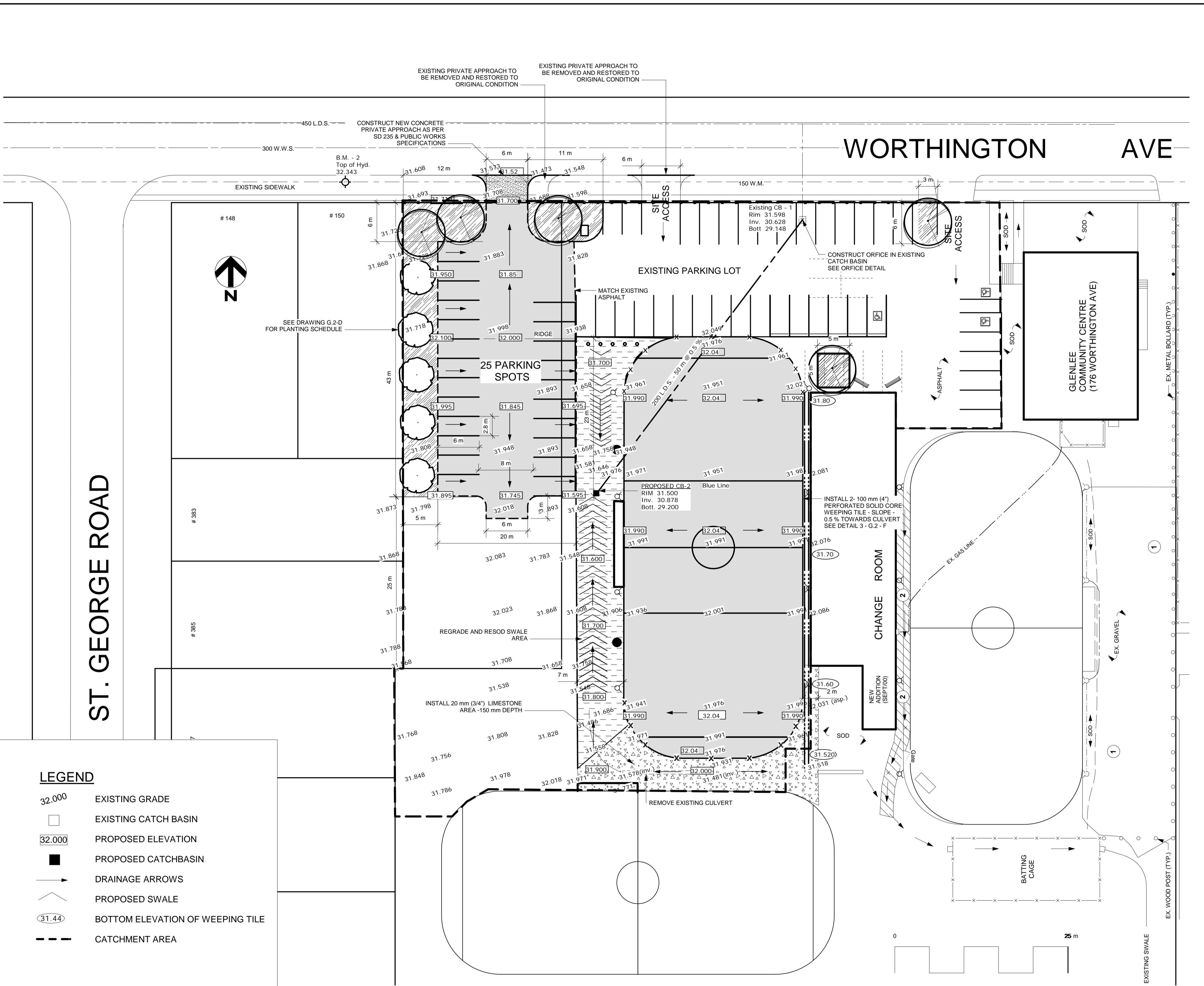
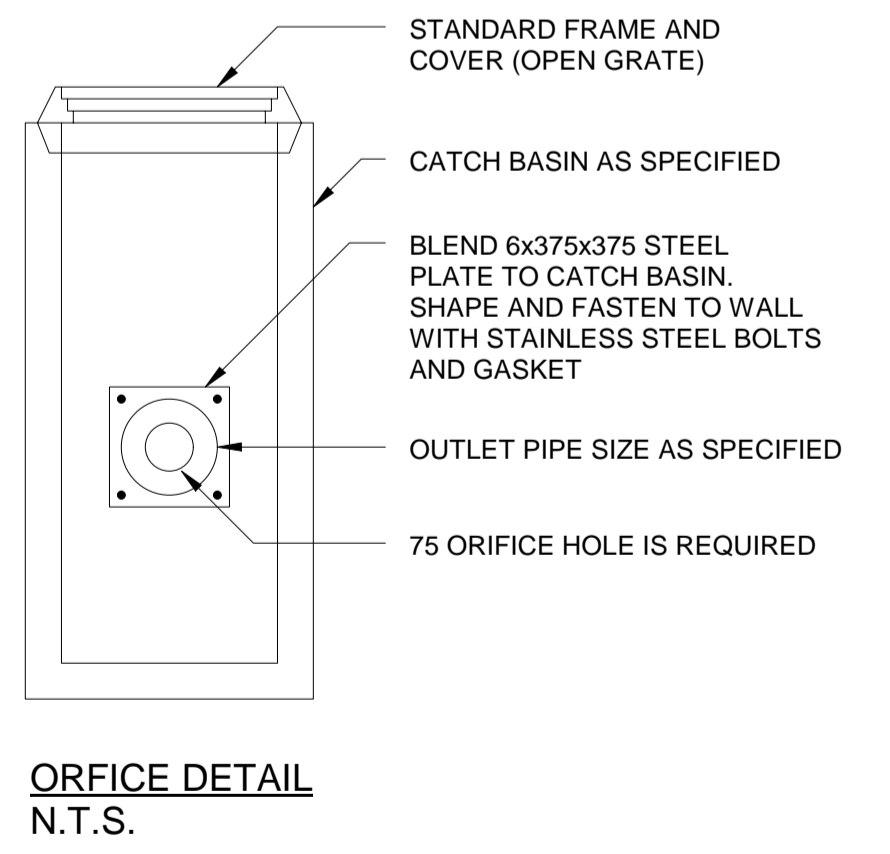


