

Stantec Consulting Ltd.
1505 LaPerrriere Avenue
Ottawa ON Canada
K1J 7T1
Tel. 613.722.4420
Fax. 613.722.2799
www.stantec.com

Copyright Reserved

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec Consulting Ltd. without delay.
The Copyrights to all designs and drawings are the property of Stantec Consulting Ltd. Reproduction or use for other than that authorized by Stantec Consulting Ltd. is forbidden.

Legend

- PROPOSED CULVERT
- - - PROPOSED DITCH
- PROPOSED HOUSE ELEVATION AND LOT NUMBER, PROPOSED ELEVATION TO BE IMPLEMENTED AROUND ALL SIDES OF THE HOUSE ENVELOPES.
- [16] LOTS NUMBERS INDICATED IN SQUARE BRACKETS REFER TO REGISTERED LOTS FOR PHASE 2
- PARTIALLY-RAISED LEACHING BED WITH NATIVE MANTLE (8 RUNS OF 15m MIN. RUN FROM ANY STRUCTURES MIN. 6m FROM ANY PROPERTY LINES. (REFER TO D. CATERN AND ASSOC. REG. PLAN 03 DATED MAY 12, 2003. REVISED APRIL 04, 2005.
- SPARE AREA FOR PARTIALLY-RAISED LEACHING BED (8 RUNS OF 15m) AND BED ELEVATIONS
- PROPOSED DRILLED WELL
- ⊕ HAND AUGER HOLE LOCATION
- ⊕ TEST WELL LOCATION
- DRAINAGE EASEMENT
- PROPOSED LOT CORNER ELEVATION
- EXISTING LOT CORNER ELEVATION
- × PROPOSED DITCH ELEVATION
- 100 YR FLOOD ELEVATION
- FILL TO PROVIDE DITCH BACK SLOPE
- CULVERT IDENTIFICATION
- ± GW=101.0m GROUND WATER ELEVATION (MARCH 17, 2005)
- USF(MIN) 101.00 LOWEST USF BASED ON GROUND WATER ELEVATIONS. SEE NOTES 4 & 5
- 100yr HGL ELEVATION
- NOISE FENCE

Notes

1. ELEVATIONS AT HOUSES ARE BASED ON PARTIALLY RAISED TILE BEDS ON GRADY SYSTEM. IF PUMPING IS USED HOUSE ELEVATIONS CAN BE LOWERED. SEPTIC SYSTEM LAYOUT TO BE REVISED ON A LOT BY LOT BASIS.
2. CAUTION: LOWERING OF FOUNDATIONS BELOW GROUND WATER TABLE WILL RESULT IN EXCESSIVE OPERATION OF SUMP PUMPS.
3. REFER TO GP-4 FOR GRADING DETAILS.
4. ALL DITCHES SHALL BE c/w 80mm TOPSOIL SEED AND MULCH.
5. G.W. - RECORDED GROUND WATER ELEVATION. UNDERSIDE OF FOOTING (USF) ELEVATIONS SHALL BE 0.15m (MIN) ABOVE THIS ELEVATION. AS PER THE GEOTECHNICAL REPORT THE FOLLOWING OPTIONS ARE TO BE CONSIDERED FOR DRAINAGE AT THE RESIDENTIAL STRUCTURES.
 - 4.1. DRAIN PROOF THE EXTERIOR OF THE FOUNDATION WALLS AND BACKFILL THE WALLS WITH FREE DRAINING, NON-FROST SUSCEPTIBLE SAND OR SAND AND GRAVEL, SUCH AS THAT MEETING ONTARIO PROVINCIAL STANDARD SPECIFICATIONS (OPSS) REQUIREMENTS FOR GRANULAR 9 TYPE I. OR
 - 4.2. INSTALL AND APPROVED PROPRIETARY DRAINAGE MATERIAL (SUCH AS SYSTEM PLATON) ON THE EXTERIOR OF THE FOUNDATION WALLS AND BACKFILL THE WALLS WITH NATIVE MATERIAL OR IMPORTED SOIL.
6. A PERFORATED DRAIN SHOULD BE INSTALLED AROUND THE BASEMENT AREA AT THE LEVEL OF THE BOTTOM OF THE FOOTING. THE DRAIN SHOULD OUTLET TO A SUMP FROM WHICH THE WATER IS PUMPED OR SHOULD DRAIN BY GRAVITY TO A SUITABLE OUTLET.
7. USF IS TYPICALLY BASED ON THE FINISHED HOUSE ELEVATIONS (LESS 2.25m) HOWEVER THE (MINIMUM) USF IS THE LOWEST ELEVATION THE USF CAN BE BASED ON EITHER THE G.W. OR 100 YEAR FLOOD ELEVATION WHICH EVER IS GREATER.

