



Navigation Protection Program
Programs Group
Transport Canada

Our file:
2019-500334

APPROVAL

APPLICANT: BC Hydro
Ste 600, Four Bentall Centre, 1055 Dunsmuir St. PO Box 49260
Vancouver, British Columbia V7X 1V5

WORK: Embankment
Causeway

SITE LOCATION: Located at approximately 56.10676, -121.80776,
Peace River, located on unsurveyed Crown Lands including the beds,
foreshore of the Peace River and the Peace River within Section 10,
Section 11, Section 13, Section 14 and Section 15, Township 82, Range
25, Peace River District in the province of British Columbia

As per the application (detailed above) to the Minister of Transport, submitted pursuant to the *Canadian Navigable Waters Act*, for an approval of the work per the fourteen (14) attached plan(s), the Minister hereby approves the work pursuant to subsection 7(6) for the construction of the above mentioned work, in accordance with the following terms and conditions:

1. The CNWA Approval and its Terms and Conditions shall be posted at an easily accessible place at the worksite, and be provided to the contractor conducting the work.
2. The owner shall provide information about the causeway location and side channel obstruction using the Boater Communications Protocol, and post the information on the owner website, on a page related to the project.
3. Upon commencement of the construction of the causeways, install and maintain warning signs, advising of the obstruction of the side channel and an arrow indicating the direction of the main channel. Signs shall be a minimum of 72" x 48", a white background with black lettering, the size of the text shall be at least 15cm tall with the word "WARNING" at 1.5 times the size of the message text. Signs shall be placed on either side of the side channel at the upstream and downstream confluence with the main Peace River channel.

WARNING
OBSTRUCTION AHEAD
KEEP TO THE MAIN CHANNEL



4. During construction, the outermost extent of each causeway above the surface shall be marked with orange Hi-visibility markers on the upstream and downstream corners.
5. During construction, the outermost extent of each causeway above the surface shall be marked with a flashing yellow light on the upstream and downstream corners.



6. During construction of the causeways, machinery left in the water during periods of darkness or limited visibility shall be marked with a flashing yellow light, visible to upstream and downstream traffic.
7. Post construction, the causeways shall be marked with orange Hi-visibility markers, evenly spaced every 20m on the upstream side of causeway #1, and downstream sides of causeways #2 and #3, until the causeways are submerged due to inundation.
8. Post construction, the causeways shall be marked with flashing yellow lights, evenly spaced every 40m on the upstream side of causeway #1, and at midspan on downstream sides of causeways #2 and #3, until the causeways are submerged due to inundation.
9. Once the causeways are submerged due to inundation, yellow buoys shall be placed and maintained at the location of the causeways. Buoys are to be no more than 20 metres apart and no less than 0.6 metres in diameter. Horizontal bands of yellow reflective tape, not less than 10 cm in width and 15 cm in length, shall be either placed at intervals around the horizontal circumference of the buoys or displayed from suitable topmarks that are visible from all directions. Buoys shall remain in place until the water elevation at the causeway location reaches 5m greater than the top in-river elevation of the causeway.

SIGNED on December 2, 2019 in Pacific

Jonn Leeden
Navigation Protection Program
Programs Group
Transport Canada
Pacific Region
For the Minister of Transport

/sp

Path: X:\ArcGIS\Projects\Permitting\Construction\Highways\Lynx_Creek\Hwy29_Realignment\Lynx_Creek_East_1016_N11_00556.mxd



Reviewed / Examiné
Page 1 of 14
2019-500334
NOV 25 2019
By/par: **JOHN LEEDEN**
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Map Notes
1. Datum NAD83
2. Projection UTM Zone 10N
3. Base Data Province of B.C.
4. Orthophotos created from 1:40,000
photos taken Sep. 10th 2007.

Legend

- Highway Realignment Centerline
- ▭ Highway Realignment Right-of-Way
- ▭ Causeway
- ▭ High Water Mark (445.8masl)

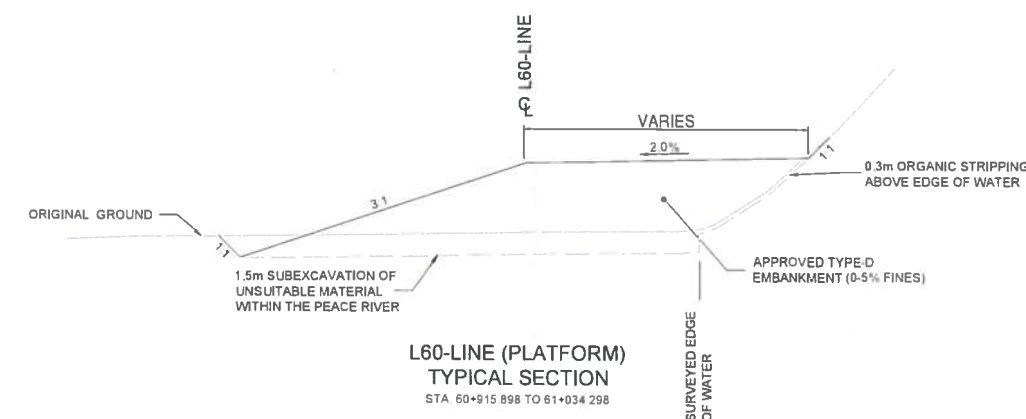
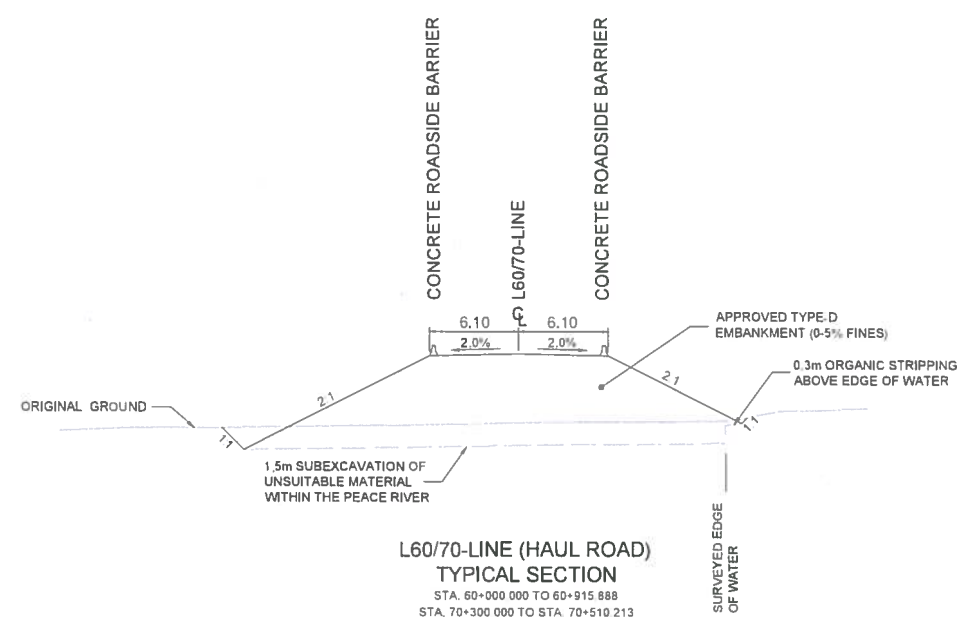
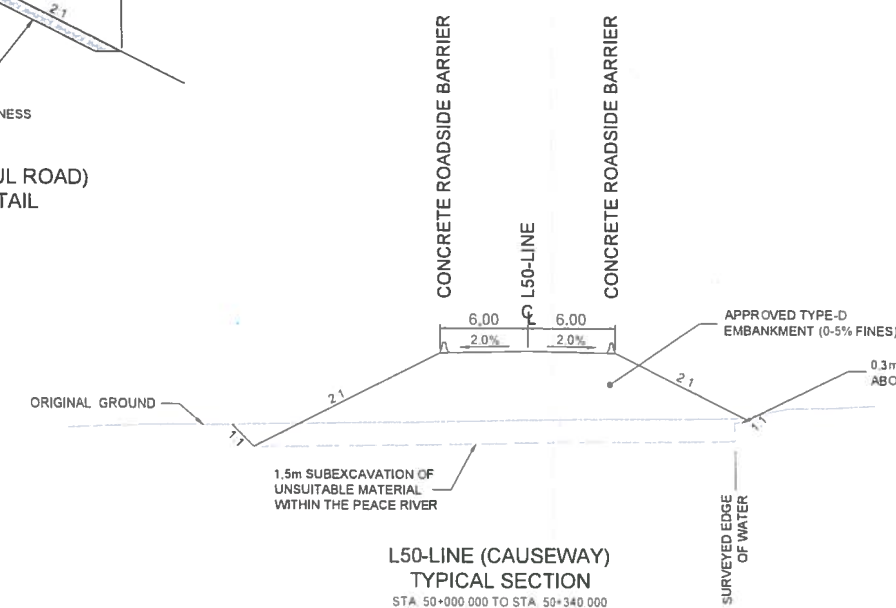
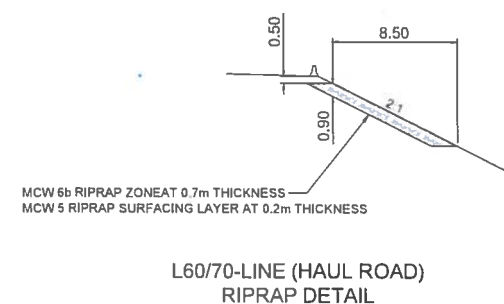
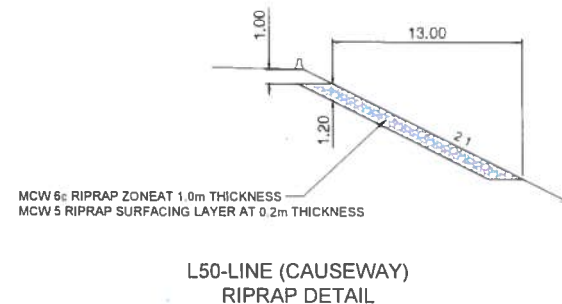
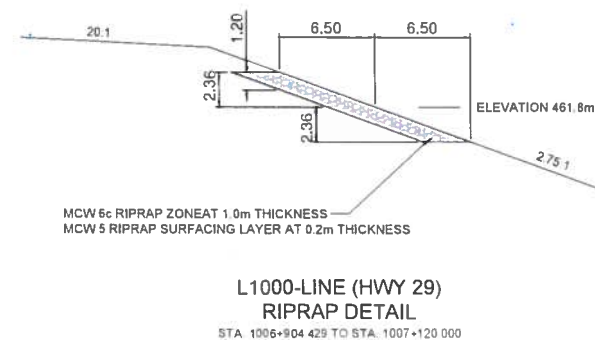
1:8,000 0 500m



