



- 1.0 CONSTRUCTION NOTES**
- ALL CONSTRUCTION TO CONFORM WITH APPROPRIATE CITY OF WINNIPEG CONSTRUCTION SPECIFICATIONS.
  - CONTRACTOR TO OBTAIN ALL PERMITS.
  - CONTRACTOR TO CLEAR UTILITIES BEFORE EXCAVATING.
  - AUGER UNDER STREET PAVEMENT.
  - BACKFILL ALL TRENCHES IN PARKING LOTS WITH GRANULAR MATERIALS.
  - BACKFILL IN LANDSCAPED AREAS TO BE CLASS 5. TO CITY OF WINNIPEG SPECIFICATIONS
  - CONFIRM ALL DIMENSIONS BEFORE STARTING
- 8. EXISTING MATERIALS**
- WWS AND LDS: SDR-35  
 WM: COPPER  
 CATCH BASINS: TO CITY SPEC

- 2.0 DRAINAGE DESIGN NOTES**
- RATIONAL FORMULA WAS USED.  
 $Q = CIA$  FOR 5 YEAR STORM  $I = 4.31$  1N/HR  $I = \frac{47.2}{(t+8)^{.28}}$   
 $t = 10$  MINUTES  
 $A=0.864AC$
  - FOR 5 YEAR STORM  
 $Q = CIA$  FOR 25 YEAR STORM  $I = 6.08$  1N/HR  $I = \frac{72.5}{(t+9)^{.842}}$   
 $A=0.864AC$
  - MAXIMUM ALLOWABLE RUNOFF COEFFICIENT: 0.55
  - CALCULATED RUNOFF COEFFICIENT 0.75
  - MAXIMUM ALLOWABLE CFS RUNOFF FOR 5 YEAR STORM IS 1,117 CFS  
 ORIFICE SIZE REQUIRED 3.0" (75mm)
  - MAXIMUM ALLOWABLE RUNOFF FOR 25 YEAR STORM IS 1.57 CFS
  - STORMWATER MANAGEMENT  
 PERVIOUS AREA 0.389 AC  
 IMPERVIOUS AREA 0.475 AC  
 SITE STORAGE REQUIRED C.F.  
 SITE STORAGE AVAILABLE C.F.

- 3.0 SEWER & WATER REQUIREMENT**
- FROM MECHANICAL DRAWINGS M1.1
- ROOF DRAIN, 66 GPM, 150 PIPE REQUIRED @ 1.0% GRADE
  - 50 WATER, SEE FUTURE COUNT FOR WATER METER SIZE
  - 150 WWS REQUIRED @ 1.0% MIN GRADE
- AVERAGE DAILY SEWAGE FLOW 1150 SM X 5L/SM = 5750L/DAY  
 = 3.99L/MIN  
 PEAK FLOW =  $\frac{3.99 \times 6.0(PF)}{60} = 0.39L/SEC$
- 4.0 MISCELLANEOUS NOTES**
- TOPOGRAPHIC SURVEY BY STEVENS & PHILLIPS
  - EXISTING UTILITY INFORMATION COMPILED FROM & GEO INFO AND SURVEYER'S DRAWING & GEO DRAWING
  - GEODETIC BENCH MARK \_\_\_\_\_ ELEVATION \_\_\_\_\_
  - SECONDARY BENCH MARK TOP OF FIRE HYDRANT AS SHOWN ELEVATION 231.99
  - SEE MLS DRAWINGS FOR LEGAL PLAN AND TOPO SURVEY
  - COORDINATE WITH STRUCTURAL ELECTRICAL ARCHITECTURAL SITE PLAN & MECHANICAL DRAWINGS

SYMBOL	DESCRIPTION
○	RECIRCULATING WATER CONTROL POINT
○	WATERMETER
○	HYDRANT
○	VALVE
○	STORM SEWER
○	SANITARY SEWER
○	MANHOLE
○	CATCH BASIN
○	CURB INLET
○	JUNCTIONS
○	CULVERT
○	PROPERTY LINE
○	SURVEY BAR
○	SERVICE VALVE
○	SIDEWALK RAMP
○	RIDGE
○	ELEVATION (50.00)
○	DRAINAGE FLOW
○	EXISTING LEGEND-PLAN
○	PROPOSED

ISSUED FOR ADDENDUM 2: APRIL 27, 2016 R1  
 ISSUED FOR CONSTRUCTION: MARCH 28, 2016 R0

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SEE PHILLIPS & STEVENS TOPO SURVEY FOR CONTOURS & LEGEND  
 1201 ARCHIBALD ST.  
 WINDSOR PARK LIBRARY  
 CIVIL SITE PLAN

SCALE 1:300



PEGM  
 Certificate of Authorization  
 MEC CONSULTING  
 No. 4438 Date: 2016-03-22

