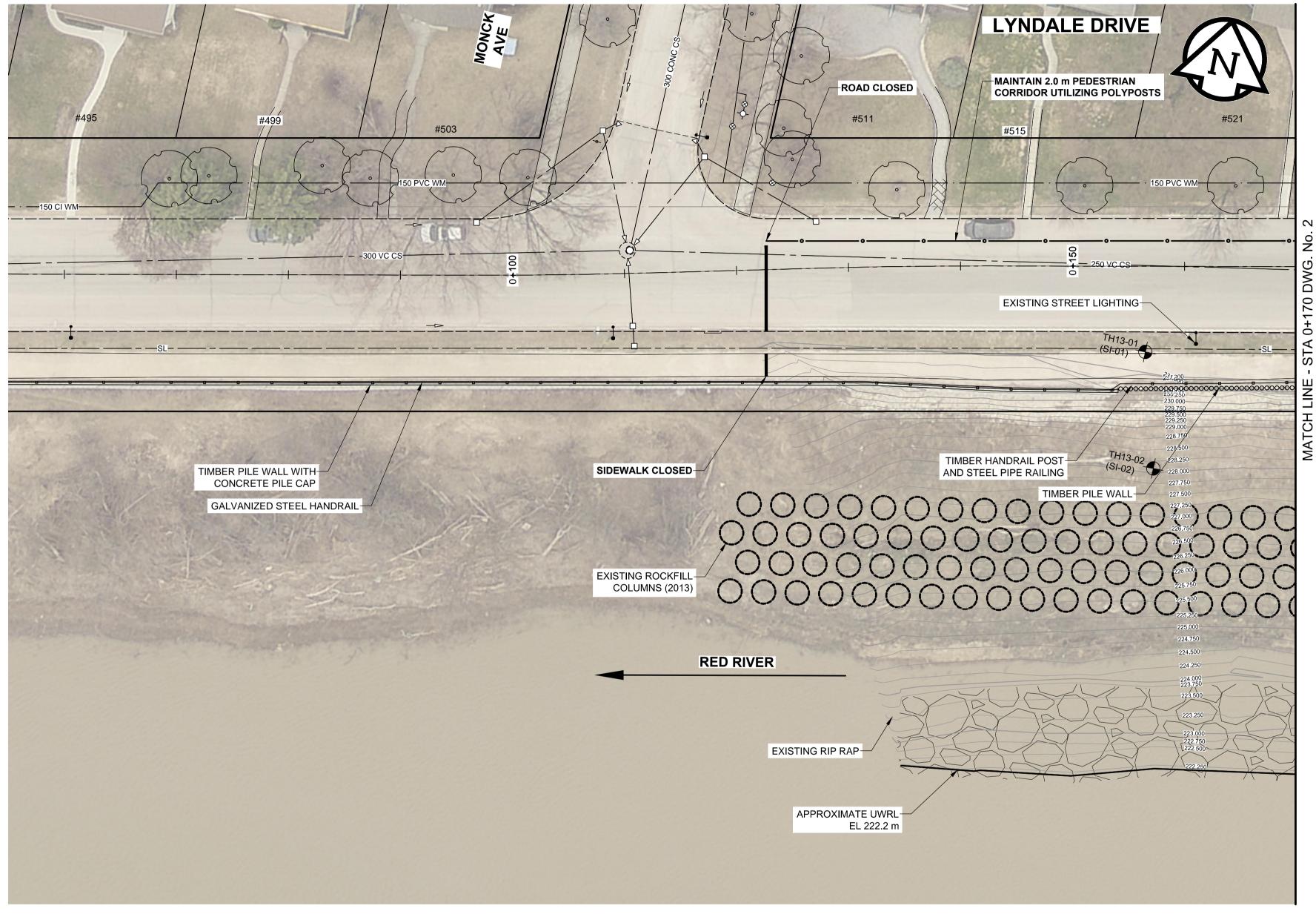
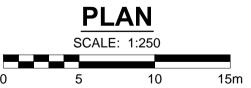
| GEODETIC BENCHMARK-VERTICAL CONTROL POINTS | | | | | | |
|--|--|-----------|--|--|--|--|
| GBM | LOCATION | ELEVATION | | | | |
| 34-004 | Tblt. in 7.6 m Conc. pile, 2.1m N. of line of N. wall of No. 146 Tache St. S. of St. | 229.873m | | | | |

