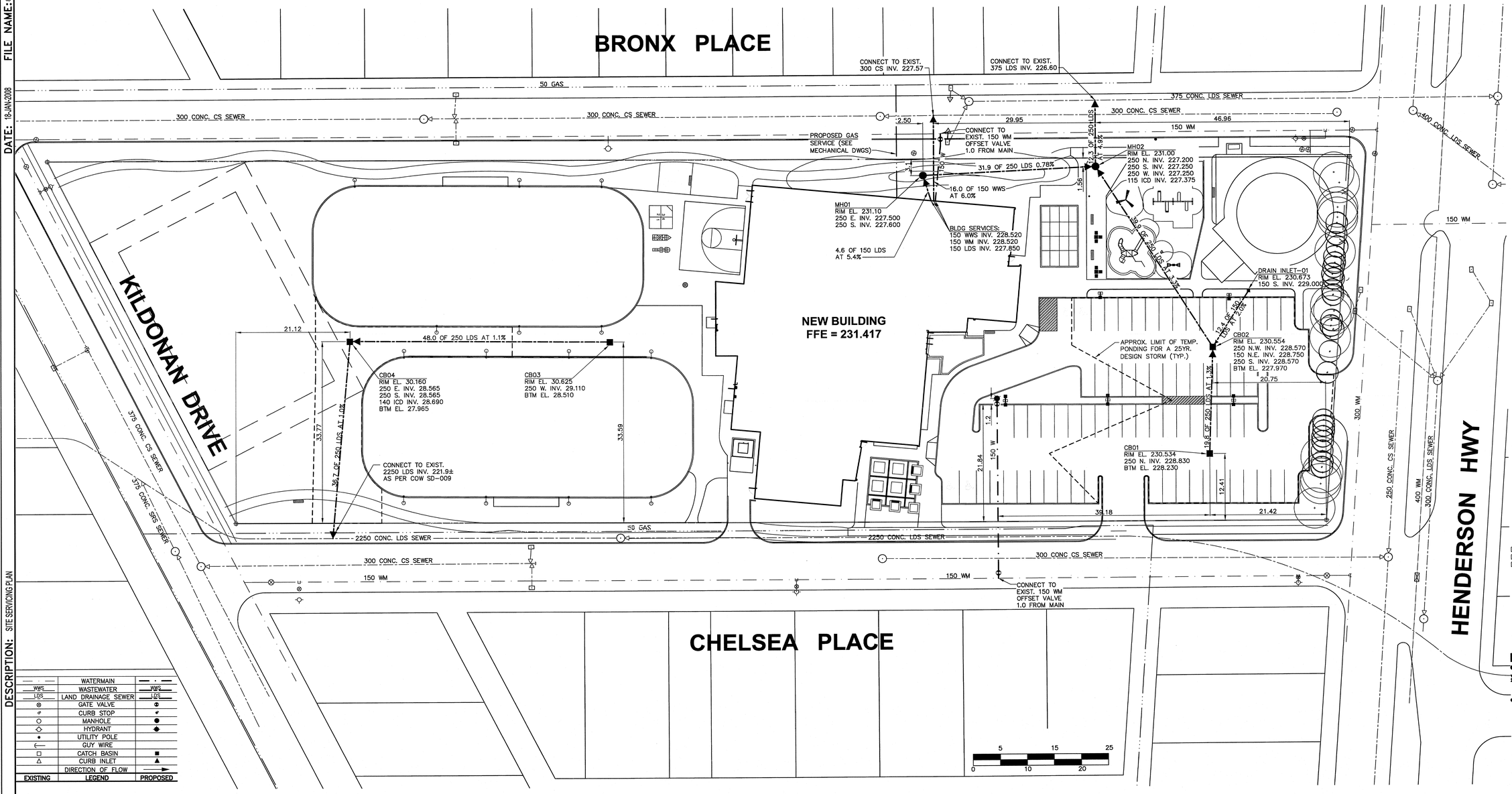
DATE: 18-JAN-2008 FILE NAME: 832-2007_DRAWING_C-2.0-R4

