

City of   
Yorkton

**CONTROL MONUMENT REPORT**



This document was prepared by Altus Geomatics for use by City of Yorkton staff and contractors working in and for the City of Yorkton. This document is meant to inform readers about the City of Yorkton Transverse Mercator coordinate system, the monument locations, and coordinate establishment. This document does not discuss surveying procedures and best practices, those items are the responsibility of the contractor(s). Altus Geomatics takes no responsibility for the misuse of the information contained within this report.

## CITY OF YORKTON TRANSVERSE MERCATOR COORDINATE SYSTEM (YORKTON2)

The City of Yorkton has established a survey coordinate system to cover the City of Yorkton and surrounding area. The coordinate system is called Yorkton2. The Yorkton2 parameters are located below in Table 1.

<b>LATITUDE OF ORIGIN</b>	49°00'00.00000" N
<b>CENTRAL MERIDIAN</b>	102° 37' 00.00000" W
<b>FALSE NORTHING</b>	0.000 m
<b>FALSE EASTING</b>	30,000.000 m
<b>SCALE FACTOR AT ORIGIN</b>	1.00008090199
<b>ZONE WIDTH</b>	0° 30' 00"

Table 1: Yorkton2 Zone Parameters

A Transverse Mercator map projection was selected for this project because it allows the local coordinates to be derived at ground level. When using GPS surveying equipment, the information contained within Table 1 needs to be created in the software to work in local coordinates.

## CONTROL MONUMENT COORDINATES

After the control monuments were constructed, Altus Geomatics on November 25, 2016 conducted a static GPS survey at each control monument.

MONUMENT ID	NORTHING (m)	EASTING(m)	ELEVATION (m)	DESCRIPTION
<b>BM-01</b>	249180.733	44833.291	503.166	ALUMINUM CAP
<b>BM-02</b>	246974.648	38608.598	511.706	ALUMINUM CAP
<b>BM-03</b>	244691.457	39141.196	513.086	ALUMINUM CAP
<b>BM-04</b>	244661.105	41633.995	504.189	ALUMINUM CAP
<b>BM-05</b>	249127.851	36888.759	515.394	ALUMINUM CAP
<b>BM-06</b>	242589.599	44847.627	504.819	ALUMINUM CAP
<b>BM-07</b>	242623.033	36656.068	513.090	ALUMINUM CAP
<b>BM-08</b>	246868.553	42024.379	501.941	ALUMINUM CAP

\*ELEVATIONS SHOWN ARE REFERENCED TO CGVD28 (HTv2.0 GEOID)



Published City of Yorkton Control Monument Coordinates

Coordinate System Name: Yorkton2  
 Zone Width: 0°30'00.00000"  
 False Easting: 30,000.000  
 Scale Factor at Origin: 1.00008090199  
 False Northing: 0.000  
 Geoid Model: HTV2.0  
 Latitude of Origin: 49°00'00.00000" N  
 Ellipsoid: GRS 1980  
 Central Meridian: 102°37'00.00000" W  
 Vertical Datum: CGVD28



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Revision 1 Job No.: 185909

# STATION DESCRIPTION FORM

ALTUS JOB NUMBER: 185909  
 CLIENT: CITY OF YORKTON

STATION NUMBER: BM-01

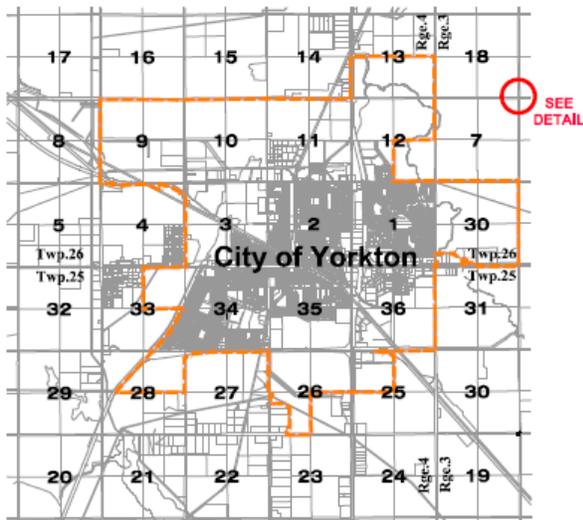
MONUMENT TYPE: ALUMINUM CAP WITH  
 PROTECTIVE COVER

**COORDINATE SYSTEM: YORKTON2**  
 FALSE EASTING: 30,000.000  
 FALSE NORTHING: 0.000  
 LATITUDE OF ORIGIN: 49° 00' 00.00000" N  
 CENTRAL MERIDIAN: 102° 37' 00.00000" W  
 ZONE WIDTH: 0° 30' 00.00000"  
 SCALE FACTOR: AT ORIGIN: 1.00008090199  
 GEOID MODEL: HTv2.0



