

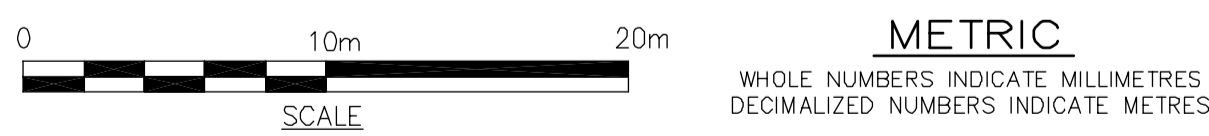
**APECM**  
 Certificate of Authorization  
 Earth Tech Canada Inc.  
 No. 730 Expiry: April 30, 2004

- 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 2.5m FROM STREET CENTERLINE.
  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. NOTIFY ALL AFFECTED RESIDENTS AND BUSINESSES 24 HOURS. IN ADVANCE OF ANY WATER SHUTDOWN OR DISRUPTION OF SERVICE.
  8. LOCATION OF PREVIOUS WATERMAIN BREAKS SHOWN THUS @ IS APPROXIMATE AND FOR INFORMATION ONLY. NO GUARANTEE IS GIVEN TO THE COMPLETENESS OR ACCURACY OF THIS INFORMATION.
  9. LOCATION OF WATER SERVICES SHOWN ON DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD LOCATE ALL WATER SERVICES PRIOR TO CONSTRUCTION.
  10. ALL VALVES SHALL BE RED TOP (COUNTER CLOCKWISE TO CLOSE).
  11. BACKFILL UNDER OR WITHIN 1.0m OF PAVEMENTS, INCLUDING SIDEWALKS SHALL BE CLASS 3 BACKFILL EXCEPT AS NOTED. BACKFILL IN BOULEVARDS SHALL BE CLASS 5 BACKFILL.

ADDRESS/NATURE OF SERVICES	SIZE/MATERIAL	DIST. TO PROP.	POSITION OF S.C. (curb stop)	POSITION OF C.C. (corp)	COMMENTS:
661 GREENE AV RESIDENTIAL	COPPER 19 mm	0.3 m	Long: 1.7 m E of WL HOUSE Short: 1.7 m E of WL HOUSE	Long: 5.6m W of HYD Short: 5.6m W of HYD	
665 GREENE AV RESIDENTIAL	COPPER 19 mm	0.3 m	Long: 4.8 m E of WL HOUSE Short: 4.8 m E of WL HOUSE	Long: 13.9 m E of HYD Short: 13.9 m E of HYD	
669 GREENE AV RESIDENTIAL	COPPER 19 mm	0.3 m	Long: 3.7 m E of WL HOUSE Short: 3.7 m E of WL HOUSE	Long: 31.4 m E of HYD Short: 31.4 m E of HYD	
670 GREENE AV RESIDENTIAL	COPPER 19 mm	0.3 m	Long: 6.8 m E of WL HOUSE Short: 6.8 m E of WL HOUSE	Long: 6.6 m W of HYD Short: 6.6 m W of HYD	
673 GREENE AV RESIDENTIAL	COPPER 19 mm	0.3 m	Long: 5.8 m E of WL HOUSE Short: 5.8 m E of WL HOUSE	Long: 49.4 m E of HYD Short: 49.4 m E of HYD	
674 GREENE AV RESIDENTIAL	COPPER 19 mm	0.3 m	Long: 3.0 m E of WL HOUSE Short: 3.0 m E of WL HOUSE	Long: 5.8 m E of HYD Short: 5.8 m E of HYD	

ADDRESS/NATURE OF SERVICES	SIZE/MATERIAL	DIST. TO PROP.	POSITION OF S.C. (curb stop)	POSITION OF C.C. (corp)	COMMENTS:
677 GREENE AV RESIDENTIAL	COPPER 19 mm	0.3 m	Long: 4.0 m W of EL HOUSE Short: 4.0 m W of EL HOUSE	Long: 66.4 m W of HYD Short: 66.4 m W of HYD	
678 GREENE AV RESIDENTIAL	COPPER 19 mm	0.3 m	Long: 6.2 m E of WL HOUSE Short: 6.2 m E of WL HOUSE	Long: 23.6 m E of HYD Short: 23.6 m E of HYD	
681 GREENE AV RESIDENTIAL	COPPER 19 mm	0.3 m	Long: 3.0 m E of WL HOUSE Short: 3.0 m E of WL HOUSE	Long: 55.9 m W of HYD Short: 55.9 m W of HYD	
682 GREENE AV RESIDENTIAL	COPPER 19 mm	0.3 m	Long: 5.2 m E of WL HOUSE Short: 5.2 m E of WL HOUSE	Long: 37.2 m E of HYD Short: 37.2 m E of HYD	
686 GREENE AV RESIDENTIAL	COPPER 19 mm	0.3 m	Long: 5.5 m E of WL HOUSE Short: 5.5 m E of WL HOUSE	Long: 52.7 m E of HYD Short: 52.7 m E of HYD	RENEW TO PROPERTY
687 GREENE AV RESIDENTIAL	COPPER 19 mm	0.3 m	Long: 1.3 m E of WL HOUSE Short: 1.3 m E of WL HOUSE	Long: 39.9 m W of HYD Short: 39.9 m W of HYD	
690 GREENE AV RESIDENTIAL	COPPER 19 mm	0.3 m	Long: 5.0 m E of WL HOUSE Short: 5.0 m E of WL HOUSE	Long: 67.7 m E of HYD Short: 67.7 m E of HYD	

