

**DEPARTMENT OF TRANSPORTATION, INFRASTRUCTURE AND ENERGY
Province of Prince Edward Island**

**TENDER FORM AND AGREEMENT
Revision 0**

THIS AGREEMENT made by and between, herein called the Contractor, the Party of the First Part and The Government of Prince Edward Island as represented by the Honourable Paula J. Biggar, herein called the Minister, the Party of the Second Part.

WITNESS, AS FOLLOWS:

1. Definitions

The definition of terms used in this Tender Form and Agreement shall conform in all respects to the definition of terms contained in the document entitled "General Provisions and Contract Specifications for Highway Construction," published by the Department of Transportation, Infrastructure and Energy of the Province of Prince Edward Island as amended on the date of closing of Tenders pursuant to this Agreement.

2. General Covenant

The Contractor hereby covenants and agrees with the Minister as herein provided in connection with the following work, namely:

Route 12 & 131 – Grand River Roundabout 2019

District 23

Section 1205, Station 600-1100

Section 13102, Station 0-400

Section 40317, Station 0-200

For a distance of 1.1 km

This project commences approximately 340 metres east of the intersection of Route 12 and MacDougall Rd. and proceeds east for a distance of 600 metres. The project also includes sections on Old Grand River Rd. to be reconstructed. The total distance is approximately 1100 metres.

This work includes: Cold planing existing asphalt, earth excavation; installing storm sewer and asphalt drainage swales, installing concrete (curb and gutter, medians and aprons, etc.), placing granular A ; placing asphalt base A; placing asphalt seal B, shouldering; landscaping and all other work necessary to complete the Contract.

TENDER CLOSES:

2:00 p.m., Tuesday, April 9, 2019

11 Kent Street, 3rd Floor Jones Building, Charlottetown, PE

3. No Implied Contract

It is hereby understood and agreed between the parties hereto that no implied Contract of any kind whatsoever, by, or on behalf, of the Minister shall arise or be implied from anything contained in this Contract, or from any position or situation of the parties at any time, and that this Contract made by the Minister is, and shall be, the only Contract upon which any rights against the Minister are to be founded.

4. How Party of the First Part is Read

Whenever this Contract is entered into by more than one party or parties of the first part, the word "Contractor" shall be read "Contractors," and pronouns in the Contract referring to the Contractors shall be read as plural and whenever a corporation is the Party of the First Part, the said pronouns shall be read accordingly.

5. Consideration of Clauses as Covenants

Wherever it is stipulated that anything shall be done or performed by either of the Parties hereto, it shall have the same effect and be constructed as if such Party had entered into a covenant with the other Party to do or perform the same, and as if such covenant had been expressly made on the part of the Contractor, not only on the Contractor's own behalf, but also on the behalf of the Contractor's legal representative, successors or assigns; and as if any such covenant on the part of the Minister has been made on behalf of the Minister, and the Minister's successors in office.

6. Contractors Submission Respecting the Agreement

The Contractor shall, as part of the Contractor's submission respecting this Contract, complete the attached Schedule B, Identification of Principles; Schedule C, Schedule of Tendered Unit Prices; Schedule D, Schedule of Equipment to be used on the work; and Schedule E, Schedule of Sub-Contractors.

The Contract including all appended schedules shall be completed in complete conformity with the instructions to bidders contained in the document entitled "General Provisions and Contract Specification for Highway Construction".

In presenting the Contractor's submission for consideration by the Minister, the Contractor understands that until, and unless, the Contract is endorsed by the Minister, no Contract between the parties shall exist and the Minister shall not be bound to endorse any Contract.

7. Performance by Contractor

The Contractor, at the Contractor's own expense, shall, except as herein otherwise specifically provided, furnish and provide all and every kind of labour and superintendence, services, tools, implements, machinery, plant materials, articles and whatsoever is necessary for the due execution of the work. The Contractor shall fully construct and erect the work in the most thorough, professional and substantial manner, in every respect to the satisfaction and approval of the Engineer. The Contractor shall complete the work within the time specified herein and deliver it to the Minister in the manner and upon the terms and conditions of the Contract.

8. Bid and Performance Security

The Contractor hereby and herewith deposits with and delivers to the Minister, as security of the due fulfillment of the Contract, one of the following, which shall remain in effect for a minimum of 30 days after tender closing:

- a) a certified cheque in the amount stipulated in Schedule A - Schedule of Special Provisions

OR

- b) a bank draft in the amount stipulated in Schedule A - Schedule of Special Provisions

OR

- c) a bid format irrevocable standby letter of credit on a government approved form in the amount stipulated in Schedule A - Schedule of Special Provisions

OR

- d) a bid bond in the amount stipulated in Schedule A - Schedule of Special Provisions excluding HST. The bond shall be from a surety company authorized to carry on business in Canada guaranteeing to supply a performance bond equal to 50% of the Contract value, excluding HST and a labour and material bond equal to 25% of the Contract value

Performance security must be filed with the Department before work on the project commences. This security shall be held and retained by the Minister for the due and faithful performance, observance and fulfilment by the Contractor of all the covenants, provisos, agreements, conditions and reservations in this Contract contained on the part of the Contractors to be observed, performed and complied with shall be in the form of:

- e) a certified cheque in the minimum amount of ten percent (10%) of the Contract value, excluding HST, which shall be retained until the warranty period (one (1) year after substantial completion) has elapsed.

OR

- f) a bank draft in the minimum amount of ten percent (10%) of the Contract value, excluding HST, which shall be retained until the warranty period (one (1) year substantial completion) has elapsed.

OR

- g) a performance format irrevocable standby letter of credit on a government approved form in the minimum amount of ten percent (10%) of the Contract value, excluding HST, which shall be retained until the warranty period (one (1) year after substantial completion) has elapsed.

OR

8. Bid and Performance Security (continued)

- h) a performance bond equal to 50% of the Contract value, excluding HST and a labour and materials bond equal to 25% of the Contract value, excluding HST both of which shall be retained until the warranty period (one (1) year after substantial completion) has elapsed.

All performance security which has an expiry date which precedes the end of warranty date must be renewed prior to the time that the security would expire. The bidder will forfeit security to the Minister if the bidder fails to enter into or carry out the Contract when called upon to do so.

It is understood and agreed that the Contractor assumes risk and must bear any loss in respect to the performance security as aforesaid, occasioned by the failure or insolvency of the banks on which any cheque was drawn or in which any deposit was made in connection with the security aforesaid.

If at any time hereafter the said Contractor should make default under the said Contract, or if the Minister acting under the powers reserved in the said Contract shall determine that the said works, or any portion thereof remaining to be done, should be taken out of the hands of the Contractor and be completed in any manner or way whatsoever than by the Contractor, or if the Contractor refuses or neglects to pay for work done or materials supplied by any person in connection with the said work, the Minister may, in either case dispose of said security for the carrying out of the construction and completion of the work of the Contract or for paying any salaries or wages for work done, or any accounts for materials supplied for the said works that may be left unpaid by the said Contractor.

In the event of any breach, default or non-performance being made or suffered by the Contractor in or in respect of any of the terms and conditions, covenants, provisions, agreements, or restrictions herein contained, which on the part of the said Contractor should be observed, performed or complied with, the said security so delivered to or deposited with the Minister or by the Minister received in respect thereof, shall by the Contractor, be forfeited absolutely to the Minister.

Upon the due and faithful performance, observance and fulfilment by the Contractor of all the terms, provisions, covenants, agreements, conditions, reservations, hereinbefore contained, on the part of the Contractor to be observed, performed and complied with, the Minister shall surrender the performance security.

9. Minister Covenants to Pay

In consideration of the faithful performance by the Contractor of all and singular covenants, agreements and provisions of the Contract, the Minister hereby covenants and agrees with the Contractor that, on the full completion by the Contractor of all the work as specified in the Contract, within the time specified and limited for the final completion thereof, and to the entire satisfaction of the Engineer to be evidenced by the certificate of the Engineer in writing, the said Minister will well and truly pay, or cause to be paid, to the said Contractor the amount of the Contract price, representing the actual quantities in the several items in the Schedule of Prices, identified as Schedule C to this Contract, at the unit prices or lump sum prices quoted by the Contractor. This amount paid to the Contractor as above, shall include all and every kind of work, labour, superintendence, services, tools, implements, machinery, plant materials, articles and things whatsoever necessary for the full execution and completion of the work to the entire satisfaction of the Engineer.

10. Final Payment

It is hereby agreed by the parties hereto that the payment of the final amount due under the Contract, and the adjustment and payment of any bills that may be rendered for work done, in accordance with any alteration in or addition to the same, shall release the Minister from any and all claims or liability on account of work performed under the said Contract or any alteration in or addition to the same.

11. No Waiver

It is hereby agreed that no condoning, excusing, or overlooking by the Minister, or any person acting on the Minister's behalf on previous occasions of breaches or defaults similar to that for which any action is taken or power is exercised, or forfeiture is claimed or enforced against the Contractor, shall be taken as a waiver of any provisions of the Contract, or as defeating, affecting or prejudicing in any way the right of the Minister under the Contract.

12. Components of the Contract

Any and all plans or drawings prepared by the Department, the document titled "General Provisions and Contract Specifications for Highway Construction", the advertisement, the Tender Form and Agreement together with Schedule A, Schedule of Special Provisions; Schedule B, Identification of Principals; Schedule C, Schedule of Tendered Unit Prices; Schedule D, Schedule of Equipment; and Schedule E, Schedule of Sub-Contractors, as well as any addenda which may be issued by the Department pursuant to this Contract shall hereby be a part of this Contract as fully and to the same effect as if the same had been set forth at length in the body of the Contract.

13. Completion of Work

The Contractor agrees to complete the work on, or before **September 27, 2019**.

14. FOIPP Clause

1. By submitting your bid, you agree to disclosure of the information supplied, subject to the provisions of the Freedom of Information and Protection of Privacy Act (FOIPP).
2. Anything submitted in your bid that you consider to be "confidential information" because of its proprietary nature should be marked as "confidential" and will be subject to appropriate consideration under the Freedom of Information and Protection of Privacy Act.
3. During the delivery and installation of goods and/or services, you may have access to confidential or personal information. Should this occur, you must ensure that such information is not released to any third party or unauthorized individual.
4. Any information provided on this Contract may be subject to release under the Freedom of Information and Protection of Privacy Act. You will be consulted prior to the release of any information.

IN WITNESS WHEREOF the parties hereto have hereby caused these presents to be signed and sealed on the dates stated.