**YORKTON2 COORDINATES:**  
 NORTHING: 249180.733  
 EASTING: 44833.291  
 ORTHOMETRIC ELEVATION: 503.166

**NAVIGATION COORDINATES:**  
 LATITUDE: 51° 14' 23" N  
 LONGITUDE: 102° 24' 15" W  
 \*FOR NAVIGATIONAL PURPOSES ONLY



Location Description: Adjacent to the S.E. ¼ Sec. 18-26-3 W2M. Located approximately 3m East of the East Boundary S.E. ¼ Sec. 18-26-3 W2M and 25m North of the centerline of the East/West High Grade Gravel Road.

# STATION DESCRIPTION FORM

ALTUS JOB NUMBER: 185909  
 CLIENT: CITY OF YORKTON

STATION NUMBER: BM-02

MONUMENT TYPE: ALUMINUM CAP WITH  
 PROTECTIVE COVER

**COORDINATE SYSTEM: YORKTON2**

FALSE EASTING: 30,000.000  
 FALSE NORTHING: 0.000  
 LATITUDE OF ORIGIN: 49° 00' 00.00000" N  
 CENTRAL MERIDIAN: 102° 37' 00.00000" W  
 ZONE WIDTH: 0° 30' 00.00000"  
 SCALE FACTOR: AT ORIGIN: 1.00008090199  
 GEOID MODEL: HTv2.0

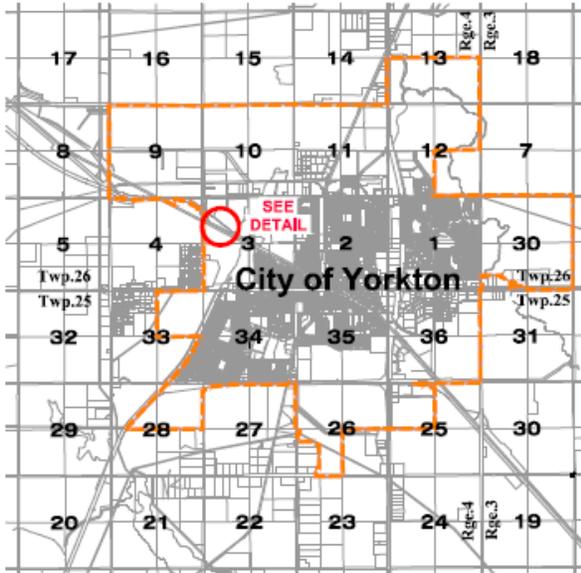


**YORKTON2 COORDINATES:**

NORTHING: 246974.648  
 EASTING: 38608.598  
 ORTHOMETRIC ELEVATION: 511.706

**NAVIGATION COORDINATES:**

LATITUDE: 51° 13' 12" N  
 LONGITUDE: 102° 29' 36" W  
 \*FOR NAVIGATIONAL PURPOSES ONLY



Location Description: Located within the N.W. ¼ Sec. 3-26-4 W2M. Located approximately 0.5m inside the vehicle turnaround, at the old City of Yorkton Information turnaround on Highway 16A.

# STATION DESCRIPTION FORM

ALTUS JOB NUMBER: 185909  
 CLIENT: CITY OF YORKTON

STATION NUMBER: BM-03

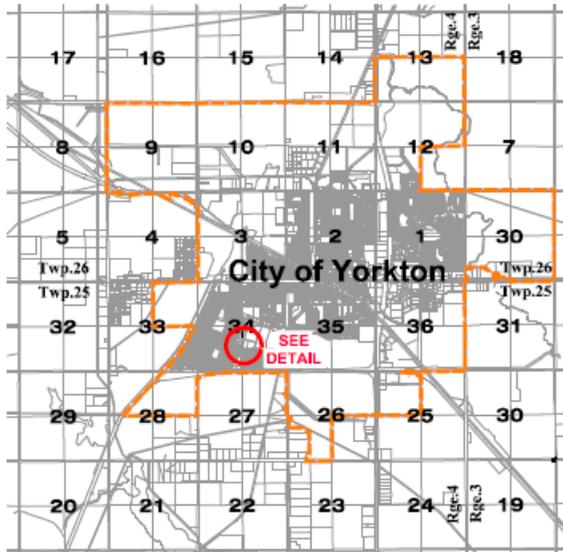
MONUMENT TYPE: ALUMINUM CAP WITH  
 PROTECTIVE COVER