**CONSTRUCTION NOTES:**

- 1.) THIS SPECIFICATION WILL SUPPLEMENT THE CITY OF WINNIPEG'S STANDARD CONSTRUCTION SPECIFICATION CW 3170 - R3
- 2.) THE CONTRACTOR SHALL EXCAVATE EXISTING IN-SITE MATERIAL WITHIN THE PARKING LOT AREAS IDENTIFIED ON THE CONSTRUCTION DRAWINGS TO THE REQUIRED DEPTH TO ALLOW FOR THE SPECIFIED COMPACTED THICKNESS OF BASE AND ASPHALT
- 3.) ALL EXCESS EXCAVATED MATERIAL WILL BE REMOVED, HAULED AND DISPOSED OFF-SITE TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR.
- 4.) SITE GRADING WILL BE COMPLETED WITHIN THE LIMITS INDICATED AND TO THE DESIGN ELEVATIONS AND GRADIENTS SHOWN ON THE CONSTRUCTION DRAWINGS
- 5.) THE DESIGN GRADIENT FOR ALL AREAS WILL BE CONSIDERED TO BE STRAIGHT GRADE BETWEEN THE DESIGN ELEVATION SHOWN
- 6.) ELEVATIONS SHOWN ON THE CONSTRUCTION DRAWINGS ARE TO BE FINISHED GRADE (I.E. TOP OF ASPHALT AND SOD)
- 7.) ALL PLANS TO BE APPROVED BY THE CITY OF WINNIPEG WATER AND WASTE AND PUBLIC WORKS DEPARTMENTS.
- 8.) ALL GRADES TO BE CONFIRMED WITH CITY OF WINNIPEG PRIOR TO CONSTRUCTION
- 9.) DETERMINE LOCATION OF ALL UNDERGROUND UTILITIES AND OBTAIN CLEARANCES PRIOR TO CONSTRUCTION. UNDERGROUND INFORMATION IS BASED ON THE BEST INFORMATION AVAILABLE. THE CITY OF WINNIPEG MAKES NO GUARANTEE TO THE CORRECTNESS OF THE INFORMATION.
- 10.) CONTRACTOR RESPONSIBLE TO CLEAN UP SITE AFTER CONSTRUCTION. THE CONTRACTOR SHALL RESTORE ALL AREAS OF THE SITE BEYOND THE ESTABLISHED LIMIT OF WORK TO AS GOOD OR BETTER THAN THE ORIGINAL CONDITION.
- 11.) ALL ELEVATIONS BASED UPON GEODETIC ELEVATIONS. ADD 200.00 FOR ALL ELEVATIONS.