SIGNED, SEALED AND DELIVERED
by the Contractor on the [] day
of [], 20[].

CONTRACTOR

.....
(Authorized Signing Officer)

In the presence of:

.....
(Witness Signature)

SIGNED, SEALED AND DELIVERED
by the Minister on the [] day
of [], 20[].

MINISTER

.....

In the presence of:

.....
(Witness Signature)

**SCHEDULE A
SCHEDULE OF SPECIAL PROVISIONS**

1) INSTRUCTIONS TO BIDDERS

The stipulated bid security amount shall be \$70,000.00. Upon award, the successful Contractor shall replace the Bid Security with the Performance Security.

A mandatory preconstruction meeting between the successful Contractor and the Department shall be held at the Jones Building in advance of construction startup.

2) SECTION 102.13 - SCHEDULING OF THE WORK

The number of working days stipulated for this Contract is 35. These working days shall be consecutive. Liquidated damages will be assessed beyond the approved schedule

Other utility crews and/or other contractors (Aliant, Maritime Electric, etc.) will be carrying out work on site at various stages of the project. The Contractor shall coordinate their work schedules with all these crews as no additional compensation will be provided for any delays. Should any utility poles require to be braced during construction, costs associated with this work shall be absorbed by the Contractor.

3) SECTION 305 – ROADWAY CULVERT PLACEMENT

(Item 30513 – Roadway Culvert 600mm PCP)

Double Walled Polyethylene (DWP) pipe meeting the requirements in Section 301 may be used in place of PCP. No additional compensation shall be provided for the use of one material over the other.

4) SECTION 306 – DRIVEWAY CULVERT PLACEMENT

(Item 30607 – Driveway Culvert 450mm PCP)

Double Walled Polyethylene (DWP) pipe meeting the requirements in Section 301 may be used in place of PCP. No additional compensation shall be provided for the use of one material over the other.

5) SECTION 501 - ASPHALT CEMENT

(Item 50101 - Asphalt Cement)

Contractors shall note that for bidding purposes an artificial rack price of \$900 per tonne (without anti-strip) shall replace the Government's posted Monthly Average Asphalt Binder Rack Price table for this contract. The artificial rack price of \$900 per tonne (without anti-strip) shall be used as the price index when calculating the liquid asphalt cement price adjustment.

6) SECTION 501 - ASPHALT CEMENT

(Item 50109 - Surcharge for Polymer Liquid Asphalt)

Performance Graded Asphalt Cement (PGAC) on this contract shall comply with AASHTO M332 for the surface mix and shall be graded as PG 58-28H. Additionally the PGAC shall meet the elastic recovery requirements detailed in Appendix X1 of AASHTO M332. Note, when ordering the PGAC to include reference to the specification, grade with designation and the appendix (e.g., M332, PG 58-28H, Appendix X1).

The unit bid price for the above listed item shall be full compensation for supply, haul, storage, and use of this product in lieu of PG 58-28. No additional compensation shall be provided.

7) **SECTION 603.15 - HOT MIX ASPHALTIC CONCRETE - SMOOTHNESS**

Section 603.15 shall not apply to this Contract

8) **SECTION 603 - HOT MIX ASPHALTIC CONCRETE**

(Item 60350 - Asphalt Seal: B)

In an effort to eliminate seams, there shall be no visible longitudinal joints on the asphalt seal, with exception to the centerline of the roadway. In wider areas where this cannot be achieved with one paver, multiple pavers will be required. Layout and construction method must be approved by the Project Engineer.

9) **SECTION 712 - COLD PLANE, STOCKPILE AND REPLACE RAP AS SHOULDER MATERIAL
(Item 71201 - RAP: Shoulder Material)**

This work shall consist of cold planing the existing asphalt full depth (average 200mm). This material shall be used on site for driveways, shouldering or as directed by the project manager. The cold planing of asphaltic concrete, shall be paid for at the unit bid price per square metre and this shall be full compensation for cold planing, placement on site, compaction, transporting, stockpiling, equipment, tools, labour, and incidentals necessary to complete the work.

Once placement is complete, the excess material (RAP) will be hauled to a location determined by the Department and stockpiled. The Contractor shall be required to load, transport and stockpile the excess RAP from the temporary stockpile onto the trucks and deliver to the designated site with no additional compensation being provided, with the exception of the haul. The transportation of the RAP to the temporary stockpile and from the temporary stockpile to the site (shoulders) shall be a closed haul.

The transportation of excess material from the temporary stockpile to any stockpile sites determined by the Department shall be an open haul, and open haul rates shall apply. Compensation shall be provided for the haul at applicable open haul rates.

10) **SECTION 716 - COLD PLANE, STOCKPILE
(Item 71601 - Cold Plane and Stockpile)**

This work shall consist of cold planing the existing asphalt full depth (average 200mm) and shall be hauled to a location determined by the Department and stockpiled. The cold planing of asphaltic concrete, shall be paid for at the unit bid price per square metre and this shall be full compensation for cold planing, loading, transporting, stockpiling, equipment, tools, labour, and incidentals necessary to complete the work.

Open haul rates shall apply to this item. Compensation shall be provided for the haul at applicable open haul rates.

11) **SECTION 1102 - CURB AND GUTTER
(Item 110111- Barrier Curb)**

This curb shall be placed around the perimeter of the concrete island located in the centre of the roundabout (See Detail 1).

**12) SECTION 1102 - CURB AND GUTTER
(Item 110203 – Semi Mountable Curb)**

This curb and gutter shall be placed around the medians and all corner aprons between drainage swales. Curb placed for the medians will match the cross slope of asphalt (See Detail 3). This item shall also include outside shoulder curb that will have the traditional gutter (See Detail 4).

**13) SECTION 1102 - CURB AND GUTTER
(Item 110204 - Mountable Curb)**

This curb and gutter shall be placed around the outside perimeter of the concrete apron (See Detail 2).

**14) SECTION 1103 - CONCRETE SIDEWALK AND FLATWORK
(Item 110125 - Concrete Median)**

This work is to be completed according to section 1103 Concrete Sidewalk and Flatwork. The thickness of the concrete shall be 150 mm. Isolation joints shall be installed between all concrete curb and median as well as at every 7.5 metre intervals. Install the 15M rebar @ 300 mm c/c. All rebar shall be cut fifty percent through each bar at all joint locations prior to the placement of the concrete. Isolation joint filler (12mm fibre board) shall be installed at all isolation joints. Finished surfaces shall have a course textured broom finish. The strokes shall be perpendicular to the edges of the concrete splitter island and the back of curb. Apply curing compound to finished surfaces at a rate recommended by the manufacturer. Saw cut and provide joint sealing compound, Sikaflex 2c SL or approved alternative, as recommended by the manufacturer. All saw cut joints in adjacent slabs and curbs shall coincide. The concrete shall be Type GUb 35MPa Exposure Class: C-1. The concrete medians/splitter islands shall require colouring to be added to the mix. The colour shall be Salmon RG- 2832R (1 bag) as provided by Interstar (or equivalent). The unit bid price for the above listed item shall be full compensation for the supply and placement of the concrete, including colouring and sealant as required; the supply and placement of the rebar, including saw cutting; curing, joint sealant, isolation joint filler, base preparation and all other work necessary to complete the work. No additional compensation shall be provided.

**15) SECTION 1103 - CONCRETE SIDEWALK AND FLATWORK
(Item 110122 - Concrete Apron)**

This work is to be completed according to section 1103 Concrete Sidewalk and Flatwork. The thickness of the concrete shall be 150 mm. Isolation joints shall be installed between all concrete curb and apron median. Install the 15M rebar @ 300 mm c/c. All rebar shall be cut fifty percent through each bar at all joint locations prior to the placement of the concrete. Isolation joint filler (12mm fibre board) shall be installed between concrete curb and concrete apron. Finished surfaces shall have a course textured broom finish. The strokes shall be perpendicular to the edges of the concrete apron and the back of curb. Apply curing compound to finished surfaces at a rate recommended by the manufacturer. Saw cut and provide joint sealing compound, Sikaflex 2c SL or approved alternative, as recommended by the manufacturer. All saw cut joints in adjacent slabs and curbs shall coincide. The concrete shall be Type GUb 35MPa Exposure Class: C-1. The colour shall be Salmon RG- 2832R (1 bag) as provided by Interstar (or equivalent). The unit bid price for the above listed item shall be full compensation for the supply and placement of the concrete, including colouring and sealant as required; the supply and placement of the rebar, including saw cutting; curing, joint sealant, isolation joint filler, base preparation and all other work necessary to complete the work. No additional compensation shall be provided.

16) SECTION 907 - VEHICLE CONFIGURATIONS AND RESTRICTIONS

The SADT on this project shall be understood to be 1,505.

17) SECTION 908 - TRAFFIC CONTROL PLAN

(Item 90802 - Traffic Control Plan)

Work shall not proceed until all conditions of this section are met. Failure to meet these conditions shall result in a stop work order as per Section 106.07 Suspension of Work.

