

SECTION REFERENCES

GARY BURTCH

- Framing walls and roof as per page 064 and 065
- metal roof, block chimney incl. metal cladding and strapping above glass roof, page 066
- concrete floor incl. dummy track (Nanawall windows) page 050
- order and pickup of log-floor-beams at muskoka timber mills (4 weeks lead-time) or delivery by Muskoka mills quoted at 320\$
- order/install angle irons living room windows (2pce), coated rust free, page 052
- order/install angle irons terrace wall opening (2pce), coated rust free, page 045

- before any order, get final approval

PHILIPPSTÄHELI

- interior and exterior siding
- windows and doors
- kitchen
- stairs

STEVE COUMBS

- shading power to be installed when greenhouse skeleton is up, but before glass is put on. make use of scissor lifts used by builders.
- many switches/outlets are drawn in the sections to show arrangement
- switch and outlet heights are so to be middle of sidingboard/stone

TIM KEGEL

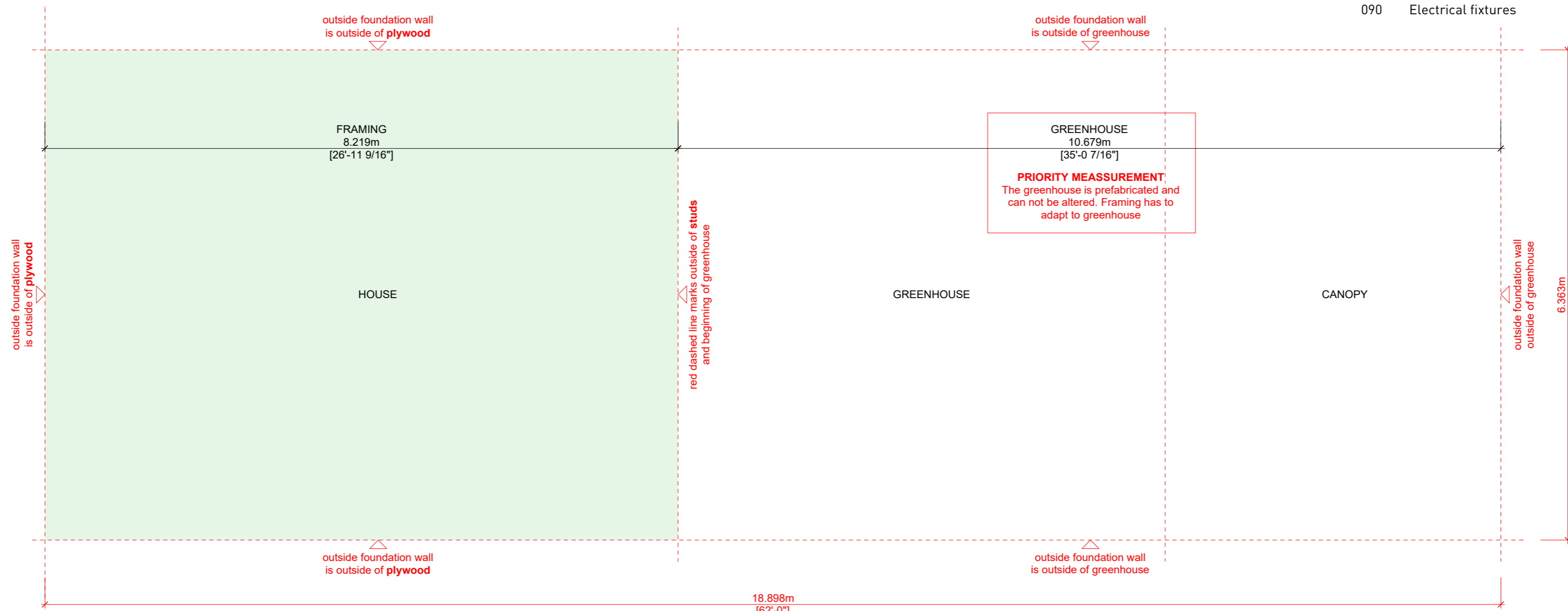
- no installations in ceiling
- second kneewall heating connected through west gable wall

CHUCK HEWSON

- shower needs to be installed so Gary Burtch can finish framing plywood

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065	Roof assembly
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067	Detail greenhouse attachment plan
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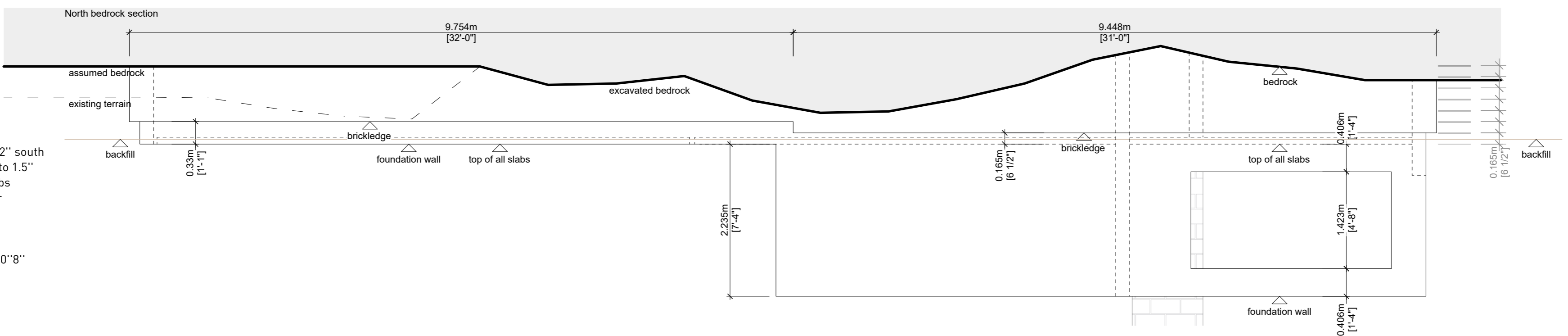
PLAN REFERENCES

CHANGELOG

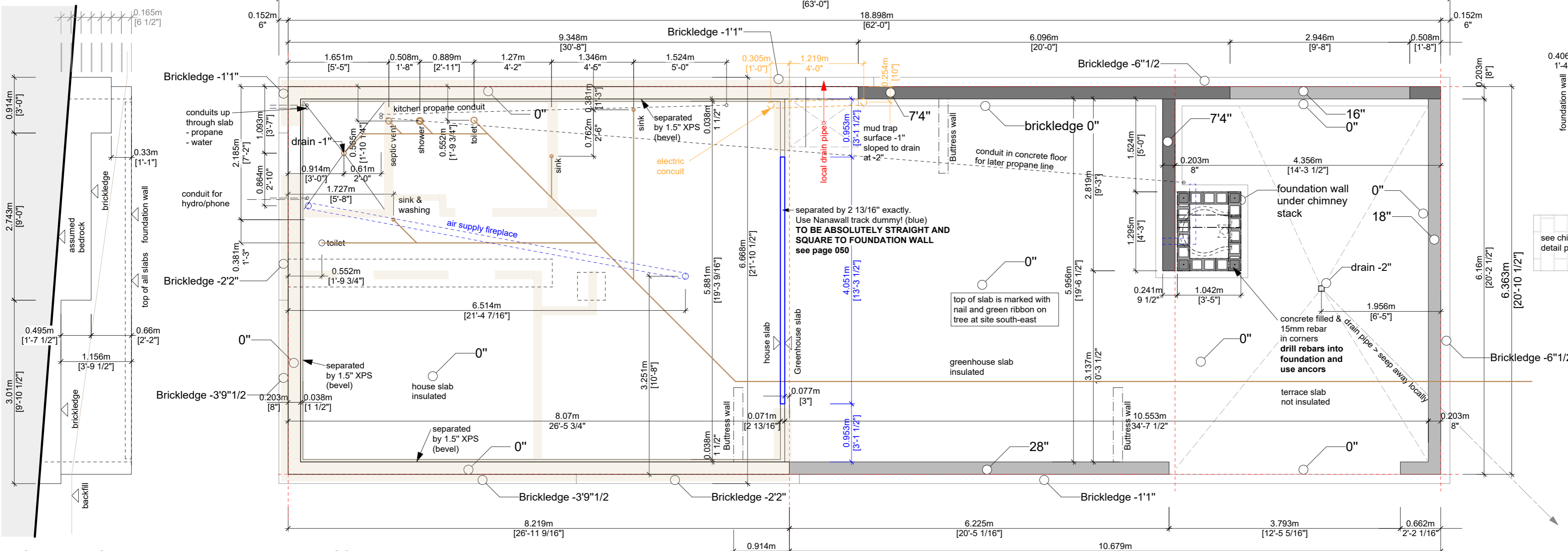
- 2020 Aug 23
- updated table of content
- remarks

ANY CODE VIOLATIONS FOUND IN PLANS MUST BE REPORTED IMMEDIATELY



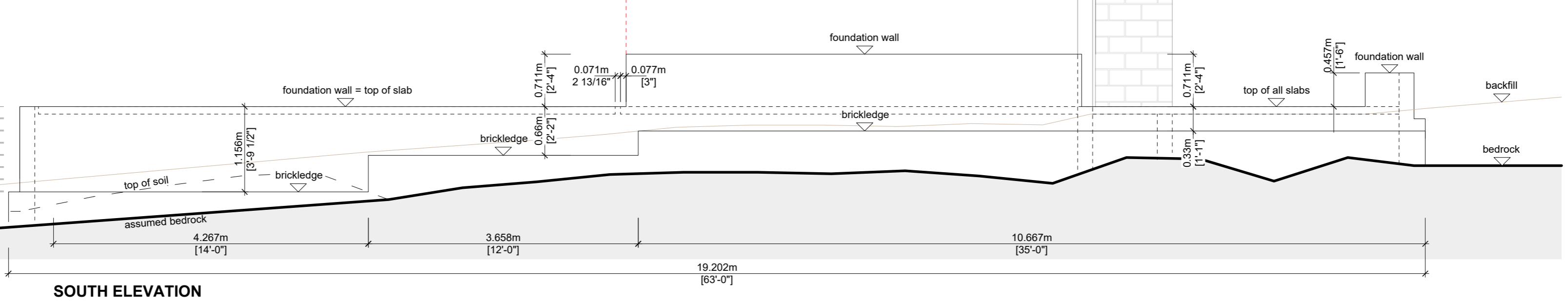


- CHANGELOG**
- 2020 APRIL 01
 - terrace drain at -2"
 - fresh air fireplace house moved 2" south
 - heated slab separation reduced to 1.5"
 - track dummy detail between slabs
 - all blocks filled with concrete for greenhouse attachment
 - 2020 April 10
 - air supply fireplace changed to 10"8"



FLOOR PLAN

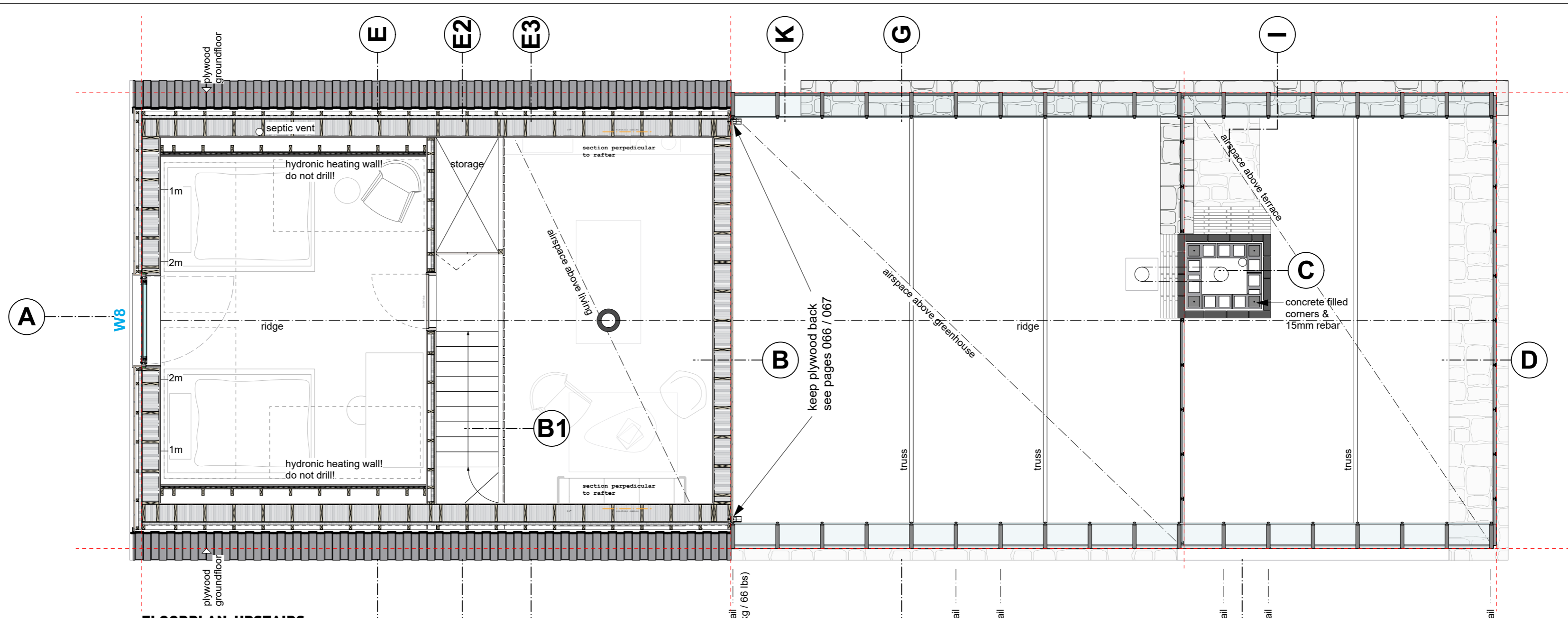
- IMPORTANT NOTES:**
- top of foundation required to be square & level (for prefab elements)
 - DO NOT use leveling strips or anchor bolts in top of wall
 - Foundation thickness 8"
 - Brick ledge 6"
 - house slab separated by 4" insulation (bevel)
 - terrace/greenhouse slab connected to foundation wall
 - for further details consult details A - J
 - slab finish quality so to be polished for finished floor
 - additional local foundation under cinder-block chimney



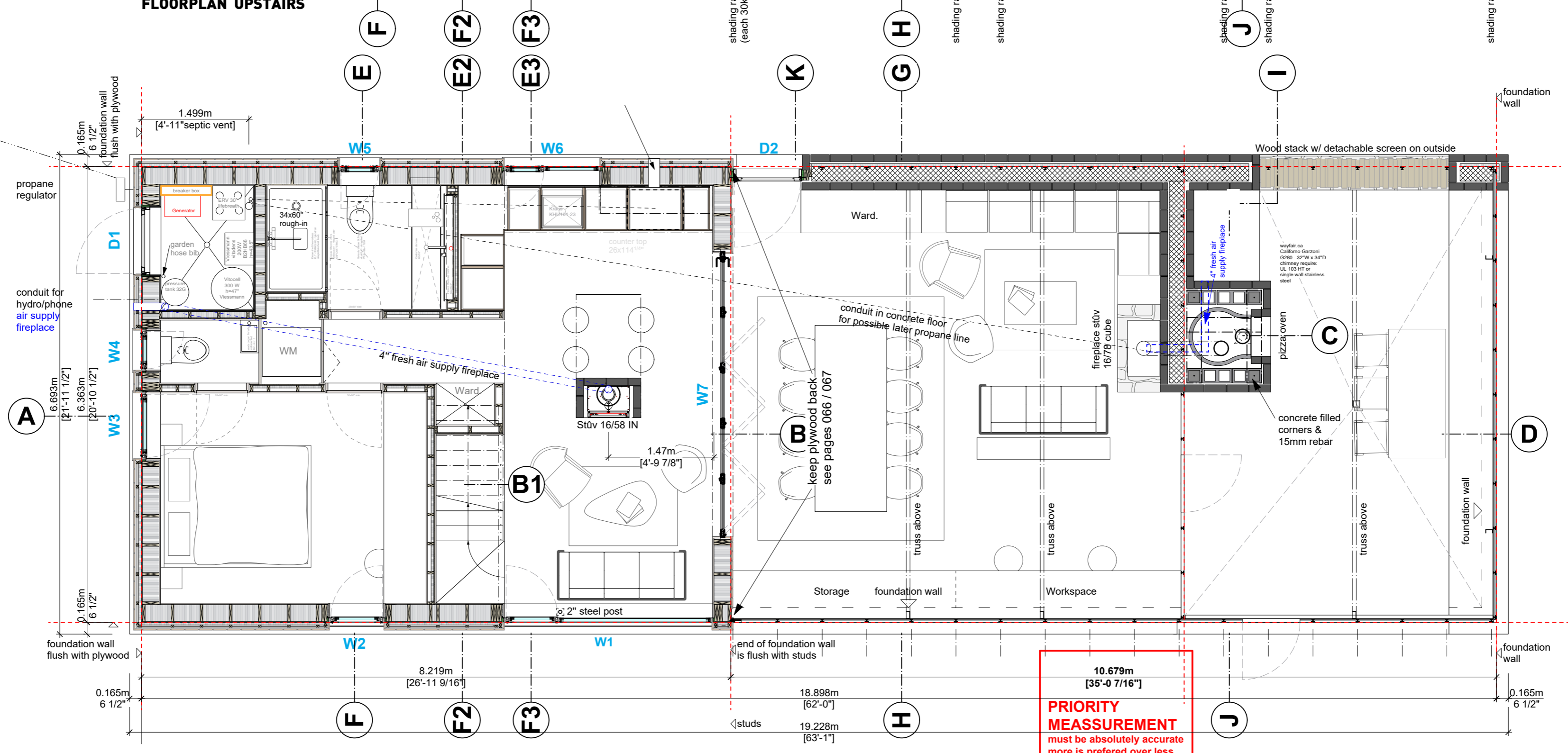
SOUTH ELEVATION

WEST ELEVATION

EAST ELEVATION



FLOORPLAN UPSTAIRS





















FLOORPLAN GROUNDLEVEL

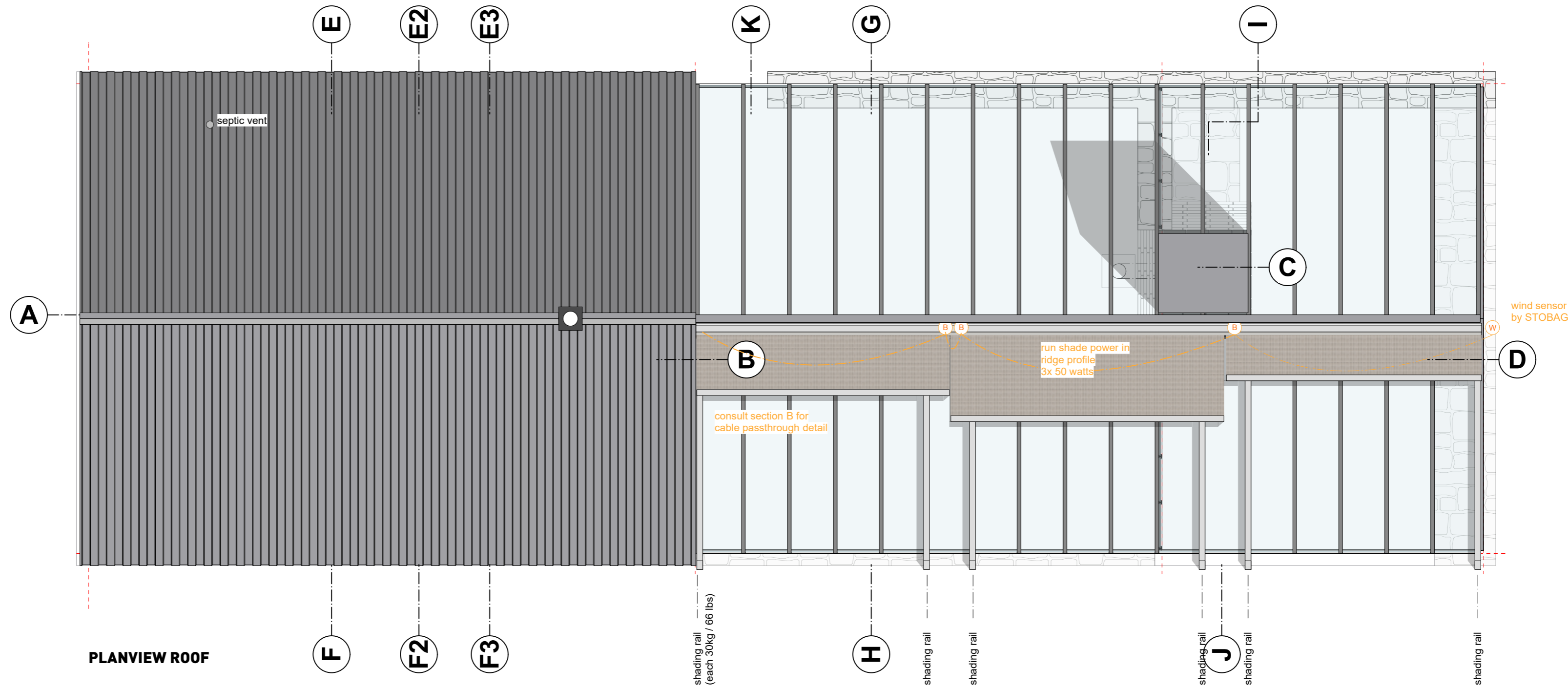
IMPORTANT
 polished concrete floor is prone to staining.
 Do not tape vapour barrier more than 1/2" on slab. Otherwise not covered by interior siding.
 Do not store any materials or tools on floor.

- CHANGELOG**
- 2020 APRIL 01
 - Size of W7
 - Angle irons at head of W1/W7
 - all windows sizes
 - jamb/head detail door D2
 - 2020 April 10
 - fireplace model changed

10.679m
[35'-0 7/16"]
PRIORITY MEASSUREMENT
 must be absolutely accurate
 more is preferred over less

- ELECTRICAL LEGEND**
-  Exterior wall light
 -  CO detector
 -  smoke detector
 -  fan
 -  floor receptacle duplex
 -  ceiling light
 -  wall light
 -  outlet
 -  double outlet
 -  outlet 220V
 -  outlet GFI
 -  switch
 -  switch 3 way
 -  USB double outlet USB combo
 -  table pop-up outlet USB
 -  switch dimmable
 -  switch outlet combo
 -  power to blinds, 50W/each

DO NOT INSTALL WIRING IN OR ON THE CEILING OF GROUND FLOOR



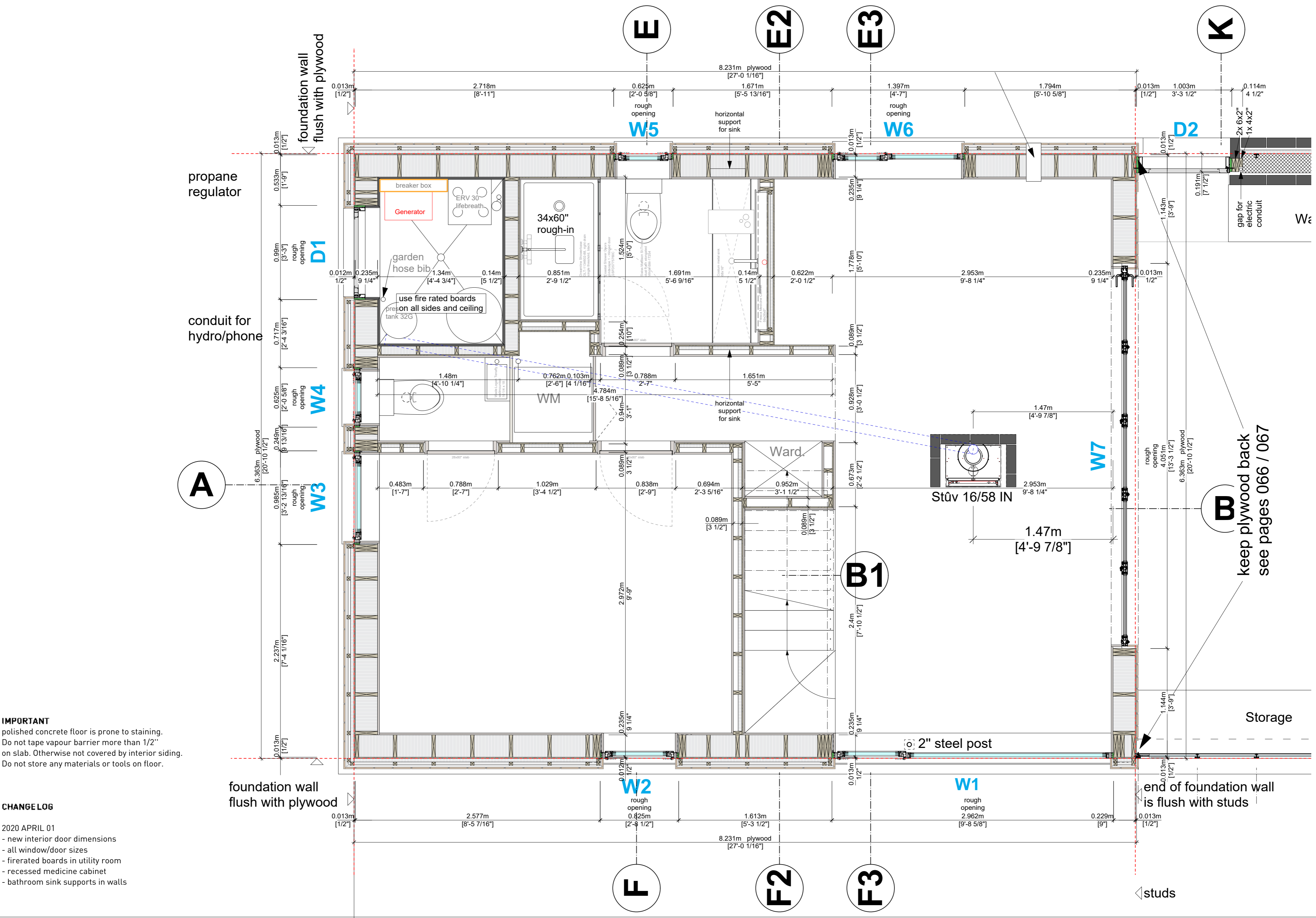
IMPORTANT
 polished concrete floor is prone to staining.
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CHANGE LOG
 2020 APRIL 01
 - wind sensor east elevation ridge
 - wiring blinds moved

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CHANGELOG
 2020 APRIL 01
 - new interior door dimensions
 - all window/door sizes
 - firerated boards in utility room
 - recessed medicine cabinet
 - bathroom sink supports in walls

Paper size is A2 (594x420mm)



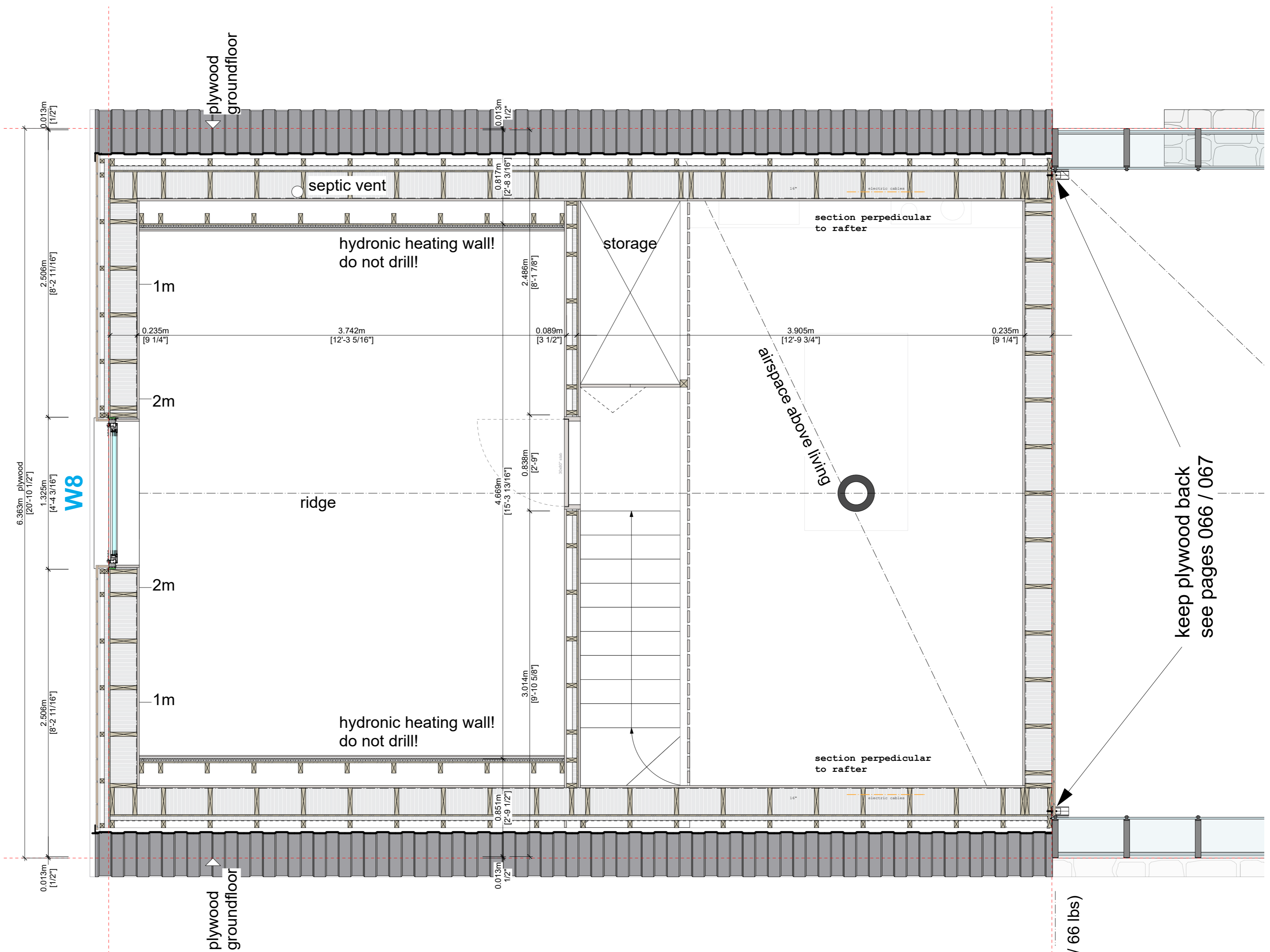
ALL MEASSUREMENTS ARE ON FRAMING STUDS

007

GROUND FLOOR FRAMING SCALE 1:25 - 2020/April/01

PHILIPP STÄHELI ARCHITEKT
 KATHARINA-SULZER-PLATZ 2
 CH-8400 WINTERTHUR
 SWITZERLAND

BUILDING SITE
 1203 BING TR, Algonquin Highlands
 HINDON LAKE, HALIBURTON
 ONTARIO, CANADA, K0M 1J2



IMPORTANT
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 Do not store any materials or tools on floor.

CHANGE LOG
 2020 APRIL 01
 - new interior door dimensions
 - all window/door sizes
 - landing area
 - kneewall moved slightly

ALL MEASSUREMENTS ARE ON FRAMING STUDS



















008

GROUND FLOOR FRAMING SCALE 1:25 - 2020/April/01

PHILIPP STÄHELI ARCHITEKT
 KATHARINA-SULZER-PLATZ 2
 CH-8400 WINTERTHUR
 SWITZERLAND

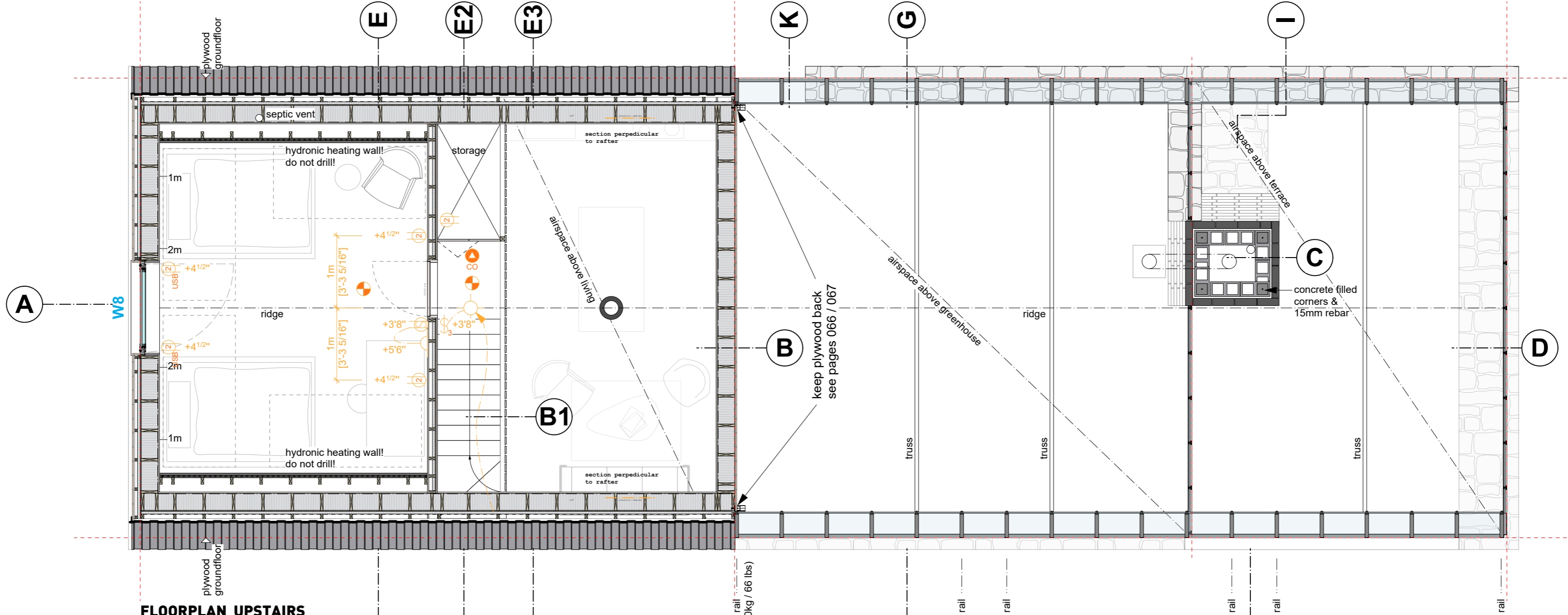
BUILDING SITE
 1203 BING TR, Algonquin Highlands
 HINDON LAKE, HALIBURTON
 ONTARIO, CANADA, K0M 1J2

ELECTRICAL LEGEND

-  Exterior wall light
-  CO detector
-  smoke detector
-  fan
-  floor receptacle duplex
-  ceiling light
-  wall light
-  outlet
-  double outlet
-  outlet 220V
-  outlet GFI
-  switch
-  switch 3 way
-  double outlet USB combo
-  table pop-up outlet USB
-  switch dimmable
-  switch outlet combo
-  power to blinds, 50W/each

DO NOT INSTALL WIRING IN OR ON THE CEILING OF GROUND FLOOR

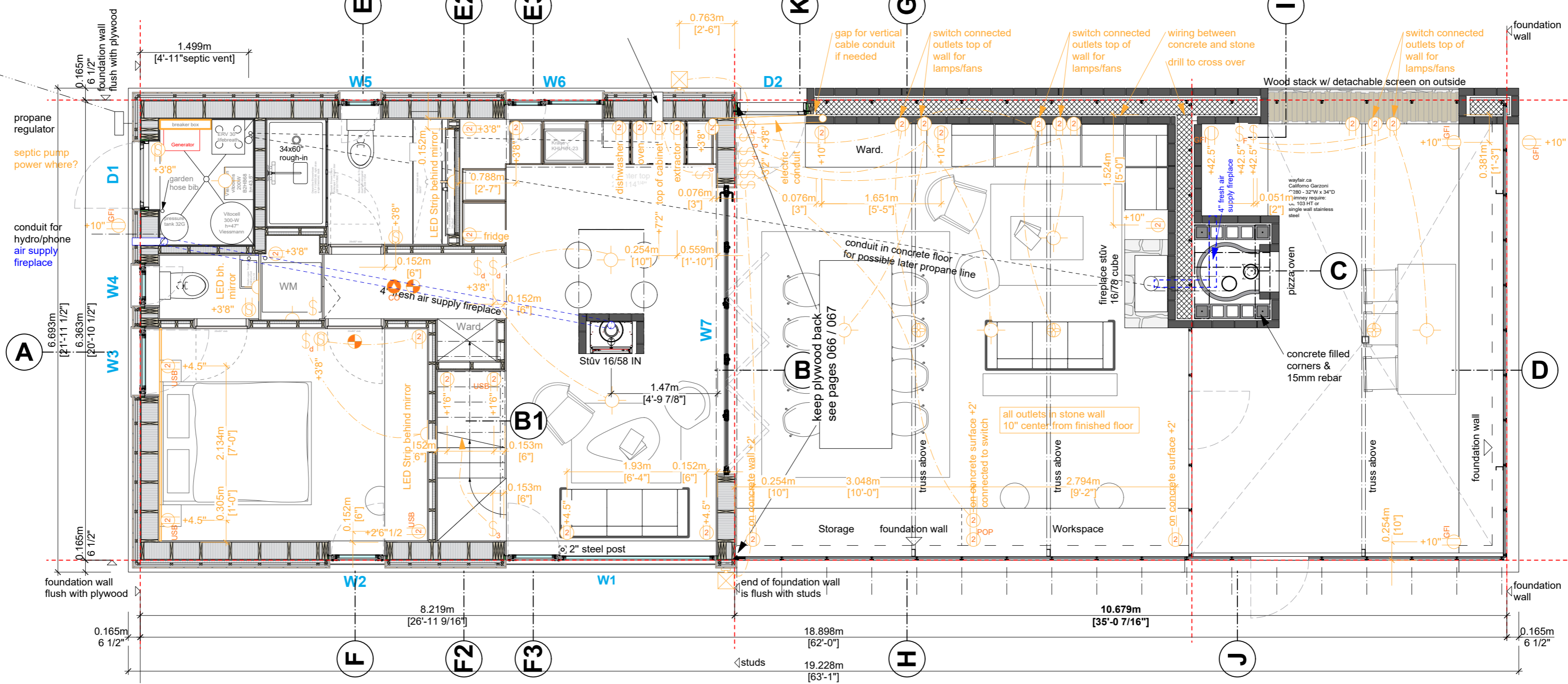
CONSULT SECTIONS TO SEE ARRANGEMENT OF SWITCHES AND ADDITIONAL INFORMATION



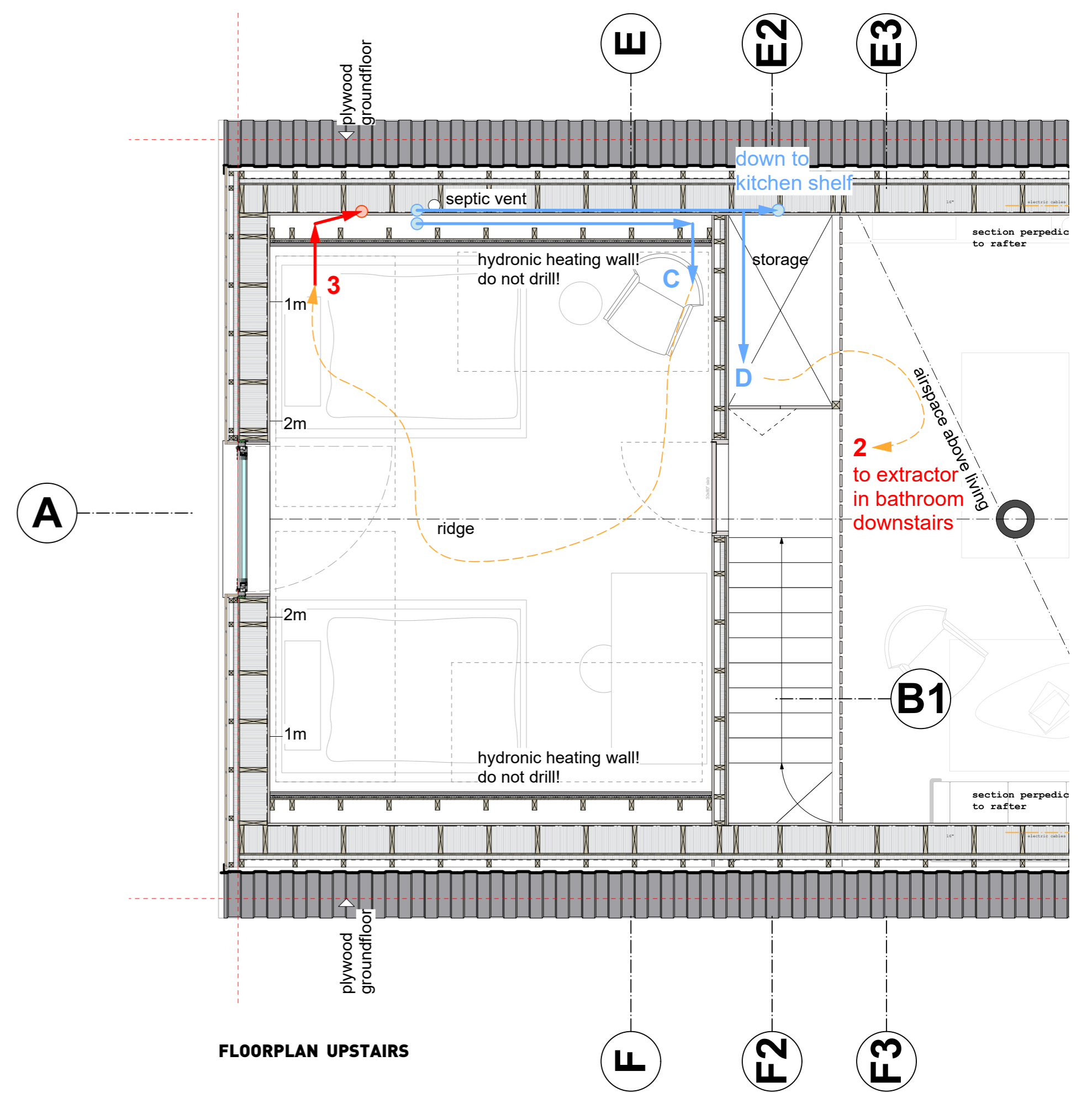
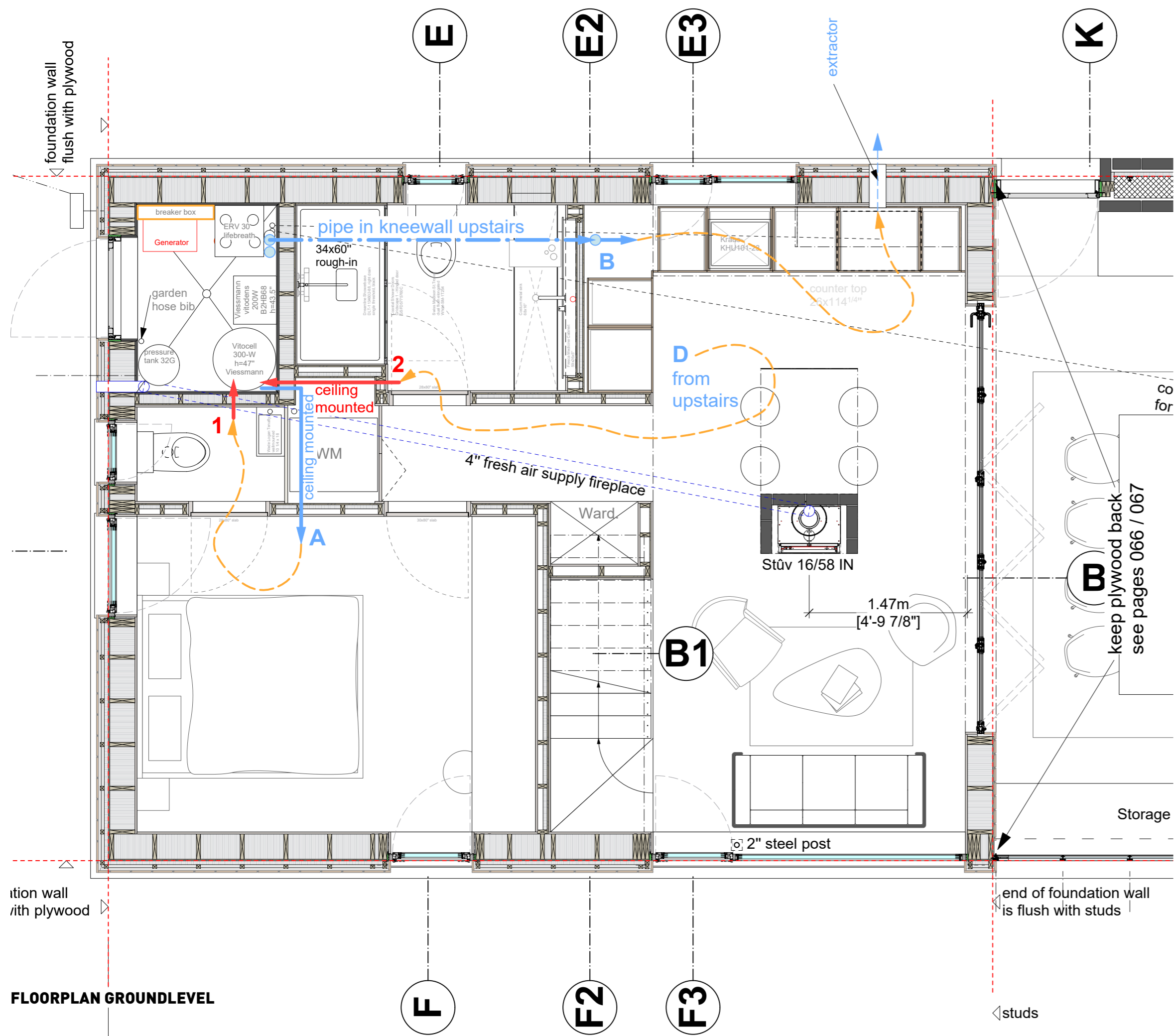
FLOORPLAN UPSTAIRS

IMPORTANT
 polished concrete floor is prone to staining.
 Do not tape vapour barrier more than 1/2" on slab. Otherwise not covered by interior siding.
 Do not store any materials or tools on floor.

CHANGE LOG
 2020 APRIL 01
 - no more switches for blinds
 - moved switches/outlets
 - new heights for switches/outlets (see sections)



FLOORPLAN GROUNDLEVEL



CHANGE LOG

2020 APRIL 01

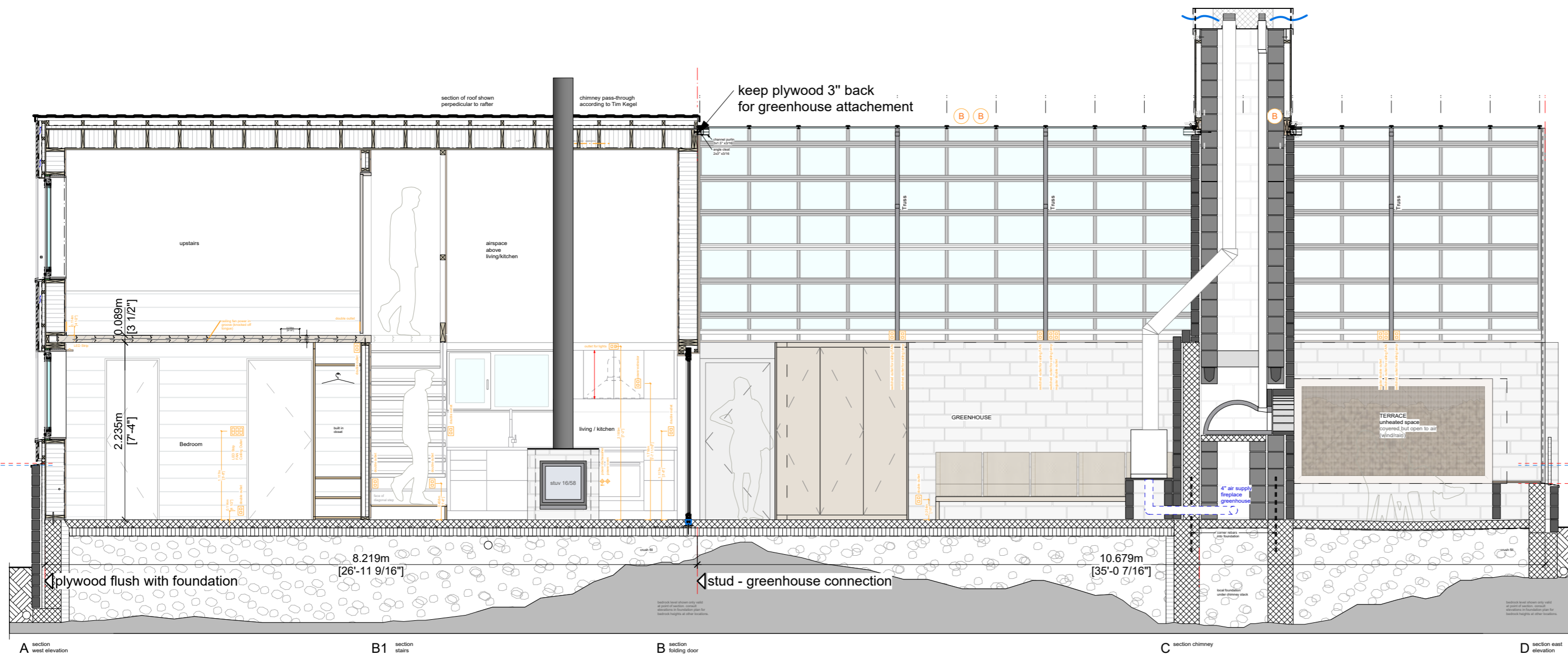
- no more switches for blinds
- moved switches/outlets
- new heights for switches/outlets (see sections)

IMPORTANT

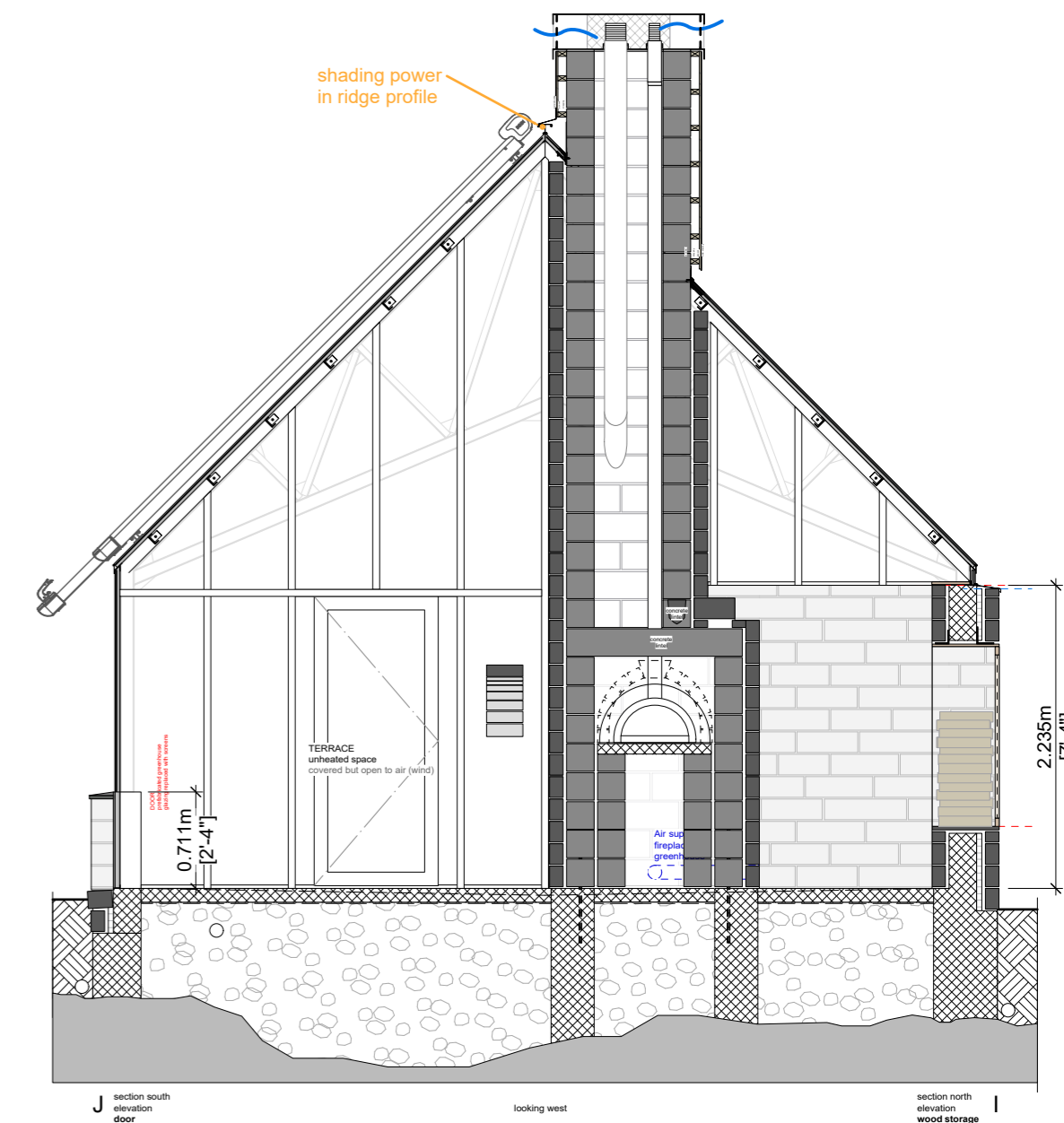
polished concrete floor is prone to staining.

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Do not store any materials or tools on floor.