| | 'EY BAR - HORIZONTAL CONTI ROJECT COORDINATES NAD 8 | | |
|---------------|--|-------------|------------|
| CONTROL POINT | LOCATION | NORTHING | EASTING |
| #1 | SURVEY BAR @ NE PL LYNDALE DRIVE AND FERNDALE ST | 5526051.700 | 634554.020 |
| #2 | SURVEY BAR @ NE PL ST LYNDALE DRIVE TACHE ST | 5526110.339 | 634853.484 |
| #3 | SURVEY BAR @ NW PL LYNDALE DRIVE AND GAUVIN ST | 5526113.304 | 635223.804 |





METRIC WHOLE NUMBERS INDICATE MILLIMETRES

| ופח הפ | | ED NUMBERS INDICATE METR | | | | | | | | |
|-------------|------------|--------------------------|------------|----------------|-----------------------|----------|----------|----------------------|------------------|---|
| בום | | GAS | | 0 | MANHOLE | • | | CONCRETE PAVEMENT | | LOCATION A |
| 2012 | -M-·· | MTS HANDWELL/PEDESTAL | | | CATCH BASIN/CATCH PIT | | | CONC SIDEWALK/MEDIAN | | UNDERGROUND |
| 5 | ⊕ — - ⊕ | HYDRO HANDWELL/CABINET | | Δ | CURB INLET WITH BOX | A | | ASPHALT PAVEMENT | | |
| Jose I | | CATV/FIBRE OPTIC | | \odot | TREE | | | PAVING STONE | | SUPR, U/G STRUCTURES |
| ۵ م | · | TRAFFIC SIGNALS/PIT | | ♦ TH-12 | TEST HOLE | | | GRAVEL | A STATE OF STATE | COMMITTEE |
| 5 | | LAND DRAINAGE SEWER | | | PROPERTY LINE | | _=== | RAMP CURB | | NOTE: LOCATION OF UNDERGRO |
| algie | | SANITARY/COMBINED SEWER | | # | SURVEY BAR | | | PLANING/REMOVAL | | AS SHOWN ARE BASED O |
| ב ב | | CB LEAD/SSP/DCP | | × × | FENCE | | | | | INFORMATION AVAILABLE GUARANTEE IS GIVEN THA |
| ÷ | | WATERMAIN | —·— | | BOC/EDGE OF PAVEMENT | | | | | UTILITIES ARE SHOWN OR LOCATIONS ARE EXACT. |
| | | SUBDRAIN | | 33.000 | ELEVATION | 33.333 | | | | EXISTENCE AND EXACT LO |
| ا را ا | $\bigg \}$ | DITCH | - | -0- | TRAFFIC SIGN | | | | | SERVICES MUST BE OBTA INDIVIDUAL UTILITIES BEF |
| <u>۲</u> .۲ | EXISTING | LEGEND - PLAN | NEW | EXISTING | LEGEND - PLAN | NEW | EXISTING | LEGEND - PLAN | NEW | WITH CONSTRUCTION. |

LOCATION APPROVE UNDERGROUND STRUCTURE UPR. U/G STRUCTURES DATE OCATION OF UNDERGROUND STRUCTU S SHOWN ARE BASED ON THE BEST IFORMATION AVAILABLE BUT NO UARANTEE IS GIVEN THAT ALL EXISTIN JTILITIES ARE SHOWN OR THAT THE GIVE OCATIONS ARE EXACT. CONFIRMATION XISTENCE AND EXACT LOCATION OF AL ERVICES MUST BE OBTAINED FROM TH IDIVIDUAL UTILITIES BEFORE PROCEED

| ES | BM ELE | 34-004 V 229.873m | | | m | ļ | | | PF |
|---------------|-----------|-------------------------|----------|-----|----------------|----------|----------------|-------------|-----------------|
| | | | | | m | Morri | SON HER | RSHFIELD |) 3 3 |
| URES | | | | | DESIGNED BY | JGK | CHECKED BY | RPB | 7 |
| NG | | | | | DRAWN BY | DID | APPROVED BY | BWB | ذ [|
| IVEN ON OF | С | ISSUED FOR TENDER | 16/09/29 | JGK | HODOOME | | RELEASED FOR C | ONSTRUCTION | |
| ALL | В | ISSUED FOR FINAL REVIEW | 16/09/13 | JGK | HOR SCALE | 1:250 | | | |
| HE DING | Α | ISSUED FOR 75% REVIEW | 16/08/17 | JGK | VERT SCALE | N/A | _ | | . |
| | No. | REVISIONS | YY/MM/DD | BY | DATE | 16/09/06 | DATE | | |

