



City of Sidney, MT
Water and Sewer Committee Meeting
March 24, 2025 5:30 PM
115 2nd Street SE |Sidney, MT 59270

The City Council meetings are open to the public attending in person, with masks encouraged when social distancing cannot be accomplished. If the public does not wish to participate in person, they are also invited to participate via a Zoom meeting. You can participate via phone:

Meeting ID: 713 080 5898 Passcode: 4332809 Call: 1-346-248-7799

1. New Business

- a. North Park Water Tower Replacement-Authorization to Advertise for Bids for Phase II
- [b.](#) Meadow Village Storm Water Project and Amendment 2 Morrison Maierle to contract
- [c.](#) Anderson Drainage Improvements Proposal

**AMENDMENT NO. 2 TO STANDARD AGREEMENT
BETWEEN CLIENT AND MORRISON-MAIERLE, INC.**

Project Number 0717.031

1. Background Data:

- a. Effective date of CLIENT-MORRISON-MAIERLE, INC. Agreement: July 18, 2022
- b. CLIENT: City of Sidney
- c. CONSULTANT: Morrison-Maierle, Inc.
- d. Project: Meadows Flood Mitigation Project

2. Nature of Amendment: *[Check those that are applicable.]*

- Additional Services to be performed by CONSULTANT
- Modifications to Services of CONSULTANT
- Modifications to Responsibilities of CLIENT
- Modifications to Payment to CONSULTANT
- Modifications to Time(s) for rendering Services
- Modifications to other terms and conditions of the Agreement

3. Description of Modifications

- Attachment 1, "Modifications"
- Other attachments as listed below:
 - 1) Amendment 2 Scope of Services

ATTACHMENT 1

This is **Attachment 1**, consisting of 1 Page(s), to Amendment No.2, Dated 03/17/25.

Modifications

- A1. CONSULTANT shall perform the following Additional Services:

See attached scope of services dated 3/11/2025 for amendment scope.
- A2. The Scope of Services currently authorized to be performed by CONSULTANT in accordance with the Agreement and previous amendments, if any, is modified as follows:
- A3. The responsibilities of CLIENT are modified as follows:
- A4. For the Additional Services or the modifications to services set forth above, CLIENT shall pay CONSULTANT the following additional or modified compensation:

Original Contract Ceiling: \$185,346.00
Contract Ceiling with Amendment 1: \$193,602.00
Amendment 2 Additional Estimated Fee: \$60,693.00
New Contract Ceiling: \$254,295.00
- A5. The schedule for rendering services is modified as follows:

Final Design Services: Spring 2025
Bidding Services: Spring 2025
Construction Administration Services: Summer to Fall 2025
- A6. Other portions of the Agreement (including previous amendments, if any) are modified as follows:

CLIENT and CONSULTANT hereby agree to modify the above-referenced Agreement as set forth in this Amendment. All provisions of the Agreement not modified by this or previous Amendments remain in effect. The Effective Date of this Amendment is March 17, 2025.

CLIENT:

City of Sidney _____

Signed: _____

By: Rick Norby _____

Title: Mayor _____

Contact Information and Address for giving notices:

Jeff Hintz, Public Works Director _____

115 2nd St SE _____

Sidney, MT 59270 _____

Email: publicworks@cityofsidney.org _____

Phone: (406) 480-5008 _____

Address for Invoices (if different)

Jessica Chamberlin _____

clerktreasurer@cityofsidneymt.com _____

Version 12/2/2021

CONSULTANT:

Morrison-Maierle, Inc. _____

Signed: Jill A. Cook _____

By: Jill Cook, PE _____

Title: Vice President _____

Contact Information and Address for giving notices:

John Heine, PE, CFM _____

315 North 25th Street, Suite 102 _____

Billings, MT 59101 _____

Email: jheine@m-m.net _____

Phone: (406) 237-1246 _____

**AMENDMENT 2
SCOPE OF SERVICES**
City of Sidney
Meadows Flood Mitigation Project
March 11, 2025

Background

The Meadows Subdivision is in the lower reaches of a large drainage basin, nearly 1,000 acres in size. This basin captures runoff from a large area of foothills northwest of Sidney and is conveyed into an 18-inch storm drain discharging into the nearby Lower Yellowstone Irrigation Canal. Flow is captured and attenuated in a detention pond before it is conveyed via open channels through the neighborhood and into the irrigation canal. The open channel splits in multiple locations within the neighborhood, which allows some flow from the detention pond to discharge to the north and out of the subdivision. The primary open channel ends at Sunflower Lane, a street running adjacent to the canal. Runoff ponds along Sunflower Lane due to the undersized outlet pipe into the canal and regularly threatens to flood homes within the neighborhood.

Rate Increases

The Meadows Flood Mitigation Project was originally contracted to be completed in 2022 and 2023 according to the following schedule, however, in 2022 Morrison-Maierle only received notice to proceed for 30% design until the BRIC grant was awarded. Construction was assumed to be completed no earlier than fall of 2023. The fee estimate for the original contract was developed using Morrison-Maierle’s 2022 Standard Rate Schedule without escalation for work that was to be completed after 2022.

Milestone	Date
Begin Design and Grant App	July 2022
30% Construction Drawings	Sep 2022
BRIC Application due	Dec 2022
90% Construction Drawings	Feb 2023
BRIC Funding Announcement	July 2023
100% Construction Drawings	Aug 2023

The project team successfully acquired a BRIC grant to fund engineering and construction costs for the project, which was awarded in June of 2024. Morrison-Maierle began final design services after a kickoff meeting with the City of Sidney (City) on November 18, 2024 and invoiced the City for approximately \$9,000 for engineering services during 2024. The remainder of the engineering fee for the project has been or is expected to be expended during 2025 as final design and bidding is completed in the spring and construction occurs during summer and fall.

We create solutions that build better communities

Morrison-Maierle's standard schedule increased by an average 14.5% from 2022 to 2024 and 18.4% from 2022 to 2025 for the positions used for fee development on the Meadows project. Our standard equipment and labor rate schedules are attached for reference. The additional labor and expense costs below show the fee increase for work done during 2024 and 2025 with the adjusted rates for those years, respectively. Amendment 2 increases the fee for the project by \$23,293 for these rate increases.