**SCHEDULE B
IDENTIFICATION OF PRINCIPALS**

Name of Contractor:

Mailing Address:

Telephone:

Fax:

Principal's Name:

Title:

Mailing Address:

If Contractor is a corporation in which province of Canada is the corporation registered:

Estimate: 4223
 Length:

Schedule C
 schedule of item for tender

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 19 Mar 2019

Item Description and Price			Estimated Quantity	Contractor Total Price
EXCAV:EARTH SURPLUS/SUITABLE				
Section: 203	Item: 20306			
-----			PER M3	
-----			\$ -----	PER M3
			100	500.00 \$
EXCAVATION: EARTH WASTE				
Section: 203	Item: 20307			
-----			PER M3	
-----			\$ -----	PER M3
			100	7,500.00 \$
TOPSOIL:REMOVE & REINSTATE				
Section: 204	Item: 20401			
-----			PER M3	
-----			\$ -----	PER M3
			100	8,700.00 \$
BORROW: COMMON				
Section: 206	Item: 20601			
-----			PER Tonnes	
-----			\$ -----	PER Tonnes
			100	750.00 \$
BORROW: SELECT				
Section: 206	Item: 20602	Major Item		
-----			PER Tonnes	
-----			\$ -----	PER Tonnes
			100	8,500.00 \$
GRANULAR BASE: A				
Section: 207	Item: 20701	Major Item		
-----			PER Tonnes	
-----			\$ -----	PER Tonnes
			100	4,400.00 \$

Total Carried Forward \$ _____
 From Previous Page
 Total Carried Forward \$ _____

Project Number: 5189

RTE 12 & 131 GRAND RIVER

30583

Estimate: 4223

Length:

Department of Transportation Infrastructure & Energy

Province of Prince Edward Island

Schedule C

schedule of item for tender

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19 Mar 2019

Item Description and Price		Estimated Quantity	Contractor Total Price
FINE GRADING			
Section: 208	Item: 20801		
-----		PER Square Metre	
\$ -----		PER M2	11,000.00 \$
		100	_____
RANDOM RIP-RAP: R5			
Section: 213	Item: 21301		
-----		PER Tonnes	
\$ -----		PER Tonnes	20.00 \$
		100	_____
BEDDING MATERIAL: SAND			
Section: 220	Item: 22004		
-----		PER Tonnes	
\$ -----		PER Tonnes	200.00 \$
		100	_____
ROADWAY CULVERT: 600MM PCP			
Section: 305	Item: 30513		
-----		PER Metres	
\$ -----		PER M	75.00 \$
		100	_____
DRIVEWAY CULVERT 450MM PCP			
Section: 306	Item: 30606		
-----		PER Metres	
\$ -----		PER M	35.00 \$
		100	_____
CULVERT REMOVAL			
Section: 308	Item: 30801		
-----		PER Metres	
\$ -----		PER M	90.00 \$
		100	_____

Total Carried Forward \$ _____

From Previous Page

Total Carried Forward \$ _____

Estimate: 4223
 Length:

Schedule C
 schedule of item for tender

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 19 Mar 2019

Item Description and Price			Estimated Quantity	Contractor Total Price
CULVERT END TREATMENT				
Section: 312	Item: 31201			
-----			PER unit	
-----			PER unit	10.00 \$
-----			100	-----
ASPHALT CEMENT				
Section: 501	Item: 50101	Major Item		
-----			PER Tonnes	
-----			PER Tonnes	95.00 \$
-----			100	-----
SURCHARGE FOR POLYMER LIQUID ASPHALT				
Section: 501	Item: 50109			
-----			PER Tonnes	
-----			PER Tonnes	45.00 \$
-----			100	-----
TACK COAT				
Section: 601	Item: 60101			
-----			PER Square Metre	
-----			PER M2	12,000.00 \$
-----			100	-----
ASPHALT BASE: A				
Section: 603	Item: 60301	Major Item		
-----			PER Tonnes	
-----			PER Tonnes	925.00 \$
-----			100	-----
ASPHALT SEAL: B				
Section: 603	Item: 60350	Major Item		
-----			PER Tonnes	
-----			PER Tonnes	645.00 \$
-----			100	-----
Total Carried Forward \$				-----
From Previous Page				
Total Carried Forward \$				-----

Estimate: 4223
 Length:

Schedule C
 schedule of item for tender

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Item Description and Price		Estimated Quantity	Contractor Total Price
HMA DRIVEWAY MIX			
Section: 610	Item: 61003		
-----		PER Tonnes	
-----		\$ -----	PER Tonnes 70.00 \$ -----
		100	
COLD PLANE CONST. JOINT			
Section: 705	Item: 70501		
-----		PER Square Metre	
-----		\$ -----	PER M2 300.00 \$ -----
		100	
RAP: SHOULDER MATERIAL			
Section: 712	Item: 71201		
-----		PER Square Metre	
-----		\$ -----	PER M2 2,800.00 \$ -----
		100	
COLD PLANE AND STOCKPILE			
Section: 716	Item: 71601		
-----		PER Square Metre	
-----		\$ -----	PER M2 2,800.00 \$ -----
		100	
CHECK DAM: RIP RAP			
Section: 801	Item: 80102		
-----		PER unit	
-----		\$ -----	PER unit 10.00 \$ -----
		100	
WATER FOR DUST			
Section: 802	Item: 80201		
-----		PER kl	
-----		\$ -----	PER kl 100.00 \$ -----
		100	

Total Carried Forward \$ -----
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 Total Carried Forward \$ -----

Department of Transportation Infrastructure & Energy

Province of Prince Edward Island

Schedule C

schedule of item for tender

Item Description and Price		Estimated Quantity	Contractor Total Price
HYDROSEEDING			
Section: 803	Item: 80302		
	PER Square Metre		
	\$	PER M2	16,100.00 \$
		100	
SEDIMENT TRAP			
Section: 808	Item: 80801		
	PER unit		
	\$	PER unit	1.00 \$
		100	
SIGNALLERS			
Section: 901	Item: 90101		
	PER hrs		
Seventeen Dollars and 19 Cents	\$	17.19 PER hrs	2,000.00 \$
		100	34,380.00
PAVEMENT EDGE DELINEATOR			
Section: 904	Item: 90401		
	PER unit		
	\$	PER unit	50.00 \$
		100	
TEMPORARY MARKING			
Section: 905	Item: 90501		
	PER Metres		
	\$	PER M	100.00 \$
		100	
TRAFFIC CONTROL PLAN			
Section: 908	Item: 90802		
	PER hrs		
Twenty-Five Dollars and 00 Cents	\$	25.00 PER hrs	350.00 \$
		100	8,750.00
Total Carried Forward \$			
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Total Carried Forward \$			

Project Number: 5189

RTE 12 & 131 GRAND RIVER

30583

Estimate: 4223

Length:

Department of Transportation Infrastructure & Energy

Province of Prince Edward Island

Schedule C

schedule of item for tender

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19 Mar 2019

Item Description and Price		Estimated Quantity	Contractor Total Price
BARRIER CURB			
Section: 1101	Item: 110111		
-----		PER Metres	
-----		PER M	52.00 \$
-----		100	_____
CONCRETE APRON			
Section: 1102	Item: 110122		
-----		PER Square Metre	
-----		PER M2	170.00 \$
-----		100	_____
CONCRETE MEDIAN			
Section: 1101	Item: 110125		
-----		PER Square Metre	
-----		PER M2	142.00 \$
-----		100	_____
SEMI-MOUNTABLE CURB			
Section: 1102	Item: 110203		
-----		PER Metres	
-----		PER M	300.00 \$
-----		100	_____
MOUNTABLE CURB			
Section: 1102	Item: 110204		
-----		PER Metres	
-----		PER M	73.00 \$
-----		100	_____
STRAW BALES			
Section: 1360	Item: 136032		
-----		PER bale	
-----		PER bale	50.00 \$
-----		100	_____

Total Carried Forward \$ _____

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Total Carried Forward \$ _____

HST \$ _____

Grand Total \$ _____

SCHEDULE D

SCHEDULE OF EQUIPMENT TO BE USED ON THE WORK

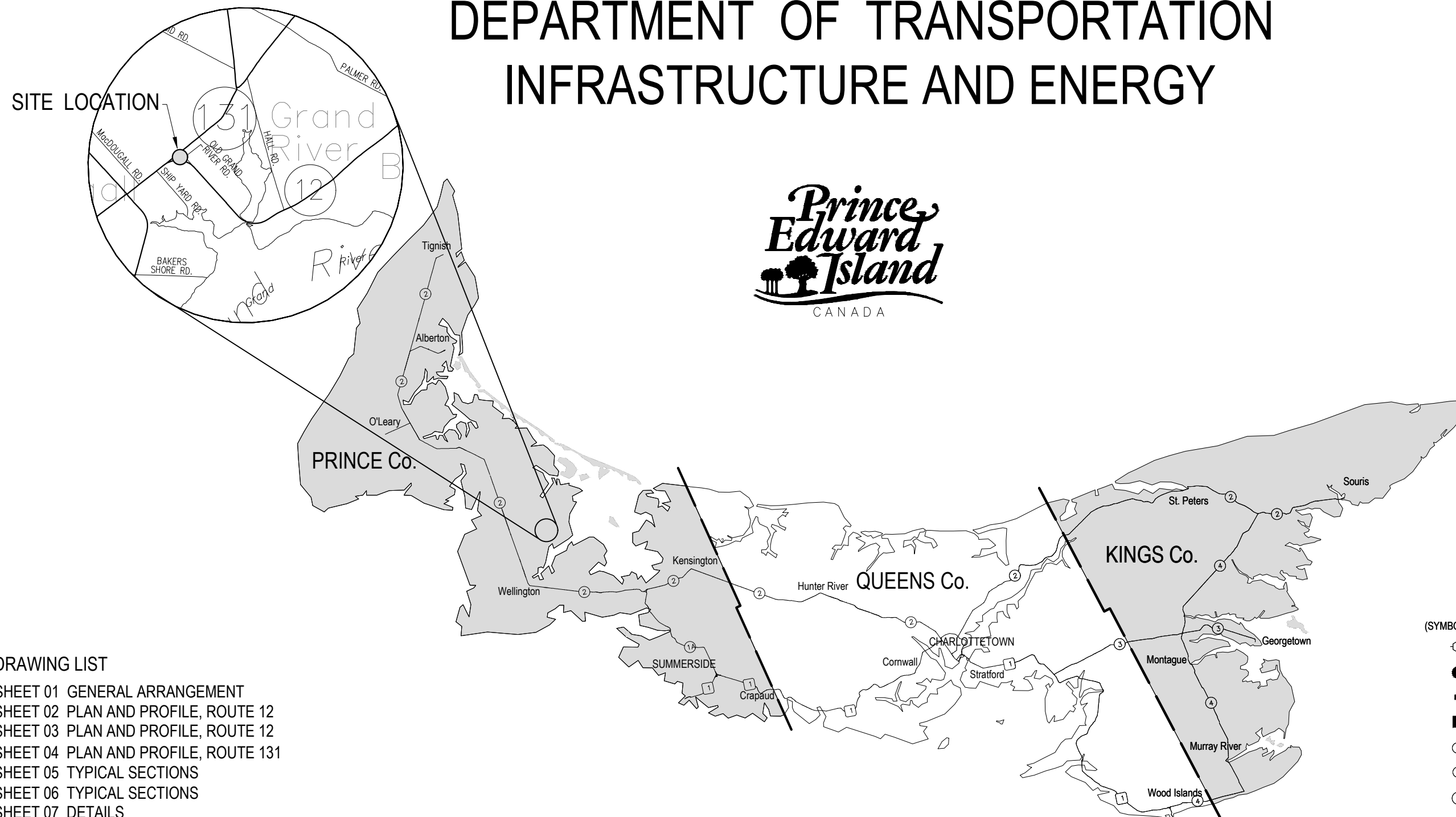
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SCHEDULE E
SCHEDULE OF SUB-CONTRACTORS

