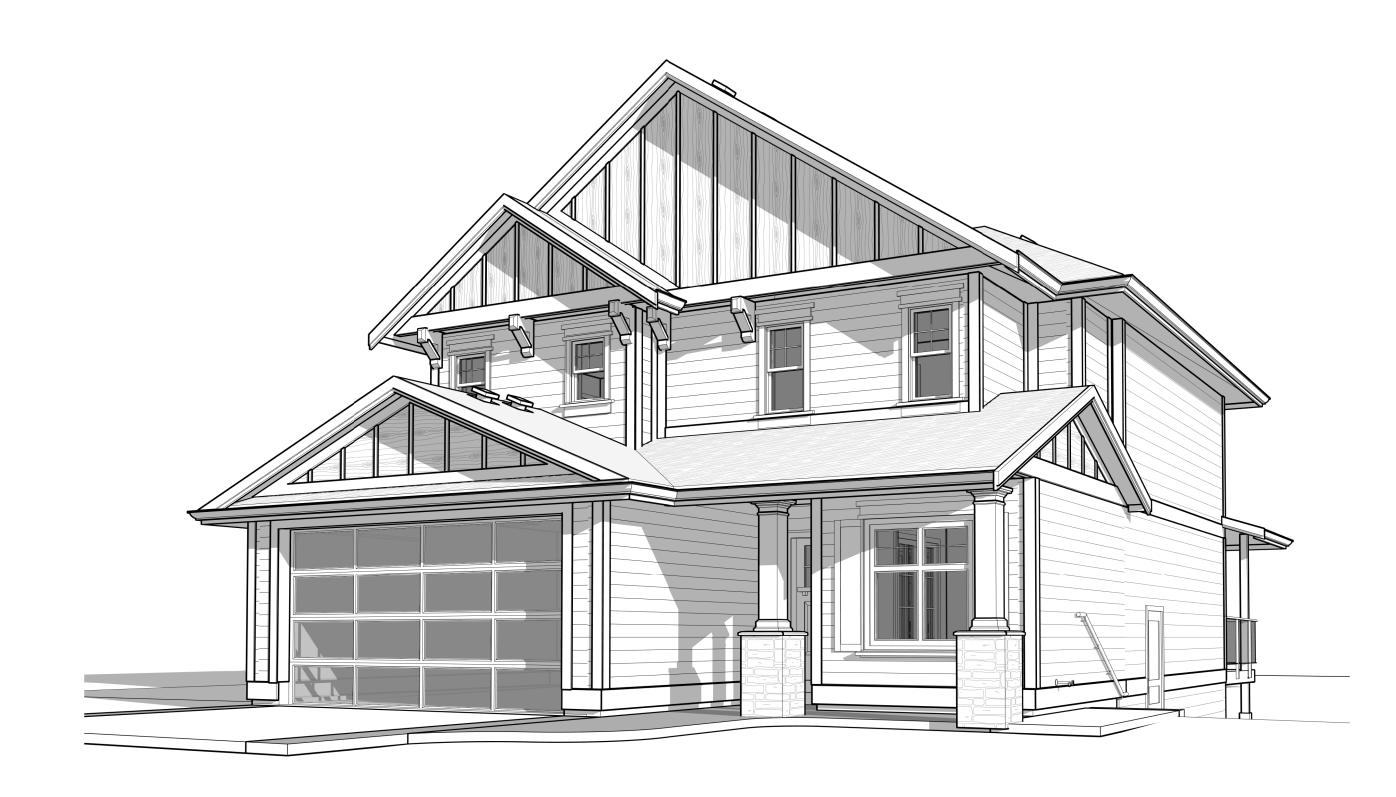
NEW HOME FOR

AMBSTEP HOMES

Collins Drive (Lot 3), Chilliwack BC



FRONT PERSPECTIVE

1. These drawings and the ideas contained in them are, and remain, the exclusive property of Guliker Design Group Inc. 2. The Builder shall check and verify all drawings and dimensions for accuracy prior to the commencement of construction 3. Drawings may be scaled, but written dimensions shall take precedence. 4. Construction materials and procedures shall conform to the requirements outlined in the B.C. Building code 2012 edition and all addenda thereto, as well as any applicable local bylaws. 5. The contractor shall take precautions as outlined by the Canadian Construction Safety Code to ensure the Public's

6. The Contractor shall take adequate precautions to store materials properly on site to save them from damage. 7. Where applicable: read these drawings in conjunction with Structural, Mechanical, Electrical, Geotechnical, Civil and shop drawings prepared by other consultants. 8. The contractor shall be responsible for taking out all relevant permits, and shall call for all necessary inspections by the authority having jurisdiction.

B. SITE WORK

1. Slope all finished grades away from the building at a minimum of 1% to facilitate run-off of surface water. The builder shall check and verify all drawings and dimensions for accuracy prior to commencement of construction. Do not drain surface water onto adjacent properties. 4. Graded slopes shall not exceed the natural angle of repose for the type of material being used unless the builder shall take precautions as outlined by the Canadian Construction Safety to ensure the public approved counteracting measures

5. Building site survey is required prior to pouring foundation walls.

C. FOUNDATIONS

1. Footings shall rest on native, undisturbed, inorganic soil below frost penetration. 2. Allow openings in foundations for services as required and to be confirmed before pouring concrete. 3. Do not backfill before floor joists and subflooring are securely in place, or before concrete has reached its 28 day 4. Anchor all plates to foundation with 5/8"Ø X 8" long steel anchor bolts.

5. Protect wood members in contact with concrete with a dampproofing material.

1. Provide 2.5" rigid insulation (RSI 2.1) below all unheated concrete slabs above frost line.

1. All framing to be in accordance with the B.C. Building code or Structural Engineer. All Engineered PSL, LVL, LSL etc...Beams and columns to be confirmed confirmed by a Structural Engineer.
 Contractor shall provide truss shop drawings to Guliker Design Group Inc. for review prior to construction.

1. Provide 1:300 roof venting - 50% spread evenly around perimeter and 50% at ridge.

G. DOORS/WINDOWS AND VENTILATION

1. All windows and their installation shall comply with NAFS Standard specifications as per 9.7.4 of the 2012 B.C. Building

2. Install aluminum flashing over all unprotected exterior wall penetrations. 3. Install screened covers to all vents, ducts, etc... designed to prevent entry of debris, insects, birds, or rain. 4. Install screens to connections between gutters and downspouts (or roof and drains) to prevent entry of debris. 5. Principal ventilation exhaust fan to be provided at a rate of 42 L/s for 380m^2 of floor area and bedrooms as per B.C.

ABBREVIATIONS

A-BOLT

ARCHITECTURAL DRAWINGS A-ROD ANCHOR ROD HDGS H.1.E H.2.E ARFA DRAIN ABOVE FINISHED FLOOR ALUM ALUMINUM ANODIZED **BOTTOM UPPER LAYER** BOTTOM LOWER LAYER ISLL LAM LAV B.W.B BRACED WALL BAND BRACED WALL PANEL B.C.B.C. BC BUILDING CODE BOTTOM CHORD BIFOLD DOOR **BUILDING PAPER** FLUSH BEAM DROPPED BEAM EXTERIOR SIDE LOT LINE LAMINATED STRAND LUMBER PARALLEL STRAND LUMBER LAMINATED VENEER LUMBER TOP UPPER LAYER TOP LOWER LAYER C'SINK CHL CHLG CMU CONC. CP CPT COUNTER SINK CHAIN LINK CHAIN LINK GATE CONCRETE MASONRY UNIT CONCRETE COMPLETE PENETRATION CARPET TILE CERAMIC TILE COMPLETE WITH or COMES WITH DECK DRAIN DIAMETER DEAD LOAD

DRAWINGS

EACH SIDE

EPOXY COATING

EXISTING GRADE

EXISTING GYPSUM BOARD

EXISTING WALL PANEL

EACH END

EXPOSED

FXTFRIOR FLOOR DRAIN FINISHED GRADE FRONT LOT LINE

ANCHOR BOLT

HOLLOW CORE HOT DIPPED GALVANIZED STEEL HOOK ONE END HOOK TWO FNDS HOLLOW METAL HARDWOOD HOT WATER TANK INSULATED INTERIOR SIDE LOT LINE LAMINATE LAVATORY SINK LIVE LOAD LONG LEG VERTICAL LONG LEG HORIZONTAL METERS MECHANICAL MINIMUM NOT APPLICABLE NUMBER ON CENTRE POCKET DOOR PROPERTY LINE POST OVER PRESSURE TREATED REQUIREMENT ROOF DRAIN REINFORCED WITH ROUGH OPENING ROD AND SHELF SMOKE DETECTOR SQUARE METERS SLAB ON GRADE STRUCTURAL

