

2014

Techstyle Haus Project Drawings

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SOLAR DECATHLON / EUROPE 2014
PROJECT DRAWINGS 7 / NOVEMBER 2014



[INS] TEAM INSIDE/OUT
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TECHSTYLE HAUS. PROJECT DRAWINGS.



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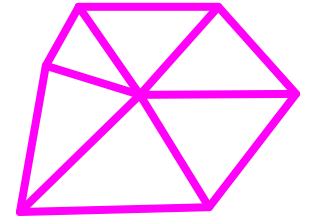
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GE-101

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




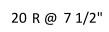
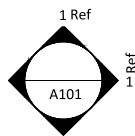













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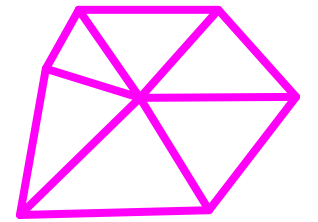
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 Claire Watson
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 Grace Wong

GENERAL SYMBOLS

	KEY NOTE TAG		DETAIL ITEM		WALL TAG
	SECTION HEAD		LIGHTING FIXTURE		STAIR TAG
	ELEVATION TAG		DOOR TAG		SPOT ELEVATION
	CEILING TAG		EQUIPMENT TAG		WINDOW TAG
	CASEWORK TAG		ELECTRICAL FIXTURE TAG		CENTERLINE
			FLOOR TAG		NORTH ARROW
			ROOM TAG NUMBER		
			CALLOUT HEAD		
			REVISION TAG		

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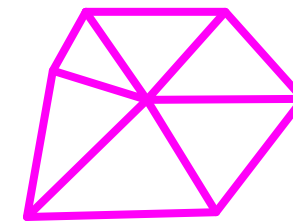
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GE-201



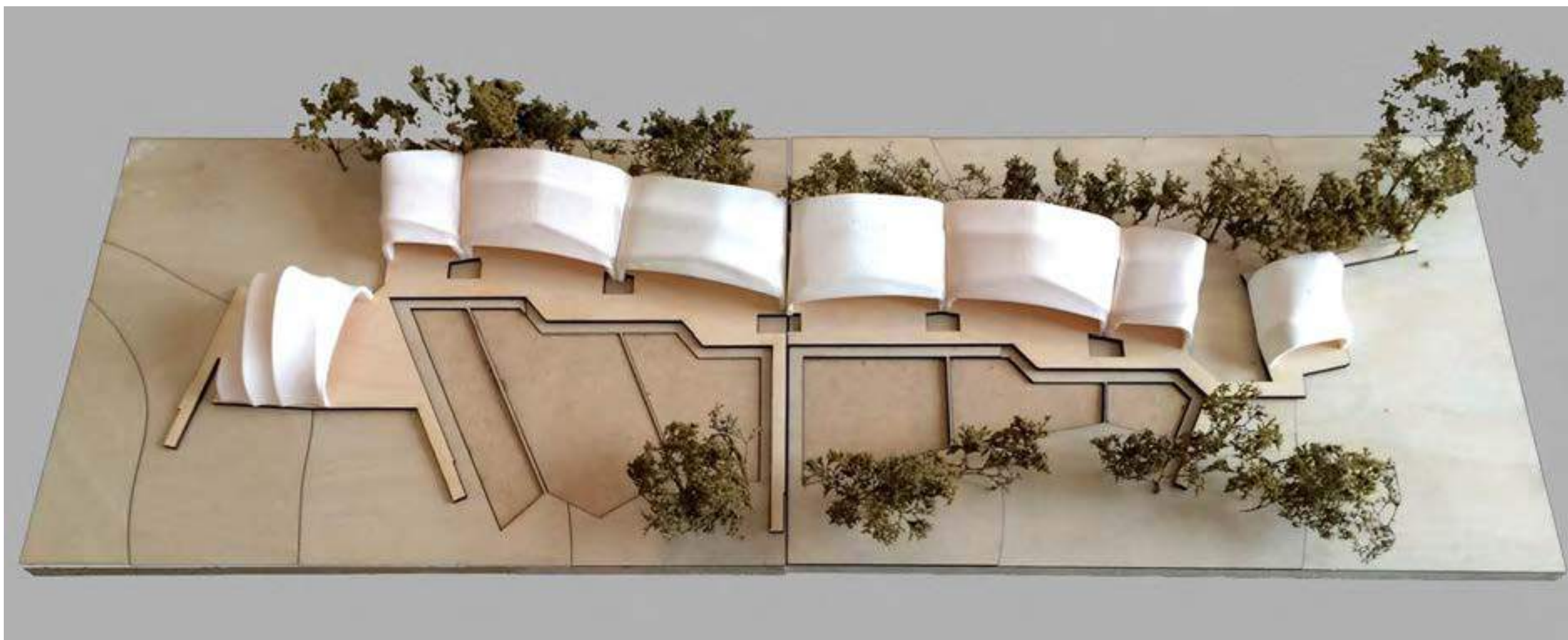
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② UNIT AGGREGATION MODEL



① UNIT AGGREGATION ELEVATION

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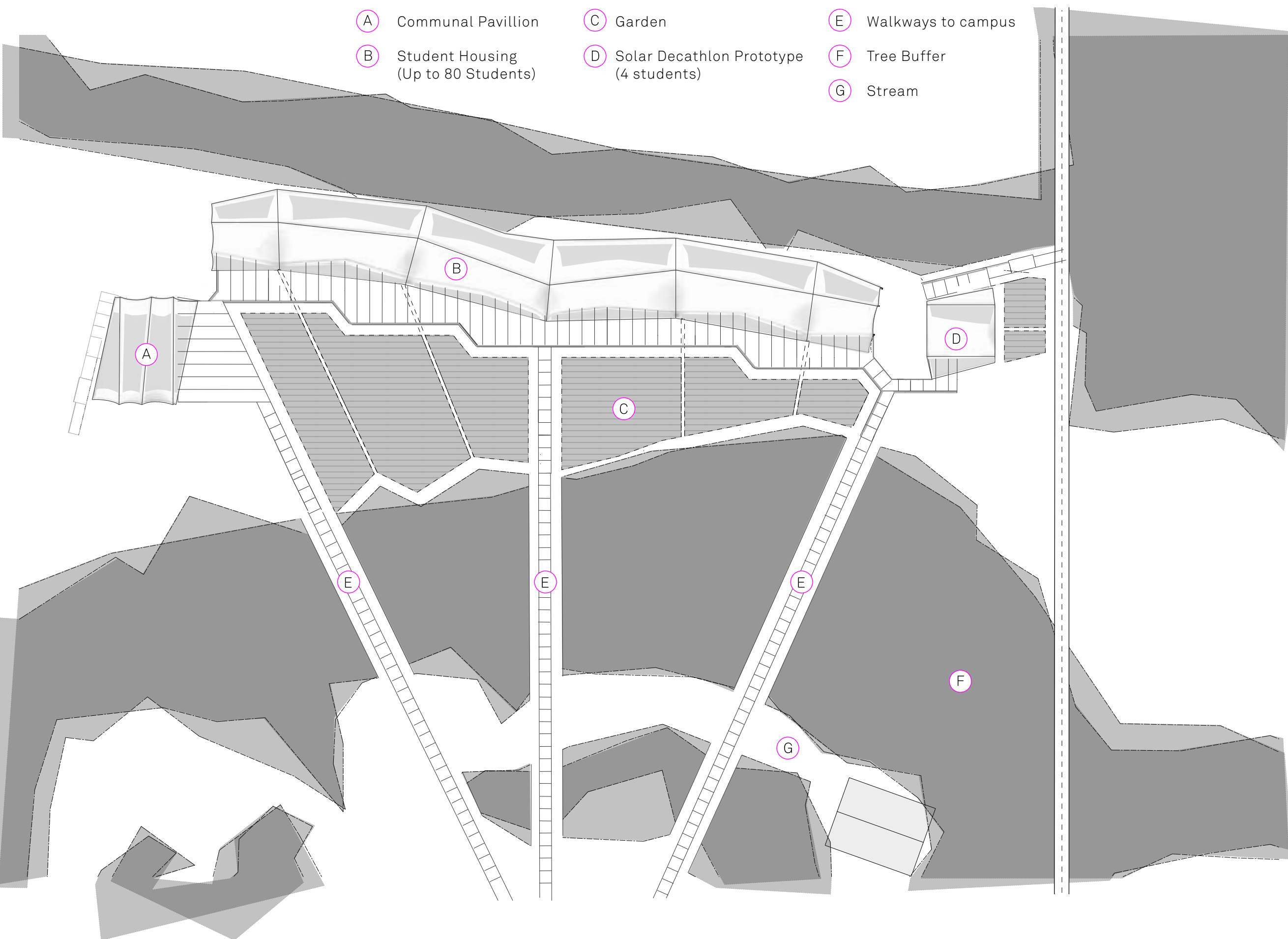
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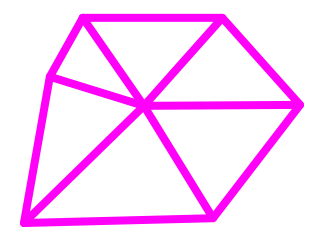
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GE-310

- (A) Communal Pavillion
- (B) Student Housing (Up to 80 Students)
- (C) Garden
- (D) Solar Decathlon Prototype (4 students)
- (E) Walkways to campus
- (F) Tree Buffer
- (G) Stream



1 ROOF PLAN-BOISBUCHET CLUSTER HOUSING



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GE-311

A Communal Pavillion

B Visitor Housing
(Up to 80 Students)

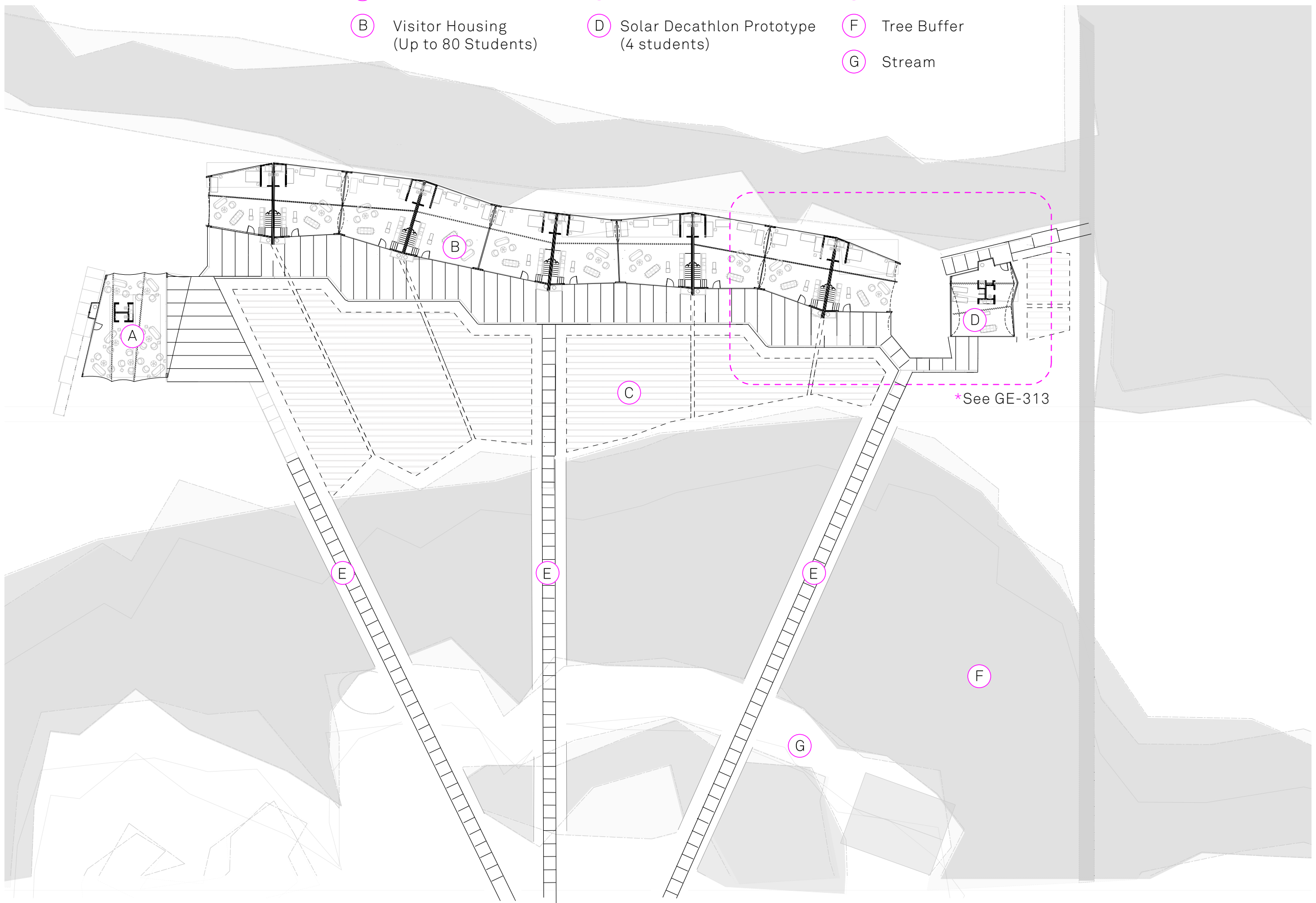
C Garden

D Solar Decathlon Prototype
(4 students)

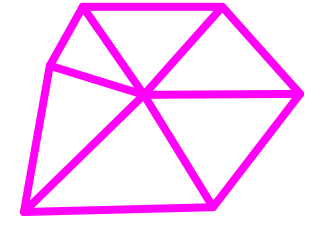
E Walkways to campus

F Tree Buffer

G Stream



*See GE-313



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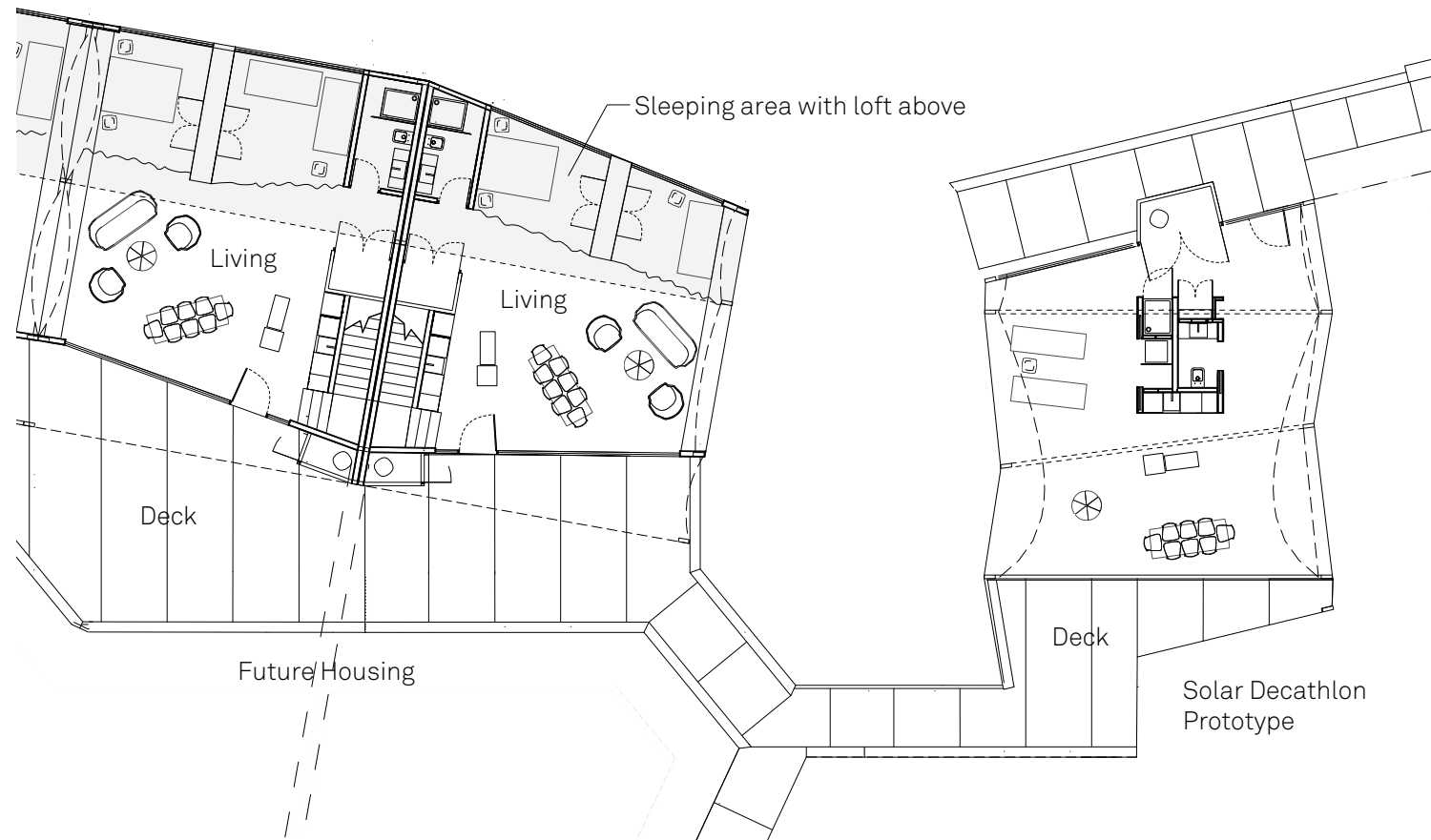
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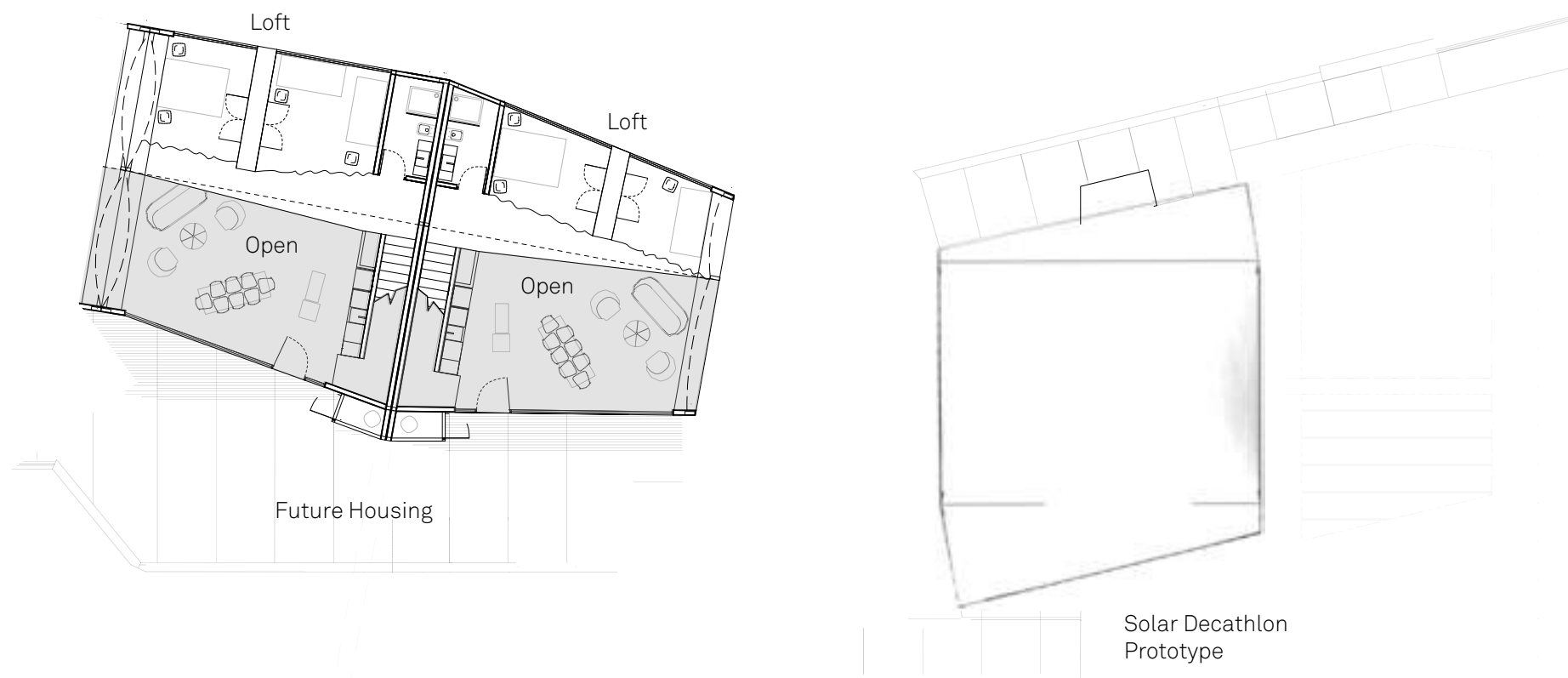
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① FLOOR PLAN- BOISBUCHET CLUSTER HOUSING

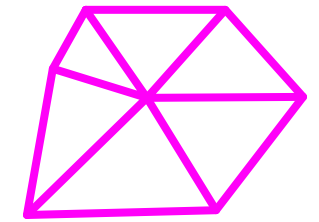
GE-312



1 FIRST FLOOR PLAN



2 SECOND FLOOR PLAN



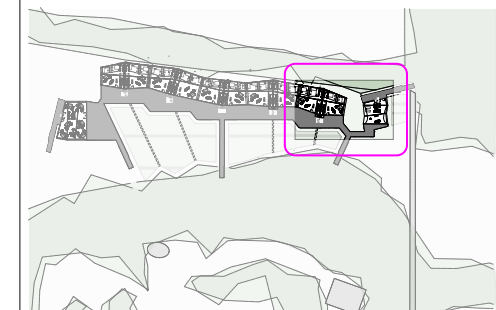
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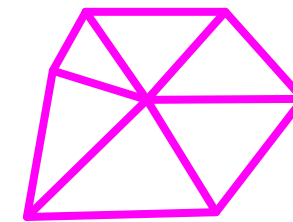
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GE-313



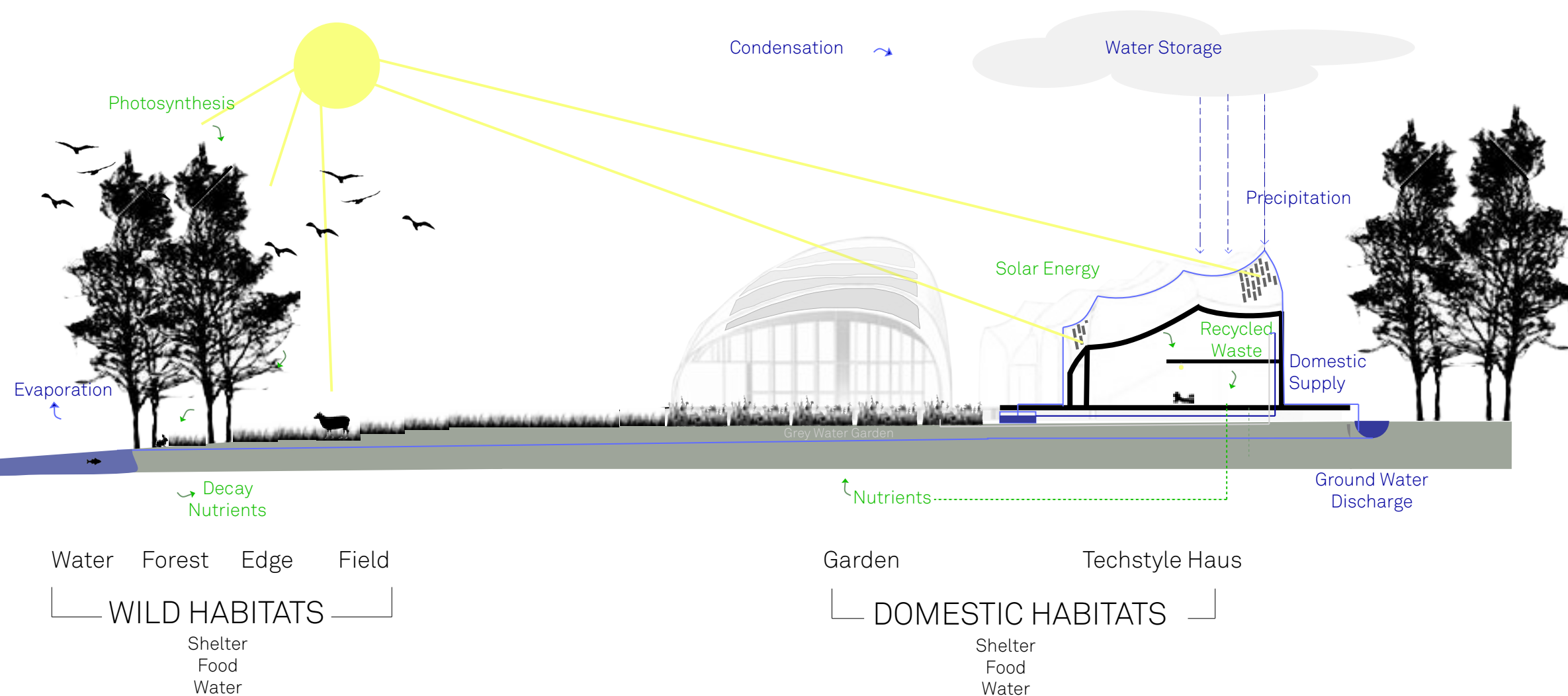
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1

SITE SECTION: SYSTEM DIAGRAM

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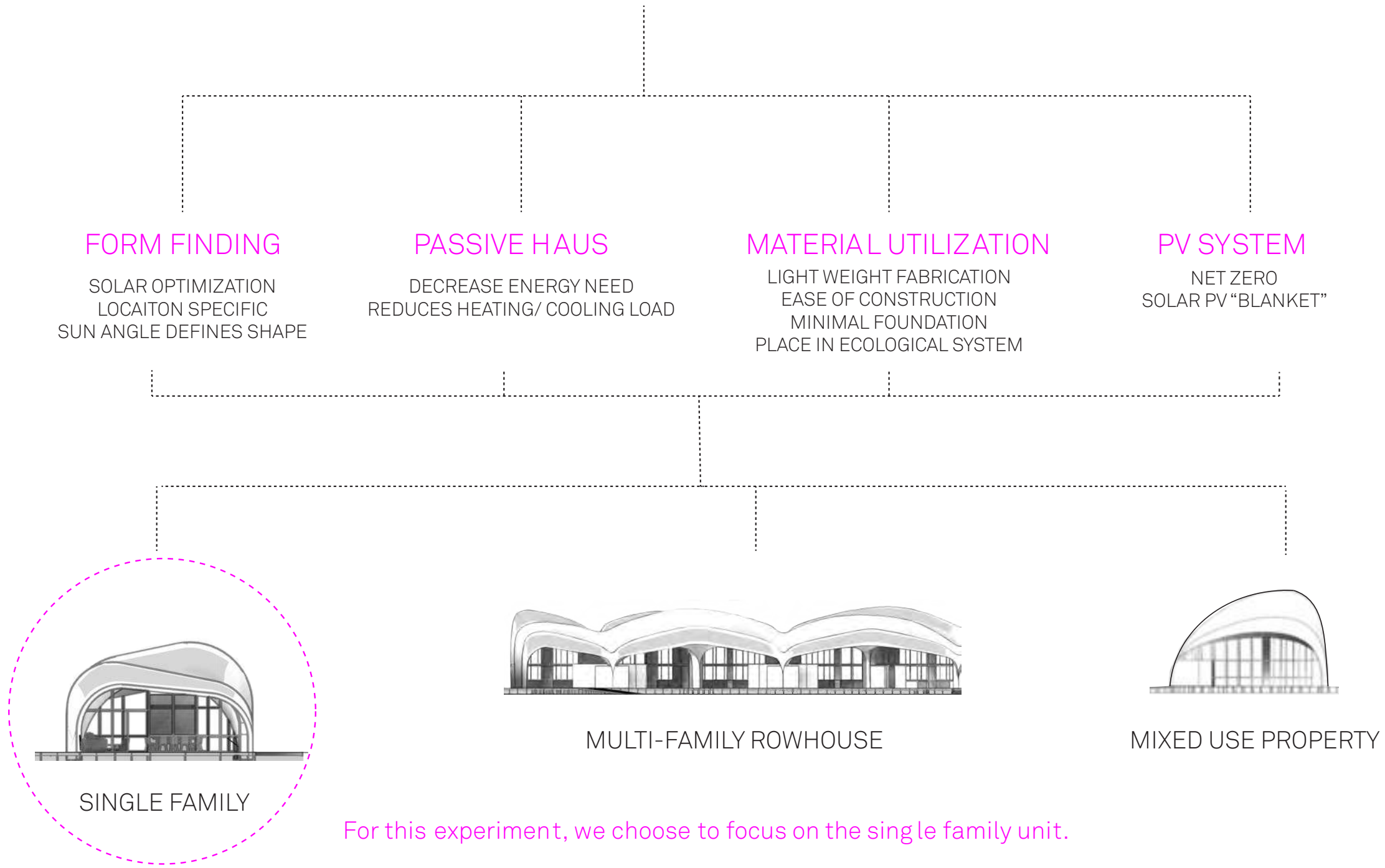
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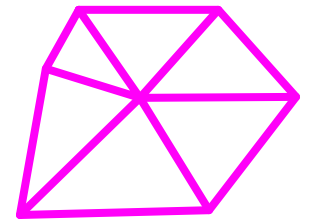
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GE-314

DESIGN A NET ZERO SOLAR HOUSE FOR A NEW RURAL LANDSCAPE



For this experiment, we choose to focus on the single family unit.