PROVINCE OF PRINCE EDWARD ISLAND

DEPARTMENT OF TRANSPORTATION

INFRASTRUCTURE AND ENERGY



DRAWING LIST

- SHEET 01 GENERAL ARRANGEMENT
- SHEET 02 PLAN AND PROFILE, ROUTE 12
- SHEET 03 PLAN AND PROFILE, ROUTE 12
- SHEET 04 PLAN AND PROFILE, ROUTE 131
- SHEET 05 TYPICAL SECTIONS
- SHEET 06 TYPICAL SECTIONS
- SHEET 07 DETAILS
- SHEET 08 ALIGNMENTS AND SUPERELEVATION REPORTS
- SHEET 09 ALIGNMENTS AND SUPERELEVATION REPORTS

ISSUED FOR TENDER -
MARCH 19, 2019

CONTROL SECTION - 01205
DESIGN PROJECT NUMBER - 2018016

ROUTE 12 & 131 - GRAND RIVER ROUNDABOUT

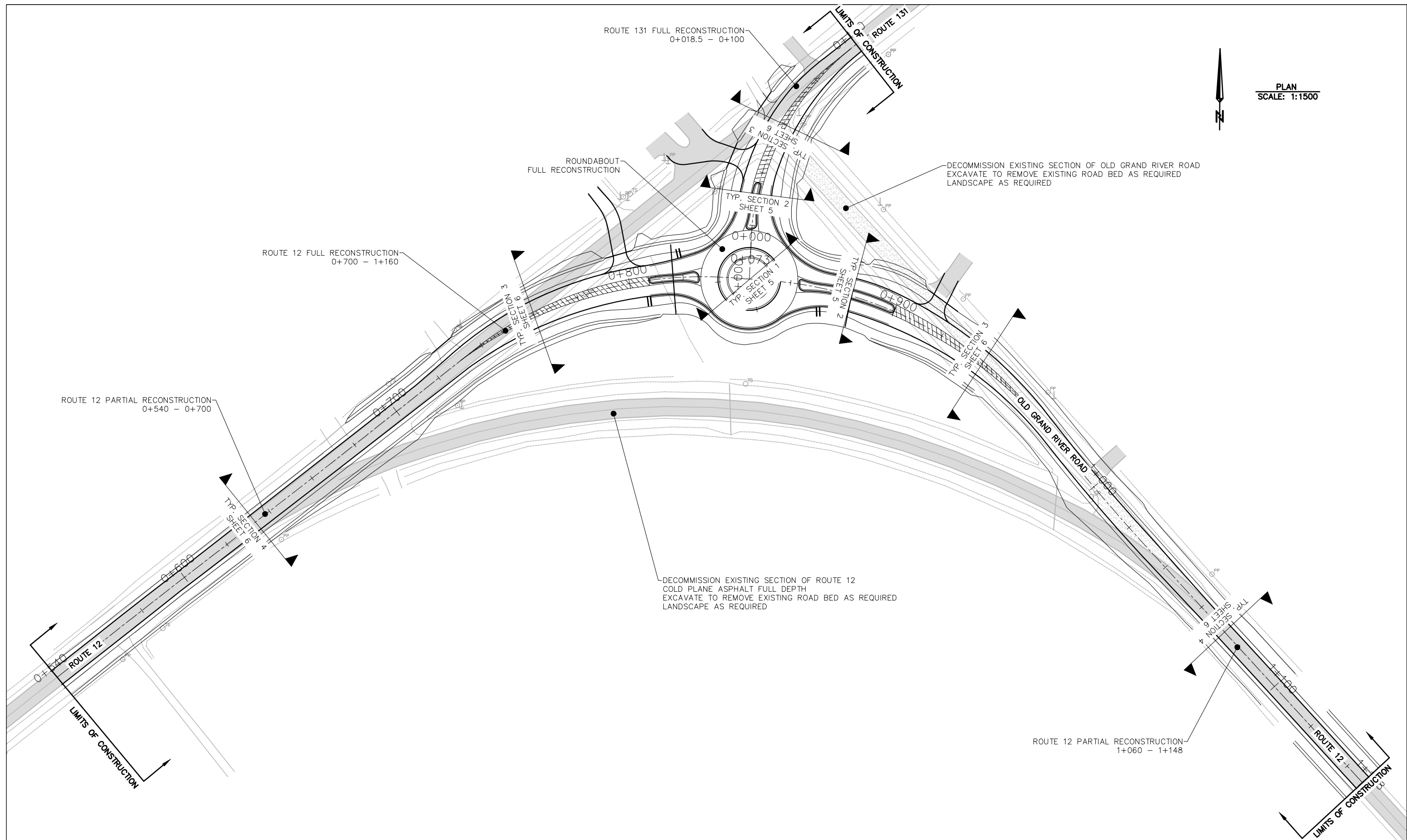
ROUTE 12: STATION 0+540 -1+148

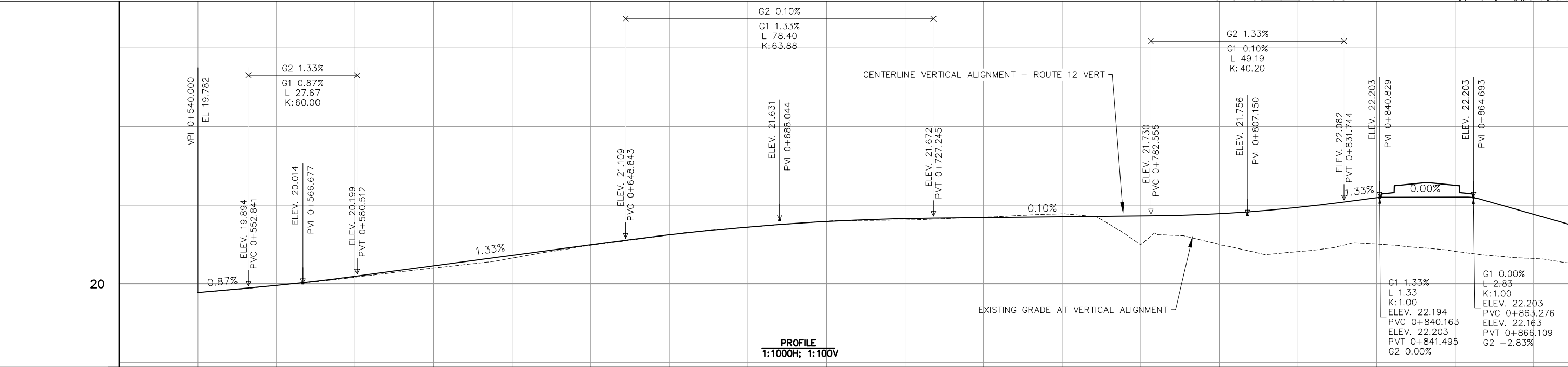
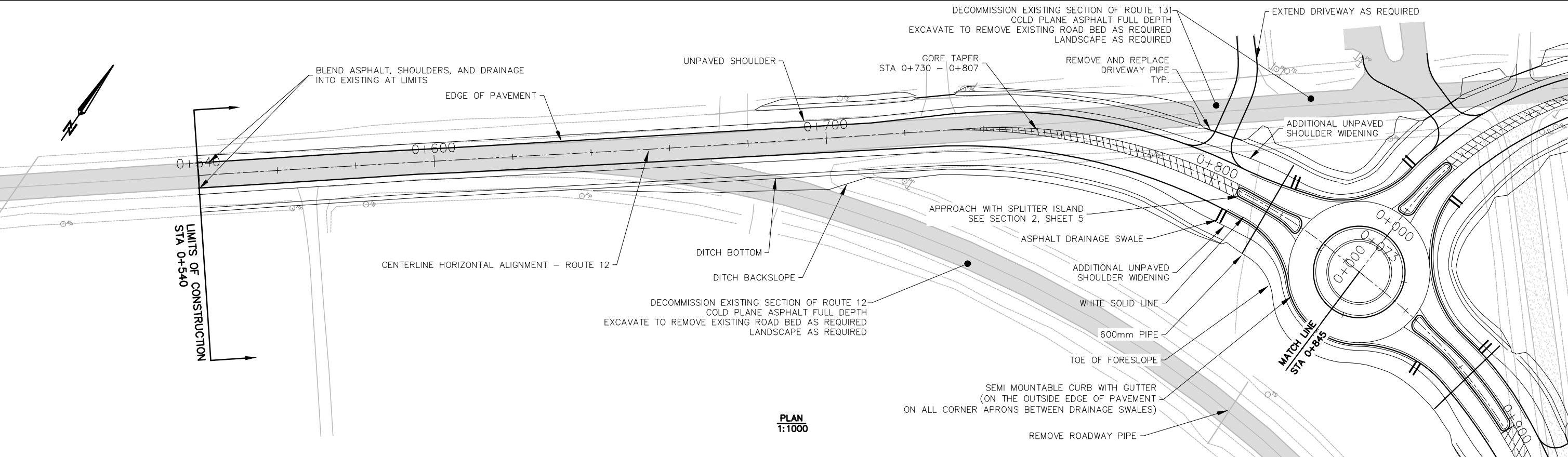
ROUTE 131: STATION 0+000 -0+100

LEGEND :