- 1.0 CONSTRUCTION NOTES**
1. ALL CONSTRUCTION TO CONFORM WITH APPROPRIATE CITY OF WINNIPEG CONSTRUCTION SPECIFICATIONS.
  2. CONTRACTOR TO OBTAIN ALL PERMITS.
  3. CONTRACTOR TO CLEAR UTILITIES BEFORE EXCAVATING.
  4. AUGER UNDER STREET PAVEMENT.
  5. BACKFILL ALL TRENCHES IN PARKING LOTS WITH GRANULAR FILL.
  6. BACKFILL IN LANDSCAPED AREAS TO BE CLASS FIVE.
- 2.0 DRAINAGE DESIGN NOTES**
1. RATIONAL FORMULA WAS USED:  
 $Q = CIA$  FOR FIVE YEAR STORM  
 CATCHMENT AREA (A) = 6000SM + 1.48AC  
 $t = 20$  MINUTES  
 $i = 3.0$  IN/HR  
 $i = 47.2$   
 $(R = 0)$
  2. ASSUMED ALLOWABLE RUNOFF COEFFICIENT: C = 0.35  
 MAXIMUM ALLOWABLE OUTFLOW: 1.5 CFS (PEAK FLOW)
  3. CALCULATED RUNOFF COEFFICIENT FOR CATCHMENT AREA IS 0.55  
 (REFER TO RUNOFF CALCULATION TABLE)  
 ORFICE SIZE REQUIRED IS 75 mm (MINIMUM SIZE)
  4. ALL STORAGE CATCHMENT AREAS ARE CALCULATED TO CONTAIN A 25 YEAR STORM.
- | RUNOFF COEFFICIENT TABLE |         |      |          |
|--------------------------|---------|------|----------|
| SURFACE                  | AREA    | C    | FRACTION |
| PAVEMENT                 | 3500 SM | 0.90 | 0.52     |
| LANDSCAPING              | 2500 SM | 0.10 | 0.01     |
|                          | 6000 SM |      | 0.56     |
- AVERAGE WEIGHTED C = 0.55 (ROUND OFF)
- 3.0 MISCELLANEOUS NOTES**
1. TOPGRAPHIC SURVEY BY PUBLIC WORKS
  2. EXISTING UTILITY INFORMATION COMPILED FROM WATER & WASTE GEO ENGINEERING DRAWING.
  3. GEODETIC BENCH MARK 62-001 ELEVATION 232.121 METERS.
  4. SECONDARY BENCH MARK NO #2 - TOP OF HYDRANT AS SHOWN 232.343 METERS.



**LEGEND**

32.000	EXISTING GRADE
□	EXISTING CATCH BASIN
32.000	PROPOSED ELEVATION
■	PROPOSED CATCHBASIN
→	DRAINAGE ARROWS
—	PROPOSED SWALE
31.44	BOTTOM ELEVATION OF WEEPING TILE
- - -	CATCHMENT AREA

WATERMAIN		HYDRO		WATERMAIN	
EXISTING	LEGEND - PLAN	EXISTING	LEGEND - PLAN	EXISTING	LEGEND - PROFILE
	HYDRANT		M.T.S.		150mm W.W.
	VALVE		CONCRETE		300mm L.D.S.
	LAND DRAINAGE SEWER		ASPHALT		250mm W.W.S.
	WASTE WATER SEWER		PROPERTY LINE		300mm L.D.S.
	MANHOLE		SURVEY BAR		250mm W.W.S.
	CATCH BASIN		CURB STOP		
	CURB INLET		C.B. LEAD		
			SIDEWALK		
			SIDEWALK RAMP		
			ELEVATIONS		
			GAS		

**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. G.B.M. - 62-001 232.121

NO.	REVISIONS	DATE	BY

THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION PURPOSES UNTIL SIGNED BELOW.

THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND OTHER DATA ON SITE AND REPORT ANY DISCREPANCIES TO THE CONTRACT ADMINISTRATOR.

FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DIMENSIONS.

DESIGNED BY	CHECKED BY	RELEASED FOR CONSTRUCTION
J.F.	J.K.	

DRAWN BY	APPROVED BY	DATE
J.F.	J.K.	

HORI. SCALE 1:300  
 VERT. SCALE  
 DATE July 2006

ENGINEER'S SEAL

CONSULTANT DRAWING (016178)

**THE CITY OF WINNIPEG**  
 Planning, Property and Development Department  
 Planning and Land Use Division  
 Unit 15 - 30 Fort Street, Winnipeg, Manitoba R3C 4X5

**DRAWING TITLE**  
 Glenlee Community Center  
 Grading and Land Drainage Plan  
 176 Worthington Avenue

CAD DRAWING NO. SHEET 2 OF 4 DRAWING NO. G.2 - E-R1