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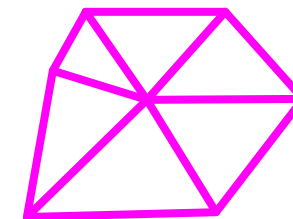
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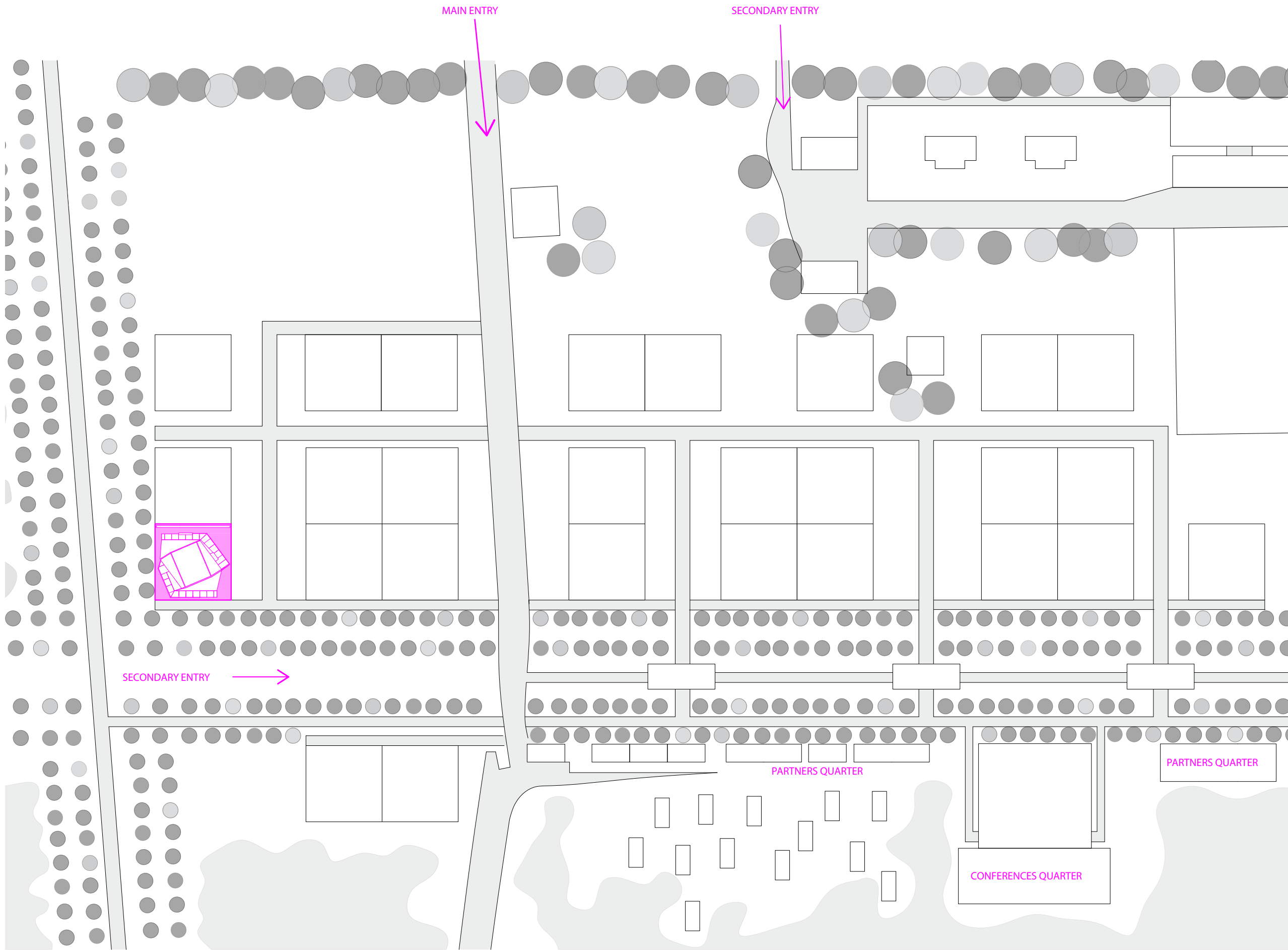
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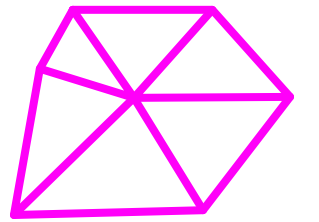
SCALE: N/A

GE-401





1 SOLAR VILLAGE PLAN | TECHSTYLE HAUS - SITE C



**TECHSTYLE
HAUS.**

INSIDE OUT

BROWN UNIVERSITY
75 Waterman Street
Providence, RI 02906
United States
+1-401-863-1000

FACHHOCHSCHULE ERFURT
Altonaer Straße 25
99085 Erfurt
Germany
+49-361-6700-443

**RHODE ISLAND SCHOOL
OF DESIGN**
2 College Street
Providence, RI 02903
United States
+1-401-454-6100

STAMP

DRAWN BY: Jamie Graham

CHECKED BY: Jonathan Knowles

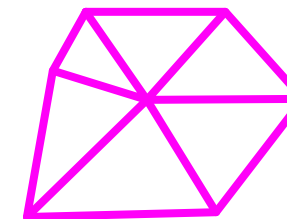
STATUS: Deliverable #7

DATE: 3 November, 2014

SCALE: 1:1000



AR-001



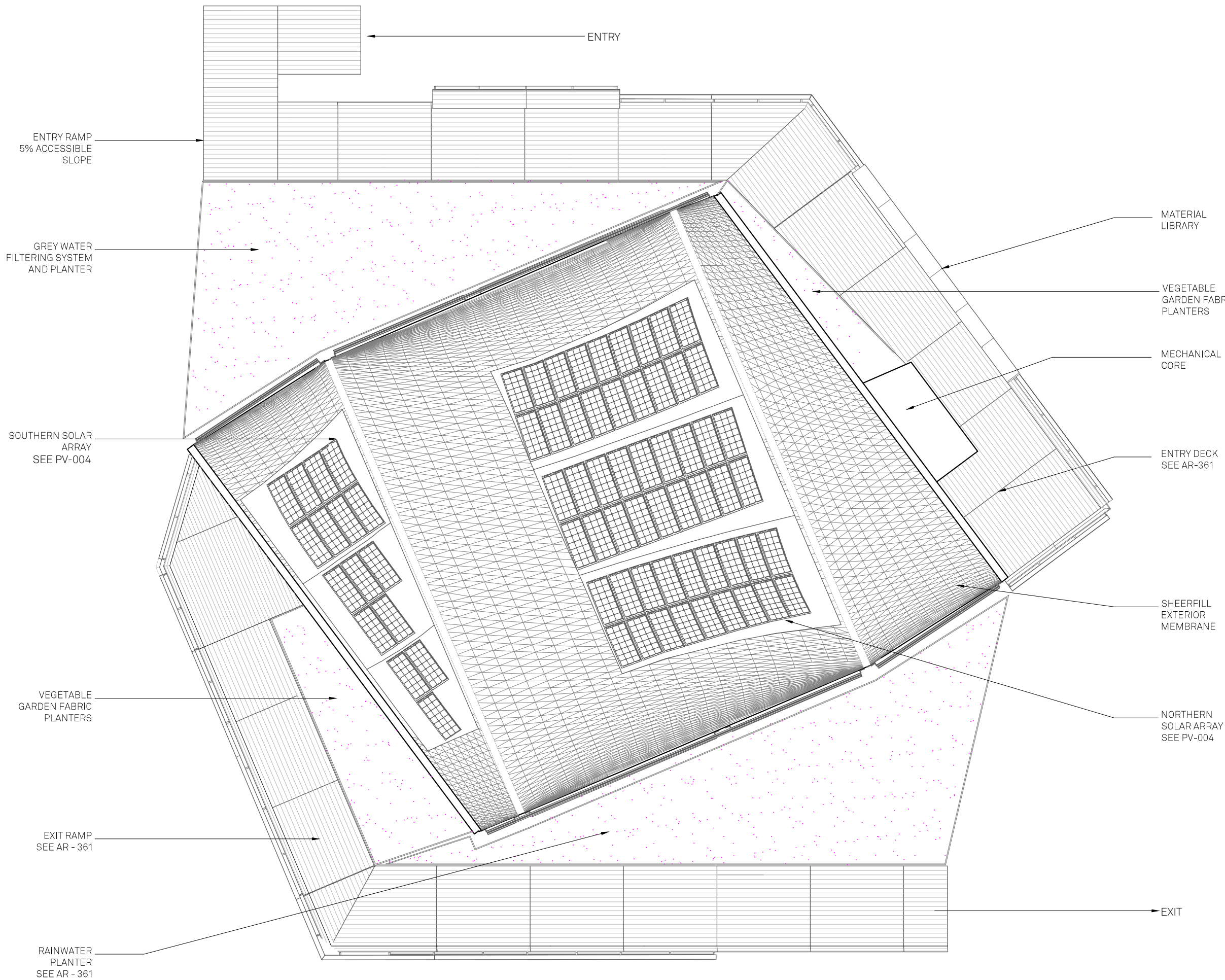
TECHSTYLE HAUS.

INSIDE OUT

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1 SITE PLAN

STAMP

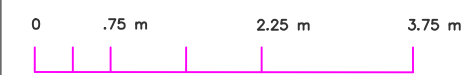
DRAWN BY: Jamie Graham

CHECKED BY: Jonathan Knowles

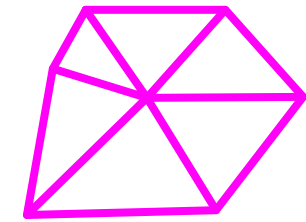
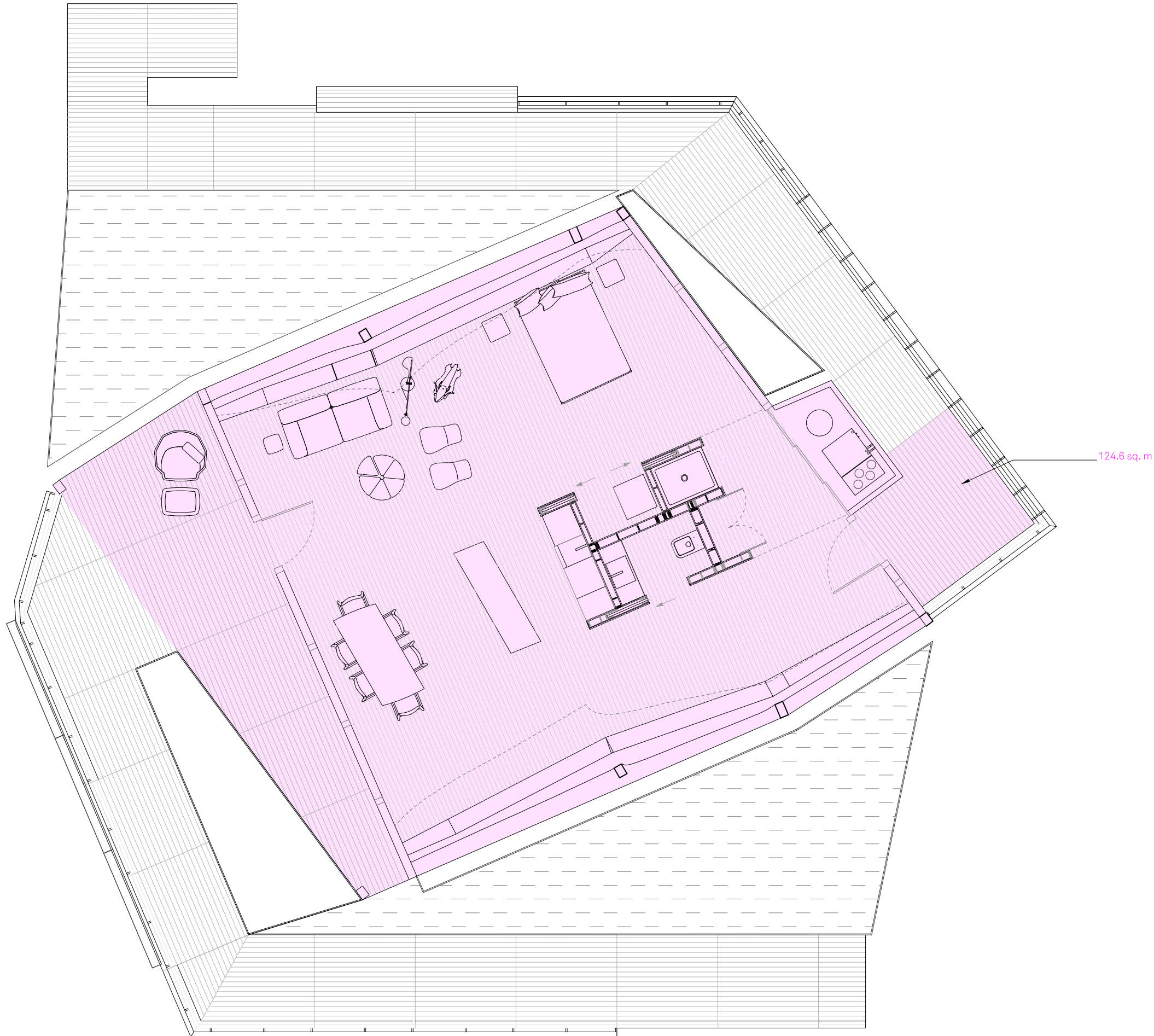
STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: 1:75



AR-002



**TECHSTYLE
HAUS.**

INSIDE OUT

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OF DESIGN**
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Providence, RI 02903
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STAMP

DRAWN BY: Jamie Graham

CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

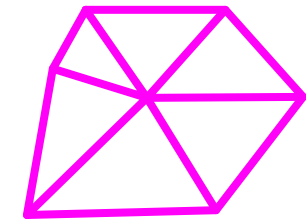
DATE: 03 November 2014

SCALE: 1:75



1 ARCHITECTURAL FOOTPRINT

AR-014



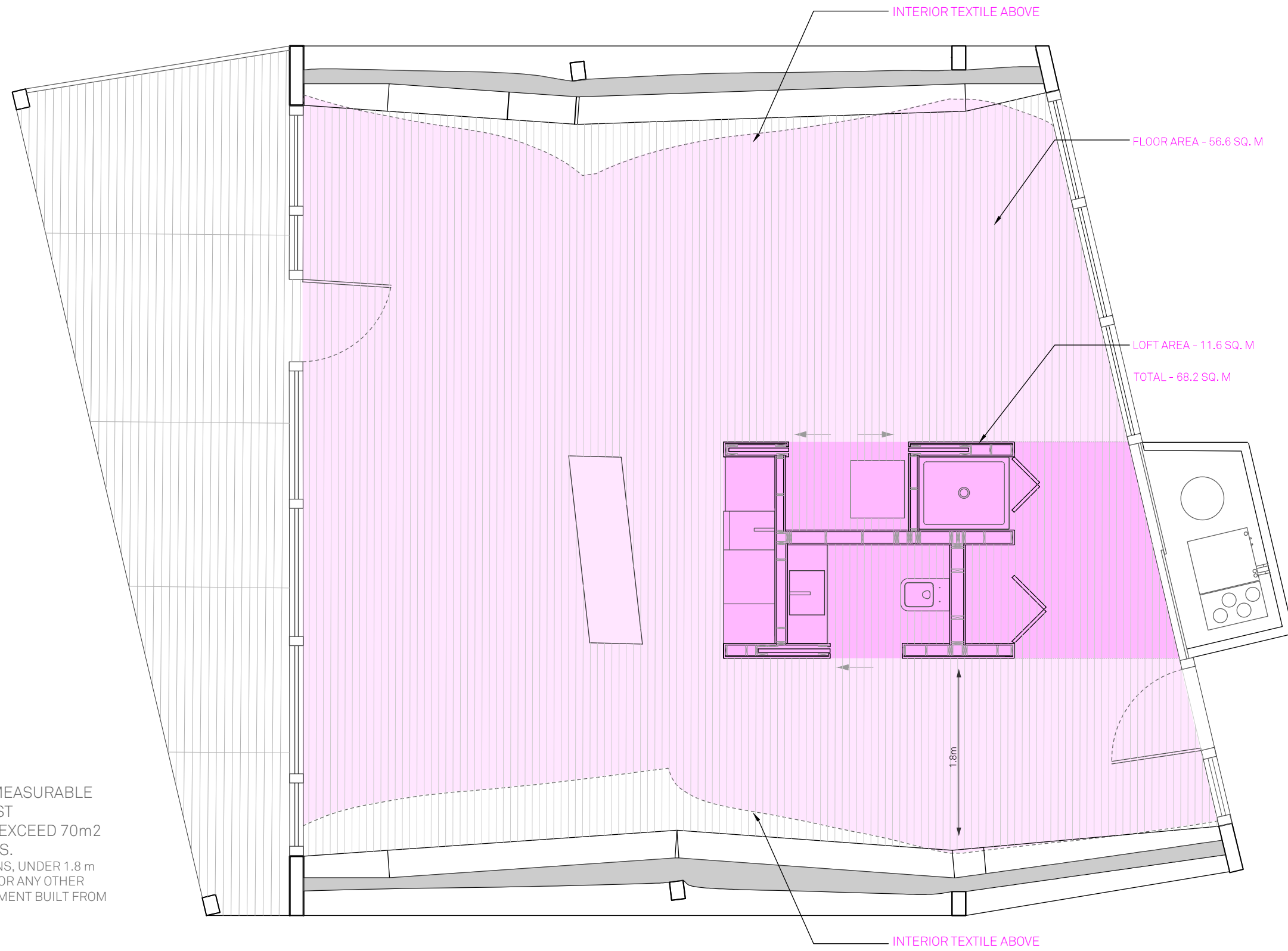
TECHSTYLE HAUS.

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NOTES:

AS PER RULE 6.3, THE MEASURABLE AREA SHALL BE AT LEAST 45 m², BUT SHALL NOT EXCEED 70m² FOR ONE STORY HOUSES. (EXCLUDING WALLS, COLUMNS, UNDER 1.8 m HIGH SPACES, AND CLOSETS OR ANY OTHER STORAGE OR TECHNICAL ELEMENT BUILT FROM FLOOR TO CEILING)

1 MEASURABLE AREA (USABLE AT 2.13m)

STAMP

DRAWN BY: Jamie Graham

CHECKED BY: Jonathan Knowles

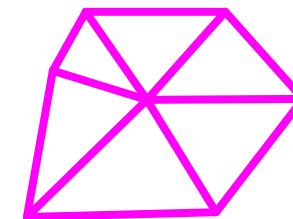
STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: 1:50



AR-017



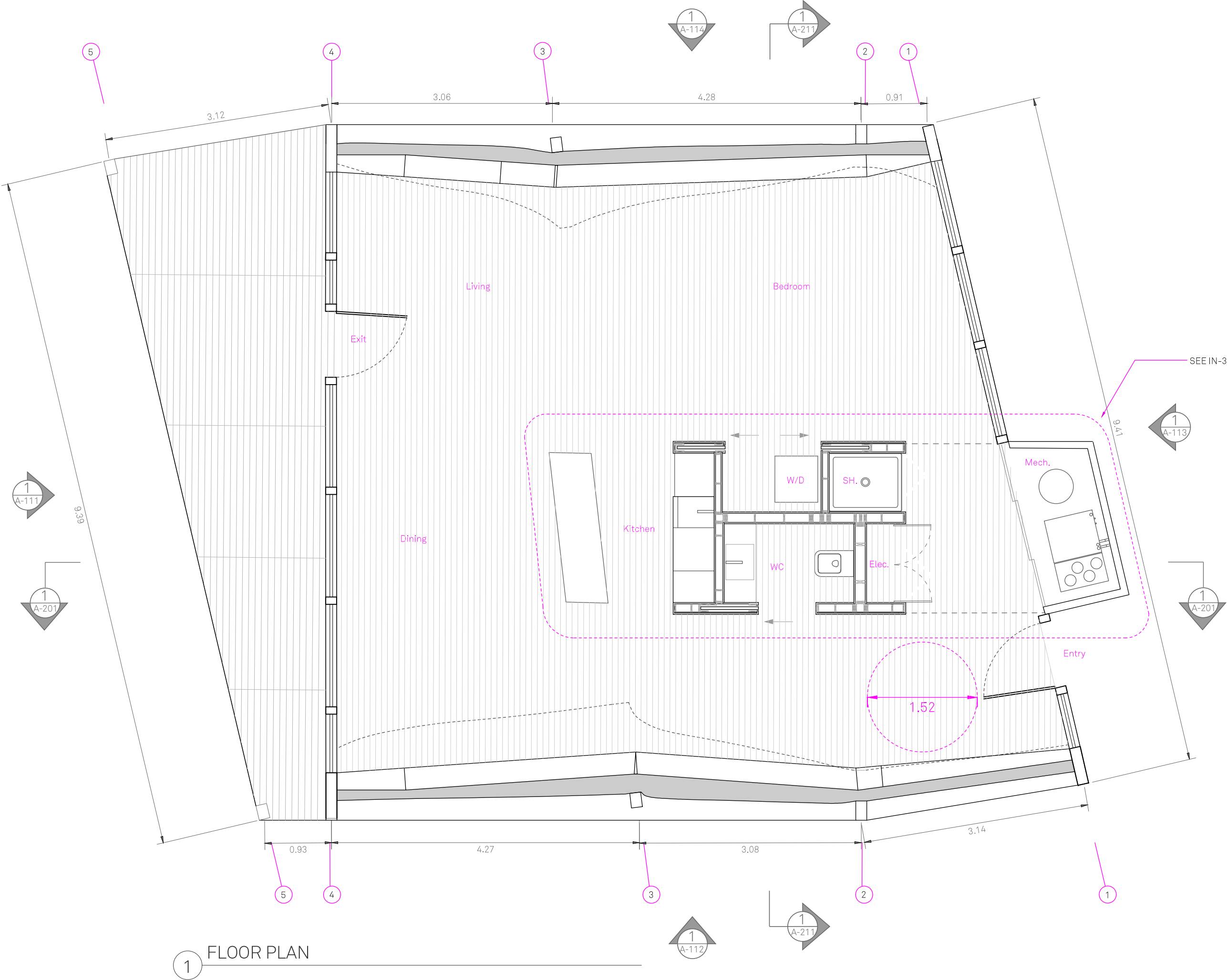
TECHSTYLE HAUS.

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1 FLOOR PLAN

STAMP

DRAWN BY: Jamie Graham

CHECKED BY: Jonathan Knowles

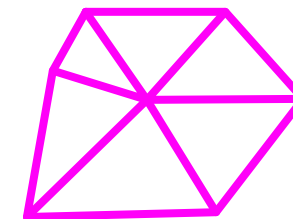
STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: 1:50



AR-021



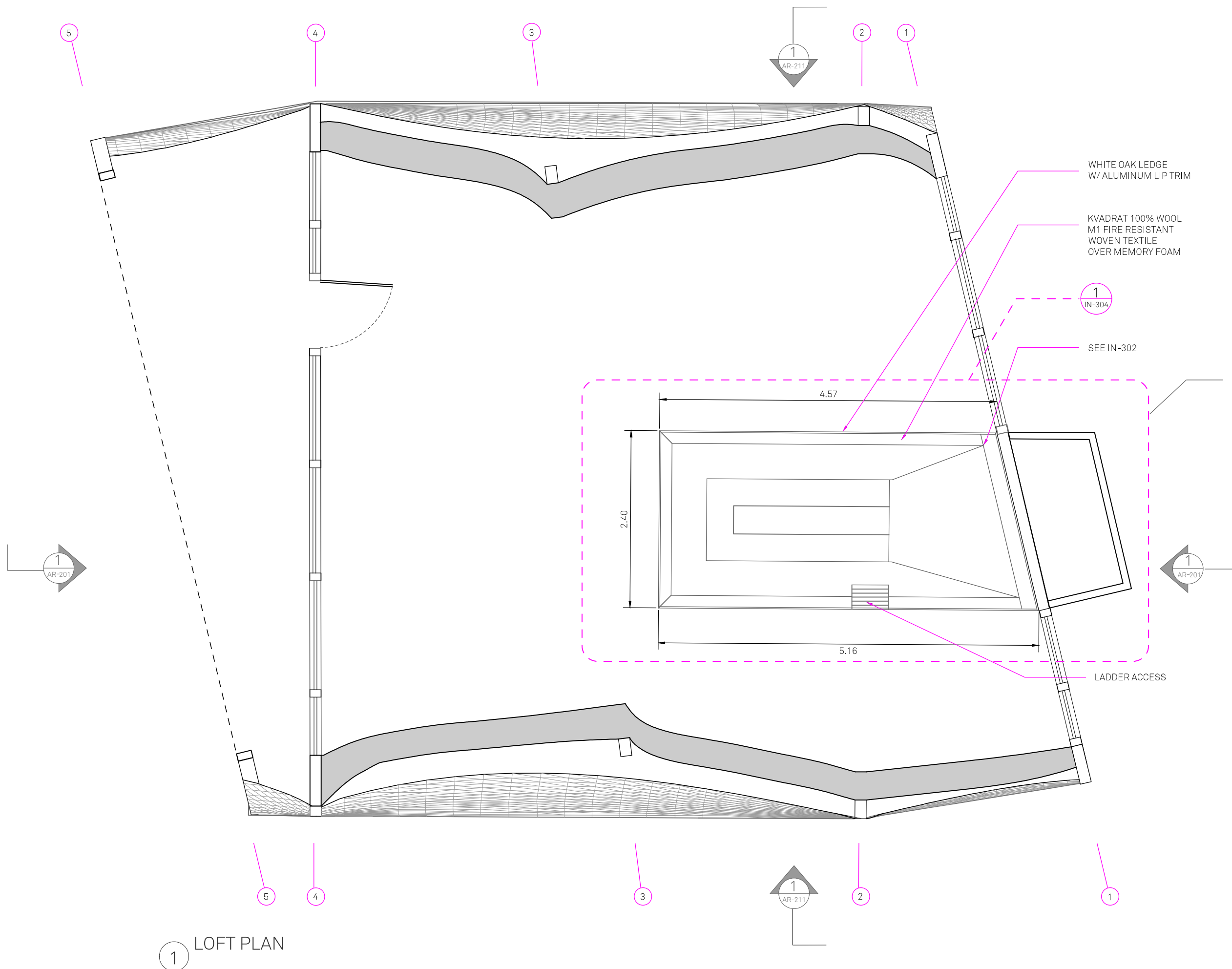
TECHSTYLE HAUS.

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1 LOFT PLAN

STAMP

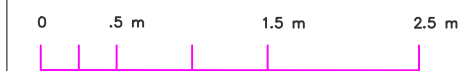
DRAWN BY: Jamie Graham

CHECKED BY: Jonathan Knowles

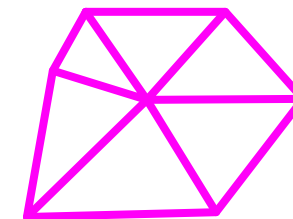
STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: 1:50



AR-022



TECHSTYLE HAUS.