LONGITUDINAL SECTION

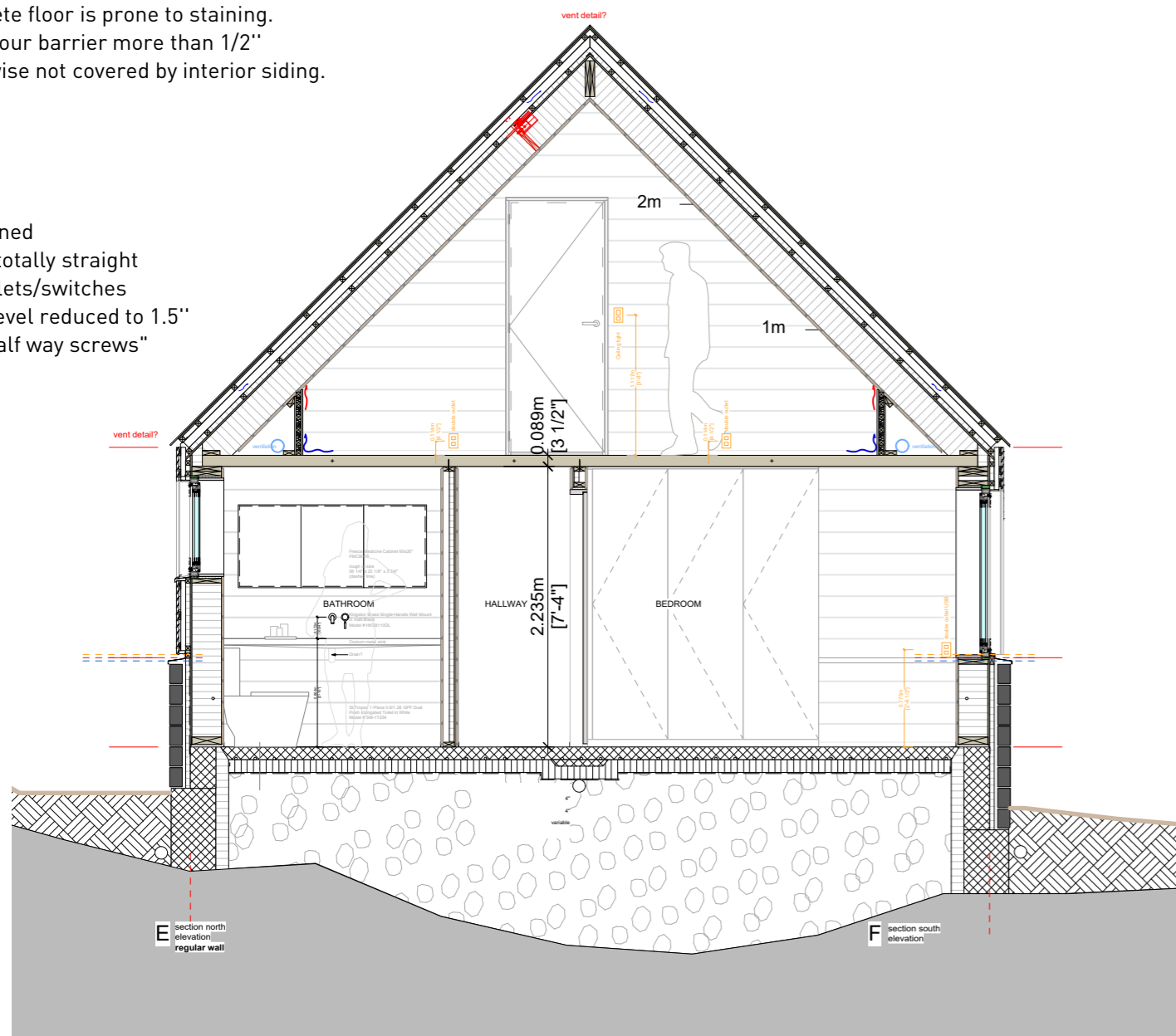


CROSS SECTION J-I

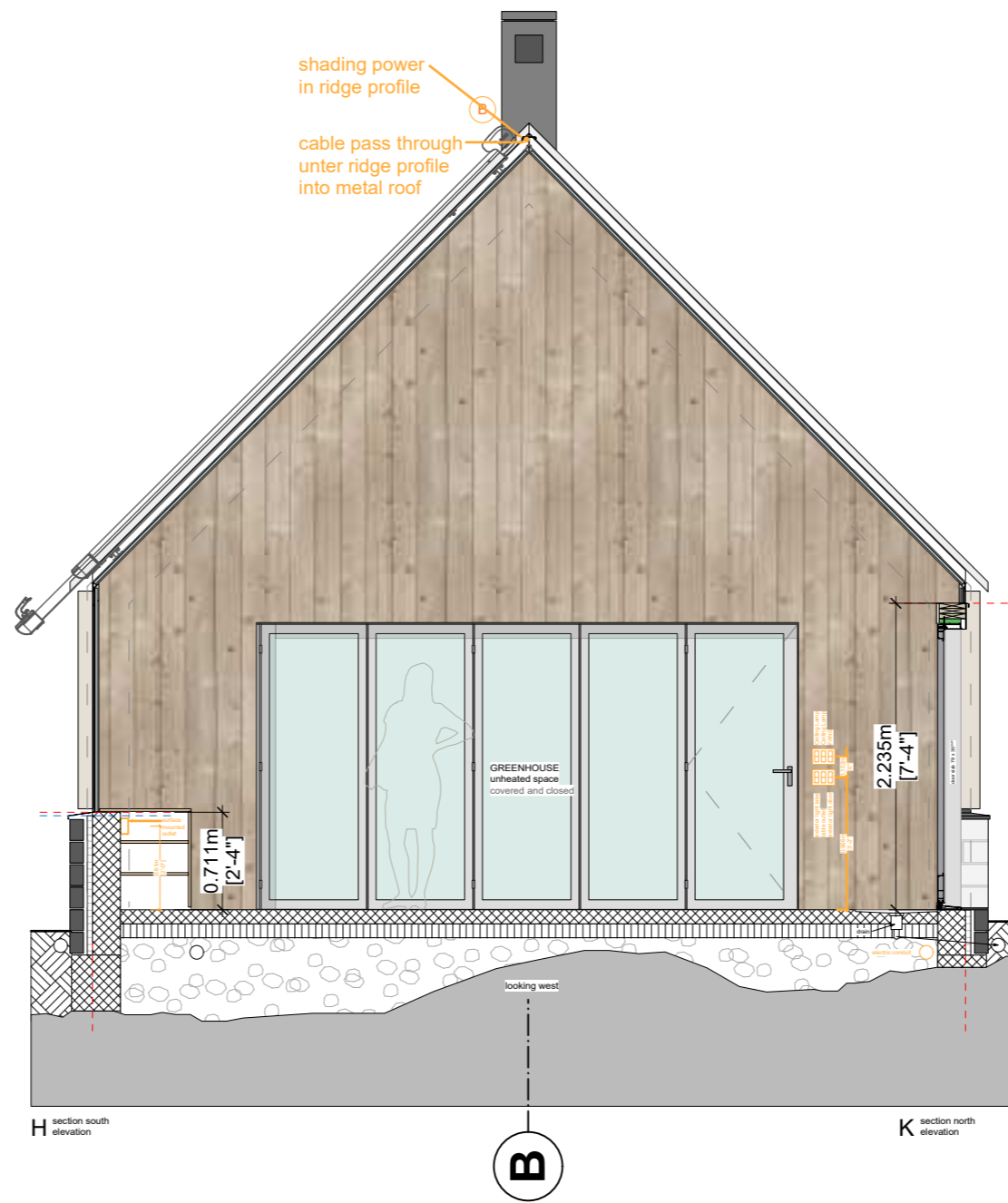
IMPORTANT
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 on slab. Otherwise not covered by interior siding.

CHANGELOG

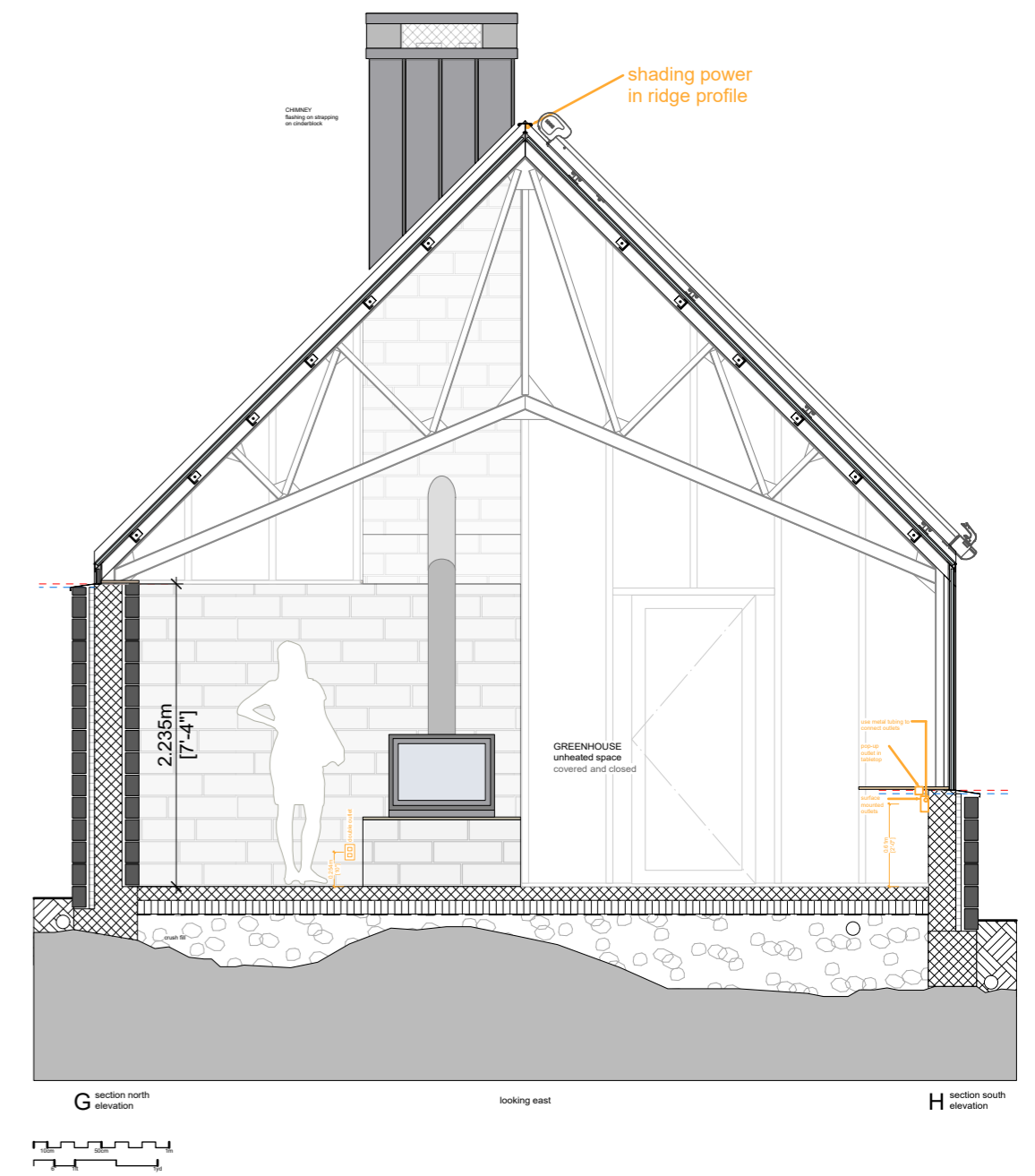
- 2020 APRIL 01
- stairs redesigned
 - upstairs wall totally straight
 - heights of outlets/switches
 - heated slab bevel reduced to 1.5"
 - introduced "half way screws"



CROSS SECTION E-F



CROSS SECTION H-K

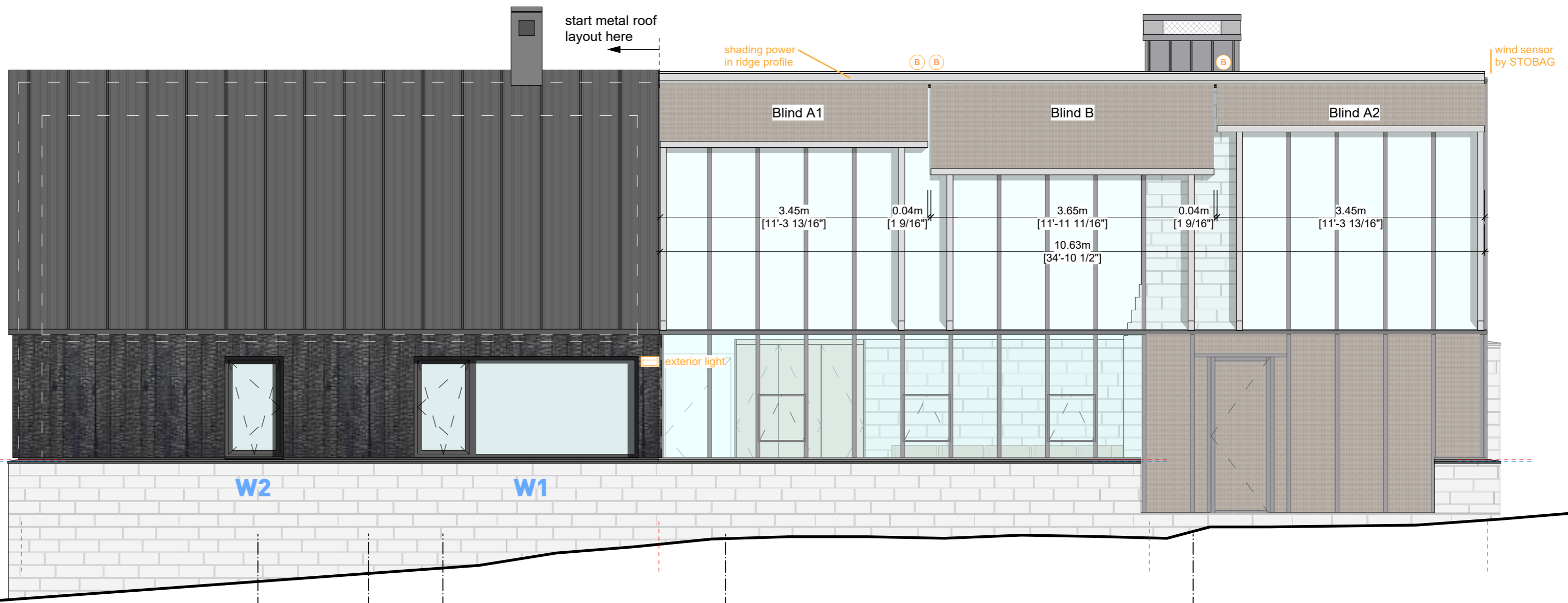


CROSS SECTION G-H



WEST elevation

A



SOUTH elevation

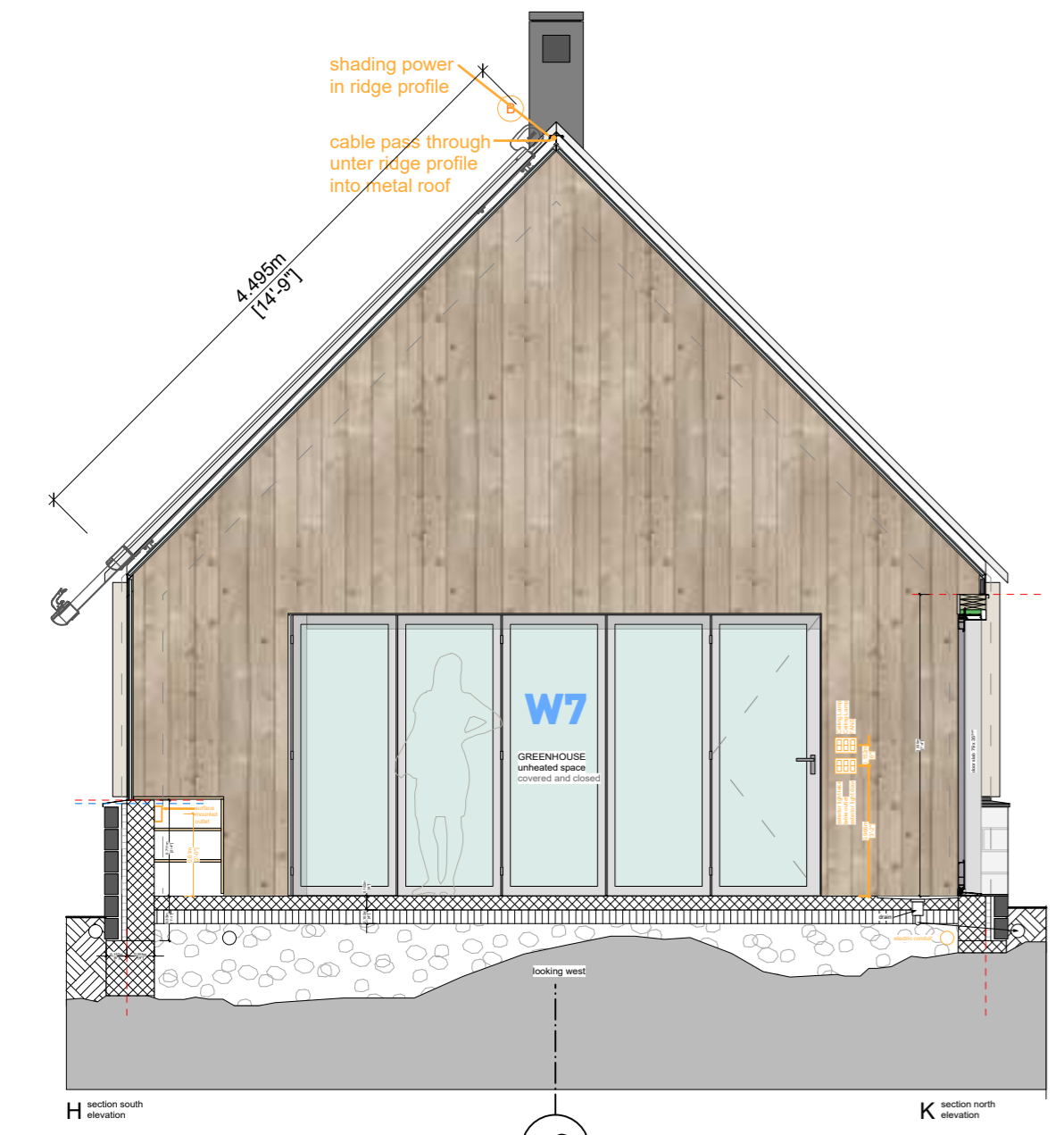
F

F2

F3

H

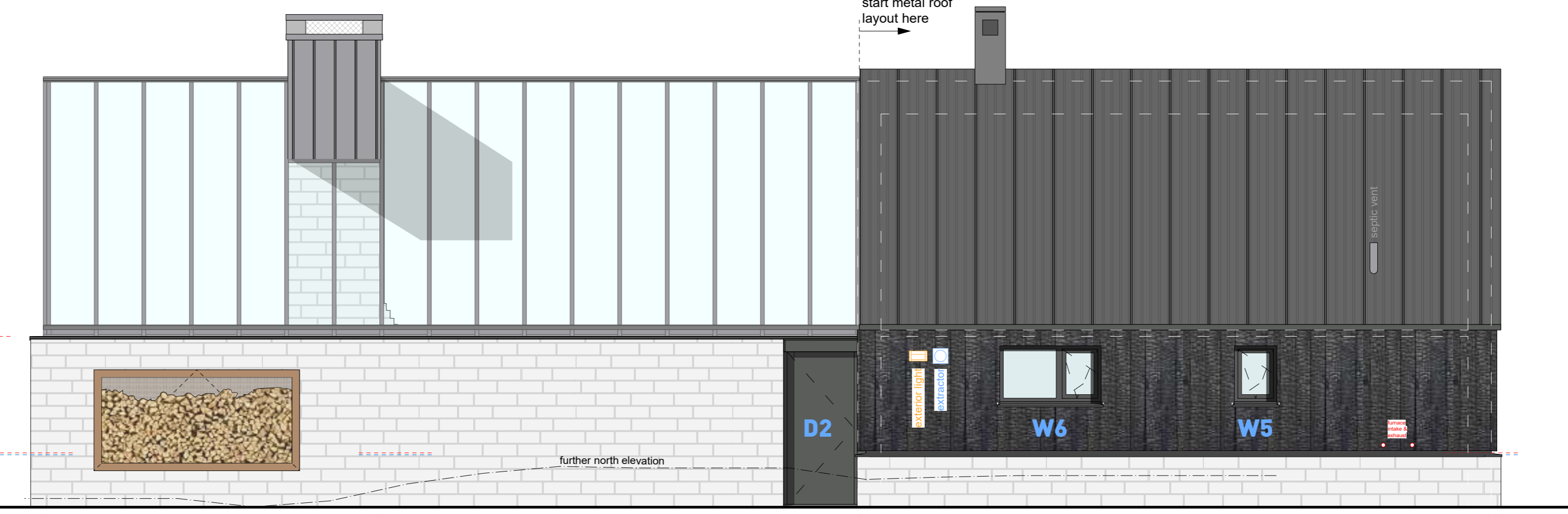
J



EAST elevation (insulated house)

The full eastern elevation is enclosed in the unheated greenhouse.

B



NORTH elevation

I

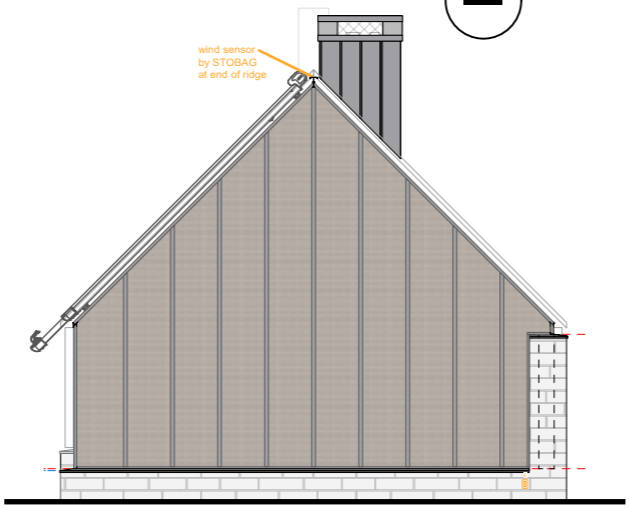
G

K

E3

E2

E

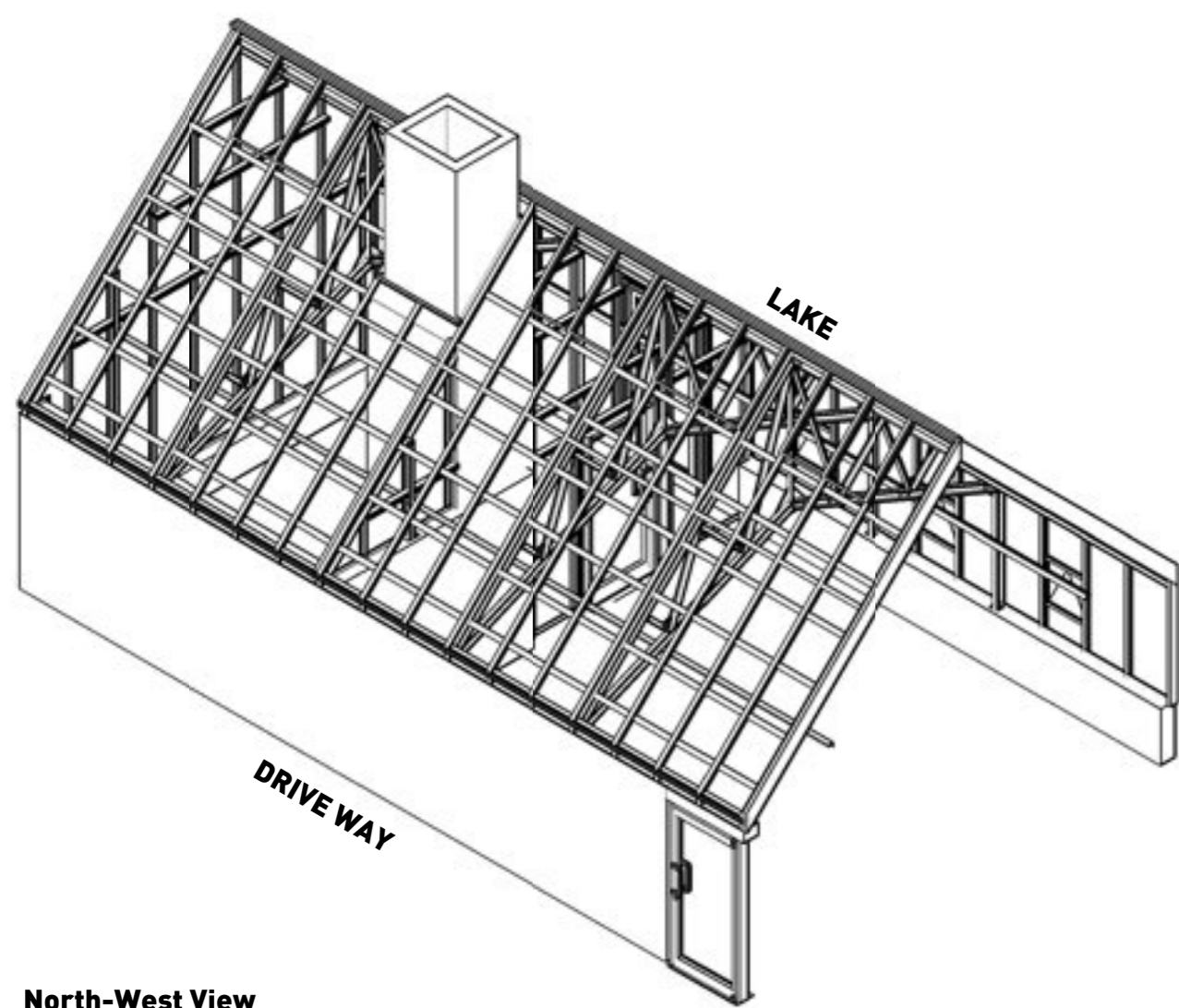


EAST elevation (greenhouse)

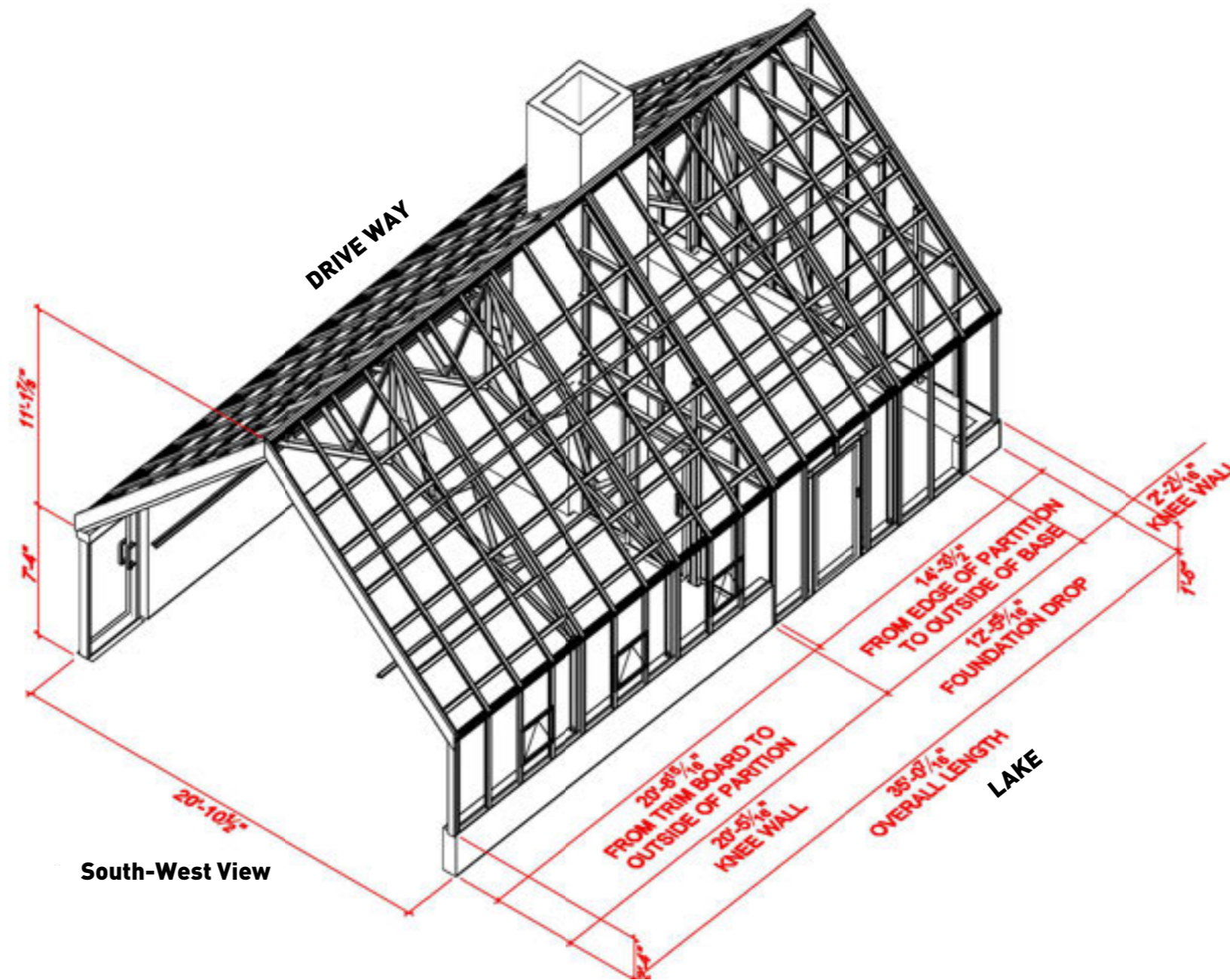
1:100

CHANGE LOG

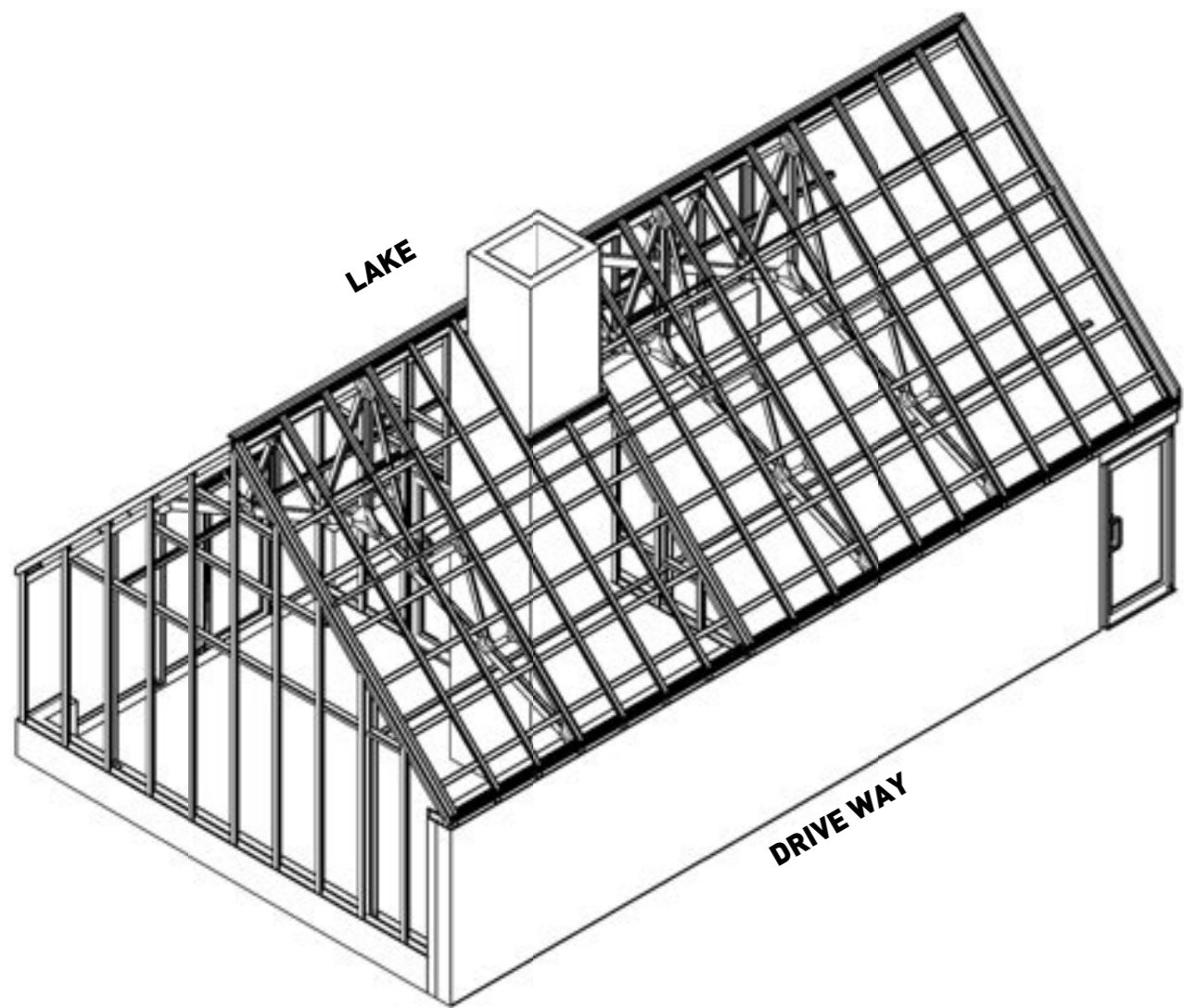
- 2020 APRIL 01
- wind sensor on east ridge
- window/door sizes
- blinds power moved
- exterior lights moved
- roofing profile drawn to spec



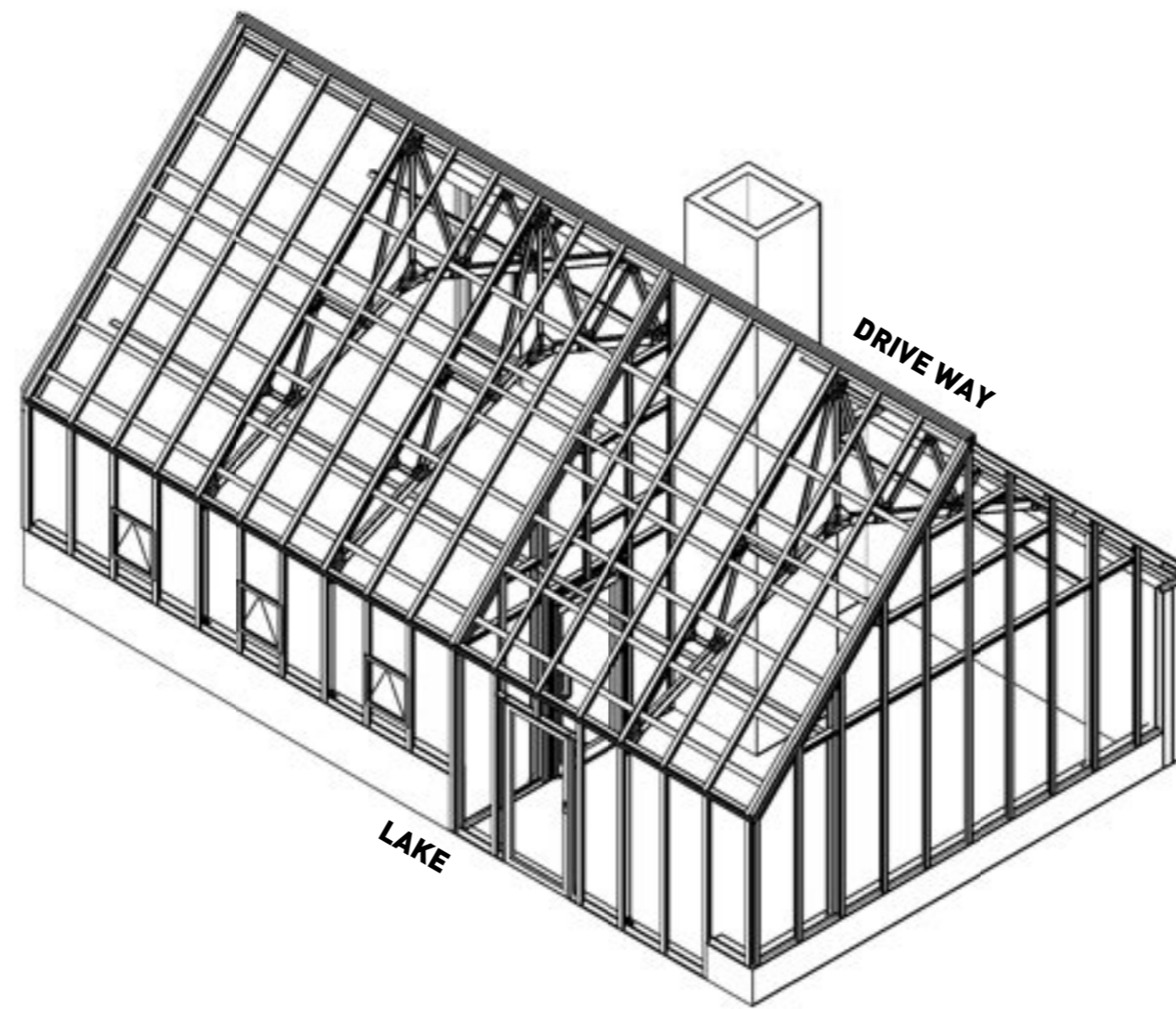
North-West View



South-West View



North-East View

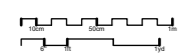


South-East View

**Isometrys may be outdated!
FOR DETAILED PLANS
CONSULT MANUFACTURER'S
SET OF PLANS**



**Renderings are not accurate.
For illustrative purposes only!**

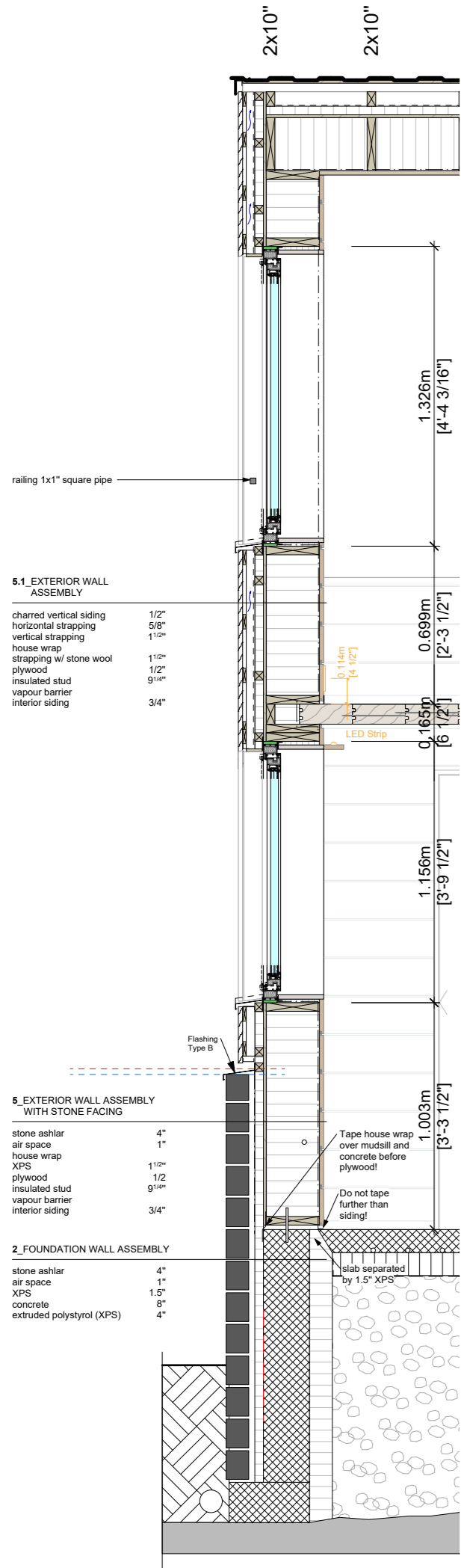
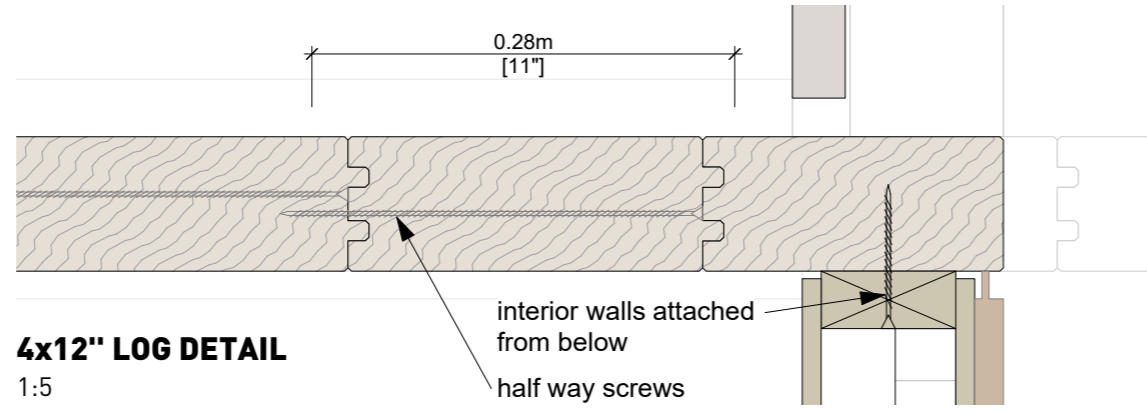


IMPORTANT

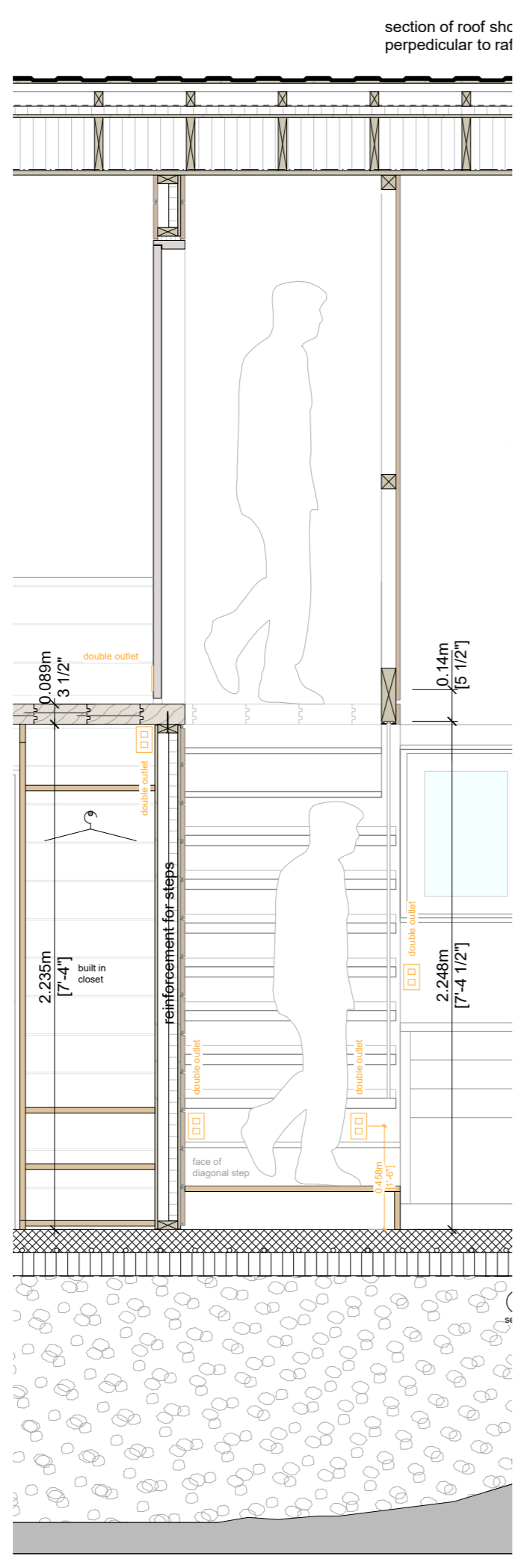
polished concrete floor is prone to staining.
Do not tape vapour barrier more than 1/2" on slab. Otherwise not covered by interior siding.

CHANGE LOG

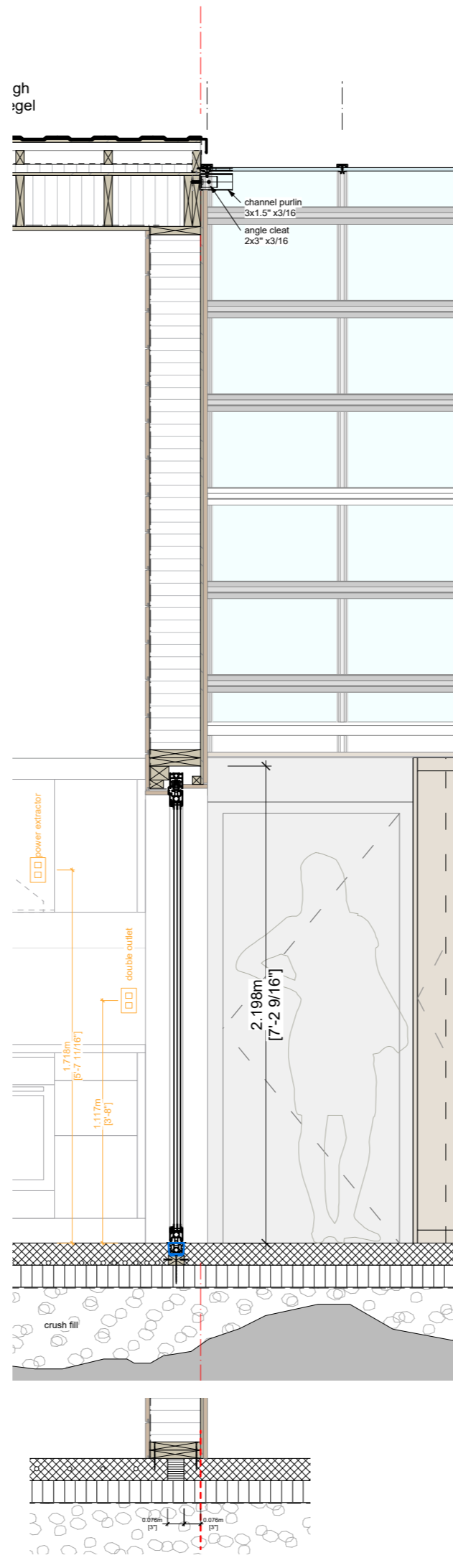
- 2020 APRIL 01
 - stairs redesigned
 - bedroom wall slightly moved
 - folding door in section B moved
 - exterior and interior window/door sizes
 - introduced "half way screws"
- 2020 AUG 21
 - added plywood below metal roof



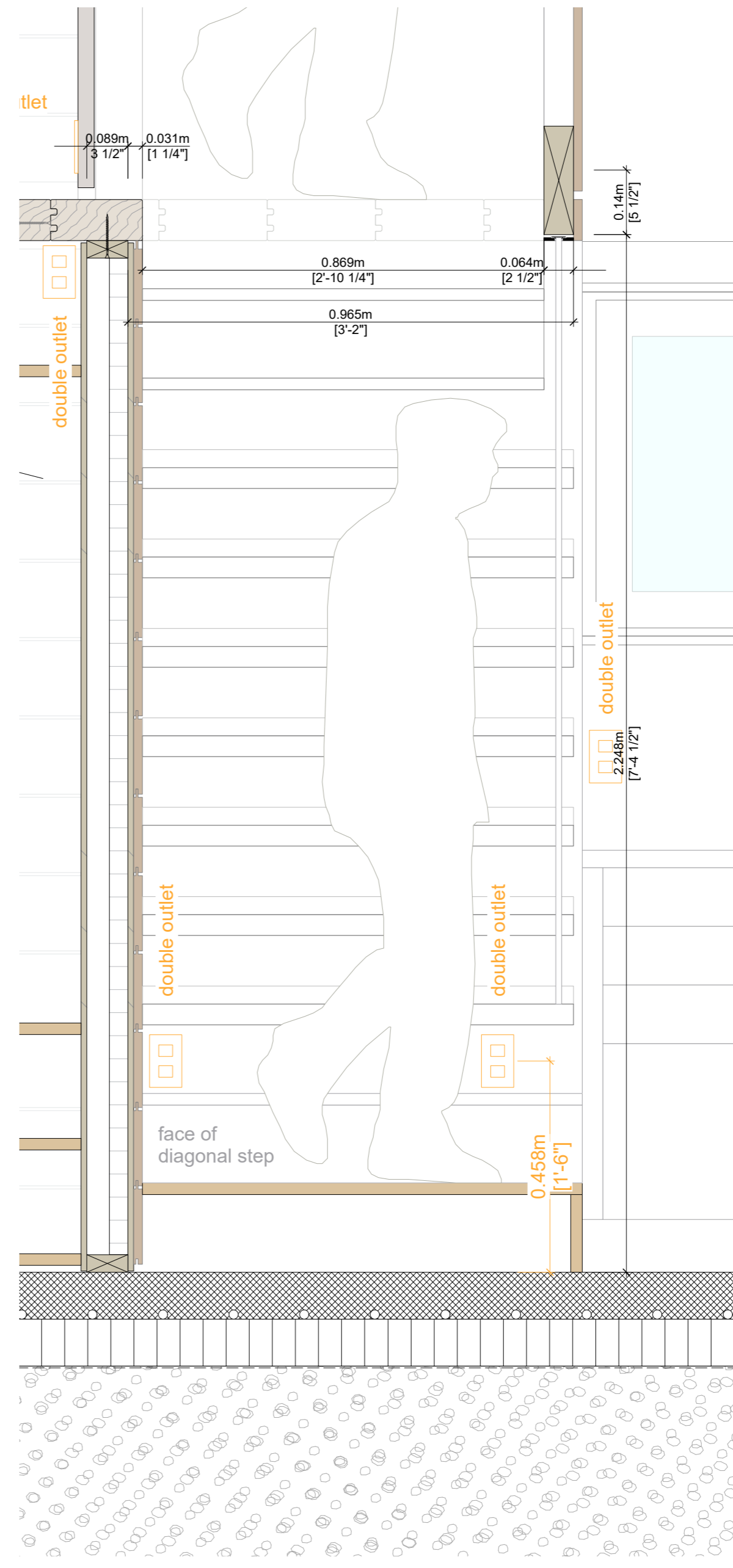
A section west elevation
1:25



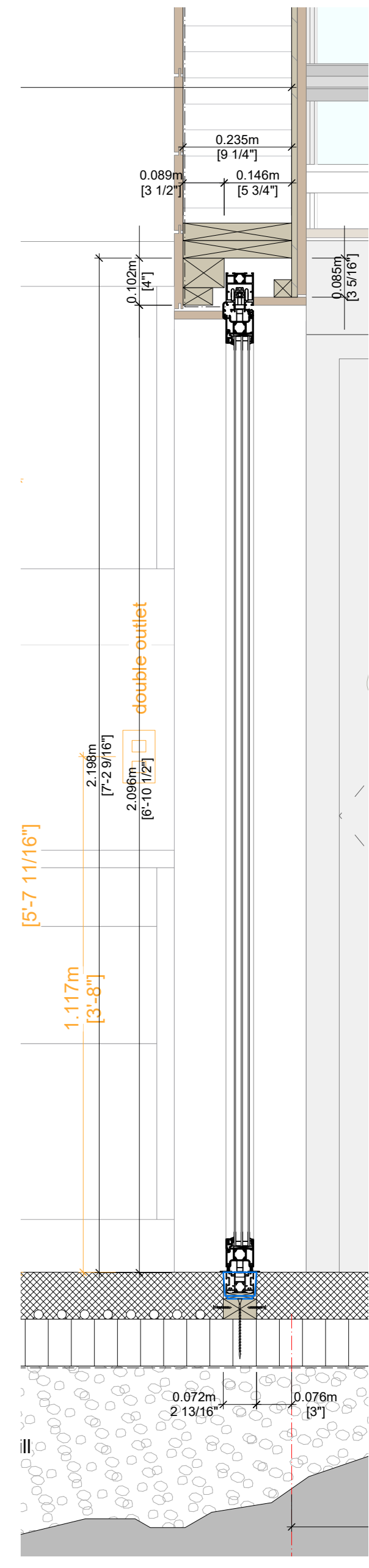
B1 section stairs
1:25



DETAIL B
1:25



DETAIL B1
1:10



DETAIL B
1:10

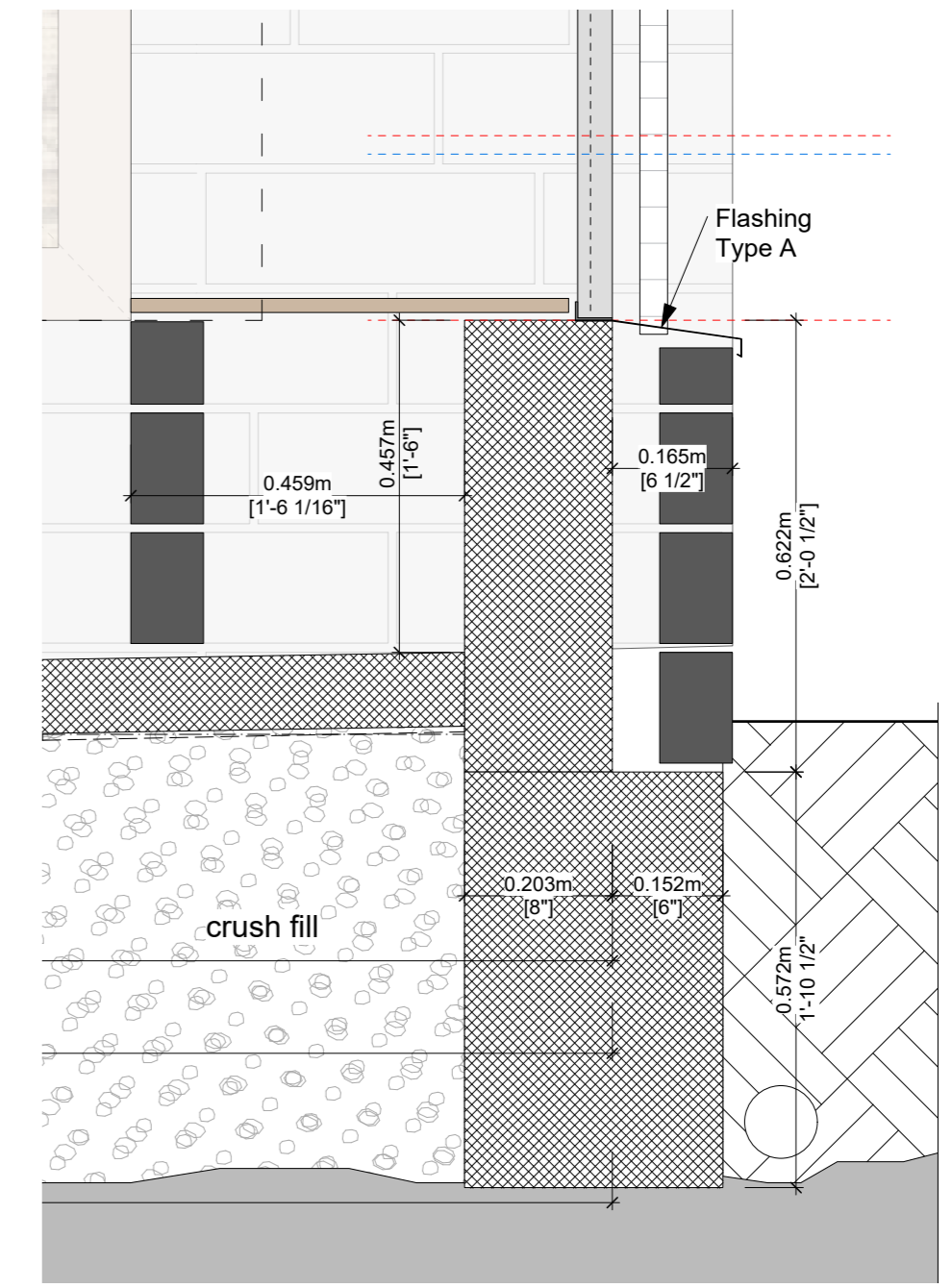
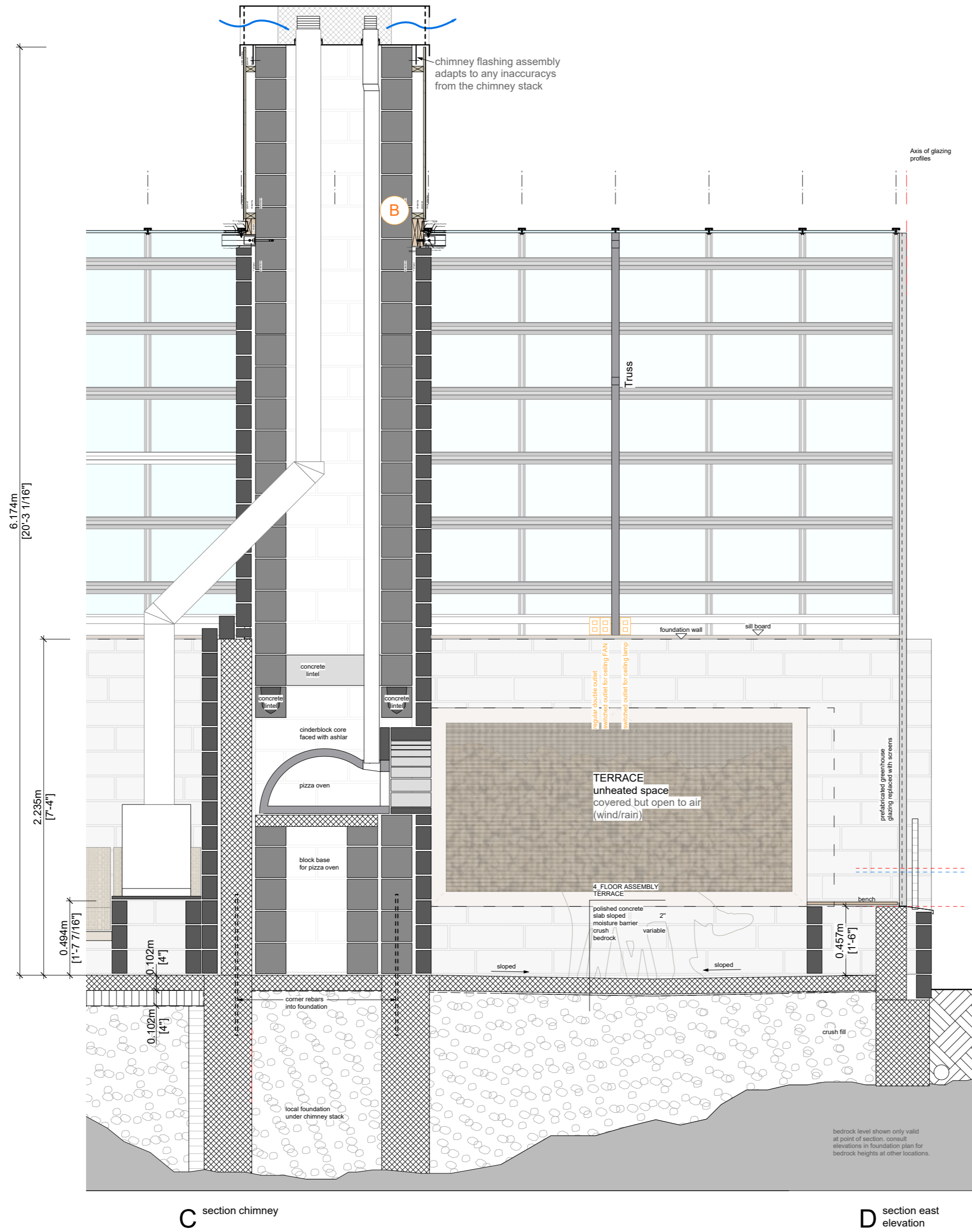
IMPORTANT