**Highway 29 Realignment
Lynx Creek East**

Date	Jun 27, 2019	DWG NO	1016-N11-00556	R 0
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Construction of the Site C Clean Energy Project is subject to required regulatory and permitting approvals.

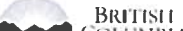


NOTE: EMBANKMENT SLOPES SHOWN ARE ANTICIPATED CONSTRUCTION SLOPES AND ARE SUBJECT TO CHANGE WITH GEOTECHNICAL RECOMMENDATIONS

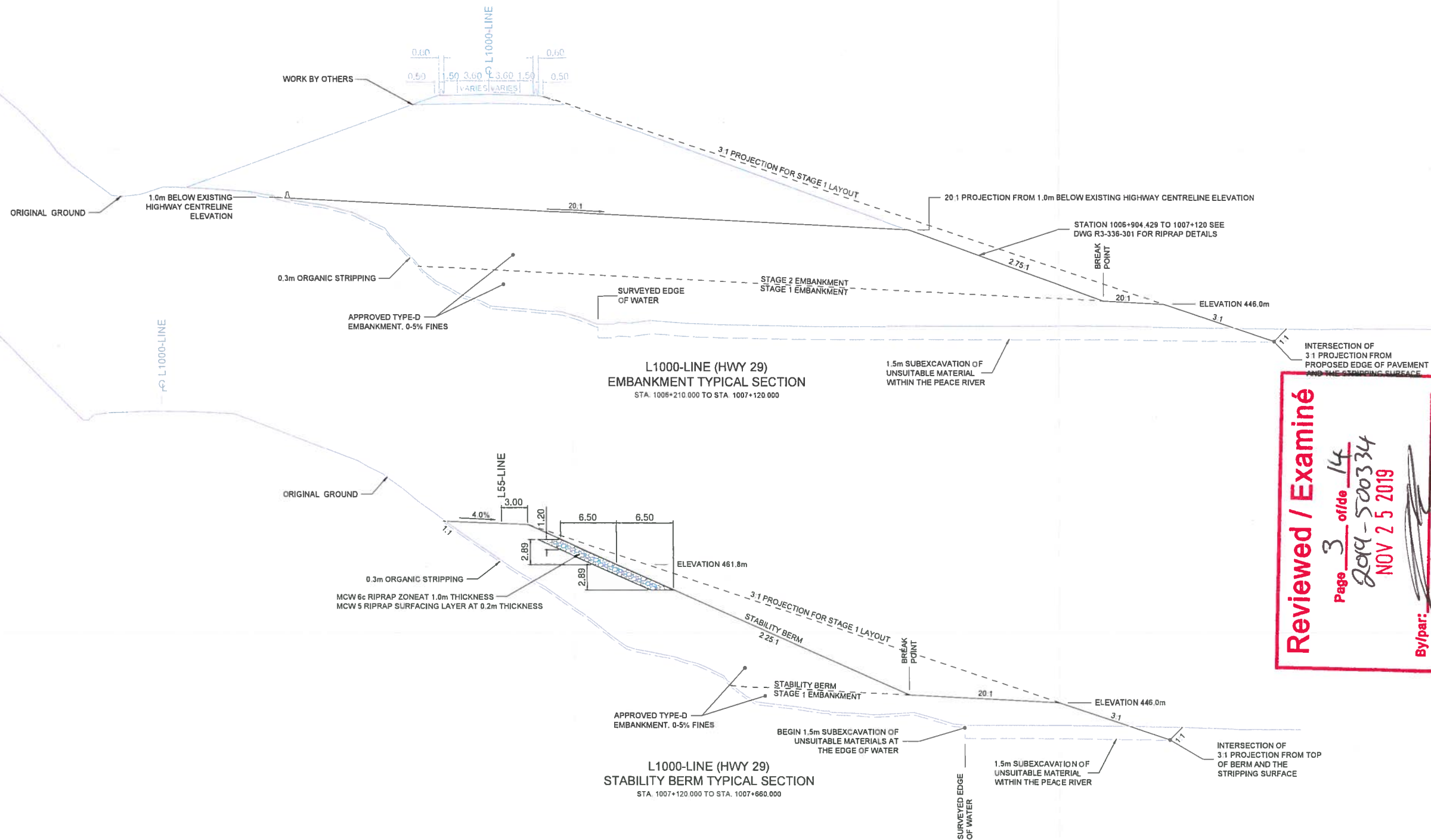
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FOR INFORMATION ONLY - JUNE 25, 2019

