CITY OF KELOWNA

MEMORANDUM

Date:

April 25, 2018

File No.:

Z18-0036

To:

Community Planning (JR)

From:

Development Engineering Manager

Subject:

5165 Lakeshore Road

Lot 11 Plan 8976

RR2 to RR2C

Development Engineering Services have the following requirements associated with this rezoning application;

1. Domestic Water and Fire Protection

The property is located in South Mission Water ESA 14 CWS-20 The water charge for this property as proposed is an additional 0.5 equivalent dwelling units (EDU). therefore the fee is (0.5 of \$4,029.00) **\$2,014.50** (effective to 2018-09-29)

2. Sanitary Sewer

The property is located in Sewer Connection Area No. 28 (Okaview). The sewer charge for this property as proposed is 0.5 equivalent dwelling units (EDU). Therefore, the fee is (0.5 of \$16,200) **\$8,100.00**.

James Kay , P. Eng.

Development Engineering Manager

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We are proposing to build a small, one level, two bedroom home of approximately 100 m sq (1074sq ft) for my elderly parents. The carriage house will be their permanent residence.

The carriage house will be designed to blend with our existing home and feature a low slope/flat roof and similar exterior finish and design. The carriage house will have a two car garage

The carriage house will be positioned between our existing home and Lakeshore Road. The carriage house's one level design, it's low slope roof and it's position on the lot, tucked into the curve of the existing driveway and set into the natural slope will ensure that the lake views of the main house and neighbouring properties are not obstructed.

Construction of the carriage house will require the removal of one, possibly two existing large fir trees from the lower level of our lot. The removal of the tree/s will likely improve the lake views for the neighbouring properties.

A short driveway spur will be added to our existing driveway to provide access to the carriage house's garage. Landscapeing around the carriage housewill match the rest of the property and will lean towards low maintenance and low water use.

ADDRESS: 5165 Lakeshore Road, Kelowna, BC, V1W 4J1

LEGAL DESCRIPTION: Lot 11 section 23 township 28 Similkameen division Yale district plan 8976

THERRIEN CARRIAGE HOUSE: Ken & Darlene Therrien, 778 477-4549, ken.therrien@ddbkidthink.com

ADDRESS 5165 Lakeshore Road, Kelowna, BC, V1W 4J1

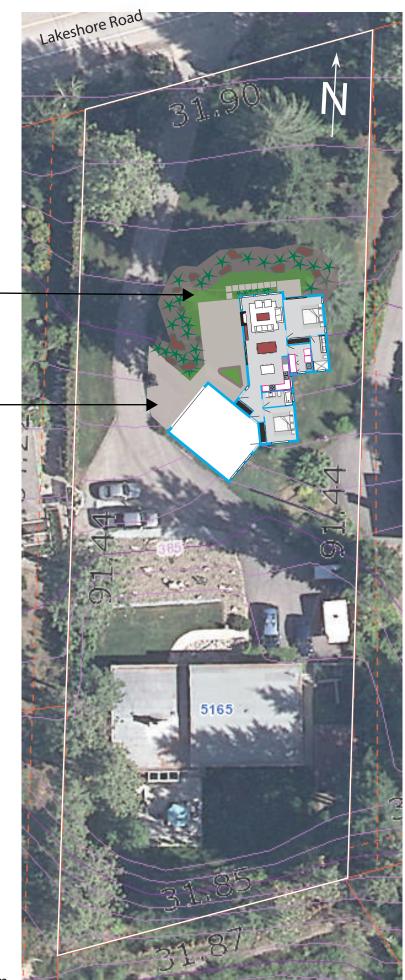
LEGAL DESCRIPTION Lot 11 section 23 township 28 Similkameen division Yale district plan 8976

THERRIEN CARRIAGE HOUSE Ken & Darlene Therrien 778 477-4549 ken.therrien@ddbkidthink.com

Proposed landscaping to match existing landscaping on the rest of the property:

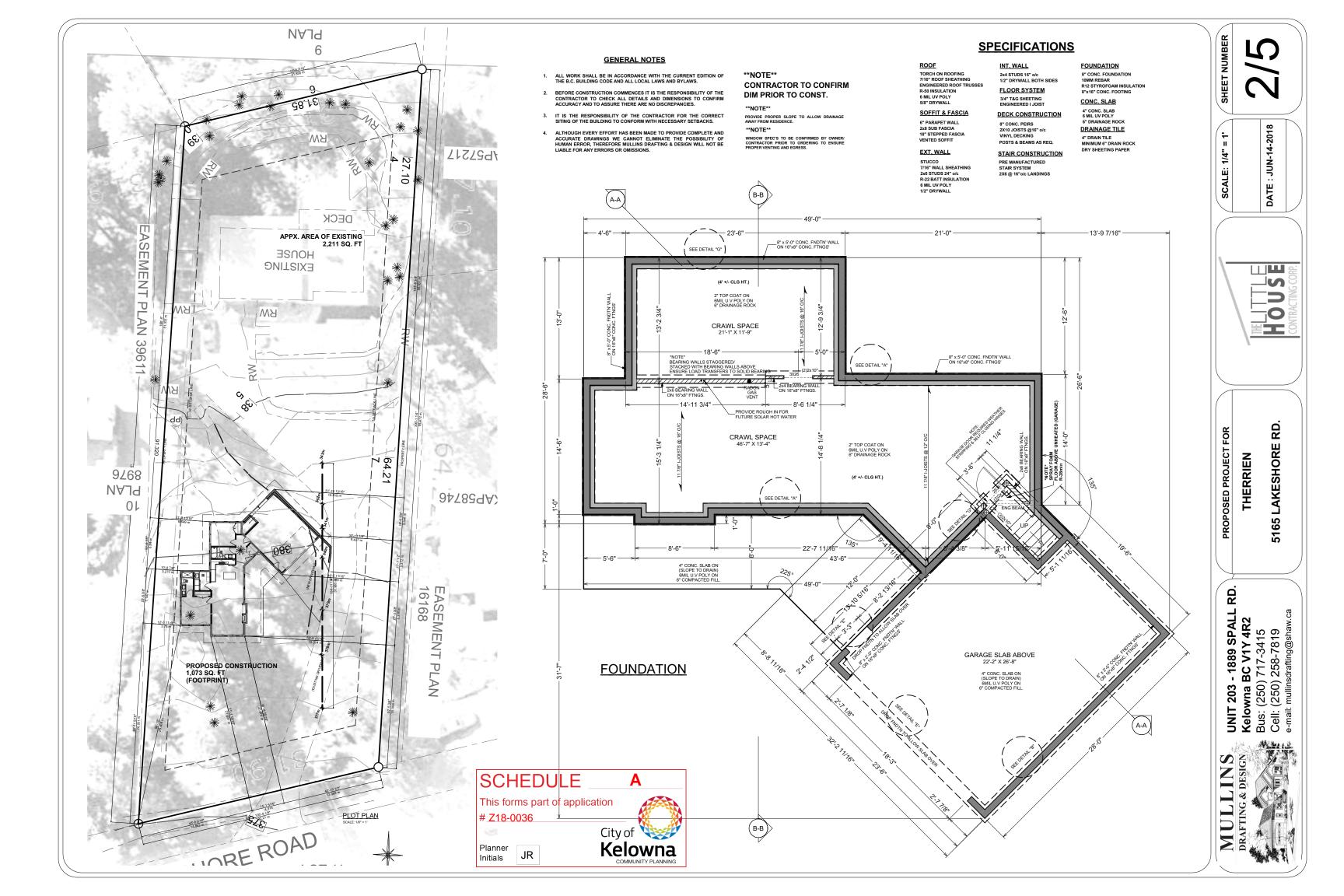
Grass lawn, above sloped bank covered with decorative rock/boulders and planted with low water use decorative grasses and junipers.

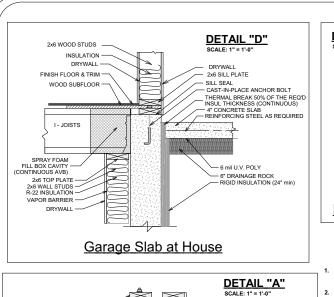
Short driveway spur connects carriage house garage with existing drive





Scale: 1cm = 4m

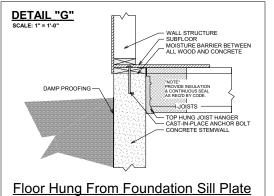




THERMAL BREAK 50% OF THE REQ'D NSUL THICKNESS (CONTINUOUS)

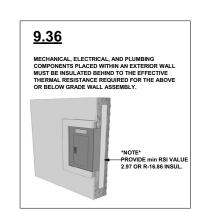
2x6 TREATED BOTTOM PLATE
2" CONCRETE TOP COAT
REINFORCING STEEL AS REQUIRED
6" DRAINAGE LAYER