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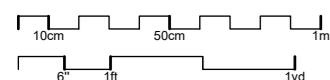
CHANGE LOG

2020 APRIL 01
- all blocks filled with concrete for greenhouse attachment

2020 Aug 23
- chimney cap



DETAIL D
1:10



Paper size is A2
(594x420mm)

039

LONGITUDINAL SECTION C/D
SCALE 1:25/10 - 2020/Aug/23

PHILIPP STÄHELI ARCHITEKT
KATHARINA-SULZER-PLATZ 2
CH-8400 WINTERTHUR
SWITZERLAND

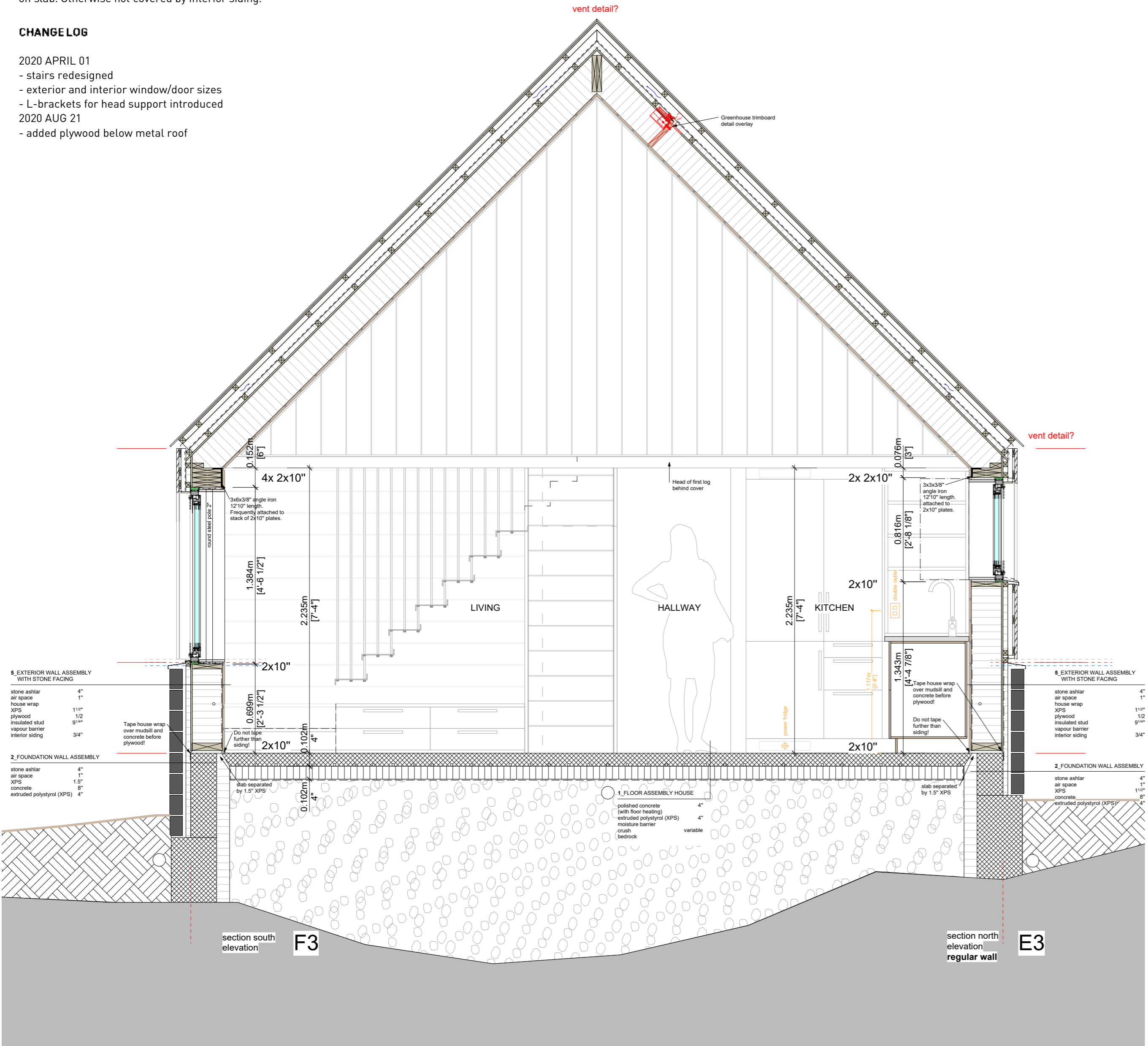
BUILDING SITE
1203 BING TR, Algonquin Highlands
HINDON LAKE, HALIBURTON
ONTARIO, CANADA, K1M 1J2

IMPORTANT

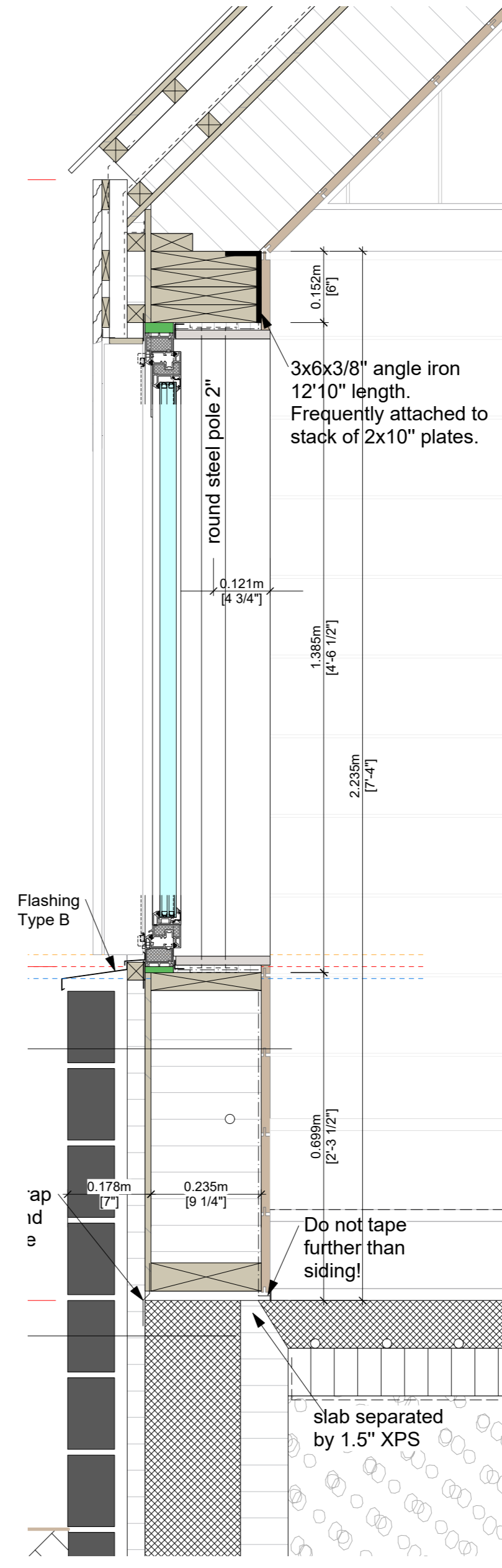
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CHANGE LOG

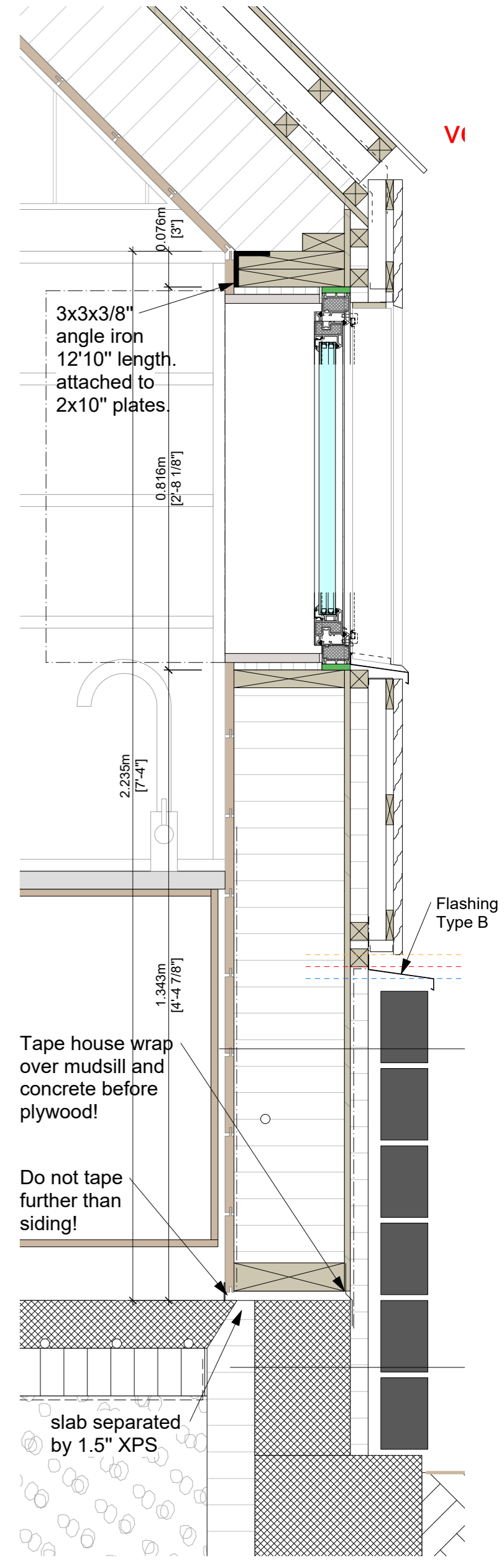
- 2020 APRIL 01
- stairs redesigned
- exterior and interior window/door sizes
- L-brackets for head support introduced
- 2020 AUG 21
- added plywood below metal roof



5 EXTERIOR WALL ASSEMBLY WITH STONE FACING		2 FOUNDATION WALL ASSEMBLY	
stone ashlar	4"	stone ashlar	4"
air space	1"	air space	1"
house wrap	110"	XPS	110"
XPS	1/2"	plywood	9/16"
plywood	1/2"	insulated stud	9/16"
insulated stud	9/16"	vapour barrier	3/4"
vapour barrier	3/4"	interior siding	3/4"
interior siding	3/4"		



CROSS SECTION F3 - south wall
1:10



CROSS SECTION E3 - north wall
1:10

CROSS SECTION F3-E3
1:25

IMPORTANT

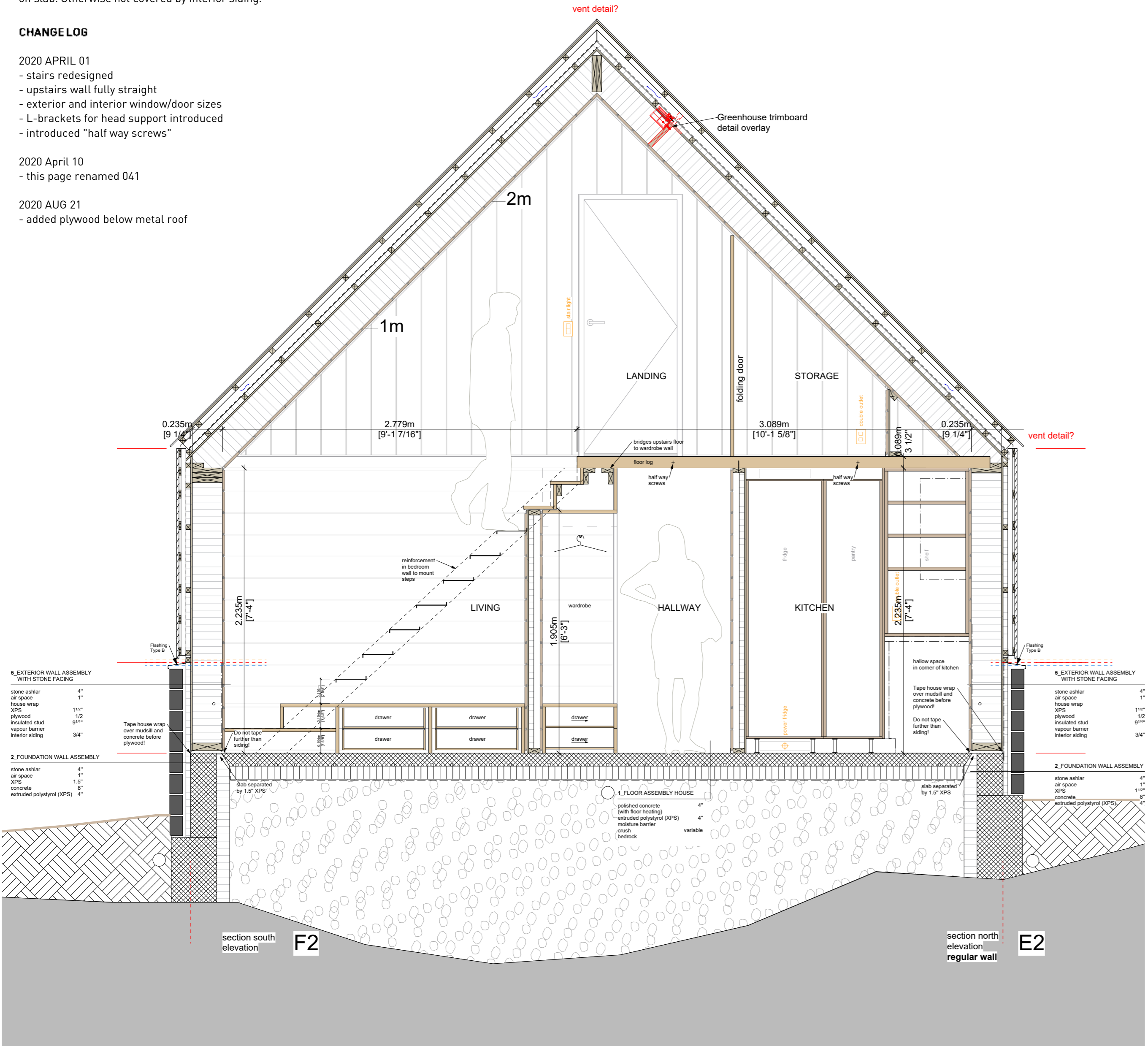
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CHANGE LOG

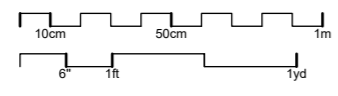
- 2020 APRIL 01
 - stairs redesigned
 - upstairs wall fully straight
 - exterior and interior window/door sizes
 - L-brackets for head support introduced
 - introduced "half way screws"

- 2020 April 10
 - this page renamed 041

- 2020 AUG 21
 - added plywood below metal roof



CROSS SECTION F2-E2
1:25

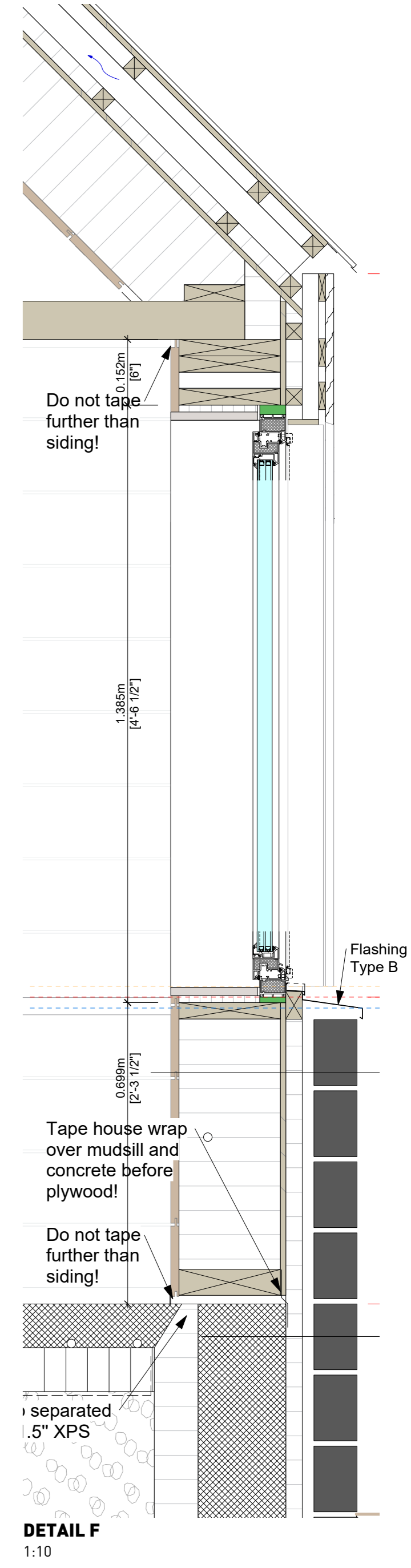
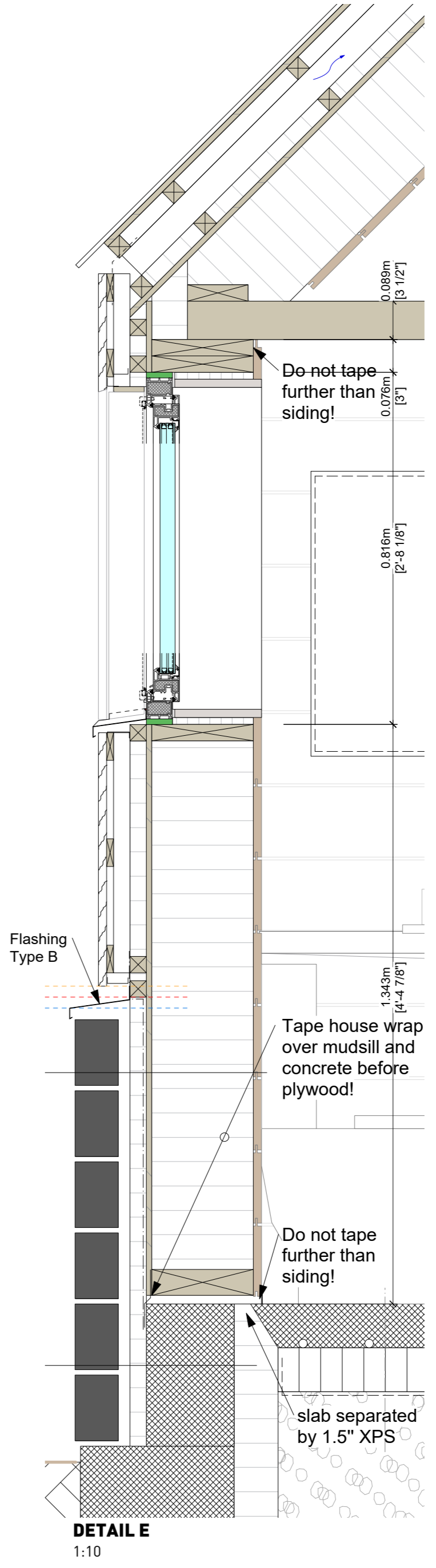
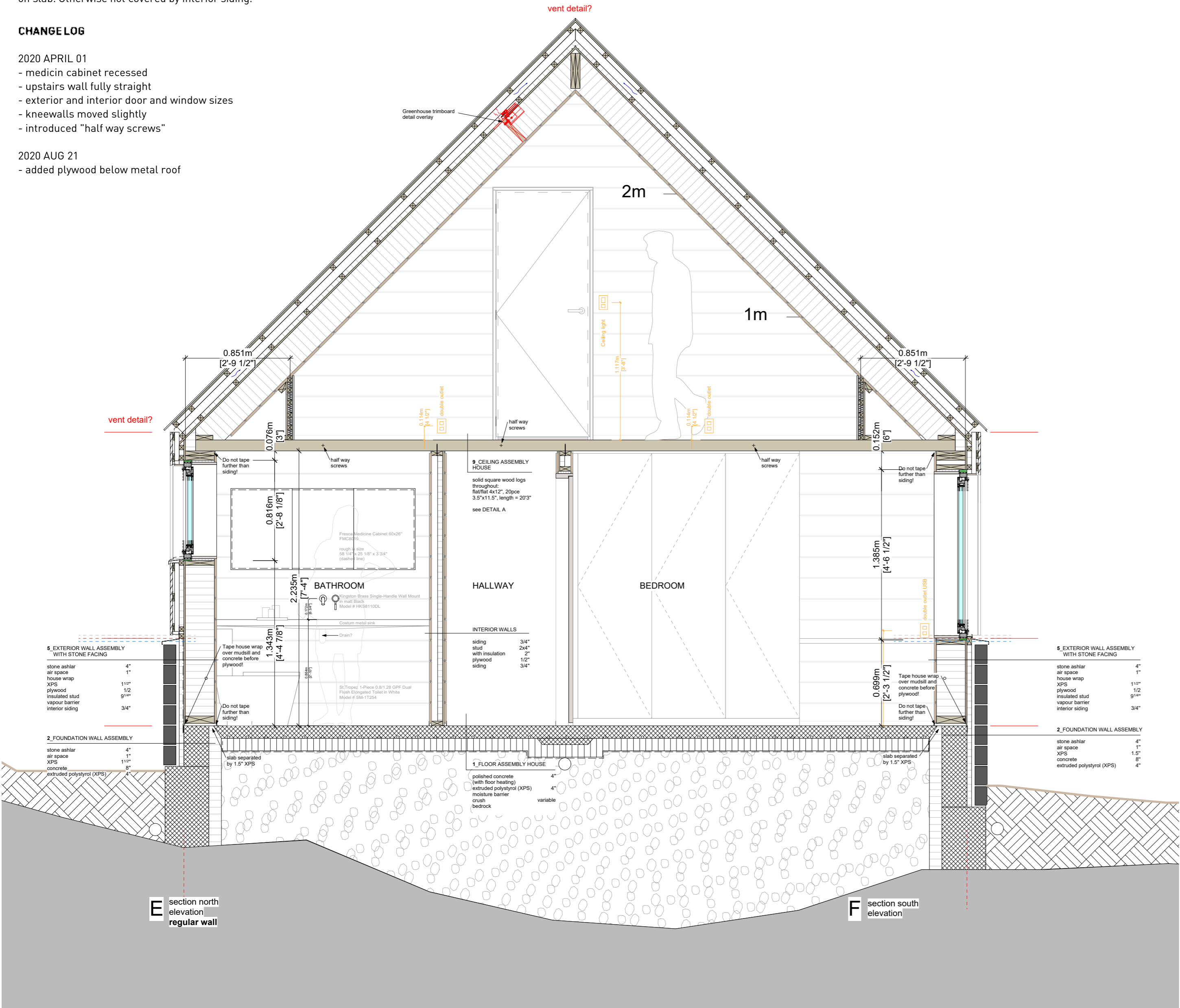


IMPORTANT
 polished concrete floor is prone to staining.
 Do not tape vapour barrier more than 1/2"
 on slab. Otherwise not covered by interior siding.

CHANGE LOG

2020 APRIL 01
 - medicine cabinet recessed
 - upstairs wall fully straight
 - exterior and interior door and window sizes
 - kneewalls moved slightly
 - introduced "half way screws"

2020 AUG 21
 - added plywood below metal roof



CROSS SECTION E-F
 1:25

IMPORTANT
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 Do not tape vapour barrier more than 1/2" on slab. Otherwise not covered by interior siding.

CHANGE LOG

- 2020 APRIL 01
- exterior and interior door and window sizes
- head detail house door D2
- switch layout added

shading power in ridge profile

cable pass through under ridge profile into metal roof

Flashing Type A

8_EXTERIOR WALL GREENHOUSE WITH STONE FACING
 stone ashlar 4"
 air space 1"
 XPS 110"
 concrete 6"

workspace table
 storage
 surface mounted outlet
 0.711m [2'-4"]

GREENHOUSE unheated space covered and closed

3_FLOOR ASSEMBLY GREENHOUSE
 polished concrete slab 4"
 plastic foil
 insulation 4"
 moisture barrier
 crush
 bedrock variable

looking west

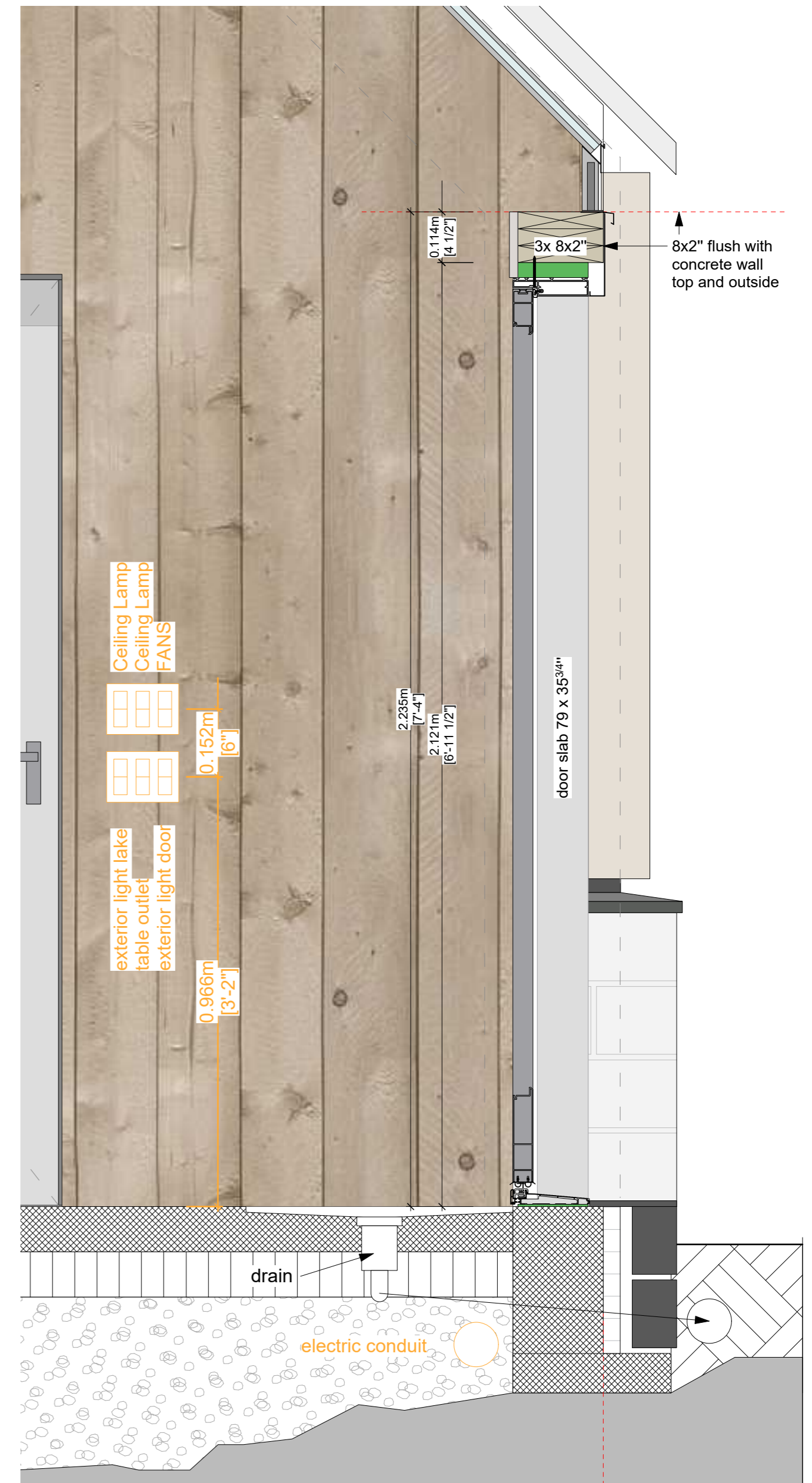
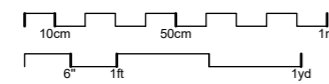
0.114m [4 1/2"]
 top of concrete wall
 2x8" flush with concrete wall on outside

0.152m [6"]
 2.235m [7'-4"]
 2.121m [6'-11 1/2"]
 mud trap
 electric conduit

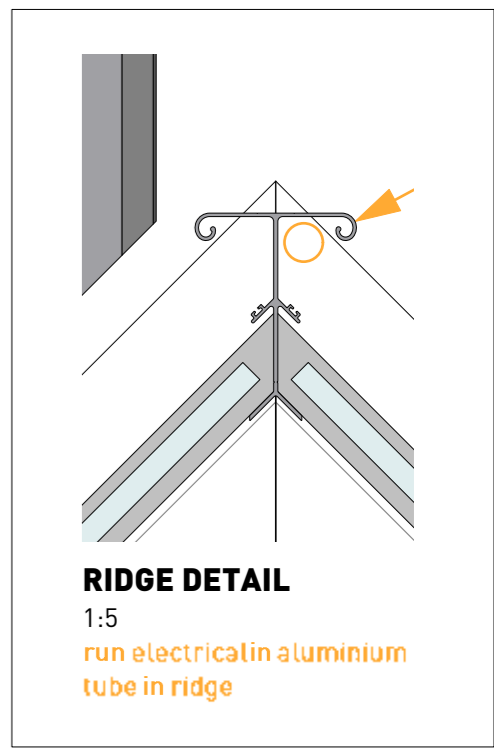
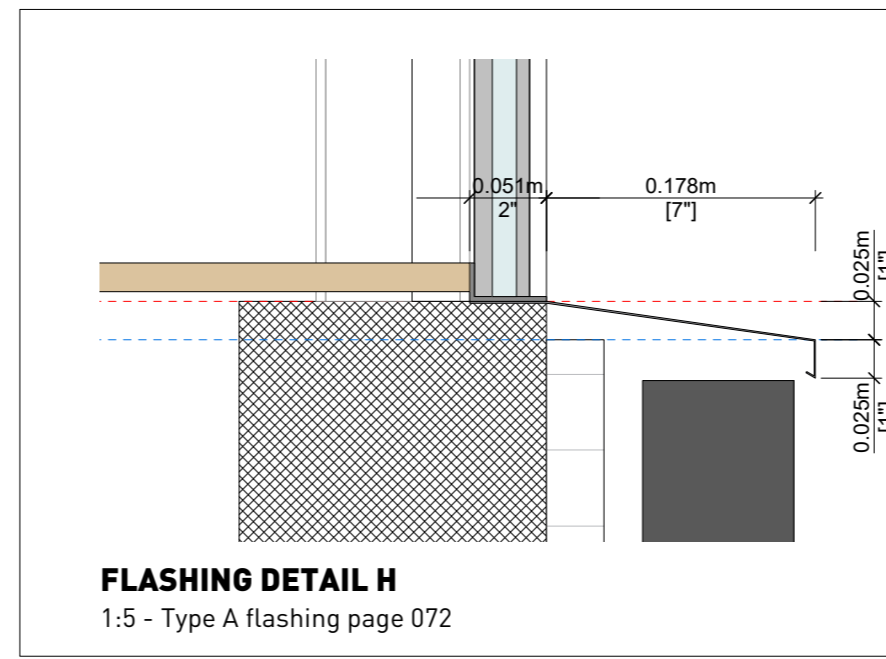
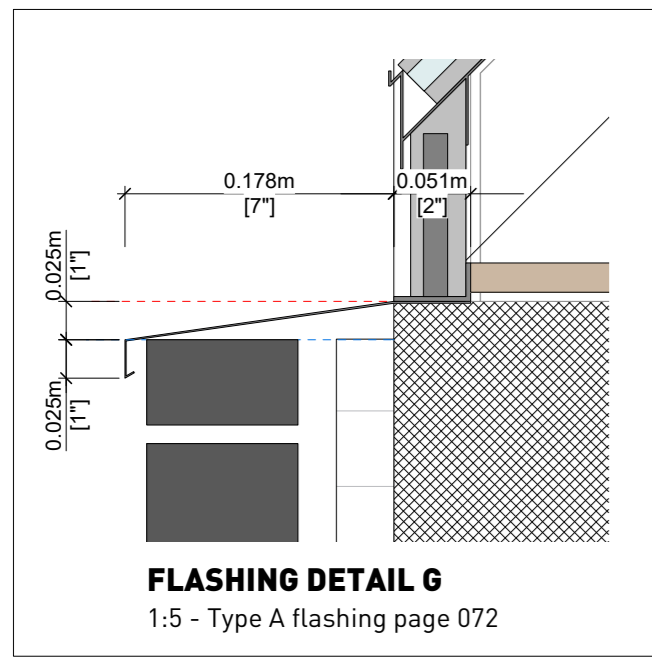
H section south elevation

K section north elevation

CROSS SECTION H-K
 1:25

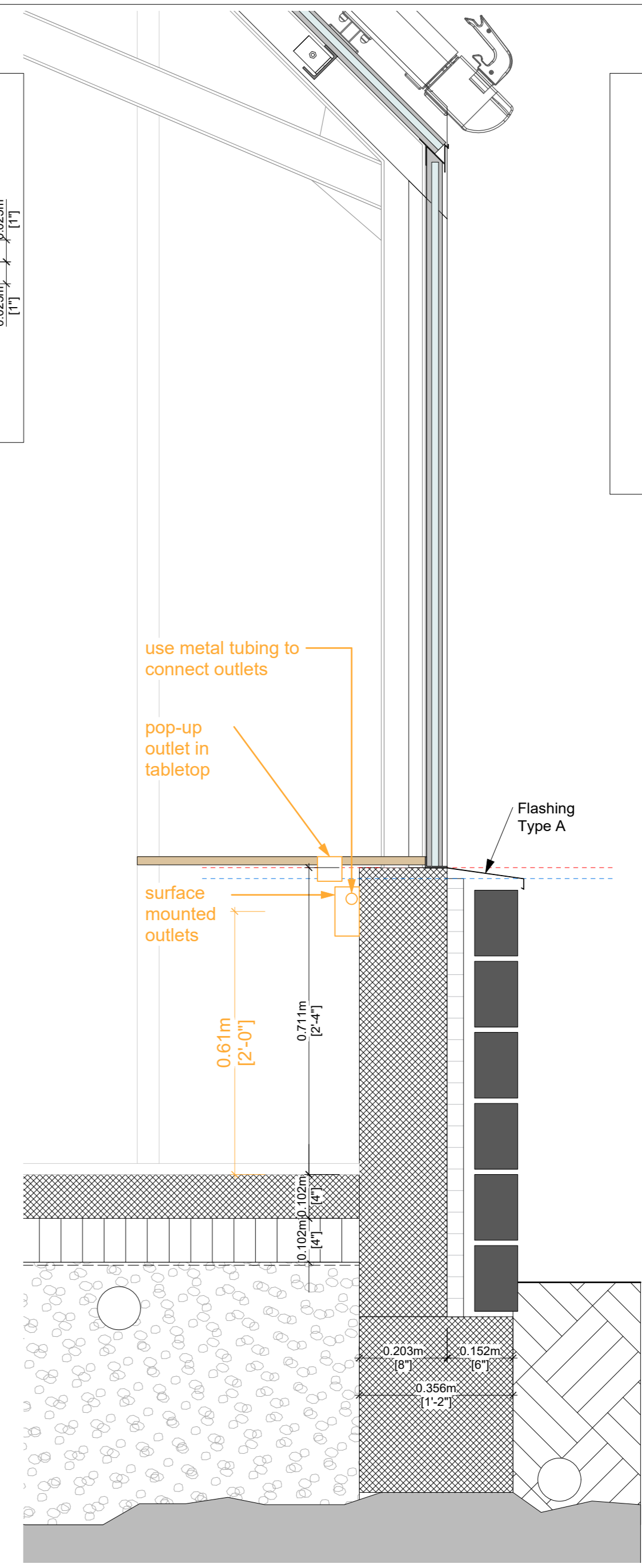
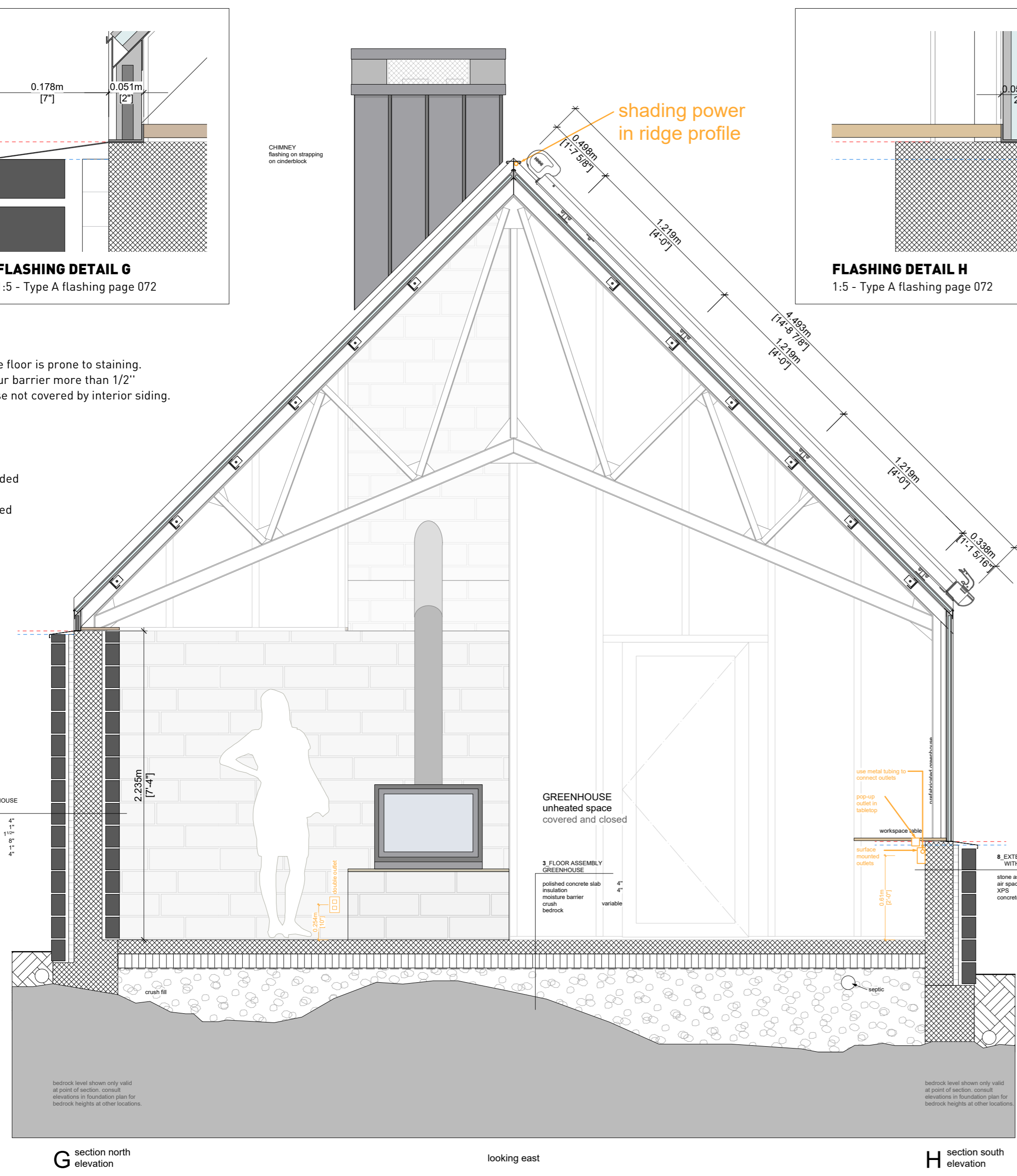


DETAIL K
 1:10 - House door D2



IMPORTANT
 polished concrete floor is prone to staining.
 Do not tape vapour barrier more than 1/2"
 on slab. Otherwise not covered by interior siding.

CHANGE LOG
 2020 APRIL 01
 - outlet layout added
 - truss added
 - fireplace changed

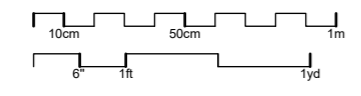


G section north elevation

looking east

H section south elevation

CROSS SECTION G-H
 1:25



DETAIL H
 1:10

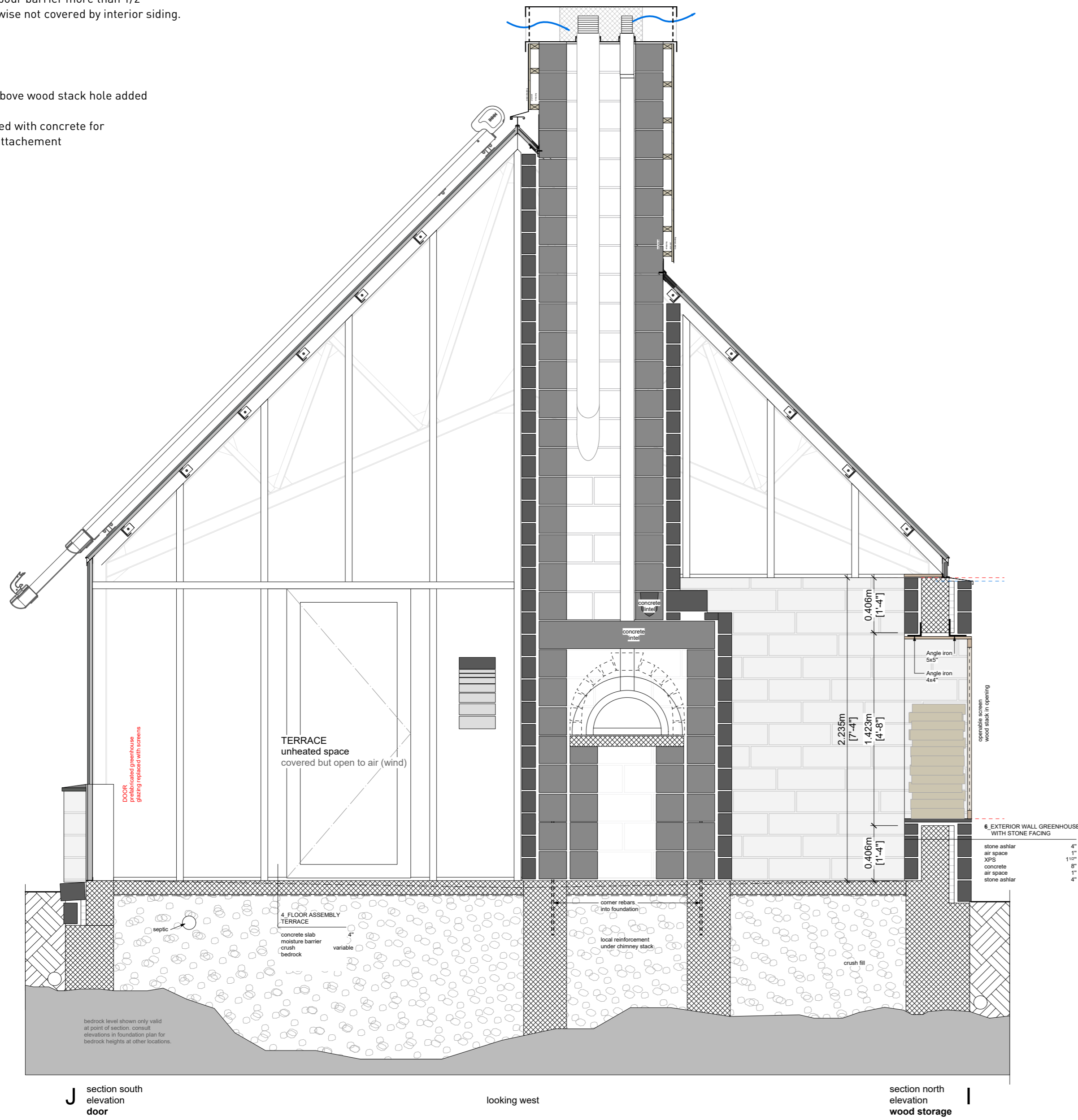
IMPORTANT

polished concrete floor is prone to staining.
Do not tape vapour barrier more than 1/2" on slab. Otherwise not covered by interior siding.