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NOTE: EMBANKMENT SLOPES SHOWN ARE ANTICIPATED CONSTRUCTION SLOPES AND ARE SUBJECT TO CHANGE WITH GEOTECHNICAL RECOMMENDATIONS

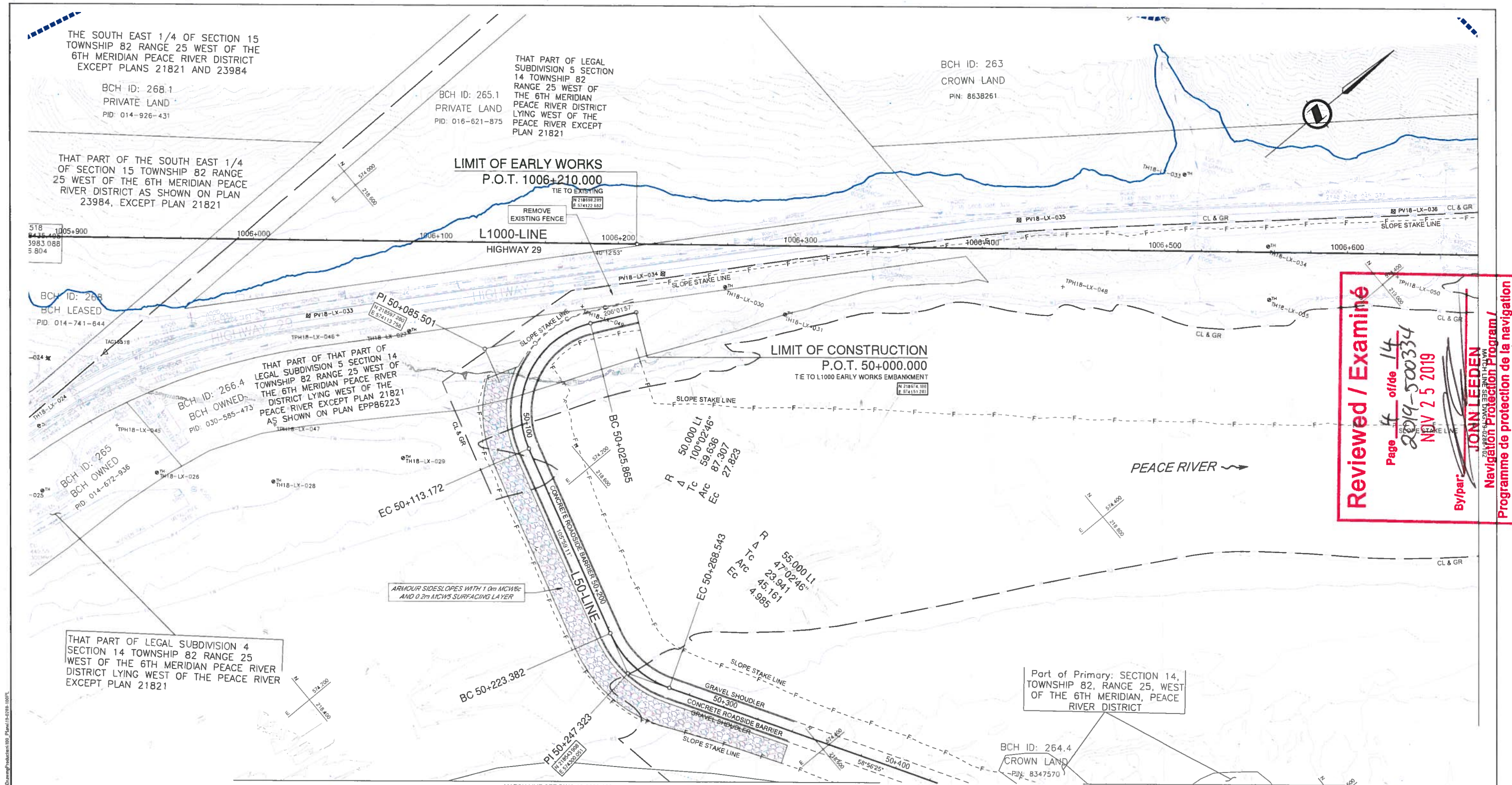
FOR REFERENCE ONLY

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FUNCTIONAL DESIGN - JULY 4, 2019

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Page 3 of 14
2019-500334
NOV 25 2019
By/par: JONN LEEDEN
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SCALE 0 2 1:250 12m				TYPICAL SECTIONS HIGHWAY NO. 29 LYNX CREEK EAST EARLY WORKS	
REV	DATE	REVISIONS	SIGNATURE	DESIGNED Z. RICHETTS DATE JULY 2019	
				QUALITY CONTROL B. MARKOWSKI DATE JULY 2019	
				QUALITY ASSURANCE J. MORRIS DATE JULY 2019	
				DRAWN Z. RICHETTS DATE JULY 2019	
				SENIOR DESIGNER	
				DATE	
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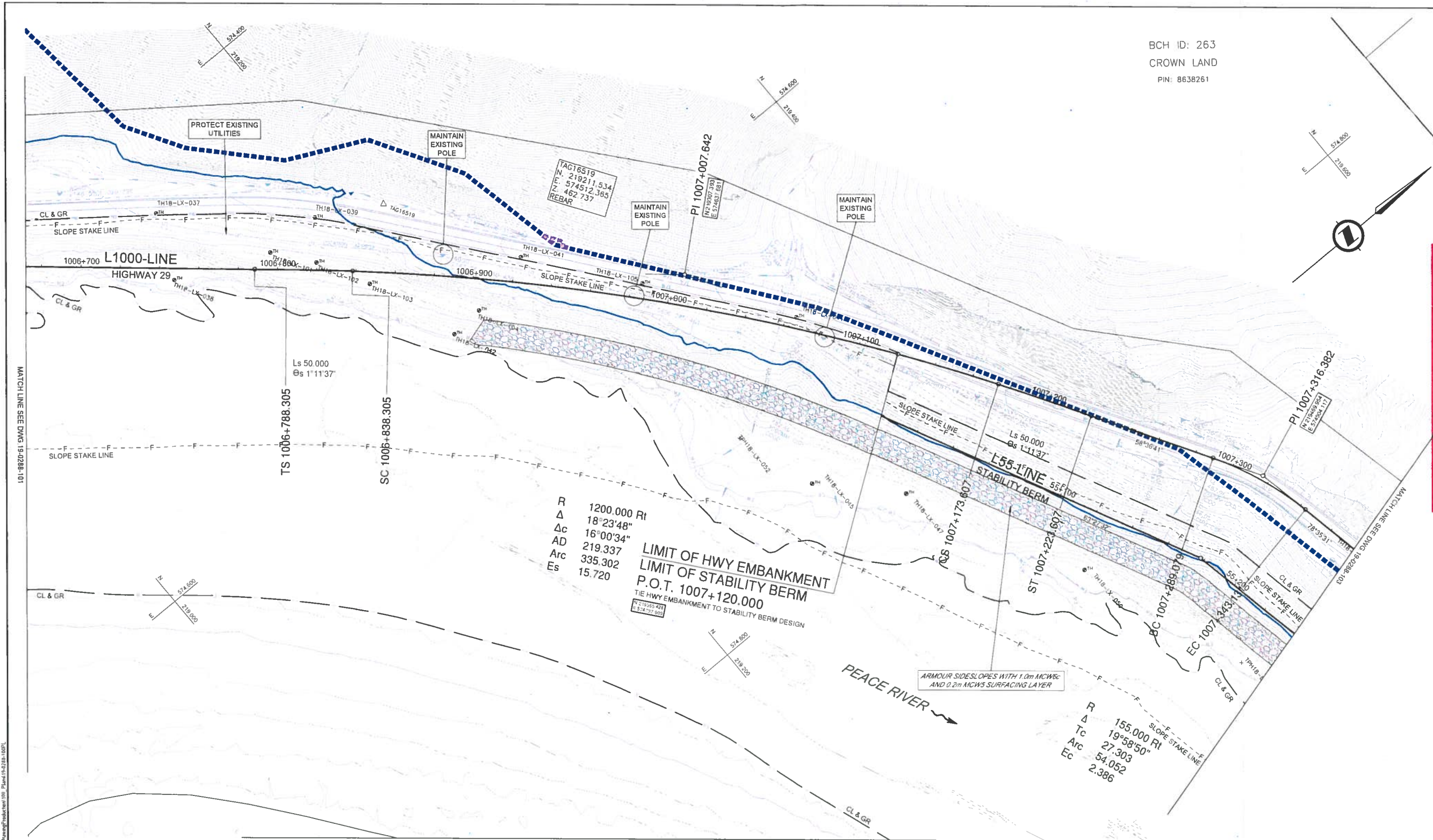


