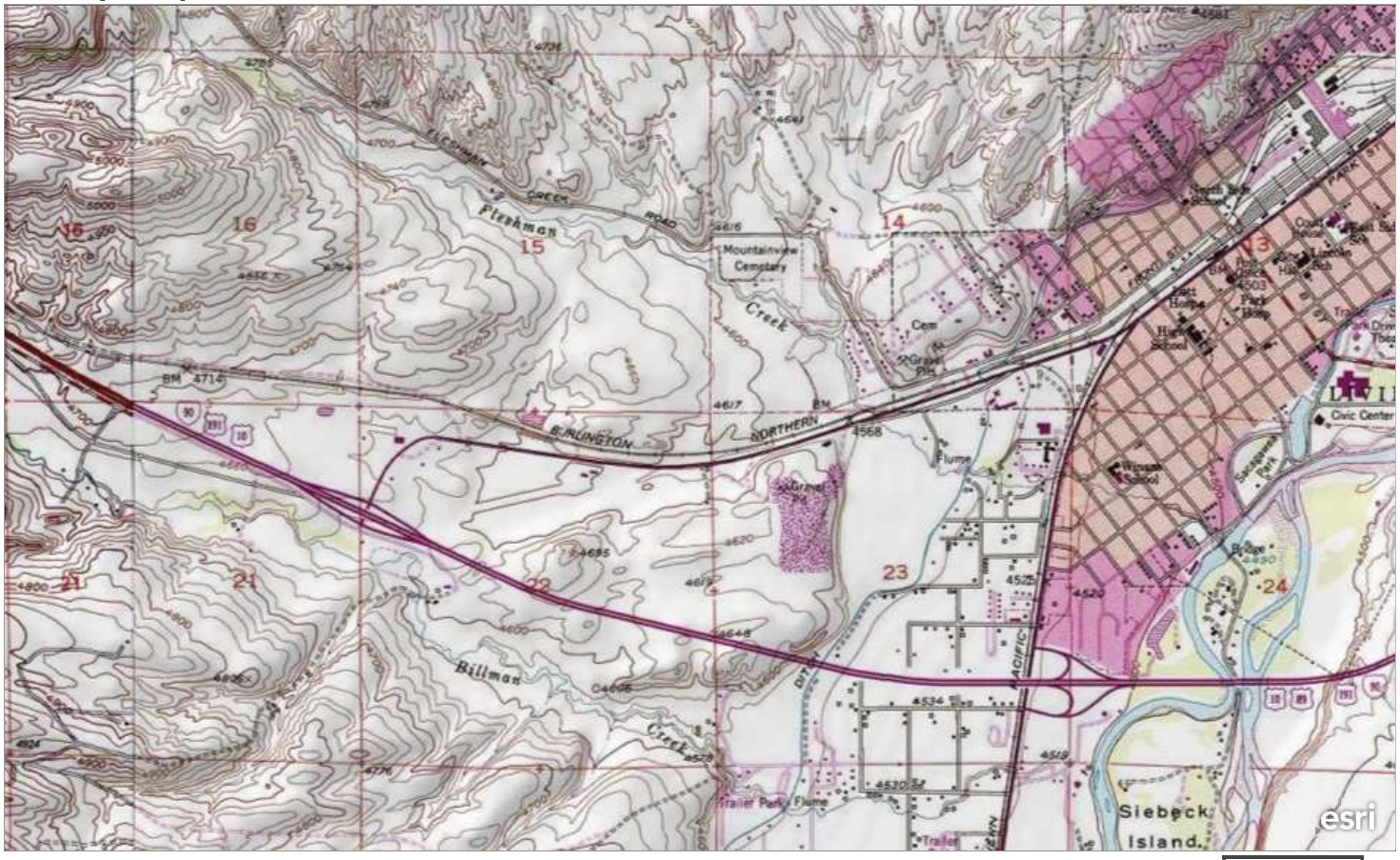
US Fish & Wildlife Service. Information for Planning and Conservation. Accessed in July 2019 at: https://ecos.fws.gov/ipac/

Appendix A

Aerial Overview of the Printing for Less Wetland Delineation Site
Topographic Overview of the Printing for Less Wetland Delineation Site
National Wetland Inventory – Mapped Wetlands of the Printing for Less Wetland Delineation Site
Montana Natural Heritage Program - Mapped Wetlands of the Printing for Less Wetland Delineation Site
Soils of the Printing for Less Wetland Delineation Site in Park County, MT


PFL Way
90
Prairie Dog Rd
Google Earth
© 2018 Google
N
1000 ft

USA Topo Maps



This map features detailed USGS topographic maps for the United States at multiple scales.

U.S. Fish and Wildlife Service
National Wetlands Inventory

Printing for Less

July 23, 2019

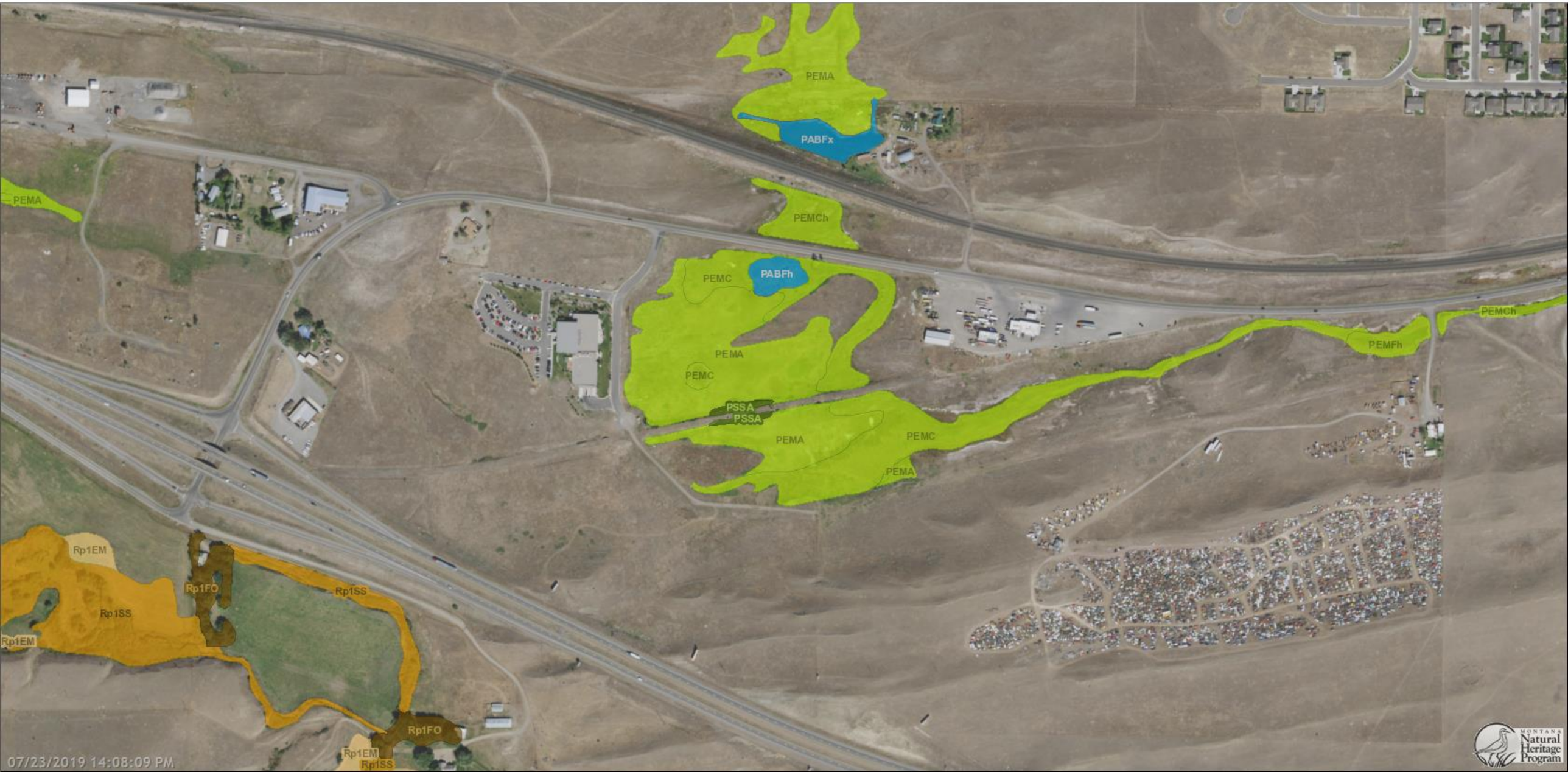
Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

NHP Map Viewer

Latitude	Longitude
45.64766	-110.58997
45.65676	-110.61551



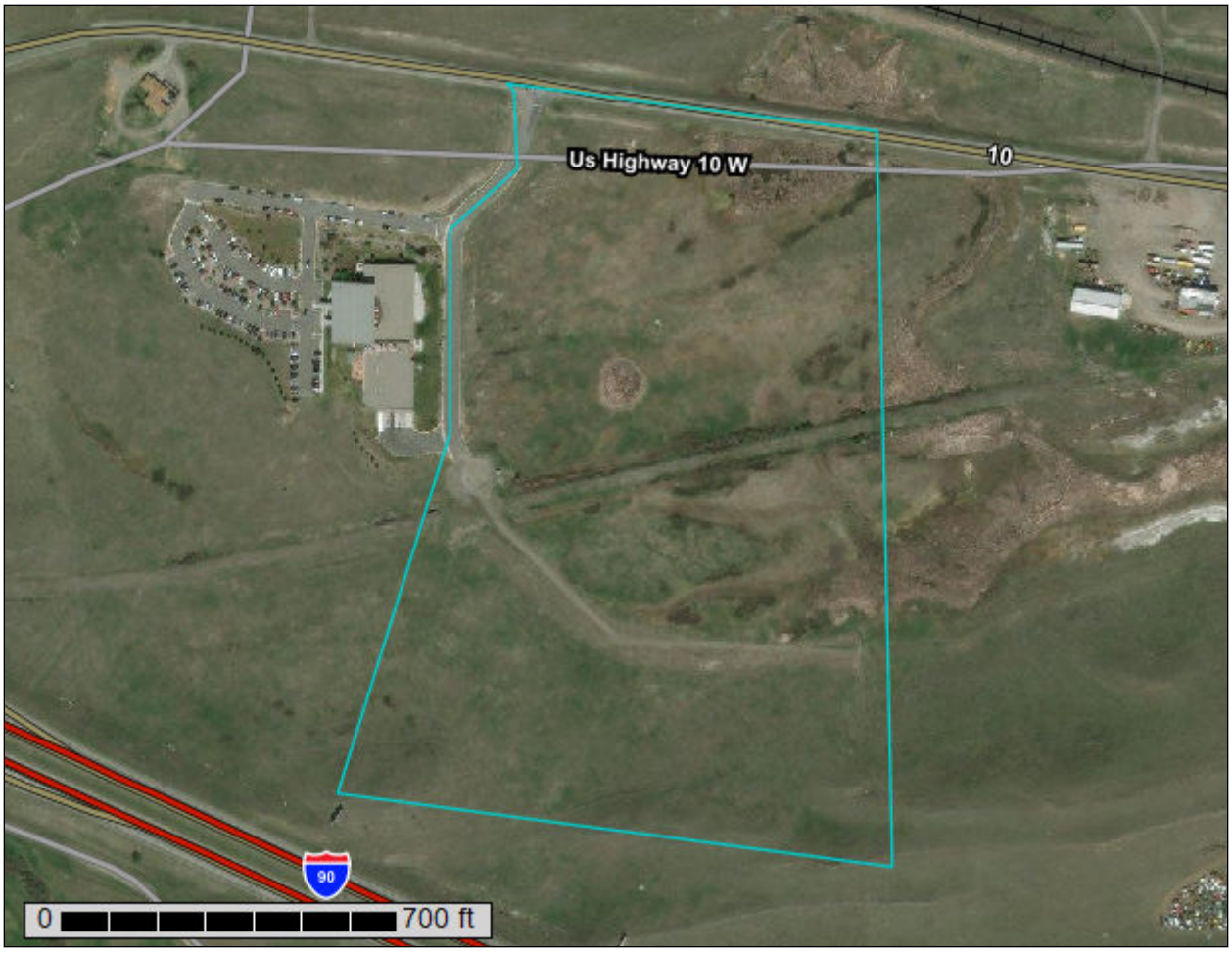
United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Park County Area, Montana



July 23, 2019

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map

Map Scale: 1:2,910 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 40 80 160 240

Feet: 0 100 200 400 600

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 12N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Park County Area, Montana
Survey Area Data: Version 10, Sep 11, 2018

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Aug 3, 2009—Sep 1, 2016

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
5401D	Ethridge-Tanna-Reedpoint complex, 2 to 15 percent slopes	0.8	2.3%
5502E	Reedpoint-Tanna-Ethridge complex, 4 to 35 percent slopes	32.4	97.7%
Totals for Area of Interest		**33.2**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The

delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Park County Area, Montana

5401D—Ethridge-Tanna-Reedpoint complex, 2 to 15 percent slopes

Map Unit Setting

National map unit symbol: 582g
Elevation: 4,300 to 5,100 feet
Mean annual precipitation: 12 to 14 inches
Mean annual air temperature: 43 to 45 degrees F
Frost-free period: 90 to 120 days
Farmland classification: Not prime farmland

Map Unit Composition

Ethridge and similar soils: 35 percent
Tanna and similar soils: 25 percent
Reedpoint and similar soils: 15 percent
Minor components: 25 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Ethridge

Setting

Landform: Swales on hills
Landform position (two-dimensional): Footslope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Clayey alluvium derived from sedimentary rock

Typical profile

A - 0 to 4 inches: clay loam
Bt - 4 to 17 inches: clay loam
Bk1 - 17 to 53 inches: clay loam
2Bk2 - 53 to 60 inches: gravelly loam

Properties and qualities

Slope: 2 to 8 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 15 percent
Sodium adsorption ratio, maximum in profile: 5.0
Available water storage in profile: High (about 10.4 inches)

Interpretive groups

Land capability classification (irrigated): 3e
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: C
Ecological site: Clayey (Cy) 9-14" p.z. (R044XS330MT)
Hydric soil rating: No

Description of Tanna

Setting

Landform: Hills
Landform position (two-dimensional): Backslope
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Loamy alluvium derived from igneous, metamorphic and sedimentary rock

Typical profile

A - 0 to 8 inches: clay loam
Bt - 8 to 16 inches: clay loam
Bk - 16 to 23 inches: loam
Cr - 23 to 60 inches: weathered bedrock, bedrock
Cr - 23 to 60 inches:

Properties and qualities

Slope: 4 to 15 percent
Depth to restrictive feature: 20 to 40 inches to paralithic bedrock
Natural drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 15 percent
Available water storage in profile: Low (about 3.9 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: C
Ecological site: Silty (Si) 9-14" p.z. (R044XS339MT)
Hydric soil rating: No

Description of Reedpoint

Setting

Landform: Hills
Landform position (two-dimensional): Summit
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Loamy residuum weathered from sandstone

Typical profile

A1 - 0 to 2 inches: very channery loam
A2 - 2 to 8 inches: extremely channery loam
R - 8 to 18 inches: bedrock

Properties and qualities

Slope: 4 to 15 percent
Depth to restrictive feature: 4 to 10 inches to lithic bedrock
Natural drainage class: Well drained
Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: Very low (about 0.8 inches)

Interpretive groups

Land capability classification (irrigated): 7s
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: Very Shallow (VSw) 9-14" p.z. (R044XS348MT)
Hydric soil rating: No

Minor Components

Yamacall

Percent of map unit: 10 percent
Landform: Hills
Landform position (two-dimensional): Backslope
Down-slope shape: Convex
Across-slope shape: Convex
Ecological site: Silty (Si) 9-14" p.z. (R044XS339MT)
Hydric soil rating: No

Cabbart

Percent of map unit: 10 percent
Landform: Scarp slopes
Landform position (two-dimensional): Backslope
Down-slope shape: Convex
Across-slope shape: Convex
Ecological site: Shallow Limy (SwLy) 9-14" p.z. (R044XS612MT)
Hydric soil rating: No

Rock outcrop

Percent of map unit: 5 percent

5502E—Reedpoint-Tanna-Ethridge complex, 4 to 35 percent slopes

Map Unit Setting

National map unit symbol: 580l
Elevation: 4,300 to 5,200 feet
Mean annual precipitation: 12 to 14 inches
Mean annual air temperature: 43 to 45 degrees F
Frost-free period: 90 to 120 days
Farmland classification: Not prime farmland

Map Unit Composition

Reedpoint and similar soils: 35 percent
Tanna and similar soils: 25 percent
Ethridge and similar soils: 20 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Reedpoint

Setting

Landform: Dip slopes
Landform position (two-dimensional): Summit, shoulder, backslope
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Loamy residuum weathered from sandstone

Typical profile

A1 - 0 to 2 inches: very channery loam
A2 - 2 to 8 inches: extremely channery loam
R - 8 to 18 inches: bedrock

Properties and qualities

Slope: 4 to 35 percent
Depth to restrictive feature: 4 to 10 inches to lithic bedrock
Natural drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: Very low (about 0.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: Very Shallow (VSw) 9-14" p.z. (R044XS348MT)
Hydric soil rating: No

Description of Tanna

Setting

Landform: Swales on dip slopes
Landform position (two-dimensional): Backslope
Down-slope shape: Concave
Across-slope shape: Convex
Parent material: Loamy alluvium derived from sandstone and shale

Typical profile

A - 0 to 2 inches: sandy clay loam
Bt - 2 to 8 inches: clay loam
Bk - 8 to 26 inches: loam
Cr - 26 to 30 inches: weathered bedrock
R - 30 to 40 inches: bedrock

Properties and qualities

Slope: 4 to 25 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock; 20 to 40 inches to paralithic bedrock
Natural drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 15 percent
Available water storage in profile: Low (about 3.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: C
Ecological site: Silty (Si) 9-14" p.z. (R044XS339MT)
Hydric soil rating: No

Description of Ethridge

Setting

Landform: Swales on dip slopes
Landform position (two-dimensional): Toeslope
Down-slope shape: Concave
Across-slope shape: Concave
Parent material: Clayey alluvium derived from sandstone and shale

Typical profile

A - 0 to 5 inches: clay loam
Bt - 5 to 21 inches: clay loam
Bk1 - 21 to 30 inches: clay loam
2Bk2 - 30 to 60 inches: gravelly loam