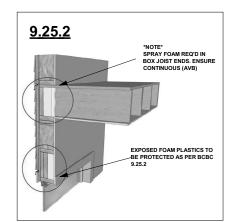
CONCRETE FOUNDATION WALL —
REINFORCING STEEL AS REQUIRED
CONCRETE FOOTING —

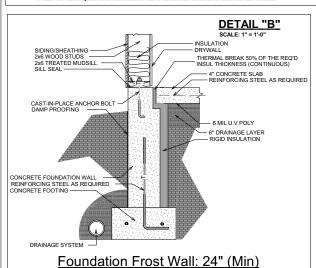


GENERAL NOTES

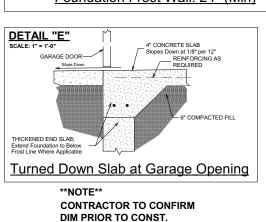
- 1. ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE B.C. BUILDING CODE AND ALL LOCAL LAWS AND BYLAWS.
- BEFORE CONSTRUCTION COMMENCES IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK ALL DETAILS AND DIMENSIONS TO CONFIRM ACCURACY AND TO ASSURE THERE ARE NO DISCREPANCIES.
- 3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR FOR THE CORRECT
- 4. ALTHOUGH EVERY EFFORT HAS BEEN MADE TO PROVIDE COMPLETE AND ACCURATE DRAWINGS WE CANNOT ELIMINATE THE POSSIBILITY OF HUMAN ERROR, THEREFORE MULLINS DRAFTING & DESIGN WILL NOT BE LIABLE FOR ANY ERRORS OR OMISSIONS.





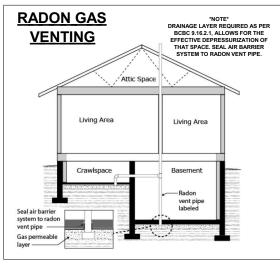


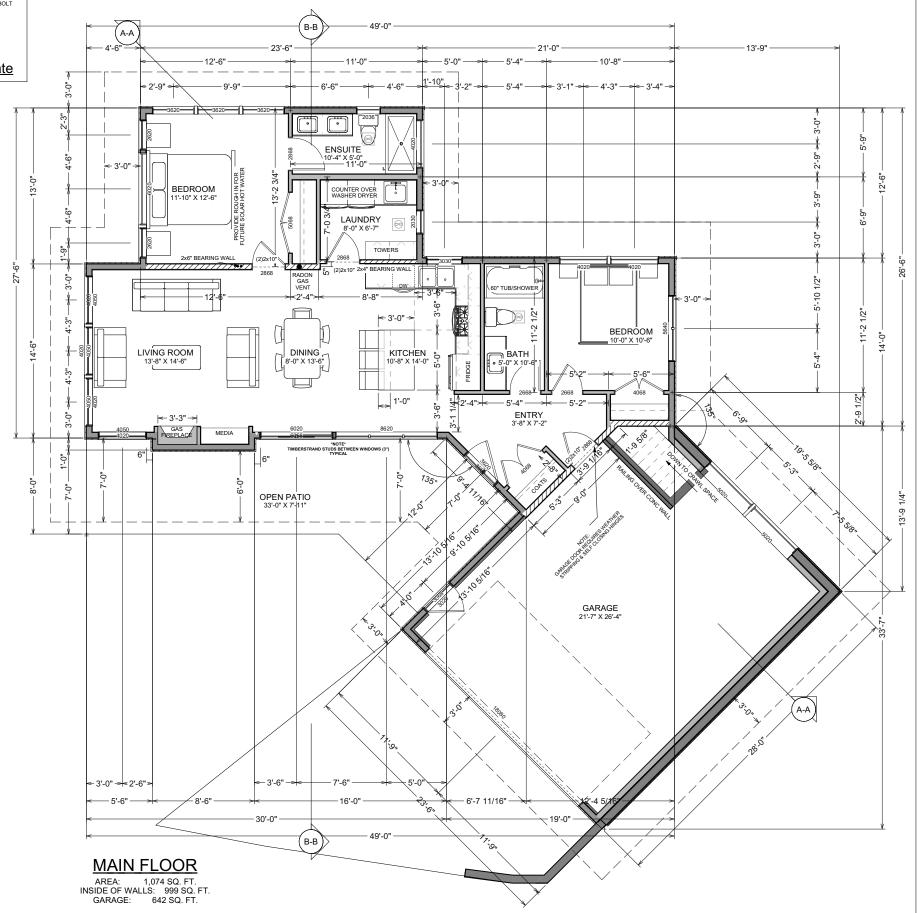
Crawl Space: 8" Conc Foundation Wall



PROVIDE PROPER SLOPE TO ALLOW DRAINAGE AWAY FROM RESIDENCE.

NOTE





SCHEDULE

JR

Z18-0036

Planner

Initials

This forms part of application

City of

Kelowna

SHEET NUMBER

1/4"

SCALE:

DATE: JUN-14-2018

RD.