BCH ID: 263
CROWN LAND
PIN: 8638261

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FOR PLANS
SEE DWG. R3-336-101 TO 112

FOR ARCHAEOLOGICAL PLANS
SEE DWG. R3-336-101ARC TO 112ARC

FOR ENVIRONMENTAL
FEATURE PLANS
SEE DWG. R3-336-101ENV TO 112ENV

FOR PROFILES
SEE DWG. R3-336-201 TO 206

FOR TYPICAL
SECTIONS AND DETAILS
SEE DWG. R3-336-301 TO 302

NOTES:

1. CLEARING AND GRUBBING BETWEEN THE SOUTH EXISTING EDGE OF PAVEMENT AND THE EDGE OF WATER UNLESS OTHERWISE SHOWN. CLEARING AND GRUBBING ON ISLANDS TO BE COMPLETE FROM THE EDGE OF WATER TO A MAX ELEVATION OF 463.0m.

2. EXTEND ALL EXISTING CULVERTS THROUGH PROPOSED EMBANKMENT.

LEGEND

MAXIMUM NORMAL RESERVOIR LINE (MNRL) ———

STABILITY IMPACT LINE (SIL) - - - - -

EROSION IMPACT LINE (EIL) - - - - -

FLOOD IMPACT LINE (FIL) - - - - -

(WIL BASED ON PRELIMINARY 1:10 000 YR LANDSLIDE)

CLEARING AND GRUBBING
TOTAL THIS SHEET: 8.36 ha

DRAFT

100%
HIGHWAY No 29

01 02 03 04 05
06 07 08 09 10 11 12

L1000-LINE
L50-LINE
L55-LINE
L60-LINE
L70-LINE

PRELIMINARY DESIGN - JUNE 26, 2019

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MINISTRY OF TRANSPORTATION
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BRITISH COLUMBIA
HIGHWAY ENGINEERING
NORTHERN REGION

PLANS AND DRAINAGE
HIGHWAY NO. 29
LYNX CREEK EAST EARLY WORKS

SCALE 0 10 1 000 50m

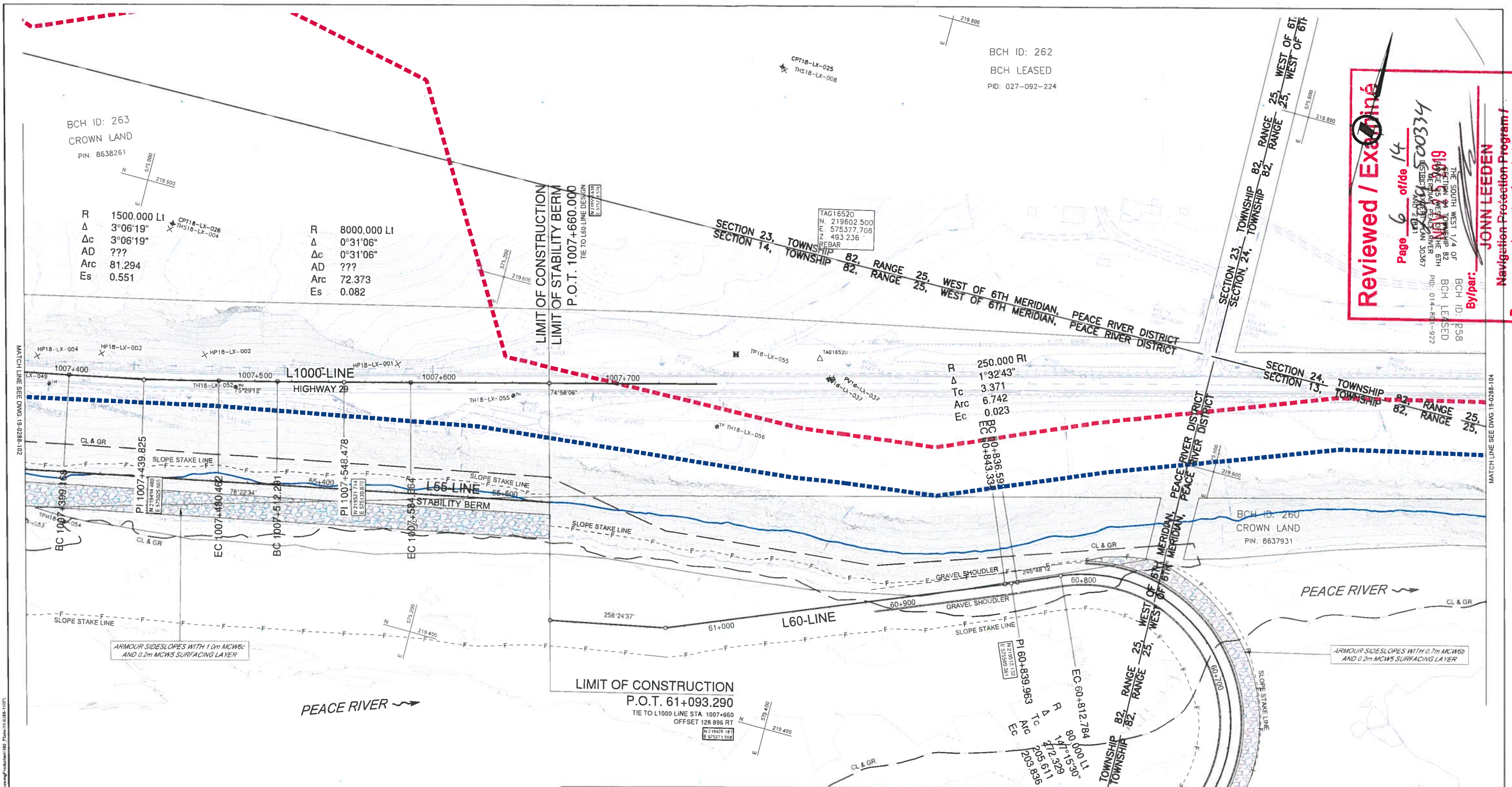
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DATE 22/06/2019

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QUALITY CONTROL J. MANKOWSKI DATE JUNE 2019
QUALITY ASSURANCE J. NOBLE DATE JUNE 2019
DRAWN Z. RICHETTS DATE JUNE 2019

