

November 29<sup>th</sup>, 2019

**BY E-MAIL:** [Mike.Giampa@ottawa.ca](mailto:Mike.Giampa@ottawa.ca)

City of Ottawa  
Planning and Growth Management Department  
110 Laurier Ave. W, 4<sup>th</sup> Floor  
Ottawa ON, K1P 1J1

**Attention: Mr. Mike Giampa**  
**Project Manager, Infrastructure Approvals**

Dear Mr. Giampa:

**Reference: 1053, 1075 and 1145 March Road**  
**RMA Application**  
**Our File No.: 116132**

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A Transportation Impact Assessment Report (TIA), was submitted to the City in October 2018 in support of a Draft Plan of Subdivision and Zoning By-law Amendment applications for 1053, 1075 and 1145 March Road.

The roadway modifications associated with this development include the development of a new four-legged signalized intersection along March Road at the proposed Street 1 access. The proposed roadway modifications have been updated to address City comments regarding the east-west multi-use pathway.

Please find attached the required documentation to initiate the Roadway Modification Approval process for the roadway modifications associated with the above-noted development:

- Key Plan (PDF)
- Functional Design Drawing (PDF)
- 1:500 Functional Design Drawing (PDF)
- Preliminary Cost Estimate (PDF)
- Intersection turning movements (PDF)

Digital copies of the drawings will be provided when City comments are provided and addressed.

Contact information for the proponent is as follows:

CU Developments Inc.  
210 Gladstone Avenue, Suite 2001  
Ottawa Ontario K2P 0Y6  
Canada

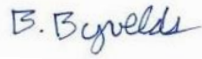
Attention. Jim Burghout  
Email: [jim.burghout@claridgehomes.com](mailto:jim.burghout@claridgehomes.com)

613-233-6030

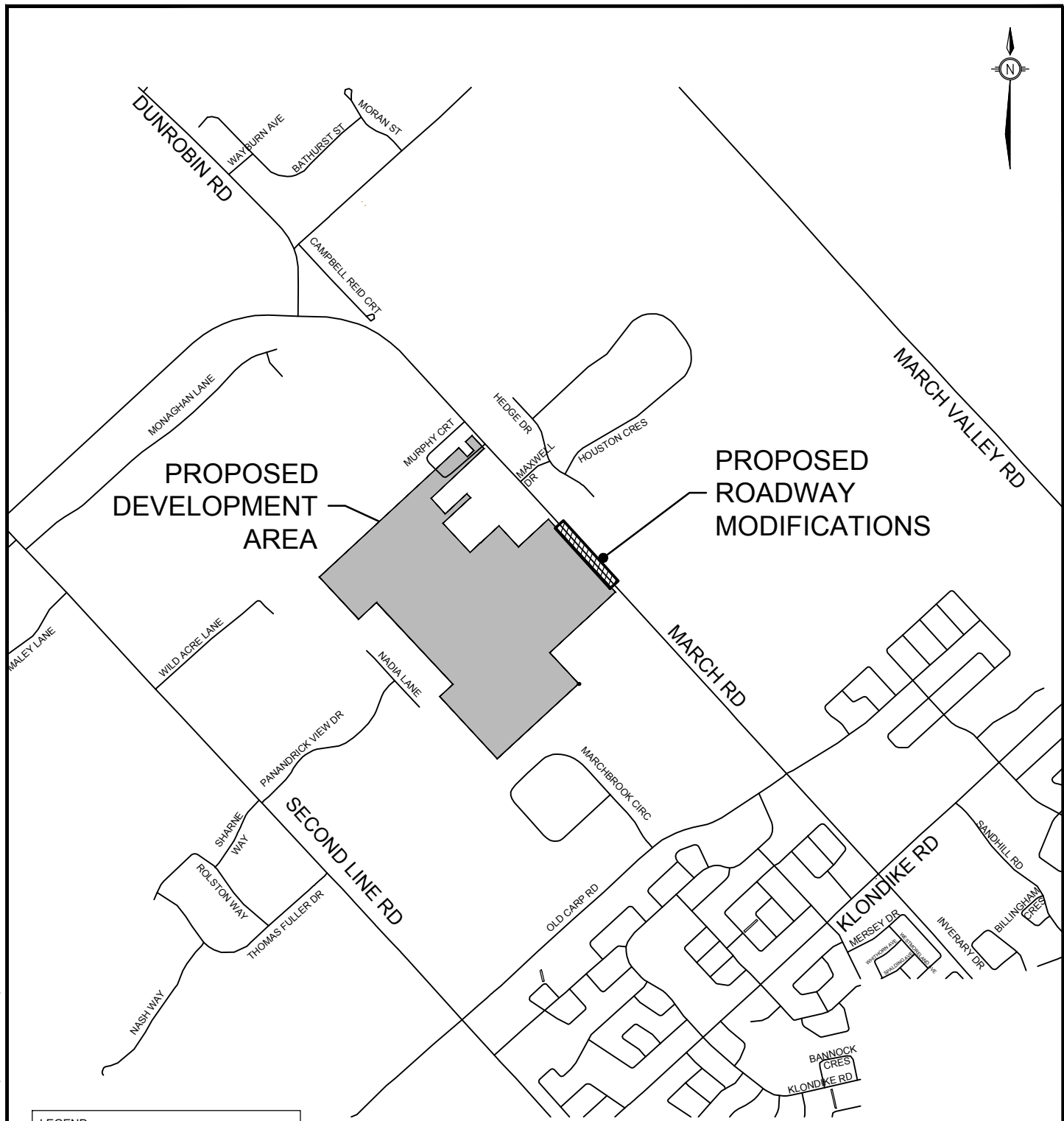
Should you require anything further please feel free to call.



