
CITY OF KELOWNA

MEMORANDUM

Date: March 9, 2017
File No.: Z17-0022
To: Community Planning (EW)
From: Development Engineering Manager (SM)
Subject: 1065 Guisachan Road

RU1 to RU1c

Development Engineering has the following comments and requirements associated with this application. The utility upgrading requirements outlined in this report will be a requirement of this development.

1. Domestic Water and Fire Protection

Our records indicate that this property is currently serviced with a 19mm-diameter water service which is adequate for this application.

2. Sanitary Sewer

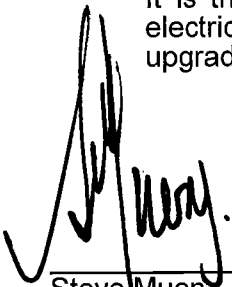
Our records indicate that this property is currently serviced with a 100mm-diameter sanitary sewer service which is adequate for this application.

3. Development Permit and Site Related Issues

Direct the roof drains onto splash pads.

4. Electric Power and Telecommunication Services

It is the applicant's responsibility to make a servicing application with the respective electric power, telephone and cable transmission companies to arrange for service upgrades to these services which would be at the applicant's cost.



Steve Muenz, P. Eng.
Development Engineering Manager

SS

SCHEDULE

A

This forms part of application

Z17-0022

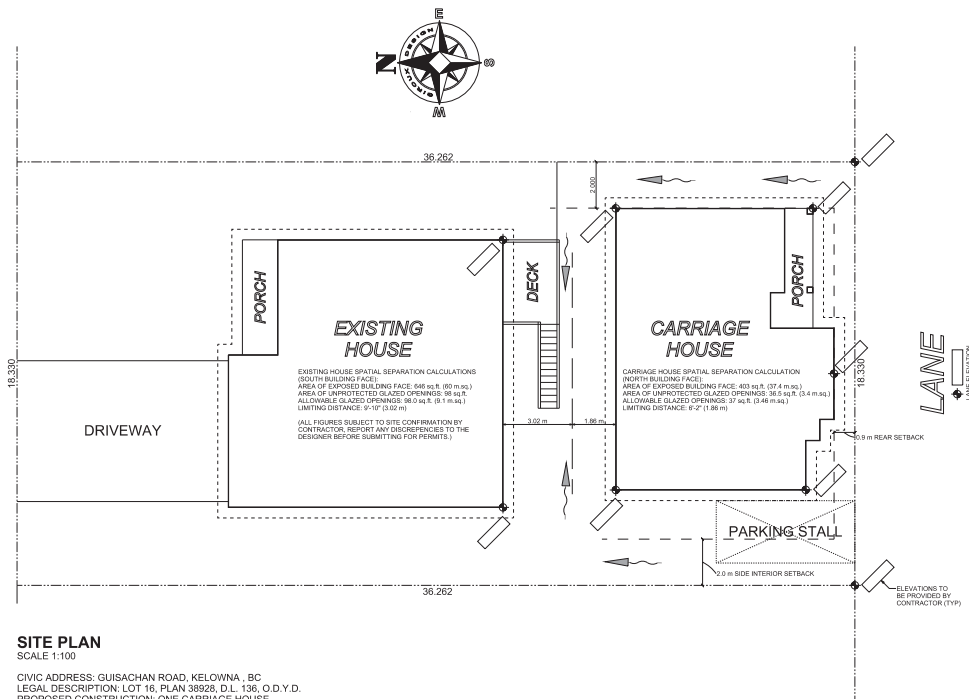
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GUISACHAN ROAD



SITE DRAINAGE
ALL GRADES TO SLOPE AWAY FROM FOUNDATION SO THAT WATER WILL NOT ACCUMULATE AT OR NEAR THE BUILDING. SURFACE DRAINAGE SHALL BE DIRECTED AWAY FROM THE LOCATION OF A WATER SUPPLY OR SCHEP/TANK. SURFACE DRAINAGE SHALL NOT BE LESS THAN 12" (3.05 m) FROM THE BUILDING FOUNDATION AND LOCATED SO THAT DRAINAGE IS AWAY FROM THE BUILDING.