Properties and qualities

Slope: 4 to 15 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 15 percent
Sodium adsorption ratio, maximum in profile: 5.0
Available water storage in profile: High (about 9.4 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: C
Ecological site: Clayey (Cy) 9-14" p.z. (R044XS330MT)
Hydric soil rating: No

Minor Components

Cabbart

Percent of map unit: 12 percent
Landform: Scarp slopes
Landform position (two-dimensional): Backslope
Down-slope shape: Convex
Across-slope shape: Convex
Ecological site: Shallow Limy (SwLy) 9-14" p.z. (R044XS612MT)
Hydric soil rating: No

Rock outcrop

Percent of map unit: 5 percent

Bigsandy

Percent of map unit: 3 percent
Landform: Drainageways
Landform position (two-dimensional): Footslope
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: Saline Subirrigated (SSb) 9-14" p.z. (R044XS333MT)
Hydric soil rating: Yes

Appendix B

Figure 1 – Mapped Wetland Boundary at the Printing for Less Wetland Delineation Site

NO.	REVISIONS	DRAWN BY	DATE

0 100 200 300
SCALE (FEET)

PROJECT ENGINEER: RO	DRAWN BY: Sanderson Stewart
DESIGNED BY:	REVIEWED BY:

PRINTING FOR LESS
WETLAND DELINEATION
LIVINGSTON, MT

32 DISCOVERY DRIVE
BOZEMAN, MT 59718
PHONE (406) 582-0221
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PROJECT #: 18-018	FIGURE
DATE: 09/05/2019	W-1

\\10.10.8\Jobs\Projects\2018\18-018 Printing For Less Addition Geotech\07-Received-Sent\2019_08_29 SS ACAD\18-018 Wetlands_AES.dwg Sep 11, 2019 - 10:19am

Appendix C

Printing for Less Wetland Determination Data Forms

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site: Printing for Less **City/County:** Livingston/Park **Sampling Date:** 19-Jun-19

Applicant/Owner: Printing for Less **State:** MT **Sampling Point:** **PFL 1**

Investigator(s): B Schultz **Section, Township, Range:** **S** 22 **T** 2 S **R** 9 E

Landform (hillslope, terrace, etc.): Undulating **Local relief (concave, convex, none):** none **Slope:** 0.0 **%** / 0.0 **°**

Subregion (LRR): LRR E **Lat.:** 45°39'2.53"N **Long.:** 110°36'10.41"W **Datum:** WGS 84

Soil Map Unit Name: Reedpoint-Tanna-Ethridge complex **NWI classification:** none

Are climatic/hydrologic conditions on the site typical for this time of year? **Yes** ◉ **No** ○ **(If no, explain in Remarks.)**

Are Vegetation ☐ **, Soil** ☐ **, or Hydrology** ☐ **significantly disturbed?** **Are "Normal Circumstances" present?** **Yes** ◉ **No** ○

Are Vegetation ☐ **, Soil** ☐ **, or Hydrology** ☐ **naturally problematic?** **(If needed, explain any answers in Remarks.)**

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	**Yes** ○	**No** ◉	**Is the Sampled Area within a Wetland?** **Yes** ○ **No** ◉
Hydric Soil Present?	**Yes** ◉	**No** ○	
Wetland Hydrology Present?	**Yes** ○	**No** ◉	

Remarks:
Sample located south of gravel access drive.

VEGETATION - Use scientific names of plants.

	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
Tree Stratum (Plot size: 30 ft.)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
3.	0	☐ 0.0%	
4.	0	☐ 0.0%	
	0	**= Total Cover**	
Sapling/Shrub Stratum (Plot size: 15 ft.)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
3.	0	☐ 0.0%	
4.	0	☐ 0.0%	
5.	0	☐ 0.0%	
	0	**= Total Cover**	
Herb Stratum (Plot size: 5 ft.)			
1. Bromus inermis	75	☑ 78.9%	UPL
2. Litter	15	☐ 15.8%	
3. Poa pratensis	5	☐ 5.3%	FAC
4.	0	☐ 0.0%	
5.	0	☐ 0.0%	
6.	0	☐ 0.0%	
7.	0	☐ 0.0%	
8.	0	☐ 0.0%	
9.	0	☐ 0.0%	
10.	0	☐ 0.0%	
11.	0	☐ 0.0%	
	95	**= Total Cover**	
Woody Vine Stratum (Plot size:)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
	0	**= Total Cover**	

% Bare Ground in Herb Stratum: 0

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

	Total % Cover of:	Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	5	x 3 =	15
FACU species	0	x 4 =	0
UPL species	75	x 5 =	375
Column Totals:	80 (A)		390 (B)

Prevalence Index = B/A = 4.875

Hydrophytic Vegetation Indicators:

- ☐ **1 - Rapid Test for Hydrologic Vegetation**
- ☐ **2 - Dominance Test is > 50%**
- ☐ **3 - Prevalence Index is ≤3.0** [1]
- ☐ **4 - Morphological Adaptations** [1] **(Provide supporting data in Remarks or on a separate sheet)**
- ☐ **5 - Wetland Non-Vascular Plants** [1]
- ☐ **Problematic Hydrophytic Vegetation** [1] **(Explain)**

[1] **Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.**

Hydrophytic Vegetation Present? **Yes** ○ **No** ◉

Remarks:
Community dominated by pasture grasses.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: PFL 1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)		%	Redox Features Color (moist)		%	Type[1]	Loc[2]	Texture	Remarks
0-6	7.5YR	3/2	93	7.5YR	5/1	7	C	M	Silty Clay Loam	wet, not saturated
6-13	7.5YR	3/2	95	7.5YR	5/3	3	C	M	Silty Clay	very clayey
				7.5YR	4/4	2	C	M		
13-22	7.5YR	4/2	80	7.5YR	5/3	20	C	M	Silty Clay Loam	reddish profile, wet, not saturated

[1]Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining. M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Muck Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1) (except in MLRA 1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☑ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox depressions (F8)

Indicators for Problematic Hydric Soils [3]:

- ☐ 2 cm Muck (A10)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? **Yes** ◉ **No** ○

Remarks:

Mottles at 3 inches.

Hydrology

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)
- ☐ Salt Crust (B11)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Stunted or Stressed Plants (D1) (LRR A)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
- ☐ Drainage Patterns (B10)
- ☐ Dry Season Water Table (C2)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-neutral Test (D5)
- ☐ Raised Ant Mounds (D6) (LRR A)
- ☐ Frost Heave Hummocks (D7)

Field Observations:

Surface Water Present? **Yes** ○ **No** ◉ Depth (inches):

Water Table Present? **Yes** ○ **No** ◉ Depth (inches):

Saturation Present? (includes capillary fringe) **Yes** ○ **No** ◉ Depth (inches):

Wetland Hydrology Present? **Yes** ○ **No** ◉

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:

Remarks:

No wetland hydrology indicators were observed at this sample location.

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site: Printing for Less **City/County:** Livingston/Park **Sampling Date:** 19-Jun-19

Applicant/Owner: Printing for Less **State:** MT **Sampling Point:** PFL 2

Investigator(s): B Schultz **Section, Township, Range:** S 22 T 2 S R 9 E

Landform (hillslope, terrace, etc.): Undulating **Local relief (concave, convex, none):** none **Slope:** 0.0 % / 0.0 °

Subregion (LRR): LRR E **Lat.:** 45°39'2.65"N **Long.:** 110°36'10.65"W **Datum:** WGS 84

Soil Map Unit Name: Reedpoint-Tanna-Ethridge complex **NWI classification:** none

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ◉ No ○ **(If no, explain in Remarks.)**

Are Vegetation ☐ **, Soil** ☐ **, or Hydrology** ☐ **significantly disturbed?** **Are "Normal Circumstances" present?** Yes ◉ No ○

Are Vegetation ☐ **, Soil** ☐ **, or Hydrology** ☐ **naturally problematic?** **(If needed, explain any answers in Remarks.)**

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes ◉ No ○

Hydric Soil Present? Yes ◉ No ○

Wetland Hydrology Present? Yes ◉ No ○

Is the Sampled Area within a Wetland? Yes ◉ No ○

Remarks:
Sample located eight feet from sample point 1.

VEGETATION - Use scientific names of plants.

	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
Tree Stratum (Plot size: 30 ft.)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
3.	0	☐ 0.0%	
4.	0	☐ 0.0%	
	0	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15 ft.)			
1. Elaeagnus angustifolia	5	☑ 100.0%	FAC
2.	0	☐ 0.0%	
3.	0	☐ 0.0%	
4.	0	☐ 0.0%	
5.	0	☐ 0.0%	
	5	= Total Cover	
Herb Stratum (Plot size: 5 ft.)			
1. Poa pratensis	35	☑ 36.8%	FAC
2. Sporobolus airoides	30	☑ 31.6%	FAC
3. Litter	15	☐ 15.8%	
4. Hordeum jubatum	10	☐ 10.5%	FAC
5. Sonchus arvensis	5	☐ 5.3%	FACU
6.	0	☐ 0.0%	
7.	0	☐ 0.0%	
8.	0	☐ 0.0%	
9.	0	☐ 0.0%	
10.	0	☐ 0.0%	
11.	0	☐ 0.0%	
	95	= Total Cover	
Woody Vine Stratum (Plot size:)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
	0	= Total Cover	

% Bare Ground in Herb Stratum: 5

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

	Total % Cover of:	Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	80	x 3 =	240
FACU species	5	x 4 =	20
UPL species	0	x 5 =	0
Column Totals:	85 (A)		260 (B)

Prevalence Index = B/A = 3.059

Hydrophytic Vegetation Indicators:

- ☐ **1 - Rapid Test for Hydrologic Vegetation**
- ☑ **2 - Dominance Test is > 50%**
- ☐ **3 - Prevalence Index is ≤3.0** [1]
- ☐ **4 - Morphological Adaptations** [1] **(Provide supporting data in Remarks or on a separate sheet)**
- ☐ **5 - Wetland Non-Vascular Plants** [1]
- ☐ **Problematic Hydrophytic Vegetation** [1] **(Explain)**

[1] **Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.**

Hydrophytic Vegetation Present? Yes ◉ No ○

Remarks:
Sample dominated by Kentucky bluegrass and alkai sacaton.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: PFL 2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)		%	Redox Features Color (moist)		%	Type[1]	Loc[2]	Texture	Remarks
0-4	7.5YR	4/1	100						Silty Clay Loam	saturated to soil surface
4-12	7.5YR	3/1	94	7.5YR	6/1	3	C	M	Silty Clay Loam	
				7.5YR	5/2	3	C	M		
12-18+	7.5YR	3/2	50	7.5YR	4/2	50			Silty Clay Loam	soil almost appears mixed

[1]Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining. M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Muck Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1) (except in MLRA 1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☑ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox depressions (F8)

Indicators for Problematic Hydric Soils [3]:

- ☐ 2 cm Muck (A10)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? **Yes** ◉ **No** ○

Remarks:

Mottles at 4 inches.

Hydrology

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☑ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)
- ☐ Salt Crust (B11)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Stunted or Stressed Plants (D1) (LRR A)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
- ☐ Drainage Patterns (B10)
- ☐ Dry Season Water Table (C2)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☑ Geomorphic Position (D2)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-neutral Test (D5)
- ☐ Raised Ant Mounds (D6) (LRR A)
- ☐ Frost Heave Hummocks (D7)

Field Observations:

Surface Water Present?	**Yes** ○	**No** ◉	Depth (inches):	
Water Table Present?	**Yes** ○	**No** ◉	Depth (inches):	
Saturation Present? (includes capillary fringe)	**Yes** ◉	**No** ○	Depth (inches):	0

Wetland Hydrology Present? **Yes** ◉ **No** ○

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:

Remarks:

Soil saturated to surface.

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site: Printing for Less **City/County:** Livingston/Park **Sampling Date:** 19-Jun-19

Applicant/Owner: Printing for Less **State:** MT **Sampling Point:** PFL 3

Investigator(s): B Schultz **Section, Township, Range:** S 22 T 2 S R 9 E

Landform (hillslope, terrace, etc.): Undulating **Local relief (concave, convex, none):** concave **Slope:** 0.0 % / 0.0 °

Subregion (LRR): LRR E **Lat.:** 45°39'2.66"N **Long.:** 110°36'10.80"W **Datum:** WGS 84

Soil Map Unit Name: Reedpoint-TannaEthridge complex **NWI classification:** none

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ◉ No ○ **(If no, explain in Remarks.)**

Are Vegetation ☐ **, Soil** ☐ **, or Hydrology** ☐ **significantly disturbed?** **Are "Normal Circumstances" present?** Yes ◉ No ○

Are Vegetation ☐ **, Soil** ☐ **, or Hydrology** ☐ **naturally problematic?** **(If needed, explain any answers in Remarks.)**

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes ◉ No ○

Hydric Soil Present? Yes ◉ No ○

Wetland Hydrology Present? Yes ◉ No ○

Is the Sampled Area within a Wetland? Yes ◉ No ○

Remarks:
Sample located in small depression.

VEGETATION - Use scientific names of plants.

	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
Tree Stratum (Plot size: 30 ft.)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
3.	0	☐ 0.0%	
4.	0	☐ 0.0%	
	0	**= Total Cover**	
Sapling/Shrub Stratum (Plot size: 15 ft.)			
1. Elaeagnus angustifolia	3	☐ 100.0%	FAC
2.	0	☐ 0.0%	
3.	0	☐ 0.0%	
4.	0	☐ 0.0%	
5.	0	☐ 0.0%	
	3	**= Total Cover**	
Herb Stratum (Plot size: 5 ft.)			
1. Schoenoplectus pungens	65	☑ 81.3%	OBL
2. Sporobolus airoides	5	☐ 6.3%	FAC
3. Juncus effusus	5	☐ 6.3%	FACW
4. Juncus balticus	5	☐ 6.3%	FACW
5.	0	☐ 0.0%	
6.	0	☐ 0.0%	
7.	0	☐ 0.0%	
8.	0	☐ 0.0%	
9.	0	☐ 0.0%	
10.	0	☐ 0.0%	
11.	0	☐ 0.0%	
	80	**= Total Cover**	
Woody Vine Stratum (Plot size:)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
	0	**= Total Cover**	

% Bare Ground in Herb Stratum: 5

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

	Total % Cover of:	Multiply by:	
OBL species	65	x 1 =	65
FACW species	10	x 2 =	20
FAC species	8	x 3 =	24
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	83 (A)		109 (B)

Prevalence Index = B/A = 1.313

Hydrophytic Vegetation Indicators:

- ☑ **1 - Rapid Test for Hydrologic Vegetation**
- ☑ **2 - Dominance Test is > 50%**
- ☑ **3 - Prevalence Index is ≤3.0** [1]
- ☐ **4 - Morphological Adaptations** [1] **(Provide supporting data in Remarks or on a separate sheet)**
- ☐ **5 - Wetland Non-Vascular Plants** [1]
- ☐ **Problematic Hydrophytic Vegetation** [1] **(Explain)**

[1] **Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.**

Hydrophytic Vegetation Present? Yes ◉ No ○

Remarks:
Mixed wetland species were observed at this sample location.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: PFL 3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)		%	Redox Features Color (moist)		%	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR	3/1	90	10YR	5/2	10	C	M	Silty Clay Loam	aturated to soil surface, mottles at 4 inches
6-14+	10YR	2/1	100						Silty Clay Loam	dark, saturated, stinky

[1]Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining. M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☑ Hydrogen Sulfide (A4)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Muck Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1) (except in MLRA 1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox depressions (F8)

Indicators for Problematic Hydric Soils [3]:

- ☐ 2 cm Muck (A10)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ◉ No ○

Remarks:

Strong mottles at 4 inches with hydrogen sulfide odor.

Hydrology

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☑ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)
- ☐ Salt Crust (B11)
- ☐ Aquatic Invertebrates (B13)
- ☑ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Stunted or Stressed Plants (D1) (LRR A)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
- ☐ Drainage Patterns (B10)
- ☐ Dry Season Water Table (C2)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☑ Geomorphic Position (D2)
- ☐ Shallow Aquitard (D3)
- ☑ FAC-neutral Test (D5)
- ☐ Raised Ant Mounds (D6) (LRR A)
- ☐ Frost Heave Hummocks (D7)

Field Observations:

Surface Water Present?	Yes ○	No ◉	Depth (inches):	
Water Table Present?	Yes ○	No ◉	Depth (inches):	
Saturation Present? (includes capillary fringe)	Yes ◉	No ○	Depth (inches):	0

Wetland Hydrology Present? Yes ◉ No ○

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:

Remarks:

Sample was saturated to surface with hydrogen sulfide odor. Two seconday indicators were also observed.

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site: Printing for Less **City/County:** Livingston/Park **Sampling Date:** 19-Jun-19

Applicant/Owner: Printing for Less **State:** MT **Sampling Point:** PFL 4

Investigator(s): B Schultz **Section, Township, Range:** S 22 T 2 S R 9 E

Landform (hillslope, terrace, etc.): Undulating **Local relief (concave, convex, none):** convex **Slope:** 0.0 % / 0.0 °

Subregion (LRR): LRR E **Lat.:** 45°39'2.62"N **Long.:** 110°36'14.77"W **Datum:** WGS 84

Soil Map Unit Name: Reedpoint-Tanna-Ethridge complex **NWI classification:** none

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ◉ No ○ **(If no, explain in Remarks.)**

Are Vegetation ☐ **, Soil** ☐ **, or Hydrology** ☐ **significantly disturbed?** **Are "Normal Circumstances" present?** Yes ◉ No ○

Are Vegetation ☐ **, Soil** ☐ **, or Hydrology** ☐ **naturally problematic?** **(If needed, explain any answers in Remarks.)**

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes ○ No ◉	**Is the Sampled Area within a Wetland?** Yes ○ No ◉
Hydric Soil Present? Yes ○ No ◉	
Wetland Hydrology Present? Yes ○ No ◉	

Remarks:
Upland site, southwest of PFL Way.

VEGETATION - Use scientific names of plants.

