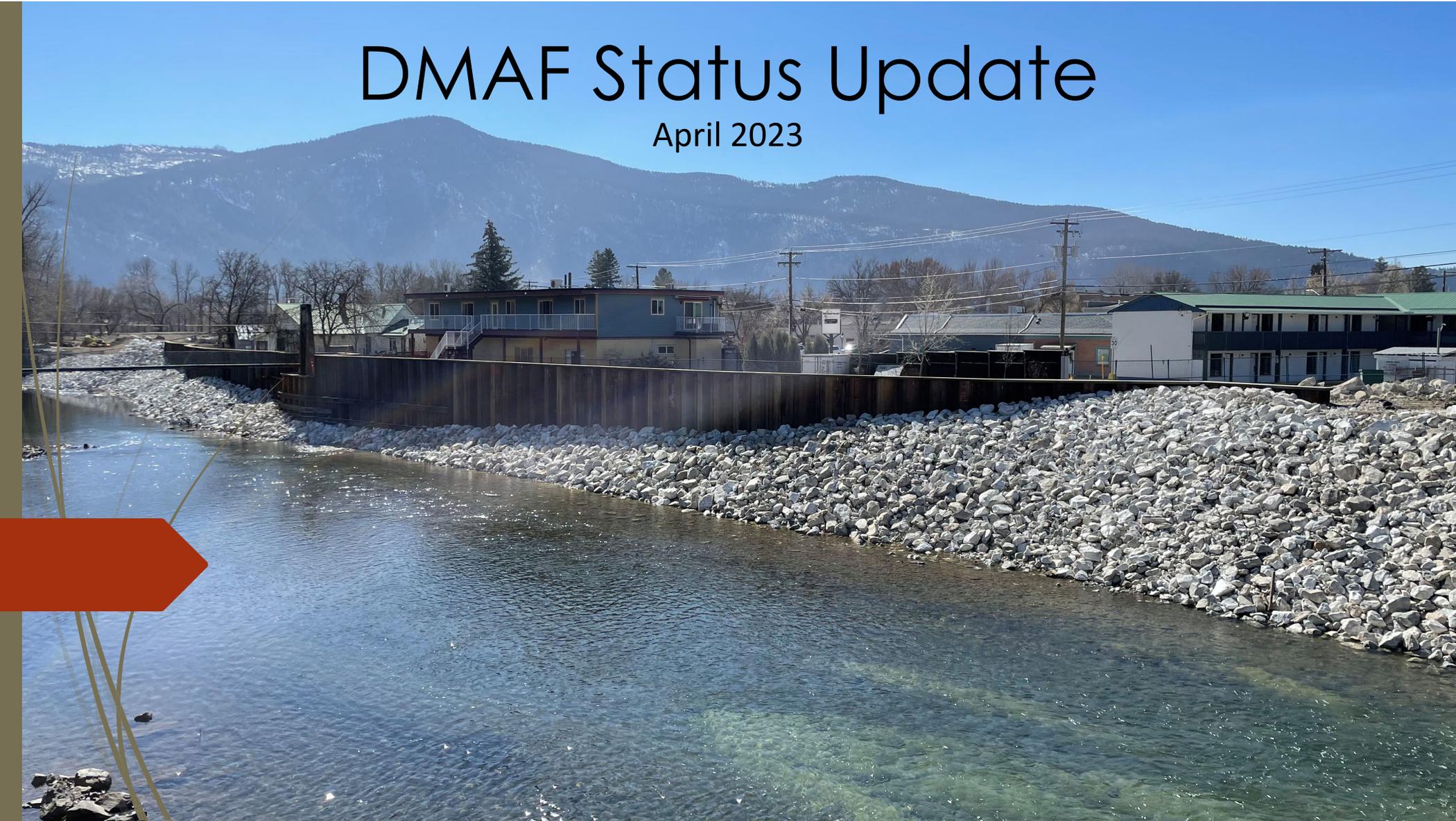


# DMAF Status Update

April 2023



# Outline

1. Recent Highlights
2. WP1 Construction Update
3. WP2 Construction Update
4. Costs to Date
5. Current Workplan (to April 2023)
6. Remaining Work (beyond April)
7. 2023 DMAF Capital Plan

