

Prepared by:

Md Makamum Mahmood, M.Eng., P.Eng.
Associate

Reviewed by:

Robyn Andrishak, M.Sc., P.Eng.
Principal

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ROBB FLOOD STUDY

**OPEN WATER FLOOD INUNDATION
MAP LIBRARY**

Prepared for:



22 September 2025

NHC Ref. No. 1009252



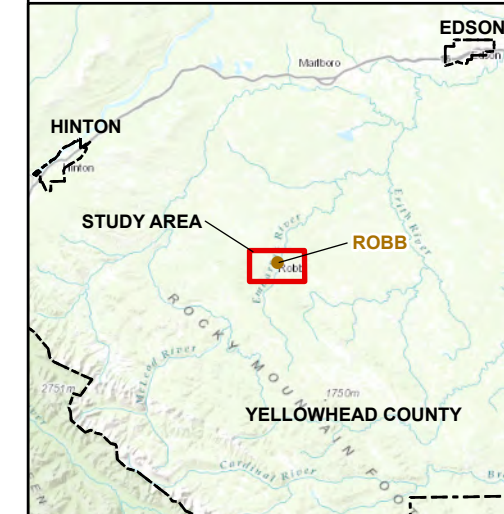
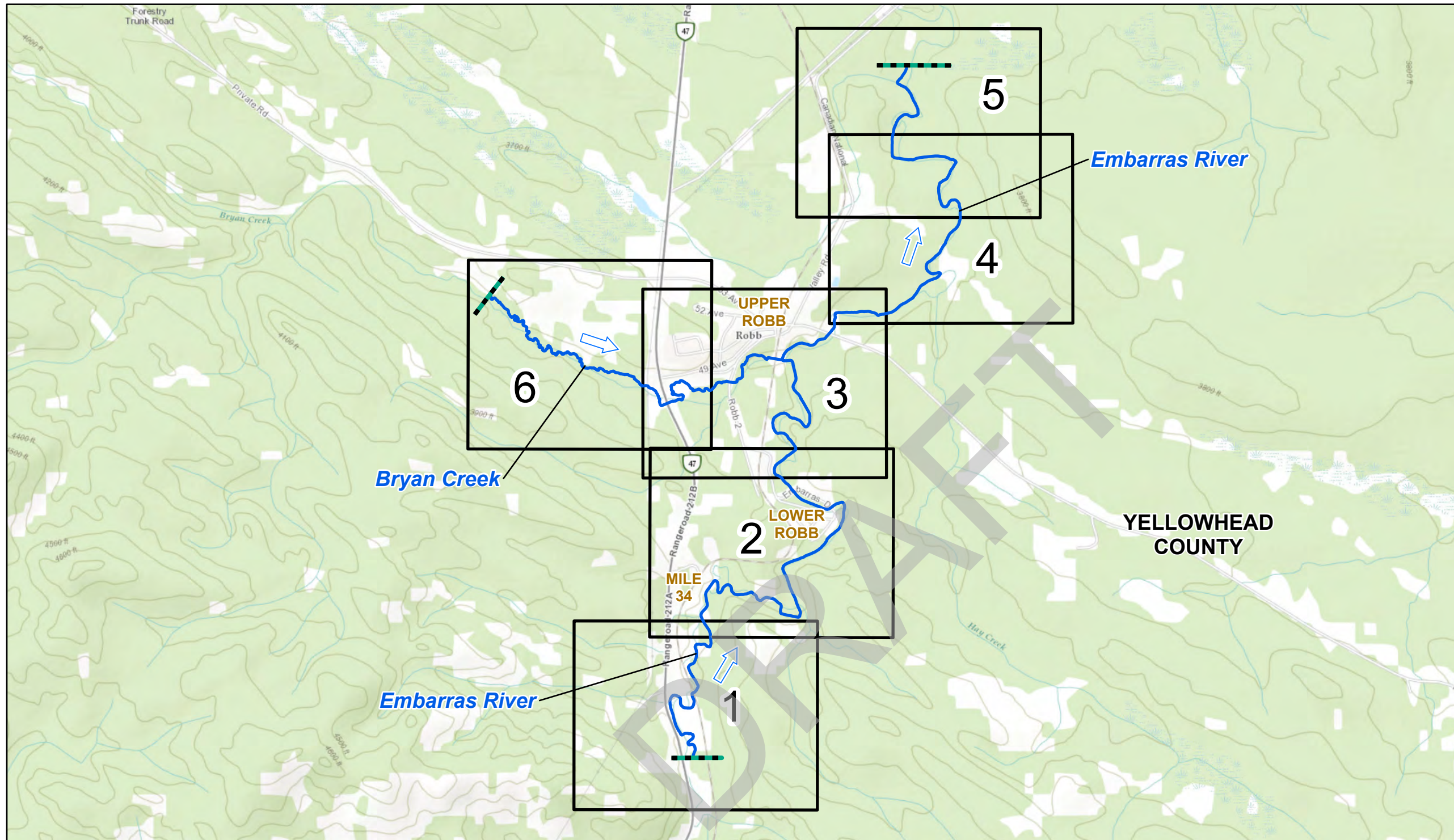
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DRAFT

OPEN WATER FLOOD INUNDATION INDEX MAP

DRAFT



- FLOW DIRECTION
- STUDY LIMIT
- STUDY REACH
- MAP SHEET

Notes to Users:

1. Please refer to the accompanying **Robb Flood Study Report** for important information concerning these maps.
2. Within the flood inundation areas shown on this map, there may be isolated pockets of high ground. To determine whether or not a particular site is subject to flooding, reference should be made to the computed flood levels in conjunction with site-specific surveys where detailed definition is required.
3. Non-riverine and local sources of water have not been considered, and structures such as roads, railways, or barriers such as levees can restrict water flow and affect local flood levels. Channel obstruction, local stormwater inflow, groundwater seepage, or other land drainage can cause flood levels to exceed those indicated on the map. Lands adjacent to a flooded area may be subject to flooding from tributary streams not indicated on the maps.
4. The flood inundation area is shown above the line work for bridges and flood control structures that are below flood levels.

Definitions:

Flood Inundation Mapping - Delineates flood inundation areas, showing the extent of one or more flood scenarios under existing conditions. Depending on the particular flood scenario, the mapping may be divided into multiple zones. Flood inundation mapping is typically used for near real-time emergency response planning and operations.

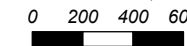
Flood Inundation Area - The area inundated during a particular flood scenario under existing conditions. The flood inundation area may be divided into multiple zones, including areas inundated due to potential flood control structure failure and isolated areas that may become inundated due to groundwater seepage or other subsurface connections. Flood inundation areas may change as a result of future development or flow obstructions.

Flood Scenario- Flow conditions that describe a particular flood event. Flood scenarios typically represent a range of flows, based either on flood frequency analysis or set flow intervals. The flood scenarios included with this map set include the 2-year, 5-year, 10-year, 20-year, 35-year, 50-year, 75-year, 100-year, 200-year, 350-year, 500-year, 750-year, and 1000-year flood events.

Data Sources and References:

1. Aerial Imagery Source: From ESRI World Imagery, ESRI, Maxar, Earthstar Geographics, and the GIS user community, Imagery dated on 09 AUG 2024
2. Flood extent mapping is based on a digital terrain model derived from 2024 LiDAR data collected by Airborne Imaging Inc. for Alberta Environment and Protected Areas and 2024 bathymetric and topographic survey data collected by Northwest Hydraulic Consultants Ltd.
3. Base data from Hamlet of Robb, Natural Resources Canada, Alberta Environment and Protected Areas, and Altalis.

SCALE - 1:30,000



Coordinate System: NAD 1983 CSRS 3TM 117;
Vertical Datum: CGVD28 HTv2.0; Units: Metres

Engineer MMM	GIS JY	Reviewer MSN/RBA
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Job Number 1009252	Date 24-JUL-2025
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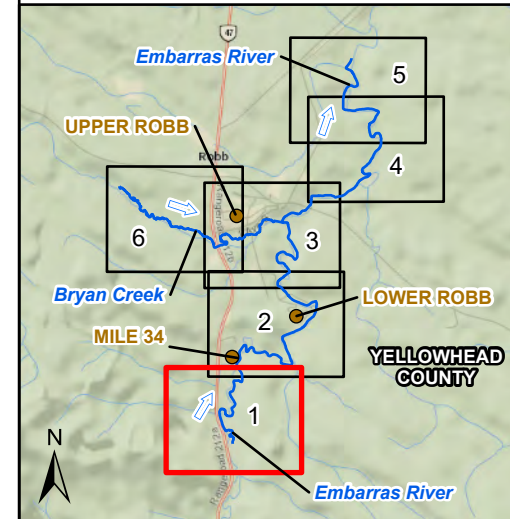
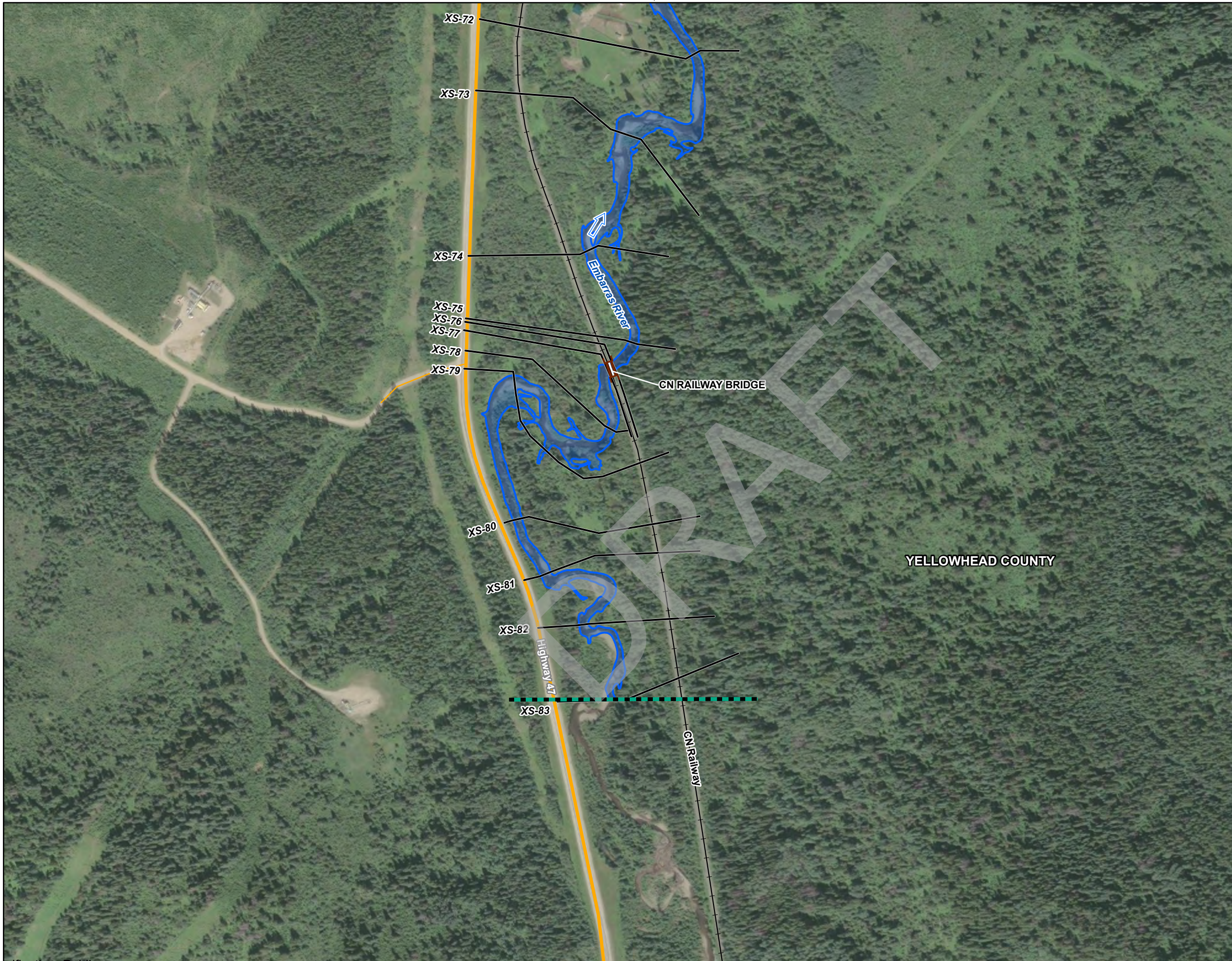
**ROBB FLOOD STUDY
OPEN WATER FLOOD
INUNDATION MAP**

INDEX MAP

2-YEAR OPEN WATER FLOOD INUNDATION MAP

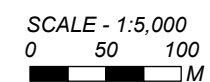
(SHEETS 1 TO 6)

DRAFT



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 2-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER ABOVE BRYAN CREEK = 12.9 m³/s



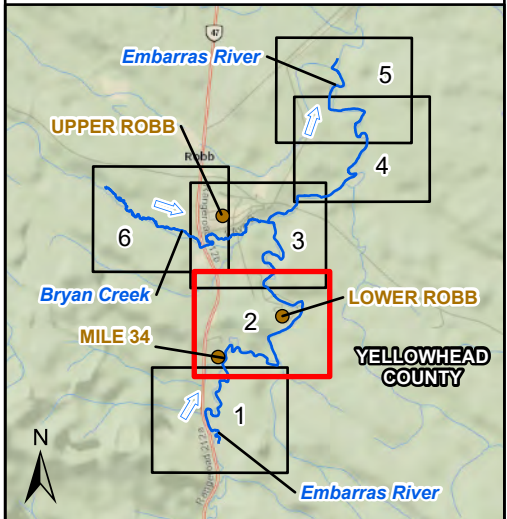
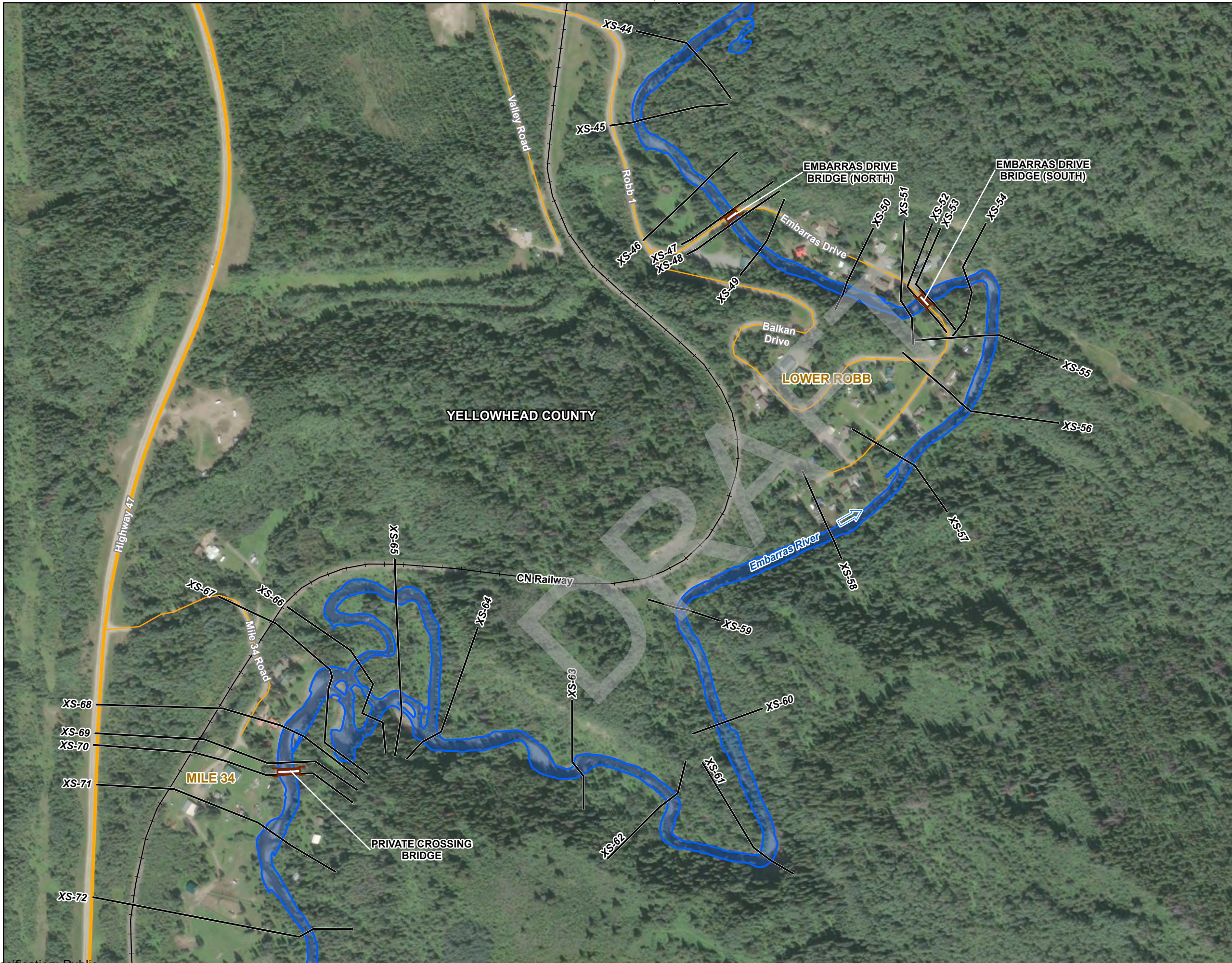
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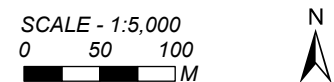
ROBB FLOOD STUDY
2-YEAR OPEN WATER
FLOOD INUNDATION MAP

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- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 2-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER ABOVE BRYAN CREEK = 12.9 m³/s

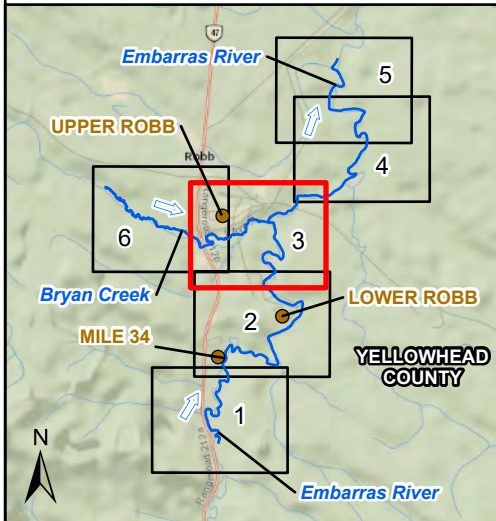
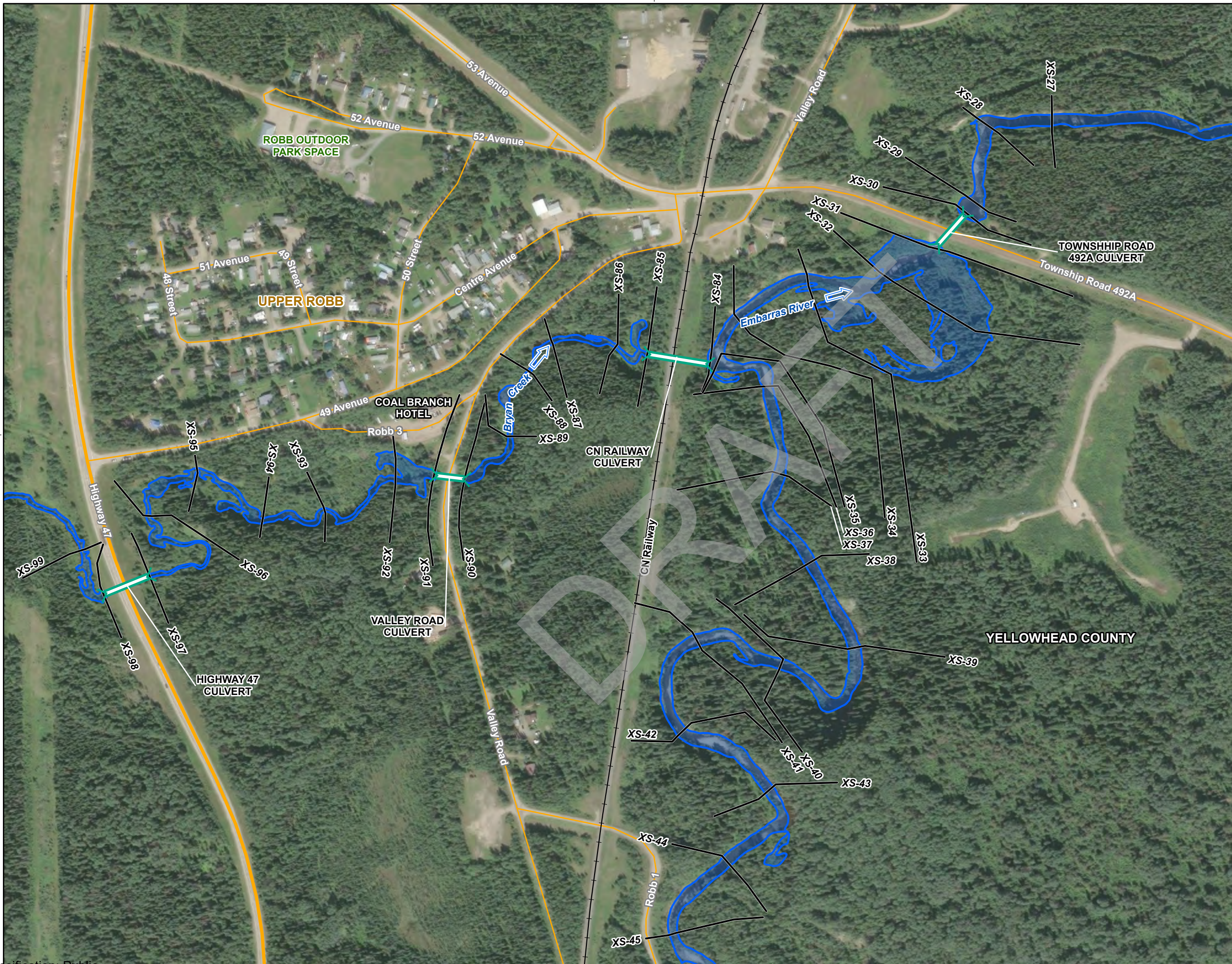


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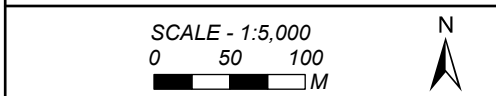
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ROBB FLOOD STUDY
2-YEAR OPEN WATER
FLOOD INUNDATION MAP



- MAJOR HIGHWAY
- LOCAL ROAD
- + RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 2-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
 EMBARRAS RIVER ABOVE BRYAN CREEK = 12.9 m³/s
 EMBARRAS RIVER BELOW BRYAN CREEK = 16.6 m³/s
 BRYAN CREEK = 3.5 m³/s



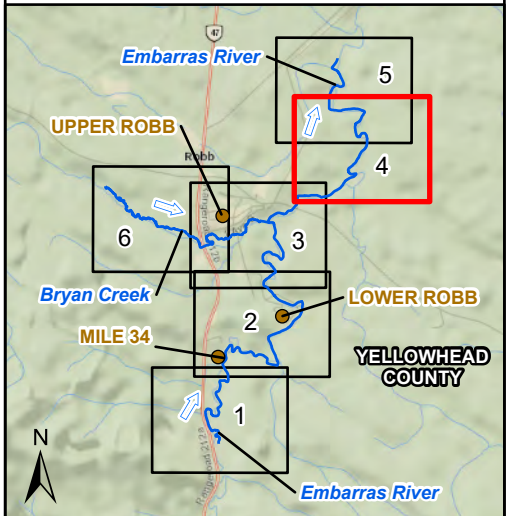
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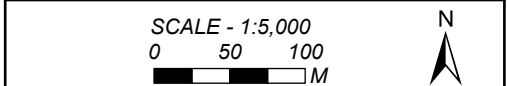
ROBB FLOOD STUDY
2-YEAR OPEN WATER
FLOOD INUNDATION MAP

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- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 2-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER BELOW BRYAN CREEK = 16.6 m³/s



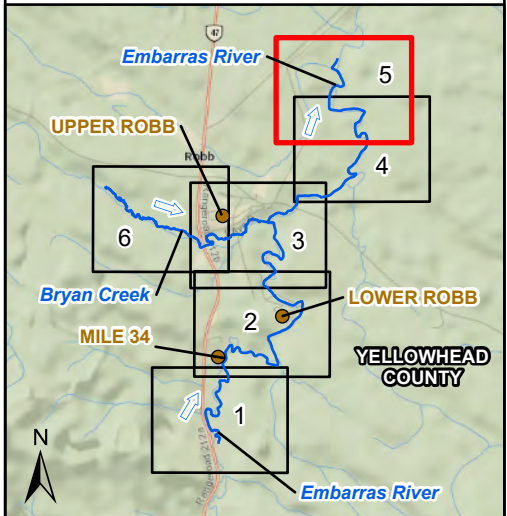
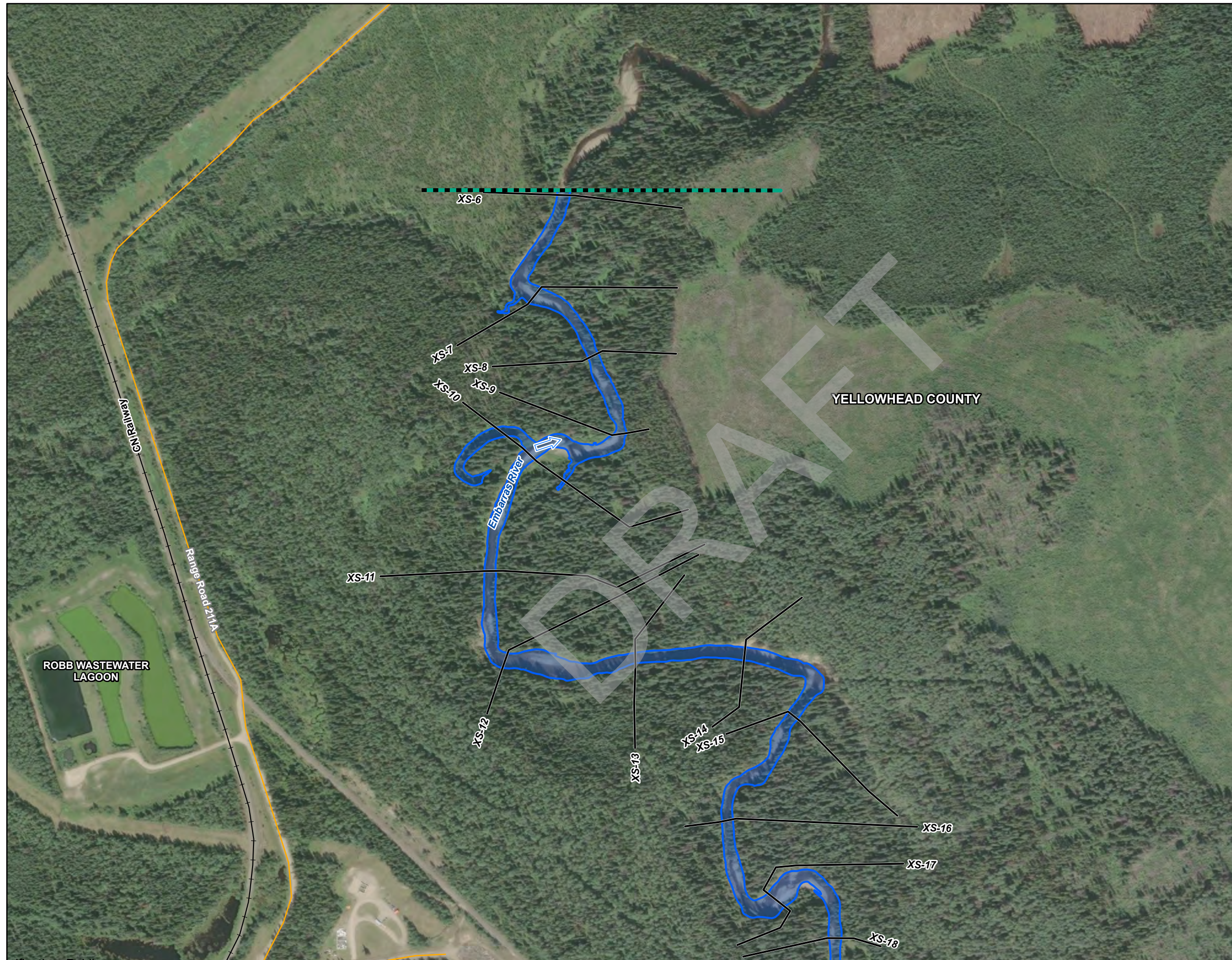
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Job Number	Date
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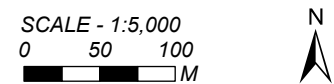
ROBB FLOOD STUDY
2-YEAR OPEN WATER
FLOOD INUNDATION MAP

