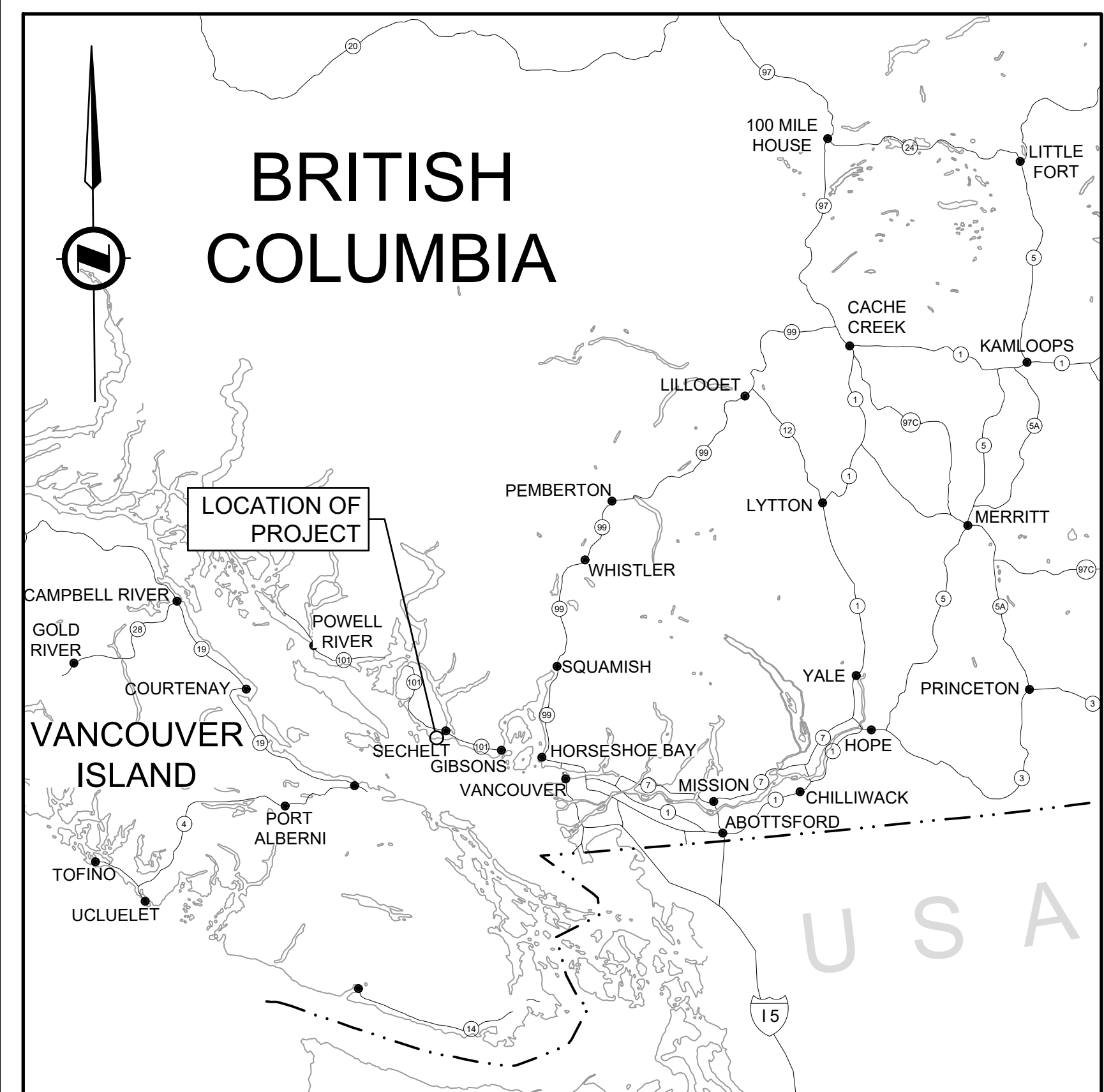


PLOT DATE: 2023/03/02 U:\Projects\_SUR\1961\0480\14\0-Design\CAD\DrawingProduction\EnvironmentalDrawings\R1-1027-000-Enviro.dwg



LOCATION MAP  
N.T.S.



Ministry of  
Transportation  
and Infrastructure

PROJECT NO. 14005

# FLUME CREEK DFAA FLOOD DAMAGE ENVIRONMENTAL PERMITS

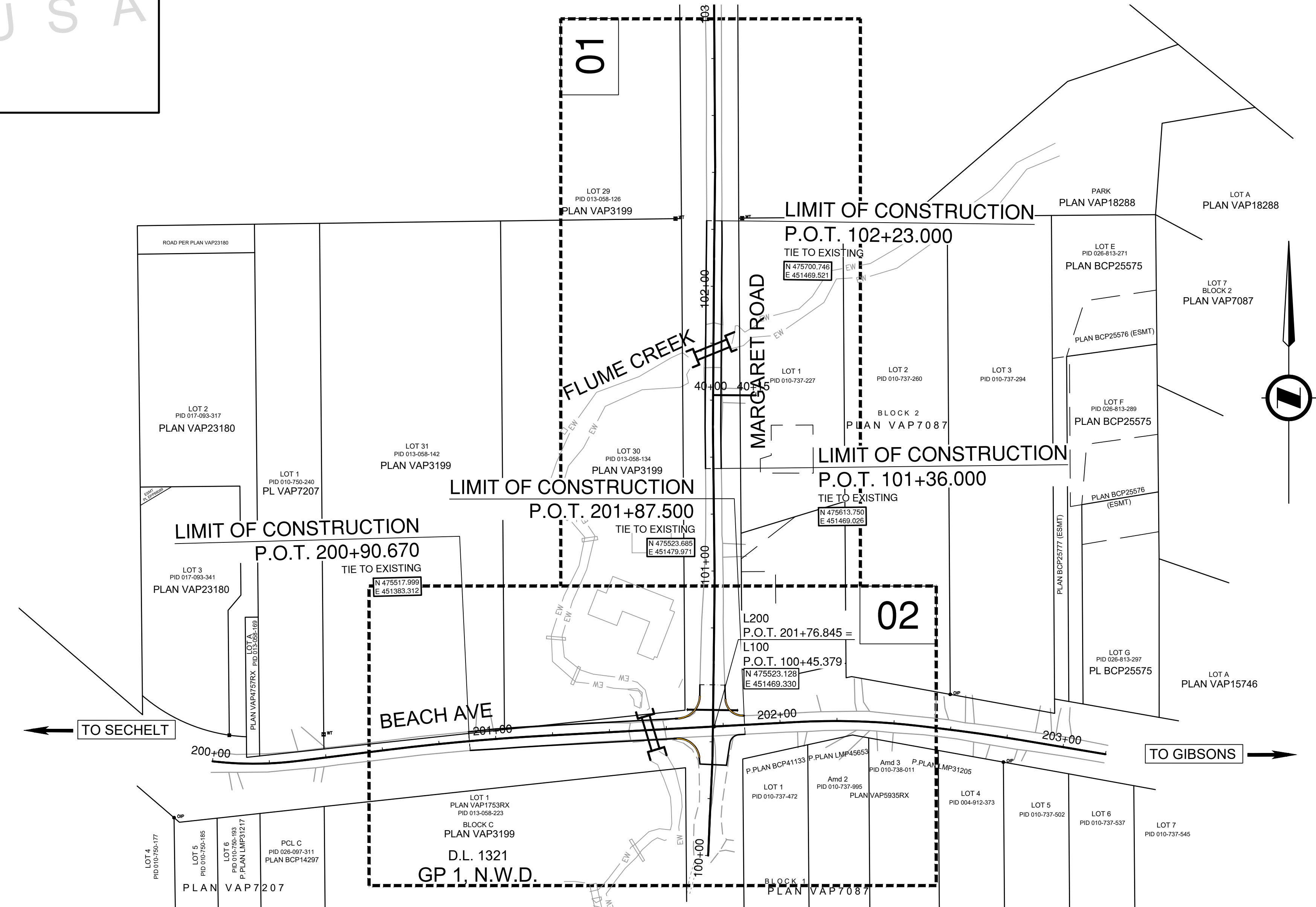
MARGARET RD: STA. 101+36.000 - STA. 102+25.000 (0.89 km)

BEACH AVE: STA. 201+11.539 - STA. 201+70.693 (0.59 km)

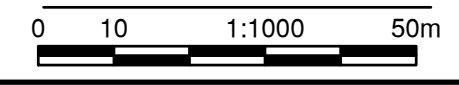
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## GRADING AND DRAINAGE CONTRACT

