



400 Clyde Road, P.O. Box 729 Cambridge, ON N1R 5W6

Phone: 519.621.2761 Toll free: 866.900.4722 Fax: 519.621.4844 Online: [www.grandriver.ca](http://www.grandriver.ca)

August 30, 2017

Ritchie Custom Cabinetry,  
c/o Ken Ritchie  
Unit 6, 20 Roy Blvd.  
Brantford, ON  
N3R 7K2

Dear Ken Ritchie,

**Re: Revised Application for Permission No. 378/17, Pursuant to Ontario Regulation 150/06 to construct a 204.5 square metre dwelling, a driveway, a septic system and a 352 square metre accessory structure at Lot 2, Range 2 East of Mount Pleasant Road, Cockshutt Road, in the County of Brant**

The Grand River Conservation Authority approved your application for the above noted development on June 20, 2017. We have now had the opportunity to review the revised plans for the proposed works and have determined that the revisions are minor and satisfy the original intent our permission granted on June 20, 2017. On this basis, we are amending the permit through this letter and updating the 'Schedule B' plan. Please replace the original 'Schedule B' plan with the 'Schedule B' plan enclosed with this letter.

Any further changes to these plans must be reviewed and approved by the Grand River Conservation Authority. Please note that permission is based on existing information, policies and practices and does not bind or imply that any other permission will be forthcoming.

Please notify our office on completion of the work.

If you have any questions regarding this letter or the conditions described on the permit, please contact me.

Yours truly,

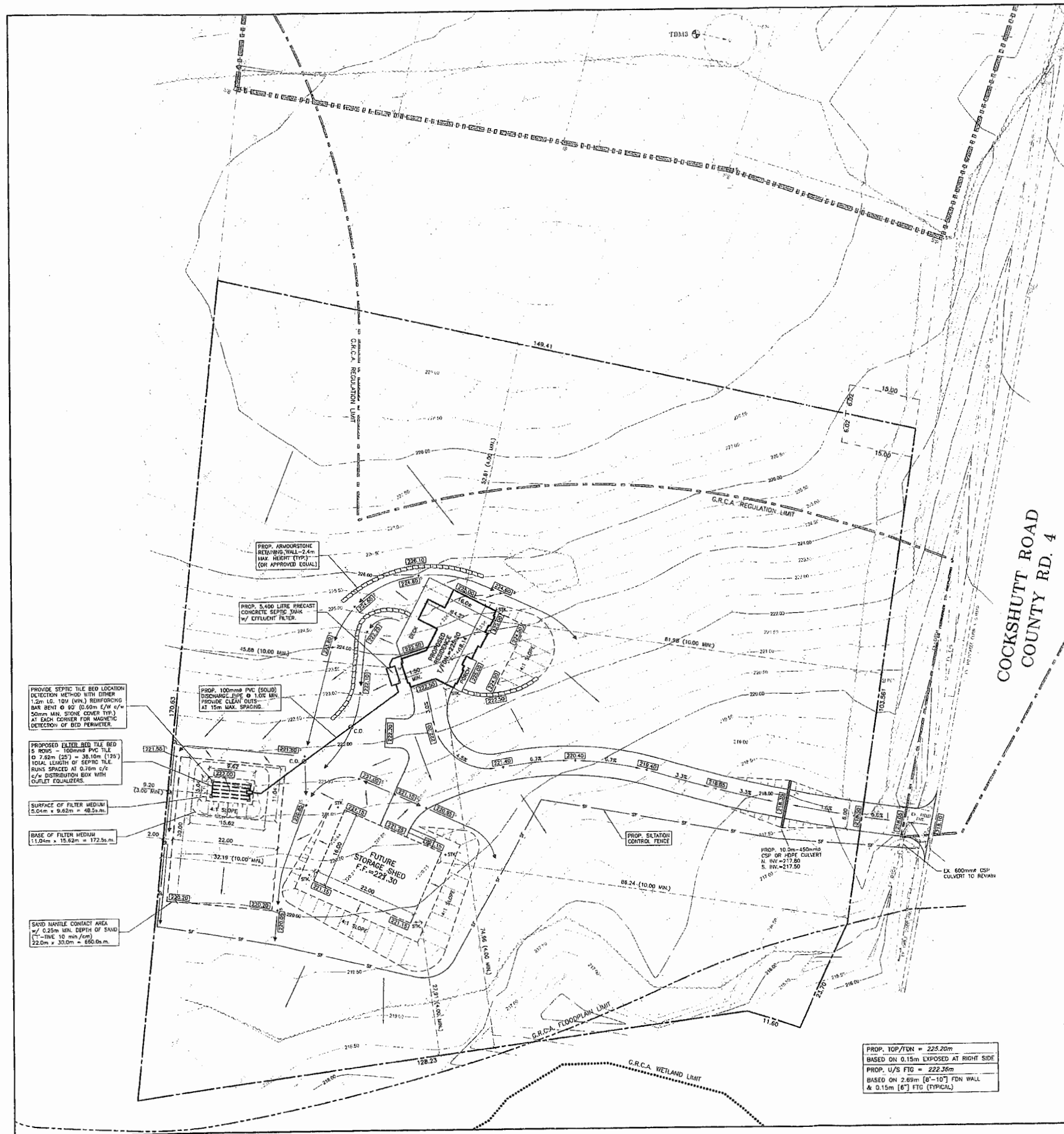
A handwritten signature in cursive script that reads "Ashley Graham".