QUANTITY

PRE-ENGINEERED METAL BUILDING SQUARE FEET/FOOT SIMPSON STRONG TIE SHEAR WALL TONGUE AND GROOVE **UNLESS NOTED** UNLESS NOTED OTHERWISE UNDERSIDE VAPOR BARRIER

FIBERGLASS REINFORCED PANELS

GYPSUM BOARD

PROJECT INFORMATION:

SITE ADDRESS:

LOT 3 COLLINS DRIVE, CHILLIWACK, BC

LEGAL DESCRIPTION:

R3 (SMALL LOT ONE FAMILY RESIDENTIAL)

ONE FAMILY RESIDENTIAL (SINGLE FAMILY DETACHED DWELLING)

LOT SIZE: MINUMUM LOT SIZE: 360 M² ACCTUAL LOT SIZE: 360 M²

LOT DIMENSIONS: MINUMUM ALLOWABLE LOT WIDTH: 12.00 M

ACCTUAL LOT WIDTH: 13.063 M ACCTUAL LOT DEPTH: 27.575 M

LOT COVERAGE:

MAXIMUM (ALL STRUCTURES): MAXIMUM ALLOWALBE (Urban Ancillary use): 45m²

FLOOR AREA RATIO:

ACCTUAL FLOOR AREA RATIO:

MAXIMUM ALLOWABLE: 10m (32'-9 5/8") ACCTUAL HEIGHT: 8.07m (26'-5 1/2")

ESLL (exterior side lot line): N/A

SETBACKS:

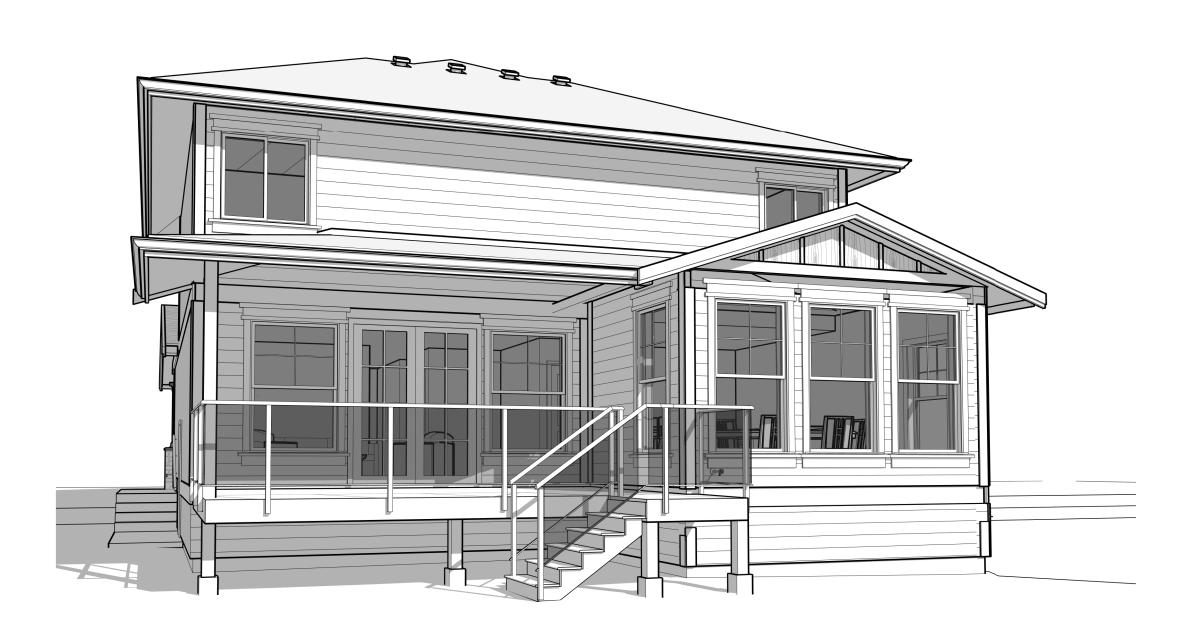
MINIMUM SETBACKS: FLL (front lot line):

RLL (rear lot line): ISLL (inside lot line): ESLL (exterior side lot line):

ACCTUAL SETBACKS: FLL (front lot line):

RLL (rear lot line): ISLL (inside lot line):

BUILDING HEIGHT:



REAR PERSPECTIVE

DRAWING LEGEND SYMBOLS

DIRECTION OF BUILDING OR WALL ELEVATION 1 ELEVATION NUMBER A1.1 — SHEET LOCATION OF ELEVATION

DIRECTION OF BUILDING OR WALL ELEVATION

FI EVATION NI IMPER — ELEVATION NUMBER S0.0 SHEET LOCATION OF ELEVATION

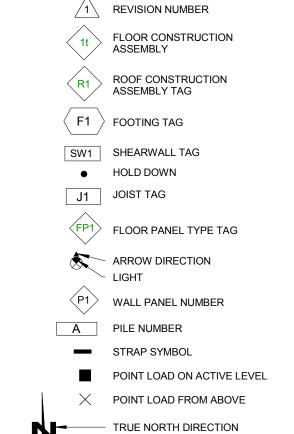
1 — CALLOUT NUMBER A1.1 - SHEET LOCATION OF CALLOUT

> → EXTEND OF CALLOUT / DETAIL 1 DOOR NUMBER SYMBOL 1 WINDOW NUMBER SYMBOL

W1 WALL TYPE SPOT ELEVATION

CO CO DETECTOR SA SMOKE ALARM

SEXHAUST FAN



PROJECT NORTH DIRECTION

		DRAWING LIST	& REVISIONS	
NO.	TITLE	REV#	REV. DATE	REV. DESCRIPTION
a1.1	perspective views			
a2.1	site plan			
a3.1	basement floor plan			
a3.2	main floor & upper floor plans			
a4.1	building elevations			
a4.2	building sections			
a5.1	energy efficiency requirements			
a6.1	building envelope details			
a7.1	3d floor plans			