ADDRESS/NATURE OF SERVICES	SIZE/MATERIAL	DIST. TO PROP.	POSITION OF S.C. (curb stop)	POSITION OF C.C. (corp)	COMMENTS:
692 GREENE AV RESIDENTIAL	COPPER 19 mm	0.3 m	Long: 3.3 m E of WL HOUSE Short: 3.3 m E of WL HOUSE	Long: 55.0 m W of HYD Short: 55.0 m W of HYD	
694 GREENE AV RESIDENTIAL	COPPER 19 mm	0.3 m	Long: 4.8 m E of WL HOUSE Short: 4.8 m E of WL HOUSE	Long: 37.5 m W of HYD Short: 37.5 m W of HYD	
693 GREENE AV RESIDENTIAL	COPPER 19 mm	0.3 m	Long: 6.0 m W of EL HOUSE Short: 6.0 m W of EL HOUSE	Long: 15.5 m W of HYD Short: 15.5 m W of HYD	
694 GREENE AV RESIDENTIAL	COPPER 19 mm	0.3 m	Long: 4.8 m W of WL HOUSE Short: 4.8 m W of WL HOUSE	Long: 37.5 m W of HYD Short: 37.5 m W of HYD	
696 GREENE AV RESIDENTIAL	COPPER 19 mm	0.3 m	Long: 4.4 m E of WL HOUSE Short: 4.4 m E of WL HOUSE	Long: 22.4 m W of HYD Short: 22.4 m W of HYD	
698 GREENE AV RESIDENTIAL	COPPER 19 mm	0.3 m	Long: 3.5 m E of WL HOUSE Short: 3.5 m E of WL HOUSE	Long: 8.5 m W of HYD Short: 8.5 m W of HYD	
697 GREENE AV RESIDENTIAL	COPPER 19 mm	0.3 m	Long: 3.7 m E of WL HOUSE Short: 3.7 m E of WL HOUSE	Long: 3.7 m W of HYD Short: 3.7 m W of HYD	



EXISTING		LEGEND - PLAN		PROPOSED		EXISTING		LEGEND - PROFILE		PROPOSED	
	150 mm W.M.		WATERMAIN		HYDRANT		150 mm W.M.		HYDRANT		150 mm W.M.
	VALVE		VALVE		HYDRANT		VALVE		HYDRANT		VALVE
	LAND DRAINAGE SEWER		WASTEWATER SEWER		MANHOLE		CATCH BASIN		CURB INLET		JUNCTIONS
	CULVERT		GAS		CONCRETE		PROPERTY LINE		SURVEY BAR		CURB STOP
	TREE		ANODE		CONCRETE SIDEWALK		FENCE		TREE		ANODE

**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. 12-008A RALEIGH ST. W. SIDE, CITY HYDRO POWER TRANSMISSION LINE 5, OF LINDEN AVE., TBL1, IN CENTER OF E. SIDE OF S.E. CONC. FOOTING OF HYDRO TOWER NO. 672, S.L.V. TRANSMISSION LINE

ELEV. 230.981

DESIGNED BY GSK CHECKED BY GSK

DRAWN BY GDL APPROVED BY

HOR. SCALE: 1:250 VERTICAL SCALE: 1:50

RELEASSED FOR CONSTRUCTION BY: K.R. ZUREK

ISSUED FOR TENDER 2004/4/27 GSK

NO. REVISIONS DATE BY

2004/03/01 DATE APRIL 27, 2004

**EARTH TECH**

atyc INTERNATIONAL LTD. COMPANY  
 Earth Tech (Canada) Inc. Winnipeg, Manitoba 204.477.5381

ENGINEER'S SEAL

ORIGINAL SIGNED BY J. E. HUTCHISON 2004/04/27

CONSULTANT DRAWING NO. 76531-C19

**THE CITY OF WINNIPEG**  
 WATER AND WASTE DEPARTMENT

**WATERMAIN RENEWALS**  
 CONTRACT No. 5

137m WEST OF RALEIGH STREET TO RALEIGH STREET

SHEET 19 OF 19

CITY DRAWING NUMBER D-8544