LAKESHORE

5165

PROPOSED PROJECT FOR

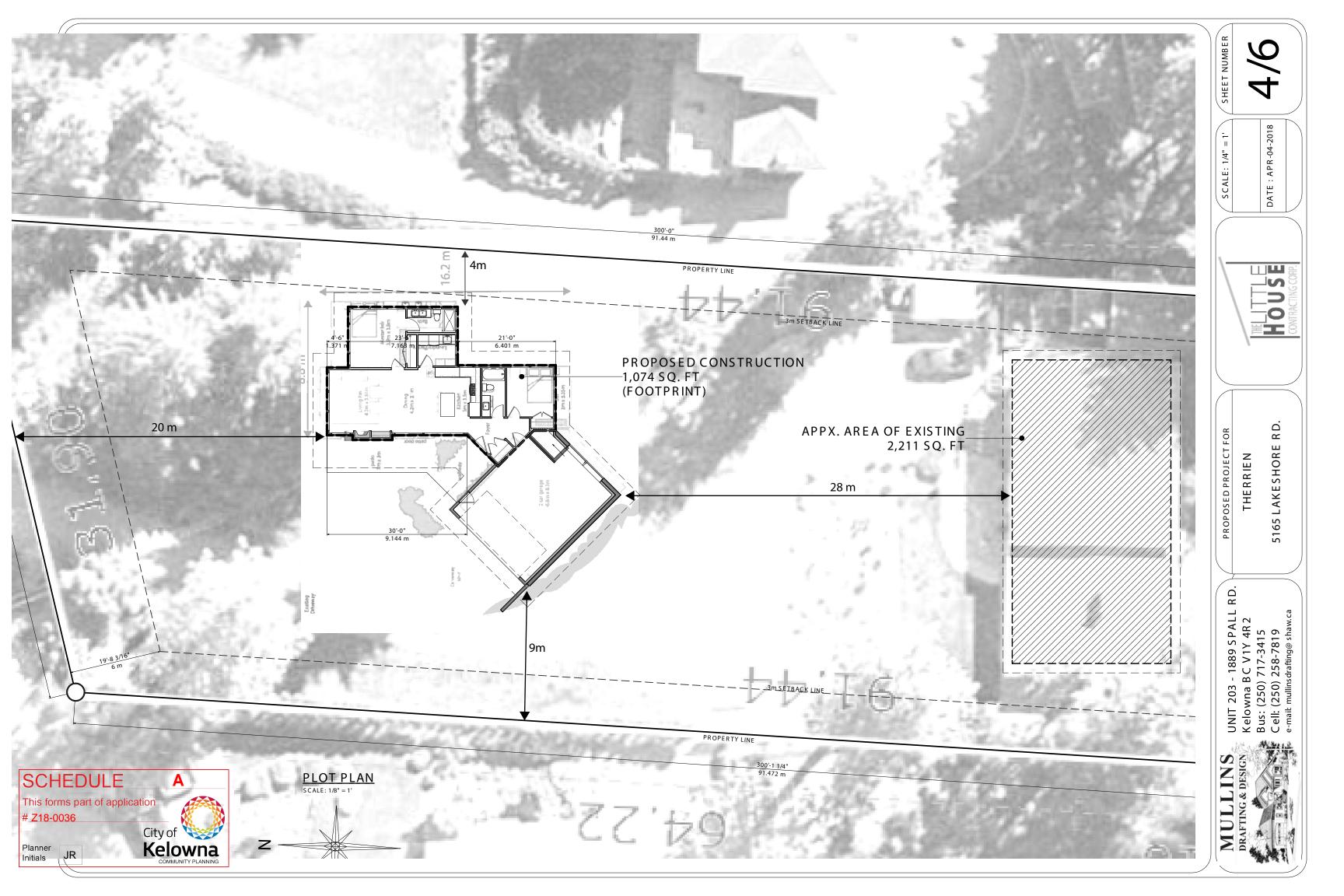
RD.

MULLINS DRAFTING & DESIGN

UNIT 203 - 1889 SPALL R Kelowna BC V1Y 4R2 Bus: (250) 717-3415 Cell: (250) 258-7819 e-mail: mullinsdrafting@shaw.ca

(8.3

THERRIEN



S C A L E: 1/4" = 1'