P15021

tep mbst

604.824.2774 www.guliker.ca info@guliker.ca

CLIENT ADDRESS: Ambstep Homes 9240 Young Road, Chilliwack, BC

Lot 3 Collins Drive Chilliwack BC

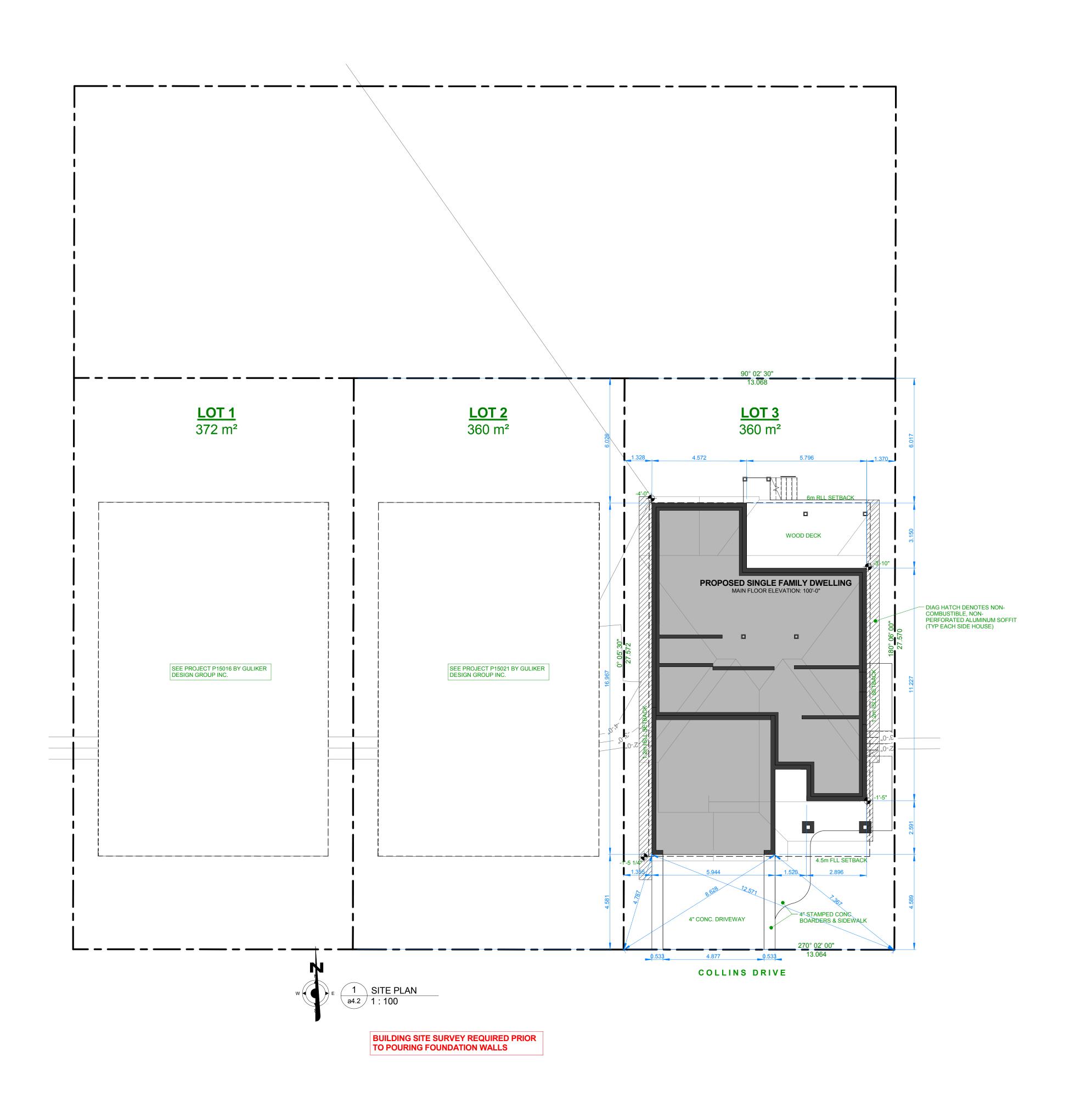
perspective views

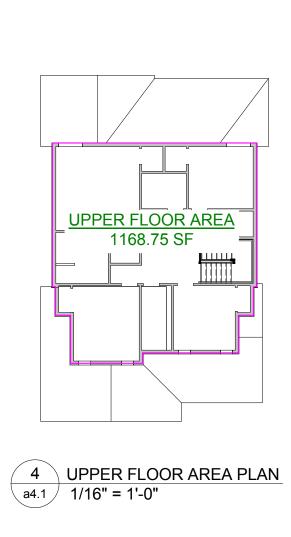
COPYRIGHT RESERVED: property of Guliker Design Group Inc. and only to be used for the address shown above. Unauthorized reproduction of these plans is strictly prohibited.

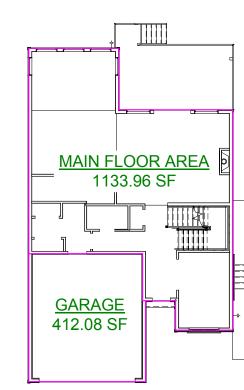
APRIL 29, 2015

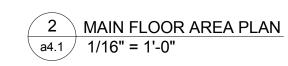
COLOUR PRINTING: Drawings have been prepared in colour for clarity and must be printed in colour. Consultants and Contractors are responsible for any misinterpretations caused as a result of printing in black and white.

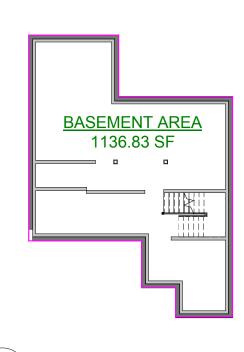
ELEC EWP EXTG

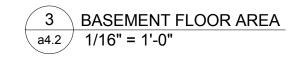


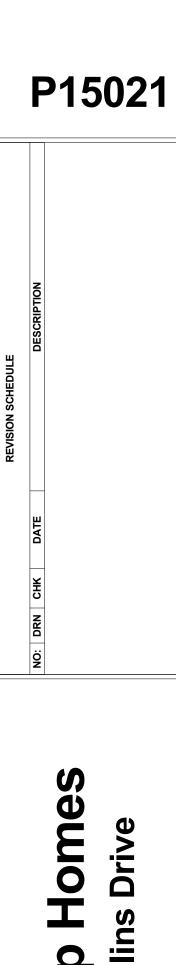












Ambstep Homes
Lot 3 Collins Drive



CLIENT ADDRESS:

Ambstep Homes
9240 Young Road,
Chilliwack, BC

PROJECT:

Lot 3 Collins Drive

Chilliwack BC

TITLE:

site plan

DRN:

JG

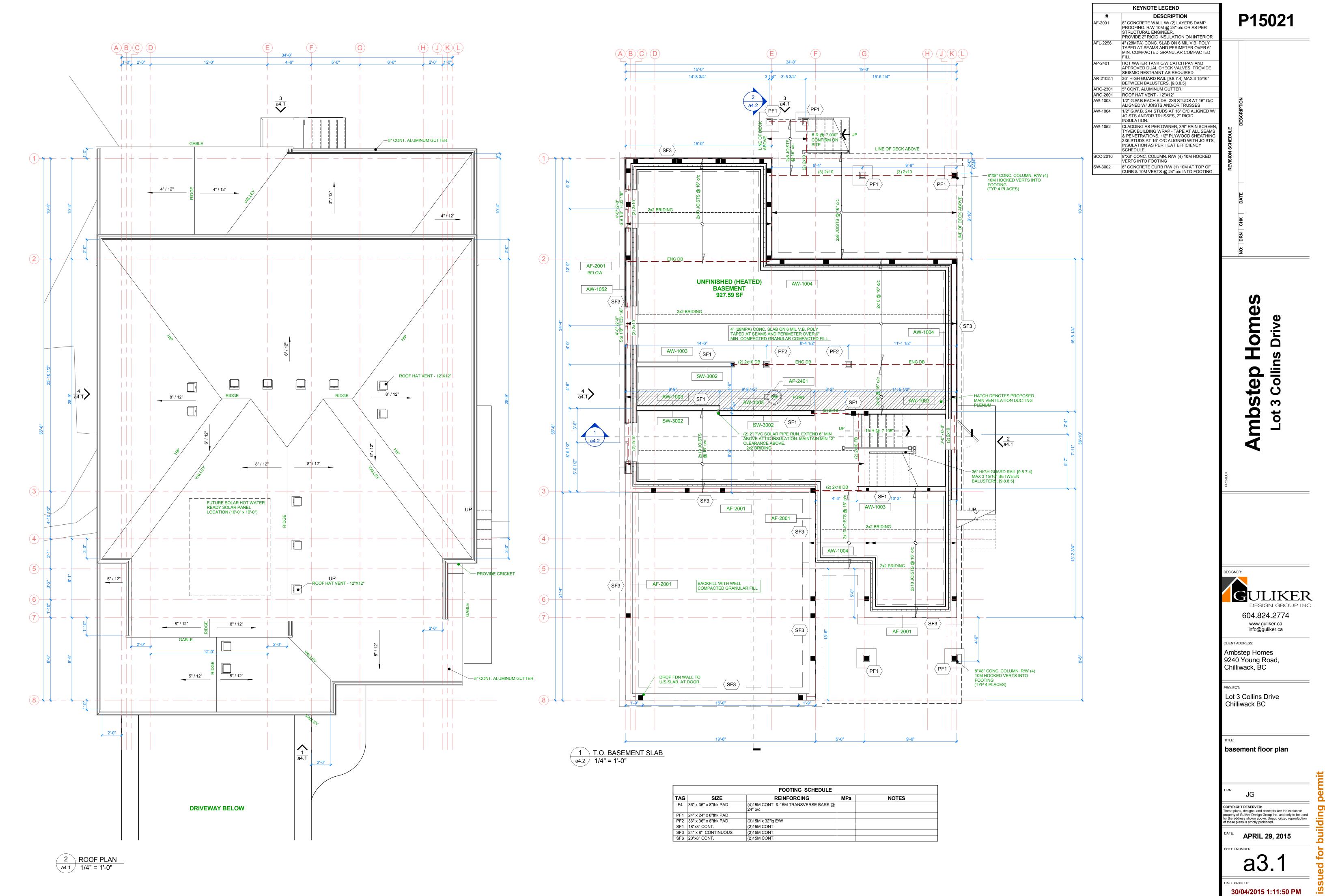
COPYRIGHT RESERVED:
These plans, designs, and concepts are tr

COPYRIGHT RESERVED:
These plans, designs, and concepts are the exclusive property of Guliker Design Group Inc. and only to be used for the address shown above. Unauthorized reproduction of these plans is strictly prohibited.

