REGIONAL DISTRICT OF NANAIMO

REQUEST FOR TENDER No. 20-038

Gabriola Island Village Way Path Construction Project

Addendum 2 (15 Pages)
Issued: June 30, 2020

Closing Date & Time: on or before 3:00 PM Pacific Time on July 8, 2020

This addendum shall be read in conjunction with and considered as an integral part of the Request for Tender. Revisions supersede the information contained in the original Tender or previously issued Addendum. No consideration will be allowed for any extras due to any Vendor not being familiar with the contents of this Addendum. All other terms and conditions remain the same.

Item 1 RECEIPT OF ADDENDA

Acknowledge receipt of addenda by email to nathan.trobridge@newcastleengineering.com

Item 2 Include Gabriola Island, Village Way Path Questions and Answers, June 29, 2020.

Item 3 Refer to the Form of Tender, Gabriola Island Village Way Path. Replace Schedule of Estimated Quantities and Unit Prices with Schedule of Estimated Quantities and Unit Prices – Rev01.

Item 4 Refer to the Specifications, Gabriola Island Village Way Path. Replace Newcastle Engineering Ltd. Design Drawings – Rev06 with Newcastle Engineering Ltd. Design Drawings – Rev07.

Attachments:

1. Gabriola Island, Village Way Path Questions and Answers, June 29, 2020.
2. Schedule of Estimated Quantities and Unit Prices – Rev01.
3. Newcastle Engineering Ltd. Design Drawings – Rev07.

End of Addendum 2

Gabriola Island, Village Way Path Questions and Answers, June 29, 2020.

Q: Flow Control Manhole detail does not provide dimension of the manhole. Please provide.
A: 1200mm diameter.

Q: Flow Control Manhole detail shows an existing CB with a Storm Sewer. Please provide size for the existing storm sewer.
A: CB is proposed. Existing storm sewer size is unknown and is to be determined by Contractor as per note on drawing 0110-017-02.

Q: Bid item B-05 – 525 CSP does not exist. Please confirm pipe size.
A: 500mm diameter - 1.6 WT.

Q: Bid Item C-01 'Retaining Wall'. If possible, could you please break out quantities based on Allan Block Wall and CIP Retaining Wall, as well as provide an average height for both items. In addition, could you also provide clarification on whether the CIP Retaining Wall quantity is in regards to the exposed wall only or will the quantity be inclusive of the base.
A: Allan Block walls have been deleted. See revised Schedule of Quantities and Design Drawings. Quantities and payment for retaining walls are per square meter of exposed face.

Q: Can you provide more detail in regards to the retaining walls? What is exact height and location of each of the particular walls.
A: Allan Block walls have been deleted. See revised Schedule of Quantities and Design Drawings. Quantities and payment for retaining walls are per square meter of exposed face.

Q: Is there a designated lay down area for equipment and materials for the duration of the project?
A: A dedicated laydown is not provided.

Q: Questions in regards to the railing:

- Finished coating - Paint, Galvanized, Etc.
- More detail on style, design of handrail, picket material
- Connection plate detail/type
- Require CWB welding certification
- Field connection detail, weld together or bolt/floating

A: See revised Design Drawings.

Q: Item C-01 – Retaining Walls.

a. There seems to be 2 or 3 types of walls – concrete, allan block, and maybe rock stack – could you please separate the line items as these are all different costs.
b. Could you please delineate which walls are which on the drawings – some that look like rock stack walls are noted as allan block, some noted as allan block look the same as the one noted concrete, and some are not noted at all but either look like concrete or rock stack.
c. Do you have cross sections to determine the height of the walls?

A: Allan Block walls have been deleted. See revised Schedule of Quantities and Design Drawings. Quantities and payment for retaining walls are per square meter of exposed face.

Q: Item C-02 – Handrail on walls – please clarify the mounting – will the ones on concrete walls be hilti-anchored to the top of the wall or behind the wall? Will the ones behind allan block walls be set in the blocks with caps notched or behind the walls?
A: Allan Block wall have been deleted. See revised Design Drawings.

Q: For item B-04, Can ABS be used in replacement of CSP?
A: No.

Q: Does the 250dia. perforated pipe require 3 holes at the bottom, as displayed in the detail, or can we use a standard perforated pipe, with 1 hole?
A: As per detail.

Q: Can you please provide the Square Meter Face (SMF) and details for the following 2 retaining walls:

a. Allan Block Retaining Walls
b. Concrete Retaining Walls

A: Allan Block walls have been deleted. See revised Schedule of Quantities and Design Drawings. Quantities and payment for retaining walls are per square meter of exposed face.

Q: Please specify the required grade of CSP pipe.
A: 1.6 WT

Q: Please specify the diameter of the Flow Control Manhole.
A: 1200mm diameter.

Q: Do the Storm lines/CB's and Manholes we install need to be flushed and videoed?
A: Yes.

Q: Is there a Yard or location to store gravel during this construction project?
A: A dedicated laydown is not provided.

Q: Do the *relocated* Signs require MOTI Concrete Bases?
A: Direct burial as per MOTI specifications.

Q: Can you please provide a detail drawing of the Hand Rail, including imbeds and railing.
A: See revised Design Drawings.

SCHEDULE A - ROAD AND EARTHWORKS

ITEM	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT RATE	TOTAL
A-01	Saw-cut existing pavement	LM	1450		$ -
A-02	Pavement removal including off-site disposal of waste materials	SM	1950		$ -
A-03	Asphalt widening (50mm) - North Road	SM	1565		$ -
A-04	Base widening (150mm) - North Road	SM	385		$ -
A-05	Subbase widening (250mm) - North Road	SM	385		$ -
A-06	Asphalt pathway (50mm) c/w base (50mm) and subbase (150mm)	SM	995		$ -
A-07	Asphalt driveway (50mm) c/w base (150mm) and subbase (250mm)	SM	885		$ -
A-08	Gravel pathway (50mm) c/w base (50mm) and subbase (150mm)	SM	1405		$ -
A-09	Asphalt curb	LM	1290		$ -
A-10	Gravel shoulder (50mm) either side of path	SM	470		$ -
A-11	Relocate existing signs	EA	7		$ -
A-12	Remove existing barriers	LS	1		$ -
A-13	Remove existing concrete curb	LM	8		$ -
A-14	BC Hydro guy wire	LS	1		$ -
A-15	Subgrade prep	SM	3700		$ -
A-16	Traffic control	LS	1		$ -
A-17	Line Painting	LS	1		$ -
A-18	Tree removal	LS	1		$ -
A-19	Stripping (200mm) w/ offsite disposal	CM	500		$ -
A-20	Import and place structural fill	CM	550		$ -
A-21	Common excavation to fill	CM	290		$ -
	TOTAL SCHEDULE A - ROAD AND EARTHWORKS				**$ -**

SCHEDULE B - STORM SEWERS

ITEM	DESCRIPTION	UNIT	ESTIMATED QUANTITY	ESTIMATED UNIT RATE	ESTIMATED TOTAL
B-01	Exfiltration trench c/w 250mm dia perforated storm	LM	28		$ -
B-02	200mm dia PVC CB lead	LM	20		$ -
B-03	250mm dia PVC CB lead	LM	65		$ -
B-04	300mm dia CSP culvert - 1.6 WT	LM	21		$ -
B-05	525mm dia CSP culvert extension - 1.6 WT	LM	1		$ -
B-06	Cleanout	EA	1		$ -
B-07	Flow control manhole	EA	1		$ -
B-08	Round catch basin	EA	1		$ -
B-09	Catch basin	EA	10		$ -
B-10	Sandbag Headwall	EA	1		$ -
B-11	Rip rap apron	EA	2		$ -
B-12	Locate existing culvert	EA	1		$ -
B-13	Tie into existing storm drain	EA	1		$ -
B-14	Remove existing 300mm dia CSP culvert	LM	14		$ -
B-15	Regrade ditch	LM	300		$ -
B-16	Granular trench backfill including off-site disposal of excavated material	CM	16		$ -
B-17	Trench rock excavation [Provisional Item]	CM	20		$ -
B-18	Erosion and sediment control	LS	1		$ -
	TOTAL SCHEDULE B - STORM SEWERS				**$ -**

SCHEDULE C - RETAINING WALLS

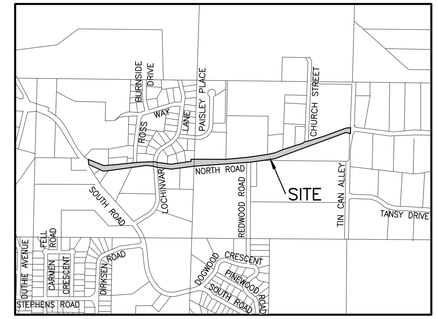
ITEM	DESCRIPTION	UNIT	ESTIMATED QUANTITY	ESTIMATED UNIT RATE	ESTIMATED TOTAL
C-01	Concrete retaining wall (Measurement and payment based on square meters of exposed face)	SMF	240		$ -
C-02	Retaining wall hand rail	LM	242		$ -

TOTAL SCHEDULE C - RETAINING WALLS **$ -**

VILLAGE WAY, GABRIOLA ISLAND SUMMARY OF SCHEDULES	ESTIMATED TOTAL
TOTAL SCHEDULE A - ROAD AND EARTHWORKS	**$**
TOTAL SCHEDULE B - STORM SEWERS	**$**
TOTAL SCHEDULE C - RETAINING WALLS	**$**
SUB-TOTAL	**$ -**
GST (5%)	**$ -**
TOTAL TENDER	**$ -**

DRAWING SCHEDULE

CITY DWG No.	NEL DWG No.	REVISION	TITLE
.	0110-017-01	REV07	SITE PLAN
.	0110-017-02	REV07	NORTH ROAD – STATION 1+000.00 TO 1+185.00
.	0110-017-03	REV07	NORTH ROAD – STATION 1+185.00 TO 1+370.00
.	0110-017-04	REV07	NORTH ROAD – STATION 1+370.00 TO 1+555.00
.	0110-017-05	REV07	NORTH ROAD – STATION 1+555.00 TO 1+740.00
.	0110-017-06	REV07	NORTH ROAD – STATION 1+740.00 TO 1+925.00
.	0110-017-07	REV07	NORTH ROAD – STATION 1+925.00 TO 2+120.00
.	0110-017-08	REV07	NORTH ROAD – STATION 2+120.00 TO 2+295.00
.	0110-017-09	REV07	NORTH ROAD – STATION 2+295.00 TO 3+460.00
.	0110-017-10	REV05	TYPICAL DETAILS



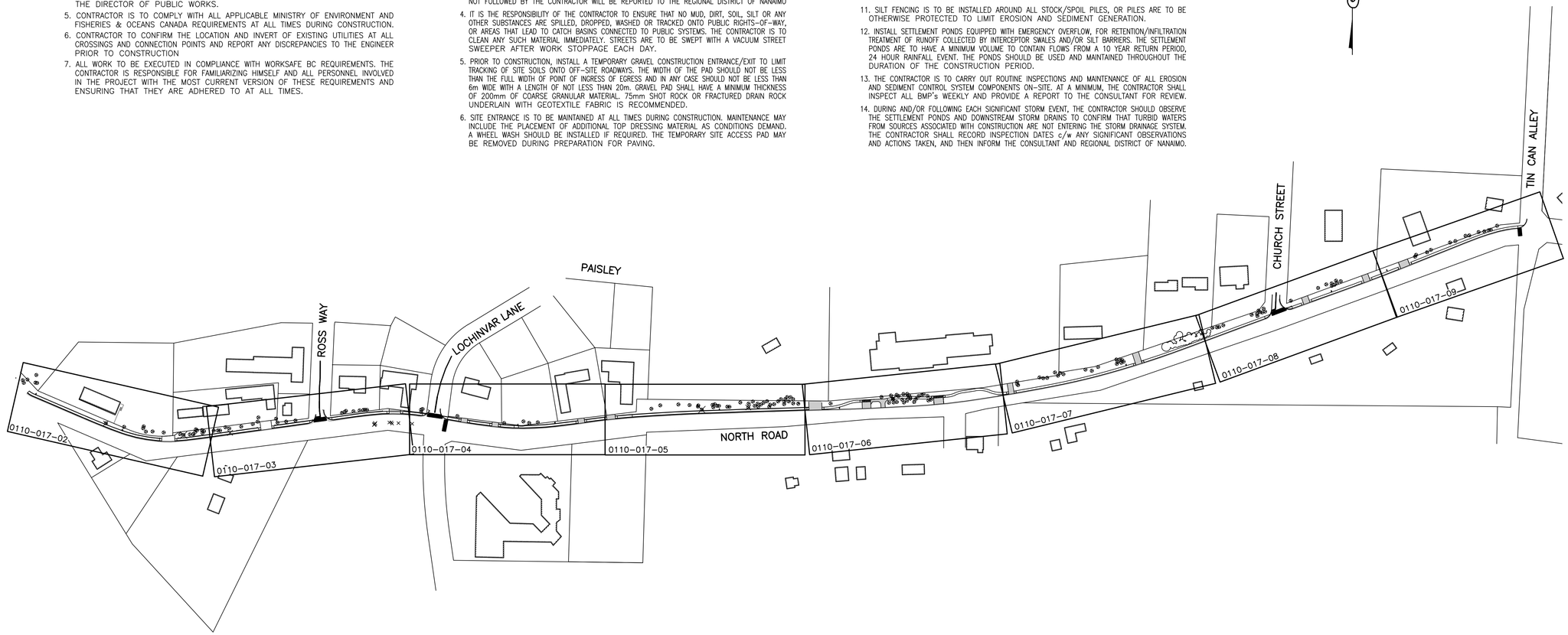
LOCATION PLAN
N.T.S.