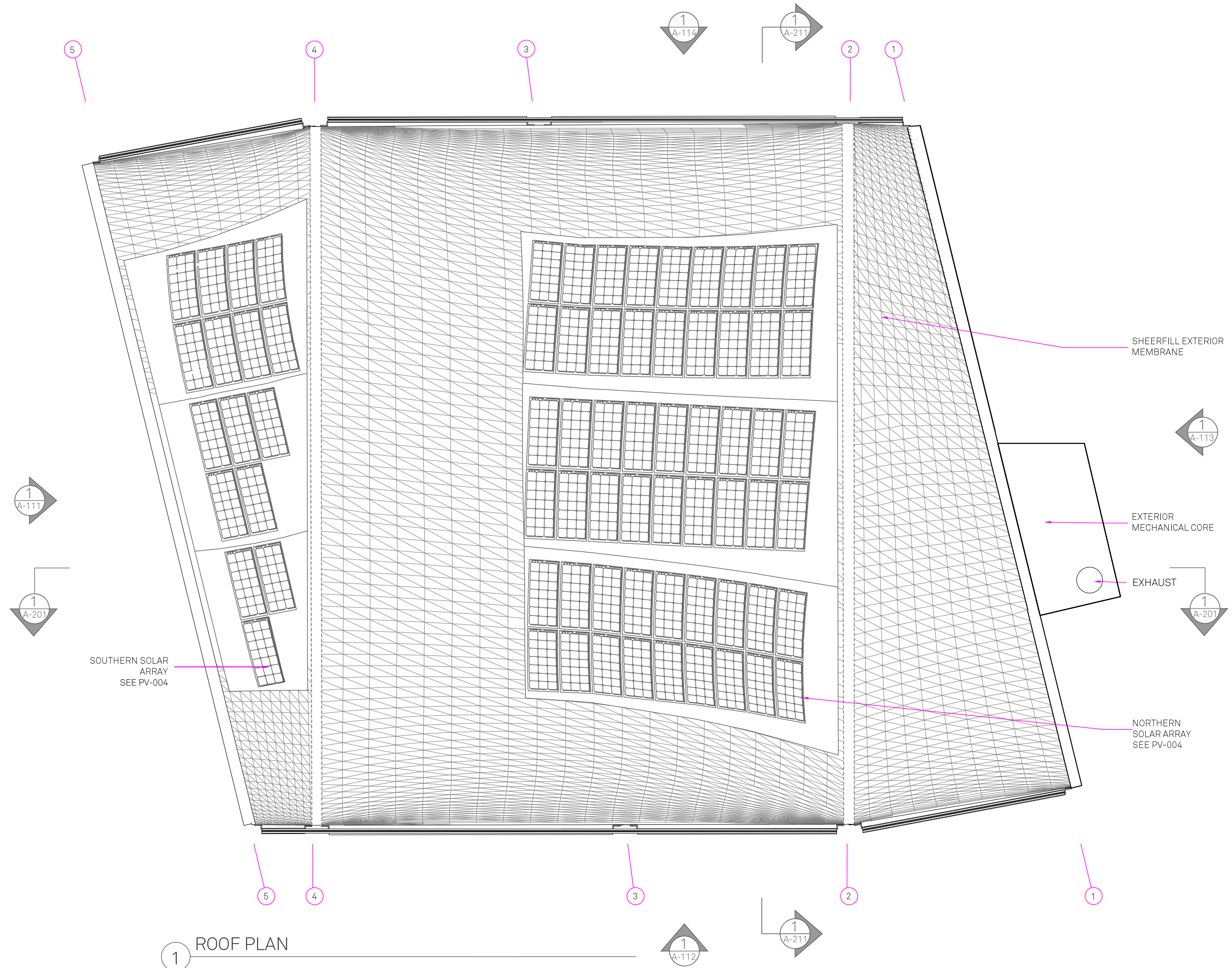
INSIDE OUT

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1 ROOF PLAN



SHEERFILL EXTERIOR
MEMBRANE

EXTERIOR
MECHANICAL CORE

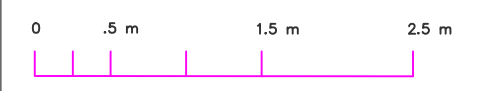
EXHAUST

NORTHERN
SOLAR ARRAY
SEE PV-004

SOUTHERN SOLAR
ARRAY
SEE PV-004

STAMP







DRAWN BY: Jamie Graham
CHECKED BY: Jonathan Knowles
STATUS: Deliverable #7
DATE: 03 November, 2014
SCALE: 1:50



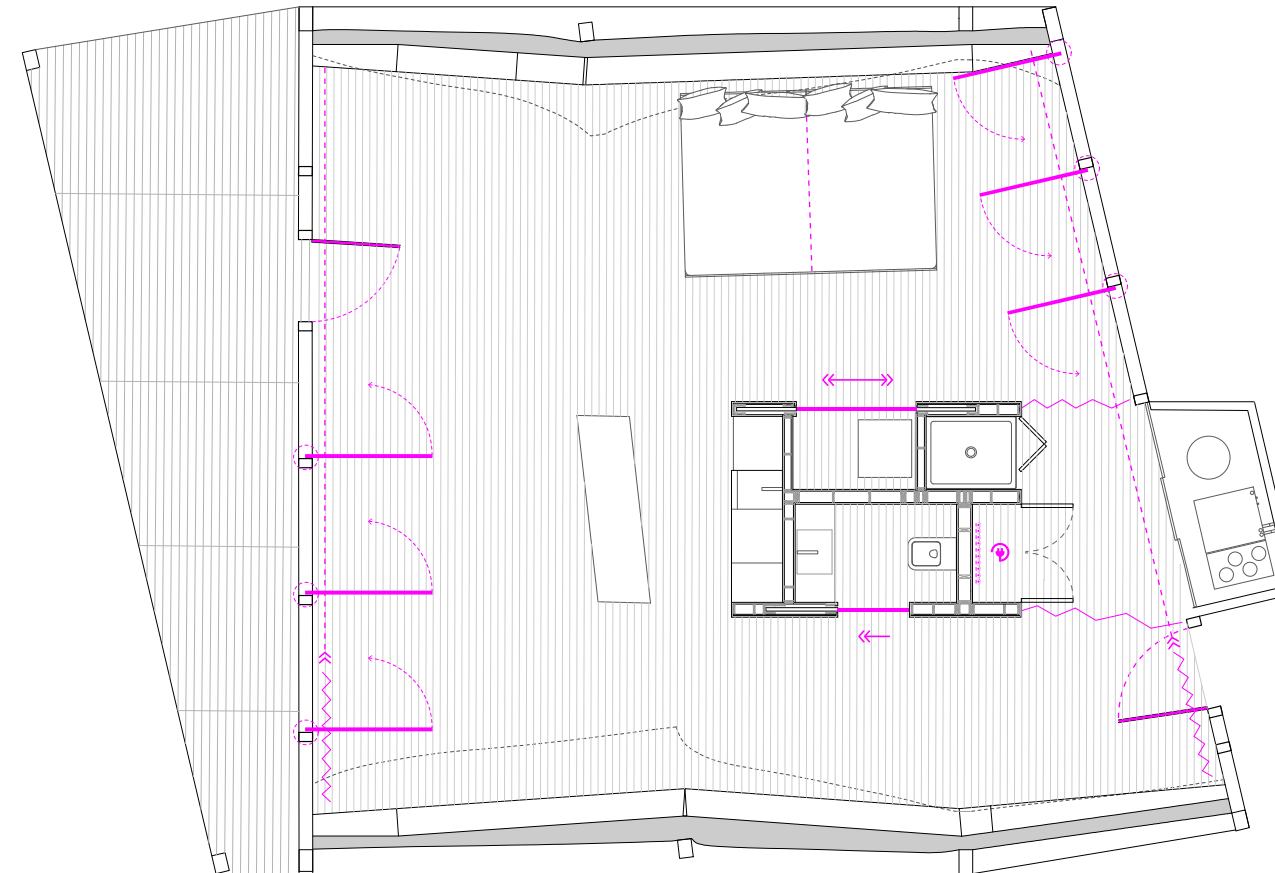
AR-031

SYSTEMS **OFF**



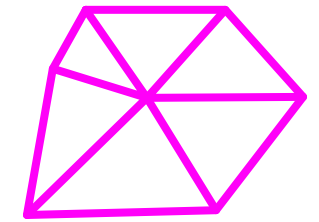
-  ADFORS
-  OUTLET CONTROL
-  MOVABLE CURTAIN
-  DOOR / WINDOW
-  LINE OF MOVEMENT
-  DIRECTION OF MOVEMENT

SYSTEMS **ON**



* NOTE:
ADFORS IS TO BE TURNED
ON FOR DISPLAY DURING
THE COMPETITION ONLY

1 RECONFIGURABLES



**TECHSTYLE
HAUS.**

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STAMP

DRAWN BY: Anya Sellsted

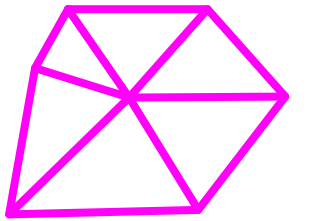
CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

DATE: 3 November, 2014

SCALE: VARIED

AR-041



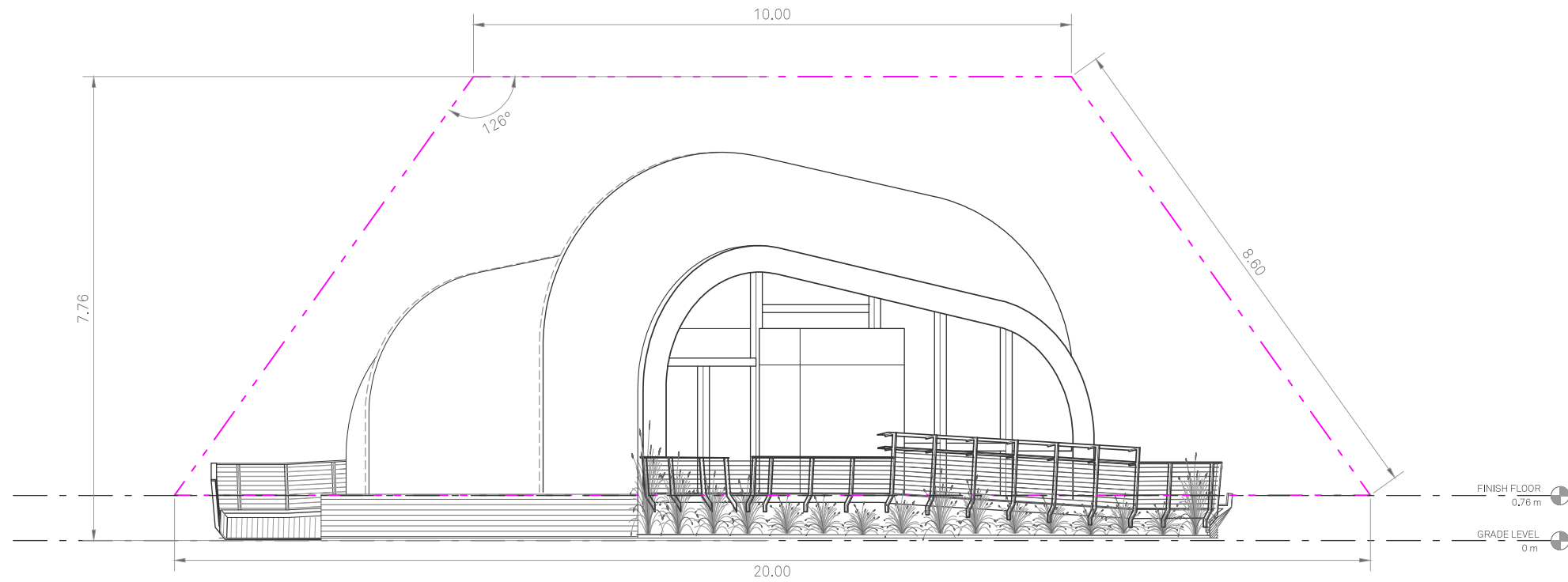
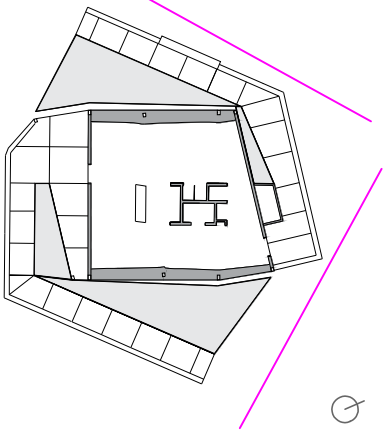
TECHSTYLE HAUS.

INSIDE OUT

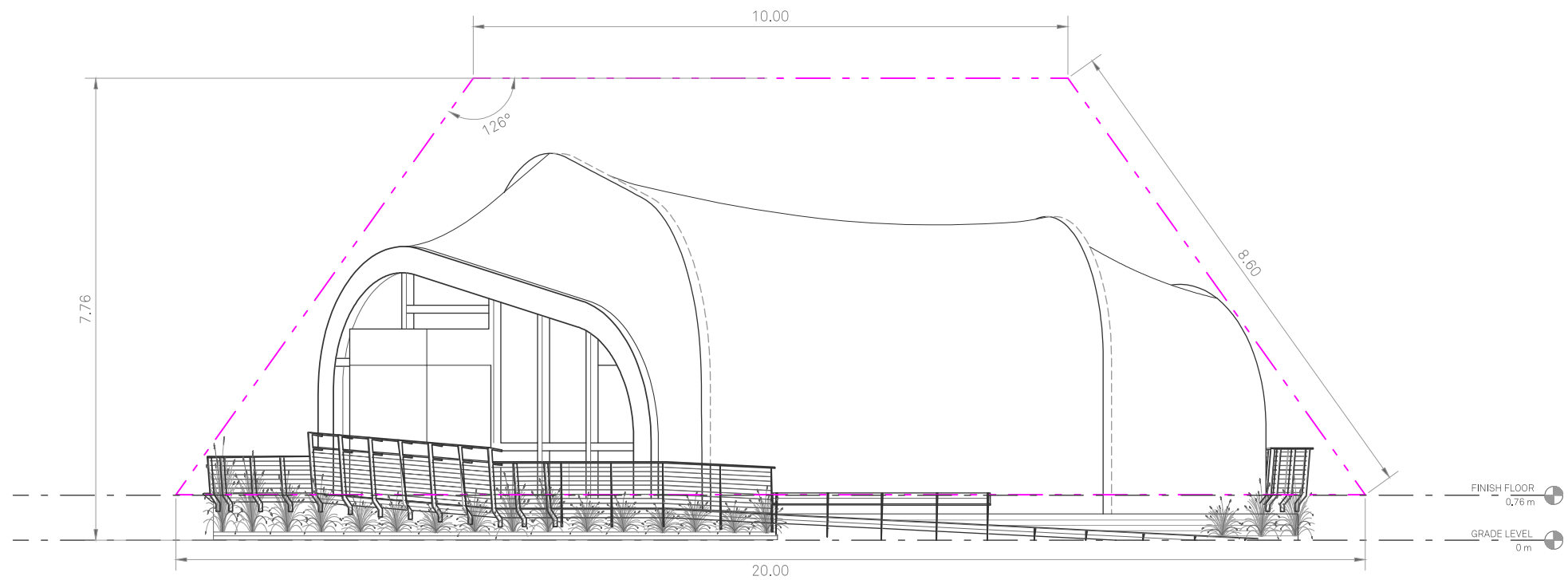
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1 SOLAR ENVELOPE DIAGRAM-NORTH EAST



2 SOLAR ENVELOPE DIAGRAM-NORTH WEST

STAMP

DRAWN BY: Marielle De Peña Mateo

CHECKED BY: Jonathan Knowles

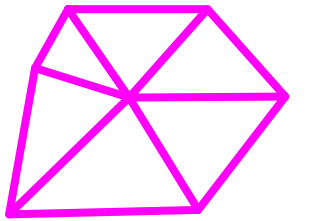
STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: 1:100



AR-051



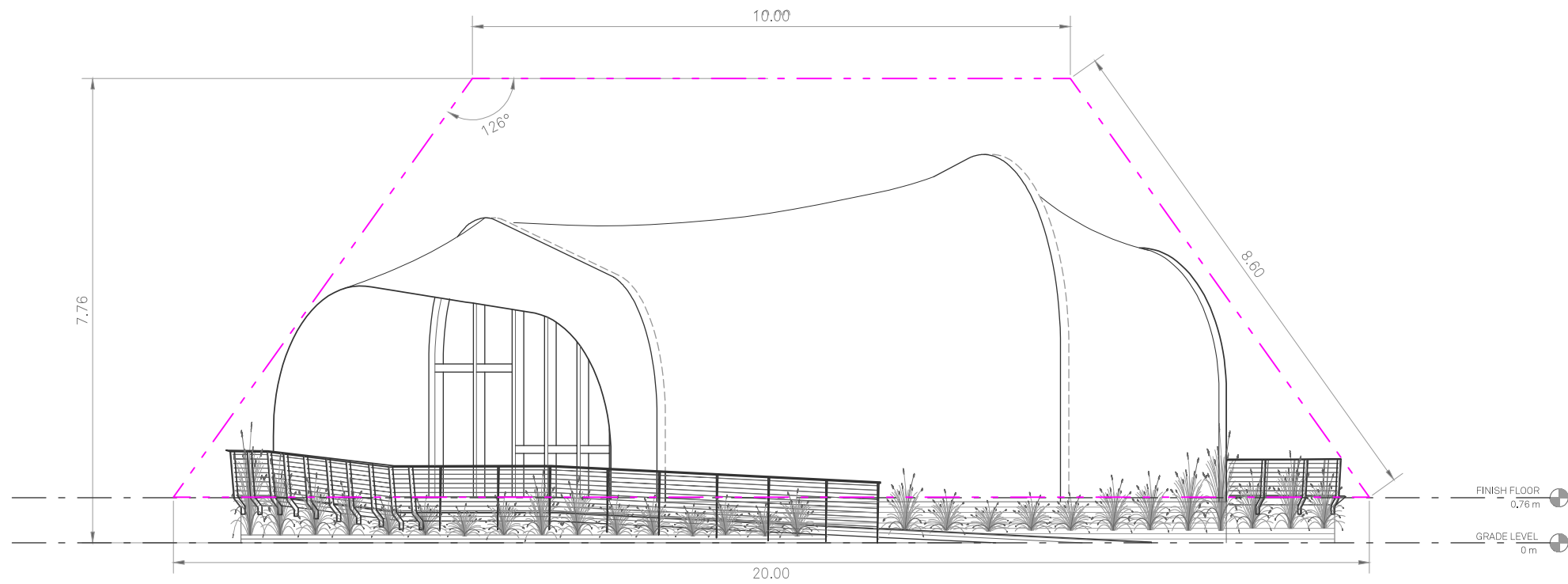
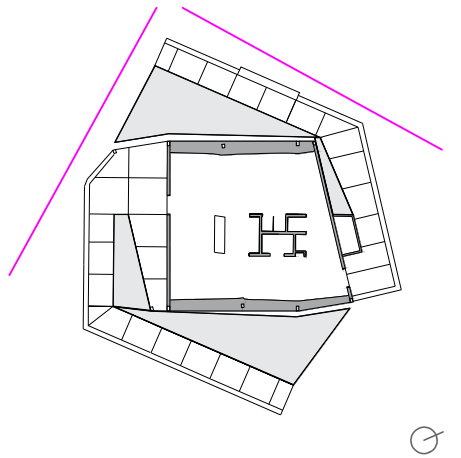
TECHSTYLE HAUS.

INSIDE OUT

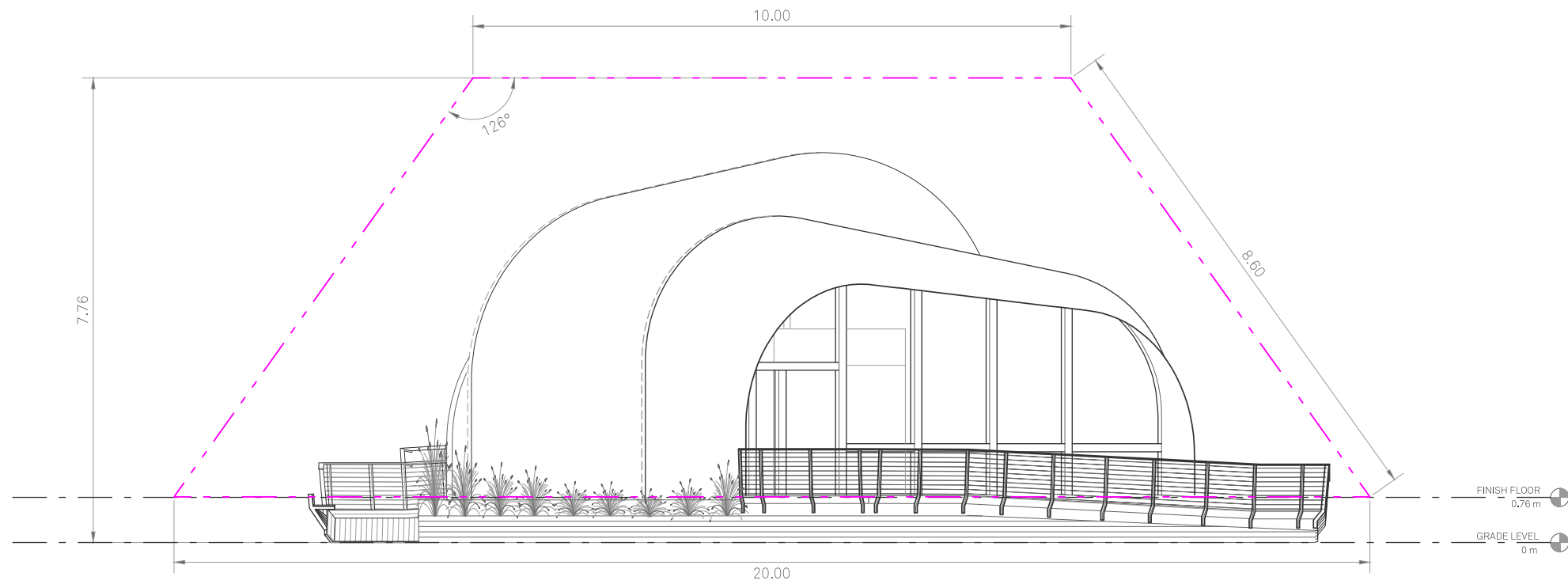
BROWN UNIVERSITY
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1 SOLAR ENVELOPE DIAGRAM-SOUTH EAST



2 SOLAR ENVELOPE DIAGRAM-SOUTH WEST

STAMP

DRAWN BY: Marielle De Peña Mateo

CHECKED BY: Jonathan Knowles

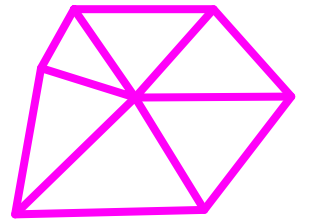
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DATE: 03 November, 2014

SCALE: 1:100



AR-052



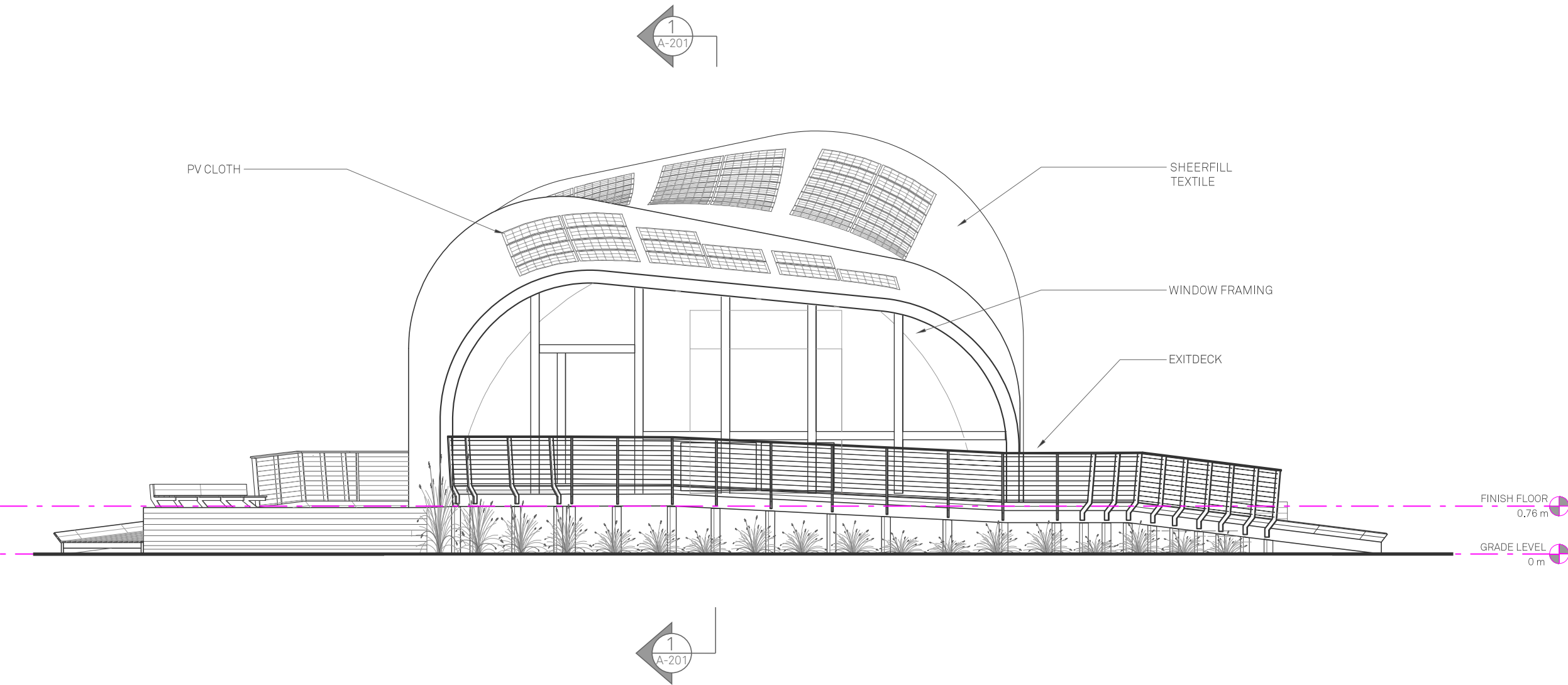
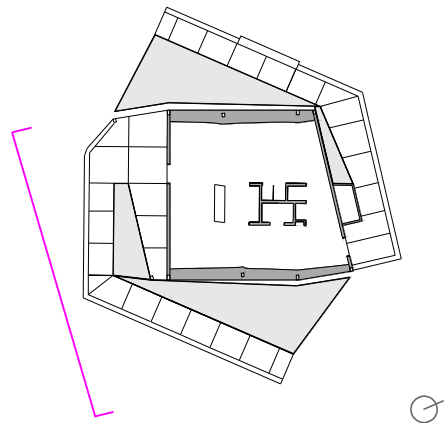
TECHSTYLE HAUS.

