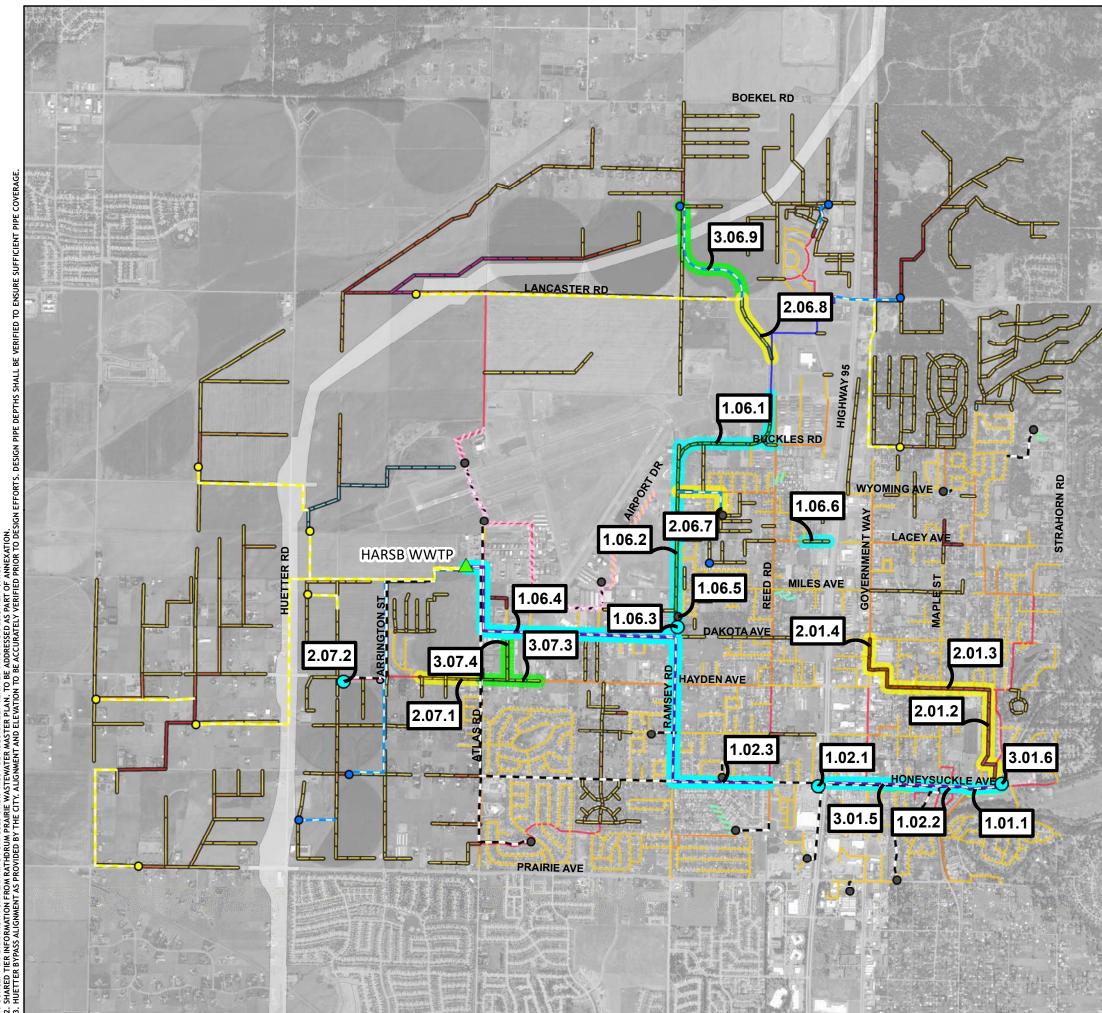
# **APPENDIX F** CIP Packets



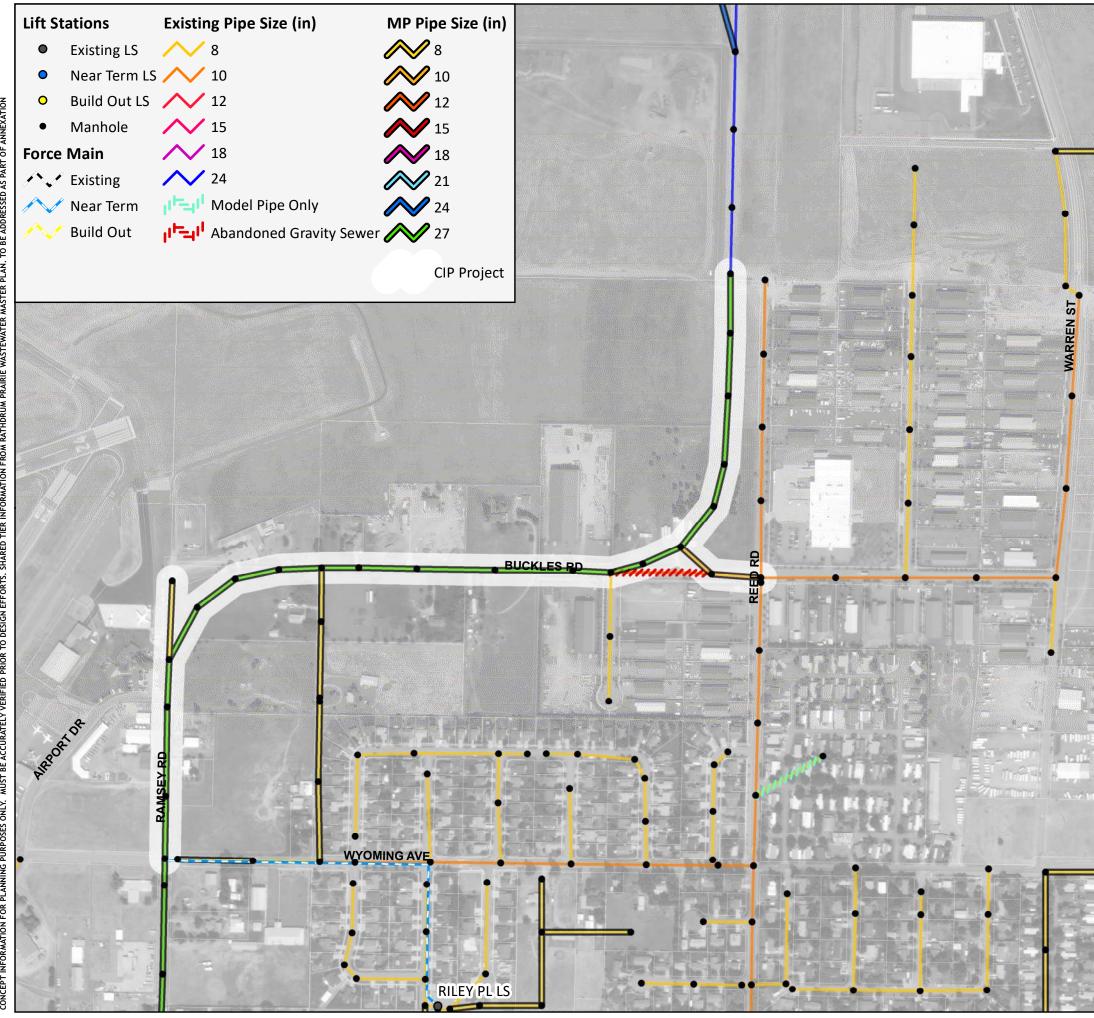
PRIOR TO I ADDRESSE



# **City of Hayden** 2020 Collection System Master Plan Update

# Figure F1 **CIP Summary Map**

MP Pipe Size (in) HARSB WWTP Future Huetter Bypass A 27 10 Lift Stations 12 Existing LS 15 Near Term LS 0 18 Build Out LS 0 21  $\bigcirc$ CIP LS 24 Force Main **/** 27 Existing **CIP Projects** V Near Term Build Out 0 - 5 Years 15-inch PIP 6 - 10 Years PIP Replacement Existing Pipe Size (in) 10 + Years 8 // 10 12 15 // 18 **∕∕** 24 Airport Infrastructure Model Pipes Only 2,500 5,000 (JUB) w PRINT DATE: 2/3/2021 J·U·B ENGINEERS, INC.





# **Figure F2** CIP 1.06.1 Ramsey Road Phase I

### **CORE ISSUE:**

The Reed Road gravity sewer line is nearing capacity. Serving further North requires the development of the H-6 Sewer Basin.

### **RECOMMENDED SOLUTION:**

A 27-inch trunk would be installed in the future Ramsey Road Alignment from Wyoming Avenue connecting to the existing 24-inch Hayden Urban Renewal Agency (HURA) gravity sewer. Special design slope considerations are recommended to minimze downstream depth. Easement procurements may be required. The gravity sewer in Buckles road shall be installed and capped to route future flow into the Ramsey Road line and out of the H-2 Basin after the H-6 Lift Station is completed. This project is assumed to be constructed immediately in advance of the transportation project in Ramsey Road. Surface repair costs within the transportation project boundary have been removed.

### **OPINION OF PROBABLE COST:**

> 354 LF of 8-inch Gravity Sewer> 408 LF of 10-inch Gravity Sewer> 4,692 LF of 27-inch Gravity Trunk

## \$1,702,000

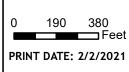
(2020 Dollars)

**PROJECT PRIORITY:** 

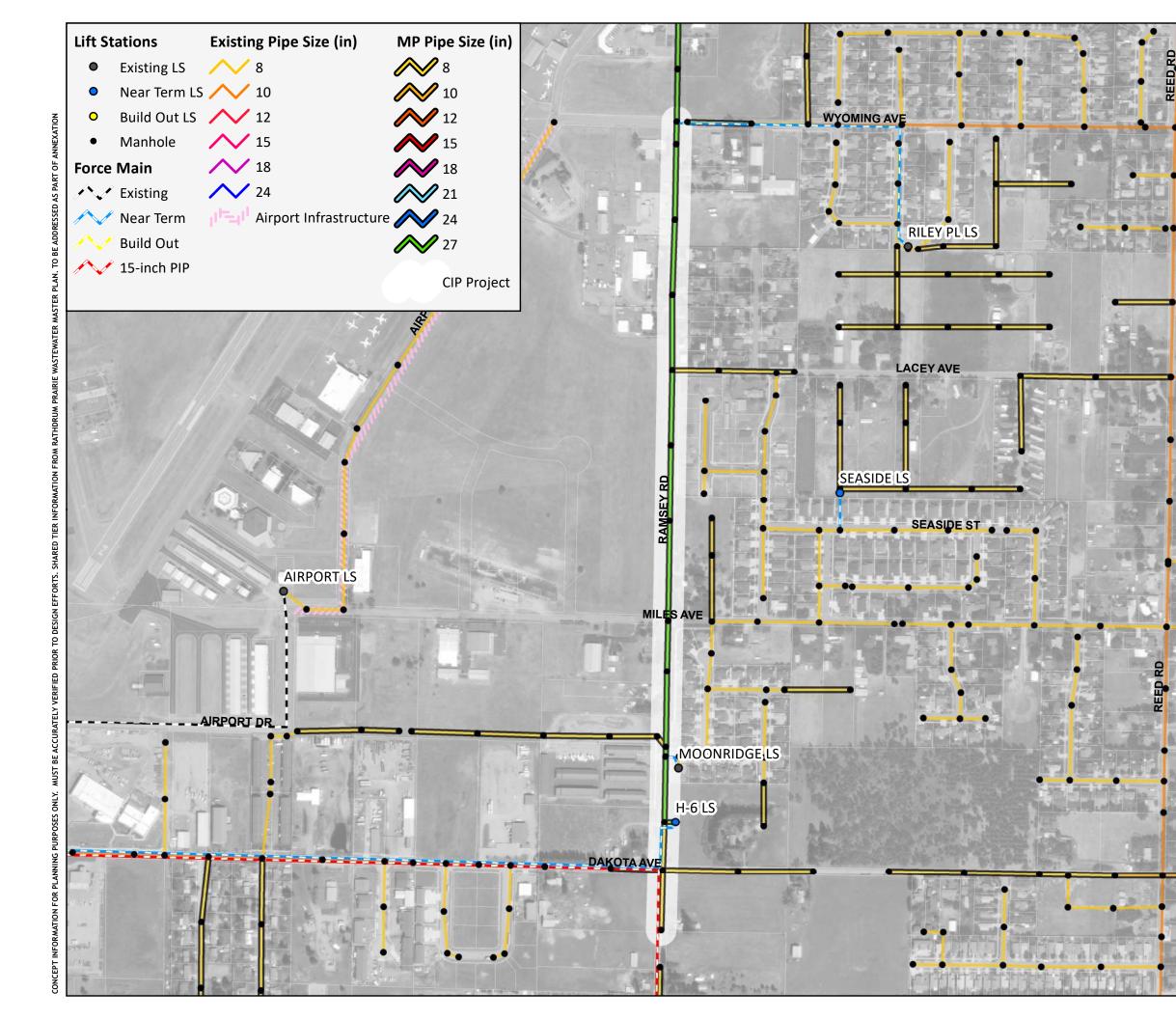
0 - 5 Years



HIGHWAY 95









# **Figure F3** CIP 1.06.2 Ramsey Road Phase II

### CORE ISSUE:

The Reed Road gravity sewer line is nearing capacity. Serving further North requires the development of the H-6 Sewer Basin.

### **RECOMMENDED SOLUTION:**

A 27-inch trunk would be installed in Ramsey Road from Wyoming Avenue, connecting to the 27-inch trunk installed as Ramsey Road Phase I, to the future H-6 Lift Station. 8-inch gravity sewer would be installed South of the H-6 Lift Station to Dakota Avenue. Easement procurements may be required. Surface repair is assumed to return the disturbed road to the original condition.

### **OPINION OF PROBABLE COST:**

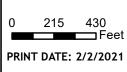
> 574 LF of 8-inch Gravity Sewer> 3,720 LF of 27-inch Gravity Trunk

\$1,574,000

(2020 Dollars)

### **PROJECT PRIORITY:**











# Figure F4 CIP 1.06.3 H-6 Lift Station

### **CORE ISSUE:**

The Reed Road gravity sewer line is nearing capacity. Serving further North requires the development of the H-6 Sewer Basin.

### **RECOMMENDED SOLUTION:**

The H-6 Lift Station will serve approximately 2,800 acres within the future H-6 Sewer Basin and convey flow to the HARSB WWTP. The lift station has been sized to provide capacity for the build out system flows. It is recommended for the lift station to be designed to allow for phasing as development occurs. Easement and property procurement will be required. Lift station location as shown on the map is approximate and should be addressed as a part of design.

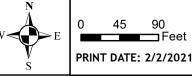
### **OPINION OF PROBABLE COST:**

- > Wet Pit
- > Valve Vault
- > Overflow Basin
- > Control Building
- > Site Piping
- > Equipment
- > Land Purchase

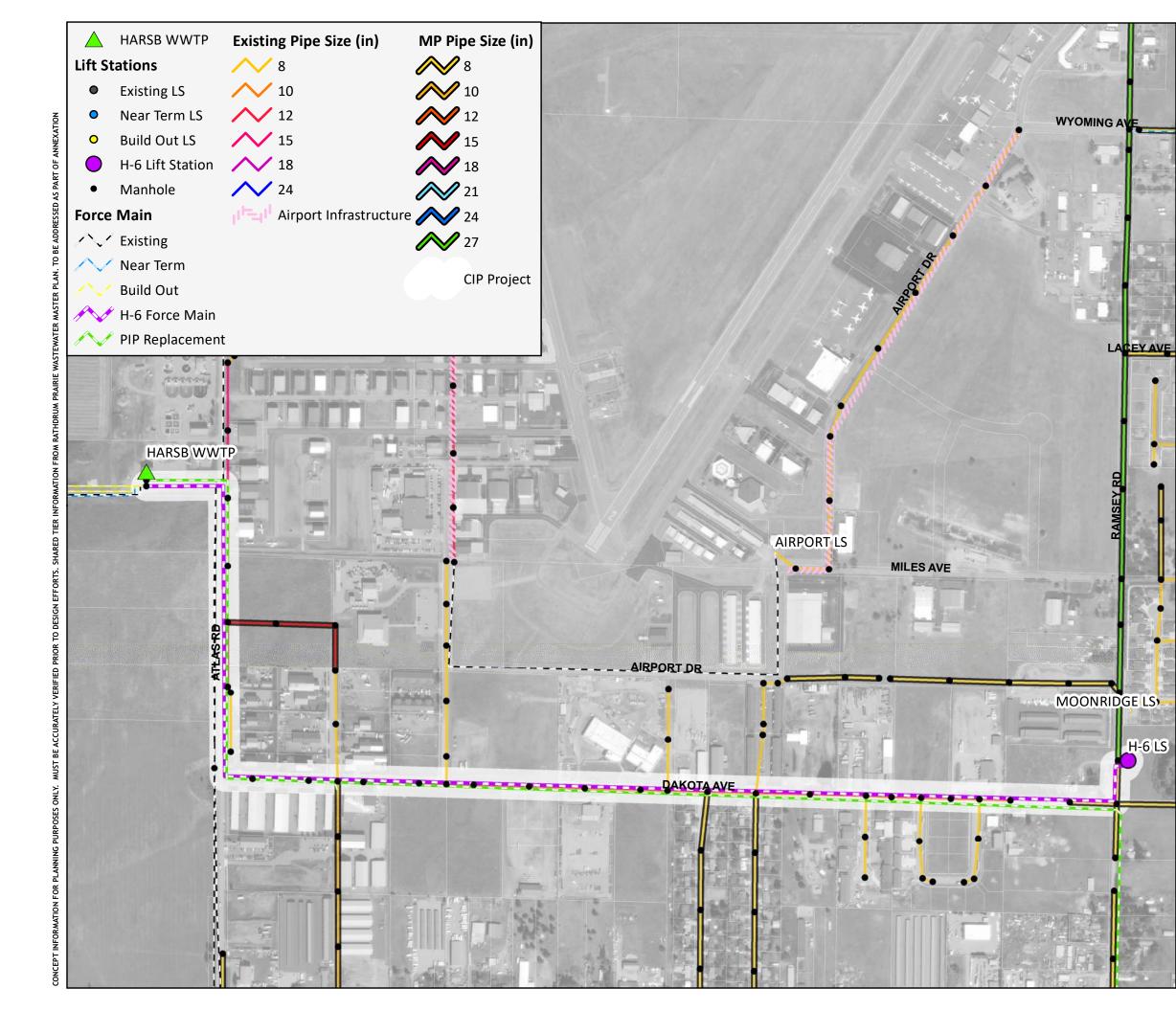
## \$2,419,000

**PROJECT PRIORITY:** 

(2020 Dollars)









# Figure F5 CIP 1.06.4 H-6 Force Main

## **CORE ISSUE:**

The Reed Road gravity sewer line is nearing capacity. Serving further North requires the development of the H-6 Sewer Basin.

### **RECOMMENDED SOLUTION:**

The H-6 Force Main system will run approximately 7,706 feet and convey flow to the HARSB WWTP. The force mains have been sized to provide capacity for the build out system flows and allow for lift station phasing. It is recommended to use parallel force mains with the equivalent area of an 18-inch diameter. This results in the use of parallel 10-inch and 16-inch force mains. The portion of the 15-inch Pressure Irrigation Pipe (PIP) located within the project boundary is to be upsized to an 18-inch pressure pipe as a part of this project in coordination with HARSB. Easement procurement may be required. Force main location within the roadway as shown on the map is approximate and should be addressed as a part of design.