Yours truly,

**NOVATECH**



Brad Byvelds, P. Eng.  
Project Coordinator | Transportation/Traffic



| LEGEND:   |                               |
|---|-------------------------------|
|  | PROPOSED ROADWAY MODIFICATION |
|  | PROPOSED DEVELOPMENT AREA     |

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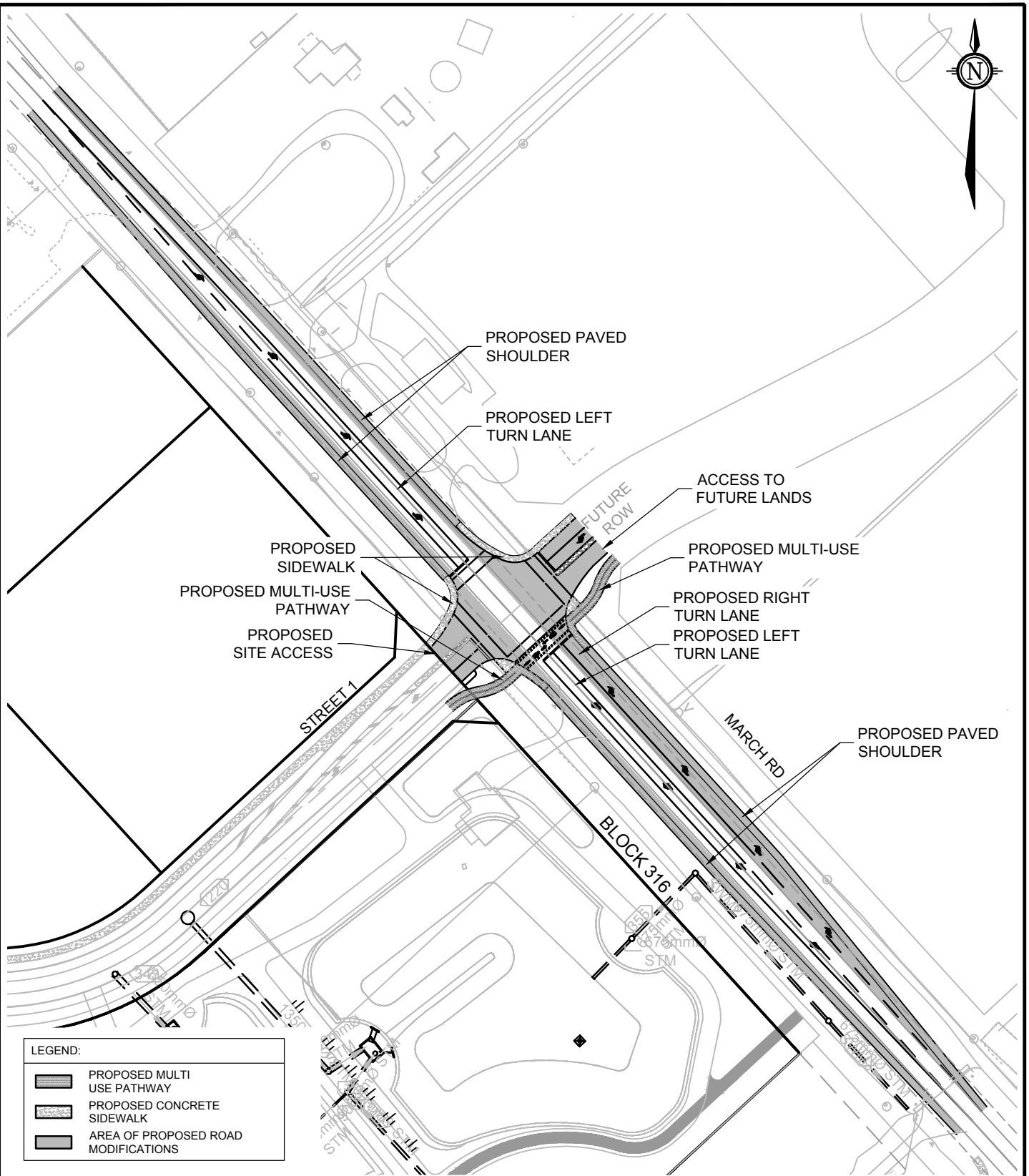
TRANSPORTATION SERVICES  
DEPARTMENT

**KEYPLAN  
MARCH ROAD  
AT  
STREET 1 (KANATA NORTH  
URBAN EXPANSION AREA)**




Transportation Engineering Services

|               |             |
|---------------|-------------|
| Approved By:  | XXXX        |
| Completed By: | NOVATECH    |
| Scale:        | Date:       |
| N.T.S.        | NOV<br>2019 |

Drawing No.:  
  
**RMA-2019  
-TES-????**



LEGEND:

-  PROPOSED MULTI USE PATHWAY
-  PROPOSED CONCRETE SIDEWALK
-  AREA OF PROPOSED ROAD MODIFICATIONS



TRANSPORTATION SERVICES  
DEPARTMENT

**PROPOSED ROADWAY  
MODIFICATIONS**  
**MARCH ROAD  
AT  
STREET 1 (KANATA NORTH  
URBAN EXPANSION AREA)**

Transportation Engineering Services

Approved By: XXXX

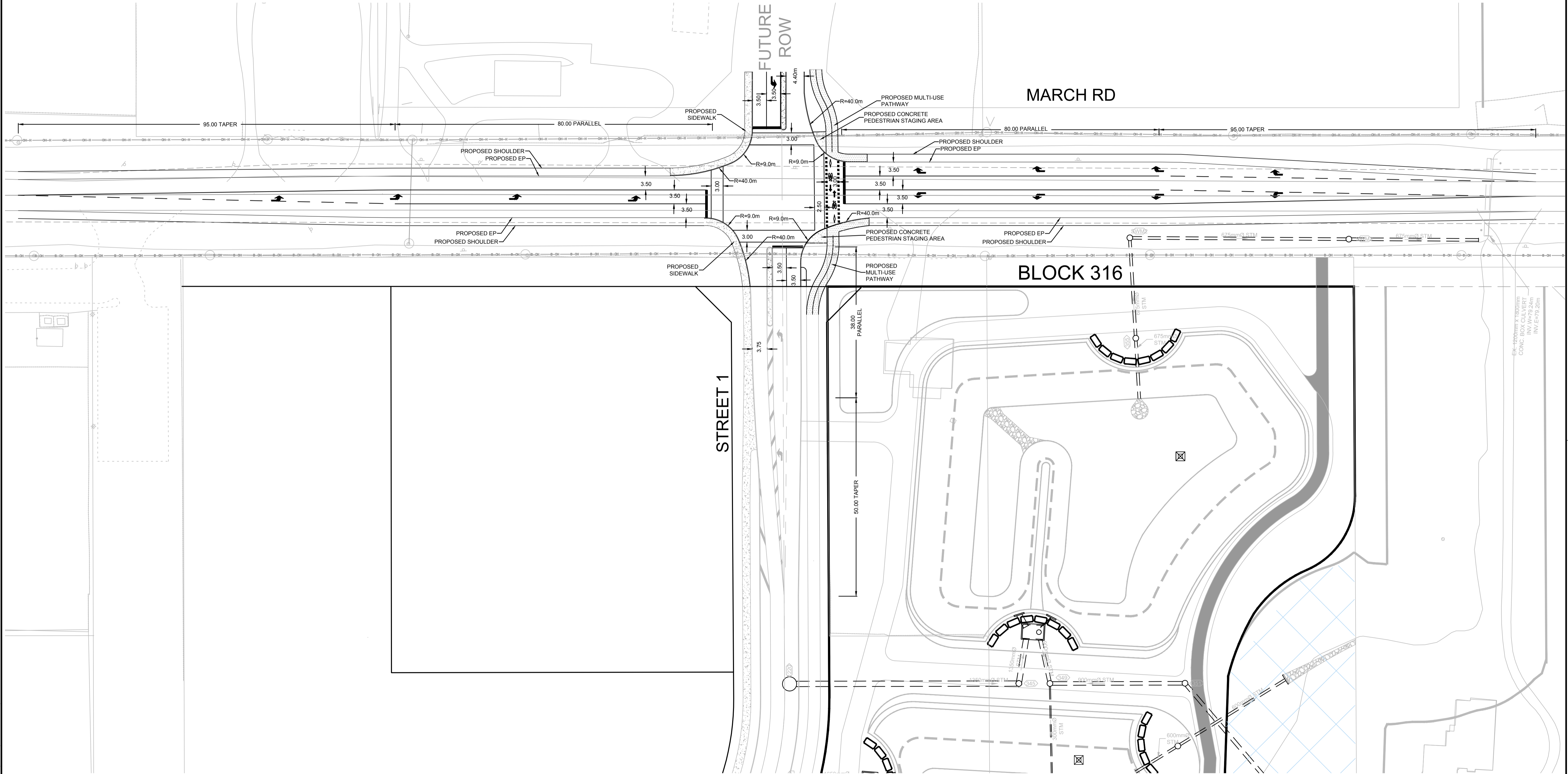
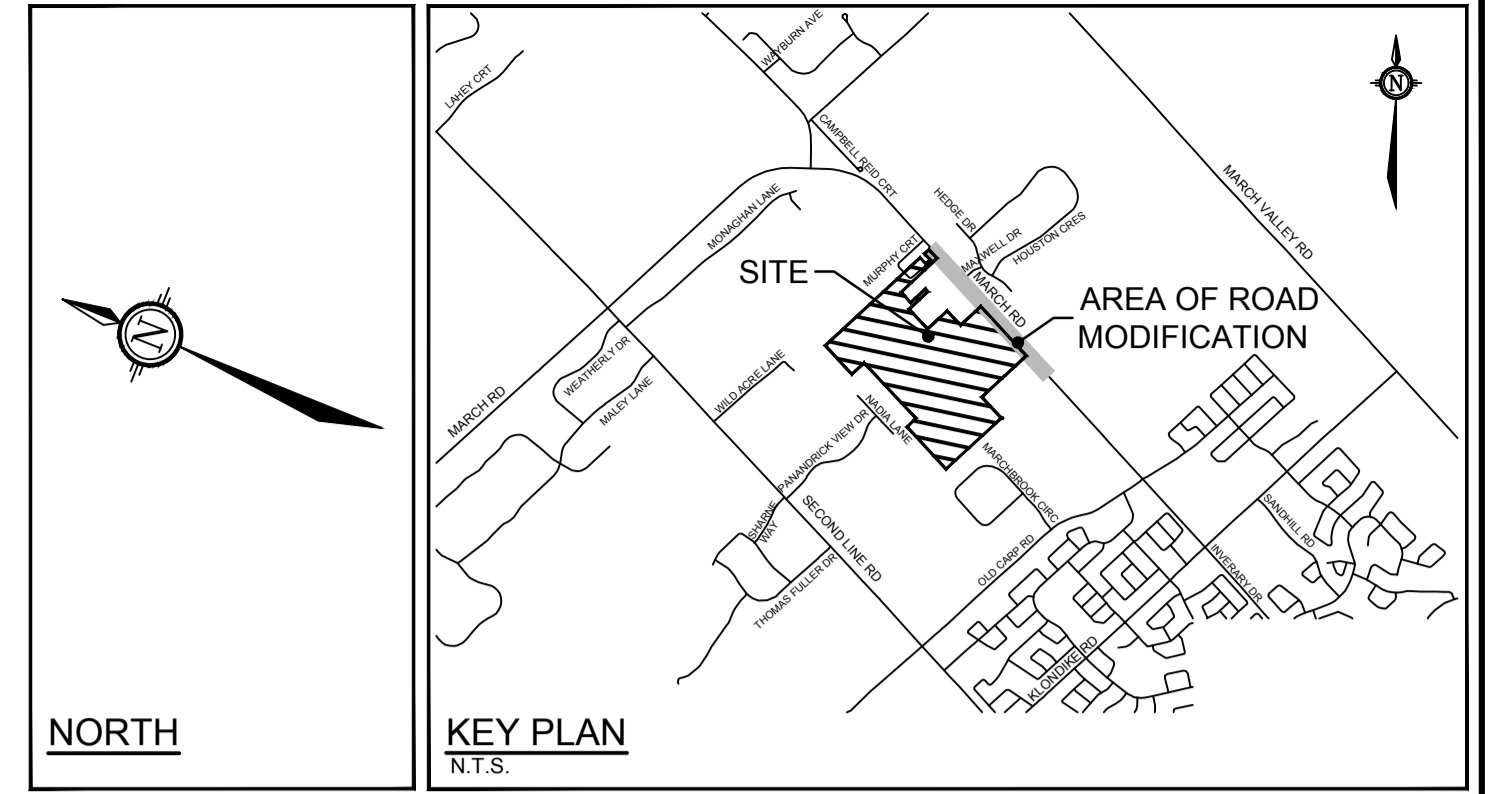
Drawing No.:

Completed By: NOVATECH

**RMA-2019  
-TES-???**

Scale: N.T.S. Date: NOV 2019





NOTE:  
THE POSITION OF ALL POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

| No. | REVISION                         | DATE       | BY  |
|-----|----------------------------------|------------|-----|
| 3.  | REVISED PER CITY COMMENTS        | NOV 29/19  | BJB |
| 2.  | REVISED PER CITY COMMENTS        | MAY 13/19  | BJB |
| 1.  | ISSUED FOR CITY OF OTTAWA REVIEW | SEPT 28/18 | BJB |

| SCALE |  |
|-------|--|
| 1:500 |  |
|       |  |

| DESIGN   |     |
|----------|-----|
| DESIGN   | BJB |
| CHECKED  | JLL |
| DRAWN    | RCH |
| CHECKED  | BJB |
| APPROVED | JLL |

| FOR REVIEW ONLY |  |
|-----------------|--|
|                 |  |
|                 |  |

**NOVATECH**  
Engineers, Planners & Landscape Architects  
Suite 200, 240 Michael Cowpland Drive  
Ottawa, Ontario, Canada K2M 1P6

Telephone (613) 254-9643  
Facsimile (613) 254-5867  
Website www.novatech-eng.com

| LOCATION  |           |
|---|-----------|
| CITY OF OTTAWA<br>MULTIVESCO LANDS - KANATA NORTH         |           |
| DRAWING NAME  |           |
| MARCH ROAD/STREET 1<br>MODIFICATIONS<br>FUNCTIONAL DESIGN |           |
| PROJECT No.   | 116132-00 |
| REV   | REV # 3   |
| DRAWING No.   | 116132-FD |