SITE DRAINAGE SHOULD CONFORM TO ONE OF THE TWO FOLLOWING DRAINAGE METHODS:
1) BACK TO FRONT - WITH THIS TYPE OF DRAINAGE, THE REAR LOT LINE IS THE HIGH POINT. FIRST OF ALL AN ELEVATED APRON MUST BE CREATED AROUND THE HOUSE. THIS ALLOWS THE SURFACE DRAINAGE TO FLOW TOWARDS THE BACK AND THEN FORWARD TO THE STREET AT THE EDGES OF THE PROPERTY. BACK TO FRONT DRAINAGE IS TYPICAL OF PROPERTIES ON A RISE OR ON MOUNTAINSIDE.
2) SPLIT - WITH THIS TYPE, THE HOUSE IS THE HIGH POINT AND THE LOT IS GRADED SO THAT SURFACE DRAINAGE FLOWS FORWARD TO THE STREET AND BACKWARD TOWARD THE REAR LOT LINE, WHICH IS THEN GENERALLY DRAINAGE BY A SWALE AND CATCH BASIN SYSTEM. THIS IS THE MORE COMMON TYPE AND IS TYPICAL OF HOUSING DEVELOPMENTS ON RELATIVELY FLAT LAND.

PLAN AND DESIGN SITE GRADING AND FOUNDATION DRAINAGE TO ANTICIPATE ALL SOURCES OF MOISTURE. DIVERT WATER AWAY FROM THE BASEMENT WALL AND PROVIDE AN EFFECTIVE DRAINAGE LAYER AROUND THE PERIMETER OF THE BASEMENT. THIS WILL PREVENT THE ACCUMULATION OF GROUND WATER THAT CAN CAUSE HYDROSTATIC PRESSURE ON THE BASEMENT WALLS AND AT THE FOOTING. DESIGN AND CONSTRUCT WINDOW WELLS PROPERLY TO ENSURE ACCEPTABLE PERFORMANCE UNDER ADVERSE WEATHER CONDITIONS.

SIZE AND LOCATE SUMP AND SUMP PUMPS TO EFFECTIVELY CONTROL THE GROUNDWATER LEVEL OVER THE ENTIRE BASEMENT AREA.

MOIST SURFACE DRAINAGE PROBLEMS OCCUR ALONG THE SIDE LOT LINES BETWEEN TWO HOUSES, ESPECIALLY WHERE THE HOUSES ARE CLOSE TOGETHER. IN THESE AREAS, A WELL DEFINED SWALE BETWEEN THE HOUSES SHOULD BE FORMED, WHICH ALLOWS SURFACE WATER TO BE DIVERTED FROM THE HOUSE AND DIRECTED TO THE SWALE AND THEN FORWARD OR BACKWARD, DEPENDING ON THE TYPE OF LOT-GRADING APPROACH USED.

WHERE DOWNSPOUTS ARE PROVIDED AND ARE NOT CONNECTED TO A SEWER, EXTENSIONS SHALL BE PROVIDED TO CARRY RAINWATER AWAY FROM THE BUILDING IN A MANNER WHICH WILL PREVENT SOIL EROSION. DOWNSPOUTS FROM THE ROOF SHOULD DISCHARGE AT GRADE INTO A SPLASH PAD AT LEAST 3' (0.9 m) AWAY FROM THE BUILDING. THEY SHOULD NOT BE DIRECTED TOWARD ADJACENT PROPERTY BUT RATHER TOWARD SWALES ESTABLISHED BETWEEN THE PROPERTIES AND WITHIN THE PROPERTY BOUNDARY.

IN ADDITION, THE FOLLOWING GUIDELINES SHOULD BE FOLLOWED:
MINIMUM HEIGHT OF TOP OF FOUNDATION WALL ABOVE GRADE: 8" (200 mm)
MINIMUM SLOPE AWAY FROM HOUSE FOR AT LEAST 5' (1.5 m) RUN - APPROXIMATELY 3/4" PER 12" (19 mm PER 305 mm)
MINIMUM SLOPE ON REST OF LOT: 1.0% - APPROXIMATELY 1/2" PER 12" (13 mm PER 305 mm)
MINIMUM ELEVATION OF LOT, AT HOUSE, ABOVE STREET LEVEL: 1'-6" (480 mm)
MINIMUM DEPTH OF SWALES: 6" (150 mm)