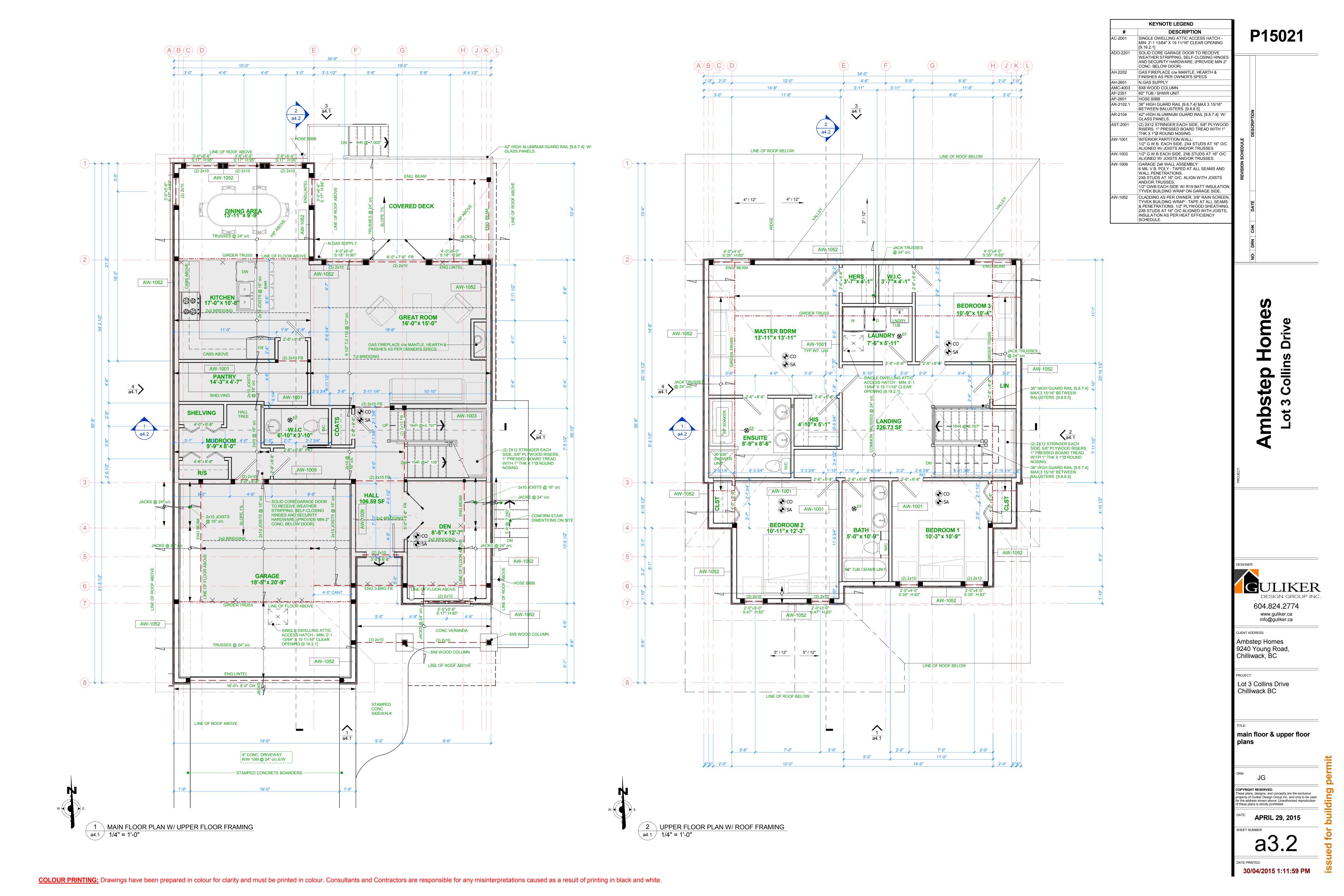
APRIL 29, 2015

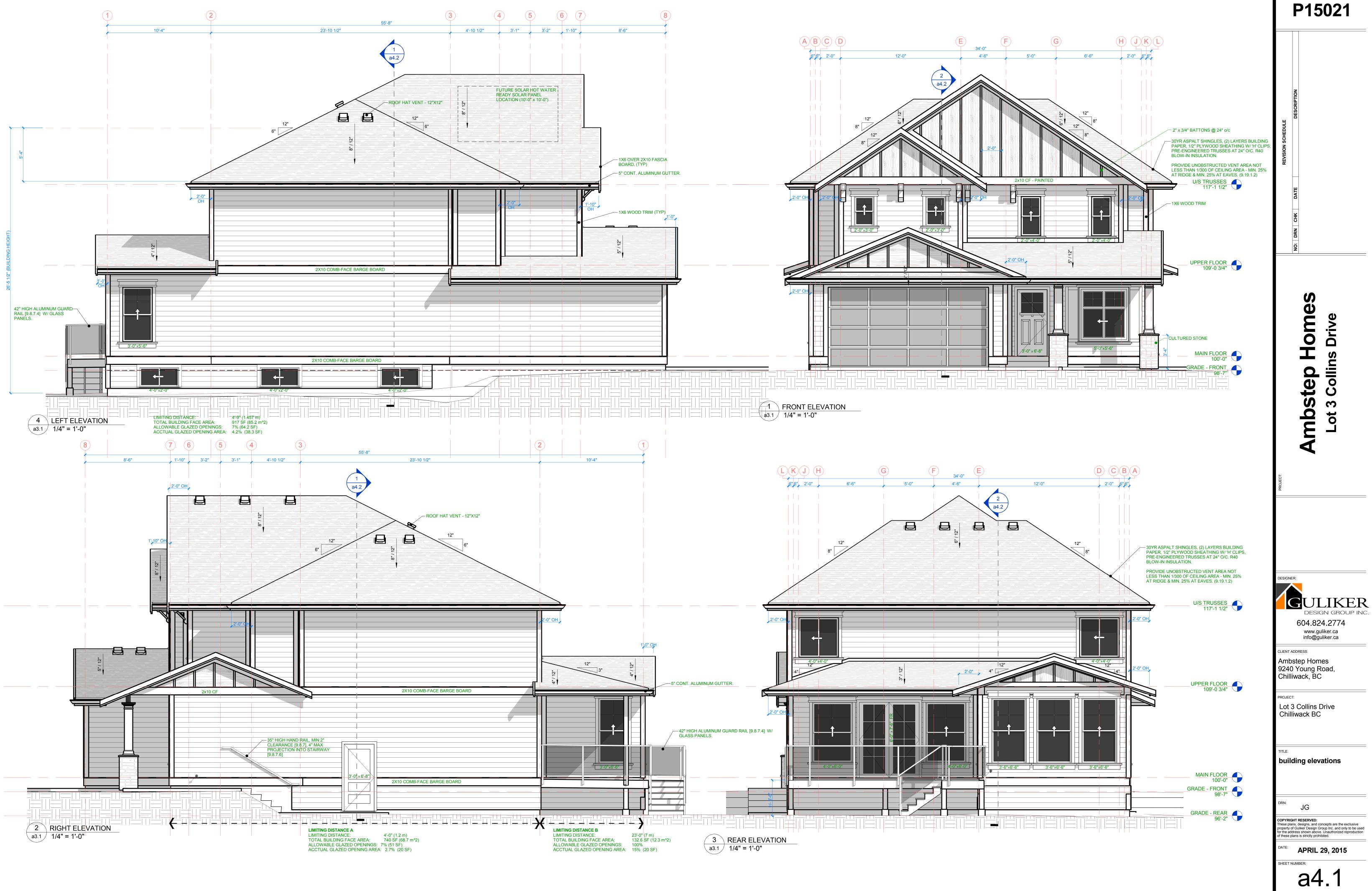
a2.1

30/04/2015 1:11:49 PM



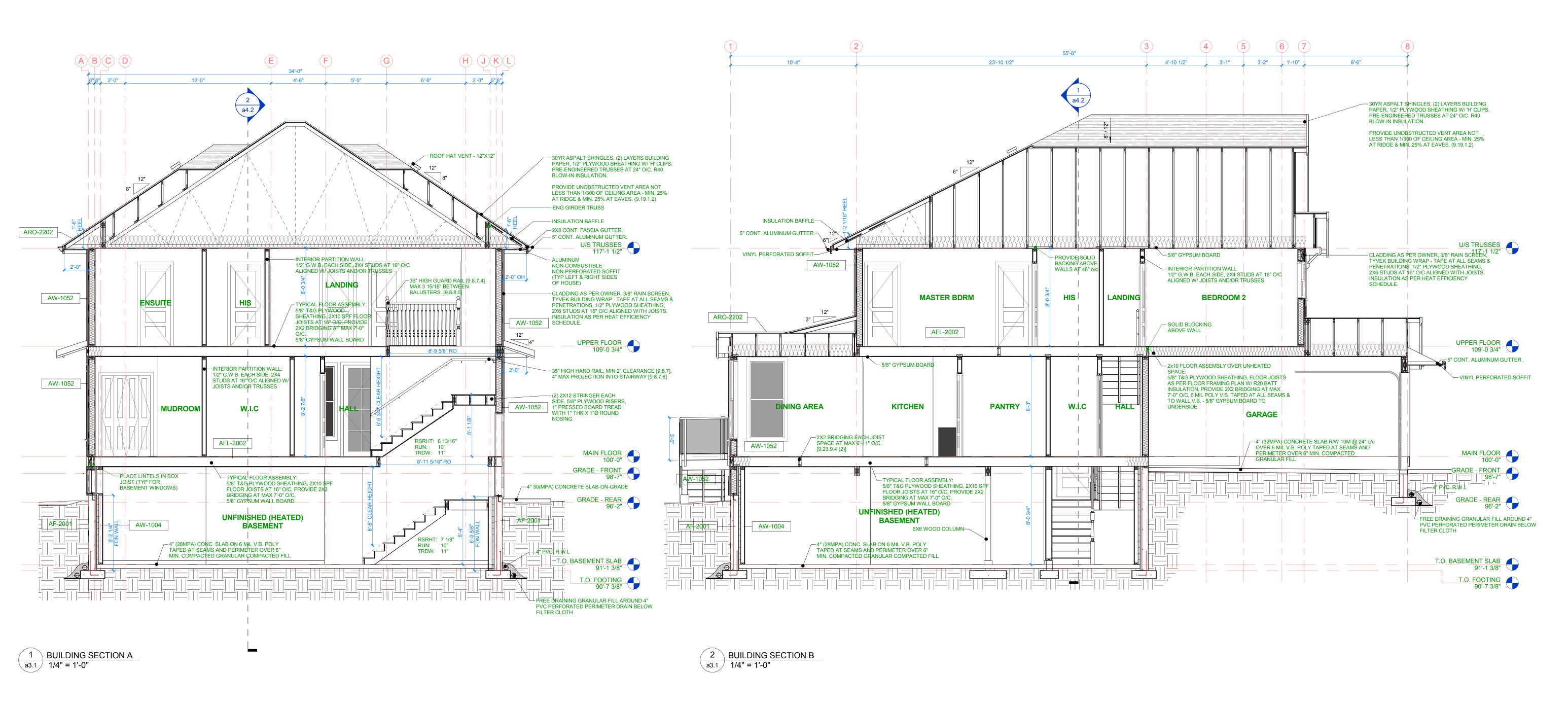
COLOUR PRINTING: Drawings have been prepared in colour for clarity and must be printed in colour. Consultants and Contractors are responsible for any misinterpretations caused as a result of printing in black and white.