	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
Tree Stratum (Plot size: 30 ft.)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
3.	0	☐ 0.0%	
4.	0	☐ 0.0%	
	0	**= Total Cover**	
Sapling/Shrub Stratum (Plot size: 15 ft.)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
3.	0	☐ 0.0%	
4.	0	☐ 0.0%	
5.	0	☐ 0.0%	
	0	**= Total Cover**	
Herb Stratum (Plot size: 5 ft.)			
1. Bromus inermis	60	☑ 66.7%	UPL
2. Litter	10	☐ 11.1%	
3. Cardaria draba	10	☐ 11.1%	UPL
4. Poa pratensis	5	☐ 5.6%	FAC
5. Sporobolus airoides	5	☐ 5.6%	FAC
6.	0	☐ 0.0%	
7.	0	☐ 0.0%	
8.	0	☐ 0.0%	
9.	0	☐ 0.0%	
10.	0	☐ 0.0%	
11.	0	☐ 0.0%	
	90	**= Total Cover**	
Woody Vine Stratum (Plot size:)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
	0	**= Total Cover**	

% Bare Ground in Herb Stratum: 0

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

	Total % Cover of:	Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	10	x 3 =	30
FACU species	0	x 4 =	0
UPL species	70	x 5 =	350
Column Totals:	80 (A)		380 (B)

Prevalence Index = B/A = 4.750

Hydrophytic Vegetation Indicators:

- ☐ **1 - Rapid Test for Hydrologic Vegetation**
- ☐ **2 - Dominance Test is > 50%**
- ☐ **3 - Prevalence Index is ≤3.0** [1]
- ☐ **4 - Morphological Adaptations** [1] **(Provide supporting data in Remarks or on a separate sheet)**
- ☐ **5 - Wetland Non-Vascular Plants** [1]
- ☐ **Problematic Hydrophytic Vegetation** [1] **(Explain)**

[1] **Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.**

Hydrophytic Vegetation Present? Yes ○ No ◉

Remarks:
Smooth brome and weeds dominated this location.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: PFL 4

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)		%	Redox Features Color (moist)		%	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR	3/2	100						Silty Clay Loam	friable
6-12	10YR	3/3	100						Silty Clay Loam	Damp
12-22+	10YR	3/3	98	10YR	5/2	20	C	M	Silty Clay Loam	small mottles at 16 inches

[1]Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining. M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Muck Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1) (except in MLRA 1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox depressions (F8)

Indicators for Problematic Hydric Soils [3]:

- ☐ 2 cm Muck (A10)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? **Yes** ○ **No** ◉

Remarks:

Small mottles at 16 inches.

Hydrology

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)
- ☐ Salt Crust (B11)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Stunted or Stressed Plants (D1) (LRR A)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
- ☐ Drainage Patterns (B10)
- ☐ Dry Season Water Table (C2)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-neutral Test (D5)
- ☐ Raised Ant Mounds (D6) (LRR A)
- ☐ Frost Heave Hummocks (D7)

Field Observations:

Surface Water Present? **Yes** ○ **No** ◉ Depth (inches):

Water Table Present? **Yes** ○ **No** ◉ Depth (inches):

Saturation Present? (includes capillary fringe) **Yes** ○ **No** ◉ Depth (inches):

Wetland Hydrology Present? **Yes** ○ **No** ◉

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:

Remarks:

No evidence of wetland hydrology was observed at this sample location.

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site: Printing for Less **City/County:** Livingston/Park **Sampling Date:** 19-Jun-19

Applicant/Owner: Printing for Less **State:** MT **Sampling Point:** PFL 5

Investigator(s): B Schultz **Section, Township, Range:** S 22 T 2 S R 9 E

Landform (hillslope, terrace, etc.): Undulating **Local relief (concave, convex, none):** concave **Slope:** 0.0 % / 0.0 °

Subregion (LRR): LRR E **Lat.:** 45°39'2.47"N **Long.:** 110°36'14.28"W **Datum:** WGS 84

Soil Map Unit Name: Reedpoint-Tanna-Ethridge complex **NWI classification:** none

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ◉ No ○ **(If no, explain in Remarks.)**

Are Vegetation ☐ **, Soil** ☐ **, or Hydrology** ☐ **significantly disturbed?** **Are "Normal Circumstances" present?** Yes ◉ No ○

Are Vegetation ☐ **, Soil** ☐ **, or Hydrology** ☐ **naturally problematic?** **(If needed, explain any answers in Remarks.)**

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes ◉ No ○

Hydric Soil Present? Yes ◉ No ○

Wetland Hydrology Present? Yes ◉ No ○

Is the Sampled Area within a Wetland? Yes ◉ No ○

Remarks:
Sample located in slight depression.

VEGETATION - Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Rel.Strat. Cover	Indicator Status
Tree Stratum (Plot size: 30 ft.)				
1.	0	☐	0.0%	
2.	0	☐	0.0%	
3.	0	☐	0.0%	
4.	0	☐	0.0%	
	0		= Total Cover	
Sapling/Shrub Stratum (Plot size: 15 ft.)				
1.	0	☐	0.0%	
2.	0	☐	0.0%	
3.	0	☐	0.0%	
4.	0	☐	0.0%	
5.	0	☐	0.0%	
	0		= Total Cover	
Herb Stratum (Plot size: 5 ft.)				
1. Poa pratensis	50	☑	47.6%	FAC
2. Juncus effusus	25	☑	23.8%	FACW
3. Litter	15	☐	14.3%	
4. Cirsium arvense	5	☐	4.8%	FAC
5. Cardaria draba	5	☐	4.8%	UPL
6. Carex microptera	5	☐	4.8%	FACU
7.	0	☐	0.0%	
8.	0	☐	0.0%	
9.	0	☐	0.0%	
10.	0	☐	0.0%	
11.	0	☐	0.0%	
	105		= Total Cover	
Woody Vine Stratum (Plot size:)				
1.	0	☐	0.0%	
2.	0	☐	0.0%	
	0		= Total Cover	

% Bare Ground in Herb Stratum: 0

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

	Total % Cover of:	Multiply by:	
OBL species	0	x 1 =	0
FACW species	25	x 2 =	50
FAC species	55	x 3 =	165
FACU species	5	x 4 =	20
UPL species	5	x 5 =	25
Column Totals:	90 (A)		260 (B)

Prevalence Index = B/A = 2.889

Hydrophytic Vegetation Indicators:

- ☐ **1 - Rapid Test for Hydrologic Vegetation**
- ☑ **2 - Dominance Test is > 50%**
- ☑ **3 - Prevalence Index is ≤3.0** [1]
- ☐ **4 - Morphological Adaptations** [1] **(Provide supporting data in Remarks or on a separate sheet)**
- ☐ **5 - Wetland Non-Vascular Plants** [1]
- ☐ **Problematic Hydrophytic Vegetation** [1] **(Explain)**

[1] **Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.**

Hydrophytic Vegetation Present? Yes ◉ No ○

Remarks:
Kentucky bluegrass and Baltic rush were most dominant at this location.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: PFL 5

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)		%	Redox Features Color (moist)		%	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR	3/1	100						Silty Clay Loam	saturated to soil surface
6-18+	10YR	3/2	92	10YR	5/1	5	C	M	Silty Clay Loam	increased saturation
				10YR	4/2	3	C	M		

[1]Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining. M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Muck Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1) (except in MLRA 1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☑ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox depressions (F8)

Indicators for Problematic Hydric Soils [3]:

- ☐ 2 cm Muck (A10)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? **Yes** ◉ **No** ○

Remarks:

Mottles at 6 inches.

Hydrology

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☑ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)
- ☐ Salt Crust (B11)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Stunted or Stressed Plants (D1) (LRR A)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
- ☐ Drainage Patterns (B10)
- ☐ Dry Season Water Table (C2)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☑ Geomorphic Position (D2)
- ☐ Shallow Aquitard (D3)
- ☑ FAC-neutral Test (D5)
- ☐ Raised Ant Mounds (D6) (LRR A)
- ☐ Frost Heave Hummocks (D7)

Field Observations:

Surface Water Present?	**Yes** ○	**No** ◉	Depth (inches):	
Water Table Present?	**Yes** ○	**No** ◉	Depth (inches):	
Saturation Present? (includes capillary fringe)	**Yes** ◉	**No** ○	Depth (inches):	0

Wetland Hydrology Present? **Yes** ◉ **No** ○

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:

Remarks:

Soil saturated to surface. Two secodnary indicators of wetland hydrology were also observed.

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site: Printing for Less **City/County:** Livingston/Park **Sampling Date:** 19-Jun-19

Applicant/Owner: Printing for Less **State:** MT **Sampling Point:** PFL 6

Investigator(s): B Schultz **Section, Township, Range:** S 22 T 2 S R 9 E

Landform (hillslope, terrace, etc.): Undulating **Local relief (concave, convex, none):** concave **Slope:** 0.0 % / 0.0 °

Subregion (LRR): LRR E **Lat.:** 45°39'2.28"N **Long.:** 110°36'14.17"W **Datum:** WGS 84

Soil Map Unit Name: reedpoint-Tanna-Ethridge complex **NWI classification:** none

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ◉ No ○ **(If no, explain in Remarks.)**

Are Vegetation ☐ **, Soil** ☐ **, or Hydrology** ☐ **significantly disturbed?** **Are "Normal Circumstances" present?** Yes ◉ No ○

Are Vegetation ☐ **, Soil** ☐ **, or Hydrology** ☐ **naturally problematic?** **(If needed, explain any answers in Remarks.)**

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ◉ No ○	**Is the Sampled Area within a Wetland?**	Yes ◉ No ○
Hydric Soil Present?	Yes ◉ No ○		
Wetland Hydrology Present?	Yes ◉ No ○		

Remarks:
Sample located in slight depression south of access road.

VEGETATION - Use scientific names of plants.

	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
Tree Stratum (Plot size: 30 ft.)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
3.	0	☐ 0.0%	
4.	0	☐ 0.0%	
	0	**= Total Cover**	
Sapling/Shrub Stratum (Plot size: 15 ft.)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
3.	0	☐ 0.0%	
4.	0	☐ 0.0%	
5.	0	☐ 0.0%	
	0	**= Total Cover**	
Herb Stratum (Plot size: 5 ft.)			
1. Juncus effusus	20	☑ 26.7%	FACW
2. Carex microptera	20	☑ 26.7%	FACU
3. Sporobolus airoides	15	☑ 20.0%	FAC
4. Alopecurus arundinaceus	10	☐ 13.3%	FAC
5. Cirsium arvense	5	☐ 6.7%	FAC
6. Litter	5	☐ 6.7%	
7.	0	☐ 0.0%	
8.	0	☐ 0.0%	
9.	0	☐ 0.0%	
10.	0	☐ 0.0%	
11.	0	☐ 0.0%	
	75	**= Total Cover**	
Woody Vine Stratum (Plot size:)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
	0	**= Total Cover**	

% Bare Ground in Herb Stratum: 0

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)

Prevalence Index worksheet:

	Total % Cover of:	Multiply by:	
OBL species	0	x 1 =	0
FACW species	20	x 2 =	40
FAC species	30	x 3 =	90
FACU species	20	x 4 =	80
UPL species	0	x 5 =	0
Column Totals:	70 (A)		210 (B)

Prevalence Index = B/A = 3.000

Hydrophytic Vegetation Indicators:

- ☐ **1 - Rapid Test for Hydrologic Vegetation**
- ☑ **2 - Dominance Test is > 50%**
- ☑ **3 - Prevalence Index is ≤3.0** [1]
- ☐ **4 - Morphological Adaptations** [1] **(Provide supporting data in Remarks or on a separate sheet)**
- ☐ **5 - Wetland Non-Vascular Plants** [1]
- ☐ **Problematic Hydrophytic Vegetation** [1] **(Explain)**

[1] **Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.**

Hydrophytic Vegetation Present? Yes ◉ No ○

Remarks:
Sample loction contained approximately 25% water.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: PFL 6

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)		%	Redox Features Color (moist)		%	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR	4/1	100						Silt Loam	saturated to surface
6-12	10YR	4/1	95	10YR	4/6	5	C	M	Silt Loam	mottles at 6 inches

[1]Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining. M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Muck Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1) (except in MLRA 1)
- ☐ Loamy Gleyed Matrix (F2)
- ☑ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox depressions (F8)

Indicators for Problematic Hydric Soils [3]:

- ☐ 2 cm Muck (A10)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ◉ No ○

Remarks:

Good mottles at 6 inches.

Hydrology

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ☑ Surface Water (A1)
- ☐ High Water Table (A2)
- ☑ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)
- ☐ Salt Crust (B11)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Stunted or Stressed Plants (D1) (LRR A)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
- ☐ Drainage Patterns (B10)
- ☐ Dry Season Water Table (C2)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☑ Geomorphic Position (D2)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-neutral Test (D5)
- ☐ Raised Ant Mounds (D6) (LRR A)
- ☐ Frost Heave Hummocks (D7)

Field Observations:

Surface Water Present?	Yes ◉	No ○	Depth (inches):	1
Water Table Present?	Yes ○	No ◉	Depth (inches):	
Saturation Present? (includes capillary fringe)	Yes ◉	No ○	Depth (inches):	0

Wetland Hydrology Present? Yes ◉ No ○

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:

Remarks:

One inch of surface water was observed.

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site: Printing for Less **City/County:** Livingston/Park **Sampling Date:** 19-Jun-19

Applicant/Owner: Printing for Less **State:** MT **Sampling Point:** PFL 7

Investigator(s): B Schultz **Section, Township, Range:** S 22 T 2 S R 9 E

Landform (hillslope, terrace, etc.): Undulating **Local relief (concave, convex, none):** concave **Slope:** 0.0 % / 0.0 °

Subregion (LRR): LRR E **Lat.:** 45°39'4.28"N **Long.:** 110°36'10.81"W **Datum:** WGS 84

Soil Map Unit Name: Reedpoint-Tanna-Ethridge complex **NWI classification:** PEM1C

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ◉ No ○ **(If no, explain in Remarks.)**

Are Vegetation ☐ **, Soil** ☐ **, or Hydrology** ☐ **significantly disturbed?** **Are "Normal Circumstances" present?** Yes ◉ No ○

Are Vegetation ☐ **, Soil** ☐ **, or Hydrology** ☐ **naturally problematic?** **(If needed, explain any answers in Remarks.)**

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ◉ No ○	**Is the Sampled Area within a Wetland?**	Yes ◉ No ○
Hydric Soil Present?	Yes ◉ No ○		
Wetland Hydrology Present?	Yes ◉ No ○		

Remarks:
Sample located in wetland swale.

VEGETATION - Use scientific names of plants.

	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
Tree Stratum (Plot size: 30 ft.)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
3.	0	☐ 0.0%	
4.	0	☐ 0.0%	
	0	**= Total Cover**	
Sapling/Shrub Stratum (Plot size: 15 ft.)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
3.	0	☐ 0.0%	
4.	0	☐ 0.0%	
5.	0	☐ 0.0%	
	0	**= Total Cover**	
Herb Stratum (Plot size: 5 ft.)			
1. Juncus effusus	50	☑ 52.1%	FACW
2. Litter	10	☐ 10.4%	
3. Solidago canadensis	10	☐ 10.4%	FACU
4. Rosa woodsii	5	☐ 5.2%	FACU
5. Symphoricarpos albus	5	☐ 5.2%	FACU
6. Helianthus annuus	5	☐ 5.2%	FACU
7. Taraxacum officinale	5	☐ 5.2%	FACU
8. Eleocharis palustris	3	☐ 3.1%	OBL
9. Triglochin maritima	3	☐ 3.1%	OBL
10.	0	☐ 0.0%	
11.	0	☐ 0.0%	
	96	**= Total Cover**	
Woody Vine Stratum (Plot size:)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
	0	**= Total Cover**	

% Bare Ground in Herb Stratum: 0

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

	Total % Cover of:	Multiply by:	
OBL species	6	x 1 =	6
FACW species	50	x 2 =	100
FAC species	0	x 3 =	0
FACU species	30	x 4 =	120
UPL species	0	x 5 =	0
Column Totals:	86 (A)		226 (B)

Prevalence Index = B/A = 2.628

Hydrophytic Vegetation Indicators:

- ☑ **1 - Rapid Test for Hydrologic Vegetation**
- ☑ **2 - Dominance Test is > 50%**
- ☑ **3 - Prevalence Index is ≤3.0** [1]
- ☐ **4 - Morphological Adaptations** [1] **(Provide supporting data in Remarks or on a separate sheet)**
- ☐ **5 - Wetland Non-Vascular Plants** [1]
- ☐ **Problematic Hydrophytic Vegetation** [1] **(Explain)**

[1] **Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.**

Hydrophytic Vegetation Present? Yes ◉ No ○

Remarks:
Baltic rush dominated this sample location.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: PFL 7

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)		%	Redox Features Color (moist)		%	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR	4/1	100						Silt Loam	saturated to soil surface
6-14	10YR	4/1	93	10YR	4/6	7	C	M	Silt Loam	mottles at 6 inches

[1]Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining. M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Muck Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1) (except in MLRA 1)
- ☐ Loamy Gleyed Matrix (F2)
- ☑ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox depressions (F8)

Indicators for Problematic Hydric Soils [3]:

- ☐ 2 cm Muck (A10)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? **Yes** ◉ **No** ○

Remarks:

Mottles at 6 inches.

Hydrology

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☑ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)
- ☐ Salt Crust (B11)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Stunted or Stressed Plants (D1) (LRR A)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
- ☐ Drainage Patterns (B10)
- ☐ Dry Season Water Table (C2)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☑ Geomorphic Position (D2)
- ☐ Shallow Aquitard (D3)
- ☑ FAC-neutral Test (D5)
- ☐ Raised Ant Mounds (D6) (LRR A)
- ☐ Frost Heave Hummocks (D7)

Field Observations:

Surface Water Present?	**Yes** ○	**No** ◉	Depth (inches):	
Water Table Present?	**Yes** ○	**No** ◉	Depth (inches):	
Saturation Present? (includes capillary fringe)	**Yes** ◉	**No** ○	Depth (inches):	0

Wetland Hydrology Present? **Yes** ◉ **No** ○

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:

Remarks:

Soil saturated to surface. Two secondary indicators of wetland hydrology were also observed.