DRAWING INDEX	
R1-1027-001	KEY PLAN
R1-1027-002	LEGEND
R1-1027-101 to 102	PLAN
R1-1027-701 to 703	DRAINAGE AND DETAILS



KEY PLAN



DRAWING NUMBER REV  
R1-1027-001-ENVIRQ



# LEGEND

## SYMBOLS (EXISTING)

AERIAL UTILITIES	DRAINAGE & UTILITIES
POWER POLE	CULVERT OUTLET
POWER POLE WITH TRANSFORMER	SANITARY MANHOLE
POWER / TELEPHONE POLE WITH TRANSFORMER	UTILITY MANHOLE
POWER GUY POLE	WATER MANHOLE
POWER / TELEPHONE POLE	MANHOLE UNKNOWN
POWER / TELEPHONE GUY POLE	
ANCHOR OR GUY WIRE	
DEADMAN	
TELEPHONE POLE	
TELEPHONE GUY POLE	
HIGH TENSION POLE	
HIGH TENSION TOWER	
UTILITY POLE	
	<b>ELECTRICAL</b>
	JUNCTION BOX
	UTILITY VAULT
	LAMP STANDARD
	UTILITY KIOSK
	UTILITY PEDESTAL
	TRAFFIC COUNTER
	TRAFFIC SIGNAL
	TRAFFIC SIGNAL CONTROLLER
	<b>METERS</b>
	VALVE
	WATER VALVE
	WATER METER
	FIRE HYDRANT
	WELL
	STANDPIPE / WATER BLOW OFF
	AIR VALVE
	GAS VALVE
	SERVICE METER
	<b>UNDERGROUND</b>
	VENT/BREATHING PIPE
	FILLER CAP
	FUEL / GAS PUMP
	FUEL TANK
	SEPTIC TANK
	UNDERGROUND MARKER (MISC)
	<b>ROAD SIGNS</b>
	STANDARD SIGN
	COMMERCIAL SIGN
	SIGN BRIDGE STRUCTURE
	CANTILEVER STRUCTURE
	TWO POST SIGN
	TWO POST SIGN (BREAKAWAY)
	STANDARD DAVIT POLE - TYPE 3
	STANDARD COMBINATION POLE - TYPE 1
	HEAVY DUTY DAVIT POLE - TYPE 6
	HEAVY DUTY COMBINATION POLE - TYPE 7
	HEAVY POLE - TYPE H
	HEAVY COMBINATION POLE - TYPE H
	CANTILEVER STRUCTURE
	SIGN BRIDGE STRUCTURE
	<b>UNDERGROUND</b>
	VENT/BREATHING PIPE
	FILLER CAP
	FUEL / GAS PUMP
	FUEL TANK
	SEPTIC TANK
	UNDERGROUND MARKER (MISC)
	IRRIGATION JUNCTION BOX
	IRRIGATION SPRINKLER HEAD
	<b>ROAD SIGNS</b>
	STANDARD SIGN
	COMMERCIAL SIGN
	SIGN BRIDGE STRUCTURE
	CANTILEVER STRUCTURE
	TWO POST SIGN
	TWO POST SIGN (BREAKAWAY)
	STANDARD DAVIT POLE - TYPE 3
	STANDARD COMBINATION POLE - TYPE 1
	HEAVY DUTY DAVIT POLE - TYPE 6
	HEAVY DUTY COMBINATION POLE - TYPE 7
	HEAVY POLE - TYPE H
	HEAVY COMBINATION POLE - TYPE H

## LINE TYPES (EXISTING)

SECTION LINE / DISTRICT LOT	LOT BOUNDARIES
SECTION LINE / DISTRICT LOT	LOT BOUNDARIES
1/4 SECTION BOUNDARY	1/4 SECTION BOUNDARY
LOT BOUNDARY	LOT BOUNDARY
EASEMENTS	EASEMENTS

## LINE TYPES (EXISTING)

MAN-MADE FEATURES	HYDRAULIC	TOPOGRAPHY	UTILITIES
RAILWAY TRACKS	CULVERT	BASE OF SLOPE	OVERHEAD UTILITY
RAILWAY BALLAST	DITCH CENTER	MARSH	PIPELINE (GAS)
ROAD MARKING - YELLOW	DITCH EDGE	SLIDE	UG ELECTRIC
ROAD MARKING - WHITE	CENTER OF CREEK	TALUS	UG COMMUNICATION
ROAD MARKING - BROKEN	HIGH WATER	TRAIL	STORM SEWER
CROSSWALK	EDGE OF WATER		SANITARY SEWER
STOP LINE	HIGH WATER MARK (EXTREME)		WATER MAIN
EDGE OF ROAD - PAVED			MISCELLANEOUS UNDERGROUND
EDGE OF ROAD GRAVEL			
GRAVEL SHOULDER			
DIRT ROAD			
GRAVEL ROAD			
EDGE OF GRAVEL			
SIDEWALK			
CONCRETE PAD			
FENCE			
TOP OF CURB			
CL OF GUTTER			
CONCRETE ROAD BARRIER			
TOP OF FILL			
RIP RAP			
BUILDING			
TREE LINE			
LAWN LINE			



## SYMBOLS (PROPOSED)

AERIAL UTILITIES	METERS
POWER POLE	VALVE
POWER POLE WITH TRANSFORMER	WATER VALVE
POWER / TELEPHONE POLE WITH TRANSFORMER	WATER METER
POWER GUY POLE	FIRE HYDRANT
POWER / TELEPHONE POLE	STANDPIPE / WATER BLOW OFF
POWER / TELEPHONE GUY POLE	AIR VALVE
ANCHOR OR GUY WIRE	GAS VALVE
DEADMAN	SERVICE METER
TELEPHONE POLE	
TELEPHONE GUY POLE	
HIGH TENSION POLE	
HIGH TENSION TOWER	
	<b>UNDERGROUND</b>
	VENT/BREATHING PIPE
	FILLER CAP
	FUEL / GAS PUMP
	FUEL TANK
	SEPTIC TANK
	UNDERGROUND MARKER (MISC)
	<b>ROAD SIGNS</b>
	STANDARD SIGN
	BARRIER MOUNTED DELINEATOR
	RELOCATED OVERHEAD SIGN
	TWO POST SIGN
	TWO POST SIGN (BREAKAWAY)
	STANDARD DAVIT POLE - TYPE 3
	STANDARD COMBINATION POLE - TYPE 1
	HEAVY DUTY DAVIT POLE - TYPE 6
	HEAVY DUTY COMBINATION POLE - TYPE 7
	HEAVY POLE - TYPE H
	HEAVY COMBINATION POLE - TYPE H
	CANTILEVER STRUCTURE
	SIGN BRIDGE STRUCTURE
	<b>PATTERNS</b>
	LEVELLING COURSE
	PAVEMENT REMOVAL
	RIPRAP
	TURF REINFORCEMENT MATTING
	<b>REMOVALS / RELOCATES</b>
	POWER POLE
	TELEPHONE POLE
	HIGHWAY SIGNS
	<b>DETAIL</b>
	GATE POST
	MAILBOX
	POST
	POST MOUNTED DELINEATOR
	FLAGPOLE
	DIRECTIONAL ARROW
	<b>DRAINAGE &amp; UTILITIES</b>
	MANHOLE
	STORM MANHOLE
	STANDARD CATCH BASIN
	VARIABLE DEPTH CATCH BASIN
	SPILLWAY
	HEADWALL
	DRYWELL
	TELEPHONE MANHOLE
	POWER MANHOLE
	SANITARY MANHOLE
	UTILITY MANHOLE
	WATER MANHOLE
	MANHOLE UNKNOWN
	<b>ELECTRICAL</b>
	JUNCTION BOX
	UTILITY VAULT
	LAMP STANDARD
	UTILITY KIOSK
	UTILITY PEDESTAL
	TRAFFIC SIGNAL
	TRAFFIC SIGNAL CONTROLLER
	UNDERGROUND ELECTRICAL TRANSFORMER

## LINE TYPES (PROPOSED)

FEATURES
HIGHWAY CONTROL LINE
MINOR CONTROL LINE
CLEARING AND GRUBBING
PAVEMENT EDGE
SHOULDER EDGE
CURB AND GUTTER
RAISED ISLAND
SAWCUT
RUMBLE STRIP
RETAINING WALL
FENCE
TOP OF CUT / BOTTOM OF FILL (TOES)
100mm - YELLOW PAINT LINE (SOLID)
100mm - WHITE PAINT LINE (SOLID)
100mm - CONTINUITY PAINT LINE (BROKEN)
100mm - LANE PAINT LINE (BROKEN)
CONCRETE BARRIER
DITCH CENTER / ADDITIONAL DITCHING
DITCH EDGE
<b>BOUNDARIES</b>
RIGHT OF WAY
TEMPORARY LICENCE TO CONSTRUCT
<b>UTILITIES</b>
OVERHEAD UTILITY
PIPELINE (GAS)
SERVICE LINE (GAS)
UG ELECTRIC
UG COMMUNICATION
STORM SEWER
SUB DRAIN
CULVERT
SANITARY SEWER
WATER MAIN
MISCELLANEOUS UNDERGROUND

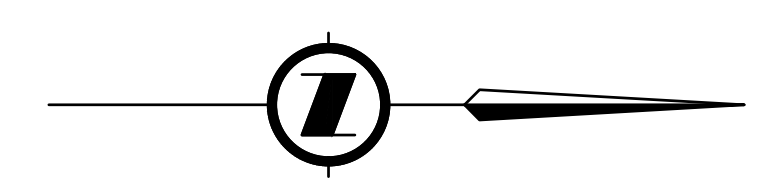
**NOTE:**  
NOT ALL SYMBOLS AND LINE TYPES ILLUSTRATED IN THIS LEGEND ARE UTILIZED IN THE FOLLOWING DESIGN

**FOR ENVIRONMENTAL PERMITTING**

PLOT DATE: 2023/03/02 U:\Projects\_SUR\1961\0480\14\0-Design\CAD\DrawingProduction\EnvironmentalDrawings\R1-1027-000-Enviro.dwg

SCALE		CAD FILENAME: R1-1027-000-ENVIRQ PLOT DATE: 2023-03-02		MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE SOUTH COAST REGION HIGHWAY ENGINEERING AND GEOMATICS		<b>PLAN</b> FLUME CREEK DFAA FLOOD DAMAGE	
REV	DATE	REVISIONS	NAME	CODY BAGG, P.ENG. SENIOR DESIGNER	DESIGNED: S.CAVASINNI DATE: 2023-03-02	QUALITY CONTROL: C.BAGG DATE: 2023-03-02	QUALITY ASSURANCE: J.BORCH DATE: 2023-03-02
					DRAWN: E.PROULX DATE: 2023-03-02	FILE NUMBER: 872CS1714	PROJECT NUMBER: 14005
						REG: 1	DRAWING NUMBER: R1-1027-002-ENVIRQ





Flume Creek - Margaret Road culvert Outlet - Looking downstream.  
Photo captured: 2023-01-11

MARGARET ROAD

LIMIT OF CONSTRUCTION  
P.O.T. 101+36.000  
TIE TO EXISTING

LIMIT OF CONSTRUCTION  
P.O.T. 102+23.000  
TIE TO EXISTING

CULVERT 1 - LOW FLOW CULVERT  
12.5m W2700xH1800 CONC  
STA. 101+76.529  
E. INV. 8.797  
W. INV. 8.957

CULVERT 2 - HIGH FLOW CULVERT  
12.5m W2100xH1500 CONC  
STA. 101+79.615  
E. INV. 9.097  
W. INV. 9.407

POTENTIAL INSTREAM WORKS DUE TO  
TEMPORARY DITCH INFILL AND CULVERT  
INSTALLATION FOR CRANE PAD

POTENTIAL CRANE  
PAD LOCATION

POTENTIAL DITCH CULVERT  
UNDER CRANE PAD

REMOVE TREES

OUTLET HIGHWATER  
MARK ELEVATION  
9.4m

INLET HIGHWATER  
MARK ELEVATION  
10.5m

CONCRETE HEADWALL  
SEE DWG. R1-1027-701  
FOR DETAILS (TYP.)