WINDOW WELLS SHALL BE DRAINED TO THE FOOTING LEVEL OR OTHER SUITABLE LOCATION. FOUNDATION DRAIN (DRAINAGE PIPE OR WEEPING TILE) SHALL DRAIN TO A SEWER, DRAINAGE DITCH OR DRY WELL. SURFACE DRAINAGE SHOULD BE DIRECTED AWAY FROM WINDOW WELLS. EXTERIOR LIGHTWELLS AND DOWNSPUTS SHOULD BE LOCATED WITHIN THE PERIMETER OF THE LOT SHOULD NOT BE ALTERED AS A CONSEQUENCE OF GRADING, LANDSCAPING OR FENCING PROJECTS.

ATTACHMENT A

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SITE & DRAINAGE PLAN

PLAN NO.
WP-5498

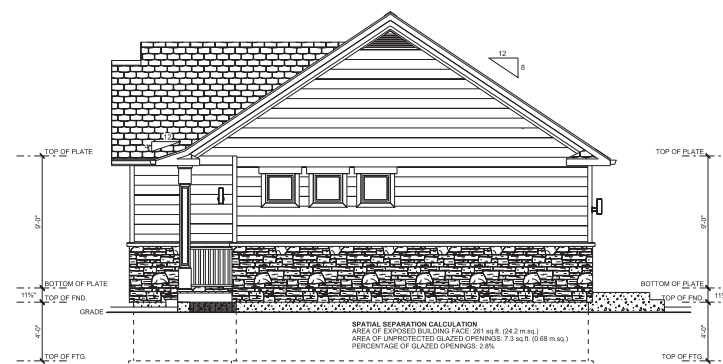
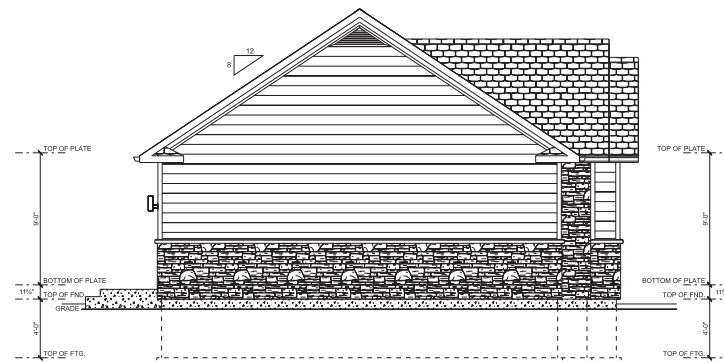
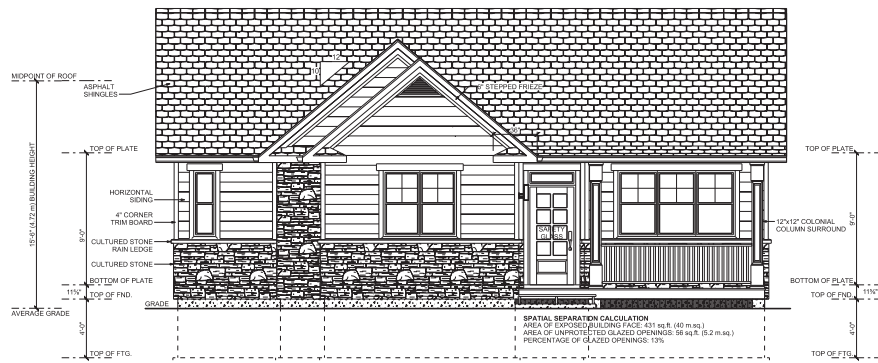
SHEET NO.
A1

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BARNETT CONSTRUCTION
DESIGN BY: A.J.G. DATE: JANUARY 26, 2017
DRAWN BY: A.J.G. REVISED:

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ATTACHMENT A

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 # Z17-0022

City of Kelowna
 COMMUNITY PLANNING

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EXTERIOR ELEVATIONS

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PLAN NO.
 WP-5498

SHEET NO.
 A5

BARNETT CONSTRUCTION

DESIGN BY: A.J.G. DATE: JANUARY 26, 2017
 DRAWN BY: A.J.G. REVISED:

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