INSIDE OUT

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United States
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STAMP

DRAWN BY: Marielle De Peña Mateo

CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

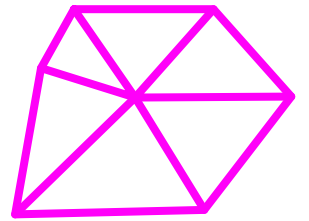
DATE: 03 November, 2014

SCALE: 1:75



1 SOUTH ELEVATION

AR-111



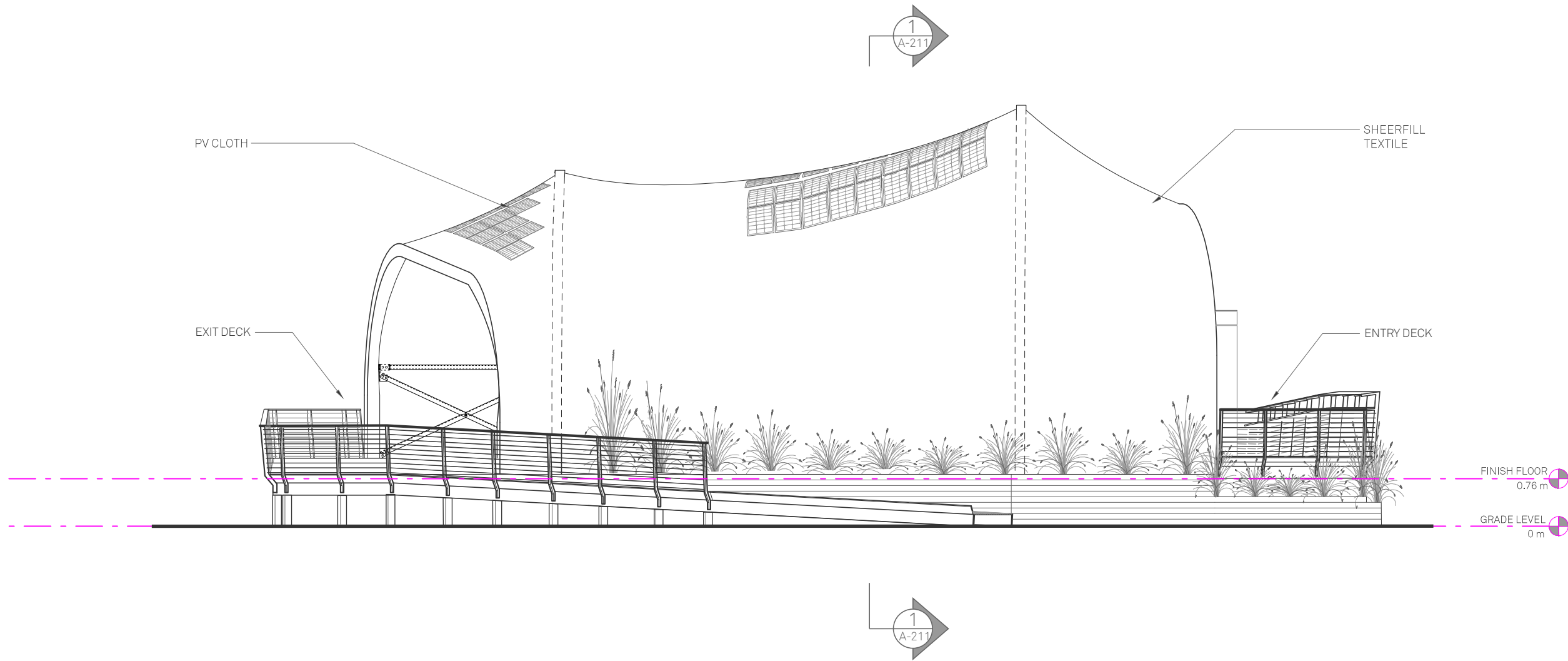
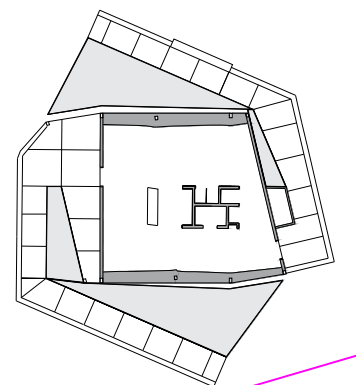
**TECHSTYLE
HAUS.**

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1 EAST ELEVATION

STAMP

DRAWN BY: Marielle De Peña Mateo

CHECKED BY: Jonathan Knowles

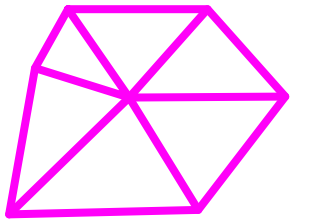
STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: 1:75



AR-112



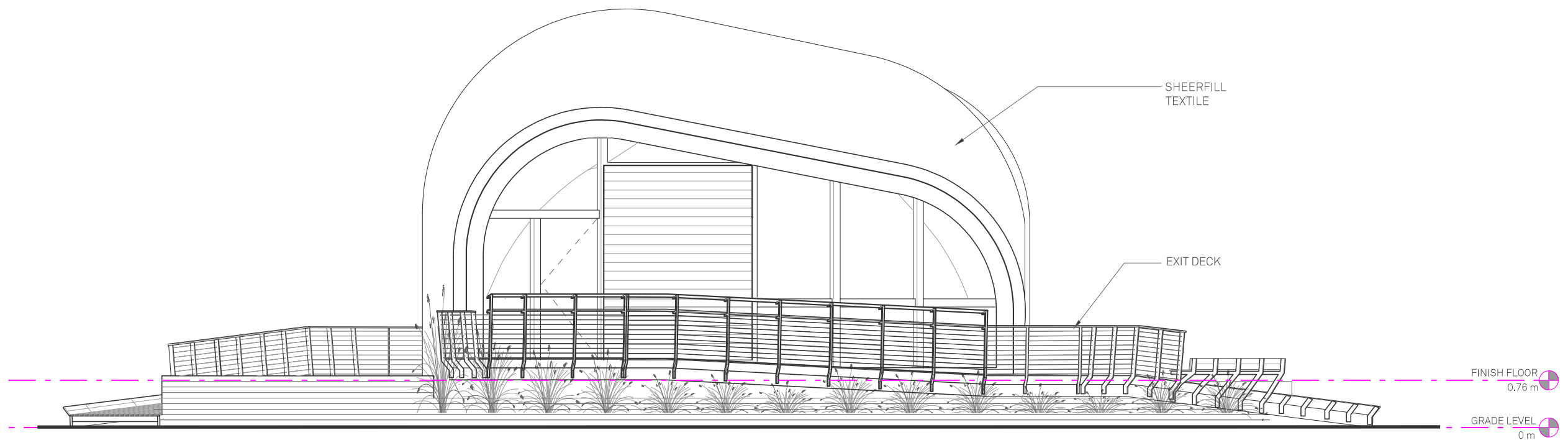
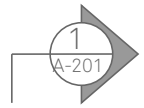
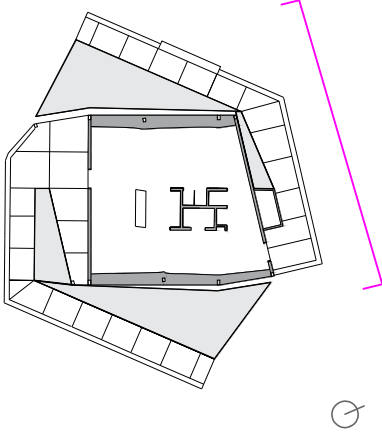
TECHSTYLE HAUS.

INSIDE OUT

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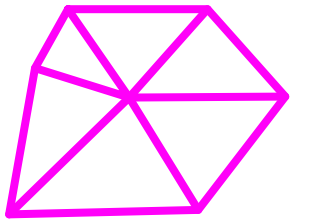
1 NORTH ELEVATION

STAMP

DRAWN BY: Marielle De Peña Mateo
CHECKED BY: Jonathan Knowles
STATUS: Deliverable #7
DATE: 03 November, 2014
SCALE: 1:75



AR-113



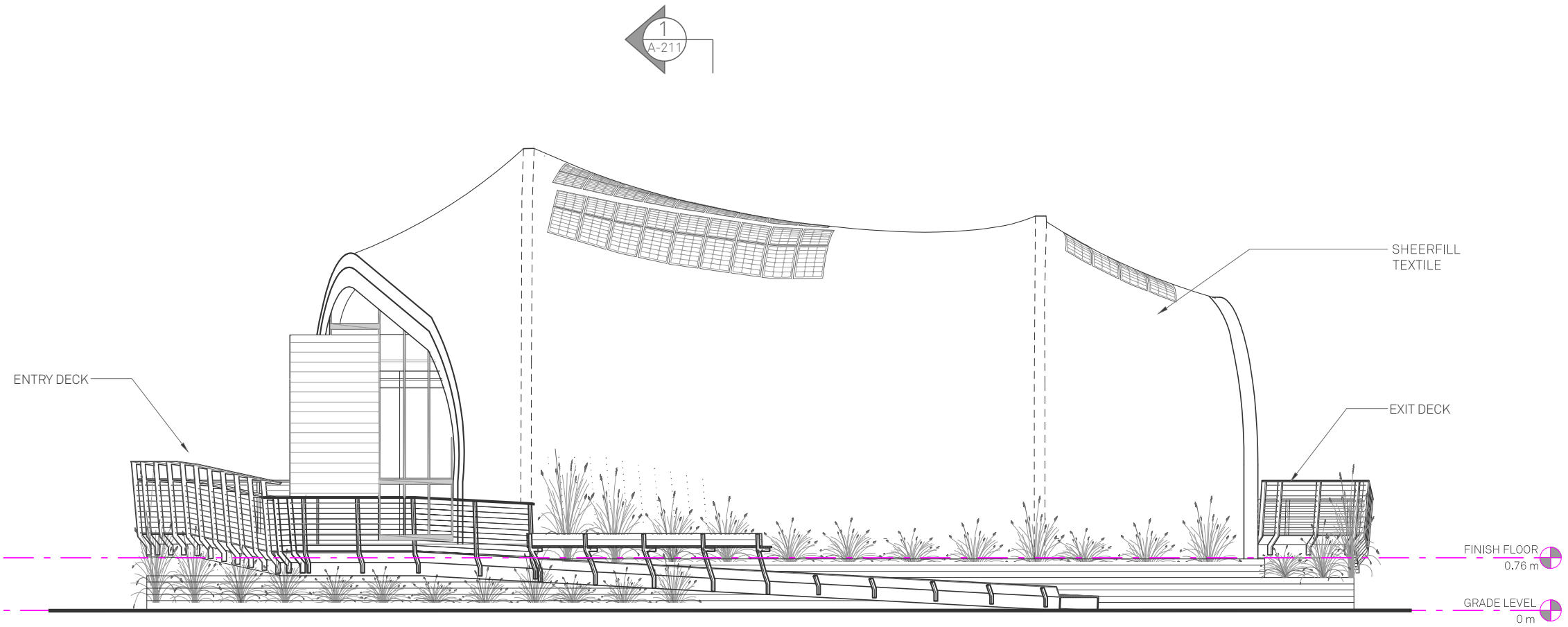
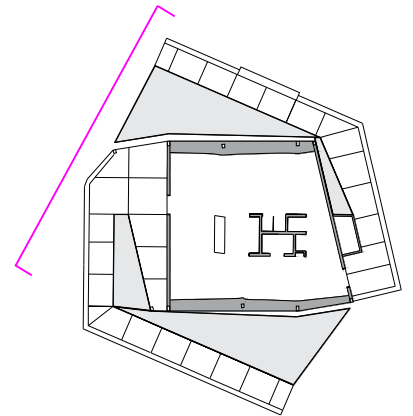
TECHSTYLE HAUS.

INSIDE OUT

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STAMP

DRAWN BY: Marielle De Peña Mateo

CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

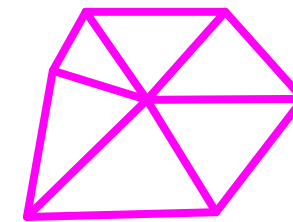
DATE: 03 November, 2014

SCALE: 1:75



1 WEST ELEVATION

AR-114



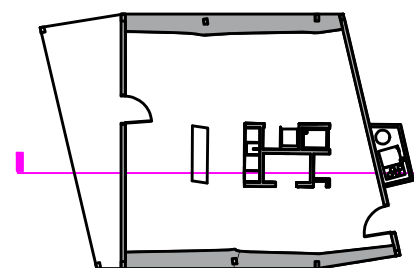
TECHSTYLE HAUS.

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STAMP

DRAWN BY: Jamie Graham

CHECKED BY: Jonathan Knowles

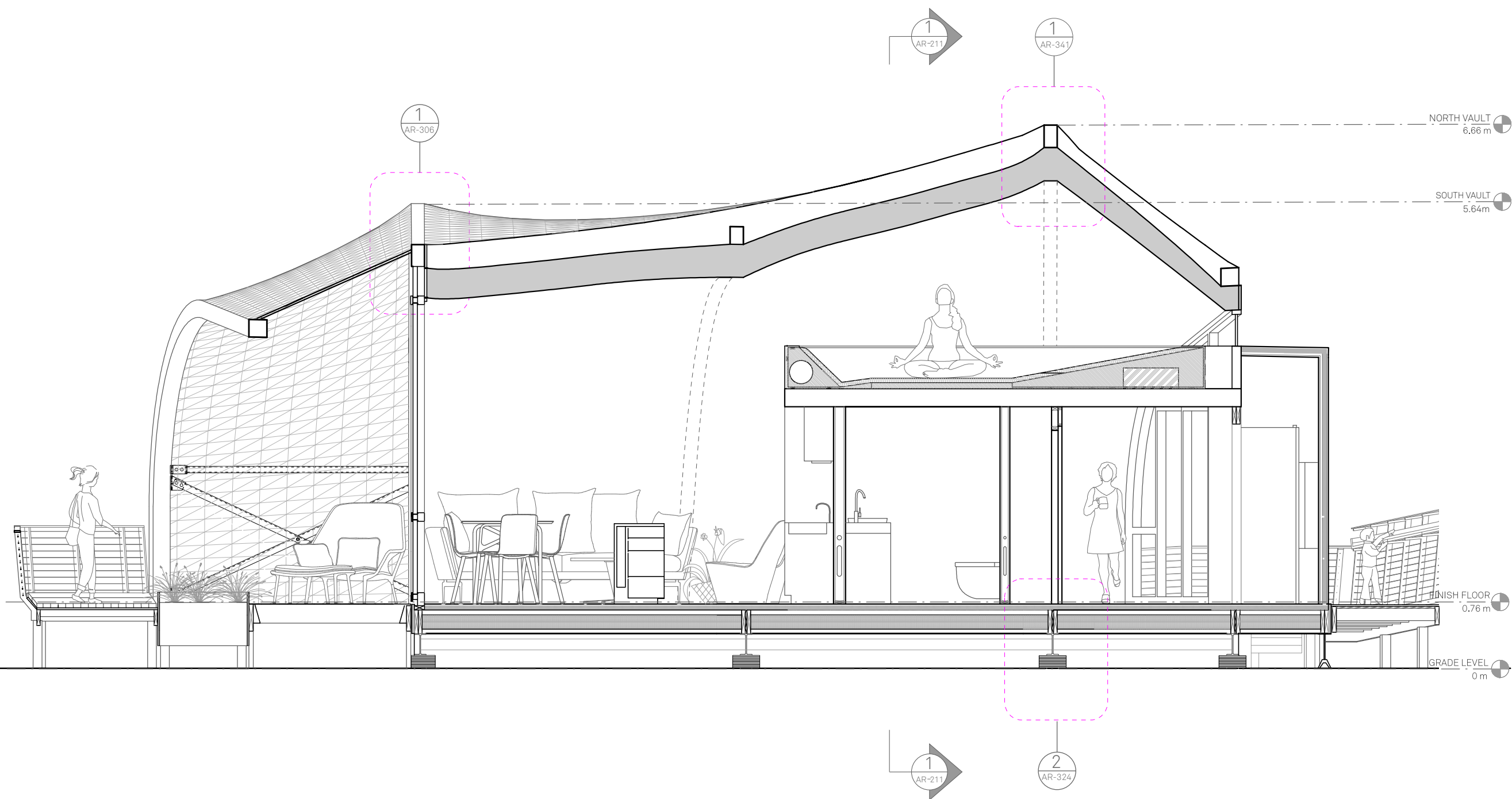
STATUS: Deliverable #7

DATE: 03 November, 2014

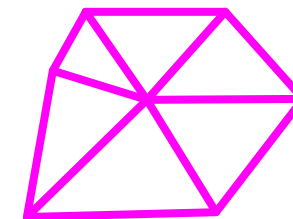
SCALE: 1:50



AR-201



1 LONGITUDINAL SECTION - LOOKING WEST



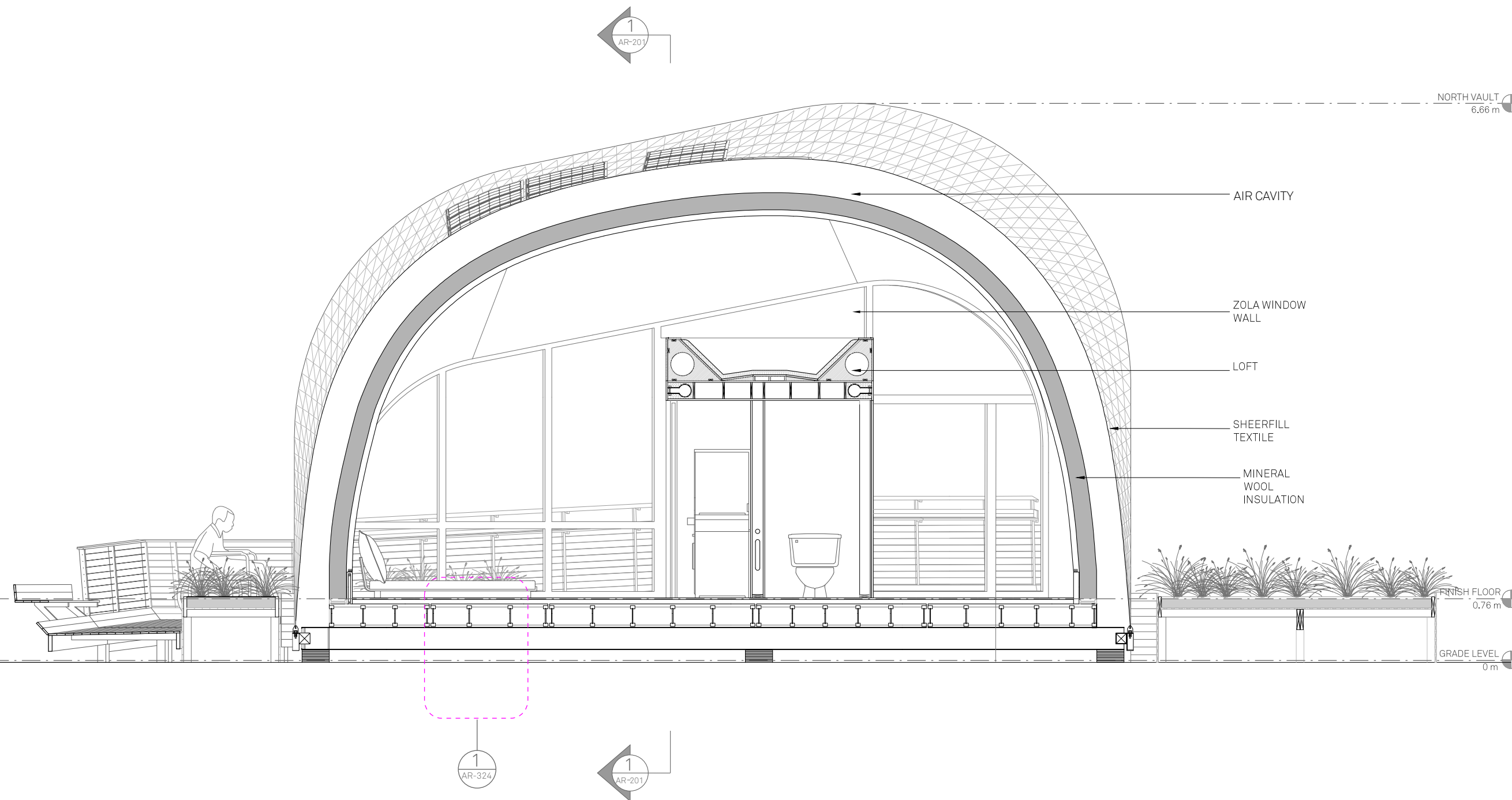
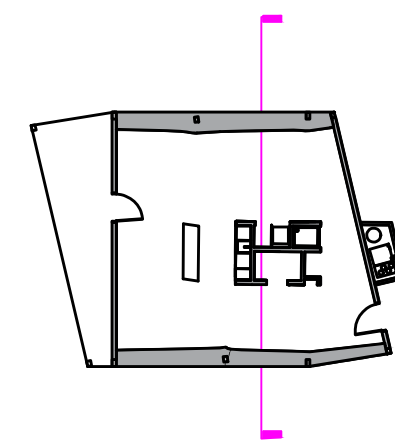
TECHSTYLE HAUS.

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1 TRANSVERSE SECTION

STAMP

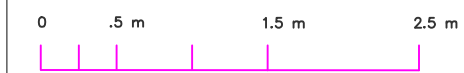
DRAWN BY: Jamie Graham

CHECKED BY: Jonathan Knowles

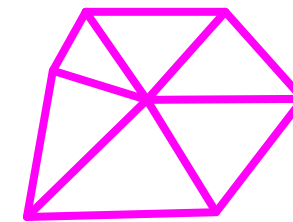
STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: 1:50



AR-211



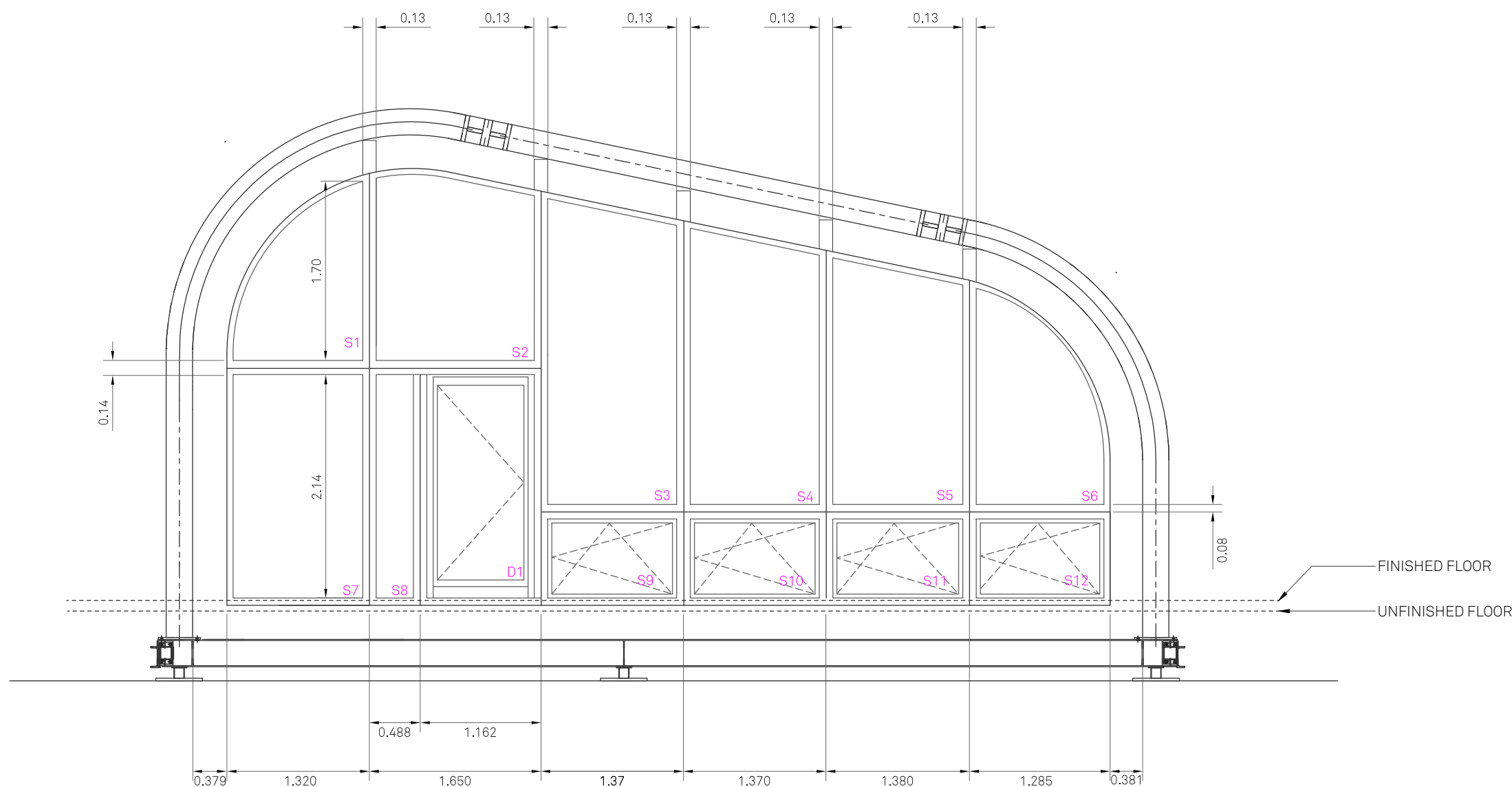
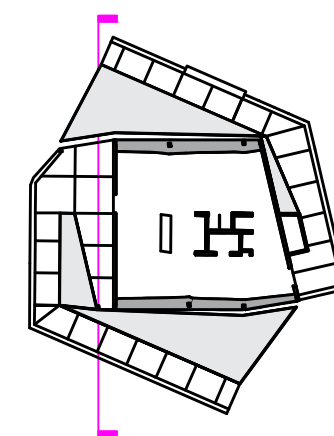
**TECHSTYLE
HAUS.**

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1 SOUTH WINDOW ELEVATION

STAMP

DRAWN BY: Sascha Emmert

CHECKED BY: Jonathan Knowles

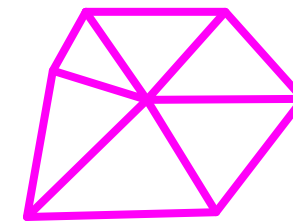
STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: 1:50



AR-301



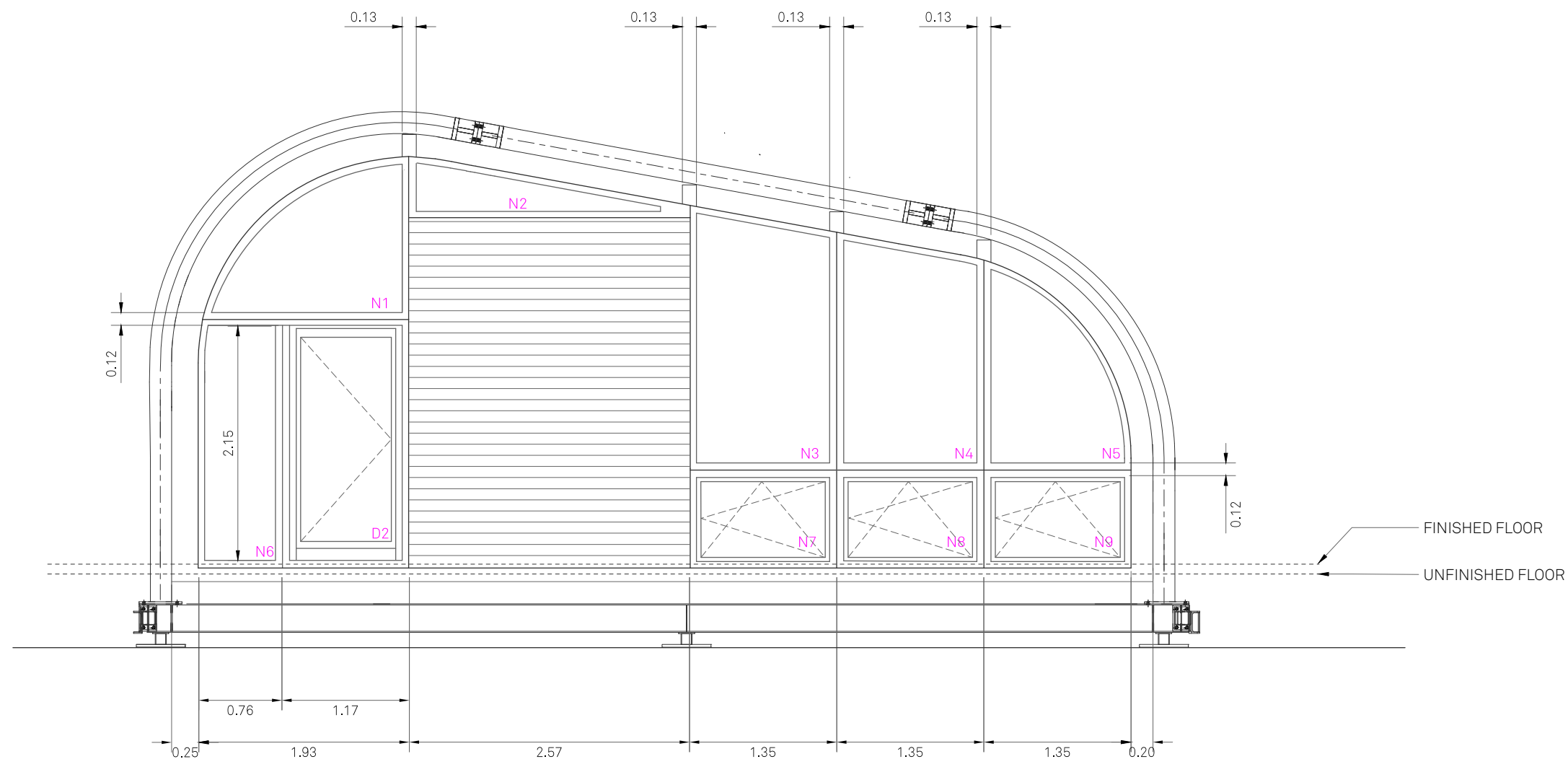
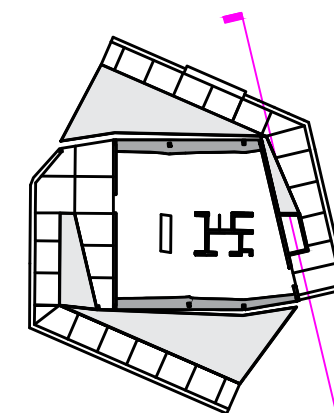
**TECHSTYLE
HAUS.**

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1 NORTH WINDOW ELEVATION

STAMP

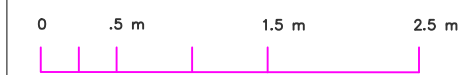
DRAWN BY: Sascha Emmert

CHECKED BY: Jonathan Knowles

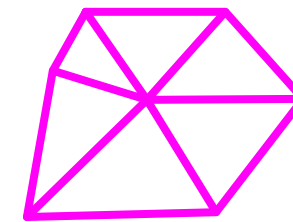
STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: 1:50



