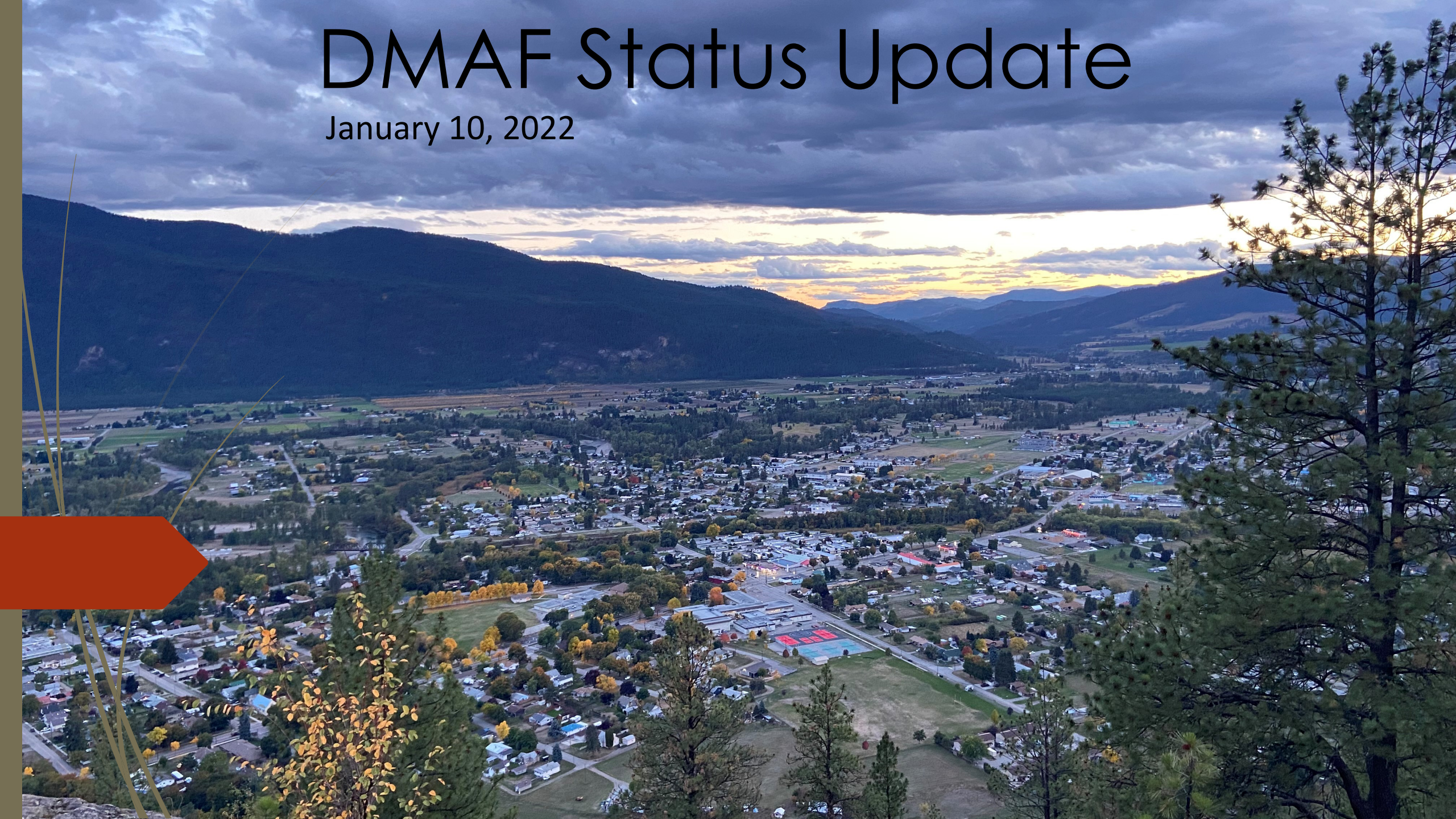


DMAF Status Update

January 10, 2022





Outline

1. **Monthly Highlights**
2. **Status of Permits**
3. **Design Update**
4. **Schedule**



