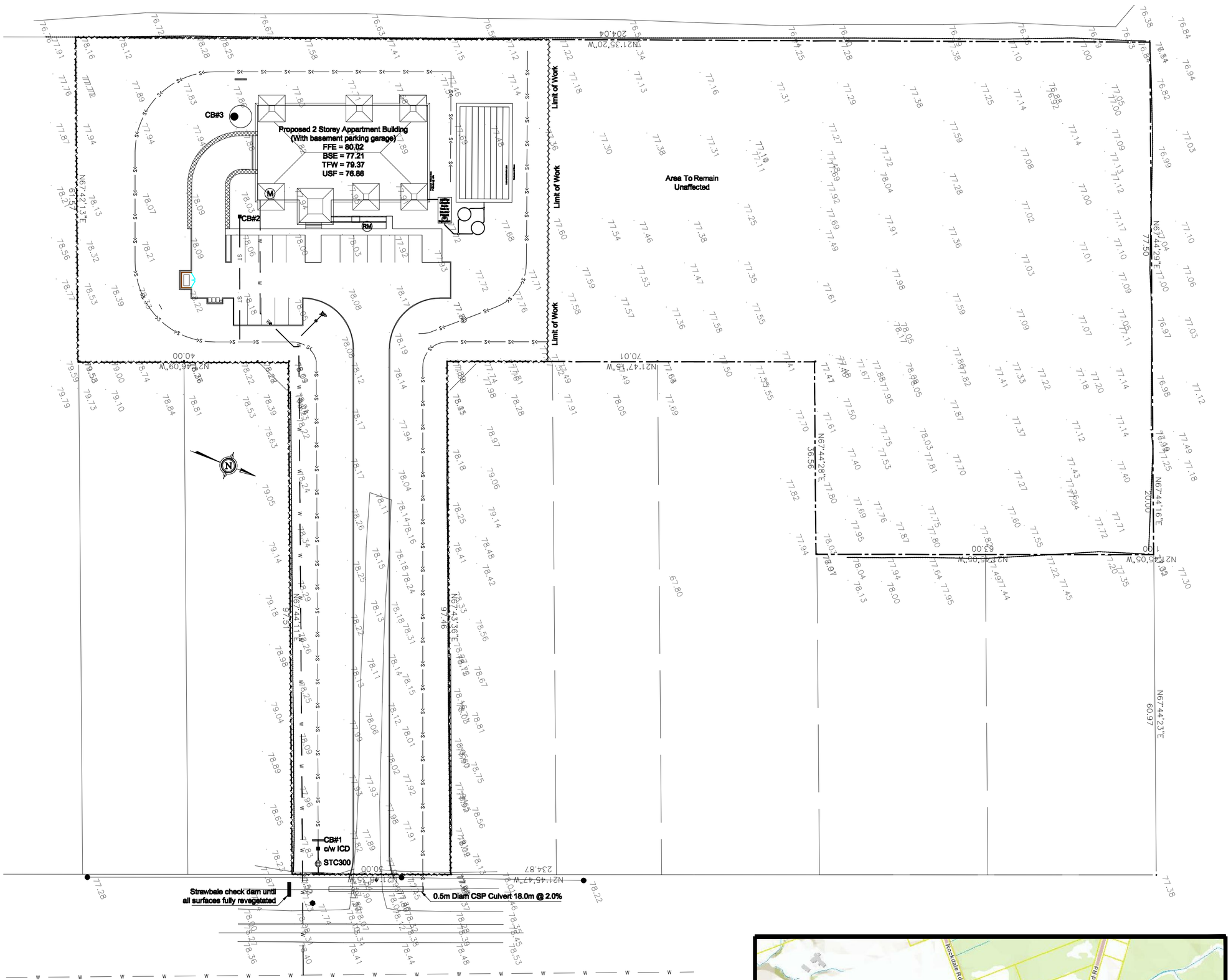
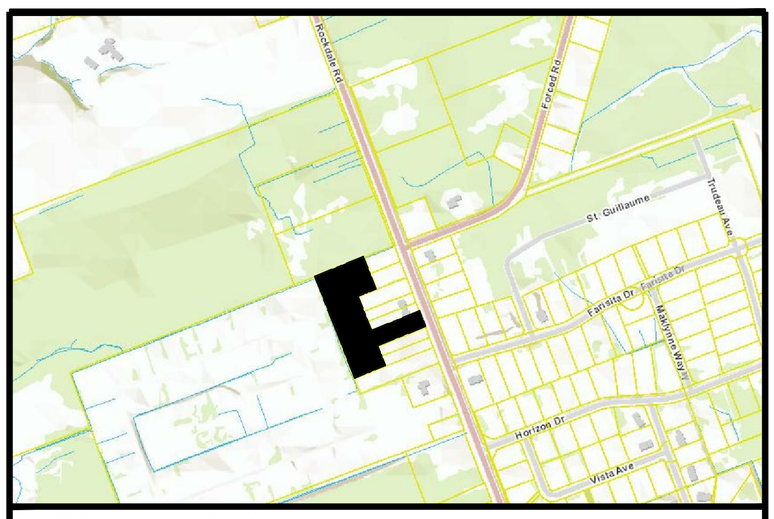