AR-302



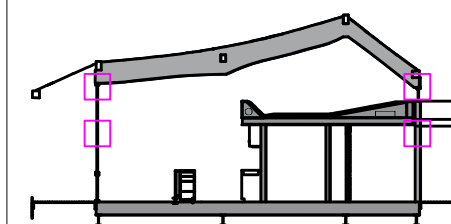
**TECHSTYLE
HAUS.**

INSIDE OUT

BROWN UNIVERSITY
75 Waterman Street
Providence, RI 02906
United States
+1-401-863-1000

FACHHOCHSCHULE ERFURT
Altonaer Straße 25
99085 Erfurt
Germany
+49-361-6700-443

**RHODE ISLAND SCHOOL
OF DESIGN**
2 College Street
Providence, RI 02903
United States
+1-401-454-6100



STAMP

DRAWN BY: Marielle De Peña Mateo

CHECKED BY: Jonathan Knowles

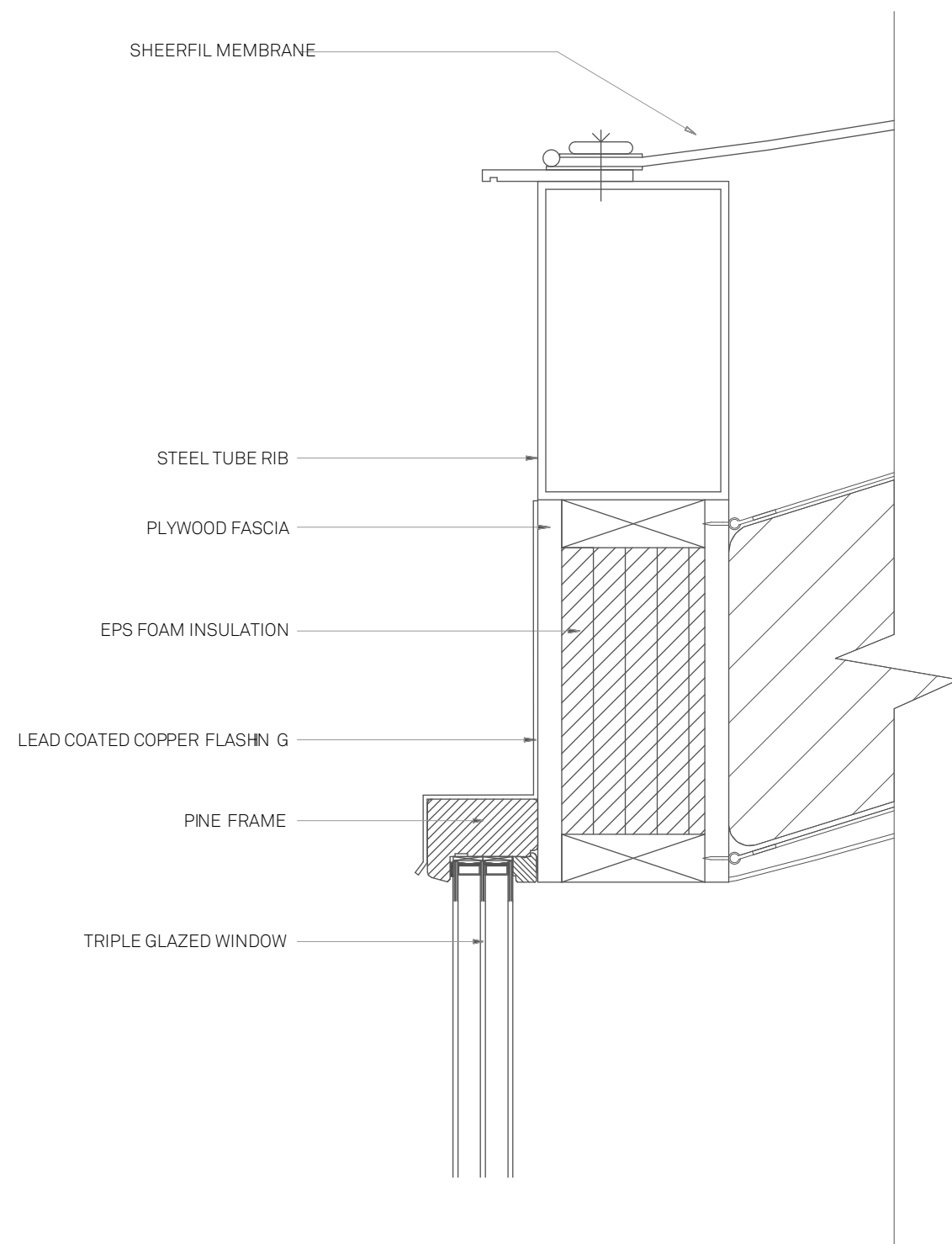
STATUS: Deliverable #7

DATE: 03 November, 2014

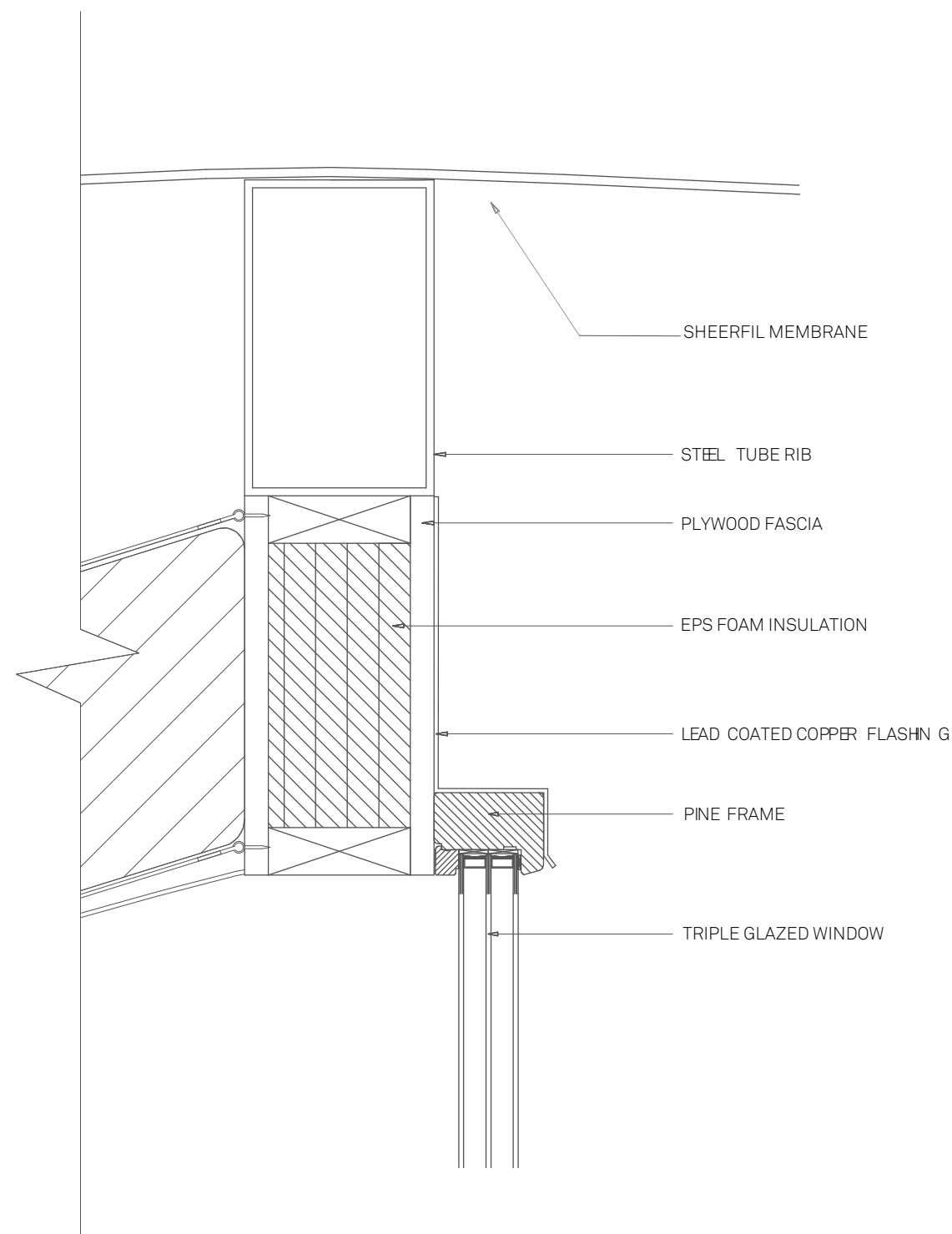
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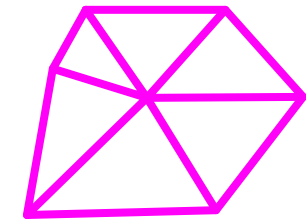
AR-303



1 HEAD WINDOW DETAIL NORTH



2 HEAD WINDOW DETAIL SOUTH



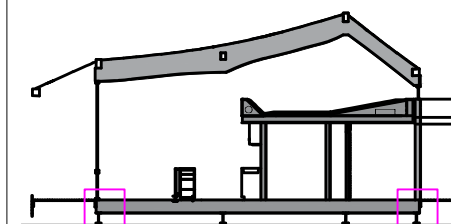
**TECHSTYLE
HAUS.**

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STAMP

DRAWN BY: Marielle De Peña Mateo

CHECKED BY: Jonathan Knowles

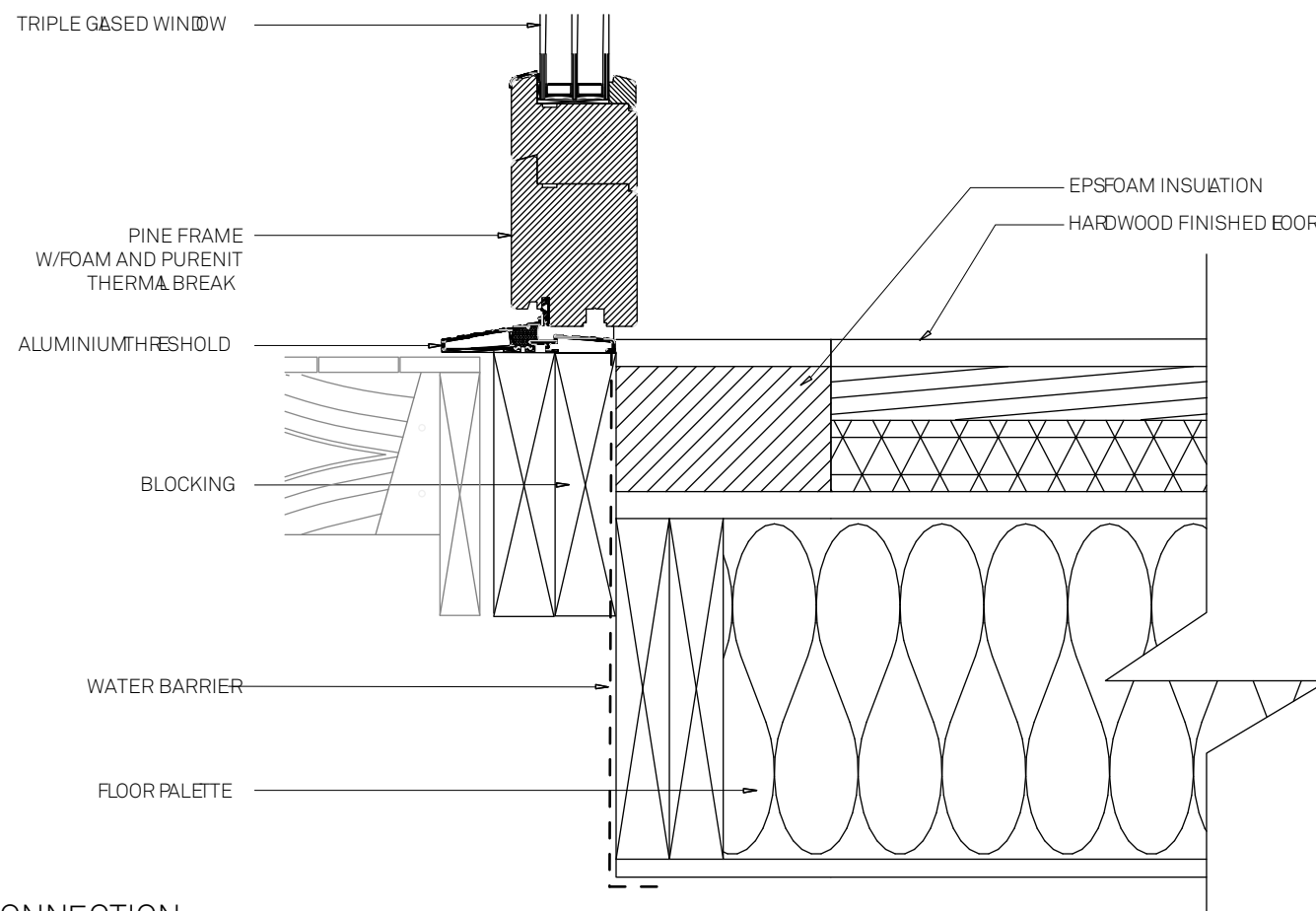
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DATE: 03 November, 2014

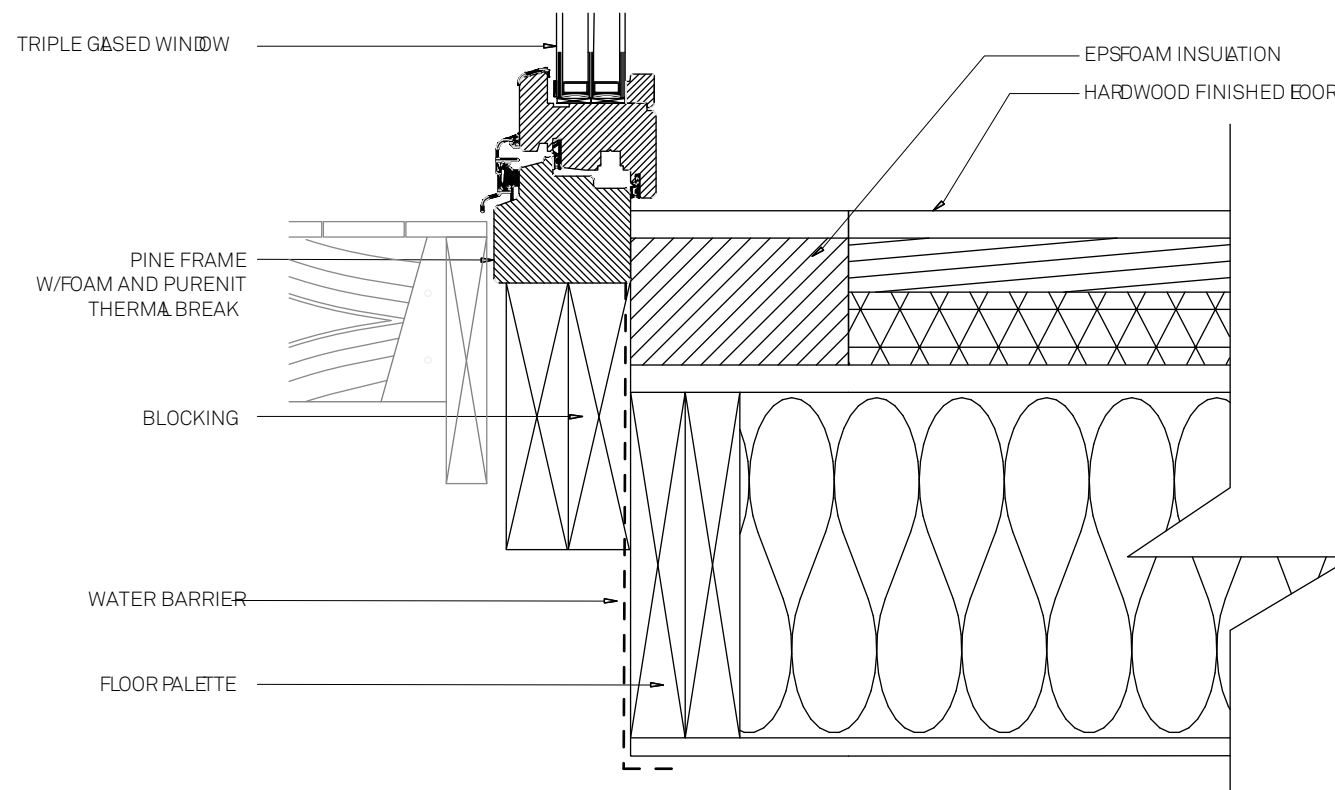
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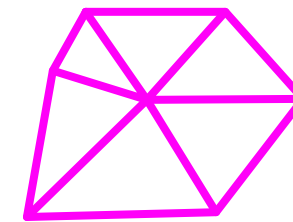
AR-304



1 DOOR TO FLOOR CONNECTION



2 WINDOW TO FLOOR CONNECTION



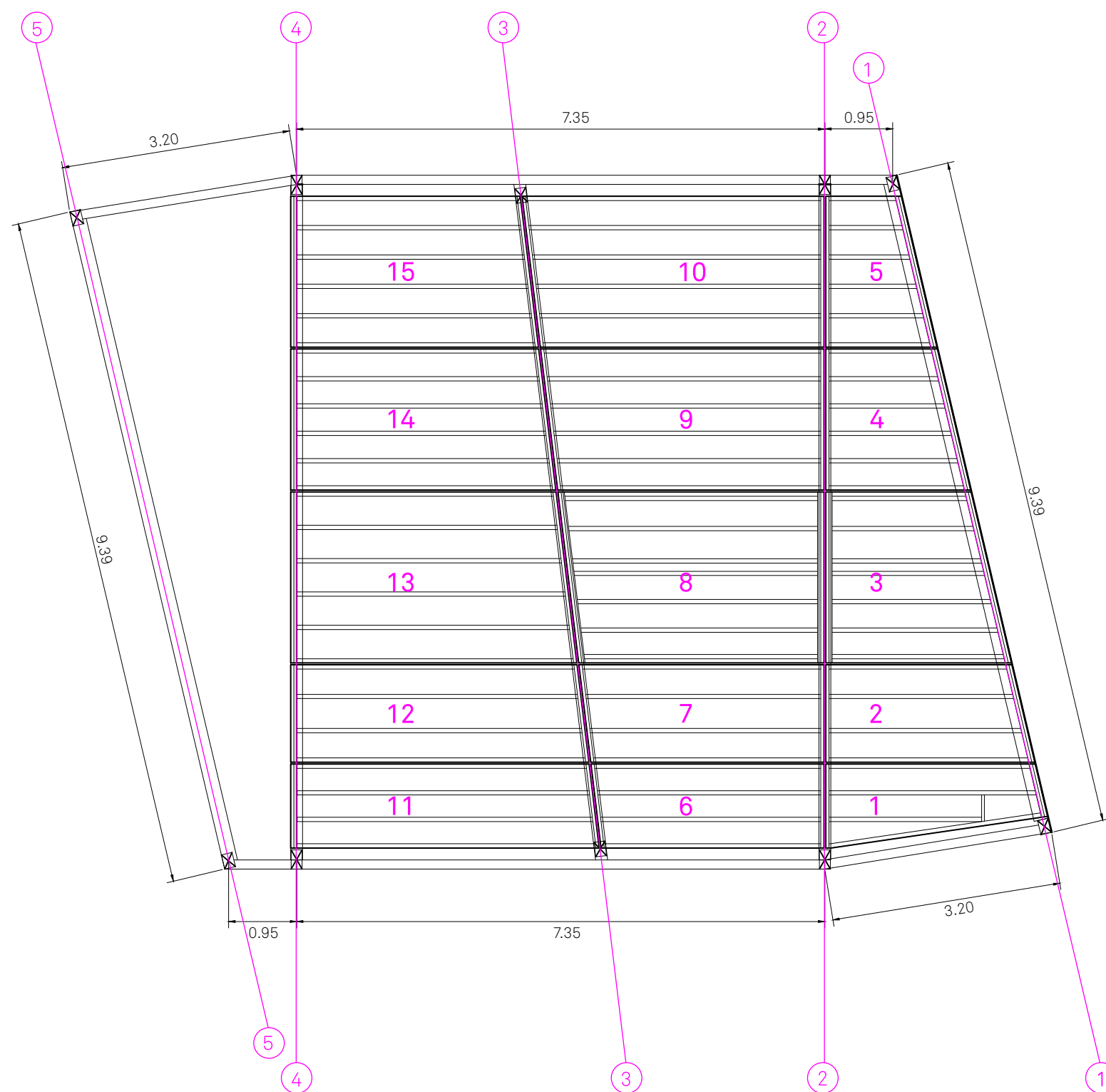
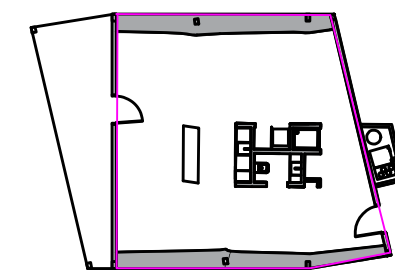
TECHSTYLE HAUS.

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1 FLOOR PALLETTE FRAMING PLAN

STAMP

DRAWN BY: Anya Sellsted

CHECKED BY: Jonathan Knowles

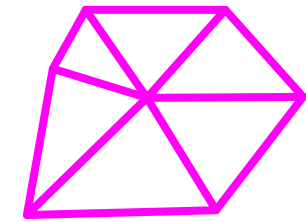
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DATE: 03 November, 2014

SCALE: 1:75



AR-320



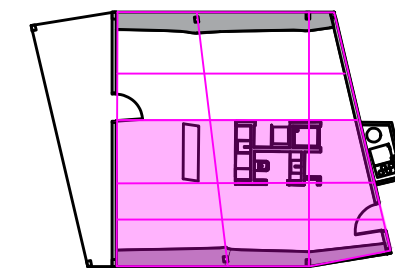
**TECHSTYLE
HAUS.**

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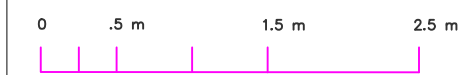
DRAWN BY: Anya Sellsted

CHECKED BY: Jonathan Knowles

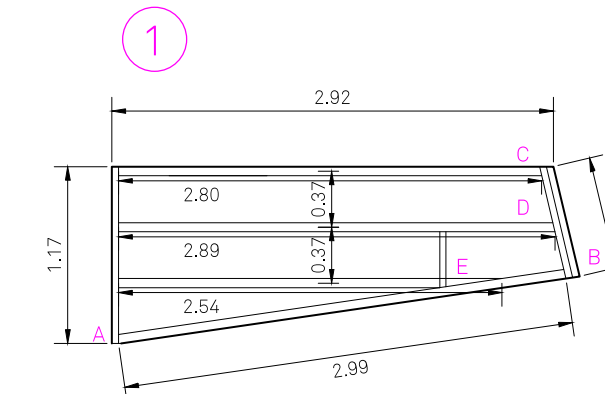
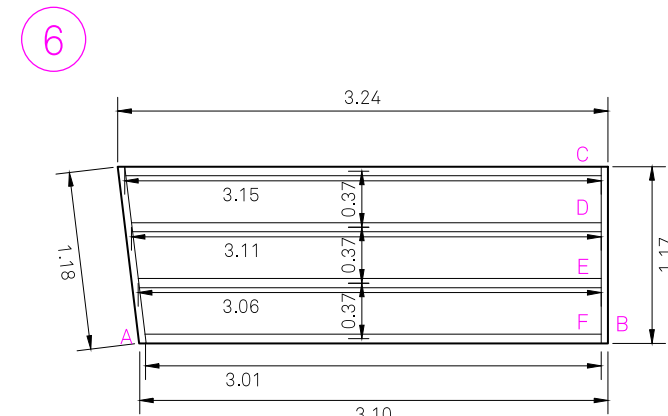
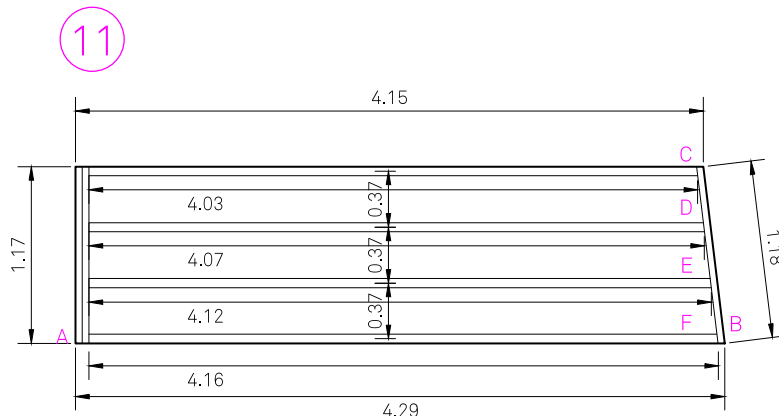
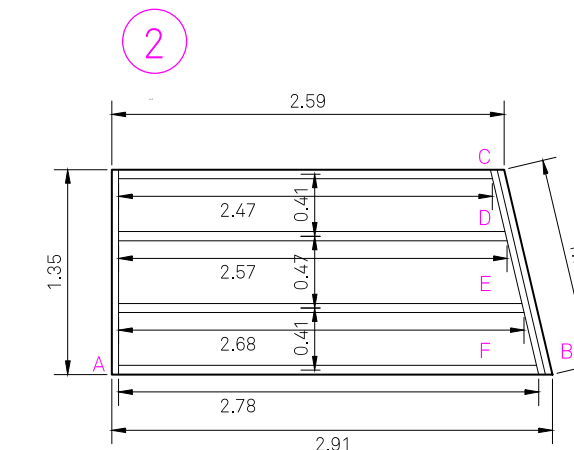
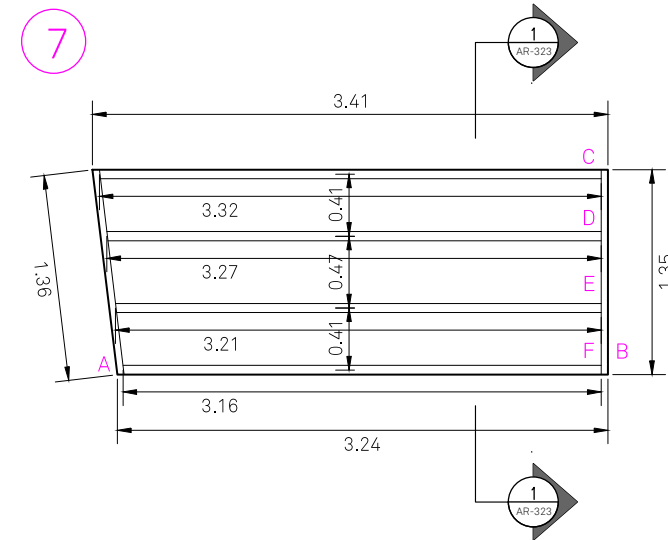
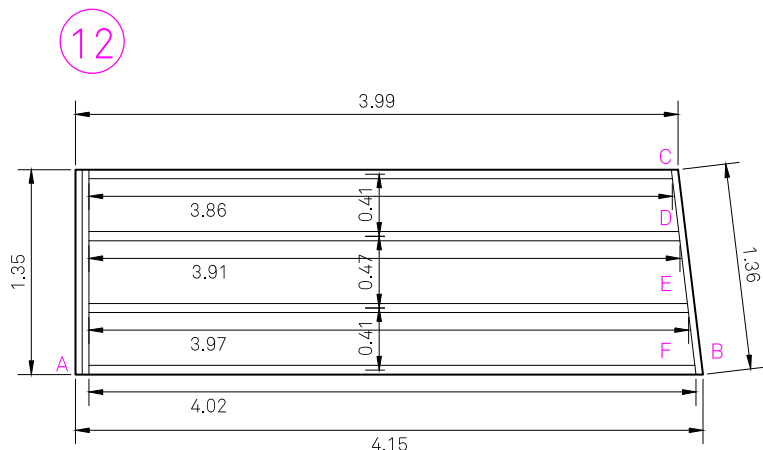
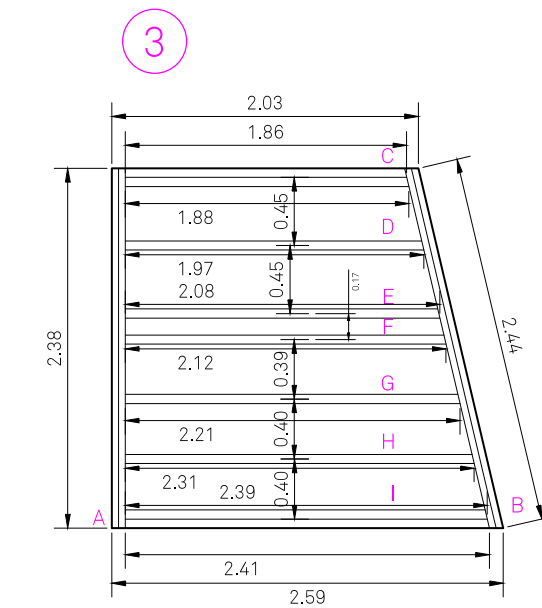
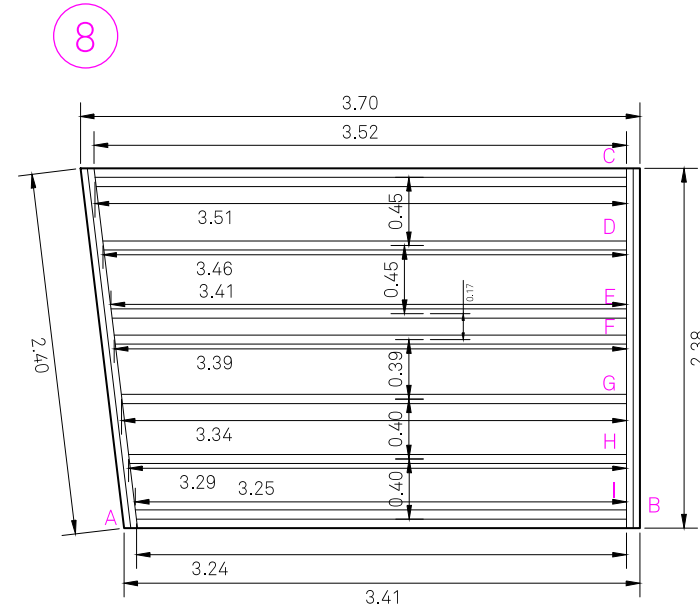
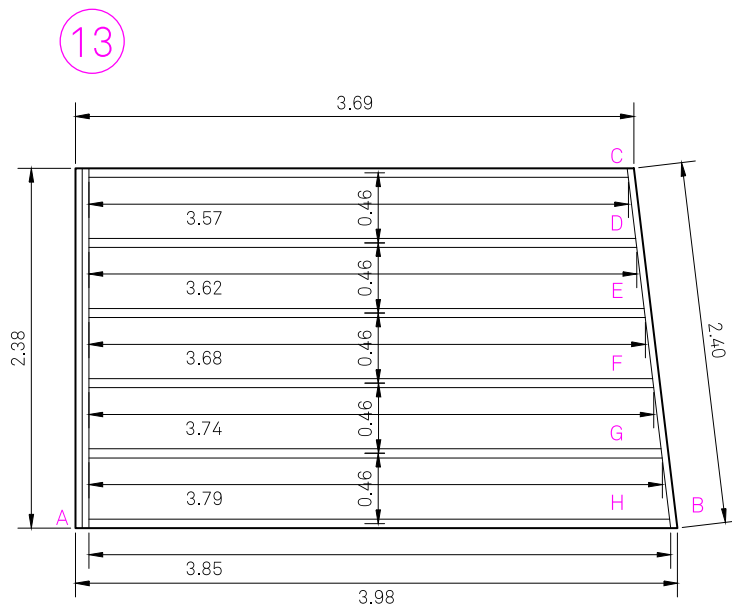
STATUS: Deliverable #7