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site: Printing for Less **City/County:** Livingston/Park **Sampling Date:** 19-Jun-19

Applicant/Owner: Printing for Less **State:** MT **Sampling Point:** **PFL 8**

Investigator(s): B Schultz **Section, Township, Range:** **S** 22 **T** 2 S **R** 9 E

Landform (hillslope, terrace, etc.): Undulating **Local relief (concave, convex, none):** none **Slope:** 0.0 **% /** 0.0 **°**

Subregion (LRR): LRR E **Lat.:** 45°39'4.49"N **Long.:** 110°36'11.13"W **Datum:** WGS 84

Soil Map Unit Name: Reedpoint-Tanna-Ethridge complex **NWI classification:** PEM1C

Are climatic/hydrologic conditions on the site typical for this time of year? **Yes** ◉ **No** ○ **(If no, explain in Remarks.)**

Are Vegetation ☐ **, Soil** ☐ **, or Hydrology** ☐ **significantly disturbed?** **Are "Normal Circumstances" present?** **Yes** ◉ **No** ○

Are Vegetation ☐ **, Soil** ☐ **, or Hydrology** ☐ **naturally problematic?** **(If needed, explain any answers in Remarks.)**

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	**Yes** ○ **No** ◉	**Is the Sampled Area within a Wetland?**	**Yes** ○ **No** ◉
Hydric Soil Present?	**Yes** ○ **No** ◉		
Wetland Hydrology Present?	**Yes** ○ **No** ◉		

Remarks:
Located approximately three feet above sample seven.

VEGETATION - Use scientific names of plants.

	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
Tree Stratum (Plot size: 30 ft.)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
3.	0	☐ 0.0%	
4.	0	☐ 0.0%	
	0	**= Total Cover**	
Sapling/Shrub Stratum (Plot size: 15 ft.)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
3.	0	☐ 0.0%	
4.	0	☐ 0.0%	
5.	0	☐ 0.0%	
	0	**= Total Cover**	
Herb Stratum (Plot size: 5 ft.)			
1. Bromus inermis	50	☑ 51.0%	UPL
2. Symphoricarpos albus	20	☑ 20.4%	FACU
3. Poa pratensis	10	☐ 10.2%	FAC
4. Litter	5	☐ 5.1%	
5. Rosa woodsii	5	☐ 5.1%	FACU
6. Juncus balticus	5	☐ 5.1%	FACW
7. Iris missouriensis	3	☐ 3.1%	FACW
8.	0	☐ 0.0%	
9.	0	☐ 0.0%	
10.	0	☐ 0.0%	
11.	0	☐ 0.0%	
	98	**= Total Cover**	
Woody Vine Stratum (Plot size:)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
	0	**= Total Cover**	

% Bare Ground in Herb Stratum: 0

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

	Total % Cover of:	Multiply by:	
OBL species	0	x 1 =	0
FACW species	8	x 2 =	16
FAC species	10	x 3 =	30
FACU species	25	x 4 =	100
UPL species	50	x 5 =	250
Column Totals:	93 (A)		396 (B)

Prevalence Index = B/A = 4.258

Hydrophytic Vegetation Indicators:

- ☐ **1 - Rapid Test for Hydrologic Vegetation**
- ☐ **2 - Dominance Test is > 50%**
- ☐ **3 - Prevalence Index is ≤3.0** [1]
- ☐ **4 - Morphological Adaptations** [1] **(Provide supporting data in Remarks or on a separate sheet)**
- ☐ **5 - Wetland Non-Vascular Plants** [1]
- ☐ **Problematic Hydrophytic Vegetation** [1] **(Explain)**

[1] **Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.**

Hydrophytic Vegetation Present? **Yes** ○ **No** ◉

Remarks:
Smooth brome and snowberry dominated this sample location.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: PFL 8

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)		%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR	3/2	100					Silty Clay Loam	damp
4-22+	10YR	3/3	100					Silty Clay Loam	damp

[1]Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining. M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Muck Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1) (except in MLRA 1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox depressions (F8)

Indicators for Problematic Hydric Soils [3]:

- ☐ 2 cm Muck (A10)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ○ No ◉

Remarks:

No hydric soil indicators were observed at this sample location.

Hydrology

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)
- ☐ Salt Crust (B11)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Stunted or Stressed Plants (D1) (LRR A)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
- ☐ Drainage Patterns (B10)
- ☐ Dry Season Water Table (C2)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-neutral Test (D5)
- ☐ Raised Ant Mounds (D6) (LRR A)
- ☐ Frost Heave Hummocks (D7)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

Wetland Hydrology Present? Yes ○ No ◉

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:

Remarks:

No wetland hydrology indicators were observed at this sample location.

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site: Printing for Less **City/County:** Livingston/Park **Sampling Date:** 26-Jun-19

Applicant/Owner: Printing for Less **State:** MT **Sampling Point:** PFL 9

Investigator(s): B Schultz **Section, Township, Range:** S 22 T 2 S R 9 E

Landform (hillslope, terrace, etc.): Undulating **Local relief (concave, convex, none):** none **Slope:** 0.0 % / 0.0 °

Subregion (LRR): LRR E **Lat.:** 45°39'3.32"N **Long.:** 110°36'10.83"W **Datum:** WGS 84

Soil Map Unit Name: Reedpoint-Tanna-Ethridge complex **NWI classification:** PEM1C

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ◉ No ○ **(If no, explain in Remarks.)**

Are Vegetation ☐ **, Soil** ☐ **, or Hydrology** ☐ **significantly disturbed?** **Are "Normal Circumstances" present?** Yes ◉ No ○

Are Vegetation ☐ **, Soil** ☐ **, or Hydrology** ☐ **naturally problematic?** **(If needed, explain any answers in Remarks.)**

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ◉ No ○	**Is the Sampled Area within a Wetland?**	Yes ○ No ◉
Hydric Soil Present?	Yes ◉ No ○		
Wetland Hydrology Present?	Yes ○ No ◉		

Remarks:
Two of three wetland indicators were observed at this sample location.

VEGETATION - Use scientific names of plants.

	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
Tree Stratum (Plot size: 30 ft.)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
3.	0	☐ 0.0%	
4.	0	☐ 0.0%	
	0	**= Total Cover**	
Sapling/Shrub Stratum (Plot size: 15 ft.)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
3.	0	☐ 0.0%	
4.	0	☐ 0.0%	
5.	0	☐ 0.0%	
	0	**= Total Cover**	
Herb Stratum (Plot size: 5 ft.)			
1. Agrostis gigantea	50	☑ 52.6%	FAC
2. Cirsium arvense	10	☐ 10.5%	FAC
3. Poa pratensis	10	☐ 10.5%	FAC
4. Juncus balticus	10	☐ 10.5%	FACW
5. Litter	10	☐ 10.5%	
6. Cardaria draba	5	☐ 5.3%	UPL
7.	0	☐ 0.0%	
8.	0	☐ 0.0%	
9.	0	☐ 0.0%	
10.	0	☐ 0.0%	
11.	0	☐ 0.0%	
	95	**= Total Cover**	
Woody Vine Stratum (Plot size:)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
	0	**= Total Cover**	

% Bare Ground in Herb Stratum: 0

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

	Total % Cover of:	Multiply by:	
OBL species	0	x 1 =	0
FACW species	10	x 2 =	20
FAC species	70	x 3 =	210
FACU species	0	x 4 =	0
UPL species	5	x 5 =	25
Column Totals:	85 (A)		255 (B)

Prevalence Index = B/A = 3.000

Hydrophytic Vegetation Indicators:

- ☐ **1 - Rapid Test for Hydrologic Vegetation**
- ☑ **2 - Dominance Test is > 50%**
- ☑ **3 - Prevalence Index is ≤3.0** [1]
- ☐ **4 - Morphological Adaptations** [1] **(Provide supporting data in Remarks or on a separate sheet)**
- ☐ **5 - Wetland Non-Vascular Plants** [1]
- ☐ **Problematic Hydrophytic Vegetation** [1] **(Explain)**

[1] **Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.**

Hydrophytic Vegetation Present? Yes ◉ No ○

Remarks:
Redtop dominated the sample location.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: PFL 9

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)		%	Redox Features Color (moist)		%	Type[1]	Loc[2]	Texture	Remarks
0-2	10YR	3/2	100						silty clay loam	rooty, organic
2-8	10YR	4/1	97	10YR	5/1	3	C	M	Silty Clay Loam	increase clay as increase depth, 3% mottles at 6
8-22	10YR	4/1	92	10YR	5/1	5	C	M	Silty Clay Loam	very clayey, very wet soil
				10YR	5/3	3	C	M		

[1]Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining. M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Muck Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1) (except in MLRA 1)
- ☐ Loamy Gleyed Matrix (F2)
- ☑ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox depressions (F8)

Indicators for Problematic Hydric Soils [3]:

- ☐ 2 cm Muck (A10)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? **Yes** ◉ **No** ○

Remarks:

Mottles at 6 inches.

Hydrology

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)
- ☐ Salt Crust (B11)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Stunted or Stressed Plants (D1) (LRR A)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
- ☐ Drainage Patterns (B10)
- ☐ Dry Season Water Table (C2)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-neutral Test (D5)
- ☐ Raised Ant Mounds (D6) (LRR A)
- ☐ Frost Heave Hummocks (D7)

Field Observations:

Surface Water Present? **Yes** ○ **No** ◉ Depth (inches):

Water Table Present? **Yes** ○ **No** ◉ Depth (inches):

Saturation Present? (includes capillary fringe) **Yes** ○ **No** ◉ Depth (inches):

Wetland Hydrology Present? **Yes** ○ **No** ◉

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:

Remarks:

No hydric soil indicators were observed at this locaiton.

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site: Printing for Less **City/County:** Livingston/Park **Sampling Date:** 26-Jun-19

Applicant/Owner: Printing for Less **State:** MT **Sampling Point:** **PFL 10**

Investigator(s): B Schultz **Section, Township, Range:** **S** 22 **T** 2 S **R** 9 E

Landform (hillslope, terrace, etc.): Undulating **Local relief (concave, convex, none):** none **Slope:** 0.0 **%** / 0.0 **°**

Subregion (LRR): LRR E **Lat.:** 45°39'3.37"N **Long.:** 110°36'9.90"W **Datum:** WGS 84

Soil Map Unit Name: Reedpoint-Tanna-Ethridge complex **NWI classification:** PEM1C

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ◉ No ○ **(If no, explain in Remarks.)**

Are Vegetation ☐ **, Soil** ☐ **, or Hydrology** ☐ **significantly disturbed?** **Are "Normal Circumstances" present?** Yes ◉ No ○

Are Vegetation ☐ **, Soil** ☐ **, or Hydrology** ☐ **naturally problematic?** **(If needed, explain any answers in Remarks.)**

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ◉	No ○	
Hydric Soil Present?	Yes ◉	No ○	**Is the Sampled Area within a Wetland?** Yes ◉ No ○
Wetland Hydrology Present?	Yes ◉	No ○	

Remarks:
Sample located three feet below sample nine.

VEGETATION - Use scientific names of plants.

	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
Tree Stratum (Plot size: 30 ft.)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
3.	0	☐ 0.0%	
4.	0	☐ 0.0%	
	0	**= Total Cover**	
Sapling/Shrub Stratum (Plot size: 15 ft.)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
3.	0	☐ 0.0%	
4.	0	☐ 0.0%	
5.	0	☐ 0.0%	
	0	**= Total Cover**	
Herb Stratum (Plot size: 5 ft.)			
1. Juncus effusus	65	☑ 68.4%	FACW
2. Alopecurus arundinaceus	25	☑ 26.3%	FAC
3. Mentha arvensis	5	☐ 5.3%	FACW
4.	0	☐ 0.0%	
5.	0	☐ 0.0%	
6.	0	☐ 0.0%	
7.	0	☐ 0.0%	
8.	0	☐ 0.0%	
9.	0	☐ 0.0%	
10.	0	☐ 0.0%	
11.	0	☐ 0.0%	
	95	**= Total Cover**	
Woody Vine Stratum (Plot size:)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
	0	**= Total Cover**	

% Bare Ground in Herb Stratum: 0

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

	Total % Cover of:	Multiply by:	
OBL species	0	x 1 =	0
FACW species	70	x 2 =	140
FAC species	25	x 3 =	75
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	95 (A)		215 (B)

Prevalence Index = B/A = 2.263

Hydrophytic Vegetation Indicators:

- ☐ **1 - Rapid Test for Hydrologic Vegetation**
- ☑ **2 - Dominance Test is > 50%**
- ☑ **3 - Prevalence Index is ≤3.0** [1]
- ☐ **4 - Morphological Adaptations** [1] **(Provide supporting data in Remarks or on a separate sheet)**
- ☐ **5 - Wetland Non-Vascular Plants** [1]
- ☐ **Problematic Hydrophytic Vegetation** [1] **(Explain)**

[1] **Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.**

Hydrophytic Vegetation Present? Yes ◉ No ○

Remarks:
Sample location dominated by Baltic rush.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: PFL 10

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)		%	Redox Features Color (moist)		%	Type[1]	Loc[2]	Texture	Remarks
0-14	10YR	4/1	90	10YR	4/4	5	C	M	Silty Clay Loam	saturated to soil surface
				10YR	4/6	5	C	M		increase clay as increae depth

[1]Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining. M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☑ Hydrogen Sulfide (A4)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Muck Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1) (except in MLRA 1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox depressions (F8)

Indicators for Problematic Hydric Soils [3]:

- ☐ 2 cm Muck (A10)
- ☐ Red Parent Material (TF2)
- ☑ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ◉ No ○

Remarks:

Black (10YR 2/1) spots throughout profile from 2 to 4 inches. Hydrogen sulfide odor was observed.

Hydrology

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☑ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)
- ☐ Salt Crust (B11)
- ☐ Aquatic Invertebrates (B13)
- ☑ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Stunted or Stressed Plants (D1) (LRR A)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
- ☐ Drainage Patterns (B10)
- ☐ Dry Season Water Table (C2)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☑ Geomorphic Position (D2)
- ☐ Shallow Aquitard (D3)
- ☑ FAC-neutral Test (D5)
- ☐ Raised Ant Mounds (D6) (LRR A)
- ☐ Frost Heave Hummocks (D7)

Field Observations:

Surface Water Present?	Yes ○	No ◉	Depth (inches):	
Water Table Present?	Yes ○	No ◉	Depth (inches):	
Saturation Present? (includes capillary fringe)	Yes ◉	No ○	Depth (inches):	0

Wetland Hydrology Present? Yes ◉ No ○

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:

Remarks:

Soil saturated to surface. Soil had a hydrogen sulfide odor. Two secondary indicators of wetland hydrology were observed at this sample location.

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site: Printing for Less **City/County:** Livingston/Park **Sampling Date:** 26-Jun-19

Applicant/Owner: Printing for Less **State:** MT **Sampling Point:** PFL 11

Investigator(s): B Schultz **Section, Township, Range:** S 22 T 2 S R 9 E

Landform (hillslope, terrace, etc.): Undulating **Local relief (concave, convex, none):** none **Slope:** 0.0 % / 0.0 °

Subregion (LRR): LRR E **Lat.:** 45°39'3.43"N **Long.:** 110°36'9.48"W **Datum:** WGS 84

Soil Map Unit Name: Reedpoint-Tanna-Ethridge complex **NWI classification:** PEM1C

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ◉ No ○ **(If no, explain in Remarks.)**

Are Vegetation ☐ **, Soil** ☐ **, or Hydrology** ☐ **significantly disturbed?** **Are "Normal Circumstances" present?** Yes ◉ No ○

Are Vegetation ☐ **, Soil** ☐ **, or Hydrology** ☐ **naturally problematic?** **(If needed, explain any answers in Remarks.)**

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ◉	No ○	
Hydric Soil Present?	Yes ◉	No ○	**Is the Sampled Area within a Wetland?** Yes ◉ No ○
Wetland Hydrology Present?	Yes ◉	No ○	

Remarks:
Cattail marsh.

VEGETATION - Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Rel.Strat. Cover	Indicator Status
Tree Stratum (Plot size: 30 ft.)				
1.	0	☐	0.0%	
2.	0	☐	0.0%	
3.	0	☐	0.0%	
4.	0	☐	0.0%	
	0		**= Total Cover**	
Sapling/Shrub Stratum (Plot size: 15 ft.)				
1.	0	☐	0.0%	
2.	0	☐	0.0%	
3.	0	☐	0.0%	
4.	0	☐	0.0%	
5.	0	☐	0.0%	
	0		**= Total Cover**	
Herb Stratum (Plot size: 5 ft.)				
1. Typha latifolia	40	☑	42.1%	OBL
2. Juncus effusus	35	☑	36.8%	FACW
3. Carex nebrascensis	10	☐	10.5%	OBL
4. Mentha arvensis	5	☐	5.3%	FACW
5. Litter	5	☐	5.3%	
6.	0	☐	0.0%	
7.	0	☐	0.0%	
8.	0	☐	0.0%	
9.	0	☐	0.0%	
10.	0	☐	0.0%	
11.	0	☐	0.0%	
	95		**= Total Cover**	
Woody Vine Stratum (Plot size:)				
1.	0	☐	0.0%	
2.	0	☐	0.0%	
	0		**= Total Cover**	

% Bare Ground in Herb Stratum: 0

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

	Total % Cover of:	Multiply by:	
OBL species	50	x 1 =	50
FACW species	40	x 2 =	80
FAC species	0	x 3 =	0
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	90 (A)		130 (B)

Prevalence Index = B/A = 1.444

Hydrophytic Vegetation Indicators:

- ☑ **1 - Rapid Test for Hydrologic Vegetation**
- ☑ **2 - Dominance Test is > 50%**
- ☑ **3 - Prevalence Index is ≤3.0** [1]
- ☐ **4 - Morphological Adaptations** [1] **(Provide supporting data in Remarks or on a separate sheet)**
- ☐ **5 - Wetland Non-Vascular Plants** [1]
- ☐ **Problematic Hydrophytic Vegetation** [1] **(Explain)**

[1] **Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.**

Hydrophytic Vegetation Present? Yes ◉ No ○

Remarks:
Site dominated by cattails and Baltic rush.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: PFL 11

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)		%	Redox Features Color (moist)		%	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR	4/1	100						Silty Clay Loam	saturated, stinky soil
6-14+	10YR	4/1	95	10YR	4/6	5	C	M	Silty Clay Loam	stinky, silky soil

[1]Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining. M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☑ Hydrogen Sulfide (A4)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Muck Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1) (except in MLRA 1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox depressions (F8)

Indicators for Problematic Hydric Soils [3]:

- ☐ 2 cm Muck (A10)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? **Yes** ◉ **No** ○

Remarks:

Hydrogen sulfide odor was observed.