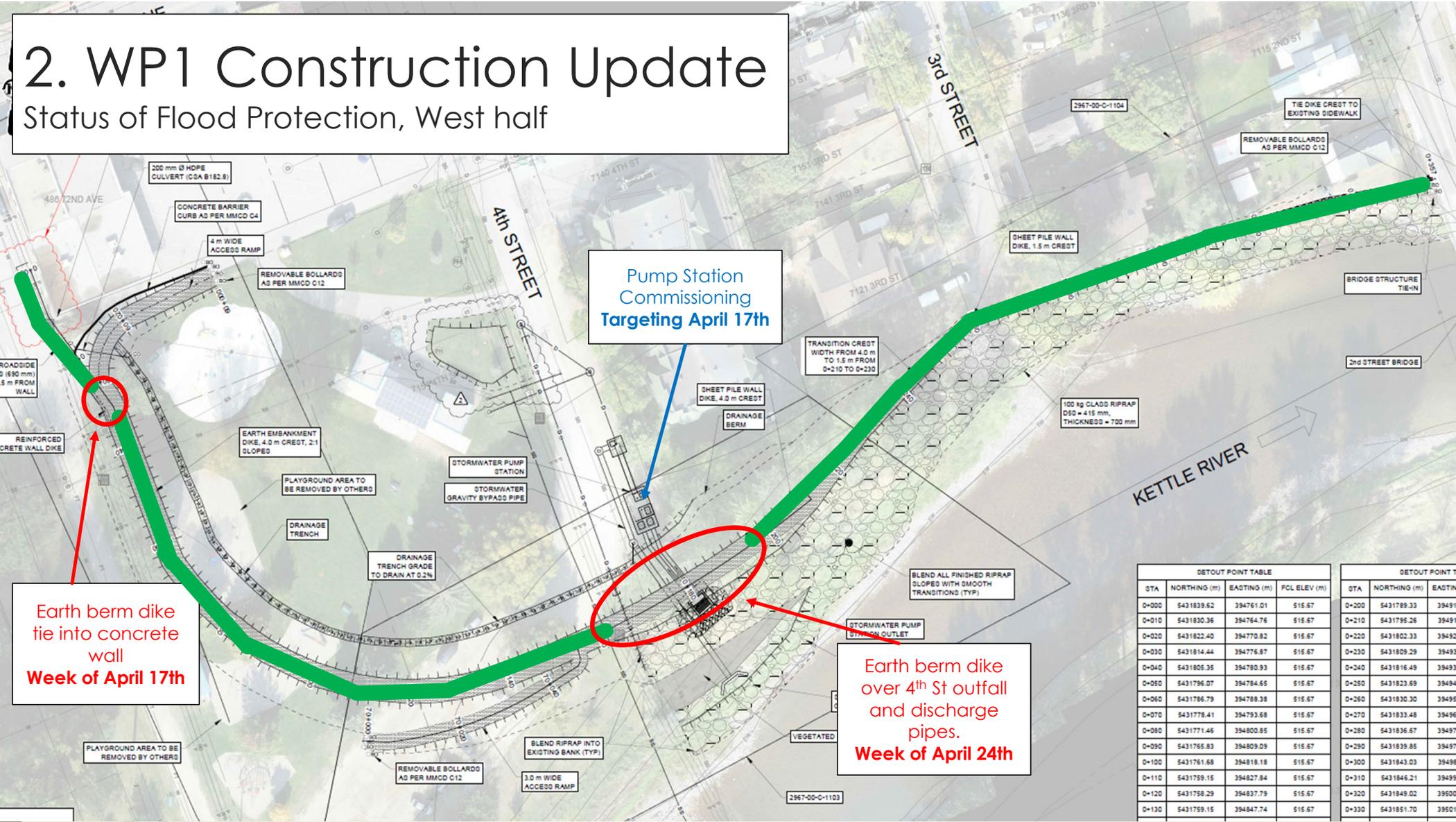


## 1. Recent Highlights

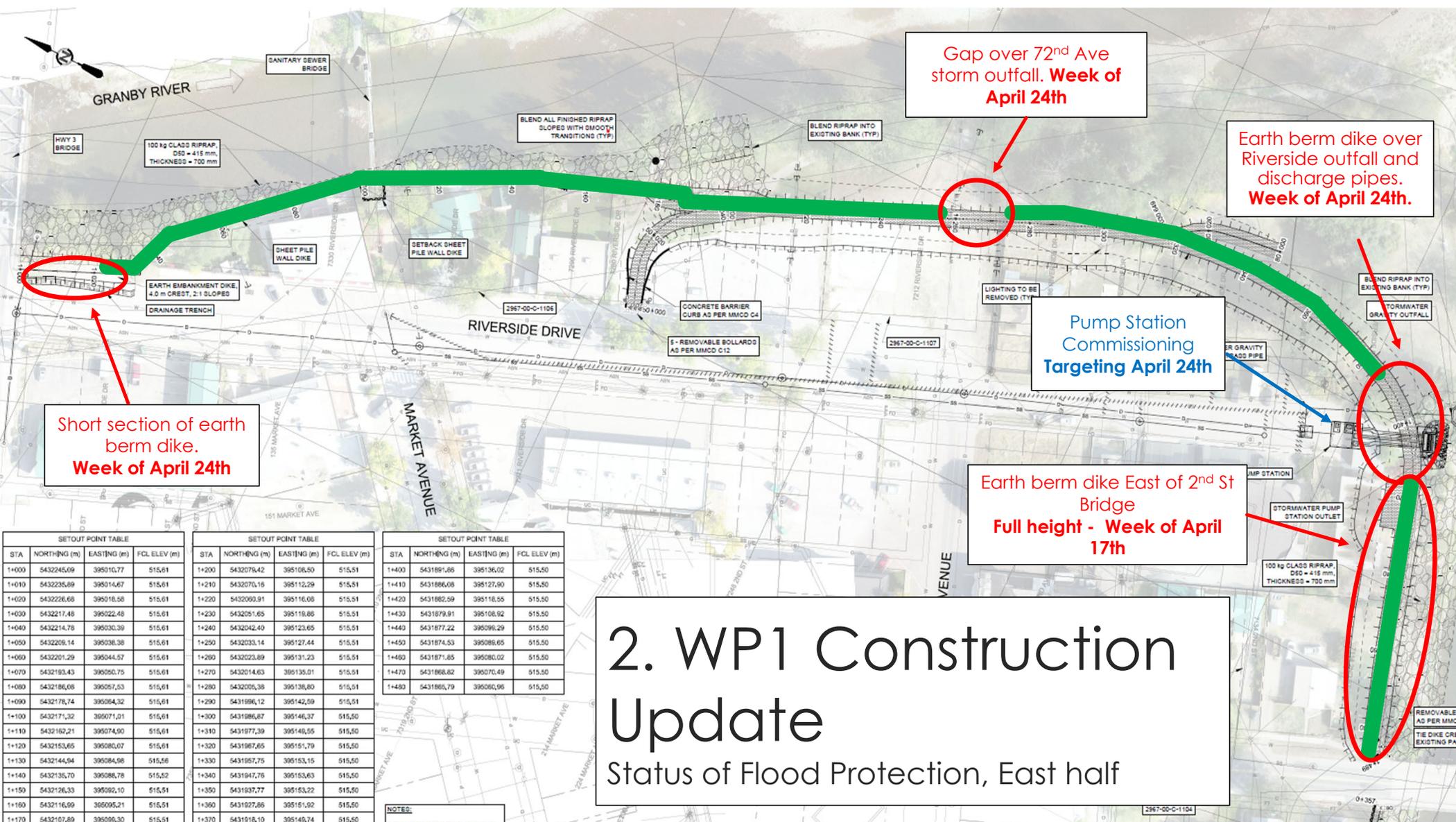
- A. Removed temp access road in Granby River and completed riprap
- B. Backfilled behind Granby River sheet piles
- C. Built up dike and placed riprap along the Kettle East of 2<sup>nd</sup> St bridge
- D. Completed all gravity piping and manholes at both pump stations
- E. Built elevated pads for electrical equipment at both pump stations
- F. Filled last gap in North Ruckle dike
- G. Finished capping sheet piles along Interfor dike