**COORDINATE SYSTEM: YORKTON2**  
 FALSE EASTING: 30,000.000  
 FALSE NORTHING: 0.000  
 LATITUDE OF ORIGIN: 49° 00' 00.00000" N  
 CENTRAL MERIDIAN: 102° 37' 00.00000" W  
 ZONE WIDTH: 0° 30' 00.00000"  
 SCALE FACTOR: AT ORIGIN: 1.00008090199  
 GEOID MODEL: HTv2.0



**YORKTON2 COORDINATES:**  
 NORTHING: 244691.457  
 EASTING: 39141.196  
 ORTHOMETRIC ELEVATION: 513.086

**NAVIGATION COORDINATES:**  
 LATITUDE: 51° 11' 59" N  
 LONGITUDE: 102° 29' 09" W  
 \*FOR NAVIGATIONAL PURPOSES ONLY



Location Description: Located at the intersection of Allan Bay and Allanbrooke Drive. East of the North edge of Allan Bay and approximately 17m East of the centerline of Allanbrooke Drive.

# STATION DESCRIPTION FORM

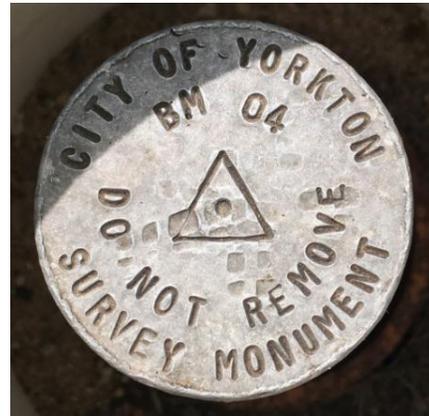
ALTUS JOB NUMBER: 185909  
 CLIENT: CITY OF YORKTON

STATION NUMBER: BM-04

MONUMENT TYPE: ALUMINUM CAP WITH  
 PROTECTIVE COVER

**COORDINATE SYSTEM: YORKTON2**

FALSE EASTING: 30,000.000  
 FALSE NORTHING: 0.000  
 LATITUDE OF ORIGIN: 49° 00' 00.00000" N  
 CENTRAL MERIDIAN: 102° 37' 00.00000" W  
 ZONE WIDTH: 0° 30' 00.00000"  
 SCALE FACTOR: AT ORIGIN: 1.00008090199  
 GEOID MODEL: HTv2.0

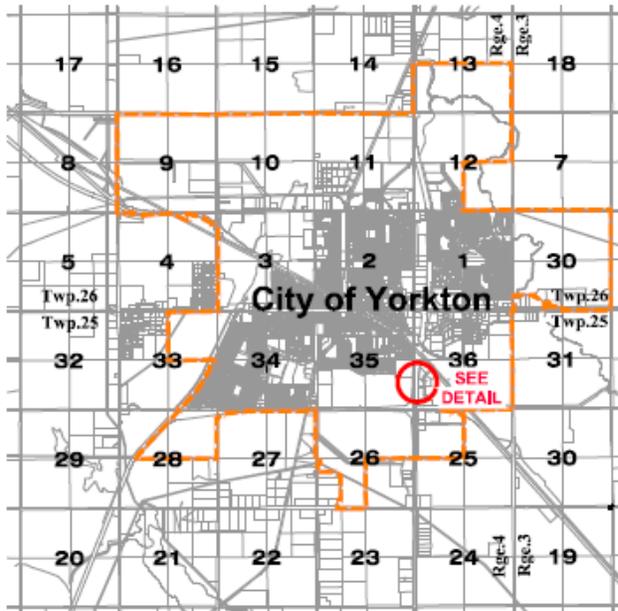


**YORKTON2 COORDINATES:**

NORTHING: 244661.105  
 EASTING: 41633.995  
 ORTHOMETRIC ELEVATION: 504.189

**NAVIGATION COORDINATES:**

LATITUDE: 51° 11' 57" N  
 LONGITUDE: 102° 27' 01" W  
 \*FOR NAVIGATIONAL PURPOSES ONLY



Location Description: Located at the City of Yorkton Tourism Centre adjacent to Highway #9 South. Located approximately 13m south of the centerline of the North entrance, inside the turnaround.