450mm THICK CLASS 25kg RIP RAP  
SEE DWG. R1-1027-701 FOR DETAILS (TYP.)

PLAN  
EPP121267 (COV)

LOT A  
PID 031-806-643  
PLAN EPP121266

LOT B  
PID 031-806-651  
PLAN EPP121266

LOT 2  
PID 010-737-260



Flume Creek - Margaret Road culvert Inlet - Looking upstream.  
Photo captured: 2022-10-17

LOT B  
PID 007-194-927  
PLAN VAP18288

D.L. 1318  
GP 1, N.W.D.

Approx. edge of water

- RETAINED AND ENHANCED  
INSTREAM AREA = 72 m<sup>2</sup>
- WORK BELOW HWM = 239m<sup>2</sup>
- PERMANENT RIPARIAN  
DISTURBANCE = 9 m<sup>2</sup>
- TEMPORARY RIPARIAN  
DISTURBANCE = 746 m<sup>2</sup>
- TOTAL PROJECT AREA = 2160 m<sup>2</sup>
- CL & GR TOTAL THIS DWG = 1447 m<sup>2</sup>

FOR DRAINAGE AND UTILITIES  
SEE DWG R1-1027-701 TO R1-1027-702

**LEGEND**

RIPRAP

CHANNEL BOTTOM -  
RIPRAP TOP DRESSED WITH  
FISHERIES GRAVELS

HIGH WATERMARK

SCALE 0 2 1:250 12m

CAD FILENAME R1-1027-100-ENVIR0  
PLOT DATE 2023-03-02

REV	DATE	REVISIONS	NAME

**BRITISH COLUMBIA**

MINISTRY OF TRANSPORTATION  
AND INFRASTRUCTURE  
SOUTH COAST REGION  
HIGHWAY ENGINEERING AND GEOMATICS

CODY BAGG, P.ENG.  
SENIOR DESIGNER

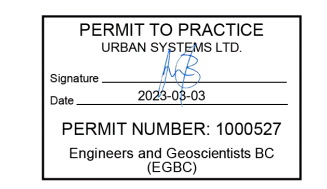
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QUALITY CONTROL C.BAGG DATE 2023-03-02  
QUALITY ASSURANCE J.BORCH DATE 2023-03-02  
DRAWN E.PROULX DATE 2023-03-02

FOR ENVIRONMENTAL PERMITTING

PLAN  
FLUME CREEK  
DFAA FLOOD DAMAGE  
STA. 100+36.000 TO 102+23.000

FILE NUMBER 872CS1714	PROJECT NUMBER 14005	REG 1	DRAWING NUMBER R1-1027-101-ENVIR0
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PLOT DATE: 2023/03/02 U:\Projects\_SUR\1961\0480\14\0-Design\CAD\DrawingProduction\EnvironmentalDrawings\R1-1027-100-Enviro.dwg







Culvert inlet



Culvert outlet



LIMIT OF CONSTRUCTION  
P.O.T. 200+90.670  
TIE TO EXISTING  
N 475518.007  
E 451383.311

PLAN EPP121267 (COV)  
LIMIT OF CONSTRUCTION  
P.O.T. 201+87.500  
TIE TO EXISTING  
N 163479.970  
E 163479.970

LOT 2  
PID 010-737-260

LOT B  
PID 031-806-651  
PLAN EPP121266

LOT 1  
PLAN VAP1753RX  
PID 013-058-223  
BLOCK C  
PLAN VAP3199  
D.L. 1321  
GP 1, N.W.D.

18.0m 900 DIA HDPE w/  
300mm EMBEDMENT  
STA. 201+76.756  
E. INV. 6.29  
W. INV. 5.99

INLET HIGHWATER  
MARK ELEVATION  
6.3m

CL&GR  
131.88m<sup>2</sup>  
252.45m<sup>2</sup>  
3.15m<sup>2</sup>  
10.11m<sup>2</sup>

POTENTIAL TEMPORARY  
DIVERSION LOCATION

202+00

REMOVE TREES

OUTLET HIGHWATER  
MARK ELEVATION  
5.3m

100+00

21.490m<sup>2</sup>  
329.95m<sup>2</sup>  
7.22m<sup>2</sup>  
69.30m<sup>2</sup>  
29.88m<sup>2</sup>  
9.78m<sup>2</sup>

CULVERT 2 - HIGH FLOW CULVERT  
13.0m W2100xH1500 CONG  
STA. 201+52.667  
N. INV. 5.155  
S. INV. 4.693

CULVERT 1 - LOW FLOW CULVERT  
13.0m W2700xH1800 CONG  
STA. 201+55.602  
N. INV. 4.705  
S. INV. 4.393

CONCRETE HEADWALL  
SEE DWG. R1-1027-702  
FOR DETAILS (TYP.)

450mm THICK CLASS 25kg RIP RAP  
SEE DWG. R1-1027-702  
FOR DETAILS (TYP.)

PAVEMENT EDGE  
EDGE OF GRAVEL

POTENTIAL CRANE  
PAD LOCATION

- RETAINED AND ENHANCED  
INSTREAM AREA = 40 m<sup>2</sup>
- WORK BELOW HWM = 202 m<sup>2</sup>
- PERMANENT DISTURBANCE ON  
WASHED OUT AREAS = 22 m<sup>2</sup>
- PERMANENT RIPARIAN  
DISTURBANCE = 21 m<sup>2</sup>
- TEMPORARY RIPARIAN  
DISTURBANCE = 583 m<sup>2</sup>
- TOTAL PROJECT AREA = 2219 m<sup>2</sup>
- CL & GR TOTAL THIS DWG 1399 m<sup>2</sup>

FOR DRAINAGE AND UTILITIES  
SEE DWG R1-1027-701 to R1-1027-702

**LEGEND**

RIPRAP	
CHANNEL BOTTOM - RIPRAP TOP DRESSED WITH FISHERIES GRAVELS	
HIGH WATERMARK	



SCALE 0 2 1:250 12m

CAD FILENAME R1-1027-100-ENVIRQ  
PLOT DATE 2023-03-02

REV	DATE	REVISIONS	NAME

BRITISH COLUMBIA  
MINISTRY OF TRANSPORTATION  
AND INFRASTRUCTURE  
SOUTH COAST REGION  
HIGHWAY ENGINEERING AND GEOMATICS

CODY BAGG, P.ENG.  
SENIOR DESIGNER

DESIGNED S.CAVASINNI DATE 2023-03-02  
QUALITY CONTROL C.BAGG DATE 2023-03-02  
QUALITY ASSURANCE J.BORCH DATE 2023-03-02  
DRAWN E.PROULX DATE 2023-03-02