REVISION	REVISION	BY	DATE
10	REMOVED PROP. ENTRANCE FEATURES	GBU	TJW JAN. 15/13
9	REVISED AS PER CITY COMMENTS	ATR	TJW SEP. 25/12
8	REVISED AS PER CITY COMMENTS	ATR	TJW JAN. 27/12
7	ADD BERM ALONG ALBION ROAD	NI	TJW FEB. 21/06
6	100yr FLOODLINE	GBU	TJW JUN. 23/05
5	REVISED AS PER CITY COMMENTS	GBU	TJW MAY. 25/05
4	REVISED AS PER CITY COMMENTS - REVISION LOT #'S	NI	TJW MAR. 28/05
3	REVISED SITE PLAN DATED SEPT27/04	SK	TJW OCT. 18/04
2	CITY COMMENTS	GBU	TJW SEP. 21/04
1	REVISED LOT & ROAD LAYOUT	GBU	TJW DEC. 8/03

File Name: 60400144-BASE

Seals

Client/Project
CAVANGH CONSTRUCTION

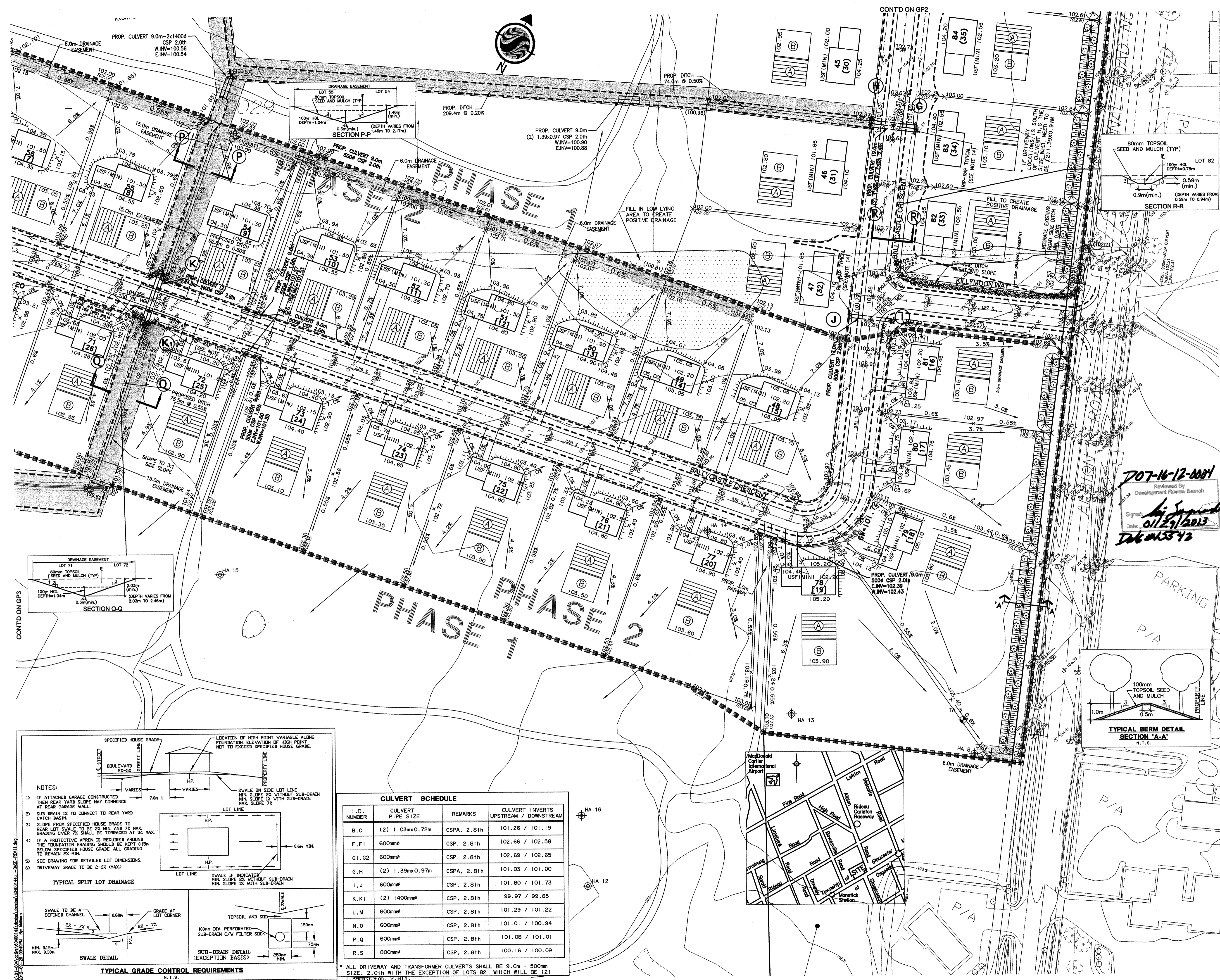
EMERALD LINKS SUBDIVISION

Ottawa, Ontario

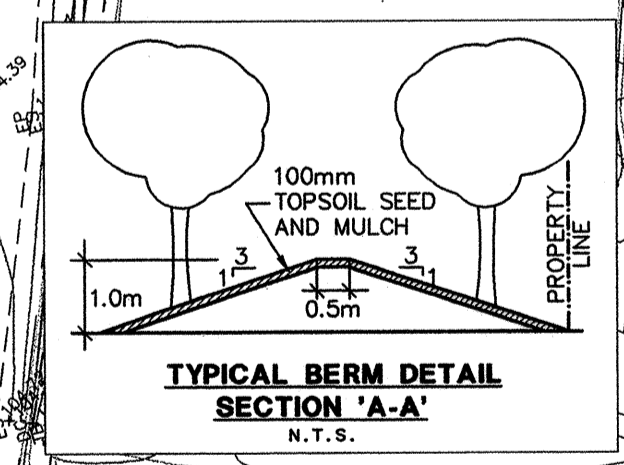
Title
GRADING PLAN

Project No. 60400144 Scale 0 7.5 22.5 37.5m
1:750

Drawing No. GP-4 Sheet 17 of 24 Revision 10

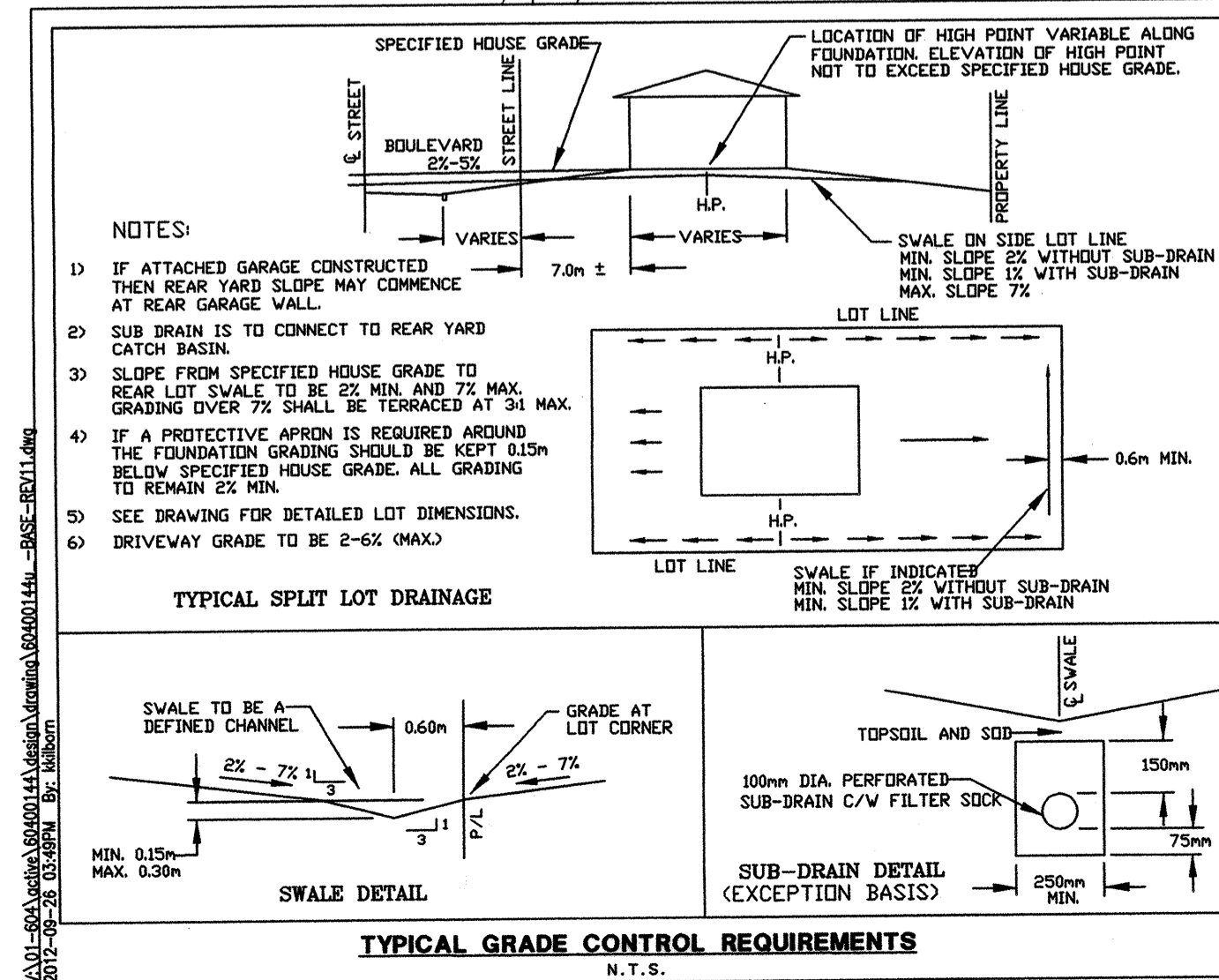


707-16-12-0004
Reviewed By
Development Review Branch
Signature: *Hi...*
Date: 01/29/2013
Tel: 613-554-42



I.D. NUMBER	CULVERT PIPE SIZE	REMARKS	CULVERT INVERTS UPSTREAM / DOWNSTREAM
B,C	(2) 1.03mx0.72m	CSPA, 2.81h	101.26 / 101.19
F,F1	600mm#	CSP, 2.81h	102.66 / 102.58
G1,G2	600mm#	CSP, 2.81h	102.69 / 102.65
G,H	(2) 1.39mx0.97m	CSPA, 2.81h	101.03 / 101.00
I,J	600mm#	CSP, 2.81h	101.80 / 101.73
K,K1	(2) 1400mm#	CSP, 2.81h	99.97 / 99.85
L,M	600mm#	CSP, 2.81h	101.29 / 101.22
N,O	600mm#	CSP, 2.81h	101.01 / 100.94
P,Q	600mm#	CSP, 2.81h	101.08 / 101.01
R,S	800mm#	CSP, 2.81h	100.16 / 100.09

* ALL DRIVEWAY AND TRANSFORMER CULVERTS SHALL BE 9.0m x 500mm SIZE. 2.01h WITH THE EXCEPTION OF LOTS 82 WHICH WILL BE (2) 1.39mx0.97m, 2.81h.



ORIGINAL SHEET - 150 AT

707-16-12-0004
DWG # 15542