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- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 2-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
 EMBARRAS RIVER BELOW BRYAN CREEK = 16.6 m³/s

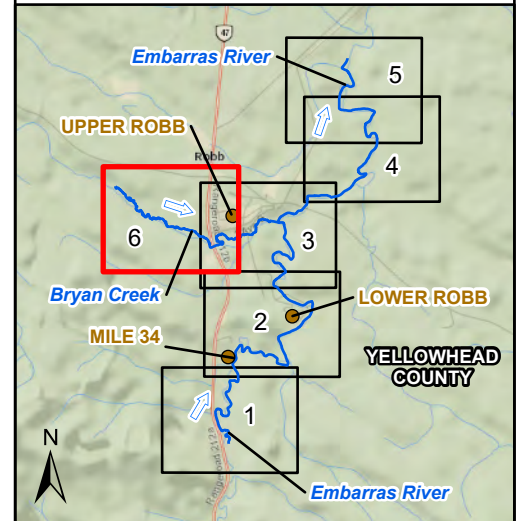


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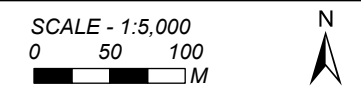
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ROBB FLOOD STUDY
2-YEAR OPEN WATER
FLOOD INUNDATION MAP



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 2-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
BRYAN CREEK = 3.5 m³/s

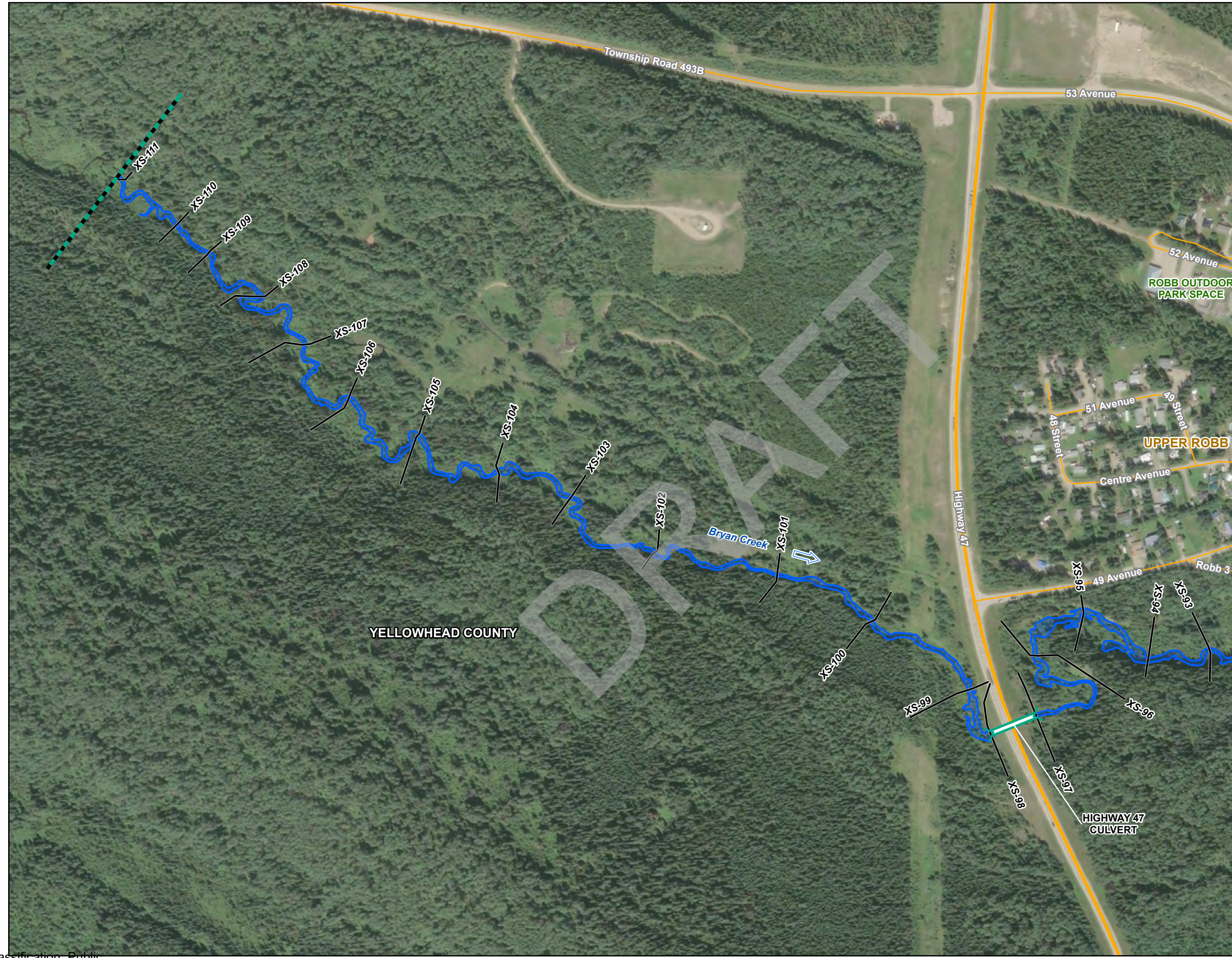


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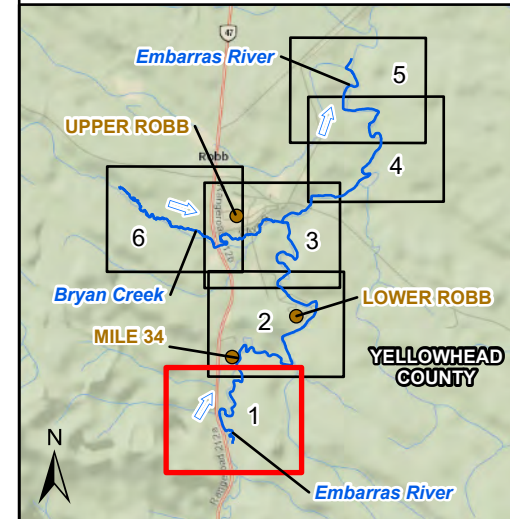
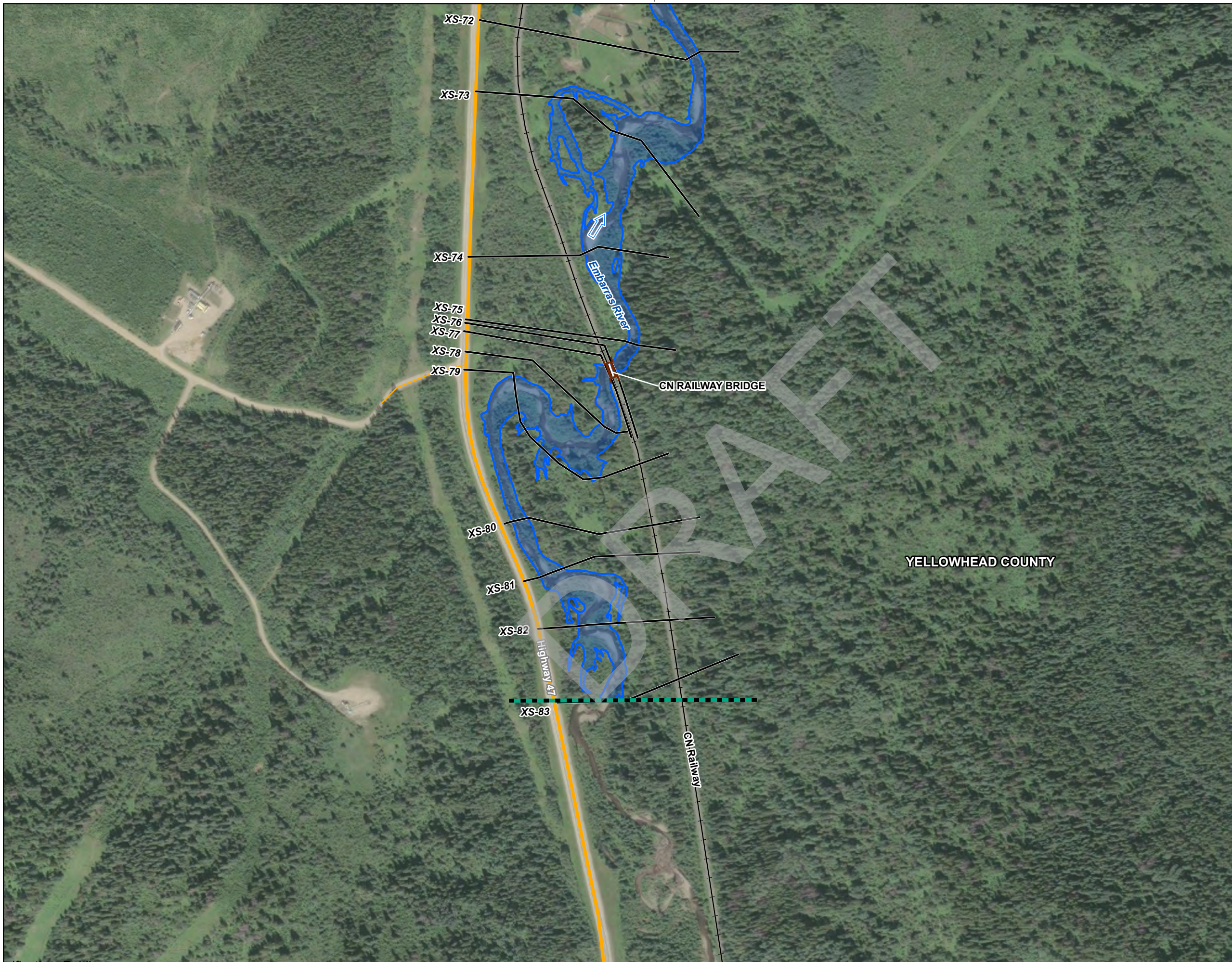
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ROBB FLOOD STUDY
2-YEAR OPEN WATER
FLOOD INUNDATION MAP



**5-YEAR OPEN WATER FLOOD INUNDATION MAP
(SHEETS 1 TO 6)**

DRAFT



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 5-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER ABOVE BRYAN CREEK = 26.6 m³/s

SCALE - 1:5,000
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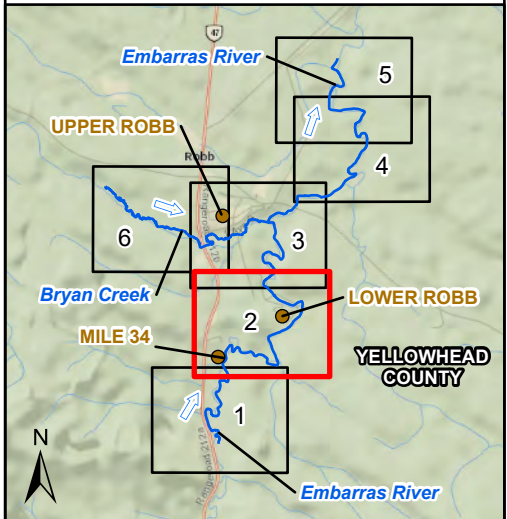
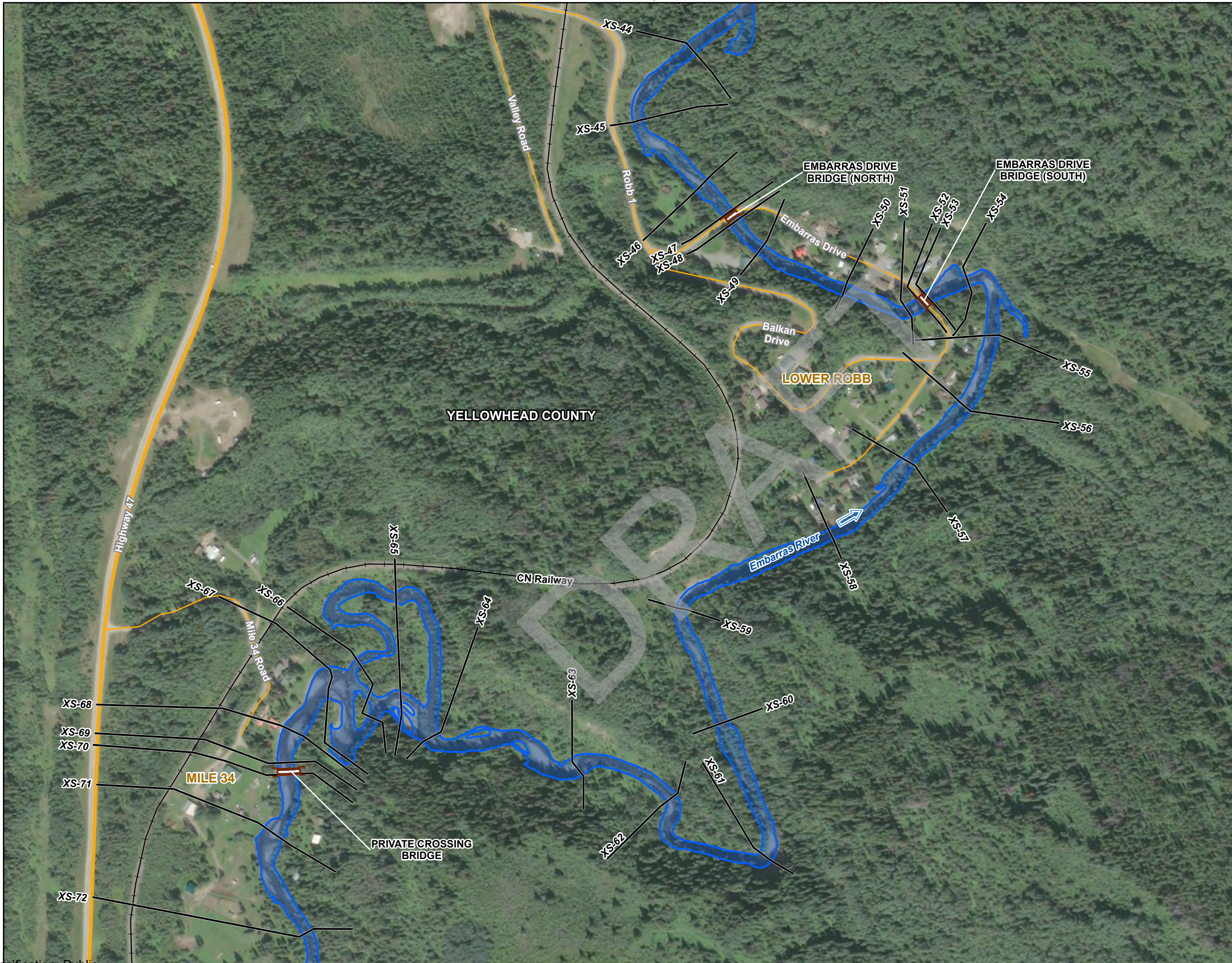
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Job Number	Date
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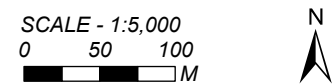
ROBB FLOOD STUDY
5-YEAR OPEN WATER
FLOOD INUNDATION MAP

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- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 5-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER ABOVE BRYAN CREEK = 26.6 m³/s

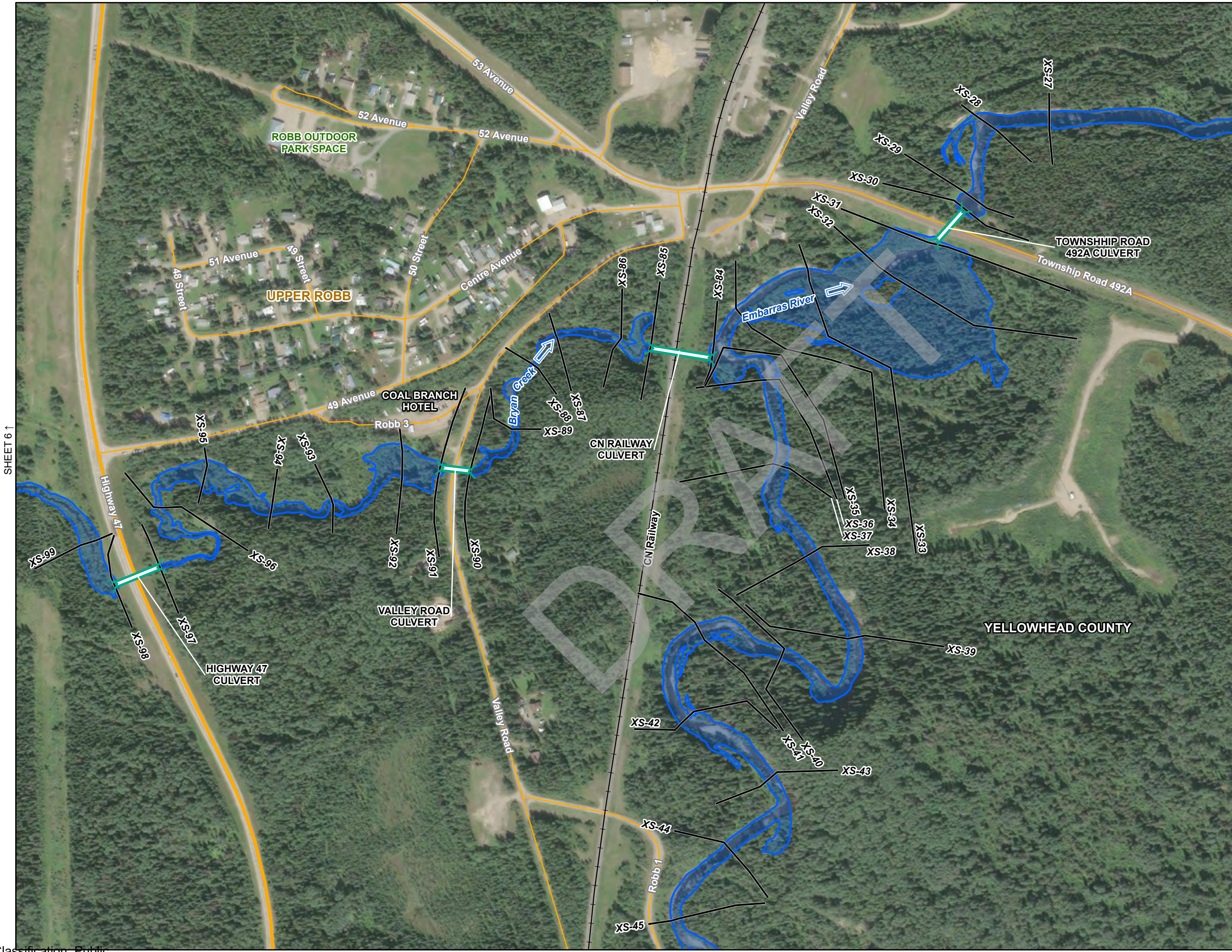


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Job Number	1009252	Date	09-JUL-2025
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ROBB FLOOD STUDY
5-YEAR OPEN WATER
FLOOD INUNDATION MAP



Alberta Canada

nhc

MAJOR HIGHWAY
LOCAL ROAD
RAILWAY
BRIDGE
CULVERT
STUDY LIMIT
CROSS SECTION
FLOW DIRECTION
5-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER ABOVE BRYAN CREEK = 26.6 m³/s
EMBARRAS RIVER BELOW BRYAN CREEK = 34.2 m³/s
BRYAN CREEK = 7.3 m³/s

SCALE - 1:5,000
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Coordinate System: NAD 1983 CSRS 3TM 117;
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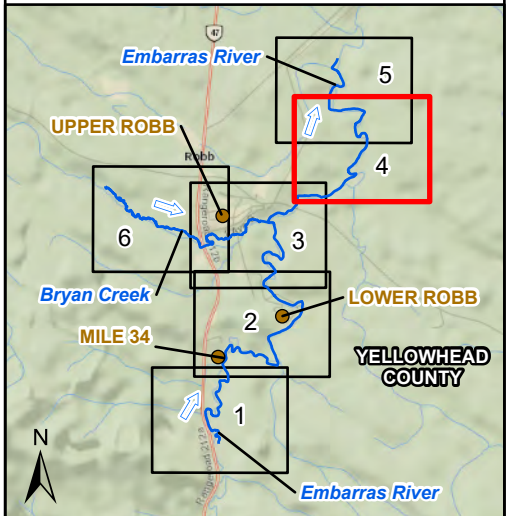
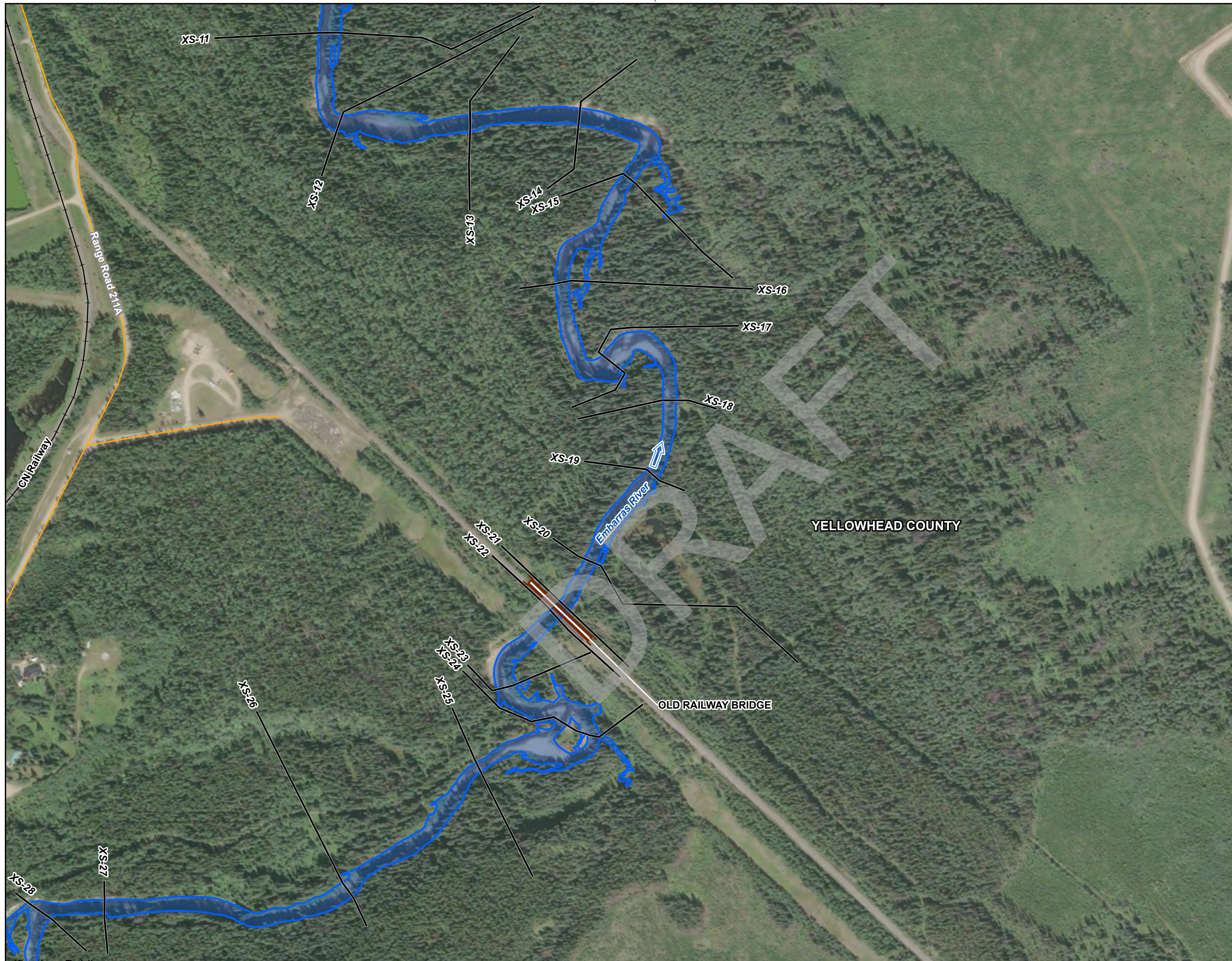
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Job Number	1009252		Date	09-JUL-2025	

ROBB FLOOD STUDY
5-YEAR OPEN WATER
FLOOD INUNDATION MAP

SHEET 3 OF 6

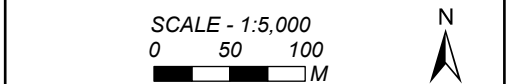
SHEET 6 ↑

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- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 5-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER BELOW BRYAN CREEK = 34.2 m³/s