NOTES:

1. ALL WORK AND MATERIALS ARE TO BE AS DESCRIBED IN THE LATEST EDITION OF THE REGIONAL DISTRICT OF NANAIMO ENGINEERING STANDARDS AND SPECIFICATIONS OR AS OTHERWISE APPROVED BY THE REGIONAL DISTRICT OF NANAIMO ENGINEERING SERVICE DIVISION.
2. THE REGIONAL DISTRICT OF NANAIMO CONSTRUCTION DIVISION SHALL BE NOTIFIED 48 HOURS PRIOR TO THE COMMENCEMENT OF WORK ON–SITE.
3. NOTIFY BC MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE 7 DAYS PRIOR TO THE COMMENCEMENT OF WORK ON–SITE.
4. CONNECTION TO, OR ALTERATION OF EXISTING DISTRICT OWNED UTILITIES WILL BE UNDERTAKEN BY THE REGIONAL DISTRICT OF NANAIMO, UNLESS OTHERWISE AUTHORIZED BY THE DIRECTOR OF PUBLIC WORKS.
5. CONTRACTOR IS TO COMPLY WITH ALL APPLICABLE MINISTRY OF ENVIRONMENT AND FISHERIES & OCEANS CANADA REQUIREMENTS AT ALL TIMES DURING CONSTRUCTION.
6. CONTRACTOR TO CONFIRM THE LOCATION AND INVERT OF EXISTING UTILITIES AT ALL CROSSINGS AND CONNECTION POINTS AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
7. ALL WORK TO BE EXECUTED IN COMPLIANCE WITH WORKSAFE BC REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR FAMILIARIZING HIMSELF AND ALL PERSONNEL INVOLVED IN THE PROJECT WITH THE MOST CURRENT VERSION OF THESE REQUIREMENTS AND ENSURING THAT THEY ARE ADHERED TO AT ALL TIMES.

EROSION and SEDIMENT CONTROL:

1. EROSION AND SEDIMENT CONTROL FOR THIS PROJECT WILL BE AS OUTLINED IN THE FISHERIES AND OCEANS CANADA AND MINISTRY OF WATER, LANDS AND AIR PROTECTION HANDBOOK ENTITLED "LAND DEVELOPMENT GUIDELINES FOR THE PROTECTION OF AQUATIC HABITAT, MAY 1992" AND "BEST MANAGEMENT PRACTICES FOR URBAN AND RURAL LAND DEVELOPMENT IN BRITISH COLUMBIA, JUNE 2004" AND "EROSION & SEDIMENT CONTROL GUIDELINE" BY THE CITY OF NANAIMO. IT IS INCUMBENT INCUMBENT UPON THE CONTRACTOR TO ACQUIRE THESE GUIDELINES AND FAMILIARIZE HIMSELF WITH THE REQUIREMENTS THEREIN.
2. THE CONSULTANT ASSUMES NO RESPONSIBILITY FOR DAMAGES RESULTING FROM IMPROPER EROSION AND SEDIMENT CONTROL MEASURES UNDERTAKEN BY THE CONTRACTOR.
3. ANY DIRECTION GIVEN BY THE ENGINEER TO THE CONTRACTOR FOR EROSION AND SEDIMENT CONTROL NOT FOLLOWED BY THE CONTRACTOR WILL BE REPORTED TO THE REGIONAL DISTRICT OF NANAIMO
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT NO MUD, DIRT, SOIL, SILT OR ANY OTHER SUBSTANCES ARE SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS–OF–WAY, OR AREAS THAT LEAD TO CATCH BASINS CONNECTED TO PUBLIC SYSTEMS. THE CONTRACTOR IS TO CLEAN ANY SUCH MATERIAL IMMEDIATELY. STREETS ARE TO BE SWEPT WITH A VACUUM STREET SWEEPER AFTER WORK STOPPAGE EACH DAY.
5. PRIOR TO CONSTRUCTION, INSTALL A TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT TO LIMIT TRACKING OF SITE SOILS ONTO OFF–SITE ROADWAYS. THE WIDTH OF THE PAD SHOULD NOT BE LESS THAN THE FULL WIDTH OF POINT OF INGRESS OF EGRESS AND IN ANY CASE SHOULD NOT BE LESS THAN 6m WIDE WITH A LENGTH OF NOT LESS THAN 20m. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 200mm OF COARSE GRANULAR MATERIAL. 75mm SHOT ROCK OR FRACTURED DRAIN ROCK UNDERLAIN WITH GEOTEXTILE FABRIC IS RECOMMENDED.
6. SITE ENTRANCE IS TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. MAINTENANCE MAY INCLUDE THE PLACEMENT OF ADDITIONAL TOP DRESSING MATERIAL AS CONDITIONS DEMAND. A WHEEL WASH SHOULD BE INSTALLED IF REQUIRED. THE TEMPORARY SITE ACCESS PAD MAY BE REMOVED DURING PREPARATION FOR PAVING.
7. PRIOR TO CONSTRUCTION, AREAS OF NO DISTURBANCE AND/OR VEGETATION TO BE RETAINED SHALL BE FENCED OFF AND/OR FLAGGED FOR PROTECTION. THESE MEASURES ARE TO REMAIN IN PLACE THROUGHOUT THE CONSTRUCTION PERIOD.
8. CLEARING AND GRUBBING OF THE SITE SHALL BE COMPLETED IN STAGES IF POSSIBLE TO LIMIT THE DISTURBANCE AND POSSIBLE EROSION TO THE SITE.
9. CONTRACTOR IS TO GRADE THE SITE AND INSTALL DRAINAGE CONTROL MEASURES TO DIRECT SURFACE RUN–OFF TO ON–SITE SEDIMENT CONTROL PONDS FOR DISPERSAL AND INFILTRATION.
10. IF GRADED AREAS WITHIN THE PROJECT WILL NOT BE COMPLETED OUTSIDE OF THE WET SEASON (OCTOBER – APRIL), REVEGETATION OPERATIONS SHOULD BE CARRIED OUT WITHIN ONE WEEK OF GRADING COMPLETION OF NO LATER THAN SEPTEMBER 15th.
11. SILT FENCING IS TO BE INSTALLED AROUND ALL STOCK/SPOIL PILES, OR PILES ARE TO BE OTHERWISE PROTECTED TO LIMIT EROSION AND SEDIMENT GENERATION.
12. INSTALL SETTLEMENT PONDS EQUIPPED WITH EMERGENCY OVERFLOW, FOR RETENTION/INFILTRATION TREATMENT OF RUNOFF COLLECTED BY INTERCEPTOR SWALES AND/OR SILT BARRIERS. THE SETTLEMENT PONDS ARE TO HAVE A MINIMUM VOLUME TO CONTAIN FLOWS FROM A 10 YEAR RETURN PERIOD, 24 HOUR RAINFALL EVENT. THE PONDS SHOULD BE USED AND MAINTAINED THROUGHOUT THE DURATION OF THE CONSTRUCTION PERIOD.
13. THE CONTRACTOR IS TO CARRY OUT ROUTINE INSPECTIONS AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL SYSTEM COMPONENTS ON–SITE. AT A MINIMUM, THE CONTRACTOR SHALL INSPECT ALL BMP's WEEKLY AND PROVIDE A REPORT TO THE CONSULTANT FOR REVIEW.
14. DURING AND/OR FOLLOWING EACH SIGNIFICANT STORM EVENT, THE CONTRACTOR SHOULD OBSERVE THE SETTLEMENT PONDS AND DOWNSTREAM STORM DRAINS TO CONFIRM THAT TURBID WATERS FROM SOURCES ASSOCIATED WITH CONSTRUCTION ARE NOT ENTERING THE STORM DRAINAGE SYSTEM. THE CONTRACTOR SHALL RECORD INSPECTION DATES c/w ANY SIGNIFICANT OBSERVATIONS AND ACTIONS TAKEN, AND THEN INFORM THE CONSULTANT AND REGIONAL DISTRICT OF NANAIMO.



ISSUED FOR TENDER

SCALE 1:2000

BC 1 CALL 1-800-474-6886

Rev. No.	DATE	BY	REVISION DESCRIPTION	ENG
00	10/03/18	KA	SUBMITTED TO RDN FOR REVIEW – NOT FOR CONSTRUCTION	NBT
01	10/10/18	KA	REVISED PATH ALIGNMENT – NOT FOR CONSTRUCTION	NBT
02	01/14/19	KA	BC MOTI COMMENTS ADDRESSED – NOT FOR CONSTRUCTION	NBT
03	01/25/19	KA	RDN COMMENTS ADDRESSED – NOT FOR CONSTRUCTION	NBT
04	08/08/19	KA	BC MOTI COMMENTS ADDRESSED – NOT FOR CONSTRUCTION	NBT
05	09/19/19	HL	RDN COMMENTS ADDRESSED – NOT FOR CONSTRUCTION	NBT
06	06/05/20	bh	ISSUED FOR APPROVAL – NOT FOR CONSTRUCTION	NBT
07	06/29/20	bh	ISSUED FOR TENDER – NOT FOR CONSTRUCTION	NBT

LEGEND

PROP.	EXIST.	PROP.	EXIST.
WATERMAIN		HYDRANT	
STORM SEWER		ABOVE GROUND FLUSHOUT	
SANITARY SEWER		BELOW GROUND FLUSHOUT	
GAS MAIN		CATCHBASIN	
ELECTRICAL DUCT		DITCH INLET CB	
INLET/OUTLET HEADWALL		MANHOLE	
DITCH INLET/OUTLET		CLEANOUT	
SWALE		HYDRO POLE	
EDGE OF PAVEMENT		CAP	
VALVE BOX		STREETLIGHT	
LIMIT OF CONSTRUCTION		FENCE	

SITE LEGAL DESCRIPTION

ROAD RIGHT OF WAY ON NORTH ROAD
FROM SOUTH ROAD INTERSECTION
TO TIN CAN ALLEY ON GABRIOLA ISLAND

BENCHMARK DESCRIPTION

ELEVATION DATUM IS GEODETIC AND IS DERIVED FROM GNSS MEASUREMENTS MADE TO GEODETIC CONTROL MONUMENT 946707 LOCATED AT THE END OF BERRY POINT ROAD ON GABRIOLA ISLAND. MONUMENT ELEVATION = 3.344m

ENGINEER'S SEAL

HORIZONTAL SCALE: 1:2000

VERTICAL SCALE:

DESIGN: NBT
DRAWN: KA
CHECKED: NBT
PLOT DATE: 06–29–20
PRINT DATE:

CLIENT NAME: REGIONAL DISTRICT OF NANAIMO

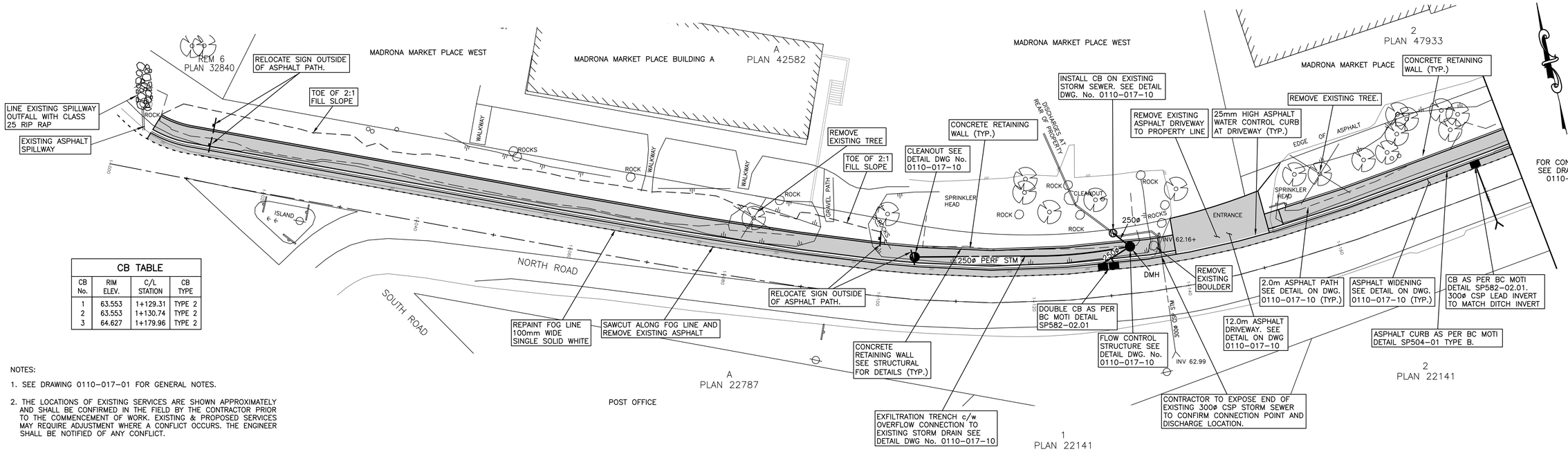
PROJECT NAME: VILLAGE WAY

DRAWING TITLE: SITE PLAN

NEWCASTLE ENGINEERING LTD.
4–3179 BARONS ROAD
NANAIMO, B.C. V9T 5W5
PHONE (250) 756–9553

PROJECT No.: 0110–017
DRAWING No.: 01
REVISION No.: 07
RDN PLAN FILE No.:

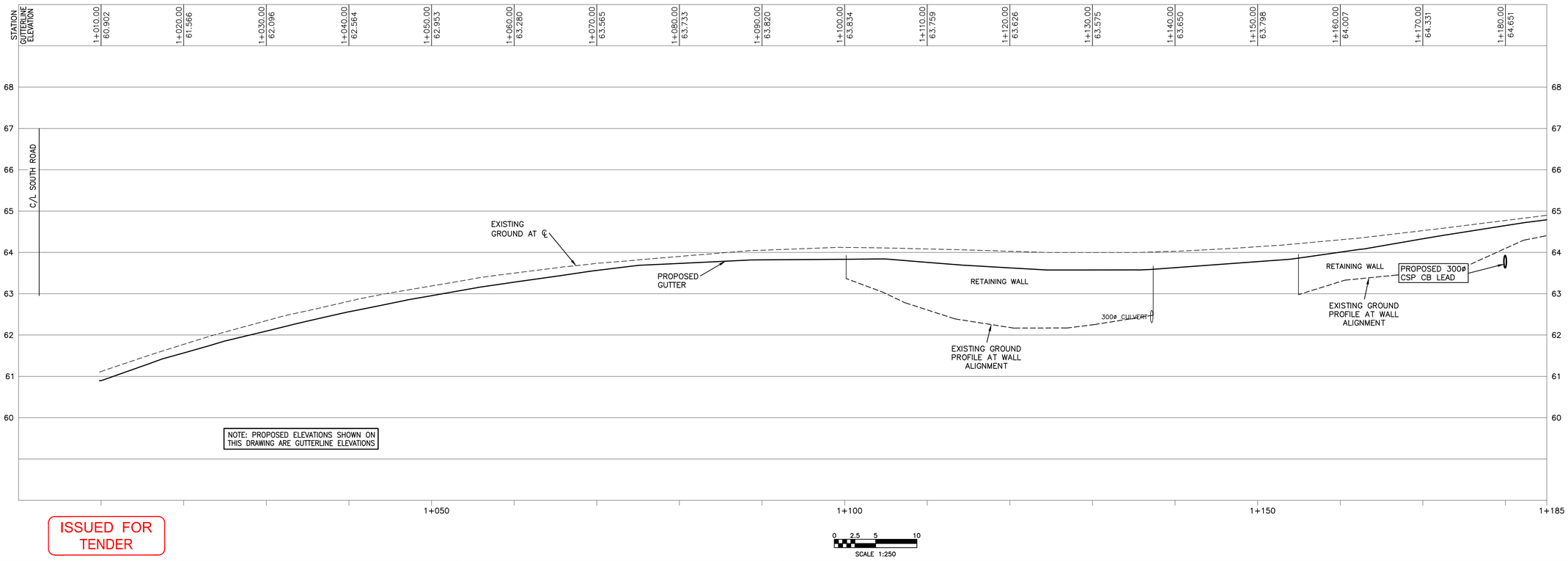
6.29.2020 P:\AUTOCAD\0100\0110-017 NORTH ROAD, GABRIOLA ISLAND\0110-017 DSA REV07



CB TABLE			
CB No.	RIM ELEV.	C/L STATION	CB TYPE
1	63.553	1+129.31	TYPE 2
2	63.553	1+130.74	TYPE 2
3	64.627	1+179.96	TYPE 2

NOTES:

1. SEE DRAWING 0110-017-01 FOR GENERAL NOTES.
2. THE LOCATIONS OF EXISTING SERVICES ARE SHOWN APPROXIMATELY AND SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK. EXISTING & PROPOSED SERVICES MAY REQUIRE ADJUSTMENT WHERE A CONFLICT OCCURS. THE ENGINEER SHALL BE NOTIFIED OF ANY CONFLICT.



ISSUED FOR TENDER

0 2.5 5 10
SCALE 1:250

Rev. No.	DATE	BY	REVISION DESCRIPTION	ENG
00	10/03/18	KA	SUBMITTED TO RDN FOR REVIEW – NOT FOR CONSTRUCTION	NBT
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LEGEND

PROP.	EXIST.		PROP.	EXIST.
WATERMAIN			HYDRANT	
STORM SEWER			ABOVE GROUND FLUSHOUT	
SANITARY SEWER			BELOW GROUND FLUSHOUT	
GAS MAIN			CATCHBASIN	
ELECTRICAL DUCT			DITCH INLET CB	
INLET/OUTLET HEADWALL			MANHOLE	
DITCH INLET/OUTLET			CLEANOUT	
SWALE			HYDRO POLE	
EDGE OF PAVEMENT			CAP	
VALVE BOX			STREETLIGHT	
LIMIT OF CONSTRUCTION			FENCE	

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ELEVATION DATUM IS GEODETIC AND IS DERIVED FROM GNSS MEASUREMENTS MADE TO GEODETIC CONTROL MONUMENT 946707 LOCATED AT THE END OF BERRY POINT ROAD ON GABRIOLA ISLAND. MONUMENT ELEVATION = 3.344m

ENGINEER'S SEAL

HORIZONTAL SCALE 1:250

VERTICAL SCALE 1:50

DESIGN NBT
DRAWN KA
CHECKED NBT
PLOT DATE 06-29-20
PRINT DATE

CLIENT NAME: REGIONAL DISTRICT OF NANAIMO

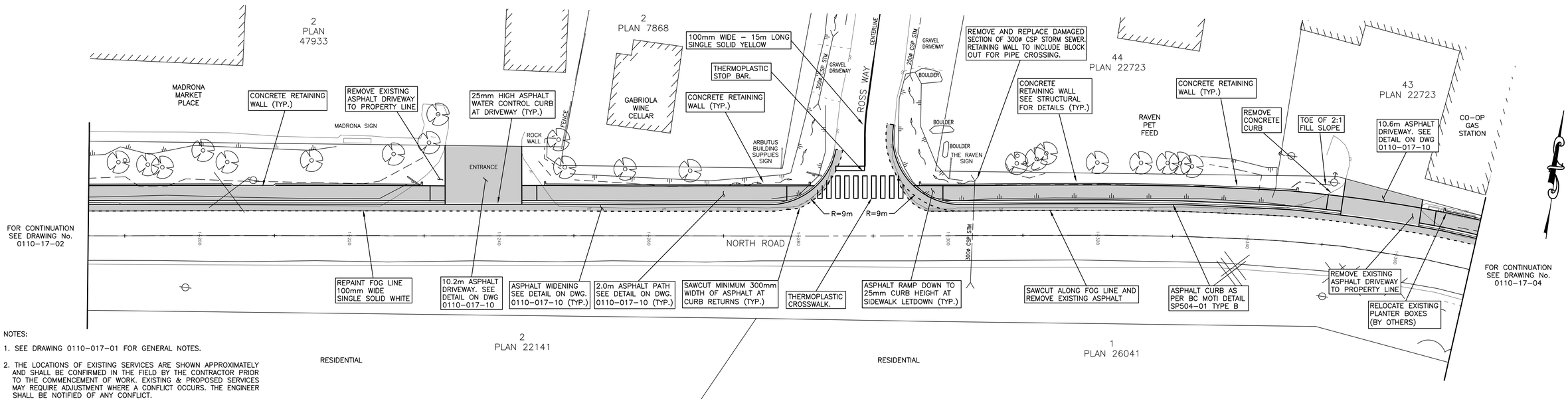
PROJECT NAME: VILLAGE WAY

DRAWING TITLE: NORTH ROAD STATION 1+000 – 1+185

NEWCASTLE ENGINEERING LTD.
4-3179 BARONS ROAD
NANAIMO, B.C. V9T 5W5
PHONE (250) 756-9553

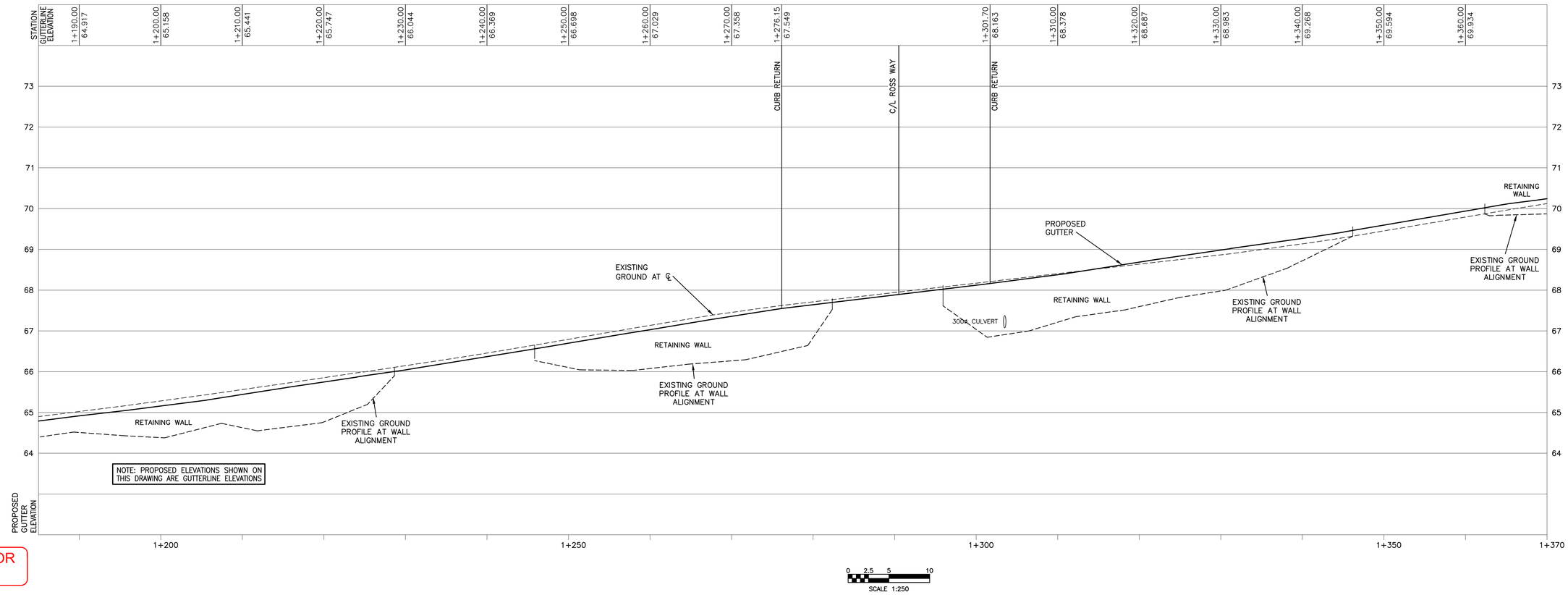
PROJECT No. 0110-017 | DRAWING No. 02 | REVISION No. 07 | RDN PLAN FILE No.