CHANGE LOG

2020 APRIL 01
- angle irons above wood stack hole added
- truss added
- all blocks filled with concrete for greenhouse attachment

2020 Aug 23
- chimney top

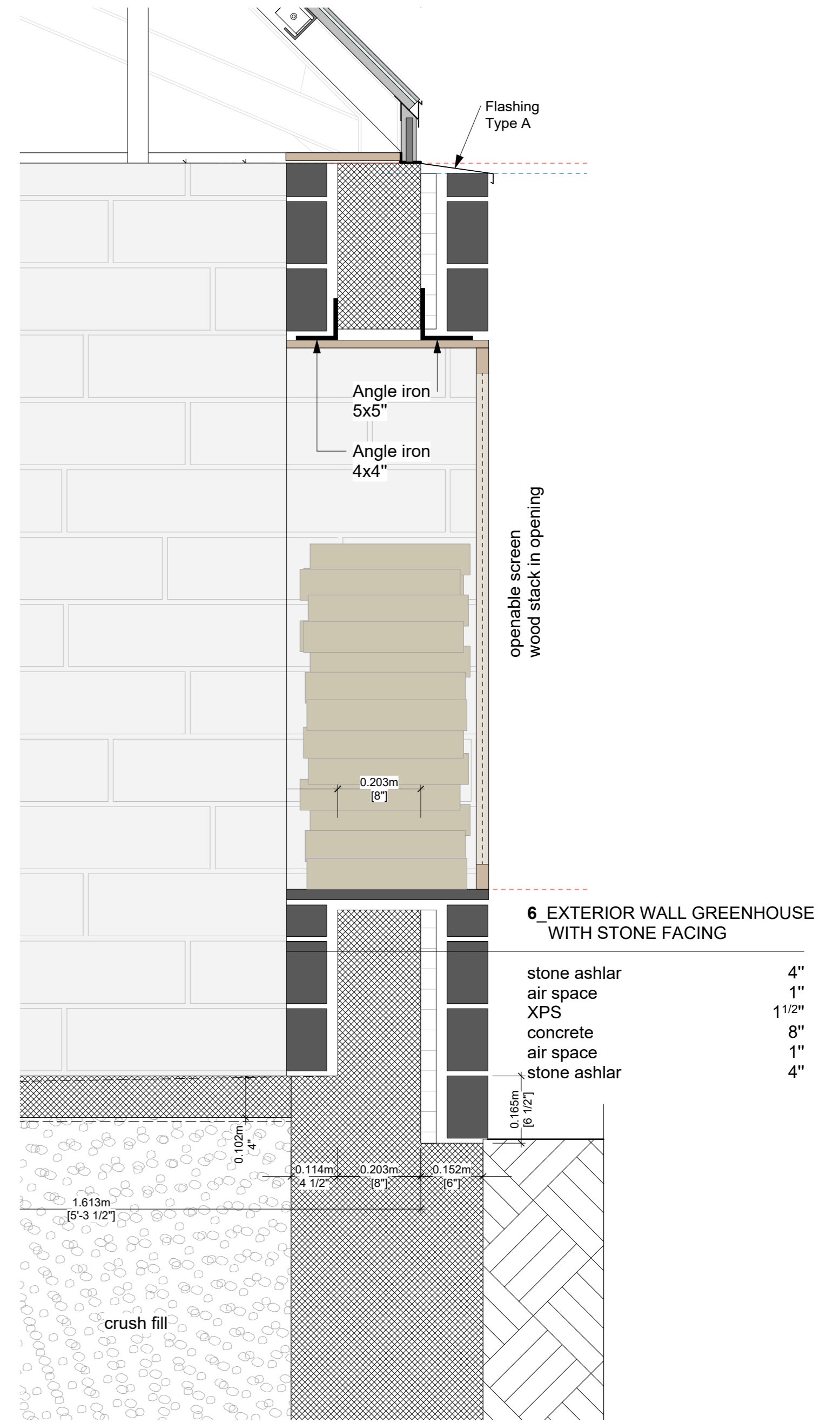
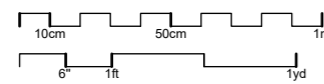


J section south elevation door

looking west

section north elevation wood storage

CROSS SECTION J-I
1:25



6 EXTERIOR WALL GREENHOUSE WITH STONE FACING

stone ashlar	4"
air space	1"
XPS	1 1/2"
concrete	8"
air space	1"
stone ashlar	4"

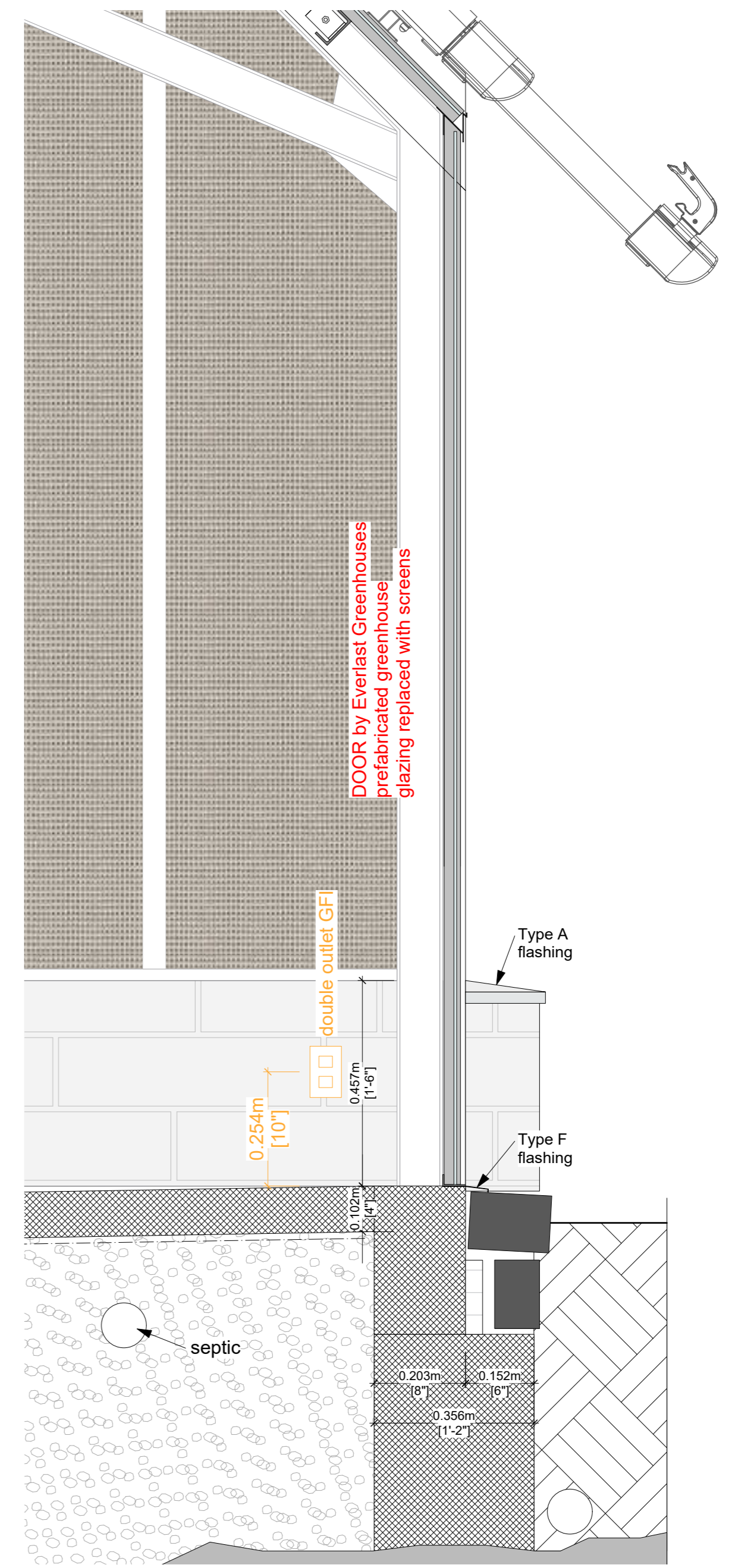
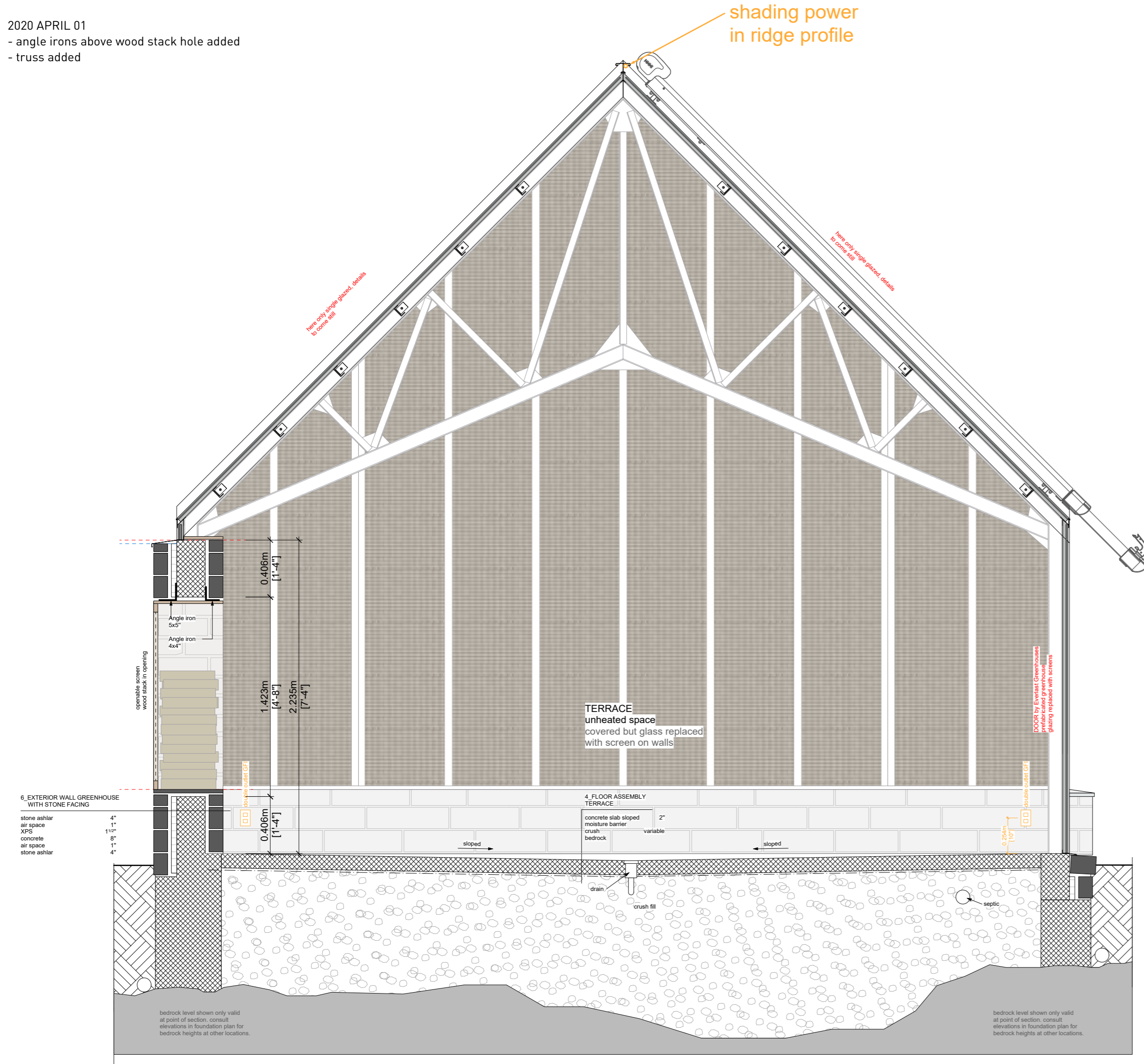
DETAIL I
1:10

IMPORTANT

polished concrete floor is prone to staining.
Do not tape vapour barrier more than 1/2" on slab. Otherwise not covered by interior siding.

CHANGE LOG

2020 APRIL 01
- angle irons above wood stack hole added
- truss added



I section north elevation wood storage looking east J section south elevation door

CROSS SECTION I-J
1:25

DETAIL J
1:10

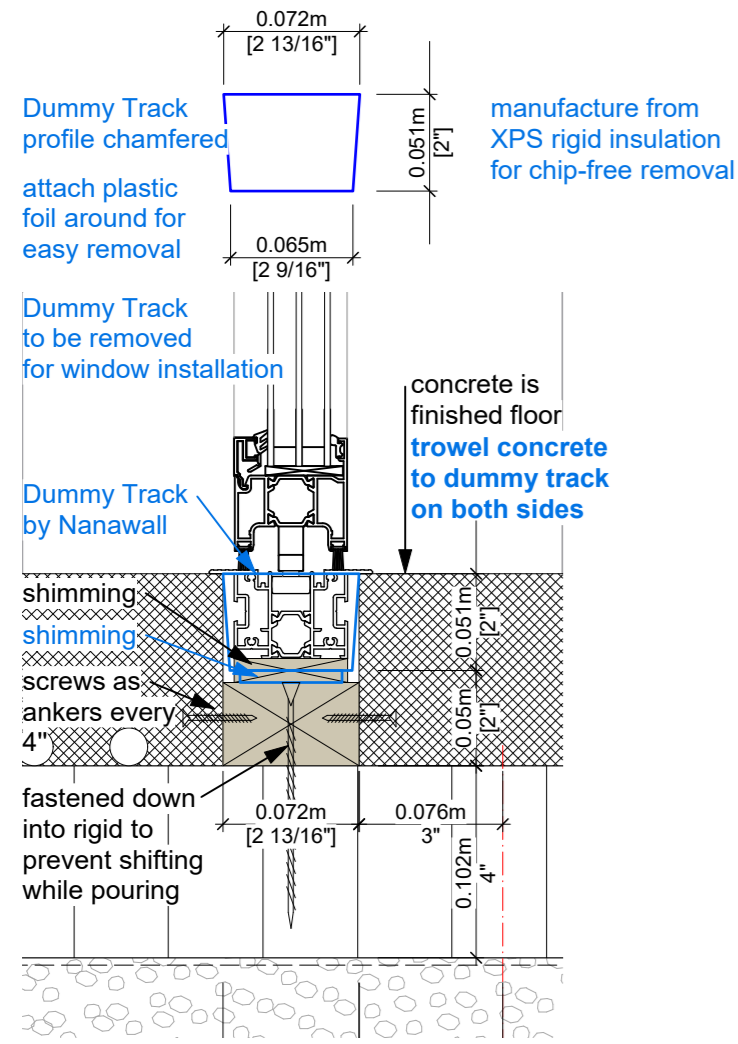
CHANGELOG

2020 APRIL 01

- window size changed
- dummy track detail introduced
- position of slab separation moved

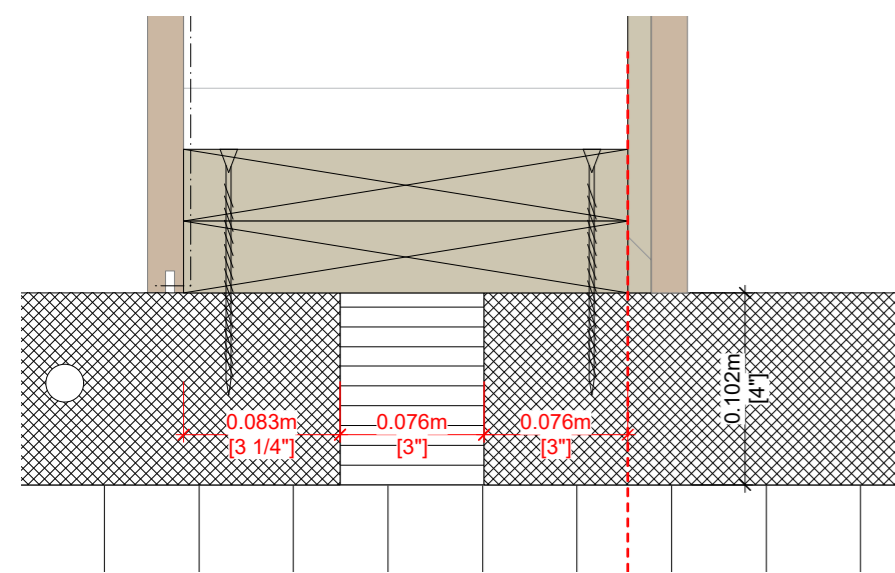
2020 May 16

- added slab separation under framing



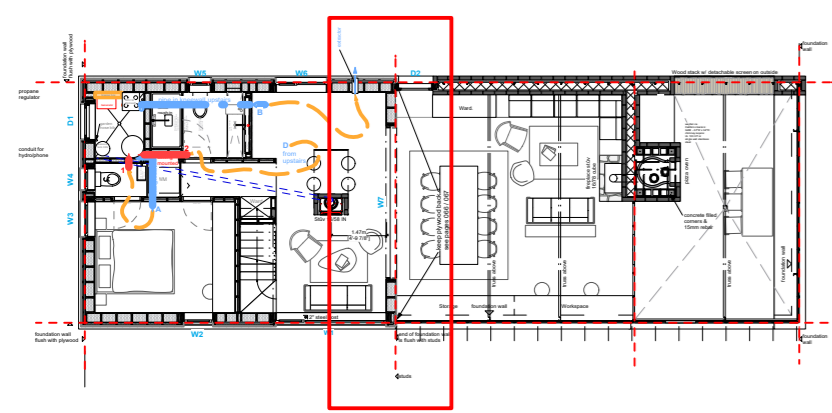
DETAIL WINDOW TRACK

1:4



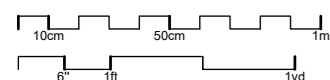
DETAIL SLAB SEPARATION

1:4

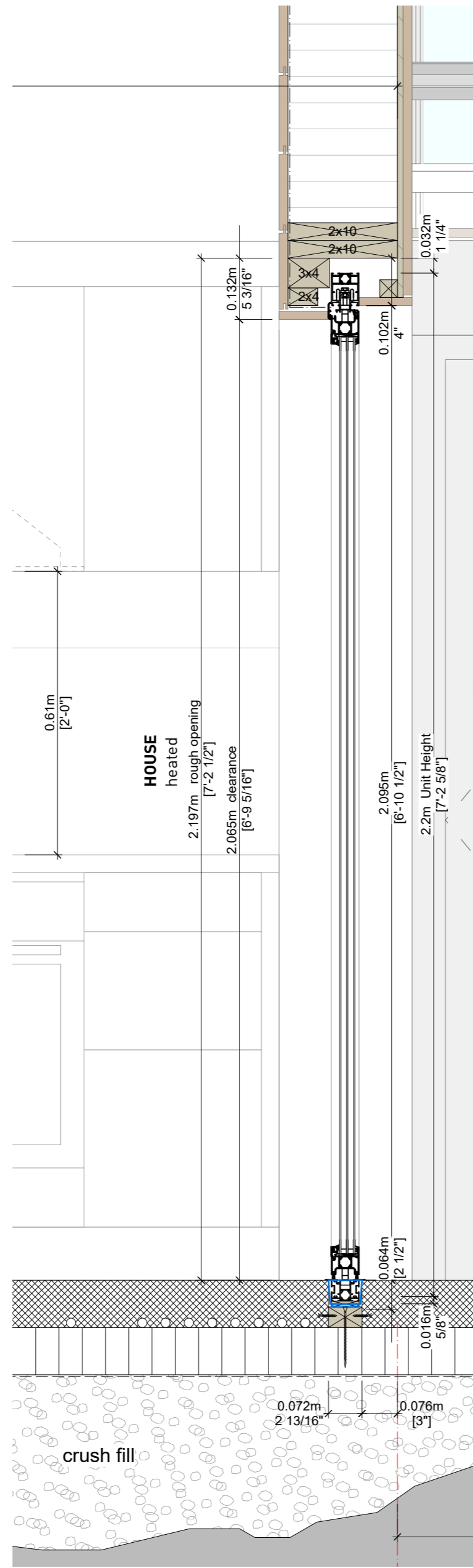


PLAN

1:200



Paper size is A2
(594x420mm)



DETAIL B

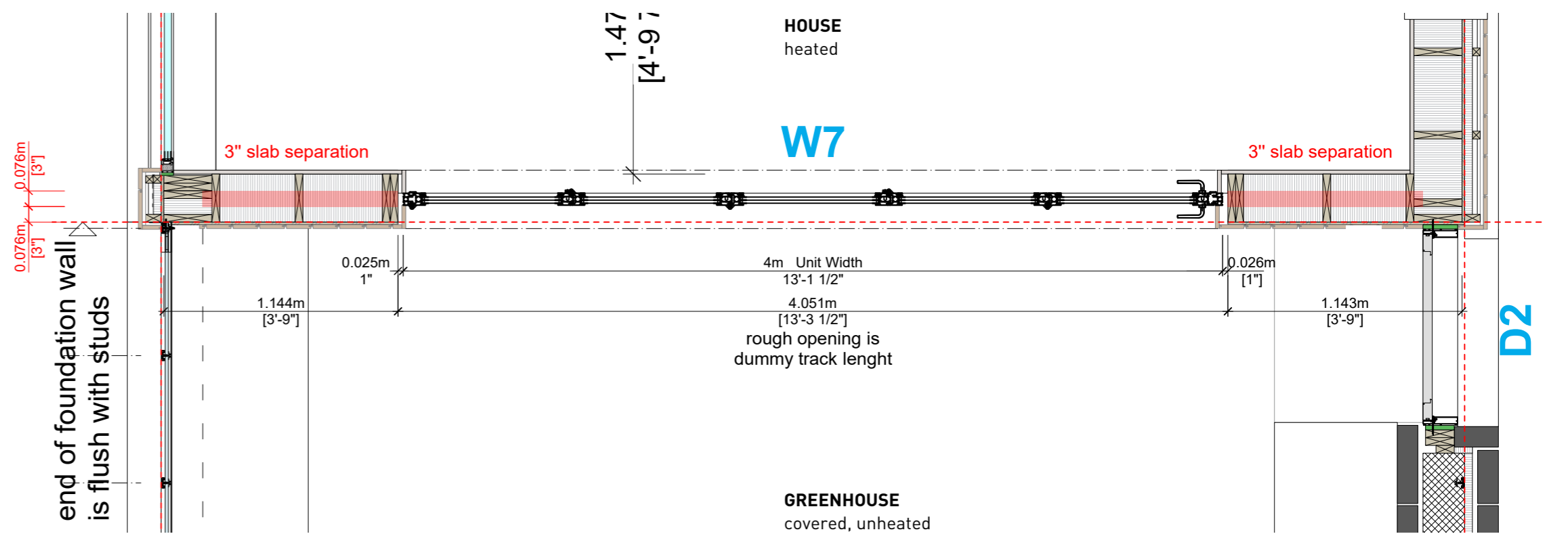
1:10

GREENHOUSE
covered, unheated



CROSSECTION H-K

1:25



GROUND FLOOR PLAN

1:25

IMPORTANT
polished concrete floor is prone to staining.
Do not tape vapour barrier more than 1/2\"/>

050

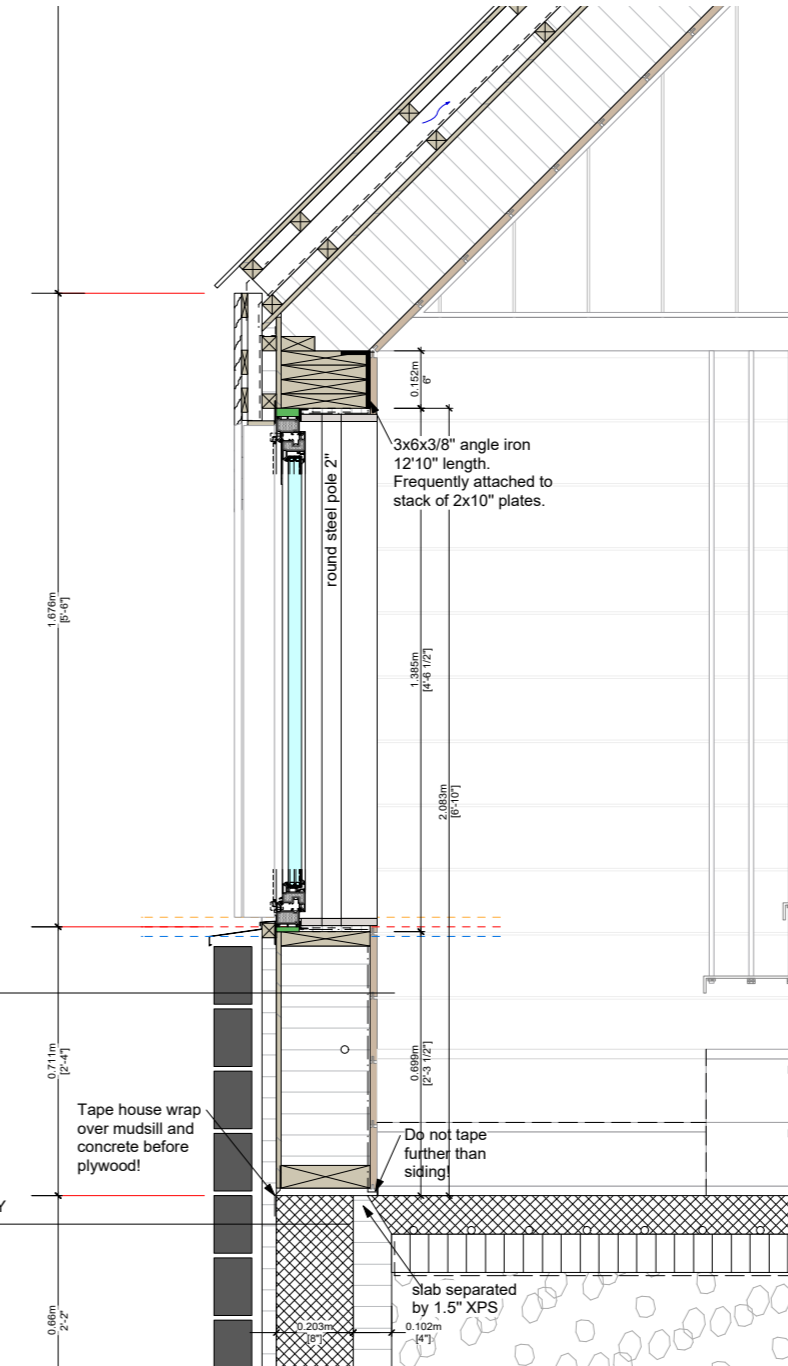
Detail NANAWALL Window
SCALE 1:25/10 - 2020/May/16

PHILIPP STÄHELI ARCHITEKT
KATHARINA-SULZER-PLATZ 2
CH-8400 WINTERTHUR
SWITZERLAND

BUILDING SITE
1203 BING TR, Algonquin Highlands
HINDON LAKE, HALIBURTON
ONTARIO, CANADA, K1M 1J2



SOUTH ELEVATION
1:20



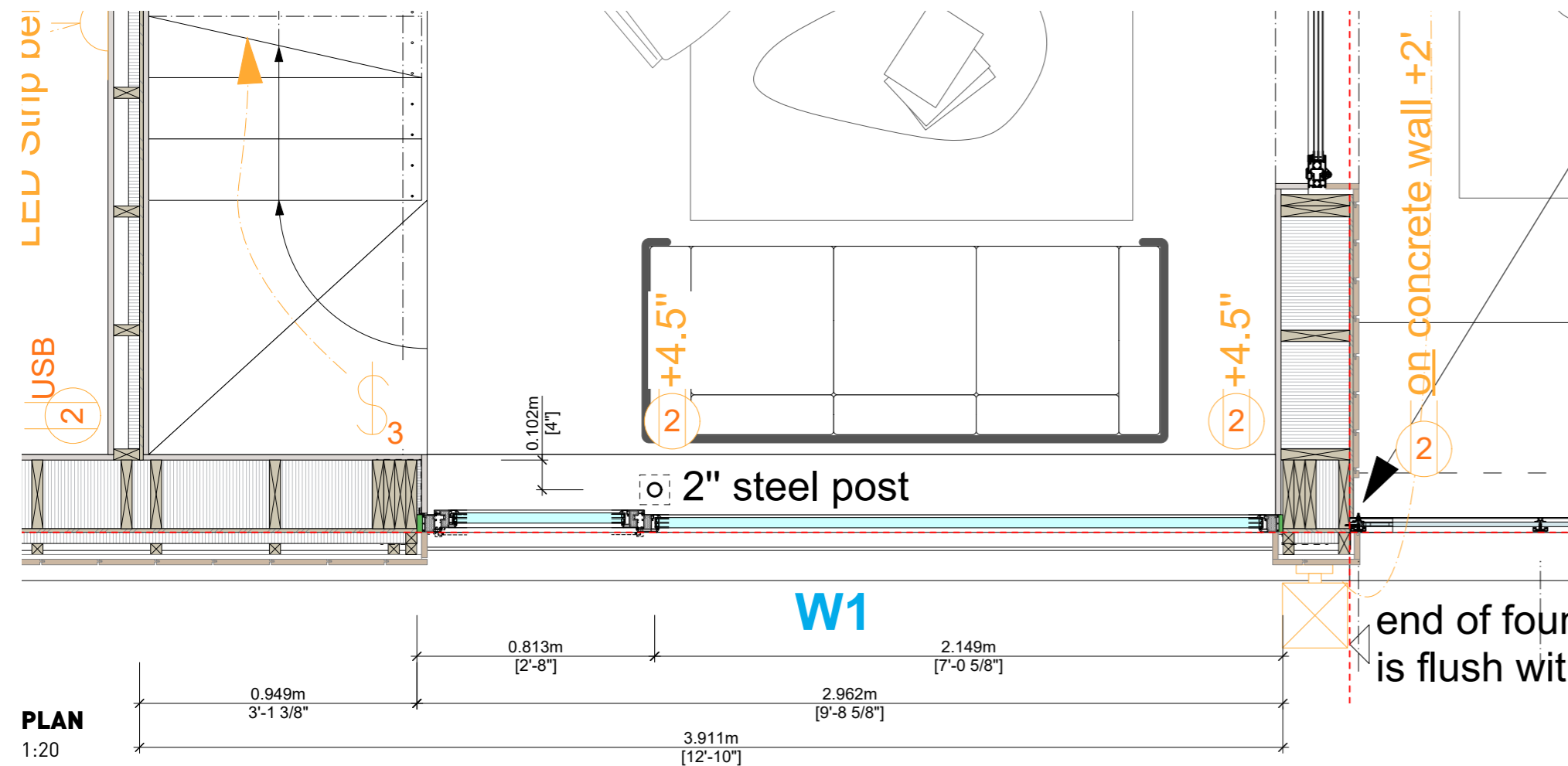
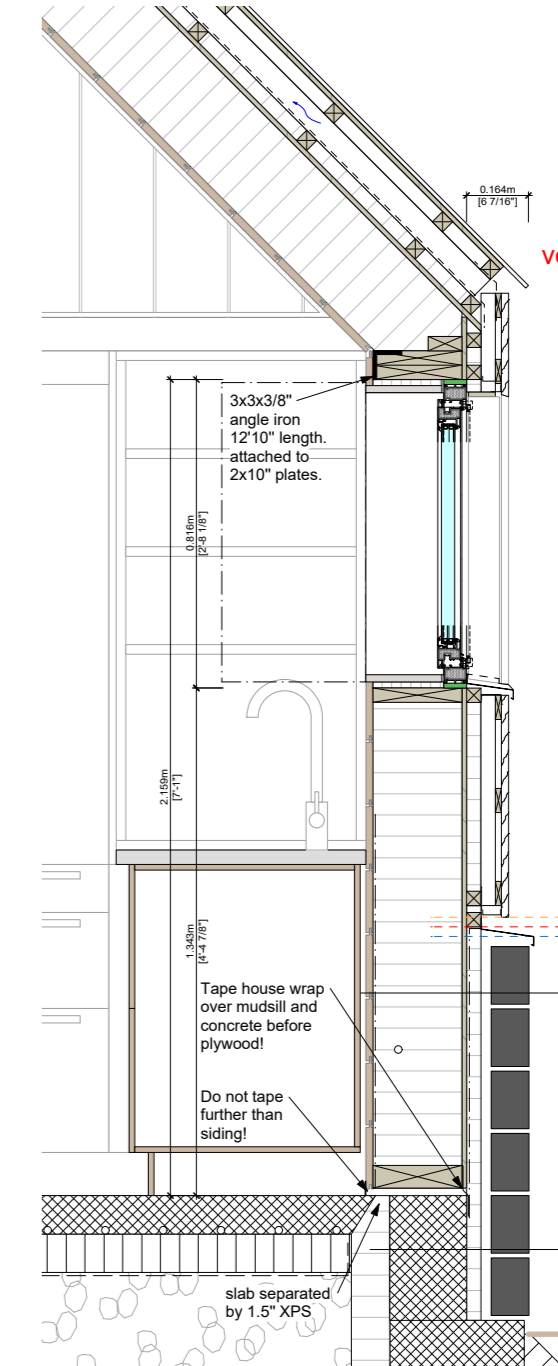
5_EXTERIOR WALL ASSEMBLY WITH STONE FACING

stone ashlar	4"
air space	1"
house wrap	1 1/2"
XPS	1/2"
plywood	9 1/4"
insulated stud	9 1/4"
vapour barrier	3/4"
interior siding	3/4"

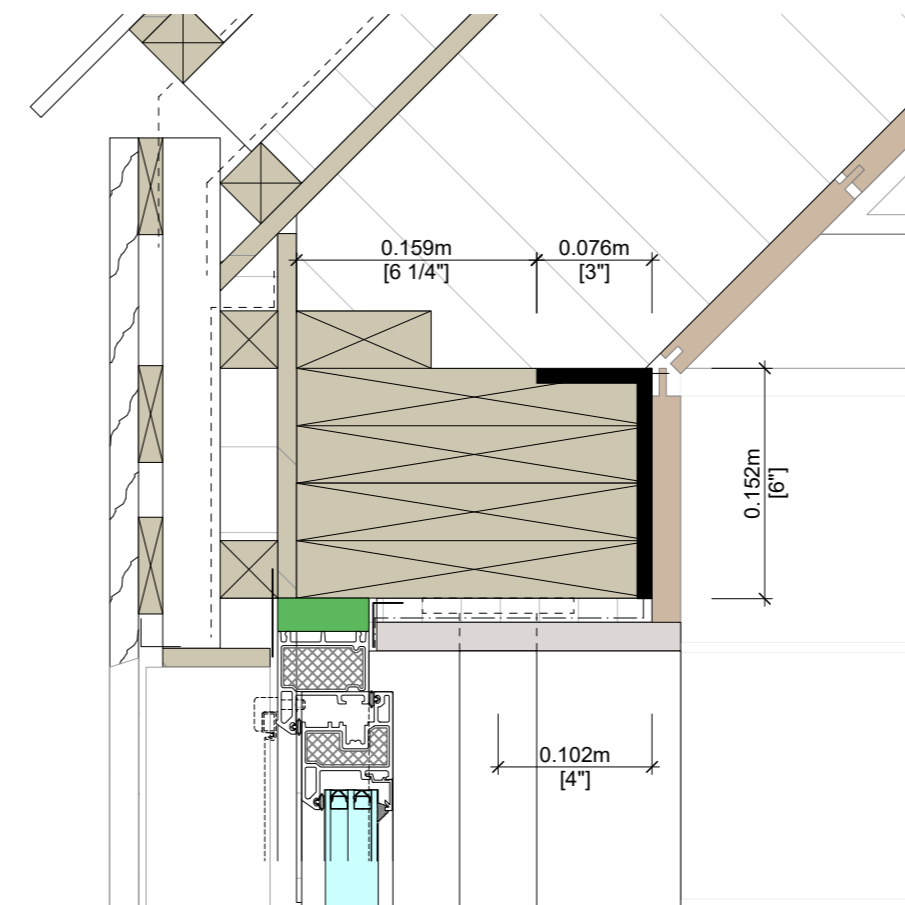
2_FOUNDATION WALL ASSEMBLY

stone ashlar	4"
air space	1"
XPS	1.5"
concrete	8"
extruded polystyrol (XPS)	4"

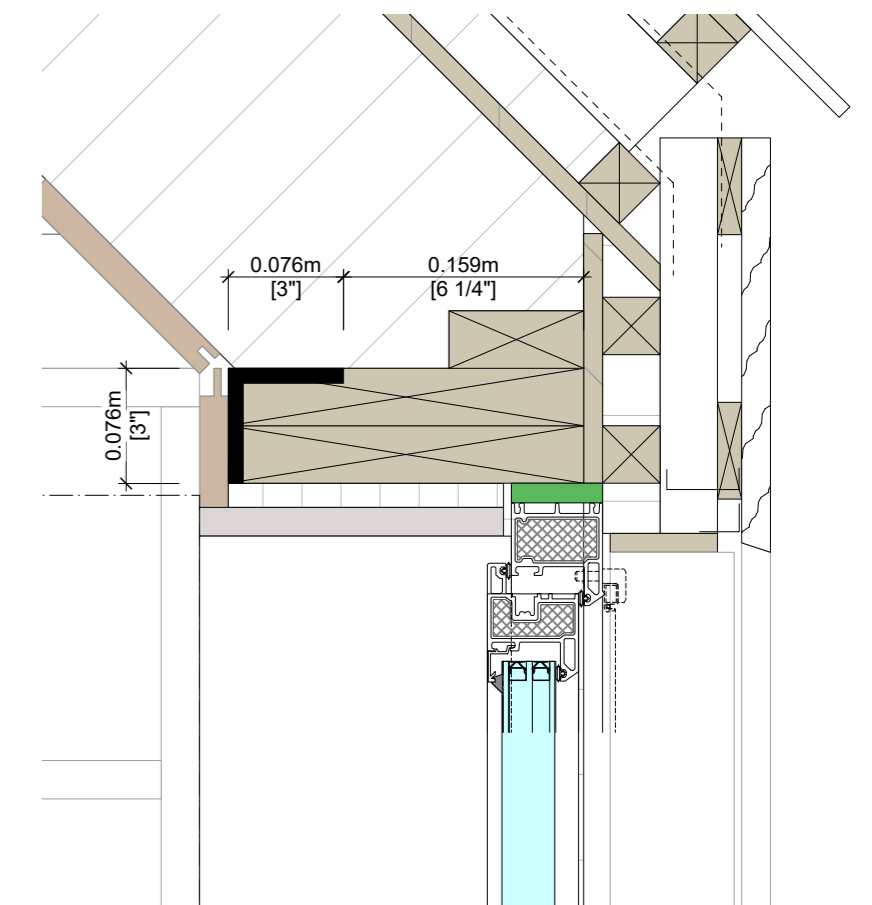
CROSSSECTION
1:20



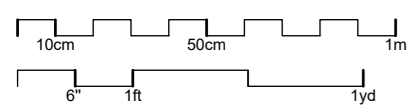
PLAN
1:20



HEAD DETAIL south
1:5



HEAD DETAIL north
1:5



Paper size is A2
(594x420mm)

IMPORTANT

polished concrete floor is prone to staining.
Do not tape vapour barrier more than 1/2"
on slab. Otherwise not covered by interior siding.

052

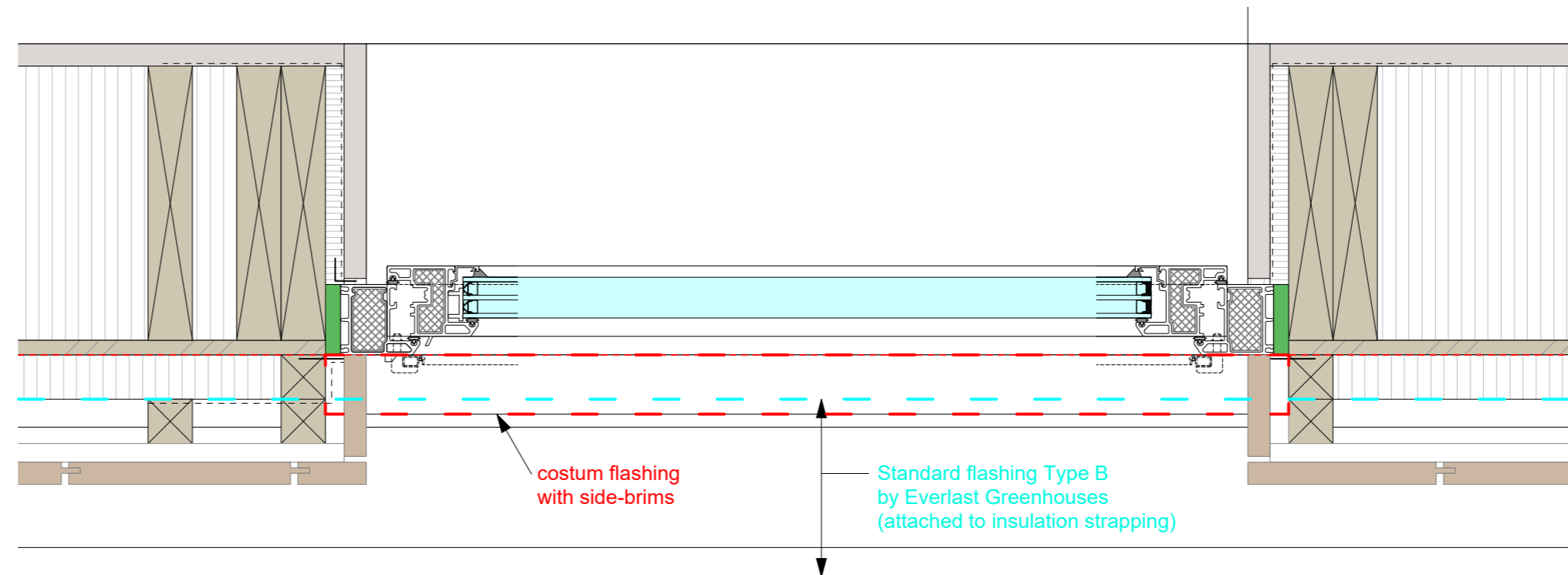
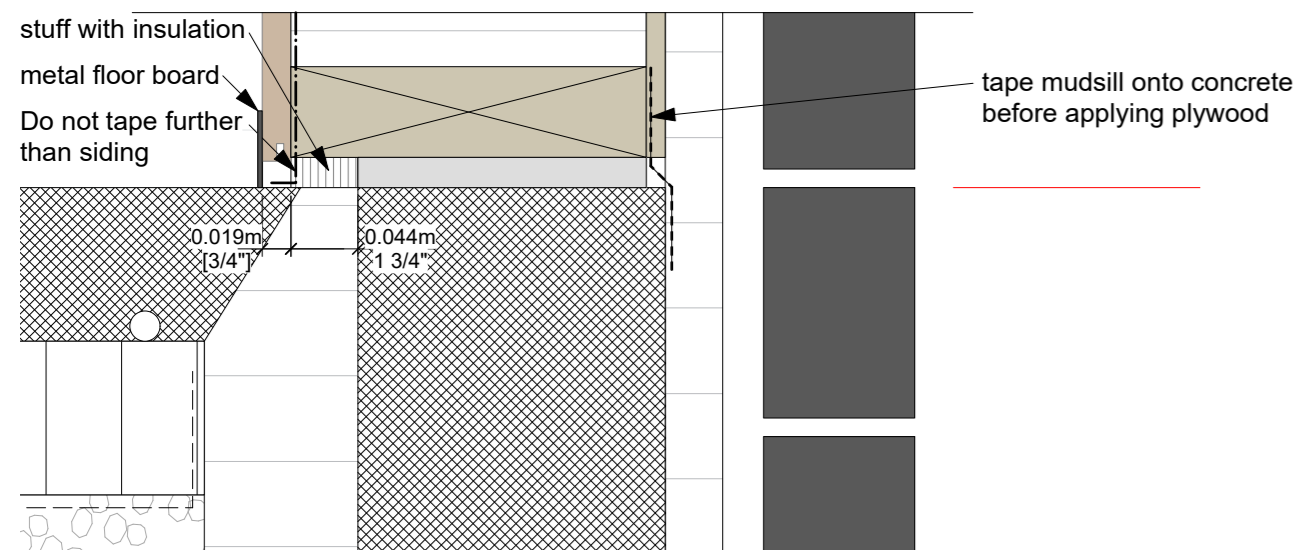
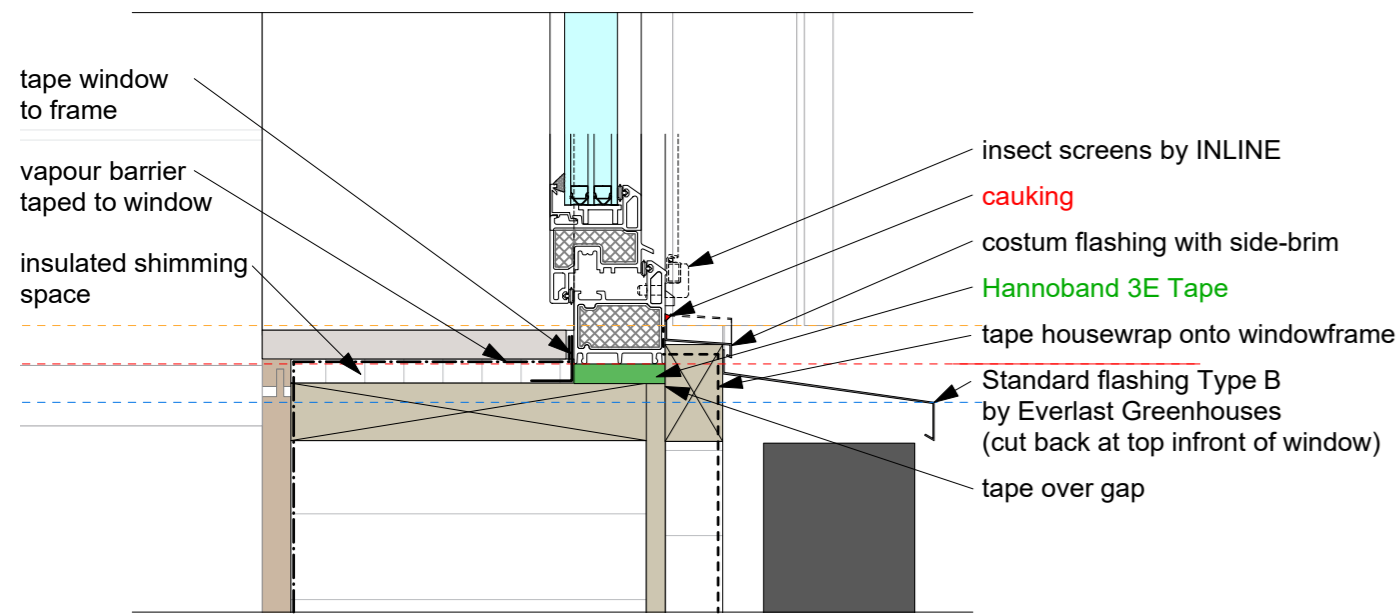
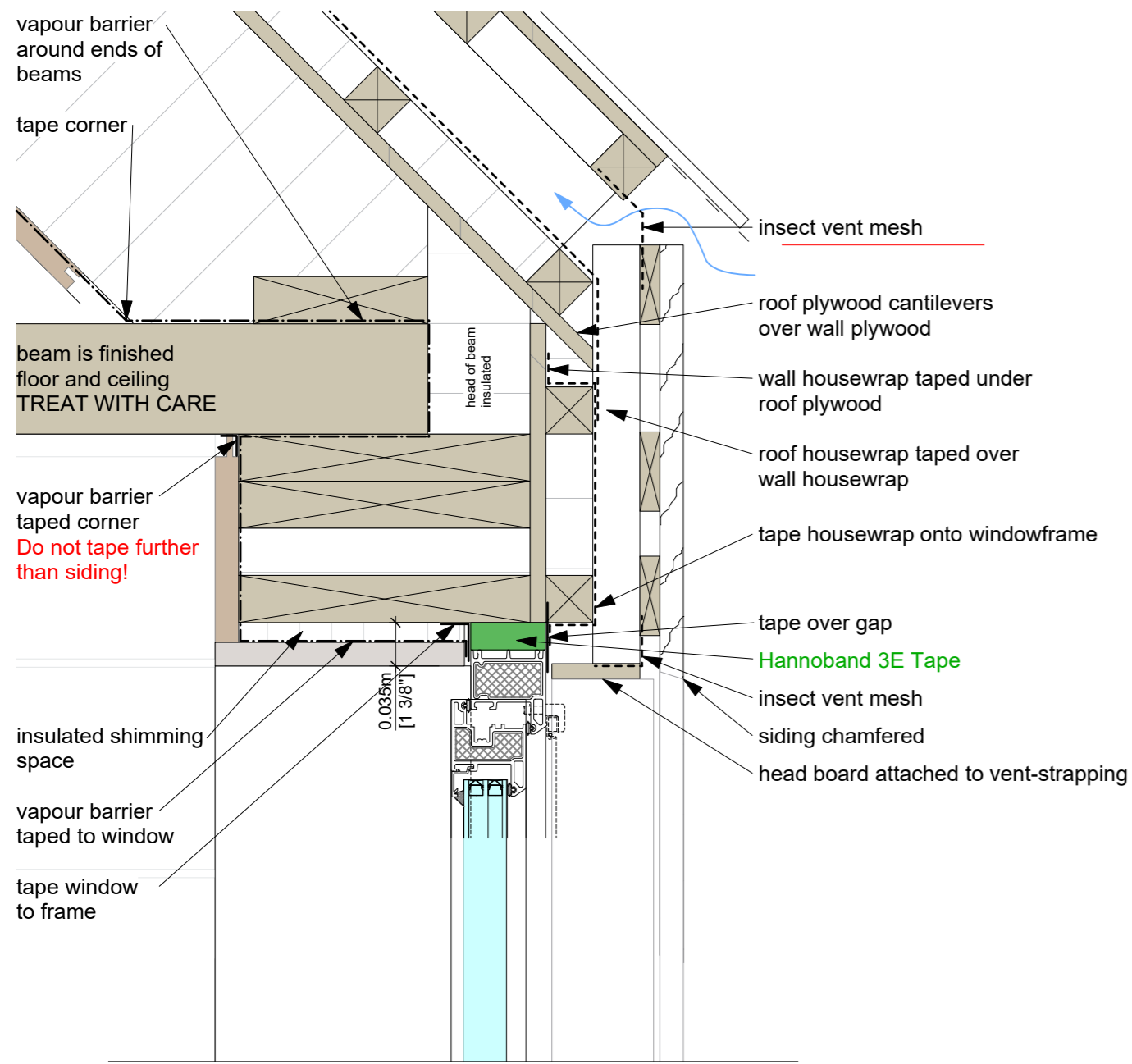
Detail Angle Irons
SCALE 1:5/20 - 2020/Apr/01

PHILIPP STÄHELI ARCHITEKT
KATHARINA-SULZER-PLATZ 2
CH-8400 WINTERTHUR
SWITZERLAND

BUILDING SITE
1203 BING TR, Algonquin Highlands
HINDON LAKE, HALIBURTON
ONTARIO, CANADA, K1M 1J2

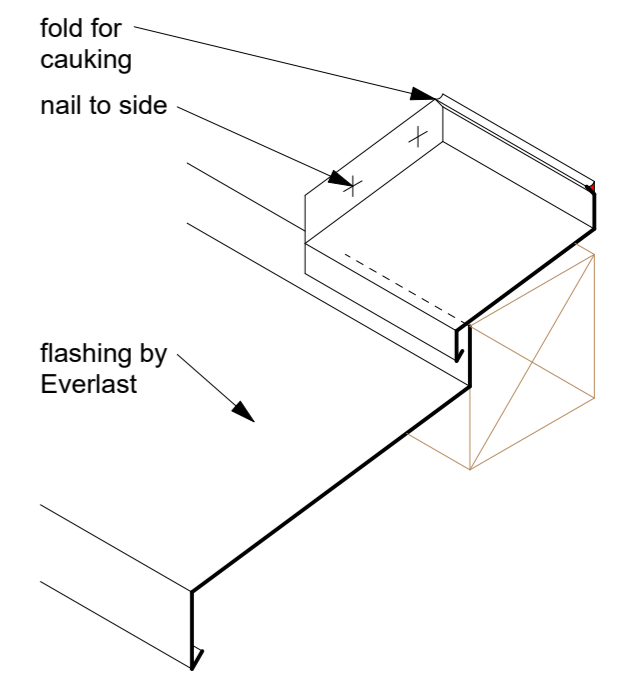
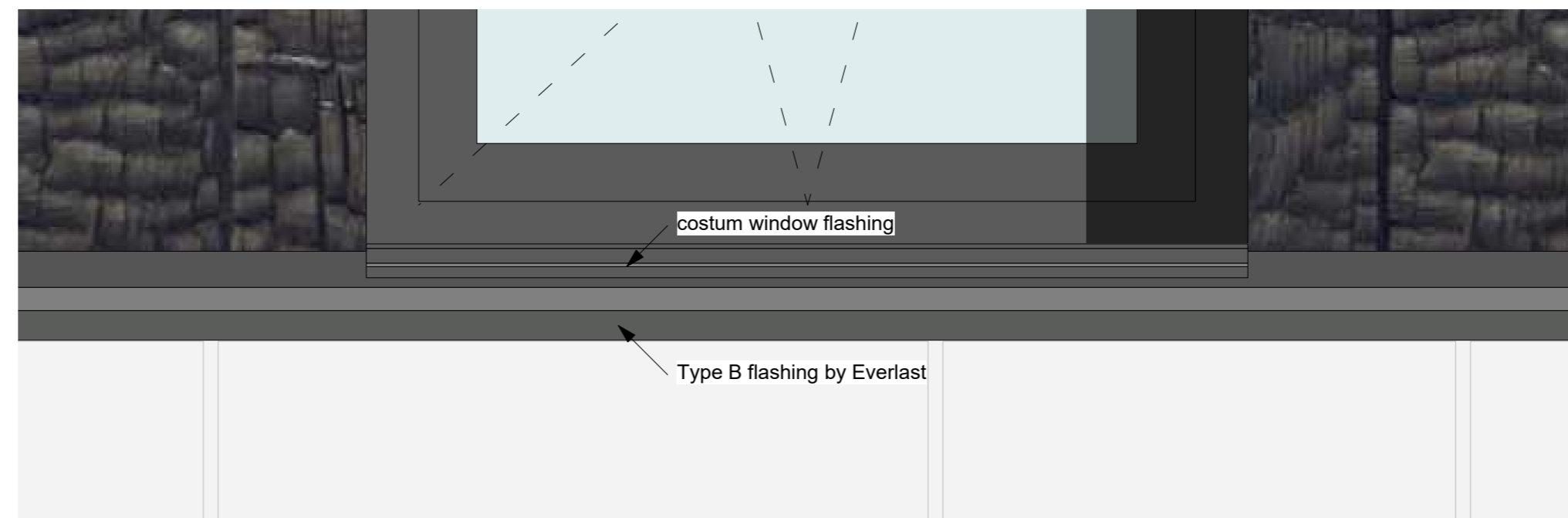
WINDOW SECTION DETAIL