PHASE	ADDITIONAL LABOR COST	ADDITIONAL DIRECT EXPENSE COST	TOTAL ADDITIONAL PHASE COST
RATE INCREASES (2022 TO 2024, 14.5% Avg)			
Task 010 (PM)	\$213	\$0	\$213
Task 040 (Final Design)	\$1,062	\$0	\$1,062
2024 Rate Increases Subtotal	\$1,274	\$0	\$1,274
RATE INCREASES (2022 TO 2025, 18.4% Avg)			
Task 010 (PM)	\$1,282	\$44	\$1,326
Task 020 (Survey)	\$504	\$0	\$504
Task 030 (Environmental)	\$558	\$0	\$558
Task 040 (Final Design)	\$5,704	\$144	\$5,848
Task 045 (Bidding)	\$2,174	\$784	\$2,958
Task 050 (Construction Administration)	\$7,826	\$2,999	\$10,825
2025 Rate Increases Subtotal	\$18,048	\$3,971	\$22,019

Additional Modeling Effort

Morrison-Maierle developed a hydrologic and hydraulic (H&H) model to evaluate the amount of runoff that the Meadows basin generates during rain events, modifications made to the existing detention pond in the Meadows Subdivision to reduce peak flow rates, and storm drains that will be constructed by the project to reduce flooding in the neighborhood. In order to reduce pipe sizes, and therefore reduce construction costs for the project, we included additional existing stock ponds in the upper reaches of the basin and flow splits within the neighborhood that reduce peak flow rates and divert some flow out of the neighborhood, respectively. These model additions required additional effort beyond what was originally scoped.

The additional labor costs below show the fee increase required for the additional modeling effort. This work was a change in effort due to the additional modeling complexities beyond what was originally anticipated. Amendment 2 increases the fee for the project by \$13,100 for the additional modeling required during final design.

PHASE	ADDITIONAL LABOR COST	ADDITIONAL DIRECT EXPENSE COST	TOTAL ADDITIONAL PHASE COST
ADDITIONAL MODELING EFFORT (NO SCOPE CHANGE)			
Task 040 - Final Design Modeling	\$13,100	\$0	\$13,100
Modeling Subtotal	\$13,100	\$0	\$13,100

Additional Services

Amendment 2 also modifies the original scope of work to include the following Additional Services:

Addition to Task 040 – Separate Drawing Packages

The City has elected to self-perform the detention pond improvements for the project in partnership with Richland County. Additional effort is required to separate the plan set for the project to develop a drawing package for the detention pond improvements constructed by the City/County and a drawing package for the storm drain improvements constructed by a contractor. Additional effort is also required to separate the bid items from the bid form, measurement and payment specification, etc. Morrison-Maierle will submit separate construction drawings at the 100% submittal stage for the detention pond improvements and storm drain improvements so they can be constructed by the City/County and contractor, respectively. The following assumptions apply to this additional work.

- 1) One specification set/project manual for the storm drain improvements will be submitted for the 100% submittal.
- 2) No specifications/project manuals will be developed for the detention pond improvements which are expected to be self-performed by the City/County. Montana Public Works Standard Specifications will apply to that work.
- 3) Two opinions of construction cost will be provided for the 100% submittal. Both will be developed using contractor furnished unit prices.
- 4) No changes are expected for Task 045 – Bidding. Only the storm drain project will be bid.

Addition to Task 040 – USBR Coordination and Permit Application

Much of the storm drain for the project will be constructed directly adjacent to the Lower Yellowstone Irrigation Canal. The original scope for the project included coordination with the Lower Yellowstone Irrigation Project but the property is actually owned by the United States Bureau of Reclamation (USBR). The USBR requires a permit for constructing the project on

Federal property. Morrison-Maierle will submit a permit application to the USBR using SF299. The following assumptions apply to this additional work.

- 1) Morrison-Maierle will spend no more than 28 hours developing the application, submitting the application, and coordinating with the USBR to obtain the permit. This includes time required for plan and/or specification changes required by the USBR.

Construction Staking and Record Survey

The original contract scope did not include construction staking or a record survey, which are required for the project to be constructed and recorded. Morrison-Maierle will provide personnel, equipment, and supplies for construction layout and control. Construction layout will include layout, measurements, lines, locations, and grades necessary for construction of the storm drain and detention pond improvements. Staking shall include centerline locations and offsets for the principal components of the work and intermediate points at approximately 100 feet between principal components for the facilities. Survey will reference and preserve all existing survey monuments and benchmarks. The record survey will verify the final grading of the detention pond is done in conformance with the project drawings and verify locations and elevations of storm drain infrastructure. All monuments required within the project will be punched and elevations shown on as-built drawings. The following assumptions apply to this additional work.

- 1) Morrison-Maierle will mobilize up to four times from Billings; three times for construction staking and once for the record survey. If timing allows, we will stake both the storm drain and detention pond improvements during the same trip(s).

The additional labor costs below show the fee increase required for these additional services. Amendment 2 increases the fee for the project by \$24,700 for the additional services.

PHASE	ADDITIONAL LABOR COST	ADDITIONAL DIRECT EXPENSE COST	TOTAL ADDITIONAL PHASE COST
ADDITIONAL SERVICES (SCOPE CHANGE)			
Task 040 - Separate Drawing Packages	\$3,000	\$0	\$3,000
Task 040 - USBR Coordination and Permit Application	\$5,100	\$100	\$5,200
Task 050 - Construction Staking and Record Survey	\$11,300	\$4,800	\$16,100
Final Design/Construction Subtotal	\$19,400	\$4,900	\$24,300
AMENDMENT 2 TOTAL	\$51,822	\$8,871	\$60,693