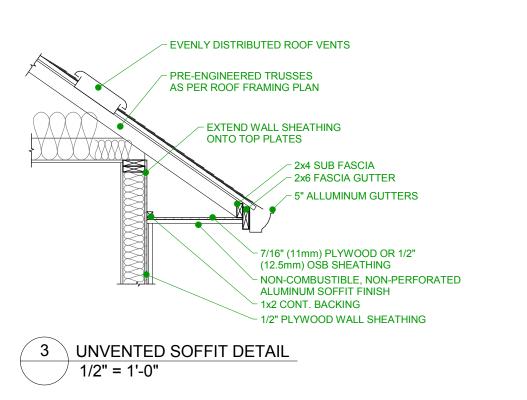




30/04/2015 1:12:14 PM

COLOUR PRINTING: Drawings have been prepared in colour for clarity and must be printed in colour. Consultants and Contractors are responsible for any misinterpretations caused as a result of printing in black and white.





P15021

NO: DRN CHK DATE DESCRIPTION

Ambstep Homes
Lot 3 Collins Drive

DESIGNER:

DESIGN GROUP INC

604.824.2774

www.guliker.ca
info@guliker.ca

info@guliker.ca

CLIENT ADDRESS:

Ambstep Homes
9240 Young Road,
Chilliwack, BC

PROJECT:

Lot 3 Collins Drive

Chilliwack BC

building sections

DRN:

JG

COPYRIGHT RESERVED:
These plans, designs, and concepts are the exclusive property of Guliker Design Group Inc. and only to be used for the address shown above. Unauthorized reproduction of these plans is strictly prohibited.

DATE:

APRIL 29, 2015

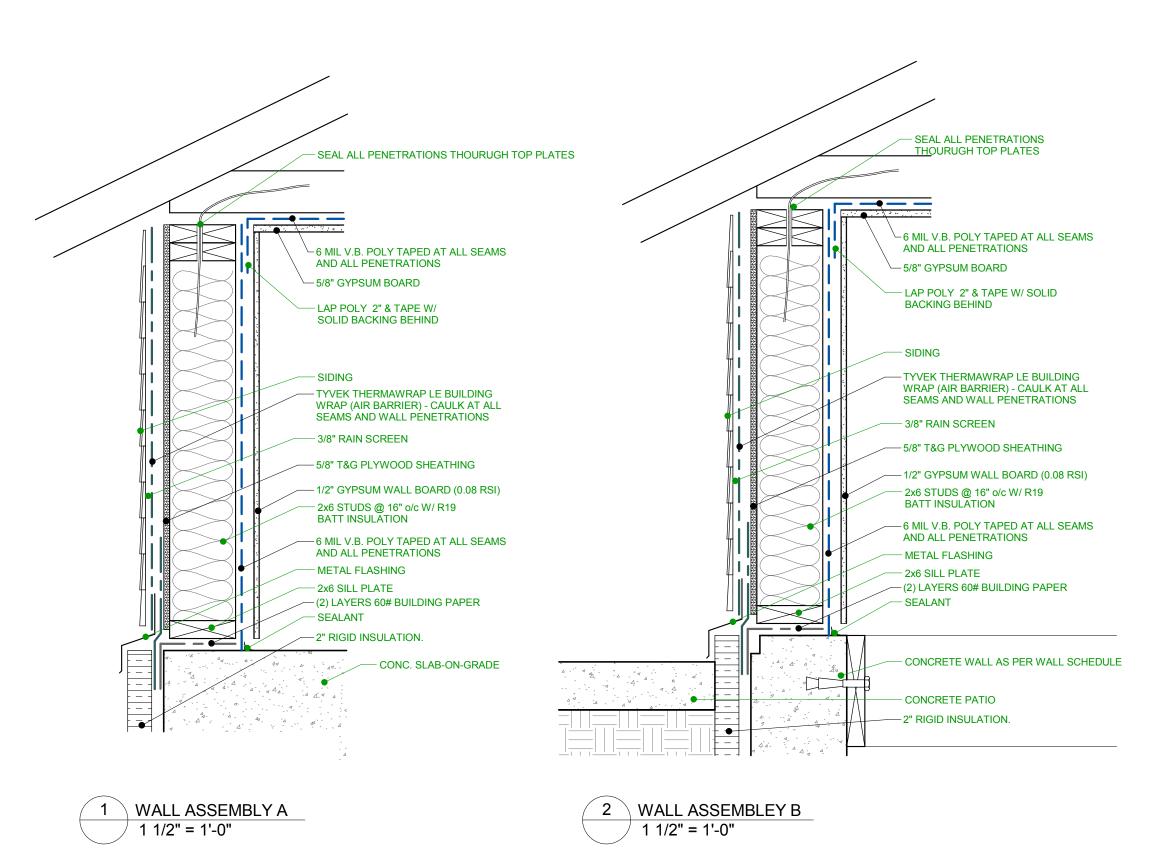
APRIL 29, 2015

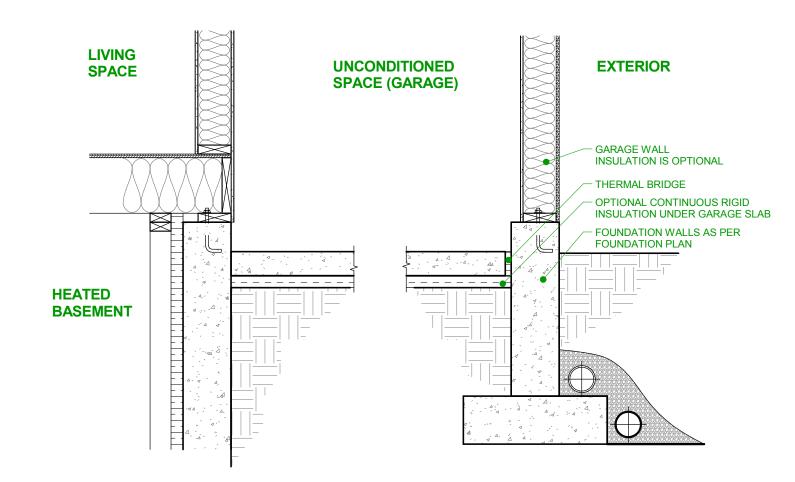
SHEET NUMBER:

44.2

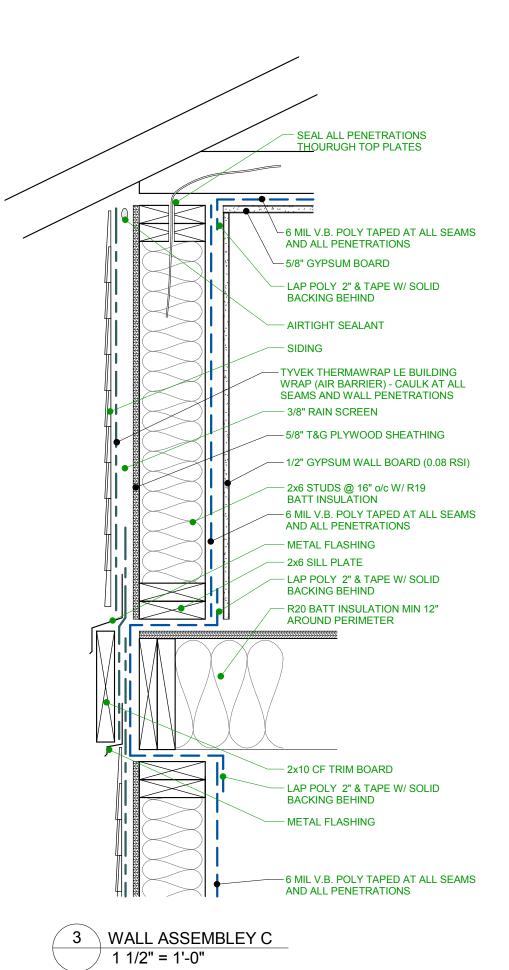
DATE PRINTED: 30/04/2015 1:12:18 PM

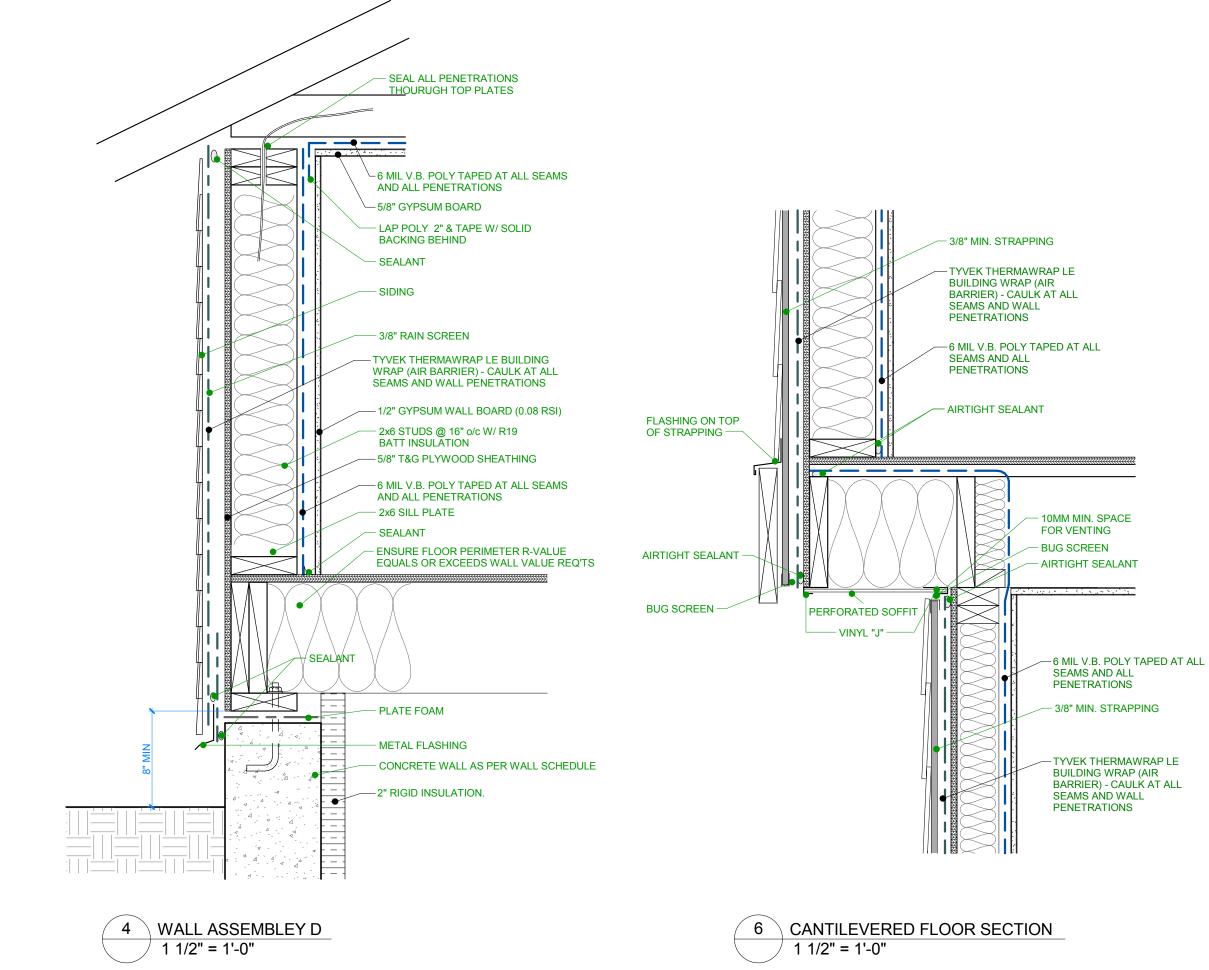
COLOUR PRINTING: Drawings have been prepared in colour for clarity and must be printed in colour. Consultants and Contractors are responsible for any misinterpretations caused as a result of printing in black and white.





5 FOUNDATION OVER UNHEATED SPACE







ENERGY REQUIREMENTS

GENERAL INFORMATION

Prescriptive

Forced air

Zone: 4 < 3000 Compliance Path:

Heat - recovery unit:

Heated floors

Exterior walls

Heated floors Skylight Shafts

Ceilings below attics

Skylights Fenestration & Doors

Min R Values (Without HRV):

S.O.G. (integral footing) Heated floors:

Foundation walls Below frost line:

Unheated floors on permafrost:

Floors over unheated spaces:

Unheated floors above frost line:

Cathedral Ceilings & Flat Roofs

Foundation walls above frost line:

Foundation walls:

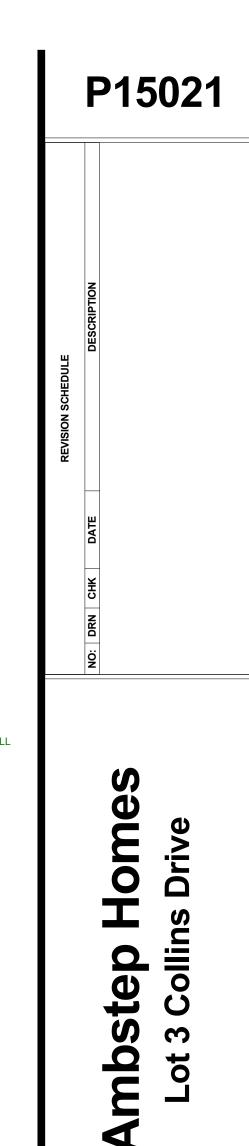
Heating Type:

_		
	MATERIAL	

MATERIAL				TYPE										
			WALL				FLOOR ROOF					F NOTES		
NAME	RSI	R	AW-1009	AW-1052	AW-1055	SW-3020	SW-3001	AF-2001	AFL-2006			ARO-2251	ARO-2252	
WALLS														
Interior Air Film	0.12	0.68												
Exterior Air Film	0.03	0.17												
Paint - 1 coat latex primer & paint	0.00	0.00	2											
Foam board - Expanded polystyrene - 1" thk	0.88	5.00												
Foam board - Extruded Polystyrene - 2" thk	1.76	10.00												
Foam board - Extruded Polystyrene - 3" thk	2.64	15.00												
Foam board - Extruded Polystyrene - 4" thk	3.52	20.00												
Gypsum Wall Board - 1/2" thk	0.08	0.45	2											
Gypsum Wall Board - 5/8" thk	0.1	0.56												
Polyethylene (6 mil) vapor barrier	0.00	0.00												
Studs/Joists (2x4) @ 16"o/c w/ R14 batt insulation	1.62	9.20												
Studs/Joists (2x4) @ 24"o/c w/ R14 batt insulation	1.70	9.65												
Studs/Joists (2x6) @ 16"o/c w/ R19 batt insulation	2.36	13.40												
Studs/Joists (2x6) @ 16"o/c w/ low density foam	2.58	14.65												
Studs/Joists (2x6) @ 16"o/c w/ medium density foam	3.00	17.03												
Studs/Joists (2x8) @ 16"o/c w/ R28 batt insulation	3.29	18.68												
Studs/Joists (2x10) @ 16"o/c w/ R28 batt insulation	4.33	24.59												
Concrete - 6" cast-in-place	0.069	0.39												based on 150lb/FT^2 (R0.065/inch)
Concrete - 8" cast-in-place	0.092	0.52												based on 150lb/FT^2 (R0.065/inch)
Concrete - 10" cast-in-place	0.114	0.65												based on 150lb/FT^2 (R0.065/inch)
Plywood Sheathing - 1/2" thk	0.11	0.62												
Plywood Sheathing - 5/8" thk	0.137	0.78												
Plywood Sheathing - 3/4" thk	0.16	0.93												
OSB Sheathing - 7/16" thk	0.11	0.62												
Building Paper (60#) (2 layers)	0.01	0.06												
Building Wrap (60#) (Tyvek ThurmaWrap LE)	0.35	2.00												
Building Wrap (60#) (Tyvek ThurmaWrap R5.0)	5.28	30.0												
EPDM membrane	0.88	5.00												
Asphalt shingles	0.08	0.44												
Wood shingles	0.17	0.97												
Rain Screen - 3/8" Lathe	0.00	0.00												
Hardi Cladding														
Vynal Cladding (no air space)	0.11	0.62												
Cultured Stone	0.11	0.62												based on 1.75" thickness
Brick - fired clay 4" (102mm)^2	0.07	0.40												