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**CU DEVELOPMENTS**  
**STREET 1 MARCH ROAD INTERSECTION**  
**COST ESTIMATE**

| ITEM NO.                       | ITEM   | QUANTITY | UNIT           | UNIT RATE   | TOTAL AMOUNT       |
|--------------------------------|--|----------|----------------|-------------|--------------------|
| <b>SECTION A - Earthworks</b>  |  |          |                |             |                    |
| 1                              | Traffic Management   | 1.00     | LS             | \$25,000.00 | \$25,000.00        |
| 2                              | Erosion and Sediment Control   | 1        | LS             | \$10,000.00 | \$10,000.00        |
| 3                              | Excavation and Grading (including tie-in to existing ditch)                      | 1        | LS             | \$35,000.00 | \$35,000.00        |
| 4                              | Topsoil Stripping  | 1,100    | m <sup>2</sup> | \$5.50      | \$6,050.00         |
| 5                              | Realign and Regrade Existing Ditch (including any existing culvert realignments) | 130      | m              | \$40.00     | \$5,200.00         |
| <b>SUBTOTAL - SECTION A</b>    |  |          |                |             | <b>\$81,250.00</b> |
| <b>SECTION B - Storm Sewer</b> |  |          |                |             |                    |
| 1                              | 500mm CSP Culvert  | 60.0     | m              | \$550.00    | \$33,000.00        |
| 2                              | Extend Existing Box Culvert  | 3.0      | m              | \$2,500.00  | \$7,500.00         |
| <b>SUBTOTAL - SECTION B</b>    |  |          |                |             | <b>\$40,500.00</b> |
| <b>SECTION C - Road Works</b>  |  |          |                |             |                    |
| 1                              | Roadway Filter Fabric  | 3,075    | m <sup>2</sup> | \$3.00      | \$9,225.00         |
| 2                              | Subexcavation  | 470      | m <sup>3</sup> | \$50.00     | \$23,500.00        |
| <b>Local Roadway</b>           |  |          |                |             |                    |
| 3                              | Granular B, Type II (450mm)  | 3,075    | m <sup>2</sup> | \$18.00     | \$55,350.00        |
| 4                              | Granular A (150mm)   | 3,075    | m <sup>2</sup> | \$12.00     | \$36,900.00        |
| 5                              | 40mm Superpave 12.5mm PG 58-34   | 1,675    | m <sup>2</sup> | \$18.50     | \$30,987.50        |
| 6                              | 50mm Superpave 19.0mm PG 58-34   | 1,675    | m <sup>2</sup> | \$20.50     | \$34,337.50        |
| 7                              | 50mm Superpave 19.0mm PG 58-34   | 1,675    | m <sup>2</sup> | \$20.50     | \$34,337.50        |
| 8                              | Asphalt Shoulder (80mm)  | 1,400    | m <sup>2</sup> | \$25.00     | \$35,000.00        |
| 9                              | Multi-Use Asphalt Pathway  | 168      | m <sup>2</sup> | \$70.00     | \$11,760.00        |
| 10                             | Curb   |          |                |             |                    |
|                                | a) Barrier   | 57       | m              | \$70.00     | \$3,990.00         |
| 11                             | Sidewalk   |          |                |             |                    |
|                                | a) 1.8m width - Concrete   | 109      | m              | \$115.00    | \$12,535.00        |
| 12                             | Concrete Median  |          |                |             |                    |
|                                | a) 1.5m width - Concrete   | 17       | m <sup>2</sup> | \$80.00     | \$1,360.00         |