Amendment 2 increases the fee for the project by a total of \$60,693.00

		Standard Rate	Overtime Rate
Engineer	Supervising Engineer V	245.00	245.00
	Supervising Engineer IV	240.00	240.00
	Supervising Engineer III	220.00	220.00
	Supervising Engineer II	210.00	210.00
	Supervising Engineer I	200.00	200.00
	Senior Engineer II	185.00	185.00
	Senior Engineer I	169.00	169.00
	Design Engineer II	159.00	159.00
	Design Engineer I	147.00	147.00
	Engineer Intern II	128.00	128.00
	Engineer Intern I	112.00	112.00
	Planner	Supervising Senior Planner	202.00
Senior Planner		168.00	168.00
Planner III		136.00	136.00
Planner II		124.00	124.00
Planner I		108.00	108.00
Scientist	Supervising Environmental Scientist	210.00	210.00
	Environmental Scientist III	168.00	168.00
	Environmental Scientist II	128.00	128.00
	Environmental Scientist I	108.00	108.00
	Environmental Technician	95.00	95.00
	Supervising Geologist	227.00	227.00
	Senior Geologist	200.00	200.00
	Geologist III	172.00	172.00
	Geologist II	147.00	147.00
	Geologist I	126.00	126.00
Designer and Technician	Senior Communications Designer	168.00	168.00
	Communications Designer	112.00	112.00
	CAD Designer III	140.00	140.00
	CAD Designer II	129.00	129.00
	CAD Designer I	119.00	178.50
	CAD Tech III	117.00	175.50
	CAD Tech II	100.00	150.00
	CAD Tech I	88.00	132.00
	Senior Engineering Technician	165.00	165.00
	Engineering Technician	112.00	112.00
Resident Project Representative	Senior Resident Project Representative	157.00	157.00
	Resident Project Representative III	149.00	149.00
	Resident Project Representative II	132.00	132.00
	Resident Project Representative I	113.00	169.50
Administrative	Administrative Manager	113.00	113.00
	Administrative Coordinator III	105.00	105.00
	Administrative Coordinator II	99.00	148.50
	Administrative Coordinator I	81.00	121.50
	Project Coordinator III	102.00	102.00
	Project Coordinator II	92.00	138.00
	Project Coordinator I	82.00	123.00
	Technical Intern	77.00	115.50
	Senior Communication Specialist	115.00	115.00
	Graphic Designer	95.00	95.00
	Health & Safety Administrator	126.00	126.00
	Survey	Senior Survey Manager	203.00
Survey Manager		158.00	158.00
Land Surveyor IV		152.00	152.00
Land Surveyor III		142.00	142.00
Land Surveyor II		130.00	130.00
Land Surveyor I		120.00	120.00
Remote Sensing Specialist		125.00	187.50
Survey Technician IV		116.00	116.00
Survey Technician III		103.00	154.50
Survey Technician II		88.00	132.00
Survey Technician I		72.00	108.00

Expert Witness

Recommended rate for expert witness services (depositions and/or time in court) is charged at an hourly rate of 150-200% of the standard billing rate.

EQUIPMENT RATES

<u>Company Vehicle: highway miles - Pickups</u>	\$.773/mile
<u>highway miles – Medium SUV</u>	\$.665/mile
<u>highway miles - Small SUV</u>	\$.566/mile
<u>highway miles - Sedan</u>	\$.624/mile
<u>on-site mileage</u>	\$.624/mile plus \$5.00/hour
<u>Private Vehicle</u>	\$.585/mile
<u>ATV</u>	\$50.00/day
<u>UTV</u>	\$100.00/day
<u>Survey-Grade GNSS (1 Receiver)</u>	\$120.00/day
<u>Survey-Grade GNSS (2 Receivers)</u>	\$30.00/hour, \$240.00/day
<u>Resource-Grade (GIS) GNSS Receivers</u>	\$65.00/day
<u>Hovermap LiDAR Scanner</u>	\$50.00/hour, \$400.00/day
<u>Robotic Total Station</u>	\$30.00/hour, \$240.00/day
<u>Total Station</u>	\$80.00/day
<u>Trimble SX10 Scanning Total Station</u>	\$40.00/hour, \$300.00/day
<u>Trimble SX12 Scanning Total Station</u>	\$40.00/hour, \$300.00/day
<u>FARO Focus 3D Laser Scanner</u>	\$50.00/hour, \$400.00/day
<u>Hydrolite – TM Echosounder Kit</u>	\$100.00/day
<u>Raft-Hydro-Bathy Surveys</u>	\$100.00/day
<u>sUAS Survey Drone</u>	\$400.00/day
<u>Nuclear Density Meter</u>	\$10.00/hour, \$35.00/day
<u>Airflow Balancing Hood</u>	\$75.00/day
<u>Core Drill</u>	\$10.00/hole
<u>Digital Level</u>	\$50.00/day

HYDROLOGICAL EQUIPMENT

<u>Conductivity Meter</u>	\$15.00/day
<u>Disposable Bailers</u>	\$10.00/each
<u>Dissolved Oxygen Meter</u>	\$20.00/day
<u>PH Meter</u>	\$15.00/day
<u>PH/Temp/Conductivity Meter</u>	\$25.00/day
<u>Water Sample Fee</u>	\$10.00/each
<u>In Situ Level Troll 700</u>	\$63.00/day, \$250.00/week
<u>AquaCalc Pro</u>	\$60.00/day, \$120.00/week
<u>Marsh McBirney 2000 Flowmeter</u>	\$60.00/day, \$120.00/week
<u>Global Water FP 111 Flowmeter</u>	\$25.00/day, \$75.00/week
<u>Submersible Pump (Redi Flo 2)</u>	\$155.00/day
<u>Water Level Meter, 300 Ft.</u>	\$25.00/day, \$50.00/week
<u>Water Level Meter, 500 Ft.</u>	\$35.00/day, \$75.00/week
<u>Oil/Water Interface Well Probe</u>	\$40.00/day, \$120.00/week
<u>Hach Flo-Dar (logger & sensor)</u>	\$400.00/week, \$1,000.00/month
<u>Rain Gauge Sensor</u>	\$15.00/week, \$60.00/month

PRINTING EXPENSES

<u>Black & White Copies</u>	\$.10/8.5X11, \$.13/8.5x14, \$.20/11x17
<u>Color Copies</u>	\$.20/8.5X11, \$.20/8.5x14, \$.40/11x17
<u>Binding</u>	\$.25/each
<u>Lamination</u>	\$1.00/each
<u>Oversize Print Black & White</u>	\$5.00/each
<u>Oversize Print Color</u>	\$6.00/each
<u>Print & Basic Mount</u>	\$12.00/each
<u>Print & Machine Mount</u>	\$20.00/each
<u>Print, Machine & Laminate White Board</u>	\$32.00/each

MISCELLANEOUS EXPENSE

<u>Lodging</u>	Current Rates
<u>Meals</u>	\$54.00/day

Materials and other direct costs will be invoiced at current rates plus minimum 10% markup. The following are included as direct costs: approved employee meals, lodging, transportation, premium delivery services (UPS, Federal Express, etc.), testing and survey supplies, premiums for special insurance, performance bonds, and consultants. Cost of professional liability insurance is included in the hourly rates of personnel.

