

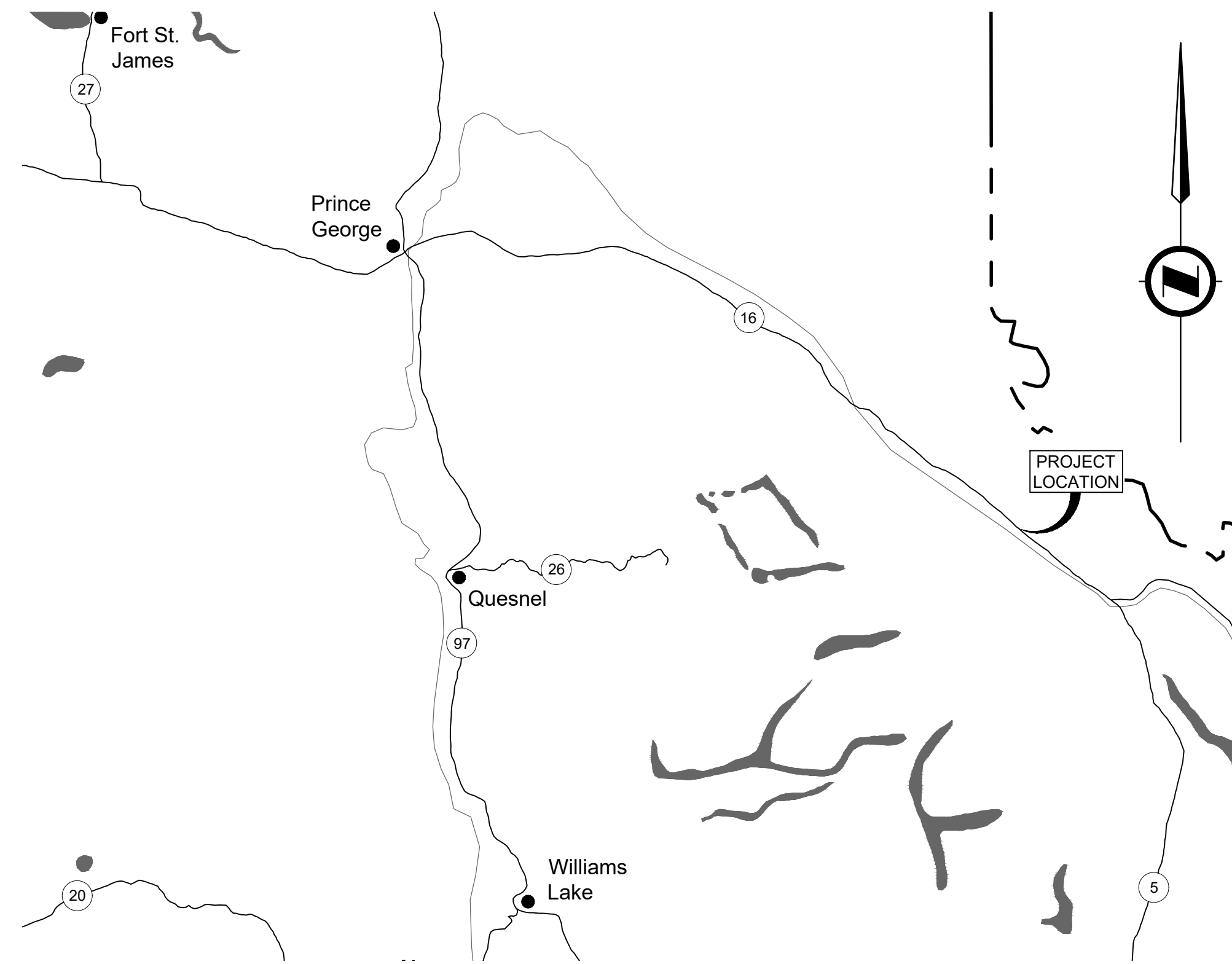


Ministry of
Transportation
and Transit

PROJECT No. 38095-0000

HIGHWAY 16

CRAIG BROOK CULVERT REPLACEMENT



LOCATION MAP
N.T.S.