1:5



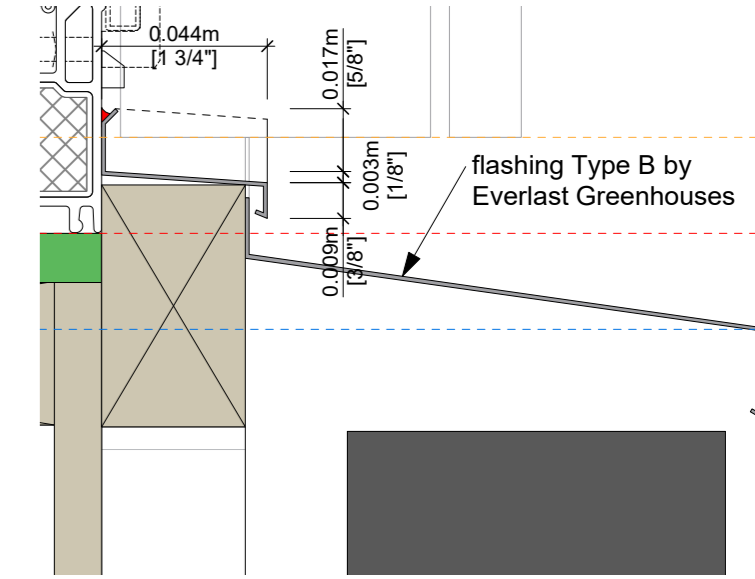
PLAN

1:5



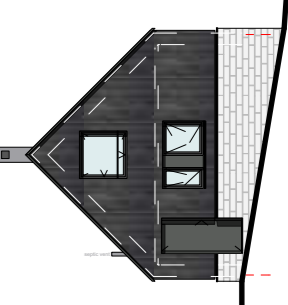
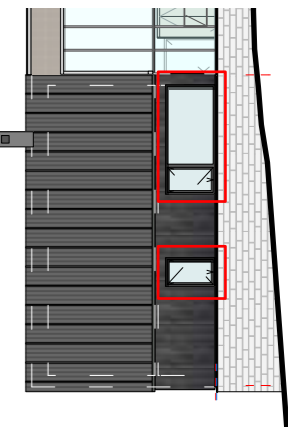
ISOMETRY WINDOW FLASHING

costum made



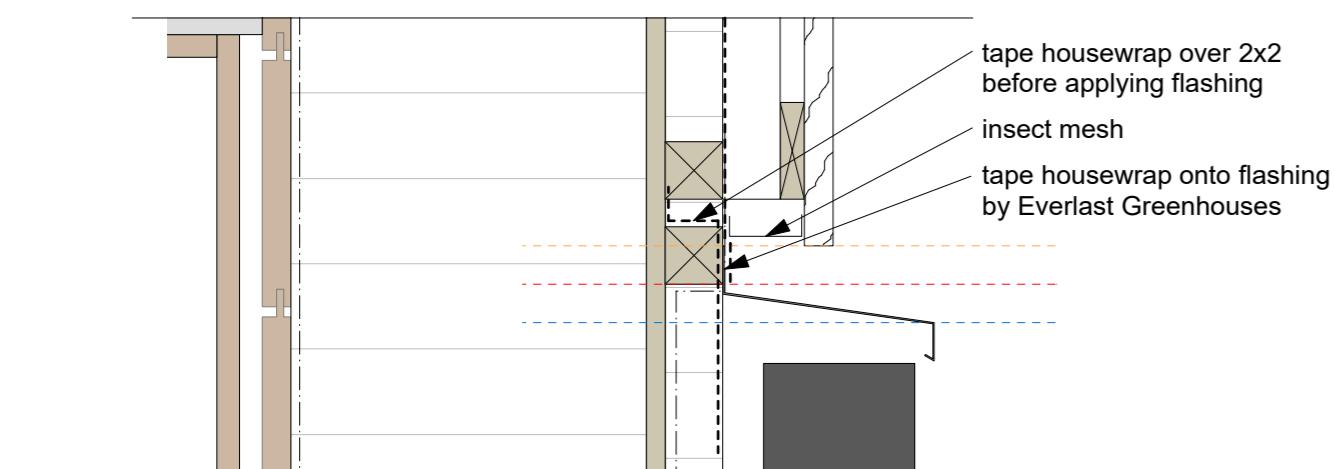
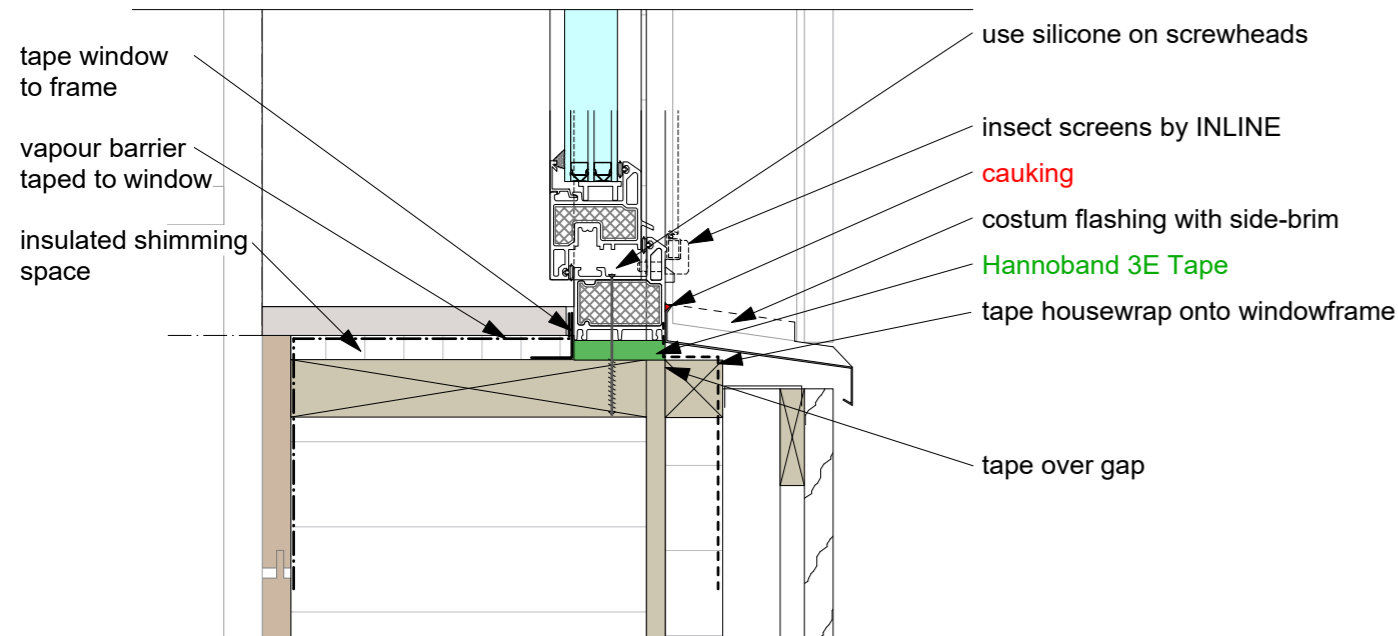
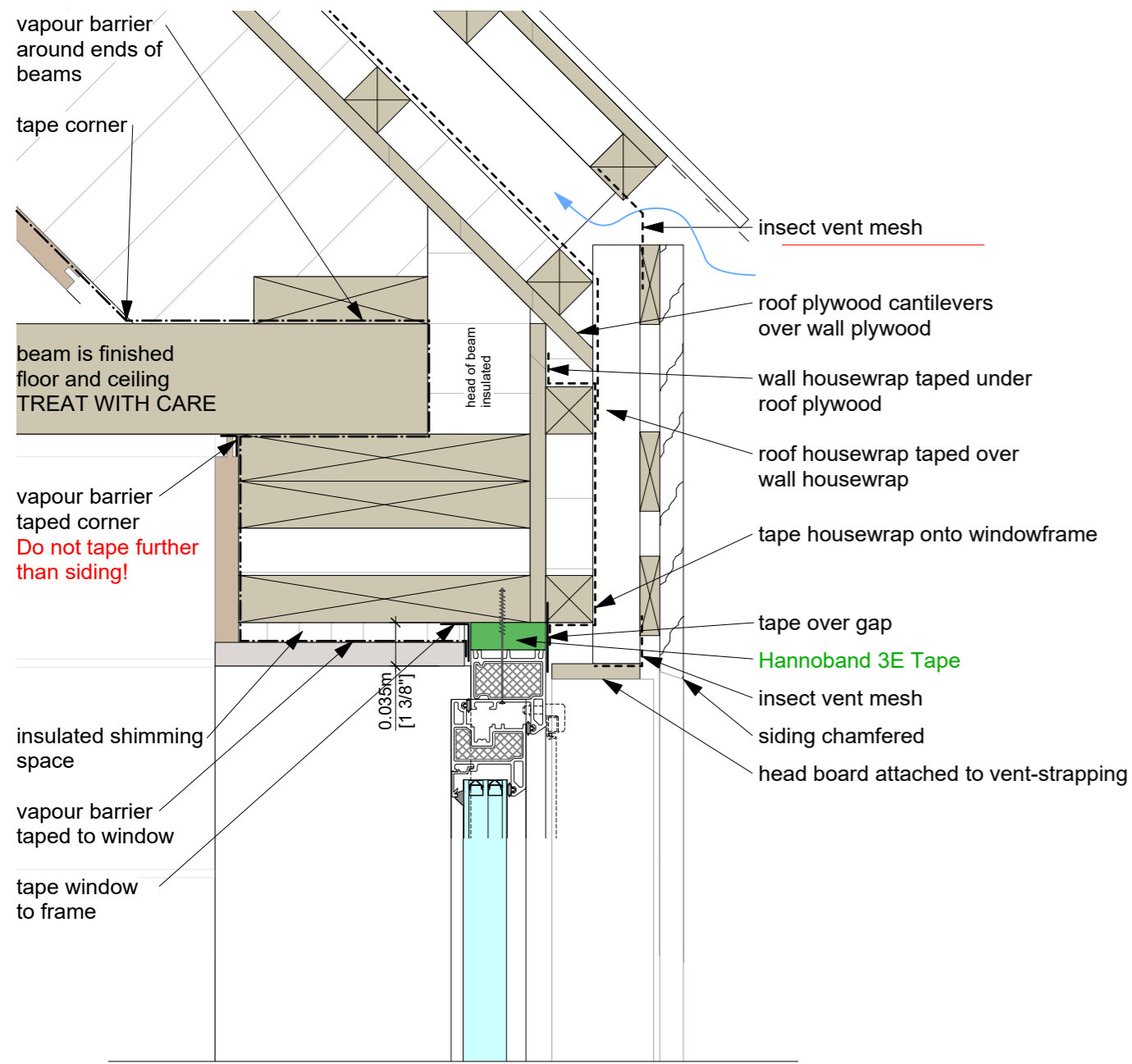
FLASHING

1:2

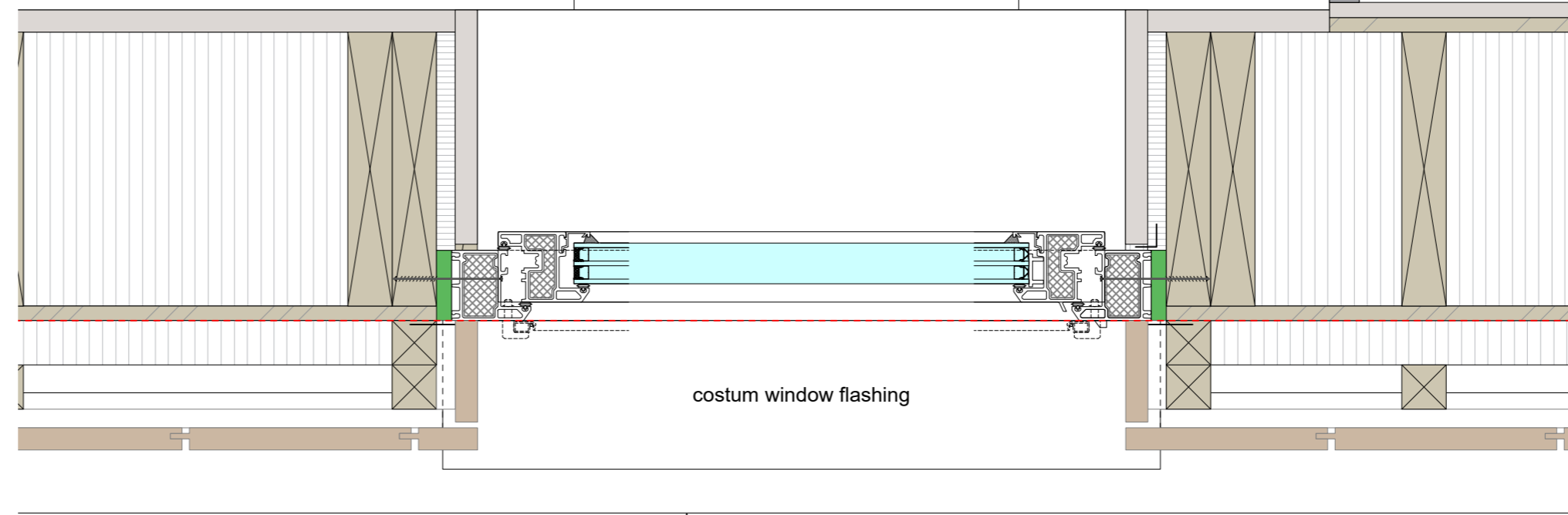


IMPORTANT

polished concrete floor is prone to staining. Do not tape vapour barrier more than 1/2" on slab. Otherwise not covered by interior siding.

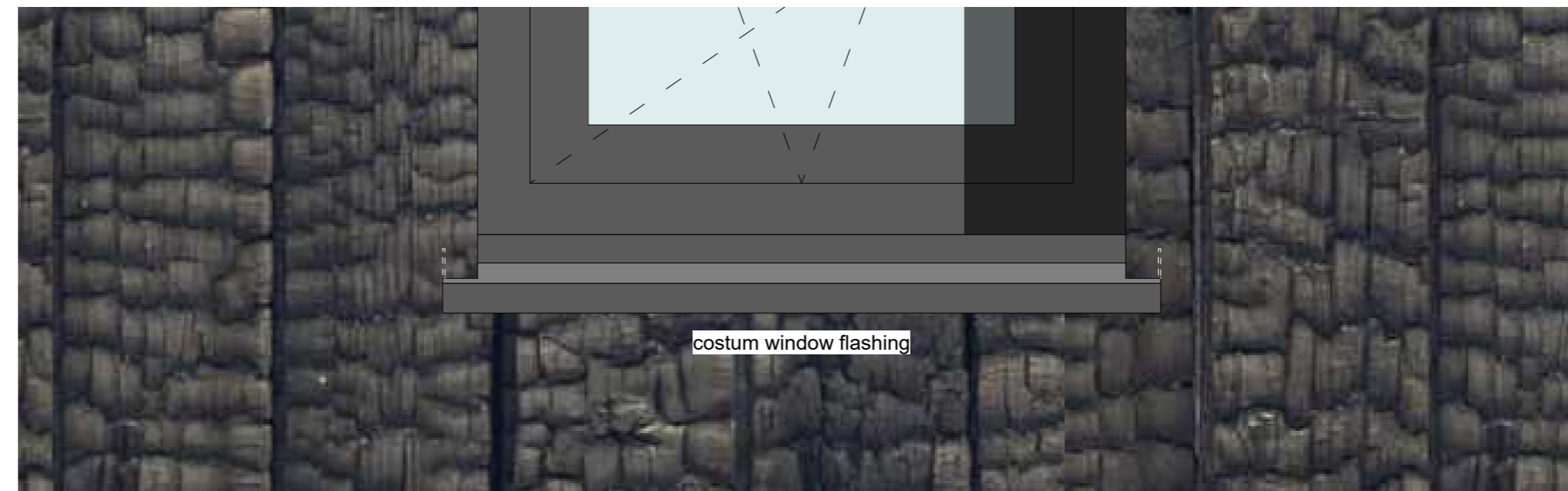


WINDOW SECTION DETAIL
 1:5

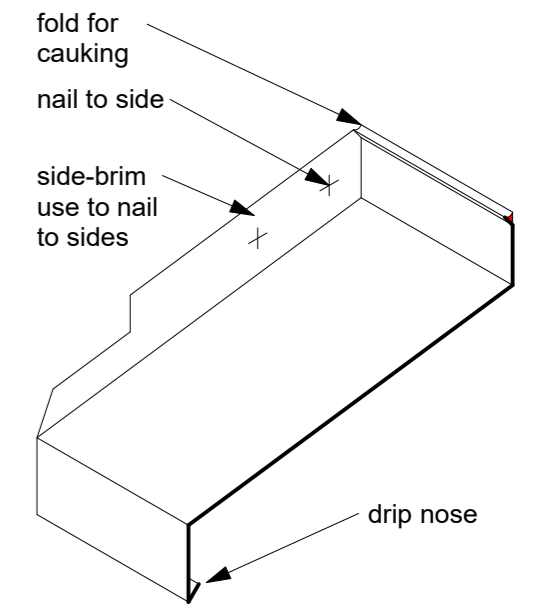


PLAN
 1:5

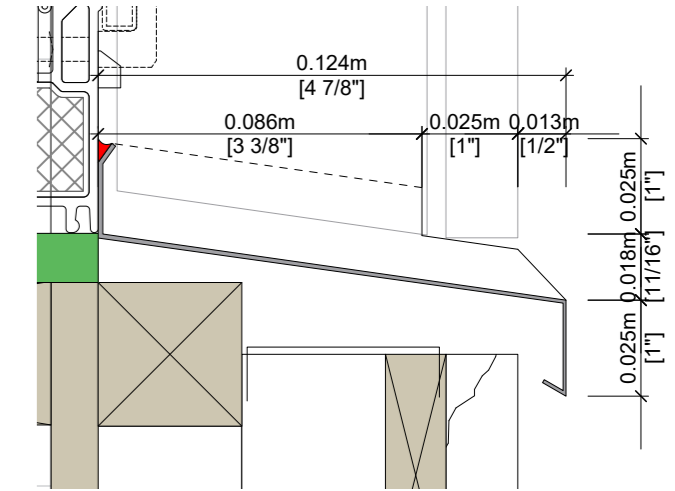
Type B flashing by Everlast Greenhouses



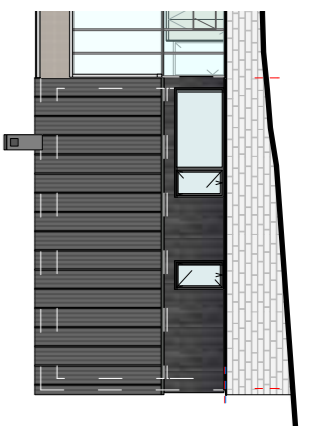
ELEVATION
 1:5



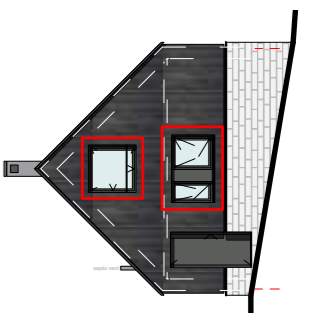
ISOMETRY WINDOW FLASHING
 costum made



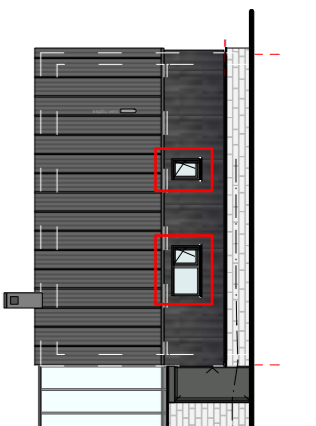
FLASHING
 1:2 - costum



SOUTH ELEVATION
 1:200



WEST ELEVATION
 1:200



NORTH ELEVATION
 1:200

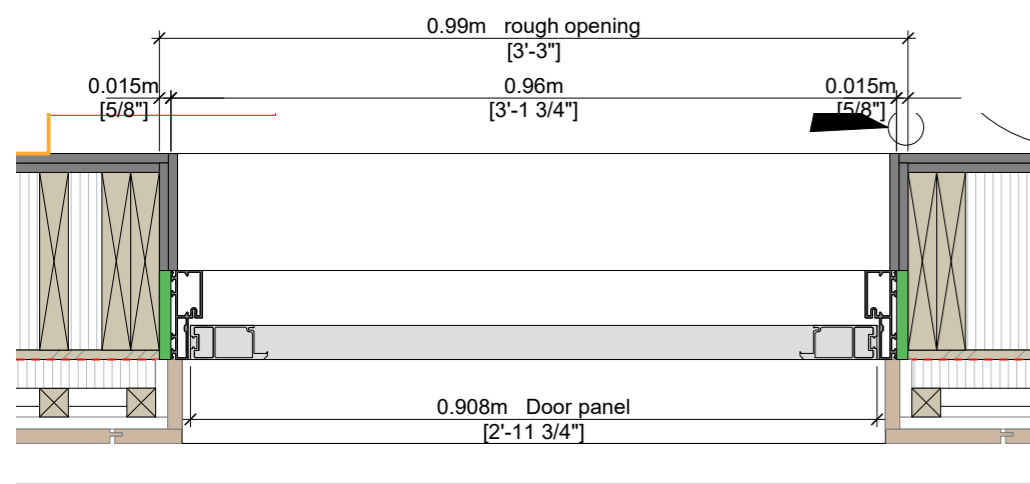
Paper size is A2 (594x420mm)

IMPORTANT
 polished concrete floor is prone to staining. Do not tape vapour barrier more than 1/2" on slab. Otherwise not covered by interior siding.

053.2 Detail INLINE windows
SCALE 1:5 - 2020/Apr/01

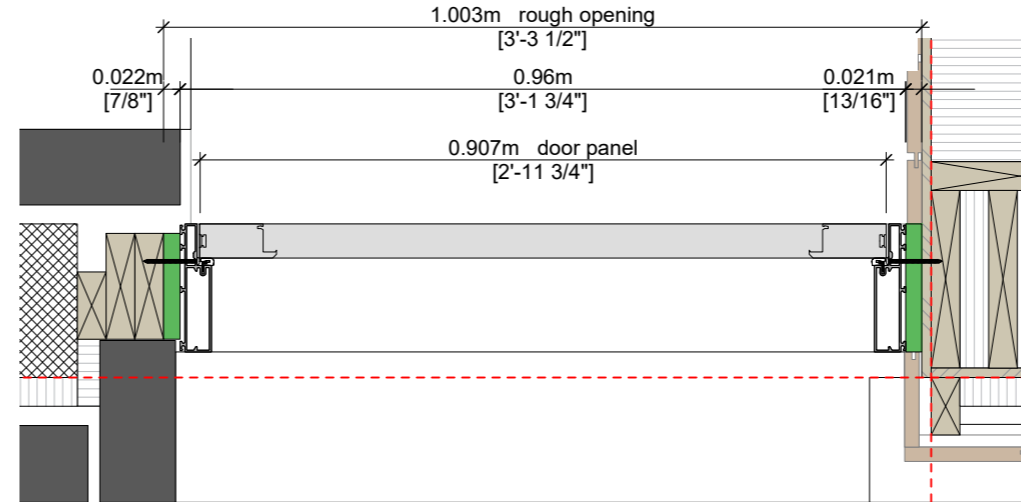
PHILIPP STÄHELI ARCHITEKT
 KATHARINA-SULZER-PLATZ 2
 CH-8400 WINTERTHUR
 SWITZERLAND

BUILDING SITE
 1203 BING TR, Algonquin Highlands
 HINDON LAKE, HALIBURTON
 ONTARIO, CANADA, K1M 1J2



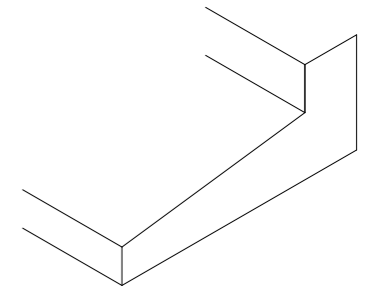
PLAN D1

1:10



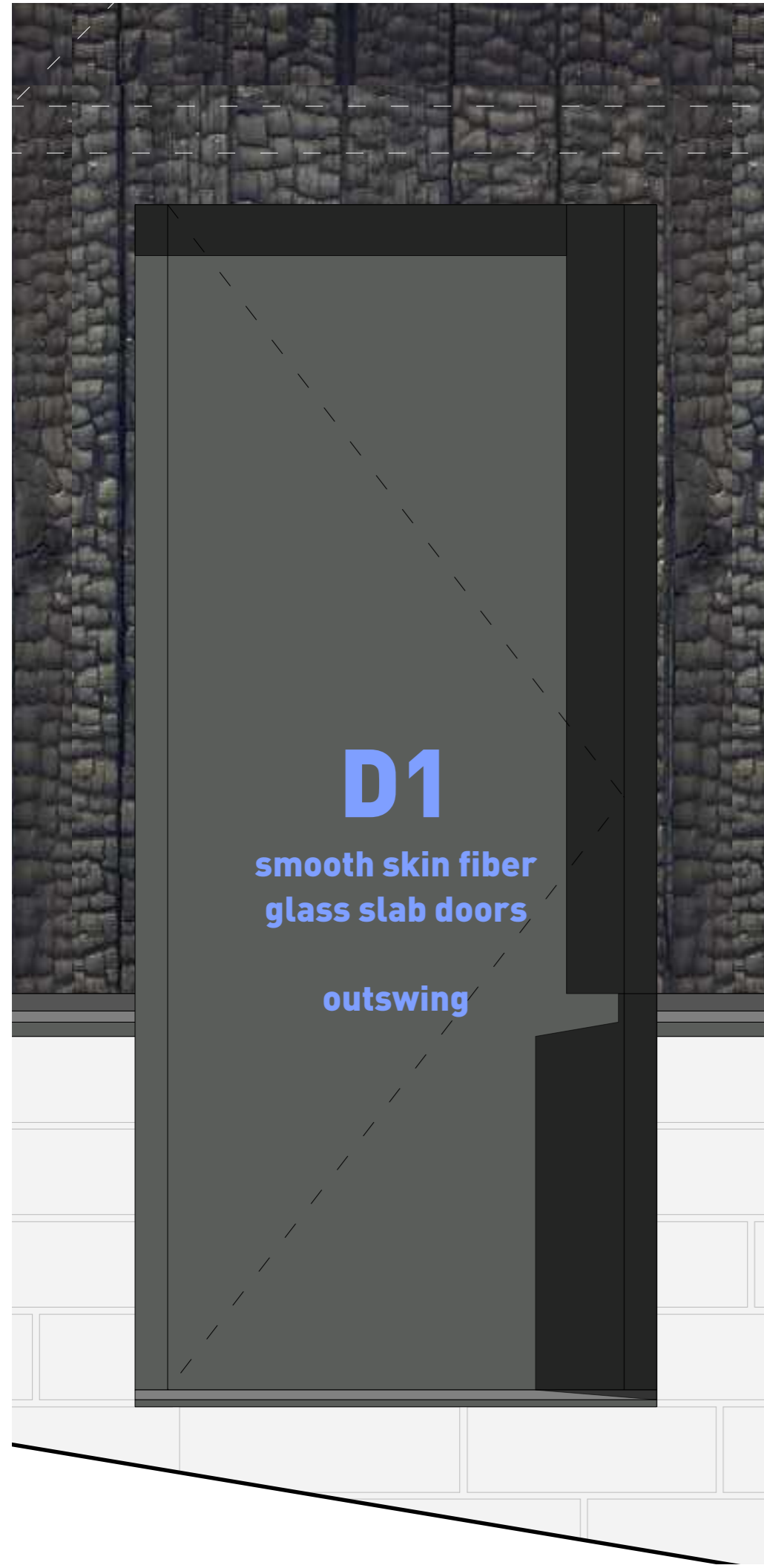
PLAN D2

1:10



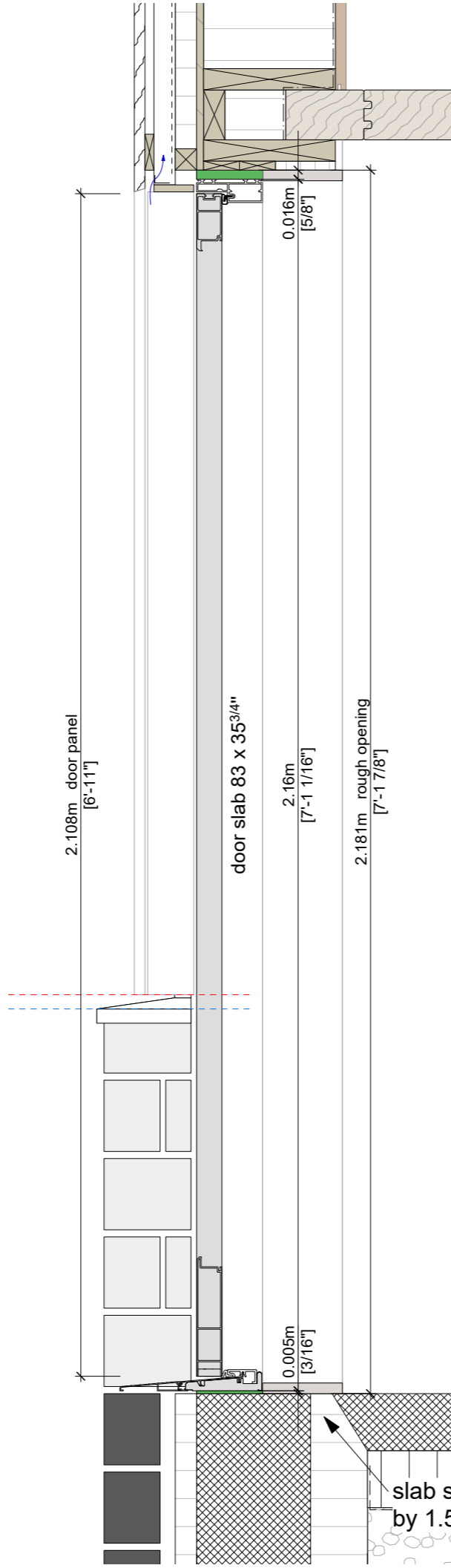
ISOMETRY END OF FLASHING

Everlast Greenhouses



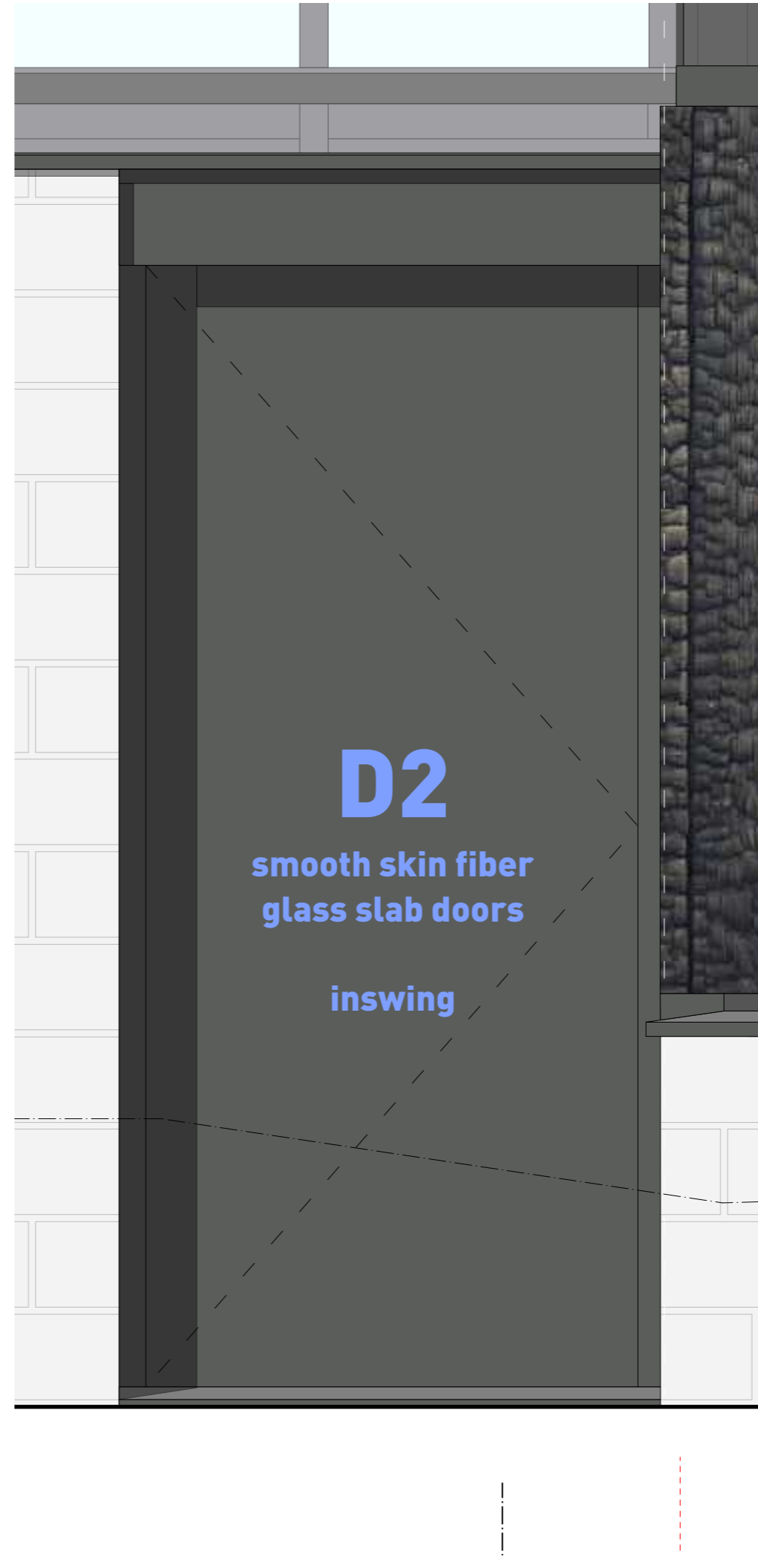
ELEVATION

1:10



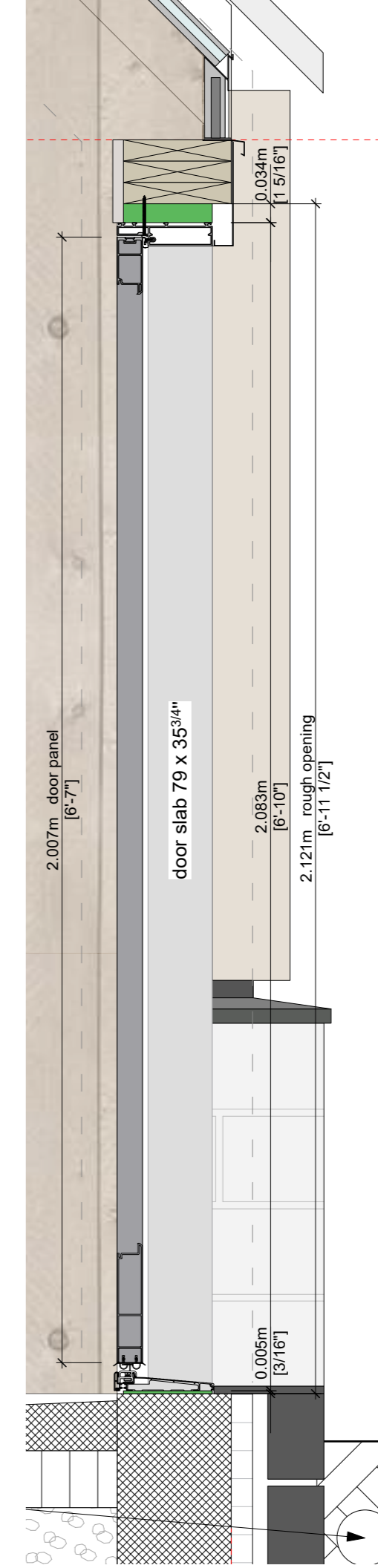
SECTION

1:10



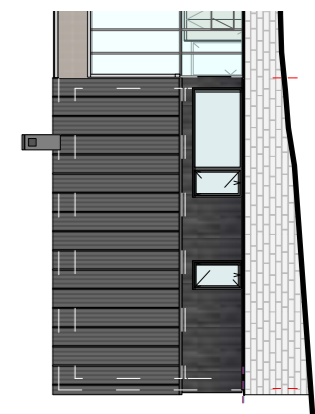
ELEVATION

1:10

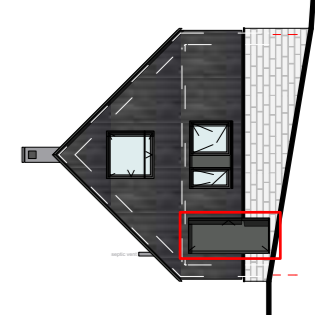


SECTION

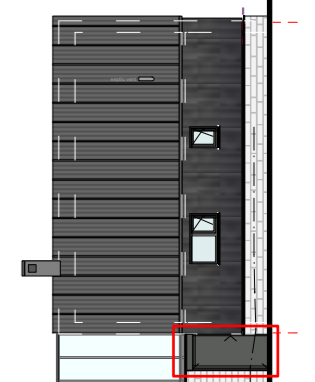
1:10



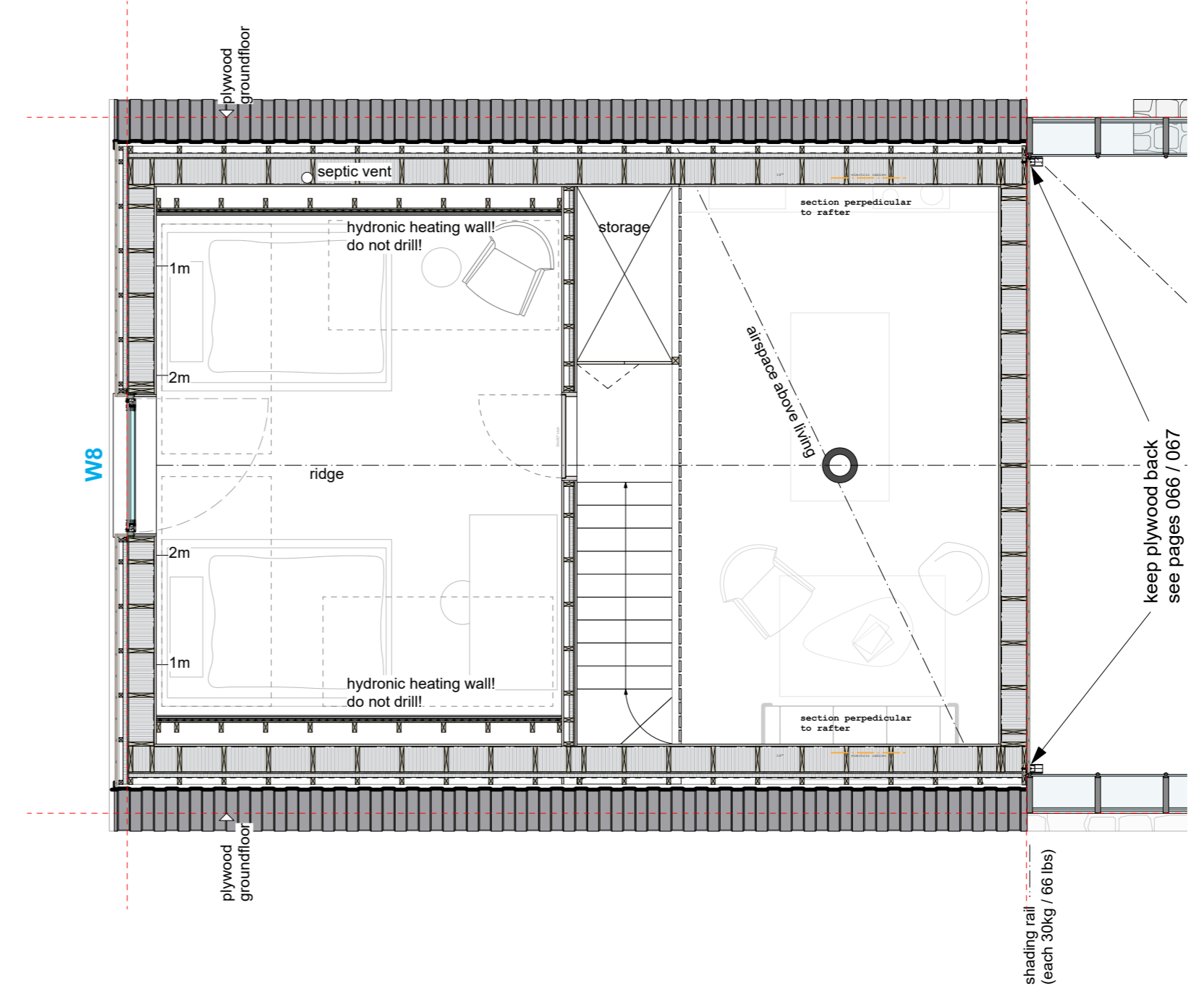
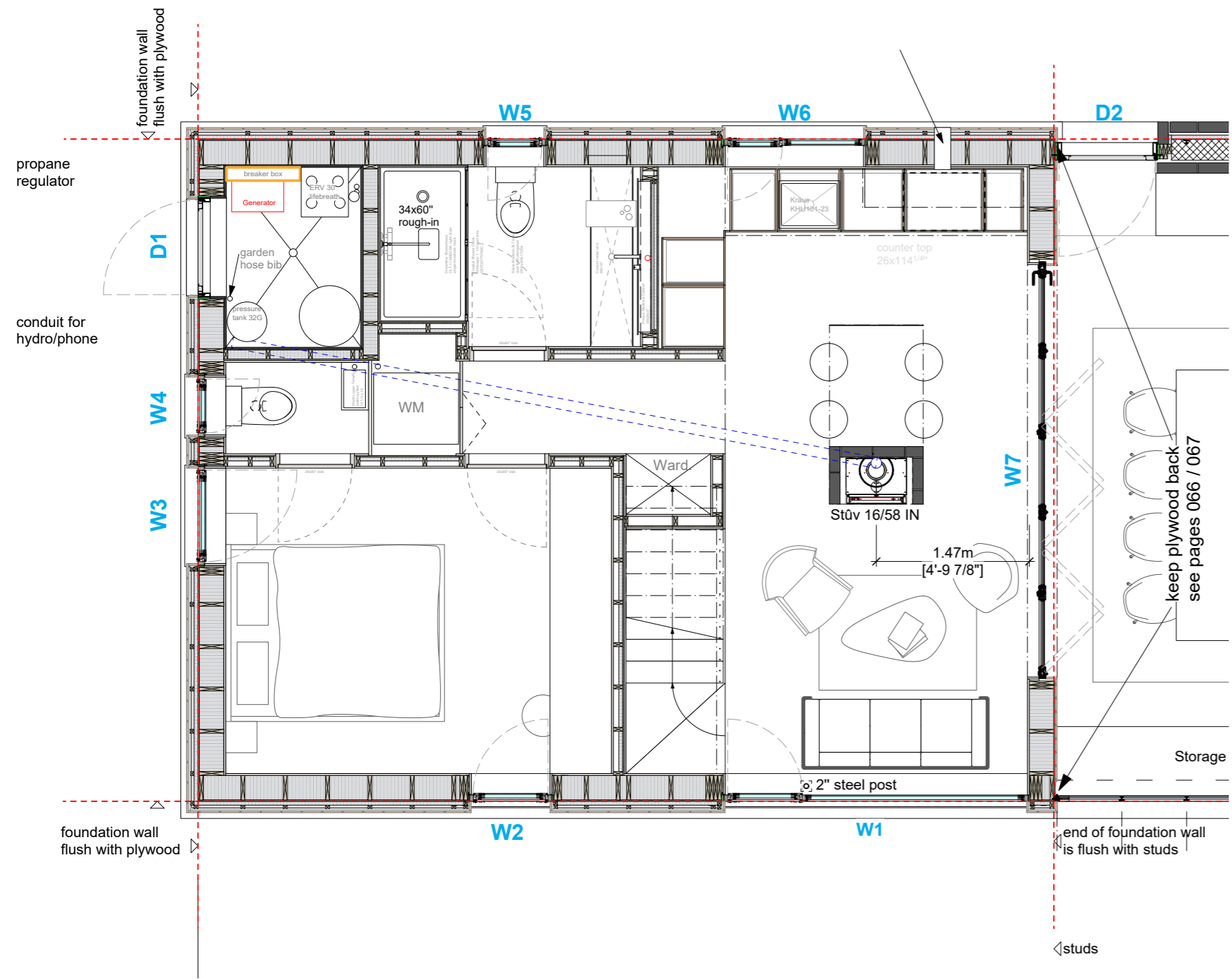
SOUTH ELEVATION
1:200



WEST ELEVATION
1:200

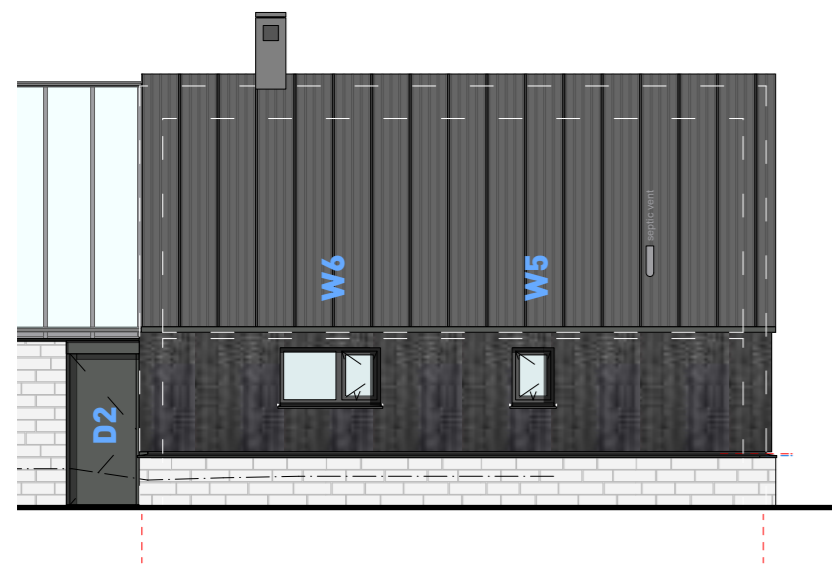


NORTH ELEVATION
1:200

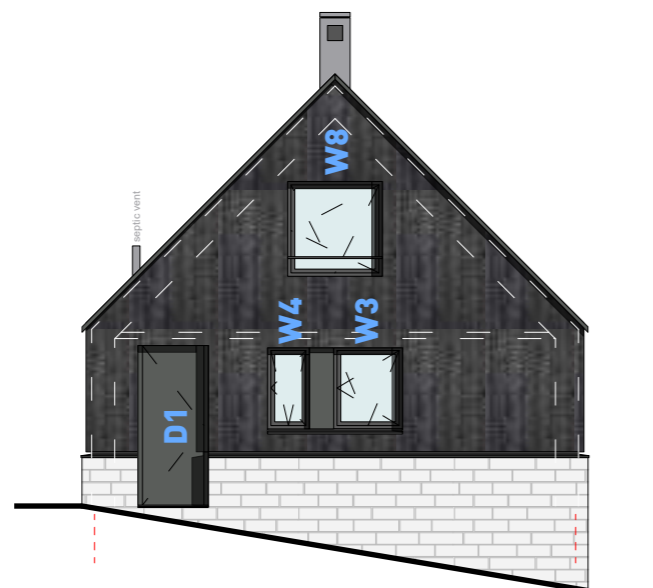


GROUND FLOOR
1:50

FIRST FLOOR
1:50



NORTH ELEVATION
1:100



WEST ELEVATION
1:100



SOUTH ELEVATION
1:100

List of windows

Name	width	height	type	hinge (seen outside)	fixed width
W1	2930mm	1350mm	tilt&turn + fixed	left	2160mm
W2	800mm	1350mm	tilt&turn	right	-
W3	960mm	1130mm	tilt&turn	left	-
W4	600mm	1130mm	tilt&turn	left	-
W5	600mm	790mm	tilt&turn	right	-
W6	1365mm	790mm	tilt&turn + fixed	right	790mm
W7	Nanawall Window				
W8	1300mm	1300mm	tilt&turn	left	-
D1	960mm	2160mm	outswing	right	for standard slab 83x35 ^{3/4}
D2	960mm	2083mm	inswing	right	for standard slab 79x35 ^{3/4}

Windows

Series 300 tilt and turn. Glass trippel IG 3, clear, argon, superspacer. supply only. custom tricorn black, interior and exterior. **ALL windows and D2 with screens** Delivery to adress bottom right, by at least end of July. Advise at least 48h before delivery.

Doors

Series 4500 according to page 053.3. Hardware: 4-BZ-11-LT smooth skin fiber glass slab door, no glass, same colour as windows.

Paper size is A2 (594x420mm)

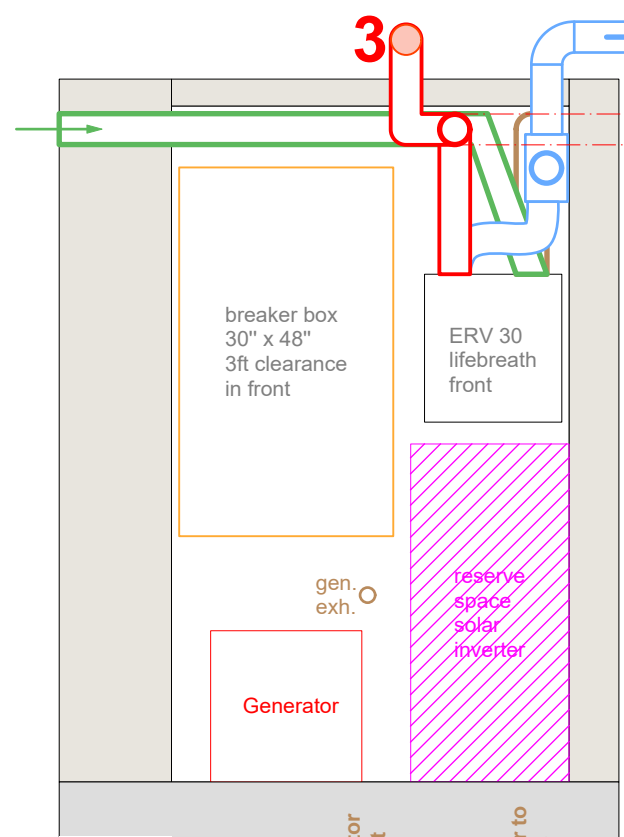
IMPORTANT
polished concrete floor is prone to staining. Do not tape vapour barrier more than 1/2" on slab. Otherwise not covered by interior siding.