		Standard Rate	Overtime Rate
Engineer	Supervising Engineer V	\$287.00	\$287.00
	Supervising Engineer IV	\$280.00	\$280.00
	Supervising Engineer III	\$257.00	\$257.00
	Supervising Engineer II	\$246.00	\$246.00
	Supervising Engineer I	\$233.00	\$233.00
	Senior Engineer II	\$216.00	\$216.00
	Senior Engineer I	\$197.00	\$197.00
	Design Engineer II	\$186.00	\$186.00
	Design Engineer I	\$172.00	\$172.00
	Engineer Intern II	\$142.00	\$142.00
	Engineer Intern I	\$125.00	\$125.00
	Planner	Supervising Senior Planner	\$225.00
Senior Planner		\$195.00	\$195.00
Planner III		\$151.00	\$151.00
Planner II		\$138.00	\$138.00
Planner I		\$121.00	\$121.00
Scientist	Supervising Environmental Scientist	\$234.00	\$234.00
	Environmental Scientist III	\$186.00	\$186.00
	Environmental Scientist II	\$142.00	\$142.00
	Environmental Scientist I	\$121.00	\$121.00
	Environmental Technician	\$106.00	\$106.00
	Supervising Geologist	\$265.00	\$265.00
	Senior Geologist	\$222.00	\$222.00
	Geologist III	\$202.00	\$202.00
	Geologist II	\$164.00	\$164.00
	Geologist I	\$140.00	\$140.00
Designer and Technician	Senior Communications Designer	\$239.00	\$239.00
	Communications Designer	\$125.00	\$125.00
	CAD Designer III	\$164.00	\$164.00
	CAD Designer II	\$143.00	\$143.00
	CAD Designer I	\$133.00	\$199.50
	CAD Tech III	\$130.00	\$195.00
	CAD Tech II	\$111.00	\$166.50
	CAD Tech I	\$98.00	\$147.00
	Senior Engineering Designer	\$183.00	\$183.00
	Engineering Designer	\$125.00	\$125.00
Resident Project Representative	Senior Resident Project Representative	\$185.00	\$185.00
	Resident Project Representative IV	\$175.00	\$175.00
	Resident Project Representative III	\$166.00	\$166.00
	Resident Project Representative II	\$140.00	\$210.00
	Resident Project Representative I	\$126.00	\$189.00
Administrative	Administrative Manager	\$126.00	\$126.00
	Administrative Coordinator III	\$116.00	\$116.00
	Administrative Coordinator II	\$110.00	\$165.00
	Administrative Coordinator I	\$90.00	\$135.00
	Project Coordinator III	\$113.00	\$113.00
	Project Coordinator II	\$102.00	\$153.00
	Project Coordinator I	\$92.00	\$138.00
	Technical Intern	\$85.00	\$127.50
	Senior Communication Specialist	\$134.00	\$134.00
	Graphic Designer	\$106.00	\$106.00
	Health & Safety Administrator	\$140.00	\$140.00
Survey	Senior Survey Manager	\$226.00	\$226.00
	Survey Manager	\$176.00	\$176.00
	Land Surveyor IV	\$170.00	\$170.00
	Land Surveyor III	\$164.00	\$164.00
	Land Surveyor II	\$148.00	\$148.00
	Land Surveyor I	\$134.00	\$134.00
	Remote Sensing Specialist II	\$149.00	\$149.00
	Remote Sensing Specialist I	\$139.00	\$139.00
	Survey Technician IV	\$129.00	\$129.00
	Survey Technician III	\$114.00	\$171.00
	Survey Technician II	\$98.00	\$147.00
Survey Technician I	\$84.00	\$126.00	
Expert Witness	Recommended rate for expert witness services (depositions and/or time in court) is charged at an hourly rate of 150-200% of the standard billing rate.		

		Standard Rate	Overtime Rate
Engineer	Supervising Engineer V	\$305.00	\$305.00
	Supervising Engineer IV	\$297.00	\$297.00
	Supervising Engineer III	\$267.00	\$267.00
	Supervising Engineer II	\$257.00	\$257.00
	Supervising Engineer I	\$242.00	\$242.00
	Senior Engineer II	\$225.00	\$225.00
	Senior Engineer I	\$203.00	\$203.00
	Design Engineer II	\$194.00	\$194.00
	Design Engineer I	\$174.00	\$174.00
	Engineer Intern II	\$143.00	\$143.00
	Engineer Intern I	\$128.00	\$128.00
Planner	Supervising Senior Planner	\$236.00	\$236.00
	Senior Planner	\$208.00	\$208.00
	Planner III	\$159.00	\$159.00
	Planner II	\$145.00	\$145.00
	Planner I	\$127.00	\$127.00
Scientist	Environmental Scientist III	\$193.00	\$193.00
	Environmental Scientist II	\$146.00	\$146.00
	Environmental Scientist I	\$126.00	\$126.00
	Senior Geologist	\$233.00	\$233.00
	Geologist III	\$208.00	\$208.00
	Geologist II	\$169.00	\$169.00
Designer and Technician	Geologist I	\$144.00	\$144.00
	Senior Communications Designer	\$250.00	\$250.00
	Communications Designer	\$129.00	\$129.00
	CAD Designer III	\$175.00	\$175.00
	CAD Designer II	\$149.00	\$149.00
	CAD Designer I	\$136.00	\$203.00
	CAD Tech III	\$133.00	\$199.00
	CAD Tech II	\$115.00	\$173.00
	CAD Tech I	\$102.00	\$153.00
	Senior Engineering Designer	\$190.00	\$190.00
	Engineering Designer	\$130.00	\$130.00
Resident Project Representative	Senior Resident Project Representative	\$192.00	\$192.00
	Resident Project Representative IV	\$185.00	\$185.00
	Resident Project Representative III	\$173.00	\$173.00
	Resident Project Representative II	\$146.00	\$218.00
	Resident Project Representative I	\$131.00	\$197.00
Administrative	Administrative Manager	\$132.00	\$132.00
	Administrative Coordinator III	\$122.00	\$122.00
	Administrative Coordinator II	\$116.00	\$173.00
	Administrative Coordinator I	\$94.00	\$140.00
	Project Coordinator III	\$118.00	\$118.00
	Project Coordinator II	\$106.00	\$159.00
	Project Coordinator I	\$96.00	\$144.00
	Technical Intern	\$88.00	\$133.00
	Survey	Senior Survey Manager	\$238.00
Survey Manager		\$183.00	\$183.00
Land Surveyor IV		\$177.00	\$177.00
Land Surveyor III		\$171.00	\$171.00
Land Surveyor II		\$151.00	\$151.00
Land Surveyor I		\$121.00	\$121.00
Remote Sensing Specialist II		\$155.00	\$155.00
Remote Sensing Specialist I		\$145.00	\$145.00
Survey Technician IV		\$133.00	\$133.00
Survey Technician III		\$117.00	\$176.00
Survey Technician II	\$103.00	\$154.00	
Survey Technician I	\$87.00	\$131.00	