6.29.2020 P:\AUTOCAD\0100\0110-017 NORTH ROAD, GABRIOLA ISLAND\0110-017 ISA REV07



NOTES:

1. SEE DRAWING 0110–017–01 FOR GENERAL NOTES.
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SCALE 1:250 (0, 2.5, 5, 10)

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DESIGN	NBT
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CHECKED	NBT
PLOT DATE	06–29–20
PRINT DATE	
HORIZONTAL SCALE	1:250
VERTICAL SCALE	1:50

CLIENT NAME: REGIONAL DISTRICT OF NANAIMO

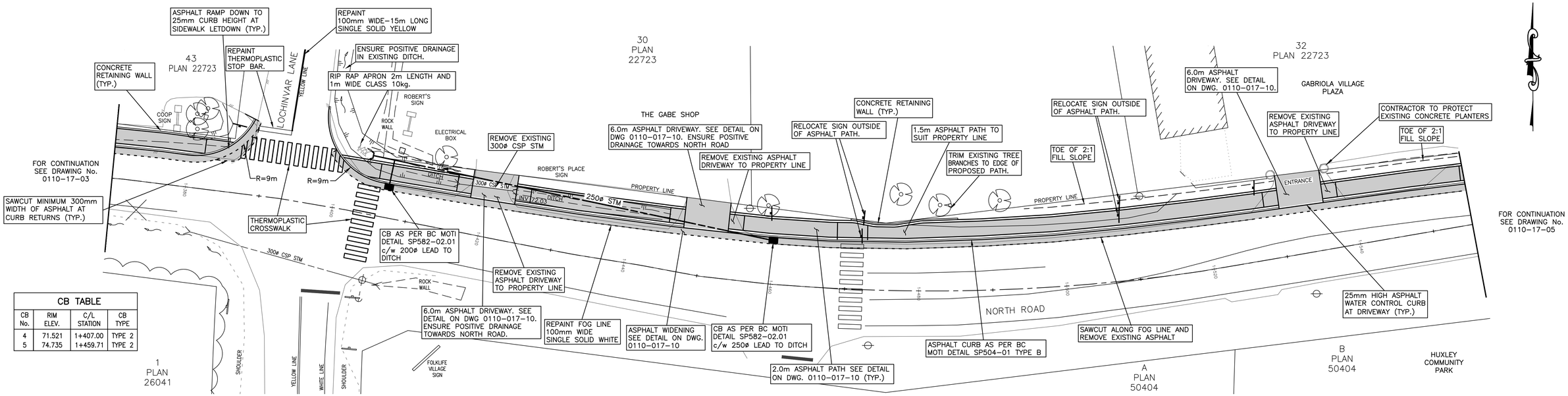
PROJECT NAME: VILLAGE WAY

DRAWING TITLE: NORTH ROAD
STATION 1+185 – 1+370

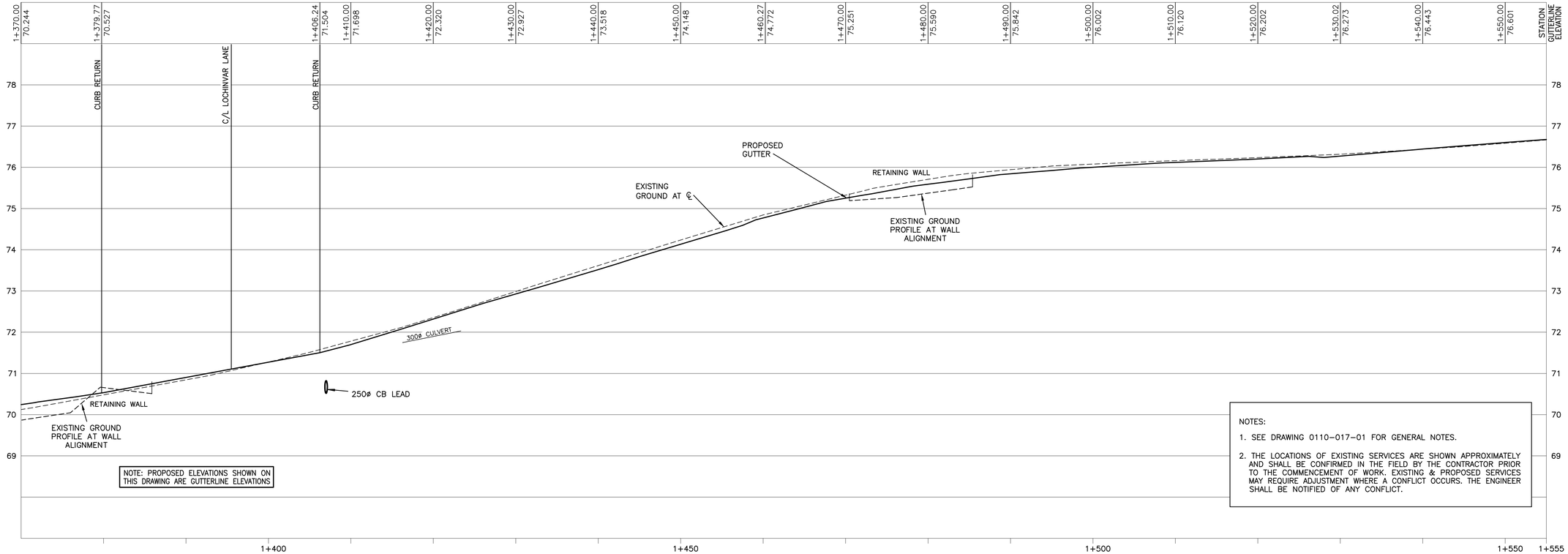
NEWCASTLE ENGINEERING LTD.
4–3179 BARONS ROAD
NANAIMO, B.C. V9T 5W5
PHONE (250) 756–9553

PROJECT No.	DRAWING No.	REVISION No.	RDN PLAN FILE No.
0110–017	03	07	

6.29.2020 P:\AUTOCAD\0100\0110–017 NORTH ROAD, GABRIOLA ISLAND\0110–017 ISSA REV07



CB TABLE			
CB No.	RIM ELEV.	C/L STATION	CB TYPE
4	71.521	1+407.00	TYPE 2
5	74.735	1+459.71	TYPE 2



NOTE: PROPOSED ELEVATIONS SHOWN ON THIS DRAWING ARE GUTTERLINE ELEVATIONS

NOTES:

1. SEE DRAWING 0110–017–01 FOR GENERAL NOTES.
2. THE LOCATIONS OF EXISTING SERVICES ARE SHOWN APPROXIMATELY AND SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK. EXISTING & PROPOSED SERVICES MAY REQUIRE ADJUSTMENT WHERE A CONFLICT OCCURS. THE ENGINEER SHALL BE NOTIFIED OF ANY CONFLICT.

SCALE 1:250

ISSUED FOR TENDER

Rev. No.	DATE	BY	REVISION DESCRIPTION	ENG
00	10/03/18	KA	SUBMITTED TO RDN FOR REVIEW – NOT FOR CONSTRUCTION	NBT
01	10/10/18	KA	REVISED PATH ALIGNMENT – NOT FOR CONSTRUCTION	NBT
02	01/14/19	KA	BC MOTI COMMENTS ADDRESSED – NOT FOR CONSTRUCTION	NBT
03	01/25/19	KA	RDN COMMENTS ADDRESSED – NOT FOR CONSTRUCTION	NBT
04	08/08/19	KA	BC MOTI COMMENTS ADDRESSED – NOT FOR CONSTRUCTION	NBT
05	09/19/19	HL	RDN COMMENTS ADDRESSED – NOT FOR CONSTRUCTION	NBT
06	06/05/20	bh	ISSUED FOR APPROVAL – NOT FOR CONSTRUCTION	NBT
07	06/29/20	bh	ISSUED FOR TENDER – NOT FOR CONSTRUCTION	NBT

LEGEND

PROP.	EXIST.		PROP.	EXIST.
WATERMAIN			HYDRANT	
STORM SEWER			ABOVE GROUND FLUSHOUT	
SANITARY SEWER			BELOW GROUND FLUSHOUT	
GAS MAIN			CATCHBASIN	
ELECTRICAL DUCT			DITCH INLET CB	
INLET/OUTLET HEADWALL			MANHOLE	
DITCH INLET/OUTLET			CLEANOUT	
SWALE			HYDRO POLE	
EDGE OF PAVEMENT			CAP	
VALVE BOX			STREETLIGHT	
LIMIT OF CONSTRUCTION			FENCE	

SITE LEGAL DESCRIPTION

ROAD RIGHT OF WAY ON NORTH ROAD
FROM SOUTH ROAD INTERSECTION
TO TIN CAN ALLEY ON GABRIOLA ISLAND

BENCHMARK DESCRIPTION

ELEVATION DATUM IS GEODETIC AND IS DERIVED FROM GNSS MEASUREMENTS MADE TO GEODETIC CONTROL MONUMENT 946707 LOCATED AT THE END OF BERRY POINT ROAD ON GABRIOLA ISLAND. MONUMENT ELEVATION = 3.344m

ENGINEER'S SEAL

DESIGN	NBT
DRAWN	KA
CHECKED	NBT
PLOT DATE	06–29–20
PRINT DATE	
HORIZONTAL SCALE	1:250
VERTICAL SCALE	1:50

CLIENT NAME: REGIONAL DISTRICT OF NANAIMO

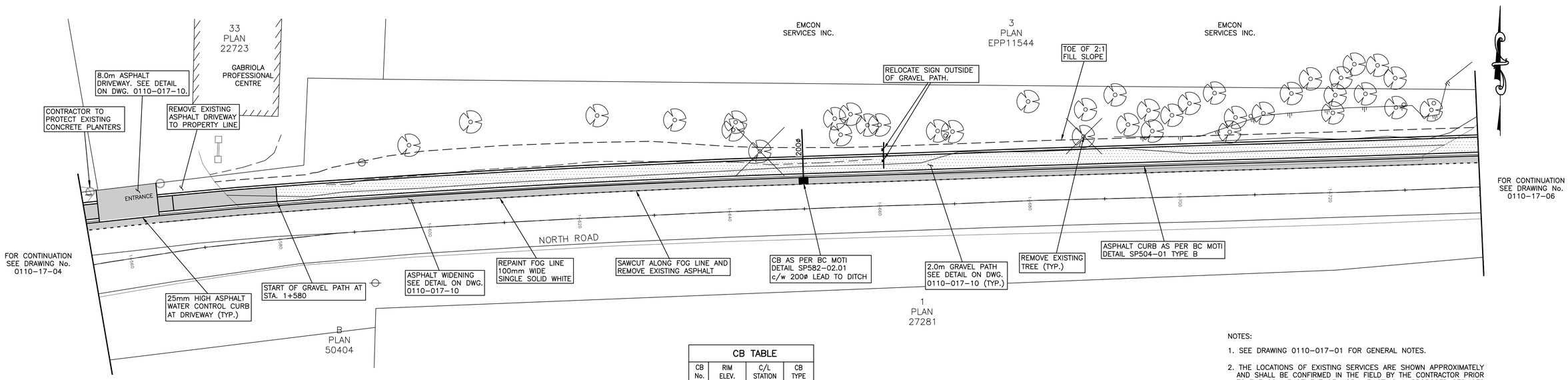
PROJECT NAME: VILLAGE WAY

DRAWING TITLE: NORTH ROAD
STATION 1+370 – 1+555

NEWCASTLE ENGINEERING LTD.
4–3179 BARONS ROAD
NANAIMO, B.C. V9T 5W5
PHONE (250) 758–9553

PROJECT No.	DRAWING No.	REVISION No.	RDN PLAN FILE No.
0110–017	04	07	

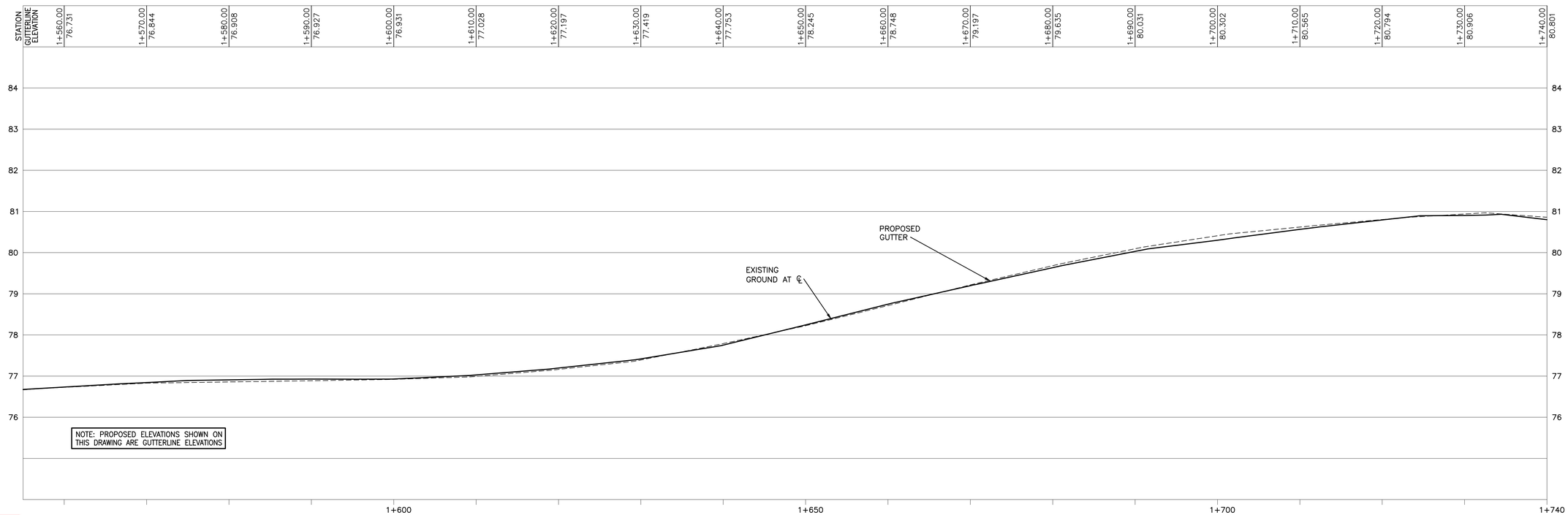
6.29.2020 P:\AUTOCAD\0100\0110–017 NORTH ROAD, GABRIOLA ISLAND\0110–017 DSA REV07



CB TABLE			
CB No.	RIM ELEV.	C/L STATION	CB TYPE
6	78.224	1+650.02	TYPE 2

NOTES:

1. SEE DRAWING 0110–017–01 FOR GENERAL NOTES.
2. THE LOCATIONS OF EXISTING SERVICES ARE SHOWN APPROXIMATELY AND SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK. EXISTING & PROPOSED SERVICES MAY REQUIRE ADJUSTMENT WHERE A CONFLICT OCCURS. THE ENGINEER SHALL BE NOTIFIED OF ANY CONFLICT.