EXTERIOR WALL SCHEDULE

MATERIAL	WALL TY							FLOOR	R	OOF	NOTES		
NAME	RSI	R	AW-1009	AW-1052	AW-1055	SW-3020	SW-3001	AF-2001	AFL-2006		ARO-2251	ARO-2252	
WALLS	1101	1				, J							
Interior Air Film	0.12	0.68											
Exterior Air Film	0.03	0.17											
Paint - 1 coat latex primer & paint	0.00	0.00	2			_			_		1=		
Foam board - Expanded polystyrene - 1" thk	0.88	5.00	† -	_								_	
Foam board - Extruded Polystyrene - 2" thk	1.76	10.00	1										
Foam board - Extruded Polystyrene - 3" thk	2.64	15.00	1					_					
Foam board - Extruded Polystyrene - 4" thk	3.52	20.00											
Gypsum Wall Board - 1/2" thk	0.08	0.45	2										
Gypsum Wall Board - 5/8" thk	0.1	0.56	ऻ	_		_							
Polyethylene (6 mil) vapor barrier	0.00	0.00											
Studs/Joists (2x4) @ 16"o/c w/ R14 batt insulation	1.62	9.20	T	_					_		1 -		
Studs/Joists (2x4) @ 24"o/c w/ R14 batt insulation	1.70	9.65	1			_							
Studs/Joists (2x6) @ 16"o/c w/ R19 batt insulation	2.36	13.40											
Studs/Joists (2x6) @ 16"o/c w/ low density foam	2.58	14.65	l —	_									
Studs/Joists (2x6) @ 16"o/c w/ medium density foam	3.00	17.03	i –										
Studs/Joists (2x8) @ 16"o/c w/ R28 batt insulation	3.29	18.68	i e										
Studs/Joists (2x10) @ 16"o/c w/ R28 batt insulation	4.33	24.59	i i										
Concrete - 6" cast-in-place	0.069	0.39	i i									_	based on 150lb/FT^2 (R0.065/inch)
Concrete - 8" cast-in-place	0.092	0.52	i i										based on 150lb/FT^2 (R0.065/inch)
Concrete - 10" cast-in-place	0.114	0.65	1										based on 150lb/FT^2 (R0.065/inch)
Plywood Sheathing - 1/2" thk	0.11	0.62	1			_							((((((((((((((((((((
Plywood Sheathing - 5/8" thk	0.137	0.78	i i										
Plywood Sheathing - 3/4" thk	0.16	0.93											
OSB Sheathing - 7/16" thk	0.11	0.62	1										
Building Paper (60#) (2 layers)	0.01	0.06											
Building Wrap (60#) (Tyvek ThurmaWrap LE)	0.35	2.00											
Building Wrap (60#) (Tyvek ThurmaWrap R5.0)	5.28	30.0	_	_									
EPDM membrane	0.88	5.00	İ								İ		
Asphalt shingles	0.08	0.44											
Wood shingles	0.17	0.97	İ										
Rain Screen - 3/8" Lathe	0.00	0.00											
Hardi Cladding													
Vynal Cladding (no air space)	0.11	0.62											
Cultured Stone	0.11	0.62	İ										based on 1.75" thickness
Brick - fired clay 4" (102mm)^2	0.07	0.40											
,			İ										
TOTAL RSI			2.91	3.16	3.16	1.96	2.0	2.0	4.97		4.77	10.04	
TOTAL R			16.53	17.94	17.94	11.15	11.37	11.37	28.22			57.06	



DESIGN GROUP INC 604.824.2774 www.guliker.ca info@guliker.ca CLIENT ADDRESS: Ambstep Homes 9240 Young Road, Chilliwack, BC Lot 3 Collins Drive Chilliwack BC

> COPYRIGHT RESERVED: property of Guliker Design Group Inc. and only to be used for the address shown above. Unauthorized reproduction of these plans is strictly prohibited.

energy efficiency

requirements

APRIL 29, 2015 a5.

DATE PRINTED: 30/04/2015 1:12:19 PM

REQUIREMENTS 1. Ducts located outside the thermal enclosure are to be sealed and insulated to the exterior wall insulation requirements.

RSI 1.99 (R 11.31)

RSI 1.96 (R 11.14)

RSI 2.32 (R 13.18)

RSI 2.32 (R 13.18)

RSI 1.96 (R 11.1)

RSI 2.78 (R 15.78)

RSI 4.67 (R 26.52)

RSI 2.32 (R 13.17)

RSI 2.78 (R 15.8)

RSI 4.67 (R 26.5)

RSI 6.91 (R 39.2)

1.80U RSI 1.1 (R 6.25)

RSI 2.6 (U 0.46) USI 2.6 (U 0.46)

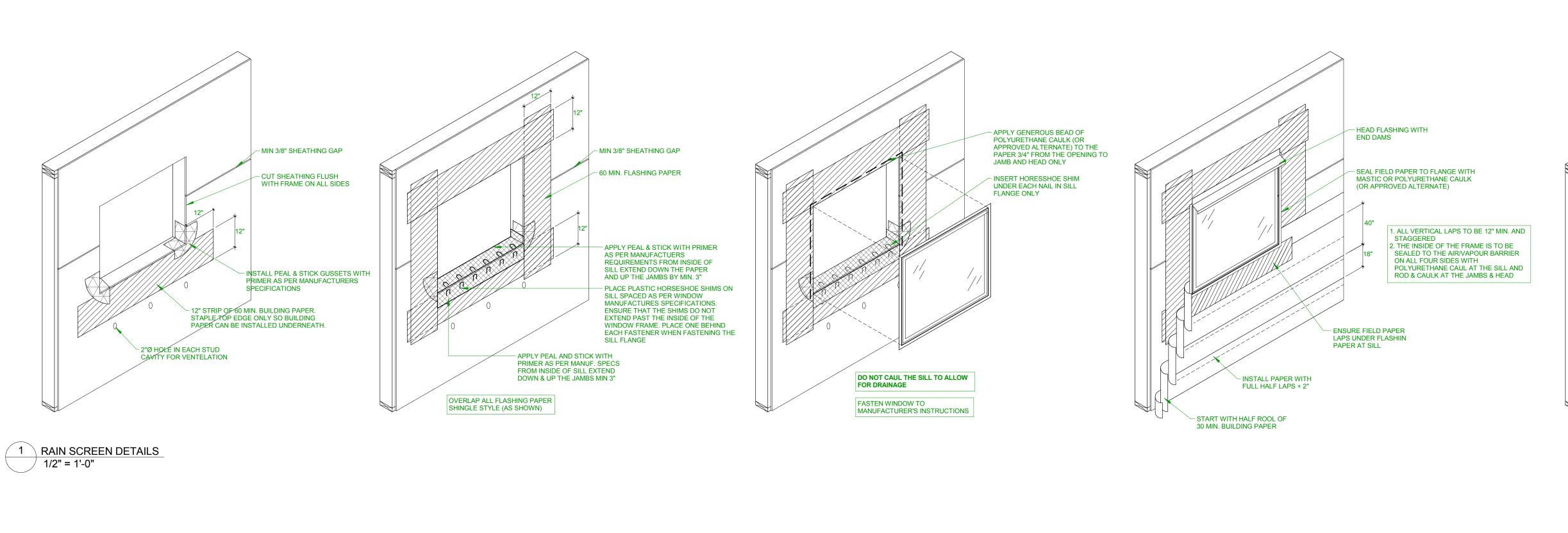
USI 2.9 (U 0.51)

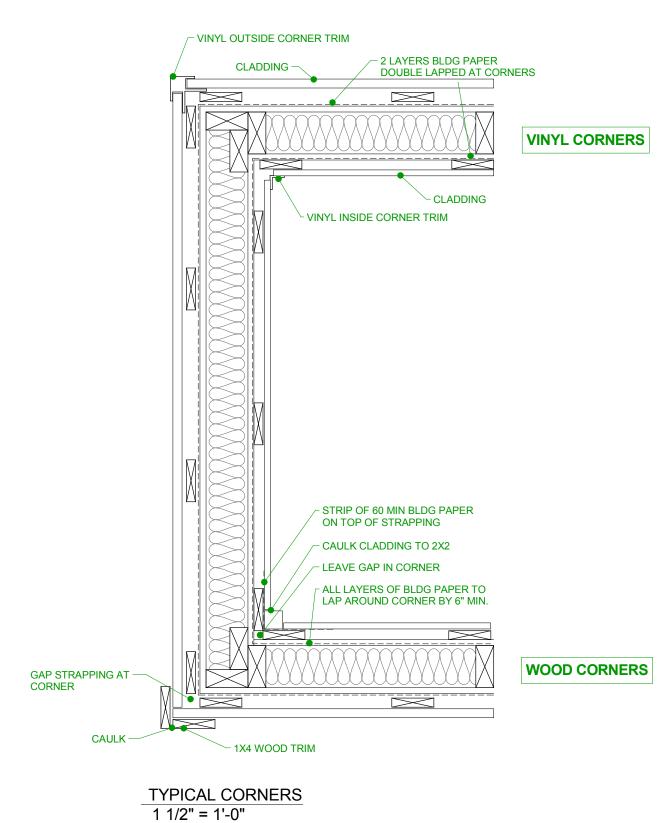
RSI 1.96 (R 11.14)

2. Install dampers at air inlets and exhausts where required. 3. Piping for heating or cooling systems is located within the thermal enclosure or are fully insulated. 4. HVAC equipment is located within thermal enclosure or designated to be installed outside of thermal enclosure.