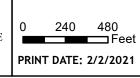
## **OPINION OF PROBABLE COST:**

> 7,706 LF of 10-inch Pressure Pipe to H-6 LS> 7,706 LF of 16-inch Pressure Pipe to H-6 LS> 7,494 LF of 18-inch Pressure Pipe to replace PIP

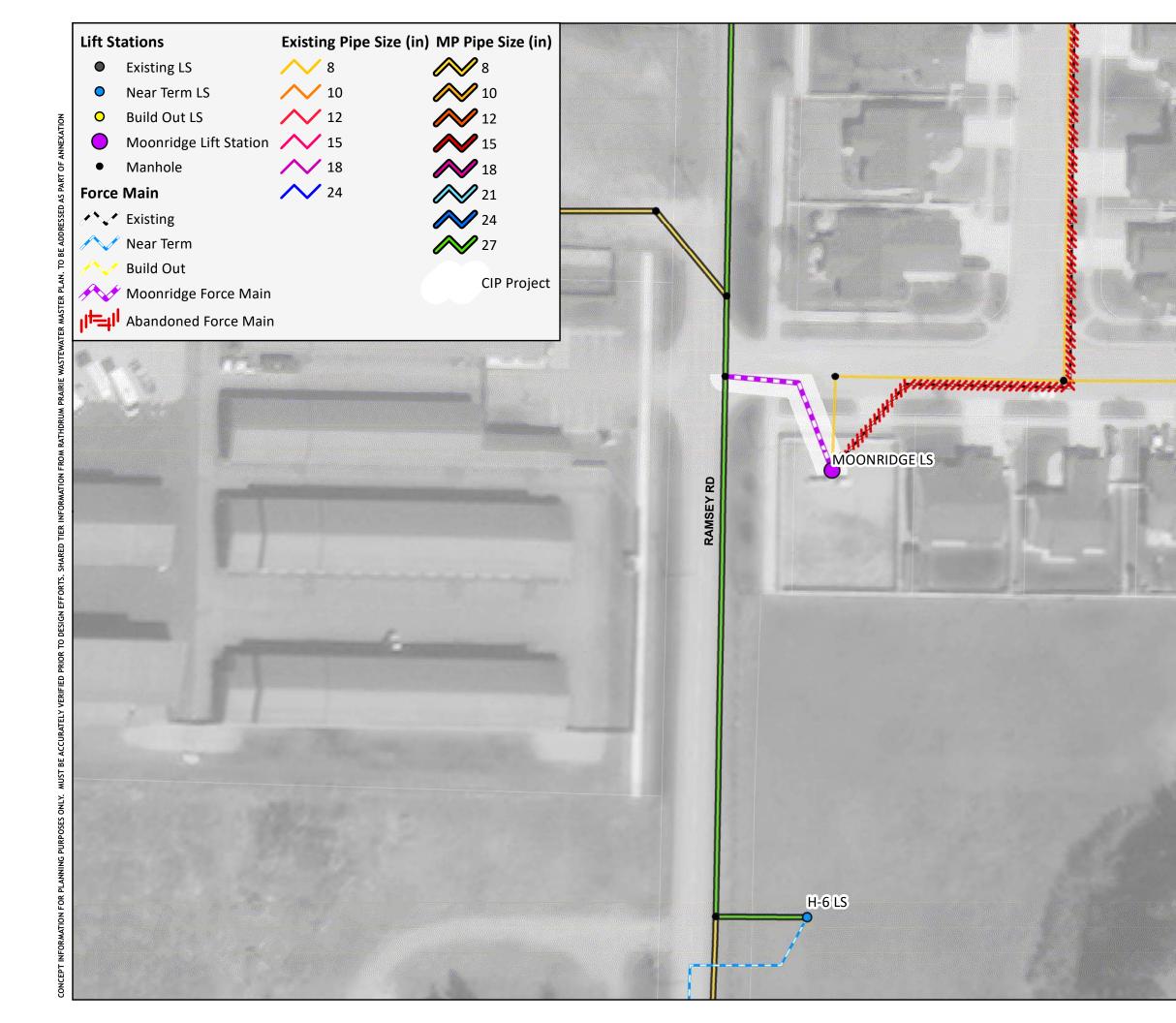
## \$5,491,000

(2020 Dollars)

**PROJECT PRIORITY:** 









# **Figure F6** CIP 1.06.5 Moonridge Force Main

### **CORE ISSUE:**

The Reed Road gravity sewer line is nearing capacity. Serving further North requires the development of the H-6 Sewer Basin.

### **RECOMMENDED SOLUTION:**

In an effort to relieve the Reed Road Line of future capacity issues, the Moonridge Force Main discharge should be re-routed into the future 24-inch gravity trunk line in Ramsey Road and flow to the future H-6 Lift Station. This allows for the abandonment of the existing force main that flows into the H-2 Basin. Easement procurement may be required. Force main location within the roadway as shown on the map is approximate and should be addressed as a part of design.

### **OPINION OF PROBABLE COST:**

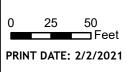
> 108 LF of 4-inch Pressure Pipe

\$19,000

(2020 Dollars)

### **PROJECT PRIORITY:**











# Figure F7 CIP 1.06.6 Lacey Avenue Gravity

### **CORE ISSUE:**

There is opportunity for infill growth within the H-2 Basin.

### **RECOMMENDED SOLUTION:**

The gravity sewer in Lacey Avenue should be extended from Krest Court to Highway 95. An 8-inch gravity sewer pipe should be installed in Lacey Avenue. Easement procurements may be required.

### **OPINION OF PROBABLE COST:**

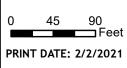
> 660 LF of 8-inch Gravity Sewer

\$130,000

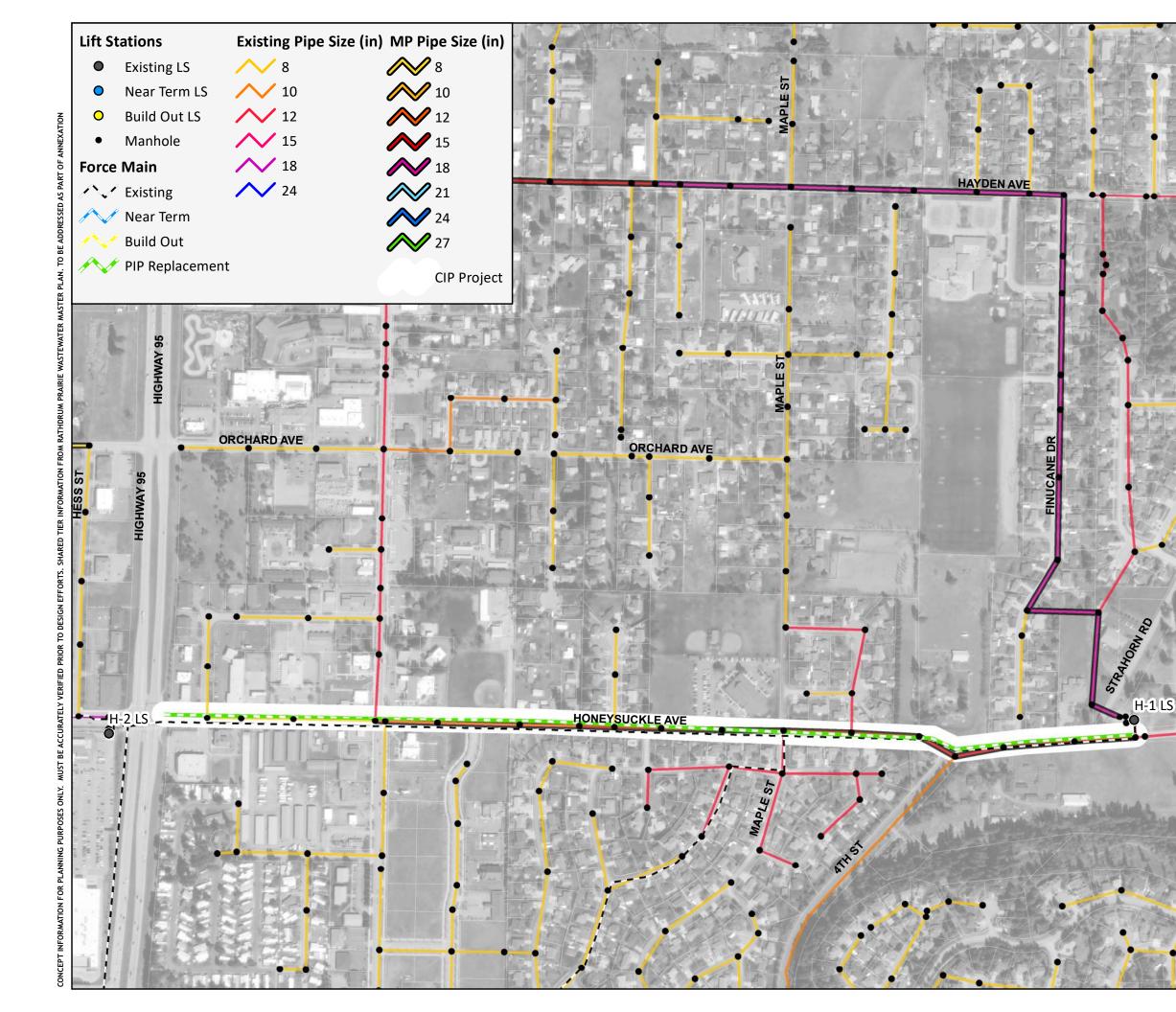
(2020 Dollars)

### **PROJECT PRIORITY:**











# **Figure F8** CIP 1.02.2 Honeysuckle Force Main Replacement Phase I

## **CORE ISSUE:**

The HARSB Pressure Irrigation Pipe (PIP) force main extends from the H-1Lift Station on Honeysuckle Avenue, Ramsey Road, Dakota Avenue, and Atlas Road and discharges to the HARSB WWTP. Portions of the PIP forcemain have already been replaced as part of previous projects.

### **RECOMMENDED SOLUTION:**

The portion of the 15-inch PIP from the H-1 Lift Station to Highway 95 is to be upsized to an 18-inch pressure pipe in coordination with HARSB. The upsized pressure pipe will connect to the existing 18-inch forcemain that was a previous PIP replacement project. Easement procurement may be required. Force main location within the roadway as shown on the map is approximate and should be addressed as a part of design.

### **OPINION OF PROBABLE COST:**

> 4,730 LF of 18-inch Pressure Pipe

\$1,800,000

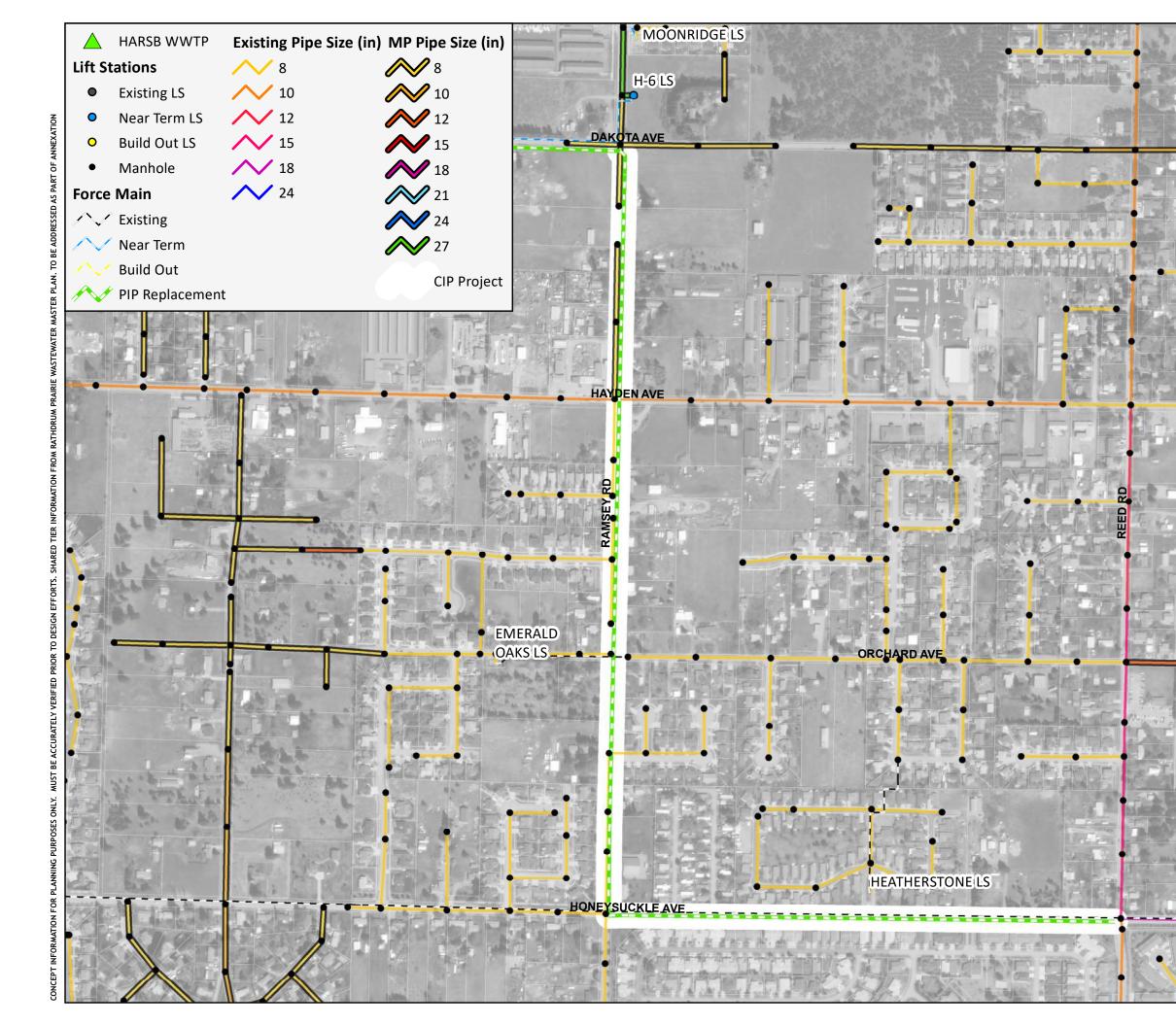
(2020 Dollars)

### **PROJECT PRIORITY:**











# **Figure F9** CIP 1.02.3 Honeysuckle Force Main Replacement Phase II

## CORE ISSUE:

The HARSB Pressure Irrigation Pipe (PIP) force main extends from the H-1 Lift Station on Honeysuckle Avenue, Ramsey Road, Dakota Avenue, and Atlas Road and discharges to the HARSB WWTP. Portions of the PIP forcemain have already been replaced as part of previous projects.

## **RECOMMENDED SOLUTION:**

The portion of the 15-inch PIP from Reed Road to Dakota Avenue is to be upsized to an 18-inch pressure pipe in coordination with HARSB. The upsized pressure pipe will connect to the existing 18-inch forcemain at Reed Road that was a previous PIP replacement project and connect to the portion that is to be replaced in coordination with the H-6 Force Main CIP Project. Easement procurement may be required. Force main location within the roadway as shown on the map is approximate and should be addressed as a part of design.

## **OPINION OF PROBABLE COST:**

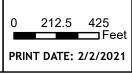
> 6,547 LF of 18-inch Pressure Pipe

## \$2,490,000

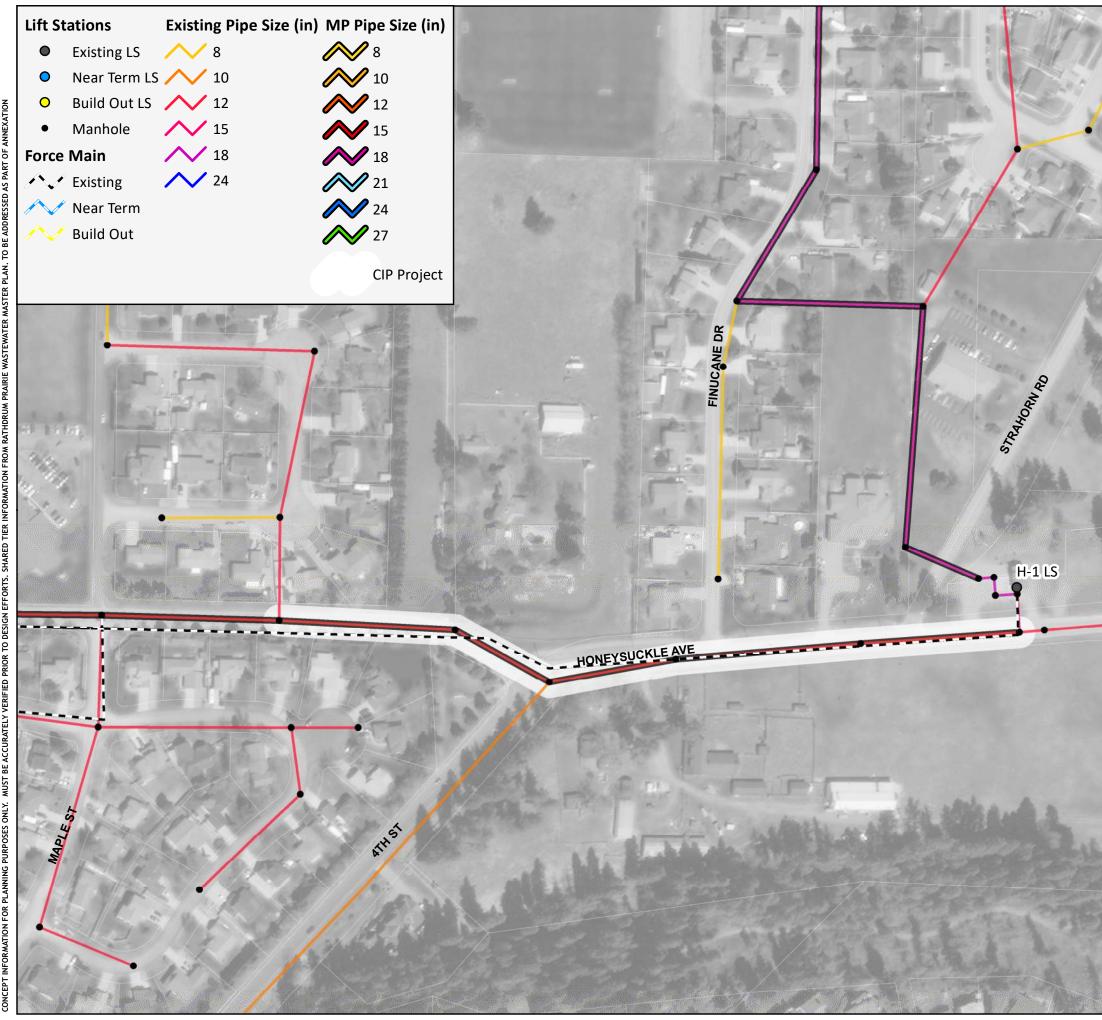
(2020 Dollars)

**PROJECT PRIORITY:** 











# Figure F10 CIP 1.01.1 Honeysuckle Avenue **Upsize Phase I**

## **CORE ISSUE:**

The Honeysuckle Avenue gravity sewer line is nearing capacity. Projected future growth requires upsizing the gravity sewer to accomodate increased flows conveyed to the H-1 Lift Station.

### **RECOMMENDED SOLUTION:**

The gravity sewer in Honeysuckle Avenue from Maple Street to the inlet of the H-1 Lift Station should be upsized to 15-inch pipe. Easement procurements may be required. This project is assumed to be constructed in coordination with the transportation project at the intersection of Honeysuckle Avenue and 4th Street. Surface repair costs within the transportation project boundary have been removed.