# 2. WP1 Construction Update

Status of Flood Protection, West half



GETOUT POINT TABLE				GETOUT POINT TABLE		
STA	NORTHING (m)	EASTING (m)	FCL ELEV (m)	STA	NORTHING (m)	EASTING (m)
0+000	5431839.62	394761.01	515.67	0+200	5431789.33	39491
0+010	5431830.36	394764.76	515.67	0+210	5431795.26	39491
0+020	5431822.40	394770.82	515.67	0+220	5431802.33	39492
0+030	5431814.44	394776.87	515.67	0+230	5431809.29	39493
0+040	5431805.35	394780.93	515.67	0+240	5431816.49	39493
0+050	5431796.07	394784.65	515.67	0+250	5431823.69	39494
0+060	5431786.79	394788.38	515.67	0+260	5431830.30	39495
0+070	5431778.41	394793.68	515.67	0+270	5431833.48	39496
0+080	5431771.46	394800.85	515.67	0+280	5431836.67	39497
0+090	5431765.83	394809.09	515.67	0+290	5431839.85	39497
0+100	5431761.68	394818.18	515.67	0+300	5431843.03	39498
0+110	5431759.15	394827.84	515.67	0+310	5431846.21	39499
0+120	5431758.29	394837.79	515.67	0+320	5431849.02	39500
0+130	5431759.15	394847.74	515.67	0+330	5431851.70	39501



Gap over 72<sup>nd</sup> Ave storm outfall. **Week of April 24th**

Earth berm dike over Riverside outfall and discharge pipes. **Week of April 24th.**

Short section of earth berm dike. **Week of April 24th**

Pump Station Commissioning **Targeting April 24th**

Earth berm dike East of 2<sup>nd</sup> St Bridge **Full height - Week of April 17th**

# 2. WP1 Construction Update

Status of Flood Protection, East half

STA	NORTHING (m)	EASTING (m)	FCL ELEV (m)
1+000	5432245.09	395016.77	515.61
1+010	5432235.89	395014.67	515.61
1+020	5432226.68	395018.58	515.61
1+030	5432217.48	395022.48	515.61
1+040	5432214.78	395030.39	515.61
1+050	5432208.14	395038.38	515.61
1+060	5432201.29	395044.57	515.61
1+070	5432193.43	395060.75	515.61
1+080	5432186.08	395067.53	515.61
1+090	5432178.74	395064.32	515.61
1+100	5432171.32	395071.01	515.61
1+110	5432162.21	395074.90	515.61
1+120	5432153.65	395080.07	515.61
1+130	5432144.04	395084.98	515.56
1+140	5432135.70	395088.78	515.52
1+150	5432126.33	395092.10	515.51
1+160	5432116.99	395095.21	515.51
1+170	5432107.89	395098.30	515.51

STA	NORTHING (m)	EASTING (m)	FCL ELEV (m)
1+200	5432078.42	395106.50	515.51
1+210	5432070.16	395112.29	515.51
1+220	5432060.91	395116.08	515.51
1+230	5432051.65	395119.86	515.51
1+240	5432042.40	395123.65	515.51
1+250	5432033.14	395127.44	515.51
1+260	5432023.89	395131.23	515.51
1+270	5432014.63	395135.01	515.51
1+280	5432005.38	395138.80	515.51
1+290	5431996.12	395142.59	515.51
1+300	5431986.87	395146.37	515.50
1+310	5431977.39	395149.55	515.50
1+320	5431967.65	395151.79	515.50
1+330	5431957.75	395153.15	515.50
1+340	5431947.76	395153.63	515.50
1+350	5431937.77	395153.22	515.50
1+360	5431927.86	395151.02	515.50
1+370	5431918.10	395149.74	515.50

STA	NORTHING (m)	EASTING (m)	FCL ELEV (m)
1+400	5431891.86	395136.02	515.50
1+410	5431886.06	395127.90	515.50
1+420	5431882.59	395118.55	515.50
1+430	5431879.91	395108.92	515.50
1+440	5431877.22	395099.29	515.50
1+450	5431874.53	395089.65	515.50
1+460	5431871.85	395080.02	515.50
1+470	5431868.82	395070.49	515.50
1+480	5431865.79	395060.96	515.50

NOTES:  
SETOUT POINTS AT CENTERLINE



## 2. WP1 Construction Update

Granby River Dike - North





## 2. WP1 Construction Update

Granby River Dike - South





## 2. WP1 Construction Update

Riverside Pump Station





## 2. WP1 Construction Update

Kettle River Dike





## 2. WP1 Construction Update

Kettle River Dike Cont.





## 2. WP1 Construction Update

4<sup>th</sup> St Pump Station





## 2. WP1 Construction Update

4<sup>th</sup> St Pump Station Cont.