1. Monthly Highlights

- A. Significant progress towards WP1 permits
- B. Design drawings 100% complete and stamped for WP1 and WP2 a&b
- C. Work Package 1 Construction Manager RFP Closed Dec 23rd. Contractor selected Jan 5th
- D. North Ruckle demolitions underway

2. Status of Permits

Federal Permits

	Work Package 1	Work Package 2, a&b
Species at Risk Act (SARA)	Received	Received
DFO Authorization	WP1 and 2 Merged. Expected week of Jan 10th	

Provincial Permits

	Work Package 1	Work Package 2, a&b
Heritage Inspection Permit	Received for the program March 3	
Site Alteration Permit	Received Nov 17 th	N/A
Crown Land Tenure (License of Occupation)	Received Dec 8th	FLNRORD dealing with internal queries
Water Sustainability Act (WSA), Change Approval for Instream Work	Expected Jan 14th	FLNRORD Reviewing
WSA Fish Collection Permit	FLNRORD Reviewing	FLNRORD Reviewing
Dike Maintenance Act (DMA) Application	Expected Jan 10th	DIOD Reviewing. No red flags.
MoTI Right of Way at Highway 3 Bridge	MoTI Engaged	N/A
License to Cut	Expected week of Jan 10th	Follows LOO. Letter drafted.

3. Design Update – Drawings and Specifications Stamped

FLOOD MITIGATION PROGRAM WORK PACKAGE 1.3 DOWNTOWN FLOOD MITIGATION WORKS

CONSTRUCTION CONTRACT

DECEMBER 2021

PERMIT TO PRACTICE EXP SERVICES INC.	
BY SIGNATURE: 	
BY EDD: 30157	DATE: 1/22/2021
PERMIT NUMBER: P1002313	
Engineers & Geoscientists British Columbia (EGBC)	



2021-12-20

Geoffrey Cahill
Senior Water Resources
Engineer – Flood
Mitigation Design Lead

Flood Mitigation /
Hydrotechnical



2021-12-17

Alexander Jancker
Mechanical Engineer

Mechanical



2021-12-18

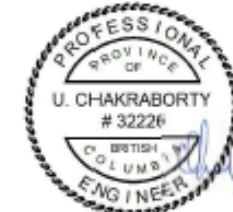
Chris Duncan
Water Resources
Engineer – Project
Engineer