GENERAL VIEW
SCALE: 1:500



SITE LOCATION PLAN
SCALE: N.T.S

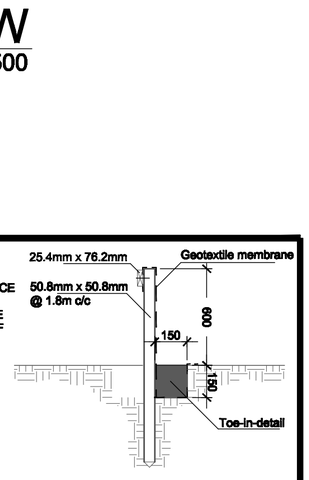
LEGEND:

- PROPOSED SANITARY
- PROPOSED STORM
- EXISTING WATERMAIN
- PROPOSED WATERMAIN
- PROPOSED SWALE
- SEDIMENT & EROSION PROTECTION FENCE
- 250mm PERFORATED SUB-DRAIN
- PROPERTY LINE
- 100 YEAR PONDING
- 5 YEAR PONDING
- PROPOSED CURB
- RETAINING WALL
- TOP OF SLOPE
- BOTTOM OF SLOPE
- MAJOR OVERLAND FLOW ROUTE
- 70.40 PROPOSED GRADE
- 70.40 OR 70.40 EXISTING GRADE
- CURB STOP
- WATER METER
- REMOTE WATER METER
- EXISTING CATCH BASIN MAN HOLE
- PROPOSED CATCH BASIN MAN HOLE
- EXISTING CATCH BASIN
- PROPOSED CATCH BASIN
- FIRE HYDRANT
- 50:1 (2% SLOPE) Refer to plan
- 2.0% slope DIRECTION OF SLOPE

DENOTES:

LP	LOW POINT
HP	HIGHPOINT
FFE	FINISHED FLOOR ELEVATION
BSE	BASEMENT (TOP OF) SLAB ELEV.
TFW	TOP OF FOUNDATION WALL
USF	UNDERSIDE OF FOOTING
TRW	TOP OF RETAINING WALL
UP	UTILITY POLE
DC	DEPRESSED CURB
*	TOP OF CURB
INV	PIPE INVERT
T/G	TOP OF GRATE
F/G	FINISHED GRADE ELEVATION
CB	CATCH BASIN
MH	MANHOLE
FH	FIRE HYDRANT
OHW	OVERHEAD WIRE
C.S.W.	CENTRELINE OF SWALE
ICD	INLET CONTROL DEVICE