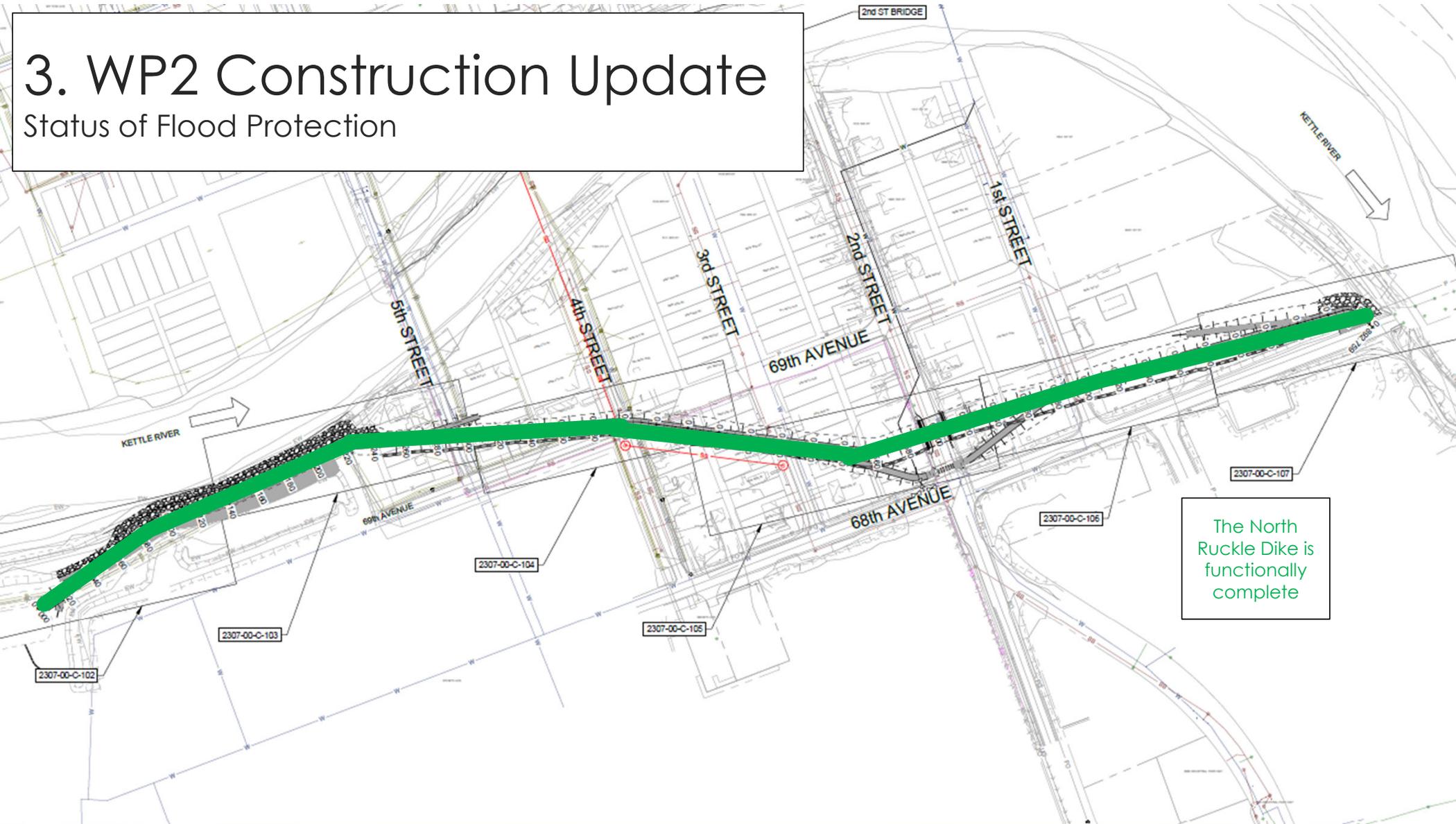
## 2. WP1 Construction Update

City Park



# 3. WP2 Construction Update

Status of Flood Protection



The North Ruckle Dike is functionally complete



### 3. WP2 Construction Update

North Ruckle Earth Berm Dike





### 3. WP2 Construction Update

Interfor Sheet pile dike



# 4. Costs to Date

Scope	Actuals (to Jan 31st)
WP1 - Downtown	\$ 16,922,160
WP2 a&b - North Ruckle	\$ 7,260,255
WP 5 - Johnson Flats	\$ 1,850,019
WP 7 - Floodplain Restoration	\$ 126,845
Haz-mat Assessments	\$ 54,149
Demolition	\$ 452,265
<b>Capital Projects Subtotal</b>	<b>\$ 26,665,693</b>
Property (land)	\$ 6,659,339
Property (improvements)	\$ 7,370,785
Add. City Contributions (LAP)	\$ 3,464,764
<b>Property Subtotal</b>	<b>\$ 17,494,888</b>
Additional City Contributions (non-LAP)	\$ 776,780
<b>Grand Total</b>	<b>\$ 44,937,361</b>