ISSUED FOR TENDER

0 2.5 5 10
SCALE 1:250

Rev. No.	DATE	BY	REVISION DESCRIPTION	ENG
00	10/03/18	KA	SUBMITTED TO RDN FOR REVIEW – NOT FOR CONSTRUCTION	NBT
01	10/10/18	KA	REVISED PATH ALIGNMENT – NOT FOR CONSTRUCTION	NBT
02	01/14/19	KA	BC MOTI COMMENTS ADDRESSED – NOT FOR CONSTRUCTION	NBT
03	01/25/19	KA	RDN COMMENTS ADDRESSED – NOT FOR CONSTRUCTION	NBT
04	08/08/19	KA	BC MOTI COMMENTS ADDRESSED – NOT FOR CONSTRUCTION	NBT
05	09/19/19	HL	RDN COMMENTS ADDRESSED – NOT FOR CONSTRUCTION	NBT
06	06/05/20	bh	ISSUED FOR APPROVAL – NOT FOR CONSTRUCTION	NBT
07	06/29/20	bh	ISSUED FOR TENDER – NOT FOR CONSTRUCTION	NBT

LEGEND

PROP.	EXIST.		PROP.	EXIST.
WATERMAIN			HYDRANT	
STORM SEWER			ABOVE GROUND FLUSHOUT	
SANITARY SEWER			BELOW GROUND FLUSHOUT	
GAS MAIN			CATCHBASIN	
ELECTRICAL DUCT			DITCH INLET CB	
INLET/OUTLET HEADWALL			MANHOLE	
DITCH INLET/OUTLET			CLEANOUT	
SWALE			HYDRO POLE	
EDGE OF PAVEMENT			CAP	
VALVE BOX			STREETLIGHT	
LIMIT OF CONSTRUCTION			FENCE	

SITE LEGAL DESCRIPTION

ROAD RIGHT OF WAY ON NORTH ROAD
FROM SOUTH ROAD INTERSECTION
TO TIN CAN ALLEY ON GABRIOLA ISLAND

BENCHMARK DESCRIPTION

ELEVATION DATUM IS GEODETIC AND IS DERIVED FROM GNSS MEASUREMENTS MADE TO GEODETIC CONTROL MONUMENT 946707 LOCATED AT THE END OF BERRY POINT ROAD ON GABRIOLA ISLAND. MONUMENT ELEVATION = 3.344m

ENGINEER'S SEAL

DESIGN	NBT
DRAWN	KA
CHECKED	NBT
PLOT DATE	06–29–20
PRINT DATE	
HORIZONTAL SCALE	1:250
VERTICAL SCALE	1:50

CLIENT NAME

REGIONAL DISTRICT OF NANAIMO

PROJECT NAME

VILLAGE WAY

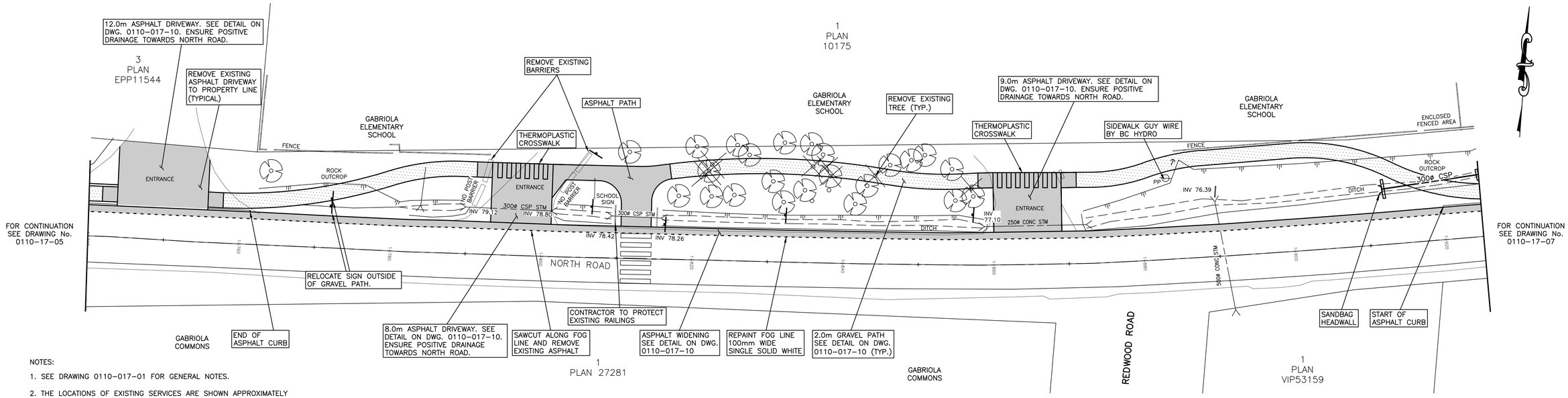
DRAWING TITLE

NORTH ROAD
STATION 1+555 – 1+740

NEWCASTLE
ENGINEERING LTD.
4–3179 BARONS ROAD
NANAIMO, B.C. V9T 5W5
PHONE (250) 756–9553

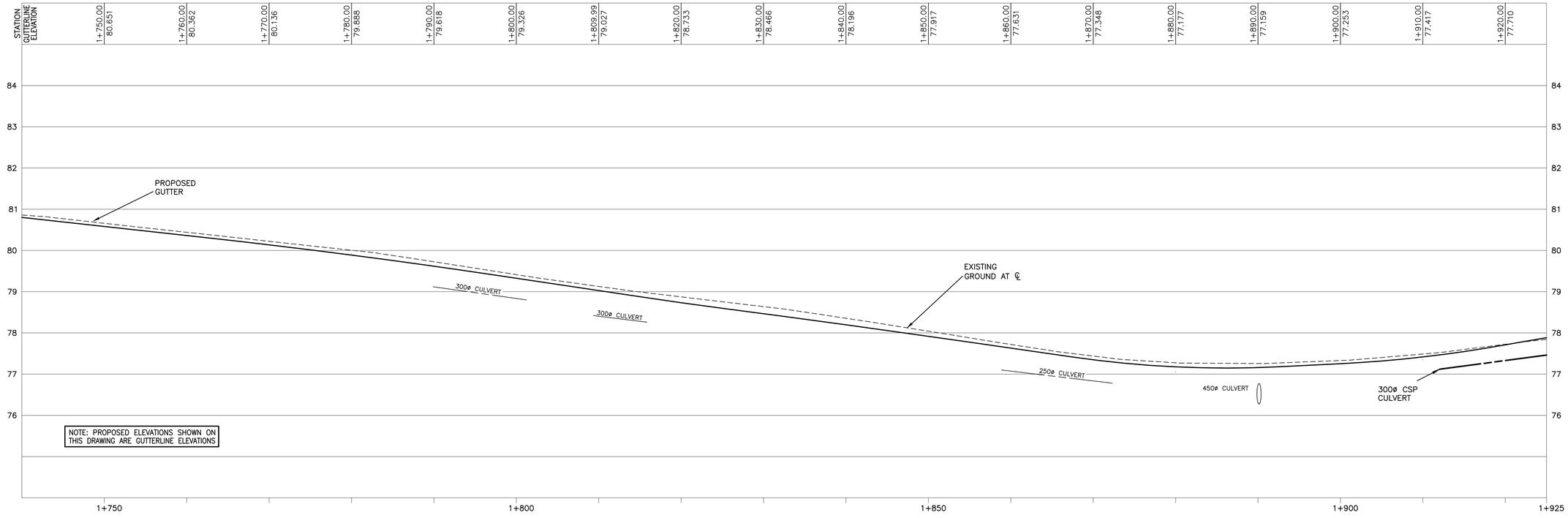
PROJECT No.	DRAWING No.	REVISION No.	RDN PLAN FILE No.
0110–017	05	07	

6.29.2020 P:\AUTOCAD\0100\0110–017 NORTH ROAD, GABRIOLA ISLAND\0110–017 DSA REV07



NOTES:

1. SEE DRAWING 0110-017-01 FOR GENERAL NOTES.
2. THE LOCATIONS OF EXISTING SERVICES ARE SHOWN APPROXIMATELY AND SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK. EXISTING & PROPOSED SERVICES MAY REQUIRE ADJUSTMENT WHERE A CONFLICT OCCURS. THE ENGINEER SHALL BE NOTIFIED OF ANY CONFLICT.



NOTE: PROPOSED ELEVATIONS SHOWN ON THIS DRAWING ARE GUTTERLINE ELEVATIONS

ISSUED FOR TENDER

SCALE 1:250 (0, 2.5, 5, 10)

Rev. No.	DATE	BY	REVISION DESCRIPTION	ENG
00	10/03/18	KA	SUBMITTED TO RDN FOR REVIEW – NOT FOR CONSTRUCTION	NBT
01	10/10/18	KA	REVISED PATH ALIGNMENT – NOT FOR CONSTRUCTION	NBT
02	01/14/19	KA	BC MOTI COMMENTS ADDRESSED – NOT FOR CONSTRUCTION	NBT
03	01/25/19	KA	RDN COMMENTS ADDRESSED – NOT FOR CONSTRUCTION	NBT
04	08/08/19	KA	BC MOTI COMMENTS ADDRESSED – NOT FOR CONSTRUCTION	NBT
05	09/19/19	HL	RDN COMMENTS ADDRESSED – NOT FOR CONSTRUCTION	NBT
06	06/05/20	bh	ISSUED FOR APPROVAL – NOT FOR CONSTRUCTION	NBT
07	06/29/20	bh	ISSUED FOR TENDER – NOT FOR CONSTRUCTION	NBT

LEGEND

PROP.	EXIST.	PROP.	EXIST.
WATERMAIN		HYDRANT	
STORM SEWER		ABOVE GROUND FLUSHOUT	
SANITARY SEWER		BELOW GROUND FLUSHOUT	
GAS MAIN		CATCHBASIN	
ELECTRICAL DUCT		DITCH INLET CB	
INLET/OUTLET HEADWALL		MANHOLE	
DITCH INLET/OUTLET		CLEANOUT	
SWALE		HYDRO POLE	
EDGE OF PAVEMENT		CAP	
VALVE BOX		STREETLIGHT	
LIMIT OF CONSTRUCTION		FENCE	

SITE LEGAL DESCRIPTION

ROAD RIGHT OF WAY ON NORTH ROAD
FROM SOUTH ROAD INTERSECTION
TO TIN CAN ALLEY ON GABRIOLA ISLAND

BENCHMARK DESCRIPTION

ELEVATION DATUM IS GEODETIC AND IS DERIVED FROM GNSS MEASUREMENTS MADE TO GEODETIC CONTROL MONUMENT 946707 LOCATED AT THE END OF BERRY POINT ROAD ON GABRIOLA ISLAND. MONUMENT ELEVATION = 3.344m