Expert Witness

Recommended rate for expert witness services (depositions and/or time in court) is charged at an hourly rate of 150-200% of the standard billing rate.

EQUIPMENT RATES

<u>Company Vehicle: highway miles - Pickups</u>	\$1.100/mile
<u>highway miles – Medium SUV</u>	\$.838/mile
<u>highway miles - Small SUV</u>	\$.710/mile
<u>highway miles - Sedan</u>	\$.704/mile
<u>on-site mileage</u>	\$.704/mile plus \$5.00/hour
<u>Private Vehicle</u>	\$.700/mile
<u>ATV</u>	\$50.00/day
<u>UTV</u>	\$100.00/day
<u>Survey-Grade GNSS (1 Receiver)</u>	\$120.00/day
<u>Survey-Grade GNSS (2 Receivers)</u>	\$30.00/hour, \$240.00/day
<u>Resource-Grade (GIS) GNSS Receivers</u>	\$65.00/day
<u>Hovermap LiDAR Scanner</u>	\$50.00/hour, \$400.00/day
<u>Robotic Total Station</u>	\$30.00/hour, \$240.00/day
<u>Total Station</u>	\$80.00/day
<u>Trimble SX10 Scanning Total Station</u>	\$40.00/hour, \$300.00/day
<u>Trimble SX12 Scanning Total Station</u>	\$40.00/hour, \$300.00/day
<u>FARO Focus 3D Laser Scanner</u>	\$50.00/hour, \$400.00/day
<u>Hydrolite – TM Echosounder Kit</u>	\$100.00/day
<u>Raft-Hydro-Bathy Surveys</u>	\$100.00/day
<u>sUAS Survey Drone</u>	\$50.00/hour, \$400.00/day
<u>Nuclear Density Meter</u>	\$15.00/hour, \$50.00/day, \$200.00/week
<u>Airflow Balancing Hood</u>	\$75.00/day
<u>Core Drill</u>	\$10.00/hole
<u>Digital Level</u>	\$50.00/day
<u>Hammer Drill</u>	\$30.00/day

HYDROLOGICAL EQUIPMENT

<u>Conductivity Meter</u>	\$15.00/day
<u>Disposable Bailers</u>	\$10.00/each
<u>Dissolved Oxygen Meter</u>	\$20.00/day
<u>PH Meter</u>	\$15.00/day
<u>PH/Temp/Conductivity Meter</u>	\$25.00/day
<u>Water Sample Fee</u>	\$10.00/each
<u>In Situ Level Troll 700</u>	\$63.00/day, \$250.00/week
<u>AquaCalc Pro</u>	\$60.00/day, \$120.00/week
<u>Marsh McBirney 2000 Flowmeter</u>	\$60.00/day, \$120.00/week
<u>Global Water FP 111 Flowmeter</u>	\$25.00/day, \$75.00/week
<u>Submersible Pump (Redi Flo 2)</u>	\$155.00/day
<u>Water Level Meter, 300 Ft.</u>	\$25.00/day, \$50.00/week
<u>Water Level Meter, 500 Ft.</u>	\$35.00/day, \$75.00/week
<u>Oil/Water Interface Well Probe</u>	\$40.00/day, \$120.00/week
<u>Hach Flo-Dar (logger & sensor)</u>	\$400.00/week, \$1,000.00/month
<u>Rain Gauge Sensor</u>	\$15.00/week, \$60.00/month

PRINTING EXPENSES

<u>Black & White Copies</u>	\$.10/8.5X11, \$.13/8.5x14, \$.20/11x17
<u>Color Copies</u>	\$.20/8.5X11, \$.20/8.5x14, \$.40/11x17
<u>Binding</u>	\$.25/each
<u>Lamination</u>	\$1.00/each
<u>Oversize Print Black & White</u>	\$5.00/each
<u>Oversize Print Color</u>	\$6.00/each
<u>Print & Basic Mount</u>	\$12.00/each
<u>Print & Machine Mount</u>	\$20.00/each
<u>Print, Machine & Laminate White Board</u>	\$32.00/each

MISCELLANEOUS EXPENSE

<u>Lodging</u>	Current Rates
<u>Meals</u>	\$63.00/day

Materials and other direct costs will be invoiced at current rates plus minimum 10% markup. The following are included as direct costs: approved employee meals, lodging, transportation, premium delivery services (UPS, Federal Express, etc.), testing and survey supplies, premiums for special insurance, performance bonds, and consultants. Cost of professional liability insurance is included in the hourly rates of personnel.

3/20/2025

Jeff Hintz, Public Works Director
City of Sidney
115 2nd St SE
Sidney, MT 59270

Re: Anderson Drainage Improvements Phase 2 Proposal

Dear Jeff,

This proposal provides the scope and fee for development of construction drawings for storm drain improvements near the Anderson Subdivision as requested during a phone call on March 3, 2025. Work for this proposal will be completed as part of the Sidney Stormwater On Call Project, Morrison-Maierle Project Number 0717.029.