## 5. Current Workplan (to end of April 2023)

Scope	Forecast (March to April)
WP1 – Downtown, Substantial Completion	\$2,995,765
WP2 a&b - North Ruckle, Substantial Completion	\$652,148
WP2c – Rockwool, Final Design and Permitting	\$50,000
WP 7 - Floodplain Restoration and Offsetting, Early Work	\$90,000
Haz-mat Assessments	\$20,508
Demolition	\$50,000
<b>Total</b>	<b>\$3,858,421</b>

### Projected Grand Total to April 2023:

$$\$44,937,361 + \$3,858,421 = \$48,795,782$$

Note: While this forecast to the end of April has gone down \$1.1M since the last report, the overall forecast remains the same for the current projects. The \$1.1M has been moved beyond April (see 2023 capital plan slide)

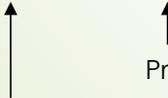
## 6. Remaining Work (beyond April)

Scope	Status
WP1 – Downtown, Final Completion	Forecast to cost \$3,327,000. Must be completed in 2023
WP2 a&b - North Ruckle, Final Completion	Forecast to cost \$649,000. Must be completed in 2023
WP2c – Rockwool, Construction	Forecast to cost \$3,823,000. DFA funding of \$1.38 million approved. Construction commencing mid 2023. Complete in 2024
WP3 – South Ruckle	Design commencing summer 2023. Design to inform updated budget.
WP4 - Granby	Not in proposed 2023 workplan. Design to inform updated budget
WP6 – Rural Riparian	Not in proposed 2023 workplan. Design to inform updated budget
WP 7 – Floodplain Restoration	Design complete. Early procurement underway. Work commencing mid 2023 and complete by Spring 2024. Forecast to cost \$1,324,000 beyond April
Demolition	Commencing April 2023. To be completed by end of year. Forecast to cost \$796,000 beyond April

Note: The increases to the WP1 and WP2 final completion costs since the last report reflect a shift of work beyond April, not an increase in the overall costs

# 7. 2023 DMAF Capital Plan

Scope	May	June	July	Aug	Sept	Oct	Nov	Dec	Carry over to 2024	Total
<b>WP1 – Downtown, Final Completion</b> <i>Includes paving, topsoil and hydroseeding in Spring, and Riverside multiutility project in Summer and Fall.</i>	\$ 850,000	\$ 350,000	\$ 200,000	\$ 350,000	\$ 600,000	\$ 700,000	\$ 277,000			\$ 3,327,000
<b>WP2 a&amp;b - North Ruckle, Final Completion</b> <i>Includes paving, topsoil, hydroseeding, and cleanup work</i>	\$ 350,000	\$ 150,000	\$ 149,000							\$ 649,000
<b>Demolition</b>	\$ 50,000	\$ 75,000	\$ 150,000	\$ 250,000	\$ 200,000	\$ 70,842				\$ 795,842
<b>WP 7 – Floodplain Restoration</b>		\$ 190,000	\$ 190,000	\$ 220,000	\$ 240,000	\$ 230,000	\$ 80,000		\$ 174,388	\$ 1,324,388
<b>WP2c – Rockwool, Construction</b>				\$ 150,000	\$ 250,000	\$ 500,000	\$ 500,000	\$ 500,000	\$1,923,000	\$ 3,823,000
<b>WP3 – South Ruckle, Design</b>			\$ 25,000	\$ 50,000	\$ 75,000	\$ 25,000				\$ 175,000
<b>Totals</b>	<b>\$ 1,250,000</b>	<b>\$ 765,000</b>	<b>\$ 714,000</b>	<b>\$ 1,020,000</b>	<b>\$1,365,000</b>	<b>\$1,525,842</b>	<b>\$ 857,000</b>	<b>\$ 500,000</b>	<b>\$2,097,388</b>	<b>\$ 10,094,230</b>


 Prior to tendering construction for WP2c in June, remaining work will be reforecast  
 In May, the City will find out if the UBCM grant application was successful (approx. \$1.6m)

Note: The \$1.1M increase in the table above since the last report was previously expected to be spent by April. The overall budget for the current projects remains the same.

Thank  
you