## **OPINION OF PROBABLE COST:**

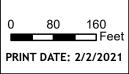
> 1,420 LF of 15-inch Gravity Sewer

\$194,000

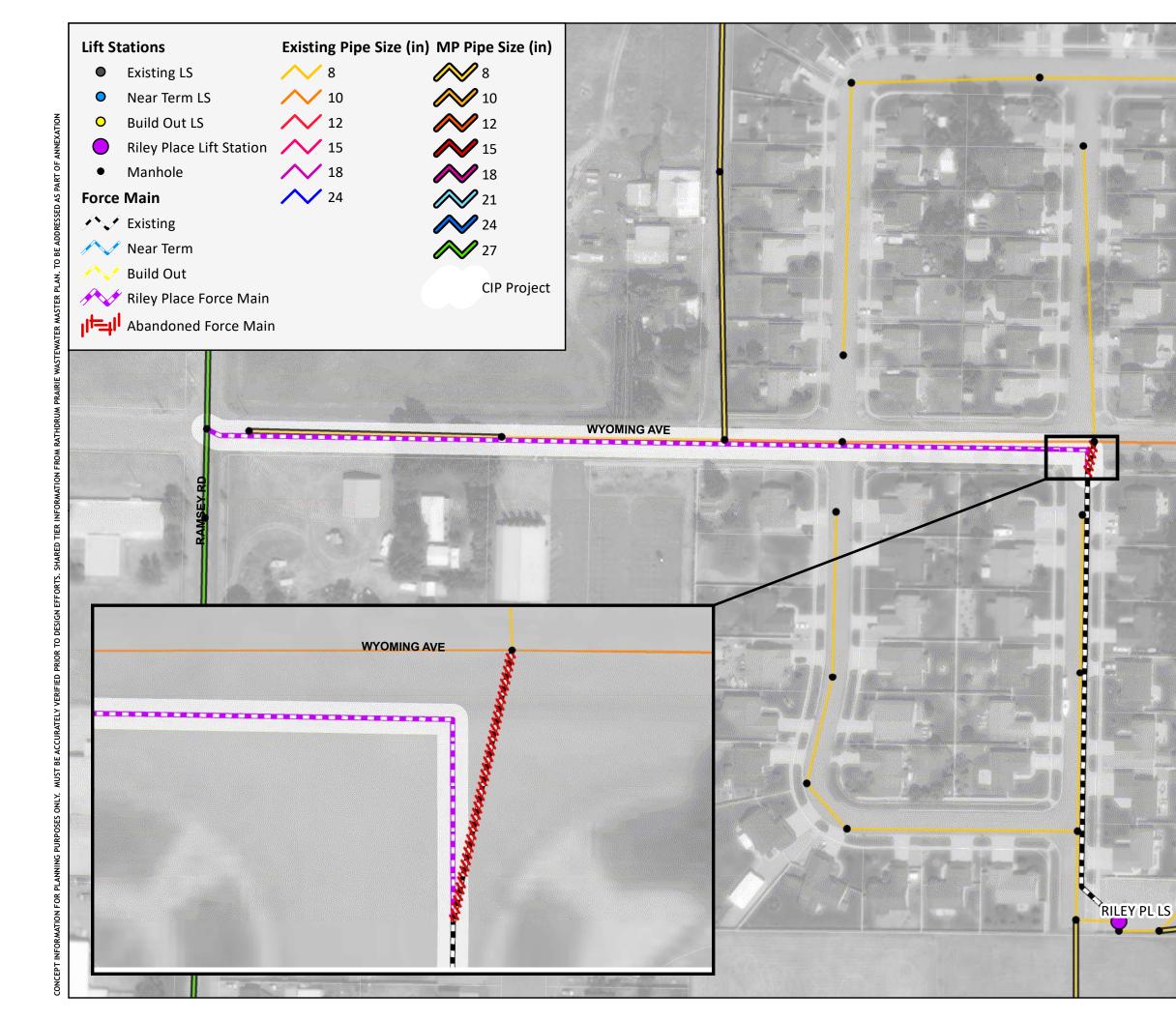
(2020 Dollars)

**PROJECT PRIORITY:** 











# **Figure F11** CIP 2.06.7 Riley Place Force Main

### **CORE ISSUE:**

The Reed Road gravity sewer line is nearing capacity. Serving further North requires the development of the H-6 Sewer Basin.

### **RECOMMENDED SOLUTION:**

In an effort to relieve the Reed Road Line of future capacity issues, the Riley Place Force Main discharge should be re-routed into the future 24-inch gravity trunk line in Ramsey Road and flow to the future H-6 Lift Station. This allows for the abandonment of a portion of existing force main that flows into the H-2 Basin. Easement procurement may be required. Force main location within the roadway as shown on the map is approximate and should be addressed as a part of design.

### **OPINION OF PROBABLE COST:**

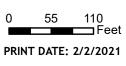
> 1,176 LF of 4-inch Pressure Pipe

\$136,000

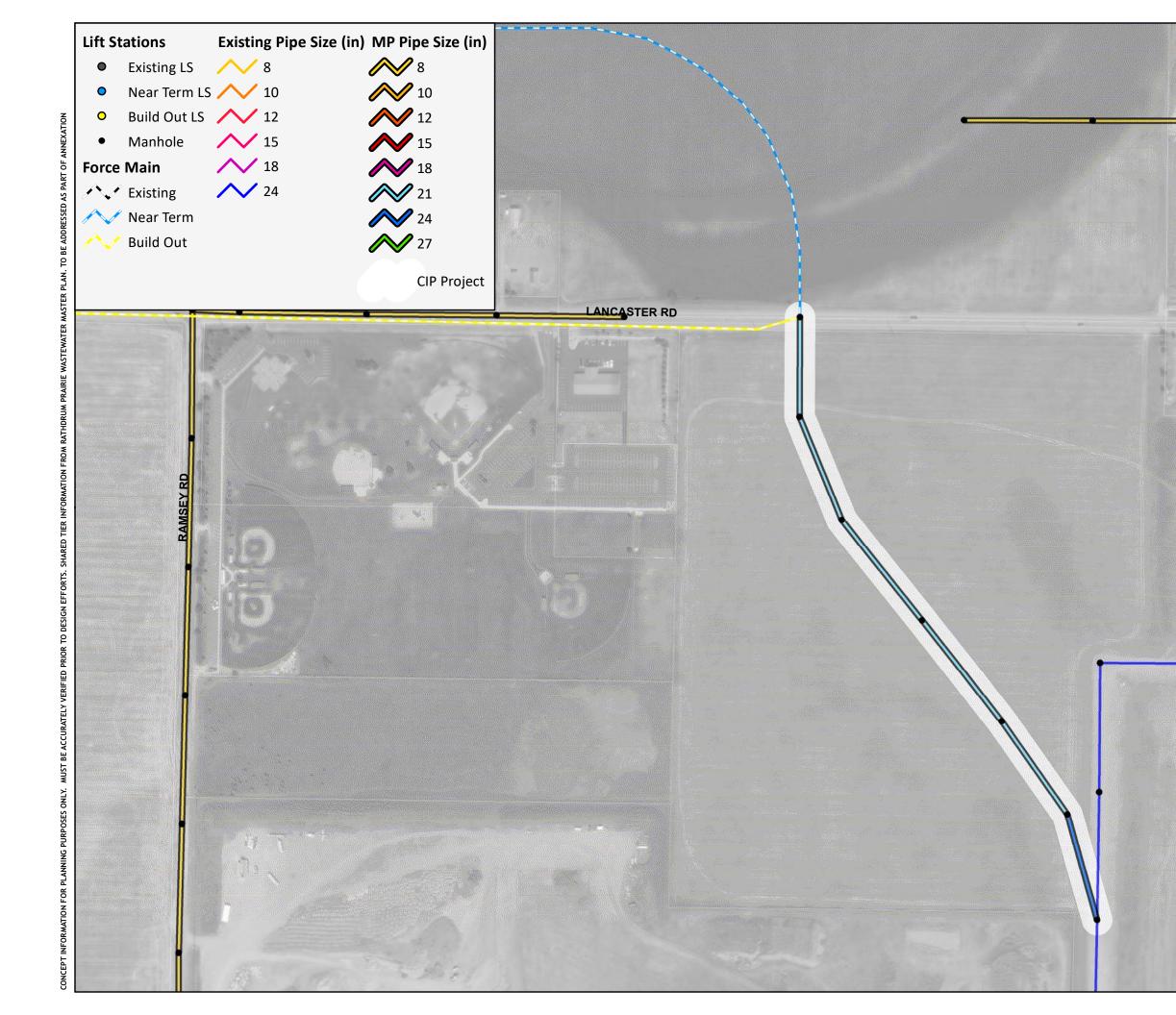
(2020 Dollars)

### **PROJECT PRIORITY:**











# **Figure F12** CIP 2.06.8 Ramsey Road Phase III

### **CORE ISSUE:**

The Reed Road gravity sewer line is nearing capacity. Serving further North requires the development of the H-6 Sewer Basin.

### **RECOMMENDED SOLUTION:**

21-inch and 24-inch gravity sewer pipe should be installed within the future Ramsey Road alignment from Lancaster Avenue and connect to the existing HURA 24-inch gravity trunk. Easement procurements may be required.

### **OPINION OF PROBABLE COST:**

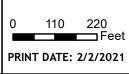
> 1,587 LF of 21-inch Gravity Sewer> 299 LF of 24-inch Gravity Sewer

\$502,000

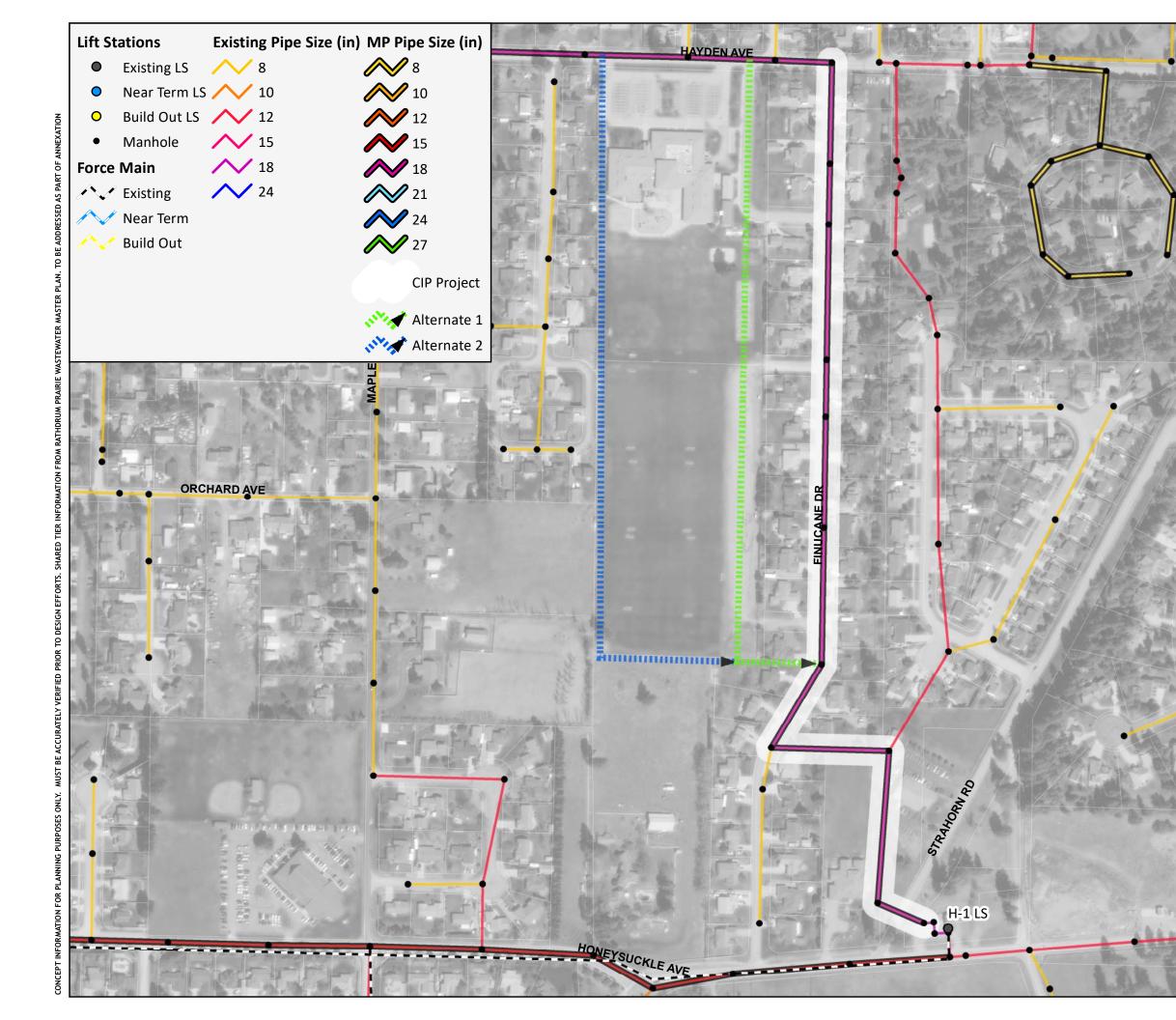
(2020 Dollars)

### **PROJECT PRIORITY:**











# **Figure F13** CIP 2.01.2 Finucane Drive Upsize

## CORE ISSUE:

The H-1 gravity sewer trunk line is nearing capacity. Projected future growth requires upsizing the gravity sewer to accomate increased flows conveyed to the H-1 Lift Station.

### **RECOMMENDED SOLUTION:**

The gravity sewer in Finucane Drive from Hayden Avenue to the 18-inch inlet pipe to the H-1 Lift Station should be upsized to 18-inch pipe. Easement procurements may be required. Alternate alignments to be considered during design. No cost opinion provided for alternate alignments.

### **OPINION OF PROBABLE COST:**

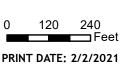
> 3,027 LF of 18-inch Gravity Sewer

\$769,000

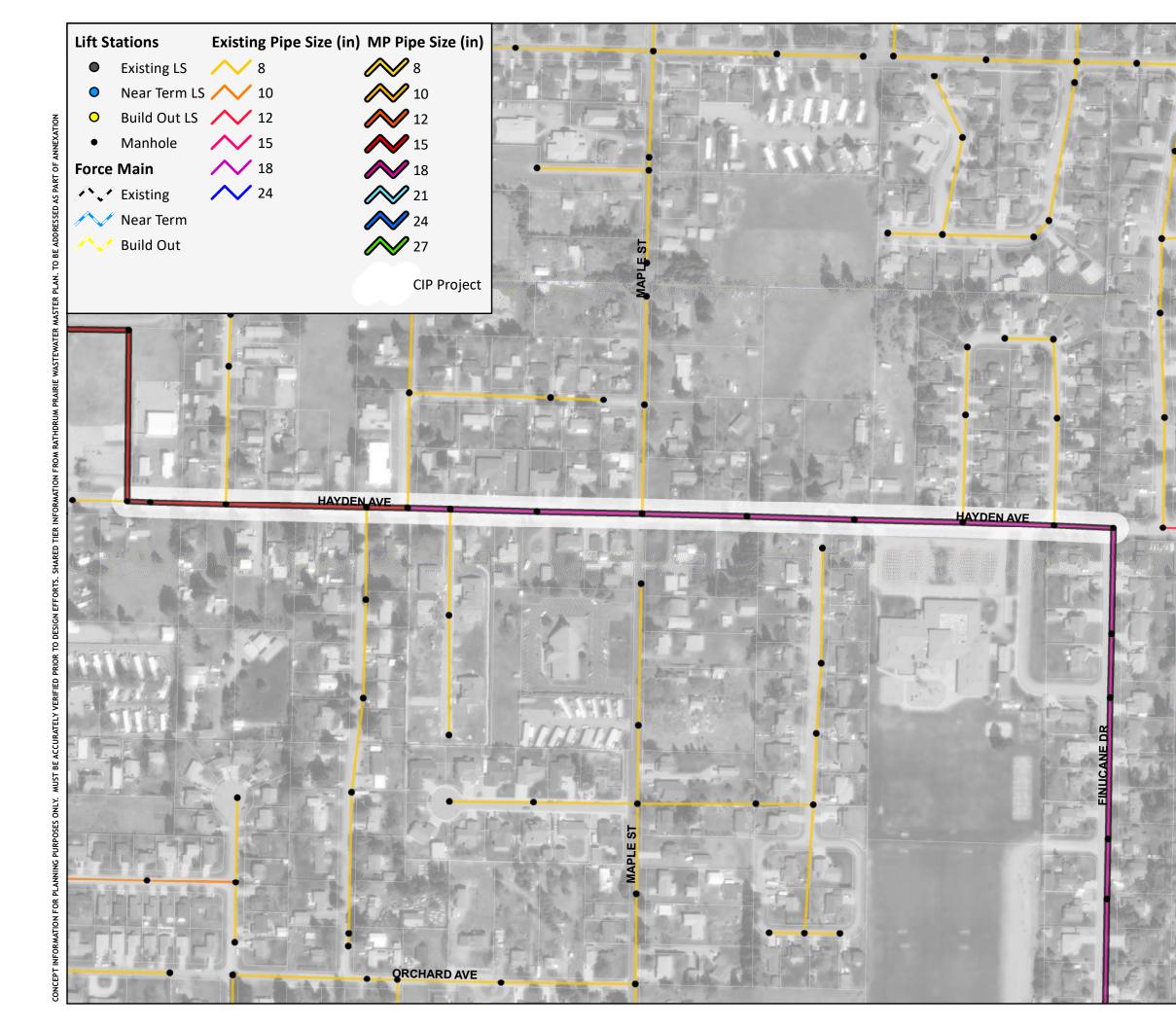
(2020 Dollars)

**PROJECT PRIORITY:** 











# **Figure F14** CIP 2.01.3 Hayden Avenue Upsize

## **CORE ISSUE:**

The H-1 gravity sewer trunk line is nearing capacity. Projected future growth requires upsizing the gravity sewer to accomate increased flows conveyed to the H-1 Lift Station.

## **RECOMMENDED SOLUTION:**

The gravity sewer in Hayden Avenue to Finucane Drive should be upsized to15-inch and 18-inch pipe. Easement procurements may be required.

### **OPINION OF PROBABLE COST:**

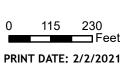
> 794 LF of 15-inch Gravity Sewer> 1,999 LF of 18-inch Gravity Sewer

\$892,000

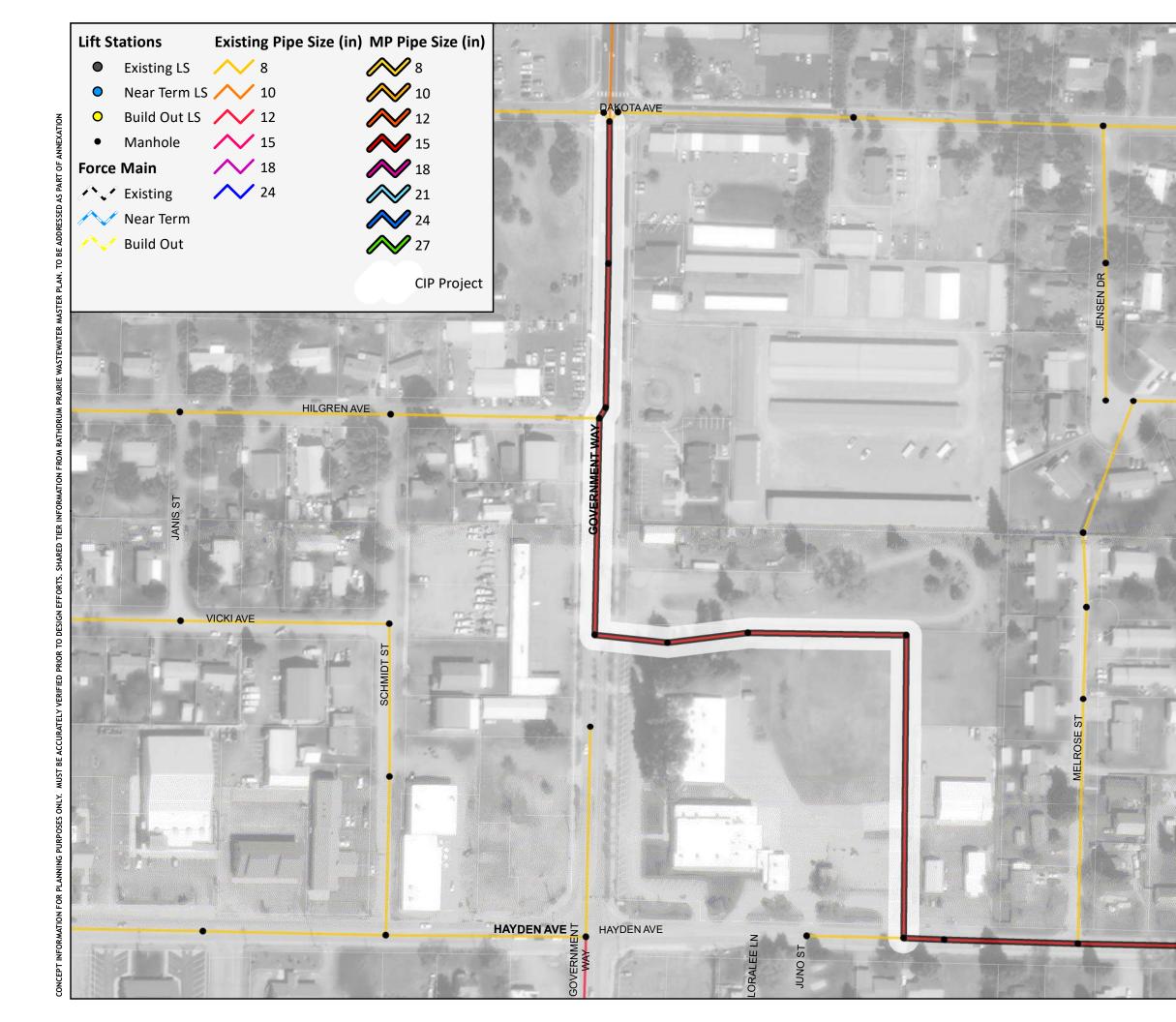
(2020 Dollars)

### **PROJECT PRIORITY:**











# **Figure F15** CIP 2.01.4 Government Way Upsize

### **CORE ISSUE:**

The H-1 gravity sewer trunk line is nearing capacity. Projected future growth requires upsizing the gravity sewer to accomate increased flows conveyed to the H-1 Lift Station.