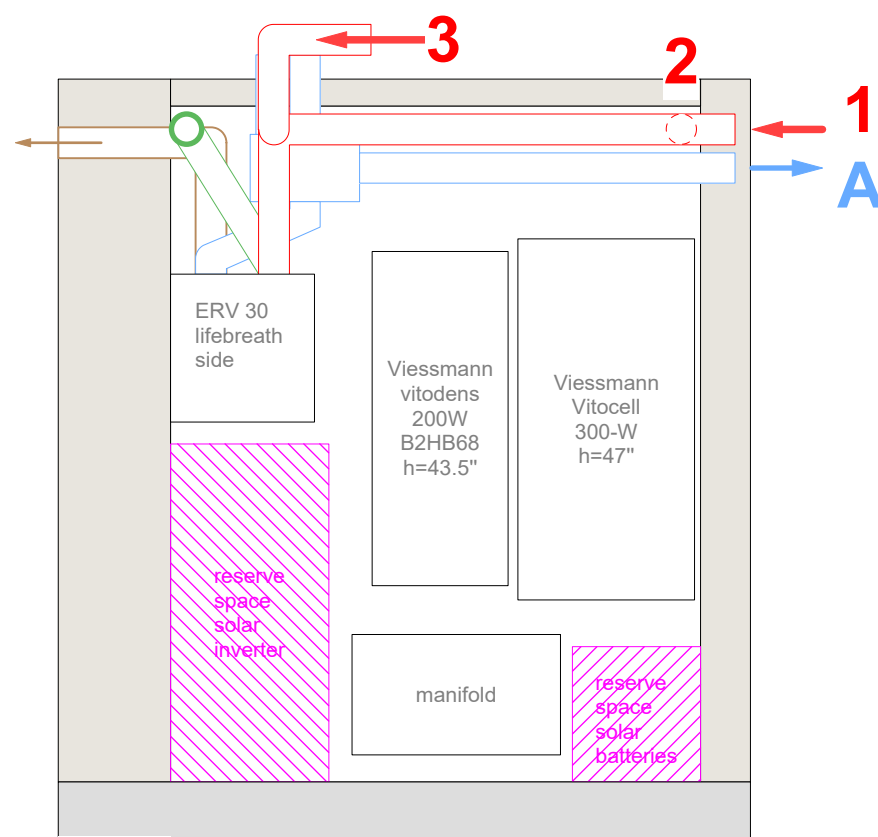
053.5 List of windows
2020/Apr/01

PHILIPP STÄHELI ARCHITEKT
KATHARINA-SULZER-PLATZ 2
CH-8400 WINTERTHUR
SWITZERLAND

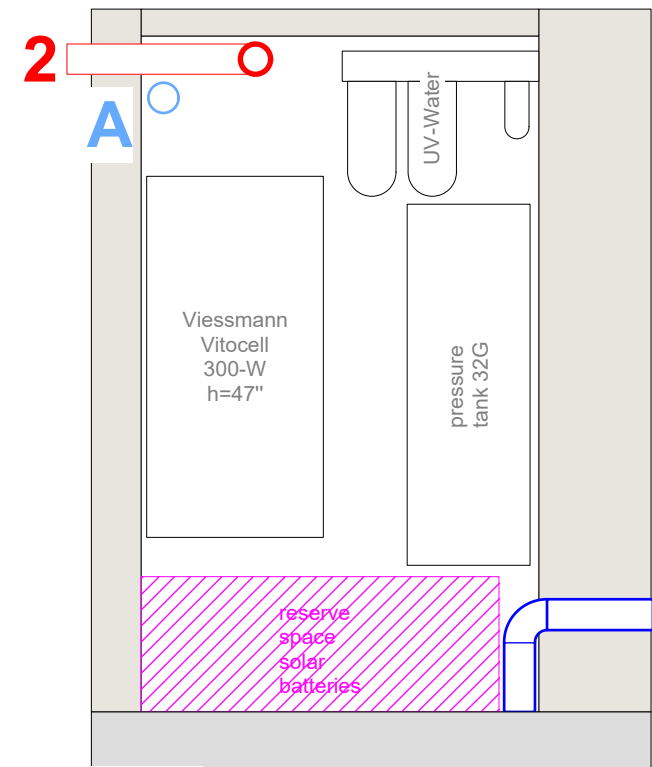
BUILDING SITE
1203 BING TR, Algonquin Highlands
HINDON LAKE, HALIBURTON
ONTARIO, CANADA, K1M 1J2



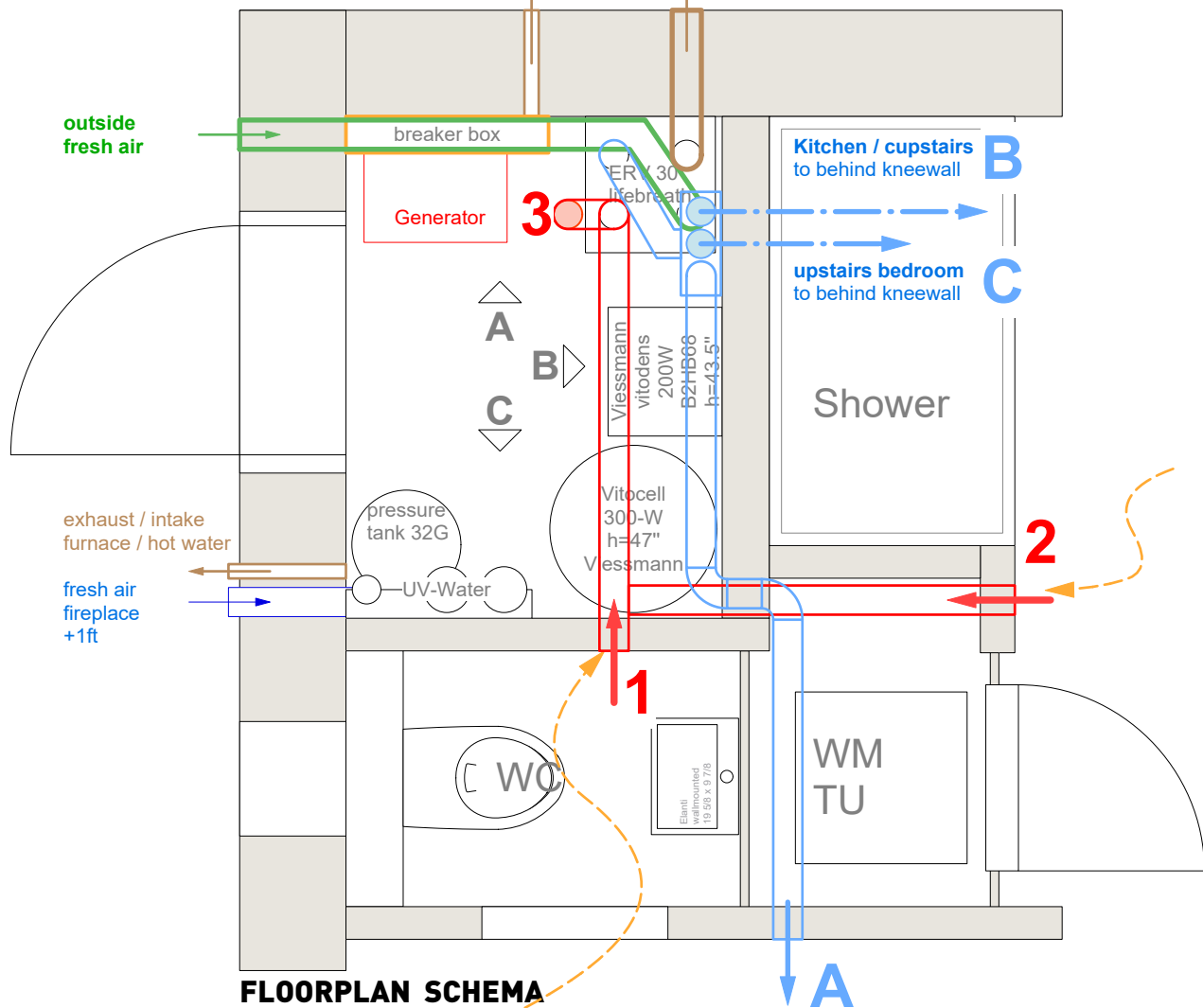
VIEW A



VIEW B

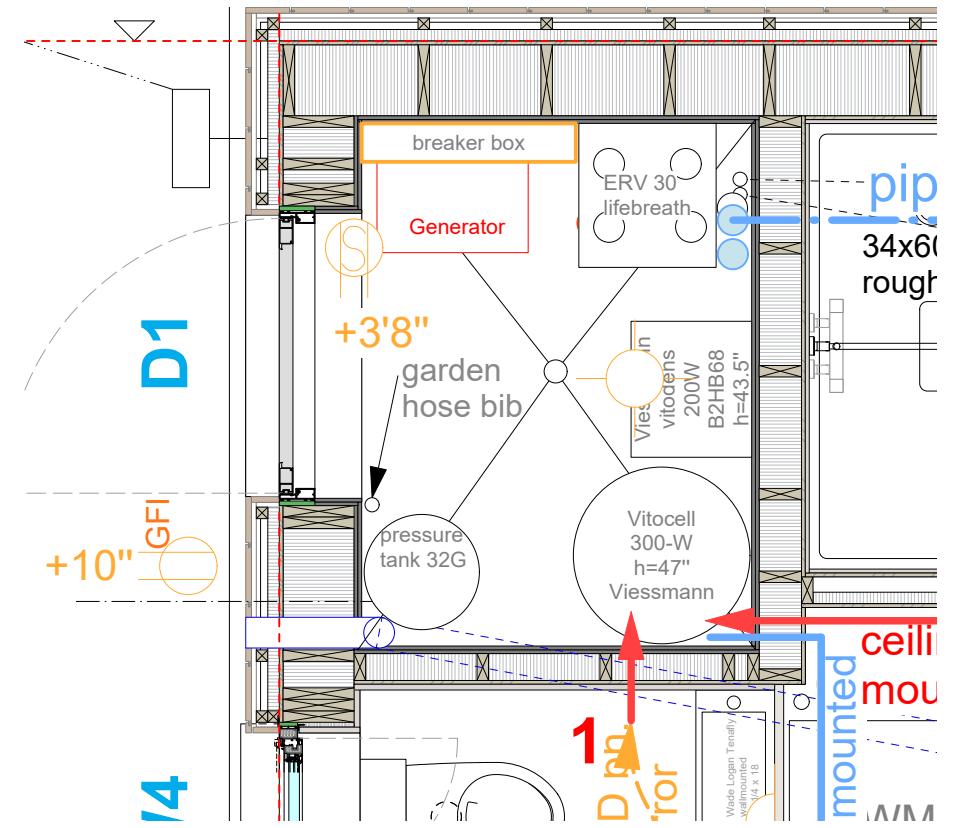


VIEW C

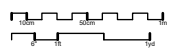


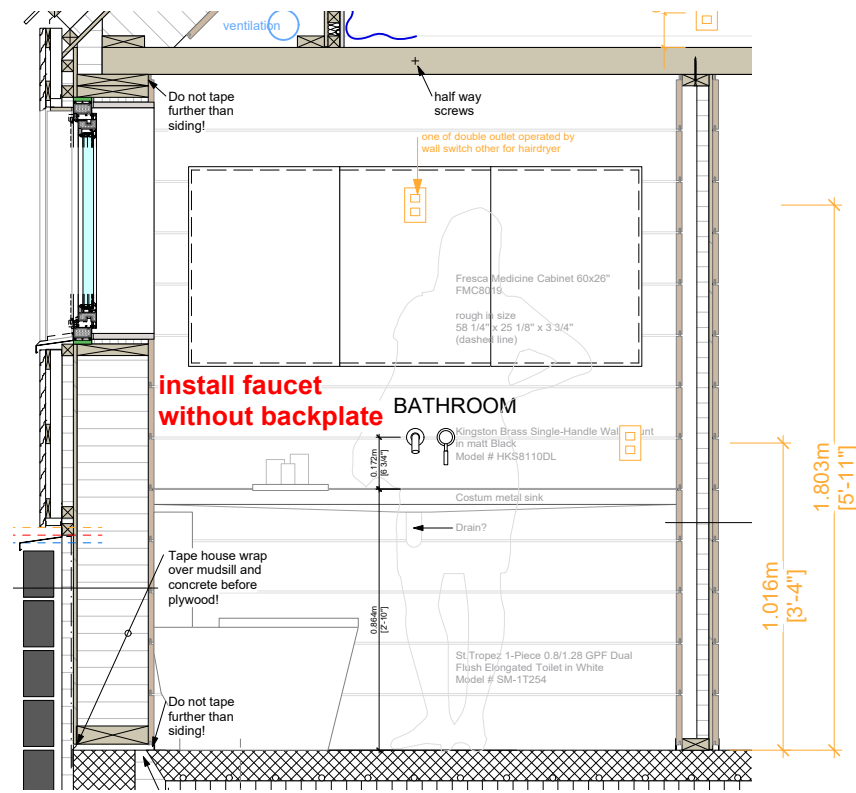
FLOORPLAN SCHEMA

FIRE PROOFING
 2 layers of 1/2" FlamePro fire retardant treated plywood
 -> all walls and 1 layer on ceiling
 overlapping joints on flat surface and corners
 use fireproof insulation in interior partitioning walls. fibreglass or stone wool

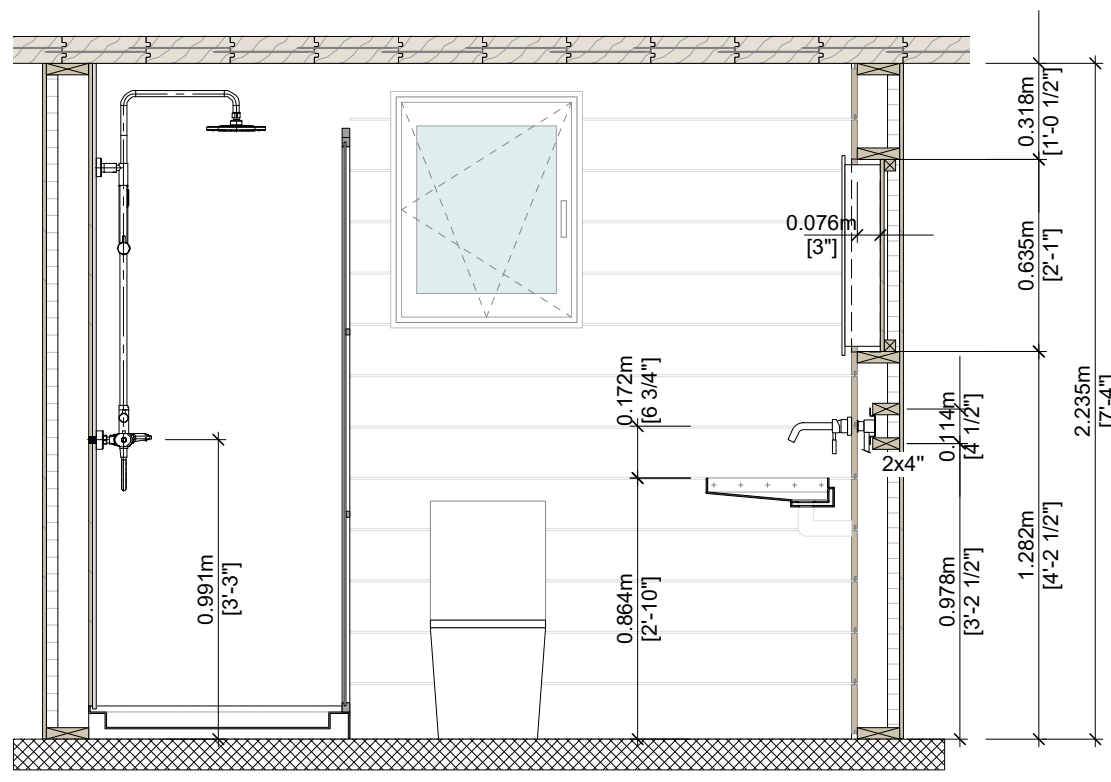


FLOORPLAN CONSTRUCTION

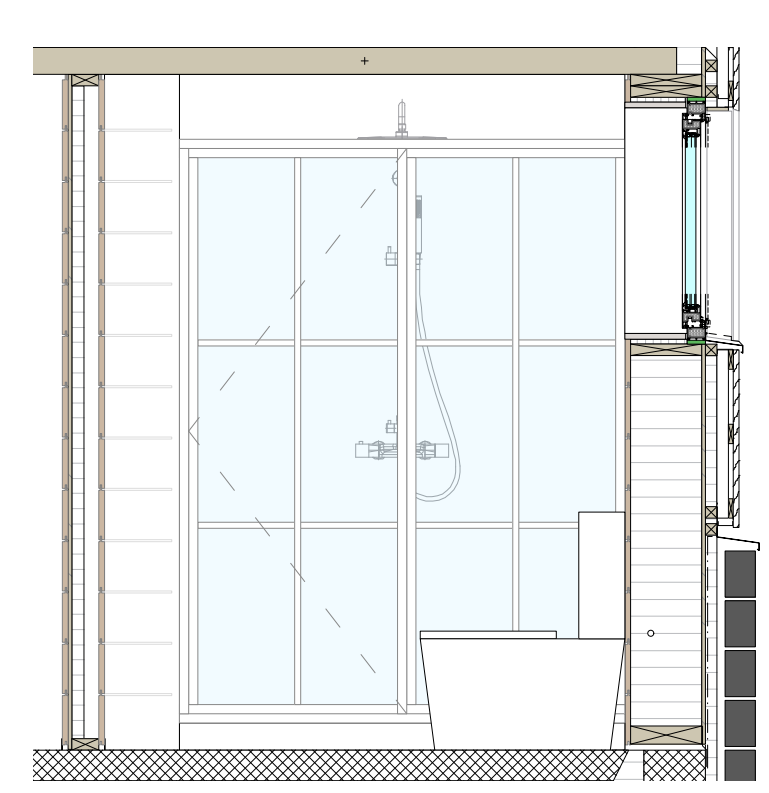




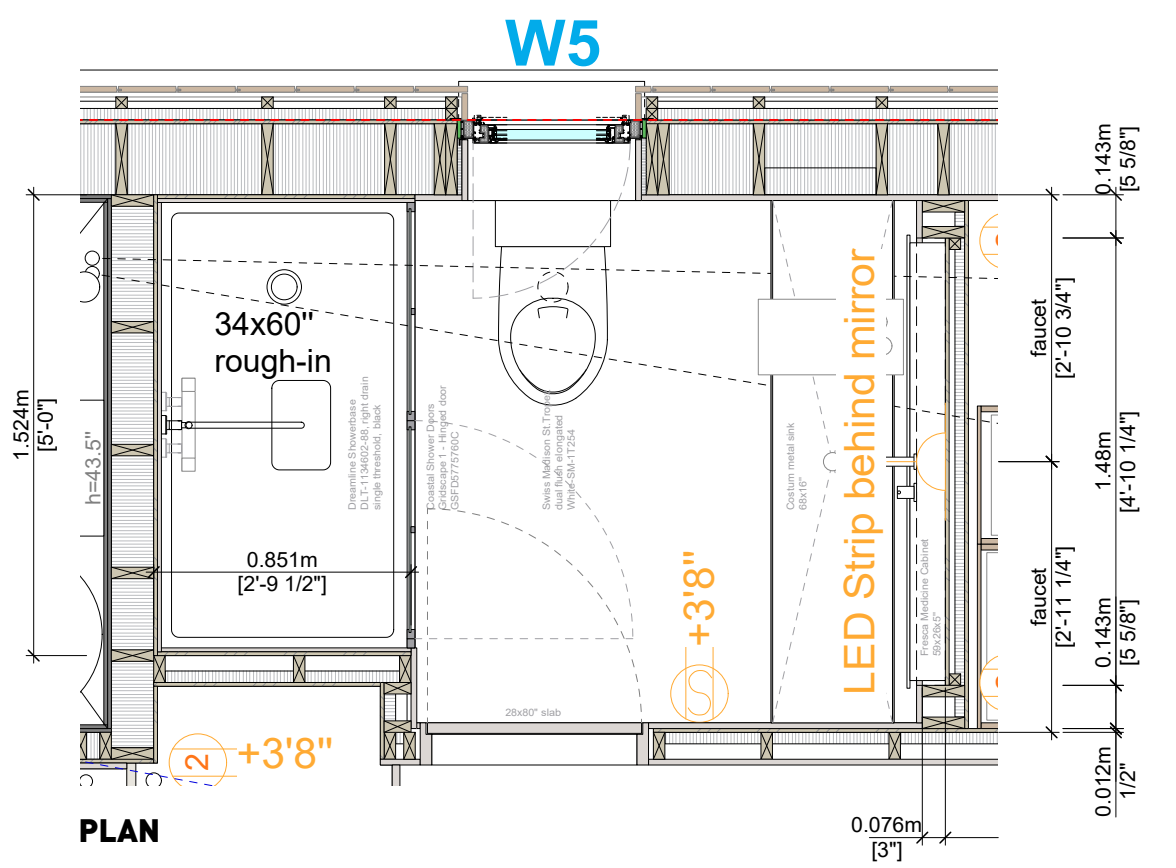
CROSS SECTION
facing east



LONGITUDINAL SECTION



CROSS SECTION
facing west



PLAN

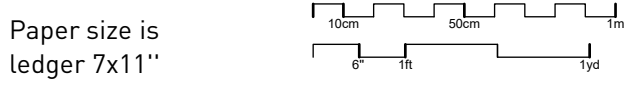
CONCRETE FLOOR AND WOOD CEILING ARE FINISHED SURFACES. DO NOT DRILL, DO NOT TAPE!



RENDERINGS
for illustration only

IMPORTANT
polished concrete floor is prone to staining.
Do not tape vapour barrier more than 1/2" on slab. Otherwise not covered by interior siding.

- CHANGE LOG**
- 2020 APRIL 01
 - costum sink
 - medicine cabinet recessed
 - shower wall
 - 2020 SEP 03
 - faucet model
 - height of faucet / sink



See www.psar.ch/hindon for a 360° walk-through.

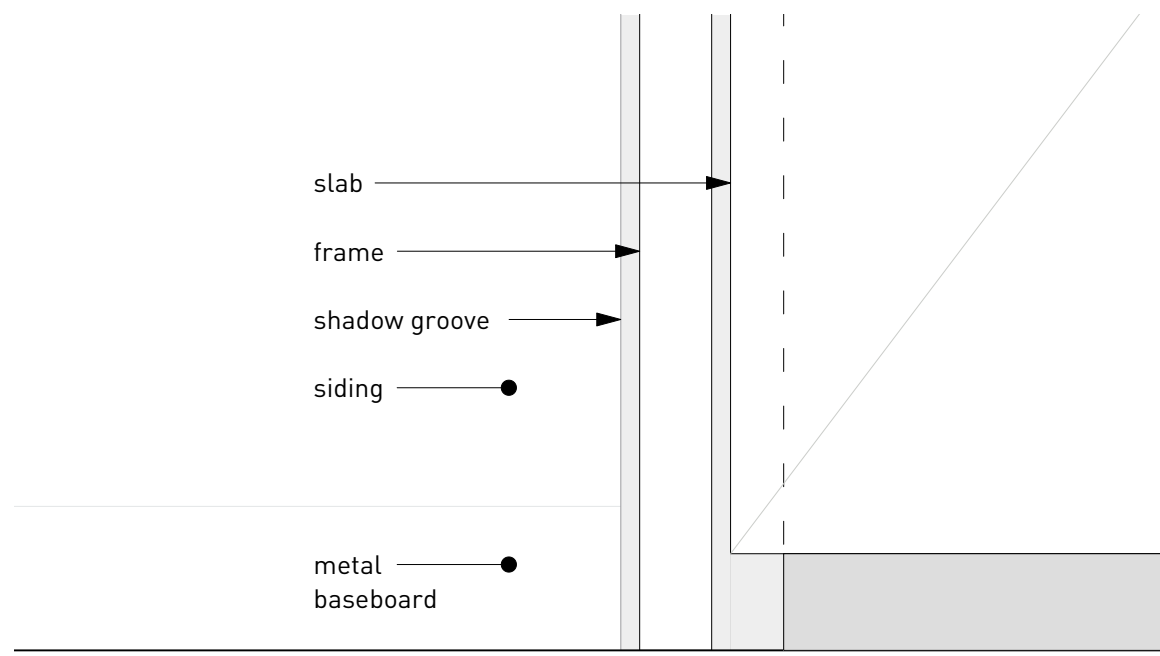
055

BATHROOM DETAIL HOUSE
SCALE 1:25 - 2020/Sep/03

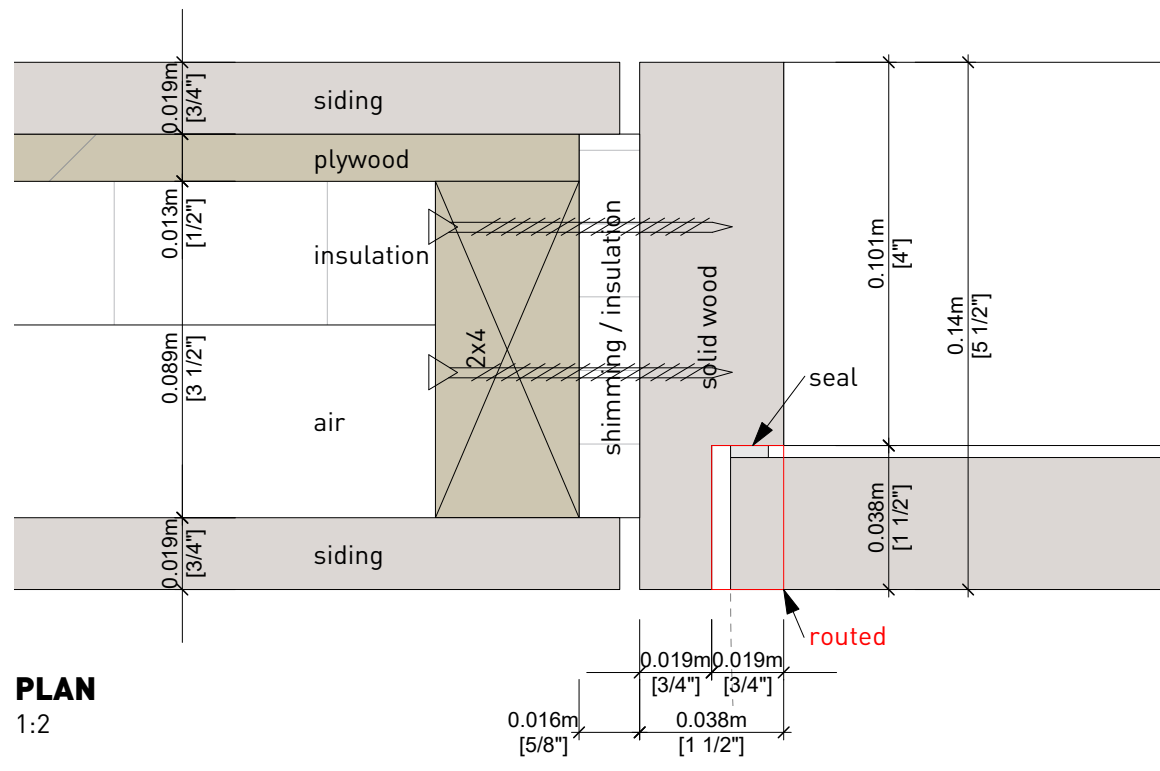
PHILIPP STÄHELI ARCHITEKT
KATHARINA-SULZER-PLATZ 2
CH-8400 WINTERTHUR
SWITZERLAND

BUILDING SITE
1203 BING TR, LOT 3, PLAN 19M6
HINDON LAKE, HALIBURTON
ONTARIO, CANADA

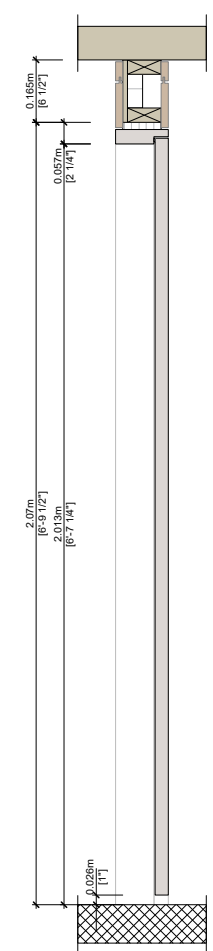
slab
 frame
 shadow groove
 siding
 metal
 baseboard



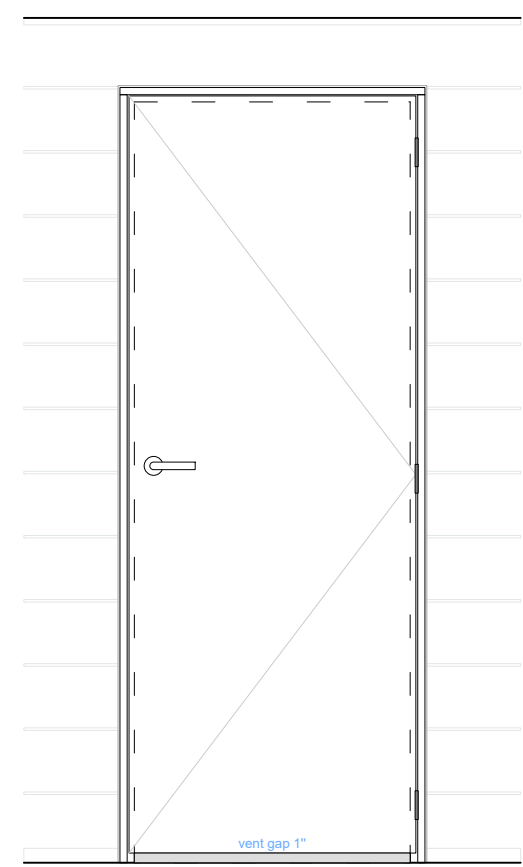
INTERIOR VIEW
1:2



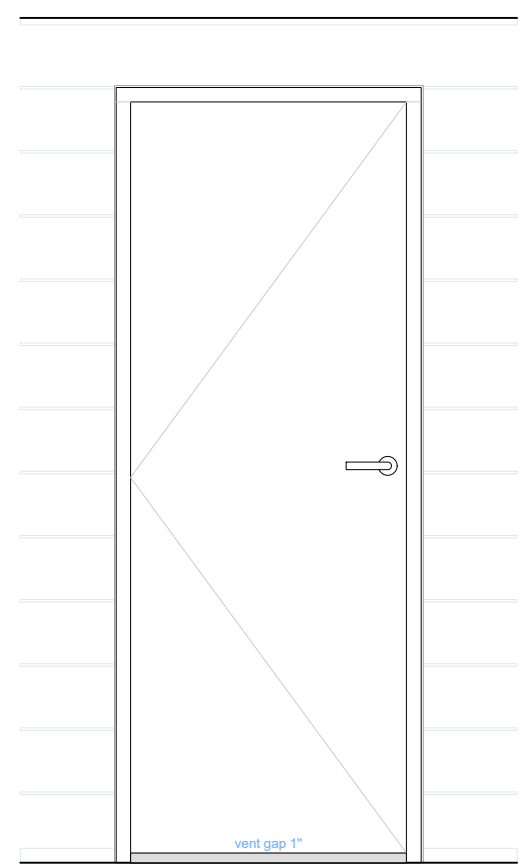
PLAN
1:2



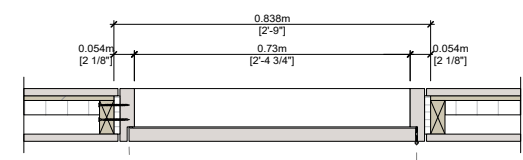
SECTION
1:20



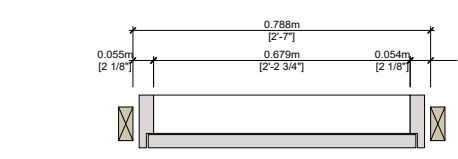
INTERIOR VIEW



EXTERIOR VIEW



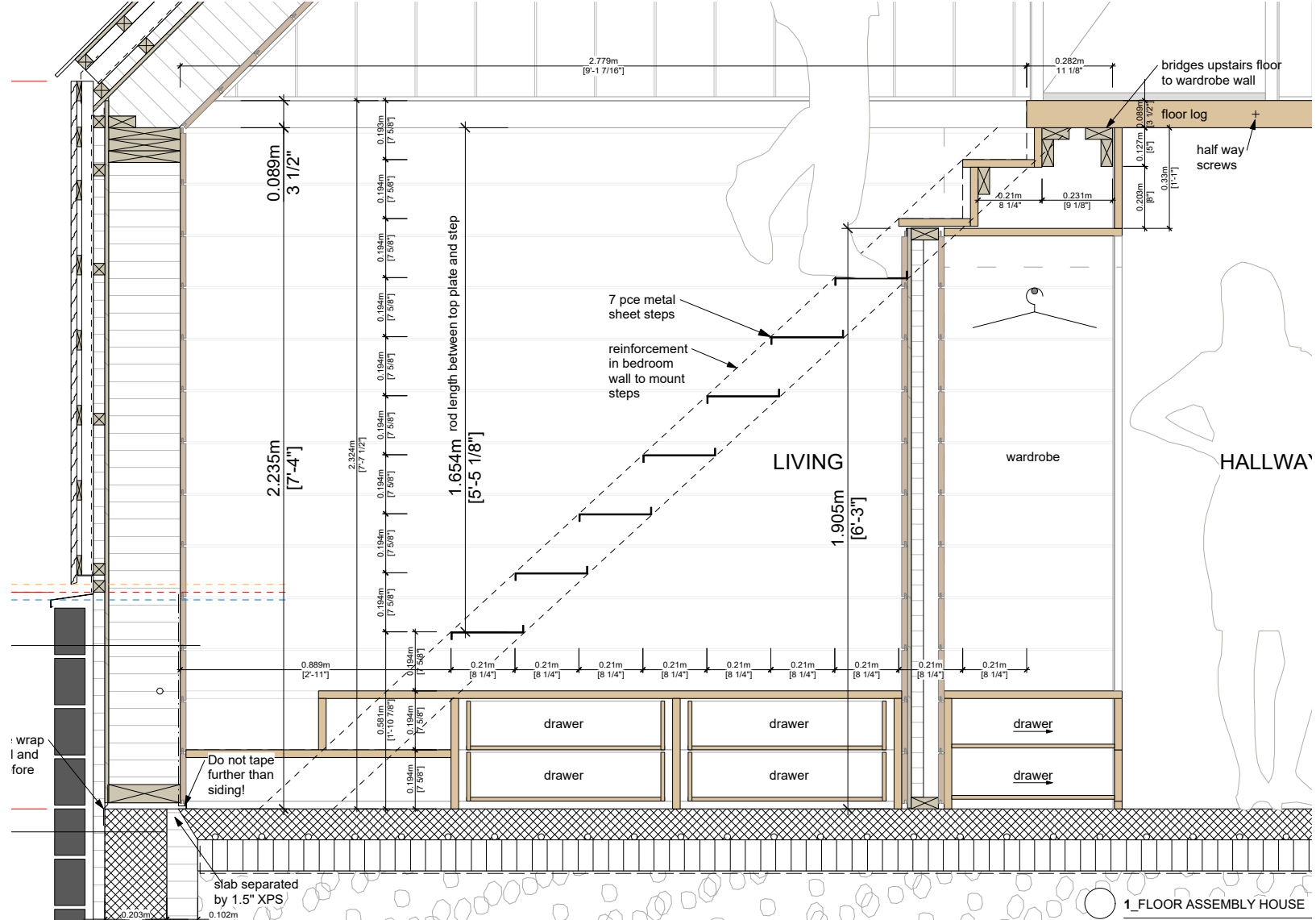
PLAN
1:20



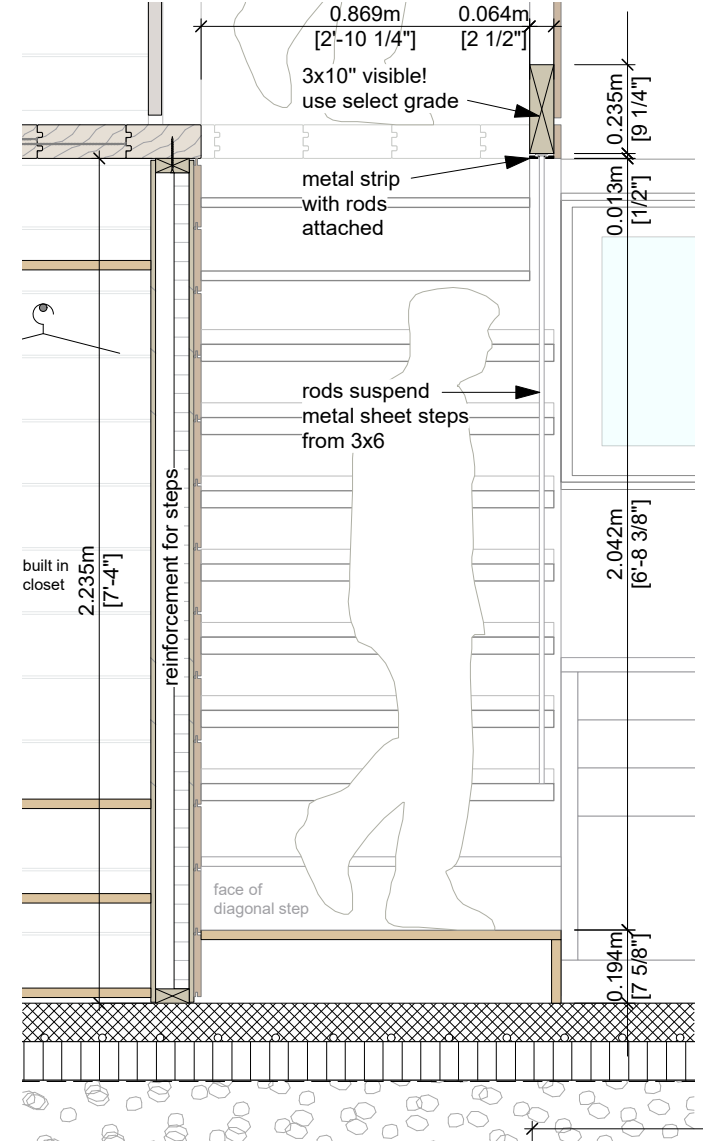
RENDER
for illustration only



CONCRETE FLOOR AND WOOD CEILING ARE FINISHED SURFACES. DO NOT DRILL, DO NOT TAPE!



SECTION F2-E2
1:20

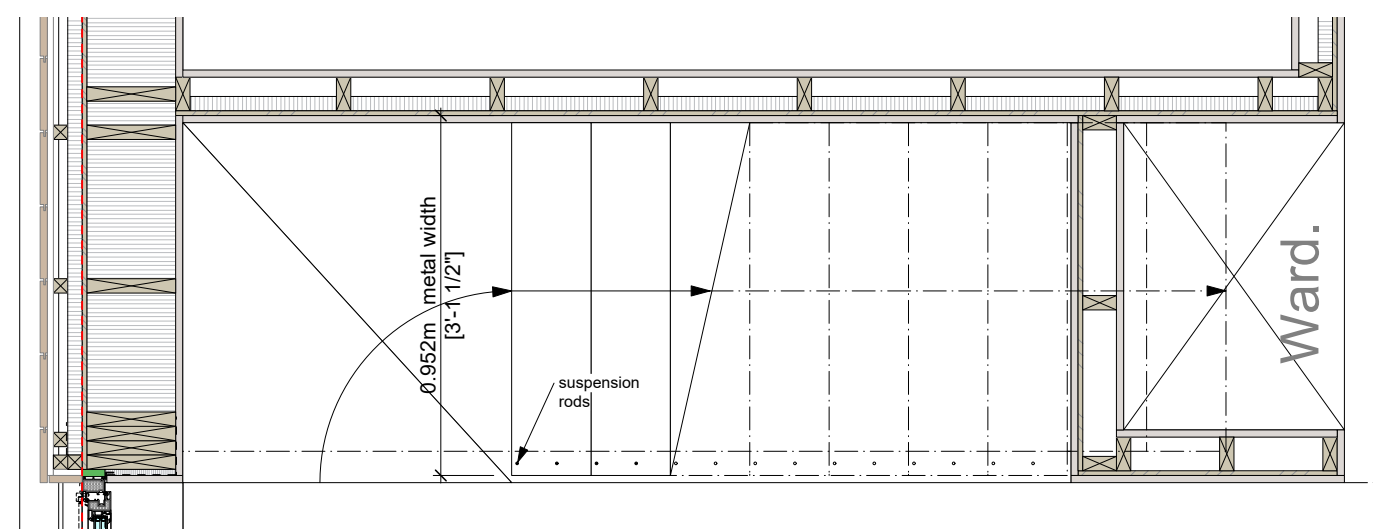


SECTION B1
1:20

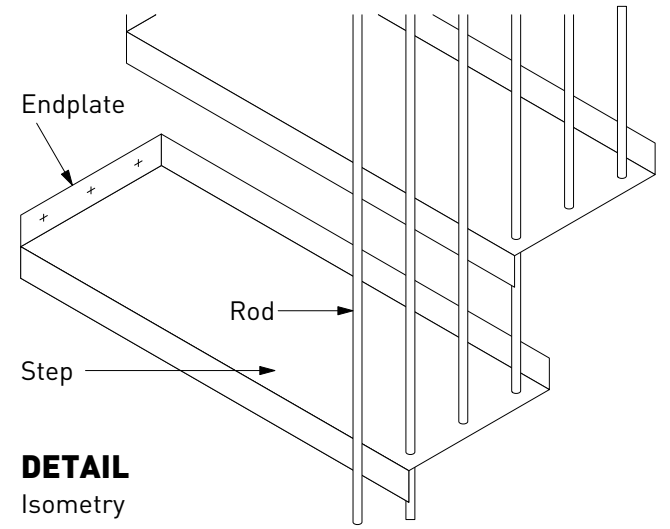


RENDER
for illustration only

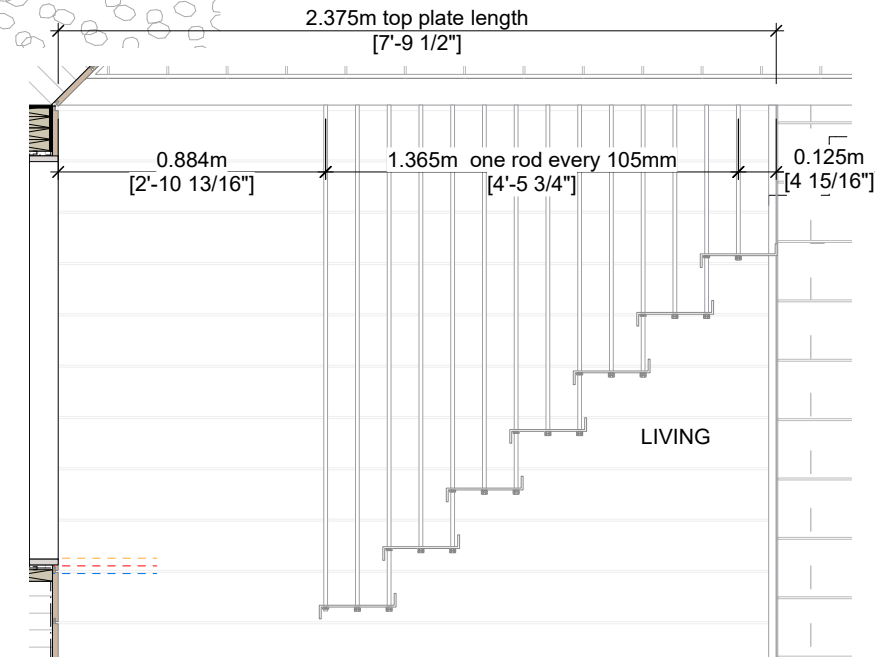
- LIST OF PARTS**
- 7 pce folded step with each:
 - 3 rod holes
 - 1 end plate welded on the inside of fold, with 3 mounting holes for wood screws
 - 14 pce rods variable length, thread on each side
 - 1 pce top plate, 14 holes with threads to receive rods
 - All holes for wood screws chamfered for flush screw head



PLAN
1:20



DETAIL
Isometry



ELEVATION
1:25

Paper size is ledger 7x11"

CONCRETE FLOOR AND WOOD CEILING ARE FINISHED SURFACES. DO NOT DRILL, DO NOT TAPE!

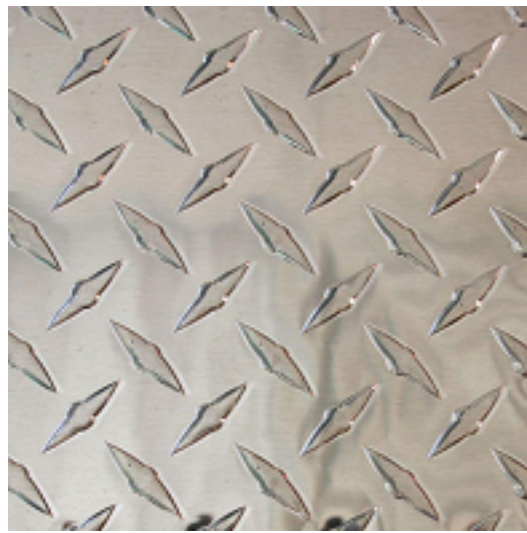
See www.psar.ch/hindon for a 360° walk-through.

058

STAIRS DETAIL
SCALE 1:20 - 2020/Aug/23

PHILIPP STÄHELI ARCHITEKT
KATHARINA-SULZER-PLATZ 2
CH-8400 WINTERTHUR
SWITZERLAND

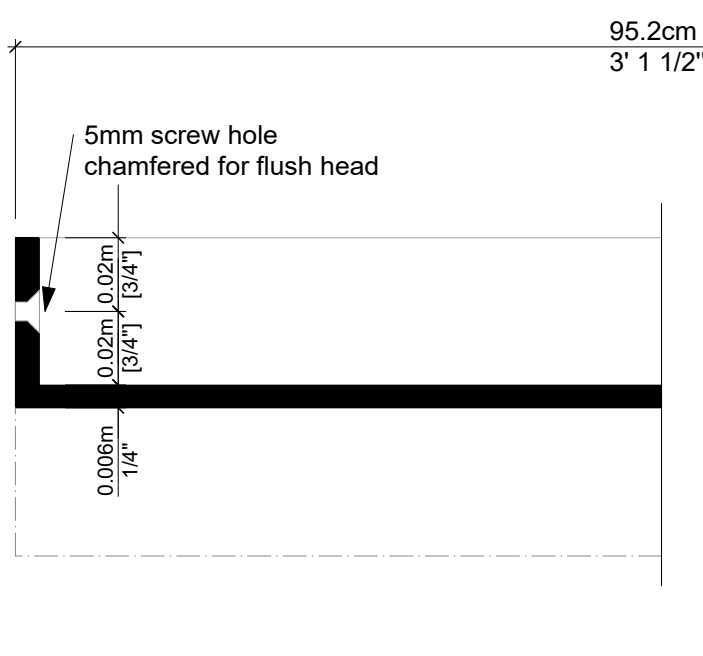
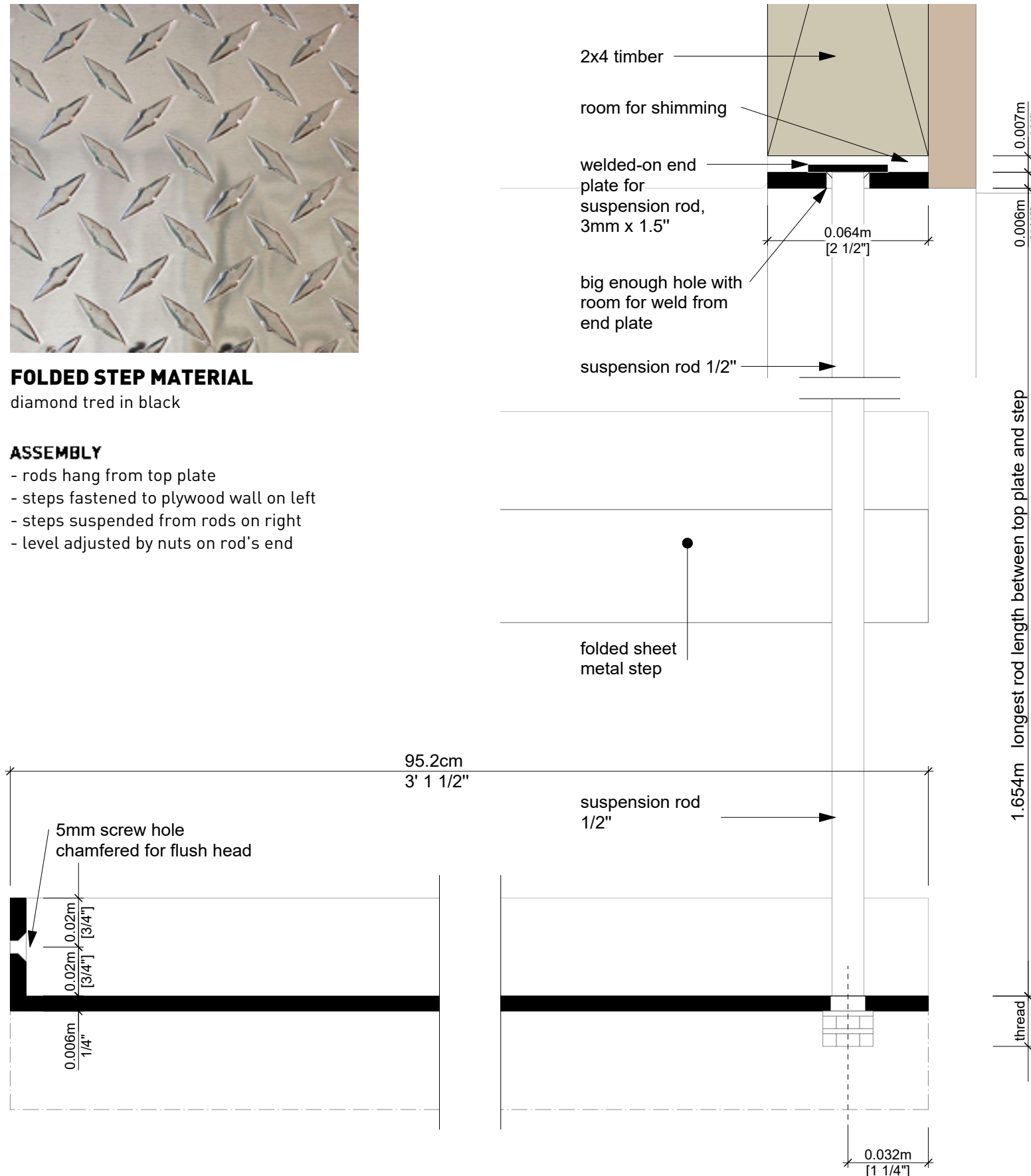
BUILDING SITE
1203 BING TR, Algonquin Highlands
HINDON LAKE, HALIBURTON
ONTARIO, CANADA, K1M 1J2



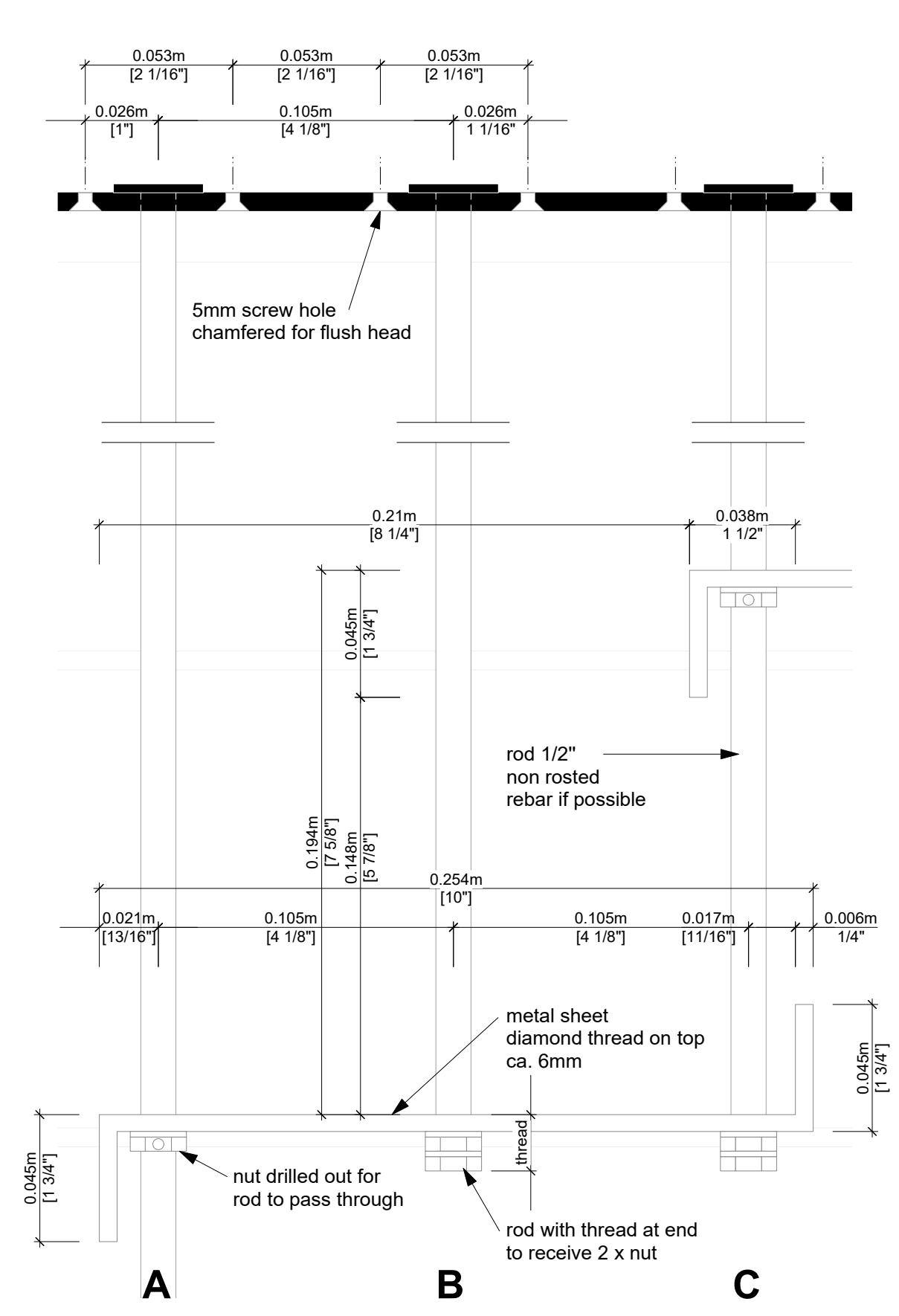
FOLDED STEP MATERIAL
diamond tread in black

ASSEMBLY

- rods hang from top plate
- steps fastened to plywood wall on left
- steps suspended from rods on right
- level adjusted by nuts on rod's end



DETAIL
1:2 - cross sectionx



DETAIL
1:2 - side view

Paper size is ledger 7x11"

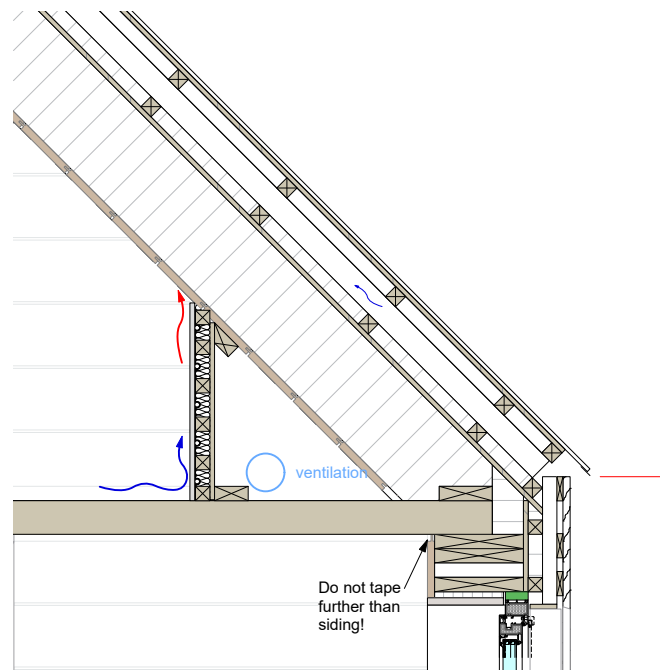
CONCRETE FLOOR AND WOOD CEILING ARE FINISHED SURFACES. DO NOT DRILL, DO NOT TAPE!

See www.psar.ch/hindon for a 360° walk-through.

058.1 STAIRS DETAIL
SCALE 1:2 - 2020/Aug/23

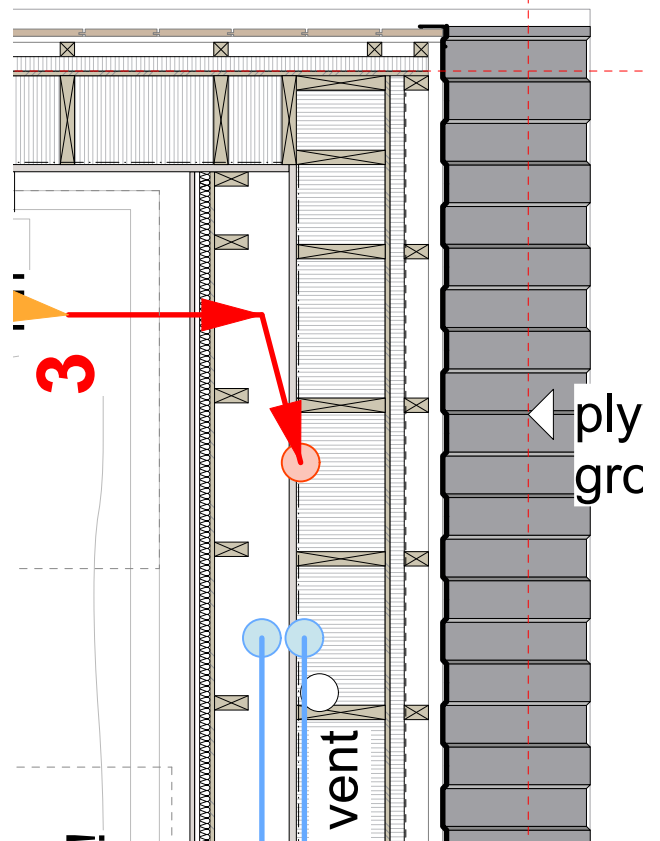
PHILIPP STÄHELI ARCHITEKT
KATHARINA-SULZER-PLATZ 2
CH-8400 WINTERTHUR
SWITZERLAND

BUILDING SITE
1203 BING TR, Algonquin Highlands
HINDON LAKE, HALIBURTON
ONTARIO, CANADA, K1M 1J2



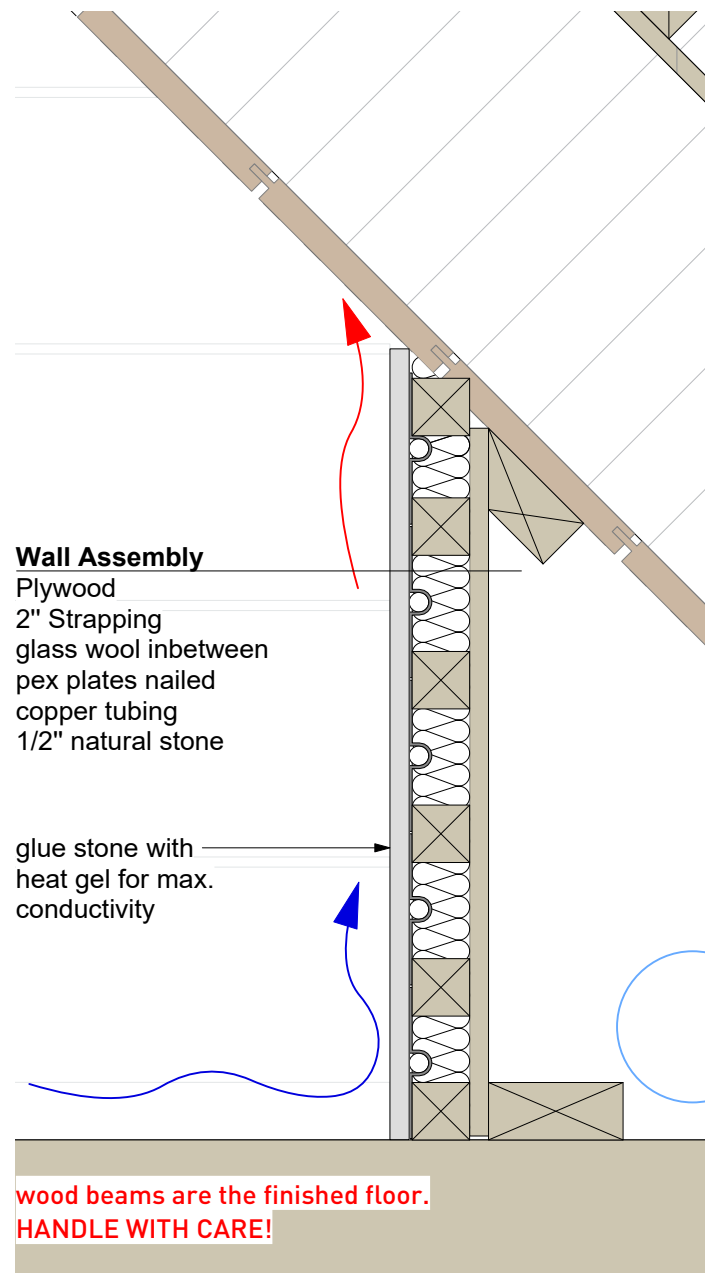
SECTION E-F

1:20



PLAN

1:20



Wall Assembly

Plywood
2" Strapping
glass wool inbetween
pex plates nailed
copper tubing
1/2" natural stone

glue stone with
heat gel for max.
conductivity

wood beams are the finished floor.
HANDLE WITH CARE!