DRAWING INDEX

R3-0427-001 to 002	DETOUR KEY PLAN AND LEGEND
R3-0427-101DT	DETOUR PLAN
R3-0427-201DT	DETOUR PROFILES
R3-0427-301DT	DETOUR TYPICAL SECTIONS

PROVINCE OF BRITISH COLUMBIA
MINISTRY OF TRANSPORTATION & TRANSIT

NORTHERN REGION

PROJECT NO. 38095-0000

HIGHWAY 16

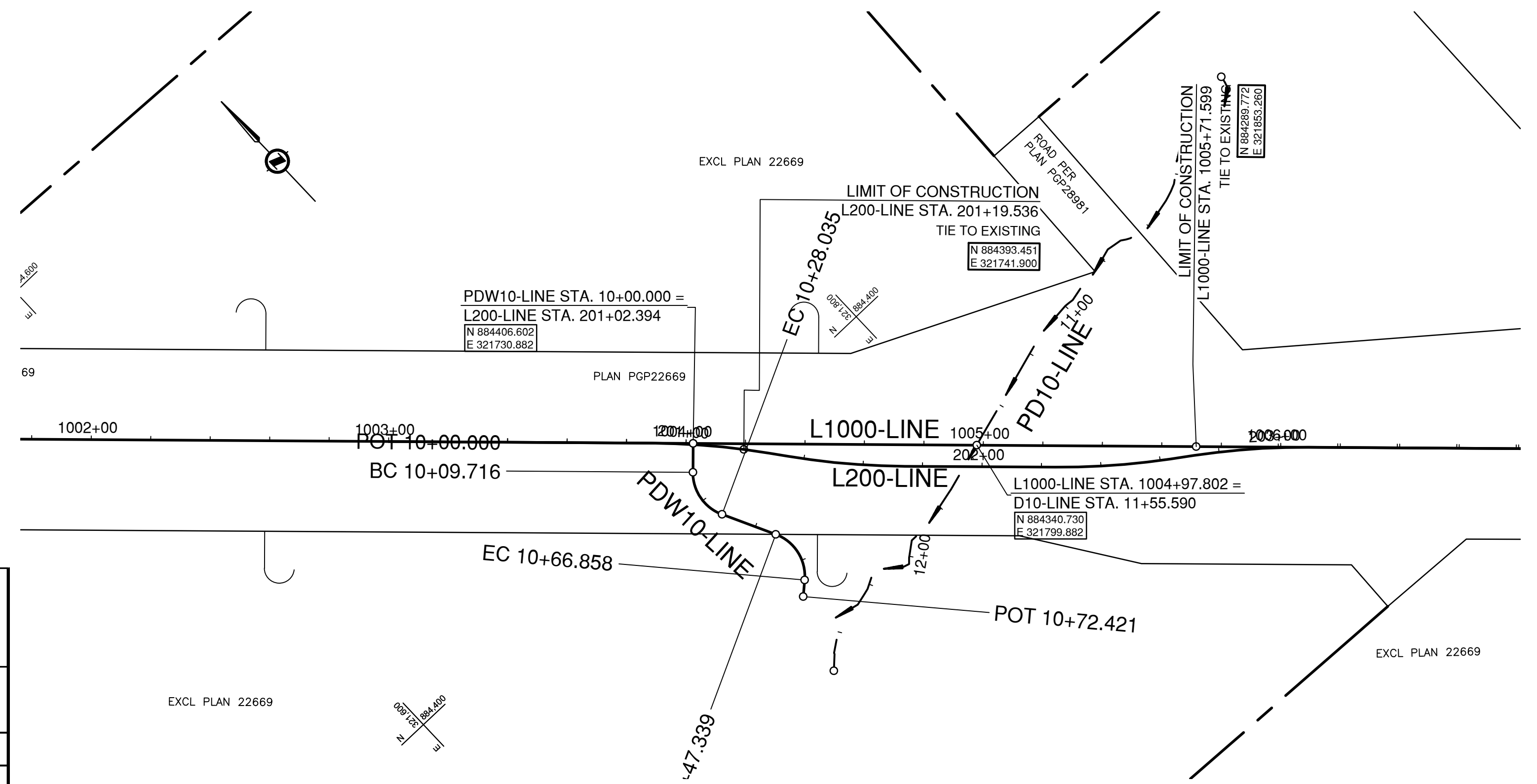
CRAIG BROOK CULVERT REPLACEMENT

STA. 997+35.355 - STA. 1005+71.599

0.837 km

LANDMARK KILOMETRE INVENTORY SEGMENT 1584

km 128.086 to km 128.923



KEY PLAN
N.T.S.

