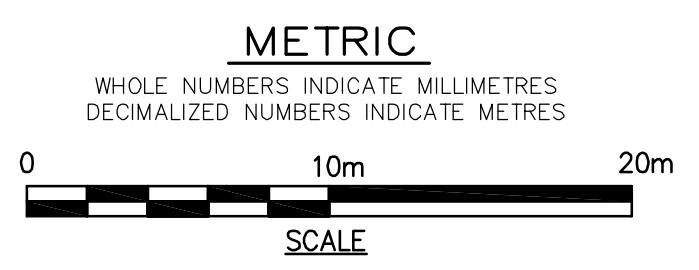


- CONSTRUCTION NOTES**
1. EXPOSE WATERMAIN CONNECTIONS AND CONFIRM INVERTS PRIOR TO CONSTRUCTION.
 2. INSTALL WATERMAIN BY TRENCHLESS METHODS.
 3. ALL MATERIALS SHALL CONFORM TO THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS.
 4. MINIMUM COVER TO TOP OF PROPOSED WATERMAIN SHALL BE THE DEEPER OF 2.5m FROM STREET CENTERLINE OR 2.5m FROM STREET GUTTER LINE.
 5. INSTALL ALL HYDRANTS WITH FLANGE ELEVATION 50mm-150mm ABOVE FINISHED GRADE.
 6. REPLACE ALL EXISTING LEAD SERVICES FROM THE PROPOSED WATERMAIN TO PROPERTY LINE.
 7. EXCEPT AS NOTED BELOW, NOTIFY ALL AFFECTED RESIDENTS AND BUSINESSES 24 HOURS IN ADVANCE OF ANY WATER SHUTDOWN OR DISRUPTION OF SERVICE. NOTIFICATION TO BUSINESSES TO ALSO BE GIVEN ON THE PREVIOUS BUSINESS DAY. NOTIFICATION OF MULTI FAMILY RESIDENTIAL COMPLEXES TO BE PROVIDED AND MINIMUM 2 BUSINESS DAYS PRIOR TO ANY WATER SHUTDOWN OR DISRUPTION OF SERVICE.
 8. LOCATION OF WATER SERVICES SHOWN ON DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD LOCATE ALL WATER SERVICES PRIOR TO CONSTRUCTION.
 9. ALL VALVES SHALL BE BLACK TOP (CLOCKWISE TO CLOSE).
 10. BACKFILL UNDER PEMBINA HWY PAVEMENT SHALL BE CLASS 1 BACKFILL. BACKFILL IN BOULEVARDS MORE THAN 1.0m FROM ANY PAVEMENT OR SIDEWALK EDGE SHALL BE CLASS 5. ALL OTHER BACKFILL SHALL BE CLASS 3 BACKFILL.

APEGM
 Certificate of Authorization
 AECOM Canada Ltd.
 Original dated on:
 No. 4671 Date: 2009/04/29



| ADDRESS | NATURE OF SERVICE | SIZE | MATERIAL | DISTANCE SC TO | POSITION OF SC (curb stop) | POSITION OF CC (corp) | COMMENTS: |
|----------------------|-------------------|--------|----------|----------------|----------------------------|--------------------------|-----------|
| 2175 PEMBINA HIGHWAY | COMMERCIAL | 150 mm | PVC | 33.6 m | PROPERTY | Long: 27.8 m Short: S | |

| EXISTING | LEGEND - PLAN | PROPOSED | EXISTING | LEGEND - PLAN | PROPOSED | EXISTING | LEGEND - PROFILE | PROPOSED |
|--------------|---------------------|--------------|-------------------|---------------|---------------------|-----------|------------------|----------|
| 150 mm W.M. | WATERMAIN | 150 mm W.M. | HYDRO TELEPHONE | 150 mm W.M. | WATERMAIN | HYDRANT | | |
| 300mm L.D.S. | LAND DRAINAGE SEWER | 300mm L.D.S. | CONCRETE ASPHALT | 300mm L.D.S. | LAND DRAINAGE SEWER | VALVE | | |
| 250mm W.W.S. | WASTEWATER SEWER | 250mm W.W.S. | PROPERTY LINE | 250mm W.W.S. | WASTE WATER SEWER | Q PROFILE | | |
| | MANHOLE | | SURVEY BAR | | | | | |
| | CATCH BASIN | | CURB STOP | | | | | |
| | CURB INLET | | TREE | | | | | |
| | JUNCTIONS | | ANODE | | | | | |
| | CULVERT | | CONCRETE SIDEWALK | | | | | |
| | GAS | | FENCE | | | | | |

LOCATION APPROVED UNDERGROUND STRUCTURES

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.

| B.M. | ELEV. |
|--|-------|
| 76+023.5 E Cor. Pembina Hwy. & Markham Rd. T81 In E. Conc. | 220.0 |
| 76+023.5 E Cor. Pembina Hwy. & Markham Rd. T81 In E. Conc. | 220.0 |
| 76+023.5 E Cor. Pembina Hwy. & Markham Rd. T81 In E. Conc. | 220.0 |

AECOM

DESIGNED BY: ADB
 CHECKED BY: GSK
 DRAWN BY: GDL
 APPROVED BY: KWF
 HOR. SCALE: 1:250
 VERTICAL: 1:50
 RELEASED FOR CONSTRUCTION BY: K. ZUREK
 DATE: 2009/03/20
 DATE: 09/04/29

ENGINEER'S SEAL
 ORIGINAL SIGNED BY
K.W. FITCHETT
 09/04/29
 REGISTERED PROFESSIONAL ENGINEER
 CONSULTANT DRAWING NO. 111272-C05

THE CITY OF WINNIPEG
 Winnipeg WATER AND WASTE DEPARTMENT

2009 WATERMAIN RENEWALS CONTRACT 7

PEMBINA HIGHWAY
 MARKHAM ROAD TO THATCHER DRIVE
 STA 2+30 TO STA 4+00

SHEET 5 OF 9
 CITY DRAWING NUMBER D-11747