SENIOR DESIGNER
DATE

FILE NUMBER	PROJECT NUMBER	REV	DRAWING NUMBER	REV
19-0288	37504-0000	3	R3-336-102	



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616

11/11/19

THE SOUTH WEST 1/4 OF SECTION 24, TOWNSHIP 82, RANGE 25, WEST OF 6TH MERIDIAN, PEACE RIVER DISTRICT, BC. BCH ID: 260 PIN: 8637931

By: **JOHN LEEDEN**

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- FOR PLANS
SEE DWG. R3-336-101 TO 112
- FOR ARCHAEOLOGICAL PLANS
SEE DWG. R3-336-101ARC TO 112ARC
- FOR ENVIRONMENTAL
FEATURE PLANS
SEE DWG. R3-336-101ENV TO 112ENV
- FOR PROFILES
SEE DWG. R3-336-201 TO 206
- FOR TYPICAL
SECTIONS AND DETAILS
SEE DWG. R3-336-301 TO 302

NOTES:

- CLEARING AND GRUBBING BETWEEN THE SOUTH EXISTING EDGE OF PAVEMENT AND THE EDGE OF WATER UNLESS OTHERWISE SHOWN. CLEARING AND GRUBBING ON ISLANDS TO BE COMPLETE FROM THE EDGE OF WATER TO A MAX ELEVATION OF 463.0m.
- EXTEND ALL EXISTING CULVERTS THROUGH PROPOSED EMBANKMENT.

LEGEND

MAXIMUM NORMAL RESERVOIR LINE (MNRL) ———

STABILITY IMPACT LINE (SIL) - - - - -

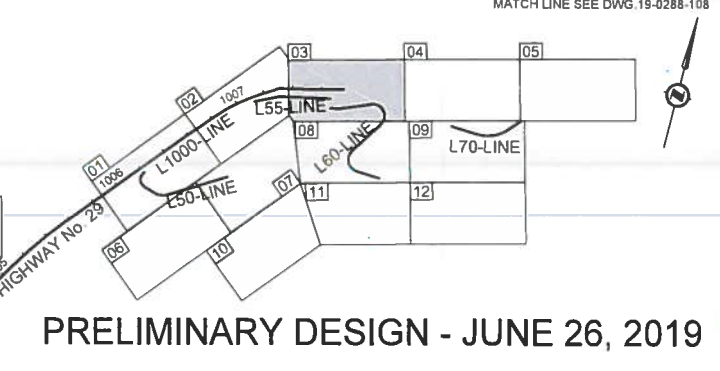
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FLOOD IMPACT LINE (FIL) - - - - -

(WIL BASED ON PRELIMINARY 1:10 000 YR LANDSLIDE)

CLEARING AND GRUBBING
TOTAL THIS SHEET: 3.82 ha

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DATE: 2019-06-26

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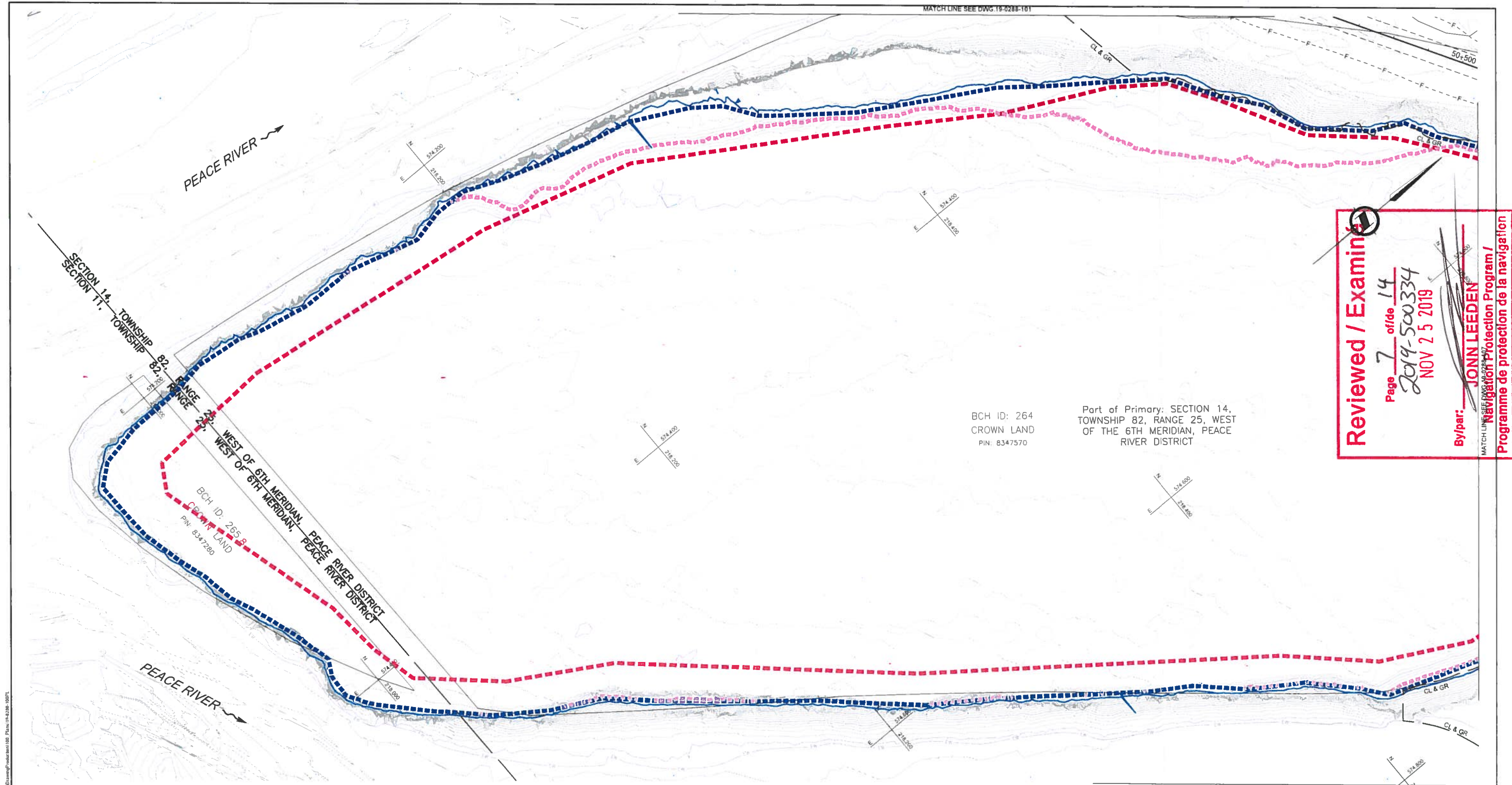
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DESIGNED: Z. RICKETTS DATE: JUNE 2019
QUALITY CONTROL: B. MANKOWSKA DATE: JUNE 2019
QUALITY ASSURANCE: J. MORRIS DATE: JUNE 2019
DRAWN: Z. RICKETTS DATE: JUNE 2019

MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE
HIGHWAY ENGINEERING
NORTHERN REGION

PLANS AND DRAINAGE
HIGHWAY NO. 29
LYNX CREEK EAST EARLY WORKS

FILE NUMBER	PROJECT NUMBER	REV	DRAWING NUMBER	REV
19-0288	37504-0000	3	R3-336-103	



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FOR PLANS
SEE DWG. R3-336-101 TO 112

FOR ARCHAEOLOGICAL PLANS
SEE DWG. R3-336-101ARC TO 112ARC

FOR ENVIRONMENTAL
FEATURE PLANS
SEE DWG. R3-336-101ENV TO 112ENV

FOR PROFILES
SEE DWG. R3-336-201 TO 206

FOR TYPICAL
SECTIONS AND DETAILS
SEE DWG. R3-336-301 TO 302

NOTES:

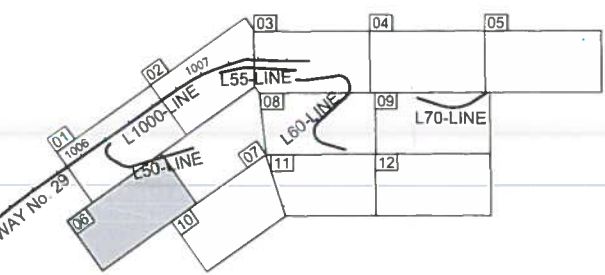
1. CLEARING AND GRUBBING BETWEEN THE SOUTH EXISTING EDGE OF PAVEMENT AND THE EDGE OF WATER UNLESS OTHERWISE SHOWN. CLEARING AND GRUBBING ON ISLANDS TO BE COMPLETE FROM THE EDGE OF WATER TO A MAX ELEVATION OF 463.0m.
2. EXTEND ALL EXISTING CULVERTS THROUGH PROPOSED EMBANKMENT.

LEGEND

MAXIMUM NORMAL RESERVOIR LINE (MNRL) ———
STABILITY IMPACT LINE (SIL) - - - - -
EROSION IMPACT LINE (EIL) - - - - -
FLOOD IMPACT LINE (FIL) - - - - -
(WIL BASED ON PRELIMINARY 1:10 000 YR LANDSLIDE)

CLEARING AND GRUBBING
TOTAL THIS SHEET: 1.18 ha

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PRELIMINARY DESIGN - JUNE 26, 2019

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SCALE 0 10 1 000 50m

REV	DATE	REVISIONS	SIGNATURE

**MINISTRY OF TRANSPORTATION
AND INFRASTRUCTURE**
HIGHWAY ENGINEERING
NORTHERN REGION

PLANS AND DRAINAGE
HIGHWAY NO. 29
LYNX CREEK EAST EARLY WORKS

DESIGNED	Z. RICKETTS	DATE	JUNE 2018
QUALITY CONTROL	R. MANKOWSKIE	DATE	JUNE 2018
QUALITY ASSURANCE	J. MORRIS	DATE	JUNE 2018
DRAWN	Z. RICKETTS	DATE	JUNE 2018

FILE NUMBER	PROJECT NUMBER	REV.	DRAWING NUMBER	REV.
19-0288	37504-0000	3	R3-336-106	



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By/par: **JOHN LEEDEN**
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FOR PLANS
SEE DWG. R3-336-101 TO 112

FOR ARCHAEOLOGICAL PLANS
SEE DWG. R3-336-101ARC TO 112ARC

FOR ENVIRONMENTAL
FEATURE PLANS
SEE DWG. R3-336-101ENV TO 112ENV

FOR PROFILES
SEE DWG. R3-336-201 TO 206

FOR TYPICAL
SECTIONS AND DETAILS
SEE DWG. R3-336-301 TO 302

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LEGEND

MAXIMUM NORMAL RESERVOIR LINE (MNRL) ———

STABILITY IMPACT LINE (SIL) - - - - -

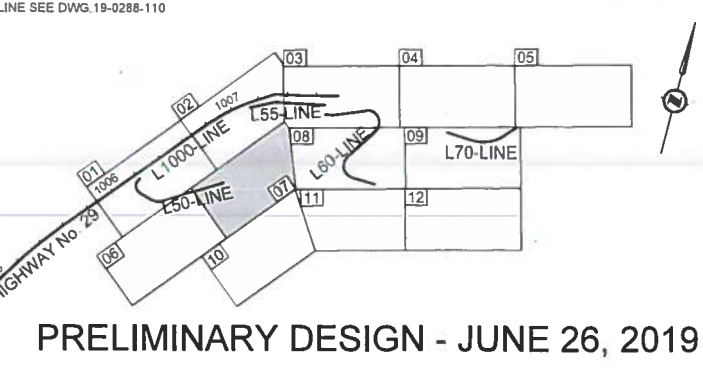
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FLOOD IMPACT LINE (FIL) - - - - -

(WIL BASED ON PRELIMINARY 1:10 000 YR LANDSLIDE)

**CLEARING AND GRUBBING
TOTAL THIS SHEET: 22.9 ha**

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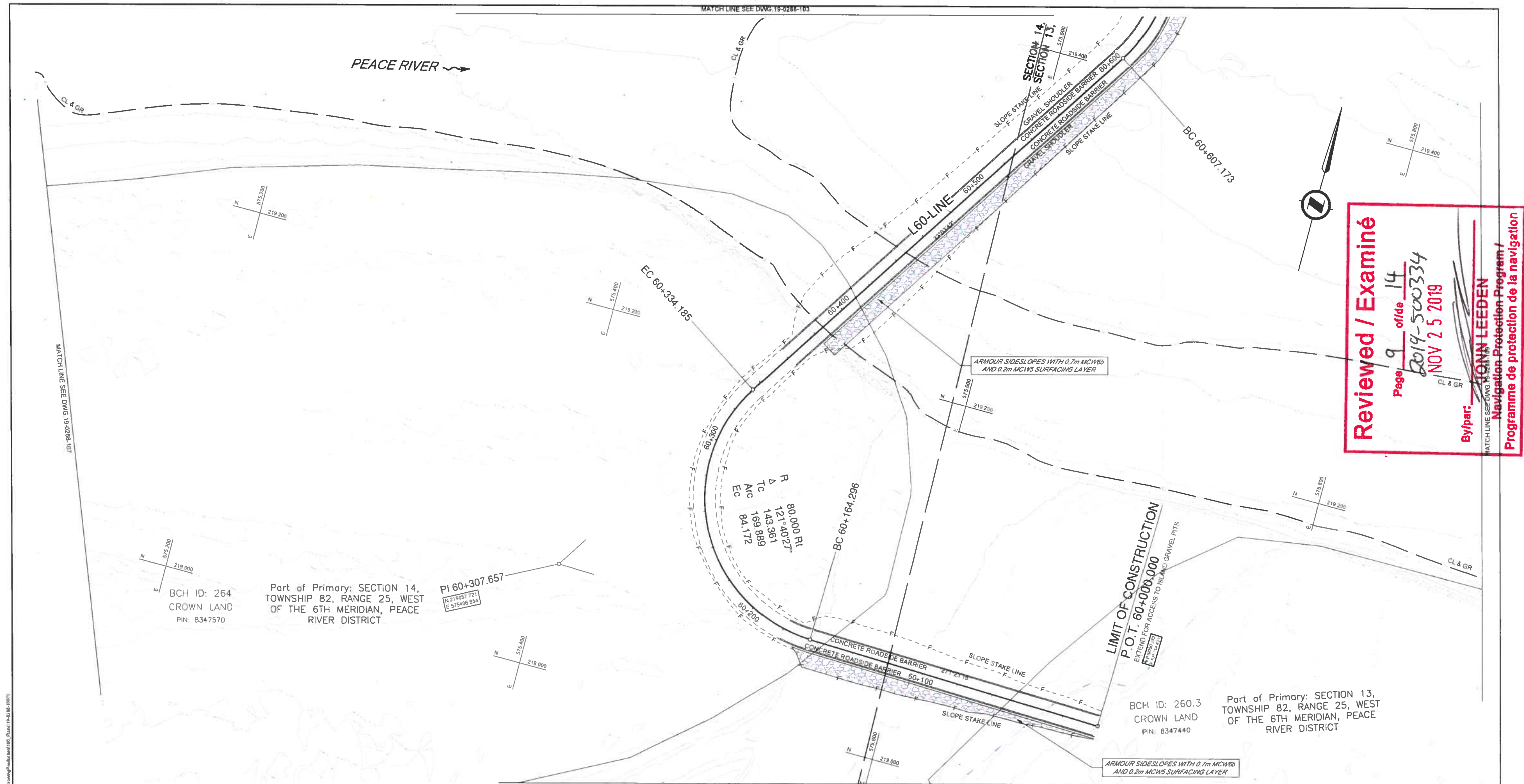
MINISTRY OF TRANSPORTATION
AND INFRASTRUCTURE
HIGHWAY ENGINEERING
NORTHERN REGION