# STATION DESCRIPTION FORM

ALTUS JOB NUMBER: 185909  
 CLIENT: CITY OF YORKTON

STATION NUMBER: BM-05

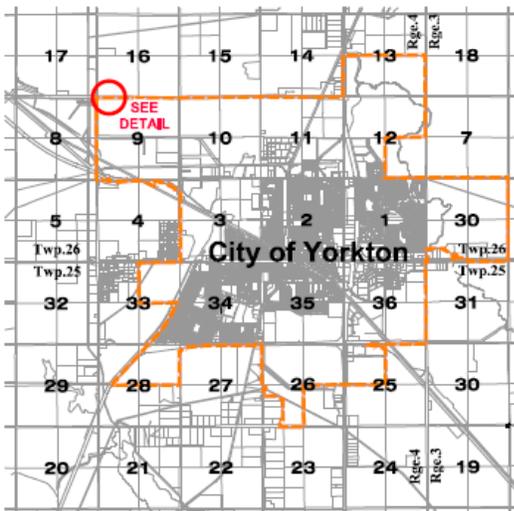
MONUMENT TYPE: ALUMINUM CAP WITH  
 PROTECTIVE COVER

**COORDINATE SYSTEM: YORKTON2**  
 FALSE EASTING: 30,000.000  
 FALSE NORTHING: 0.000  
 LATITUDE OF ORIGIN: 49° 00' 00.00000" N  
 CENTRAL MERIDIAN: 102° 37' 00.00000" W  
 ZONE WIDTH: 0° 30' 00.00000"  
 SCALE FACTOR: AT ORIGIN: 1.00008090199  
 GEOID MODEL: HTv2.0



**YORKTON2 COORDINATES:**  
 NORTHING: 249127.851  
 EASTING: 36888.759  
 ORTHOMETRIC ELEVATION: 515.394

**NAVIGATION COORDINATES:**  
 LATITUDE: 51° 14' 22" N  
 LONGITUDE: 102° 31' 05" W  
 \*FOR NAVIGATIONAL PURPOSES ONLY



Location Description: Adjacent to the N.W. ¼ Sec. 9-26-4 W2M. Located approximately 255m East of the centerline of the North/South Medium Grade Gravel Road, and 14m South of the centerline of the East/West High Grade Gravel Road.

# STATION DESCRIPTION FORM

ALTUS JOB NUMBER: 185909  
 CLIENT: CITY OF YORKTON

STATION NUMBER: BM-06

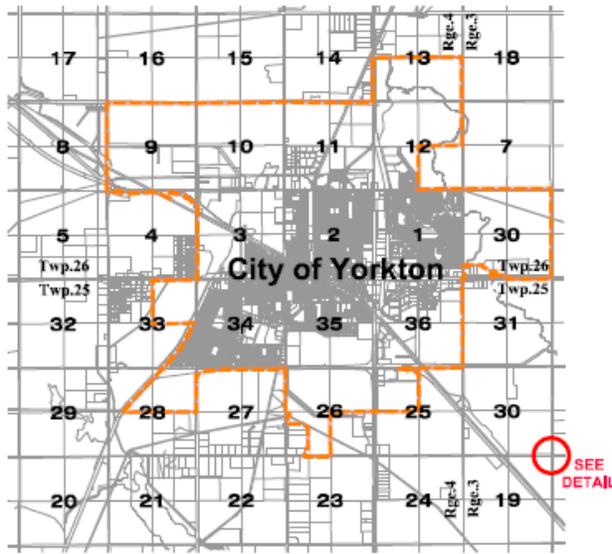
MONUMENT TYPE: ALUMINUM CAP WITH  
 PROTECTIVE COVER

**COORDINATE SYSTEM: YORKTON2**  
 FALSE EASTING: 30,000.000  
 FALSE NORTHING: 0.000  
 LATITUDE OF ORIGIN: 49° 00' 00.00000" N  
 CENTRAL MERIDIAN: 102° 37' 00.00000" W  
 ZONE WIDTH: 0° 30' 00.00000"  
 SCALE FACTOR: AT ORIGIN: 1.00008090199  
 GEOID MODEL: HTv2.0



**YORKTON2 COORDINATES:**  
 NORTHING: 242589.599  
 EASTING: 44847.627  
 ORTHOMETRIC ELEVATION: 504.819

**NAVIGATION COORDINATES:**  
 LATITUDE: 51° 10' 50" N  
 LONGITUDE: 102° 24' 16" W  
 \*FOR NAVIGATIONAL PURPOSES ONLY



Location Description: Adjacent to the N.E. ¼ Sec. 19-25-3 W2M. Located approximately 14m West of the centerline of the North/South Medium Grade Gravel Road and 18m South of the centerline of the East/West Low Grade Gravel Road.