ENGINEER'S SEAL

DESIGN	NBT
DRAWN	KA
CHECKED	NBT
PLOT DATE	06-29-20
PRINT DATE	
HORIZONTAL SCALE	1:250
VERTICAL SCALE	1:50

CLIENT NAME: REGIONAL DISTRICT OF NANAIMO

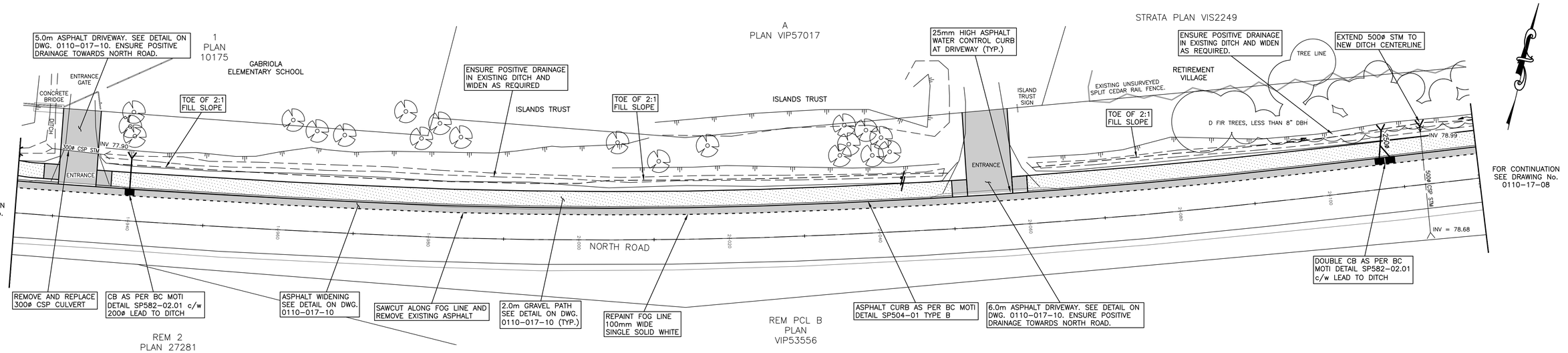
PROJECT NAME: VILLAGE WAY

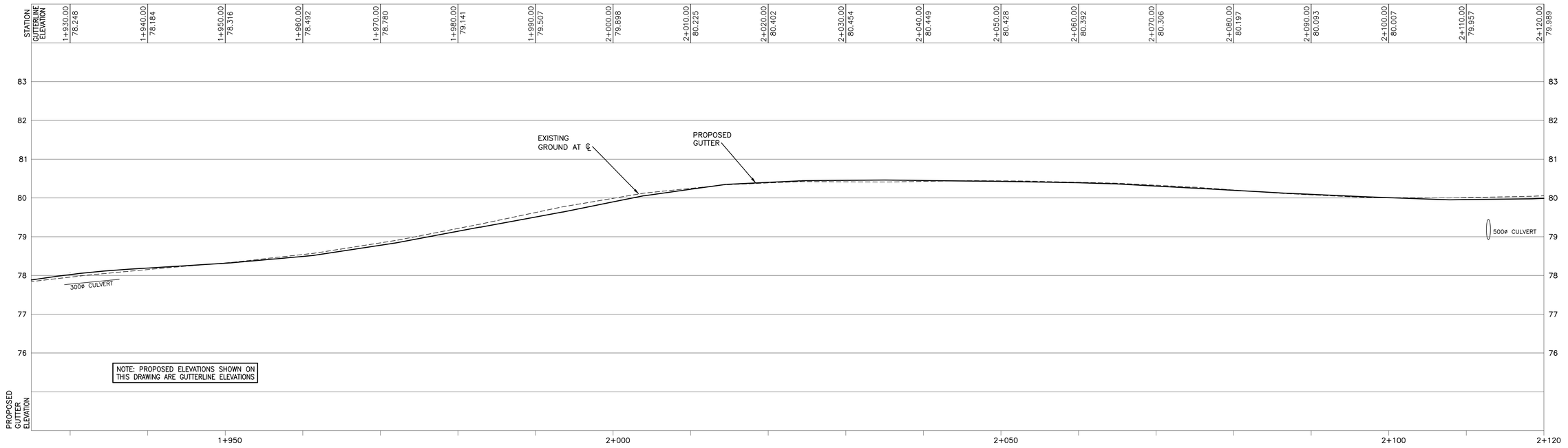
DRAWING TITLE: NORTH ROAD STATION 1+740 – 1+925

NEWCASTLE ENGINEERING LTD.
4-3179 BARONS ROAD
NANAIMO, B.C. V9T 5W5
PHONE (250) 756-9553

PROJECT No.	DRAWING No.	REVISION No.	RDN PLAN FILE No.
0110-017	06	07	

6.29.2020 P:\AUTOCAD\0100\0110-017 NORTH ROAD, GABRIOLA ISLAND\0110-017 SSA REV07





CB TABLE			
CB No.	RIM ELEV.	C/L STATION	CB TYPE
7	78.163	1+940.03	TYPE 2
8	79.931	2+107.38	TYPE 2
9	79.931	2+108.50	TYPE 2

NOTES:

1. SEE DRAWING 0110-017-01 FOR GENERAL NOTES.
2. THE LOCATIONS OF EXISTING SERVICES ARE SHOWN APPROXIMATELY AND SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK. EXISTING & PROPOSED SERVICES MAY REQUIRE ADJUSTMENT WHERE A CONFLICT OCCURS. THE ENGINEER SHALL BE NOTIFIED OF ANY CONFLICT.

0 2.5 5 10
SCALE 1:250

ISSUED FOR TENDER

Rev. No.	DATE	BY	REVISION DESCRIPTION	ENG
00	10/03/18	KA	SUBMITTED TO RDN FOR REVIEW – NOT FOR CONSTRUCTION	NBT
01	10/10/18	KA	REVISED PATH ALIGNMENT – NOT FOR CONSTRUCTION	NBT
02	01/14/19	KA	BC MOTI COMMENTS ADDRESSED – NOT FOR CONSTRUCTION	NBT
03	01/25/19	KA	RDN COMMENTS ADDRESSED – NOT FOR CONSTRUCTION	NBT
04	08/08/19	KA	BC MOTI COMMENTS ADDRESSED – NOT FOR CONSTRUCTION	NBT
05	09/19/19	HL	RDN COMMENTS ADDRESSED – NOT FOR CONSTRUCTION	NBT
06	06/05/20	bh	ISSUED FOR APPROVAL – NOT FOR CONSTRUCTION	NBT
07	06/29/20	bh	ISSUED FOR TENDER – NOT FOR CONSTRUCTION	NBT

LEGEND

PROP.	EXIST.		PROP.	EXIST.	
		WATERMAIN			HYDRANT
		STORM SEWER			ABOVE GROUND FLUSHOUT
		SANITARY SEWER			BELOW GROUND FLUSHOUT
		GAS MAIN			CATCHBASIN
		ELECTRICAL DUCT			DITCH INLET CB
		INLET/OUTLET HEADWALL			MANHOLE
		DITCH INLET/OUTLET			CLEANOUT
		SWALE			HYDRO POLE
		EDGE OF PAVEMENT			CAP
		VALVE BOX			STREETLIGHT
		LIMIT OF CONSTRUCTION			FENCE

SITE LEGAL DESCRIPTION

ROAD RIGHT OF WAY ON NORTH ROAD
FROM SOUTH ROAD INTERSECTION
TO TIN CAN ALLEY ON GABRIOLA ISLAND

BENCHMARK DESCRIPTION

ELEVATION DATUM IS GEODETIC AND IS DERIVED FROM GNSS MEASUREMENTS MADE TO GEODETIC CONTROL MONUMENT 946707 LOCATED AT THE END OF BERRY POINT ROAD ON GABRIOLA ISLAND. MONUMENT ELEVATION = 3.344m

ENGINEER'S SEAL

HORIZONTAL SCALE 1:250

VERTICAL SCALE 1:50

DESIGN	NBT
DRAWN	KA
CHECKED	NBT
PLOT DATE	06-29-20
PRINT DATE	

CLIENT NAME: REGIONAL DISTRICT OF NANAIMO

PROJECT NAME: VILLAGE WAY

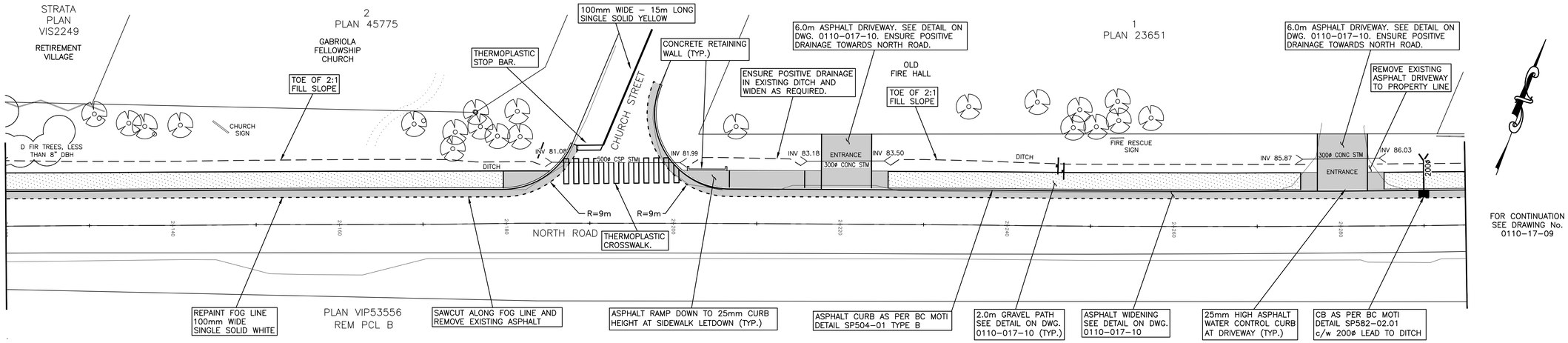
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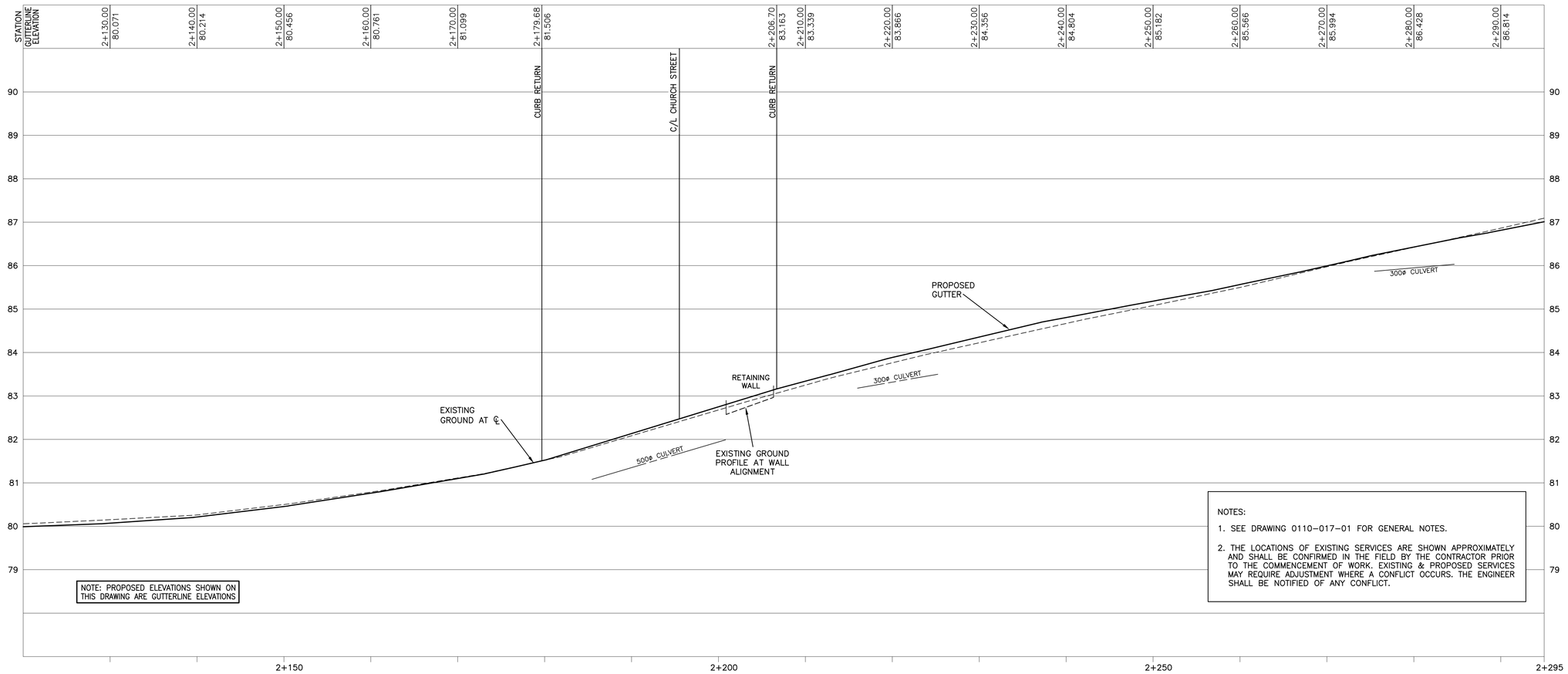
NORTH ROAD
STATION 1+925 – 2+120

NEWCASTLE ENGINEERING LTD.
4-3179 BARONS ROAD
NANAIMO, B.C. V9T 5W5
PHONE (250) 756-9553

PROJECT No.	DRAWING No.	REVISION No.	RDN PLAN FILE No.
0110-017	07	07	

6.29.2020 P:\AUTOCAD\0100\0110-017 NORTH ROAD, GABRIOLA ISLAND\0110-017 XSA REV07





NOTE: PROPOSED ELEVATIONS SHOWN ON THIS DRAWING ARE GUTTERLINE ELEVATIONS

NOTES:

1. SEE DRAWING 0110–017–01 FOR GENERAL NOTES.
2. THE LOCATIONS OF EXISTING SERVICES ARE SHOWN APPROXIMATELY AND SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK. EXISTING & PROPOSED SERVICES MAY REQUIRE ADJUSTMENT WHERE A CONFLICT OCCURS. THE ENGINEER SHALL BE NOTIFIED OF ANY CONFLICT.