Date: September 29, 2022		Origin: Existing Survey Control - GCM997940										
Project: Unnamed Creek Culvert Replacement			Tack Point: MCSL3329		ACSF: 0.999748							
Horizontal Datum: UTM 10 N, NAD83 (CSRS)				Vertical Datum: CGVD28 HT2_0								
Point ID	Local		Orthometric Height		UTM		Ellipsoidal Height	C.S.F.	Class	Type		
	Northing	Easting	CGG2013a	HT2_0	Northing	Easting						
GCM997940	997229.162	350389.050	-	711.272	5997228.961	350390.484	699.545	0.999765	ORIGIN	BRASS CAP		
MCSL3329	996432.054	356078.726	-	690.353	5996432.054	356078.726	678.516	0.999748	STATIC	REBAR		
MCSL3330	996549.950	355469.304	-	692.997	5996549.920	355469.458	681.171	0.999750	STATIC	REBAR		
MCSL3331	996587.276	354443.368	-	692.756	5996587.237	354443.780	680.947	0.999753	STATIC	REBAR		
MCSL3332	996060.455	358666.639	-	689.793	5996060.549	358665.987	677.916	0.999739	STATIC	REBAR		
MCSL3333	996169.081	358216.220	-	690.525	5996169.147	358215.681	678.655	0.999740	STATIC	REBAR		
MCSL3334	996137.467	357729.045	-	689.979	5996137.541	357728.629	678.115	0.999742	STATIC	REBAR		

All local coordinates are derived by first scaling from the Tack Point and then removing the millionth digit from the Northing

Notes:

- * The CGG2013a Geoid uses the CGVD2013 vertical datum and the HT2_0 Geoid uses the CGVD28 vertical datum
- * Corridor control can be derived from robust network adjustments using sources such as Mascot, active, and/or PPP for valid absolute accuracies.
- * Project control originates from a corridor point and closes to a network confined within the specific project to provide survey grade relative accuracies.
- * "name"static brass cap monuments-year. "G" static tag #-year. "K" multi epoch rtk, "P"closed total station traverse.

<p>BINNIE The people behind your infrastructure.</p>		<p>R.F. BINNIE & ASSOCIATES LTD. 101 - 1577 7th Avenue, Prince George, BC V2L 3P5 TEL 250 561 7274 BINNIE.com</p>		<p>BRITISH COLUMBIA</p>		<p>MINISTRY OF TRANSPORTATION AND TRANSIT NORTHERN REGION HIGHWAY ENGINEERING AND GEOMATICS</p>	
<p>SCALE AS SHOWN</p>		<p>CAD FILENAME: 23-0162-000KP-DETOUR.DWG DATE: 2025-02-26 FILE NUMBER: 23-0162</p>		<p>KEY PLAN HIGHWAY 16 CRAIG BROOK CULVERT REPLACEMENT</p>			
REV	DATE	REVISIONS	SIGNATURE	<p>R.F. BINNIE & ASSOCIATES LTD. EGBC PERMIT TO PRACTICE NUMBER 1001128</p>		<p>DESIGNED: _____ R.M. DATE: FEB 2025 QUALITY CONTROL: _____ R.M. DATE: FEB 2025 QUALITY ASSURANCE: _____ R.M. DATE: FEB 2025 DRAWN: _____ I.C. DATE: FEB 2025</p>	
				<p>R. MANKOWSKE ENGINEER OF RECORD DATE: _____</p>		<p>PROJECT NUMBER: 38095-0000 REG: 3 DRAWING NUMBER: R3-0427-001 REV: _____</p>	

LEGEND

AERIAL UTILITIES (EXISTING)

Deadman	
Anchor / Guy Wire	
High Tension Pole	
High Tension Tower	
Power Guy Pole	
Power / Phone Guy Pole	
Power Poles	
Power Pole with Transformer	
Power / Phone Pole with Transformer	
Power / Phone Pole	
Telephone Pole	
Telephone Guy Pole	
Pedestal (B.C. Tel.)	
Telephone Booth	

SURVEY (EXISTING)