DATE: 03 November, 2014

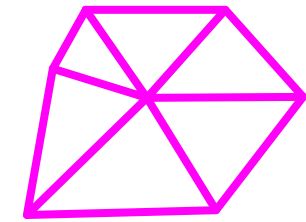
SCALE: 1:50



AR-321



1 FLOOR PALLETTE PLAN LAYOUT



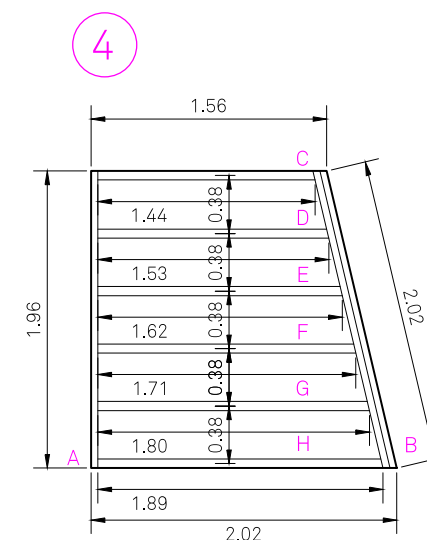
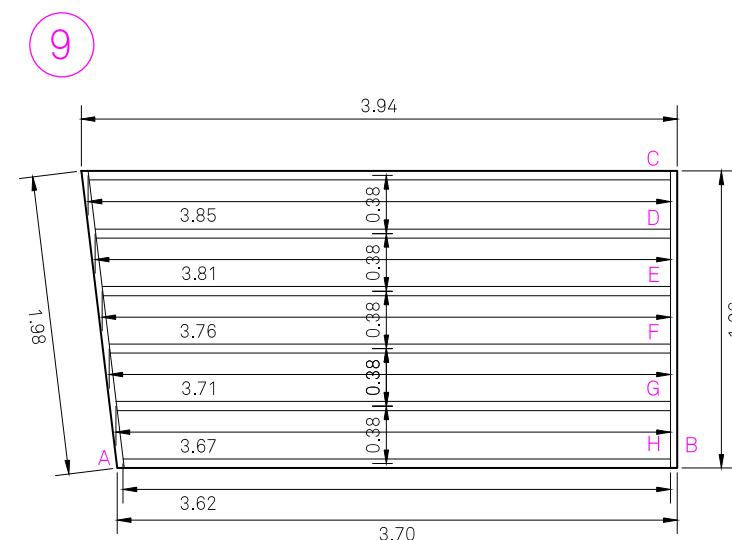
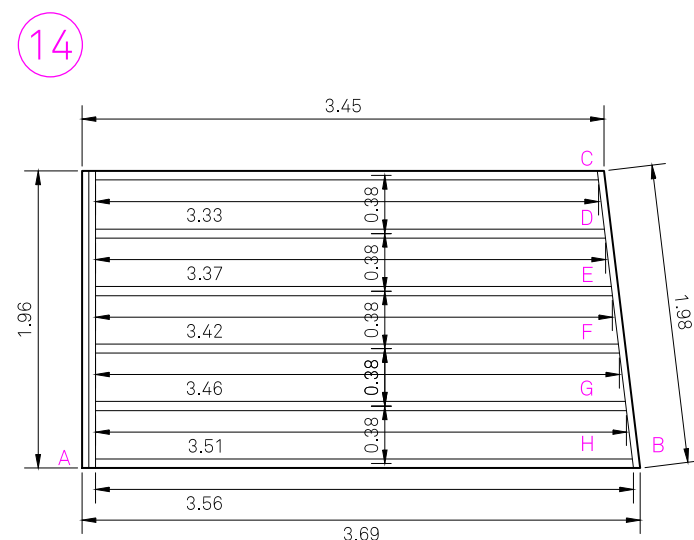
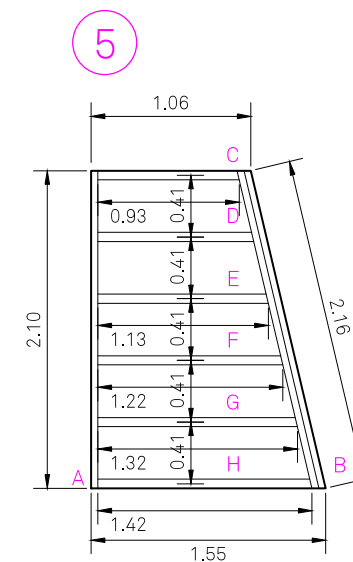
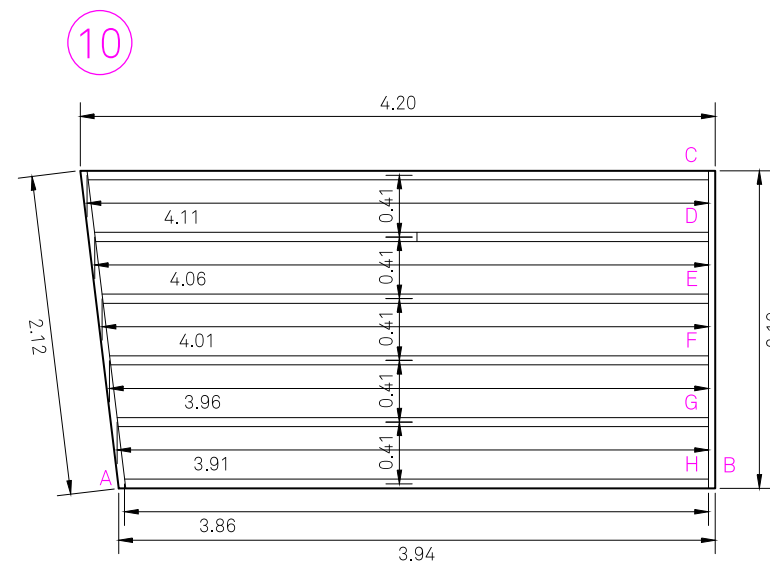
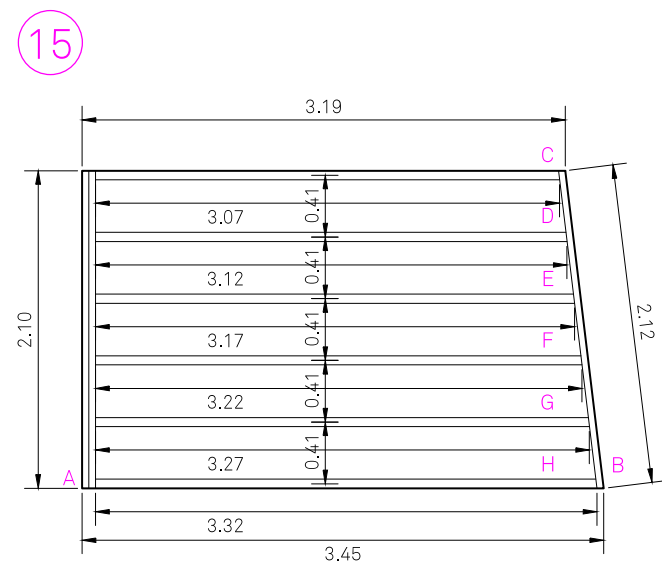
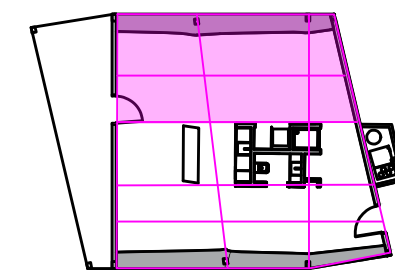
**TECHSTYLE
HAUS.**

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1 FLOOR PALLETTE PLAN LAYOUT

STAMP

DRAWN BY: Anya Sellsted

CHECKED BY: Jonathan Knowles

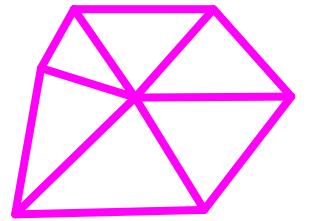
STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: 1:50



AR-322



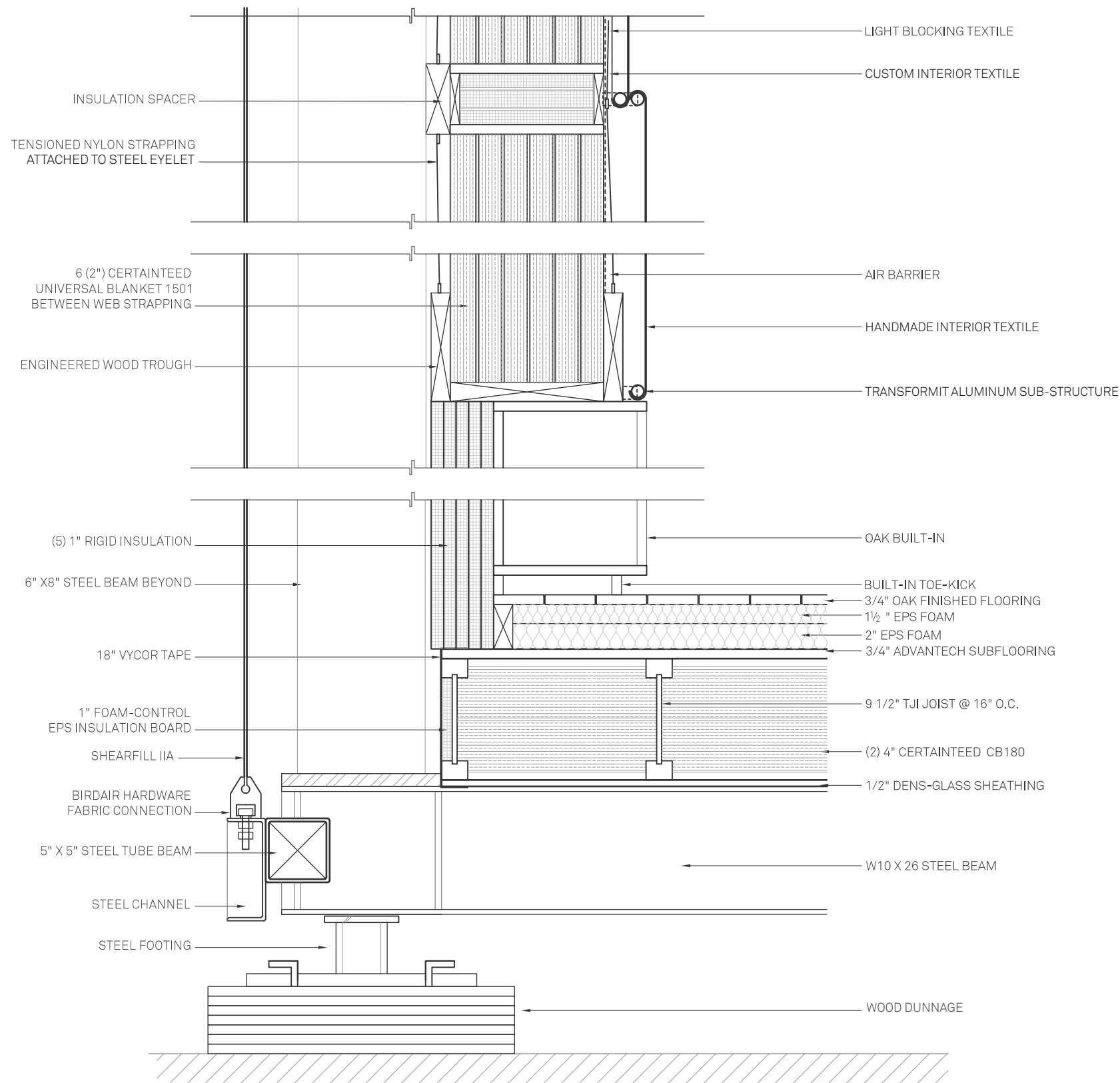
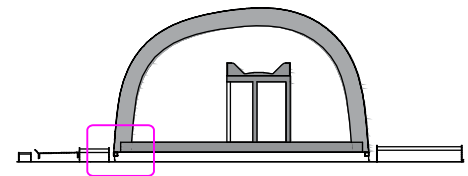
**TECHSTYLE
HAUS.**

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STAMP

DRAWN BY: Marielle De Peña Mateo

CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

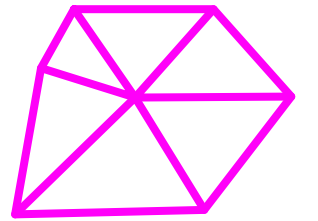
DATE: 03 November, 2014

SCALE: 1:10



1 WALL TO FLOOR PALETTE CONNECTION DETAIL

AR-323



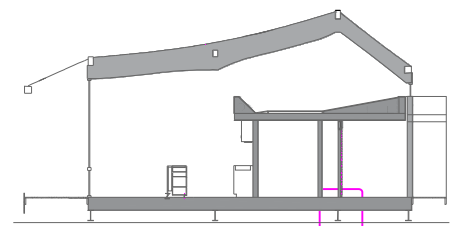
**TECHSTYLE
HAUS.**

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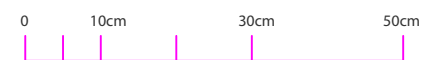
DRAWN BY: Marielle De Peña Mateo

CHECKED BY: Jonathan Knowles

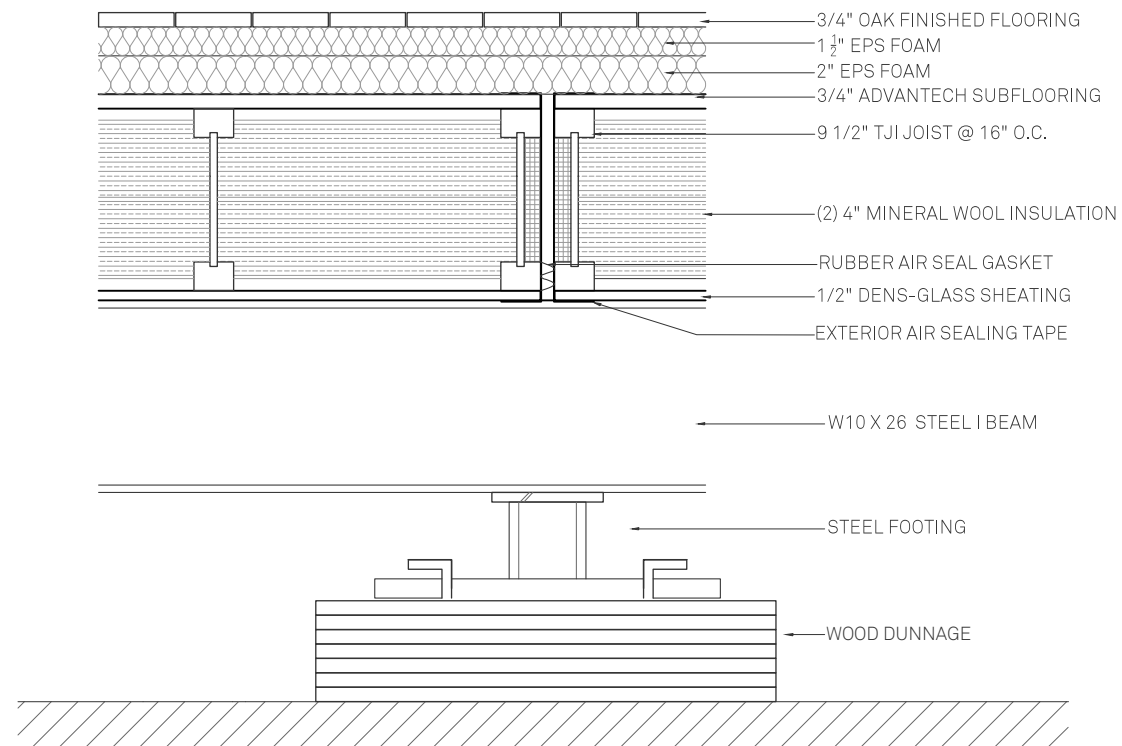
STATUS: Deliverable #7

DATE: 03 November, 2014

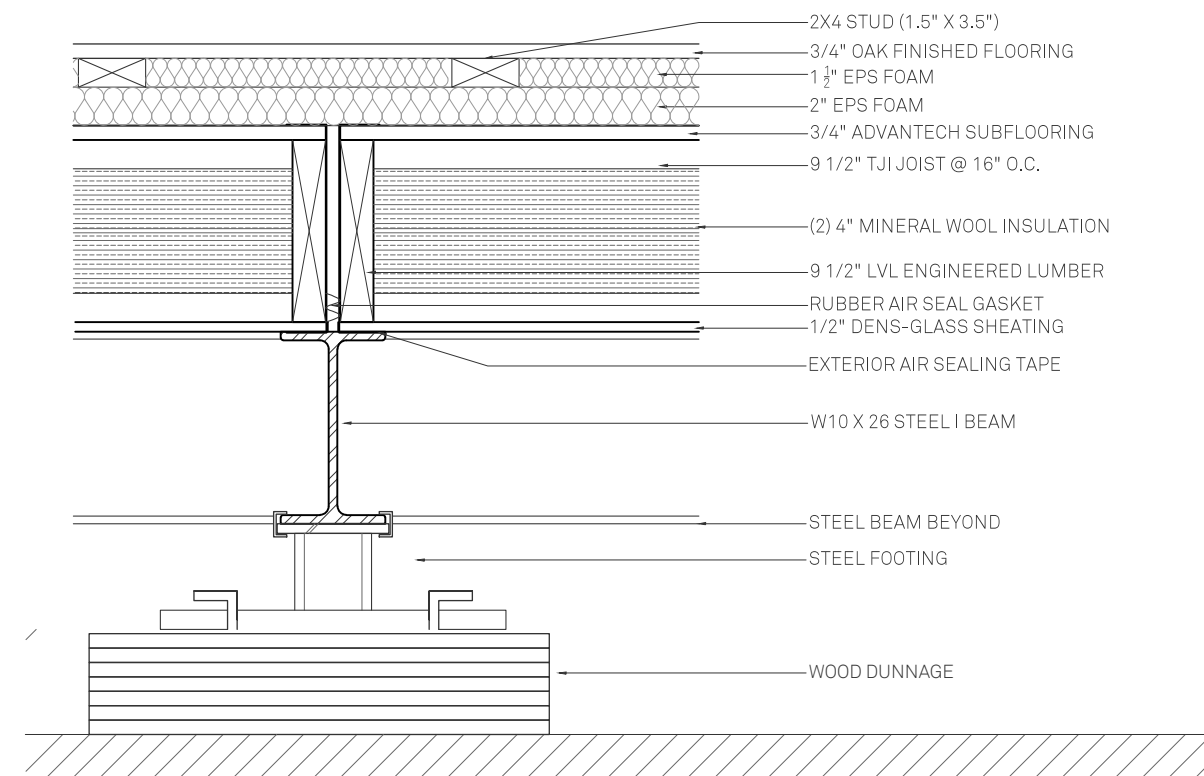
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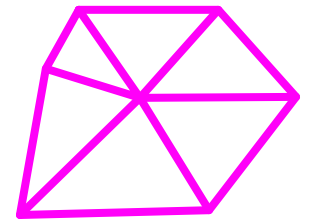
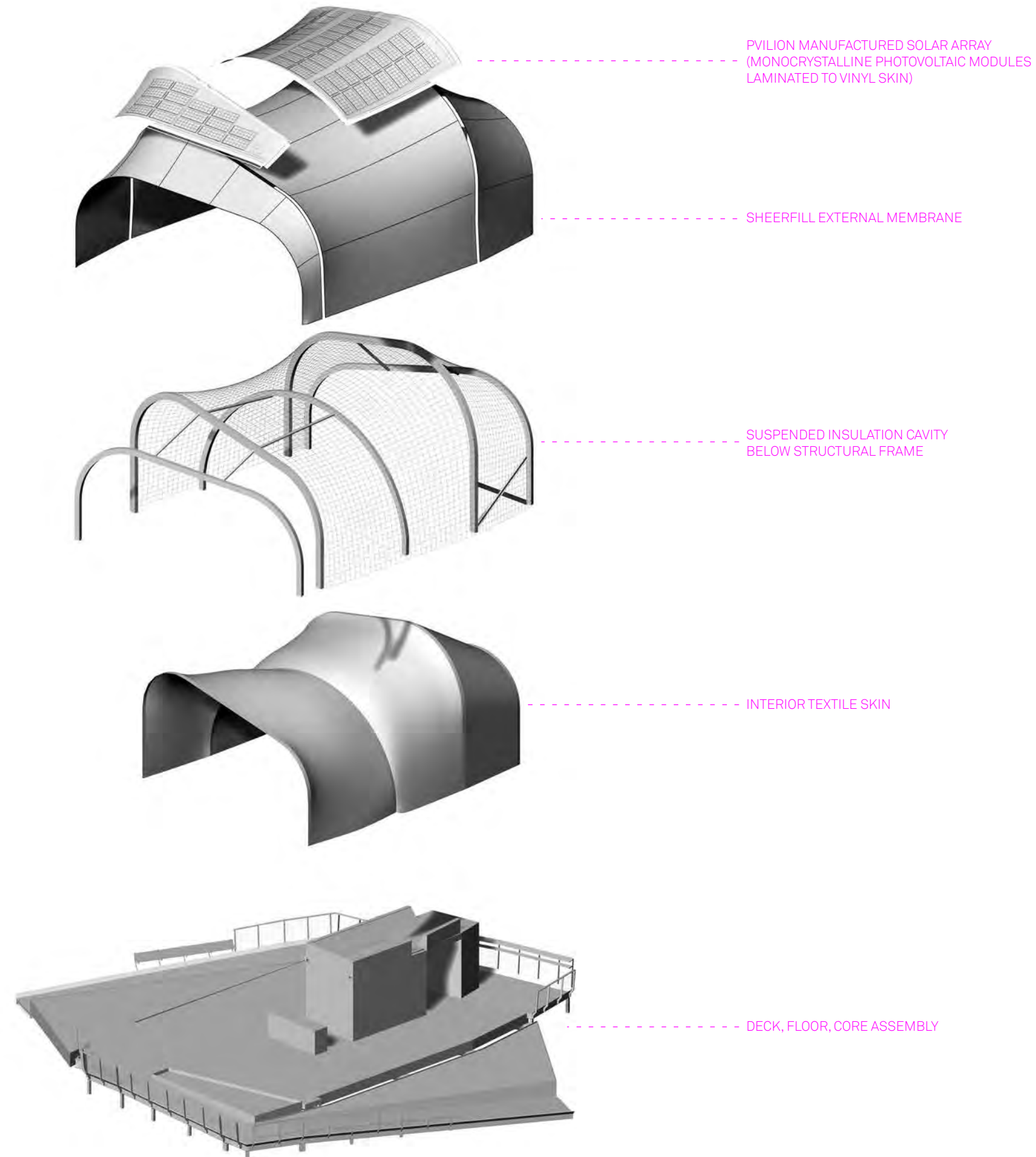
AR-324



1 FLOOR PALETTE CROSS SECTION DETAIL



2 FLOOR PALETTE LONGITUDINAL SECTION DETAIL



**TECHSTYLE
HAUS.**

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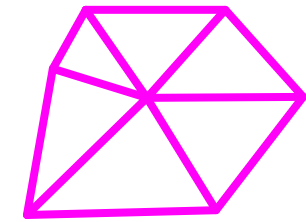
DRAWN BY: Sam Zeif

CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: N/A



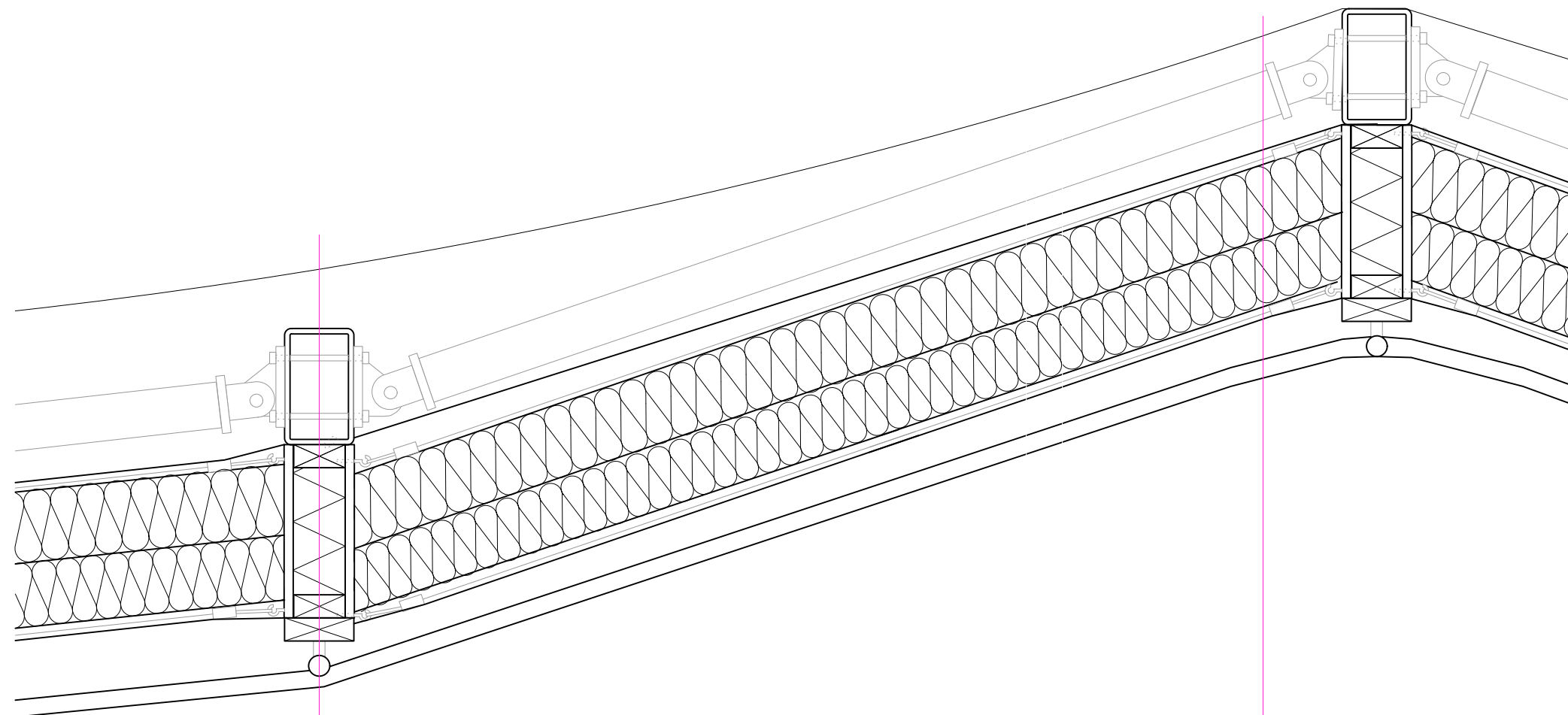
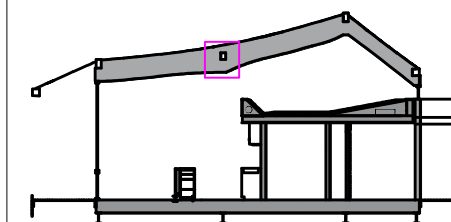
TECHSTYLE HAUS.