SECTION F

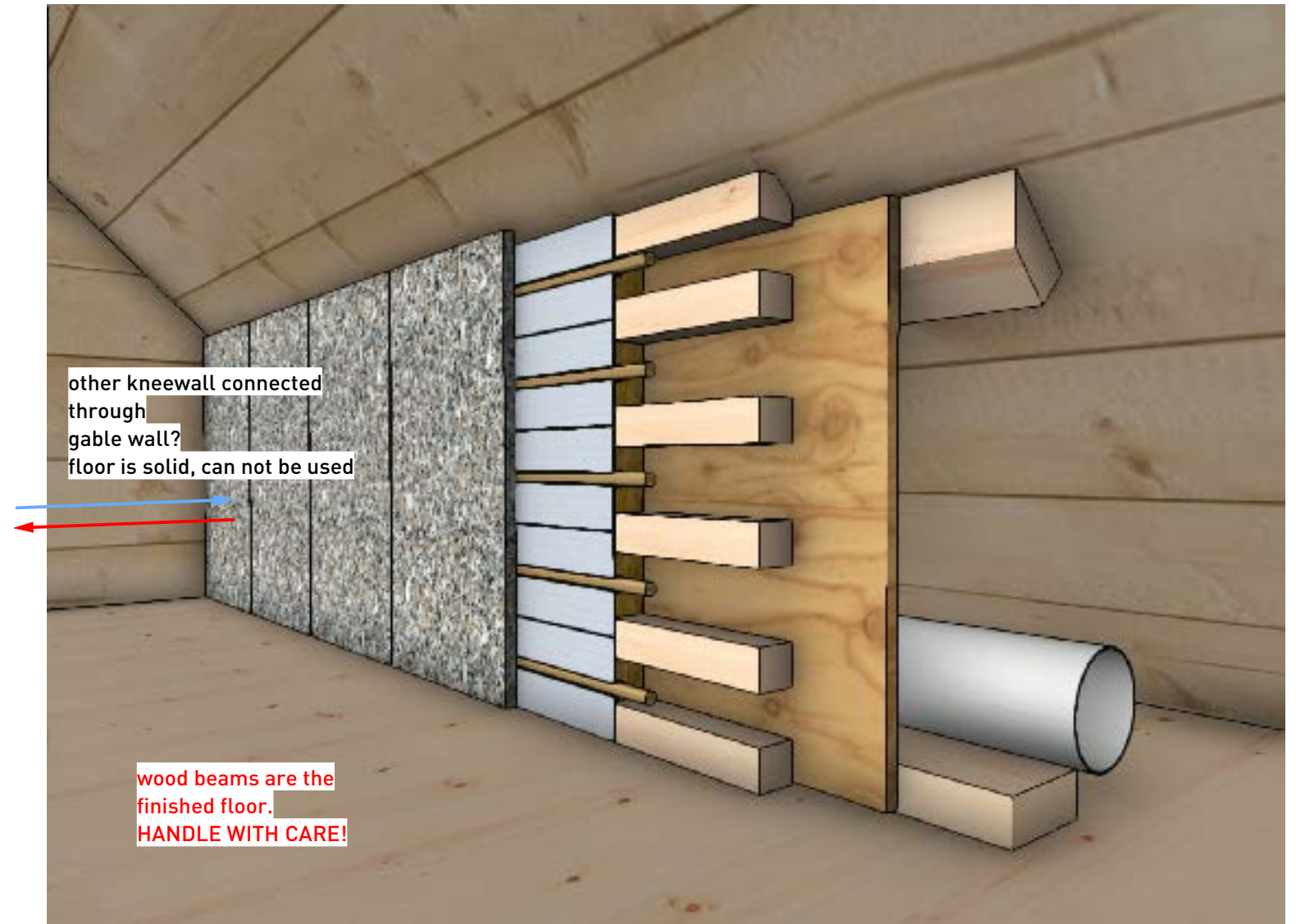
1:5

PEX PLATE CALCULATION

Kneewall length: 4m = 13.1ft
5 Pipes each kneewall: 5x4m=40m = 131ft
2 kneewalls: 2x40m = 80m = 262ft

Pex output: 25 BTU/ft = 7.3W/ft?
Kneewall output: 262ft x 9W/ft = 1'910W

Heating demand "upstairs" at -30°C = 1'030W

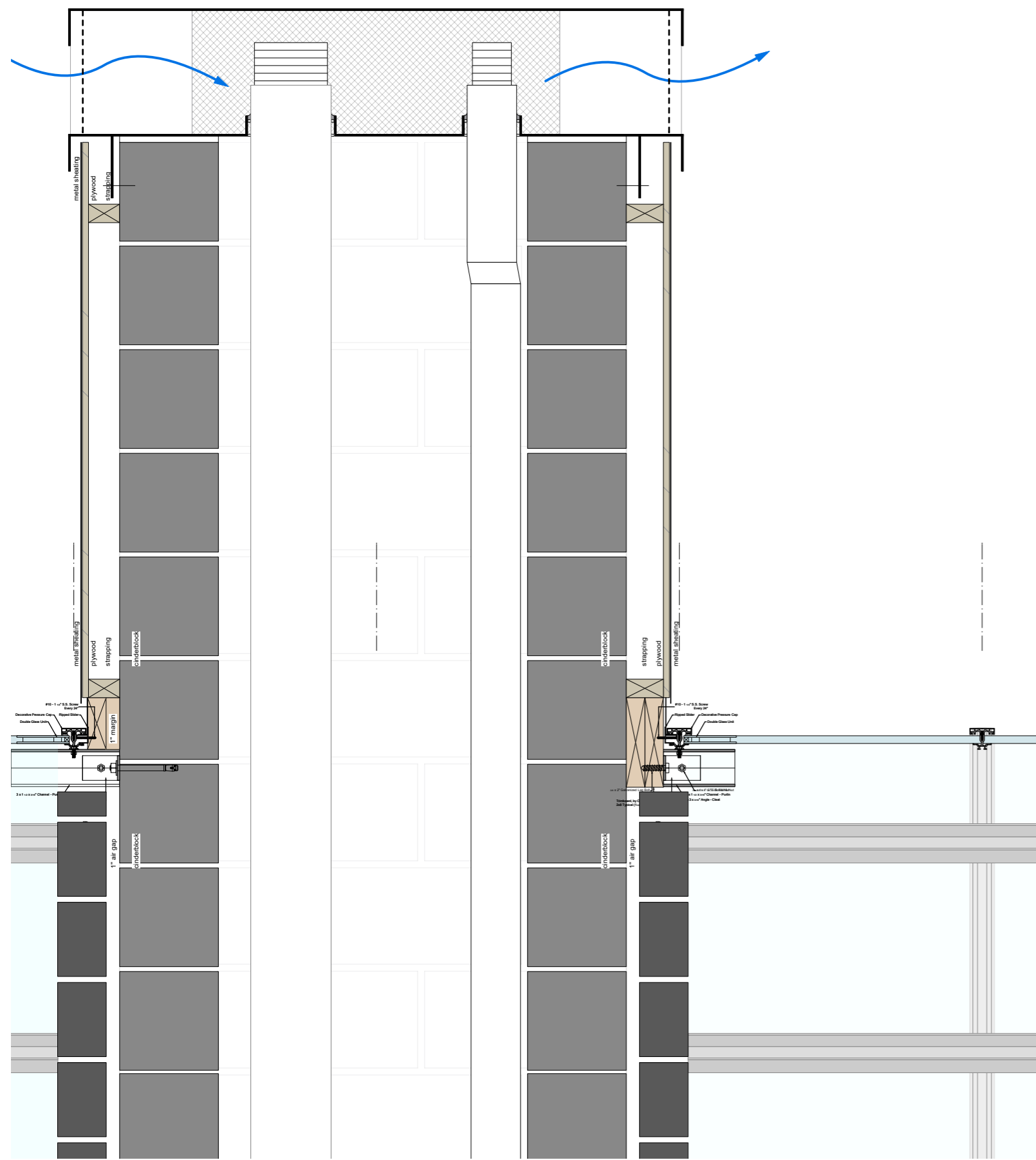


3D-Perspectives

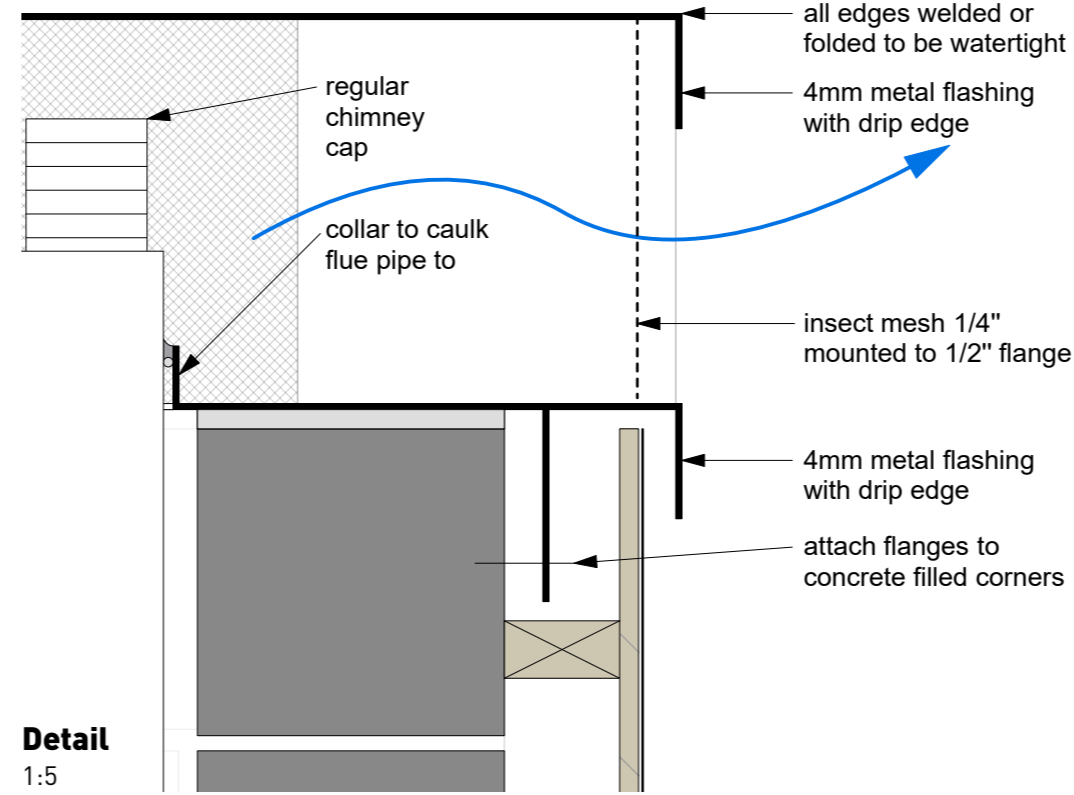
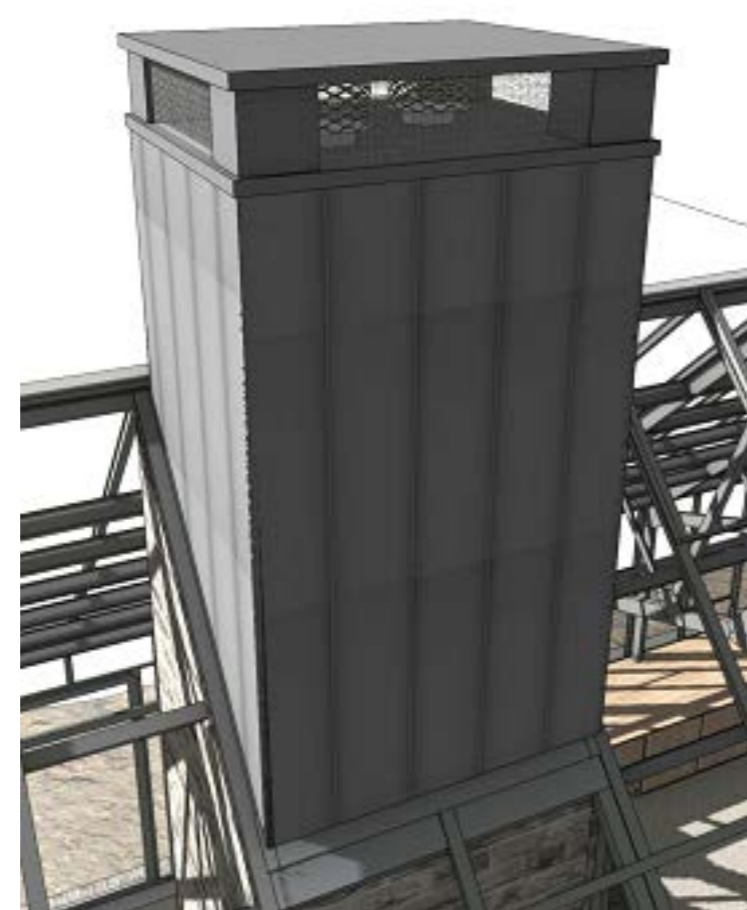
for illustration only



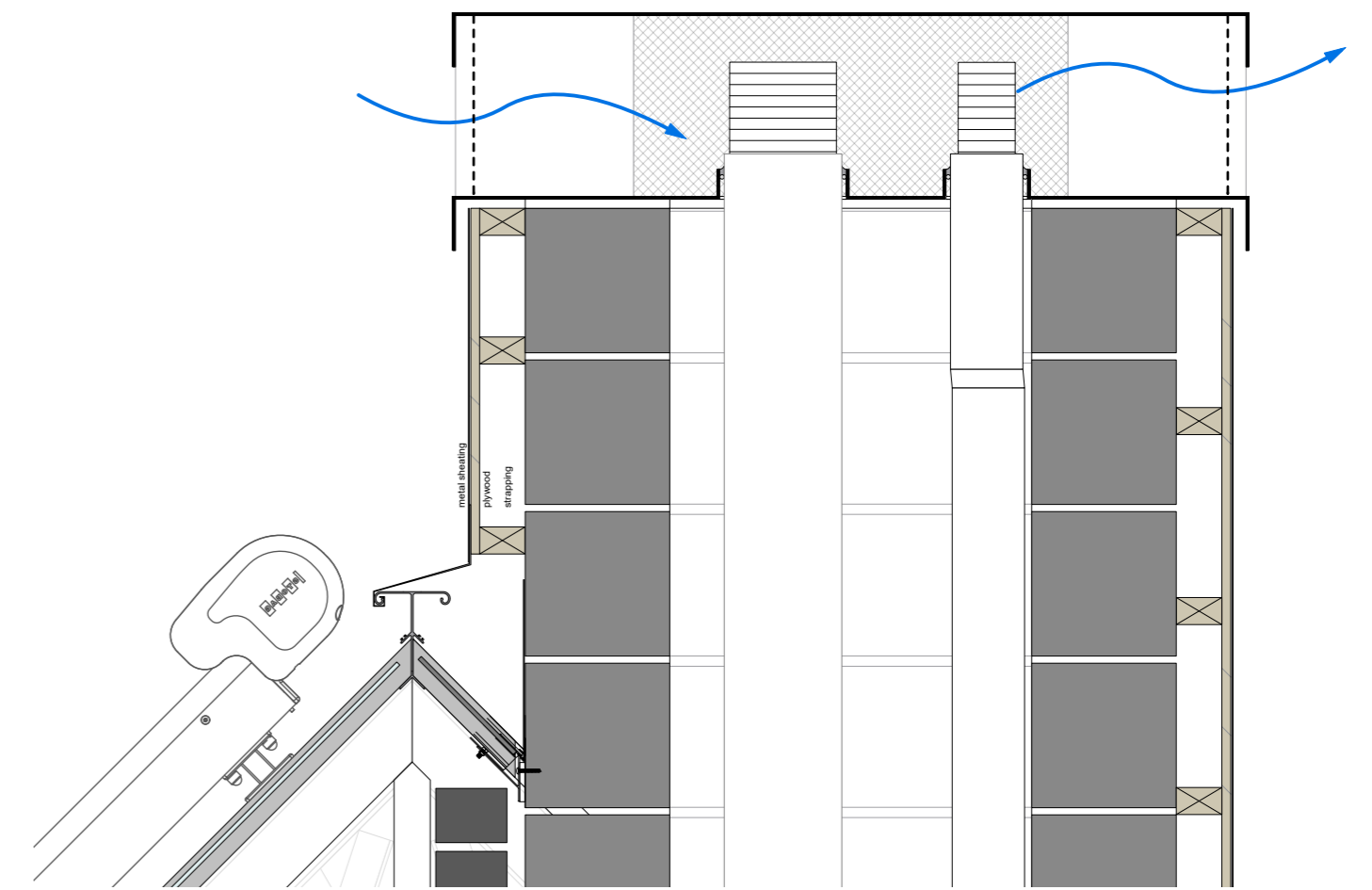
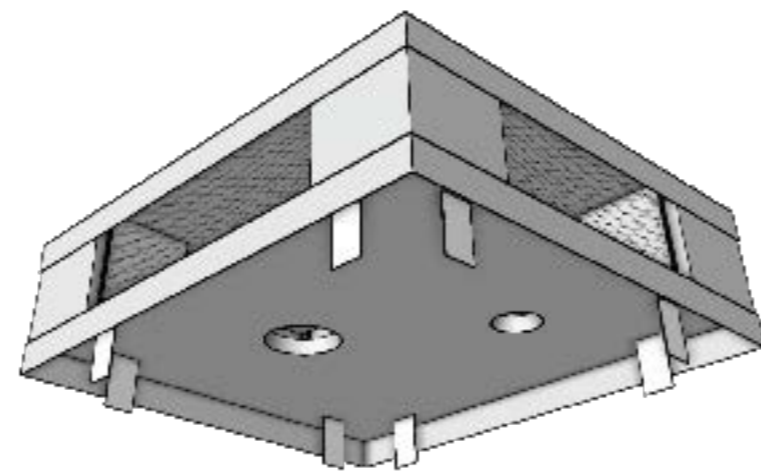
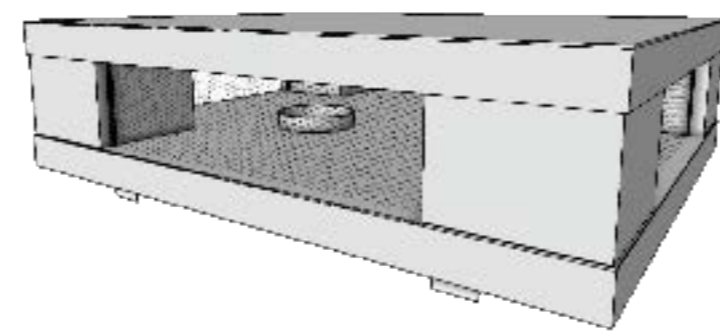
DRAFT TO BE APPROVED



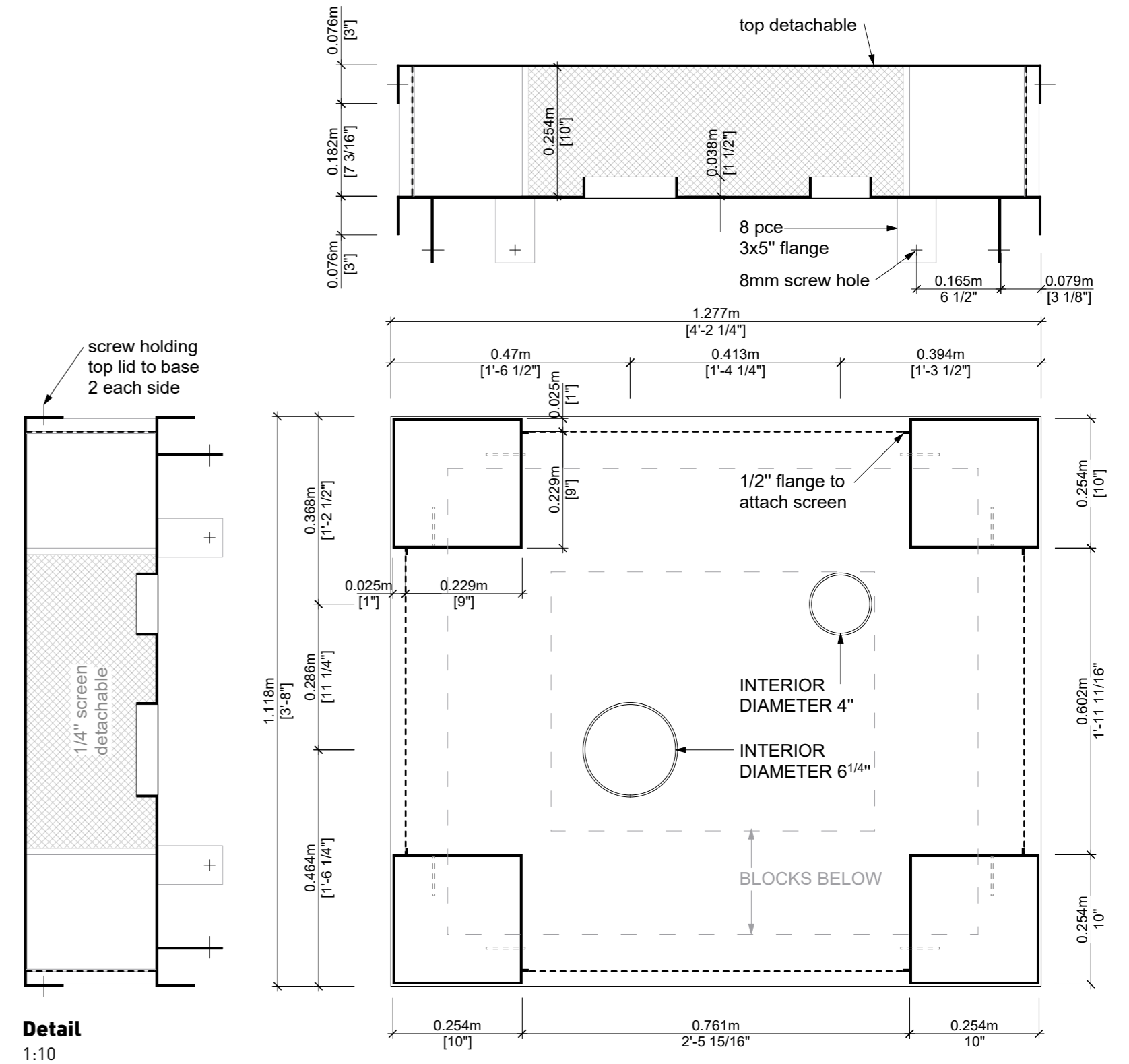
Section C
1:20



Detail
1:5



Section J/I
1:20



Detail
1:10

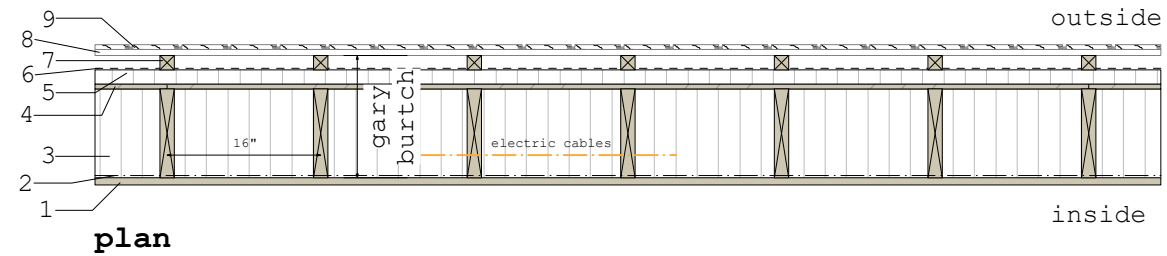
CHANGELOG

2020 APRIL 01
- all blocks filled with concrete for greenhouse attachment

2020
- only corner blocks and marked area filled with concrete. see other plans

2020 Aug 23
- attached with flanges
- top attached with screws

W1
 exterior wall
 assembly



metric u-value:

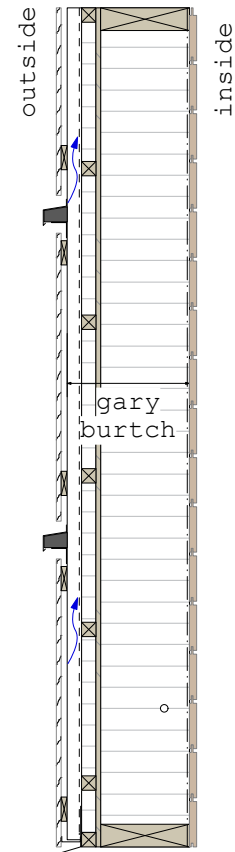
0.163 W/m²K

imperial u-value:

0.0287 BTU/h*ft²F

imperial r-value:

34.84

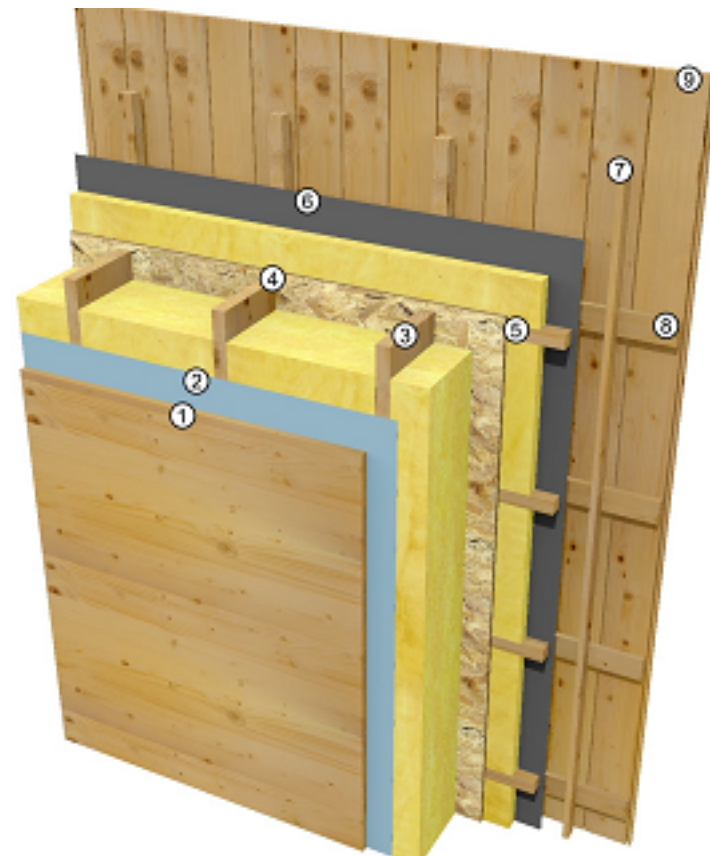


section

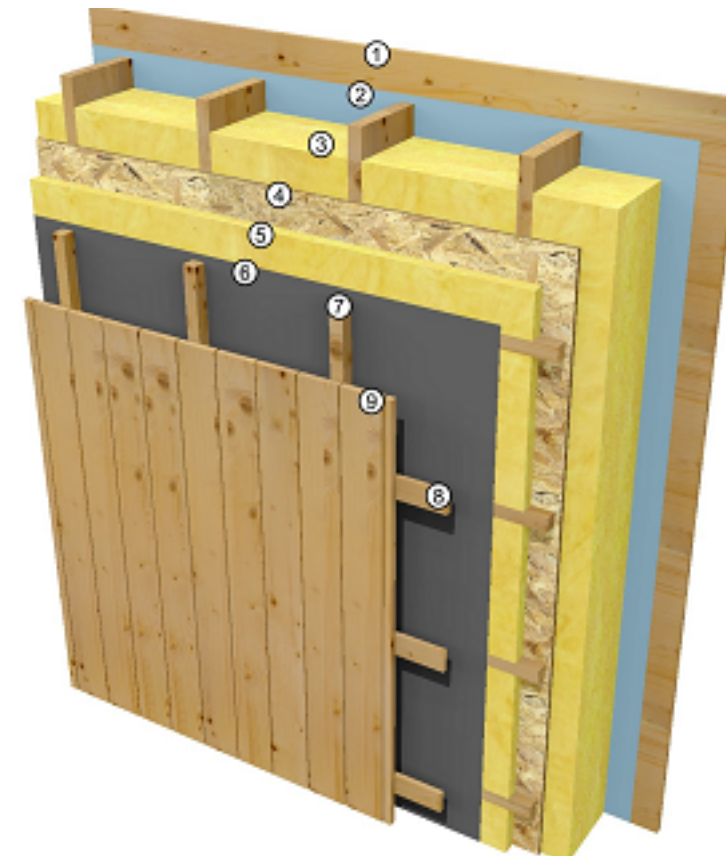
#	Actual	Nominal	Actual	OUTSIDE
9		1x7"	3/4"x6.75"	vertical tonge&groove(charred)
8	16x63.5mm	1x3"	5/8"x2.5"	horizontal strapping
7	38x38mm	2x2"	1.5x1.5"	vertical strapping (ventilation)
6				house wrap (black)
5	38x38mm	2x2"	1.5x1.5"	strapping with insulation
4	12.5mm	1/2"	1/2"	plywood
3	38x235mm	2x10"	1.5"x9.25"	studs with cellulose insulation
2				vapour barrier
1		1x7"	3/4"x6.75"	horizontal siding tongue&groove

INSIDE

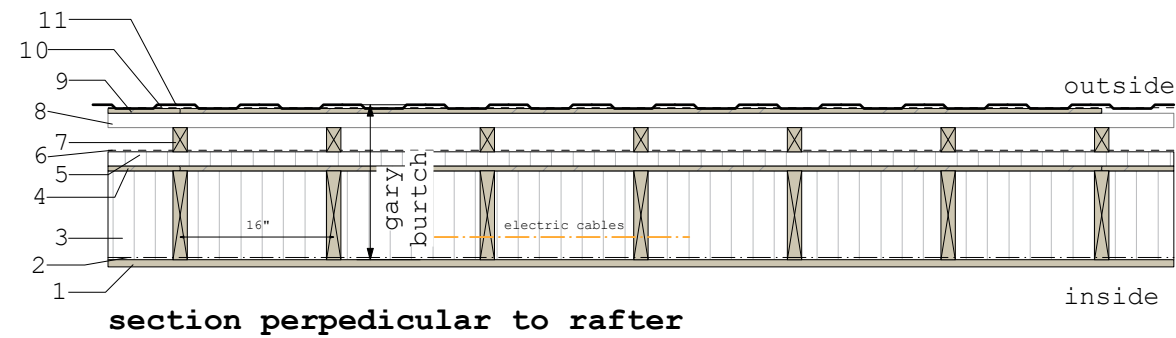
View inside



View outside



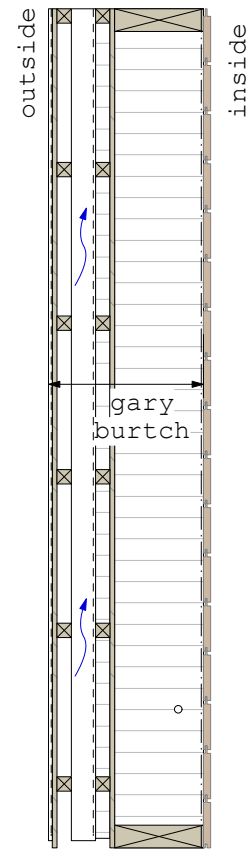
R1
roof assembly



metric u-value:
0.159 W/m²K

imperial u-value:
0.0279 BTU/h*ft²F

imperial r-value:
35.715

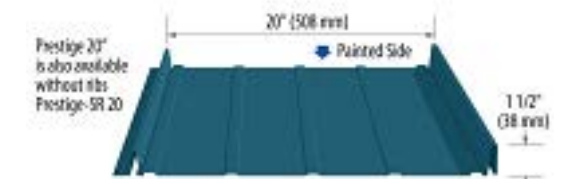
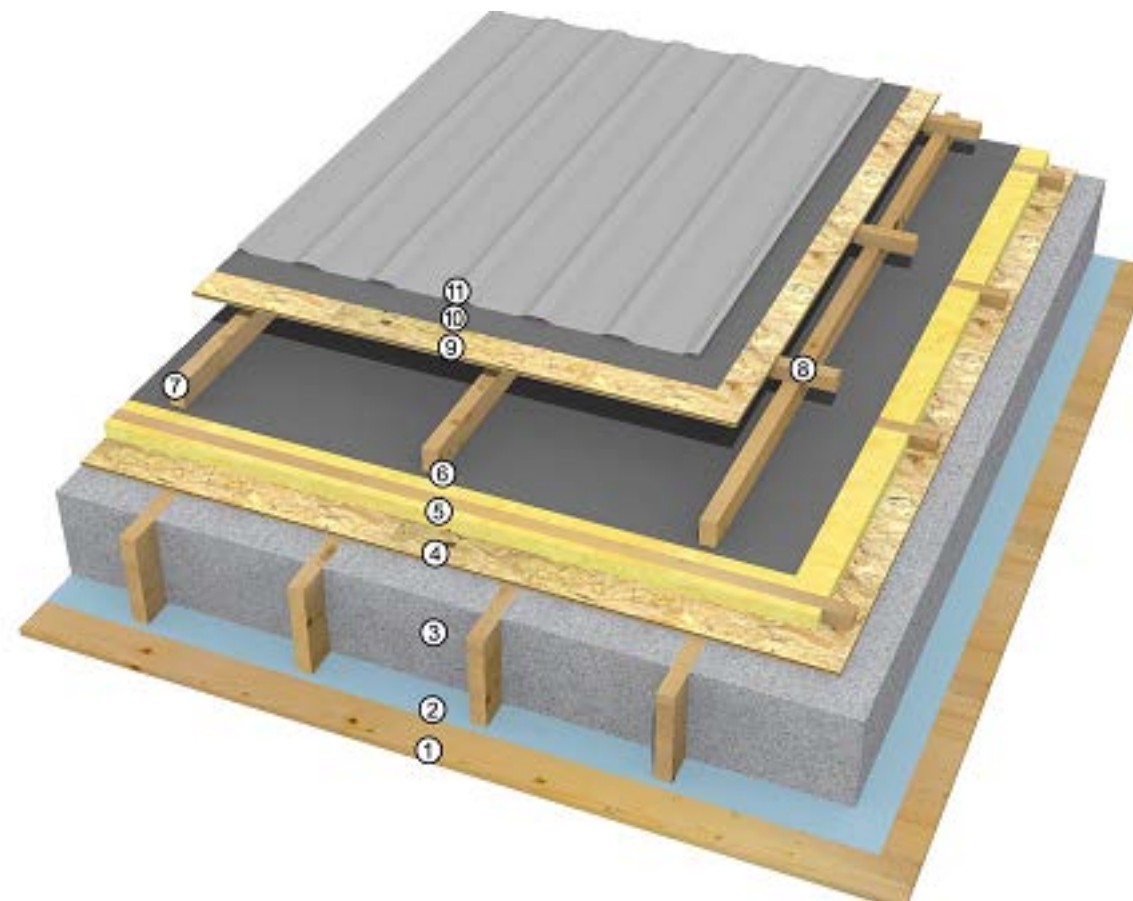


section
along rafter

#	Actual	Nominal	Actual	OUTSIDE
11	38mm	1.5"	1.5"	vicwest prestige 20''
10				Ice/Water shield
9	12.5mm	1/2''		plywood
8	38x38mm	2x2"	1.5x1.5"	horizontal strapping
7	38x64mm	2x3"	1.5x2.5"	vertical strapping (ventilation)
6				house wrap (black)
5	38x38mm	2x2"	1.5x1.5"	strapping with insulation
4	12.5mm	1/2"		plywood
3	38x235mm	2x10"		studs with cellulose insulation
2				vapour barrier
1	19x190mm	1x "	3/4"x 7.5	horizontal siding tongue&groove

View outside

INSIDE



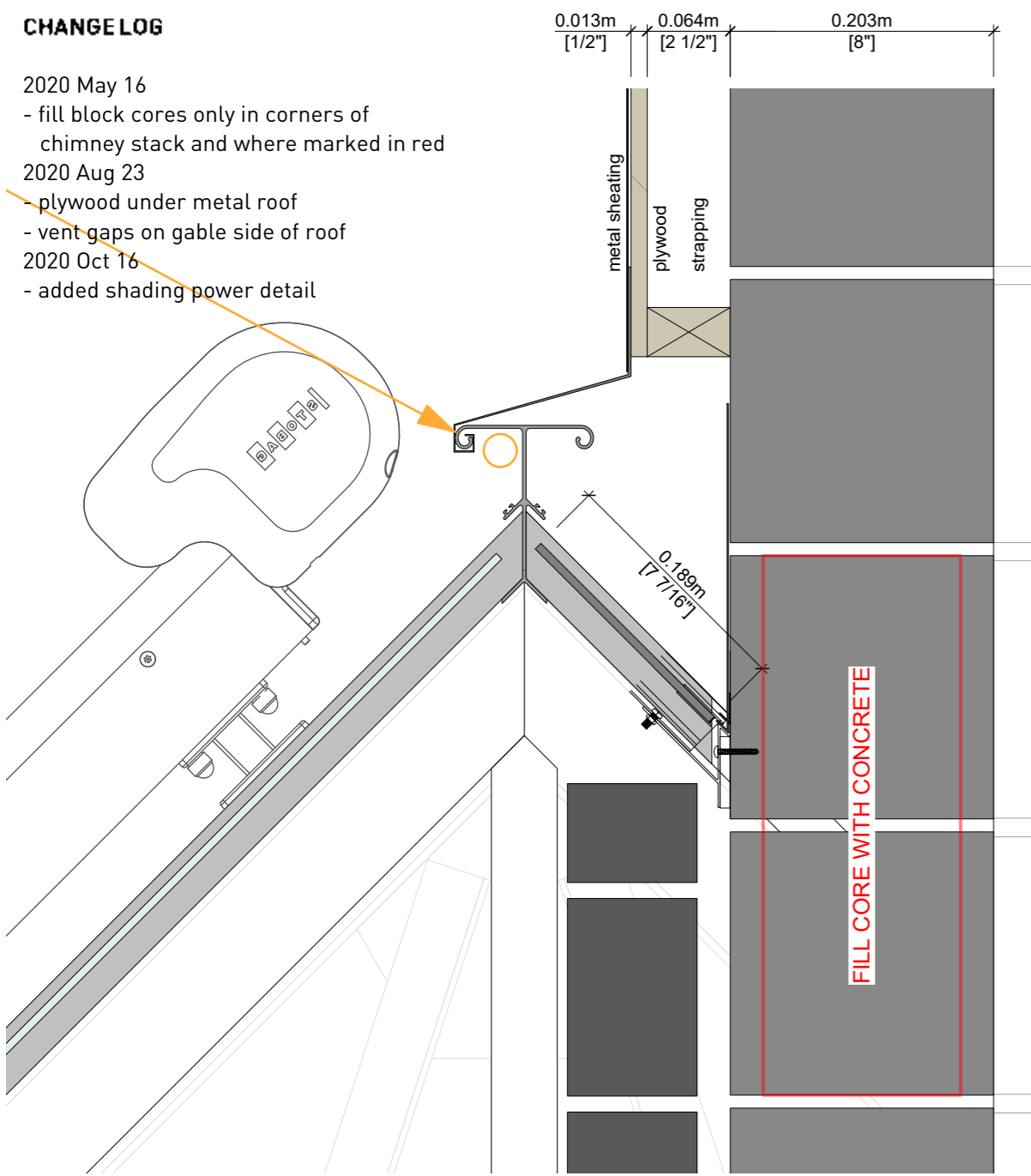
ROOFING PRODUCT
Vicwest Prestige 20'' with ribs
56068 Black

CHANGE LOG

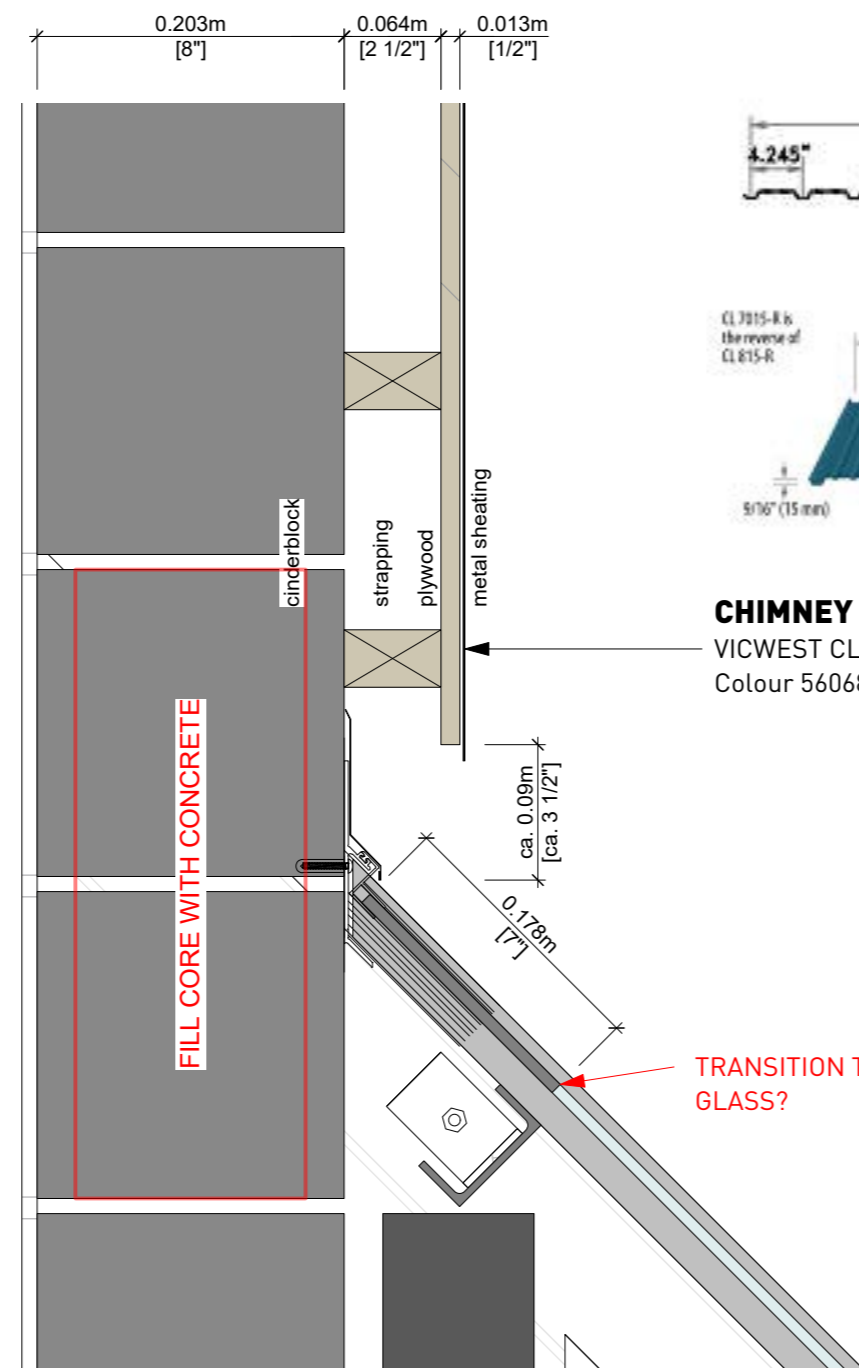
- 2020 AUG 21
- added plywood (9)
- added ice / watershield (10)

CHANGELOG

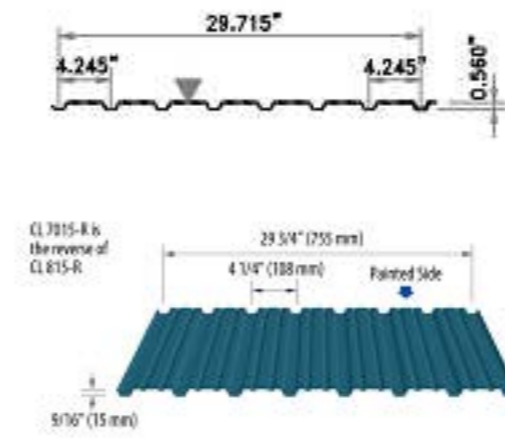
- 2020 May 16
- fill block cores only in corners of chimney stack and where marked in red
- 2020 Aug 23
- plywood under metal roof
- vent gaps on gable side of roof
- 2020 Oct 16
- added shading power detail



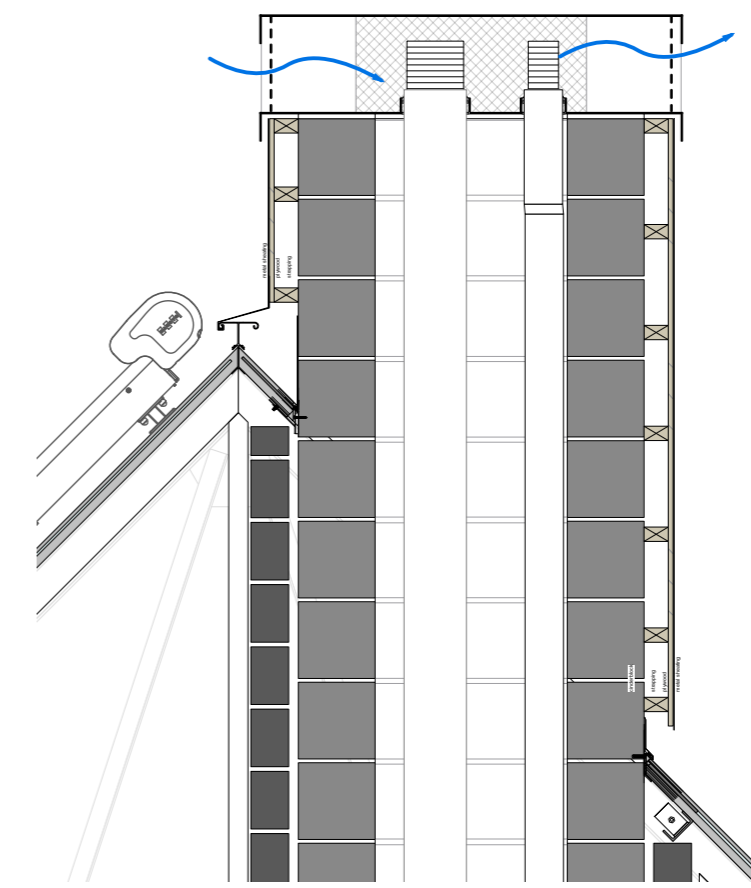
DETAIL SECTION J-I
1:5



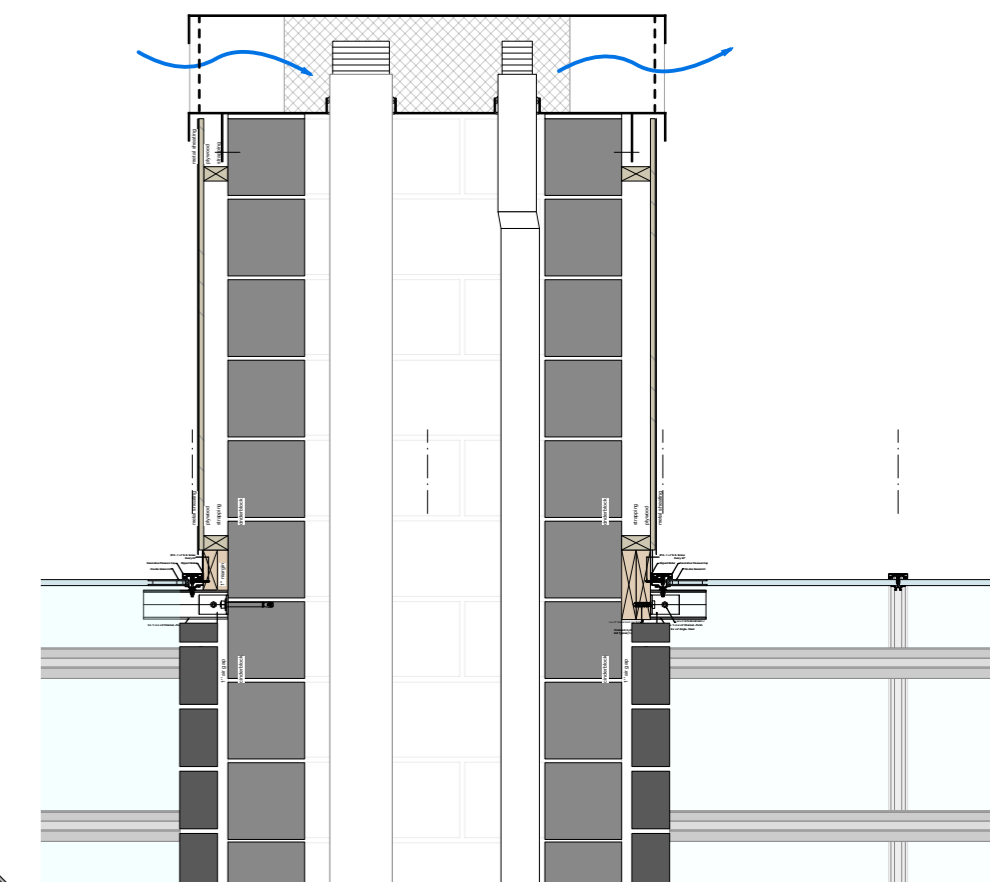
DETAIL SECTION J-I
1:5



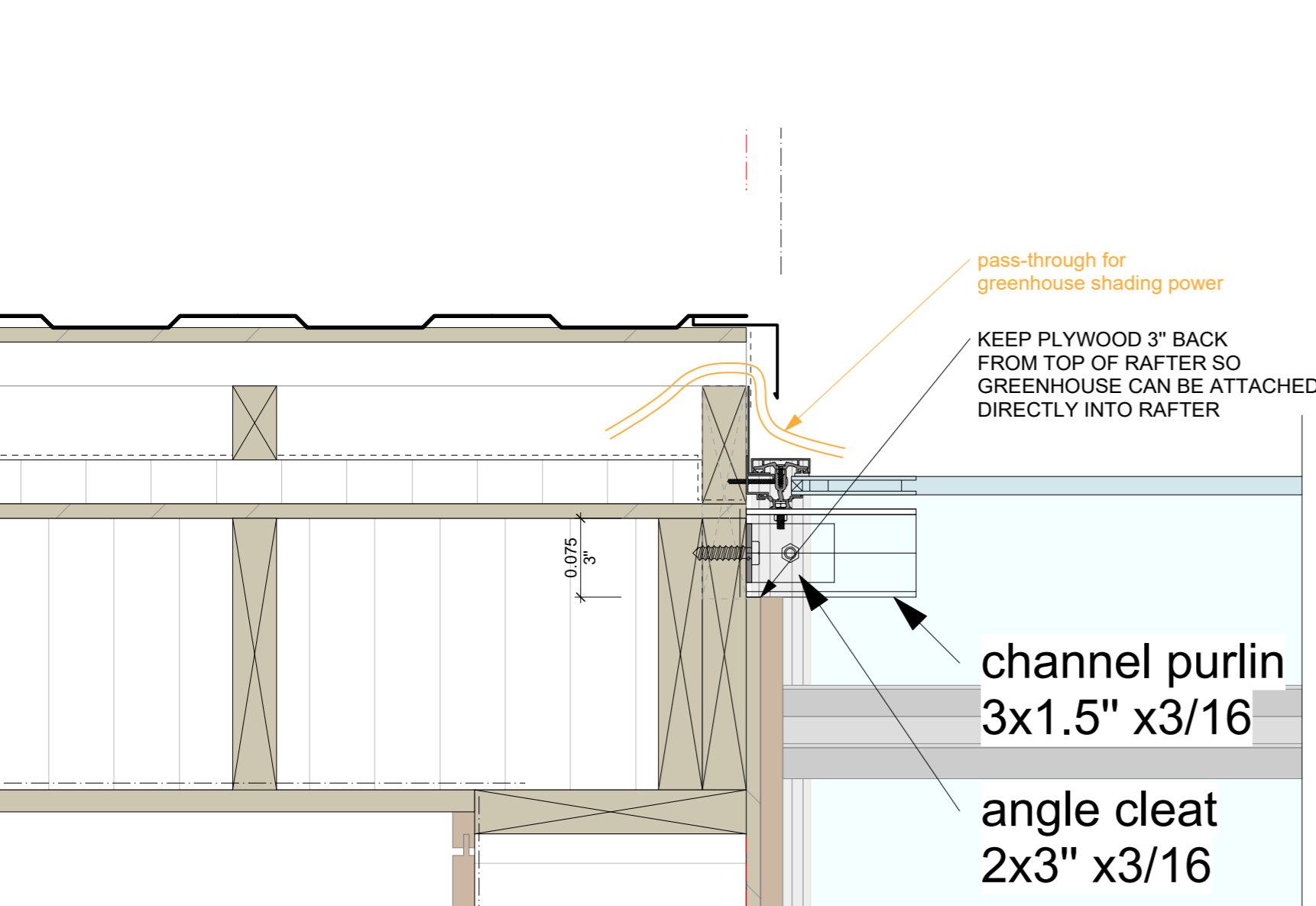
CHIMNEY FLASHING
VICWEST CL 7015-R
Colour 56068 Black