### **RECOMMENDED SOLUTION:**

The gravity sewer in Government Way from Dakota Avenue to the connection at Hayden Avenue should be upsized to15-inch pipe. Easement procurements may be required. Consider trenchless methods of replacement to be evaluated during design.

### **OPINION OF PROBABLE COST:**

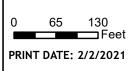
> 1,811 LF of 15-inch Gravity Sewer

\$380,000

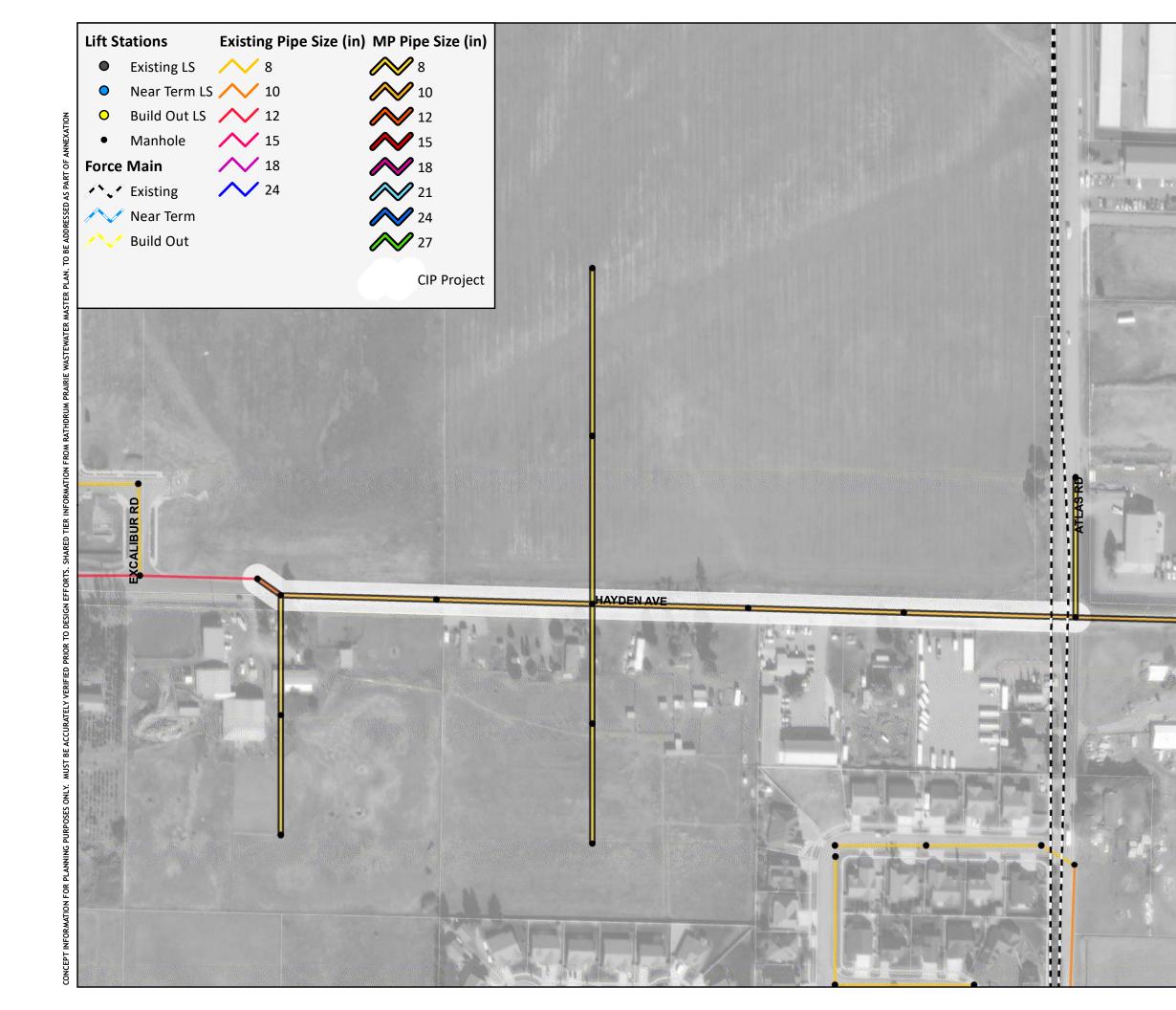
(2020 Dollars)

**PROJECT PRIORITY:** 











# **Figure F16** CIP 2.07.1 Hayden Avenue Gravity Phase I

### **CORE ISSUE:**

The Dakota Lift Station is to be eliminated in the future. In order to decomission the lift station, flow must be routed to the existing H-7 (Carrington Meadows) Lift Station.

### **RECOMMENDED SOLUTION:**

Install 10-inch and 12-inch gravity sewer pipe from Atlas Road to connect to the existing 12-inch gravity sewer in Hayden Avenue. This is a developer driven gravity main, transportation improvements may move priority forward.

### **OPINION OF PROBABLE COST:**

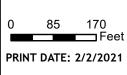
> 1,658 LF of 10-inch Gravity Sewer> 59 LF of 12-inch Gravity Sewer

\$348,000

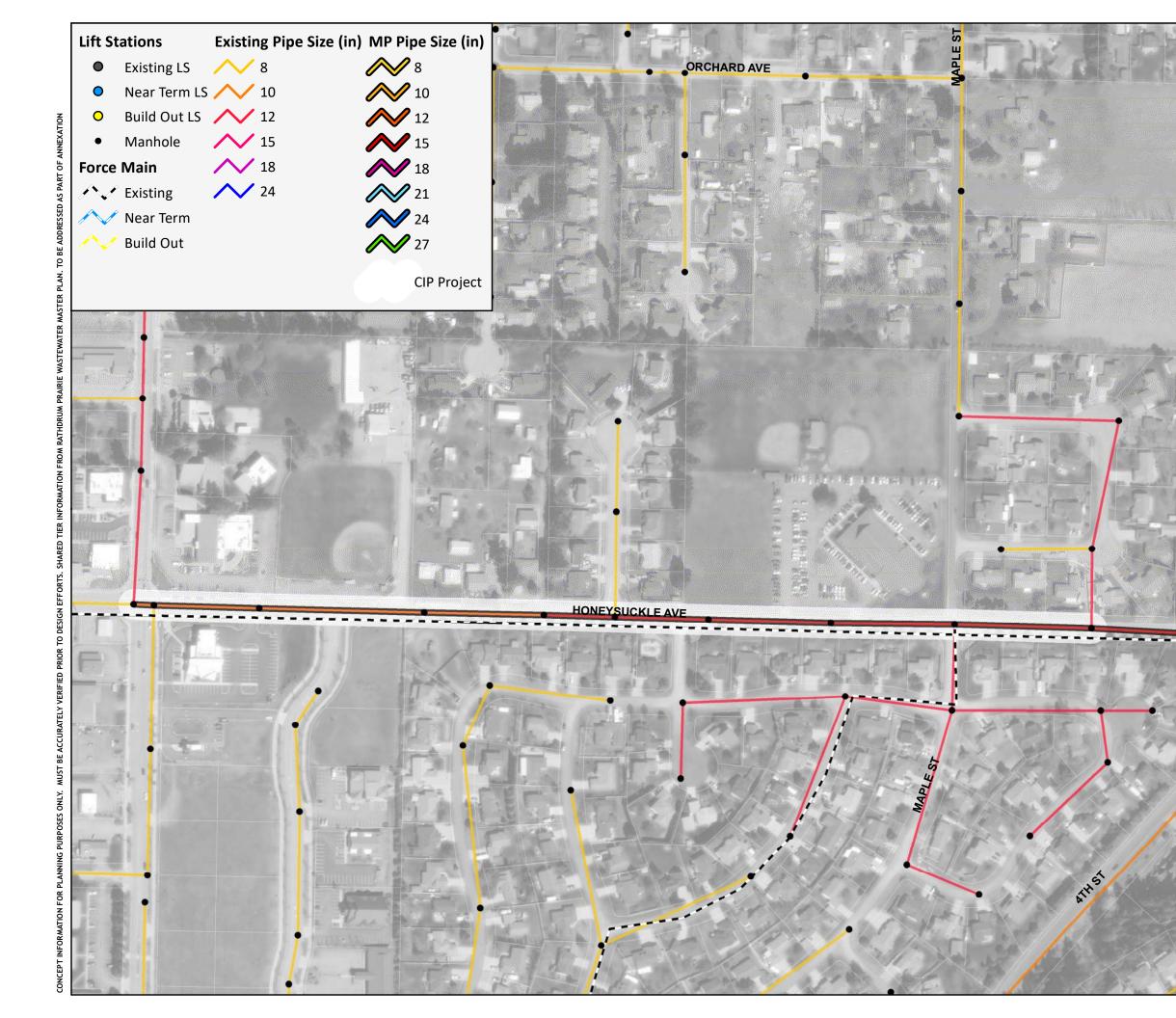
(2020 Dollars)

### **PROJECT PRIORITY:**











# **Figure F17** CIP 3.01.5 Honeysuckle Avenue Upsize Phase II

## **CORE ISSUE:**

The Honeysuckle Avenue gravity sewer line is nearing capacity. Projected future growth requires upsizing the gravity sewer to accomodate increased flows conveyed to the H-1 Lift Station.

### **RECOMMENDED SOLUTION:**

The gravity sewer in Honeysuckle Avenue from Government Way to Maple Street should be upsized to15-inch and 18-inch pipe.Easement procurements may be required.

### **OPINION OF PROBABLE COST:**

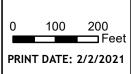
> 998 LF of 12-inch Gravity Sewer> 1,333 LF of 15-inch Gravity Sewer

## \$415,000

(2020 Dollars)

**PROJECT PRIORITY:** 











# **Figure F18** CIP 3.06.9 Ramsey Phase IV North Ramsey Force Main

### **CORE ISSUE:**

The Reed Road gravity sewer line is nearing capacity. Serving further North requires the development of the H-6 Sewer Basin.

### **RECOMMENDED SOLUTION:**

The North Ramsey Force Main will run approximately 3,658 feet and discharge flow into the future gravity pipe in Lancaster Road to be constructed as Phase III. The force main has been sized to provide capacity for the build out system flows. Easement procurement may be required. Force main location within the roadway as shown on the map is approximate and should be addressed as a part of design. The future Huetter Bypass alignment is shown for planning purposes. Depth of forcemain should be evaluated in design to ensure sufficient coverage.

### **OPINION OF PROBABLE COST:**

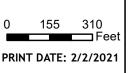
> 3,658 LF of 10-inch Pressure Pipe

\$354,000

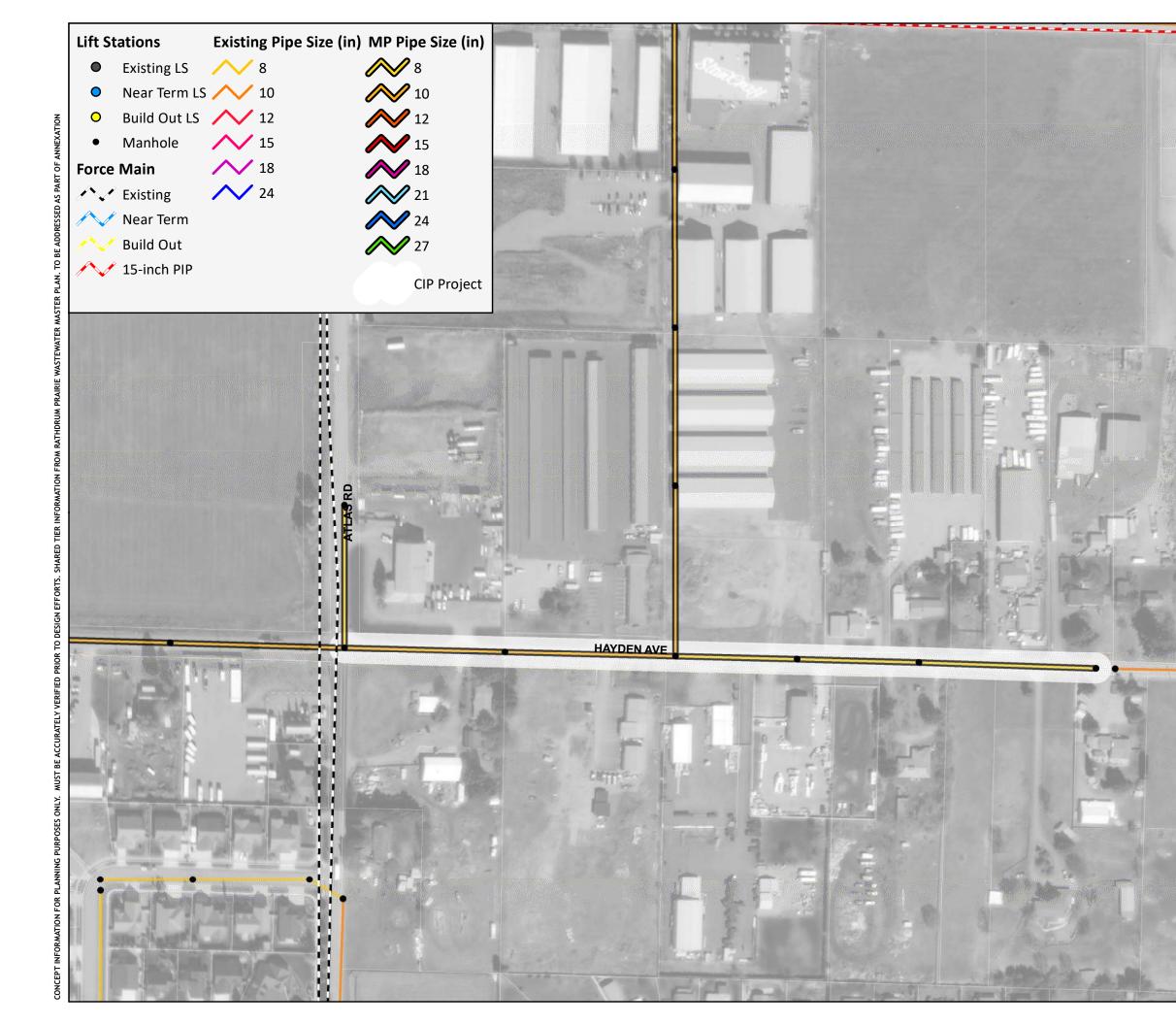
(2020 Dollars)

### **PROJECT PRIORITY:**











# **Figure F19** CIP 3.07.3 Hayden Avenue Gravity Phase II

### **CORE ISSUE:**

The Dakota Lift Station is to be eliminated in the future. In order to decomission the lift station, flow must be routed to the existing H-7 (Carrington Meadows) Lift Station.

## **RECOMMENDED SOLUTION:**

Install 8-inch and 10-inch gravity sewer pipe in Hayden Avenue West of Atlas Road and connect to the future 10-inch gravity sewer to be constructed as Phase I.

### **OPINION OF PROBABLE COST:**

> 864 LF of 8-inch Gravity Sewer

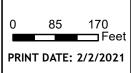
> 681 LF of 10-inch Gravity Sewer

\$373,000

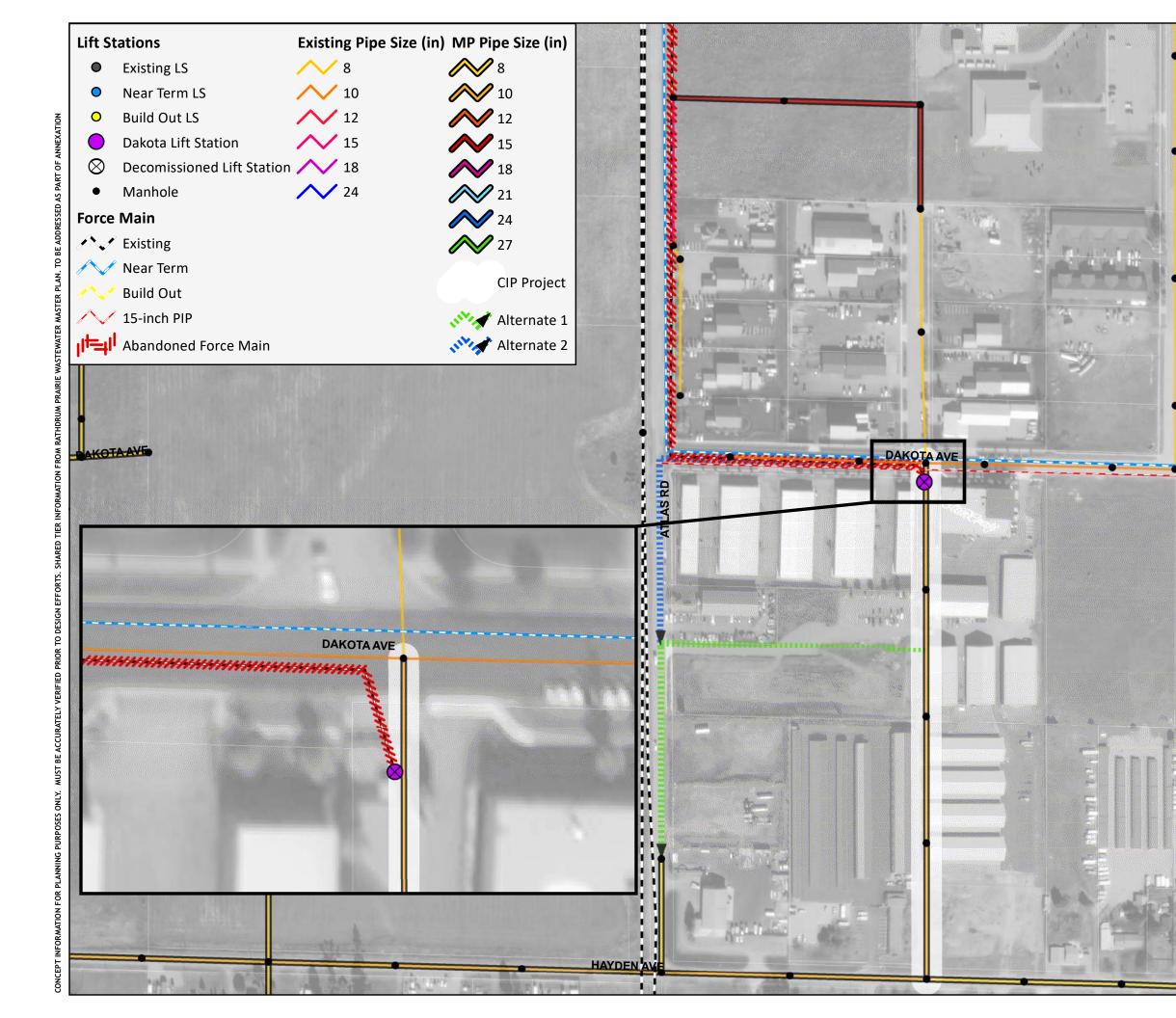
(2020 Dollars)

**PROJECT PRIORITY:** 











# **Figure F20** CIP 3.07.4 Dakota Lift Station Decomission and Gravity

## CORE ISSUE:

The Dakota Lift Station is to be eliminated in the future. In order to decomission the lift station, flow must be routed to the existing H-7 (Carrington Meadows) Lift Station.