# STATION DESCRIPTION FORM

ALTUS JOB NUMBER: 185909  
CLIENT: CITY OF YORKTON

STATION NUMBER: BM-07

MONUMENT TYPE: ALUMINUM CAP WITH PROTECTIVE COVER

**COORDINATE SYSTEM: YORKTON2**

FALSE EASTING: 30,000.000  
FALSE NORTHING: 0.000  
LATITUDE OF ORIGIN: 49° 00' 00.00000" N  
CENTRAL MERIDIAN: 102° 37' 00.00000" W  
ZONE WIDTH: 0° 30' 00.00000"  
SCALE FACTOR: AT ORIGIN: 1.00008090199  
GEOID MODEL: HTv2.0

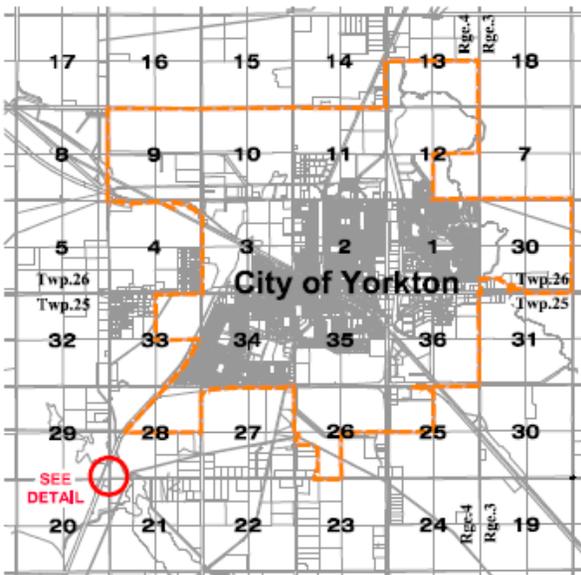


**YORKTON2 COORDINATES:**

NORTHING: 242623.033  
EASTING: 36656.068  
ORTHOMETRIC ELEVATION: 513.090

**NAVIGATION COORDINATES:**

LATITUDE: 51° 10' 52" N  
LONGITUDE: 102° 31' 17" W  
\*FOR NAVIGATIONAL PURPOSES ONLY



Location Description: Located within the S.E. ¼ Sec. 29-25-4 W2M. Located approximately 0.5m outside the vehicle turnaround, at the old City of Yorkton Information turnaround on Highway 10, adjacent to Yorkton Lake Golf Club and the Westshore Greens Trailer Court.

# STATION DESCRIPTION FORM

ALTUS JOB NUMBER: 185909  
 CLIENT: CITY OF YORKTON

STATION NUMBER: BM-08

MONUMENT TYPE: ALUMINUM CAP WITH  
 PROTECTIVE COVER

**COORDINATE SYSTEM: YORKTON2**

FALSE EASTING: 30,000.000  
 FALSE NORTHING: 0.000  
 LATITUDE OF ORIGIN: 49° 00' 00.00000" N  
 CENTRAL MERIDIAN: 102° 37' 00.00000" W  
 ZONE WIDTH: 0° 30' 00.00000"  
 SCALE FACTOR: AT ORIGIN: 1.00008090199  
 GEOID MODEL: HTv2.0

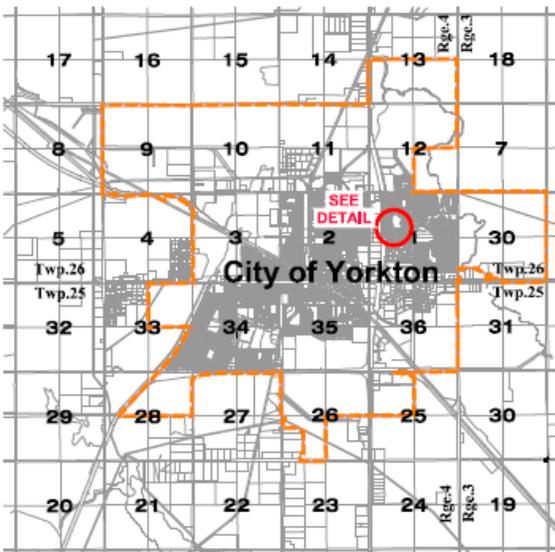


**YORKTON2 COORDINATES:**

NORTHING: 246868.553  
 EASTING: 42024.379  
 ORTHOMETRIC ELEVATION: 501.941

**NAVIGATION COORDINATES:**

LATITUDE: 51° 13' 09" N  
 LONGITUDE: 102° 26' 40" W  
 \*FOR NAVIGATIONAL PURPOSES ONLY



Location Description: Located at the intersection of McBurney Drive and McNeil Crescent.  
 Approximately 12m North of the centerline of McBurney Drive.