



| STERLING LYON PARKWAY EAST NORTH CONTROL LINE | | |
|---|--------------|--------------|
| PT=2+776.446 | N 10279.7883 | E 10277.2615 |
| PS=2+961.813 | N 10326.5883 | E 10456.6234 |
| SC=3+013.888 | N 10339.0118 | E 10507.1906 |

| STERLING LYON PARKWAY EAST SOUTH CONTROL LINE | | |
|---|--------------|--------------|
| PT=2+780.239 | N 10268.1771 | E 10280.2911 |
| TS=2+965.865 | N 10315.0424 | E 10459.9037 |
| SC=3+017.423 | N 10327.3352 | E 10509.9696 |

| CIRCULAR CURVE TABLE | | | | |
|----------------------|----------|---------|---------|----------|
| CURVE | RADIUS | LENGTH | TANGENT | DELTA |
| C7 | 2506.000 | 254.940 | 127.580 | 5°49'44" |
| C13 | 2514.300 | 239.855 | 120.018 | 5°27'57" |
| C19 | 2485.700 | 54.382 | 27.192 | 1°15'13" |
| C20 | 2494.000 | 65.877 | 32.940 | 1°30'48" |
| C21 | 165.000 | 11.585 | 5.795 | 4°01'22" |
| C22 | 165.000 | 14.273 | 7.141 | 4°57'23" |
| C23 | 614.300 | 13.105 | 6.553 | 1°13'20" |

| SPIRAL CURVE TABLE | | | | |
|--------------------|--------|----------|--------|--------|
| SPIRAL | LENGTH | THETA | S TAN | L TAN |
| S1 | 52.431 | 2°26'42" | 17.480 | 34.957 |
| S2 | 52.075 | 2°27'42" | 17.361 | 34.720 |
| S3 | 51.709 | 2°28'45" | 17.239 | 34.476 |
| S4 | 51.196 | 2°30'15" | 17.068 | 34.134 |

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

WARNING

IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:
1) NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
2) TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.
SEE PROVINCIAL REGULATION 140/92 FOR DETAILS

BENCH MARK: BOLT IN 12.5m CONC. PILE, 2.4m N. OF S.L. OF WILKES AVE. (FENCE LINE), & 7m E. OF E. FACE OF 2nd TOWER W. OF THE MOST ELY. SET OF TRACKS OF C.P.R. LA RIVIERE SUBD.



NOTE:
ALL STATIONS NORTH OF R.O.W. CENTRELINE, BASED ON NORTH CONTROL LINE.
ALL STATIONS SOUTH OF R.O.W. CENTRELINE, BASED ON SOUTH CONTROL LINE.

APEGM
Certificate of Authorization
Stantec Consulting Ltd.
No. 1301 Expiry: April 30, 2005