PROFESSIONAL'S SEAL J.G. KENNEDY Member CONSULTANT FILE NAME

5160047-Lyndale-PP-01.dwg

Winnipeg

THE CITY OF WINNIPEG **PUBLIC WORKS DEPARTMENT**

ENGINEERING DIVISION LYNDALE DRIVE RIVERBANK STABILIZATION

AND ASSOCIATED WORKS

MONCK AVENUE TO GAUVIN STREET **EXISTING CONDITIONS** STA 0+055 TO STA 0+170

TY DRAWING NUMBER RW751-2016-1 32 DRAWING No.

APEGN

Certificate of Authorization MORRISON HERSHFIELD

No. 1736

BID OPPORTUNITY No. 721-2016

SCOPE OF WORK:

A. Riverbank Stabilization (Fall 2016 – March 15, 2017)

- (i) Implement traffic and pedestrian control measures & mobilize. (ii) Construction of temporary access ramp(s) and working platform.
- (iii) Drilling of rockfill column shafts.
- (iv) Supply, placement and compaction of rockfill for rockfill columns.
- (v) Supply and placement of rip rap erosion protection.
- (vi) Removal of temporary access ramp(s) and reshaping of riverbank. (vii) Construction of limestone terrace below elevation 225.00.
- (viii) Installation of riverbank erosion control blanket.
- (ix) Removal of traffic and pedestrian control measures.

B. Riverbank Grading and Trail Construction (Spring 2017 – July 2017)

- (i) Implement traffic and pedestrian control measures.
- (ii) Riverbank grading including demolition of existing wall.
- (iii) Construction of gravel riverbank trail including gabion wall alcoves. (iv) Construction of limestone terrace above elevation 225.00.
- (v) Site restoration, topsoil and plantings.

C. Road and Sidewalk Works (June 19, 2017 – September 1, 2017)

- (i) Removal of existing asphalt pavement and curbs.
- (ii) Milling of existing asphalt pavement.
- (iii) Installation of catch basins, subdrains and sewer service pipe.
- (iv) Curb and gutter installation (100 mm curb height).
- (v) Installation of new street lighting (cables, bases and poles). (vi) Placement of geotextile fabric, subbase material, and base course for sidewalk.
- (vii) Implement pedestrian control measures.
- (viii) Widen existing roadway (excavation, subgrade compaction, geotextile fabric, subbase material and base course).
- (ix) Installation of catchpits and drainage connection pipe.
- (x) Curb and gutter installation (100 mm curb height).
- (xi) Placement of asphalt pavement (Type 1A, 100 mm thick (2 lifts)).
- (xii) Adjustment of existing manholes and appurtenances. (xiii) Placement of asphalt overlay (Type 1A, average thickness 50 mm (1 lift)).
- (xiv) Boulevard restoration (including private approaches and sidewalks) and landscaping.
- (xv) Placement of asphalt pavement for sidewalk (Type 1A, 75 mm thick (1 lift)). Note: Riverbank grading and trail construction must be complete prior to paving the asphalt sidewalk.
- (xvi) Removal of traffic and pedestrian control measures.

TRAFFIC MANAGEMENT:

| Time Frame | Traffic on Lyndale Drive | Pedestrian Access 2 m Pedestrian corridor maintained along existing north qutter | | |
|-----------------------------|--|--|--|--|
| Fall 2016 - March 15, 2017 | Closed between Monck and Gauvin | | | |
| Spring 2017 - June 18, 2017 | Closed between Monck and Gauvin (must re-open for Manitoba Marathon on June 18, 2017) | 2 m Pedestrian corridor maintained along existing north gutter | | |
| June 19 - September 1, 2017 | Closed between Monck and Gauvin (with short term closures of Monck and Gauvin) | 2 m pedestrian corridor maintained along existing north gutter until new sidewalk base course is constructed Pedestrians utilize new sidewa (on base course) until end of construction. | | |

Note: If no Work is occurring for a significant period of time (ie. in the spring of 2017), the Contractor shall open Lyndale Drive to traffic and pedestrians as approved by the Contract Administrator.