Project Scope

Morrison-Maierle will develop construction drawings for a new storm drain to convey runoff that is collected on lot 003, Block 5 of the Anderson Subdivision to Anderson Park. The assumed storm drain alignment is shown on Attachment 1. The construction drawings are expected to consist of one cover, one notes/abbreviations/legend sheet, one survey control point plan, one plan and profile sheet, and one grading plan. Construction drawings will be submitted at 75% completion and 100% completion. One round of comments will be accepted from the Owner and discussed during a virtual 75% review meeting.

Morrison-Maierle will design improvements for Anderson Park to increase stormwater storage so neither 5th Street NW nor 22nd Avenue NW overtop for the 1.0% AEP (100-year) event. The proposed storm drain will match the existing storm drain size of 24 inches. We will update the attached Anderson H&H Investigation Memo dated 11/7/24 (Attachment 2) with the proposed Anderson Park improvements, which will serve as the basis of design for the construction drawings.

Morrison-Maierle will utilize topographic survey from the Anderson Subdivision Drainage Improvements project supplemented with publicly available lidar outside of the existing survey for approximate existing grade elevations. The City of Sidney (City) will provide additional survey of existing pipe inverts and structure locations of the storm drain system that will be tied into. The City will also provide information on existing pipe sizes and materials. Existing utility locations shown by the topographic survey should be considered approximate and may not be complete outside of Anderson Park. Morrison-Maierle cannot guarantee plan accuracy for existing infrastructure surveyed by others.

We create solutions that build better communities.

Exclusions

- 1) Additional topographic survey.
- 2) Construction specifications and project manual.
- 3) Opinion of probable cost.
- 4) Bidding services.
- 5) Construction services.
- 6) Construction staking.
- 7) Record drawings.

Schedule

We propose to complete the scope of work within six weeks from receiving survey information of the existing storm drain system.

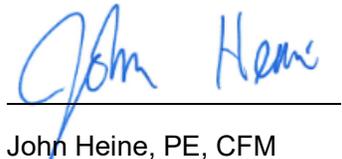
Fee

We propose to perform the scope of work on an hourly rate basis not to exceed the estimate of \$19,900.00.

Please review and let me know if you have any questions.

Sincerely,

MORRISON-MAIERLE



John Heine, PE, CFM

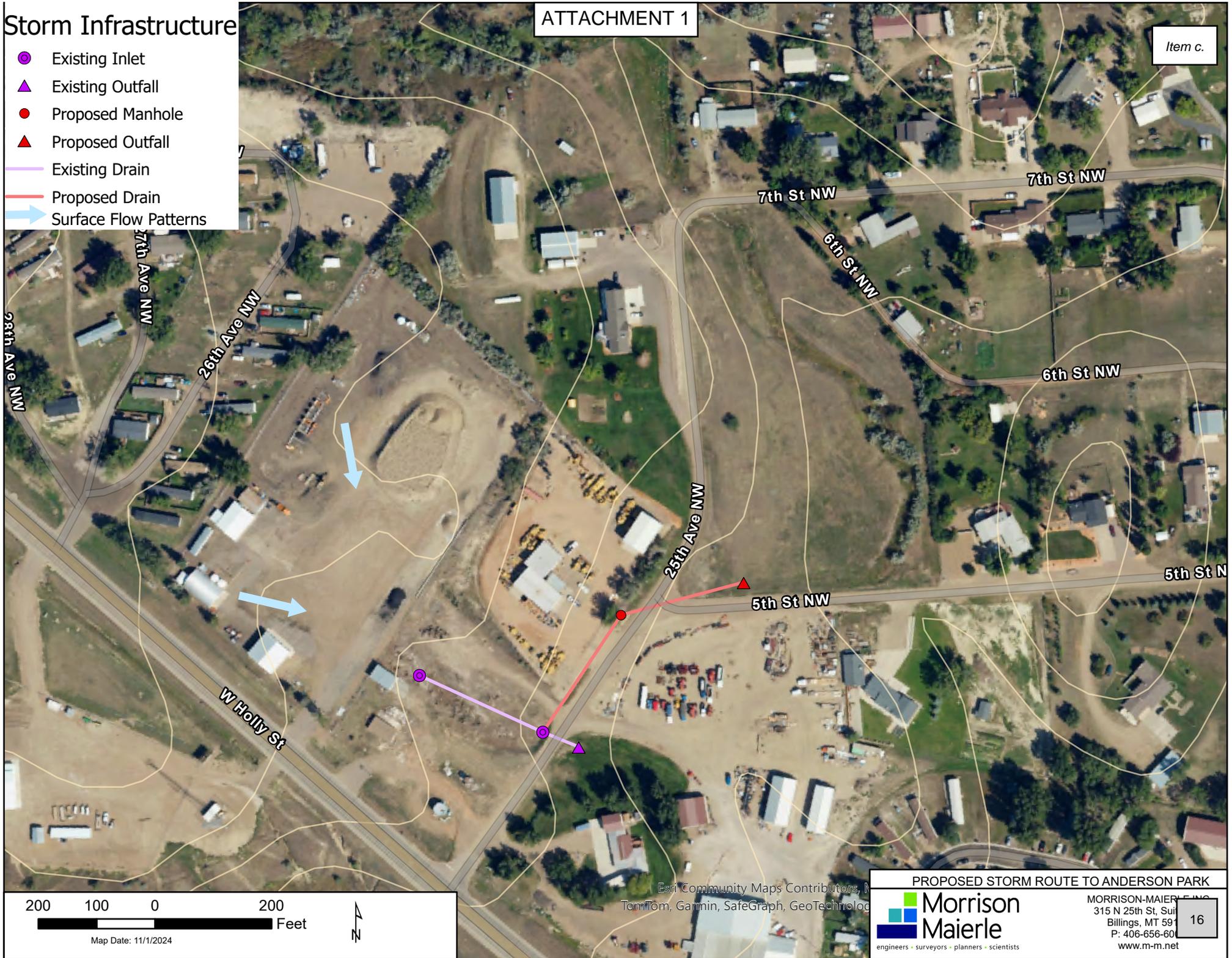
Water Resources Engineer

Storm Infrastructure

ATTACHMENT 1

Item c.