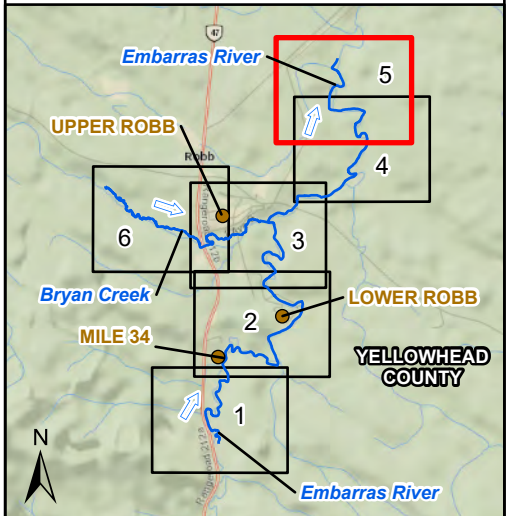
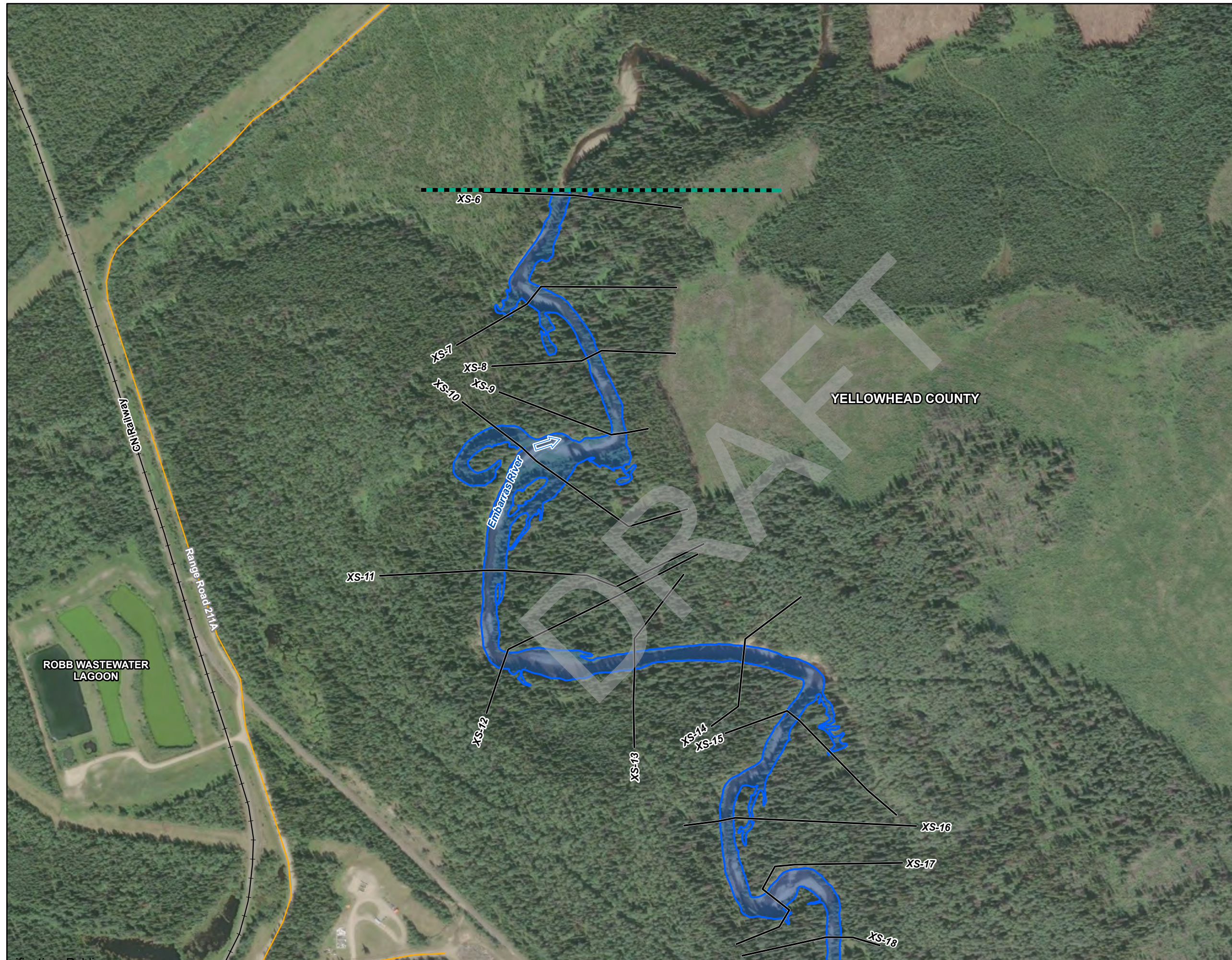
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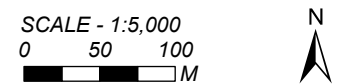
ROBB FLOOD STUDY
5-YEAR OPEN WATER
FLOOD INUNDATION MAP

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- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 5-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER BELOW BRYAN CREEK = 34.2 m³/s

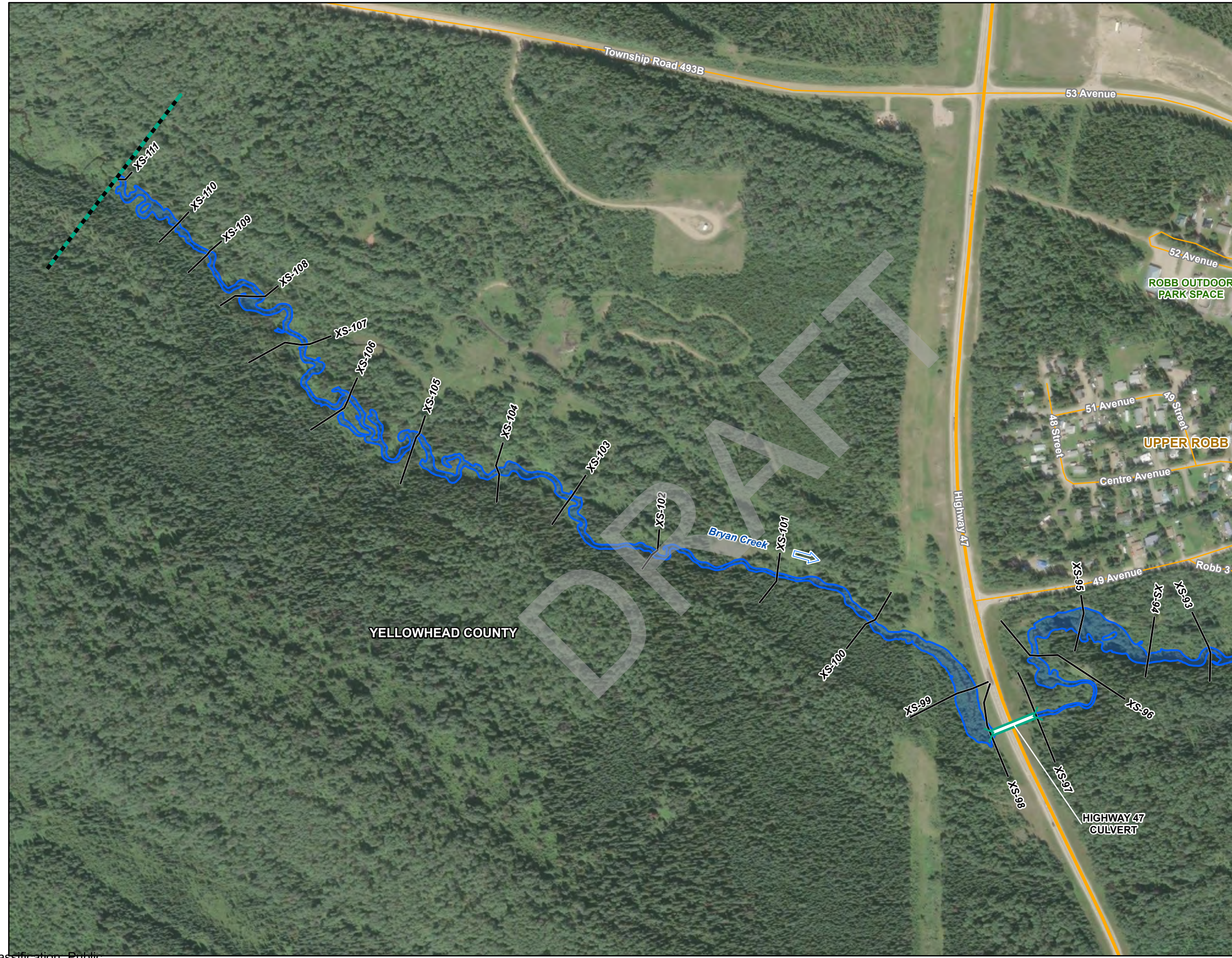
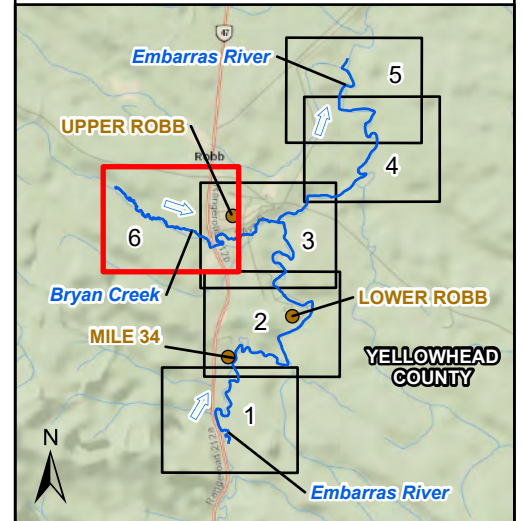


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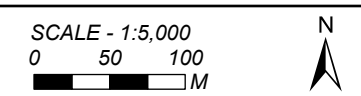
ROBB FLOOD STUDY
5-YEAR OPEN WATER
FLOOD INUNDATION MAP



SHEET 3 ↑

- MAJOR HIGHWAY
- LOCAL ROAD
- + RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- ➔ FLOW DIRECTION
- 5-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
BRYAN CREEK = 7.3 m³/s



Coordinate System: NAD 1983 CSRS 3TM 117;
Vertical Datum: CGVD28 HTv2.0; Units: Metres

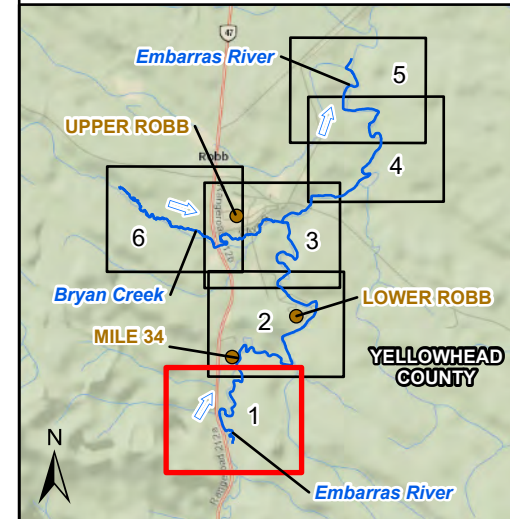
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Job Number	1009252	Date	09-JUL-2025
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ROBB FLOOD STUDY
5-YEAR OPEN WATER
FLOOD INUNDATION MAP

**10-YEAR OPEN WATER FLOOD INUNDATION MAP
(SHEETS 1 TO 6)**

DRAFT



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 10-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER ABOVE BRYAN CREEK = 36.7 m³/s

SCALE - 1:5,000
0 50 100
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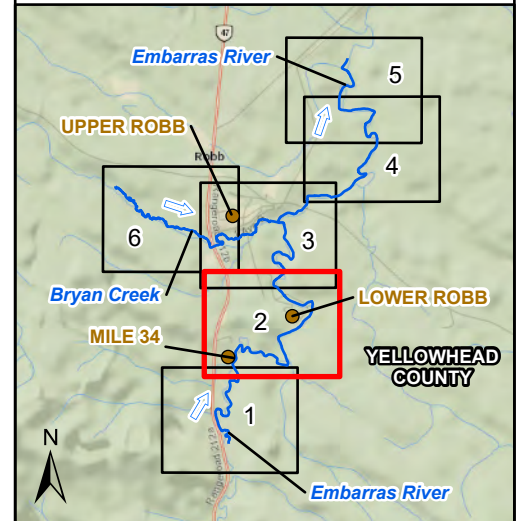
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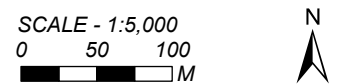
ROBB FLOOD STUDY
10-YEAR OPEN WATER
FLOOD INUNDATION MAP

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- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 10-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER ABOVE BRYAN CREEK = 36.7 m³/s

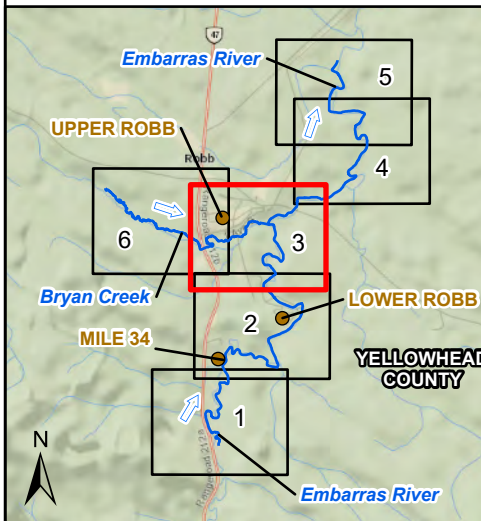
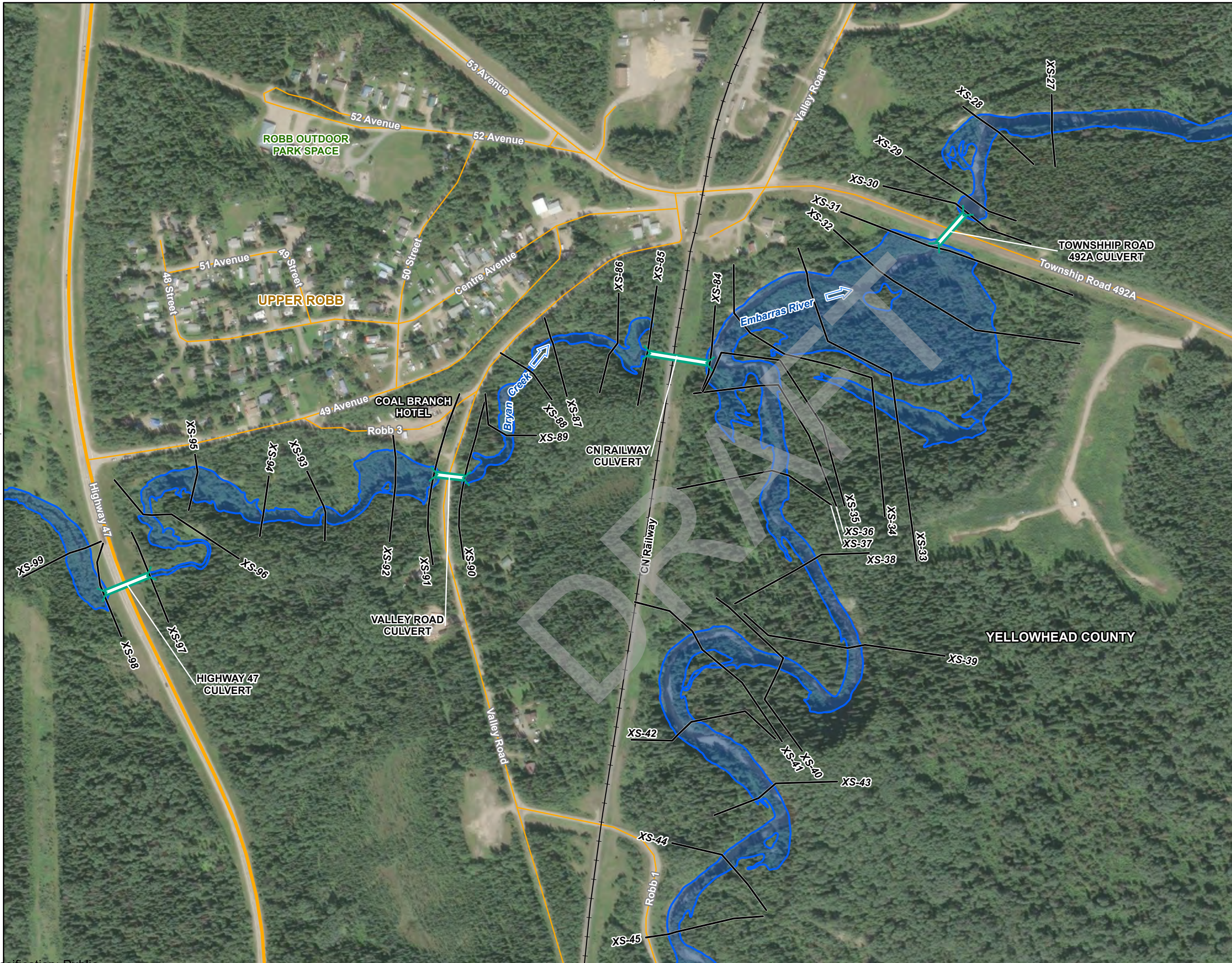


Coordinate System: NAD 1983 CSRS 3TM 117;
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Engineer	MMM	GIS	JY	Reviewer	MSN/RBA
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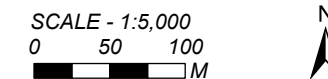
Job Number	1009252	Date	09-JUL-2025
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ROBB FLOOD STUDY
10-YEAR OPEN WATER
FLOOD INUNDATION MAP



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 10-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
 EMBARRAS RIVER ABOVE BRYAN CREEK = 36.7 m³/s
 EMBARRAS RIVER BELOW BRYAN CREEK = 47.2 m³/s
 BRYAN CREEK = 10.1 m³/s

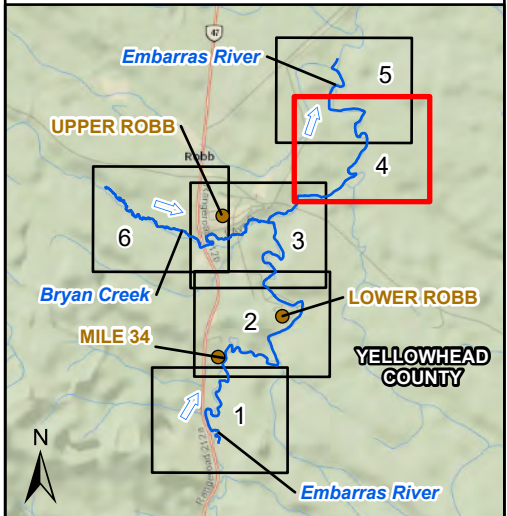


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 Vertical Datum: CGVD28 HTv2.0; Units: Metres

Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

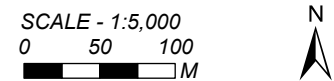
Job Number	Date
1009252	09-JUL-2025

ROBB FLOOD STUDY
10-YEAR OPEN WATER
FLOOD INUNDATION MAP



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 10-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER BELOW BRYAN CREEK = 47.2 m³/s



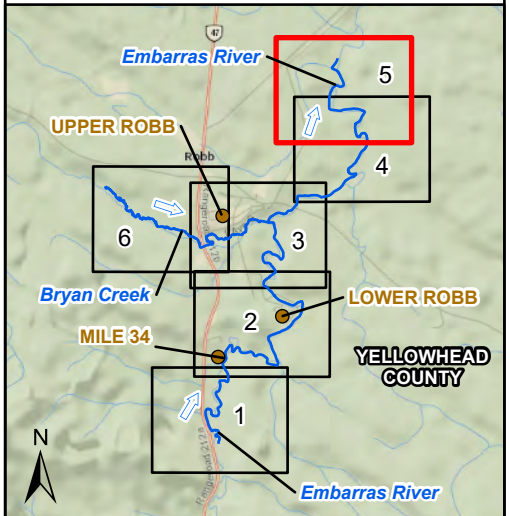
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Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

Job Number	Date
1009252	09-JUL-2025

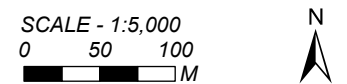
ROBB FLOOD STUDY
10-YEAR OPEN WATER
FLOOD INUNDATION MAP

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- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 10-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER BELOW BRYAN CREEK = 47.2 m³/s

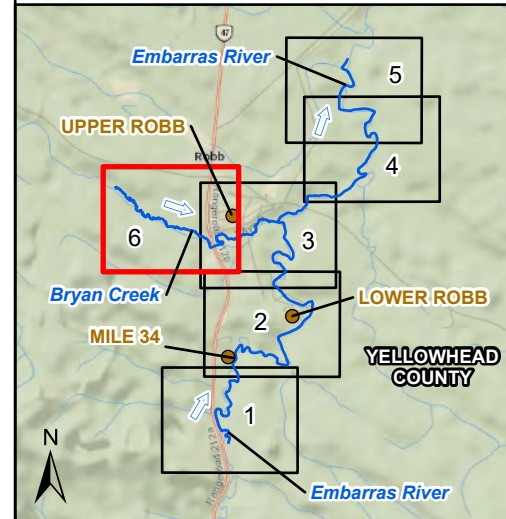


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Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

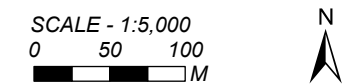
Job Number	Date
1009252	09-JUL-2025

ROBB FLOOD STUDY
10-YEAR OPEN WATER
FLOOD INUNDATION MAP



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 10-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
BRYAN CREEK = 10.1 m³/s

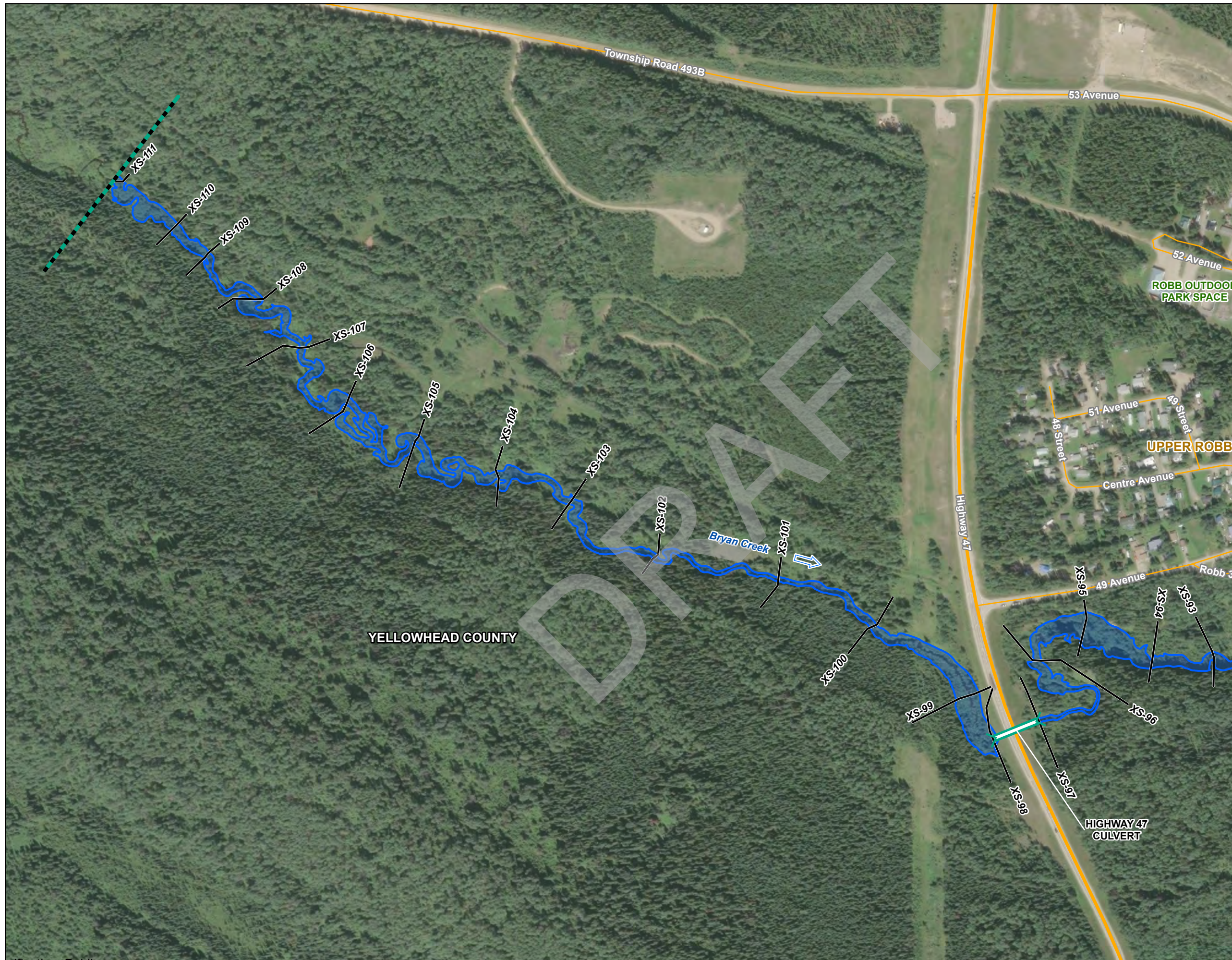


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Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

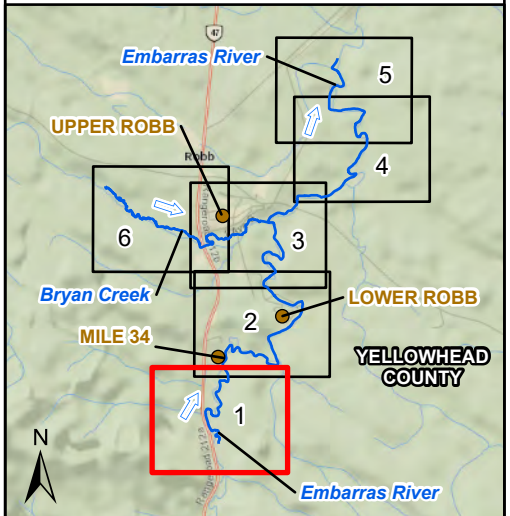
Job Number	Date
1009252	09-JUL-2025

ROBB FLOOD STUDY
10-YEAR OPEN WATER
FLOOD INUNDATION MAP



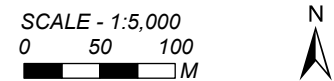
**20-YEAR OPEN WATER FLOOD INUNDATION MAP
(SHEETS 1 TO 6)**

DRAFT



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 20-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER ABOVE BRYAN CREEK = 46.8 m³/s

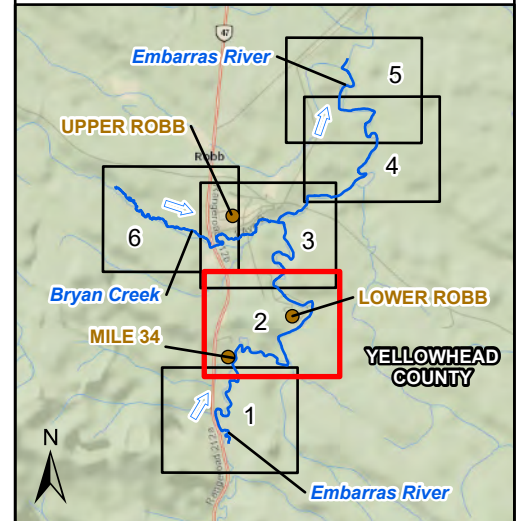


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Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

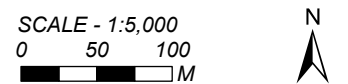
Job Number	Date
1009252	09-JUL-2025

**ROBB FLOOD STUDY
20-YEAR OPEN WATER
FLOOD INUNDATION MAP**



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 20-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER ABOVE BRYAN CREEK = 46.8 m³/s