Bench Mark	
Standard Iron Pin	
Lead Plug	
Wooden Post	
Witness Post	
Reference Point	
Monument	
Aluminum Post	
Angle Iron Post	
Standard Brass Cap Monument	
Concrete Post Monument	
Dominion Iron Post	
Unmarked Measured Point	
Rock Post Monument	
Non- Standard Round Iron Post	
Non-Standard Square Iron Post	
Detail Hub (etc.)	
Spot Elevation	

DETAIL (EXISTING)

Septic Field	
Concrete Pillar	
Guard Post	
Piling	
Gate Post	
Swamp	
Road Sign	
Well	
Tree	
Decorative Tree	
Delineator Post	
Flag Pole	
Mail Box	
Top of Bank	

DRAINAGE (EXISTING)

Catch Basin / Manhole	
Culvert Outlet	
Culvert Inlet	
Culvert Headwall	
Drainage Grate	
Manhole	
Catch Basin	
Culvert Kink	
Asphalt Spillway	

METERS (EXISTING)

Service Meter	
Water Meter	
Valve	
Water valve	
Fire Hydrant	
Gas Valve	

UNDERGROUND (EXISTING)

Filler Cap	
Fuel / Gas Pump	
Fuel Tank	
Septic Tank	
Underground Marker	
Breather / Vent Pipe	

ELECTRICAL (EXISTING)

Traffic Signal Control Box	
Electrical Outlet	
Junction Box	
Kiosk	
Lamp Standard	
Traffic Signal	
Traffic Counter	

LEGAL LINETYPES (EXISTING)

International Bdy.	
Section / District Bdy.	
Parcel Boundary / Old road R/W	
Quarter Section	
Easement	
Agricultural Land Reserve	

MAN MADE FEATURES LINETYPES (EXISTING)

Crown of Existing Road	
Edge of Pavement	
Concrete Barrier	
Dirt Road / Driveway	
Fence	
Gravel Road / Driveway	
Hedge / Bush / Tree Line	
Railway	
Retaining Wall	
Guard Rail	
Paint Lines - Solid	
Paint Lines - Dashed	

UNDERGROUND UTILITIES LINETYPES (EXISTING)

Gas Main	
Oil	
Sanitary Sewer Line	
Storm / Sewer Drain	
Electrical Cable	
Miscellaneous	
Telephone Cable	
Water Main	
Culvert	

OVERHEAD UTILITIES LINETYPES (EXISTING)

High Tension Wire	
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HYDRAULIC LINETYPES (EXISTING)

Creek / Ditch / Stream	
Edge of Water	
Major Catchment Boundary	
Sub-Catchment Boundary	

GEOTECHNICAL (EXISTING)

Pavement Core With Label		PV07-01
Test Pit With Label		TP07-01
Drill Hole With Label		DH07-01

DRAINAGE (PROPOSED)

Catch Basin	
Deck Drain	
Manhole	
Asphalt Spillway	
Ditch Inlet Structure	
Ditch Block	
Cleanout	
Asphalt Swale	
Special Ditching	
Culvert Outfall with Riprap Apron	
Culvert Headwall	
Riprap	

SIGNS (PROPOSED)

Road Sign (Single Pole)	
Road Sign (Double Pole)	
Post Mounted Delineator	
Commercial Message Sign	

LEGAL LINETYPES (PROPOSED)

Highway Right of Way	
Easement	

CONSTRUCTION DETAILS LINETYPES (PROPOSED)

Berm	
Clearing and Grubbing	
Pavement Sawcut Line	
Surplus Excavation Disposal Area	
Subgrade Pre-Build	

SURFACE (PROPOSED)

Centerline Alignment	
Edge of Pavement	
Concrete Barrier	
Slope Stake Line	
Fence	
Retaining Wall	
Paint Lines - Solid	
Paint Lines - Dashed	
Curb Line	
Trail	