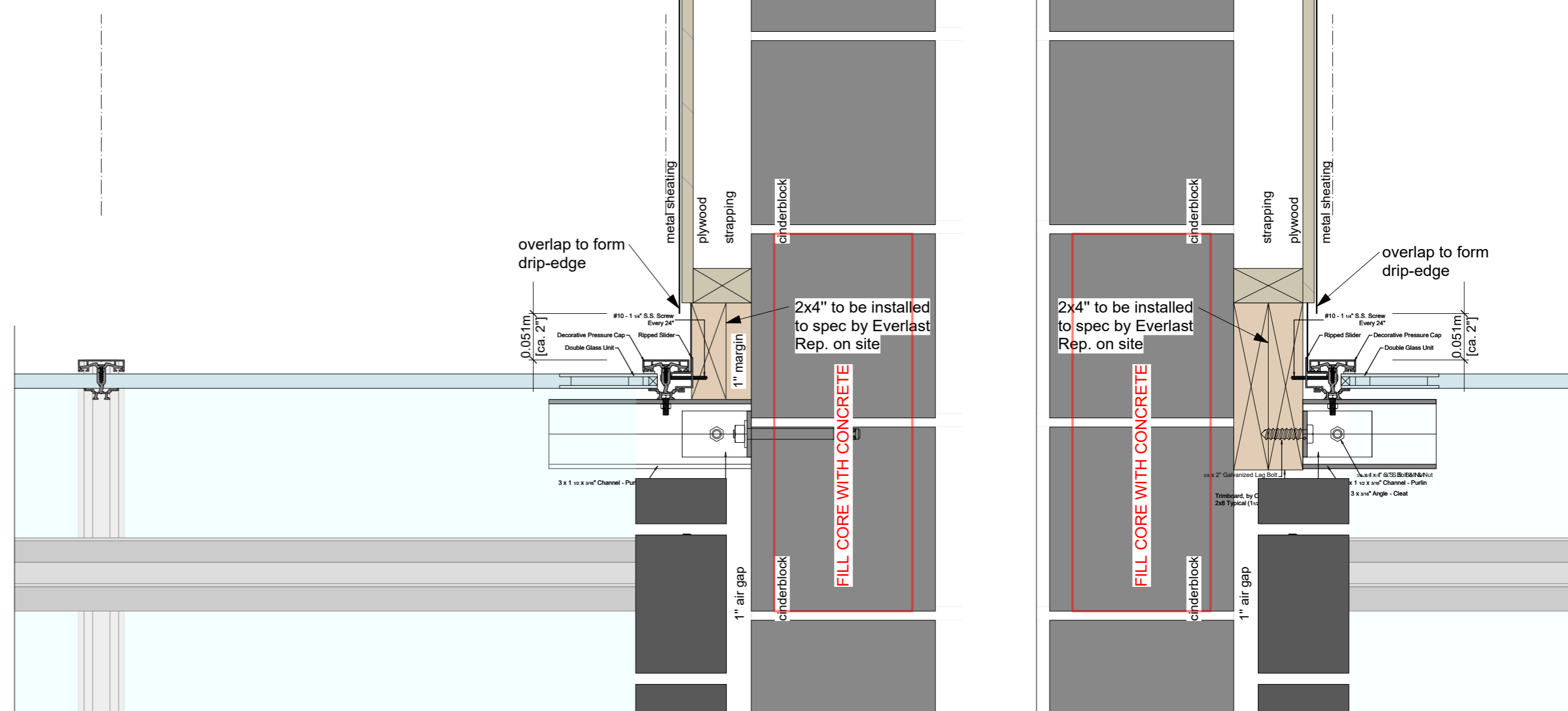
CROSSSECTION
1:20



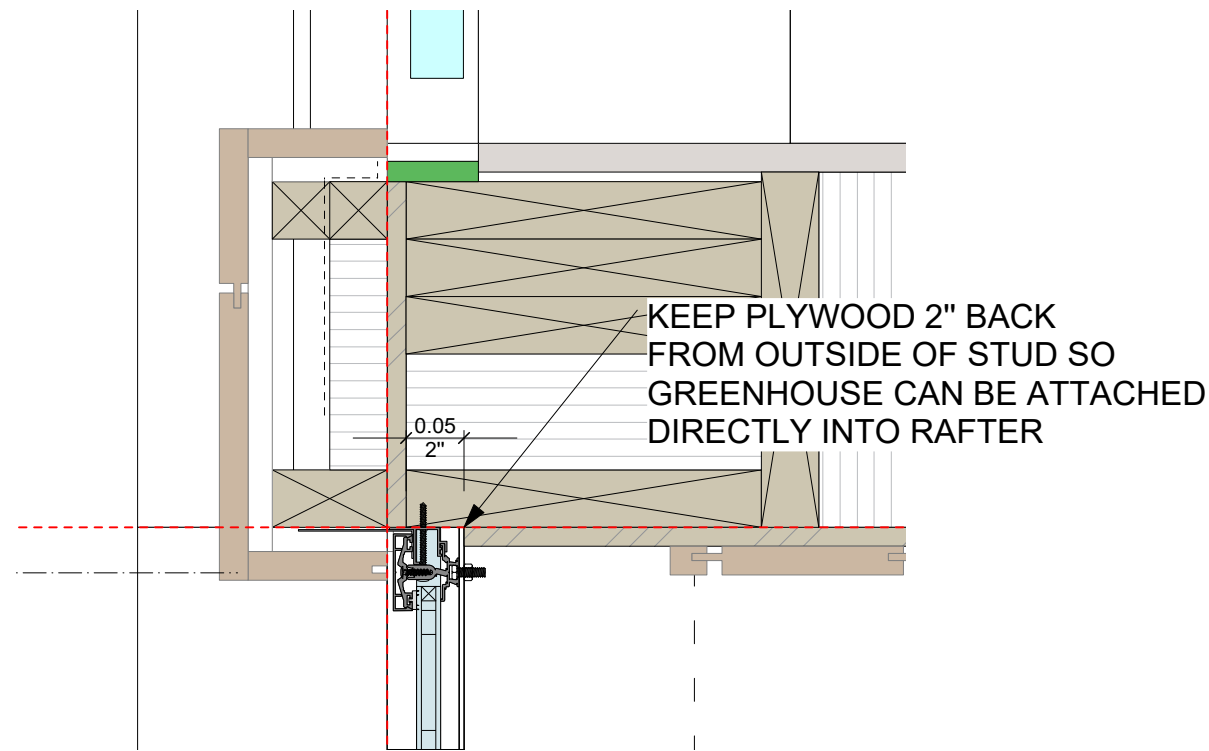
SECTION LONGITUDINAL
1:20



DETAIL SECTION B
1:5

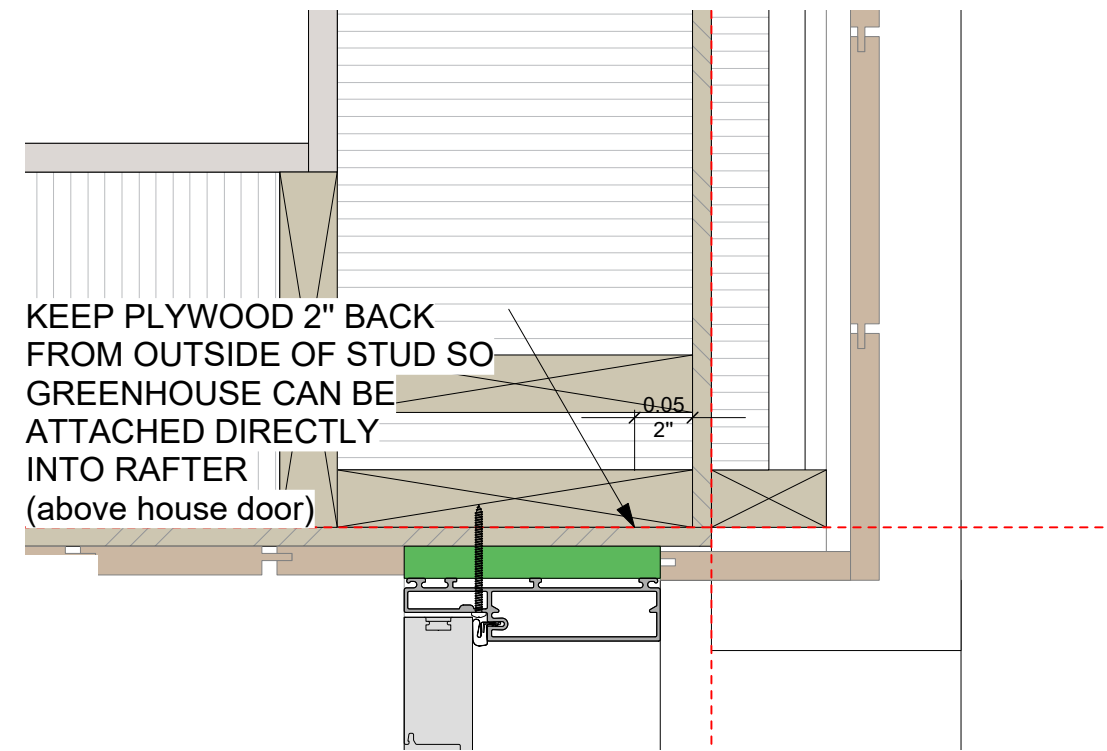


DETAIL SECTION C
1:5

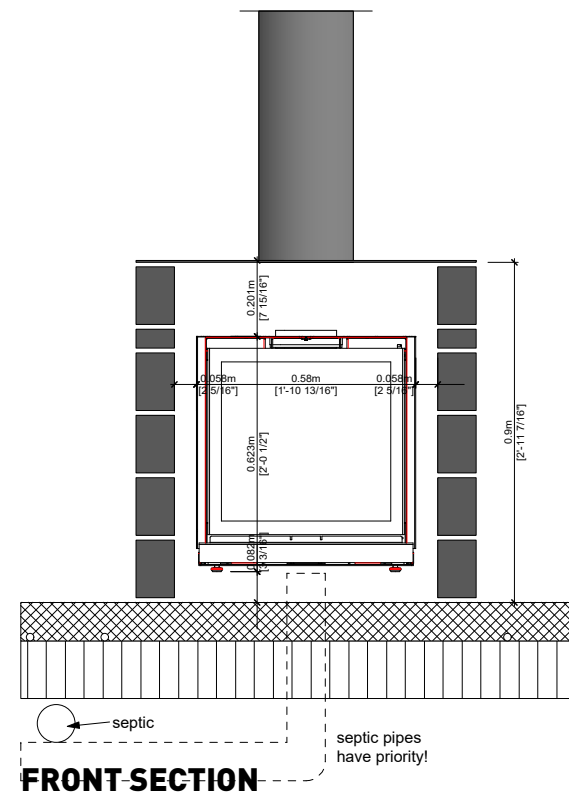
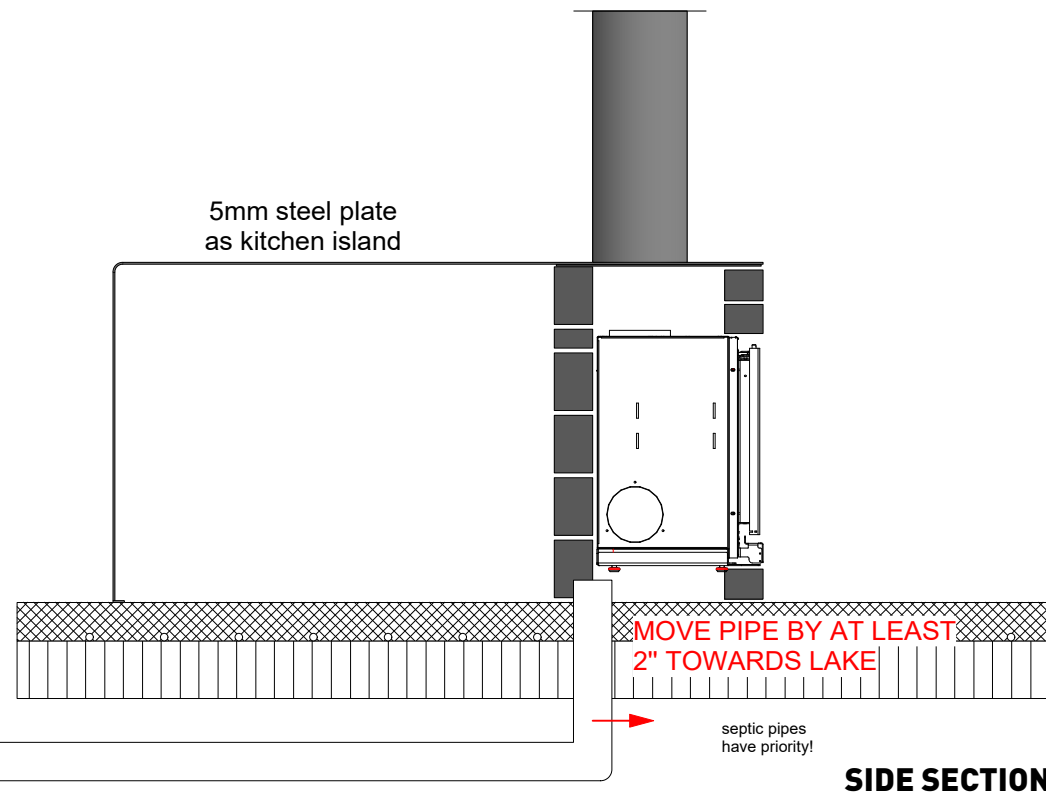
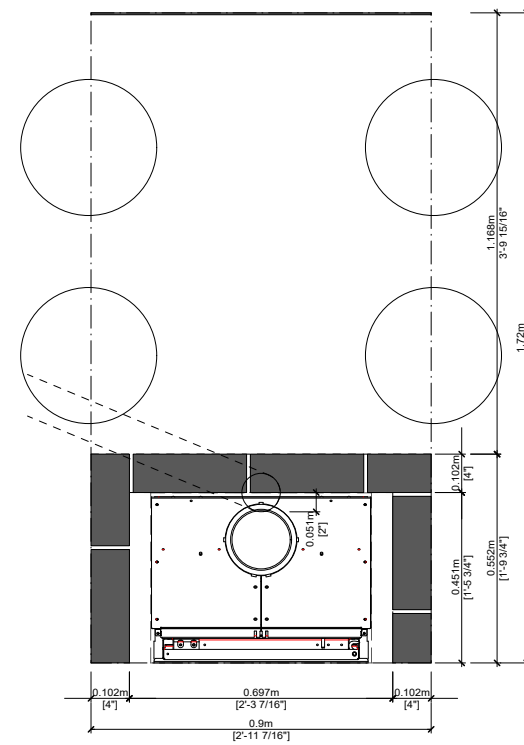
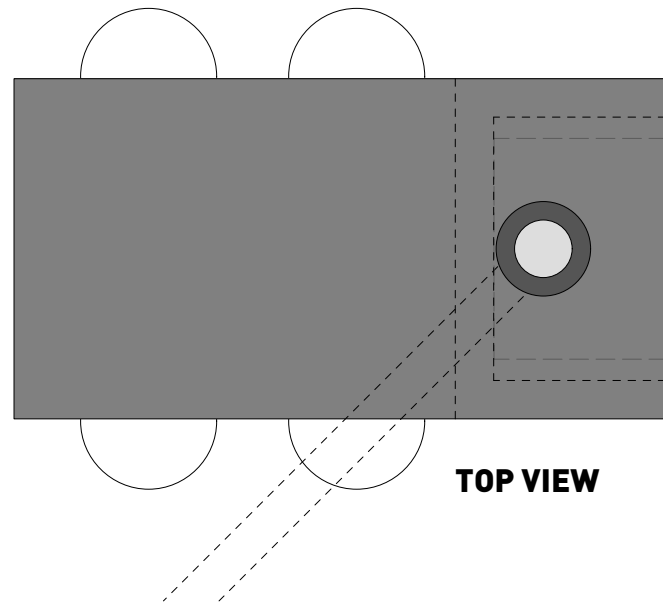


**GREENHOUSE ATTACHEMENT
SOUTHERN ELEVATION**

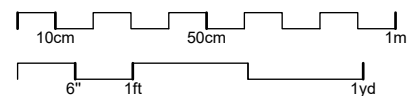
SEE 066 FOR RAFTER CUTBACK



**GREENHOUSE ATTACHEMENT
NORTHERN ELEVATION**



Paper size is ledger 7x11"

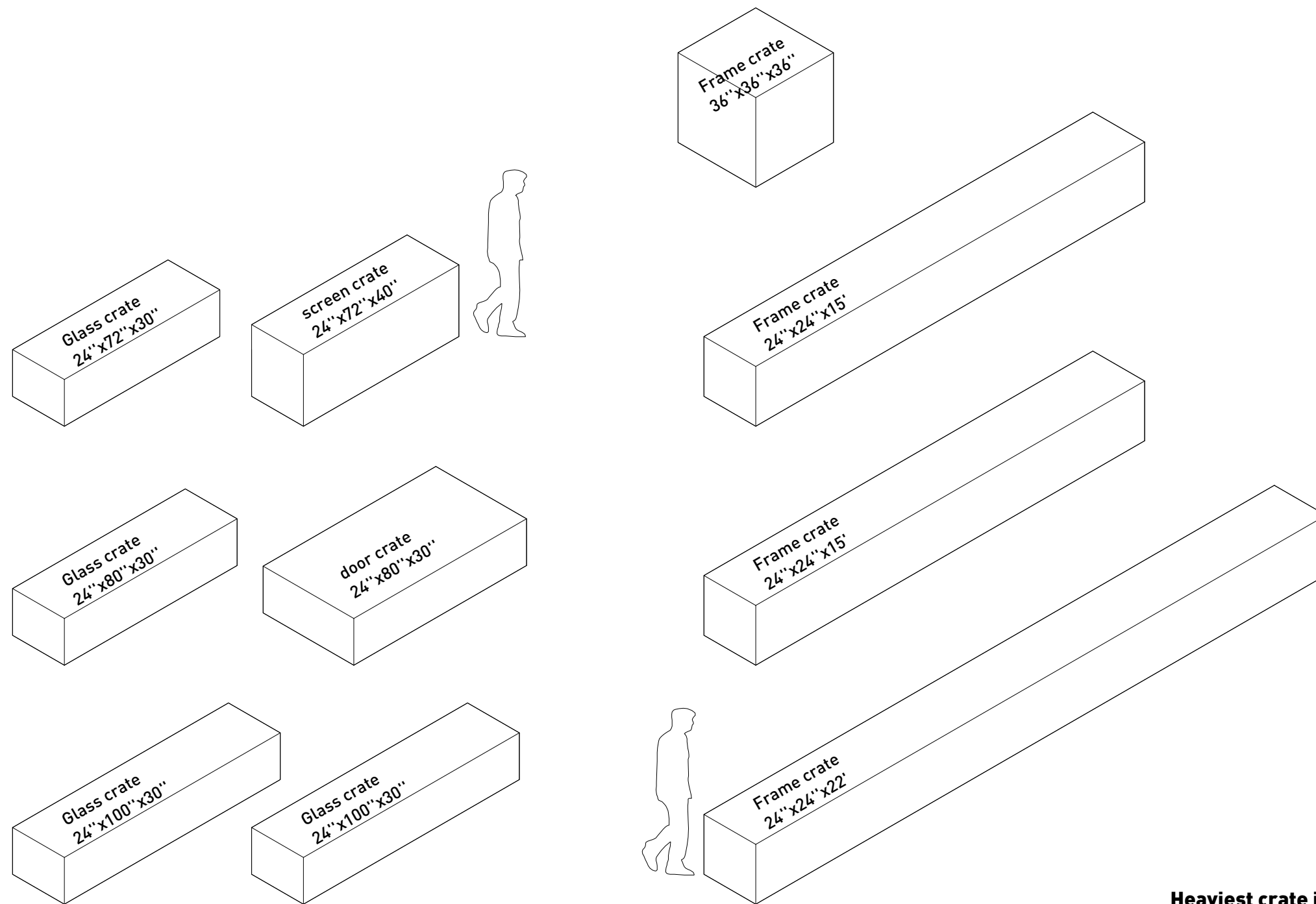


070

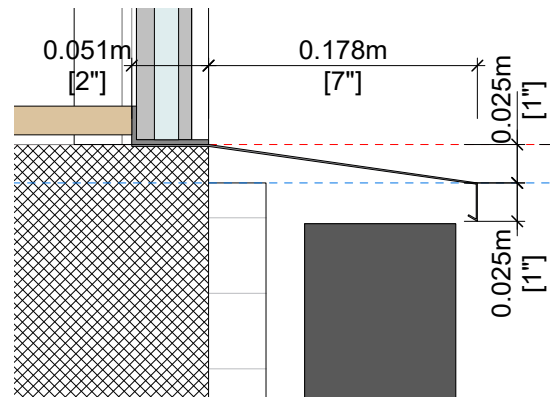
FIREPLACE DETAIL HOUSE
SCALE 1:20 - 2020/APR/01

PHILIPP STÄHELI ARCHITEKT
KATHARINA-SULZER-PLATZ 2
CH-8400 WINTERTHUR
SWITZERLAND

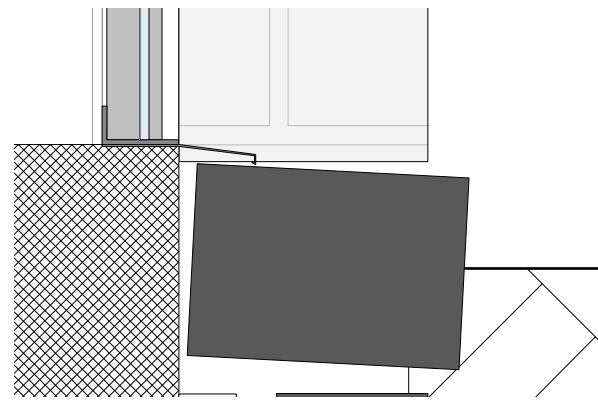
BUILDING SITE
1203 BING TR, Algonquin Highlands
HINDON LAKE, HALIBURTON
ONTARIO, CANADA, K1M 1J2



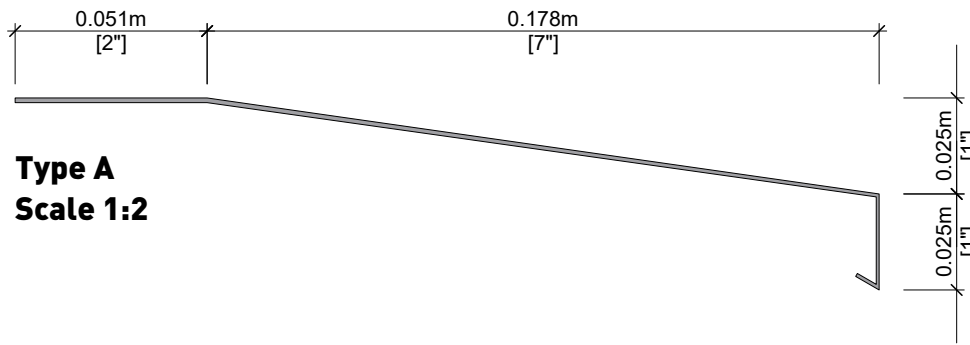
**Heaviest crate is glass crate
approx. 2'000 lbs (900kg)**



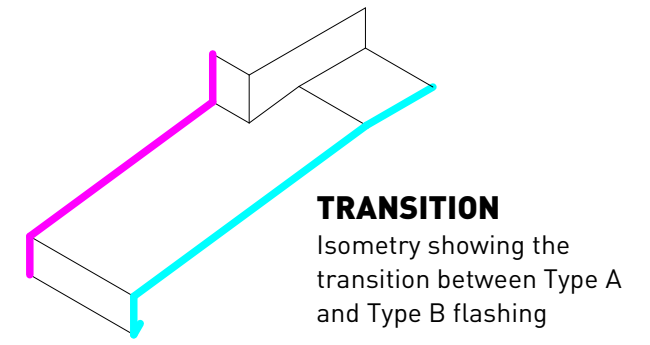
STANDART FLASHING (Type A)
Greenhouse



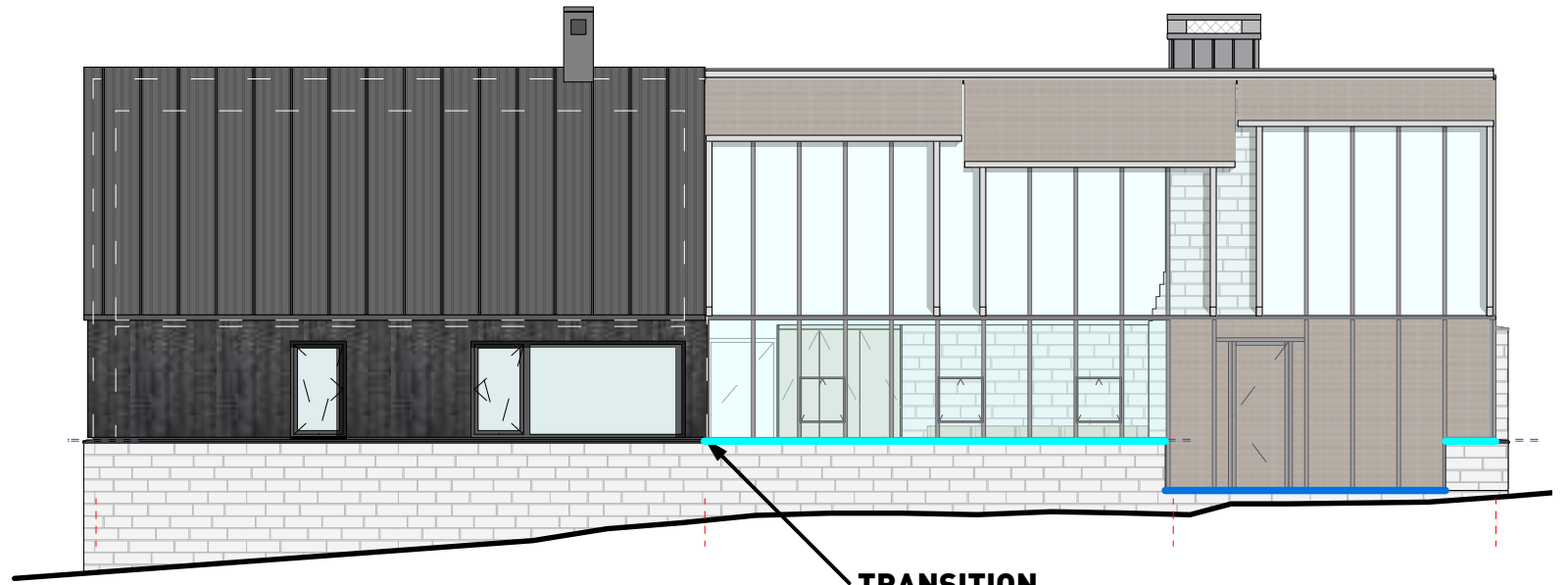
FOUNDATION DROP FLASHING (Type F)
Greenhouse



Type A
Scale 1:2

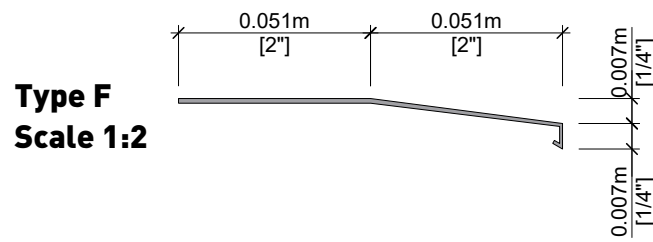
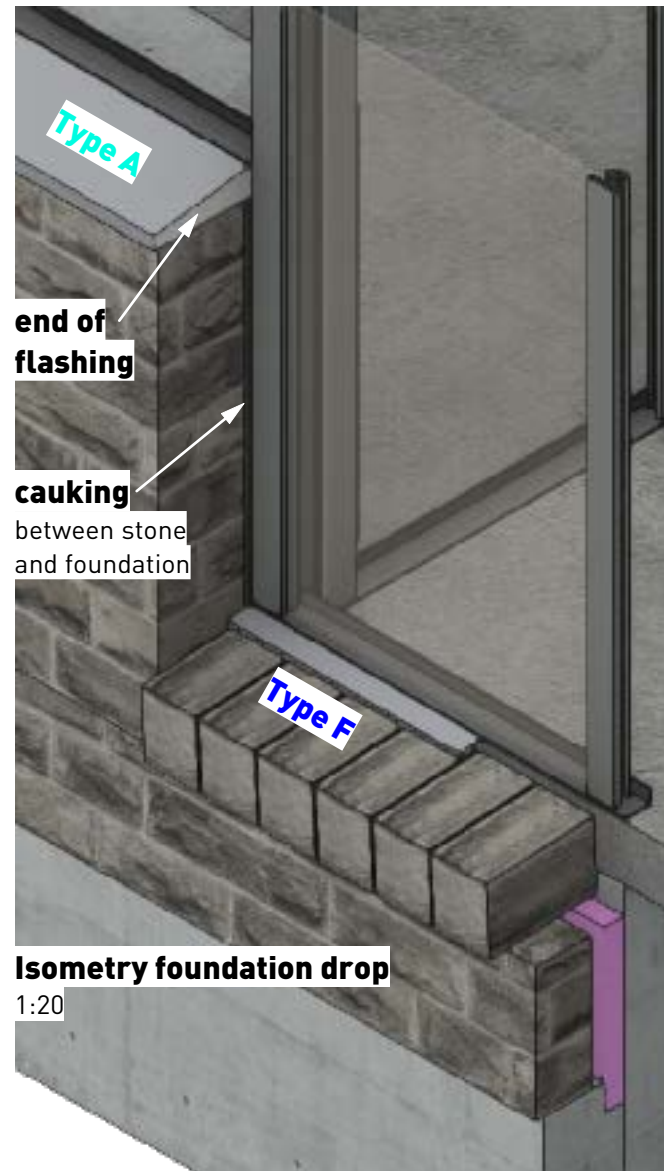


TRANSITION
Isometry showing the transition between Type A and Type B flashing

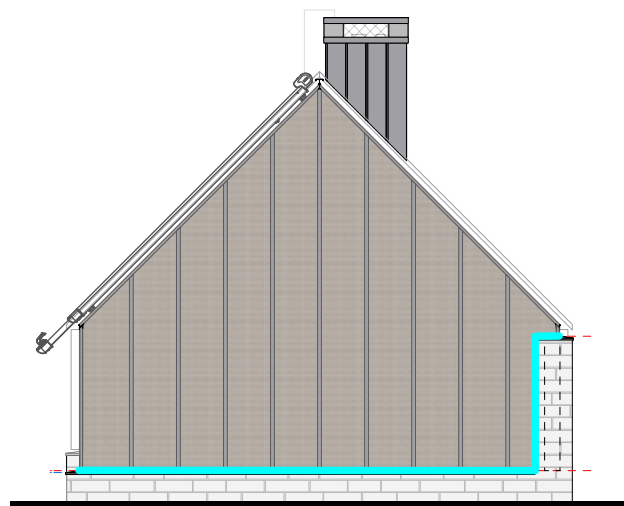


SOUTH elevation

TRANSITION



Type F
Scale 1:2

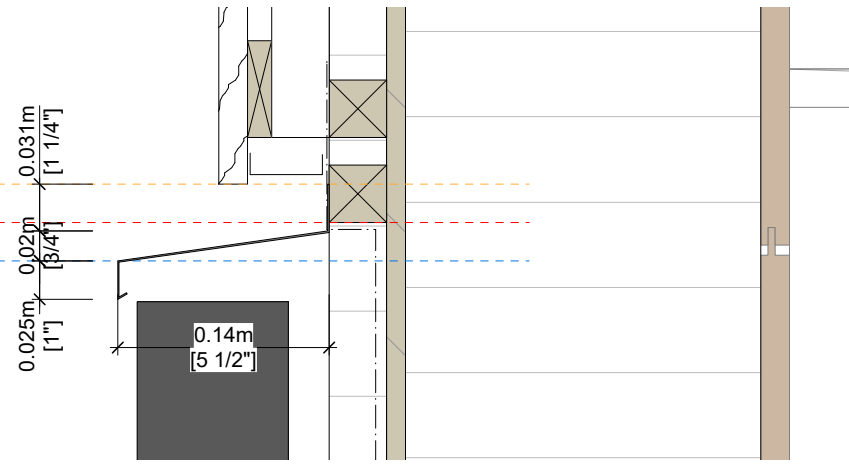


EAST elevation (greenhouse)
1:100



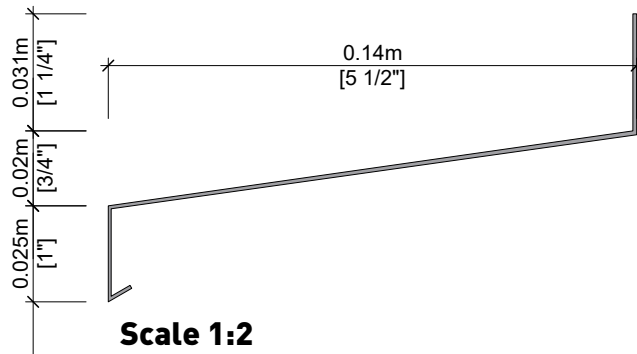
NORTH elevation

further north elevation

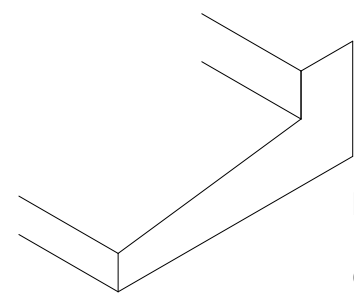


STANDART FLASHING (Type B)

framed house
slope same as greenhouse,
but shorter overall

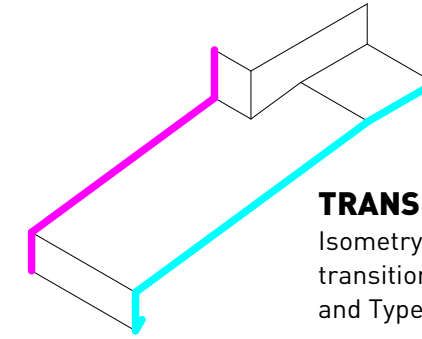


Scale 1:2



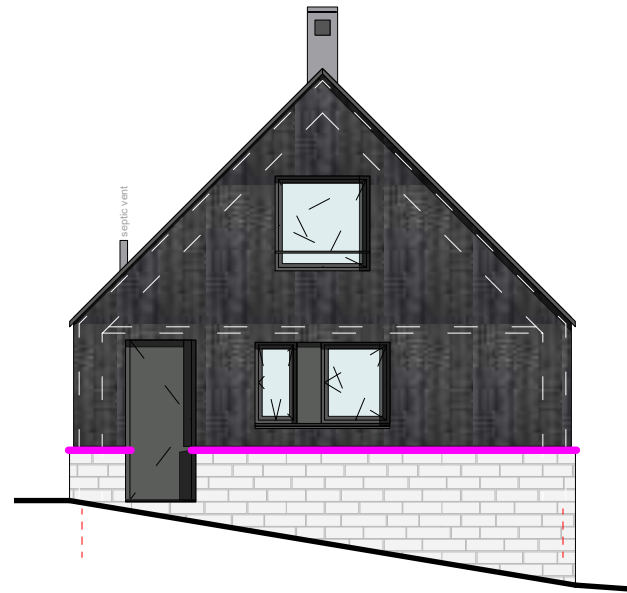
END OF FLASHING ?

Isometry of left and right of
door in west elevation and
north elevation by entry door

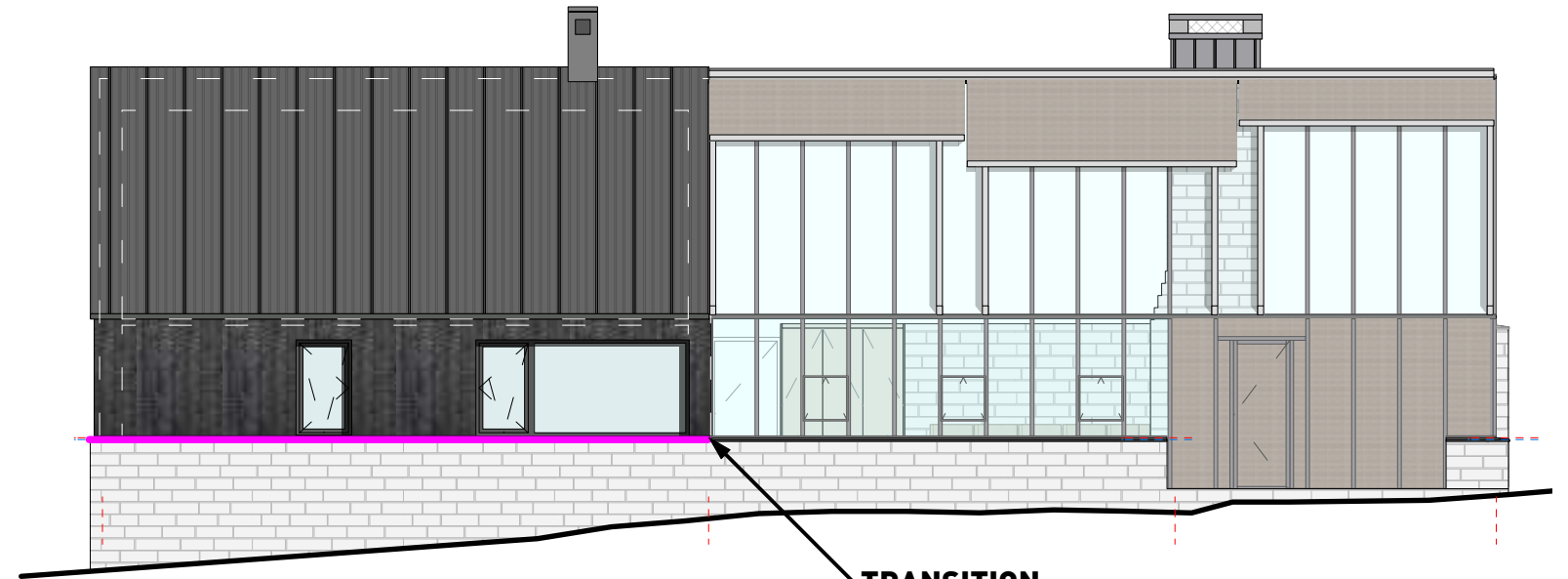


TRANSITION

Isometry showing the
transition between Type A
and Type B flashing

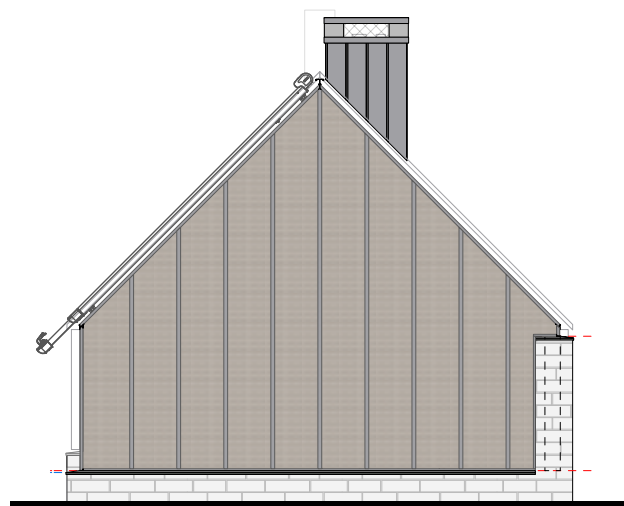


WEST elevation



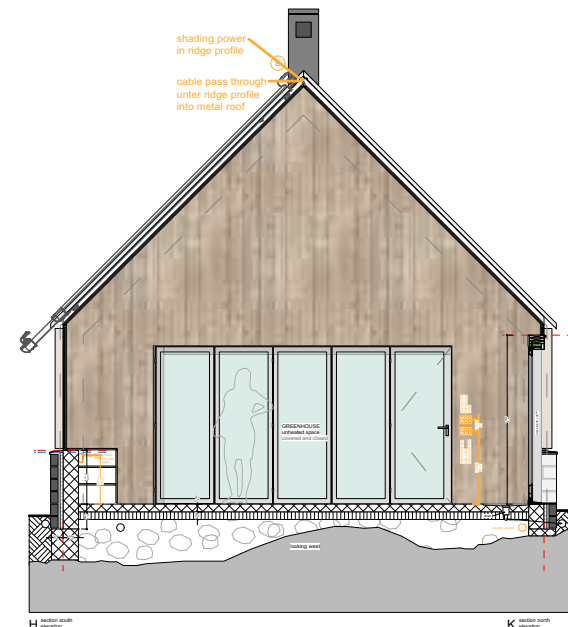
SOUTH elevation

TRANSITION



EAST elevation (greenhouse)

1:100

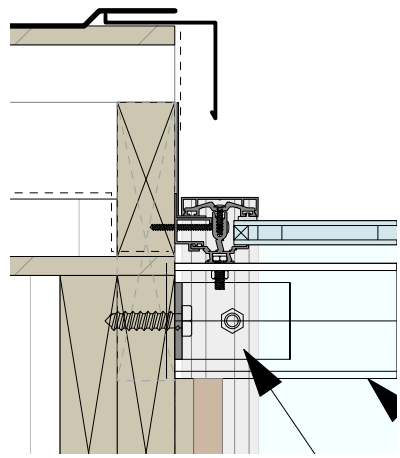


EAST elevation (insulated house)

The full eastern elevation is enclosed
in the unheated greenhouse.

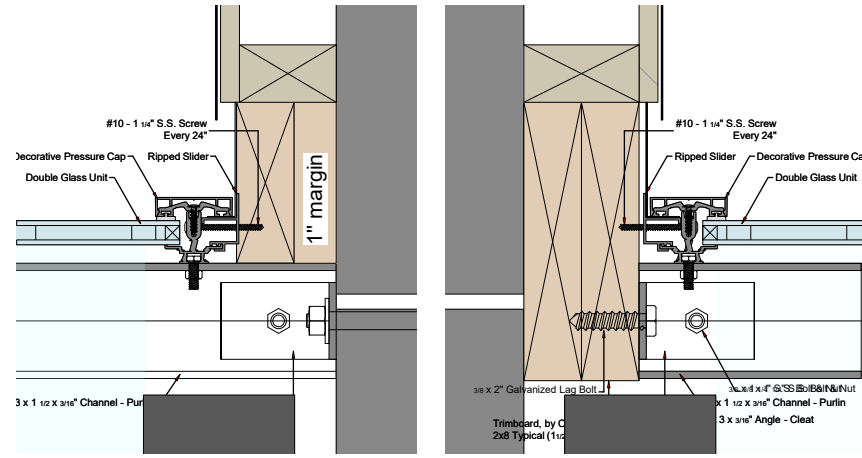


NORTH elevation



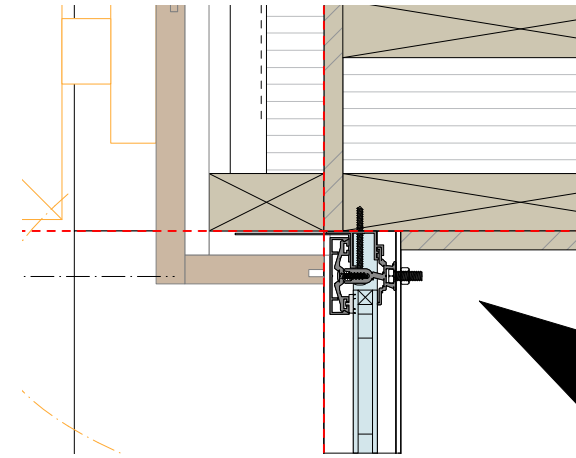
DETAIL SECTION B (Type C)

roof attachment
L-shaped flashing along
2x4 and under cap



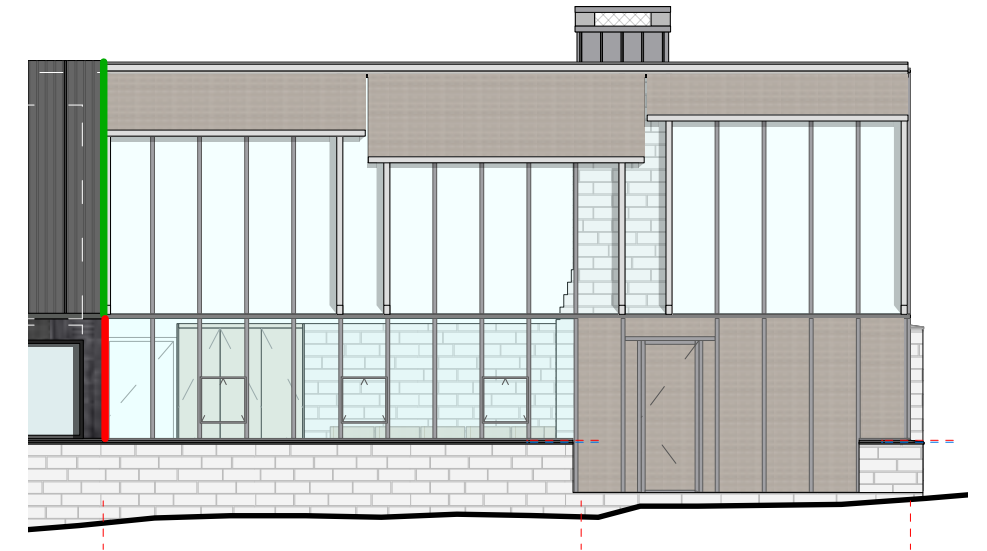
DETAIL SECTION C (Type C)

roof attachment
L-shaped flashing along
2x4 and under cap

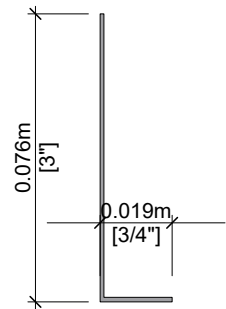


DETAIL PLAN (Type C)

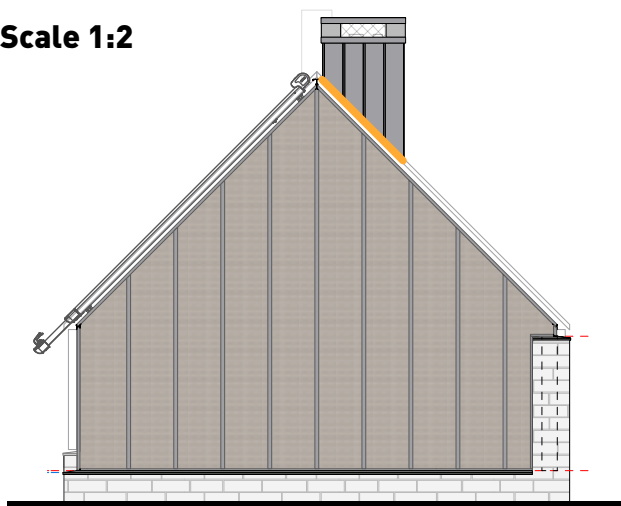
wall attachment
L-shaped flashing along
timber and under cap



SOUTH elevation

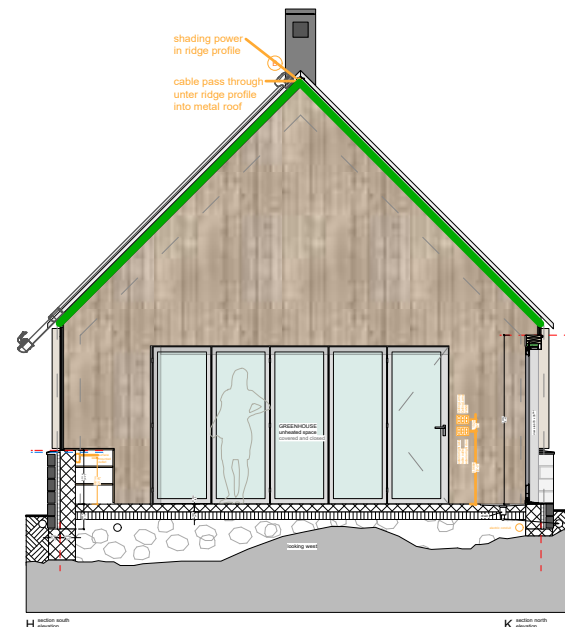


Scale 1:2



EAST elevation (greenhouse)

1:100

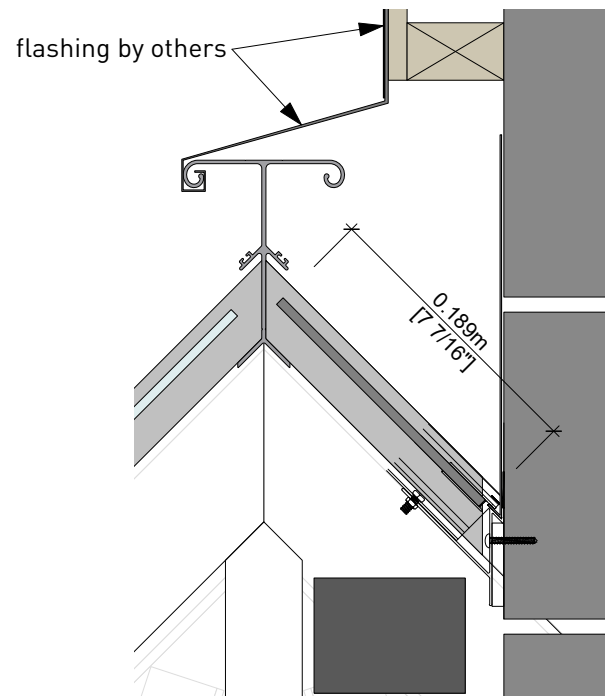


EAST elevation (insulated house)

The full eastern elevation is enclosed
in the unheated greenhouse.

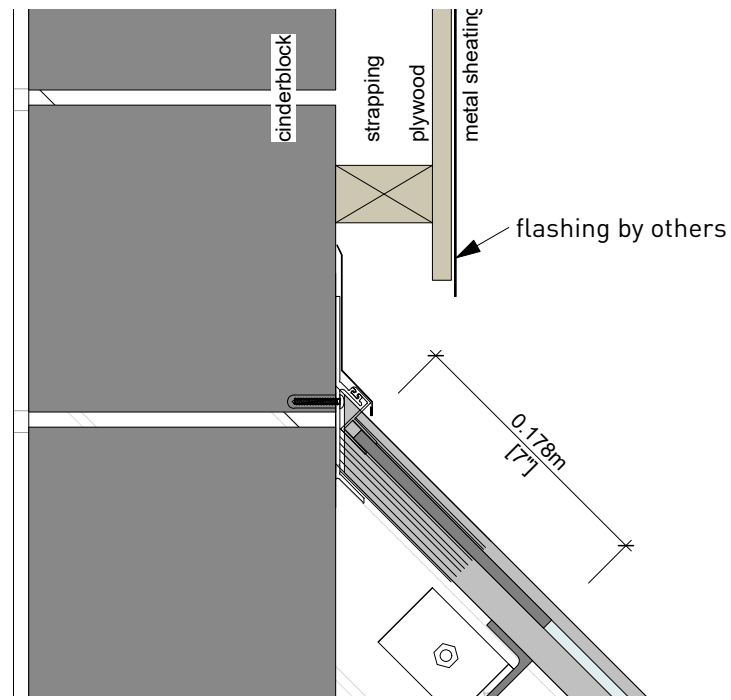


NORTH elevation



DETAIL SECTION J-I (Type D)

roof attachment
Flashing from glass profile
up cinderblock under
chimney flashing by others

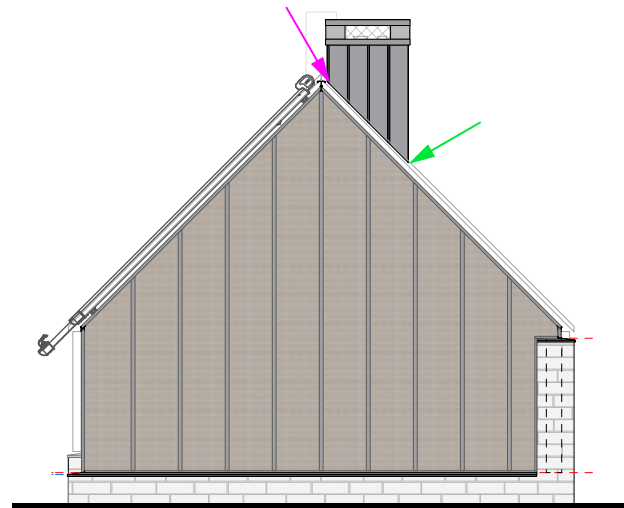


DETAIL SECTION J-I (Type E)

roof attachment
Flashing from glass profile
up cinderblock under
chimney flashing by others

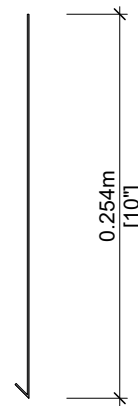


SOUTH elevation



EAST elevation (greenhouse)

1:100



**Type D
Scale 1:5**



NORTH elevation

Scale 1:3

2 **OUTLET double**

LEVITON Decora 15 Amp Tamper Resistant Duplex Outlet, Black Model # R55-T5325-0DE



\$ **SWITCH (REGULAR)**

LEVITON Decora 15 Amp Single-Pole AC Quiet Switch, Black Model # R65-05601-2ES



\$₃ Decora 15 Amp 3-Way Switch, Black Model # R65-05603-2ES

PLATE

LEVITON Decora 1/2/3-Gang Midway Nylon Wall Plate, Black Model # R55-0PJ26-00E



\$ **OUTLET SWITCH combo**

LEVITON Decora 15 Amp Commercial Grade Combination Single Pole Rocker Switch and Outlet, Black Model # T5625-E



2^{POP} **SWITCH (DIMMER)**

LEVITON Decora 600-Watt Single-Pole/3-Way Universal Rocker Slide Dimmer, Black Model # R15-DSL06-1LE



2^{USB} **OUTLET USB combo**

LEVITON 3.6A USB Dual Type A In-Wall Charger with 15 Amp Tamper-Resistant Outlets, Black Model # R05-T5632-0BE



\$_F **FAN SWITCH**

LUTRON Diva Fan Control and Light Switch for LEDs, CFLs, Incandescent and Halogen, Black Model # DVFSQ-LF-BL

Could not find exterior fan switch for screened porch



GFI **GFI COVER**

1-Gang Weatherproof Cover for FS/FD Boxes Model # WLRS2

other models welcome need to be gray or black, no clear plastic.



OUTLET BOX

masonry outlet box, 3pce in greenhouse along lake-side concrete wall. Mounted on wall directly wiring in aluminium tubing.

example on right --> choose something that looks as clean.



SAVETY

Smokedetectors & CO-detectors in black



EXTERIOR WALL LIGHT

HYPERIKON Rotatable 150-Watt Equivalent Integrated LED Black Outdoor IP65 Waterproof Wall Pack Light, 5000K Model #HyperWR40-50



ELECTRICAL LEGEND

- Exterior wall light
- CO detector
- smoke detector
- fan
- floor receptacle duplex
- ceiling light
- wall light
- outlet
- double outlet
- outlet 220V
- outlet GFI
- switch
- switch 3 way
- double outlet USB combo
- table pop-up outlet USB
- switch dimmable
- switch outlet combo
- power to blinds, 50W/each
- wind sensor by STOBAG
- Fan switch

CONCRETE FLOOR AND WOOD CEILING ARE FINISHED SURFACES. DO NOT DRILL, DO NOT TAPE!