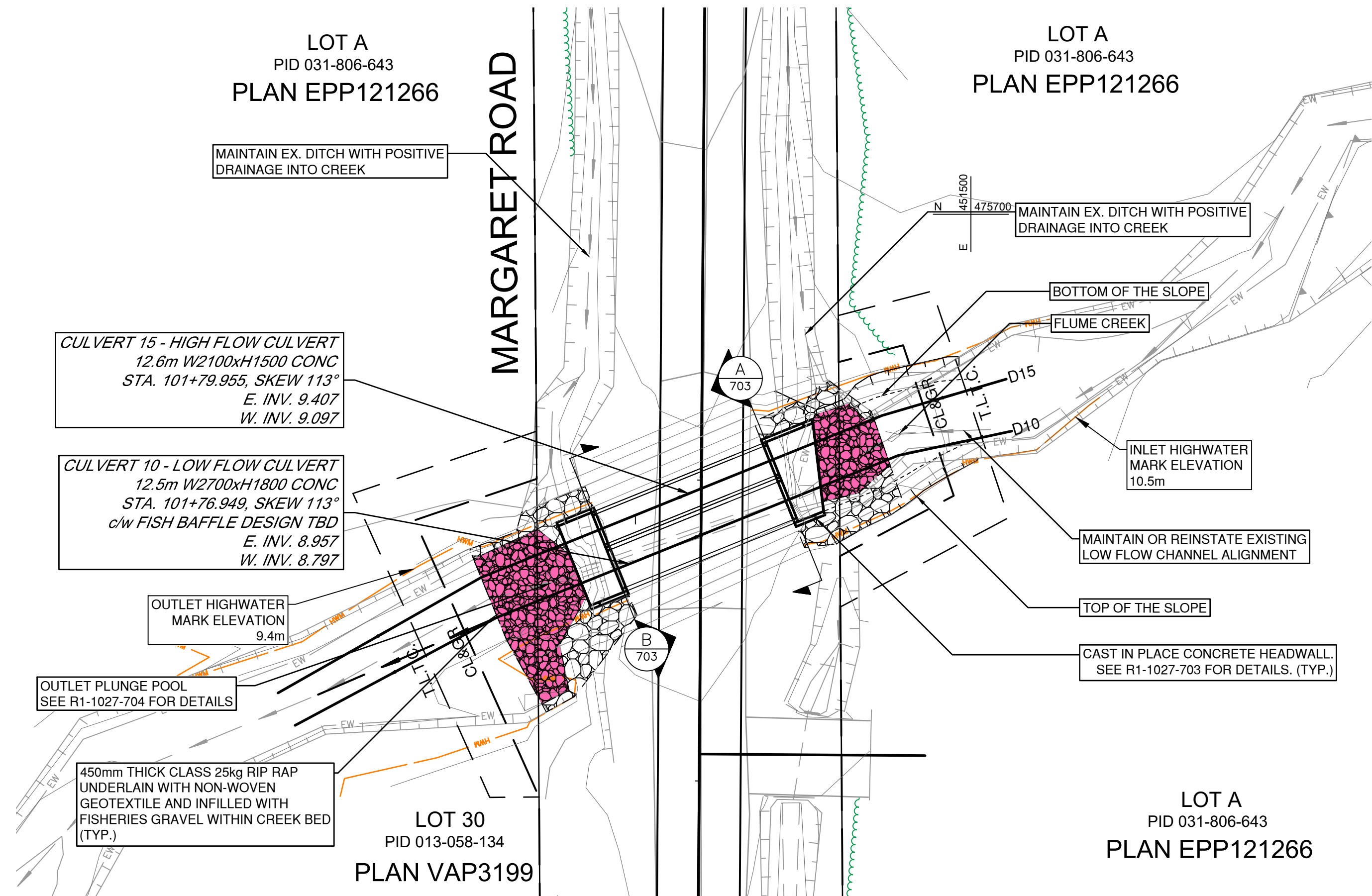
FOR ENVIRONMENTAL PERMITTING

PLAN  
FLUME CREEK  
DFAA FLOOD DAMAGE  
STA. 200+90.670 TO 201+87.500

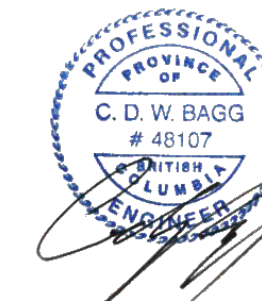
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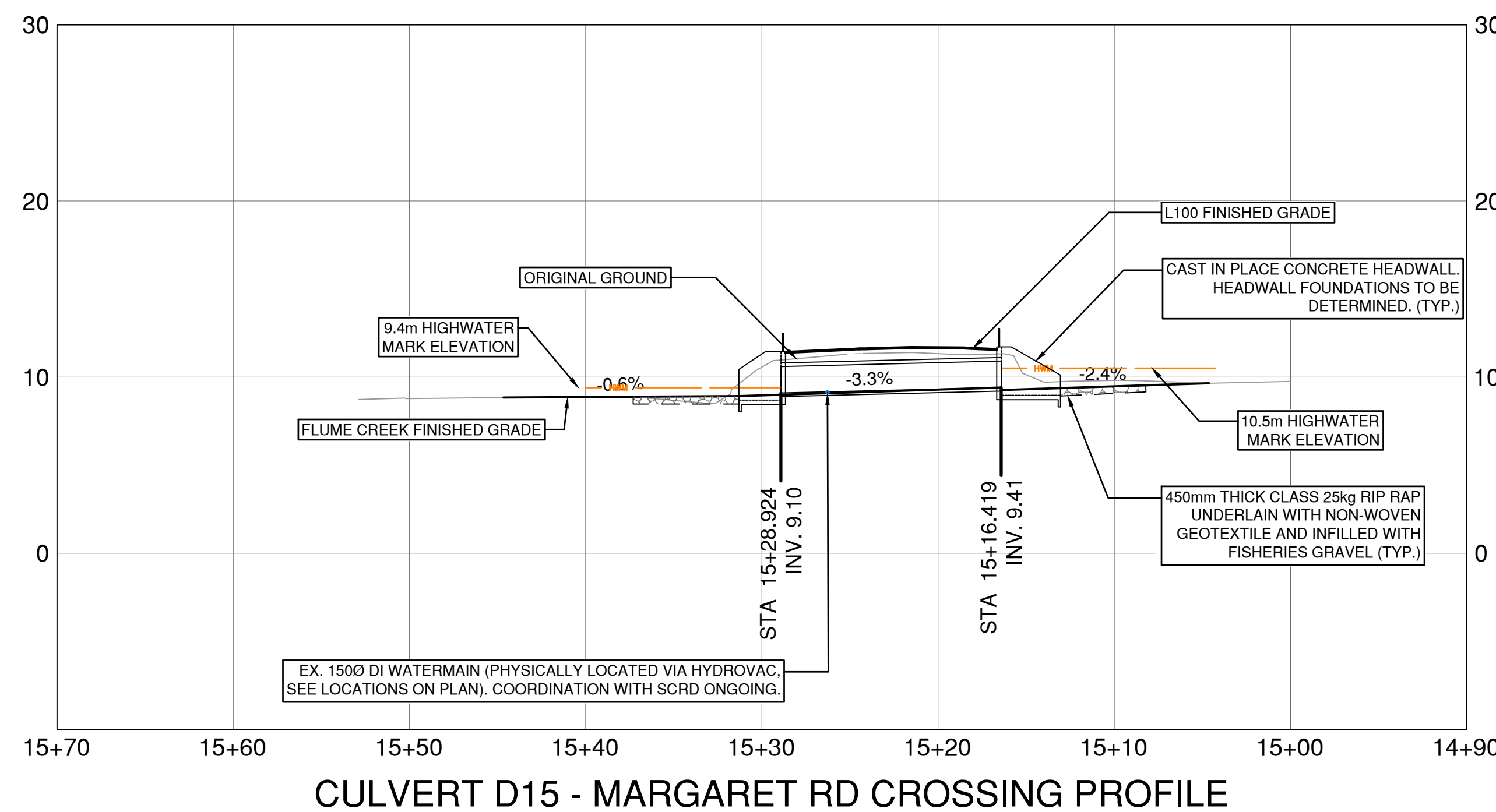
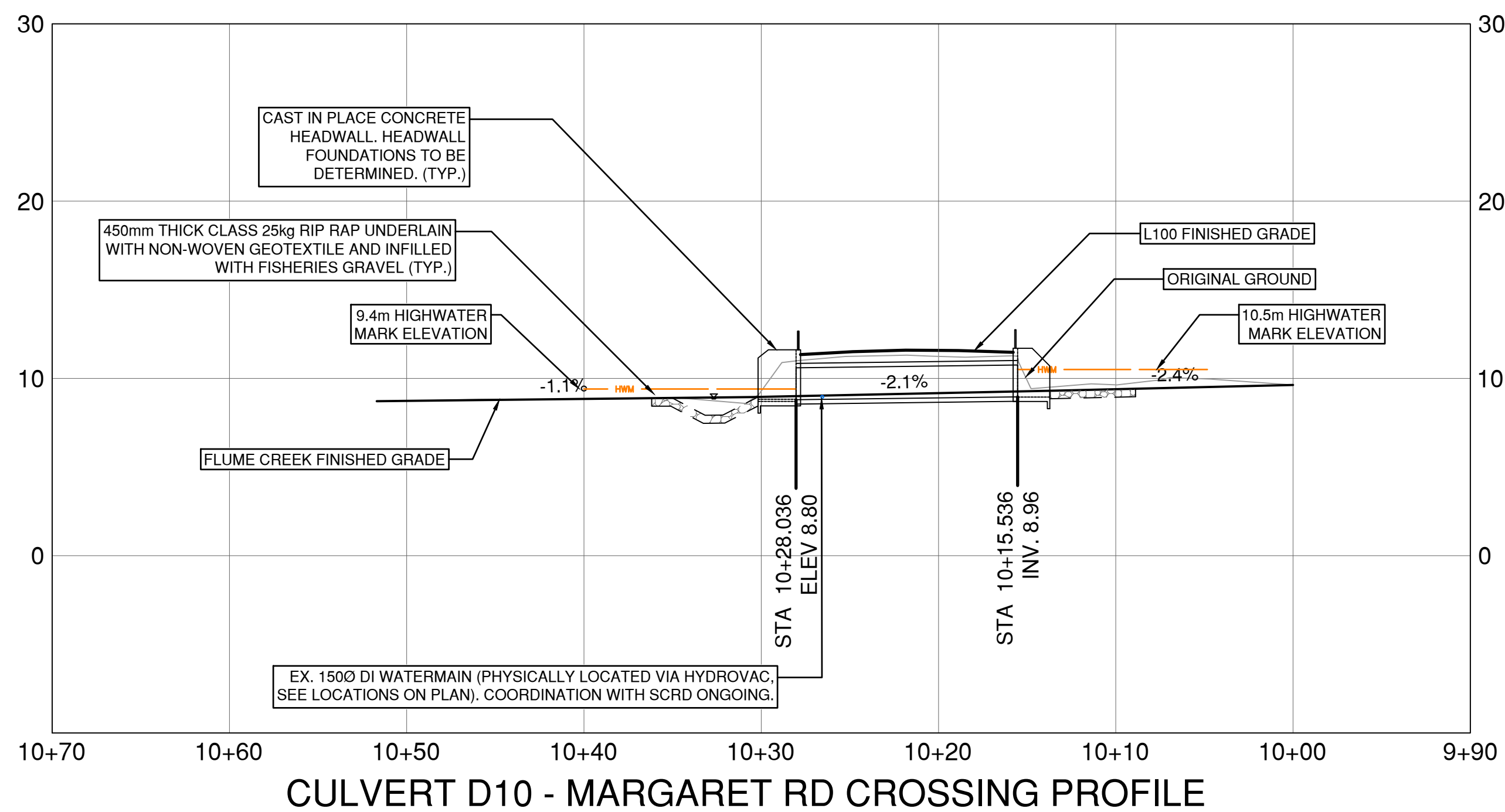