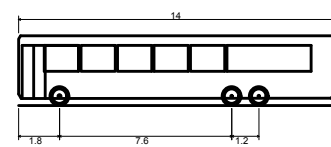
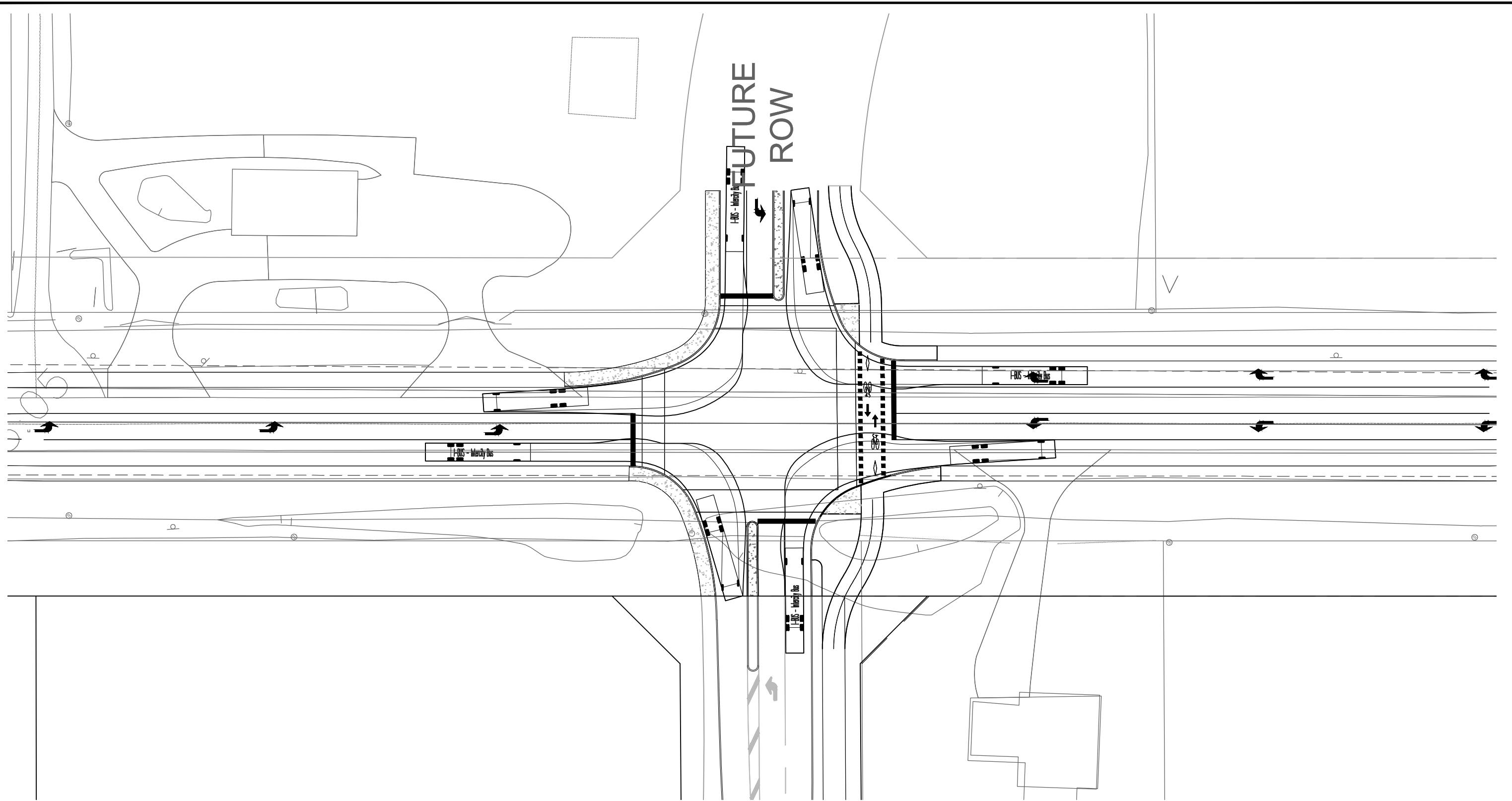
**CU DEVELOPMENTS**  
**STREET 1 MARCH ROAD INTERSECTION**  
**COST ESTIMATE**

| ITEM NO.                       | ITEM   | QUANTITY | UNIT           | UNIT RATE    | TOTAL AMOUNT        |
|--------------------------------|--|----------|----------------|--------------|---------------------|
| 13                             | Removals   |          |                |              |                     |
|                                | a) Saw-Cut and Key Grind Existing Asphalt                                      | 765      | m              | \$15.50      | \$11,857.50         |
|                                | b) Asphalt Removal (existing driveway)   | 245      | m <sup>2</sup> | \$10.50      | \$2,572.50          |
|                                | c) Removal Gravel Shoulder   | 2,130    | m <sup>2</sup> | \$7.00       | \$14,910.00         |
|                                | d) Relocate Existing Traffic Signs   | 2        | ea             | \$150.00     | \$300.00            |
| 14                             | Line Painting  |          |                |              |                     |
|                                | a) Pavement Markings   | 775      | m              | \$5.50       | \$4,262.50          |
|                                | b) Pavement Symbols  | 12       | ea             | \$180.00     | \$2,160.00          |
| <b>SUBTOTAL - SECTION C</b>    |  |          |                |              | <b>\$325,345.00</b> |
| <b>SECTION D - Utilities</b>   |  |          |                |              |                     |
| 1                              | Streetlight Trenching c/w Sand Bedding and Sand Backfill                       |          |                |              |                     |
|                                | a) Boulevard   | 390      | m              | \$36.50      | \$14,235.00         |
| 2                              | Streetlighting   |          |                |              |                     |
|                                | a) New Fixture, Poles, Brackets, Base  | 8        | ea             | \$5,000.00   | \$40,000.00         |
|                                | b) New Fixture, Brackets, Mounted on Joint Use                                 | 4        | ea             | \$2,500.00   | \$10,000.00         |
|                                | c) 75mm Dia. PVC Streetlight Duct  | 365      | m              | \$8.50       | \$3,102.50          |
|                                | d) 2x75mm Dia. Conc. Encased PVC Streetlight Duct                              | 100      |                | \$50.00      | \$5,000.00          |
|                                | e) 3 - #4 AWG Copper (B,W) + #4 GRND   | 525      | m              | \$30.00      | \$15,750.00         |
|                                | f) Streetlight Disconnect (EB99)   | 1        | ea             | \$9,500.00   | \$9,500.00          |
| 3                              | Utility Pole Overhead Line Adjustment  | 4        | ea             | \$5,000.00   | \$20,000.00         |
| 4                              | Utility Pole Relocation  | 2        | ea             | \$17,500.00  | \$35,000.00         |
| 5                              | Signalized Intersection (including all hardware and underground traffic plant) | 1        | LS             | \$325,000.00 | \$325,000.00        |
| <b>SUBTOTAL - SECTION D</b>    |  |          |                |              | <b>\$477,587.50</b> |
| <b>SECTION E - Landscaping</b> |  |          |                |              |                     |
| 1                              | Topsoil, Seed and Mulch  | 720      | m <sup>2</sup> | \$15.00      | \$10,800.00         |
| <b>SUBTOTAL - SECTION E</b>    |  |          |                |              | <b>\$10,800.00</b>  |
| <b>TOTAL</b>                   |  |          |                |              | <b>\$935,482.50</b> |

Notes:

- 1) Granulars for the asphalt shoulder included in the roadway Granular 'A' and Granular 'B' items.
- 2) Streetlighting based on an average spacing of 1/50m and an additional 4 for the intersection.
- 3) Assume Streetlighting on one side only behind shoulder c/w pole, too much spacing between hydro poles to accommodate.
- 4) Assume Hydro available at any utility pole for streetlighting.