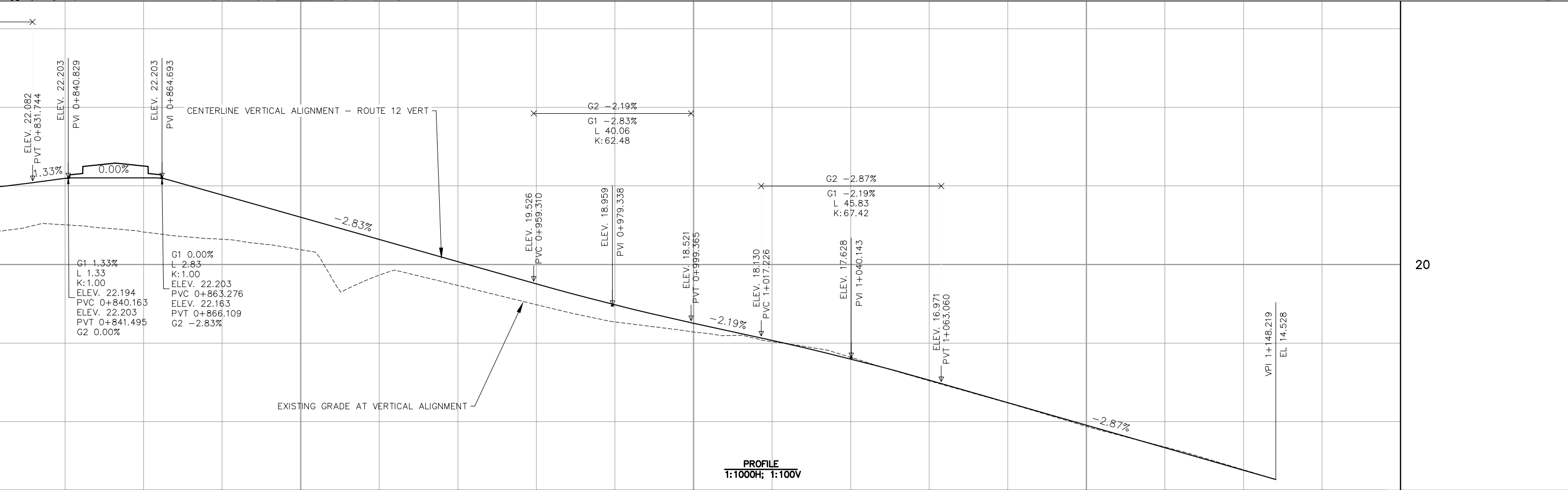
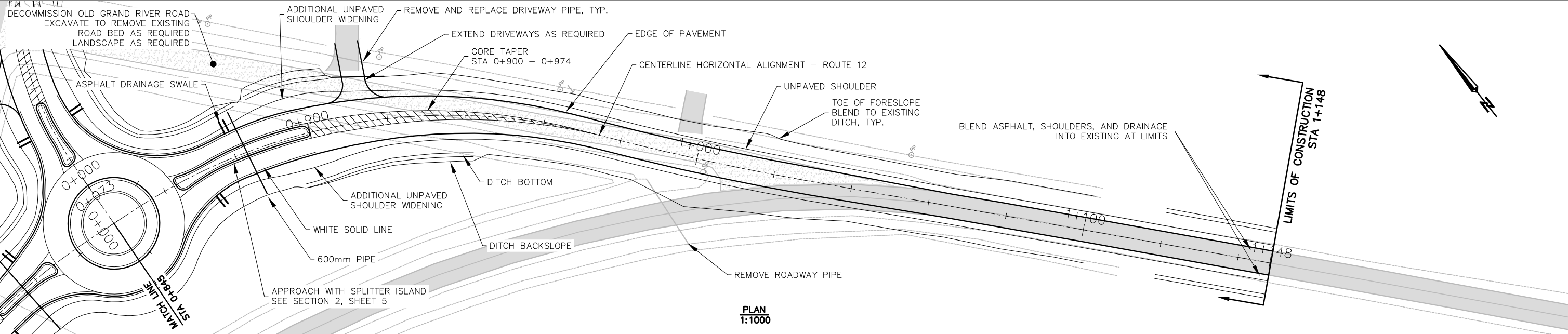
(SYMBOLS MAY OR MAY NOT BE PRESENT)

- HYDRANT
- MANHOLE
- WATER VALVUE
- CATCH BASIN
- WELL CASING
- LIGHT POLE
- POWER POLE
- TELEPHONE POLE
- TELEPHONE STANDARD
- GUY WIRE
- SIGN POST
- SURVEY MARKER
- MONUMENT POINT
- GUARD RAIL
- FENCE LINE

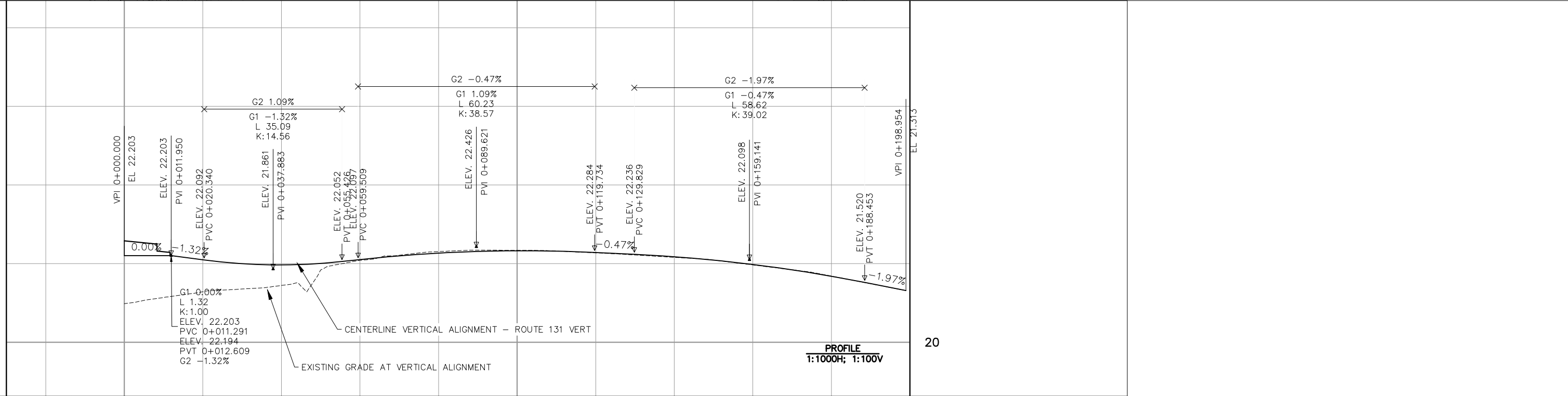
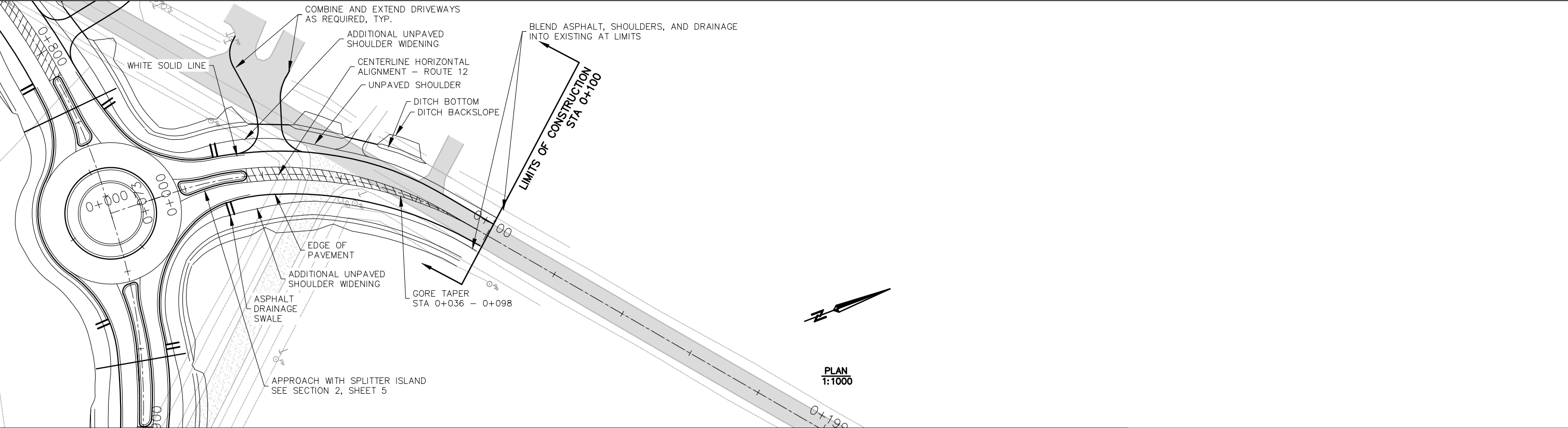




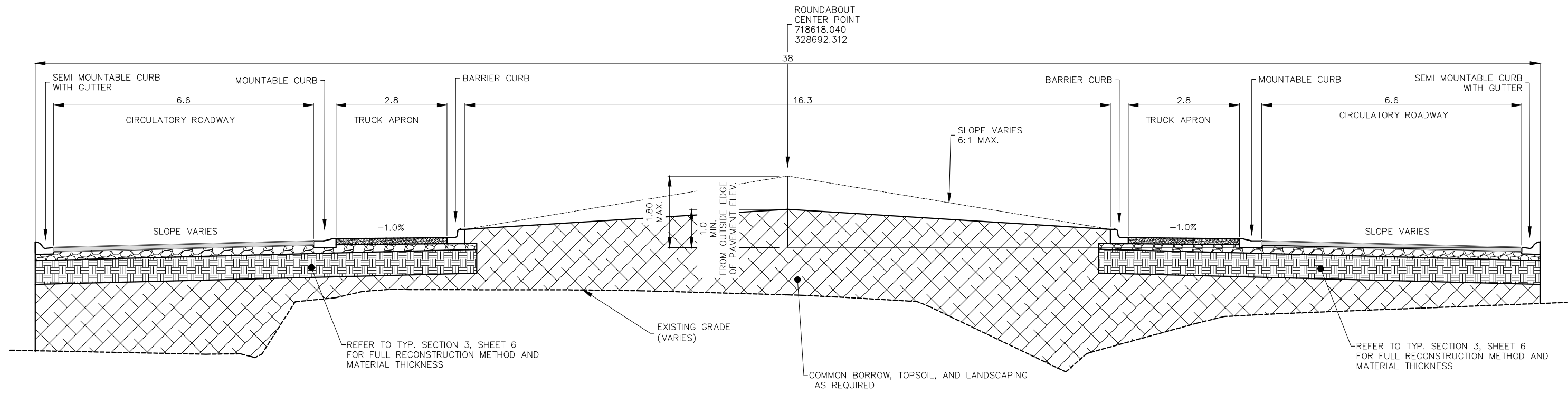
		0+600					0+700					0+800							
Existing		19.782	19.959	20.172	20.403	20.655	20.980	21.246	21.443	21.593	21.623	21.697	21.782	20.995	21.000	20.822	21.010	20.827	20.643
Proposed		19.782	19.960	20.192	20.458	20.725	20.991	21.248	21.448	21.585	21.660	21.685	21.706	21.727	21.786	21.943	22.192	22.203	21.770
Cut Depth		0.000								0.008		0.012	0.076						
Fill Height		0.000	0.001	0.020	0.055	0.069	0.011	0.002	0.005		0.037			0.732	0.786	1.121	1.182	1.377	1.127