PERMIT TO PRACTICE  
URBAN SYSTEMS LTD.  
Signature: [Signature]  
Date: 2023-03-02  
PERMIT NUMBER: 1000527  
Engineers and Geoscientists BC  
(BCGC)



2023-03-02



**FOR ENVIRONMENTAL PERMITTING**

**LEGEND**

RIPRAP	
CHANNEL BOTTOM - RIPRAP TOP DRESSED WITH FISHERIES GRAVELS	
HIGH WATERMARK	



SCALE 0 2 1:250 12m

CAD FILENAME: R1-1027-700-ENVIRQ  
PLOT DATE: 2023-03-02

REV	DATE	REVISIONS	NAME

**BRITISH COLUMBIA**  
MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE  
SOUTH COAST REGION  
HIGHWAY ENGINEERING AND GEOMATICS

CODY BAGG, P.ENG.  
SENIOR DESIGNER

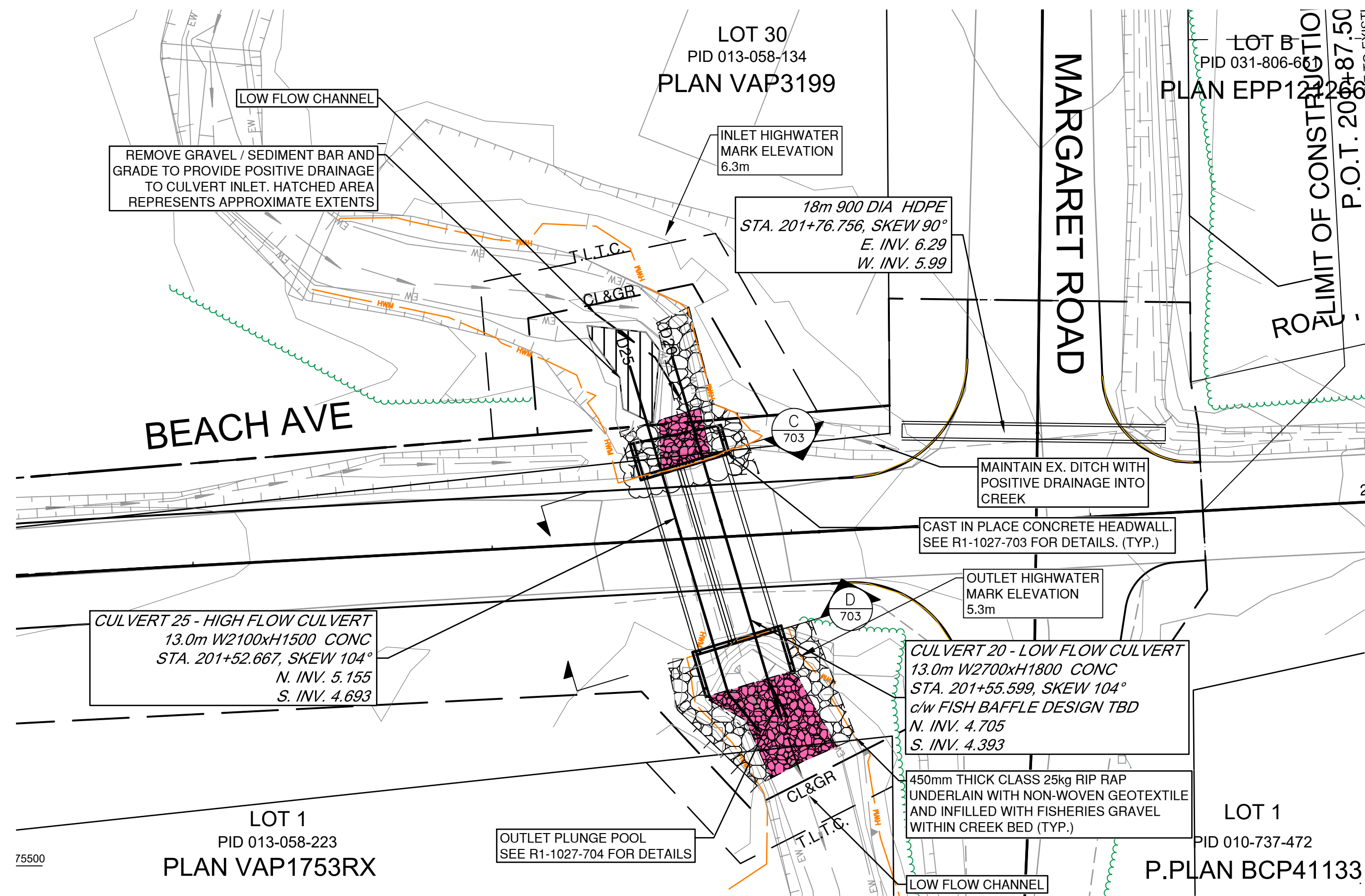
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QUALITY CONTROL: C.BAGG DATE: 2023-03-02  
QUALITY ASSURANCE: J.BORCH DATE: 2023-03-02  
DRAWN: E.PROULX DATE: 2023-03-02

**MARGARET ROAD CULVERT CROSSING**  
FLUME CREEK  
DFAA FLOOD DAMAGE

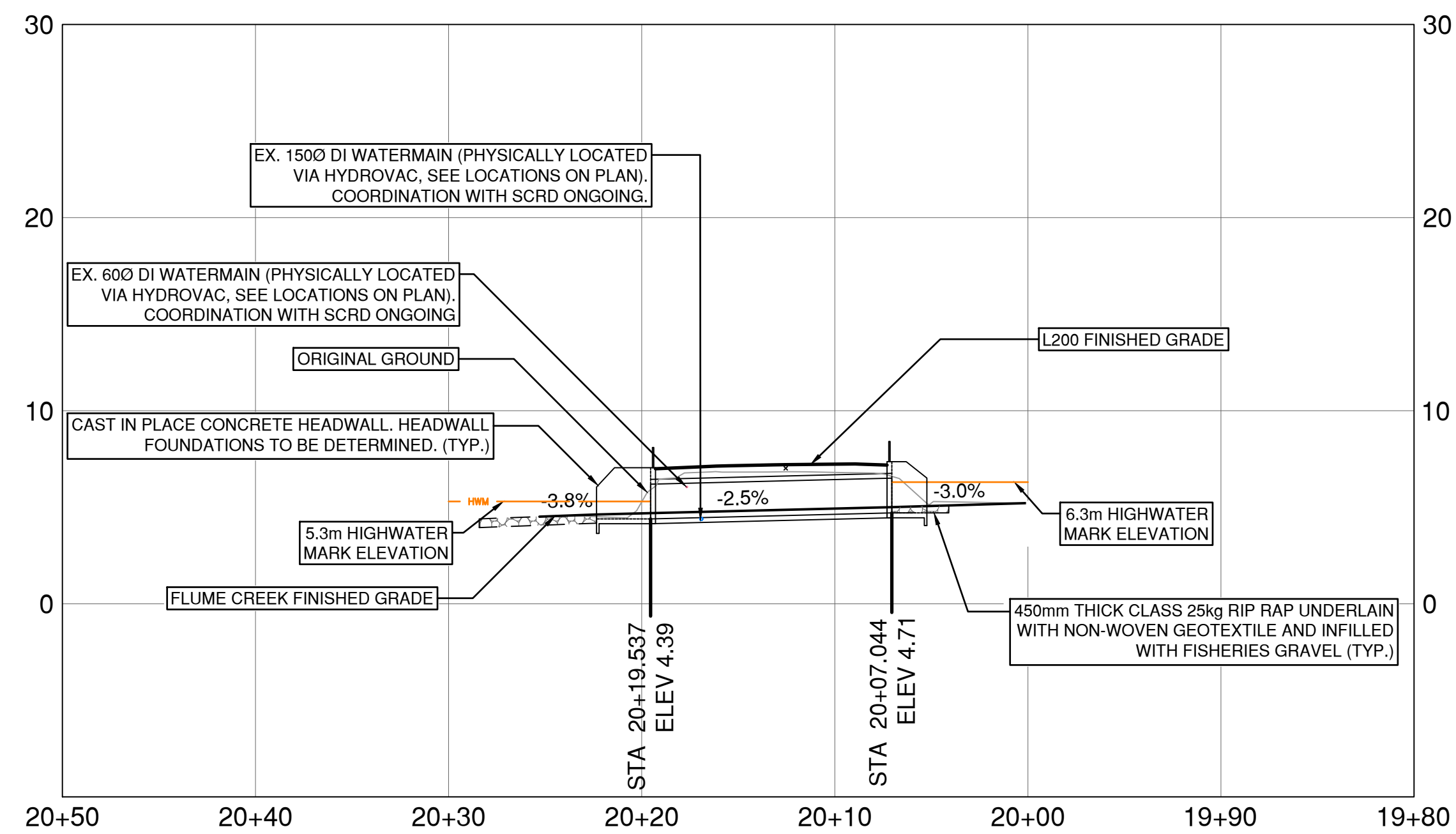
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PLOT DATE: 2023/03/02 U:\Projects\_SUR\1961\0480\14\0-Design\CAD\DrawingProduction\EnvironmentalDrawings\R1-1027-700-Enviro.dwg