Hydrology

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ☑ Surface Water (A1)
- ☐ High Water Table (A2)
- ☑ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)
- ☐ Salt Crust (B11)
- ☐ Aquatic Invertebrates (B13)
- ☑ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Stunted or Stressed Plants (D1) (LRR A)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
- ☐ Drainage Patterns (B10)
- ☐ Dry Season Water Table (C2)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☑ Geomorphic Position (D2)
- ☐ Shallow Aquitard (D3)
- ☑ FAC-neutral Test (D5)
- ☐ Raised Ant Mounds (D6) (LRR A)
- ☐ Frost Heave Hummocks (D7)

Field Observations:

Surface Water Present?	**Yes** ◉	**No** ○	Depth (inches):	1
Water Table Present?	**Yes** ○	**No** ◉	Depth (inches):	
Saturation Present? (includes capillary fringe)	**Yes** ◉	**No** ○	Depth (inches):	0

Wetland Hydrology Present? **Yes** ◉ **No** ○

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:

Remarks:

Approximately one inch of surface water.

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site: Printing for Less **City/County:** Livingston/Park **Sampling Date:** 26-Jun-19

Applicant/Owner: Printing for Less **State:** MT **Sampling Point:** PFL 12

Investigator(s): B Schultz **Section, Township, Range:** S 22 T 2 S R 9 E

Landform (hillslope, terrace, etc.): Undulating **Local relief (concave, convex, none):** none **Slope:** 0.0 % / 0.0 °

Subregion (LRR): LRR E **Lat.:** 45°39'6.36"N **Long.:** 110°36'11.12"W **Datum:** WGS 84

Soil Map Unit Name: Reedpoint-Tanna-Ethridge complex **NWI classification:** FSW

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ◉ No ○ **(If no, explain in Remarks.)**

Are Vegetation ☐ **, Soil** ☐ **, or Hydrology** ☐ **significantly disturbed?** **Are "Normal Circumstances" present?** Yes ◉ No ○

Are Vegetation ☐ **, Soil** ☐ **, or Hydrology** ☐ **naturally problematic?** **(If needed, explain any answers in Remarks.)**

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ◉	No ○	
Hydric Soil Present?	Yes ◉	No ○	**Is the Sampled Area within a Wetland?** Yes ◉ No ○
Wetland Hydrology Present?	Yes ◉	No ○	

Remarks:
Shrub/scrub sample location along railroad grade.

VEGETATION - Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Rel.Strat. Cover	Indicator Status
Tree Stratum (Plot size: 30 ft.)				
1.	0	☐	0.0%	
2.	0	☐	0.0%	
3.	0	☐	0.0%	
4.	0	☐	0.0%	
	0		**= Total Cover**	
Sapling/Shrub Stratum (Plot size: 15 ft.)				
1. Salix exigua	40	☑	100.0%	FACW
2.	0	☐	0.0%	
3.	0	☐	0.0%	
4.	0	☐	0.0%	
5.	0	☐	0.0%	
	40		**= Total Cover**	
Herb Stratum (Plot size: 5 ft.)				
1. Juncus effusus	20	☑	37.7%	FACW
2. Agrostis gigantea	15	☑	28.3%	FAC
3. Triglochin maritima	5	☐	9.4%	OBL
4. Eleocharis palustris	5	☐	9.4%	OBL
5. Litter	3	☐	5.7%	
6. Symphoricarpos albus	5	☐	9.4%	FACU
7.	0	☐	0.0%	
8.	0	☐	0.0%	
9.	0	☐	0.0%	
10.	0	☐	0.0%	
11.	0	☐	0.0%	
	53		**= Total Cover**	
Woody Vine Stratum (Plot size:)				
1.	0	☐	0.0%	
2.	0	☐	0.0%	
	0		**= Total Cover**	

% Bare Ground in Herb Stratum: 0

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

	Total % Cover of:	Multiply by:	
OBL species	10	x 1 =	10
FACW species	60	x 2 =	120
FAC species	15	x 3 =	45
FACU species	5	x 4 =	20
UPL species	0	x 5 =	0
Column Totals:	90 (A)		195 (B)

Prevalence Index = B/A = 2.167

Hydrophytic Vegetation Indicators:

- ☐ **1 - Rapid Test for Hydrologic Vegetation**
- ☑ **2 - Dominance Test is > 50%**
- ☑ **3 - Prevalence Index is ≤3.0** [1]
- ☐ **4 - Morphological Adaptations** [1] **(Provide supporting data in Remarks or on a separate sheet)**
- ☐ **5 - Wetland Non-Vascular Plants** [1]
- ☐ **Problematic Hydrophytic Vegetation** [1] **(Explain)**

[1] **Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.**

Hydrophytic Vegetation Present? Yes ◉ No ○

Remarks:
Salix overstory with mixed understory.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: PFL 12

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)		%	Redox Features Color (moist)		%	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR	4/1	100						Silty Clay Loam	saturated, surface water
6-15	10YR	4/1	94	10YR	4/6	6	C	M	Silty Clay Loam	mottles at 6 inches

[1]Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining. M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Muck Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1) (except in MLRA 1)
- ☐ Loamy Gleyed Matrix (F2)
- ☑ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox depressions (F8)

Indicators for Problematic Hydric Soils [3]:

- ☐ 2 cm Muck (A10)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? **Yes** ◉ **No** ○

Remarks:

Mottles at 6 inches.

Hydrology

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ☑ Surface Water (A1)
- ☐ High Water Table (A2)
- ☑ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)
- ☐ Salt Crust (B11)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Stunted or Stressed Plants (D1) (LRR A)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
- ☐ Drainage Patterns (B10)
- ☐ Dry Season Water Table (C2)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☑ Geomorphic Position (D2)
- ☐ Shallow Aquitard (D3)
- ☑ FAC-neutral Test (D5)
- ☐ Raised Ant Mounds (D6) (LRR A)
- ☐ Frost Heave Hummocks (D7)

Field Observations:

Surface Water Present?	**Yes** ◉	**No** ○	Depth (inches):	1
Water Table Present?	**Yes** ○	**No** ◉	Depth (inches):	
Saturation Present? (includes capillary fringe)	**Yes** ◉	**No** ○	Depth (inches):	

Wetland Hydrology Present? **Yes** ◉ **No** ○

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:

Remarks:

One inch of surface water was observed. Two secondary indicators of wetland hydrology were observed at this location.

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site: Printing for Less **City/County:** Livingston/Park **Sampling Date:** 26-Jun-19

Applicant/Owner: Printing for Less **State:** MT **Sampling Point:** PFL 13

Investigator(s): B Schultz **Section, Township, Range:** S 22 T 2 S R 9 E

Landform (hillslope, terrace, etc.): Undulating **Local relief (concave, convex, none):** none **Slope:** 0.0 % / 0.0 °

Subregion (LRR): LRR E **Lat.:** 45°39'6.52"N **Long.:** 110°36'11.22"W **Datum:** WGS 84

Soil Map Unit Name: reedpoint-Tanna-Ethridge complex **NWI classification:** FSW

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ◉ No ○ **(If no, explain in Remarks.)**

Are Vegetation ☐ **, Soil** ☐ **, or Hydrology** ☐ **significantly disturbed?** **Are "Normal Circumstances" present?** Yes ◉ No ○

Are Vegetation ☐ **, Soil** ☐ **, or Hydrology** ☐ **naturally problematic?** **(If needed, explain any answers in Remarks.)**

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ○	No ◉	**Is the Sampled Area within a Wetland?** Yes ○ No ◉
Hydric Soil Present?	Yes ○	No ◉	
Wetland Hydrology Present?	Yes ○	No ◉	

Remarks:
No wetland indicators were observed at this sample location.

VEGETATION - Use scientific names of plants.

	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
Tree Stratum (Plot size: 30 ft.)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
3.	0	☐ 0.0%	
4.	0	☐ 0.0%	
	0	**= Total Cover**	
Sapling/Shrub Stratum (Plot size: 15 ft.)			
1. Salix exigua	5	☑ 100.0%	FACW
2.	0	☐ 0.0%	
3.	0	☐ 0.0%	
4.	0	☐ 0.0%	
5.	0	☐ 0.0%	
	5	**= Total Cover**	
Herb Stratum (Plot size: 5 ft.)			
1. Symphoricarpos albus	50	☑ 53.8%	FACU
2. Rosa woodsii	15	☐ 16.1%	FACU
3. Dactylis glomerata	10	☐ 10.8%	FACU
4. Achillea millefolium	10	☐ 10.8%	FACU
5. Equisetum hyemale	5	☐ 5.4%	FACW
6. Helianthus annuus	3	☐ 3.2%	FACU
7.	0	☐ 0.0%	
8.	0	☐ 0.0%	
9.	0	☐ 0.0%	
10.	0	☐ 0.0%	
11.	0	☐ 0.0%	
	93	**= Total Cover**	
Woody Vine Stratum (Plot size:)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
	0	**= Total Cover**	

% Bare Ground in Herb Stratum: 0

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)

Prevalence Index worksheet:

	Total % Cover of:	Multiply by:	
OBL species	0	x 1 =	0
FACW species	10	x 2 =	20
FAC species	0	x 3 =	0
FACU species	88	x 4 =	352
UPL species	0	x 5 =	0
Column Totals:	98 (A)		372 (B)

Prevalence Index = B/A = 3.796

Hydrophytic Vegetation Indicators:

- ☐ **1 - Rapid Test for Hydrologic Vegetation**
- ☐ **2 - Dominance Test is > 50%**
- ☐ **3 - Prevalence Index is ≤3.0** [1]
- ☐ **4 - Morphological Adaptations** [1] **(Provide supporting data in Remarks or on a separate sheet)**
- ☐ **5 - Wetland Non-Vascular Plants** [1]
- ☐ **Problematic Hydrophytic Vegetation** [1] **(Explain)**

[1] **Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.**

Hydrophytic Vegetation Present? Yes ○ No ◉

Remarks:
Snowberry domianted this site.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: PFL 13

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)		%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR	3/2	100					silty lay loam	organic, rooty
4-20	10YR	4/1	100					Silty Clay Loam	increase clay as deeper in profile

[1]Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining. M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Muck Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1) (except in MLRA 1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox depressions (F8)

Indicators for Problematic Hydric Soils [3]:

- ☐ 2 cm Muck (A10)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ○ No ◉

Remarks:

No hydric soil indicators were observed at this sample location.

Hydrology

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)
- ☐ Salt Crust (B11)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Stunted or Stressed Plants (D1) (LRR A)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
- ☐ Drainage Patterns (B10)
- ☐ Dry Season Water Table (C2)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-neutral Test (D5)
- ☐ Raised Ant Mounds (D6) (LRR A)
- ☐ Frost Heave Hummocks (D7)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

Wetland Hydrology Present? Yes ○ No ◉

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:

Remarks:

No evidence of wetland hydrology was observed at this sample location.

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site: Printing for Less **City/County:** Livingston/Park **Sampling Date:** 26-Jun-19

Applicant/Owner: Printing for Less **State:** MT **Sampling Point:** **PFL 14**

Investigator(s): B Schultz **Section, Township, Range:** **S** 22 **T** 2 S **R** 9 E

Landform (hillslope, terrace, etc.): **Local relief (concave, convex, none):** **Slope:** 0.0 **%** / 0.0 **°**

Subregion (LRR): LRR E **Lat.:** 45°39'10.46"N **Long.:** 110°36'8.06"W **Datum:** WGS 84

Soil Map Unit Name: **NWI classification:**

Are climatic/hydrologic conditions on the site typical for this time of year? **Yes** ◉ **No** ○ **(If no, explain in Remarks.)**

Are Vegetation ☐ **, Soil** ☐ **, or Hydrology** ☐ **significantly disturbed?** **Are "Normal Circumstances" present?** **Yes** ◉ **No** ○

Are Vegetation ☐ **, Soil** ☐ **, or Hydrology** ☐ **naturally problematic?** **(If needed, explain any answers in Remarks.)**

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	**Yes** ◉	**No** ○	
Hydric Soil Present?	**Yes** ○	**No** ◉	**Is the Sampled Area within a Wetland?** **Yes** ○ **No** ◉
Wetland Hydrology Present?	**Yes** ◉	**No** ○	

Remarks:
Sample located along eastern boundary.

VEGETATION - Use scientific names of plants.

	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
Tree Stratum (Plot size: 30 ft.)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
3.	0	☐ 0.0%	
4.	0	☐ 0.0%	
	0	**= Total Cover**	
Sapling/Shrub Stratum (Plot size: 15 ft.)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
3.	0	☐ 0.0%	
4.	0	☐ 0.0%	
5.	0	☐ 0.0%	
	0	**= Total Cover**	
Herb Stratum (Plot size: 5 ft.)			
1. Agrostis gigantea	30	☑ 32.3%	FAC
2. Juncus effusus	30	☑ 32.3%	FACW
3. Litter	15	☐ 16.1%	
4. Solidago canadensis	10	☐ 10.8%	FACU
5. Poa pratensis	5	☐ 5.4%	FAC
6. Cirsium arvense	3	☐ 3.2%	FAC
7.	0	☐ 0.0%	
8.	0	☐ 0.0%	
9.	0	☐ 0.0%	
10.	0	☐ 0.0%	
11.	0	☐ 0.0%	
	93	**= Total Cover**	
Woody Vine Stratum (Plot size:)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
	0	**= Total Cover**	

% Bare Ground in Herb Stratum: 0

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

	Total % Cover of:	Multiply by:	
OBL species	0	x 1 =	0
FACW species	30	x 2 =	60
FAC species	38	x 3 =	114
FACU species	10	x 4 =	40
UPL species	0	x 5 =	0
Column Totals:	78 (A)		214 (B)

Prevalence Index = B/A = 2.744

Hydrophytic Vegetation Indicators:

- ☐ **1 - Rapid Test for Hydrologic Vegetation**
- ☑ **2 - Dominance Test is > 50%**
- ☑ **3 - Prevalence Index is ≤3.0** [1]
- ☐ **4 - Morphological Adaptations** [1] **(Provide supporting data in Remarks or on a separate sheet)**
- ☐ **5 - Wetland Non-Vascular Plants** [1]
- ☐ **Problematic Hydrophytic Vegetation** [1] **(Explain)**

[1] **Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.**

Hydrophytic Vegetation Present? **Yes** ◉ **No** ○

Remarks:
Redtop and Baltic rush dominated this location.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: PFL 14

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)		%	Redox Features Color (moist)		%	Type[1]	Loc[2]	Texture	Remarks
0-3	10YR	3/1	100						silty clay loam	organic, rooty
3-12	10YR	4/2	94	10YR	4/6	3	C	M	Silty Clay Loam	mottles start at 3 inches
				10YR	5/2	3	C	M		
12-18+	10YR	4/2	87	10YR	4/6	8	C	M	Silty Clay Loam	increase mottles
				10YR	5/2	5	C	M		

[1]Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining. M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Muck Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1) (except in MLRA 1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox depressions (F8)

Indicators for Problematic Hydric Soils [3]:

- ☐ 2 cm Muck (A10)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? **Yes** ○ **No** ◉

Remarks:

Mottles at 3 inches.

Hydrology

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)
- ☐ Salt Crust (B11)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Stunted or Stressed Plants (D1) (LRR A)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
- ☐ Drainage Patterns (B10)
- ☐ Dry Season Water Table (C2)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☑ Geomorphic Position (D2)
- ☐ Shallow Aquitard (D3)
- ☑ FAC-neutral Test (D5)
- ☐ Raised Ant Mounds (D6) (LRR A)
- ☐ Frost Heave Hummocks (D7)

Field Observations:

Surface Water Present? **Yes** ○ **No** ◉ Depth (inches):

Water Table Present? **Yes** ○ **No** ◉ Depth (inches):

Saturation Present? (includes capillary fringe) **Yes** ○ **No** ◉ Depth (inches):

Wetland Hydrology Present? **Yes** ◉ **No** ○

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:

Remarks:

Two secondary indicators of wetland hydrology were observed at this sample location

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site: Printing for Less **City/County:** Livingston/Park **Sampling Date:** 26-Jun-19

Applicant/Owner: Printing for Less **State:** MT **Sampling Point:** PFL 15

Investigator(s): B Schultz **Section, Township, Range:** S 22 T 2 S R 9 E

Landform (hillslope, terrace, etc.): Undulating **Local relief (concave, convex, none):** none **Slope:** 0.0 % / 0.0 °

Subregion (LRR): LRR E **Lat.:** 45°39'10.70"N **Long.:** 110°36'8.20"W **Datum:** WGS 84

Soil Map Unit Name: Reedpoint-Tanna-Ethridge complex **NWI classification:** none

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ◉ No ○ **(If no, explain in Remarks.)**

Are Vegetation ☐ **, Soil** ☐ **, or Hydrology** ☐ **significantly disturbed?** **Are "Normal Circumstances" present?** Yes ◉ No ○

Are Vegetation ☐ **, Soil** ☐ **, or Hydrology** ☐ **naturally problematic?** **(If needed, explain any answers in Remarks.)**

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes ○ No ◉	**Is the Sampled Area within a Wetland?** Yes ○ No ◉
Hydric Soil Present? Yes ○ No ◉	
Wetland Hydrology Present? Yes ○ No ◉	

Remarks:
Sample located along eastern boundary.

VEGETATION - Use scientific names of plants.

	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
Tree Stratum (Plot size: 30 ft.)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
3.	0	☐ 0.0%	
4.	0	☐ 0.0%	
	0	**= Total Cover**	
Sapling/Shrub Stratum (Plot size: 15 ft.)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
3.	0	☐ 0.0%	
4.	0	☐ 0.0%	
5.	0	☐ 0.0%	
	0	**= Total Cover**	
Herb Stratum (Plot size: 5 ft.)			
1. Symphoricarpos albus	40	☑ 42.1%	FACU
2. Pascopyrum smithii	25	☑ 26.3%	FACU
3. Juncus balticus	10	☐ 10.5%	FACW
4. Solidago canadensis	10	☐ 10.5%	FACU
5. Cirsium arvense	5	☐ 5.3%	FAC
6. Stipa viridula	5	☐ 5.3%	UPL
7.	0	☐ 0.0%	
8.	0	☐ 0.0%	
9.	0	☐ 0.0%	
10.	0	☐ 0.0%	
11.	0	☐ 0.0%	
	95	**= Total Cover**	
Woody Vine Stratum (Plot size:)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
	0	**= Total Cover**	

% Bare Ground in Herb Stratum: 0

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

	Total % Cover of:	Multiply by:	
OBL species	0	x 1 =	0
FACW species	10	x 2 =	20
FAC species	5	x 3 =	15
FACU species	75	x 4 =	300
UPL species	5	x 5 =	25
Column Totals:	95 (A)		360 (B)

Prevalence Index = B/A = 3.789

Hydrophytic Vegetation Indicators:

- ☐ **1 - Rapid Test for Hydrologic Vegetation**
- ☐ **2 - Dominance Test is > 50%**
- ☐ **3 - Prevalence Index is ≤3.0** [1]
- ☐ **4 - Morphological Adaptations** [1] **(Provide supporting data in Remarks or on a separate sheet)**
- ☐ **5 - Wetland Non-Vascular Plants** [1]
- ☐ **Problematic Hydrophytic Vegetation** [1] **(Explain)**

[1] **Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.**

Hydrophytic Vegetation Present? Yes ○ No ◉

Remarks:
Dominated by snowberry and Baltic rush.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: PFL 15

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)		%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-3	10YR	4/1	100					Silty Clay Loam	powdery, friable
3-6	10YR	4/2	100					Silty Clay Loam	dry
6-18+	10YR	5/2	100					Silty Clay Loam	friable

[1]Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining. M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Muck Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1) (except in MLRA 1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox depressions (F8)

Indicators for Problematic Hydric Soils [3]:

- ☐ 2 cm Muck (A10)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ○ No ◉

Remarks:

No hydric soil indicators were observed at this sample location.