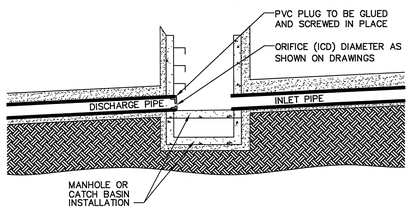
DESCRIPTION: SITE SERVICING PLAN

PROJECT No: 832-2007

ADDRESS: 131 CHELSEA PLACE, WINNIPEG, MANITOBA



EXISTING	LEGEND	PROPOSED
— —	WATERMAIN	— · —
WWS	WASTEWATER	WWS
LDS	LAND DRAINAGE SEWER	LDS
⊗	GATE VALVE	⊕
⊄	CURB STOP	⊄
○	MANHOLE	●
◇	HYDRANT	◆
•	UTILITY POLE	
←—	GUY WIRE	
□	CATCH BASIN	■
△	CURB INLET	▲
	DIRECTION OF FLOW	→



STORMWATER MANAGEMENT – INLET CONTROL DEVICE DETAIL

STORM WATER DISCHARGE CRITERIA

(REFER TO DWG. L-7 AND L-8 FOR GRADING PLAN BY LANDSCAPE ARCHITECT SCATLIFF+MILLER+MURRAY)

1. RUN-OFF FLOWS DETERMINED BY THE RATIONAL FORMULA METHOD
   $Q = 0.278CIA$, WHERE Q = RATE OF RUNOFF (m^3/s)
   C = COEFFICIENT OF RUNOFF
   I = RAINFALL INTENSITY (mm/HR)
   A = DRAINAGE AREA (km^2)
2. RAINFALL INTENSITY (I) = 5 YEAR C.O.W. DESIGN STORM, I = 88.9mm/HR
   (I) = 25 YEAR C.O.W. DESIGN STORM, I = 127.9mm/HR
3. 'Q' (5-YEAR) – PRE-DEVELOPMENT
   TIME OF CONCENTRATION = 15 MINUTES
   EAST CATCHMENT AREA = 0.74 Ha (or 1.83 ACRES)
   WEST CATCHMENT AREA = 0.76 Ha (or 1.84 ACRES)
   'C' – EXISTING = 0.43
   'C' – ALLOWABLE = 0.30
   ALLOWABLE DISCHARGE FROM SITE, Q_s = 110 L/s
4. 'Q' (25-YEAR) – POST DEVELOPMENT
   EAST CATCHMENT AREA, Q = 193 L/s
   RESTRICTED FLOW, Q = 52 L/s
   REQUIRED ON-SITE STORAGE = 127 m^3
   AVAILABLE ON-SITE STORAGE = 228 m^3
   WEST CATCHMENT AREA, Q = 130 L/s
   RESTRICTED FLOW, Q = 53 L/s
   REQUIRED ON-SITE STORAGE = 69 m^3
   AVAILABLE ON-SITE STORAGE = 80 m^3
   TOTAL DISCHARGE FROM SITE, Q_{25} = 105 L/s

SHORT FORM CONSTRUCTION NOTES:

1. ALL PRODUCTS INCORPORATED IN THE WORK SHALL CONFORM TO THE CITY OF WINNIPEG "STANDARD CONSTRUCTION SPECIFICATIONS" AND BE REGISTERED IN THE CITY OF WINNIPEG LISTING OF APPROVED PRODUCTS OR AS SPECIFIED ON THIS DRAWING. ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF WINNIPEG "STANDARD CONSTRUCTION SPECIFICATIONS", LATEST EDITION.
2. 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.
3. LOCATION AND ELEVATION OF EXISTING WORKS TO BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF SUCH UTILITIES, PIPES, SURVEY MARKERS, OR STRUCTURES AND TO NOTIFY ALL RELEVANT UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE CONSTULTANT OF ANY ERROR OR OMISSION PRIOR TO CONSTRUCTION.
4. ALL WORK WITHIN THE STREET RIGHT-OF-WAY TO BE DONE BY A QUALIFIED CONTRACTOR APPROVED BY THE CITY OF WINNIPEG.
5. ALL AREAS BEYOND THE PROPERTY LIMITS AFFECTED BY CONSTRUCTION TO BE RESTORED TO THE ORIGINAL CONDITION UNLESS NOTED OTHERWISE ON THE DRAWINGS.
6. ALL WATERMAINS SHALL BE AWWA C900, CLASS 150 PVC PIPE. ALL SEWER PIPE SHALL BE PVC SDR 35, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
7. CLASS 2 BACKFILL SHALL BE USED IN OPEN TRENCH EXCAVATIONS WITHIN PROPOSED PAVEMENT AREAS. CLASS 3 BACKFILL SHALL BE USED IN ALL SHAFTS EXCAVATED WITHIN EXISTING/ PROPOSED PAVEMENT SURFACES FOR AUGERING UNDER PAVEMENT SURFACES. CLASS 4 BACKFILL SHALL BE USED IN OPEN TRENCH EXCAVATIONS WITHIN BOULEVARD AREAS. CLASS 5 BACKFILL SHALL BE USED IN ALL SHAFTS EXCAVATED WITHIN BOULEVARD AREA SURFACES FOR AUGERING PURPOSES.
8. WATER AND SEWER SERVICES SHALL BE INSTALLED TO 1.0m FROM BUILDING FACE AND AS PER GRADE AND ALIGNMENTS SHOWN ON THIS PLAN. COORDINATE FINAL BUILDING CONNECTION WITH MECHANICAL CONTRACTOR.
9. WATER SERVICE SHALL HAVE A MINIMUM 2.75m COVER, UNLESS OTHERWISE INDICATED ON THE PLANS.
10. CATCH BASINS TO BE 900mm DIAMETER COMPLETE WITH 600mm SUMP (AS PER SD-025).
11. INSTALL INLET CONTROL DEVICE, APPROVED BY ENGINEER TO RESTRICT FLOW AS PER THE STORM WATER DISCHARGE CRITERIA. RESTRICTOR TO BE PLACED ON THE DISCHARGE OUTLET PIPE OF MANHOLE MH02 AND CATCH BASIN CB04 (REFER TO DETAIL).
12. CONCRETE APPROACHES SHALL BE CONSTRUCTED AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH CW SD-232. BASE AND SUB-BASE THICKNESSES SHALL MATCH THE PROPOSED HEAVY DUTY ASPHALT PAVEMENT BASE AND SUB-BASE OR THE BASE STRUCTURE OF THE EXISTING CONCRETE PAVEMENT ON THE CONNECTING STREET, WHICHEVER IS GREATER.
13. MEASUREMENTS ARE IN METRIC.
14. REFER TO DWG. L-3 AND L-4 FOR SITE DEVELOPMENT LAYOUT BY LANDSCAPE ARCHITECT.

NOTES :

THIS DRAWING MUST NOT BE SCALED.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DATUMS, AND LEVELS PRIOR TO COMMENCEMENT OF WORK. ALL ERRORS AND OMISSIONS TO BE REPORTED TO THE CONTRACT ADMINISTRATOR BEFORE PROCEEDING.

VARIATIONS AND MODIFICATIONS TO WORK SHOWN ON THESE DRAWINGS SHALL NOT BE CARRIED OUT WITHOUT WRITTEN PERMISSION OF THE CONTRACT ADMINISTRATOR.

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DO NOT COPY

GEODETIC BENCHMARK.....231.029m
BM No. 12.012 – S.E. HENDERSON HWY. & HELMSDALE AVE., TBLT. IN N. CONC. FOUNDATION OF THE MOST WLY. ADDITION TO DISTRICT NO. 4 OFFICES, NO. 775 HENDERSON HWY., 0.5m E. OF N.W. COR. & 0.2m BELOW BRICK OF BLDG.

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No.	REVISED/ ISSUED/ PLOTTED	DATE
1	ISSUED FOR 40% REVIEW	26-OCT-2007
2	ISSUED FOR 80% REVIEW	7-DEC-2007
3	ISSUED FOR 100% REVIEW	11-JAN-2008
4	ISSUED FOR TENDER	18-JAN-2008
5		
6		

NO.	REVISION/DESCRIPTION	BY	DATE

SEALS

APEGM Certificate of Authorization Genivar Consultants Limited Partnership No. 4318 Expiry April 30, 2008

PROVINCE OF MANITOBA D.T. BLACKBURN Member 23146 REGISTERED PROFESSIONAL ENGINEER

DRAWN BY	DTB	CHECKED BY	RES	APPROVED
DATE	29-NOV-2007	USER APPROVAL		

Winnipeg

CITY OF WINNIPEG
PLANNING, PROPERTY AND DEVELOPMENT DEPARTMENT
CIVIC ACCOMMODATIONS DIVISION
300 – 65 GARRY ST. R3C 4K4

PROJECT

BRONX PARK COMMUNITY CENTRE
HOME OF
GOOD NEIGHBOURS SENIOR CENTRE

WINNIPEG, MANITOBA

SHEET TITLE

SITE SERVICING PLAN

SCALE	PROJECT NO.	SHEET NO.
1:300	832-2007	C-2.0

DRAWING SHEET SIZE: ARCH E1 (42" x 30") PLOT 1:1