Stormwater



Louis De Lange
Electrical Engineer

Electrical



2021-12-20 09:34:04-08:00

Ujjal Chakraborty
Geotechnical Engineer

Geotechnical



2021-12-17

Siu Fung Ma
Civil Engineer

Sanitary



2021-12-17

Esaly Wu
Structural Engineer

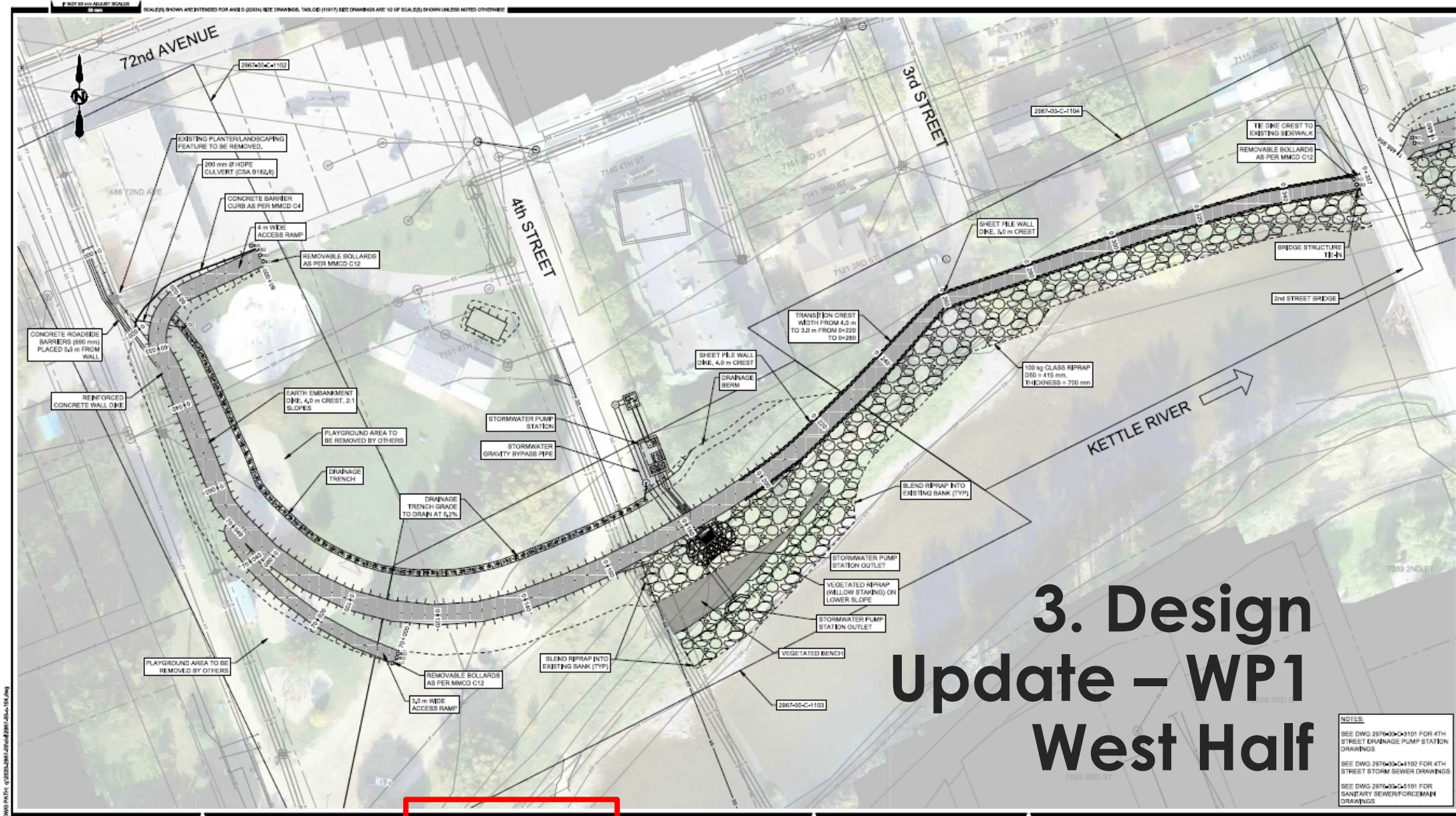
Structural



2021-12-20

Chris Lamont
Infrastructure Engineer

Horizontal Directional
Drilling



PERMIT TO PRACTICE
ASSOCIATED ENGINEERING (B.C.) LTD.
PERMIT NUMBER: 1000163
Engineers & Geoscientists BC



REV	DATE	DESIGN	DRAWN	DESCRIPTION
1	2021-12-20	DESIGN	DESIGN	DESIGN
2	2021-12-20	DESIGN	DESIGN	DESIGN
3	2021-12-20	DESIGN	DESIGN	DESIGN
4	2021-12-20	DESIGN	DESIGN	DESIGN
5	2021-12-20	DESIGN	DESIGN	DESIGN
6	2021-12-20	DESIGN	DESIGN	DESIGN
7	2021-12-20	DESIGN	DESIGN	DESIGN
8	2021-12-20	DESIGN	DESIGN	DESIGN
9	2021-12-20	DESIGN	DESIGN	DESIGN
10	2021-12-20	DESIGN	DESIGN	DESIGN