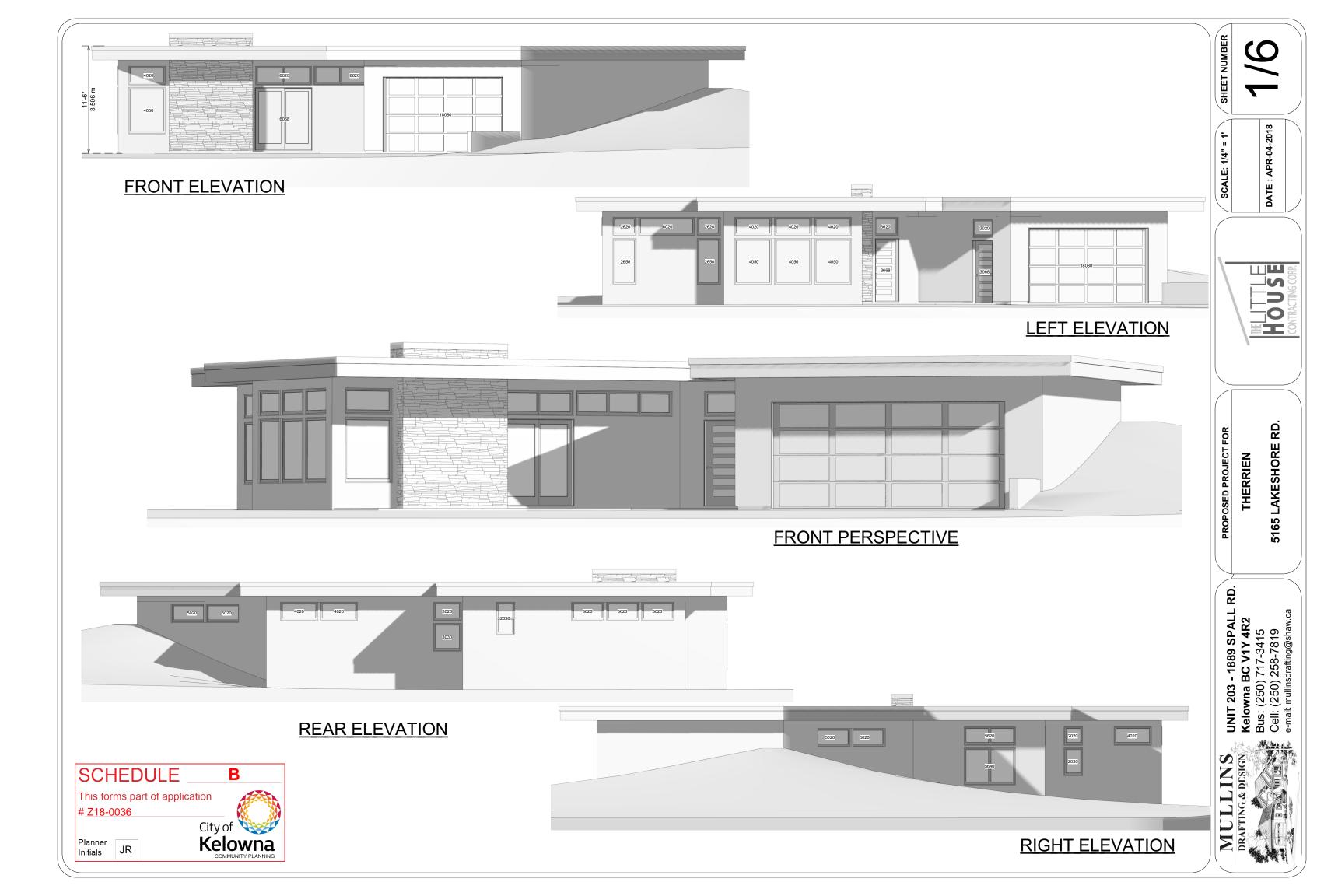
DATE: APR-04-2018

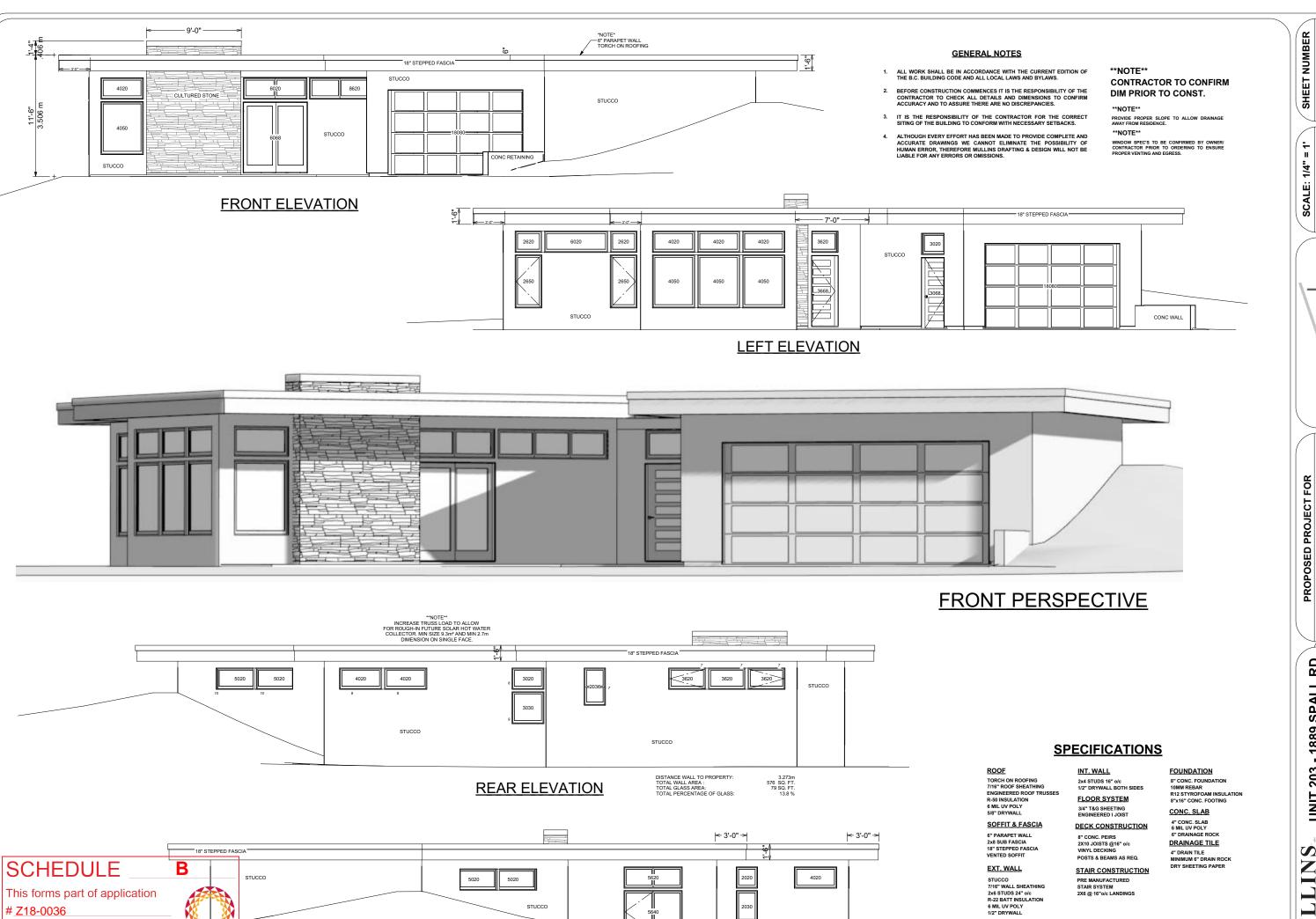
HOUSE

PROPOSED PROJECT FOR THERRIEN 5165 LAKESHORE RD.

UNIT 203 - 1889 SPALL RD. Kelowna BC V1Y 4R2
Bus: (250) 717-3415
Cell: (250) 258-7819
e-mail: mullinsdrafting@ shaw.ca







STUCCO

This forms part of application

City of

Kelowna

RIGHT ELEVATION

#<u>Z18-0036</u>

JR

Planner

Initials

DATE: JUN-14-2018

> RD. LAKESHORE THERRIEN 5165

UNIT 203 - 1889 SPALL RD. Kelowna BC V1Y 4R2
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e-mail: mullinsdrafting@shaw.ca

MULLINS DRAFTING & DESIGN