Ashley Graham  
Resource Planner  
Resource Management Division

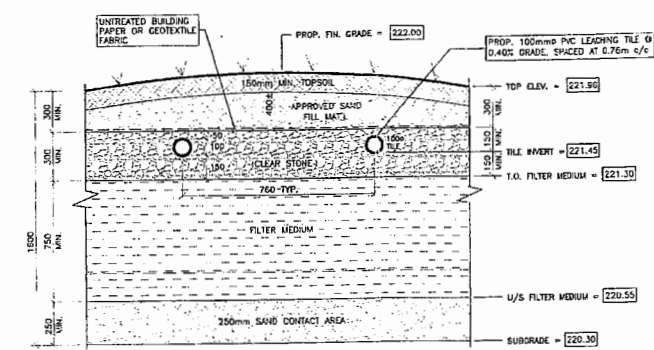
AG\*dg

Encl.

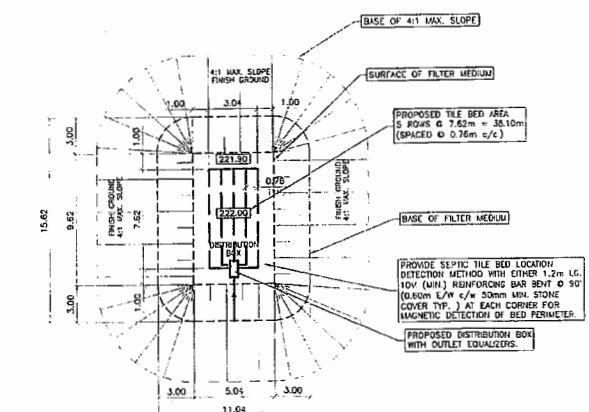
c.c. Clerk, County of Brant  
Building Inspector, County of Brant



LIGHT DUTY  
SILT FENCE DETAIL  
OPSD 219.110

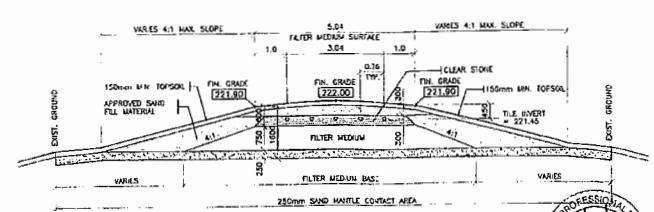


FILTER BED SECTION DETAIL



FILTER BED PLAN DETAIL  
5 ROWS @ 6.10m TILE

## SCHEDULE B



FILTER BED X-SECTION  
5 ROWS @ 7.62m TILE

THE POSITION OF POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND ABOVEGROUND UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED BEFORE COMMENCING WORK. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

- LEGEND:**
- EXISTING ELEVATIONS
  - PROPOSED ELEVATIONS
  - PROPOSED SHALE ELEVATIONS
  - PROPOSED SHALE
  - GENERAL DRAINAGE
  - G.R.C.A. REGULATION LIMIT
  - PROPOSED PRE-ASSEMBLED SATURATION CONTROL FENCING