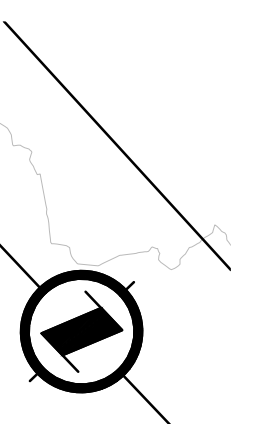
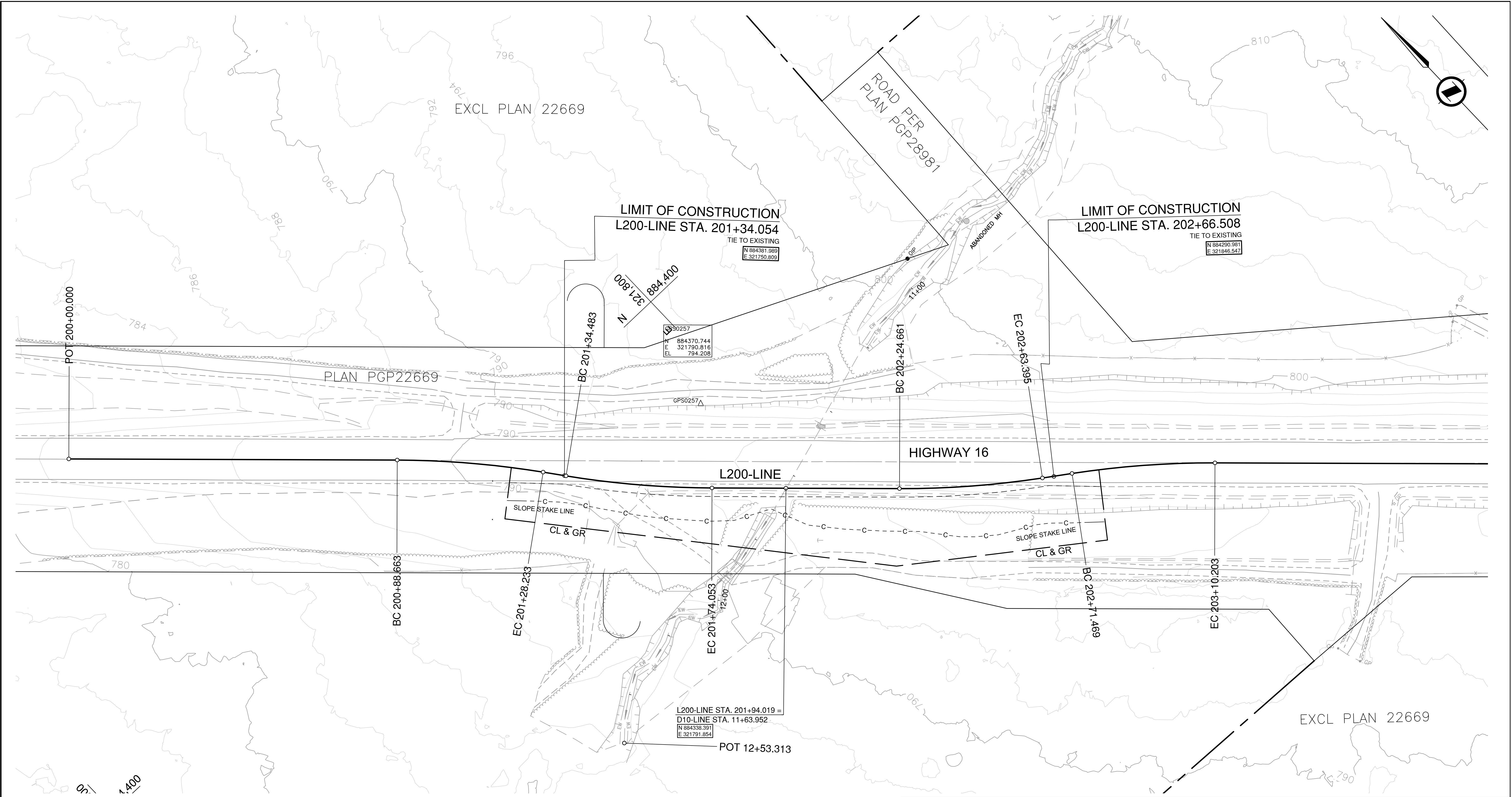
UNDERGROUND (PROPOSED)

Gas Main	
Oil	
Sanitary Sewer Line	
Storm / Sewer Drain	
Electrical Cable	
Miscellaneous	
Telephone Cable	
Water Main	
Culvert	

PAVEMENT TREATMENT (PROPOSED)

Pavement Removal	
Pavement Rubblization	
50mm Depth Mill and Fill	
50mm Depth Mill and 100mm Fill	
50mm Pavement Overlay	