PRE MANUFACTURED STAIR SYSTEM 2X6 @ 16"o/c LANDINGS

<u>9.36.</u>2.6

THERMAL CHARACTERISTICS OF ABOVE GROUND OPAQUE ASSEMBLIES

EFFECTIVE RSI-VALUES (WITH HRV)

CLIMATE ZONE (HEATING DEGREE DAYS DEGREES CELSIUS)

ASSEMBLY

	(4)	(5)	(6)	(7)A	(7)B
CEILINGS	6.91 (39.23)	6.91 (39.23)	8.67 (49.2)	8.67 (49.2)	10.43 (59.2)
CATHEDRAL CEILINGS	4.67 (26.5)	4.67 (26.5)	4.67 (26.5)	5.02 (28.5)	5.02 (28.5)
WALLS (2x6 @ 16")	2.78 (15.75)	2.97 (16.86)	2.97 (16.86)	2.97 (16.86)	3.08 (17.48)
FLOORS OVER UNHEATED SPACE	4.67 (26.5)	4.67 (26.5)	4.67(26.5)	5.02 (28.5)	5.02 (28.5)

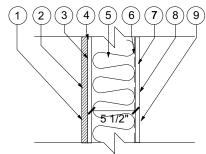
NOTE

MINIMUM REQUIREMENTS.