0+900																1+000																1+100																Existing Proposed Cut Depth Fill Height	
2	21.010	20.827	20.643	20.378	19.729	19.467	18.977	18.537	18.282	18.037	17.640	17.038	16.476	15.879	15.355	14.776																																	
3	22.192	22.203	21.770	21.204	20.638	20.072	19.506	18.975	18.507	18.069	17.593	17.058	16.485	15.911	15.337	14.764																																	
											0.047					0.017	0.012																																
1	1.182	1.377	1.127	0.827	0.909	0.605	0.530	0.437	0.225	0.032		0.020	0.009	0.032																																			
 DEPT OF TRANSPORTATION, INFRASTRUCTURE, AND ENERGY Tel 902 368 5100 Fax 902 368 5395 http://www.gov.pe.ca/ PO Box 2000 Charlottetown Prince Edward Island Canada C1A 7N8 ALL WORK SHALL BE CONDUCTED IN ACCORDANCE WITH TIE'S STANDARD SPECIFICATIONS AND ENVIRONMENTAL PROTECTION PLAN (EPP). MAINTAIN ENVIRONMENTAL CONTROLS UNTIL VEGETATION HAS ESTABLISHED OR AS INSTRUCTED ON SITE. ALL DRIVEWAY CULVERTS AND SIDE SLOPES SHALL BE MIN. 3H:1V																		SURVEY BY: T.I.E.		SCALE: AS NOTED		No.	REVISIONS			DATE		STATIONING:			JOB: ROUTE 12 & 131 – GRAND RIVER ROUNDABOUT			SHEET No.															
DRAWN BY: R.CRANE		COUNTY: PRINCE		1	ISSUED FOR TENDER (IFT)			MARCH 19, 2019		STA 0+845 –1+148						3		OF																															
APPROVED BY: R.CRANE										CONTROL SECTION:			SHEET NAME:			9																																	
PROJECT No.: 2018016										01205			ROUTE 12 – PLAN AND PROFILE																																				

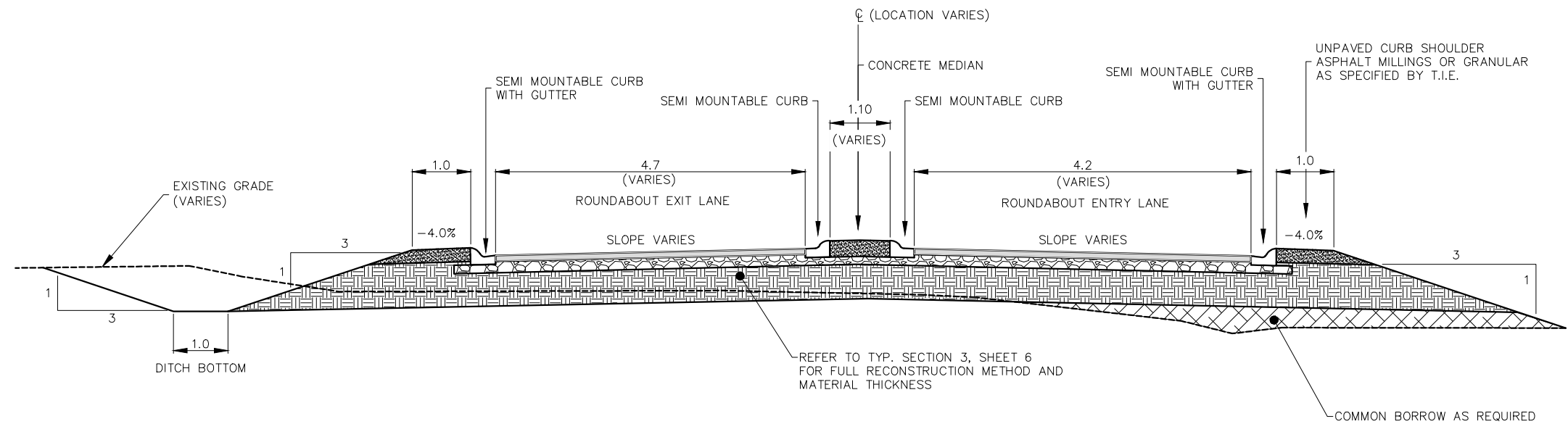


	0+000				0+100				0+200			
Existing	20.981	21.283	21.443	22.082	22.306	22.338	22.273	22.159	21.966	21.682		
Proposed	22.203	22.097	21.966	22.102	22.266	22.326	22.283	22.175	21.978	21.678		
Cut Depth					0.039	0.012				0.004		
Fill Height	1.222	0.814	0.523	0.021			0.010	0.016	0.012			

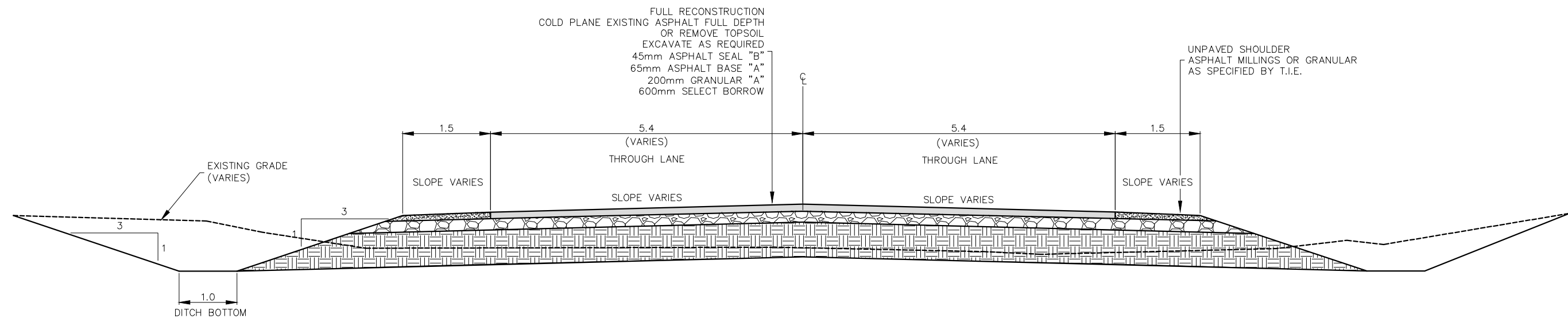


TYPICAL SECTION 1: ROUNDBOUT CROSS SECTION
SCALE: N.T.S.

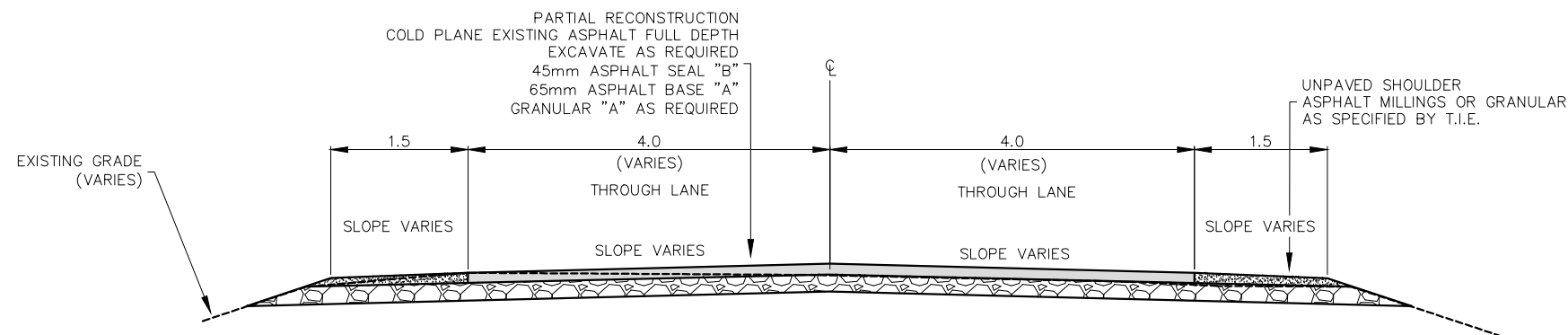
NOTE:
- REFER TO SHEET 7 FOR ALL CURB, SPLITTER ISLAND, AND TRUCK APRON DETAILS.
- ALL DIMENSIONS ARE IN METERS. DIMENSIONS AND SLOPES ARE TYPICAL UNLESS LABELED "VARIES"



TYPICAL SECTION 2: APPROACH WITH SPLITTER ISLAND
SCALE: N.T.S.