1. SILT FENCE MUST BE AS PER DETAIL OPSD 219.110 & SHOWN BESIDE AND MUST BE INSTALLED BEFORE COMMENCEMENT OF CONSTRUCTION AND IN ACCORDANCE WITH THE TOE-IN-DETAIL. SILT FENCE CAN BE REMOVED AFTER LANDSCAPING IS COMPLETE. SEDIMENTS MUST BE CLEARED AWAY WHEN THEY REACH HALF THE HEIGHT OF THE FENCE.
2. DO NOT CLEAR ENTIRE SITE OF VEGETATION, ONLY AREAS THAT REQUIRE MODIFICATIONS. REVEGETATE EXPOSED AREAS WHEN GRADING IS COMPLETE.
3. POST SPACING MUST NOT EXCEED 1.8m.
4. POSTS MUST BE DRIVEN AT LEAST 35cm INTO THE GROUND.
5. THE BACKFILLED ANCHOR TRENCH MUST BE AT LEAST 15cm DEEP.
6. THE BACKFILL MUST BE COMPACTED.
7. THE SILT FENCE MUST BE SECURELY FASTENED TO THE POST.
8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR FOR INSTALLATION, INSPECTION, MAINTENANCE AND REMOVAL OF THE SEDIMENT AND EROSION CONTROL
9. A DAILY CHECK ON THE MEMBRANE AND THE CATCH BASIN AS TO BE DONE, THEREFORE MAKING SURE THE MEMBRANE AS NOT COLAPSED.
10. THE SEDIMENT AND EROSION CONTROL SHOULD BE CONSIDERED A "LIVING DOCUMENT" THAT MAY NEED TO BE CHANGED OR ADAPTED DURING THE LIFE OF THE PROJECT TO BE EFFECTIVE.
11. THE OWNER AGREES TO PREPARE AND IMPLEMENT AN EROSION AND SEDIMENT CONTROL PLAN TO THE SATISFACTION OF CITY OF OTTAWA, APPROPRIATE TO THE SITE CONDITIONS, PRIOR TO UNDERTAKING ANY SITE ALTERATIONS (FILLING,GRADING,REMOVAL OF VEGETATION,ETC.) AND DURING ALL PHASES OF SITE PREPARATION AND CONSTRUCTION IN ACCORDANCE WITH THE CURRENT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL SUCH AS BUT NOT LIMITED TO INSTALLING FILTER CLOTHS ACROSS MANHOLES/CATCHBASIN LIDS TO PREVENT SEDIMENT FROM ENTERING STRUCTURES AND INSTALL AND MAINTAIN A LIGHT DUTY SILT FENCE BARRIER AS REQUIERED.