### **RECOMMENDED SOLUTION:**

Install 10-inch gravity sewer pipe from the gravity sewer in Dakota Avenue, and connect to the future gravity sewer in Hayden Avenue to be constructed as Phase II of the Hayden Avenue gravity sewer. Easement procurements may be required. Alternate alignments to be considered during design. No cost opinion provided for alternate alignments.

### **OPINION OF PROBABLE COST:**

> 1,325 LF of 10-inch Gravity Sewer

\$136,000

(2020 Dollars)

**PROJECT PRIORITY:** 







PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	ESTIMATED CONSTRUCTION SUBTOTAL	CONTINGENCY <sup>1</sup>	CONSTRUCTION PLUS CONTINGENCY	PLANNING, ENGINEERING, & ADMINISTRATION COSTS <sup>2</sup>	TOTAL PROBABLE COST IN 2020 DOLLARS <sup>3</sup>		
HIGH PRIORITY PROJECTS (CONSTRUCTION BEGINS IN 0 TO 5 YEARS)									
1.06.1	Ramsey Phase 1	Ramsey Road Phase I - Wyoming Ave. to N. Reed Rd. Gravity	\$1,182,000	\$236,000	\$1,418,000	\$284,000	\$1,702,000		
1.06.2	Ramsey Phase 2	Ramsey Road Phase II - H-6 Lift Station to Wyoming Ave. Gravity	\$1,093,000	\$219,000	\$1,312,000	\$262,000	\$1,574,000		
1.06.3	<u>H-6 LS</u>	H-6 Lift Station	\$1,680,000	\$336,000	\$2,016,000	\$403,000	\$2,419,000		
1.06.4	<u>H-6 FM</u>	H-6 Force Main	\$3,813,000	\$763,000	\$4,576,000	\$915,000	\$5,491,000		
1.06.5	Moonridge FM	Moonridge Lift Station to H-6	\$13,000	\$3,000	\$16,000	\$3,000	\$19,000		
1.06.6	Lacey Gravity	Lacey Gravity Sewer from Krest Ct. to Hwy 95	\$90,000	\$18,000	\$108,000	\$22,000	\$130,000		
1.02.1	H-2 Piping Improvements	H-2 Lift Station and Piping Improvements	\$33,000	\$7,000	\$40,000	\$8,000	\$48,000		
1.02.2	HARSB Honeysuckle FM P1	HARSB Honeysuckle Force Main Replacement Phase I - H-1 Lift Station to HWY 95	\$1,250,000	\$250,000	\$1,500,000	\$300,000	\$1,800,000		
1.02.3	HARSB Honeysuckle FM P2	HARSB Honeysuckle Force Main Replacement Phase II - Reed Road to Dakota Avenue	\$1,729,000	\$346,000	\$2,075,000	\$415,000	\$2,490,000		
1.01.1	<u>Honeysuckle Ave</u> <u>Upsize Phase 1</u>	Honeysuckle Avenue Gravity Sewer Upsize Phase I	\$135,000	\$27,000	\$162,000	\$32,000	\$194,000		
		MEDIUM PRIORI	TY PROJECTS (CONSTRUC	TION BEGINS IN 6 TO 10	YEARS)				
2.06.7	<u>Riley FM</u>	Riley Place Lift Station to H-6	\$94,000	\$19,000	\$113,000	\$23,000	\$136,000		
2.06.8	Ramsey Phase 3	Ramsey Road Phase III - Buckles Rd. to Lancaster Ave. Gravity	\$348,000	\$70,000	\$418,000	\$84,000	\$502,000		
2.01.2	Finucane Dr Upsize	Finucane Drive Gravity Sewer Upsize	\$534,000	\$107,000	\$641,000	\$128,000	\$769,000		
2.01.3	Hayden Ave Upsize	Hayden Avenue Gravity Sewer Upsize	\$619,000	\$124,000	\$743,000	\$128,000	\$892,000		
2.01.4	Government Way Upsize	Government Way Gravity Sewer Upsize	\$264,000	\$53,000	\$317,000	\$63,000	\$380,000		
2.07.1	<u>Hayden Phase 1</u>	Hayden Avenue Phase I - Gravity Sewer from Carrington Meadows to Atlas Road	\$242,000	\$48,000	\$290,000	\$58,000	\$348,000		
2.07.2	H-7 LS Upsize	H-7 (Carrington Meadows) Lift Station Upsize	\$351,000	\$70,000	\$421,000	\$84,000	\$505,000		
		LO	W PRIORITY PROJECTS (B	EYOND 10 YEARS)					
3.01.5	Honeysuckle Ave Upsize Phase 2	Honeysuckle Avenue Gravity Sewer Upsize Phase II	\$288,000	\$58,000	\$346,000	\$69,000	\$415,000		
3.01.6	H-1 Lift Station Pump Upsize	H-1 Lift Station Pump Replacement for Future Capacity	\$341,000	\$68,000	\$409,000	\$82,000	\$491,000		
3.06.9	Ramsey Phase 4	Ramsey Road Phase IV - Lancaster Ave. to N. Ramsey Lift Station Force Main	\$246,000	\$49,000	\$295,000	\$59,000	\$354,000		
3.07.3	<u>Hayden Phase 2</u>	Hayden Avenue Phase II - Gravity Sewer from Atlas Rd to Dakota	\$259,000	\$52,000	\$311,000	\$62,000	\$373,000		
3.07.4	Dakota Elimination	Dakota Elimination Gravity Sewer	\$94,000	\$19,000	\$113,000	\$23,000	\$136,000		
	Dakota Elimination at 20% of constructi	· ·	\$94,000	\$19,000	\$113,000	\$23,000	\$136,000		

2. Planning, Engineering, & Administrative costs include: Geotechnical Evaluations, Design, Survey, Construction Management, O&M Manuals, Record Drawings, and Administration. Estimated at 20% of construction subtotal, including contingency

3. Costs are in 2020 dollars and should be inflated appropriately to the mid-point of construction for budgeting purposes. No easement acquisition or legal costs are included.

#### J·U·B ENGINEERS, INC.

#### ENGINEER'S OPINION OF PROBABLE COST

7825 Meadowlark Way, Coeur d'Alene, ID 83815 / 208.762.8787

		7825 Weadowiark way, coeur a Alerie, ib 83	813/208.702.8787
PROJECT:	City of Hayden Collection System	DATE:	16-Nov-20
	Master Plan Update		
DESCRIPTION:	Ramsey Road Phase I - Wyoming Ave. to N. Reed Rd. Gravity		
PROJECT NAME:	RAMSEY P1		
PROJECT NUMBER:	1.06.1		

ITEM NO.	DESCRIPTION	COLE	DULE OF VA	LLIES		
NO.		QTY		UNIT PRICE	TOT	TAL CO
2.06.7	Mobilization		0	5.0%	\$	
2.06.8	Construction Traffic Control			5.0%	\$	
2.01.1	Pressure Sewer Pipe				Ŧ	
4.00	Gravity Sewer Pipe					
4.01	8" PVC Gravity Sewer Pipe					
	Pipe Cost (excavation, bedding, backfill not included)	354	LF	\$ 7	\$	
	Trench Excav./Backfill for 8-12 ft deep Sewer	354	LF	\$ 12		
4.02	10" PVC Gravity Sewer Pipe					
	Pipe Cost (excavation, bedding, backfill not included)	408	LF	\$ 11	\$	
	Trench Excav./Backfill for 18-22 ft deep Sewer	223	LF	\$ 33	\$	
	Trench Excav./Backfill for >22 ft deep Sewer	185	LF	\$ 111	\$	
4.08	27" PVC Gravity Sewer Pipe					
	Pipe Cost (excavation, bedding, backfill not included)	4,692	LF	\$ 72	\$	3
	Trench Excav./Backfill for 12-18 ft deep Sewer	1,442	LF	\$ 55	\$	
	Trench Excav./Backfill for 18-22 ft deep Sewer	2,554	LF	\$ 71	\$	1
	Trench Excav./Backfill for >22 ft deep Sewer	695	LF	\$ 148	\$	1
4.09	Bedding - 8"	354	LF	\$ 3	\$	
4.10	Bedding - 10" - 15"	408	LF	\$ 6	\$	
4.11	Bedding - 18" - 27"	4,692	LF	\$ 10	\$	
5.00	Surface Repair					
5.05	Asphalt - Full Street width per City Standards (Required for 20' - 30' Depth Sewer) 4	408	LF	\$ 125	\$	
6.00	Manholes					
6.01	48" Manholes, 4-10 ft.	1	EA	\$ 5,000	\$	
6.03	48" Manholes, 16-32 ft.	1	EA	\$ 7,000	\$	
7.00	Project Specific Considerations					
7.03	72" Manholes, 16-32 ft	19	EA	\$ 11,000	\$	2
8.00	Miscellaneous Other					
8.02	Bonding and Insurance		0	1.0%	\$	
		ESTIMATED	CONSTRUC	TION SUBTOTAL	\$	1,1
				Contingency 1	\$	2
		Planning, Engineeri	5.		\$	2
		TOTAL PROBAE	BLE COST IN	2020 DOLLARS <sup>3</sup>	Ś	1,7

1 Estimated at 20% of construction subtotal.

2 Planning, Engineering, & Administrative costs include: Geotechnical Evaluations, Design, Survey, Construction Management, O&M Manuals, Record Drawings, and Administration. Estimated at 20% of construction subtotal, including contingency

3 Costs are in 2020 dollars and should be inflated appropriately to the mid-point of construction for budgeting purposes. No easement acquisition or legal costs are included.

4 Asphalt Surface Repair varies with respect to the City Typical Roadway Section of 4" Asphalt on 4" of 3/4-inch Crushed Aggregate, on 12" of Subgrade

5 This project is intended to be constructed immediately in advance of the Ramsey Road Transortation Project. Surface repair within the project boundaries is removed or reduced and assumed to be completed as a part of the following project.

### ENGINEER'S OPINION OF PROBABLE COST

J·U·B ENGINEERS, INC.		7935 Monde	wark Max	Coour d'Alono II	83815 / 208.762.8787
PROJECT:	City of Hayden Collection System	7825 Meado	wiark way,	DATE:	16-Nov-20
	Master Plan Update				
DESCRIPTION:	Ramsey Road Phase II - H-6 Lift Station to Wyoming Ave. Gravity				
PROJECT NAME:	RAMSEY P2				
PROJECT NUMBER:	1.06.2				
			I-U-B PROJ. NO	u .	20-19-042 (001-008)
ITEM	DESCRIPTION				
NO.		QTY	DULE OF VA UNIT	LUES UNIT PRICE	TOTAL COST
2.06.7	Mobilization	411	0.011	5.0%	\$ 50,000
2.06.8	Construction Traffic Control			5.0%	\$ 50,000
2.01.1	Pressure Sewer Pipe			5.070	Ş 50,000
4.00	Gravity Sewer Pipe				
4.01	8" PVC Gravity Sewer Pipe				
4.01	Pipe Cost (excavation, bedding, backfill not included)	574	LF	\$ 7	\$ 3,901
	Trench Excav./Backfill for 8-12 ft deep Sewer	574	LF	\$ 12	\$ 6,884
4.08	27" PVC Gravity Sewer Pipe	574	-	ý 12	ç 0,004
	Pipe Cost (excavation, bedding, backfill not included)	3,720	LF	\$ 72	\$ 267,808
	Trench Excav./Backfill for 12-18 ft deep Sewer	2,800	LF	\$ 55	\$ 154,000
	Trench Excev./Backfill for 18-22 ft deep Sewer	920	LF	\$ 71	\$ 65,289
4.09	Bedding - 8"	574	LF	\$ 3	\$ 1,721
4.11	Bedding - 18" - 27"	3,720	LF	\$ 10	\$ 37,196
5.00	Surface Repair	-,			+
5.03	Asphalt - Trench Patch width per City Standards (Required for 4-16' Depth Sewer) 4	974	LF	\$ 44	\$ 42,841
5.04	Asphalt - 1/2 Street width per City Standards (Required for 16-20' Depth Sewer) 4	3,320	LF	\$ 70	\$ 232,369
6.00	Manholes			· · ·	+
6.01	48" Manholes, 4-10 ft.	2	EA	\$ 5,000	\$ 10,000
7.00	Project Specific Considerations				
7.03	72" Manholes, 16-32 ft	11	EA	\$ 11,000	\$ 121,000
8.00	Miscellaneous Other				, ,,,,,
8.01	Bypass Pumping		0	5.0%	\$ 41,000
8.02	Bonding and Insurance		0	1.0%	\$ 9,000
	· · · ·	ESTIMATED	CONSTRUC	TION SUBTOTAL	\$ 1,093,000
				Contingency <sup>1</sup>	\$ 219,000
		Planning, Engineeri	ng, & Admin	istrative Costs <sup>2</sup>	\$ 262,000
		TOTAL PROBA	LE COST IN	2020 DOLLARS <sup>3</sup>	\$ 1,574,000

1 Estimated at 20% of construction subtotal.

2 Planning, Engineering, & Administrative costs include: Geotechnical Evaluations, Design, Survey, Construction Management, O&M Manuals, Record Drawings, and Administration. Estimated at 20% of construction subtotal, including contingency

3 Costs are in 2020 dollars and should be inflated appropriately to the mid-point of construction for budgeting purposes. No easement acquisition or legal costs are included.

4 Asphalt Surface Repair varies with respect to the City Typical Roadway Section of 4" Asphalt on 4" of 3/4-inch Crushed Aggregate, on 12" of Subgrade

5 Surface repair is assumed to return the disturbed road to the original condition.



#### ENGINEER'S OPINION OF PROBABLE COST

7825 Meadowlark Way, Coeur d'Alene, ID 83815 / 208.762.8787 PROJECT: City of Hayden Collection System DATE: 16-Nov-20 Master Plan Update DESCRIPTION: H-6 Lift Station H-6 LS PROJECT NAME: 1.06.3 PROJECT NUMBER: J-U-B PROJ. NO.: 20-19-042 (001-008) ITEM DESCRIPTION NO. SCHEDULE OF VALUES QTY UNIT UNIT PRICE TOTAL COST ITEM No. Unit Price **Total Price** Description Est. Quant Unit Mobilization 2.06.7 5.0% Ś 52,000 2.06.8 **Construction Traffic Control** 0.0% \$ 2.01.1 Triplex Submersible Lift Station 2.01.2 Wet Pit Excavation and Backfill 1 \$30,000 2.01.3 LS \$30,000 Concrete 2.07.1 Slah 5 CY \$600 \$3,000 Elevated Slab 3 \$4,000 3.06.9 \$1,200 CY 29 3.07.2 Walls CY \$1,000 \$28,500 Grout fillet 1 3.07.3 LS \$5,000 \$5,000 1 Cover and Access Hatch ΕA \$10,000 \$10,000 3.02 Valve Vault 1 Excavation and Backfill LS \$0 \$0 Concrete Slab 5 CY \$600 \$2,50 Elevated Slab 3 CY \$1,200 \$4,000 Walls 6 CY \$1,000 \$6,000 1 Cover and Access Hatch ΕA \$6,000 \$6,000 3.03 Overflow Basin (96,000 gallons required for 30 minutes of overflow volume at peak flow) Excavation and Backfill 1 \$75,000 \$75,000 LS Concrete Slab 67 CY \$600 \$40,50 Elevated Slab 62 \$1,200 \$74.000 CY Walls 54 CY \$1,000 \$54,000 Internal Pier Supports (4) 1 \$4,500 LS \$4,363 Grout Floor 1 LS \$5,000 \$5,000 Cover and Access Hatch 1 LS \$10,000 \$10,000 Sluice Gate and Wall Penetrations for flow transfer 1 \$7,500 LS \$7,500 3.04 Control Building Building 300 SF \$250 \$75,000 11 **Building Foundation** CY \$600 \$6,667 3.05 Site Piping 1 Water Service and RPBA \$10,000 \$10.000 LS Wet Pit and Valve Vault Piping and appurtenances 1 LS \$100,000 \$100,000 Flow Meter, vault and piping 1 \$75,000 \$75,000 LS 250 FM Onsite Piping and Fittings LF \$200 \$50,000 FM Drain Assembly 1 LS \$10,000 \$10,000 250 27" Gravity Sewer LE \$150 \$37,500 3.06 Equipment 3 Pumps - 3 total ΕA \$75,000 \$225,000 Installation and Mark-up 25% \$56,300 1 Odor Control LS \$20,000 \$20,000 Installation and Mark-up 25% \$5,000 3.07 Project Specific Considerations Land - 1/2 Acre Site 1 \$120,000 \$120,000 LS 100 Gravel Access Road LE \$28 \$2,800 Additional Elements (estimated % of above) 3.08 Site Civil (Final Grading, Landscaping, Fencing, etc) 5.0% \$58,000 Electrical and Instrumentation 35.0% \$407,000

ESTIMATED CONSTRUCTION SUBTOTAL 1,680,000 Contingency 336.000 Ś Planning, Engineering, & Administrative Costs 403,000 TOTAL PROBABLE COST IN 2020 DOLLARS<sup>3</sup> 2.419.000 Ś

1 Estimated at 20% of construction subtotal

2 Planning, Engineering, & Administrative costs include: Geotechnical Evaluations, Design, Survey, Construction Management, O&M Manuals, Record Drawings, and Administration. Estimated at 20% of construction subtotal, including contingency

3 Costs are in 2020 dollars and should be inflated appropriately to the mid-point of construction for budgeting purposes. No easement acquisition or legal costs are included.

### ENGINEER'S OPINION OF PROBABLE COST

JECT:	City of Hayden Collection System			DATE	:	16-Nov-20
	Master Plan Update					
CRIPTION:	H-6 Force Main					-
JECT NAME:	H-6 FORCE MAIN					
JECT NUMBER:	1.06.4					
			J-U-B PROJ. N	10.:	20-1	9-042 (001-008)
ITEM	DESCRIPTION					
NO.			HEDULE OF V		T	
		QTY	UNIT	UNIT PRICE		TOTAL COST
2.06.7	Mobilization			5.0%	\$	173,00
2.06.8	Construction Traffic Control			5.0%	\$	173,00
2.01.1	Pressure Sewer Pipe					
3.04	10" Pressure Sewer Pipe					
	Pipe, fittings, valves, air vac assemblies (excavation, bedding, backfill not included)	7,70	6 LF	\$ 37	\$	282,27
3.07	16" Pressure Sewer Pipe					
	Pipe, fittings, valves, air vac assemblies (excavation, bedding, backfill not included)	7,70		\$ 80		619,0
	Trench Excav./Backfill for 4-8 ft deep Sewer	7,70	6 LF	\$ 22	\$	169,53
3.08	PIP Replacement					
	18" Pressure Sewer Pipe					
	Pipe, fittings, valves, air vac assemblies (excavation, bedding, backfill not included)	7,49		\$ 168		1,259,06
	Trench Excav./Backfill for 4-8 ft deep Sewer	7,49		\$ 29		217,3
3.12	Bedding - 10" - 14"	7,70		\$ 6		46,23
3.13	Bedding - 16" - 24"	15,20	0 LF	\$ 10	\$	152,00
4.00	Gravity Sewer Pipe					
5.00	Surface Repair					
5.04	Asphalt - 1/2 Street width per City Standards (Required for 16-20' Depth Sewer) 4	7,49	4 LF	\$ 70	\$	524,58
6.00	Manholes					
7.00	Project Specific Considerations					
8.00	Miscellaneous Other					
8.01	Bypass Pumping		0	5.0%	\$	164,00
8.02	Bonding and Insurance		v	1.0%	\$	33,00
		ESTIMAT	ED CONSTRU	CTION SUBTOTAL		3,813,00
		Planning Engine	oring 8 Adm	<sup>1</sup> Contingency inistrative Costs	\$	763,0
			ering, & Aam ABLE COST II	mistrative costs	Ş	915,0

1 Estimated at 20% of construction subtotal.

2 Planning, Engineering, & Administrative costs include: Geotechnical Evaluations, Design, Survey, Construction Management, O&M Manuals, Record Drawings, and Administration. Estimated at 20% of construction subtotal, including contingency

3 Costs are in 2020 dollars and should be inflated appropriately to the mid-point of construction for budgeting purposes. No easement acquisition or legal costs are included.