Hydrology

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)
- ☐ Salt Crust (B11)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Stunted or Stressed Plants (D1) (LRR A)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
- ☐ Drainage Patterns (B10)
- ☐ Dry Season Water Table (C2)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-neutral Test (D5)
- ☐ Raised Ant Mounds (D6) (LRR A)
- ☐ Frost Heave Hummocks (D7)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

Wetland Hydrology Present? Yes ○ No ◉

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:

Remarks:

No evidence of wetland hydrology was observed at this sample location.

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site: Printing for Less **City/County:** Livingston/Park **Sampling Date:** 26-Jun-19

Applicant/Owner: Printing for Less **State:** MT **Sampling Point:** PFL 16

Investigator(s): B Schultz **Section, Township, Range:** S 22 T 2 S R 9 E

Landform (hillslope, terrace, etc.): Undulating **Local relief (concave, convex, none):** none **Slope:** 0.0 % / 0.0 °

Subregion (LRR): LRR E **Lat.:** 45°39'13.27"N **Long.:** 110°36'15.76"W **Datum:** WGS 84

Soil Map Unit Name: reedpoint-Tanna-Ethridge complex **NWI classification:** none

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ◉ No ○ **(If no, explain in Remarks.)**

Are Vegetation ☐ **, Soil** ☐ **, or Hydrology** ☐ **significantly disturbed?** **Are "Normal Circumstances" present?** Yes ◉ No ○

Are Vegetation ☐ **, Soil** ☐ **, or Hydrology** ☐ **naturally problematic?** **(If needed, explain any answers in Remarks.)**

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ◉	No ○	
Hydric Soil Present?	Yes ◉	No ○	**Is the Sampled Area within a Wetland?** Yes ○ No ◉
Wetland Hydrology Present?	Yes ○	No ◉	

Remarks:
Sample located at toe slope along Business 90.

VEGETATION - Use scientific names of plants.

	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
Tree Stratum (Plot size: 30 ft.)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
3.	0	☐ 0.0%	
4.	0	☐ 0.0%	
	0	**= Total Cover**	
Sapling/Shrub Stratum (Plot size: 15 ft.)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
3.	0	☐ 0.0%	
4.	0	☐ 0.0%	
5.	0	☐ 0.0%	
	0	**= Total Cover**	
Herb Stratum (Plot size: 5 ft.)			
1. Poa pratensis	20	☑ 23.5%	FAC
2. Pascopyrum smithii	20	☑ 23.5%	FACU
3. Hordeum jubatum	15	☑ 17.6%	FAC
4. Agropyron intermedium	10	☐ 11.8%	UPL
5. Sonchus arvensis	10	☐ 11.8%	FACU
6. Solidago canadensis	5	☐ 5.9%	FACU
7. Iris missouriensis	5	☐ 5.9%	FACW
8.	0	☐ 0.0%	
9.	0	☐ 0.0%	
10.	0	☐ 0.0%	
11.	0	☐ 0.0%	
	85	**= Total Cover**	
Woody Vine Stratum (Plot size:)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
	0	**= Total Cover**	

% Bare Ground in Herb Stratum: 0

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)

Prevalence Index worksheet:

	Total % Cover of:	Multiply by:	
OBL species	0	x 1 =	0
FACW species	5	x 2 =	10
FAC species	35	x 3 =	105
FACU species	35	x 4 =	140
UPL species	10	x 5 =	50
Column Totals:	85 (A)		305 (B)

Prevalence Index = B/A = 3.588

Hydrophytic Vegetation Indicators:

- ☐ **1 - Rapid Test for Hydrologic Vegetation**
- ☑ **2 - Dominance Test is > 50%**
- ☐ **3 - Prevalence Index is ≤3.0** [1]
- ☐ **4 - Morphological Adaptations** [1] **(Provide supporting data in Remarks or on a separate sheet)**
- ☐ **5 - Wetland Non-Vascular Plants** [1]
- ☐ **Problematic Hydrophytic Vegetation** [1] **(Explain)**

[1] **Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.**

Hydrophytic Vegetation Present? Yes ◉ No ○

Remarks:
MIxed grasses were observed.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: PFL 16

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)		%	Redox Features Color (moist)		%	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR	4/1	100						Silty Clay Loam	dry
4-16	10YR	4/2	95	10YR	5/4	5	C	M	Silty Clay Loam	yellowish mottles

[1]Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining. M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Muck Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1) (except in MLRA 1)
- ☐ Loamy Gleyed Matrix (F2)
- ☑ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox depressions (F8)

Indicators for Problematic Hydric Soils [3]:

- ☐ 2 cm Muck (A10)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? **Yes** ◉ **No** ○

Remarks:

possible mixed profile close to the road?

Hydrology

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)
- ☐ Salt Crust (B11)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Stunted or Stressed Plants (D1) (LRR A)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
- ☐ Drainage Patterns (B10)
- ☐ Dry Season Water Table (C2)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-neutral Test (D5)
- ☐ Raised Ant Mounds (D6) (LRR A)
- ☐ Frost Heave Hummocks (D7)

Field Observations:

Surface Water Present? **Yes** ○ **No** ◉ Depth (inches):

Water Table Present? **Yes** ○ **No** ◉ Depth (inches):

Saturation Present? (includes capillary fringe) **Yes** ○ **No** ◉ Depth (inches):

Wetland Hydrology Present? **Yes** ○ **No** ◉

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:

Remarks:

No hydric soil indicators were observed at this locaiton.

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site: Printing for Less **City/County:** Livingston/Park **Sampling Date:** 26-Jun-19

Applicant/Owner: Printing for Less **State:** MT **Sampling Point:** PFL 17

Investigator(s): B Schultz **Section, Township, Range:** S 22 T 2 S R 9 E

Landform (hillslope, terrace, etc.): Undulating **Local relief (concave, convex, none):** none **Slope:** 0.0 % / 0.0 °

Subregion (LRR): LRR E **Lat.:** 45°39'12.97"N **Long.:** 110°36'15.75"W **Datum:** WGS 84

Soil Map Unit Name: reedpoint-Tanna-Ethridge complex **NWI classification:** PEMA

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ◉ No ○ **(If no, explain in Remarks.)**

Are Vegetation ☐ **, Soil** ☐ **, or Hydrology** ☐ **significantly disturbed?** **Are "Normal Circumstances" present?** Yes ◉ No ○

Are Vegetation ☐ **, Soil** ☐ **, or Hydrology** ☐ **naturally problematic?** **(If needed, explain any answers in Remarks.)**

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ◉ No ○	**Is the Sampled Area within a Wetland?**	Yes ◉ No ○
Hydric Soil Present?	Yes ◉ No ○		
Wetland Hydrology Present?	Yes ◉ No ○		

Remarks:
Sample located at toe slope along Business 90.

VEGETATION - Use scientific names of plants.

	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
Tree Stratum (Plot size: 30 ft.)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
3.	0	☐ 0.0%	
4.	0	☐ 0.0%	
	0	**= Total Cover**	
Sapling/Shrub Stratum (Plot size: 15 ft.)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
3.	0	☐ 0.0%	
4.	0	☐ 0.0%	
5.	0	☐ 0.0%	
	0	**= Total Cover**	
Herb Stratum (Plot size: 5 ft.)			
1. Agrostis gigantea	50	☑ 53.8%	FAC
2. Iris missouriensis	15	☐ 16.1%	FACW
3. Litter	10	☐ 10.8%	
4. Alopecurus arundinaceus	5	☐ 5.4%	FAC
5. Rosa woodsii	5	☐ 5.4%	FACU
6. Cynoglossum officinale	3	☐ 3.2%	FACU
7. Elymus lanceolatus	5	☐ 5.4%	FACU
8.	0	☐ 0.0%	
9.	0	☐ 0.0%	
10.	0	☐ 0.0%	
11.	0	☐ 0.0%	
	93	**= Total Cover**	
Woody Vine Stratum (Plot size:)			
1.	0	☐ 0.0%	
2.	0	☐ 0.0%	
	0	**= Total Cover**	

% Bare Ground in Herb Stratum: 0

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

	Total % Cover of:	Multiply by:	
OBL species	0	x 1 =	0
FACW species	15	x 2 =	30
FAC species	55	x 3 =	165
FACU species	13	x 4 =	52
UPL species	0	x 5 =	0
Column Totals:	83 (A)		247 (B)

Prevalence Index = B/A = 2.976

Hydrophytic Vegetation Indicators:

- ☐ **1 - Rapid Test for Hydrologic Vegetation**
- ☑ **2 - Dominance Test is > 50%**
- ☑ **3 - Prevalence Index is ≤3.0** [1]
- ☐ **4 - Morphological Adaptations** [1] **(Provide supporting data in Remarks or on a separate sheet)**
- ☐ **5 - Wetland Non-Vascular Plants** [1]
- ☐ **Problematic Hydrophytic Vegetation** [1] **(Explain)**

[1] **Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.**

Hydrophytic Vegetation Present? Yes ◉ No ○

Remarks:
Primarily redtop was observed at this sample location.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: PFL 17

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)		%	Redox Features Color (moist)		%	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR	4/1	100						Silty Clay Loam	dry, rooty
4-8	10YR	4/1	94	10YR	5/1	3	C	M	Silty Clay Loam	saturated
, saturate				10YR	4/6	3	C	M		
8-16	10YR	4/2	85	10YR	4/6	10	C	M	Silty Clay Loam	oxidized root zones? Calcium? Salts?
				10YR	6/1	5	C	M		

[1]Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining. M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Muck Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1) (except in MLRA 1)
- ☐ Loamy Gleyed Matrix (F2)
- ☑ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox depressions (F8)

Indicators for Problematic Hydric Soils [3]:

- ☐ 2 cm Muck (A10)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? **Yes** ◉ **No** ○

Remarks:

Salt concentrations on surface

Hydrology

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☑ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)
- ☐ Salt Crust (B11)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Stunted or Stressed Plants (D1) (LRR A)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
- ☐ Drainage Patterns (B10)
- ☐ Dry Season Water Table (C2)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☑ Geomorphic Position (D2)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-neutral Test (D5)
- ☐ Raised Ant Mounds (D6) (LRR A)
- ☐ Frost Heave Hummocks (D7)

Field Observations:

Surface Water Present?	**Yes** ○	**No** ◉	Depth (inches):	
Water Table Present?	**Yes** ○	**No** ◉	Depth (inches):	
Saturation Present? (includes capillary fringe)	**Yes** ◉	**No** ○	Depth (inches):	4

Wetland Hydrology Present? **Yes** ◉ **No** ○

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:

Remarks:

Saturated at 4 inches below ground surface

Appendix D

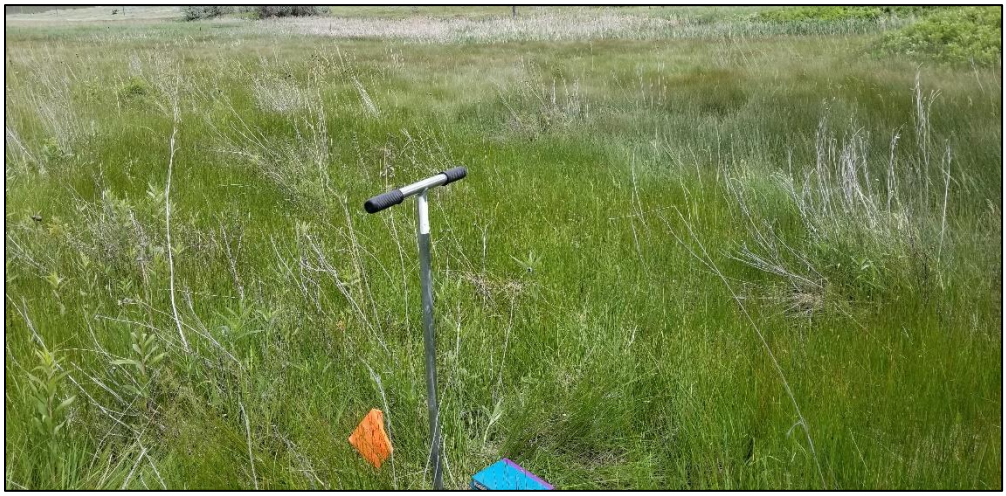
Printing for Less Wetland Delineation Site Photographs

(Data Points 1-3)

(Data Point 4)

(Data Point 5)

(Data Point 6)



(Data Point 7)

(Data Point 8)

(Data Point 9)

(Data Points 10-11)

(Data Point 12)

(Data Point 13)

(Data Point 14)

(Data Point 15)

(Data Point 16)

(Data Point 17)

)

SANDERSON STEWART

Billings
Bozeman
Denver
Fort Collins

June 21, 2022

Michael Tierney
Transportation Planning and Programming Division
Montana Department of Transportation
PO Box 201001
2960 Prospect Ave
Helena, MT 59620

Delivered via Email

Reference: Mountain View Subdivision, Livingston, Montana

Dear Mr. Tierney:

We are soliciting your comments regarding a proposed highway commercial subdivision within the City of Livingston. The project would create 39 lots, public right-of-way, and open space totaling 64 acres. These new lots would be served by the City of Livingston water and sanitary sewer systems.

The project is located within the Livingston city limits and will be accessed from Highway 10 via PFL Way and Antelope Drive. It is located on Section 22 of Township 02 South Range 09 East. Attached is the proposed subdivision vicinity map.

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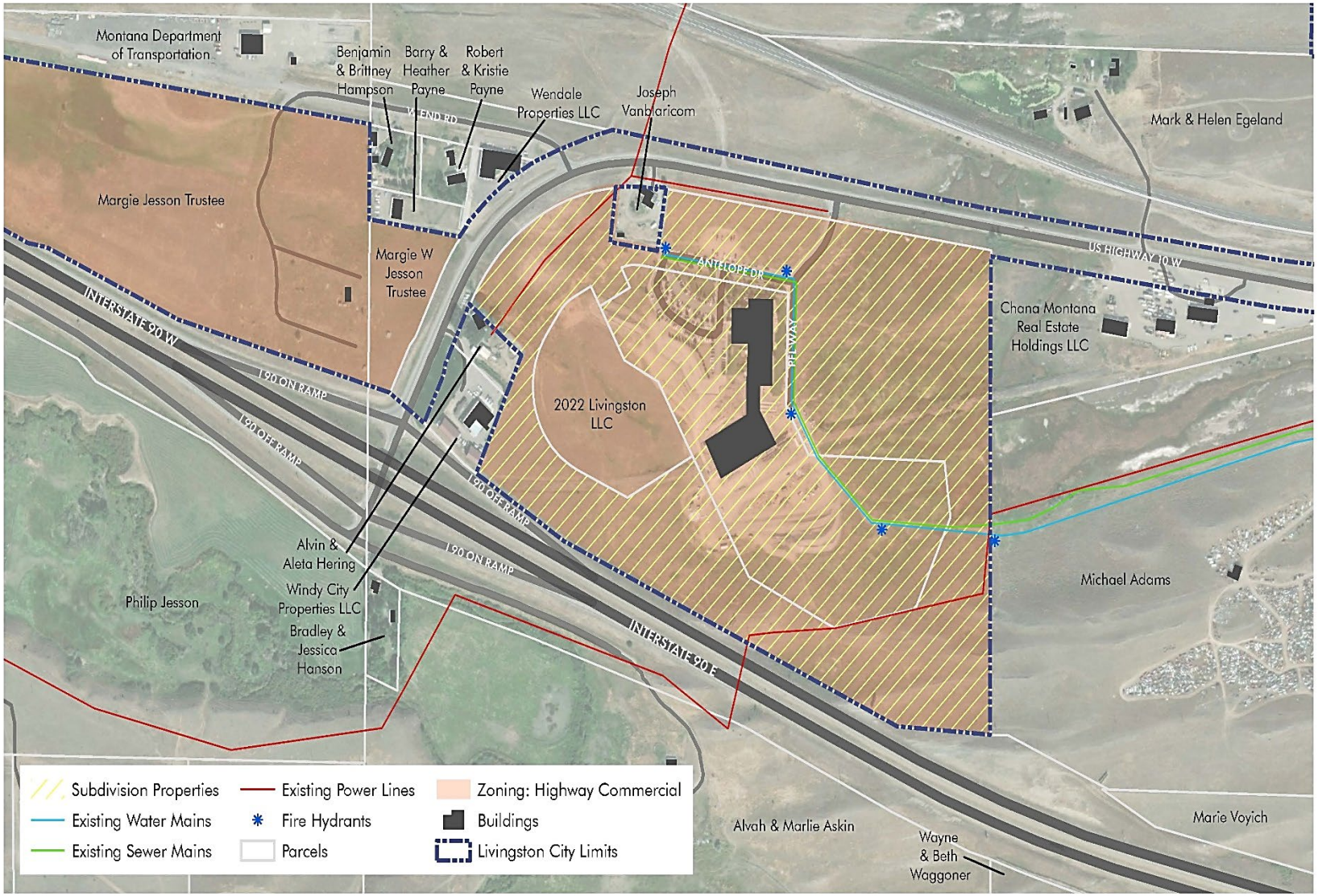
If you have and further questions or comments, please do not hesitate to call me at (406) 922-4311 or email at cnaumann@sandersonstewart.com.