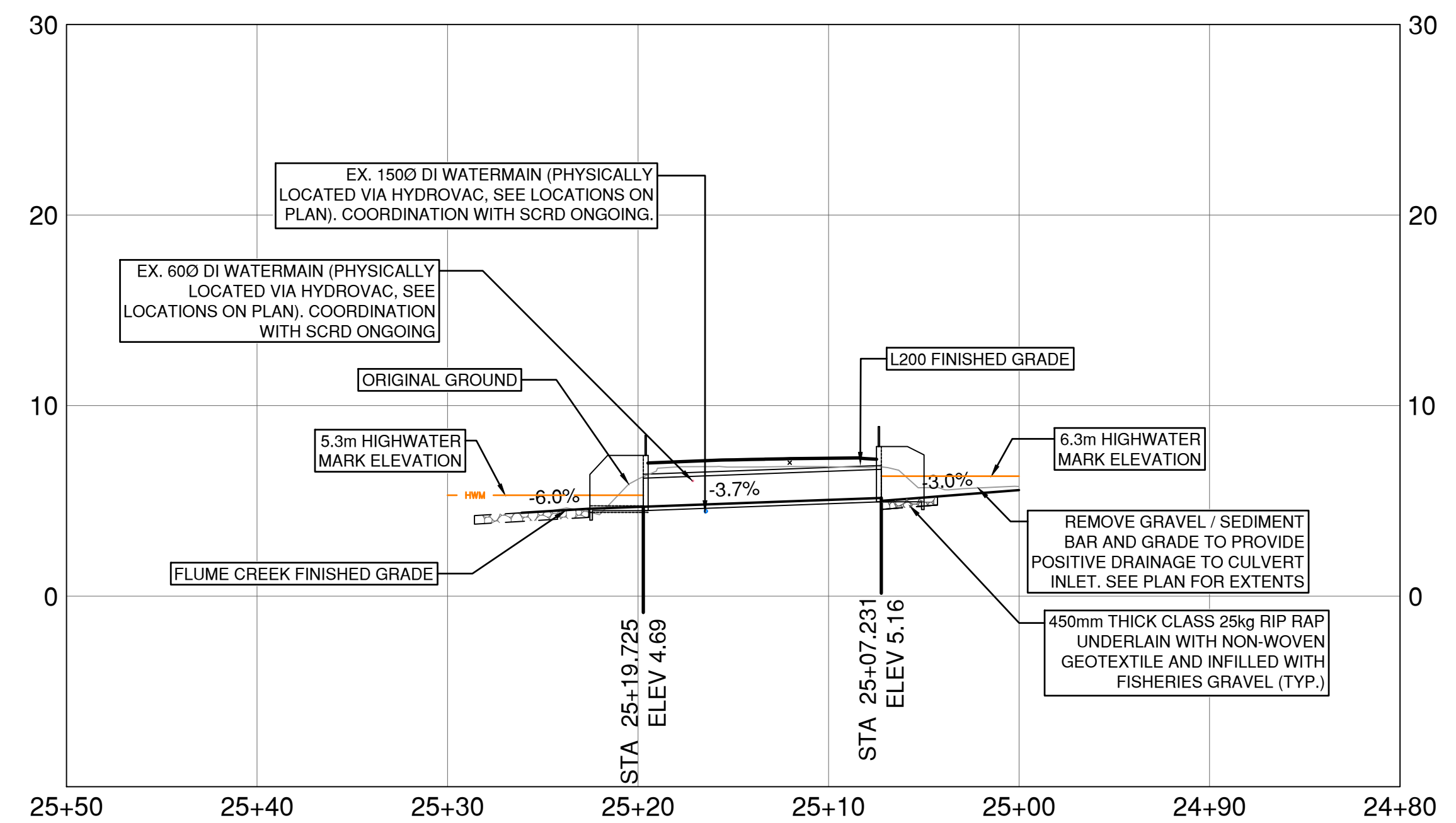




2023-03-02



CULVERT D20 - BEACH AVE CROSSING PROFILE



CULVERT D25 - BEACH AVE CROSSING PROFILE

PERMIT TO PRACTICE  
URBAN ENGINEERING  
Signature: *[Signature]*  
Date: 2023-03-02  
PERMIT NUMBER: 1000527  
Engineers and Geoscientists BC  
(EGBC)

**LEGEND**

RIPRAP	
CHANNEL BOTTOM - RIPRAP TOP DRESSED WITH FISHERIES GRAVELS	
HIGH WATERMARK	



SCALE: 0 2 1:250 12m

CAD FILENAME: R1-1027-700-ENVIRQ  
PLOT DATE: 2023-03-02

REV	DATE	REVISIONS	NAME

**BRITISH COLUMBIA** MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE  
SOUTH COAST REGION  
HIGHWAY ENGINEERING AND GEOMATICS

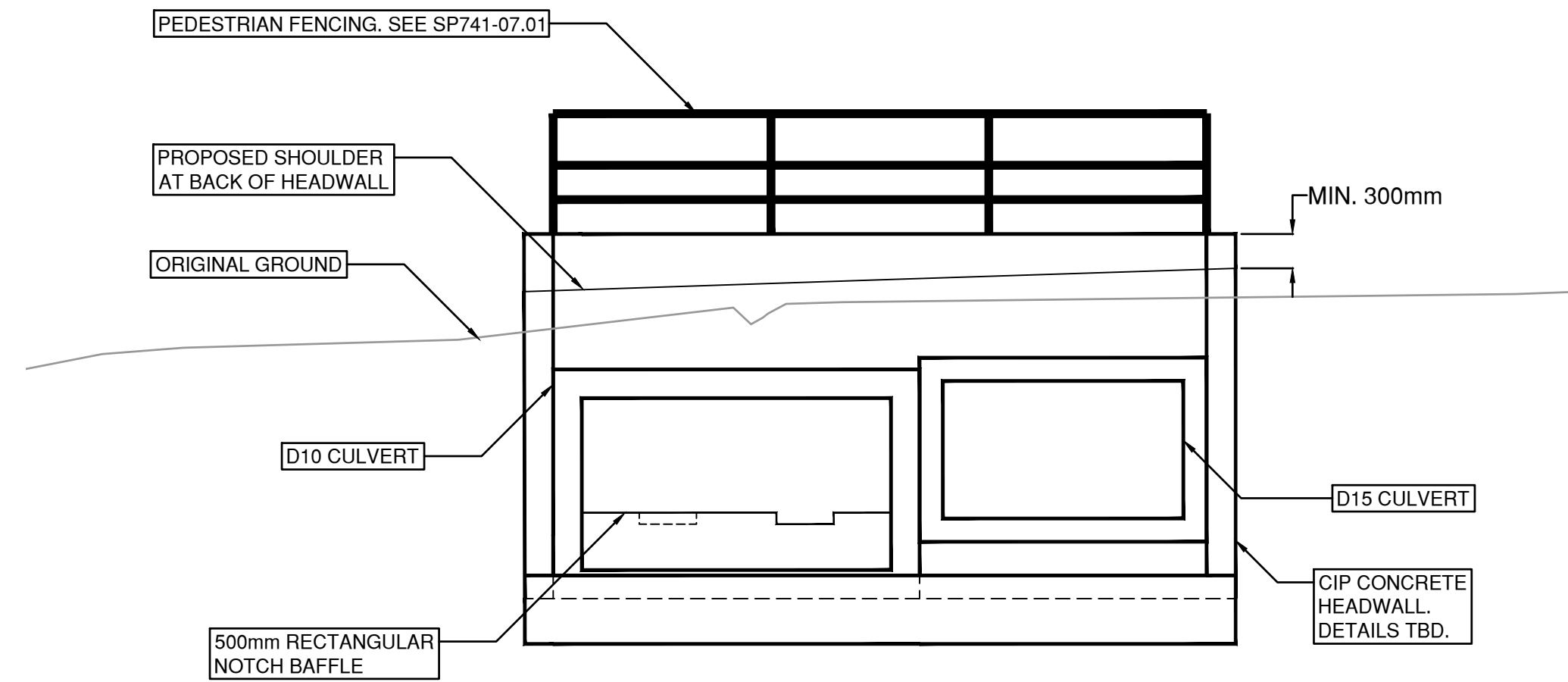
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QUALITY CONTROL: C.BAGG DATE: 2023-03-02  
QUALITY ASSURANCE: J.BORCH DATE: 2023-03-02  
DRAWN: E.PROULX DATE: 2023-03-02