ISSUED FOR TENDER

0 2.5 5 10
SCALE 1:250

Rev. No.	DATE	BY	REVISION DESCRIPTION	ENG
00	10/03/18	KA	SUBMITTED TO RDN FOR REVIEW – NOT FOR CONSTRUCTION	NBT
01	10/10/18	KA	REVISED PATH ALIGNMENT – NOT FOR CONSTRUCTION	NBT
02	01/14/19	KA	BC MOTI COMMENTS ADDRESSED – NOT FOR CONSTRUCTION	NBT
03	01/25/19	KA	RDN COMMENTS ADDRESSED – NOT FOR CONSTRUCTION	NBT
04	08/08/19	KA	BC MOTI COMMENTS ADDRESSED – NOT FOR CONSTRUCTION	NBT
05	09/19/19	HL	RDN COMMENTS ADDRESSED – NOT FOR CONSTRUCTION	NBT
06	06/05/20	bh	ISSUED FOR APPROVAL – NOT FOR CONSTRUCTION	NBT
07	06/29/20	bh	ISSUED FOR TENDER – NOT FOR CONSTRUCTION	NBT

LEGEND

PROP.	EXIST.	PROP.	EXIST.
WATERMAIN		HYDRANT	
STORM SEWER		ABOVE GROUND FLUSHOUT	
SANITARY SEWER		BELOW GROUND FLUSHOUT	
GAS MAIN		CATCHBASIN	
ELECTRICAL DUCT		DITCH INLET CB	
INLET/OUTLET HEADWALL		MANHOLE	
DITCH INLET/OUTLET		CLEANOUT	
SWALE		HYDRO POLE	
EDGE OF PAVEMENT		CAP	
VALVE BOX		STREETLIGHT	
LIMIT OF CONSTRUCTION		FENCE	

SITE LEGAL DESCRIPTION
ROAD RIGHT OF WAY ON NORTH ROAD FROM SOUTH ROAD INTERSECTION TO TIN CAN ALLEY ON GABRIOLA ISLAND

BENCHMARK DESCRIPTION
ELEVATION DATUM IS GEODETIC AND IS DERIVED FROM GNSS MEASUREMENTS MADE TO GEODETIC CONTROL MONUMENT 946707 LOCATED AT THE END OF BERRY POINT ROAD ON GABRIOLA ISLAND. MONUMENT ELEVATION = 3.344m

ENGINEER'S SEAL

HORIZONTAL SCALE 1:250
VERTICAL SCALE 1:50

DESIGN NBT
DRAWN KA
CHECKED NBT
PLOT DATE 06–29–20
PRINT DATE

CLIENT NAME: REGIONAL DISTRICT OF NANAIMO

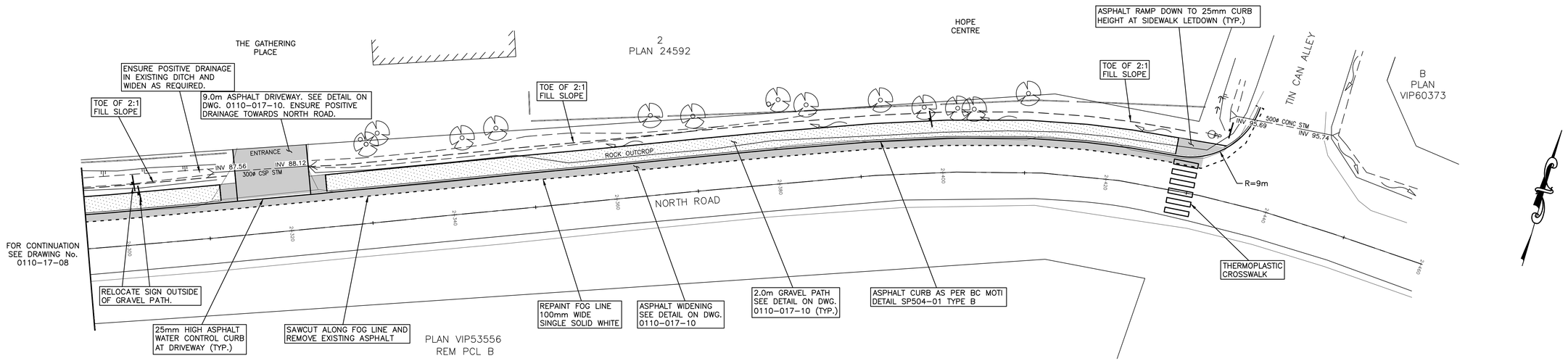
PROJECT NAME: VILLAGE WAY

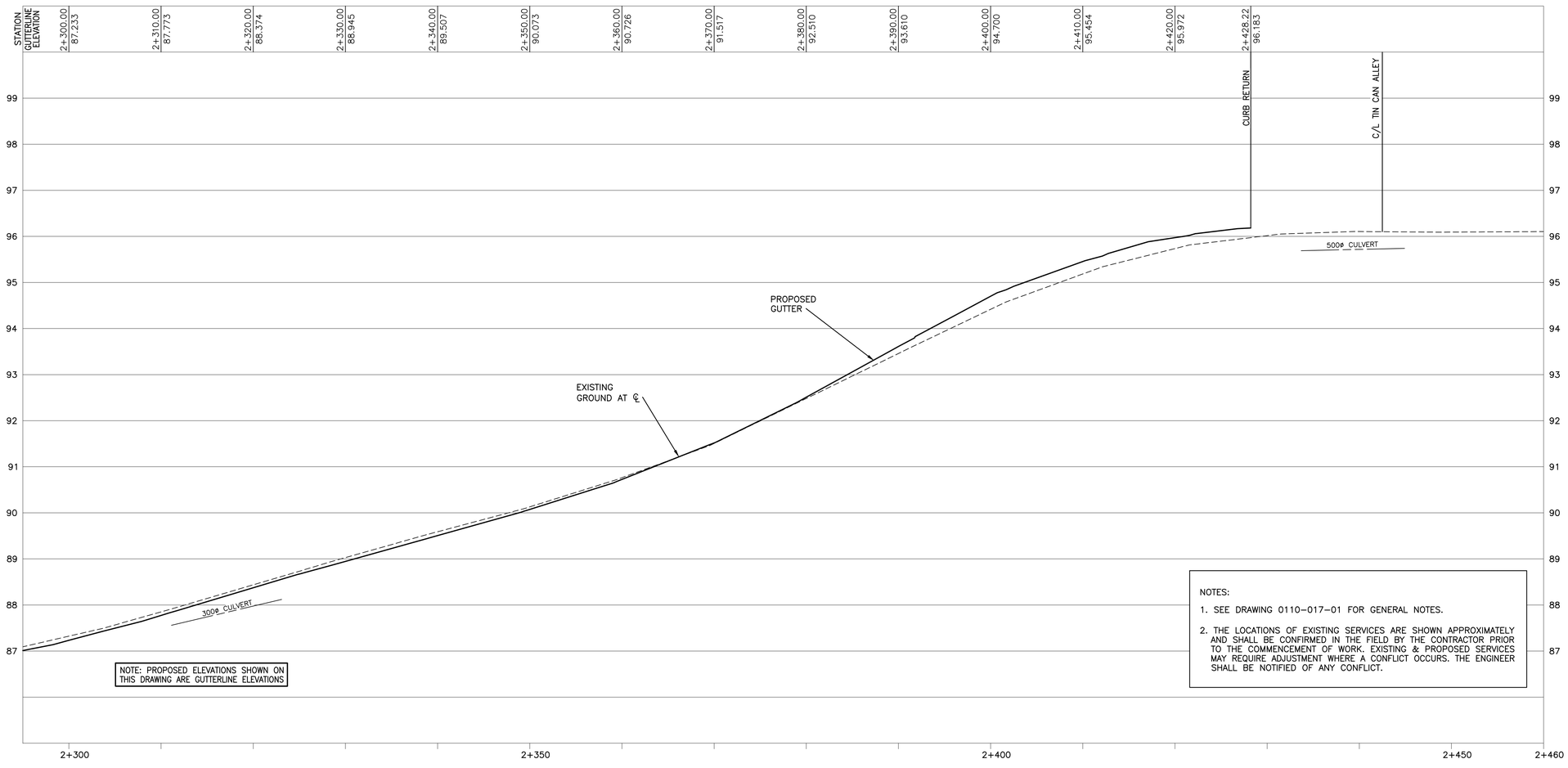
DRAWING TITLE
NORTH ROAD
STATION 2+120 – 2+295

NEWCASTLE ENGINEERING LTD.
4–3179 BARONS ROAD
NANAIMO, B.C. V9T 5W5
PHONE (250) 756–9553

PROJECT No. 0110–017 | DRAWING No. 08 | REVISION No. 07 | RDN PLAN FILE No.

6.29.2020 P:\AUTOCAD\0100\0110–017 NORTH ROAD, GABRIOLA ISLAND\0110–017 DSA REV07





NOTE: PROPOSED ELEVATIONS SHOWN ON THIS DRAWING ARE GUTTERLINE ELEVATIONS

CB TABLE			
CB No.	RIM ELEV.	C/L STATION	CB TYPE
10	86.793	2+290.03	TYPE 2

NOTES:

1. SEE DRAWING 0110-017-01 FOR GENERAL NOTES.
2. THE LOCATIONS OF EXISTING SERVICES ARE SHOWN APPROXIMATELY AND SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK. EXISTING & PROPOSED SERVICES MAY REQUIRE ADJUSTMENT WHERE A CONFLICT OCCURS. THE ENGINEER SHALL BE NOTIFIED OF ANY CONFLICT.