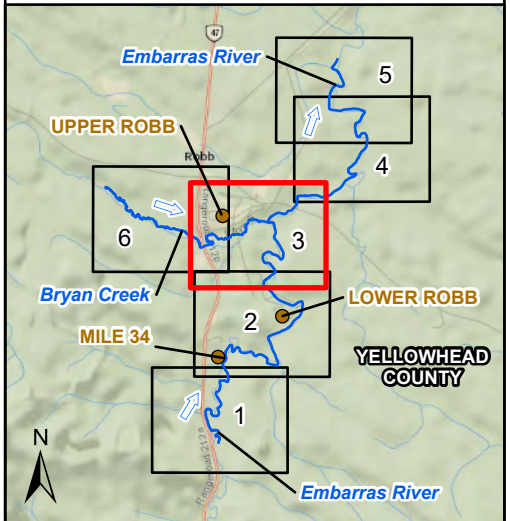
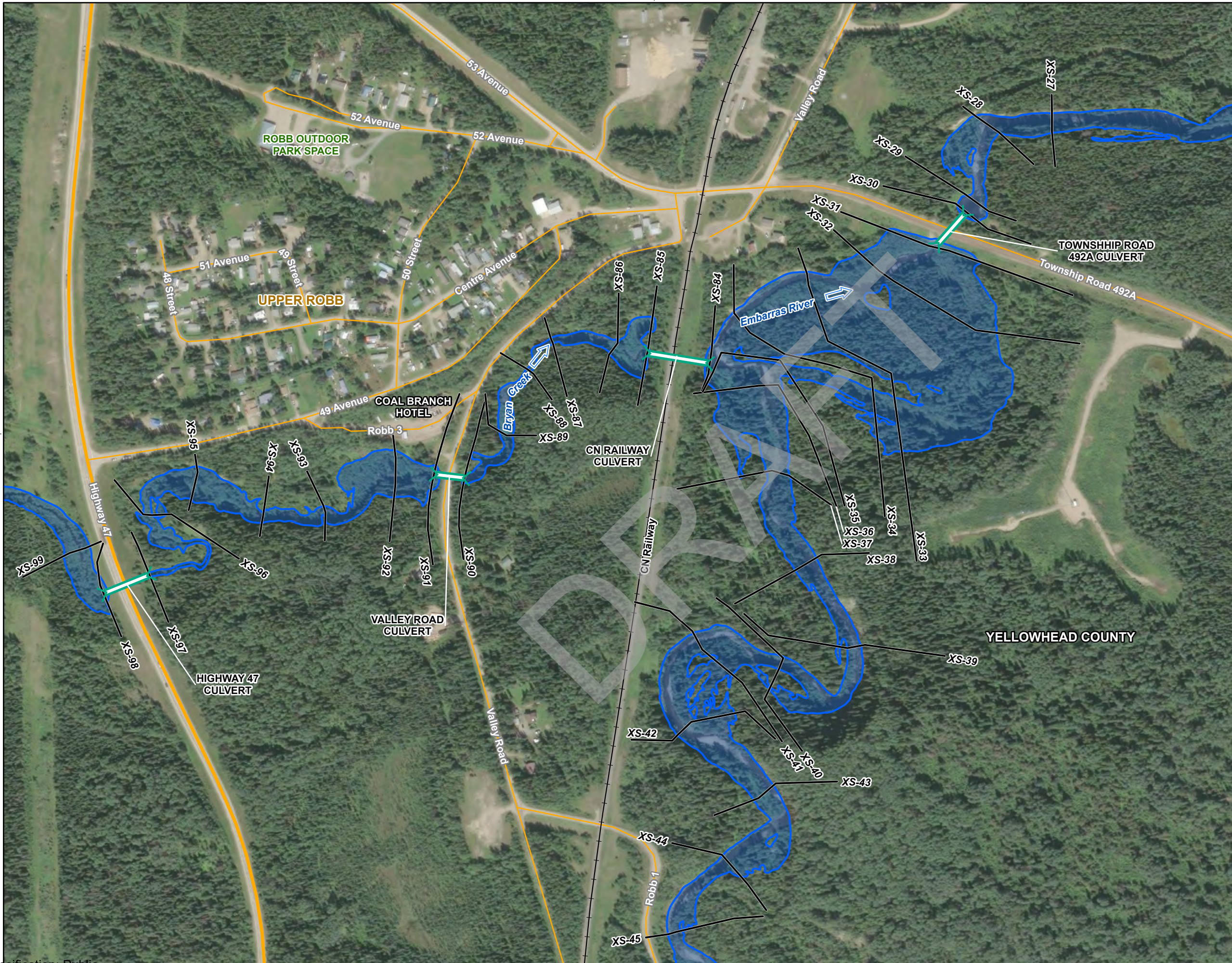


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Engineer	MMM	GIS	JY	Reviewer	MSN/RBA
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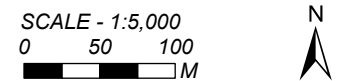
Job Number	1009252	Date	09-JUL-2025
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ROBB FLOOD STUDY
20-YEAR OPEN WATER
FLOOD INUNDATION MAP



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 20-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
 EMBARRAS RIVER ABOVE BRYAN CREEK = 46.8 m³/s
 EMBARRAS RIVER BELOW BRYAN CREEK = 60.2 m³/s
 BRYAN CREEK = 12.8 m³/s

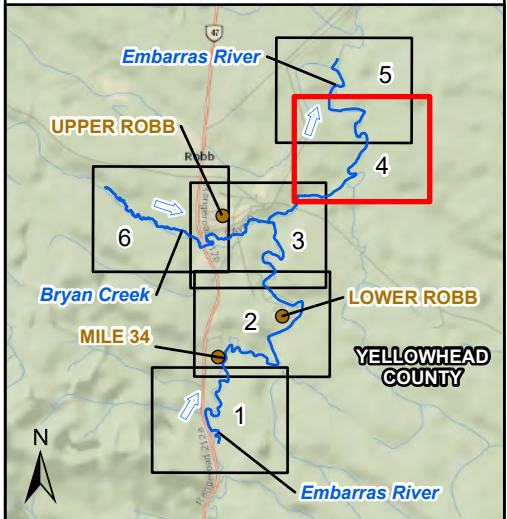


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Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

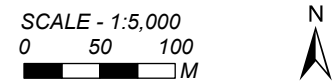
Job Number	Date
1009252	09-JUL-2025

ROBB FLOOD STUDY
20-YEAR OPEN WATER
FLOOD INUNDATION MAP



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 20-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER BELOW BRYAN CREEK = 60.2 m³/s

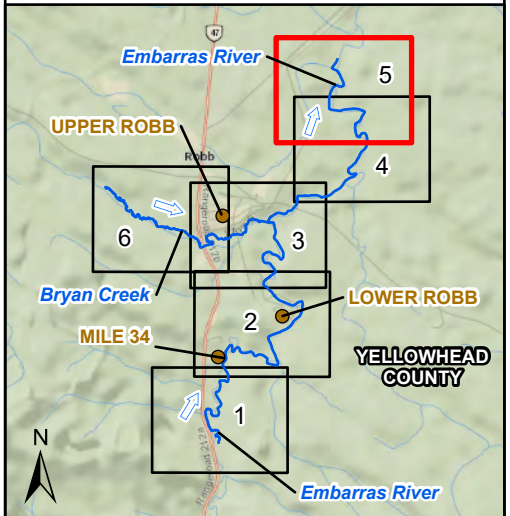
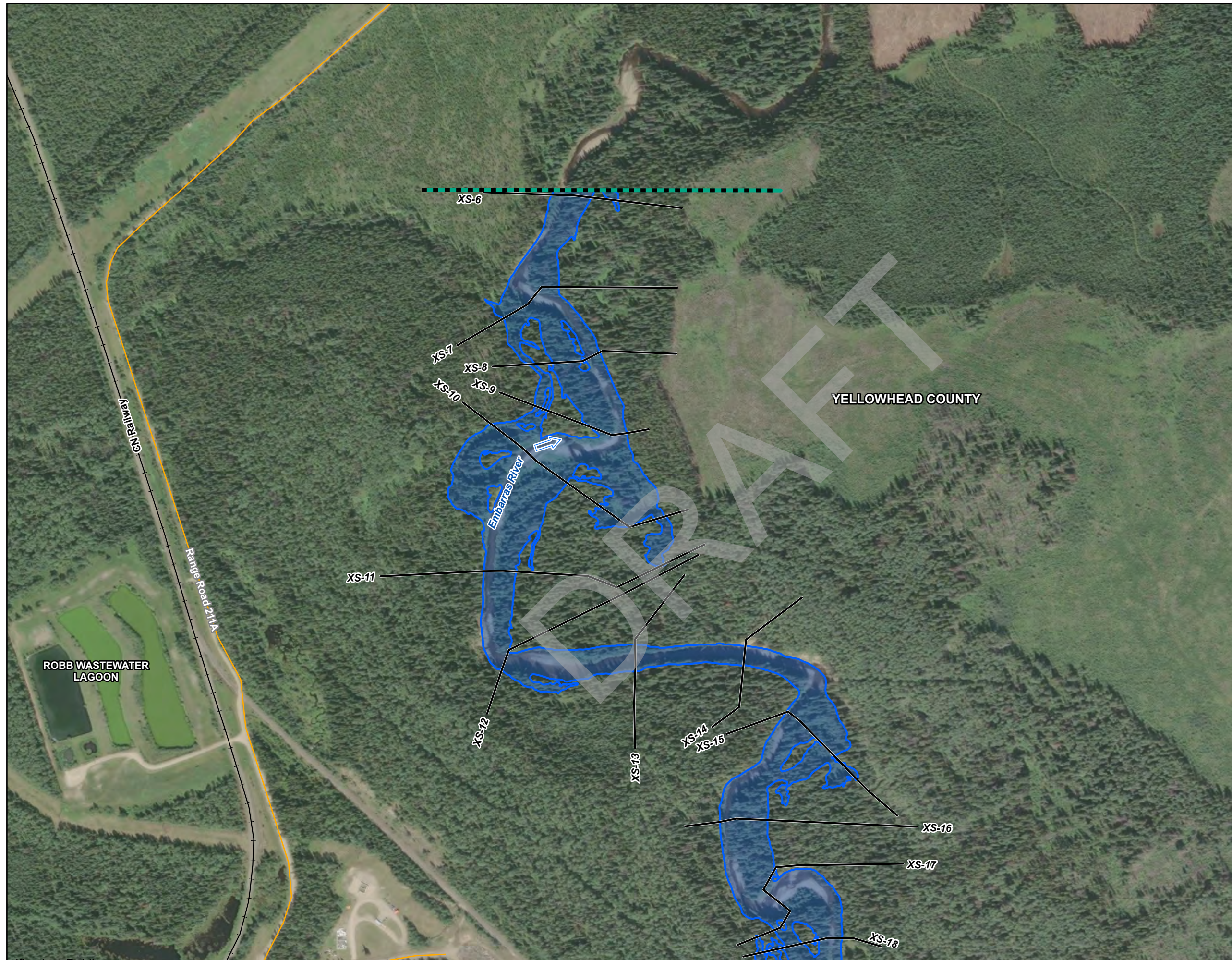


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Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

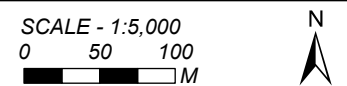
Job Number	Date
1009252	09-JUL-2025

ROBB FLOOD STUDY
20-YEAR OPEN WATER
FLOOD INUNDATION MAP



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 20-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER BELOW BRYAN CREEK = 60.2 m³/s



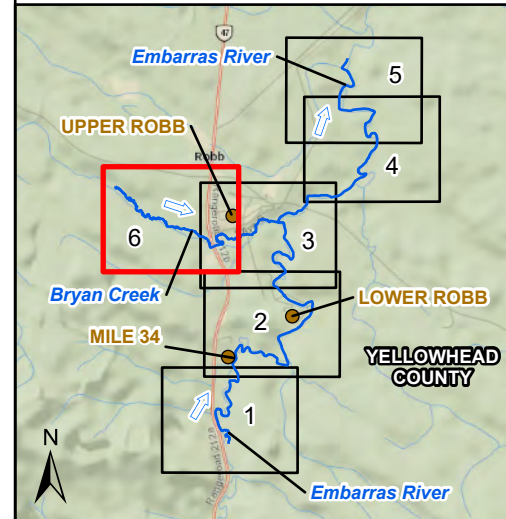
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Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

Job Number	Date
1009252	09-JUL-2025

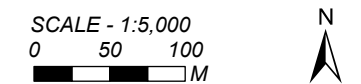
ROBB FLOOD STUDY
20-YEAR OPEN WATER
FLOOD INUNDATION MAP

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- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 20-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
BRYAN CREEK = 12.8 m³/s

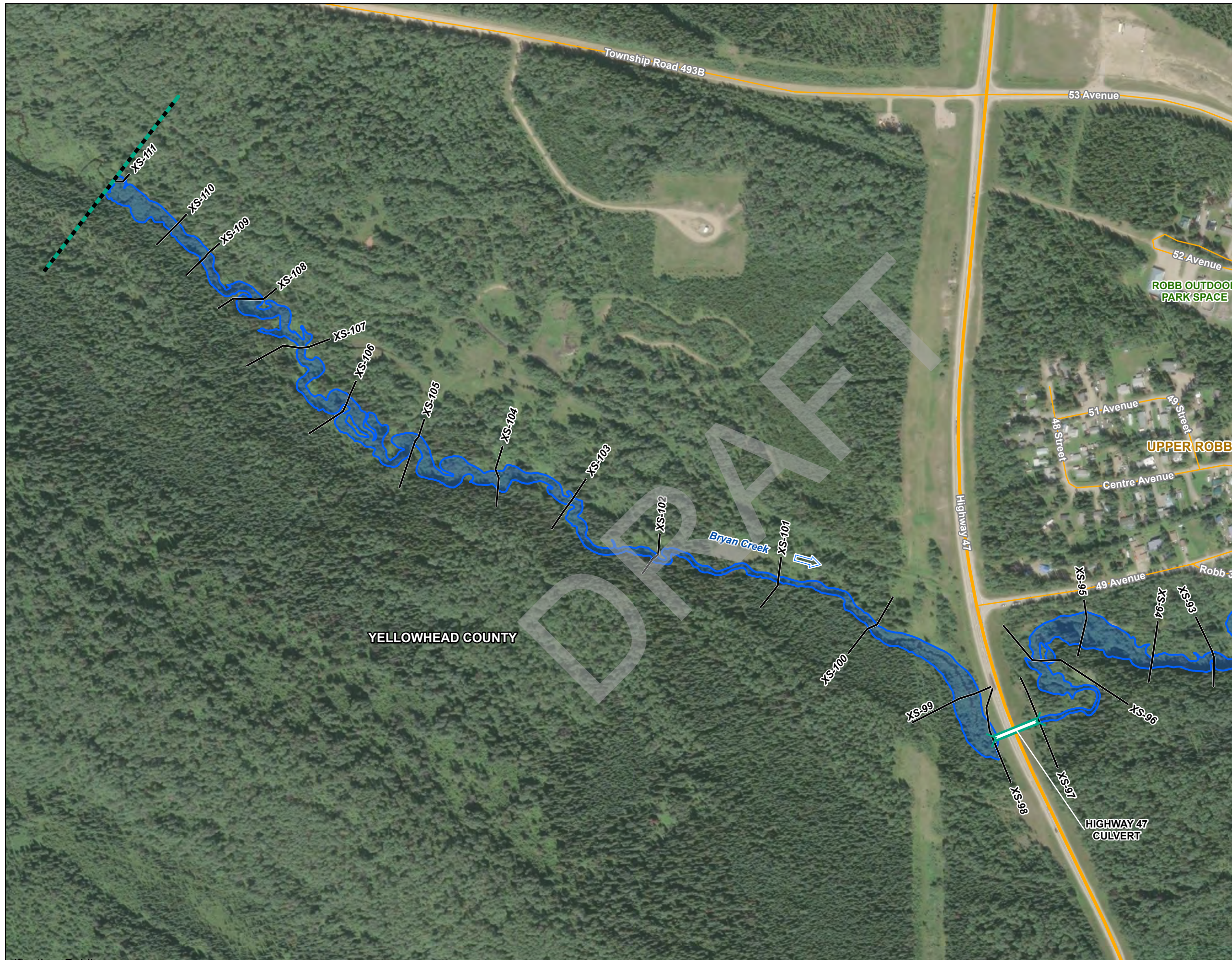


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Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

Job Number	Date
1009252	09-JUL-2025

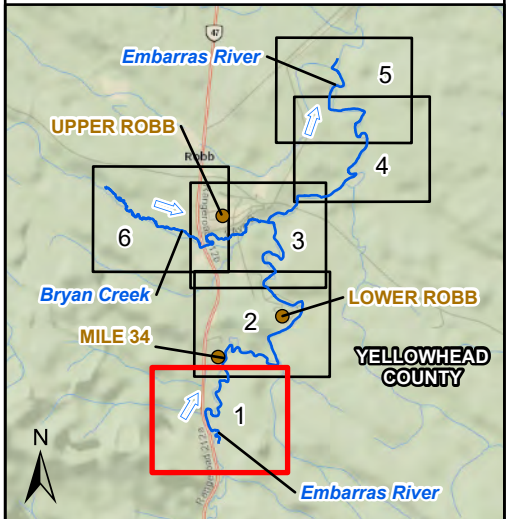
**ROBB FLOOD STUDY
20-YEAR OPEN WATER
FLOOD INUNDATION MAP**



35-YEAR OPEN WATER FLOOD INUNDATION MAP

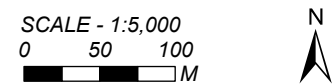
(SHEETS 1 TO 6)

DRAFT



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 35-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER ABOVE BRYAN CREEK = 55.0 m³/s

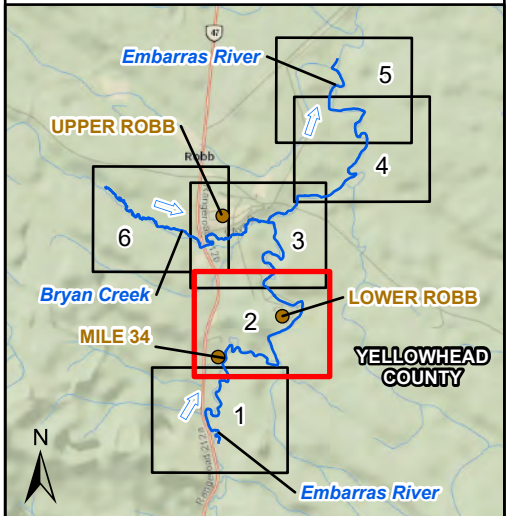


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Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

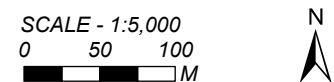
Job Number	Date
1009252	09-JUL-2025

ROBB FLOOD STUDY
35-YEAR OPEN WATER
FLOOD INUNDATION MAP



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 35-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER ABOVE BRYAN CREEK = 55.0 m³/s

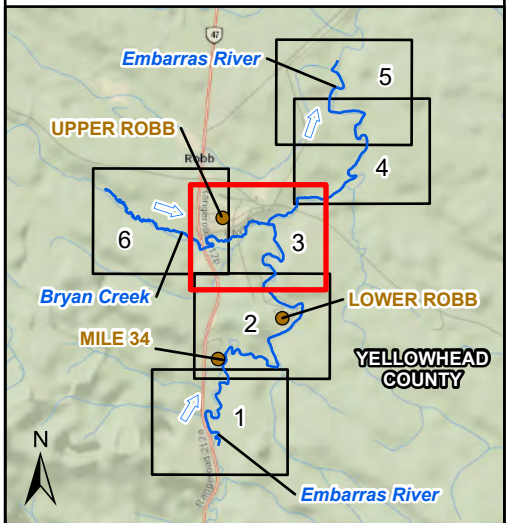
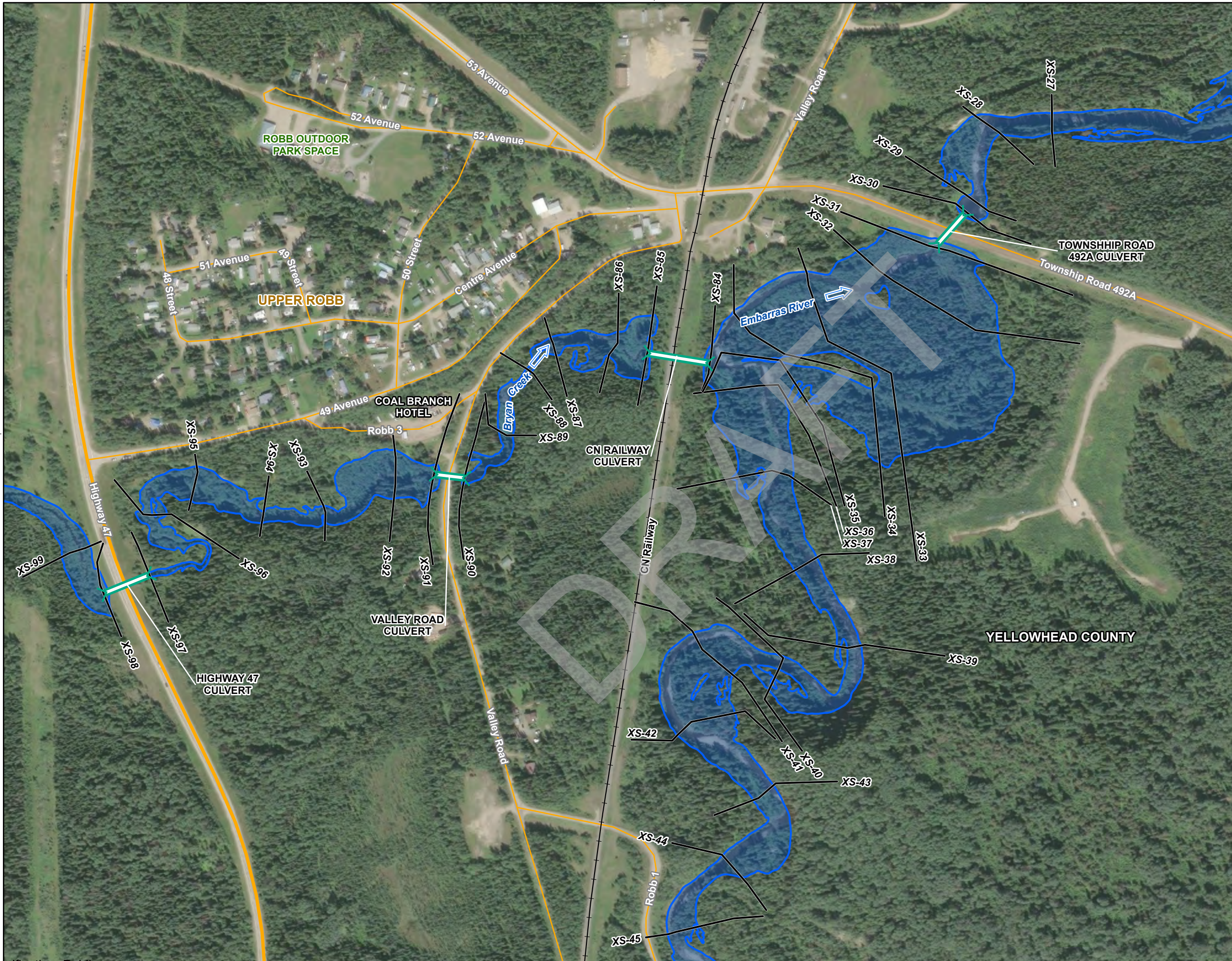


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Engineer	MMM	GIS	JY	Reviewer	MSN/RBA
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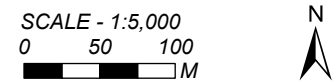
Job Number	1009252	Date	09-JUL-2025
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ROBB FLOOD STUDY
35-YEAR OPEN WATER
FLOOD INUNDATION MAP



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 35-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
 EMBARRAS RIVER ABOVE BRYAN CREEK = 55.0 m³/s
 EMBARRAS RIVER BELOW BRYAN CREEK = 70.7 m³/s
 BRYAN CREEK = 15.1 m³/s

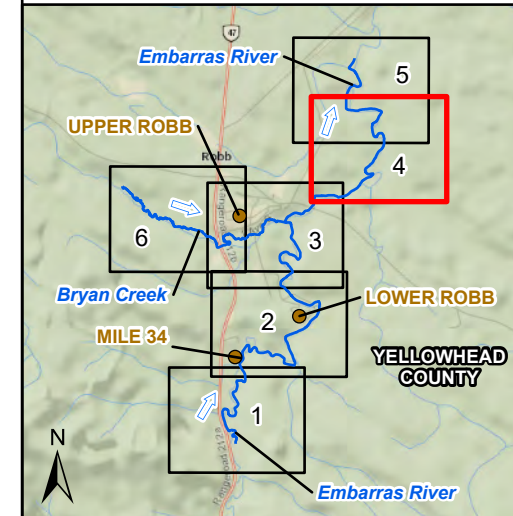


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Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

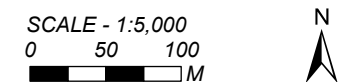
Job Number	Date
1009252	09-JUL-2025

ROBB FLOOD STUDY
35-YEAR OPEN WATER
FLOOD INUNDATION MAP



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 35-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER BELOW BRYAN CREEK = 70.7 m³/s

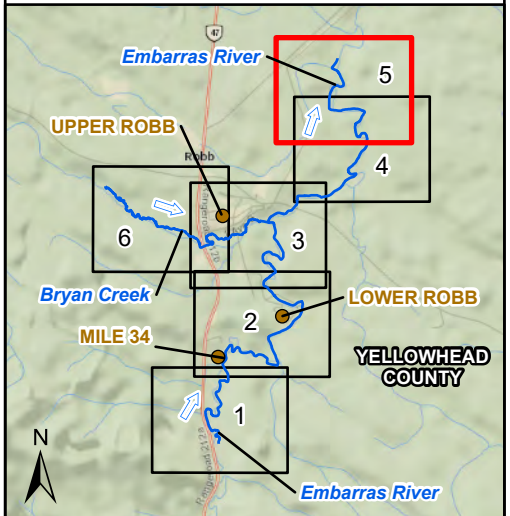


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Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

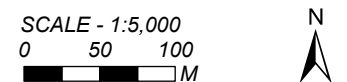
Job Number	Date
1009252	09-JUL-2025

ROBB FLOOD STUDY
35-YEAR OPEN WATER
FLOOD INUNDATION MAP



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 35-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER BELOW BRYAN CREEK = 70.7 m³/s

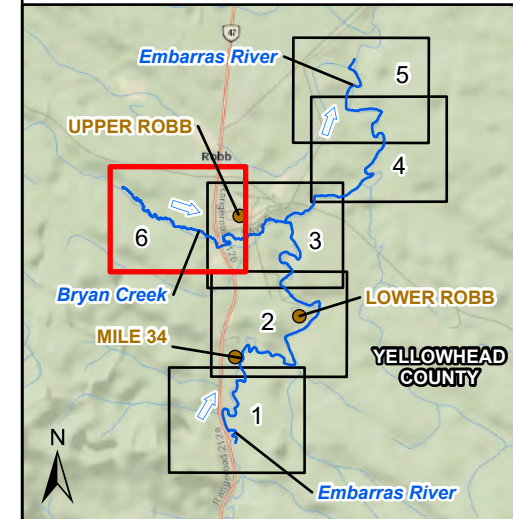


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Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

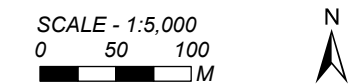
Job Number	Date
1009252	09-JUL-2025

ROBB FLOOD STUDY
35-YEAR OPEN WATER
FLOOD INUNDATION MAP



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 35-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
BRYAN CREEK = 15.1 m³/s