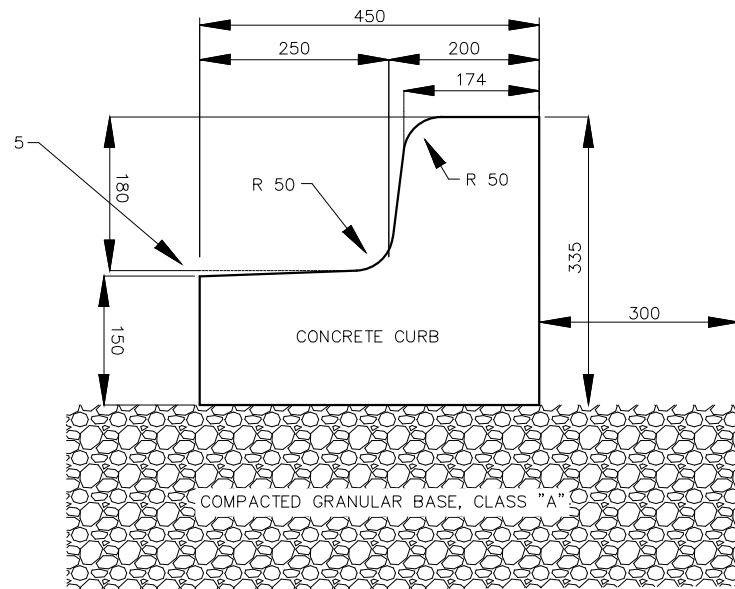


TYPICAL SECTION 3: FULL RECONSTRUCTION
SCALE: 1:100

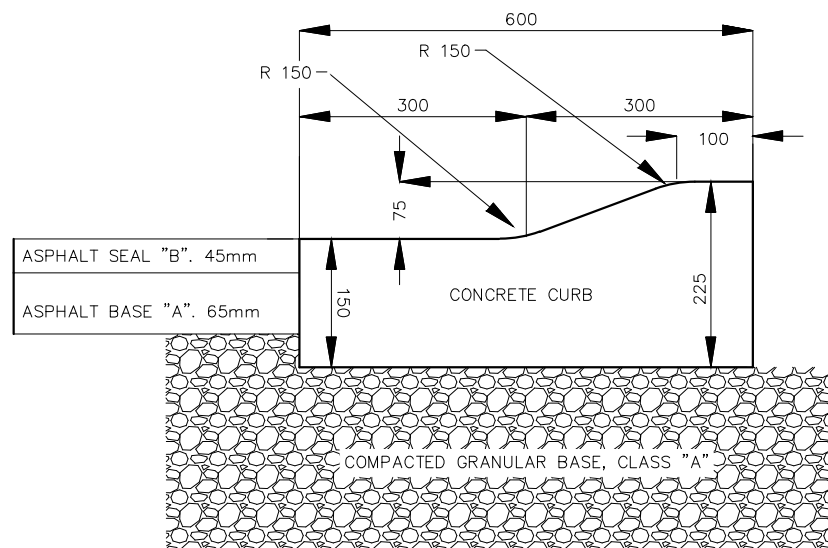


TYPICAL SECTION 4: PARTIAL RECONSTRUCTION
SCALE: 1:100

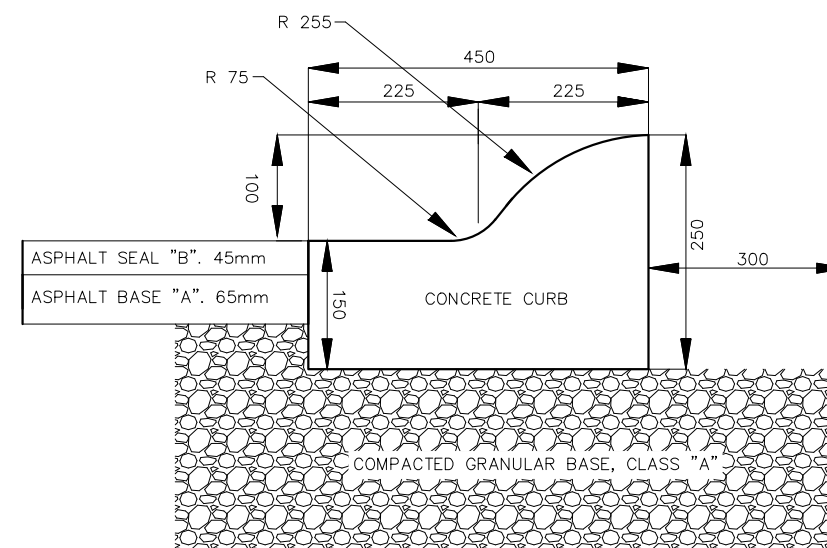
NOTE:
- ALL DIMENSIONS ARE IN METERS UNLESS NOTED AS MILLIMETERS.
DIMENSIONS AND SLOPES ARE TYPICAL UNLESS LABELED "VARIES"



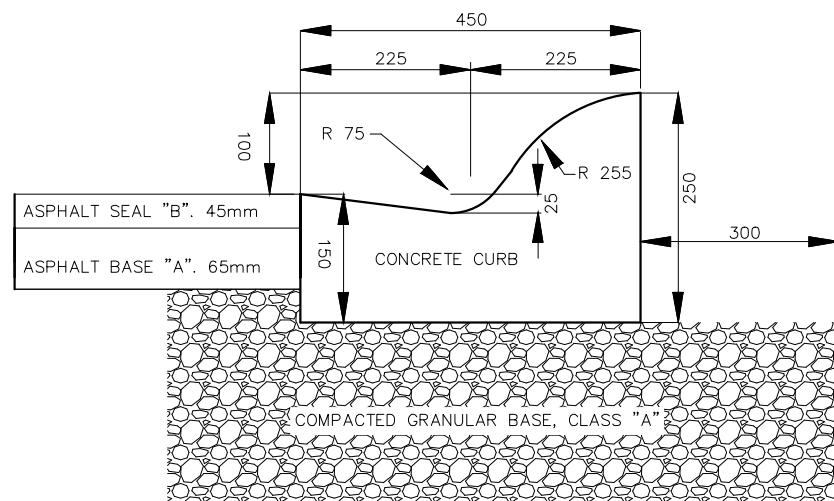
1 **BARRIER CONCRETE CURB**
SCALE: N.T.S.



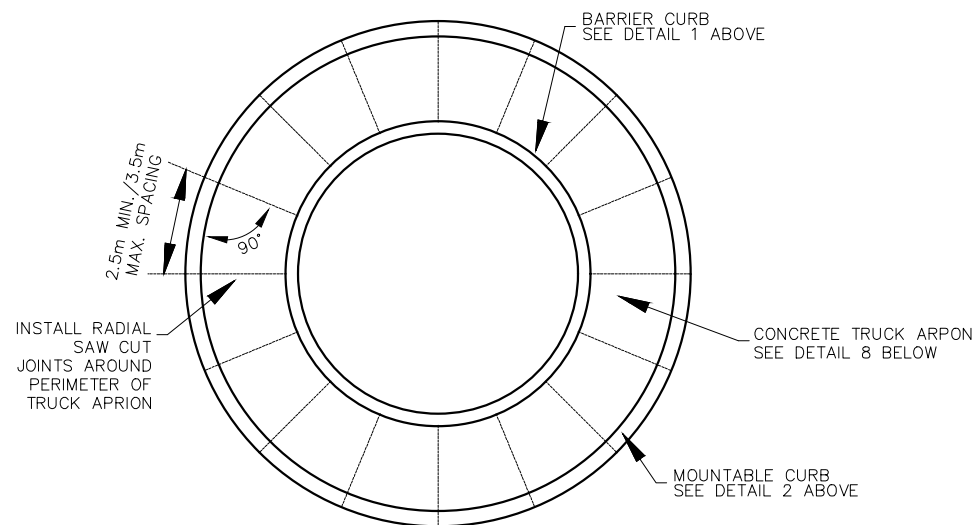
2 **MOUNTABLE CONCRETE CURB**
SCALE: N.T.S.



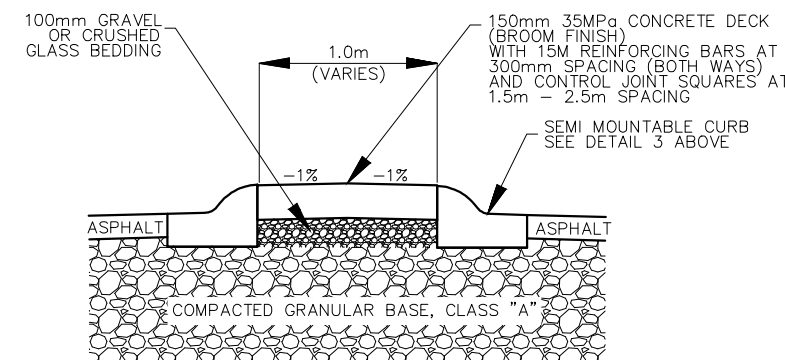
3 **SEMI-MOUNTABLE CONCRETE CURB**
SCALE: N.T.S.



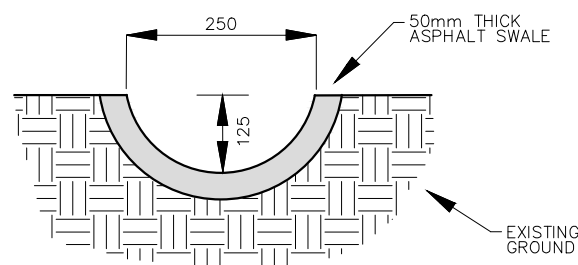
4 **SEMI-MOUNTABLE CONCRETE CURB WITH GUTTER**
SCALE: N.T.S.



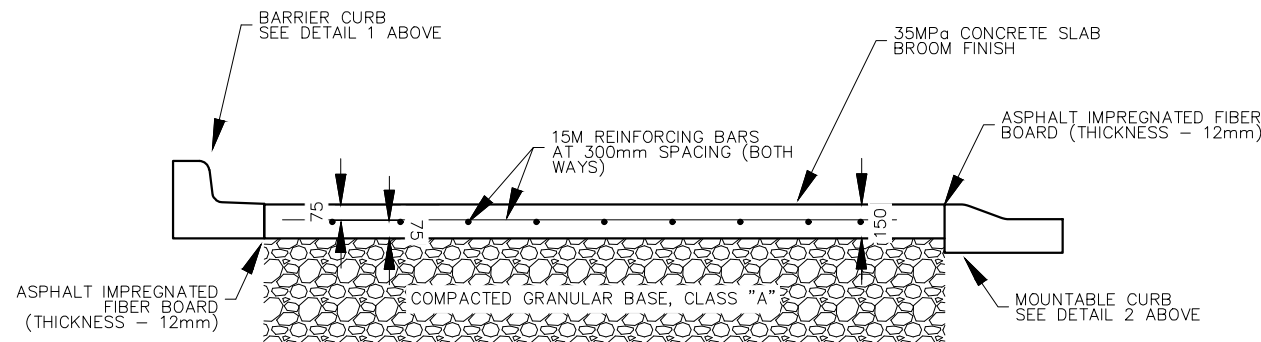
5 **SAWCUT JOINTS (CONCRETE APRON)**
SCALE: N.T.S.



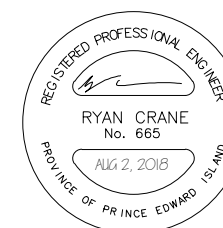
6 **CONCRETE SPLITTER ISLAND**
SCALE: N.T.S.



7 **ASPHALT DRAINAGE SWALE**
SCALE: N.T.S.



8 **CONCRETE TRUCK APRON**
SCALE: N.T.S.



NOTE:
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED AS METERS.