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SHEERFILL EXTERNAL MEMBRANE
HOLLOW STEEL SECTION (HHS)
WEATHER BARRIER (TAPED TO STEEL)
1.5" WOOD BLOCKING
TENSIONED NYLON STRAPPING
ATTACHED TO STEEL EYELET
BOXFRAME SPACER

SHEERFILL EXTERNAL MEMBRANE
AIR GAP BETWEEN STEEL FRAMES
WEATHER BARRIER (TAPED TO STEEL)
TENSIONED NYLON STRAPPING ATTACHED TO STEEL EYELET
ISOVER INTEGRA 032 ZKF MINERAL WOOL INSULATION
TENSIONED NYLON STRAPPING ATTACHED TO STEEL EYELET
ISOVER VARIO AIR BARRIER
LIGHT BLOCKING TEXTILE
ALUMINIUM INTERIOR TEXTILE SUBSTRUCTURE
INTERIOR TEXTILE

1 WALL ASSEMBLY (TYP)

STAMP

DRAWN BY: Sam Zeif

CHECKED BY: Jonathan Knowles

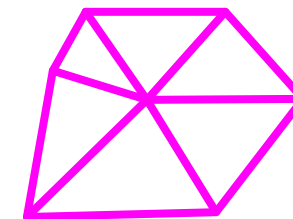
STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: 1:15



AR-341



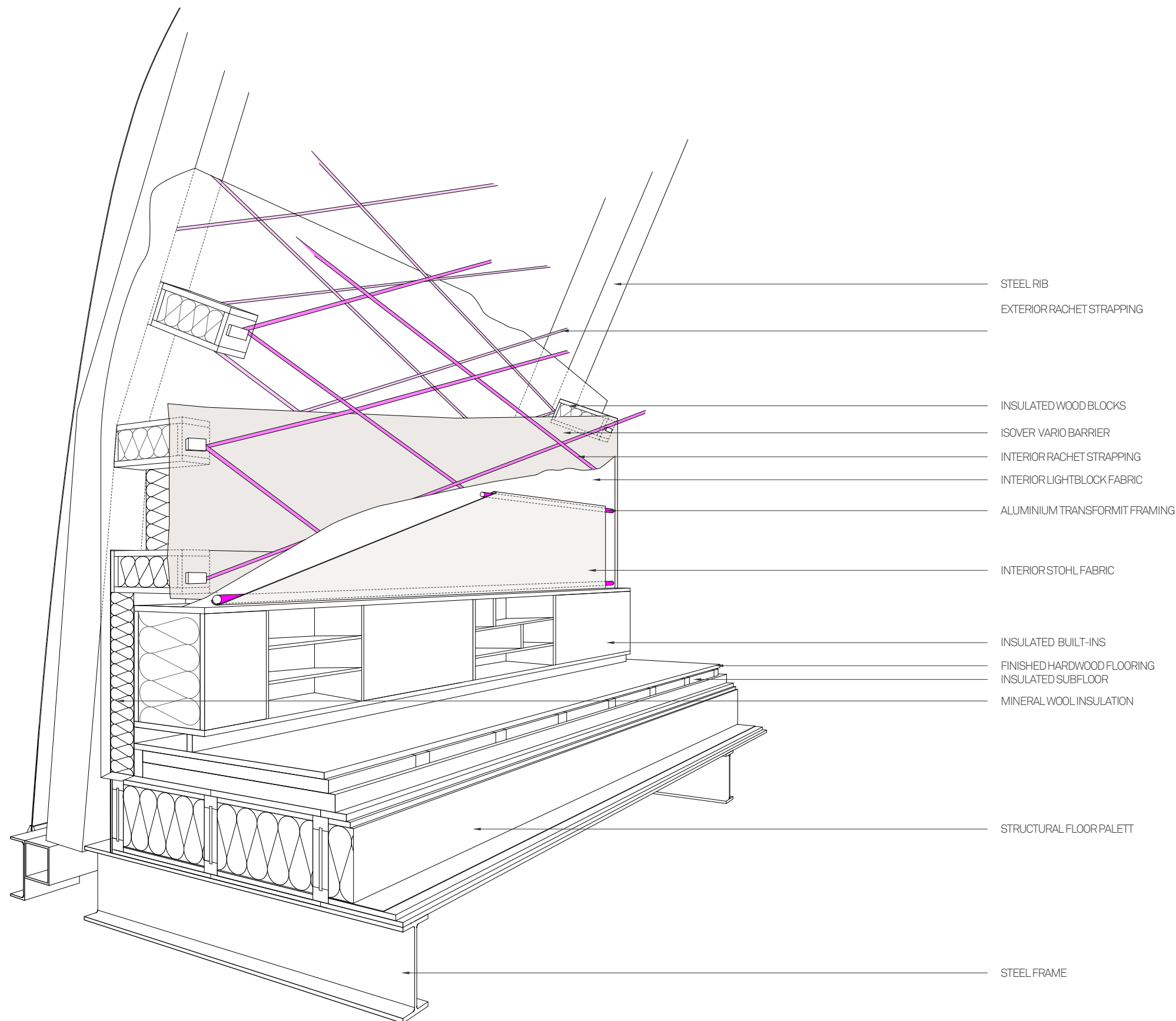
**TECHSTYLE
HAUS.**

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1 WALL ASSEMBLY AXONOMETRIC (TYP)

STAMP

DRAWN BY: Felicitas Bach

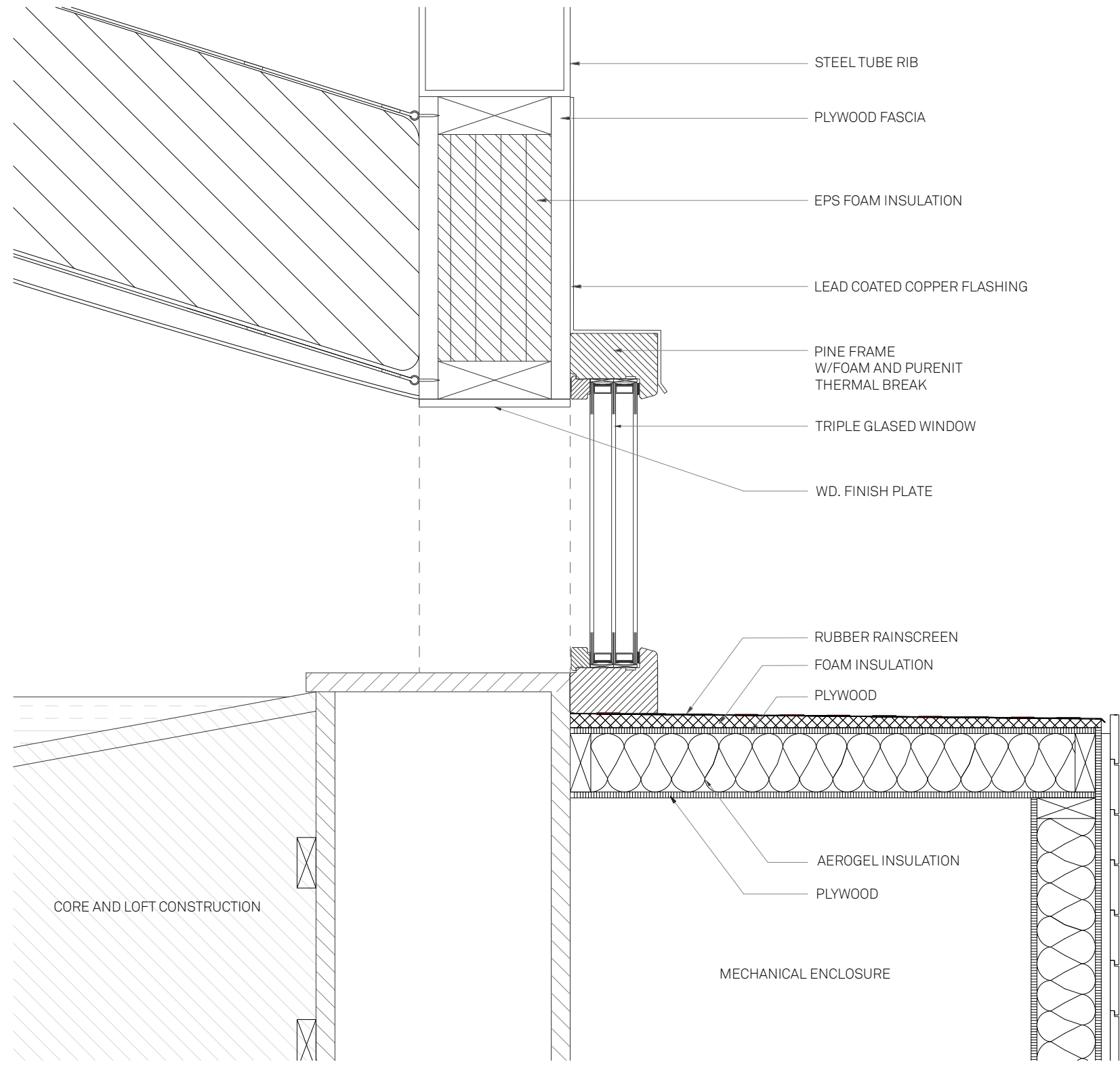
CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: N/A

AR-342



STEEL TUBE RIB

PLYWOOD FASCIA

EPS FOAM INSULATION

LEAD COATED COPPER FLASHING

PINE FRAME
W/FOAM AND PURENIT
THERMAL BREAK

TRIPLE GLAZED WINDOW

WD. FINISH PLATE

RUBBER RAINSCREEN

FOAM INSULATION

PLYWOOD

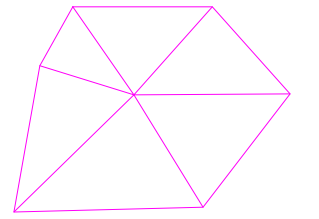
AEROGEL INSULATION

PLYWOOD

MECHANICAL ENCLOSURE

CORE AND LOFT CONSTRUCTION

1 WINDOW CONNECTION



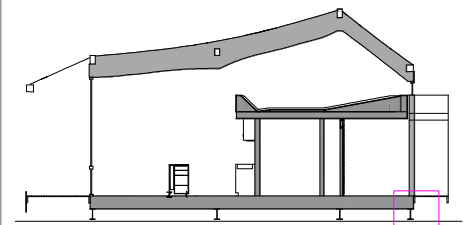
**TECHSTYLE
HAUS.**

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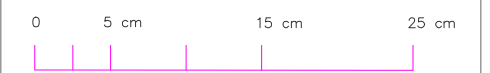
DRAWN BY: Giles Holt

CHECKED BY: Jonathan Knowles

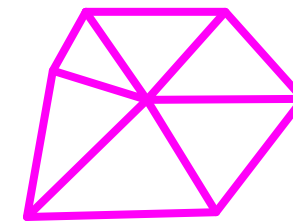
STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: 1:20



AR-351



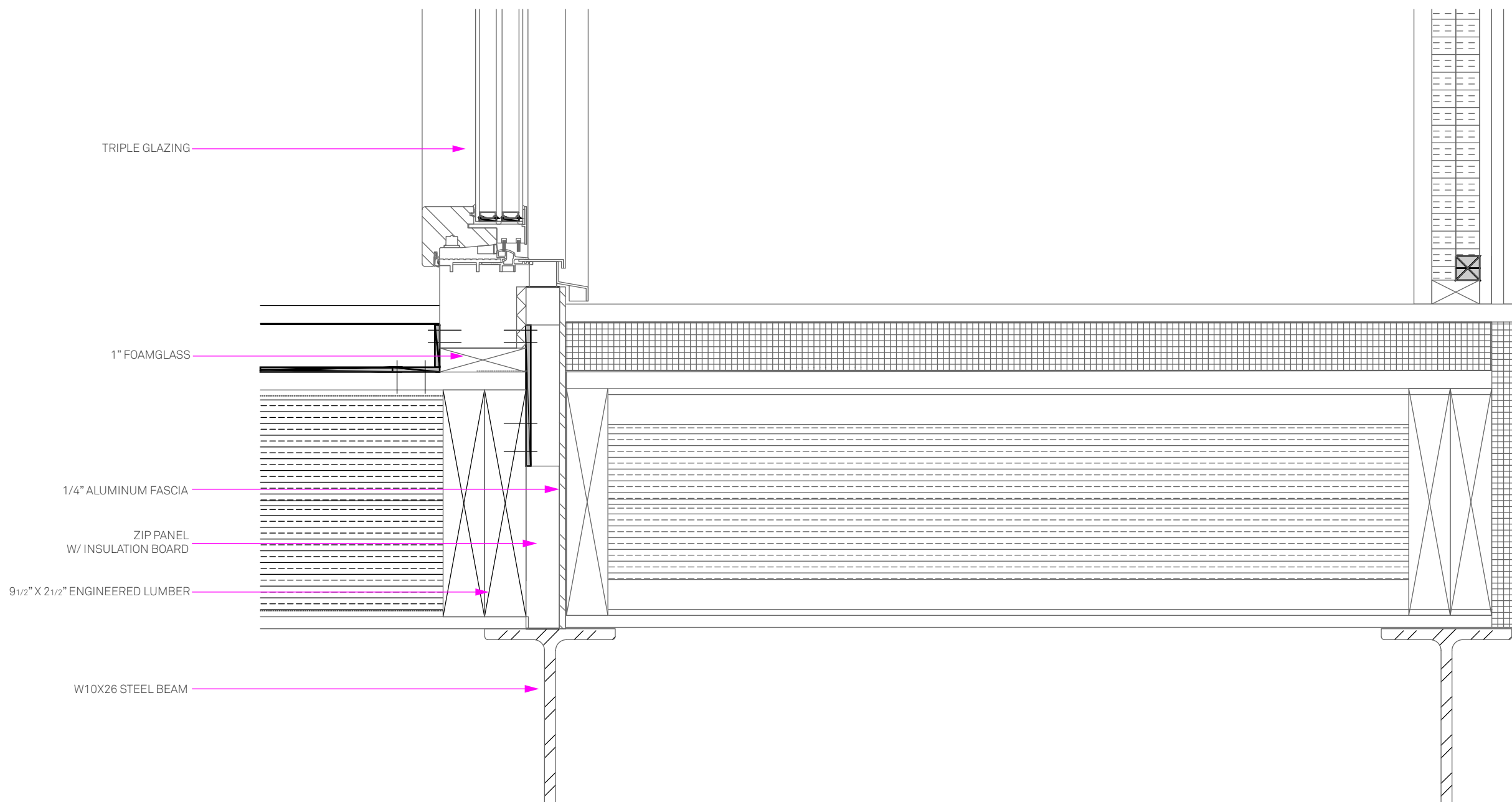
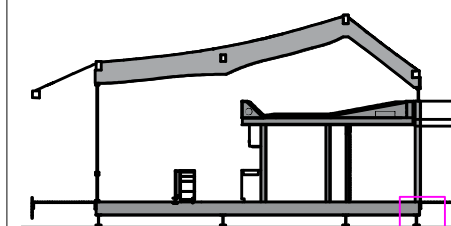
TECHSTYLE HAUS.

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TRIPLE GLAZING

1" FOAMGLASS

1/4" ALUMINUM FASCIA

ZIP PANEL
W/ INSULATION BOARD

9 1/2" X 2 1/2" ENGINEERED LUMBER

W10X26 STEEL BEAM

1 CORE TO FLOOR CONNECTION

STAMP

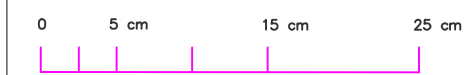
DRAWN BY: Giles Holt

CHECKED BY: Jonathan Knowles

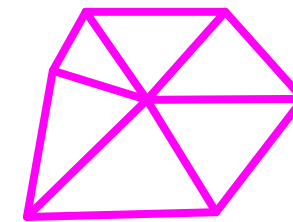
STATUS: Deliverable #7

DATE: 03 November 2014

SCALE: 1:20



AR-352



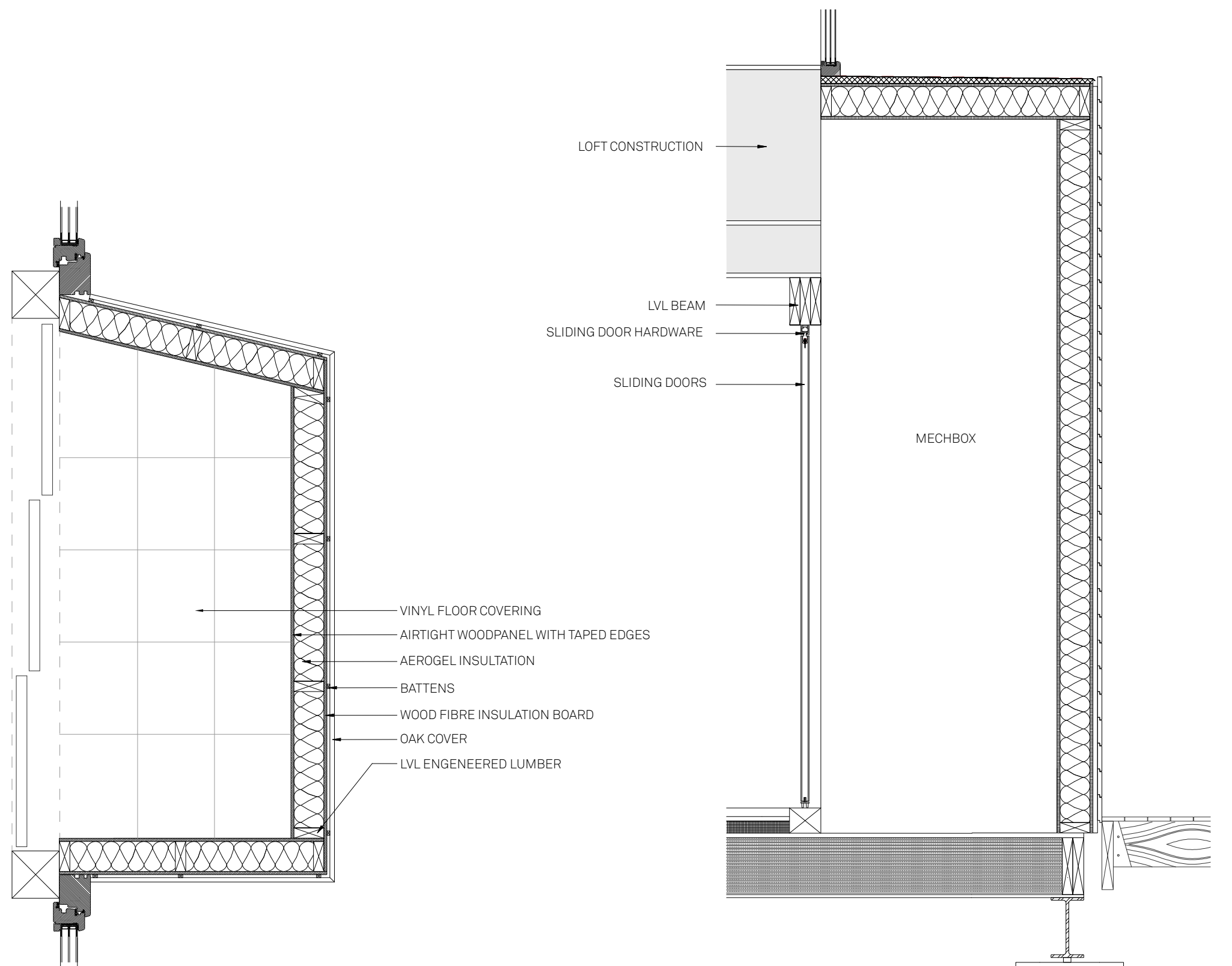
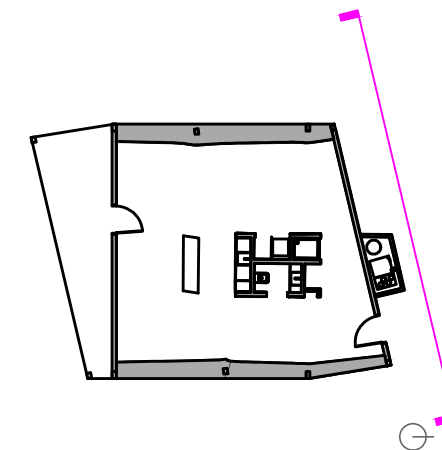
**TECHSTYLE
HAUS.**

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1 MECHANICAL BOX PLAN

1 MECHANICAL BOX SECTION

STAMP

DRAWN BY: Giles Holt

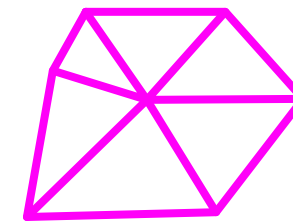
CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: VARIED

AR-353



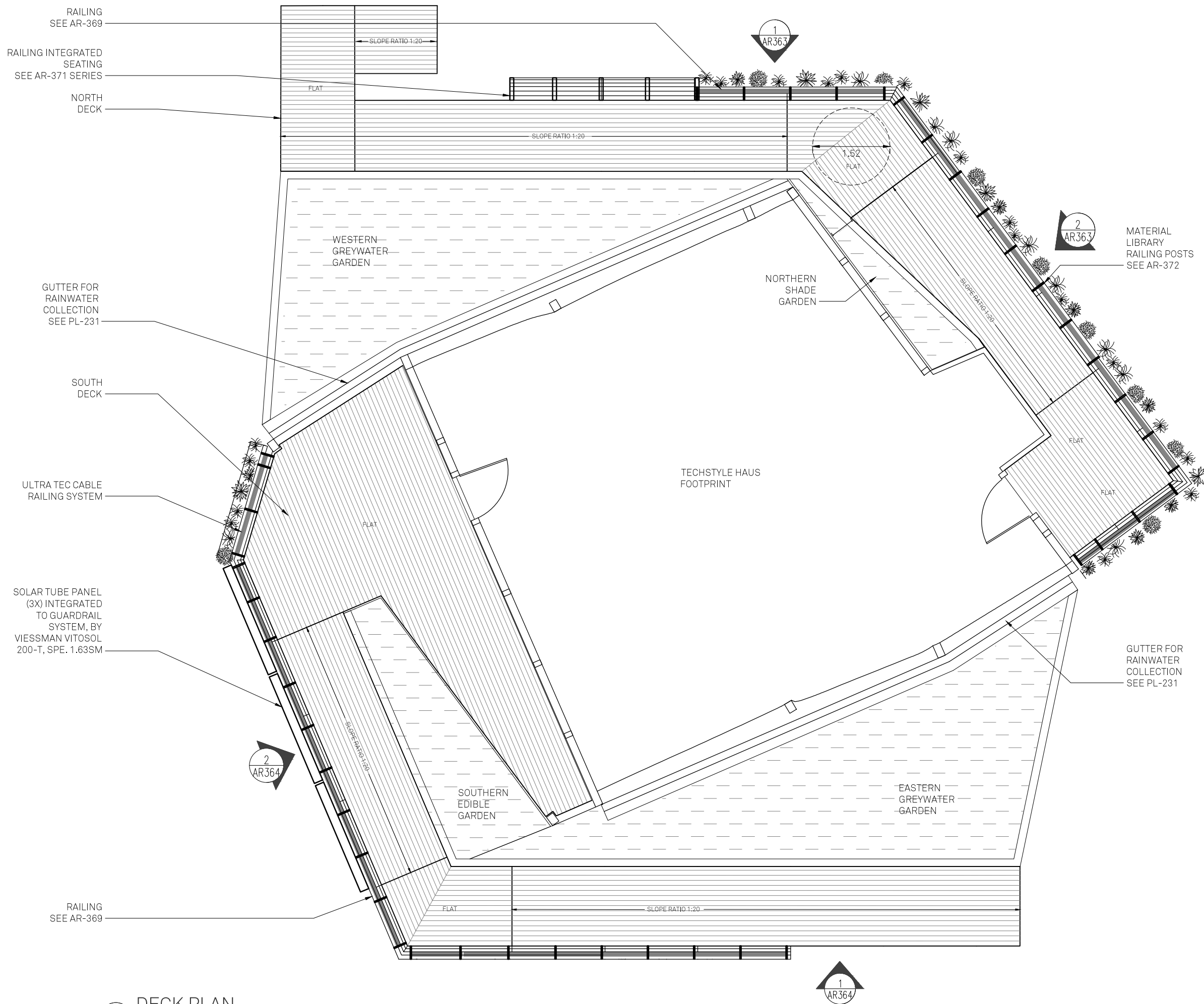
TECHSTYLE HAUS.

INSIDE OUT

BROWN UNIVERSITY
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FACHHOCHSCHULE ERFURT
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1 DECK PLAN

STAMP

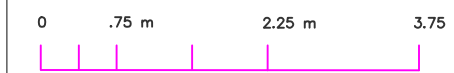
DRAWN BY: Jean Fuh

CHECKED BY: Jonathan Knowles

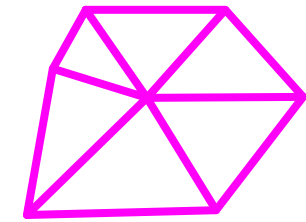
STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: 1:75



AR-361



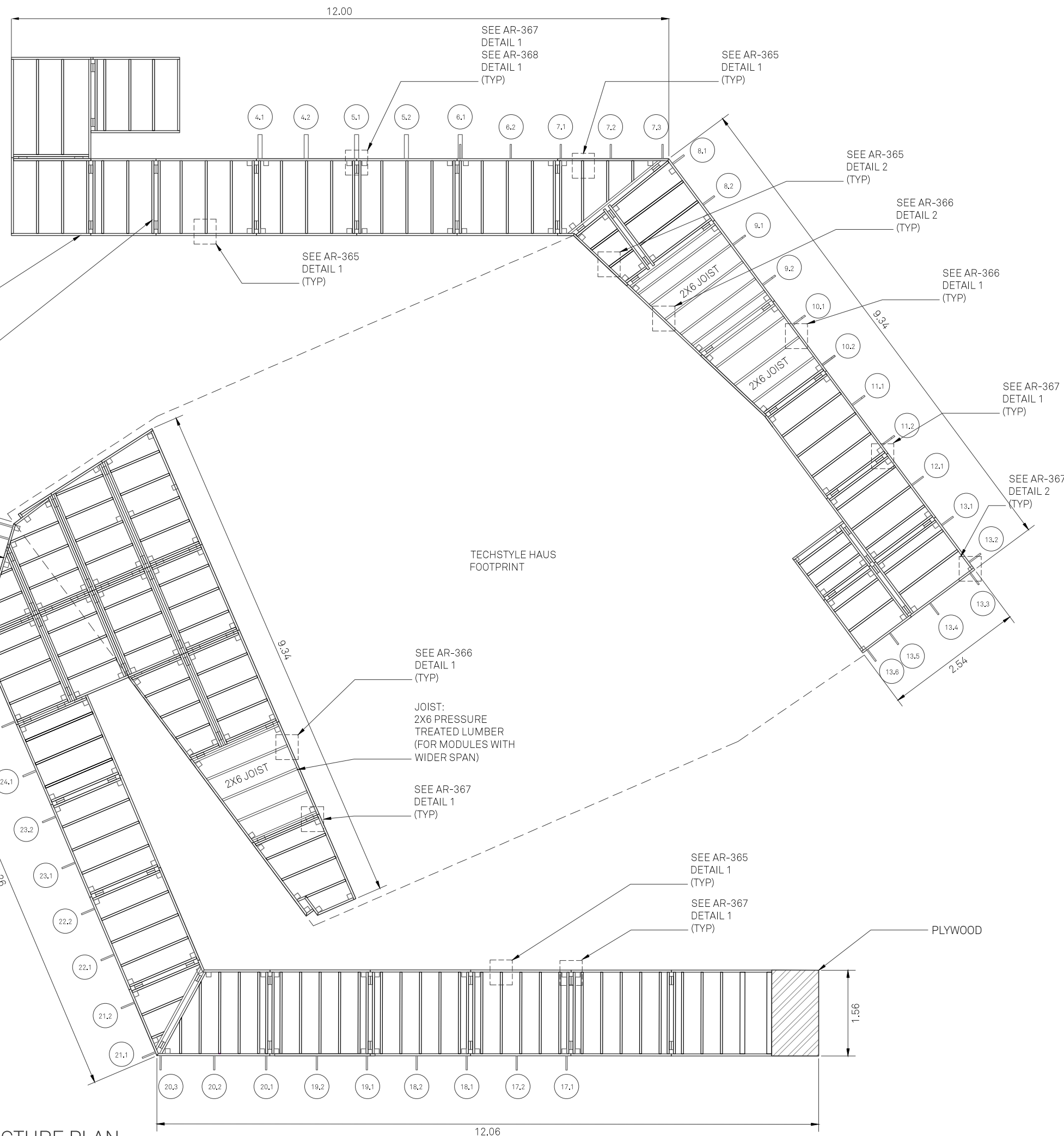
**TECHSTYLE
HAUS.**

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BEAM:
2x8 PRESSURE
TREATED LUMBER
(TYP)

JOIST:
2x4 PRESSURE
TREATED LUMBER
(TYP)

POST:
4x4 PRESSURE
TREATED LUMBER
(TYP.)