CITY OF GRAND FORKS

FLOOD MITIGATION PROGRAM
WORK PACKAGE 1.3
DOWNTOWN FLOOD MITIGATION WORKS
20202967-00

SCALE: 1:400



CIVIL
PLAN

DRAWING	REVISION	SHEET
2967-00-C-1101	0	04

3. Design Update – WP1 East Half

100 kg CLASS RIB-RAP
D50 = 415 mm,
THICKNESS = 700 mm

DRAINAGE TRENCH

EARTH EMBANKMENT DIKE,
4.0 m CREST, 2:1 SLOPES

SHEET PILE WALL DIKE

SETBACK SHEET PILE WALL DIKE

RIVERSIDE DRIVE

CONCRETE BARRIER CURB AS PER MMCD C4

1- REMOVABLE BOLLARDS AS PER MMCD C12

BLIND REPAIR INTO EXISTING BANK (TYP)

BLIND REPAIR INTO EXISTING BANK (TYP)

STORMWATER GRAVITY OUTFALL

STORMWATER GRAVITY BYPASS PIPE

STORMWATER PUMP STATION

STORMWATER PUMP STATION OUTLET

100 kg CLASS RIB-RAP
D50 = 415 mm,
THICKNESS = 700 mm

TE DIKE CREST TO EXISTING PATH

REMOVABLE BOLLARDS AS PER MMCD C12

2ND STREET BRIDGE

2ND STREET

72ND AVENUE

MARKET AVENUE

NOTES:

SEE DWG 287600-02101 FOR RIVERSIDE DRAINAGE PUMP STATION DRAWINGS

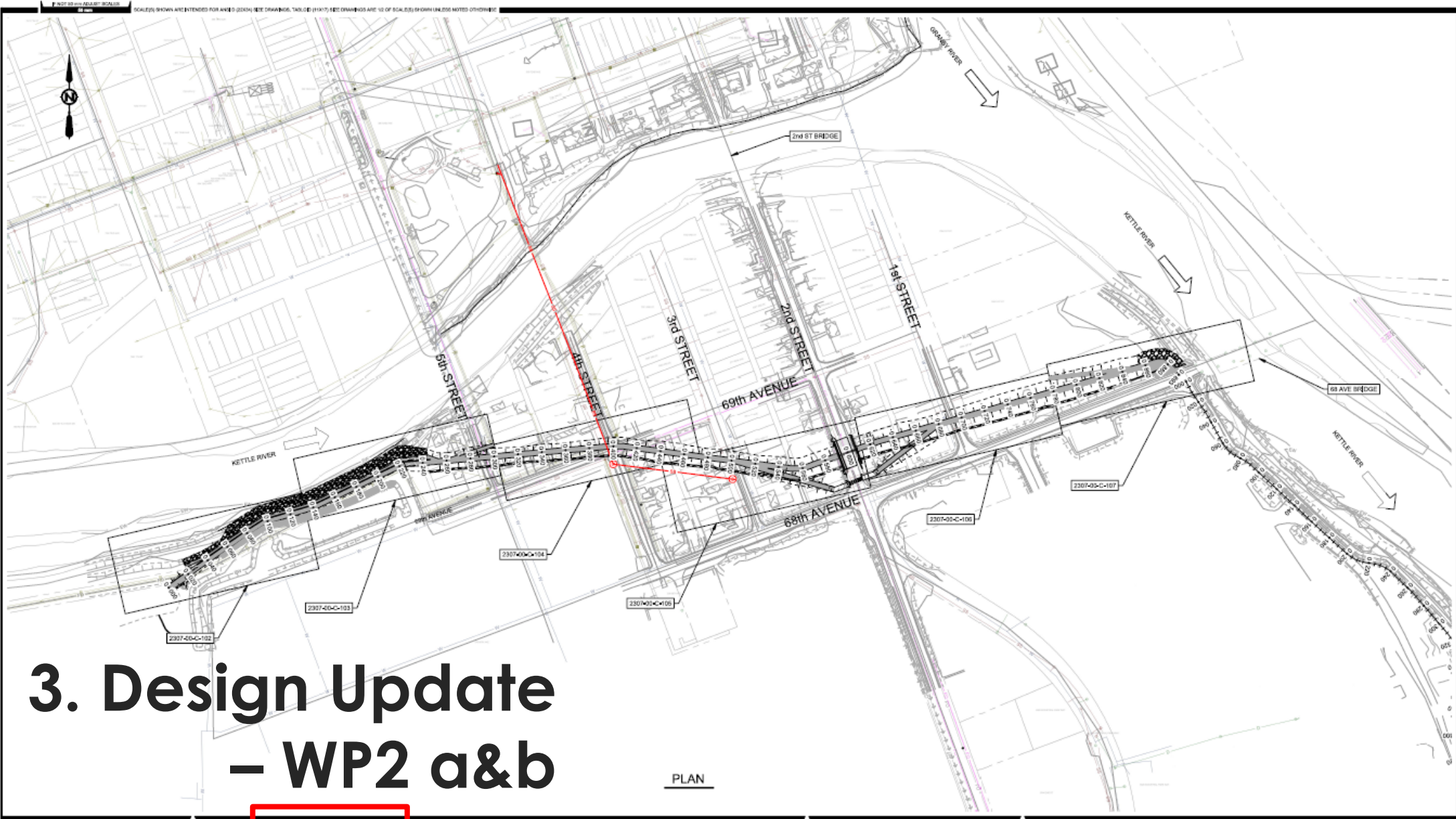
SEE DWG 287600-04101 FOR RIVERSIDE STORM SEWER DRAWINGS