- NOTES:**
- ALL ELEVATIONS SHOWN ARE METRIC.
  - BUILDER/OWNER TO VERIFY COMPLIANCE WITH ZONING BYLAW (e.g. SICKYARDS, SETBACKS, REARWARDS ETC.)
  - LOT COVERAGE = 3.1% (A ZONE = 30% MAX.) INCLUDES PORCH, DECK & FUTURE STORAGE SHED.
  - TILE BEDS TO BE INSTALLED AS PER PART B OF THE O.R.C. AND AS PER DETAILS THIS SHEET.
  - MINIMUM CLEARANCES TO SEPTIC SYSTEM:  
SEPTIC TANK/BOX: 15.0m MIN.  
BUILDING: 1.5m MIN.  
PROPERTY LINE: 3.0m MIN.  
LAKE, STREAM ETC.: 15.0m  
TILE BED DISTRIBUTION BOX: 15.0m MIN.  
BOX WELL: 15.0m MIN.  
BUILDING: 1.5m MIN.  
PROPERTY LINE: 3.0m MIN.  
LAKE, STREAM ETC.: 15.0m
  - DO NOT CONNECT ANY WATER TREATMENT SYSTEMS FOR DISCHARGE INTO THE SEPTIC SYSTEM (e.g. WATER SOFTENER ETC.)
  - FILTER BED SEPTIC SYSTEM:  
DESIGN BASED ON 1 STOREY, 300.00m<sup>2</sup> 3 BEDROOM DWELLING WITH 28 FUTURE UNITS.  
DAILY SEWAGE FLOW (D.S.F.) = 2000 L/DAY WITH AN EXISTING SOL. T-RATE OF 3.50 mm/c/m.  
FILTER BED DESIGN:  
USE 5 ROWS @ 7.62m (25') = 38.10m (125')  
TOTAL LENGTH OF 100mm PVC DISTRIBUTION PIPE: 3.04m x 8.82m = 48.55m (159.26m MIN.)  
FILTER MEDIUM BASE:  
11.04m x 15.62m = 172.56m (153.0m MIN.)  
SAND CONTACT AREA:  
22.0m x 30.0m = 660.0m (660.0m MIN.)
  - SEPTIC TANK SHALL BE 5400 LITRE PRECAST CONCRETE C/A EFFLUENT FILTER ON THE OUTLET PIPE WITH MAINTENANCE ACCESS OPENING TO GROUND SURFACE.
  - PROVIDE SEPTIC TILE BED LOCATION DETECTION METHOD WITH OTHER 1.2m L.G. 10W (MIN.) REINFORCING BAR BENT @ 90° (0.60m E/W C/A 30mm MIN. STONE COVER TYP.) AT EACH CORNER FOR MAGNETIC DETECTION OF BED PERIMETER.
  - BUILDER/CONTRACTOR TO REPORT TO THE ENGINEER ANY CONDITIONS THAT DEVIATE FROM THE DESIGN CRITERIA (e.g. SOIL SUITABILITY, WATER TABLE ETC.)
  - STEP DOWN TOP OF FOUNDATION AND/OR FOOTINGS TO MATCH PROPOSED GRADES.
  - THE BUILDER/CONTRACTOR IS TO ENSURE FOOTINGS ARE FOUND ON SOIL CAPABLE OF SUPPORTING THE ANTICIPATED LOADS.
  - THE SALTATION & EROSION CONTROL (SEC) MEASURES ILLUSTRATED ON THIS PLAN ARE CONSIDERED TO BE THE MINIMUM REQUIREMENT. SITE CONDITIONS MAY REQUIRE ADDITIONAL MEASURES WHICH WILL BE IDENTIFIED BY THE ENGINEER DURING CONSTRUCTION.
  - ALL SEC MEASURES ARE TO BE IN PLACE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
  - OWNER/CONTRACTOR TO MAINTAIN EROSION CONTROL MEASURES THROUGHOUT SITE UNTIL A COMPLETE GRASS/VEGETATION COVER IS ACHIEVED.
  - ONLY AT THE DISCRETION OF THE ENGINEER ARE THE SEC MEASURES TO BE REMOVED.

T.B.M. No. 3 ELEV. = 229.42m (GEO)


**J.H. COHOON ENGINEERING LIMITED**  
CONSULTING ENGINEERS  
440 HARDY ROAD, UNIT #1, BRANTFORD - ONTARIO, N3T 5A8  
TEL: (519) 753-2636 FAX: (519) 753-4263 www.cohooneng.com

PROJECT:  
**PROPOSED RITCHIE RESIDENCE**  
ROLL No. 2920-004-0304-1800-000  
COCKSHUTT ROAD  
PART OF LOTS 7 & 8  
RANGE 2 EAST OF THE MT. PLEASANT ROAD  
(GEOGRAPHIC TWP. OF BRANTFORD)  
COUNTY OF BRANT

CUSTOMER: **KEN RITCHIE**  
**LOT GRADING PLAN & SEPTIC SYSTEM LAYOUT**

DESIGN: D.E.B./R.W.P.	SCALE: 1:400
DRAWN: S.L.M./K.P.B.	JOB No.
CHECKED: D.E.B./R.W.P.	<b>12251</b>
DATE: 1 of 1	DATE: AUG. 23/17
	<b>12251-1</b>