Sincerely,

Chris Naumann
Associate | Senior Planner
Sanderson Stewart
106 East Babcock Street Suite L1
Bozeman MT 59715
cnaumann@sandersonstewart.com
ph: 406-922-4311



June 13, 2022

SANDERSONSTEWART

Livingston West Subdivision: Vicinity Map

MONTANA
Department of Transportation

Malcolm "Mack" Long, Director

2701 Prospect ▪ PO Box 201001
Helena MT 59620-1001

July 08, 2022

Chris Nauman
Associate | Senior Planner
Sanderson Stewart
106 East Babcock Street Suite L1
Bozeman, Mt, 59715

Subject: Mountain View Subdivision – Livingston – Hwy 10 W

Thank you for submitting information on the subject development to the Montana Department of Transportation (MDT). This development has been transferred to the Systems Impact Action Process (SIAP). In order to move forward with the review process, we require the following materials and information that can be found in the SIAP Developers Guide (https://www.mdt.mt.gov/other/webdata/external/planning/SIAP-DEVELOPERS-GUIDE/siap_guide.pdf):

1. MDT requires a complete Traffic Impact Study (TIS) based on the development at full build out that studies the traffic distribution and impacts this development will place on state and local roads. The study area must adequately include all known and existing development in the area. The TIS must identify and propose any mitigation necessary to maintain levels of service and safety. Be sure to contact MDT to discuss TIS requirements prior to preparing this document for MDT review. Please refer to the SIAP Developers Guide page 20.

2. The developer must submit a hydraulics report. The hydraulic report will need to include all items identified in the Hydraulics checklist on page 19 of the SIAP Developer's Guide.

3. The developer must provide copies of any State or Federal agency permit(s) required for this development.

4. If requested, MDT will conduct a scoping meeting to discuss design of all identified mitigations once the TIS is approved. The developer will be required to design, construct, and fund all mitigations. MDT will also need to review and approve any plans designed for the construction of the approaches.

5. If needed, MDT will request geometric plans and construction details for review once we have conceptual agreement on the approach location and any required mitigations along US Hwy 10 W.

6. All utility permitting will need to be processed through the UPAS system available in the link below. If you have questions about submitting a permit through the UPAS system, please contact Denis Casey, Butte Utility Agent, at (406) 494-9619.

   https://www.mdt.mt.gov/upas/

Please provide the materials requested above and any other information concerning impacts to the State highway system for MDT review. You can contact me at (406) 444-9342 if you have any questions or if you need additional information.

Sincerely,

Lonnie Von Oesen
Planner – Policy, Program & Performance Analysis

copies: Bill Fogarty, Butte District Administrator
Kyle DeMars, Bozeman Division Maintenance Chief
Dave Gates, Butte District Engineering Services Supervisor
Kristina Kilts, Bozeman District Traffic Engineer

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Billings
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Fort Collins

June 21, 2022

Ms. Julie Cunningham
Wildlife Biologist
Montana Fish, Wildlife, and Parks 1400 S. 19th Avenue
Bozeman, MT 59718

Delivered via Email

Reference: Mountain View Subdivision, Livingston, Montana

Dear Ms. Cunningham:

We are soliciting your comments regarding a proposed highway commercial subdivision within the City of Livingston. The project would create 39 lots, public right-of-way, and open space totaling 64 acres. These new lots would be served by the City of Livingston water and sanitary sewer systems.

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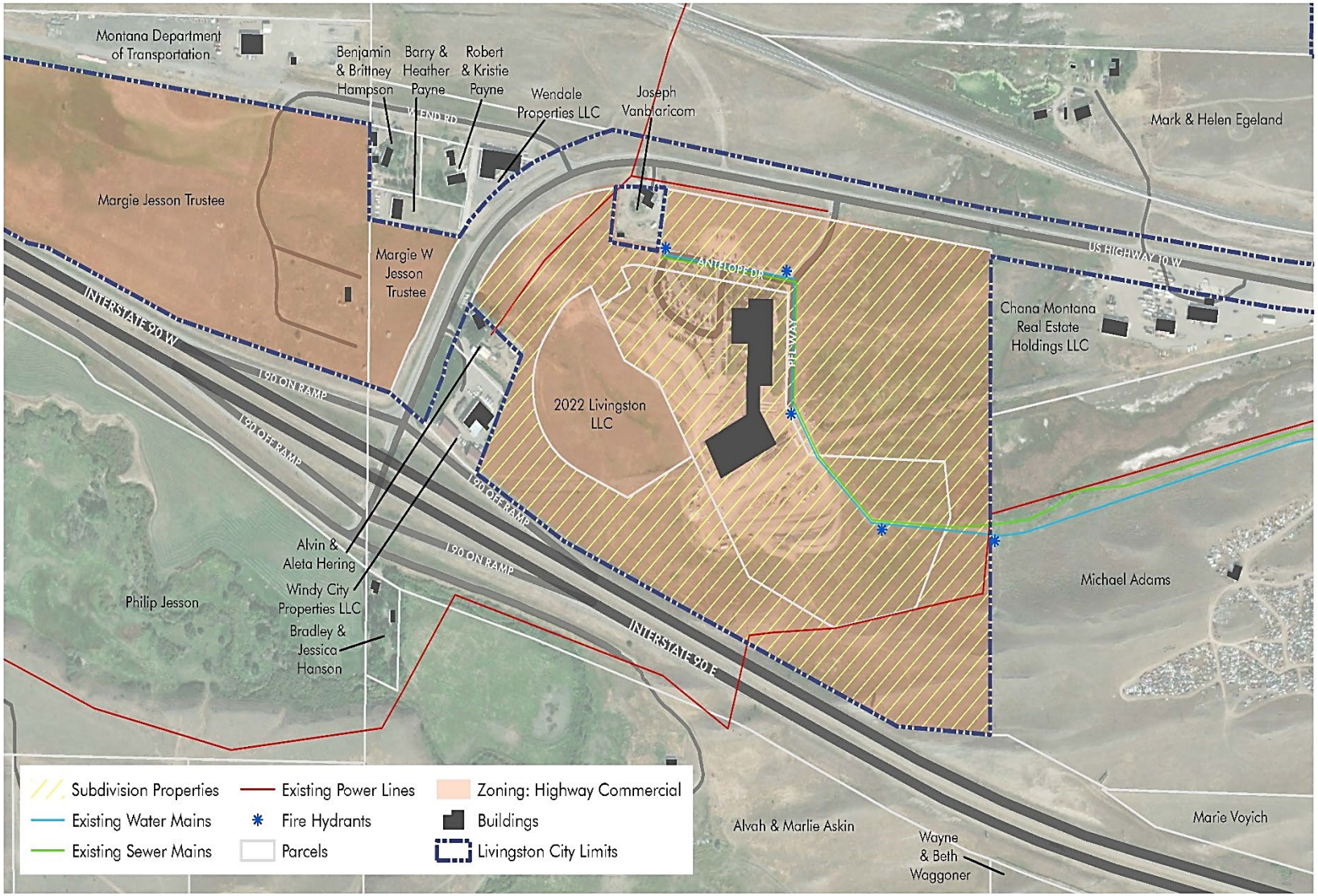
Sincerely,

Chris Naumann
Associate | Senior Planner
Sanderson Stewart
106 East Babcock Street Suite L1
Bozeman MT 59715
cnaumann@sandersonstewart.com
ph: 406-922-4311



June 13, 2022

SANDERSONSTEWART

Livingston West Subdivision: Vicinity Map

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June 21, 2022

Pete Brown
State Historic Preservation Officer
Montana Historical Society
225 North Roberts
P.O. Box 201201
Helena, MT 59620-1201

Delivered via Email

Reference: Mountain View Subdivision, Livingston, Montana

Dear Mr. Brown:

We are soliciting your comments regarding a proposed highway commercial subdivision within the City of Livingston. The project would create 39 lots, public right-of-way, and open space totaling 64 acres. These new lots would be served by the City of Livingston water and sanitary sewer systems.

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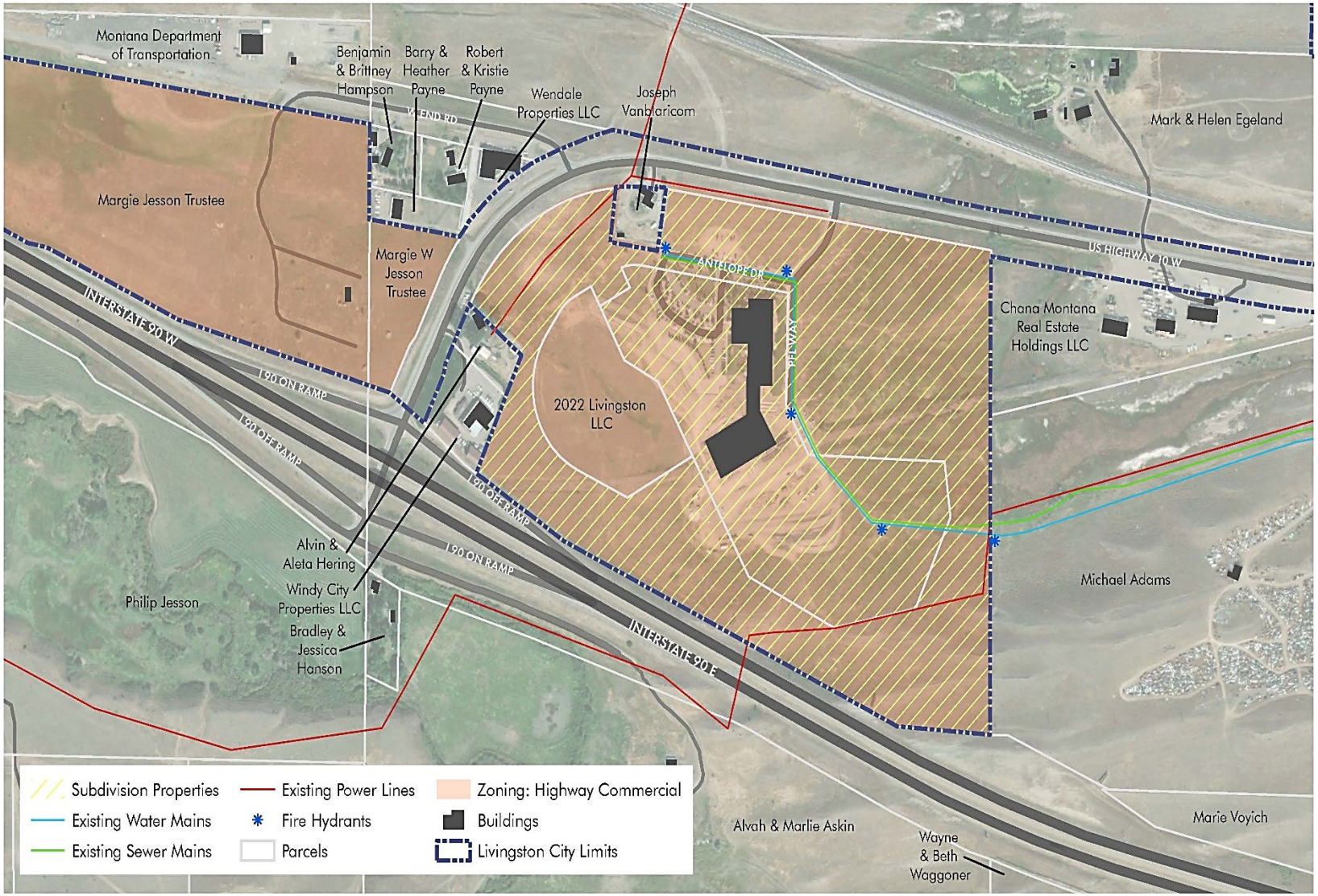
Sincerely,

Chris Naumann
Associate | Senior Planner
Sanderson Stewart
106 East Babcock Street Suite L1
Bozeman MT 59715
cnaumann@sandersonstewart.com
ph: 406-922-4311



June 13, 2022

SANDERSONSTEWART

Livingston West Subdivision: Vicinity Map

From: Murdo, Damon
To: Chris Naumann
Subject: MOUNTAIN VIEW SUBDIVISION, LIVINGSTON
Date: Tuesday, June 21, 2022 5:01:02 PM
Attachments: 2022062105.pdf
Reports.pdf

Big Sky. Big Land. Big History.
Montana
Historical Society

June 21, 2022

Chris Naumann
Sanderson Stewart
106 East Babcock Street Suite L1
Bozeman MT 59715

RE: MOUNTAIN VIEW SUBDIVISION, LIVINGSTON. SHPO Project #: 2022062105

Dear Mr. Naumann:

I have conducted a cultural resource file search for the above-cited project located in Section 22, T2S R9E. According to our records there have been no previously recorded sites within the designated search locale. However, there have been a few previously conducted cultural resource inventories done in the areas. I've attached a list of these reports. If you would like any further information regarding these reports, you may contact me at the number listed below.

It is SHPO's position that any structure over fifty years of age is considered historic and is potentially eligible for listing on the National Register of Historic Places. If any structures are within the Area of Potential Effect, and are over fifty years old, we would recommend that they be recorded, and a determination of their eligibility be made prior to any disturbance taking place.

Based on previous survey within the project area we feel that there is a low likelihood cultural properties will be impacted. We, therefore, feel that a recommendation for a cultural resource inventory is unwarranted at this time. However, should structures need to be altered or if cultural materials are inadvertently discovered during this project, we would ask that our office be contacted, and the site investigated.

If you have any further questions or comments, you may contact me at (406) 444-7767 or by e-mail at dmurdo@mt.gov. I have attached an invoice for the file search. Thank you for consulting with us.

Sincerely,

Damon Murdo
Cultural Records Manager
State Historic Preservation Office
File: LOCAL/SUBDIVISIONS/2022

PA

6 027162

6 027162

ANTHRO RESEARCH
INCORPORATED
LARRY A. LAHREN PH.D.
Mailing Address: P.O. Box 1218
Physical Address: 53 Mission Meadow Road
Livingston, MT 59047
(406) 222-3168 (Phone/Fax) • (406) 223-3168 (Cell)
www.larrylahren.com "Since 1971" Email: larrylahren@msn.com

Cultural Resource Evaluations of the Proposed Printing For Less Facility
Park County, Montana
SHPO Project: 2003111204
Legal Location: SW of the NW ¼ of Section 22, T. 2S, R.9E, Park County, Montana.
70.78 acres

Overview

Printing for Less, a Livingston, Montana commercial entity and the body politic of Park County, Montana are considering the purchase of 70.78 acres of land on the western edge of Livingston, Montana. Since federal funds will be used for the purchase of the subject property, the Montana State Historic Preservation Office in Helena, Montana recommended that a cultural resource inventory and evaluation be conducted to comply with Section 106 of the National Historic Preservation Act.

On December 1, 2003, Dan Rice, Director of Development for Printing for Less contracted Anthro Research Inc. to conduct a cultural resource evaluation of the subject property.

File Search and Field Methods

A file and literature search was conducted at the Montana State Historic Preservation Office, the University of Montana, the Montana Department of Transportation and the office of Anthro Research Inc.

Field reconnaissance of the project area was conducted on December 7–8, 2003 in snow-free conditions by Larry Lahren and Tom Jerde. Lineal transects, spaced at 50- 100 meters, were walked over the project area surface.

Research Findings

Historic Resources

The file and literature search did not indicate that any cultural resource sites have been located or recorded within the subject area. Since a portion of former U.S. Highway 10 is located on the project area, Montana Department of Transportation historian, Jon Axline was consulted and provided the following information:

" U.S. Highway 10 originated as a county road and was incorporated into the Yellowstone Trail in the vicinity of Livingston in 1913 The following year, the Yellowstone Trail Association decided to extend the trail west of Livingston to the Pacific Coast. Also in 1914, the road became an official state highway. In 1922, it became a Federal Aid highway (making it eligible for federal funds) and in 1926 it was designated U.S. Highway 10 It appears, though, that no improvement projects were initiated on it until 1929. That year the MDT spent $108,155.21 to improve 11.5 miles from Livingston west to the county line. The project consisted of grading and surfacing the road with gravel. That segment of the road was given a bituminous (asphalt) overlay sometime between 1932 and 1935. There were improvement projects on that section in 1949 and again in 1952. It was by-passed by Interstate 90 in 1962.

Recommendations

Although National Register eligibility has not been determined for historic roads and bridges, the SHPO recommends the recording and assignment of site numbers for historic roads and bridges. This task will be completed by Anthro Research Inc. as part of this project.

Prehistoric Resources

Although surface reconnaissance evaluations of the project area did not result in the location or indication of any prehistoric sites, portions of the project area along the spring system may contain buried sites or features.

Recommendations

Since the file and literature search and surface reconnaissance evaluations of the proposed Print for Less/Park County project did not result in the location of any National Register properties, project approval is recommended with the provision that archaeological monitoring be coordinated with the contractor and conducted during the construction process.

Larry A. Lahren Ph.D
Principal Investigator
Date of Report: January 16, 2004

SANDERSON STEWART

Billings
Bozeman
Denver
Fort Collins

June 21, 2022

Matt Fettig, PE
Manager of District Operations - Livingston
Northwestern Energy
224 S. B St.
Livingston, MT 59047

Delivered via Email

Reference: Mountain View Subdivision, Livingston, Montana

Dear Mr. Fettig:

We are soliciting your comments regarding a proposed highway commercial subdivision within the City of Livingston. The project would create 39 lots, public right-of-way, and open space totaling 64 acres. These new lots would be served by the City of Livingston water and sanitary sewer systems.