SEDIMENT & EROSION CONTROL
SCALE: NTS

STORM MAN–HOLES SCHEDULES

PROPOSED CBMH#1 ø1.20m

EL. COV	77.98
W. INV	76.73
W. INV	77.30
E. INV	77.27

*Inlet control device @ outlet IPEX Type E *Monitoring Manhole

PROPOSED MH#3 ø3.60m

EL. COV	79.08
N.E. INV	76.46
W. INV	77.85

*Duplex pump: ?hp by Flotec or equivalent *Monitoring Manhole

PROPOSED CB#2 0.6mX0.6m

EL. COV	78.82
E. INV	77.60

PROPOSED STC300 ø1.20m

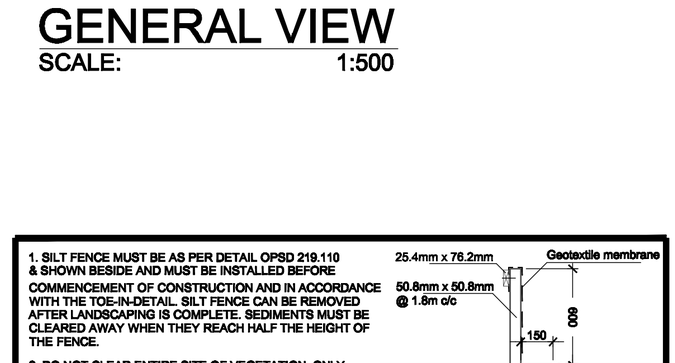
EL. COV	77.98
W. INV	77.26
E. INV	77.18

WATER SERVICE PROFILE FOR 5574 ROCKDALE ROAD

CHAINAGE(m)	LOCATION	FIN. GRADE	TOP OF PIPE	FROST COVER(M)	COMMENTS
0.000	CITY SERVICES	78.20	75.80	2.40	200MM DIA. PRIVATE MAIN
9.712	EDGE OF ASHPALT	78.31	75.80	2.51	
10.000	0+10	78.31	75.80	2.51	
16.277	CL OF DITCH	77.23	74.80	2.43	
19.171	CURB STOP	77.75	75.30	2.45	
20.000	0+20	77.75	75.30	2.45	
30.000	0+30	77.68	75.30	2.38	
40.000	0+40	77.71	75.30	2.41	
50.000	0+50	77.79	75.30	2.49	
60.000	0+60	77.90	75.30	2.60	
70.000	0+70	77.92	75.30	2.62	
80.000	0+80	77.96	75.30	2.62	
90.000	0+90	77.98	75.30	2.66	
100.000	1+00	77.92	75.30	2.68	
110.000	1+10	77.92	75.30	2.62	
119.436	HYDRANT TEE	77.48	75.08	2.40	200X50X200 TEE
120.000	1+20	77.48	75.08	2.40	
120.436	BEND	77.48	75.08	2.40	
126.529	SHUT–OFF VALVE	78.70	76.00	2.70	
127.232	EDGE OF ASPHALT	78.55	76.00	2.55	
129.438	BEND	78.55	76.00	2.55	
130.000	1+30	78.57	76.00	2.57	
140.000	1+40	78.57	76.00	2.57	
143.689	EDGE OF ASPHALT	78.76	76.00	2.76	
144.889	START OF GRASS	78.93	76.40	2.53	
150.000	1+50	78.90	76.40	2.50	
150.355	AT BUILDING	79.22	76.40	2.82	

SITE SERVICING NOTES

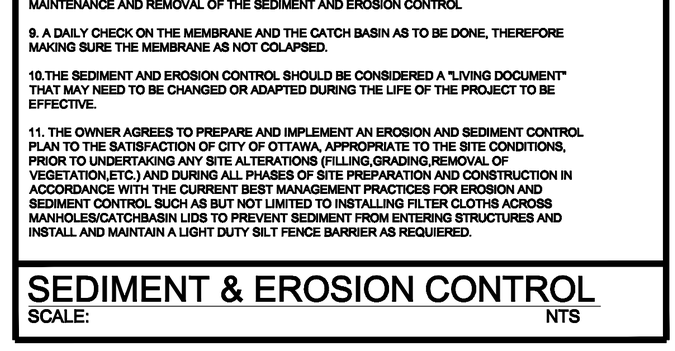
1. Elevations shown on plans are geodetic in meters and taken from topographical survey drawing by Arpentage Dutrisac Surveying Inc. July 2013.
2. Project T.B.M. (Temporary Benchmark). Nail in Utility Pole on East side of Rockdale Road Elev. = 78.39.
3. All water works to respect requirements of the City of Ottawa and to conform to the latest revision of Standard Tendering Documents as prepared by city.
4. All catch basin manholes and sewers work to be constructed as per the requirements of the City of Ottawa.
5. Pipes sizes shall be as shown on drawing.
6. Pipes material to be as follows:
   - storm sewer – PVC SDR28
   - watermain – PVC DR18
   - sanitary sewer – SDR 35
   - sub–drain – flexible perforated heavy duty polyethylene pipe c/w polyester sock filter by BIG'O' or equivalent.
7. All water services shall have 2.4 m frost cover minimum.
8. Existing services and utilities shown on this drawing are taken from best available records but are not complete. Contractor is required to check in field for location and all elevation of pipes and check with utility companies before digging or ordering any material. Advise engineer of any discrepancies for recommendations and directions, prior to ordering any materials or starting any work.
9. Geotechnical Report, perform by Morey Associates Ltd. (report# 013300, written September 2013), forms part of our specifications and requirements. Contractor must be fully cognizant of its content and respect its recommendations.
10. Stormwater Management Report by A. Dagenais and Assoc. Consulting and Forensics engineers and Architects, forms part of our specifications and requirements. The contractor must be fully cognizant of its content and respect its recommendations.
11. All plumbing and electrical work to be coordinated with civil engineering.
12. Notify engineer for inspection prior to backfilling or covering any pipes or appurtenances.
13. Contractor to respect grading around building to be 0.15m minimum below top of foundation or any siding or finish wall material.
14. All works for private approach including any temporary construction access to the site lane shall be constructed in accordance with requirements of the City of Ottawa standards.
15. Contractor to prevent erosion and sedimentation damages by installing geosocks under cover of existing down stream catch basins and also take necessary measures to prevent erosion and sediment deposit on adjacent property. Provide also straw wall with pickets & geotextile at perimeter of property.
16. All pipe bedding to be as per the City of Ottawa requirements and as specified in geotechnical report.
17. Contractor to obtain clearance certificate from all agencies, authorities and utility company prior to making any excavation. Provide copy of clearance certificate to engineer prior to start of construction.
18. CB#1 is to be as per OPSD 705.010. MH#2 is to be as per OPSD 701.015 complete with transition slab, 1200mm diameter riser and 1200mm diameter precast flat cap.
19. All catch basin manholes shall be cleaned and empty annually for the purpose of capturing sediment.
20. Refer to site/landscape plan by A. Dagenais & Assoc. for details of curb radius, dimensions of lanes, parking stalls, set back requirements and site data.
21. Location of street water is approximate and contractor to verify the exact distance and elevation.
22. Contractor to perform all testing verification, cleaning and preparation as per the requirements of the City of Ottawa before final approval.
23. Major overland flow is @ an elevation of 77.75 m.
24. Asphalt details and road foundation, as well as parking foundation should be as per details on SS1.
25. Proposed grade elevations to match existing elevations at property line or as per plan.
26. All proposed grades greater than 7% are proposed average grades. Conractor to use construct slope using terracing.