4 Asphalt Surface Repair varies with respect to the City Typical Roadway Section of 4" Asphalt on 4" of 3/4-inch Crushed Aggregate, on 12" of Subgrade

5 The 15-inch PIP is located in the same roadway and is to be replaced in coordination with HARSB as a part of this project.

#### J·U·B ENGINEERS, INC.

### ENGINEER'S OPINION OF PROBABLE COST

7825 Meadowlark Way, Coeur d'Alene, ID 83815 / 208.762.8787 PROJECT: City of Hayden Collection System DATE: 16-Nov-20 Master Plan Update DESCRIPTION: Moonridge Lift Station to H-6 MOONRIDGE FORCE MAIN PROJECT NAME: 1.06.5 PROJECT NUMBER: J-U-B PROJ. NO.: 20-19-042 (001-008) ITEM DESCRIPTION SCHEDULE OF VALUES NO. QTY UNIT UNIT PRICE TOTAL COST 2.06.7 Mobilization 5.0% 1,000 2.06.8 Construction Traffic Control 5.0% Ś 1,000 2.01.1 Pressure Sewer Pipe 2.01.2 4" Pressure Sewer Pipe 2.01.3 Pipe, fittings, valves, air vac assemblies (excavation, bedding, backfill not included) 108 LF 12 1,290 \$ \$ 2.07.1 Trench Excav./Backfill for 4-8 ft deep Sewer 108 LF 10 1,078 \$ \$ 3.11 Bedding - 4" - 8" 108 LF \$ 3 \$ 323 4.00 Gravity Sewer Pipe 5.00 Surface Repair Asphalt - 1/2 Street width per City Standards (Required for 16-20' Depth Sewer) 4 70 5.04 108 LF \$ \$ 7,543 6.00 Manholes Project Specific Considerations 7.00 8.00 Miscellaneous Other

8.01 Bypass Pumping 0 5.0% 1.000 ESTIMATED CONSTRUCTION SUBTOTAL 13,000 \$ Contingency Ś 3,000 Planning, Engineering, & Administrative Costs 3,000 TOTAL PROBABLE COST IN 2020 DOLLARS 19,000

1 Estimated at 20% of construction subtotal.

2 Planning, Engineering, & Administrative costs include: Geotechnical Evaluations, Design, Survey, Construction Management, O&M Manuals, Record Drawings, and Administration. Estimated at 20% of construction subtotal, including contingency

3 Costs are in 2020 dollars and should be inflated appropriately to the mid-point of construction for budgeting purposes. No easement acquisition or legal costs are included.

### **ENGINEER'S OPINION OF PROBABLE COST**

J-U-B ENGINEERS, INC.					
		7825 Meado	wlark Way, 0	Coeur d'Alene, I	0 83815 / 208.762.8787
PROJECT:	City of Hayden Collection System			DATE:	16-Nov-20
	Master Plan Update				
DESCRIPTION:	Lacey Gravity Sewer from Krest Ct. to Hwy 95				
PROJECT NAME:	LACEY_GRAV				
PROJECT NUMBER:	1.06.6				
			J-U-B PROJ. NO	.:	20-19-042 (001-008)
ITEM	DESCRIPTION				
NO.	DESCRIPTION	SCHE	DULE OF VA	LUES	
		QTY	UNIT	UNIT PRICE	TOTAL COST
2 06 7	Mobilization			5.0%	\$ 4.000

2.06.7	Mobilization			5.0%	\$ 4,000
2.06.8	Construction Traffic Control			5.0%	\$ 4,000
2.01.1	Pressure Sewer Pipe				
4.00	Gravity Sewer Pipe				
4.01	8" PVC Gravity Sewer Pipe				
	Pipe Cost (excavation, bedding, backfill not included)	660	LF	\$ 7	\$ 4,488
	Trench Excav./Backfill for 8-12 ft deep Sewer	460	LF	\$ 12	\$ 5,520
	Trench Excav./Backfill for 12-18 ft deep Sewer	200	LF	\$ 15	\$ 3,000
4.09	Bedding - 8"	660	LF	\$ 3	\$ 1,980
5.00	Surface Repair				
5.04	Asphalt - 1/2 Street width per City Standards (Required for 16-20' Depth Sewer) 4	660	LF	\$ 70	\$ 46,200
6.00	Manholes				
6.01	48" Manholes, 4-10 ft.	2	EA	\$ 5,000	\$ 10,000
6.02	48" Manholes, 10-16 ft.	1	EA	\$ 5,500	\$ 5,500
7.00	Project Specific Considerations				
8.00	Miscellaneous Other				
8.01	Bypass Pumping		0	5.0%	\$ 4,000
8.02	Bonding and Insurance		0	1.0%	\$ 1,000
		ESTIMATED	CONSTRUCT	TION SUBTOTAL	\$ 90,000
				Contingency <sup>1</sup>	\$ 18,000
		Planning, Engineerin	ig, & Admini	istrative Costs <sup>2</sup>	\$ 22,000
		TOTAL PROBAB	LE COST IN 2	2020 DOLLARS <sup>3</sup>	\$ 130,000

1 Estimated at 20% of construction subtotal.

2 Planning, Engineering, & Administrative costs include: Geotechnical Evaluations, Design, Survey, Construction Management, O&M Manuals, Record Drawings, and Administration. Estimated at 20% of construction subtotal, including contingency

3 Costs are in 2020 dollars and should be inflated appropriately to the mid-point of construction for budgeting purposes. No easement acquisition or legal costs are included.



### **ENGINEER'S OPINION OF PROBABLE COST**

		7825	Meadowlar	k Way, Coeur d'Alene,	ID 83	815 / 208.762.8787	
PROJECT:	City of Hayden Collection System			DAT		16-Nov-20	
	Master Plan Update						
DESCRIPTION:	H-2 Lift Station and Piping Improvements						
PROJECT NAME:	H-2 LS Improvements						
PROJECT NUMBER:	1.02.1						
			J-U-B PR	OJ. NO.:	20-	19-042 (001-008)	
ITEM	DESCRIPTION						
NO.				SCHEDULE OF VAL	ALUES		
		QT	/ UN	IT UNIT PRICE		TOTAL COST	
ITEM No.	Description	Est. Qu	ant. Un	it Unit Price		Total Price	
2.06.7	Mobilization			5.0%	\$	1,000	
2.06.8	Construction Traffic Control			10.0%	\$	2,000	
2.01.1	Existing Lift Station Improvements						
2.01.2	Site Piping						
2.01.3	LS Manhole Modifications	1	L	\$ \$10,000	)	\$10,000	
2.07.1	Influent Gravity Sewer Piping	1	L	\$ \$10,000	)	\$10,000	
3.06.9	Project Specific Considerations						
3.07.2	Surface Improvements	1	LS	\$ \$10,000	)	\$10,000	
3.07.3							
3.08	Additional Elements (estimated % of above)						
	Site Civil (Final Grading, Landscaping, Fencing, etc)			0.0	6	\$0	
	Electrical and Instrumentation			0.0	6	\$0	

Electrical and Instrumentation			0.0%	\$0
	ESTIMATE	D CONSTRU	CTION SUBTOTAL	\$ 33,000
			Contingency <sup>1</sup>	\$ 7,000
Plan	ning, Enginee	ring, & Admi	nistrative Costs <sup>2</sup>	\$ 8,000
1	OTAL PROBA	ABLE COST IN	2020 DOLLARS <sup>3</sup>	\$ 48,000

1 Estimated at 20% of construction subtotal.

2 Planning, Engineering, & Administrative costs include: Geotechnical Evaluations, Design, Survey, Construction Management, O&M Manuals, Record Drawings, and Administration. Estimated at 20% of construction subtotal, including contingency

3 Costs are in 2020 dollars and should be inflated appropriately to the mid-point of construction for budgeting purposes. No easement acquisition or legal costs are included.

### ENGINEER'S OPINION OF PROBABLE COST

		7625 116446	mark may,		83815 / 208.762.87
DJECT:	City of Hayden Collection System			DATE:	16-Nov-20
	Master Plan Update				
SCRIPTION:	HARSB Honeysuckle Force Main Replacement Phase I - H-1 Lift Station to HWY 95				
DJECT NAME:	HONEYSUCKLE FM P1				
DJECT NUMBER:	1.02.2				
ITEM		]	-U-B PROJ. NC	0.:	20-19-042 (001-008)
NO.	DESCRIPTION	SCHEI	DULE OF VA	LUES	
		QTY	UNIT	UNIT PRICE	TOTAL COST
2.06.7	Mobilization			5.0%	\$ 57,0
2.06.8	Construction Traffic Control			5.0%	\$ 57,0
2.01.1	Pressure Sewer Pipe				
3.08	18" Pressure Sewer Pipe				
	Pipe, fittings, valves, air vac assemblies (excavation, bedding, backfill not included)	4,730	LF	\$ 122	\$ 578,8
	Trench Excav./Backfill for 4-8 ft deep Sewer	4,730	LF	\$ 24	\$ 113,5
3.13	Bedding - 16" - 24"	4,730	LF	\$ 10	\$ 47,3
4.00	Gravity Sewer Pipe				
5.00	Surface Repair				
5.04	Asphalt - 1/2 Street width per City Standards (Required for 16-20' Depth Sewer) 4	4,730	LF	\$ 70	\$ 331,1
6.00	Manholes				
7.00	Project Specific Considerations				
8.00	Miscellaneous Other				
8.01	Bypass Pumping		0	5.0%	\$ 54,0
8.02	Bonding and Insurance		0	1.0%	\$ 11,0
		ESTIMATED	CONSTRUC	TION SUBTOTAL	\$ 1,250,0
				Contingency <sup>1</sup>	\$ 250,0
		Planning, Engineerir	ng, & Admin	istrative Costs <sup>2</sup>	\$ 300,0
		TOTAL PROBAB			\$ 1,800,0

1 Estimated at 20% of construction subtotal.

2 Planning, Engineering, & Administrative costs include: Geotechnical Evaluations, Design, Survey, Construction Management, O&M Manuals, Record Drawings, and Administration. Estimated at 20% of construction subtotal, including contingency

3 Costs are in 2020 dollars and should be inflated appropriately to the mid-point of construction for budgeting purposes. No easement acquisition or legal costs are included.

### ENGINEER'S OPINION OF PROBABLE COST

OJECT:	City of Hayden Collection System			DATE:	16-Nov-20
	Master Plan Update				
SCRIPTION:	HARSB Honeysuckle Force Main Replacement Phase II - Reed Road to Dakota Avenue				
ROJECT NAME:	HONEYSUCKLE FM P2				
ROJECT NUMBER:	1.02.3				
		L	-U-B PROJ. NO		20-19-042 (001-008)
ITEM	DESCRIPTION				
NO.			DULE OF VA	LUES UNIT PRICE	TOTAL COST
2 06 7	Mobilization	QTY	UNIT	5.0%	
2.06.7					\$ 79,0
2.06.8	Construction Traffic Control			5.0%	\$ 79,0
2.01.1	Pressure Sewer Pipe				
3.08	18" Pressure Sewer Pipe				
	Pipe, fittings, valves, air vac assemblies (excavation, bedding, backfill not included)	6,547	LF	\$ 122	\$ 801,2
	Trench Excav./Backfill for 4-8 ft deep Sewer	6,547	LF	\$ 24	\$ 157,1
3.13	Bedding - 16" - 24"	6,547	LF	\$ 10	\$ 65,4
4.00	Gravity Sewer Pipe				1
5.00	Surface Repair				
5.04	Asphalt - 1/2 Street width per City Standards (Required for 16-20' Depth Sewer) 4	6,547	LF	\$ 70	\$ 458,2
6.00	Manholes				1
7.00	Project Specific Considerations				
8.00	Miscellaneous Other				1
8.01	Bypass Pumping		0	5.0%	\$ 74,0
8.02	Bonding and Insurance		0	1.0%	\$ 15,0
		ESTIMATED	CONSTRUC	TION SUBTOTAL	\$ 1,729,0
				Contingency 1	\$ 346,
		Planning, Engineerir	ng, & Admin	istrative Costs <sup>2</sup>	\$ 415,
		TOTAL PROBAB	IE COST IN	2020 0011 400 3	\$ 2,490,0

1 Estimated at 20% of construction subtotal.

2 Planning, Engineering, & Administrative costs include: Geotechnical Evaluations, Design, Survey, Construction Management, O&M Manuals, Record Drawings, and Administration. Estimated at 20% of construction subtotal, including contingency

3 Costs are in 2020 dollars and should be inflated appropriately to the mid-point of construction for budgeting purposes. No easement acquisition or legal costs are included.

J·U·B ENGINEERS, INC.

### ENGINEER'S OPINION OF PROBABLE COST

7825 Meadowlark Way, Coeur d'Alene, ID 83815 / 208.762.8787

		7625 IVIEAUOWIAIK WAY, COEUL U AIEL	ie, iD 6561	13/208./02.8/8/
PROJECT:	City of Hayden Collection System	DA	ATE:	16-Nov-20
	Master Plan Update			
DESCRIPTION:	Honeysuckle Avenue Gravity Sewer Upsize Phase I			
PROJECT NAME:	HONEYSUCKLE_UPSIZE_P1			
PROJECT NUMBER:	1.01.1			
		J-U-B PROJ. NO.:	20-19	-042 (001-008)

ITEM NO.	DESCRIPTION	SCHE	DULE OF VA	LUES		
		QTY	UNIT	UNIT PRICE		TOTAL COST
2.06.7	Mobilization			5.0%	\$	6,00
2.06.8	Construction Traffic Control			5.0%	\$	6,0
2.01.1	Pressure Sewer Pipe					
4.00	Gravity Sewer Pipe					
4.04	15" PVC Gravity Sewer Pipe					
	Pipe Cost (excavation, bedding, backfill not included)	1,420	LF	\$ 23	\$	32,5
	Trench Excav./Backfill for 8-12 ft deep Sewer	331	LF	\$ 24	\$	7,9
	Trench Excav./Backfill for 12-18 ft deep Sewer	1,090	LF	\$ 30	\$	32,
4.10	Bedding - 10" - 15"	1,420	LF	\$ 6	\$	8,
5.00	Surface Repair					
6.00	Manholes					
6.02	48" Manholes, 10-16 ft.	5	EA	\$ 5,500	\$	27,
6.03	48" Manholes, 16-32 ft.	1	EA	\$ 7,000	\$	7,
7.00	Project Specific Considerations					
8.00	Miscellaneous Other					
8.01	Bypass Pumping		0	5.0%	\$	6,
8.02	Bonding and Insurance		0	1.0%	\$	1,
		ESTIMATED	CONSTRUC	TION SUBTOTAL	\$	135,
				Contingency <sup>1</sup>	\$	27,
		Planning, Engineeri	ng, & Admin	istrative Costs <sup>2</sup>	\$	32,
		TOTAL PROBAL	BLE COST IN	2020 DOLLARS <sup>3</sup>	Ś	194,

1 Estimated at 20% of construction subtotal.

2 Planning, Engineering, & Administrative costs include: Geotechnical Evaluations, Design, Survey, Construction Management, O&M Manuals, Record Drawings, and Administration. Estimated at 20% of construction subtotal, including contingency

3 Costs are in 2020 dollars and should be inflated appropriately to the mid-point of construction for budgeting purposes. No easement acquisition or legal costs are included.

4 Asphalt Surface Repair varies with respect to the City Typical Roadway Section of 4" Asphalt on 4" of 3/4-inch Crushed Aggregate, on 12" of Subgrade

5 This project is intended to be constructed immediately in advance of the Honeysuckle and 4th Street Round About Transortation Project. Surface repair within the project boundaries is removed or reduced and assumed to be completed as a part of the following project.

#### J·U·B ENGINEERS, INC.

2.01.3

2.07.1

3.11

4.00

5.00

5.03

6.00

7.00 8.00

8.01

8.02

#### ENGINEER'S OPINION OF PROBABLE COST

7825 Meadowlark Way, Coeur d'Alene, ID 83815 / 208.762.8787 PROJECT: City of Hayden Collection System DATE: 16-Nov-20 Master Plan Update Riley Place Lift Station to H-6 DESCRIPTION: RILEY FORCE MAIN PROJECT NAME: PROJECT NUMBER: 2.06.7 J-U-B PROJ. NO.: 20-19-042 (001-008) ITEM DESCRIPTION SCHEDULE OF VALUES NO. QTY UNIT UNIT PRICE TOTAL COST 2.06.7 Mobilization 5.0% 4,000 2.06.8 Construction Traffic Control 5.0% 4,000 Ś 2.01.1 Pressure Sewer Pipe 2.01.2 4" Pressure Sewer Pipe

1	Estimated a	it 20%	of	construction	subtotal.

Project Specific Considerations

Bedding - 4" - 8"

Gravity Sewer Pipe

Miscellaneous Other

Bypass Pumping

Bonding and Insurance

Surface Repair

Manholes

2 Planning, Engineering, & Administrative costs include: Geotechnical Evaluations, Design, Survey, Construction Management, 0&M Manuals, Record Drawings, and Administration. Estimated at 20% of construction subtotal, including contingency

1,176

1,176

1,176

1,176

LF

LF

LF \$

LF \$

0

ESTIMATED CONSTRUCTION SUBTOTAL

TOTAL PROBABLE COST IN 2020 DOLLARS<sup>3</sup> \$

Planning, Engineering, & Administrative Costs

\$

\$

12

10 \$

3 Ś

44 \$

5.0%

1.0%

Contingency

\$

\$

Ś

Ś

14,077

11,760

3,528

51,746

4,000

1,000

94.000

19,000

23,000

136,000

3 Costs are in 2020 dollars and should be inflated appropriately to the mid-point of construction for budgeting purposes. No easement acquisition or legal costs are included.

4 Asphalt Surface Repair varies with respect to the City Typical Roadway Section of 4" Asphalt on 4" of 3/4-inch Crushed Aggregate, on 12" of Subgrade

Pipe, fittings, valves, air vac assemblies (excavation, bedding, backfill not included)

Asphalt - Trench Patch width per City Standards (Required for 4-16' Depth Sewer) 4

Trench Excav./Backfill for 4-8 ft deep Sewer

#### J·U·B ENGINEERS, INC.

### **ENGINEER'S OPINION OF PROBABLE COST**

7825 Meadowlark Way, Coeur d'Alene, ID 83815 / 208.762.8787

 PROJECT:
 City of Hayden Collection System
 DATE:
 16-Nov-20

 Master Plan Update
 16-Nov-20

 DESCRIPTION:
 Ramsey Road Phase III - Buckles Rd. to Lancaster Ave. Gravity

 PROJECT NAME:
 RAMSEY P3

 PROJECT NUMBER:
 2.06.8

NO.	DESCRIPTION	SCH	DULE OF V	ALUES			
		QTY	UNIT	UN	IT PRICE		TOTAL COST
2.06.7	Mobilization				5.0%	\$	16,0
2.06.8	Construction Traffic Control				5.0%	\$	16,0
2.01.1	Pressure Sewer Pipe						
4.00	Gravity Sewer Pipe						
4.06	21" PVC Gravity Sewer Pipe						
	Pipe Cost (excavation, bedding, backfill not included)	1,587	LF	\$	74	\$	117,4
	Trench Excav./Backfill for 8-12 ft deep Sewer	576	LF	\$	35	\$	20,:
	Trench Excav./Backfill for 12-18 ft deep Sewer	1,011	LF	\$	45	\$	45,
4.07	24" PVC Gravity Sewer Pipe						
	Pipe Cost (excavation, bedding, backfill not included)	299	LF	\$	67	\$	20,
	Trench Excav./Backfill for 12-18 ft deep Sewer	299	LF	\$	50	\$	14,
4.11	Bedding - 18" - 27"	1,885	LF	\$	10	\$	18,
5.00	Surface Repair						
5.01	Natural Ground	1,885	LF	\$	15	\$	28,
6.00	Manholes						
6.01	48" Manholes, 4-10 ft.	1	EA	\$	5,000	\$	5,
6.02	48" Manholes, 10-16 ft.	5	EA	\$	5,500	\$	27,
7.00	Project Specific Considerations						
8.00	Miscellaneous Other						
8.01	Bypass Pumping		0		5.0%	\$	15,
8.02	Bonding and Insurance		0		1.0%	\$	3,
		ESTIMATED	CONSTRU	TION S	UBTOTAL	\$	348,
				Cont	ingency 1	\$	70,
		Planning, Engineer	ng, & Admii	nistrativ	e Costs <sup>2</sup>	\$	84
		TOTAL PROBA	BLE COST IN	2020 0	OLI ARS <sup>3</sup>	Ś	502,

1 Estimated at 20% of construction subtotal.

2 Planning, Engineering, & Administrative costs include: Geotechnical Evaluations, Design, Survey, Construction Management, O&M Manuals, Record Drawings, and Administration. Estimated at 20% of construction subtotal, including contingency

3 Costs are in 2020 dollars and should be inflated appropriately to the mid-point of construction for budgeting purposes. No easement acquisition or legal costs are included.