- Existing Inlet
- Existing Outfall
- Proposed Manhole
- Proposed Outfall
- Existing Drain
- Proposed Drain
- Surface Flow Patterns



Esri Community Maps Contributors, N
TomTom, Garmin, SafeGraph, GeoTechnology

PROPOSED STORM ROUTE TO ANDERSON PARK



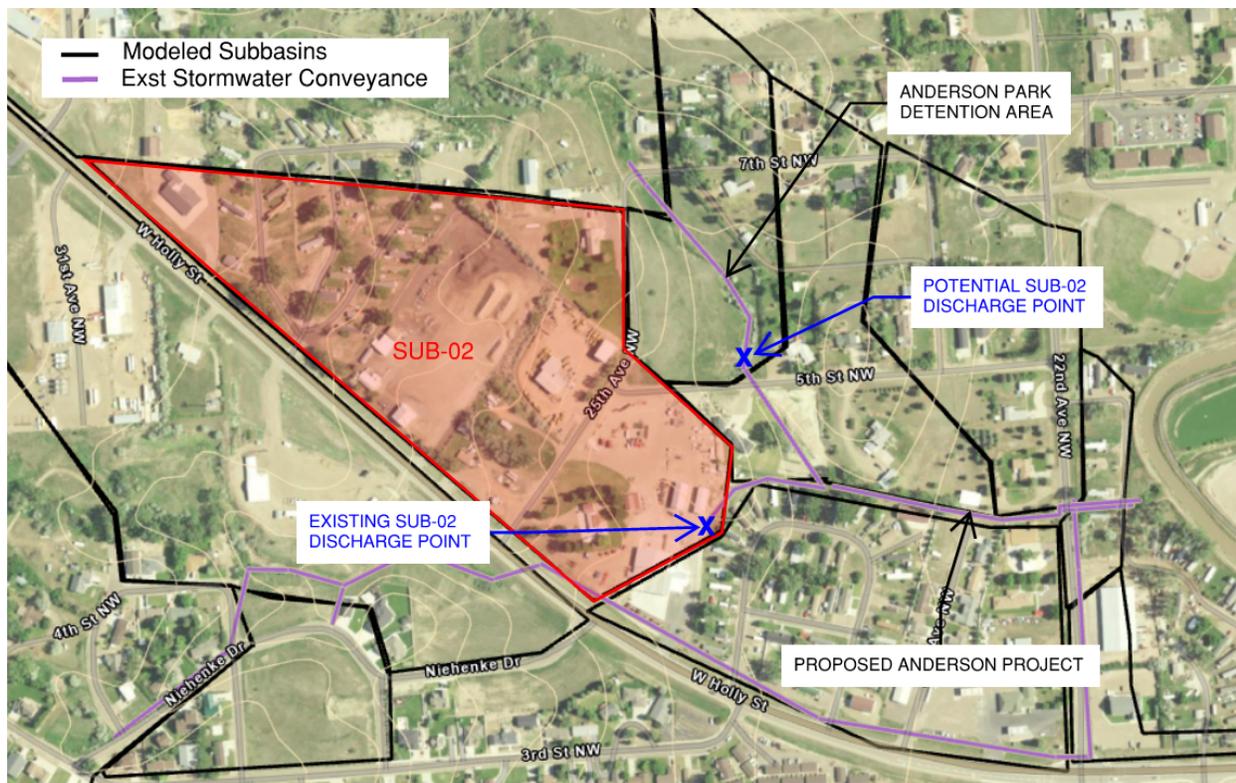
MORRISON-MAIERLE ENGINEERS
315 N 25th St, Suite 100
Billings, MT 59101
P: 406-656-6000
www.m-m.net

TO: Jeff Hintz, City of Sidney Public Works
FROM: John Heine, PE
 Carly Kittleson, PE
DATE: 11/7/2024
JOB NO.: 0717.029.05
RE: Anderson H&H Investigation: Basin Rerouting & 5th Ave Crest Elevation
CC:

Urgent For Review Please Comment Please Reply For Your Use

This hydraulics investigation analyzes the impacts of rerouting runoff from Subbasin-02, from discharging to the open channel upstream of the Anderson Stormwater Improvements Project, to the Anderson Park Detention Area. Subbasin-02 is about 30 acres and contains several industrial properties east and west of 25th Ave NW. The Montana Dept of Transportation property is approximately 6 acres.

Figure 1: Anderson Vicinity



Anderson H&H Investigation: Basin Rerouting & 5th Ave Crest Elevation

Hydraulic analysis of rerouting Sub-02 discharge to the Anderson Park detention area results in the following:

Anderson Park Detention Area: Peak flows increase for all storm events. The detention area will overtop 5th Street NW near the 50-year event for the proposed condition of sub-basin 2 rerouted to the area. Overtopping will occur sooner than for existing conditions, which is estimated to occur between the 50- and 100-year event.

Newly Constructed Anderson Storm Pipe: Peak flows decrease to the Proposed Anderson Stormwater Improvements Project for all storm events except the 100-year. The new pipe will overtop between the 50- and 100-year events for both existing and proposed conditions.

22nd Avenue NW: Overtopping of 22nd Ave NW is estimated only for the proposed scenario near the 100-year event.

Table 1: Hydraulic Model Results Summary

Anderson Subbasin H&H Investigation							
Recurrence Interval	Park Inflow (cfs)	Park Pipe Outflow (cfs)	5th Street NW Overtopping (cfs)	Peak Flow to Anderson Open Channel (cfs)	Transition Inlet Inflow (cfs)	Transition Inlet Overtopping (cfs)	22nd Ave NW Overtopping
10-Year Existing	26	7	-	17	17	-	No
10-Year Proposed	32	7	-	7	7	-	No
25-Year Existing	48	8	-	29	29	-	No
25-Year Proposed	59	8	-	8	8	-	No
50-Year Existing	68	8	-	38	38	-	No
50-Year Proposed	84	8	11	19	19	-	No
100-Year Existing	139	8	74	97	45	53	No
100-Year Proposed	188	8	117	128	46	83	Yes

Rerouting runoff from Subbasin 02 to the Anderson Park Detention Area results in decreased peak flows through the new Anderson storm pipe and outfall for events up to and including the 50-year. During events greater than 50-year, significant overtopping at 5th Street Northwest and Anderson Park, will occur, resulting in greater peak flows at this large event.