WALL ASSEMBLY W5 WALL ASSEMBLY

STUCCO CLADDING

COMPONENTS	RSI	R
1 . EXTERIOR AIR FILM	0.03	0.17
2. STUCCO CLADDING (15mm)	.0135	0.08
3. ASPHALT IMPREGNATED PAPER	0.00	0.00
4. 7/16" (11.1 mm) OSB SHEATHING	0.11	0.62
5. 2x6 FRAMING FILLED WITH R22 BATT @ 24" O/C	2.67	15.16
6. POLYETHYLENE	0.00	0.00
7. 1/2" (12.7mm) GYPSUM BOARD	0.08	0.45
8. FINISH: 1 COAT LATEX PRIMER AND LATEX PAINT	0.00	0.00
9. INTERIOR AIR FILM	0.12	0.68



ENERGY EFFICIENCY REQUIREMENTS AS PER BCBC 9.36

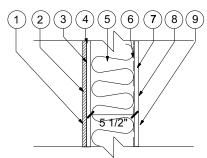
TO MEET THE MINIMUM (EFFECTIVE) RSI VALUE FOR THE WALL ASSEMBLY OF 2.97 OR R-VALUE OF 16.86 AN HRV MUST BE INCORPORATED INTO THIS DESIGN.

EFFECTIVE RSI / R VALUE OF 3.0235 17.16 ENTIRE ASSEMBLY

2x6 EXTERIOR (GARAGE TO HOUSE)

W3

COMPONENTS	RSI	R
1 . EXTERIOR AIR FILM	0.03	0.17
2. 1/2" (12.7mm) GYPSUM BOARD	0.08	0.45
3. ASPHALT IMPREGNATED PAPER	0.00	0.00
4. 7/16" (11.1 mm) OSB SHEATHING	0.11	0.62
5. 2x6 FRAMING FILLED WITH R22 BATT @ 24" O/C	2.67	15.16
6. POLYETHYLENE	0.00	0.00
7. 1/2" (12.7mm) GYPSUM BOARD	0.08	0.45
8. FINISH: 1 COAT LATEX PRIMER AND LATEX PAINT	0.00	0.00
9. INTERIOR AIR FILM	0.12	0.68



ENERGY EFFICIENCY REQUIREMENTS AS PER BCBC 9.36

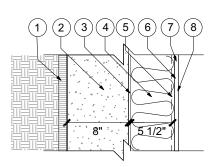
TO MEET THE MINIMUM (EFFECTIVE) RSI VALUE FOR THE WALL ASSEMBLY OF 2.97 OR R-VALUE OF 16.86 AN HRV MUST BE INCORPORATED INTO THIS DESIGN

EFFECTIVE RSI / R VALUE OF 3.09 17.53 **ENTIRE ASSEMBLY**

WALL ASSEMBLY

BELOW GRADE (GARAGE TO HOUSE)

COMPONENTS	RSI	R
1. 2" RIGID INSULATION (R-10)	1.76	10.0
2. 8" REINFORCED CONCRETE WALL	0.08	0.45
3. 1/2" AIR GAP	0.16	0.91
4. 2x6 FRAMING FILLED WITH R22 BATT @ 24" O/C	2.67	15.16
5. POLYETHYLENE	0.00	0.00
6. 1/2" (12.7mm) GYPSUM BOARD	0.08	0.45
7. FINISH: 1 COAT LATEX PRIMER AND LATEX PAINT	0.00	0.00
8. INTERIOR AIR FILM	0.12	0.68



ENERGY EFFICIENCY REQUIREMENTS AS PER BCBC 9.36

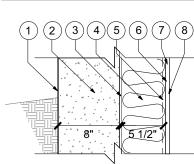
TO MEET THE MINIMUM (EFFECTIVE) RSI VALUE FOR THE WALL ASSEMBLY OF 2.98 OR R-VALUE OF 16.9 AN HRV MUST BE

EFFECTIVE RSI / R VALUE OF ENTIRE ASSEMBLY

4.87 27.65

BELOW GRADE

COMPONENTS	RSI	R
1. DAMP PROOFING	0.03	0.17
2. 8" REINFORCED CONCRETE WALL	0.08	0.45
3. 1/2" AIR GAP	0.16	0.91
4. 2x6 FRAMING FILLED WITH R22 BATT @ 24" O/C	2.67	15.16
5. POLYETHYLENE	0.00	0.00
6. 1/2" (12.7mm) GYPSUM BOARD	0.08	0.45
7. FINISH: 1 COAT LATEX PRIMER AND LATEX PAINT	0.00	0.00
8. INTERIOR AIR FILM	0.12	0.68



ENERGY EFFICIENCY REQUIREMENTS AS PER BCBC 9.36

TO MEET THE MINIMUM (EFFECTIVE) RSI VALUE FOR THE WALL ASSEMBLY OF 2.98 OR R-VALUE OF 16.9 AN HRV MUST BE INCORPORATED INTO THIS DESIGN.