#### J-U-B ENGINEERS, INC.

### **ENGINEER'S OPINION OF PROBABLE COST**

7825 Meadowlark Way, Coeur d'Alene, ID 83815 / 208.762.8787 PROJECT: City of Hayden Collection System DATE: 16-Nov-20 Master Plan Update DESCRIPTION: Finucane Drive Gravity Sewer Upsize FINUCANE\_DR\_UPSIZE PROJECT NAME: PROJECT NUMBER: 2.01.2 J-U-B PROJ. NO.: 20-19-042 (001-008)

ITEM NO.	DESCRIPTION	SCHE	HEDULE OF VALUES				
		QTY	UNIT	UNIT PRICE		TOTAL COST	
2.06.7	Mobilization			5.0%	\$	24,0	
2.06.8	Construction Traffic Control			5.0%	\$	24,0	
2.01.1	Pressure Sewer Pipe						
4.00	Gravity Sewer Pipe						
4.05	18" PVC Gravity Sewer Pipe						
	Pipe Cost (excavation, bedding, backfill not included)	3,027	LF	\$ 37	\$	111,	
	Trench Excav./Backfill for 8-12 ft deep Sewer	1,040	LF	\$ 30	\$	31,	
	Trench Excav./Backfill for 12-18 ft deep Sewer	1,837	LF	\$ 40	\$	73,	
	Trench Excav./Backfill for 18-22 ft deep Sewer	149	LF	\$ 56	\$	8,	
4.11	Bedding - 18" - 27"	3,027	LF	\$ 10	\$	30,	
5.00	Surface Repair						
5.03	Asphalt - Trench Patch width per City Standards (Required for 4-16' Depth Sewer) 4	2,577	LF	\$ 44	\$	113	
5.04	Asphalt - 1/2 Street width per City Standards (Required for 16-20' Depth Sewer) 4	449	LF	\$ 70	\$	31	
6.00	Manholes						
6.02	48" Manholes, 10-16 ft.	8	EA	\$ 5,500	\$	44	
6.03	48" Manholes, 16-32 ft.	2	EA	\$ 7,000	\$	14	
7.00	Project Specific Considerations						
8.00	Miscellaneous Other						
8.01	Bypass Pumping		0	5.0%	\$	23	
8.02	Bonding and Insurance		0	1.0%	\$	5	
		ESTIMATED	CONSTRUC	TION SUBTOTAI	L \$	534	
				Contingency <sup>1</sup>		107	
		Planning, Engineerin	ng, & Admin	istrative Costs <sup>2</sup>	\$	128	
		TOTAL PROBAB	LE COST IN	2020 DOLLARS <sup>3</sup>	Ś	769,	

1 Estimated at 20% of construction subtotal.

2 Planning, Engineering, & Administrative costs include: Geotechnical Evaluations, Design, Survey, Construction Management, O&M Manuals, Record Drawings, and Administration. Estimated at 20% of construction subtotal, including contingency

3 Costs are in 2020 dollars and should be inflated appropriately to the mid-point of construction for budgeting purposes. No easement acquisition or legal costs are included.

#### J·U·B ENGINEERS, INC.

### **ENGINEER'S OPINION OF PROBABLE COST**

 PROJECT:
 City of Hayden Collection System
 DATE:
 16-Nov-20

 Master Plan Update
 DATE:
 16-Nov-20

 PROJECT NAME:
 HAYDEN\_AVE\_UPSIZE
 PROJECT NUMBER:
 2.01.3

ITEM NO.	DESCRIPTION	CULL	DULE OF VA	LIFS		
110.		QTY	UNIT	UNIT PRICE		TOTAL COST
2.06.7	Mobilization			5.0%	\$	28
2.06.8	Construction Traffic Control			5.0%	\$	28
2.01.1	Pressure Sewer Pipe					
4.00	Gravity Sewer Pipe					
4.04	15" PVC Gravity Sewer Pipe					
	Pipe Cost (excavation, bedding, backfill not included)	794	LF	\$ 23	\$	18
	Trench Excav./Backfill for 12-18 ft deep Sewer	794	LF	\$ 30	\$	23
4.05	18" PVC Gravity Sewer Pipe					
	Pipe Cost (excavation, bedding, backfill not included)	1,999	LF	\$ 37	\$	73
	Trench Excav./Backfill for 12-18 ft deep Sewer	839	LF	\$ 40	\$	33
	Trench Excav./Backfill for 18-22 ft deep Sewer	863	LF	\$ 56	\$	4
	Trench Excav./Backfill for >22 ft deep Sewer	297	LF	\$ 133	\$	3
4.10	Bedding - 10" - 15"	794	LF	\$ 6	\$	
4.11	Bedding - 18" - 27"	1,999	LF	\$ 10	\$	19
5.00	Surface Repair					
5.03	Asphalt - Trench Patch width per City Standards (Required for 4-16' Depth Sewer) 4	916	LF	\$ 44	\$	4
5.04	Asphalt - 1/2 Street width per City Standards (Required for 16-20' Depth Sewer) 4	1,581	LF	\$ 70	\$	11
5.05	Asphalt - Full Street width per City Standards (Required for 20' - 30' Depth Sewer) 4	297	LF	\$ 125	\$	3
6.00	Manholes					
6.02	48" Manholes, 10-16 ft.	7	EA	\$ 5,500	\$	3
6.03	48" Manholes, 16-32 ft.	6	EA	\$ 7,000	\$	42
7.00	Project Specific Considerations					
8.00	Miscellaneous Other					
8.01	Bypass Pumping		0	5.0%	\$	2
8.02	Bonding and Insurance		0	1.0%	\$	:
		ESTIMATED	CONSTRUC	TION SUBTOTAL	\$	619
				Contingency <sup>1</sup>	\$	124
		Planning, Engineering	g, & Admin	istrative Costs <sup>2</sup>	\$	14
		TOTAL PROBABL	E COST IN	2020 DOLLARS 3	Ś	892

1 Estimated at 20% of construction subtotal.

2 Planning, Engineering, & Administrative costs include: Geotechnical Evaluations, Design, Survey, Construction Management, O&M Manuals, Record Drawings, and Administration. Estimated at 20% of construction subtotal, including contingency

3 Costs are in 2020 dollars and should be inflated appropriately to the mid-point of construction for budgeting purposes. No easement acquisition or legal costs are included.

### **ENGINEER'S OPINION OF PROBABLE COST**

J·U·B ENGINEERS, INC.					
		7825 Meador	wlark Way, (		83815 / 208.762.87
ROJECT:	City of Hayden Collection System			DATE:	16-Nov-20
	Master Plan Update				
ESCRIPTION:	Government Way Gravity Sewer Upsize				
ROJECT NAME:	GOV_WAY_UPSIZE 2.01.4				
ROJECT NUMBER:	2.01.4		-U-B PROJ. NO		20-19-042 (001-008)
ITEM	DESCRIPTION		-O-B PROJ. NO		20-13-042 (001-008)
NO.	DESCRIPTION	SCHE	DULE OF VA	LUES	
		QTY	UNIT	UNIT PRICE	TOTAL COST
2.06.7	Mobilization			5.0%	\$ 12,00
2.06.8	Construction Traffic Control			5.0%	\$ 12,0
2.01.1	Pressure Sewer Pipe				
4.00	Gravity Sewer Pipe				
4.04	15" PVC Gravity Sewer Pipe				
	Pipe Cost (excavation, bedding, backfill not included)	1,811	LF	\$ 23	\$ 41,4
	Trench Excav./Backfill for 8-12 ft deep Sewer	478	LF	\$ 24	\$ 11,4
	Trench Excav./Backfill for 12-18 ft deep Sewer	1,333	LF	\$ 30	\$ 39,9
4.10	Bedding - 10" - 15"	1,811	LF	\$ 6	\$ 10,8
5.00	Surface Repair				
5.03	Asphalt - Trench Patch width per City Standards (Required for 4-16' Depth Sewer) 4	1,811	LF	\$ 44	\$ 79,6
6.00	Manholes				
6.02	48" Manholes, 10-16 ft.	8	EA	\$ 5,500	\$ 44,0
7.00	Project Specific Considerations				
8.00	Miscellaneous Other				
8.01	Bypass Pumping		0	5.0%	\$ 11,0
8.02	Bonding and Insurance		0	1.0%	\$ 2,0
		ESTIMATED	CONSTRUCT	ION SUBTOTAL	\$ 264,00

1 Estimated at 20% of construction subtotal.

2 Planning, Engineering, & Administrative costs include: Geotechnical Evaluations, Design, Survey, Construction Management, 0&M Manuals, Record Drawings, and Administration. Estimated at 20% of construction subtotal, including contingency

53,000

63,000

380,000

Contingency

Planning, Engineering, & Administrative Costs<sup>2</sup>

TOTAL PROBABLE COST IN 2020 DOLLARS<sup>3</sup> \$

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3 Costs are in 2020 dollars and should be inflated appropriately to the mid-point of construction for budgeting purposes. No easement acquisition or legal costs are included.

#### J·U·B ENGINEERS, INC.

### ENGINEER'S OPINION OF PROBABLE COST

 PROJECT:
 City of Hayden Collection System
 DATE:
 16-Nov-20

 Master Plan Update
 DATE:
 16-Nov-20

 DESCRIPTION:
 Hayden Avenue Phase I - Gravity Sewer from Carrington Meadows to Atlas Road
 PROJECT NAME:
 HAYDEN\_AVE\_GRAV1

 PROJECT NUMBER:
 2.07.1
 JULE B PROJ. NO.:
 20-19-042 (001-008)

ITEM	DESCRIPTION					
NO.			DULE OF VA		1	
		QTY	UNIT	UNIT PRICE		TOTAL COST
2.06.7	Mobilization			5.0%	\$	1
2.06.8	Construction Traffic Control			5.0%	\$	1
2.01.1	Pressure Sewer Pipe					
4.00	Gravity Sewer Pipe					
4.02	10" PVC Gravity Sewer Pipe					
	Pipe Cost (excavation, bedding, backfill not included)	1,658	LF	\$ 11	\$	1
	Trench Excav./Backfill for 12-18 ft deep Sewer	1,300	LF	\$ 18	\$	2
	Trench Excav./Backfill for 18-22 ft deep Sewer	358	LF	\$ 33	\$	1
4.03	12" PVC Gravity Sewer Pipe					
	Pipe Cost (excavation, bedding, backfill not included)	59	LF	\$ 15	\$	
	Trench Excav./Backfill for 18-22 ft deep Sewer	59	LF	\$ 36	\$	
4.10	Bedding - 10" - 15"	1,717	LF	\$ 6	\$	1
5.00	Surface Repair					
5.03	Asphalt - Trench Patch width per City Standards (Required for 4-16' Depth Sewer) 4	325	LF	\$ 44	\$	1
5.04	Asphalt - 1/2 Street width per City Standards (Required for 16-20' Depth Sewer) 4	1,333	LF	\$ 70	\$	9
5.05	Asphalt - Full Street width per City Standards (Required for 20' - 30' Depth Sewer) 4	59	LF	\$ 125	\$	
6.00	Manholes					
6.02	48" Manholes, 10-16 ft.	3	EA	\$ 5,500	\$	1
6.03	48" Manholes, 16-32 ft.	3	EA	\$ 7,000	\$	2
7.00	Project Specific Considerations					
8.00	Miscellaneous Other					
8.02	Bonding and Insurance		0	1.0%	\$	
		ESTIMATED	CONSTRUC	TION SUBTOTAL	\$	24
				Contingency <sup>1</sup>	\$	4
		Planning, Engineerin	g, & Admin	istrative Costs <sup>2</sup>	\$	5
		TOTAL PROBAB	E COST IN	2020 0011 405 3	Ś	34

1 Estimated at 20% of construction subtotal.

2 Planning, Engineering, & Administrative costs include: Geotechnical Evaluations, Design, Survey, Construction Management, O&M Manuals, Record Drawings, and Administration. Estimated at 20% of construction subtotal, including contingency

3 Costs are in 2020 dollars and should be inflated appropriately to the mid-point of construction for budgeting purposes. No easement acquisition or legal costs are included.



#### ENGINEER'S OPINION OF PROBABLE COST

		7825 Mea	dowlark Way	, Coeur d'Alene, II	0 83815 / 208.762.8787
PROJECT:	City of Hayden Collection System			DATE:	16-Nov-20
	Master Plan Update				
DESCRIPTION:	H-7 (Carrington Meadows) Lift Station Upsize				
PROJECT NAME:	H-7 LS				
PROJECT NUMBER:	2.07.2				
		L	-U-B PROJ. NO	.:	20-19-042 (001-008)
ITEM	DESCRIPTION				
NO.	DESCRIPTION		so	HEDULE OF VALU	-
		QTY	UNIT	UNIT PRICE	TOTAL COST
ITEM No.	Description	Est. Quant.	Unit	Unit Price	Total Price
2.06.7	Mobilization			5.0%	\$ 6,000
2.06.8	Construction Traffic Control			0.0%	\$-
2.01.1	Duplex Submersible Lift Station Pump Replacement for Capacity Increase				
3.06	Equipment				
	Pumps - 2 total	2	EA	\$50,000	\$100,000
	Installation and Mark-up			25%	\$25,000
3.07	Overflow for upsize (approx 7,500 gallons)	1	LS	\$25,000	\$25,000
3.08	Additional Elements (estimated % of above)				
	Generator - 100 KW	1	EA	\$100,000	\$100,000
	Larger Service (Approx. 200 amp)	1	EA	\$10,000	\$10,000
	ATS	1	EA	\$25,000	\$25,000
	Multismart Control Panel or keep existing multismary with remote VFDs	1	EA	\$50,000	\$50,000

0,000 1 EA \$10,000 \$10,000 Misc. Electrical and Instrumentation ESTIMATED CONSTRUCTION SUBTOTAL \$ 351,000 Contingency <sup>1</sup> Planning, Engineering, & Administrative Costs <sup>2</sup> \$ 70,000 Ś 84,000 TOTAL PROBABLE COST IN 2020 DOLLARS<sup>3</sup> 505,000 Ś

1 Estimated at 20% of construction subtotal.

2 Planning, Engineering, & Administrative costs include: Geotechnical Evaluations, Design, Survey, Construction Management, O&M Manuals, Record Drawings, and Administration. Estimated at 20% of construction

3 costs are 1020 dollars and should be inflated appropriately to the mid-point of construction for budgeting purposes. No easement acquisition or legal costs are included.

(JUB)	ENGINEER'S OPINION OF PROBAI	BLE COST				
J·U·B ENGINEERS, INC.		7025 Macdau			N 0 7 0	
PROJECT:	City of Hayden Collection System	7825 Meadow	lark way, G	Loeur d'Alene, IL DATE:		815 / 208.762.8787 16-Nov-20
PROJECT.	Master Plan Update			DATE	•	10-1100-20
DESCRIPTION:	H-1 Lift Station Pump Replacement for Future Capacity					
PROJECT NAME:	HONEYSUCKLE_UPSIZE_P2					
PROJECT NUMBER:	3.01.5					
		J	-U-B PROJ. N	0.:	20-	-19-042 (001-008)
ITEM	DESCRIPTION					
NO.	DESCRIPTION		DULE OF V			
		QTY	UNIT	UNIT PRICE		TOTAL COST
2.06.7	Mobilization			5.0%	\$	13,000
2.06.8	Construction Traffic Control			5.0%	\$	13,000
2.01.1	Pressure Sewer Pipe					
4.00	Gravity Sewer Pipe					
4.03	12" PVC Gravity Sewer Pipe					
	Pipe Cost (excavation, bedding, backfill not included)	998	LF	\$ 15	\$	15,374
	Trench Excav./Backfill for 8-12 ft deep Sewer	998	LF	\$ 15	\$	14,974
4.04	15" PVC Gravity Sewer Pipe					
	Pipe Cost (excavation, bedding, backfill not included)	1,333	LF	\$ 23	\$	30,518
	Trench Excav./Backfill for 4-8 ft deep Sewer	699	LF	\$ 20	\$	13,972
	Trench Excav./Backfill for 8-12 ft deep Sewer	634	LF	\$ 24	\$	15,217
4.10	Bedding - 10" - 15"	2,331	LF	\$ 6	\$	13,986
5.00	Surface Repair					
5.03	Asphalt - Trench Patch width per City Standards (Required for 4-16' Depth Sewer) 4	2,331	LF	\$ 44	\$	102,562
6.00	Manholes					
6.01	48" Manholes, 4-10 ft.	5	EA	\$ 5,000	\$	25,000
6.02	48" Manholes, 10-16 ft.	3	EA	\$ 5,500	\$	16,500
7.00	Project Specific Considerations					
8.00	Miscellaneous Other					
8.01	Bypass Pumping		0	5.0%	\$	12,000
8.02	Bonding and Insurance		0	1.0%	\$	2,000
		ESTIMATED	CONSTRUC	TION SUBTOTAL	\$	288,000
				Contingency <sup>1</sup>	\$	58,000
		Planning, Engineering	g, & Admin	istrative Costs <sup>2</sup>	\$	69,000
		TOTAL PROBABL	E COST IN	2020 DOLLARS <sup>3</sup>	\$	415,000

1 Estimated at 20% of construction subtotal.

2 Planning, Engineering, & Administrative costs include: Geotechnical Evaluations, Design, Survey, Construction Management, O&M Manuals, Record Drawings, and Administration. Estimated at 20% of construction subtotal, including contingency

3 Costs are in 2020 dollars and should be inflated appropriately to the mid-point of construction for budgeting purposes. No easement acquisition or legal costs are included.