Note: if the subgrade is disturbed or wet, incorporate a non-woven geotextile seperator between the soil and the granular "B", plus the subbase should increase to 400mm

Note: Superpave 12.5 may be susbstituted for HL3 as per Geotechnical reply letter (September 15, 2014) by geotechnical engineer.

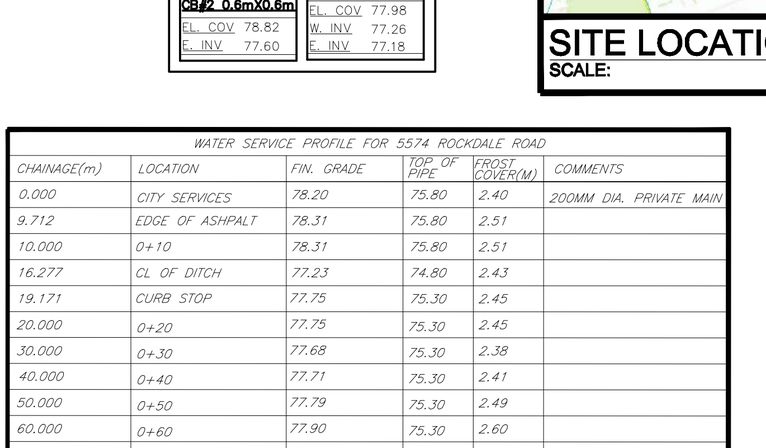
PAVEMENT STRUCTURE - PARKING
SCALE: NTS



Note: if the subgrade is disturbed or wet, incorporate a non-woven geotextile seperator between the soil and the granular "B", plus the subbase should increase to 400mm

Note: Superpave 12.5 may be susbstituted for HL3 and 50mm of superpave 19 may be substituted for HL8 as per Geotechnical reply letter (September 15, 2014) by geotechnical engineer.

PAVEMENT STRUCTURE - HEAVY
SCALE: NTS



SWALE W/ SUBDRAIN DETAIL
N.T.S.

NOTE:
1. PROVIDE SUBDRAIN UNDER FULL LENGTH OF SWALE
2. SIDE SLOPE SHALL NOT EXCEED 3H:1V.
3. OUTLET SUBDRAIN DIRECTLY INTO CB#1
4. T-Stlye CBMH'S REQUIRED EVERY 120M OF SUBDRAIN FOR MAINTENANCE PURPOSES

SWALE DETAIL
SCALE: NTS

#5	Revised Per City Comments	January 13, 2015
#4	Revised Per City Comments	September 17, 2014
#3	Revised Per City Comments	April 15, 2014
#2	Coordintation with Enviro. Engineer	November 11, 2013
#1	Issued For Client Review	October 22, 2013
No.	Revision	Date

A. Dagenais & Assoc. Inc.
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12 Unit Apartment Building
Rollin Development
5574 Rockdale Road, Vars, Ontario
General View, Notes & Details
Drawn by: M.J.
Checked by: A.F.D.
Date: September 2013
Scale: As shown
Folder #: 013-286

Stamp: LICENSED PROFESSIONAL ENGINEER A.F. DAGENAIS 13/01/15 PROVINCE OF ONTARIO

Page number: SS1 of 2