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I-BUS - Intercity Bus  
 Overall Length 14.000m  
 Overall Width 3.084m  
 Overall Body Height 2.400m  
 Min Body Ground Clearance 0.319m  
 Track Width 2.400m  
 Lock-to-lock time 4.00s  
 Curb to Curb Turning Radius 13.900m

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CLARIDGE/UNIFORM  
 DEVELOPMENT

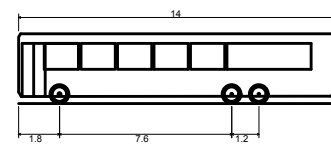
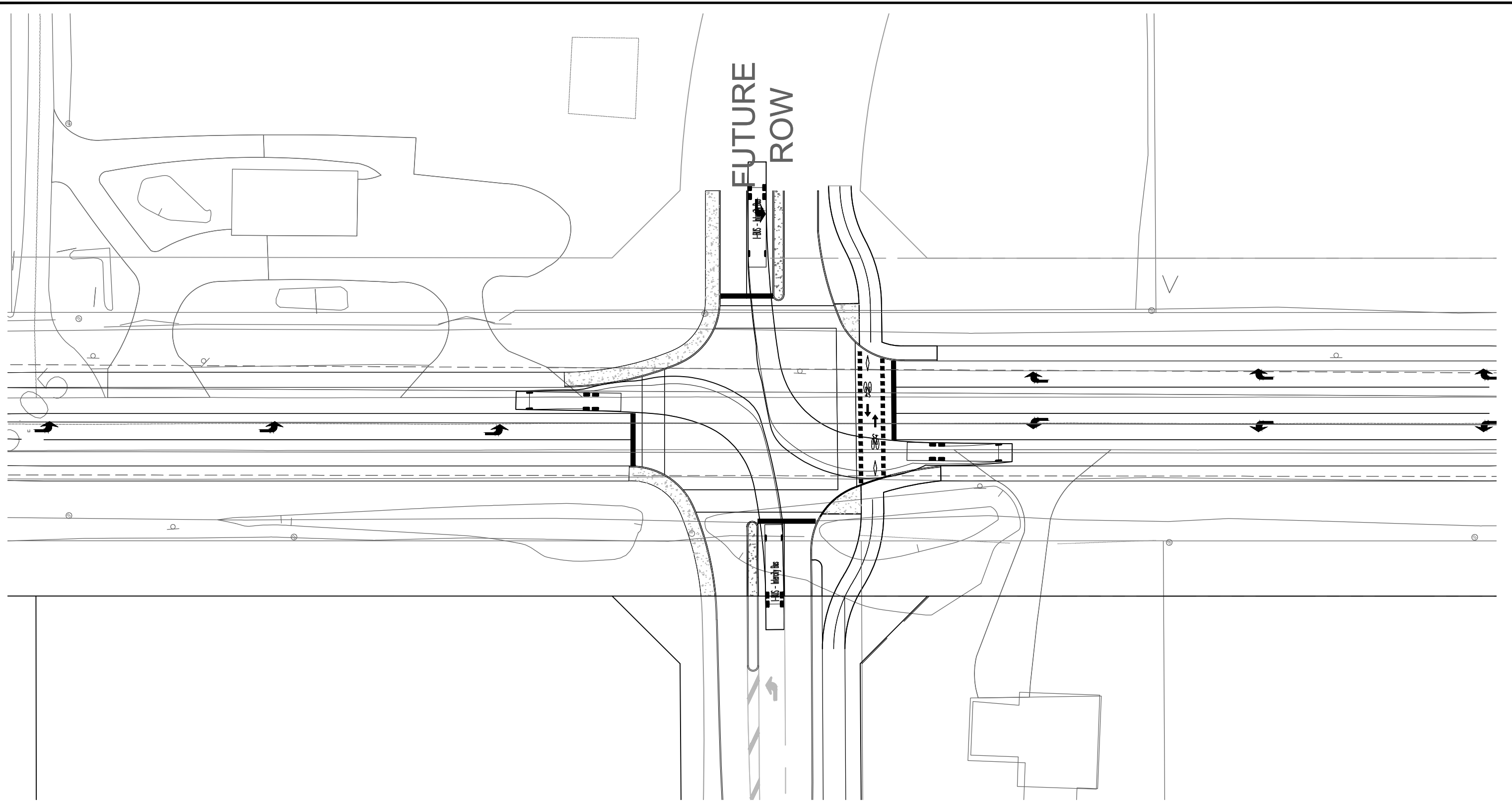
MARCH ROAD/STREET 1  
 TURNING MOVEMENTS