		R.F. BINNIE & ASSOCIATES LTD. 101 - 1577 7th Avenue, Prince George, BC V2L 3P5 TEL 250 561 7274 BINNIE.com				MINISTRY OF TRANSPORTATION AND TRANSIT NORTHERN REGION HIGHWAY ENGINEERING AND GEOMATICS	
SCALE 0 10 1:1000 50m		CAD FILENAME 23-0162-000KP-DET0UR.DWG		DATE 2025-02-26		LEGEND HIGHWAY 16 CRAIG BROOK CULVERT REPLACEMENT	
FILE NUMBER 23-0162		REVISIONS		SIGNATURE		DESIGNED _____ R.M. DATE FEB 2025	
REV _____ DATE _____		_____		_____		QUALITY CONTROL _____ R.M. DATE FEB 2025	
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_____		_____		_____		DRAWN _____ I.C. DATE FEB 2025	
_____		_____		_____		PROJECT NUMBER 38095-0000	
_____		_____		_____		REG 3	
_____		_____		_____		DRAWING NUMBER R3-0427-002	
_____		_____		_____		REV _____	
_____		_____		_____		R.F. BINNIE & ASSOCIATES LTD. EGBC PERMIT TO PRACTICE NUMBER 1001128	
_____		_____		_____		R. MANKOWSKIE ENGINEER OF RECORD DATE 2025-02-28	



NOTES:

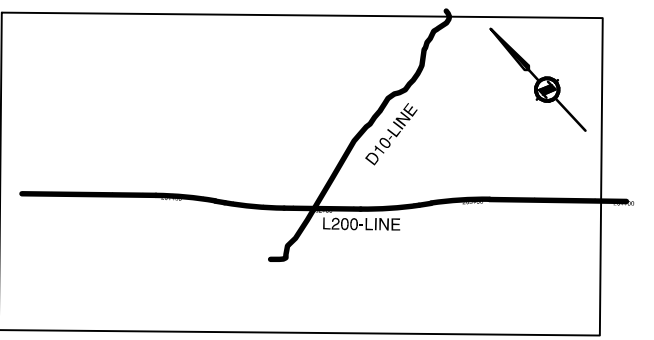
1. BASE MAPPING CREATED FROM GROUND SURVEY COMPLETED ON APRIL 15, 2022.
2. UTILITIES AS SHOWN ON THE DRAWINGS MAY BE INCOMPLETE OR INACCURATE. THE CONTRACTOR MUST FIELD VERIFY THE LOCATIONS PRIOR TO COMMENCING WORK.
3. CLEAR AND GRUB TO PROPOSED RIGHT OF WAY UNLESS OTHERWISE SHOWN.

FOR DETOUR PLAN
SEE DWG. R3-0427-101DT

FOR DETOUR PROFILES
SEE DWG. R3-0427-201DT

FOR DETOUR TYPICAL SECTIONS
SEE DWG. R3-0427-301DT

CLEARING AND GRUBBING
TOTAL THIS SHEET: 0.8715ha



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BRITISH COLUMBIA

MINISTRY OF TRANSPORTATION AND TRANSIT
NORTHERN REGION
HIGHWAY ENGINEERING AND GEOMATICS

SCALE 0 5 1:500 25m

CAD FILENAME: 23-0162-100PL-DETOUR.DWG
DATE: 2025-02-26
FILE NUMBER: 23-0162

REV	DATE	REVISIONS	SIGNATURE

L200-LINE DETOUR PLAN
HIGHWAY 16
CRAIG BROOK CULVERT REPLACEMENT

R.F. BINNIE & ASSOCIATES LTD.
EGBC PERMIT TO PRACTICE
NUMBER 1001128

R. MANKOWSKE
ENGINEER OF RECORD
DATE 2025-02-28

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QUALITY ASSURANCE	R.M.	DATE	FEB. 2025
DRAWN	I.C.	DATE	FEB. 2025
PROJECT NUMBER	REG	DRAWING NUMBER	REV
38095-0000	3	R3-0427-101DT	

Feb. 26, 2025 05:15 PM P:\2023\23-0162-100 - CAD Files\Highway\Engineering\Drawings\Production\100_Planes\20162-100PL-DETOUR