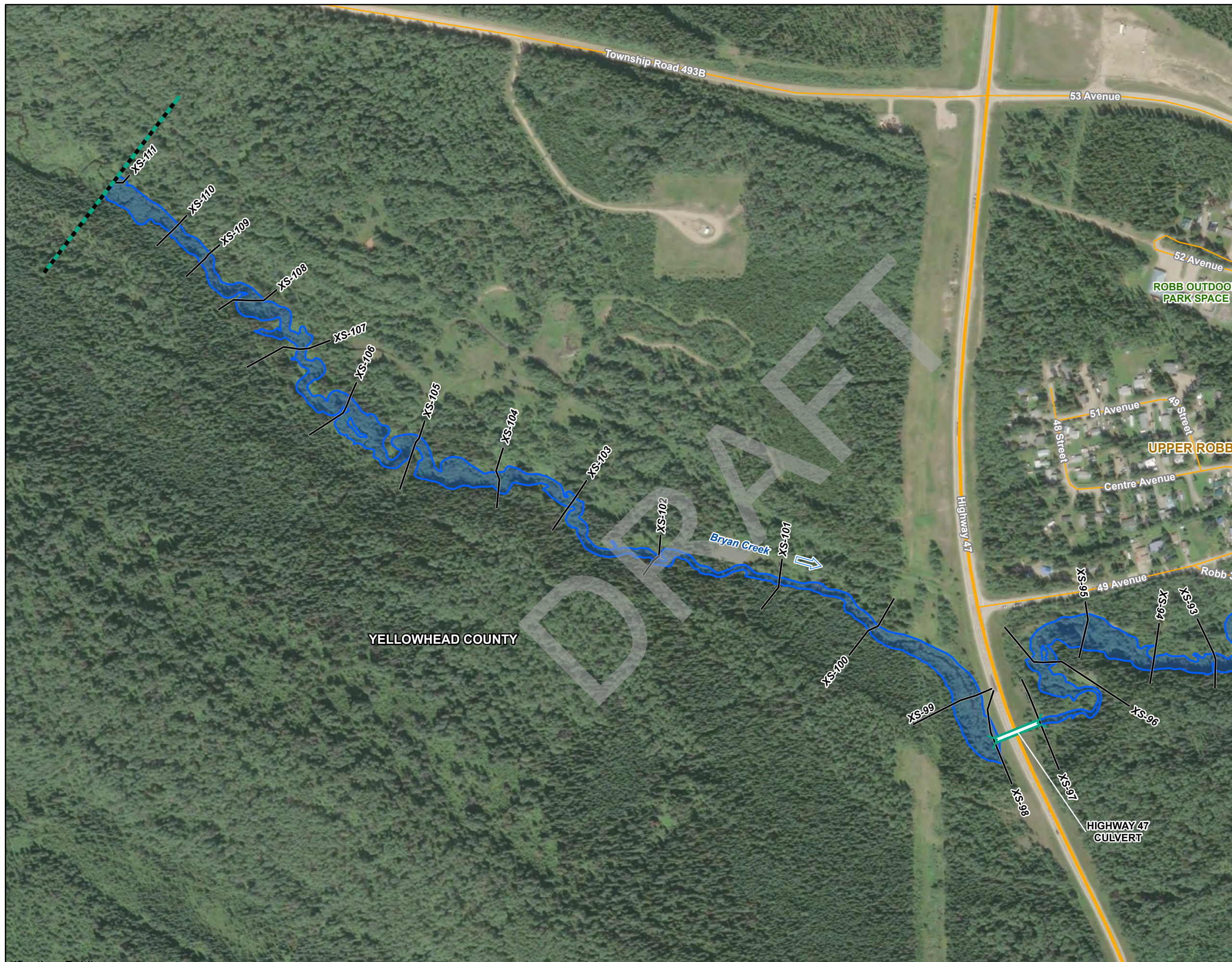


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Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

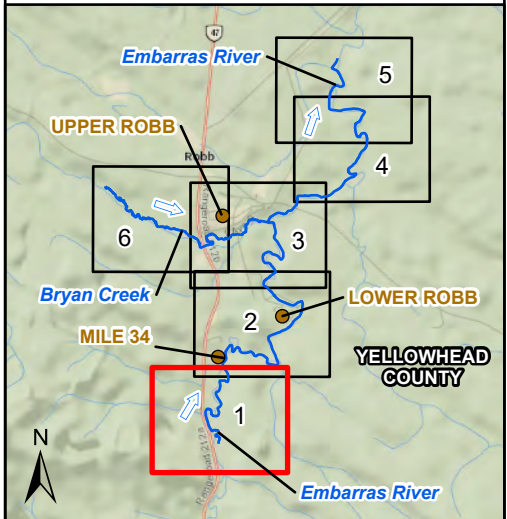
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**ROBB FLOOD STUDY
35-YEAR OPEN WATER
FLOOD INUNDATION MAP**



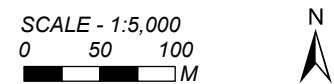
**50-YEAR OPEN WATER FLOOD INUNDATION MAP
(SHEETS 1 TO 6)**

DRAFT



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 50-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER ABOVE BRYAN CREEK = 60.1 m³/s

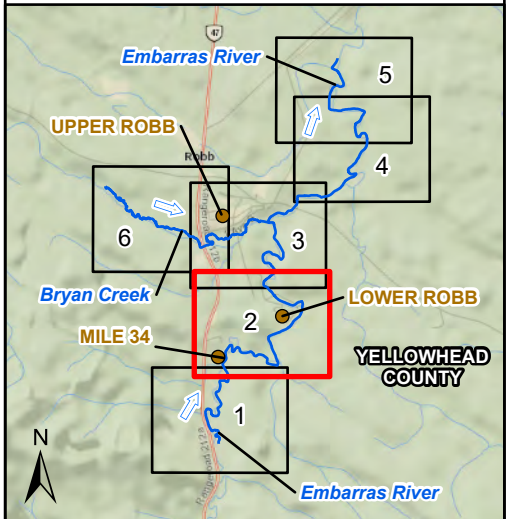


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Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

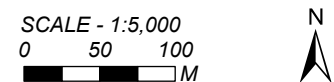
Job Number	Date
1009252	09-JUL-2025

ROBB FLOOD STUDY
50-YEAR OPEN WATER
FLOOD INUNDATION MAP



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 50-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER ABOVE BRYAN CREEK = 60.1 m³/s

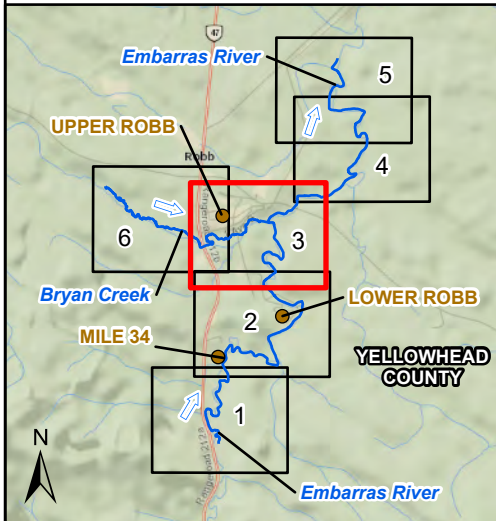
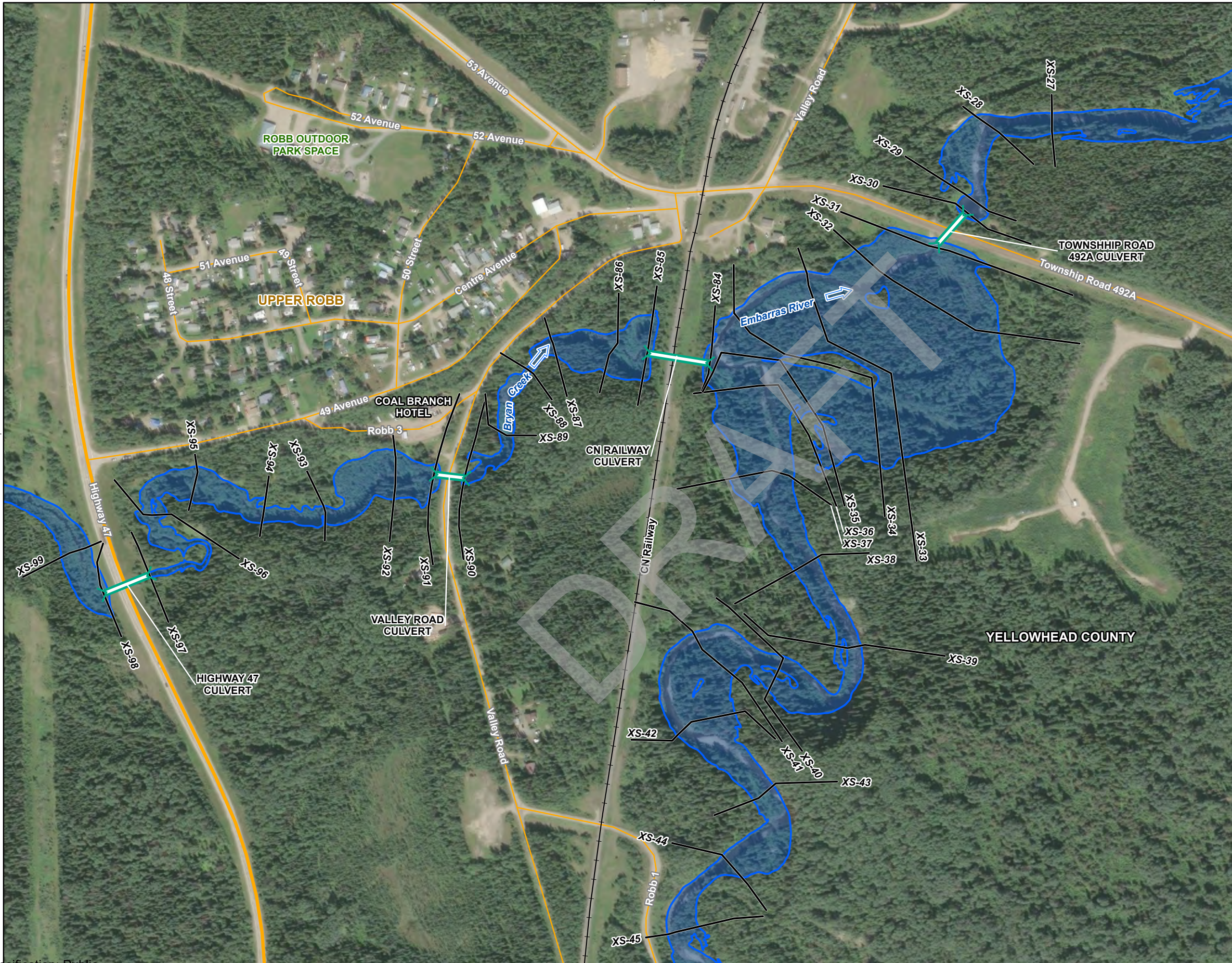


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Engineer	MMM	GIS	JY	Reviewer	MSN/RBA
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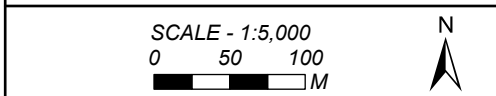
Job Number	1009252	Date	09-JUL-2025
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ROBB FLOOD STUDY
50-YEAR OPEN WATER
FLOOD INUNDATION MAP



- MAJOR HIGHWAY
- LOCAL ROAD
- + RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- ➔ FLOW DIRECTION
- 50-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
 EMBARRAS RIVER ABOVE BRYAN CREEK = 60.1 m³/s
 EMBARRAS RIVER BELOW BRYAN CREEK = 77.2 m³/s
 BRYAN CREEK = 16.5 m³/s



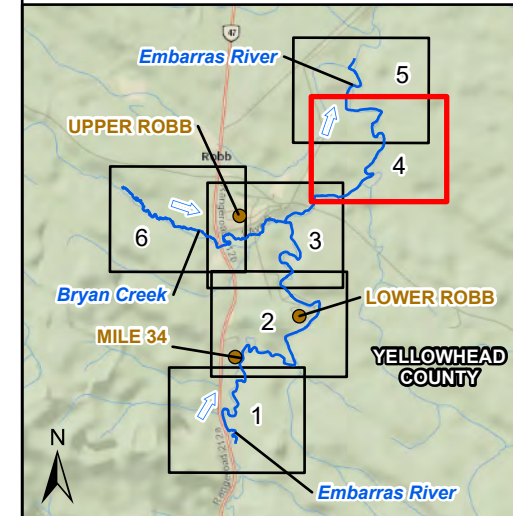
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 Vertical Datum: CGVD28 HTv2.0; Units: Metres

Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

Job Number	Date
1009252	09-JUL-2025

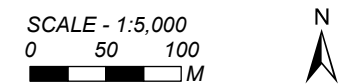
ROBB FLOOD STUDY
50-YEAR OPEN WATER
FLOOD INUNDATION MAP

J:_P\Projects (Active)\1009252 Robb Flood Study\90_GIS\FLOOD_MAPPING\ROBB FS FLOOD INUNDATION MAPPING.aprx



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 50-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER BELOW BRYAN CREEK = 77.2 m³/s

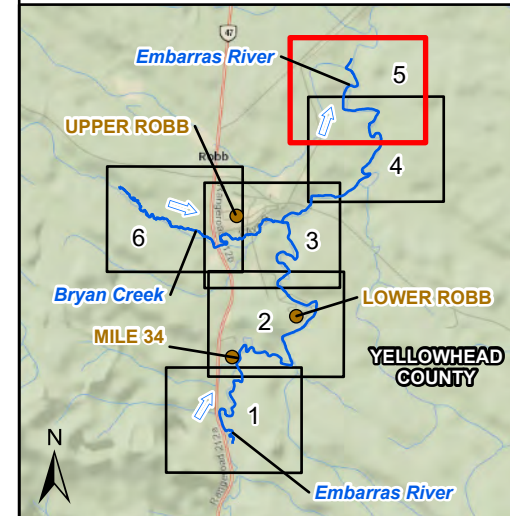


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Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

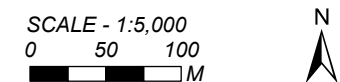
Job Number	Date
1009252	09-JUL-2025

ROBB FLOOD STUDY
50-YEAR OPEN WATER
FLOOD INUNDATION MAP



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 50-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER BELOW BRYAN CREEK = 77.2 m³/s



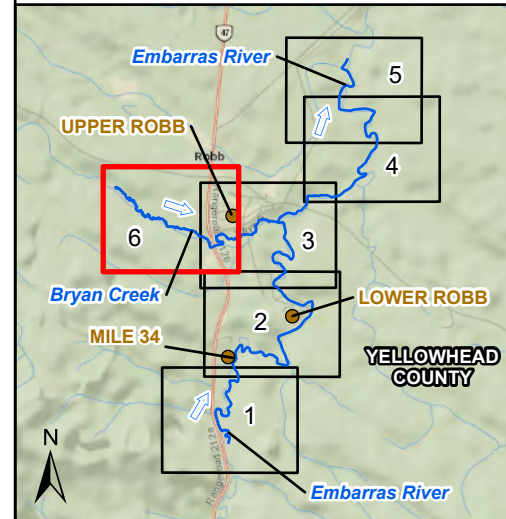
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Engineer	MMM	GIS	JY	Reviewer	MSN/RBA
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Job Number	1009252	Date	09-JUL-2025
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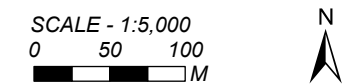
ROBB FLOOD STUDY
50-YEAR OPEN WATER
FLOOD INUNDATION MAP

J:\Projects (Active)\1009252 Robb Flood Study\90_GIS\FLOOD_MAPPING\ROBB FS FLOOD INUNDATION MAPPING.aprx



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 50-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
BRYAN CREEK = 16.5 m³/s

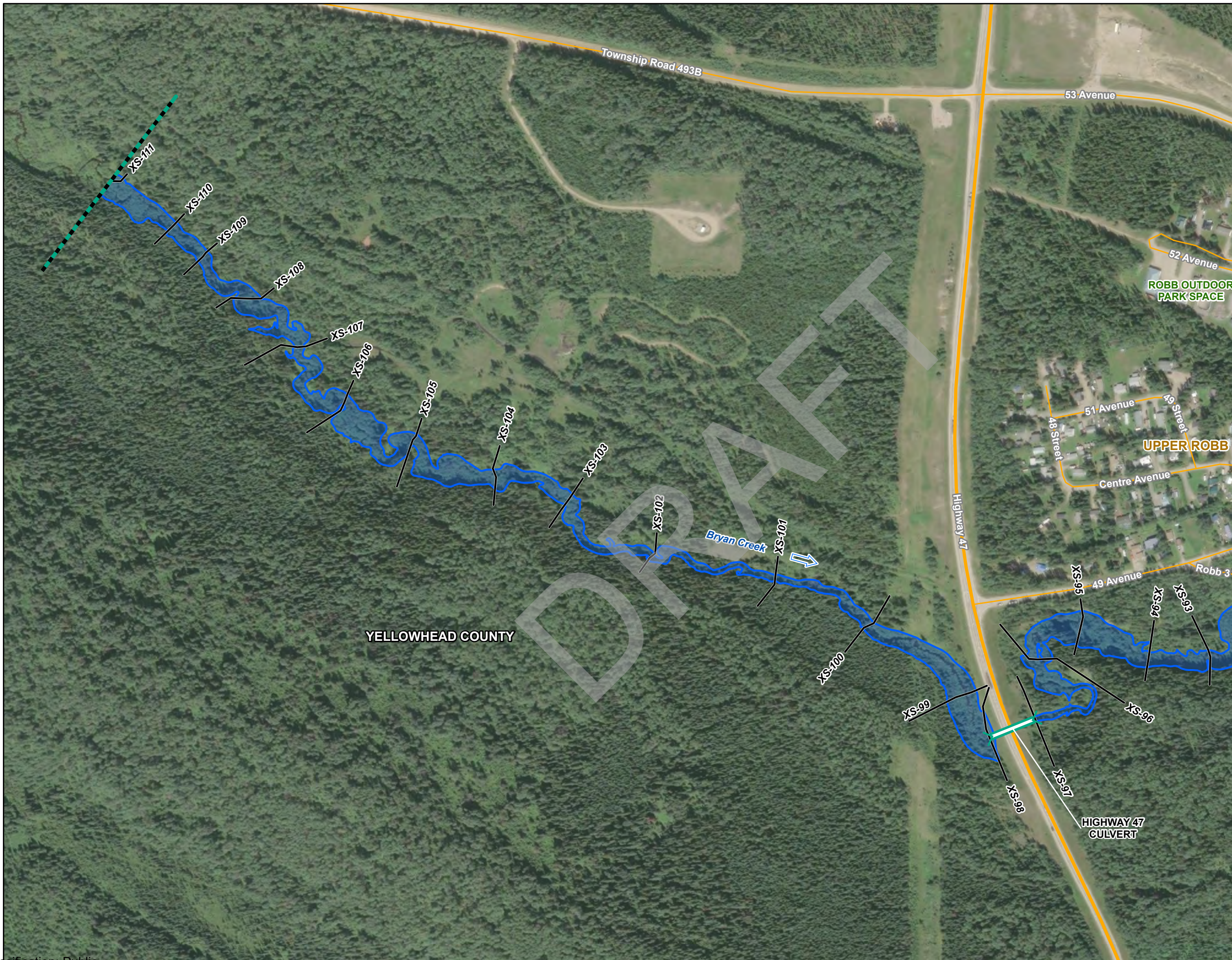


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Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

Job Number	Date
1009252	09-JUL-2025

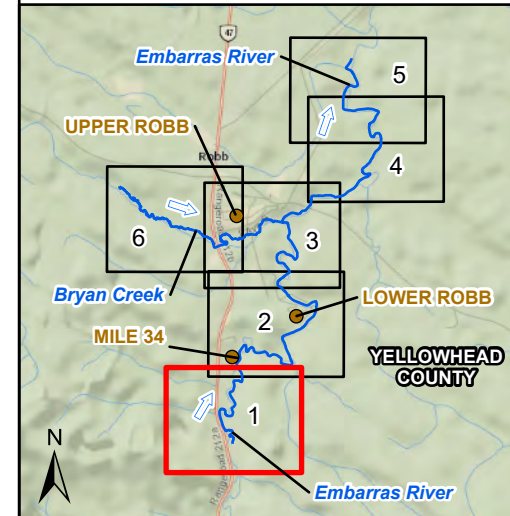
ROBB FLOOD STUDY
50-YEAR OPEN WATER
FLOOD INUNDATION MAP



J:_P\Projects (Active)\1009252 Robb Flood Study\90_GIS\FLOOD_MAPPING\ROBB FS FLOOD INUNDATION MAPPING.aprx

**75-YEAR OPEN WATER FLOOD INUNDATION MAP
(SHEETS 1 TO 6)**

DRAFT



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 75-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER ABOVE BRYAN CREEK = 66.0 m³/s

SCALE - 1:5,000
0 50 100
M



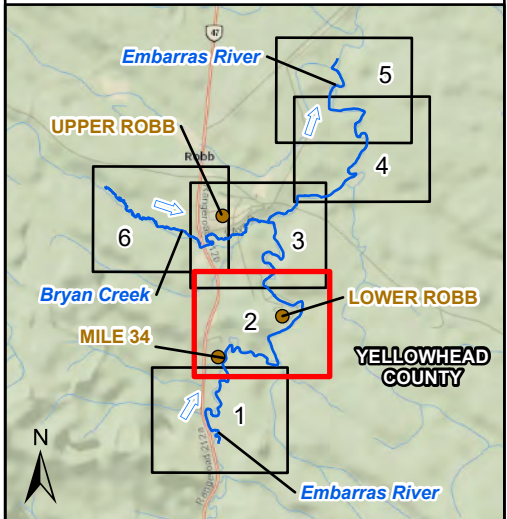
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Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

Job Number	Date
1009252	09-JUL-2025

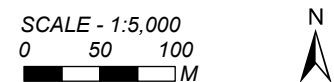
ROBB FLOOD STUDY
75-YEAR OPEN WATER
FLOOD INUNDATION MAP

JY: P:\Projects (Active)\1009252 Robb Flood Study\90_GIS\FLOOD_MAPPING\ROBB FS FLOOD INUNDATION MAPPING.aprx



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 75-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER ABOVE BRYAN CREEK = 66.0 m³/s



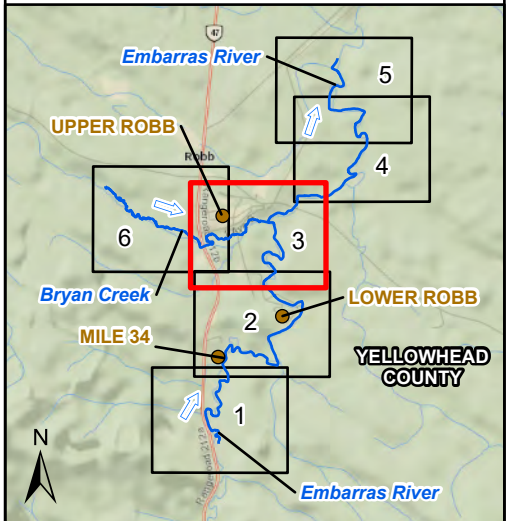
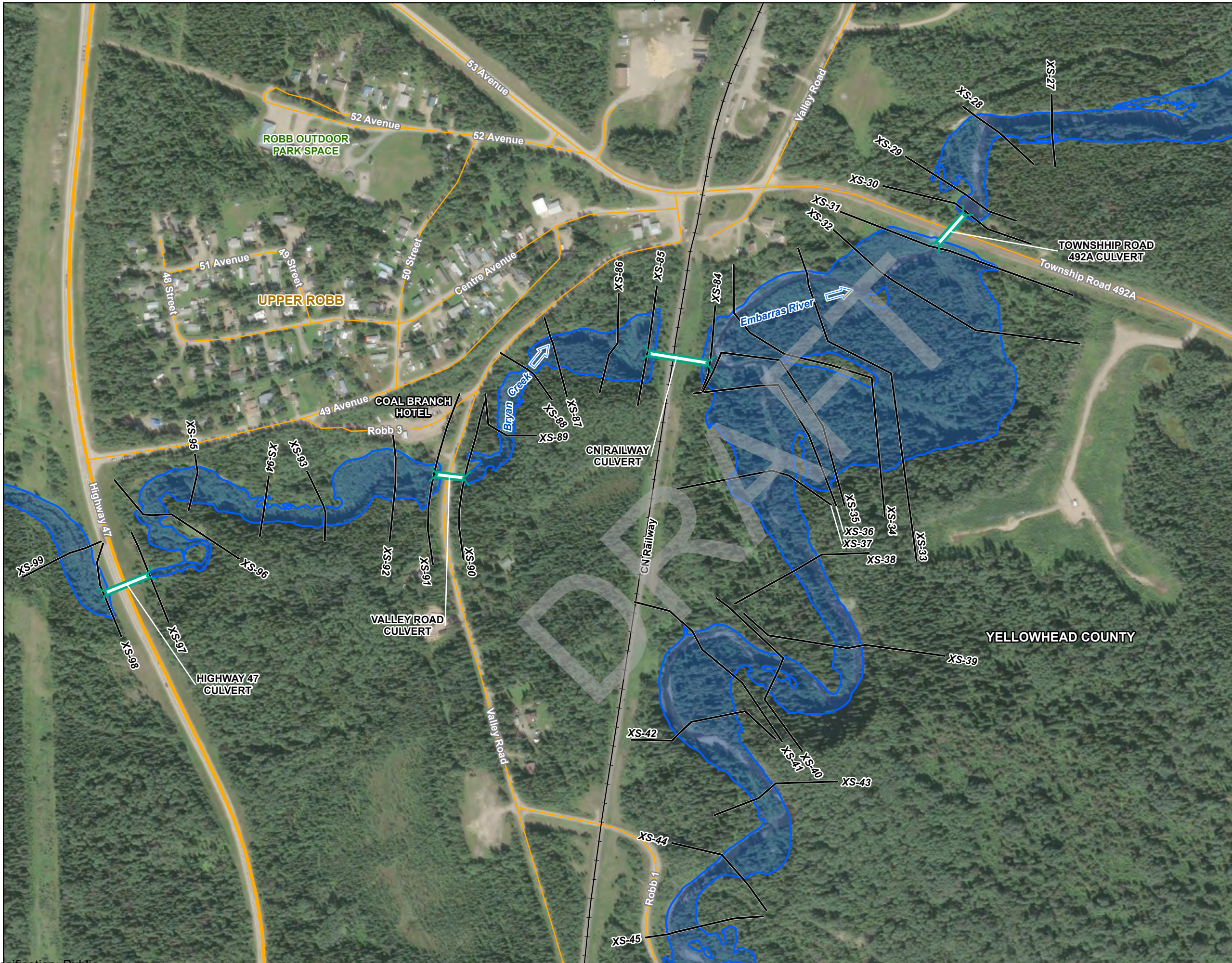
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Engineer	MMM	GIS	JY	Reviewer	MSN/RBA
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Job Number	1009252	Date	09-JUL-2025
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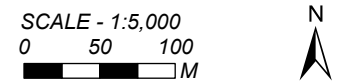
ROBB FLOOD STUDY
75-YEAR OPEN WATER
FLOOD INUNDATION MAP

J:_P\Projects (Active)\1009252 Robb Flood Study\90_GIS\FLOOD_MAPPING\ROBB FS FLOOD INUNDATION MAPPING.aprx



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 75-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
 EMBARRAS RIVER ABOVE BRYAN CREEK = 66.0 m³/s
 EMBARRAS RIVER BELOW BRYAN CREEK = 84.9 m³/s
 BRYAN CREEK = 18.1 m³/s