CODY BAGG, P.ENG.  
SENIOR DESIGNER

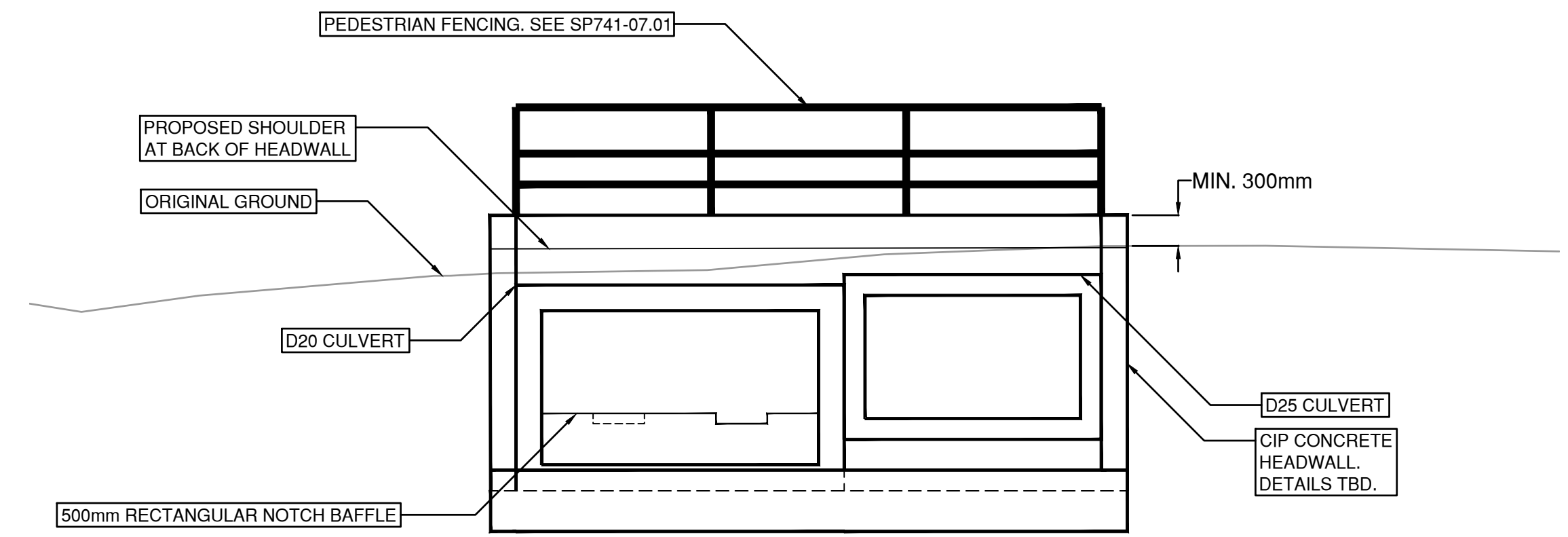
**FOR ENVIRONMENTAL PERMITTING**

BEACH AVENUE CULVERT CROSSING FLUME CREEK DFAA FLOOD DAMAGE		FILE NUMBER	PROJECT NUMBER	REG	DRAWING NUMBER	REV
		872CS1714	14005	1	R1-1027-702-ENVIRQ	

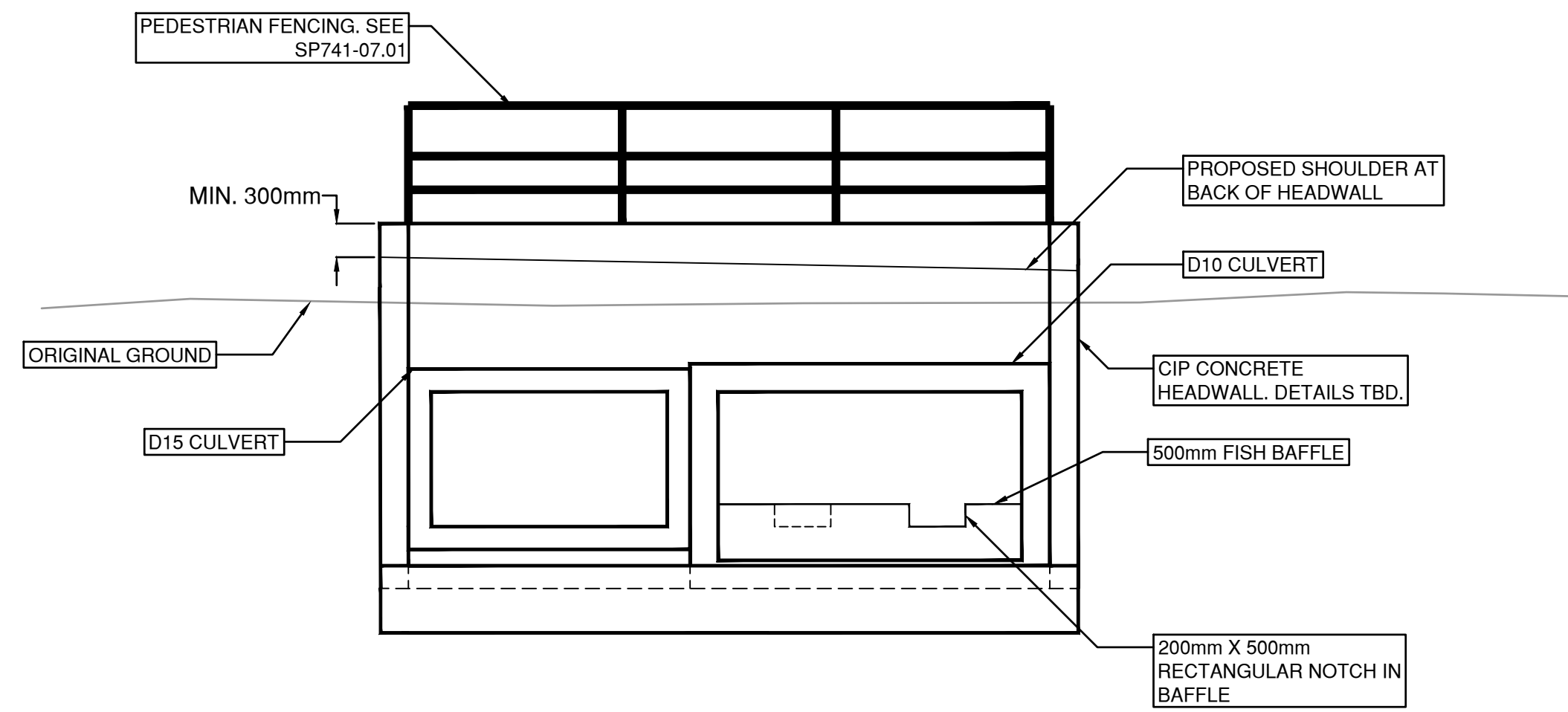
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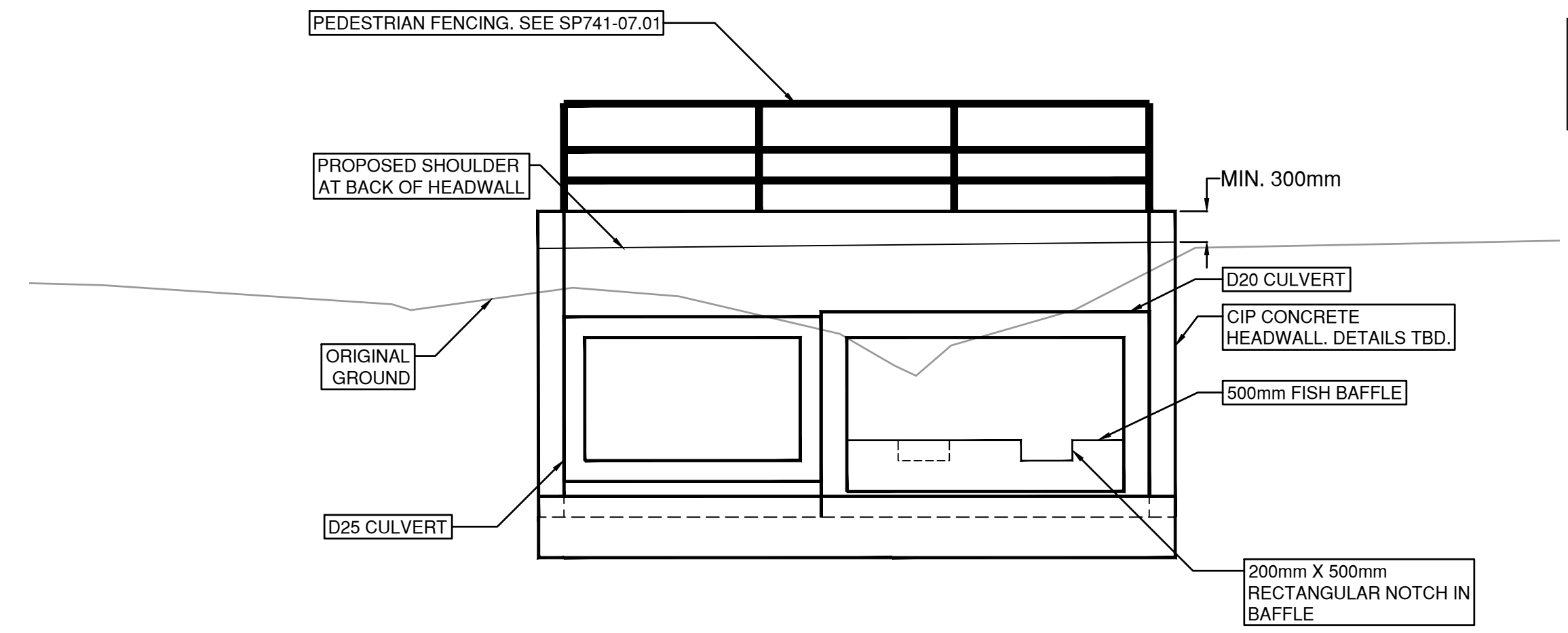
**A** MARGARET RD CROSSING  
701 D10 & D15 INLET SECTION



**C** BEACH AVE CROSSING  
702 D20 & D25 INLET SECTION



**B** MARGARET RD CROSSING  
701 D10 & D15 OUTLET SECTION



**D** BEACH AVE CROSSING  
702 D20 & D25 OUTLET SECTION



PERMIT TO PRACTICE  
URBAN ENGINEERING  
Signature: *[Signature]*  
Date: 2023-03-02  
PERMIT NUMBER: 1000527  
Engineers and Geoscientists BC  
(EGBC)