HORIZONTAL ALIGNMENT REPORT: ROUTE 12

TAG No	STATION	CURVE/SPIRAL/TANGET DATA	NORTHING	EASTING
L8	0+540.000 0+568.924	LENGTH: 28.924	718470.202 718488.117	328435.427 328458.135
		TANGENT DIRECTION: 51°43'46"		
C7	0+583.558	LENGTH: 29.268 RADIUS: 4000.000 DELTA: 0°25'09" DEGREE OF CURVATURE (ARC): 0°25'47" CHORD: 29.268 MID—ORDINATE: 0.027	718497.181	328469.624
		TANGENT DIRECTION: 51°43'46"		
L9	0+598.192 0+652.210	LENGTH: 54.017	718506.161 718539.306	328481.179 328523.832
		TANGENT DIRECTION: 52°08'55"		
C5	0+668.880	LENGTH: 33.340 RADIUS: 3000.000 DELTA: 0°38'12" DEGREE OF CURVATURE (ARC): 0°34'23" CHORD: 33.340 MID—ORDINATE: 0.046	718549.536	328536.994
		TANGENT DIRECTION: 52°08'55"		
L5	0+685.550 0+729.757	LENGTH: 44.207	718559.910 718587.423	328550.043 328584.646
		TANGENT DIRECTION: 51°30'43"		
C4	0+786.373	LENGTH: 107.953 RADIUS: 145.000 DELTA: 42°39'24" DEGREE OF CURVATURE (ARC): 11°51'15" CHORD: 105.477 MID—ORDINATE: 9.931	718622.658	328628.961
		TANGENT DIRECTION: 51°30'43"		
L4	0+837.710 0+851.516	LENGTH: 13.806	718618.542 718617.539	328685.427 328699.197
		TANGENT DIRECTION: 94°10'07"		
C3	0+915.983	LENGTH: 121.323 RADIUS: 145.000 DELTA: 47°56'24" DEGREE OF CURVATURE (ARC): 11°51'15" CHORD: 117.815 MID—ORDINATE: 12.505	718612.852	328763.493
		TANGENT DIRECTION: 94°10'07"		
L6	0+972.839 0+973.147	LENGTH: 0.308	718561.976 718561.733	328803.087 328803.276
		TANGENT DIRECTION: 142°06'31"		
C6	1+001.232	LENGTH: 56.140 RADIUS: 700.000 DELTA: 4°35'43" DEGREE OF CURVATURE (ARC): 2°27'20" CHORD: 56.125 MID—ORDINATE: 0.563	718539.569	328820.525
		TANGENT DIRECTION: 142°06'31"		
L7	1+029.287 1+148.219	LENGTH: 118.932	718518.858 718431.153	328839.494 328919.823
		TANGENT DIRECTION: 137°30'49"		

SUPERELEVATION REPORT: ROUTE 12 SUPER

Start Station	Left Outside Lane	Right Outside Lane
0+540.00m	0.00%	−4.50%
0+570.00m	−2.50%	−2.50%
0+675.00m	−2.50%	−2.50%
0+710.00m	0.00%	−2.50%
0+740.00m	2.50%	−2.50%
0+760.00m	2.50%	−2.50%
0+807.00m	−2.00%	−2.00%
0+880.00m	−2.00%	−2.00%
0+937.00m	2.50%	−2.50%
0+985.00m	2.50%	−2.50%
1+016.00m	−2.50%	2.50%
1+038.00m	−2.50%	2.50%
1+094.00m	−2.50%	−2.50%
1+148.00m	−1.50%	−2.00%

VERTICAL ALIGNMENT REPORT: ROUTE 12 VERT

No.	Type	Profile Curve Type	Length	Total Curve Length	Grade	K Value	Start Station	Start Elevation	End Station	End Elevation	Grade In	Grade Out	Grade Change	PVI Station	PVI Elevation
1	Tangent		12.841m		0.87%		0+540.00m	19.782m	0+552.84m	19.894m					
2	Symmetric Parabola	Sag	27.671m	27.671m		60	0+552.84m	19.894m	0+580.51m	20.199m	0.87%	1.33%	0.46%	0+566.68m	20.014m
3	Tangent		68.331m		1.33%		0+580.51m	20.199m	0+648.84m	21.109m					
4	Symmetric Parabola	Crest	78.402m	78.402m		63.881	0+648.84m	21.109m	0+727.25m	21.672m	1.33%	0.10%	−1.23%	0+688.04m	21.631m
5	Tangent		55.310m		0.10%		0+727.25m	21.672m	0+782.56m	21.730m					
6	Symmetric Parabola	Sag	49.189m	49.189m		40.196	0+782.56m	21.730m	0+831.74m	22.082m	0.10%	1.33%	1.22%	0+807.15m	21.756m
7	Tangent		8.419m		1.33%		0+831.74m	22.082m	0+840.16m	22.194m					
8	Symmetric Parabola	Crest	1.331m	1.331m		1	0+840.16m	22.194m	0+841.49m	22.203m	1.33%	0.00%	−1.33%	0+840.83m	22.203m
9	Tangent		21.784m		0.00%		0+841.49m	22.203m	0+863.28m	22.202m					
10	Symmetric Parabola	Crest	2.833m	2.833m		1.002	0+863.28m	22.202m	0+866.11m	22.162m	0.00%	−2.83%	−2.83%	0+864.69m	22.202m
11	Tangent		93.199m		−2.83%		0+866.11m	22.162m	0+959.31m	19.526m					
12	Symmetric Parabola	Sag	40.055m	40.055m		62.566	0+959.31m	19.526m	0+999.37m	18.521m	−2.83%	−2.19%	0.64%	0+979.34m	18.959m
13	Tangent		17.860m		−2.19%		0+999.37m	18.521m	1+017.23m	18.130m					
14	Symmetric Parabola	Crest	45.835m	45.835m		67.42	1+017.23m	18.130m	1+063.06m	16.971m	−2.19%	−2.87%	−0.68%	1+040.14m	17.628m
15	Tangent		85.159m		−2.87%		1+063.06m	16.971m	1+148.22m	14.528m					

HORIZONTAL ALIGNMENT REPORT: ROUTE 131

TAG No	STATION	CURVE/SPIRAL/TANGET DATA	NORTHING	EASTING
L10	0+000.000 0+017.156	LENGTH: 17.156	718618.040 718635.176	328692.312 328693.149
			TANGENT DIRECTION: 2°47'51"	
C8	0+057.692	LENGTH: 76.172 RADIUS: 90.000 DELTA: 48°29'34" DEGREE OF CURVATURE (ARC): 19°05'55" CHORD: 73.919 MID—ORDINATE: 7.939	718675.663	328695.128
			TANGENT DIRECTION: 2°47'51"	
L11	0+093.328 0+198.954	LENGTH: 105.626	718701.013 718767.069	328726.758 328809.180
			TANGENT DIRECTION: 51°17'24"	

SUPERELEVATION REPORT: ROUTE 131 SUPER

Start Station	Left Outside Lane	Right Outside Lane
0+030.00m	−2.00%	−2.00%
0+036.00m	−1.50%	−2.00%
0+042.00m	−1.00%	−2.50%
0+060.00m	1.00%	−2.50%
0+100.00m	−1.90%	−1.30%

HORIZONTAL ALIGNMENT REPORT: CIRCLE

TAG No	STATION	CURVE/SPIRAL/TANGET DATA	NORTHING	EASTING
L12	0+000.000 0+000.002	LENGTH: 0.002	718629.685 718629.684	328692.881 328692.883
			TANGENT DIRECTION: 92°47'51"	
C9	0+011.660	LENGTH: 18.312 RADIUS: 11.658 DELTA: 90°00'00" DEGREE OF CURVATURE (ARC): 147°26'30" CHORD: 16.487 MID—ORDINATE: 3.415	718630.253	328681.239
			TANGENT DIRECTION: 272°47'51"	
C10	0+029.972	LENGTH: 18.312 RADIUS: 11.658 DELTA: 90°00'00" DEGREE OF CURVATURE (ARC): 147°26'30" CHORD: 16.487 MID—ORDINATE: 3.415	718606.965	328680.101
			TANGENT DIRECTION: 182°47'51"	
L14	0+036.626 0+036.630	LENGTH: 0.003	718606.396 718606.396	328691.745 328691.742
			TANGENT DIRECTION: 272°47'51"	
C11	0+048.284	LENGTH: 18.306 RADIUS: 11.654 DELTA: 90°00'00" DEGREE OF CURVATURE (ARC): 147°29'32" CHORD: 16.481 MID—ORDINATE: 3.413	718605.828	328703.382
			TANGENT DIRECTION: 92°47'51"	
L15	0+054.936 0+054.978	LENGTH: 0.042	718617.468 718617.510	328703.950 328703.953
			TANGENT DIRECTION: 2°47'51"	
C12	0+066.598	LENGTH: 18.253 RADIUS: 11.620 DELTA: 90°00'00" DEGREE OF CURVATURE (ARC): 147°55'25" CHORD: 16.433 MID—ORDINATE: 3.403	718629.116	328704.520
			TANGENT DIRECTION: 2°47'51"	
L16	0+073.230 0+073.263	LENGTH: 0.033	718629.683 718629.685	328692.913 328692.881
			TANGENT DIRECTION: 272°47'51"	

VERTICAL ALIGNMENT REPORT: ROUTE 131 VERT

No.	Type	Profile Curve Type	Length	Total Curve Length	Grade	K Value	Start Station	Start Elevation	End Station	End Elevation	Grade In	Grade Out	Grade Change	PVI Station	PVI Elevation
1	Tangent		11.291m		0.00%		0+000.00m	22.203m	0+011.29m	22.203m					
2	Symmetric Parabola	Crest	1.319m	1.319m		1	0+011.29m	22.203m	0+012.61m	22.194m	0.00%	−1.32%	−1.32%	0+011.95m	22.203m
3	Tangent		7.730m		−1.32%		0+012.61m	22.194m	0+020.34m	22.092m					
4	Symmetric Parabola	Sag	35.086m	35.086m		14.56	0+020.34m	22.092m	0+055.43m	22.052m	−1.32%	1.09%	2.41%	0+037.88m	21.861m
5	Tangent		4.082m		1.09%		0+055.43m	22.052m	0+059.51m	22.097m					
6	Symmetric Parabola	Crest	60.225m	60.225m		38.568	0+059.51m	22.097m	0+119.73m	22.284m	1.09%	−0.47%	−1.56%	0+089.62m	22.426m
7	Tangent		10.095m		−0.47%		0+119.73m	22.284m	0+129.83m	22.236m					
8	Symmetric Parabola	Crest	58.624m	58.624m		39.021	0+129.83m	22.236m	0+188.45m	21.520m	−0.47%	−1.97%	−1.50%	0+159.14m	22.098m
9	Tangent		10.501m		−1.97%		0+188.45m	21.520m	0+198.95m	21.313m					

VERTICAL ALIGNMENT REPORT: CIRCLE

No.	Type	Profile Curve Type	Length	Total Curve Length	Grade	K Value	Start Station	Start Elevation	End Station	End Elevation
1	Tangent		73.262m		0.00%		0+000.00m	22.203m	0+073.26m	22.203m

SUPERELEVATION REPORT: CIRCLE SUPER

Superelevation Curve	Start Station	Right Outside Lane
End Normal Crown	0+000.00m	−1.32%
Begin Full Super	0+018.31m	−1.33%
End Full Super	0+054.50m	−2.83%
Begin Normal Crown	0+073.24m	−1.32%