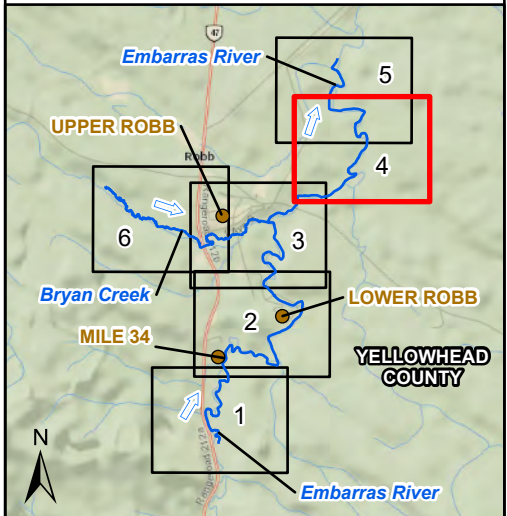


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Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

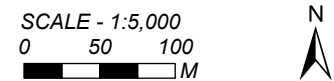
Job Number	Date
1009252	09-JUL-2025

ROBB FLOOD STUDY
75-YEAR OPEN WATER
FLOOD INUNDATION MAP



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 75-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER BELOW BRYAN CREEK = 84.9 m³/s



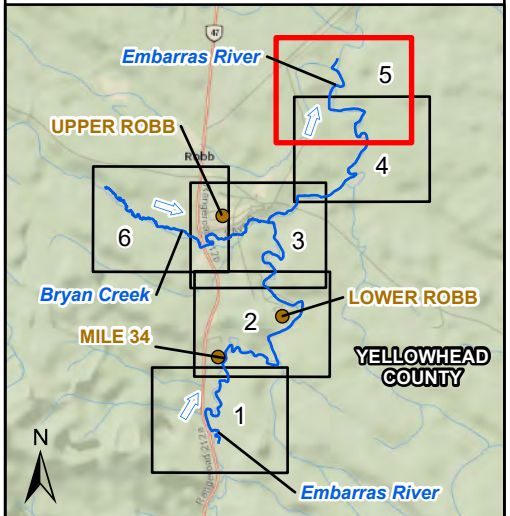
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Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

Job Number	Date
1009252	09-JUL-2025

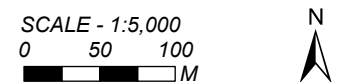
ROBB FLOOD STUDY
75-YEAR OPEN WATER
FLOOD INUNDATION MAP

J:_P\Projects (Active)\1009252 Robb Flood Study\90_GIS\FLOOD_MAPPING\ROBB FS FLOOD INUNDATION MAP\MAPPING.aprx



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
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- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 75-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER BELOW BRYAN CREEK = 84.9 m³/s

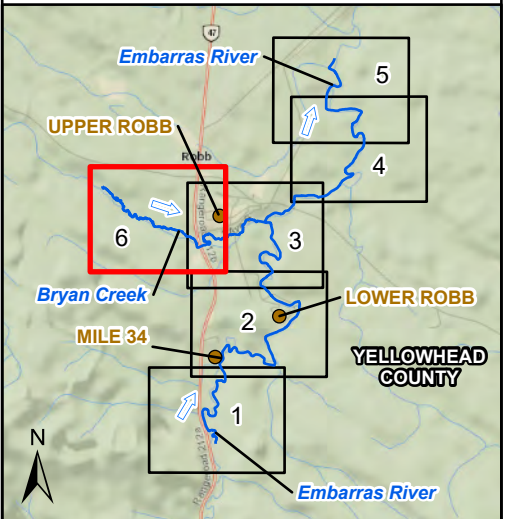


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MMM	JY	MSN/RBA

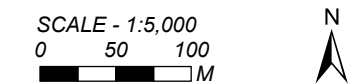
Job Number	Date
1009252	09-JUL-2025

ROBB FLOOD STUDY
75-YEAR OPEN WATER
FLOOD INUNDATION MAP



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 75-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
BRYAN CREEK = 18.1 m³/s

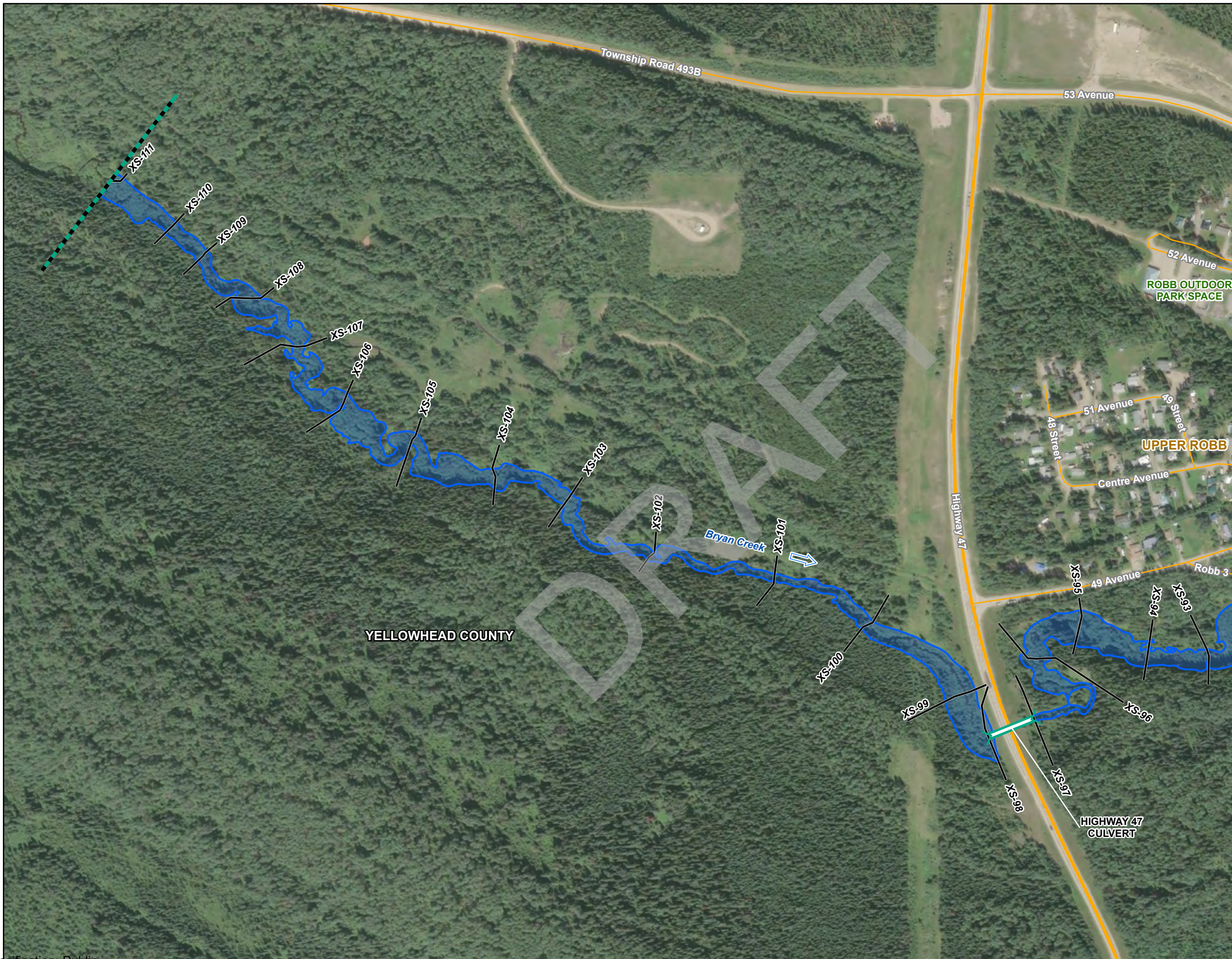


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Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

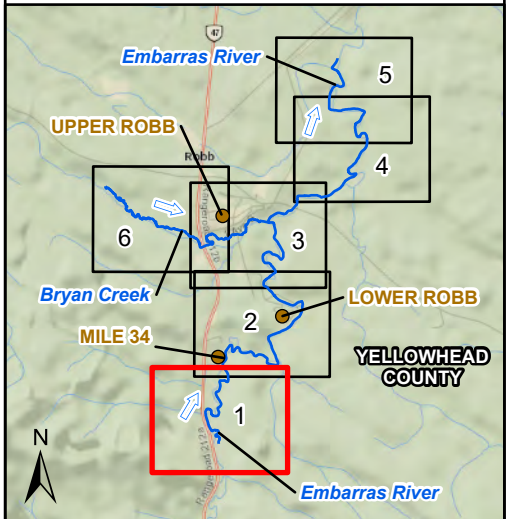
Job Number	Date
1009252	09-JUL-2025

ROBB FLOOD STUDY
75-YEAR OPEN WATER
FLOOD INUNDATION MAP



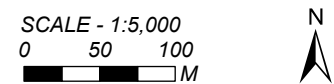
**100-YEAR OPEN WATER FLOOD INUNDATION MAP
(SHEETS 1 TO 6)**

DRAFT



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 100-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER ABOVE BRYAN CREEK = 70.0 m³/s

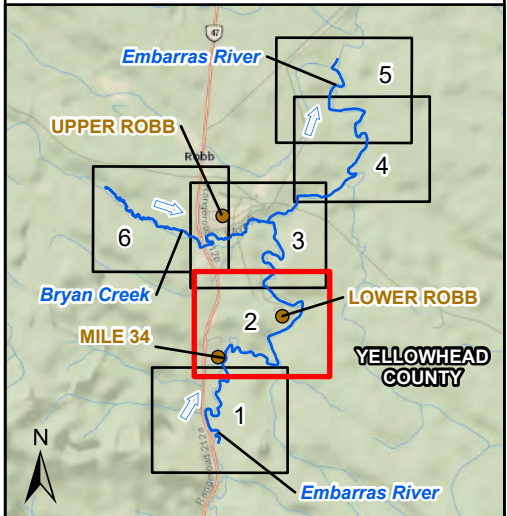


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Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

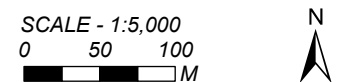
Job Number	Date
1009252	14-JUL-2025

ROBB FLOOD STUDY
100-YEAR OPEN WATER
FLOOD INUNDATION MAP



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 100-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER ABOVE BRYAN CREEK = 70.0 m³/s

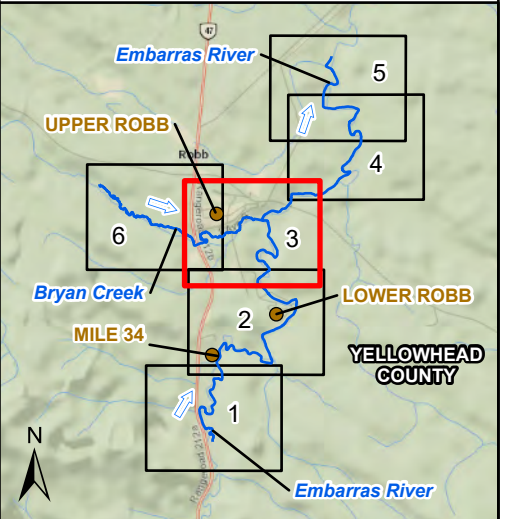
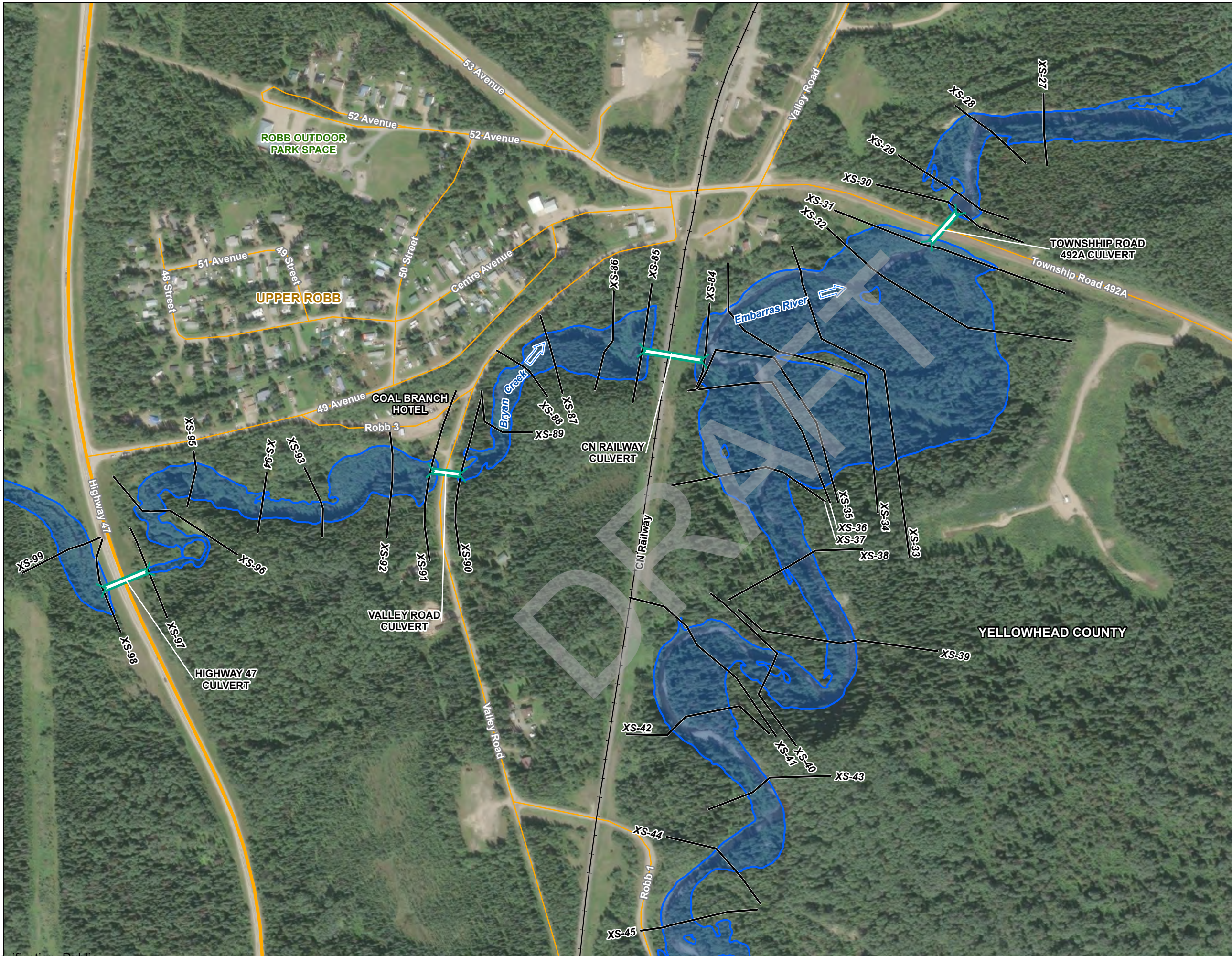


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Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

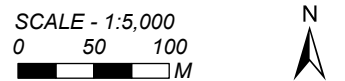
Job Number	Date
1009252	14-JUL-2025

ROBB FLOOD STUDY
100-YEAR OPEN WATER
FLOOD INUNDATION MAP



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 100-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
 EMBARRAS RIVER ABOVE BRYAN CREEK = 70.0 m³/s
 EMBARRAS RIVER BELOW BRYAN CREEK = 90.0 m³/s
 BRYAN CREEK = 19.2 m³/s

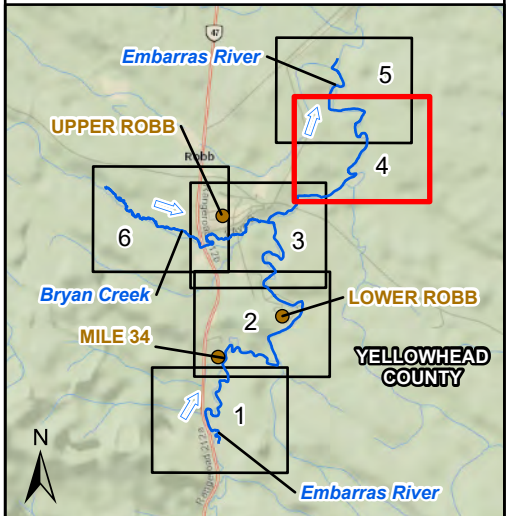


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Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

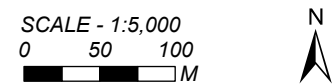
Job Number	Date
1009252	14-JUL-2025

ROBB FLOOD STUDY
100-YEAR OPEN WATER
FLOOD INUNDATION MAP



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 100-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER BELOW BRYAN CREEK = 90.0 m³/s



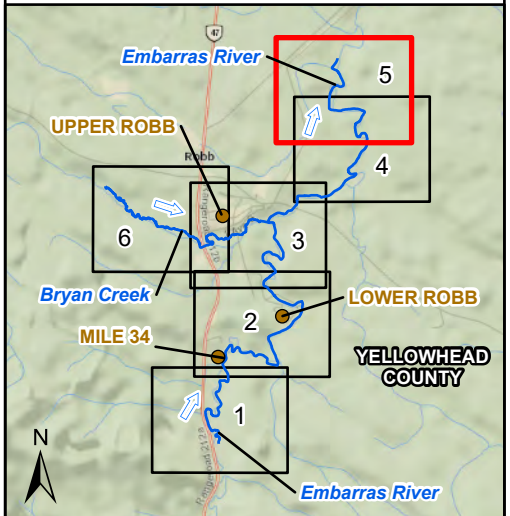
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Engineer	GIS	Reviewer
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Job Number	Date
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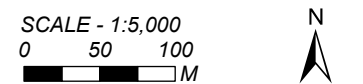
ROBB FLOOD STUDY
100-YEAR OPEN WATER
FLOOD INUNDATION MAP

J:_P\Projects (Active)\1009252 Robb Flood Study\90_GIS\FLOOD_MAPPING\ROBB FS FLOOD INUNDATION MAP\MAPPING.aprx



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 100-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
 EMBARRAS RIVER BELOW BRYAN CREEK = 90.0 m³/s



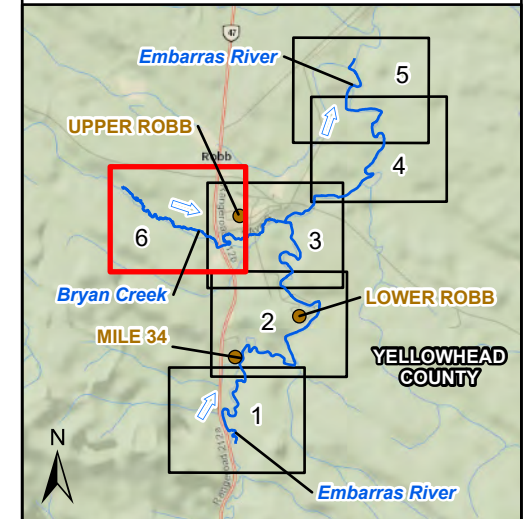
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Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

Job Number	Date
1009252	14-JUL-2025

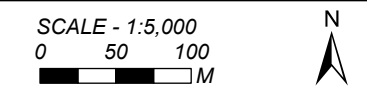
ROBB FLOOD STUDY
100-YEAR OPEN WATER
FLOOD INUNDATION MAP

JY: P:\Projects (Active)\1009252 Robb Flood Study\90_GIS\FLOOD_MAPPING\ROBB FS FLOOD INUNDATION MAPPING.aprx



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 100-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
BRYAN CREEK = 19.2 m³/s

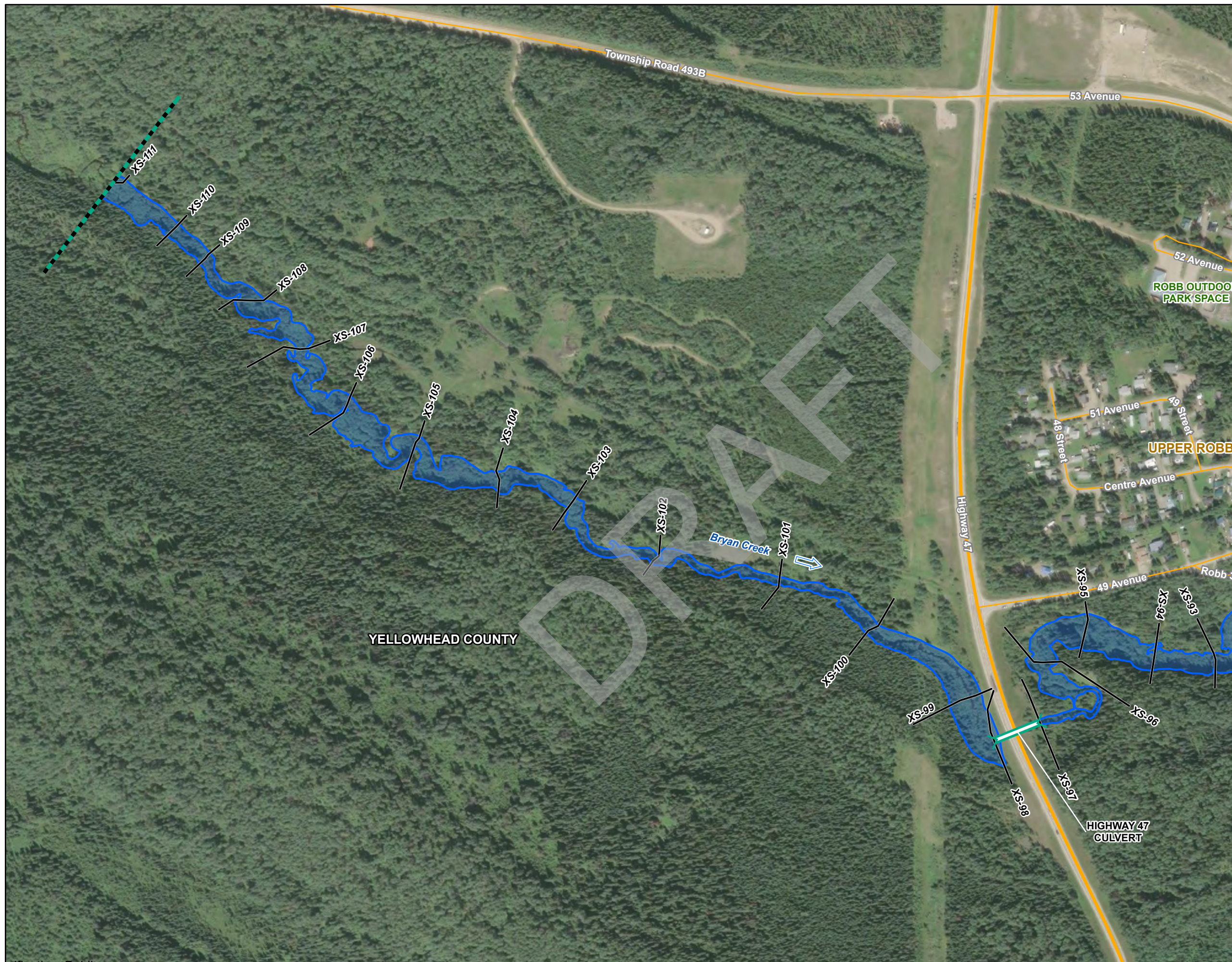


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Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

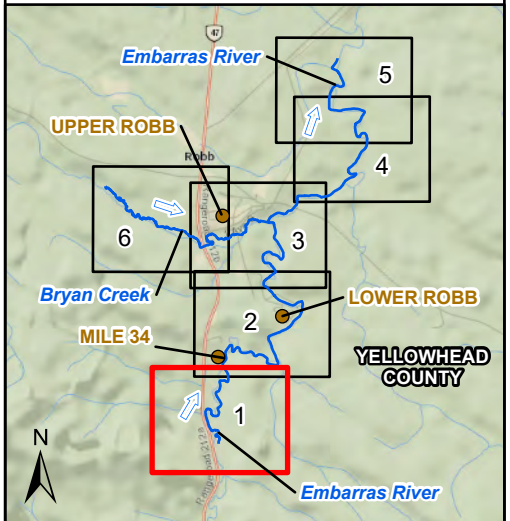
Job Number	Date
1009252	14-JUL-2025

ROBB FLOOD STUDY
100-YEAR OPEN WATER
FLOOD INUNDATION MAP



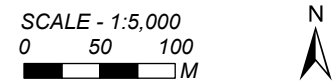
**200-YEAR OPEN WATER FLOOD INUNDATION MAP
(SHEETS 1 TO 6)**

DRAFT



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 200-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER ABOVE BRYAN CREEK = 80.0 m³/s



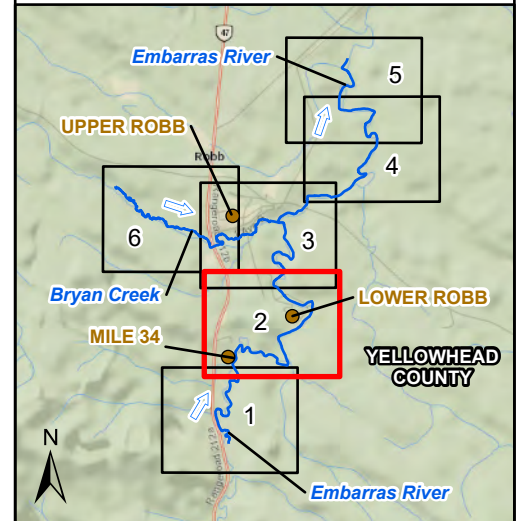
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Engineer	GIS	Reviewer
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Job Number	Date
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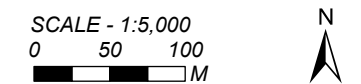
ROBB FLOOD STUDY
200-YEAR OPEN WATER
FLOOD INUNDATION MAP

JY: P:\Projects (Active)\1009252 Robb Flood Study\90_GIS\FLOOD_MAPPING\ROBB FS FLOOD INUNDATION MAPPING.aprx



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 200-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER ABOVE BRYAN CREEK = 80.0 m³/s

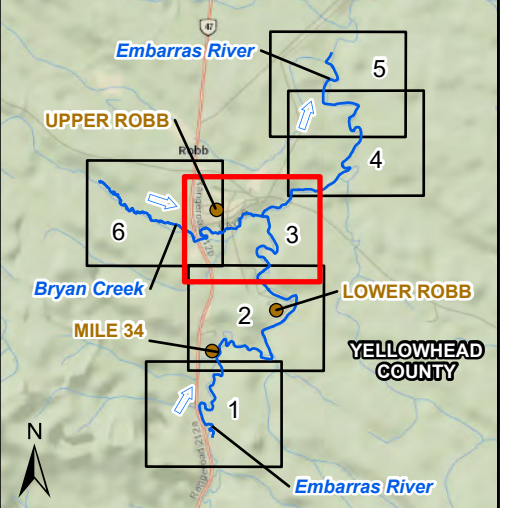


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Engineer	MMM	GIS	JY	Reviewer	MSN/RBA
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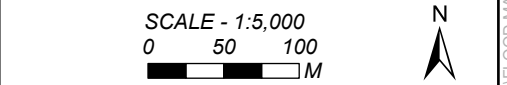
Job Number	1009252	Date	09-JUL-2025
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ROBB FLOOD STUDY
200-YEAR OPEN WATER
FLOOD INUNDATION MAP



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 200-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
 EMBARRAS RIVER ABOVE BRYAN CREEK = 80.0 m³/s
 EMBARRAS RIVER BELOW BRYAN CREEK = 102.8 m³/s
 BRYAN CREEK = 21.9 m³/s