**FOR ENVIRONMENTAL PERMITTING**

SCALE 0 0.5 1:50 2.5m		CAD FILENAME R1-1027-700-ENVIRQ	
		PLOT DATE 2023-03-02	
REV	DATE	REVISIONS	NAME

**BRITISH COLUMBIA** MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE  
SOUTH COAST REGION  
HIGHWAY ENGINEERING AND GEOMATICS

DESIGNED S.CAVASINI DATE 2023-03-02  
 QUALITY CONTROL C.BAGG DATE 2023-03-02  
 QUALITY ASSURANCE J.BORCH DATE 2023-03-02  
 DRAWN E.PROULX DATE 2023-03-02

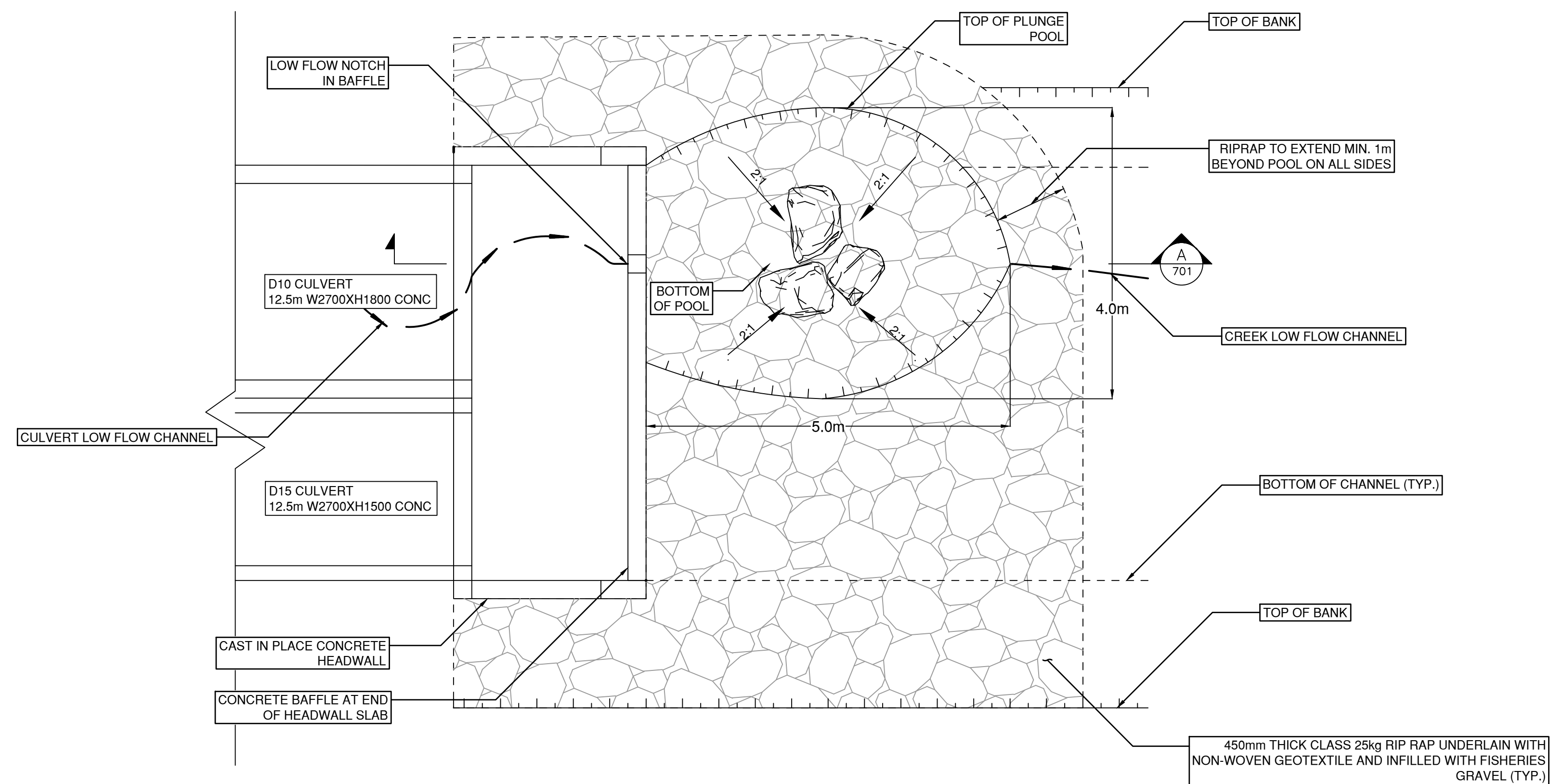
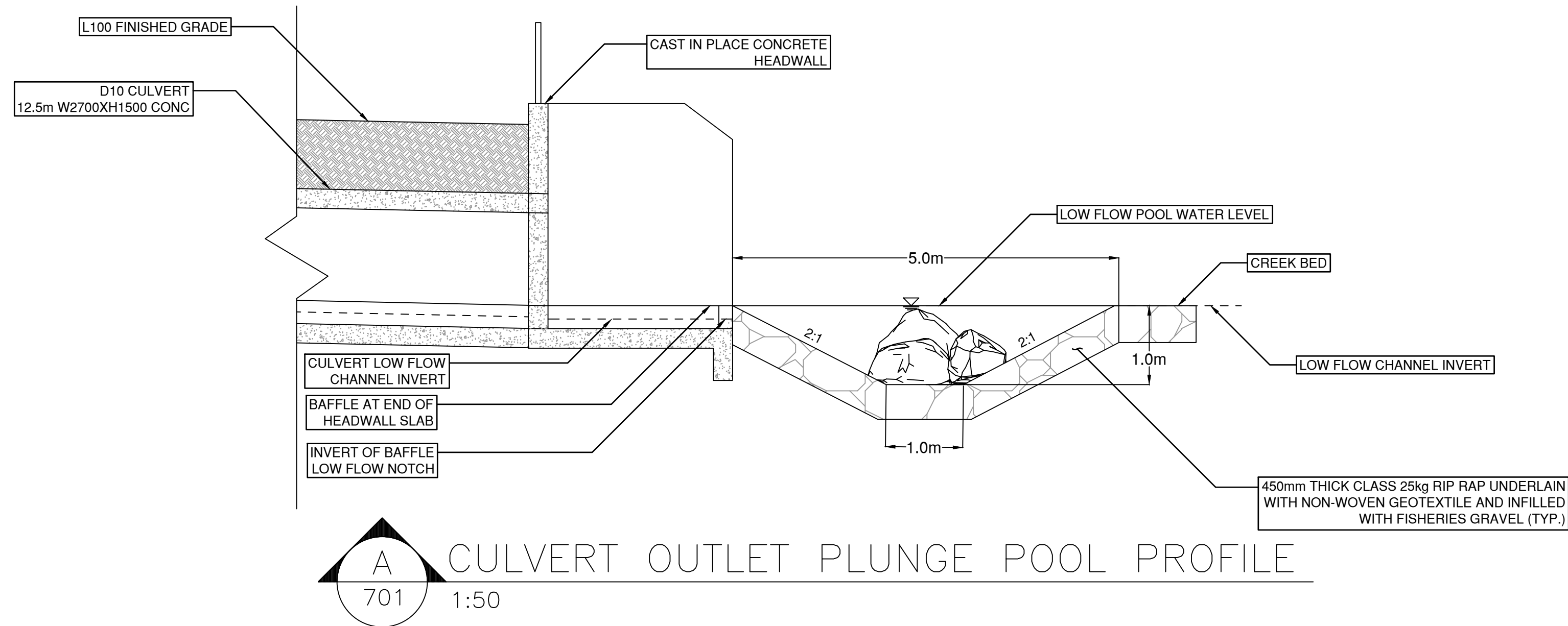
CODY BAGG, P.ENG.  
SENIOR DESIGNER  
DATE

<b>SECTIONS</b>			
FLUME CREEK DFAA FLOOD DAMAGE			
FILE NUMBER	PROJECT NUMBER	REG	DRAWING NUMBER
872CS1714	14005	1	R1-1027-703-ENVIRQ



PLOT DATE: 2023/03/02 U:\Projects\_SUR\1961\0480\14\0-Design\CAD\DrawingProduction\EnvironmentalDrawings\R1-1027-700-Enviro.dwg





PERMIT TO PRACTICE  
URBAN SYSTEMS LTD  
Signature: *[Signature]*  
Date: 2023-03-02  
PERMIT NUMBER: 1000527  
Engineers and Geoscientists BC  
(EGBC)

FOR ENVIRONMENTAL PERMITTING

PLOT DATE: 2023/03/02 U:\Projects\_SUR\1961\0480\14\0-Design\CAD\DrawingProduction\EnvironmentalDrawings\R1-1027-700-Enviro.dwg



SCALE 0 0.5 1.50 2.5m		CAD FILENAME R1-1027-700-ENVIRQ	
		PLOT DATE 2023-03-02	
REV	DATE	REVISIONS	NAME

BRITISH COLUMBIA  
MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE  
SOUTH COAST REGION  
HIGHWAY ENGINEERING AND GEOMATICS

CODY BAGG, P.ENG.  
SENIOR DESIGNER

DESIGNED: S.CAVASINNI DATE: 2023-03-02  
QUALITY CONTROL: C.BAGG DATE: 2023-03-02  
QUALITY ASSURANCE: J.BORCH DATE: 2023-03-02  
DRAWN: E.PROULX DATE: 2023-03-02

MARGARET ROAD PLUNGE POOL FLUME CREEK DFAA FLOOD DAMAGE			
FILE NUMBER	PROJECT NUMBER	REG	DRAWING NUMBER
872CS1714	14005	1	R1-1027-704-ENVIRQ