PLANS AND DRAINAGE
HIGHWAY NO. 29
LYNX CREEK EAST EARLY WORKS

DESIGNED: Z. RICKETTS DATE: JUNE 2019
QUALITY CONTROL: R. MARKOWSKI DATE: JUNE 2019
QUALITY ASSURANCE: J. MORRIS DATE: JUNE 2019
DRAWN: Z. RICKETTS DATE: JUNE 2019

SENIOR DESIGNER
DATE

FILE NUMBER: 19-0288 PROJECT NUMBER: 37504-0000 REG: 3 DRAWING NUMBER: R3-336-107 REV



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NOV 25 2019
By/par: JONN LEEDEN
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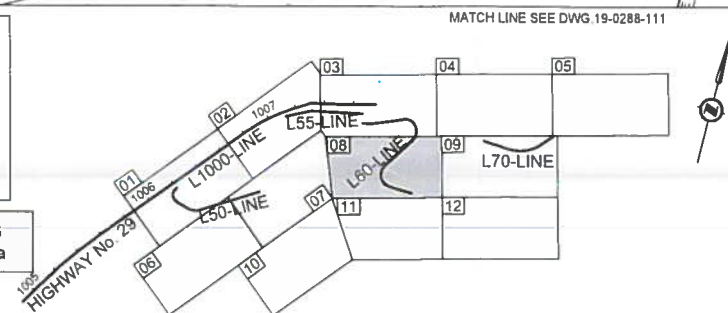
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FLOOD IMPACT LINE (FIL) - - - - -
(WIL BASED ON PRELIMINARY 1:10 000 YR LANDSLIDE)

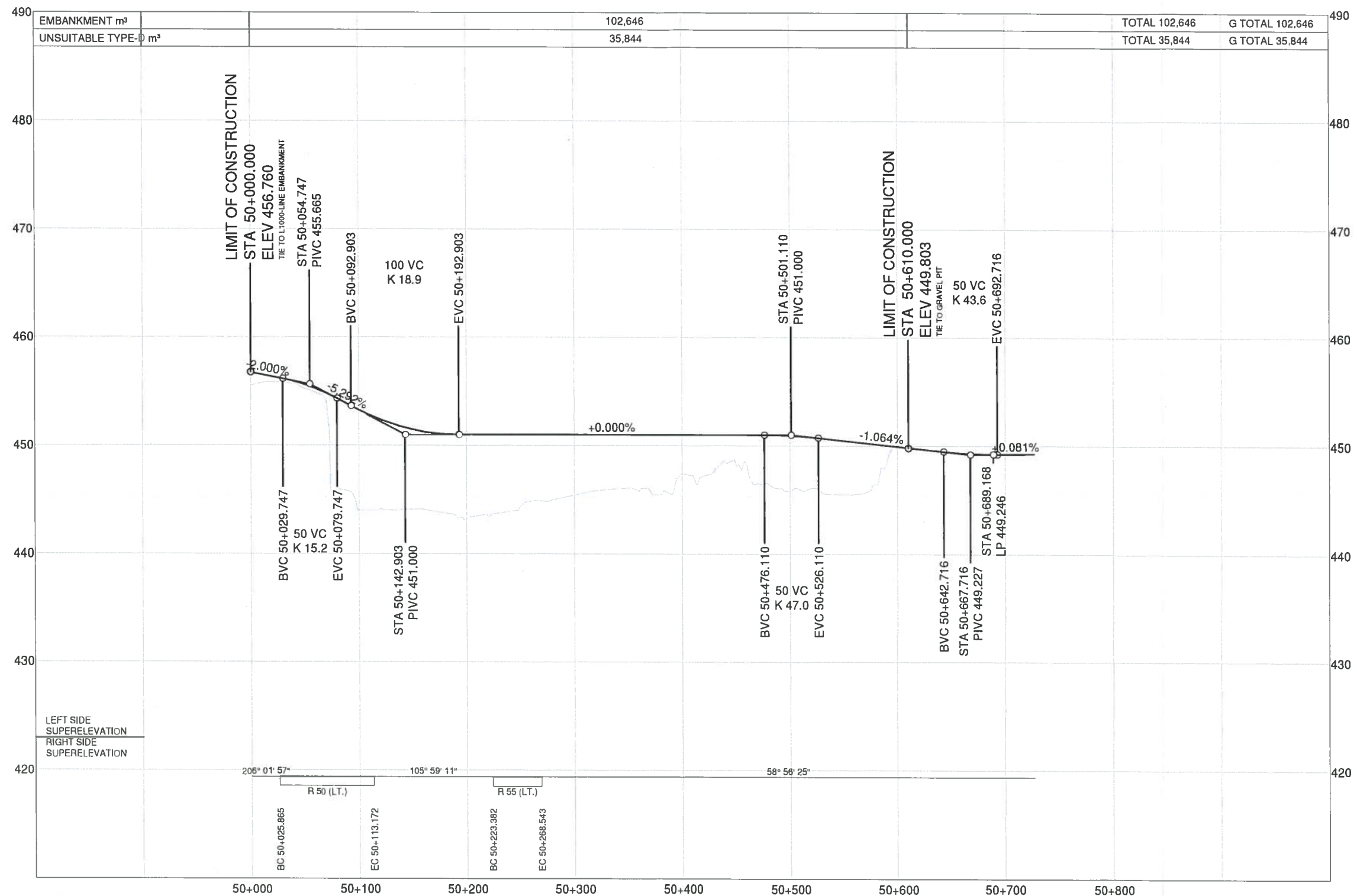
CLEARING AND GRUBBING
TOTAL THIS SHEET: 26.5 ha

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PRELIMINARY DESIGN - JUNE 26, 2019

BINNIE The people behind your infrastructure.		R.F. BINNIE & ASSOCIATES LTD. 300 4940 Canada Way, Burnaby, BC V5G 4K6 TEL 604 420 1721 BINNIE.com		MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE HIGHWAY ENGINEERING NORTHERN REGION	
SCALE 0 10 1 000 50m		CAD FILENAME 19-0288-100PL.DWG DATE 2019-06-28		PLANS AND DRAINAGE HIGHWAY NO. 29 LYNX CREEK EAST EARLY WORKS	
REV	DATE	REVISIONS	SIGNATURE	DESIGNED Z. RICKETTS DATE JUNE 2019 QUALITY CONTROL B. MANKOWSKIE DATE JUNE 2019 QUALITY ASSURANCE J. MORRIS DATE JUNE 2019 DRAWN Z. RICKETTS DATE JUNE 2019	
SENIOR DESIGNER		DATE		FILE NUMBER 19-0288 PROJECT NUMBER 37504-0000 REG 3 DRAWING NUMBER R3-336-108 REV	



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2019-500334
NOV 25 2019

By/par: **JOHN LEEDEN**
Navigation Protection Program /
Programme de protection de la navigation