SCALE 1 : 500

DATE NOV 2019 JOB 116132 FIGURE TM-1



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I-BUS - Intercity Bus  
 Overall Length 14.000m  
 Overall Width 2.400m  
 Overall Body Height 3.084m  
 Min Body Ground Clearance 0.319m  
 Track Width 2.400m  
 Lock-to-lock time 4.00s  
 Curb to curb Turning Radius 13.900m

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CLARIDGE/UNIFORM DEVELOPMENT

MARCH ROAD/STREET 1 TURNING MOVEMENTS

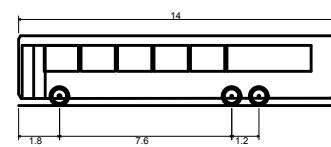
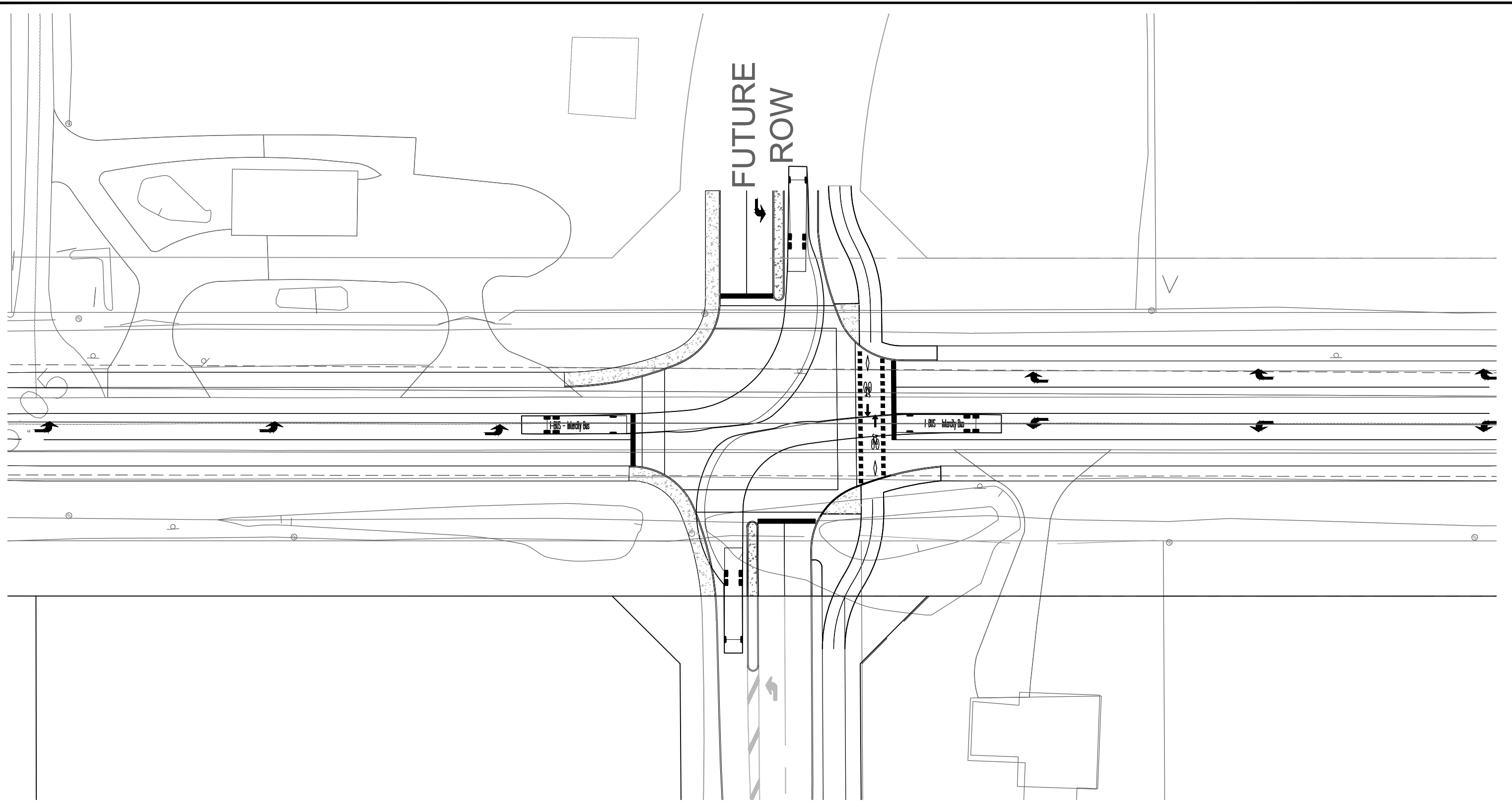
SCALE 1 : 500



DATE NOV 2019 JOB 116132 FIGURE TM-2

CUT11V17 DWG 270mm X 132mm

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I-BUS - Intercity Bus  
 Overall Length 14.000m  
 Overall Width 2.400m  
 Overall Body Height 3.084m  
 Min Body Ground Clearance 0.319m  
 Track Width 2.400m  
 Lock-to-lock time 4.00s  
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CLARIDGE/UNIFORM  
 DEVELOPMENT

MARCH ROAD/STREET 1  
 TURNING MOVEMENTS

SCALE 1 : 500

DATE NOV 2019 JOB 116132 FIGURE TM-3