EFFECTIVE RSI / R VALUE OF **ENTIRE ASSEMBLY**

3.14 17.82 | ENTIRE ASSEMBLY

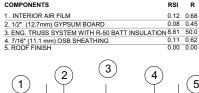
R-50 INSULATION " STEPPED __ FASCIA W1 | WALL ASSEMBLY **W2** --- PLATES EXTERIOR FINISH SHEATHING INSULATION

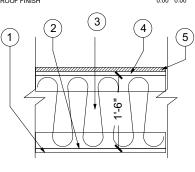
ROOF ASSEMBLY

EFFECTIVE RSI / R VALUE OF

ENG. FLAT ROOF SYSTEM (PARALLEL CHORD TRUSS)

SEE DÉTAIL "P'





9.12 51.75

GENERAL NOTES

ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE B.C. BUILDING CODE AND ALL LOCAL LAWS AND BYLAWS.

REFER TO MNFR SPEC

BEFORE CONSTRUCTION COMMENCES IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK ALL DETAILS AND DIMENSIONS TO CONFIRM ACCURACY AND TO ASSURE THERE ARE NO DISCREPANCIES.

ENG ROOF TRUSSES

ENG ROOF TRUSSES

2x4 BEARING WALL ON 16x8 CONC FTG

DETAIL "P"

R1

- SLOPE TO DRAIN

2" TOP COAT —6MIL U.V POLY ON 6" COMPACTED FI

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR FOR THE CORRECT SITING OF THE BUILDING TO CONFORM WITH NECESSARY SETBACKS.
- ALTHOUGH EVERY EFFORT HAS BEEN MADE TO PROVIDE COMPLETE AND ACCURATE DRAWINGS WE CANNOT ELIMINATE THE POSSIBILITY OF HUMAN ERROR, THEREFORE MULLINS PRAFTING & DESIGN WILL NOT BE LIABLE FOR ANY ERRORS OR OMISSIONS.

CODES AND STANDARDS

At the time of preparation, this plan was drawn in accordance with the current edition of the B.C. Building Code. It is the responsibility of the owner/builder to insure that changes made to the code are compiled with

CONCRETE & FOOTINGS

concrete footings must be placed on undisturbed or compacted soil to in elevation below frost penetration. Footings shown on these drawings have been designed for soil bearing capacity 07.250 PSF. If a lesser pearing capacity is encountered, it is the responsibility of the owner/ builder to have the footings redesigned by qualified persons to suit

All foundation walls 24" (600 mm) and higher should have one horizontal 10 mm reinforcing bar 3" (75 mm) from the top. Corner reinforcing to be larged ministry 2" (600 mm).

ROOF

SECTION B-B

TORCH ON ROOFING 7/16" ROOF SHEATHING 6 MIL UV POLY

ABOVE GRADE MASONRY

CARPENTRY

Framing lumber shall be number two (2) or better Spruce unless otherwise specified on the plan. All beam and lintel sizes shown on the drawings to be reviewed & confirmed by truss manufacturer and contractor. Any beam or lintel sizes provided by truss/floor manufacturer take precedence

GARAGE

SECTION A-A

SOFFIT & FASCIA

6" PARAPET WALL 2x8 SUB FASCIA 18" STEPPED FASCI VENTED SOFFIT

EXT. WALL

SPECIFICATIONS

INT. WALL 2x4 STUDS 16" o/c 1/2" DRYWALL BOTH SIDES FLOOR SYSTEM

DECK CONSTRUCTION

8" CONC. PEIRS 2X10 JOISTS @16" o/c POSTS & BEAMS AS REQ.

STAIR CONSTRUCTION

PRE MANUFACTURED STAIR SYSTEM 2X6 @ 16"o/c LANDINGS

PROPOSED PROJECT

FOUNDATION 8" CONC. FOUNDATION 10MM REBAR R12 STYROFOAM INSULATION 8"x16" CONC. FOOTING

CONC. SLAB 4" CONC. SLAB 6 MIL UV POLY 6" DRAINAGE ROCK

SEE DETAIL "

DRAINAGE TILE

INSULATION / VENTILATION

Roof/Ceiling – R 50 Walls – 2 x 6 – R 22

MISCELLANEOUS

SHEET NUMBER

SCALE:

DATE: JUN-14-2018



RD. LAKESHORE THERRIEN 5165

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INS (F 3 3