- FOR PLANS
SEE DWG. R3-336-101 TO 112
- FOR ARCHAEOLOGICAL PLANS
SEE DWG. R3-336-101ARC TO 112ARC
- FOR ENVIRONMENTAL
FEATURE PLANS
SEE DWG. R3-336-101ENV TO 112ENV
- FOR PROFILES
SEE DWG. R3-336-201 TO 206
- FOR TYPICAL
SECTIONS AND DETAILS
SEE DWG. R3-336-301 TO 302

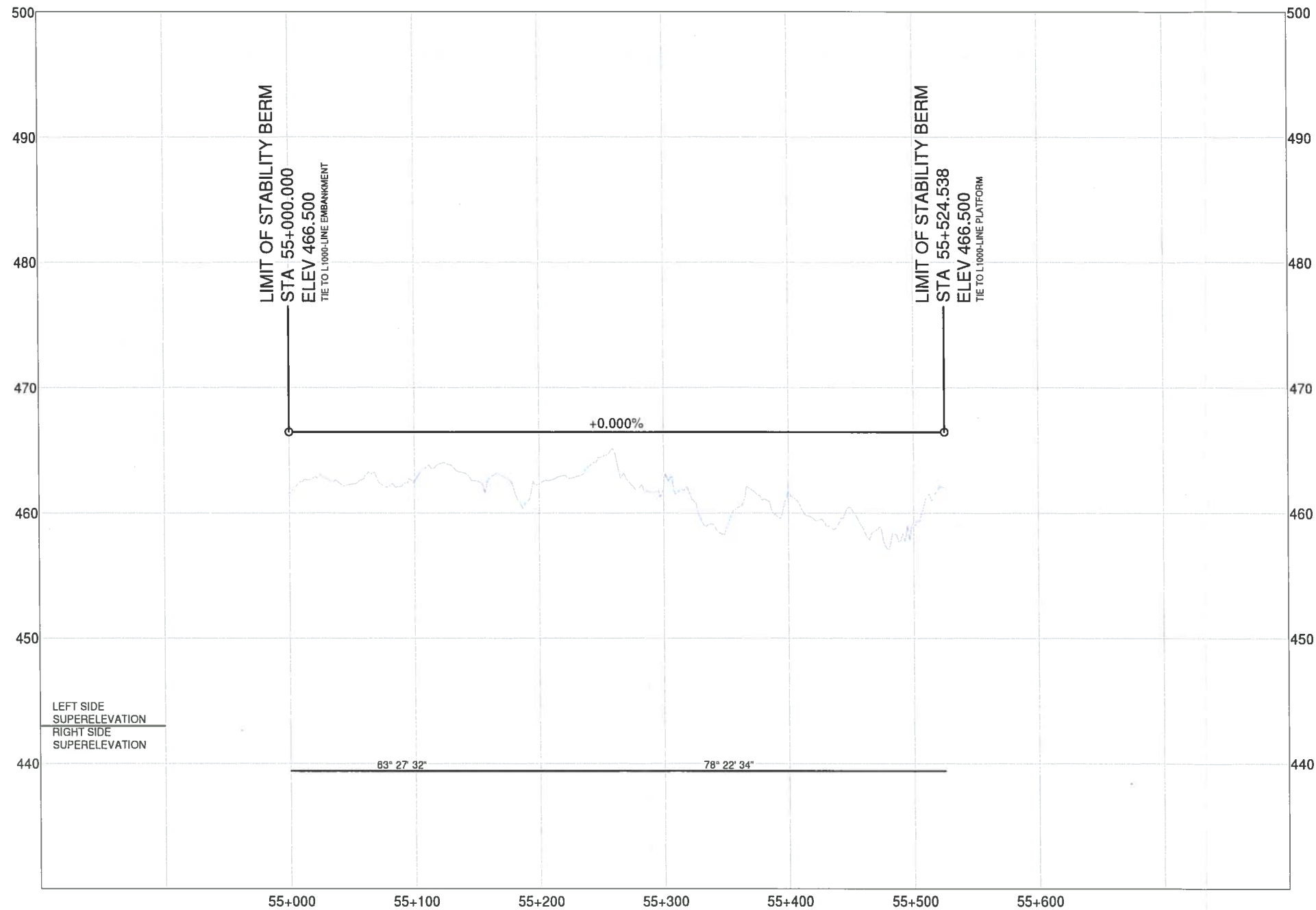
DRAFT

L50-LINE (CAUSEWAY) - DESIGN SPEED 40km/h

FUNCTIONAL DESIGN - JULY 4, 2019

BINNIE The people behind your infrastructure.		R.F. BINNIE & ASSOCIATES LTD. 101 - 1377 7th Avenue, Prince George, BC V2L 3P5 TEL 250 563 7274 BINNIE.COM		BRITISH COLUMBIA MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE HIGHWAY ENGINEERING NORTHERN REGION	
SCALE: 0 20 100m 0 2 V 1 200 10m		CAD FILENAME: 190288-200910.DWG DATE: 2019-07-02		L50-LINE PROFILE HIGHWAY NO. 29 LYNX CREEK EAST EARLY WORKS	
REV	DATE	REVISIONS	SIGNATURE	DESIGNED: Z RICHETTI DATE: JULY 2019 QUALITY CONTROL: B MANKOWSKI DATE: JULY 2019 QUALITY ASSURANCE: J MORRIS DATE: JULY 2019 DRAWN: Z RICHETTI DATE: JULY 2019	
SENIOR DESIGNER			DATE		
FILE NUMBER	PROJECT NUMBER	REG	DRAWING NUMBER	REV	
19-0288	37504-0000	3	R3-346-203		

ALIGNMENT USED FOR L1000-LINE OFFSET GEOMETRY ONLY
SEE L1000-LINE PROFILE FOR EMBANKMENT QUANTITIES



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Navigation Protection Program /
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- FOR PLANS
SEE DWG. R3-336-101 TO 112
- FOR ARCHAEOLOGICAL PLANS
SEE DWG. R3-336-101ARC TO 112ARC
- FOR ENVIRONMENTAL
FEATURE PLANS
SEE DWG. R3-336-101ENV TO 112ENV
- FOR PROFILES
SEE DWG. R3-336-201 TO 206
- FOR TYPICAL
SECTIONS AND DETAILS
SEE DWG. R3-336-301 TO 302

DRAFT

L55-LINE (STABILITY BERM)

FUNCTIONAL DESIGN - JULY 4, 2019

BINNIE The people behind your infrastructure.		R.F. BINNIE & ASSOCIATES LTD. 101 - 1577 7th Avenue, Prince George, BC V2L 3P5 TEL 250 561 7274 BINNIE.com		BRITISH COLUMBIA MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE HIGHWAY ENGINEERING NORTHERN REGION	
SCALE 0 20 100m 0 2 V 1:200 10m		CAD FILENAME 190218A-200PR.DWG DATE 2019-07-02		L55-LINE PROFILE HIGHWAY NO. 29 LYNX CREEK EAST EARLY WORKS	
REV	DATE	REVISIONS	SIGNATURE	DESIGNED <u>Z. RICHETTS</u> DATE <u>JULY 2019</u> QUALITY CONTROL <u>R. MANKOWSKI</u> DATE <u>JULY 2019</u> QUALITY ASSURANCE <u>J. MORRIS</u> DATE <u>JULY 2019</u> DRAWN <u>Z. RICHETTS</u> DATE <u>JULY 2019</u>	
				SENIOR DESIGNER DATE	
				FILE NUMBER 19-0288	PROJECT NUMBER 37504-0000
				REG 3	DRAWING NUMBER R3-346-204