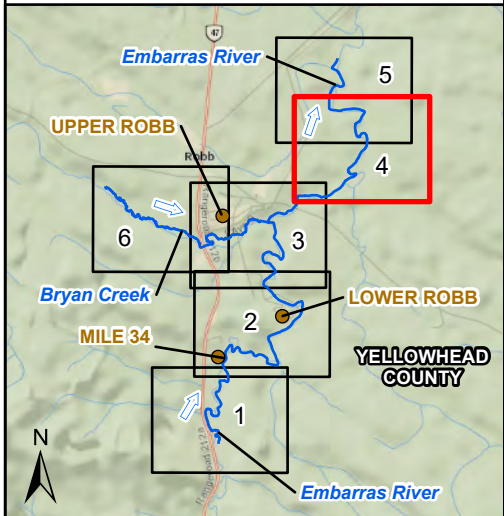


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MMM	JY	MSN/RBA

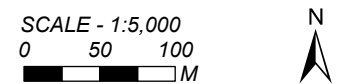
Job Number	Date
1009252	09-JUL-2025

ROBB FLOOD STUDY
200-YEAR OPEN WATER
FLOOD INUNDATION MAP



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 200-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER BELOW BRYAN CREEK = 102.8 m³/s



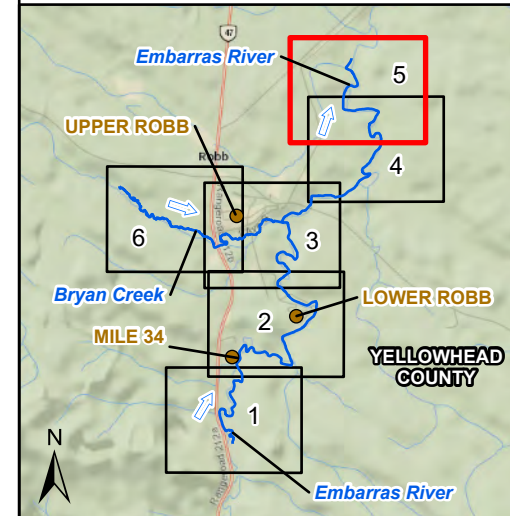
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Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

Job Number	Date
1009252	09-JUL-2025

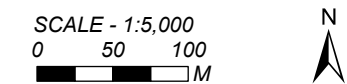
ROBB FLOOD STUDY
200-YEAR OPEN WATER
FLOOD INUNDATION MAP

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- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 200-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER BELOW BRYAN CREEK = 102.8 m³/s

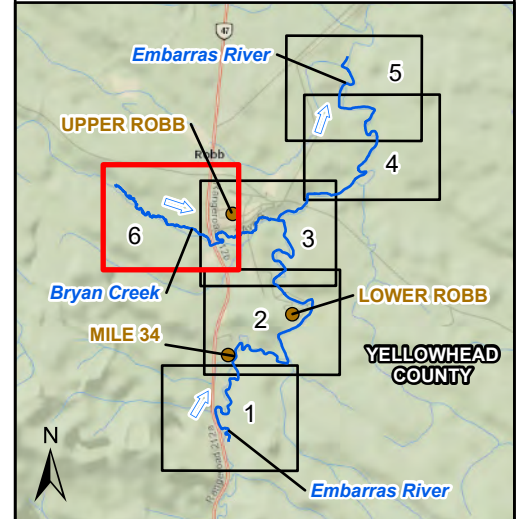


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Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

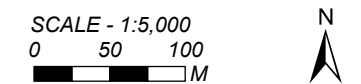
Job Number	Date
1009252	09-JUL-2025

ROBB FLOOD STUDY
200-YEAR OPEN WATER
FLOOD INUNDATION MAP



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 200-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
BRYAN CREEK = 21.9 m³/s

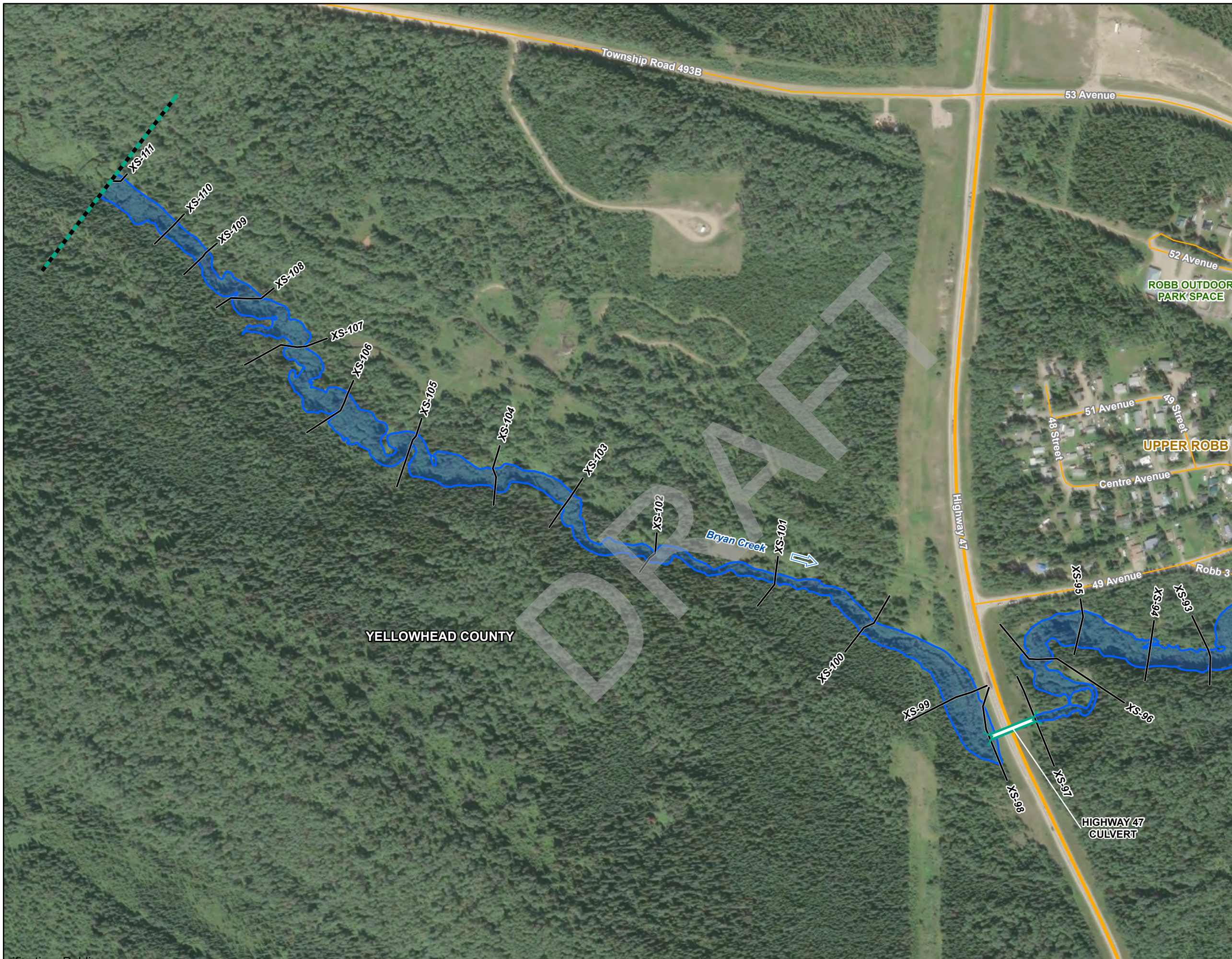


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Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

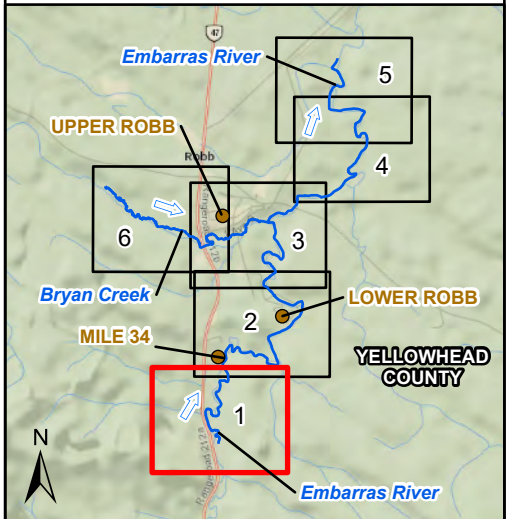
Job Number	Date
1009252	09-JUL-2025

ROBB FLOOD STUDY
200-YEAR OPEN WATER
FLOOD INUNDATION MAP



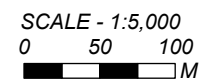
**350-YEAR OPEN WATER FLOOD INUNDATION MAP
(SHEETS 1 TO 6)**

DRAFT



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 350-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER ABOVE BRYAN CREEK = 88.2 m³/s

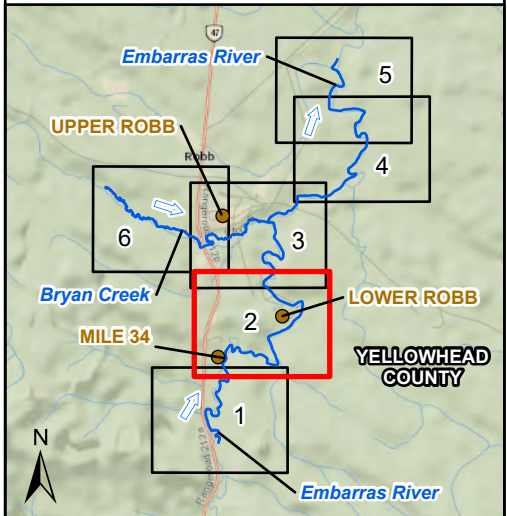


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Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

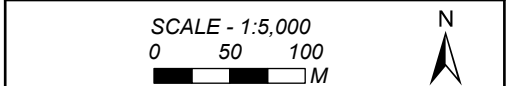
Job Number	Date
1009252	09-JUL-2025

ROBB FLOOD STUDY
350-YEAR OPEN WATER
FLOOD INUNDATION MAP



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 350-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER ABOVE BRYAN CREEK = 88.2 m³/s



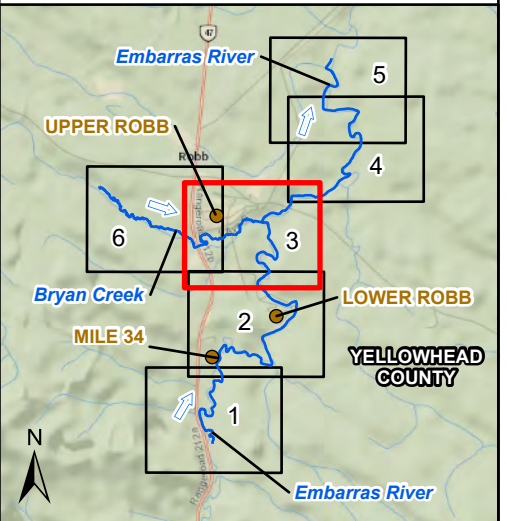
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Engineer	MMM	GIS	JY	Reviewer	MSN/RBA
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Job Number	1009252	Date	09-JUL-2025
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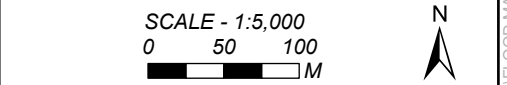
ROBB FLOOD STUDY
350-YEAR OPEN WATER
FLOOD INUNDATION MAP

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- MAJOR HIGHWAY
- LOCAL ROAD
- + RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 350-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
 EMBARRAS RIVER ABOVE BRYAN CREEK = 88.2 m³/s
 EMBARRAS RIVER BELOW BRYAN CREEK = 113.3 m³/s
 BRYAN CREEK = 24.2 m³/s

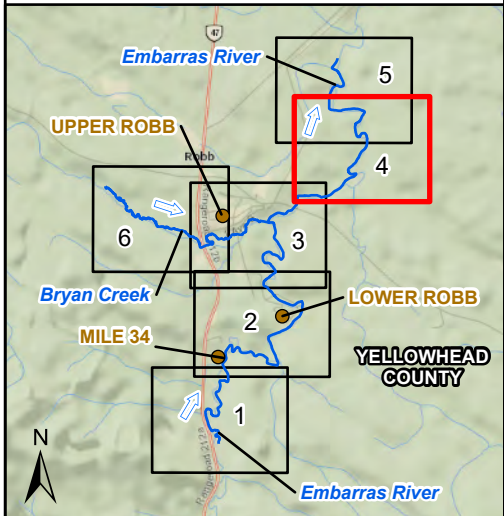


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Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

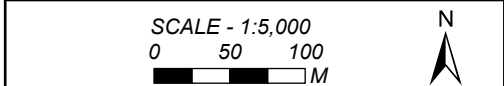
Job Number	Date
1009252	09-JUL-2025

ROBB FLOOD STUDY
350-YEAR OPEN WATER
FLOOD INUNDATION MAP



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 350-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER BELOW BRYAN CREEK = 113.3 m³/s



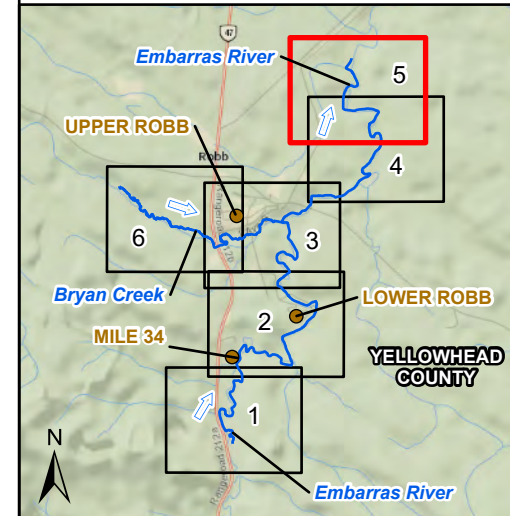
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Engineer	GIS	Reviewer
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Job Number	Date
1009252	09-JUL-2025

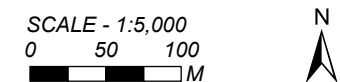
ROBB FLOOD STUDY
350-YEAR OPEN WATER
FLOOD INUNDATION MAP

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- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 350-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
 EMBARRAS RIVER BELOW BRYAN CREEK = 113.3 m³/s



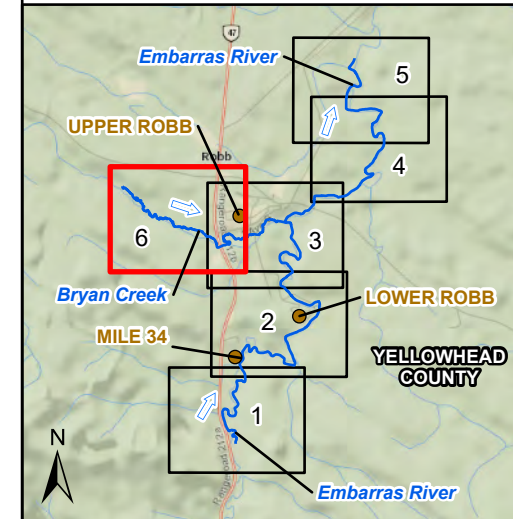
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Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

Job Number	Date
1009252	09-JUL-2025

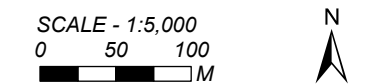
ROBB FLOOD STUDY
350-YEAR OPEN WATER
FLOOD INUNDATION MAP

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- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 350-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
BRYAN CREEK = 24.2 m³/s

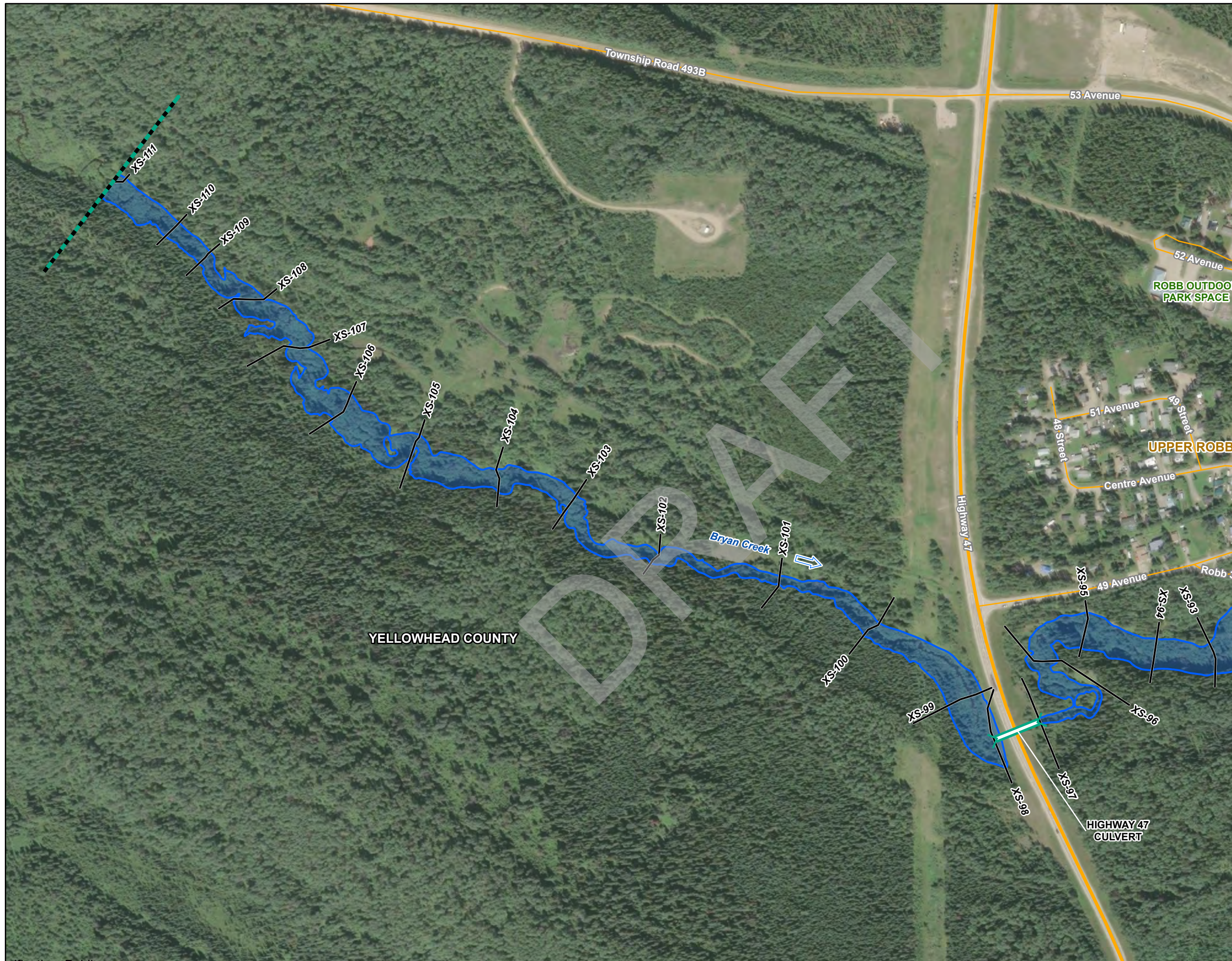


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Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

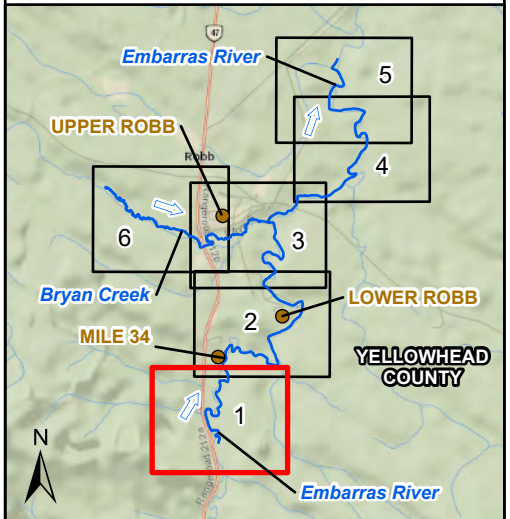
Job Number	Date
1009252	09-JUL-2025

ROBB FLOOD STUDY
350-YEAR OPEN WATER
FLOOD INUNDATION MAP



500-YEAR OPEN WATER FLOOD INUNDATION MAP
(SHEETS 1 TO 6)

DRAFT



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 500-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER ABOVE BRYAN CREEK = 93.1 m³/s

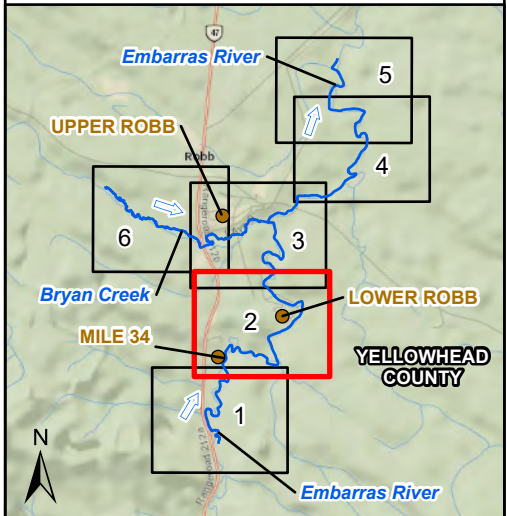
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Coordinate System: NAD 1983 CSRS 3TM 117;
Vertical Datum: CGVD28 HTv2.0; Units: Metres

Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

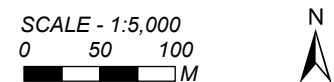
Job Number	Date
1009252	09-JUL-2025

ROBB FLOOD STUDY
500-YEAR OPEN WATER
FLOOD INUNDATION MAP



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 500-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER ABOVE BRYAN CREEK = 93.1 m³/s

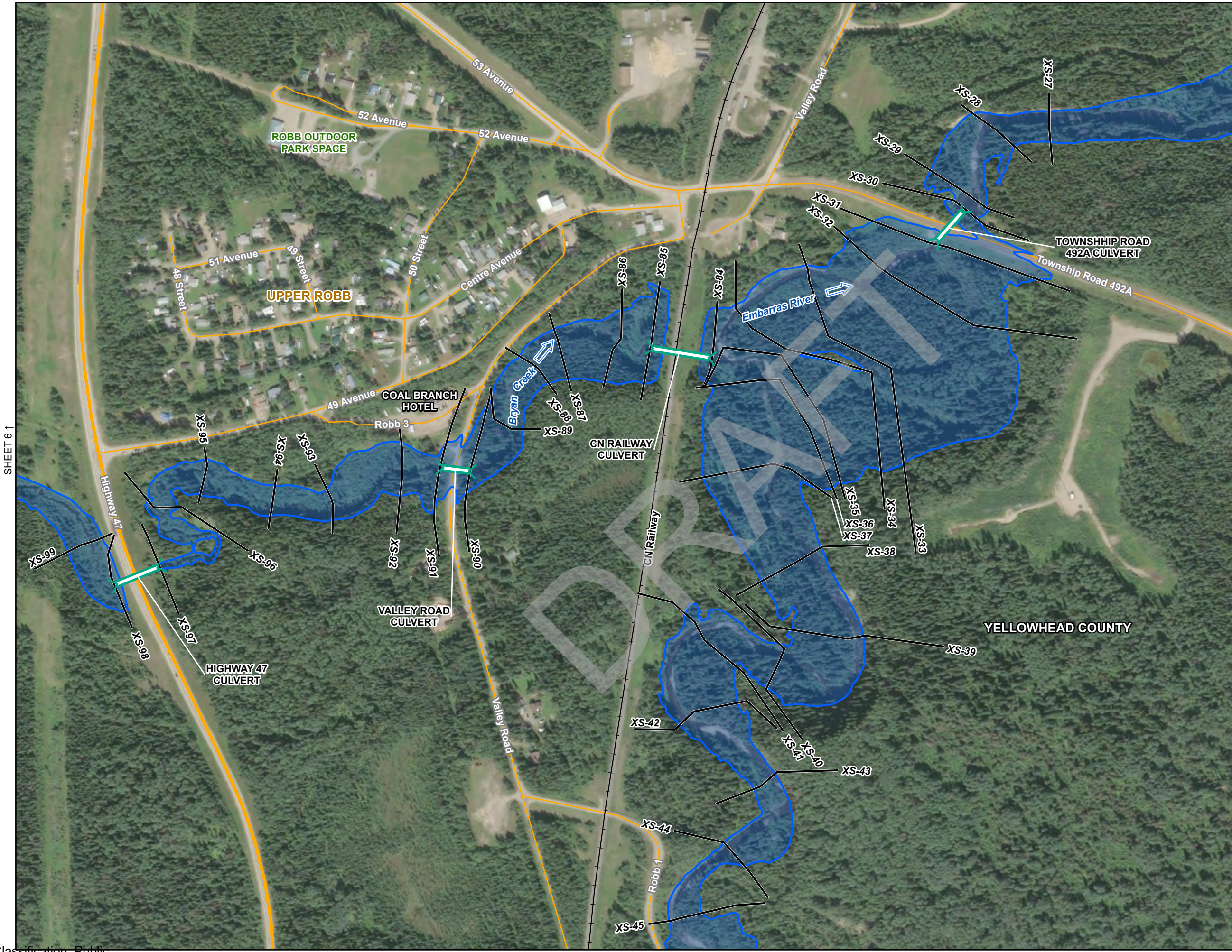


Coordinate System: NAD 1983 CSRS 3TM 117;
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Engineer	MMM	GIS	JY	Reviewer	MSN/RBA
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Job Number	1009252	Date	09-JUL-2025
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ROBB FLOOD STUDY
500-YEAR OPEN WATER
FLOOD INUNDATION MAP



Alberta Canada

nhc

MAJOR HIGHWAY
LOCAL ROAD
RAILWAY
BRIDGE
CULVERT
STUDY LIMIT
CROSS SECTION
FLOW DIRECTION
500-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER ABOVE BRYAN CREEK = 93.1 m³/s
EMBARRAS RIVER BELOW BRYAN CREEK = 119.7 m³/s
BRYAN CREEK = 25.5 m³/s

SCALE - 1:5,000
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Coordinate System: NAD 1983 CSRS 3TM 117;
Vertical Datum: CGVD28 HTv2.0; Units: Metres

Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

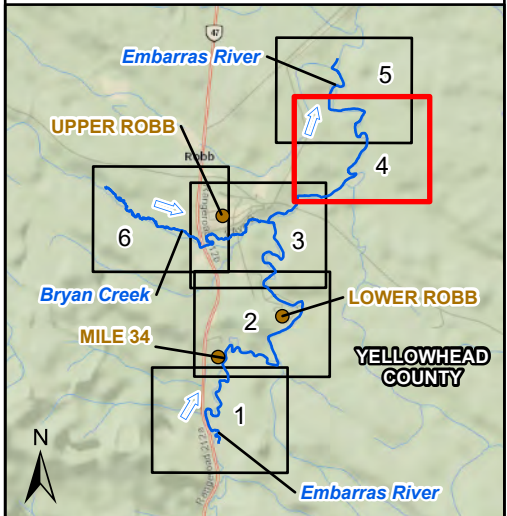
Job Number	Date
1009252	09-JUL-2025

ROBB FLOOD STUDY
500-YEAR OPEN WATER
FLOOD INUNDATION MAP

SHEET 3 OF 6

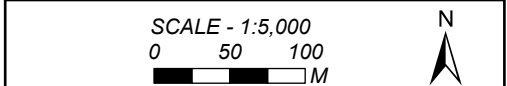
SHEET 6 ↑

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- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 500-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER BELOW BRYAN CREEK = 119.7 m³/s