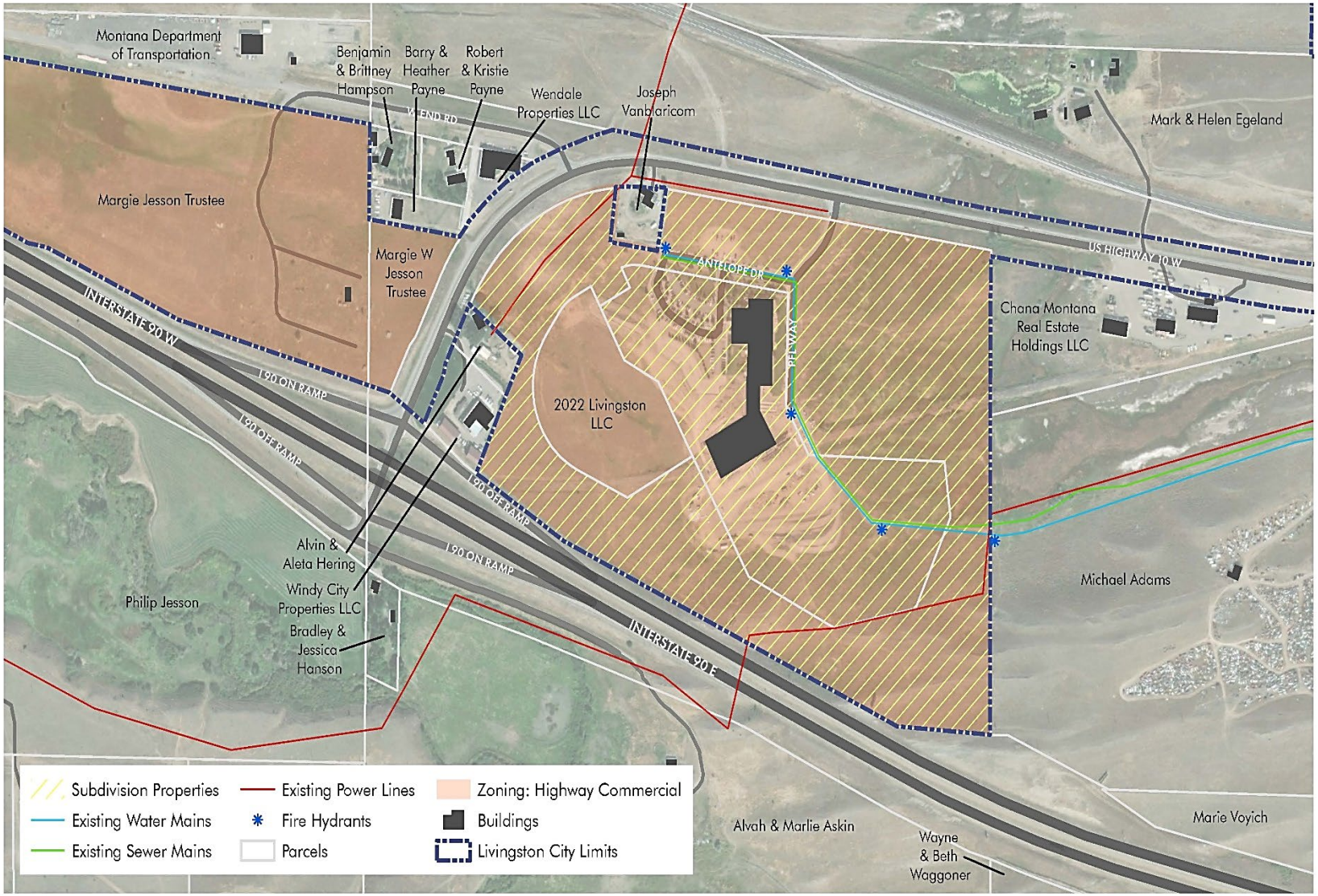
The project is located within the Livingston city limits and will be accessed from Highway 10 via PFL Way and Antelope Drive. It is located on Section 22 of Township 02 South Range 09 East. Attached is the proposed subdivision vicinity map.

As part of the subdivision application process, we are soliciting comments you may have regarding the proposed subdivision. Should you have any comments or questions, we would appreciate a written response to this letter delivered by email no later than June 28, 2022.

If you have and further questions or comments, please do not hesitate to call me at (406) 922-4311 or email at cnaumann@sandersonstewart.com.

Sincerely,

Chris Naumann
Associate | Senior Planner
Sanderson Stewart
106 East Babcock Street Suite L1
Bozeman MT 59715
cnaumann@sandersonstewart.com
ph: 406-922-4311



June 13, 2022

SANDERSONSTEWART

Livingston West Subdivision: Vicinity Map

NorthWestern Energy
Delivering a Bright Future

June 21, 2022

Chris Naumann
Sanderson Stewart – Senior Planner
106 E Babcock St. – Suite L1
Bozeman, MT 59718

Dear Chris,

Northwestern Energy is willing and able to provide electric and natural gas services to the proposed Mountain View Subdivision in Livingston, MT near the West Interchange and 100 PFL Way. The area in question consists of portions of T2S, R9E, S22.

These services will be provided in accordance with applicable Montana Public Services rules and regulations and the current Northwestern Energy tariff schedule. NWE has both underground and overhead electric, as well as gas distribution in and around the project area.

Northwestern Energy shall determine the locations of all transformers, underground lines and equipment for proper installation and maintenance. These facilities shall be located on front lot lines in the utility easement right-of-way unless otherwise approved by both parties.

As the project gets closer to approved plat and a finalized development plan, please reach out to NWE directly in order to start the utility planning, design and sizing process for your development. Please feel free to contact me if you have any questions or require any additional information.

Sincerely,

Matt Fettig

Matt Fettig
Livingston District Manager
matthew.fettig@northwestern.com
224 S. B St.
Livingston, MT 59047
406-582-4606

SANDERSON STEWART

Billings
Bozeman
Denver
Fort Collins

June 21, 2022

Matt Grose
Park Electric Cooperative
P.O. Box 1119
5706 U.S. Hwy 89 South
Livingston, MT 59047-1119

Delivered via Email

Reference: Mountain View Subdivision, Livingston, Montana

Dear Mr. Grose:

We are soliciting your comments regarding a proposed highway commercial subdivision within the City of Livingston. The project would create 39 lots, public right-of-way, and open space totaling 64 acres. These new lots would be served by the City of Livingston water and sanitary sewer systems.

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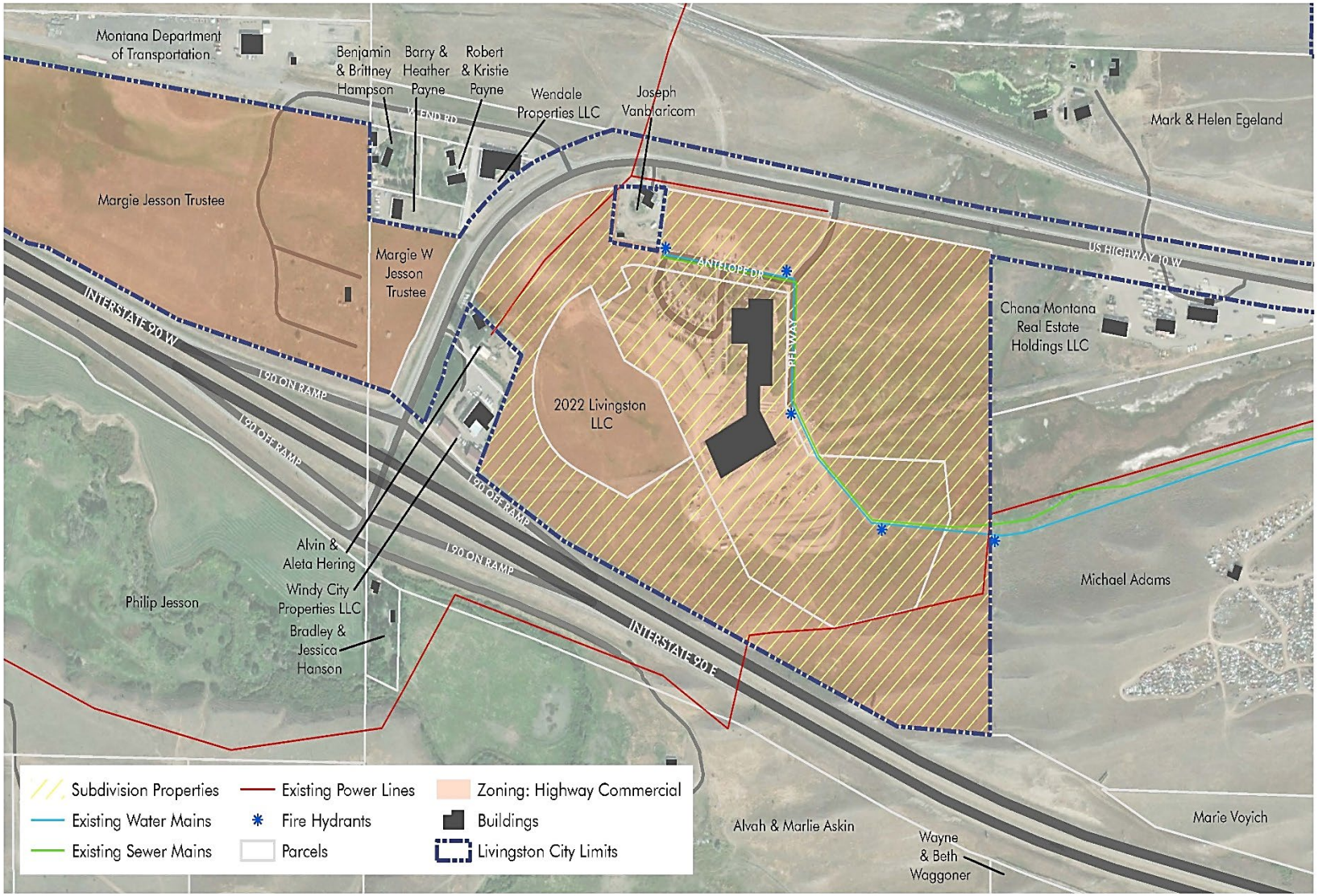

June 13, 2022

SANDERSONSTEWART

Livingston West Subdivision: Vicinity Map

SANDERSON STEWART

Billings
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June 21, 2022

Jana Jones
CenturyLink
Bozeman Region

Delivered via Email

Reference: Mountain View Subdivision, Livingston, Montana

Dear Ms. Jones:

We are soliciting your comments regarding a proposed highway commercial subdivision within the City of Livingston. The project would create 39 lots, public right-of-way, and open space totaling 64 acres. These new lots would be served by the City of Livingston water and sanitary sewer systems.

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Sincerely,

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Sanderson Stewart
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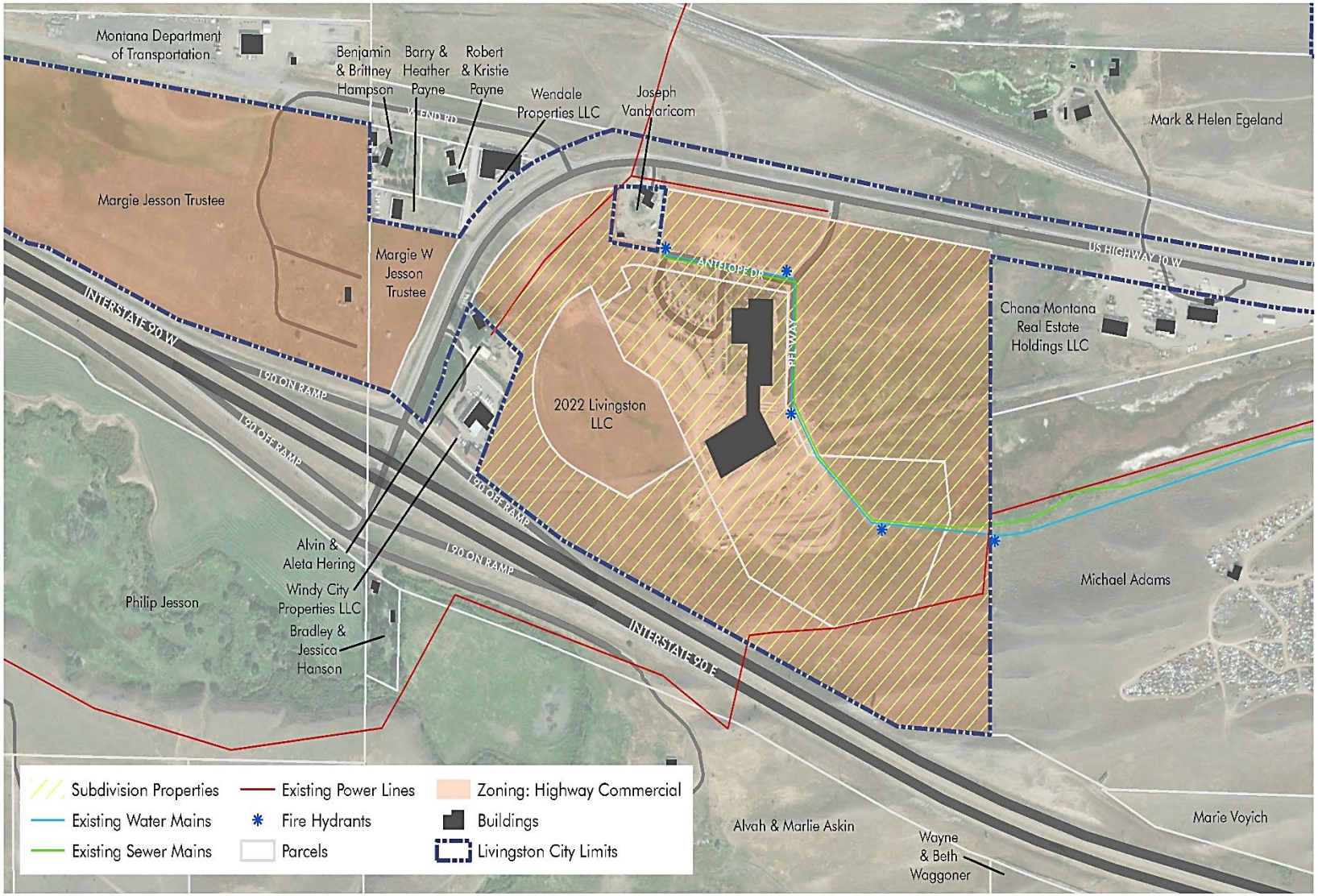
ph: 406-922-4311



June 13, 2022

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Livingston West Subdivision: Vicinity Map

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Billings
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June 21, 2022

Bradley Anderson
UNITED STATES POSTAL SERVICE
Livingston Post Office
105 N 2ND ST FL 1
LIVINGSTON, MT 59047-9998

Delivered via Email

Reference: Mountain View Subdivision, Livingston, Montana

Dear Mr. Anderson:

We are soliciting your comments regarding a proposed highway commercial subdivision within the City of Livingston. The project would create 39 lots, public right-of-way, and open space totaling 64 acres. These new lots would be served by the City of Livingston water and sanitary sewer systems.

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Sanderson Stewart
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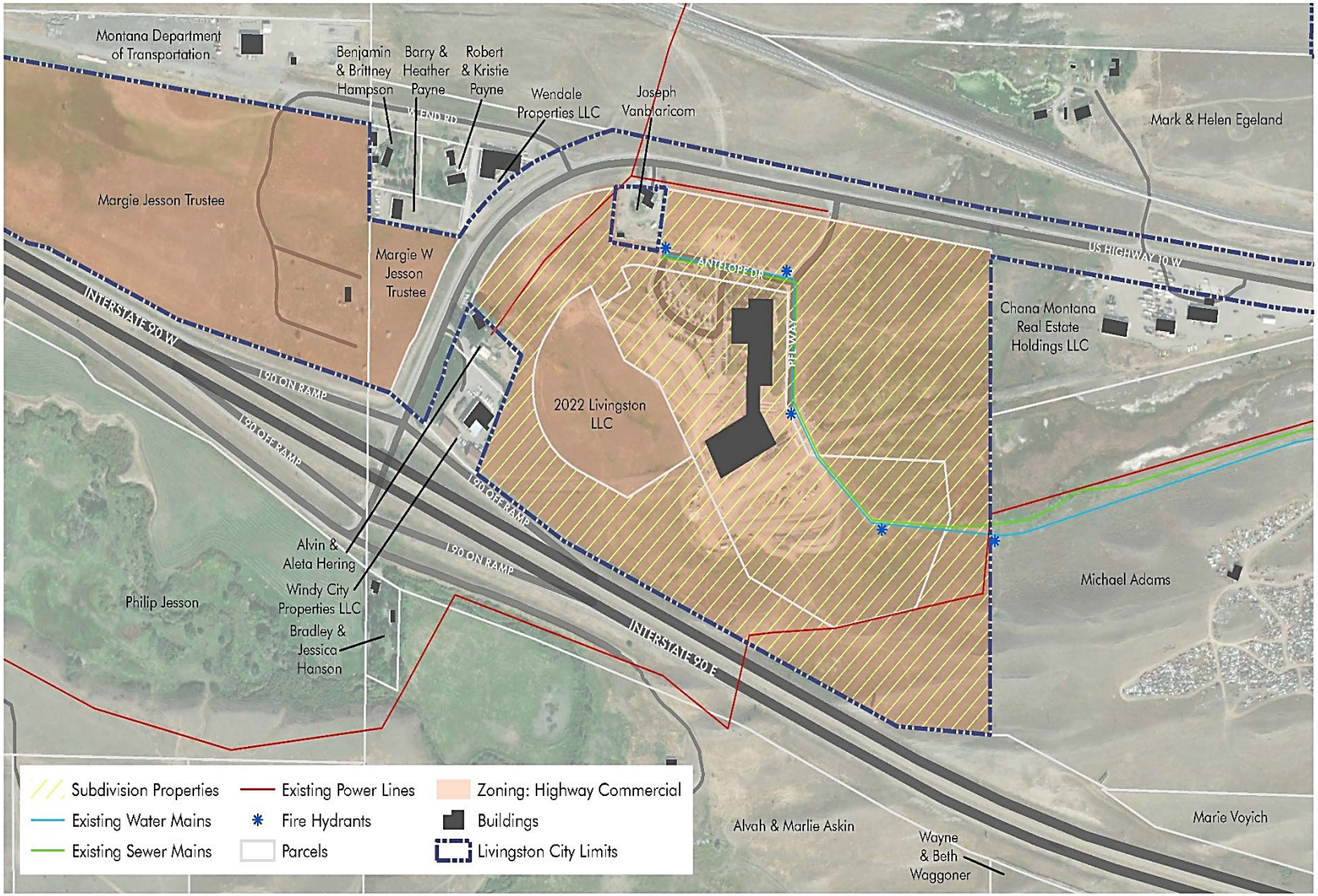
ph: 406-922-4311



June 13, 2022

SANDERSONSTEWART

Livingston West Subdivision: Vicinity Map

UNITED STATES
POSTAL SERVICE

To Whom it may concern:

This letter is concerning the Mountain View subdivision. A central bank of mailboxes will need to be located/installed to provide mail delivery for the entire subdivision. This is on a contract route. We need to keep from adding milage to keep the USPS cost of these deliveries down.
If you have any questions, please call (406) 222-3458. Thank You for your patronage.

Sincerely,

Penny Simmons
Supervisor Customer Service
230 Jefferson ST
Livingston MT 59047