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| <table border="1"> <tr> <td>—</td><td>GAS</td><td>○</td><td>MANHOLE</td><td>●</td><td>CONCRETE PAVEMENT</td><td>▨</td><td>LOCATION APPROVED UNDERGROUND STRUCTURES</td><td>B.M. 66-001</td><td rowspan="2"> <p>905 Waverley Street, Winnipeg, Manitoba Tel 204-489-5900 Fax 204-453-9012</p> </td> <td rowspan="2"> ENGINEER'S SEAL ORIGINAL SEALED BY G.W. MOURANT P. ENG. 05.03.24 </td> <td rowspan="2"> <p>THE CITY OF WINNIPEG PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION</p> </td> <td rowspan="2"> SHEET 6 OF 60 CAD FILE DRAWING NUMBER slope-geom.dwg </td> </tr> <tr> <td>—</td><td>MTS</td><td>□</td><td>CATCH BASIN/CATCH PIT</td><td>■</td><td>ASPHALT PAVEMENT</td><td>▩</td><td></td> <td rowspan="2"> DESIGNED BY: TAS CHECKED BY: TAS, WKB DRAWN BY: TAG APPROVED BY: GWM AUTHORIZED BY: R. FINGAS, P. ENG. DATE: 05.03.24 </td> <td rowspan="2"> CONSULTANT DRAWING NO. I13703042-H04 </td> <td rowspan="2"> CITY DRAWING NUMBER P-3258-06 </td> </tr> </table> | — | GAS | ○ | MANHOLE | ● | CONCRETE PAVEMENT | ▨ | LOCATION APPROVED UNDERGROUND STRUCTURES | B.M. 66-001 | <p>905 Waverley Street, Winnipeg, Manitoba Tel 204-489-5900 Fax 204-453-9012</p> | ENGINEER'S SEAL ORIGINAL SEALED BY G.W. MOURANT P. ENG. 05.03.24 | <p>THE CITY OF WINNIPEG PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION</p> | SHEET 6 OF 60 CAD FILE DRAWING NUMBER slope-geom.dwg | — | MTS | □ | CATCH BASIN/CATCH PIT | ■ | ASPHALT PAVEMENT | ▩ | | DESIGNED BY: TAS CHECKED BY: TAS, WKB DRAWN BY: TAG APPROVED BY: GWM AUTHORIZED BY: R. FINGAS, P. ENG. DATE: 05.03.24 | CONSULTANT DRAWING NO. I13703042-H04 | CITY DRAWING NUMBER P-3258-06 | <table border="1"> <tr> <td>—</td><td>HYDRO</td><td>△</td><td>C & G INLET WITH BOX</td><td>▲</td><td>CONC. SIDEWALK/MED. SLAB</td><td>▧</td><td></td> <td rowspan="2"> SUPV. U/G STRUCTURES COMMITTEE DATE NOTE: 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. </td> <td rowspan="2"> HOR. SCALE: AS SHOWN VERTICAL: N/A </td> <td rowspan="2"> DATE: 04.02.05 </td> <td rowspan="2"> R. FINGAS, P. ENG. BRIDGE PROJECTS ENGINEER </td> <td rowspan="2"> HORIZONTAL GEOMETRY STA 2+750 TO STA 3+025 </td> </tr> <tr> <td>—</td><td>VIDEO</td><td>⊙</td><td>TREE</td><td>⊙</td><td>PAVING STONE</td><td>▩</td><td></td> </tr> </table> | — | HYDRO | △ | C & G INLET WITH BOX | ▲ | CONC. SIDEWALK/MED. SLAB | ▧ | | SUPV. U/G STRUCTURES COMMITTEE DATE NOTE: 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. | HOR. SCALE: AS SHOWN VERTICAL: N/A | DATE: 04.02.05 | R. FINGAS, P. ENG. BRIDGE PROJECTS ENGINEER | HORIZONTAL GEOMETRY STA 2+750 TO STA 3+025 | — | VIDEO | ⊙ | TREE | ⊙ | PAVING STONE | ▩ | | <table border="1"> <tr> <td>—</td><td>TRAFFIC SIGNALS</td><td>⊙</td><td>TEST HOLE</td><td>○</td><td>TOPSOIL & SOD</td><td>▨</td><td></td> </tr> <tr> <td>—</td><td>LAND DRAINAGE SEWER</td><td>—</td><td>PROPERTY LINE</td><td>—</td><td>GRAVEL</td><td>▩</td><td></td> </tr> <tr> <td>—</td><td>SANITARY/COMBINED SEWER</td><td>—</td><td>SURVEY BAR</td><td>—</td><td>RAMP CURB</td><td>▩</td><td></td> </tr> <tr> <td>—</td><td>CATCHBASIN LEAD</td><td>—</td><td>GEODETIC MONUMENT</td><td>—</td><td>REMOVAL</td><td>▩</td><td></td> </tr> <tr> <td>—</td><td>WATERMAIN</td><td>—</td><td>FENCE</td><td>—</td><td></td><td></td><td></td> </tr> <tr> <td>—</td><td>SUBDRAIN</td><td>—</td><td>BACK OF CURB</td><td>—</td><td></td><td></td><td></td> </tr> <tr> <td>—</td><td>DITCH</td><td>—</td><td>ELEVATION</td><td>—</td><td></td><td></td><td></td> </tr> </table> | — | TRAFFIC SIGNALS | ⊙ | TEST HOLE | ○ | TOPSOIL & SOD | ▨ | | — | LAND DRAINAGE SEWER | — | PROPERTY LINE | — | GRAVEL | ▩ | | — | SANITARY/COMBINED SEWER | — | SURVEY BAR | — | RAMP CURB | ▩ | | — | CATCHBASIN LEAD | — | GEODETIC MONUMENT | — | REMOVAL | ▩ | | — | WATERMAIN | — | FENCE | — | | | | — | SUBDRAIN | — | BACK OF CURB | — | | | | — | DITCH | — | ELEVATION | — | | | | <table border="1"> <tr> <td>—</td><td>EXISTING</td><td>—</td><td>LEGEND - PLAN</td><td>—</td><td>NEW</td><td>—</td><td>EXISTING</td><td>LEGEND - PLAN</td><td>NEW</td> </tr> </table> | — | EXISTING | — | LEGEND - PLAN | — | NEW | — | EXISTING | LEGEND - PLAN | NEW |
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| — | DITCH | — | ELEVATION | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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