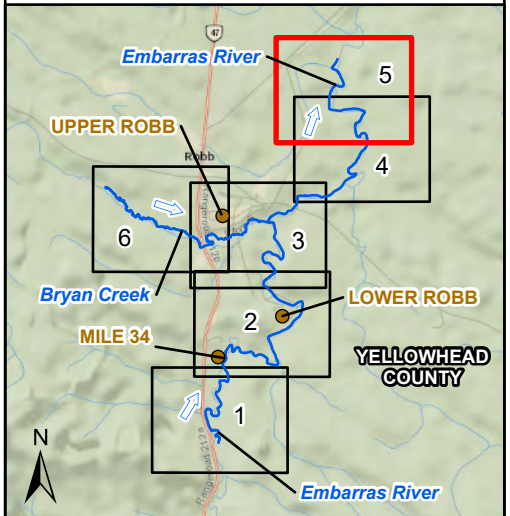
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Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

Job Number	Date
1009252	09-JUL-2025

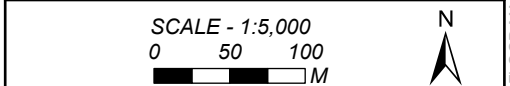
ROBB FLOOD STUDY
500-YEAR OPEN WATER
FLOOD INUNDATION MAP

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- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 500-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
 EMBARRAS RIVER BELOW BRYAN CREEK = 119.7 m³/s

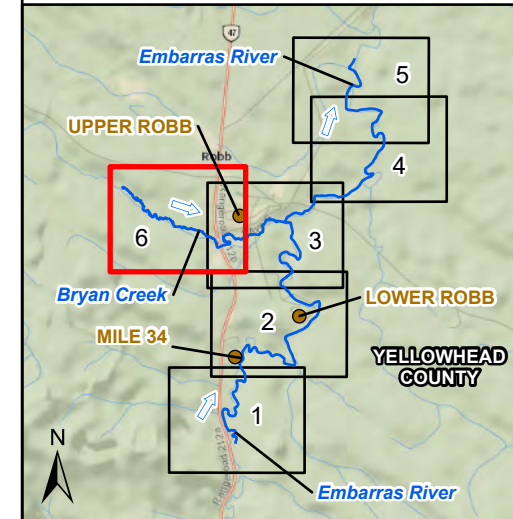


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Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

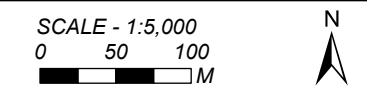
Job Number	Date
1009252	09-JUL-2025

ROBB FLOOD STUDY
500-YEAR OPEN WATER
FLOOD INUNDATION MAP



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 500-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
BRYAN CREEK = 25.5 m³/s

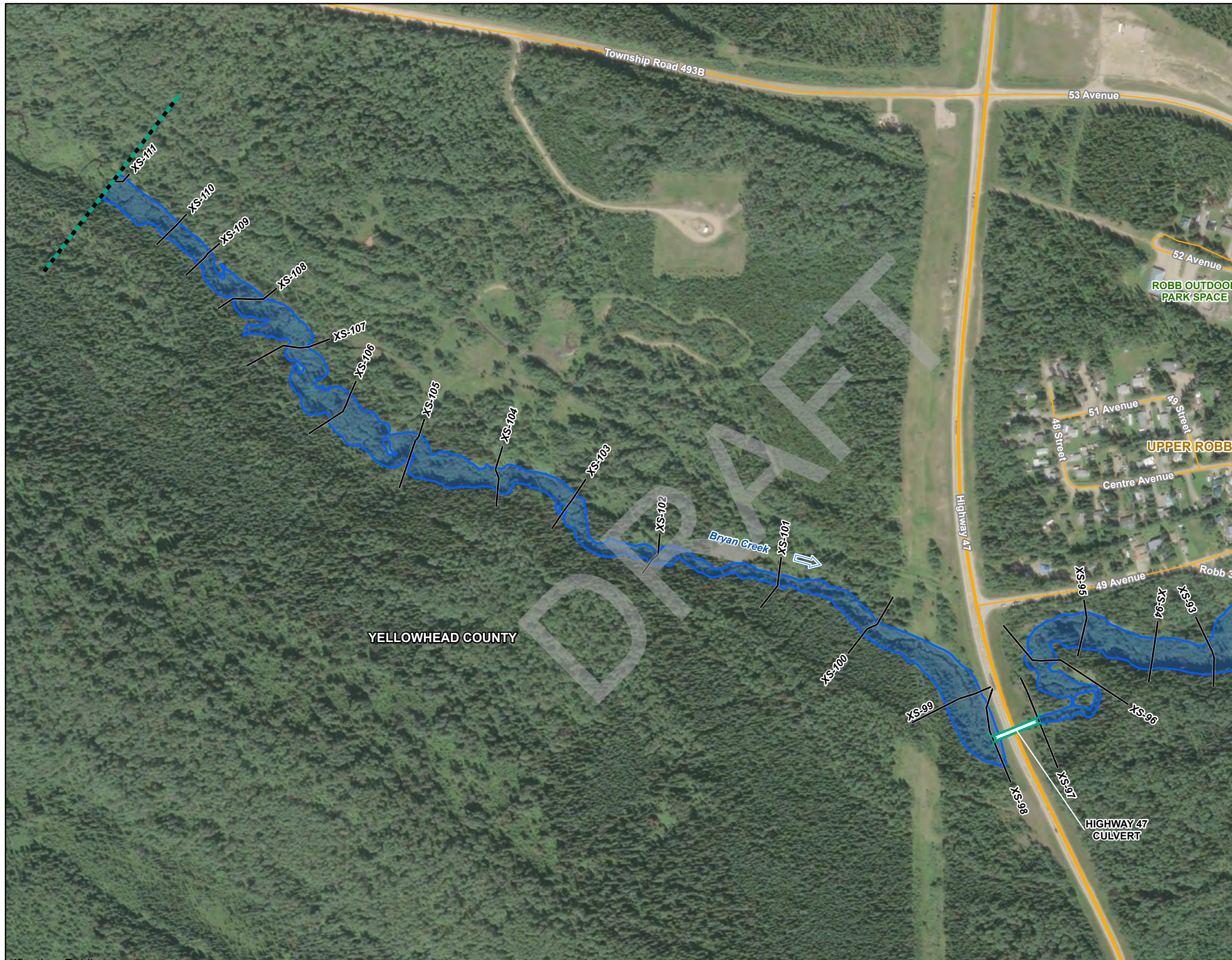


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Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

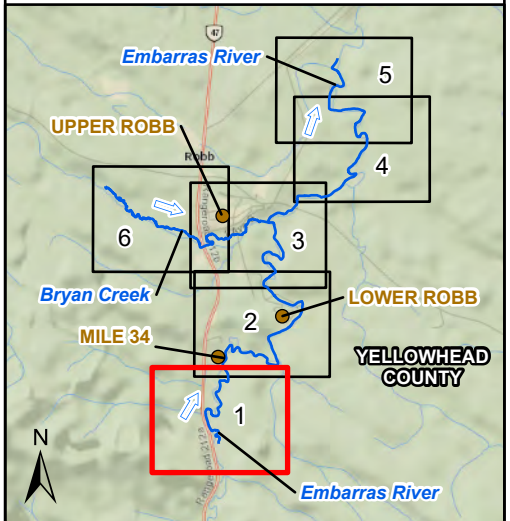
Job Number	Date
1009252	09-JUL-2025

ROBB FLOOD STUDY
500-YEAR OPEN WATER
FLOOD INUNDATION MAP



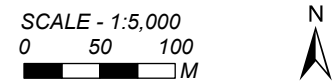
**750-YEAR OPEN WATER FLOOD INUNDATION MAP
(SHEETS 1 TO 6)**

DRAFT



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 750-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER ABOVE BRYAN CREEK = 99.0 m³/s

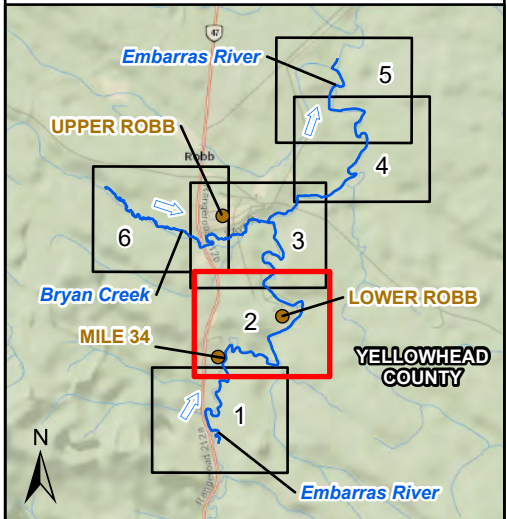


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Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

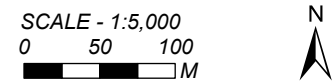
Job Number	Date
1009252	09-JUL-2025

ROBB FLOOD STUDY
750-YEAR OPEN WATER
FLOOD INUNDATION MAP



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 750-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER ABOVE BRYAN CREEK = 99.0 m³/s

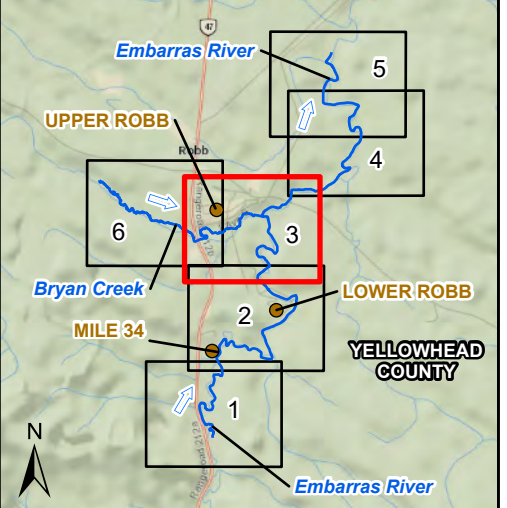


Coordinate System: NAD 1983 CSRS 3TM 117;
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Engineer	MMM	GIS	JY	Reviewer	MSN/RBA
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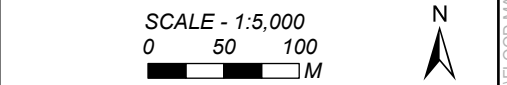
Job Number	1009252	Date	09-JUL-2025
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ROBB FLOOD STUDY
750-YEAR OPEN WATER
FLOOD INUNDATION MAP



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 750-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
 EMBARRAS RIVER ABOVE BRYAN CREEK = 99.0 m³/s
 EMBARRAS RIVER BELOW BRYAN CREEK = 127.3 m³/s
 BRYAN CREEK = 27.1 m³/s



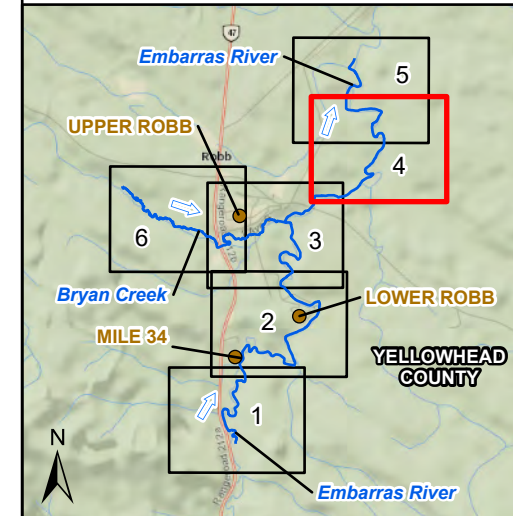
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Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

Job Number	Date
1009252	09-JUL-2025

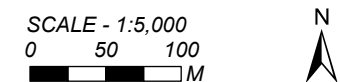
ROBB FLOOD STUDY
750-YEAR OPEN WATER
FLOOD INUNDATION MAP

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- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 750-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER BELOW BRYAN CREEK = 127.3 m³/s

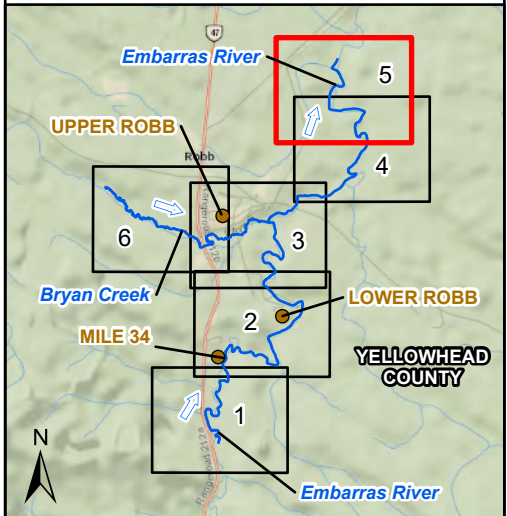


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Vertical Datum: CGVD28 HTv2.0; Units: Metres

Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

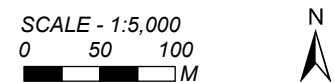
Job Number	Date
1009252	09-JUL-2025

ROBB FLOOD STUDY
750-YEAR OPEN WATER
FLOOD INUNDATION MAP



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 750-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER BELOW BRYAN CREEK = 127.3 m³/s

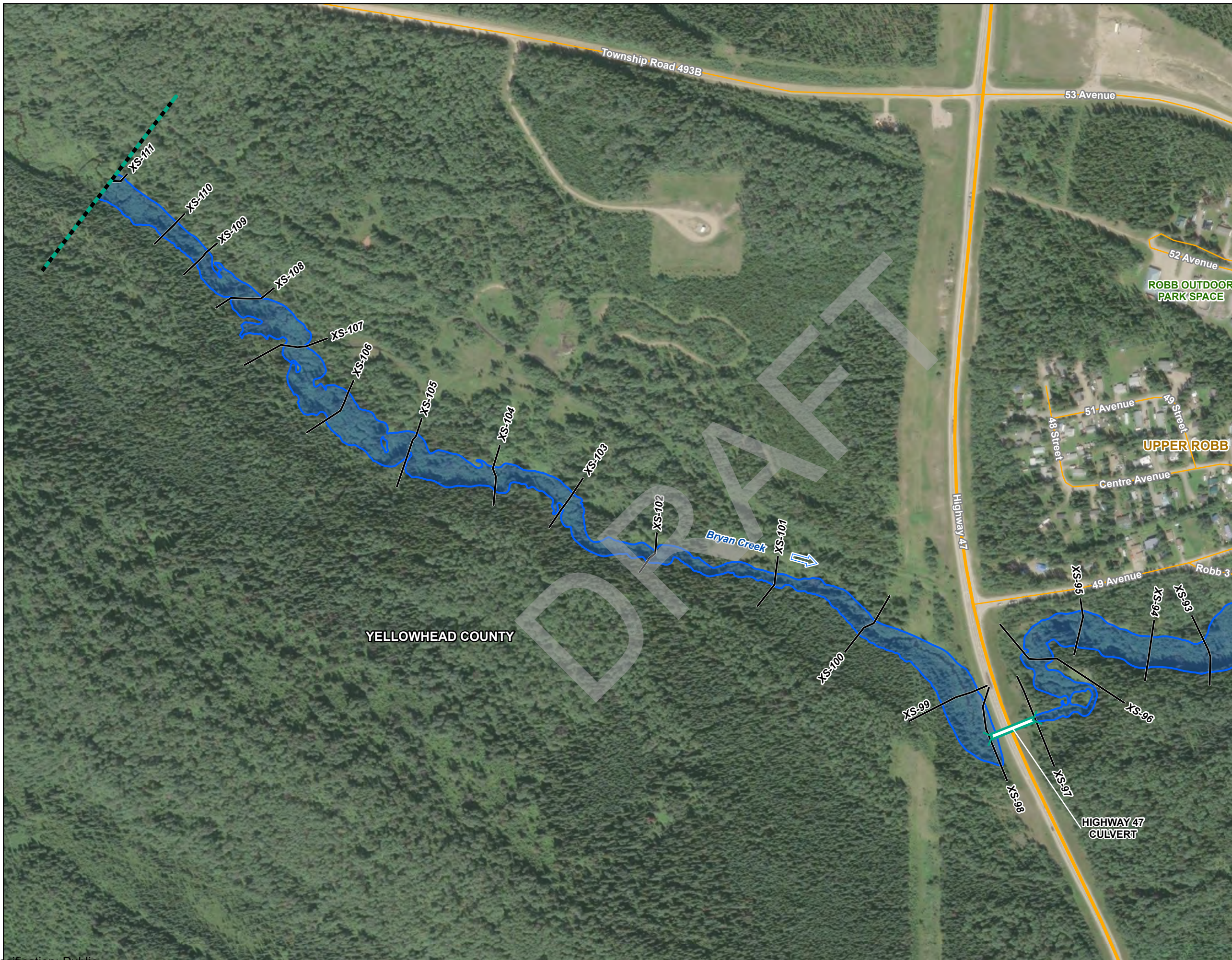
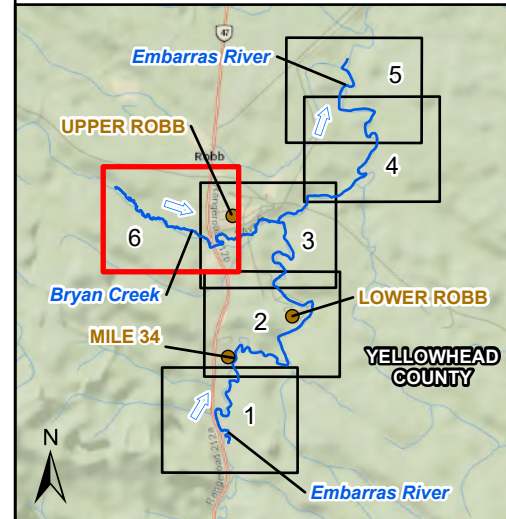


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Vertical Datum: CGVD28 HTv2.0; Units: Metres

Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

Job Number	Date
1009252	09-JUL-2025

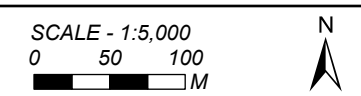
ROBB FLOOD STUDY
750-YEAR OPEN WATER
FLOOD INUNDATION MAP



SHEET 3

- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 750-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
BRYAN CREEK = 27.1 m³/s



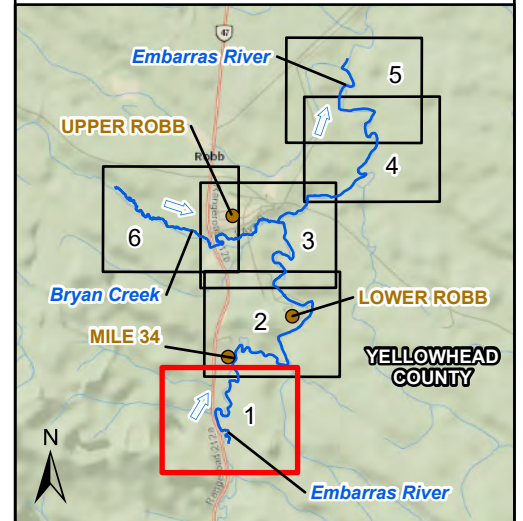
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Engineer	MMM	GIS	JY	Reviewer	MSN/RBA
Job Number	1009252		Date	09-JUL-2025	

ROBB FLOOD STUDY
750-YEAR OPEN WATER
FLOOD INUNDATION MAP

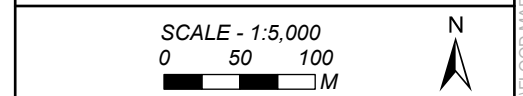
**1000-YEAR OPEN WATER FLOOD INUNDATION MAP
(SHEETS 1 TO 6)**

DRAFT



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 1000-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER ABOVE BRYAN CREEK = 103.0 m³/s

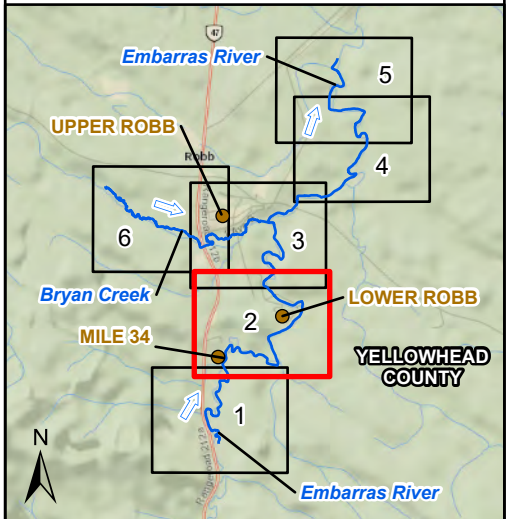


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Vertical Datum: CGVD28 HTv2.0; Units: Metres

Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

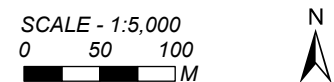
Job Number	Date
1009252	09-JUL-2025

ROBB FLOOD STUDY
1000-YEAR OPEN WATER
FLOOD INUNDATION MAP



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 1000-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER ABOVE BRYAN CREEK = 103.0 m³/s



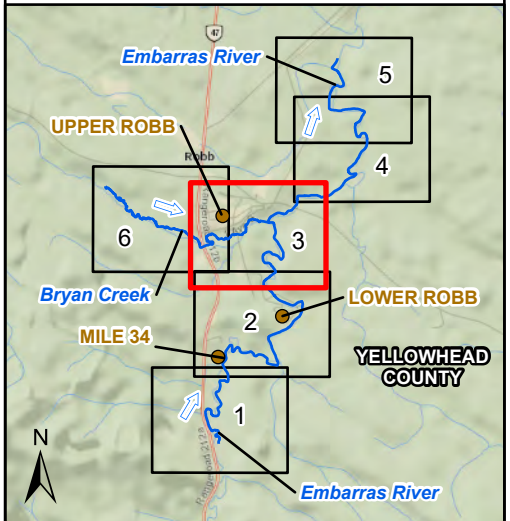
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Vertical Datum: CGVD28 HTv2.0; Units: Metres

Engineer	MMM	GIS	JY	Reviewer	MSN/RBA
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Job Number	1009252	Date	09-JUL-2025
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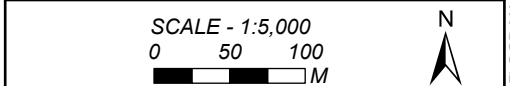
ROBB FLOOD STUDY
1000-YEAR OPEN WATER
FLOOD INUNDATION MAP

J:_P\Projects (Active)\1009252 Robb Flood Study\90_GIS\FLOOD_MAPPING\ROBB FS FLOOD INUNDATION MAPPING.aprx



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 1000-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
 EMBARRAS RIVER ABOVE BRYAN CREEK = 103.0 m³/s
 EMBARRAS RIVER BELOW BRYAN CREEK = 132.5 m³/s
 BRYAN CREEK = 28.2 m³/s



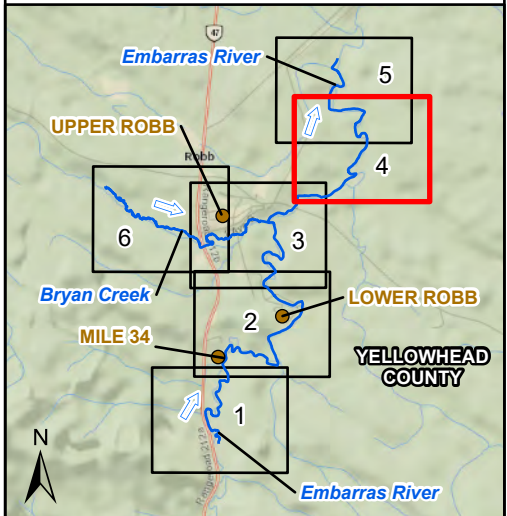
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Engineer	GIS	Reviewer
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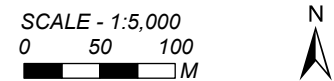
ROBB FLOOD STUDY
1000-YEAR OPEN WATER
FLOOD INUNDATION MAP

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- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 1000-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
EMBARRAS RIVER BELOW BRYAN CREEK = 132.5 m³/s



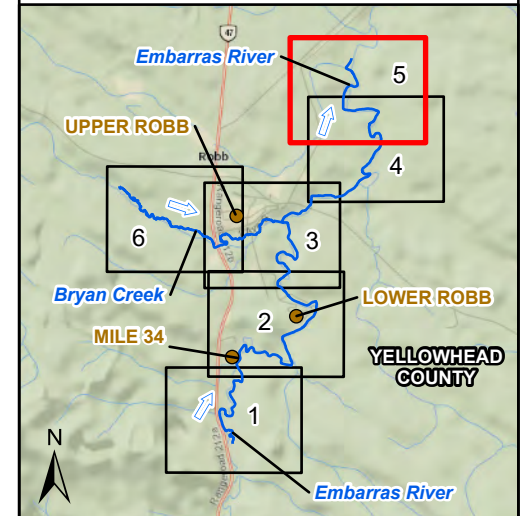
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Engineer	GIS	Reviewer
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Job Number	Date
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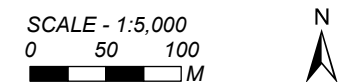
ROBB FLOOD STUDY
1000-YEAR OPEN WATER
FLOOD INUNDATION MAP

J:_P\Projects (Active)\1009252 Robb Flood Study\90_GIS\FLOOD_MAPPING\ROBB FS FLOOD INUNDATION MAP\ING.aprx



- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
- BRIDGE
- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 1000-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
 EMBARRAS RIVER BELOW BRYAN CREEK = 132.5 m³/s



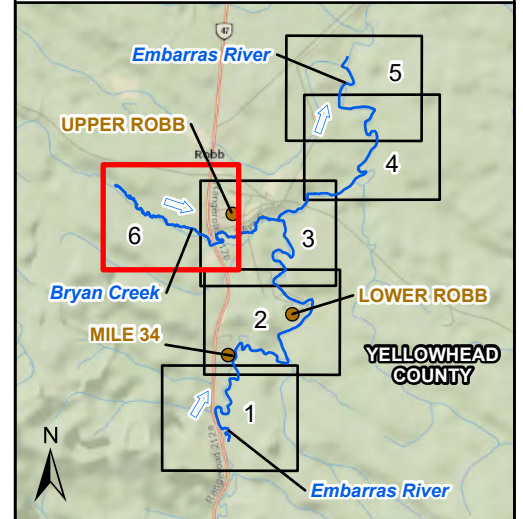
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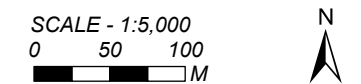
ROBB FLOOD STUDY
1000-YEAR OPEN WATER
FLOOD INUNDATION MAP

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- MAJOR HIGHWAY
- LOCAL ROAD
- RAILWAY
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- CULVERT
- STUDY LIMIT
- CROSS SECTION
- FLOW DIRECTION
- 1000-YEAR FLOOD INUNDATION EXTENT

DISCHARGE
BRYAN CREEK = 28.2 m³/s



Coordinate System: NAD 1983 CSRS 3TM 117;
Vertical Datum: CGVD28 HTv2.0; Units: Metres

Engineer	GIS	Reviewer
MMM	JY	MSN/RBA

Job Number	Date
1009252	09-JUL-2025

ROBB FLOOD STUDY
1000-YEAR OPEN WATER
FLOOD INUNDATION MAP