ISSUED FOR TENDER

0 2.5 5 10
SCALE 1:250

NEWCASTLE ENGINEERING LTD.
4-3179 BARONS ROAD
NANAIMO, B.C. V9T 5W5
PHONE (250) 756-9553

No.	DATE	REVISION DESCRIPTION
00	10/03/18	SUBMITTED TO RDN FOR REVIEW – NOT FOR CONSTRUCTION
01	10/10/18	REVISED PATH ALIGNMENT – NOT FOR CONSTRUCTION
02	01/14/19	BC MOTI COMMENTS ADDRESSED – NOT FOR CONSTRUCTION
03	01/25/19	RDN COMMENTS ADDRESSED – NOT FOR CONSTRUCTION
04	08/08/19	BC MOTI COMMENTS ADDRESSED – NOT FOR CONSTRUCTION
05	09/19/19	RDN COMMENTS ADDRESSED – NOT FOR CONSTRUCTION
06	06/05/20	ISSUED FOR APPROVAL – NOT FOR CONSTRUCTION
07	06/29/20	ISSUED FOR TENDER – NOT FOR CONSTRUCTION

BENCHMARK DESCRIPTION

ELEVATIONS ARE GEODETIC AND ARE DERIVED FROM GNSS MEASUREMENTS MADE TO GEODETIC CONTROL MONUMENT 946707 LOCATED AT THE END OF BERRY POINT ROAD ON GABRIOLA ISLAND. MONUMENT ELEVATION 3.344m

SITE LEGAL DESCRIPTION

ROAD RIGHT OF WAY ON NORTH ROAD FROM SOUTH ROAD INTERSECTION TO TIN CAN ALLEY ON GABRIOLA ISLAND

LEGEND

PROP.		EXIST.
	WATERMAIN	
	STORM SEWER	
	SANITARY SEWER	
	GAS MAIN	
	ELECTRICAL DUCT	
	CULVERT & DITCH	
	DITCH INLET/OUTLET	
	SWALE	
	EDGE OF PAVEMENT	
	VALVE BOX	
	LIMIT OF CONSTRUCTION	
	HYDRANT	
	ABOVE GROUND FLUSHOUT	
	BELOW GROUND FLUSHOUT	
	CATCHBASIN	
	MANHOLE	
	CLEANOUT	
	HYDRO POLE	
	CAP	
	PLUG	
	STREETLIGHT	
	FENCE	

NOTE:

ENGINEER'S SEAL

DESIGN: NBT
DRAWN: KA
PLOT DATE: 06-29-20
PRINT DATE:

HORIZONTAL SCALE: 1:250
VERTICAL SCALE: 1:50

CLIENT NAME: REGIONAL DISTRICT OF NANAIMO

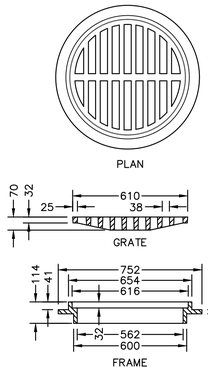
PROJECT NAME: VILLAGE WAY

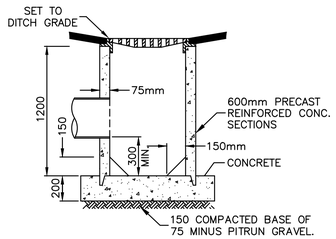
DRAWING TITLE: NORTH ROAD STATION 2+295 -2+460

PROJECT No.: 0110-017

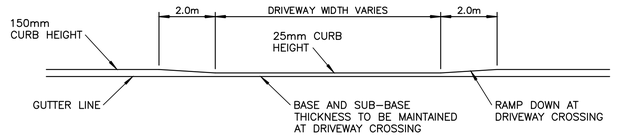
DRAWING No.: 09
REVISION No.: 07

CITY PLAN No.:

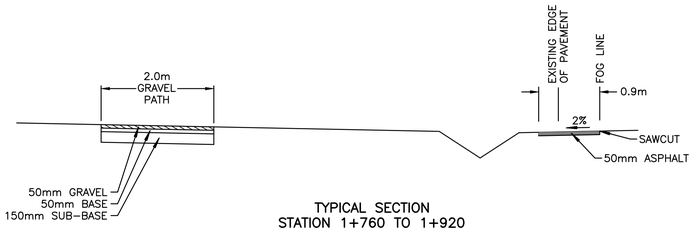




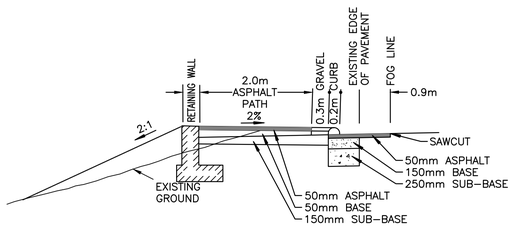
ROUND CATCHBASIN DETAIL
N.T.S.



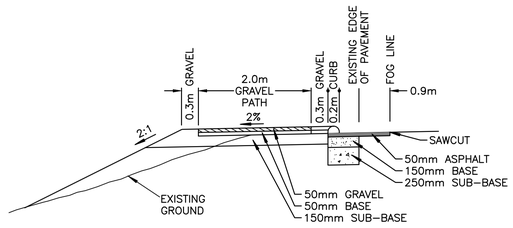
TYPICAL ACCESS DRIVEWAY – PROFILE VIEW
N.T.S.



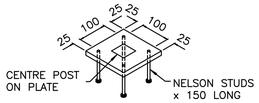
TYPICAL SECTION
STATION 1+760 TO 1+920
N.T.S.



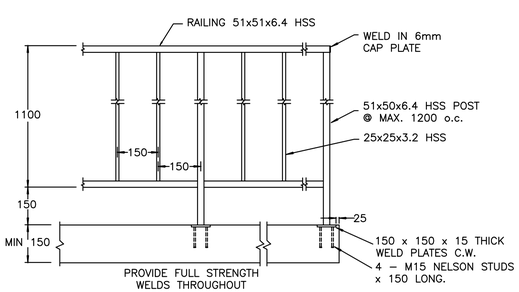
TYPICAL SECTION
STATION 1+005 TO 1+580
N.T.S.



TYPICAL SECTION
STATION 1+580 TO 1+760
N.T.S.



DETAIL– WELD PLATE FOR RAILING POST
NTS



ELEVATION OF RAILING
NTS

NOTES:

1. SUPPLY, FABRICATION, ERECTION, STRUCTURAL DESIGN AND DETAILING OF ALL MISCELLANEOUS STEEL ARE TO BE IN ACCORDANCE WITH CSA CAN3–S16.1.

2. ALL WELDING IS TO CONFORM TO CSA W59 AND TO BE PERFORMED ONLY BY FABRICATION SHOPS CURRENTLY APPROVED BY THE CANADIAN WELDING BUREAU TO CSA W47.1 FOR DIVISION 1 OR 2 REQUIREMENTS. PROVIDE FULL STRENGTH WELDS AND ALL WELDS ARE TO BE CONTINUOUS FOR THE LENGTH OF EACH JOINT. GRIND AND FILE WELDS SMOOTH AND FLUSH.

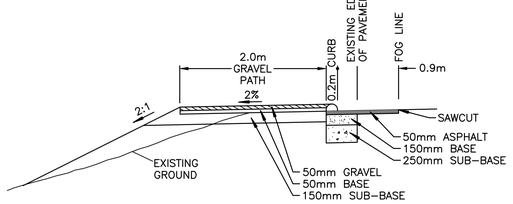
3. ALL STEEL IS TO CONFORM TO THE REQUIREMENTS OF THE FOLLOWING STANDARDS:
- ROLLED SECTIONS AND PLATE: CAN/CSA–G40.21, GRADE 300W.
- HSS SECTIONS: CAN/CSA–G40.21, GRADE 350W, CLASS C OR CLASS H.
- WELDING ELECTRODES: CSA W48 SERIES AND APPLICABLE AWS–A5 SERIES.

4. ALL STEEL IS TO BE HOT DIPPED GALVANIZED WITH BLACK POWDER COATING.

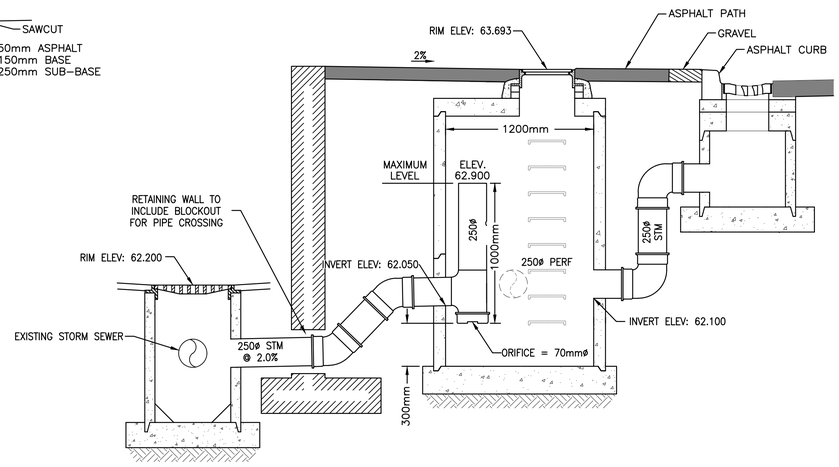
NOTES:

1. SEE DRAWING 0110–017–01 FOR GENERAL NOTES.

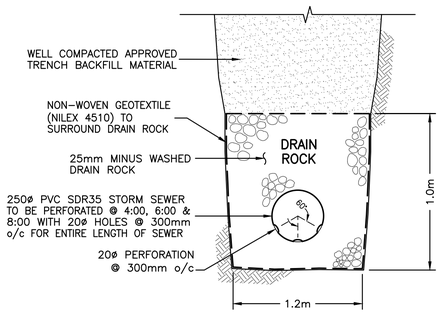
2. THE LOCATIONS OF EXISTING SERVICES ARE SHOWN APPROXIMATELY AND SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK. EXISTING & PROPOSED SERVICES MAY REQUIRE ADJUSTMENT WHERE A CONFLICT OCCURS. THE ENGINEER SHALL BE NOTIFIED OF ANY CONFLICT.



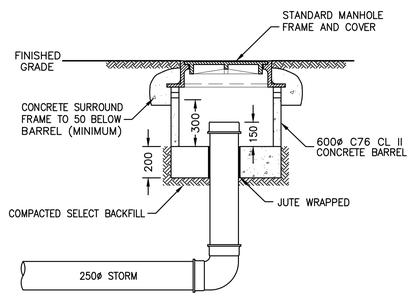
TYPICAL SECTION
STATION 1+920 TO 2+430
N.T.S.



FLOW CONTROL MANHOLE DETAIL
N.T.S.

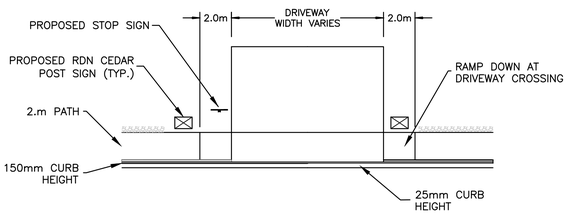


EXFILTRATION TRENCH DETAIL
N.T.S.



CLEANOUT DETAIL
N.T.S.

ISSUED FOR TENDER



TYPICAL ACCESS DRIVEWAY – PLAN VIEW
N.T.S.

Rev. No.	DATE	BY	REVISION DESCRIPTION	ENG
00	01/14/19	KA	SUBMITTED TO RDN FOR REVIEW – NOT FOR CONSTRUCTION	NBT
01	01/25/19	KA	RDN COMMENTS ADDRESSED – NOT FOR CONSTRUCTION	NBT
02	08/08/19	KA	BC MOTI COMMENTS ADDRESSED – NOT FOR CONSTRUCTION	NBT
03	09/19/19	HL	RDN COMMENTS ADDRESSED – NOT FOR CONSTRUCTION	NBT
04	06/05/20	bh	ISSUED FOR APPROVAL – NOT FOR CONSTRUCTION	NBT
05	06/29/20	bh	ISSUED FOR TENDER – NOT FOR CONSTRUCTION	NBT

LEGEND

PROP.	EXIST.	PROP.	EXIST.
WATERMAIN		HYDRANT	
STORM SEWER		ABOVE GROUND FLUSHOUT	
SANITARY SEWER		BELOW GROUND FLUSHOUT	
GAS MAIN		CATCHBASIN	
ELECTRICAL DUCT		DITCH INLET CB	
INLET/OUTLET HEADWALL		MANHOLE	
DITCH INLET/OUTLET		CLEANOUT	
SWALE		HYDRO POLE	
EDGE OF PAVEMENT		CAP	
VALVE BOX		STREETLIGHT	
LIMIT OF CONSTRUCTION		FENCE	

SITE LEGAL DESCRIPTION
ROAD RIGHT OF WAY ON NORTH ROAD FROM SOUTH ROAD INTERSECTION TO TIN CAN ALLEY ON GABRIOLA ISLAND

BENCHMARK DESCRIPTION
ELEVATION DATUM IS GEODETIC AND IS DERIVED FROM GNSS MEASUREMENTS MADE TO GEODETIC CONTROL MONUMENT 946707 LOCATED AT THE END OF BERRY POINT ROAD ON GABRIOLA ISLAND. MONUMENT ELEVATION = 3.344m

ENGINEER'S SEAL

HORIZONTAL SCALE: N/A
VERTICAL SCALE: N/A

DESIGN: NBT
DRAWN: KA
CHECKED: NBT
PLOT DATE: 06–29–20
PRINT DATE:

CLIENT NAME: REGIONAL DISTRICT OF NANAIMO

PROJECT NAME: VILLAGE WAY

DRAWING TITLE: TYPICAL DETAILS

NEWCASTLE ENGINEERING LTD.
4–3179 BARONS ROAD
NANAIMO, B.C. V9T 5W5
PHONE (250) 756–9553

PROJECT No.: 0110–017
DRAWING No.: 10
REVISION No.: 05
RDN PLAN FILE No.:

6.29.2020 P:\AJ\7004\DWG\0100\0110–017 NORTH ROAD, GABRIOLA ISLAND\0110–017 BSA REV07