5. Temperature controls are installed on heating and cooling equipment. 6. Indoor pools are covered or have an HRV/dehumidifier. 7. HVAC and SWH equipment meet minimum performance requirements determined in Tables 9.36.3.10 and 9.36.4.2 of the B.C.B.C 2012 8. Service water heating and pipes are insulated at the inlet and outlet of

storage tanks. 9. Service water heaters have temperature controls. 10. Door manufacturers to ensure all exterior doors meet a minimum U value of 11. Skylight manufacturers to ensure all skylights meet a minimum U value of





SEAL BUILDING PAPER TO HEAD
FLASHING AND TO FLANGE OF WINDOW AT JAMB WITH POLYURETHANE CAULK

END FLASHING WITH END DAM

(OR EQUIVELANT)

- 3/8" GAP BETWEEN STRAPPING AND WINDOW

- CLADDING

SILL FLASHING WITH END

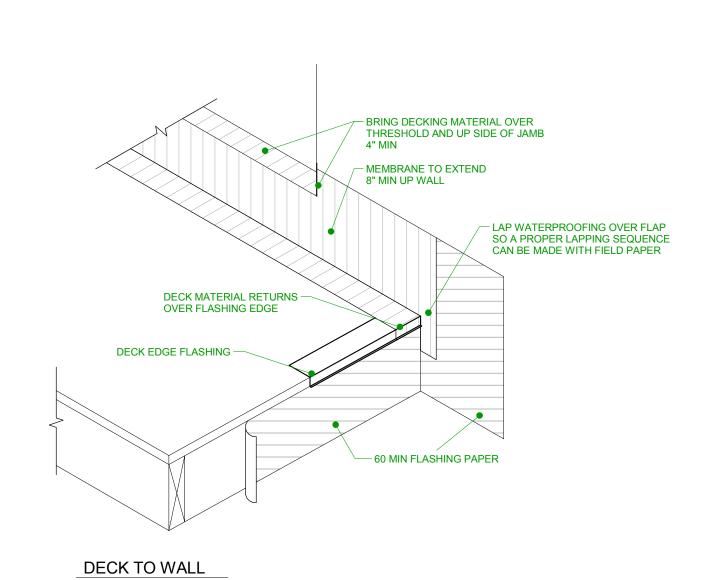
DAM BEHIND STRAPPING

SILL PEAL & STICK

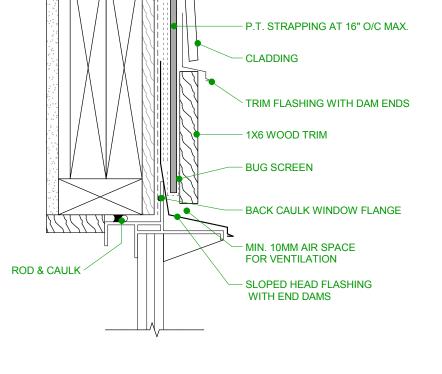
BUG SCREEN

10mm. MIN. THICK PRESSURE TREATED PLYWOOD STRAPPING AS PER 9.27.2.2 @ 16" o/c MAX. ATTACHED TO STUDS WITH APPROVED FASTENERS

─ SILL FLASHING PAPER

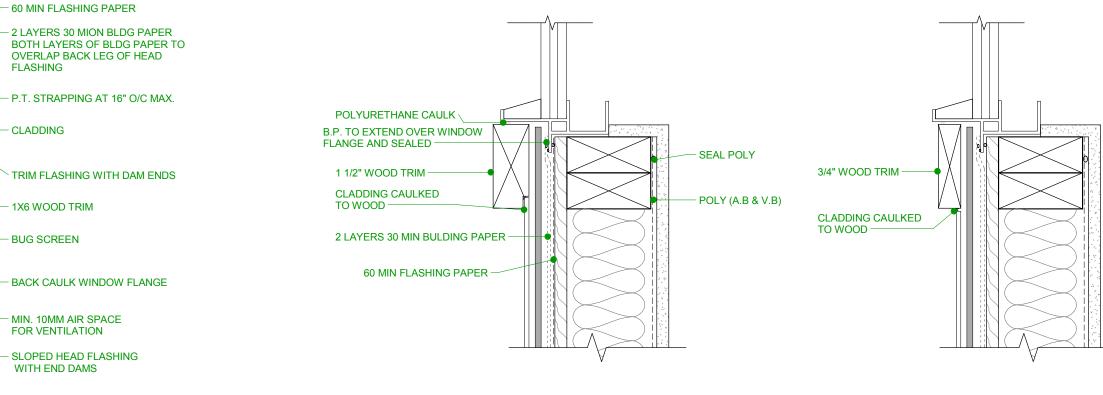


1 1/2" = 1'-0"



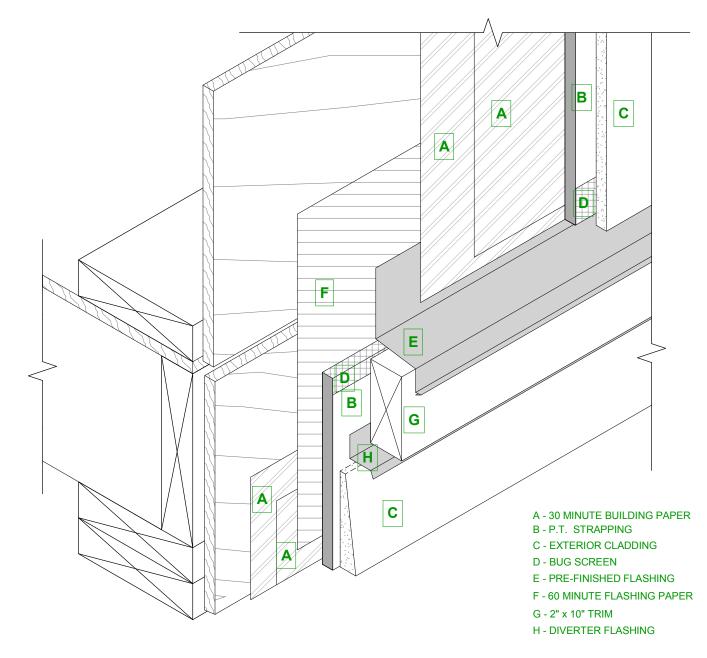
WINDOW HEAD

3" = 1'-0"



WINDOW JAMB SECDTION 3" = 1'-0"

✓ DO NOT CUT HERE 25MM RECOMMENDED - FOLDED SAFETY EDGE - END DAM MUST EXTEND TO FACE OF CLADDING — DO NOT CRIMP BACK FOLD TIGHT SO POSITIVE SLOPE IS MAINTAINED FOLD OVER OUTER
CORNER TO CREATE
A SAFETY EDGE FOLD UP EDGE -



THROUGH WALL FLASHING AND BAND BOARD 3" = 1'-0"

HEAD FLASHING WITH END DAM 1" = 1'-0"

COLOUR PRINTING: Drawings have been prepared in colour for clarity and must be printed in colour. Consultants and Contractors are responsible for any misinterpretations caused as a result of printing in black and white.

ome tep C E P

DESIGN GROUP INC 604.824.2774

www.guliker.ca info@guliker.ca CLIENT ADDRESS: Ambstep Homes 9240 Young Road, Chilliwack, BC

Lot 3 Collins Drive Chilliwack BC

building envelope details

COPYRIGHT RESERVED:
These plans, designs, and concepts are the exclusive property of Guliker Design Group Inc. and only to be used for the address shown above. Unauthorized reproduction of these plans is strictly prohibited.

APRIL 29, 2015

a6.

30/04/2015 1:12:20 PM