Associated Engineering



DRAWING	REVISION	SHEET
2967-00-C-1105	0	08



3. Design Update – WP2 a&b

PLAN



Associated
Engineering



Platinum member



PERMIT TO PRACTICE
ASSOCIATED ENGINEERING (B.C.) LTD.
PERMIT NUMBER: 1000163
Engineers & Geoscientists BC

REV	DATE	DESIGN	DRAWN	DESCRIPTION
1	2021-04-01	C. DUNHAM	J. LEE	DESIGN FOR TENDER

CITY OF GRAND FORKS

FLOOD MITIGATION PROGRAM
WORK PACKAGE 2.0
NORTH RUCKLE SEGMENTS A & B
20212307-00

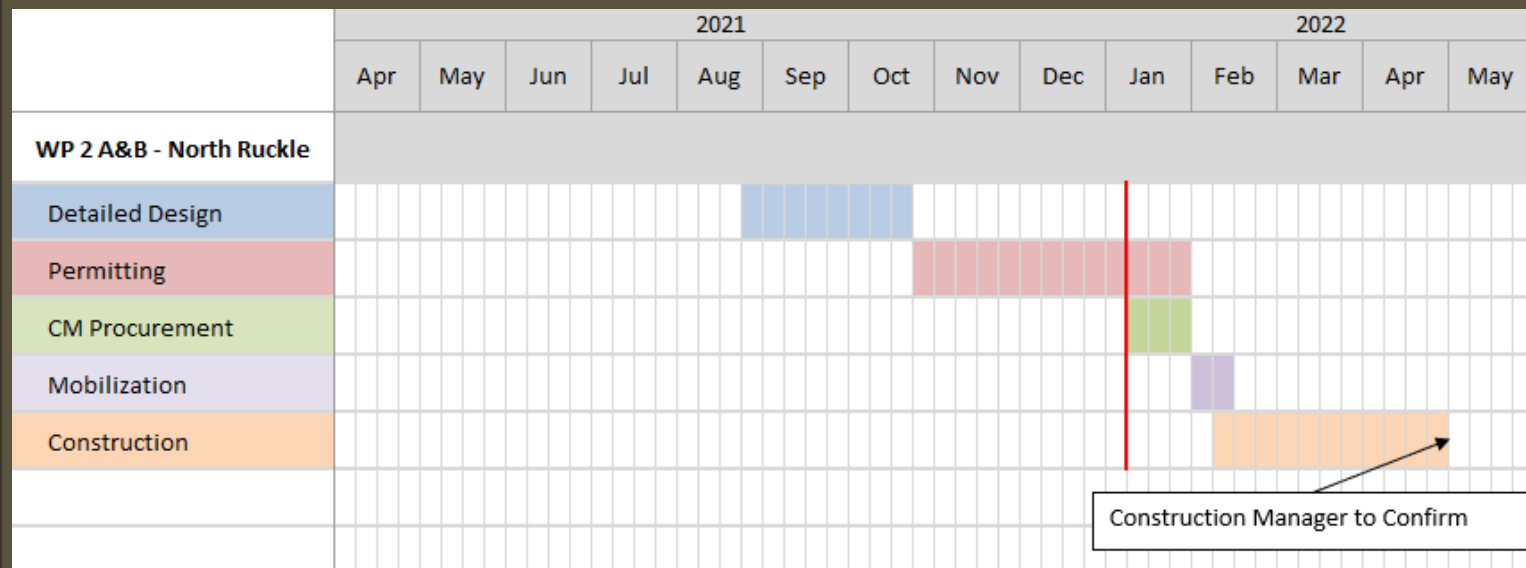
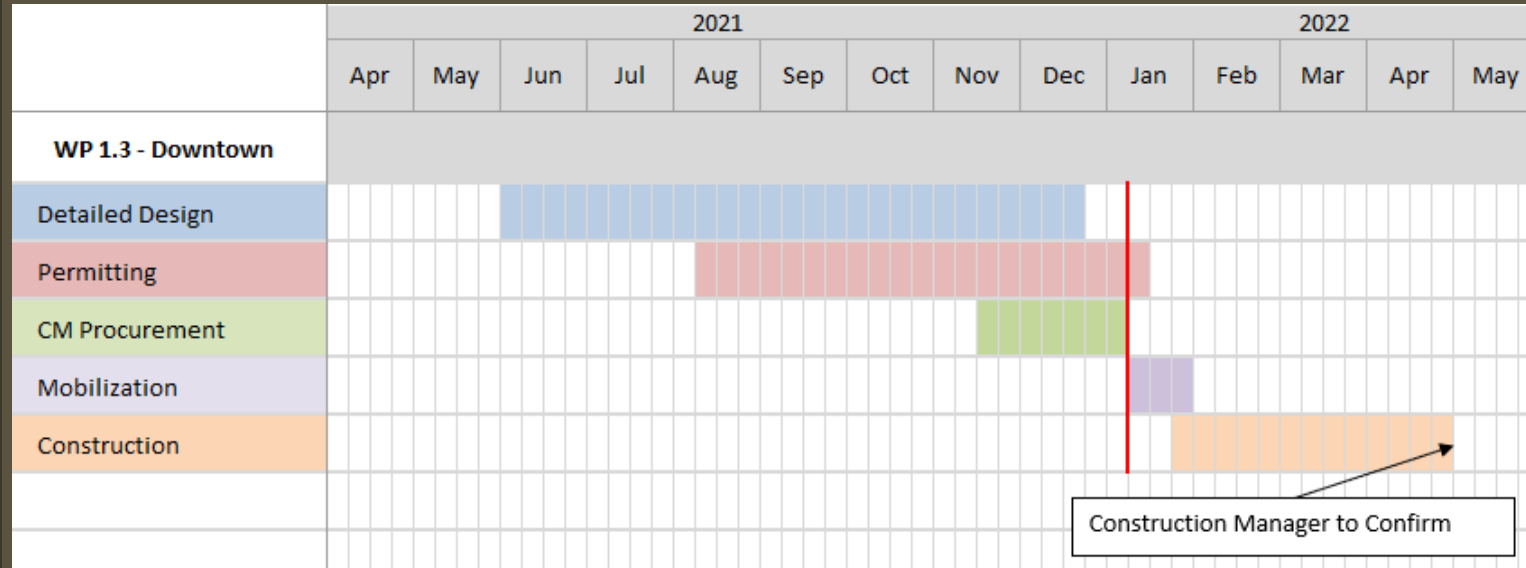
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CIVIL
PLAN
NORTH RUCKLE FULL VIEW

DRAWING	REVISION	SHEET
2307-00-C-101	0	3

4. Schedule Update





Thank you