



| CURVE | RADIUS  | DELTA      | TANGENT | LENGTH  |
|-------|---------|------------|---------|---------|
| C101  | 50.000  | 0°54'59"   | 0.400   | 0.800   |
| C102  | 140.000 | 5°42'33"   | 6.981   | 13.950  |
| C103  | 140.000 | 5°42'33"   | 6.981   | 13.950  |
| C104  | 25.000  | 11°57'41"  | 2.619   | 5.219   |
| C105  | 3.250   | 146°26'09" | 10.777  | 8.306   |
| C106  | 3.250   | 146°26'09" | 10.777  | 8.306   |
| C107  | 25.000  | 21°36'10"  | 4.770   | 9.426   |
| C108  | 925.695 | 13°23'42"  | 108.704 | 216.417 |
| C109  | 933.695 | 30°39'57"  | 256.007 | 499.732 |
| C110  | 25.000  | 36°20'27"  | 8.205   | 15.857  |
| C111  | 4.000   | 144°26'10" | 12.472  | 10.084  |
| C112  | 4.500   | 148°56'48" | 16.197  | 11.698  |

| CURVE | RADIUS  | DELTA      | TANGENT | LENGTH  |
|-------|---------|------------|---------|---------|
| C113  | 25.000  | 31°43'34"  | 7.104   | 13.843  |
| C114  | 925.695 | 11°15'16"  | 91.209  | 181.831 |
| C115  | 140.000 | 7°43'25"   | 9.450   | 18.872  |
| C116  | 140.000 | 4°44'12"   | 5.790   | 11.574  |
| C117  | 25.000  | 13°38'48"  | 2.991   | 5.954   |
| C118  | 3.400   | 148°03'33" | 11.880  | 8.786   |
| C119  | 25.000  | 18°11'29"  | 4.002   | 7.938   |
| C120  | 913.695 | 3°34'47"   | 28.551  | 57.084  |
| C121  | 50.000  | 22°47'13"  | 10.076  | 19.885  |
| C122  | 25.000  | 40°19'19"  | 9.179   | 17.594  |
| C123  | 50.006  | 23°12'30"  | 10.269  | 20.256  |

**APEGM**  
 Certificate of Authorization  
**Wardrop Engineering Inc.**  
 No. 195 Expiry: April 30, 2013

| EXISTING | LEGEND-PLAN         | PROPOSED | EXISTING          | LEGEND-PLAN    | PROPOSED   | EXISTING   | LEGEND-PLAN | PROPOSED |
|----------|---------------------|----------|-------------------|----------------|--|------------|-------------|----------|
| 150 WM   | WATERMAIN           | 150 WM   | SWALE             | TRAFFIC SIGNAL | LOCATION APPROVED UNDERGROUND STRUCTURES   | B.M. ELEV. |             |          |
| 400 FM   | FEEDERMAIN          | 400 FM   | MANHOLE           | GAS            |  |            |             |          |
| 300 LDS  | LAND DRAINAGE SEWER | 300 LDS  | CATCHBASIN        | HYDRO          |  |            |             |          |
| 250 WWS  | WASTEWATER SEWER    | 250 WWS  | HYDRO BOX         | MTS            |  |            |             |          |
| 300 CS   | COMBINED SEWER      | 300 CS   | HYDRO POLE        | SPRINKLER      | SUPV. U/G STRUCTURES COMMITTEE   | DATE       |             |          |
| 200 FCM  | FORCEMAIN           | 200 FCM  | LIGHT STANDARD    | ELEVATION      |  |            |             |          |
|          | JUNCTIONS           |          | ANCHOR            | SIDEWALK       | NOTE:  |            |             |          |
|          | HYDRANT             |          | TREE              | CURB           | LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE. BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION. |            |             |          |
|          | VALVE               |          | SURVEY BAR        | ASPHALT        |  |            |             |          |
|          | CURB STOP           |          | SIGNAL CONTROLLER | CONCRETE       |  |            |             |          |
|          | LEGEND-PLAN         | PROPOSED | LEGEND-PLAN       | LEGEND-PLAN    |  |            |             |          |

| NO. | REVISIONS                 | DATE     | BY |
|-----|---------------------------|----------|----|
| 01  | ISSUED FOR ADDENDUM No. 1 | 12.06.19 | TF |
| 00  | ISSUED FOR TENDER         | 12.06.11 | TF |

| DESIGNED BY | CHECKED BY                |
|-------------|---------------------------|
| GMD         |                           |
| DRAWN BY    | APPROVED BY               |
|             |                           |
| HOR. SCALE: | RELEASED FOR CONSTRUCTION |
| 1 : 500     |                           |
| VERTICAL:   | DATE                      |
|             | 12.04.24                  |

**TETRA TECH**

CONSULTANT DRAWING NO. 1200070300-DWG-C1009-01

**PRELIMINARY DRAWING**

NOT TO BE USED FOR CONSTRUCTION

**THE CITY OF WINNIPEG**  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING DIVISION

WAVERLEY STREET EXTENSION  
 KENASTON BOULEVARD (FUTURE) TO TIM SALE DRIVE

WAVERLEY STREET (EASTBOUND LANES)  
 GEOMETRICS

CITY DRAWING NUMBER  
 SHEET 9 OF 11  
 C1009