Anderson H&H Investigation: Basin Rerouting & 5th Ave Crest Elevation

Increasing Roadway Elevation at 5th Avenue

The current roadway elevation of 5th Avenue is 1989.5 ft, which overtops at a 50-year event with the additional flow from Sub-02. If the City chooses to raise 5th Avenue to prevent overtopping during large events, the road elevation must be raised a total of 3.8 feet. This adjusts the elevation to 1993.3, and includes 1 foot of freeboard for the 100-year event. This analysis includes runoff from sub-basin 02 directed to Anderson Park.

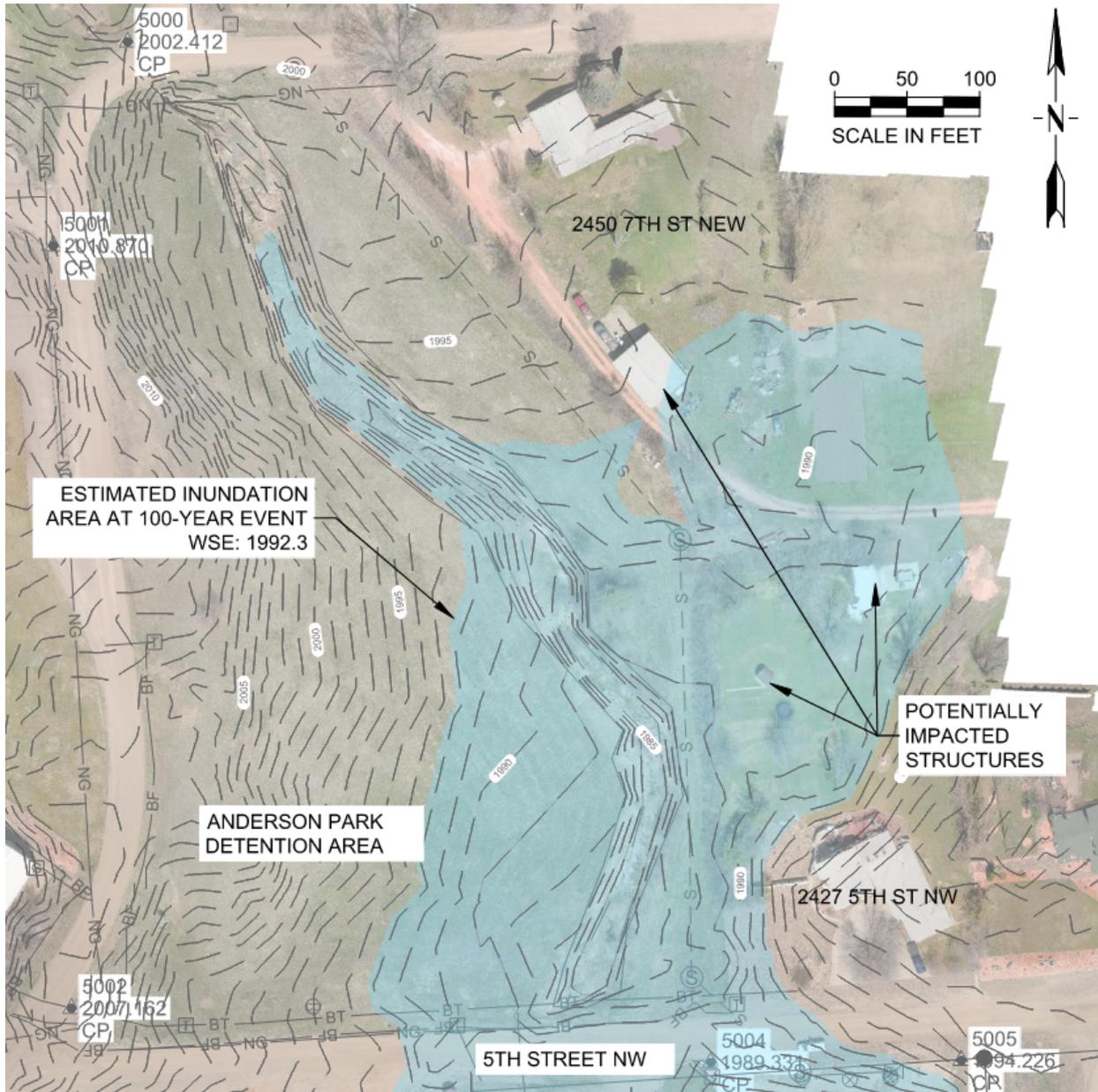


Figure 2: 100-YEAR INUNDATION LIMITS

Anderson H&H Investigation: Basin Rerouting & 5th Ave Crest Elevation
 Prior to increasing the road crest elevation, potential impacts to adjacent properties should be further investigated. It appears that three outbuildings shown in Figure 2 may be impacted by the increased headwater at 5th Street NW.

Hydraulic Summary:

With 5th Avenue raised to prevent overtopping through the 100-year event, the hydraulic analysis results in the following:

Anderson Park Detention Area: Receives runoff from Sub-basin 02. Maximum water surface during 100-year event is 1992.3. No overtopping up to the 100-year event.

Newly Constructed Anderson Storm Pipe: No overtopping at the new transition structure up to the 100-year event.

22nd Avenue NW: Both the existing culvert and new pipe under 22nd Ave NW are surcharged, but no overtopping is anticipated. No structure impacts are estimated based on modeled ponding elevation and lowest adjacent structure elevation, as noted in the table below.

100-YEAR EVENT – HYDRAULIC RESULTS SUMMARY							
5 th St NW Elevation (ft)	Park Outflow (cfs)	5th St NW Overtopping (cfs)	Peak Flow to Anderson Open Channel (cfs)	Transition Inlet Overtopping (cfs)	22nd Ave NW Overtopping	Ponding WSE at 22 nd Ave NW (ft)	*Structure Impacts near 22 nd Ave*
1989.5	8	117	128	83	Yes	1964.5	Yes
1993.3	9	N/A	18	N/A	No	1963.4	No

*Lowest adjacent structure elevation is 1964 ft.