4 Asphalt Surface Repair varies with respect to the City Typical Roadway Section of 4" Asphalt on 4" of 3/4-inch Crushed Aggregate, on 12" of Subgrade

\\cdafiles\public\Projects\JUB\20-19-042 Hayden 2019 Collection Master Plan Update\Model\_Calcs\F100-5\_Spreadsheets\Hayden Cost Opinions



### ENGINEER'S OPINION OF PROBABLE COST

Master Plan Update         DESCRIPTION:       H-3 Lift Station Pump Replacement for Future Capacity         PROJECT NAME:       H-1 Lift Station Pump Upsize         PROJECT NUMBER:       3.0.6         ITEM NO.       SCHEDULE OF VALUES         OITEM NO.       Description       Est Quant.       Unit Price       Total Price         Z.06.7       Mobilization       Description       Est Quant.       Unit Price       Total Price         J.0.6       Construction Traffic Control       Est Quant.       Unit Price       Total Price         J.0.6       Construction Traffic Control       I       5.0% \$ 12,000         J.0.6       Equipment       Solution Fraffic Control       Solution Fraffic Control         J.0.6       Equipment       Solution Fraffic Control       Solution Fraffic Control         J.0.8       Additional Elements (estimated % of above)       Electrical and Instrumentation       Soluti       Soluti	5-5-5 ENGINEERS, INC.		792E Moo	dowlark Wa	v Coour d'Alono II	0201	E / 200 762 0707
DESCRIPTION:       H-1 Lift Station Pump Replacement for Future Capacity         PROJECT NAME:       H-1 Lift Station Pump Upsize         PROJECT NUMBER:       3.01.6         I-U-B PROJ. NO:: 20-19-042 (001-008)         ITEM NO.       SCHEDULE OF VALUES         OTTAL COST         ITEM NO.       DESCRIPTION         ITEM NO.       DESCRIPTION         Construction Traffic Control       Total Price         2.06.7       Mobilization       Est. Quant.       Unit       Unit Price       Total Price         2.06.8       Construction Traffic Control       5.0%       \$ 12,000       0.0%       \$         3.06       Equipment       9       0.0%       \$       25%       \$48,800         3.08       Additional Elements (estimated % of above)       Electrical and Instrumentation       3       EA       \$65,000       \$195,000       \$48,800         3.08       Additional Elements (estimated % of above)       Electrical and Instrumentation       35.0%       \$ \$48,800         Contingency <sup>1</sup> \$ \$ \$6,000       \$ \$2.0%       \$85,000       \$ \$48,000       \$ \$ \$48,000       \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	PROJECT:	City of Hayden Collection System	7823 Wea	uowiai k wa			
PROJECT NAME:       H-1 Lift Station Pump Upsize         PROJECT NUMBER:       3.01.6         SCHEDULE OF VALUES         OPECNIPTION       Control COTAL COST         ITEM No.       Description       Est. Quant.       Unit VINIT PRCE       TOTAL COST         ITEM No.       Construction Traffic Control       Total Price       Total Price         2.06.7       Mobilization       Construction Traffic Control       Unit       Unit Price       Total Price         2.06.8       Construction Traffic Control       Triplex Submersible Lift Station Pump Replacement for Capacity Increase       3       EA       \$65,000       \$12,000         3.06       Equipment       Pumps - 3 total Installation and Mark-up       3       EA       \$65,000       \$195,000         3.08       Additional Elements (estimated % of above)       Electrical and Instrumentation       35.0%       \$85,000       \$195,000         2.01       Electrical and Instrumentation       Station       Station       \$5.0%       \$195,000       \$195,000       \$25%       \$48,800       \$25,000       \$195,000       \$25%       \$48,800       \$25,0%       \$35,0%       \$85,000       \$35,0%       \$85,000       \$35,0%       \$85,000		Master Plan Update					
PROJECT NUMBER:       3.01.6         ITEM NO.       DESCRIPTION       20-19-042 (001-008)         ITEM NO.       DESCRIPTION       SCHEDULE OF VALUES         ITEM NO.       Description       Est. Quant.       Unit       Unit       Unit Price       TOTAL COST         ITEM NO.       Description       Est. Quant.       Unit       Unit       Unit Price       Total Price         2.06.7       Mobilization       Construction Traffic Control       5.0%       \$       12,000         2.06.8       Construction Traffic Control       5.0%       \$       12,000         3.06       Equipment       0.0%       \$       -         3.06       Equipment       2%       2%       \$48,800         3.08       Additional Elements (estimated % of above)       3       EA       \$65,000       \$195,000         Electrical and Instrumentation       35.0%       \$88,000       25%       \$48,800       \$35.0%       \$88,000         3.08       Additional Elements (estimated % of above)       Electrical and Instrumentation       \$       \$31,000       \$68,000       \$88,000       \$88,000       \$88,000       \$88,000       \$88,000       \$88,000       \$88,000       \$88,000       \$88,000       \$88,000       \$88,00	DESCRIPTION:	H-1 Lift Station Pump Replacement for Future Capacity					
I-U-B ROLINO:       20-19-042 (001-008)         ITEM NO.       DESCRIPTION       COTV       UNIT       VIL-B OF VALUES         ITEM NO.       DESCRIPTION       CITAL COST         QTV       UNIT       UINIT       POIL NO:       TOTAL COST         QTO       UNIT       UINIT       POIL NO:       TOTAL COST         QTO       Mobilization       Description       Est. Quant.       Unit       Unit       Total Price         2.06.7       Mobilization       Construction Traffic Control       5.0%       \$       12,000       0.0%       \$       -	PROJECT NAME:	H-1 Lift Station Pump Upsize					
ITEM NO.       DESCRIPTION       SCHEDULE OF VALUES         QTY       UNIT       UNIT PRICE       TOTAL COST         QTM       UNIT       UNIT PRICE       TOTAL COST         ITEM No.       Description       Est. Quant.       Unit       Unit Price       Total Price         2.06.7       Mobilization       S.0%       \$ 12,000       0.0%       \$ 12,000         2.06.8       Construction Traffic Control       S.0%       \$ 12,000       0.0%       \$ -         3.06       Equipment       Pumps - 3 total       0.0%       \$ -       -         9.09       - 3 total       Installation and Mark-up       3       EA       \$65,000       \$195,000         3.08       Additional Elements (estimated % of above)       Electrical and Instrumentation       35.0%       \$88,000         ENTIMATED CONSTRUCTION SUBTOTAL         Contingency <sup>1</sup> \$ 341,000         Contingency <sup>1</sup> \$ 68,000         Planning, Engineering, & Administrative Costs <sup>2</sup> \$ 82,000	PROJECT NUMBER:	3.01.6					
NO.       DESCRIPTION       SCHEDULE OF VALUES         QTY       UNIT       UNIT PRICE       TOTAL COST         OTTEM No.       Description       Est. Quant.       Unit       Unit Price       Total Price         2.06.7       Mobilization       Construction Traffic Control       5.0%       \$       12,000         2.06.8       Construction Traffic Control       0.0%       \$       0.0%       \$       12,000         3.06       Equipment Pumps - 3 total Installation and Mark-up       Pumps - 3 total Installation and Mark-up       3       EA       \$\$65,000 2.05%       \$\$195,000 2.05%         3.08       Additional Elements (estimated % of above) Electrical and Instrumentation       \$\$155,000 				I-U-B PROJ. NO	).:	20-19	-042 (001-008)
ITEM No.       Description       Est. Quant.       Unit       Unit Price       Total Price         2.06.7       Mobilization       Construction Traffic Control       5.0%       \$ 12,000         2.06.8       Construction Traffic Control       0.0%       \$ -         3.06       Equipment       9       0.0%       \$ -         9       Pumps - 3 total       1nstallation and Mark-up       3       EA       \$65,000       \$195,000         3.08       Additional Elements (estimated % of above)       Electrical and Instrumentation       35.0%       \$85,000       \$85,000         ESTIMATED CONSTRUCTION SUBTORAL         Contingency <sup>1</sup> \$ 68,000         Planning, Engineering, & Administrative Costs <sup>2</sup> \$ 82,000		DESCRIPTION		SCHEDULE OF VALU			
2.06.7       Mobilization         2.06.8       Construction Traffic Control         2.01.1       Triplex Submersible Lift Station Pump Replacement for Capacity Increase         3.06       Equipment         Pumps - 3 total       3         Installation and Mark-up       3         3.08       Additional Elements (estimated % of above)         Electrical and Instrumentation       35.0%         \$85,000       \$85,000         Planning, Engineering, & Administrative Costs 2         9       \$341,000         \$3,08       Additional Elements (estimated % of above)         Electrical and Instrumentation       35.0%			QTY	UNIT	UNIT PRICE		TOTAL COST
2.06.8       Construction Traffic Control       Image: Submersible Lift Station Pump Replacement for Capacity Increase       Image: Submersible Lift Station Pump Replacement for Capacity Increase       Image: Submersible Lift Station Pump Replacement for Capacity Increase       Image: Submersible Lift Station Pump Replacement for Capacity Increase       Image: Submersible Lift Station Pump Replacement for Capacity Increase       Image: Submersible Lift Station Pump Replacement for Capacity Increase       Image: Submersible Lift Station Pump Replacement for Capacity Increase       Image: Submersible Lift Station Pump Replacement for Capacity Increase       Image: Submersible Lift Station Pump Replacement for Capacity Increase       Image: Submersible Lift Station Pump Replacement for Capacity Increase       Image: Submersible Lift Station Pump Replacement for Capacity Increase       Image: Submersible Lift Station Pump Replacement for Capacity Increase       Image: Submersible Lift Station Pump Replacement for Capacity Increase       Image: Submersible Lift Station Pump Replacement for Capacity Increase       Image: Submersible Lift Station Pump Replacement for Capacity Increase       Image: Submersible Lift Station Pump Replacement for Capacity Increase       Image: Submersible Lift Station Pump Replacement for Capacity Increase       Image: Submersible Lift Station Pump Replacement for Capacity Increase       Image: Submersible Lift Station Pump Replacement for Capacity Increase       Image: Submersible Lift Station Pump Replacement for Capacity Increase       Image: Submersible Lift Station Pump Replacement for Capacity Increase       Image: Submersible Lift Station Pump Replacement for Capacity Increase       Image: Submersit Station Pump Replacement for Capacity In	ITEM No.	Description	Est. Quant.	Unit	Unit Price		Total Price
2.01.1       Triplex Submersible Lift Station Pump Replacement for Capacity Increase       3       A<	2.06.7	Mobilization			5.0%	\$	12,000
3.06       Equipment Pumps - 3 total Installation and Mark-up       3       EA       \$65,000 \$195,000 \$48,800         3.08       Additional Elements (estimated % of above) Electrical and Instrumentation       3       EA       \$65,000 \$48,800         3.08       Electrical and Instrumentation       35.0%       \$85,000 \$885,000       \$85,000 \$885,000         ESTIMATED CONSTRUCTION SUBTORI Contingency 1         Contingency 1         \$       341,000 \$882,000	2.06.8	Construction Traffic Control			0.0%	\$	-
Pumps - 3 total Installation and Mark-up       3       EA       \$65,000 25%       \$195,000 \$48,800         3.08       Additional Elements (estimated % of above) Electrical and Instrumentation       35.0%       \$85,000       \$85,000         ESTIMATED CONSTRUCTION SUBTORAL Contingency <sup>1</sup> S       \$341,000         Contingency <sup>1</sup> S       \$68,000         Planning, Engineering, & Administrative Costs <sup>2</sup>	2.01.1	Triplex Submersible Lift Station Pump Replacement for Capacity Increase					
3.08     Additional Elements (estimated % of above)     Estimated % of above)     25%     \$48,800       Electrical and Instrumentation     35.0%     \$85,000     \$85,000       Contingency <sup>1</sup> \$     341,000       Planning, Engineering, & Administrative Costs <sup>2</sup> \$	3.06						
3.08       Additional Elements (estimated % of above)       35.0%       \$85,000         Electrical and Instrumentation       35.0%       \$85,000         Contingency <sup>1</sup> \$68,000       \$68,000         Planning, Engineering, & Administrative Costs <sup>2</sup> \$68,000			3	EA			
Electrical and Instrumentation       35.0%       \$85,000         ESTIMATED CONSTRUCTION SUBTOTAL       \$ 341,000         Contingency <sup>1</sup> 68,000         Planning, Engineering, & Administrative Costs <sup>2</sup> \$ 82,000		Installation and Mark-up			25%		\$48,800
ESTIMATED CONSTRUCTION SUBTOTAL Contingency <sup>1</sup> Planning, Engineering, & Administrative Costs <sup>2</sup> 82,000	3.08	Additional Elements (estimated % of above)					
Contingency <sup>1</sup> Planning, Engineering, & Administrative Costs <sup>2</sup> <b>\$ 68,000</b> <b>\$ 82,000</b>		Electrical and Instrumentation			35.0%		\$85,000
Contingency       1       \$       68,000         Planning, Engineering, & Administrative Costs       2       \$       82,000			ESTIMATE	D CONSTRU	CTION SUBTOTAL	\$	341,000
Planning, Engineering, & Administrative Costs <sup>2</sup> \$ 82,000					Contingency <sup>1</sup>	\$	
			Planning, Enginee	ring, & Adm	inistrative Costs <sup>2</sup>	\$	82,000
			TOTAL PROBA	ABLE COST II	N 2020 DOLLARS	\$	491,000

1 Estimated at 20% of construction subtotal.

2 Planning, Engineering, & Administrative costs include: Geotechnical Evaluations, Design, Survey, Construction Management, O&M Manuals, Record Drawings, and Administration. Estimated at 20% of construction subtotal, including contingency

3 Costs are in 2020 dollars and should be inflated appropriately to the mid-point of construction for budgeting purposes. No easement acquisition or legal costs are included.

#### **ENGINEER'S OPINION OF PROBABLE COST**

J·U·B ENGINEERS, INC.			
		7825 Meadowlark Way, Coeur d'Alene	e, ID 83815 / 208.762.8787
PROJECT:	City of Hayden Collection System	DA	TE: 16-Nov-20
	Master Plan Update		
DESCRIPTION:	Ramsey Road Phase IV - Lancaster Ave. to N. Ramsey Lift Station Force Main		
PROJECT NAME:	N RAMSEY FORCE MAIN		
PROJECT NUMBER:	3.06.9		
		J-U-B PROJ. NO.:	20-19-042 (001-008)
ITEM	DESCRIPTION		

NO.	DESCRIPTION	SCHE	DULE OF VA	LUES	
		QTY	UNIT	UNIT PRICE	TOTAL COST
2.06.7	Mobilization			5.0%	\$ 11,000
2.06.8	Construction Traffic Control			5.0%	\$ 11,000
2.01.1	Pressure Sewer Pipe				
3.04	10" Pressure Sewer Pipe				
	Pipe, fittings, valves, air vac assemblies (excavation, bedding, backfill not included)	3,658	LF	\$ 37	\$ 134,007
3.12	Bedding - 10" - 14"	3,658	LF	\$ 6	\$ 21,950
4.00	Gravity Sewer Pipe				
5.00	Surface Repair				
5.01	Natural Ground	3,658	LF	\$ 15	\$ 54,876
6.00	Manholes				
7.00	Project Specific Considerations				
8.00	Miscellaneous Other				
8.01	Bypass Pumping		0	5.0%	\$ 11,000
8.02	Bonding and Insurance		0	1.0%	\$ 2,000
		ESTIMATED	CONSTRUC	TION SUBTOTAL	\$ 246,000
				Contingency <sup>1</sup>	\$ 49,000
		Planning, Engineerin	ng, & Admin	istrative Costs <sup>2</sup>	\$ 59,000
		TOTAL PROBAB	LE COST IN 2	2020 DOLLARS <sup>3</sup>	\$ 354,000

1 Estimated at 20% of construction subtotal.

2 Planning, Engineering, & Administrative costs include: Geotechnical Evaluations, Design, Survey, Construction Management, O&M Manuals, Record Drawings, and Administration. Estimated at 20% of construction subtotal, including contingency

3 Costs are in 2020 dollars and should be inflated appropriately to the mid-point of construction for budgeting purposes. No easement acquisition or legal costs are included.



#### J-U-B ENGINEERS, INC.

### **ENGINEER'S OPINION OF PROBABLE COST**

7825 Meadowlark Way, Coeur d'Alene, ID 83815 / 208.762.8787

ITEM NO.	DESCRIPTION	SCHE	DULE OF VA	LIES			
	-	QTY	UNIT	UNIT PRICE	1	TOTAL COST	
2.06.7	Mobilization			5.0%	\$	12	
2.06.8	Construction Traffic Control			5.0%	\$	1	
2.01.1	Pressure Sewer Pipe						
4.00	Gravity Sewer Pipe						
4.01	8" PVC Gravity Sewer Pipe						
	Pipe Cost (excavation, bedding, backfill not included)	864	LF	\$ 7	\$		
	Trench Excav./Backfill for 8-12 ft deep Sewer	864	LF	\$ 12	\$	1	
4.02	10" PVC Gravity Sewer Pipe						
	Pipe Cost (excavation, bedding, backfill not included)	681	LF	\$ 11	\$		
	Trench Excav./Backfill for 18-22 ft deep Sewer	330	LF	\$ 33	\$	1	
	Trench Excav./Backfill for >22 ft deep Sewer	351	LF	\$ 111	\$	3	
4.09	Bedding - 8"	864	LF	\$ 3	\$		
4.10	Bedding - 10" - 15"	681	LF	\$ 6	\$		
5.00	Surface Repair						
5.03	Asphalt - Trench Patch width per City Standards (Required for 4-16' Depth Sewer) 4	864	LF	\$ 44	\$	3	
5.05	Asphalt - Full Street width per City Standards (Required for 20' - 30' Depth Sewer) 4	681	LF	\$ 125	\$	8	
6.00	Manholes						
6.01	48" Manholes, 4-10 ft.	2	EA	\$ 5,000	\$	1	
6.02	48" Manholes, 10-16 ft.	1	EA	\$ 5,500	\$		
6.03	48" Manholes, 16-32 ft.	2	EA	\$ 7,000	\$	1	
7.00	Project Specific Considerations						
8.00	Miscellaneous Other						
8.02	Bonding and Insurance		0	1.0%	\$		
	ESTIMATED CONSTRUCTION SUBTOTAL						
Contingency Planning, Engineering, & Administrative Costs						5	
						6	
		TOTAL PROBABI	LE COST IN	2020 DOLLARS <sup>3</sup>	Ś	37	

1 Estimated at 20% of construction subtotal.

2 Planning, Engineering, & Administrative costs include: Geotechnical Evaluations, Design, Survey, Construction Management, O&M Manuals, Record Drawings, and Administration. Estimated at 20% of construction subtotal, including contingency

3 Costs are in 2020 dollars and should be inflated appropriately to the mid-point of construction for budgeting purposes. No easement acquisition or legal costs are included.

### **ENGINEER'S OPINION OF PROBABLE COST**

J·U·B ENGINEERS, INC.		7825 Meado	wlark Way	Coeur d'Alene II	0 83815 / 208.762.878	
PROJECT:	City of Hayden Collection System	7025 Wedde	wiark way,	DATE:		
	Master Plan Update					
DESCRIPTION:	Dakota Elimination Gravity Sewer					
PROJECT NAME:	DAKOTA_ELIM_GRAV					
PROJECT NUMBER:	3.07.4					
			J-U-B PROJ. NO	l.:	20-19-042 (001-008)	
ITEM	DESCRIPTION					
NO.	DESCRIPTION		SCHEDULE OF VALUES			
		QTY	UNIT	UNIT PRICE	TOTAL COST	
2.06.7	Mobilization			5.0%	\$ 4,00	
2.06.8	Construction Traffic Control			5.0%	\$ 4,00	
2.01.1	Pressure Sewer Pipe					
4.00	Gravity Sewer Pipe					
4.02	10" PVC Gravity Sewer Pipe					
	Pipe Cost (excavation, bedding, backfill not included)	1,325	LF	\$ 11	\$ 14,17	
	Trench Excav./Backfill for 8-12 ft deep Sewer	325	LF	\$ 14	\$ 4,55	
	Trench Excav./Backfill for 12-18 ft deep Sewer	1,000	LF	\$ 18	\$ 17,50	
4.10	Bedding - 10" - 15"	1,325	LF	\$6	\$ 7,95	
5.00	Surface Repair					
5.01	Natural Ground	1,325	LF	\$ 15	\$ 19,87	
6.00	Manholes					
6.02	48" Manholes, 10-16 ft.	3	EA	\$ 5,500	\$ 16,50	
7.00	Project Specific Considerations					
8.00	Miscellaneous Other					
8.01	Bypass Pumping		0	5.0%	\$ 4,00	
8.02	Bonding and Insurance		0	1.0%	\$ 1,00	
	ESTIMATED CONSTRUCTION SUBTOTAL					
Contingency						
		Planning, Engineeri	ng, & Admin	istrative Costs <sup>2</sup>	\$ 19,00 \$ 23,00	

1 Estimated at 20% of construction subtotal.

2 Planning, Engineering, & Administrative costs include: Geotechnical Evaluations, Design, Survey, Construction Management, 0&M Manuals, Record Drawings, and Administration. Estimated at 20% of construction subtotal, including contingency 3 Costs are in 2020 dollars and should be inflated appropriately to the mid-point of construction for budgeting purposes. No easement acquisition or legal costs are included.

TOTAL PROBABLE COST IN 2020 DOLLARS<sup>3</sup> \$

136,000