NOTE: HARDWARE
BY SIMPSON STRONG-TIE;
Z MAX COATED,
GALVANIZED FOR
EXTERIOR USE

TYPICAL DECK MODULES
TO BE BUILT WITH 2x4
JOISTS UNLESS
OTHERWISE NOTED.

TOTAL PALLETTE: 37

TECHSTYLE HAUS
FOOTPRINT

PLYWOOD

2 DECK STRUCTURE PLAN

STAMP

DRAWN BY: Jean Fuh

CHECKED BY: Jonathan Knowles

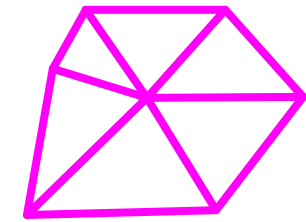
STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: 1:75



AR-362



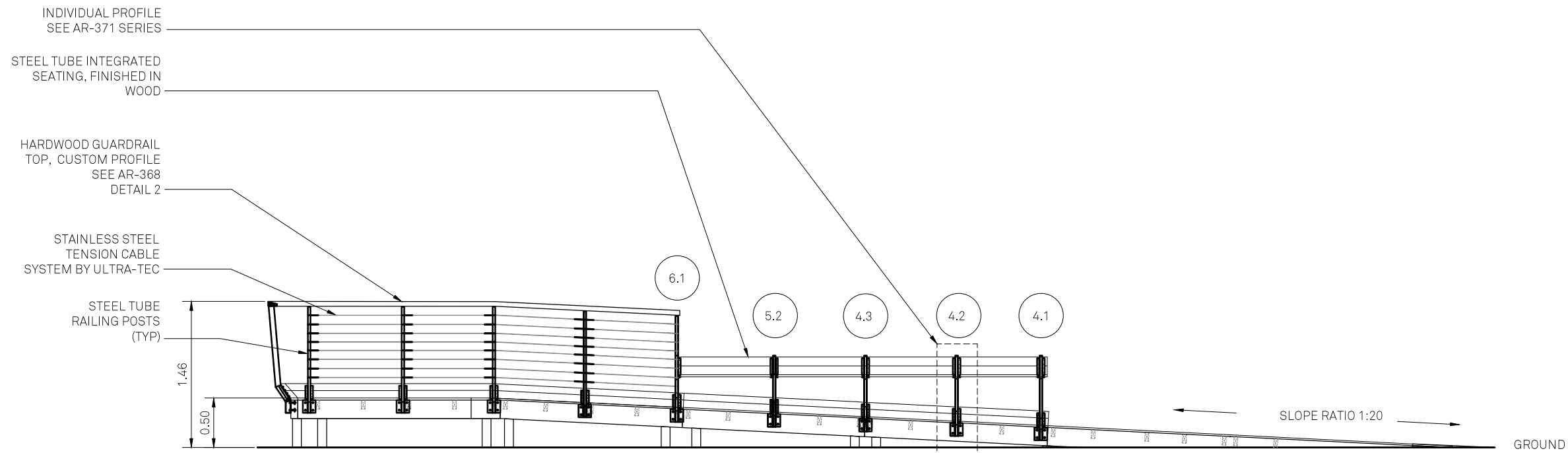
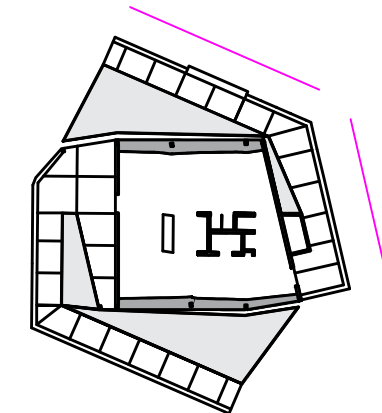
**TECHSTYLE
HAUS.**

INSIDE OUT

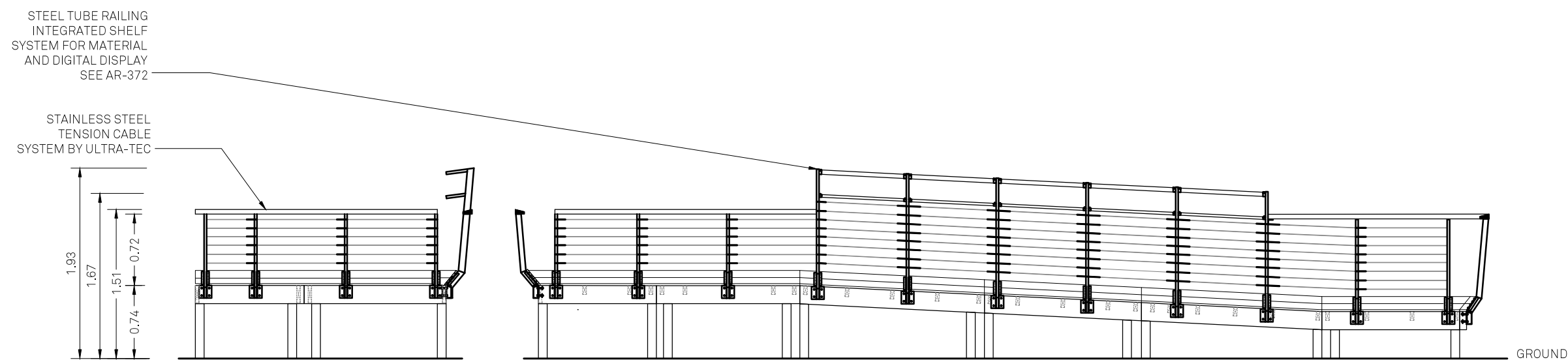
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1 DECK ELEVATION - NORTH WEST



2 DECK ELEVATION - NORTH EAST

STAMP

DRAWN BY: Jean Fuh

CHECKED BY: Jonathan Knowles

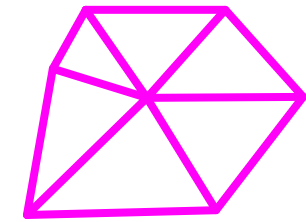
STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: 1:50



AR-363



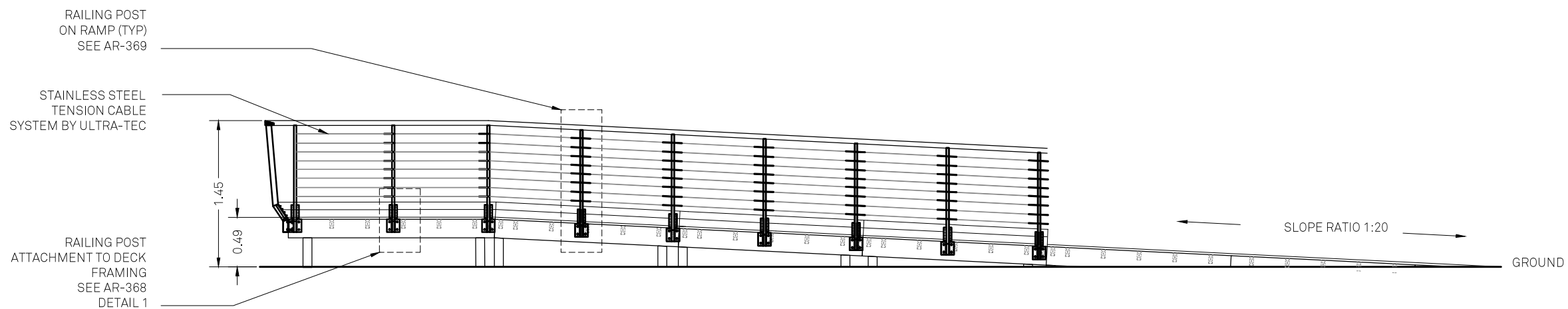
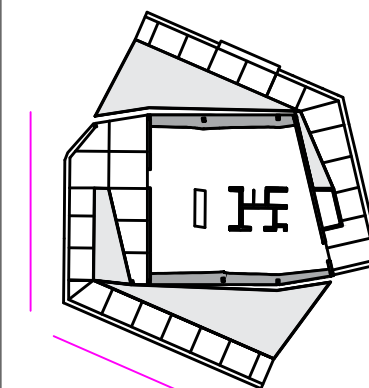
**TECHSTYLE
HAUS.**

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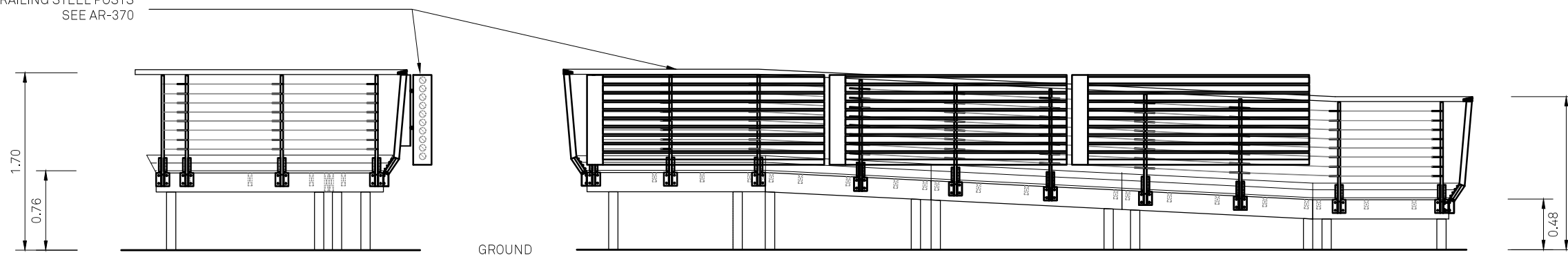
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1 DECK ELEVATION - SOUTH EAST

SOLAR TUBE PANEL (3X)
INTEGRATED TO
GUARDRAIL SYSTEM, BY
VISSMAN VITOSOL 200-T,
SPE. 1.63SM

SOLAR TUBE PANELS
TO BE INSTALLED TO WELDED
STEEL ANGLES ON THE
EXTERIOR FACE OF THE DECK
RAILING STEEL POSTS
SEE AR-370



2 DECK ELEVATION - SOUTH WEST

STAMP

DRAWN BY: Jean Fuh

CHECKED BY: Jonathan Knowles

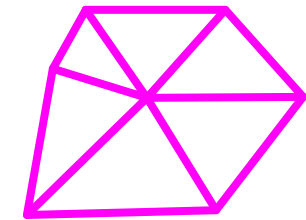
STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: 1:50



AR-364



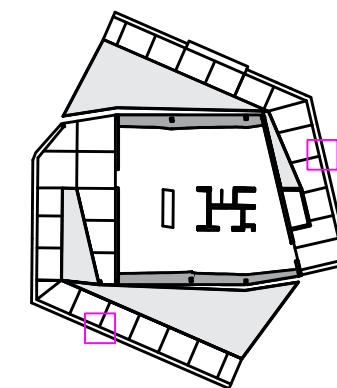
**TECHSTYLE
HAUS.**

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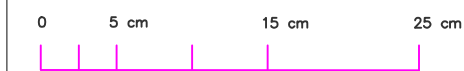
DRAWN BY: Jean Fuh

CHECKED BY: Jonathan Knowles

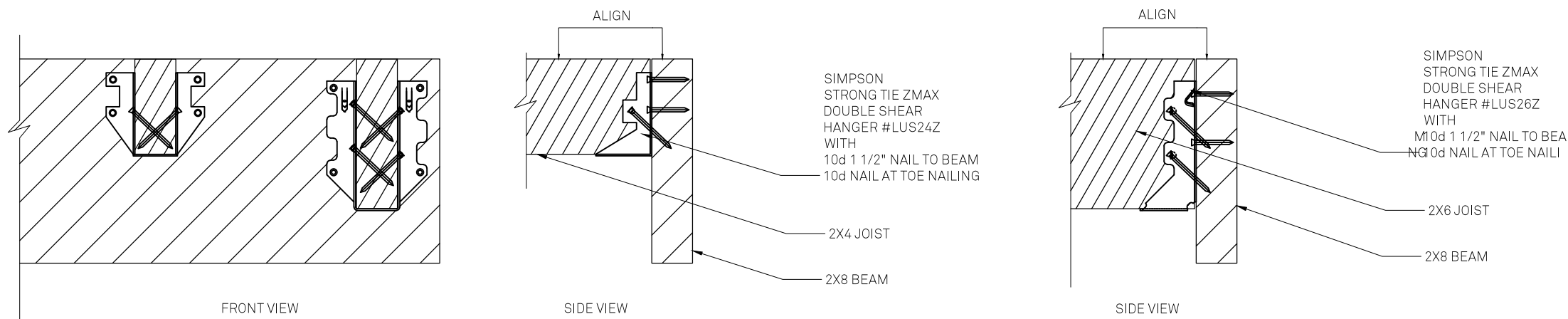
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DATE: 03 November, 2014

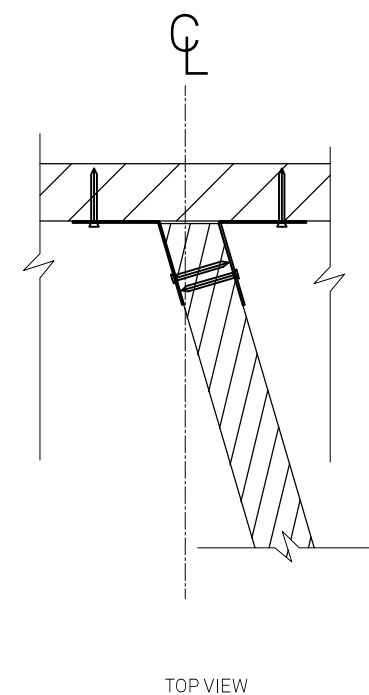
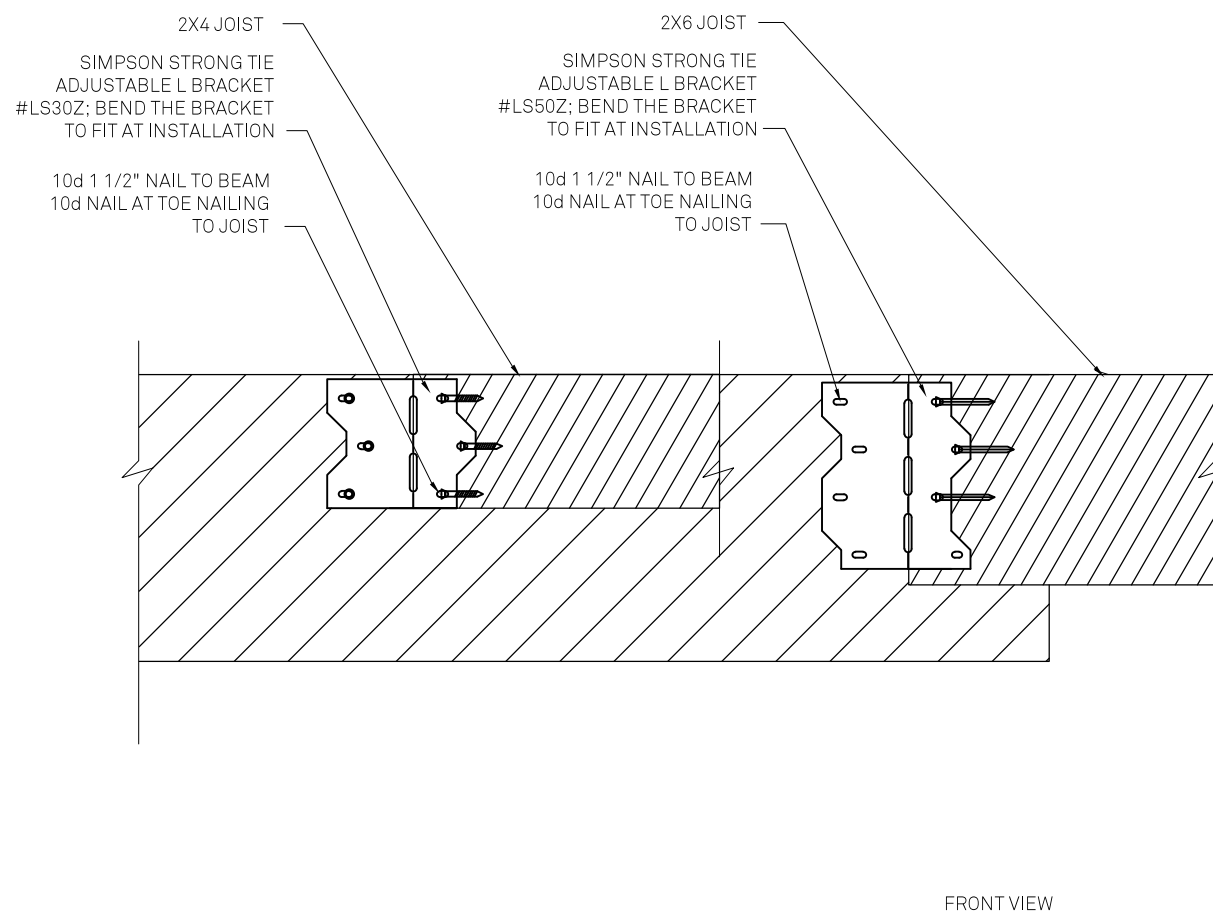
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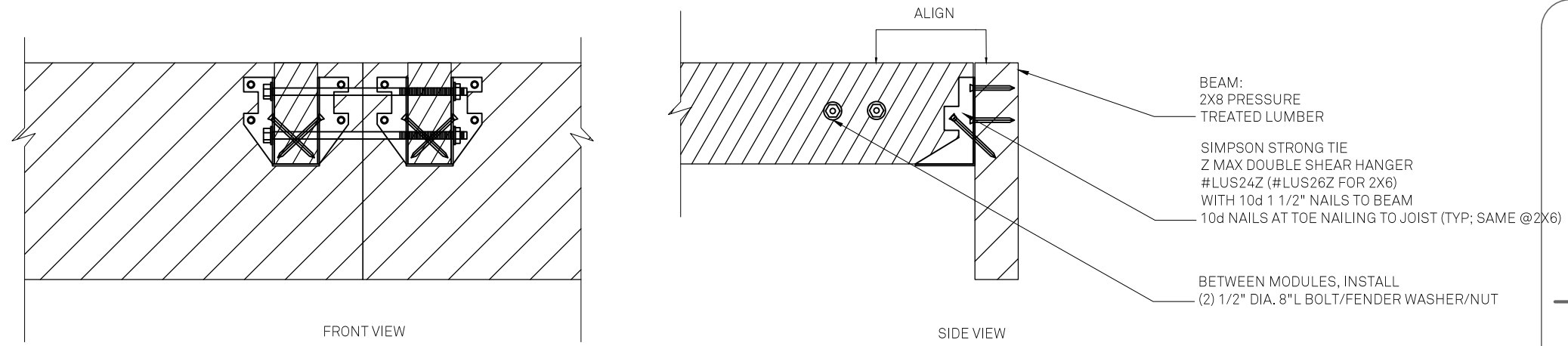
AR-365



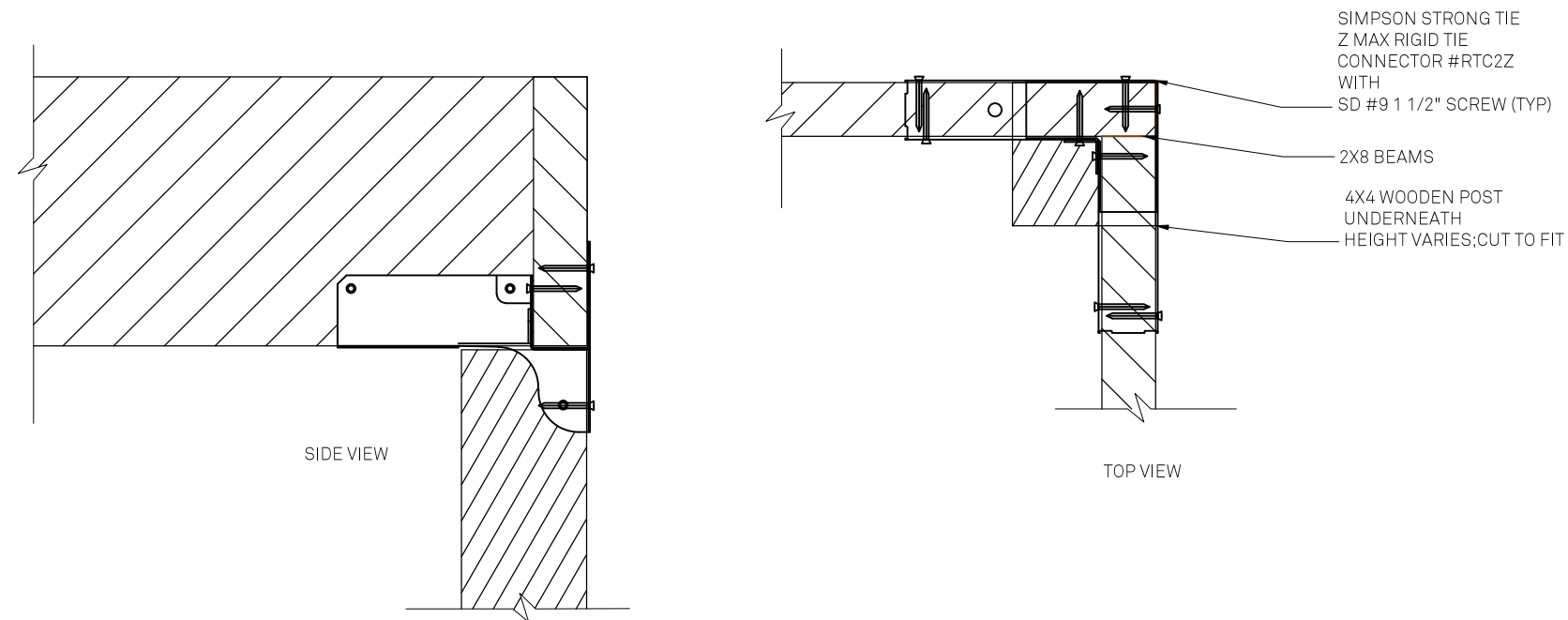
1 DECK DETAIL - 2X4 & 2X6 JOIST TO BEAM CONNECTION - 90 DEGREE



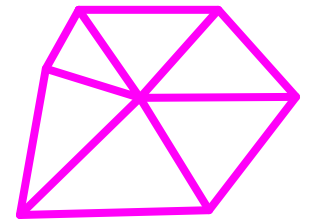
2 DECK DETAIL - 2X4 & 2X6 JOIST TO BEAM CONNECTION - ANGLED



1 DECK DETAIL - MODULE TO MODULE CONNECTION



2 DECK DETAIL - 2X8 BEAM TO BEAM CONNECTION - CORNER



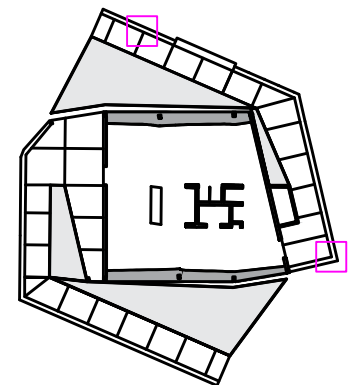
**TECHSTYLE
HAUS.**

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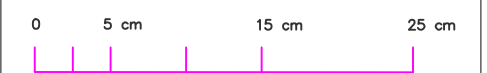
DRAWN BY: Jean Fuh

CHECKED BY: Jonathan Knowles

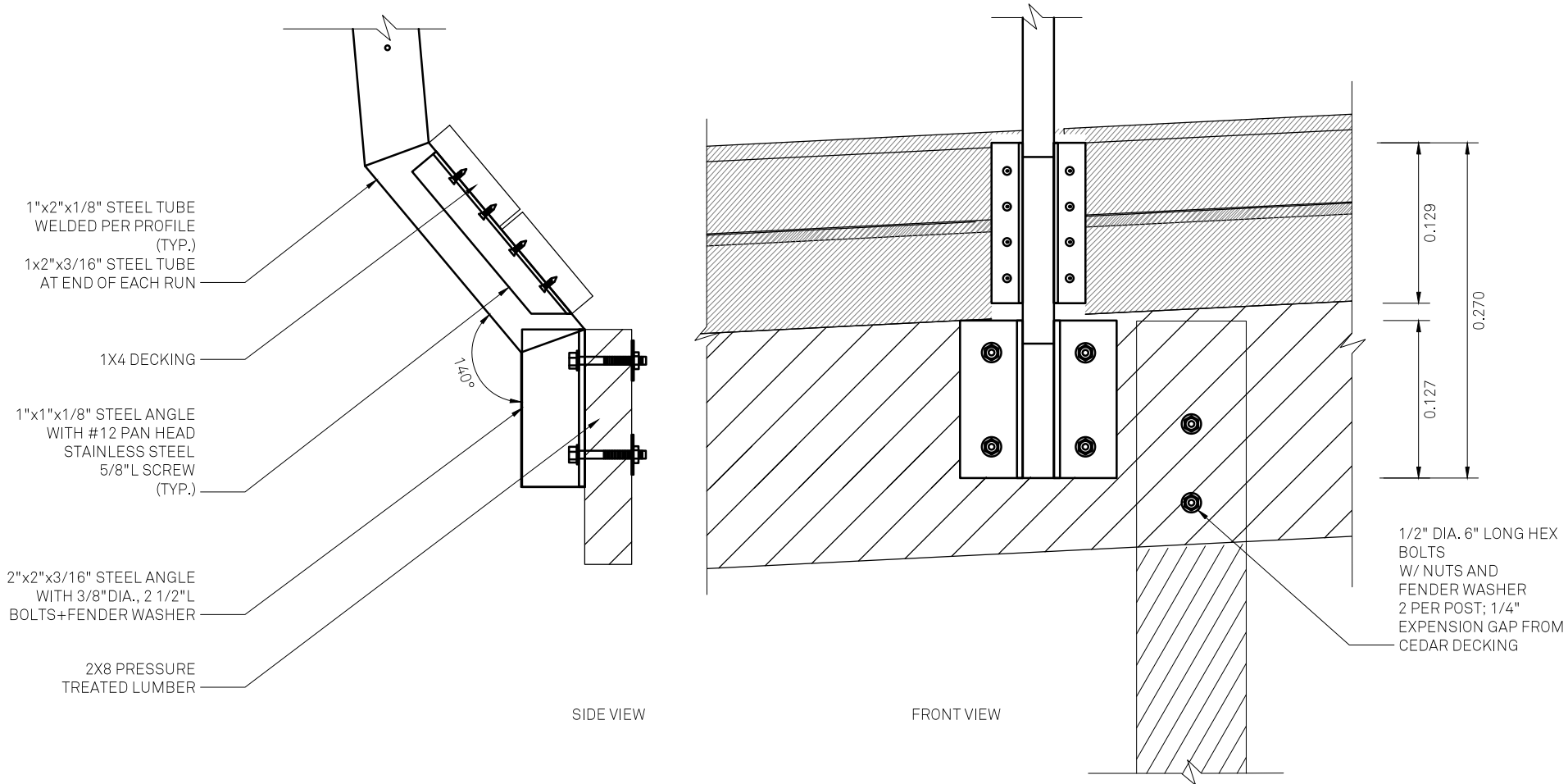
STATUS: Deliverable #7

DATE: 03 November, 2014

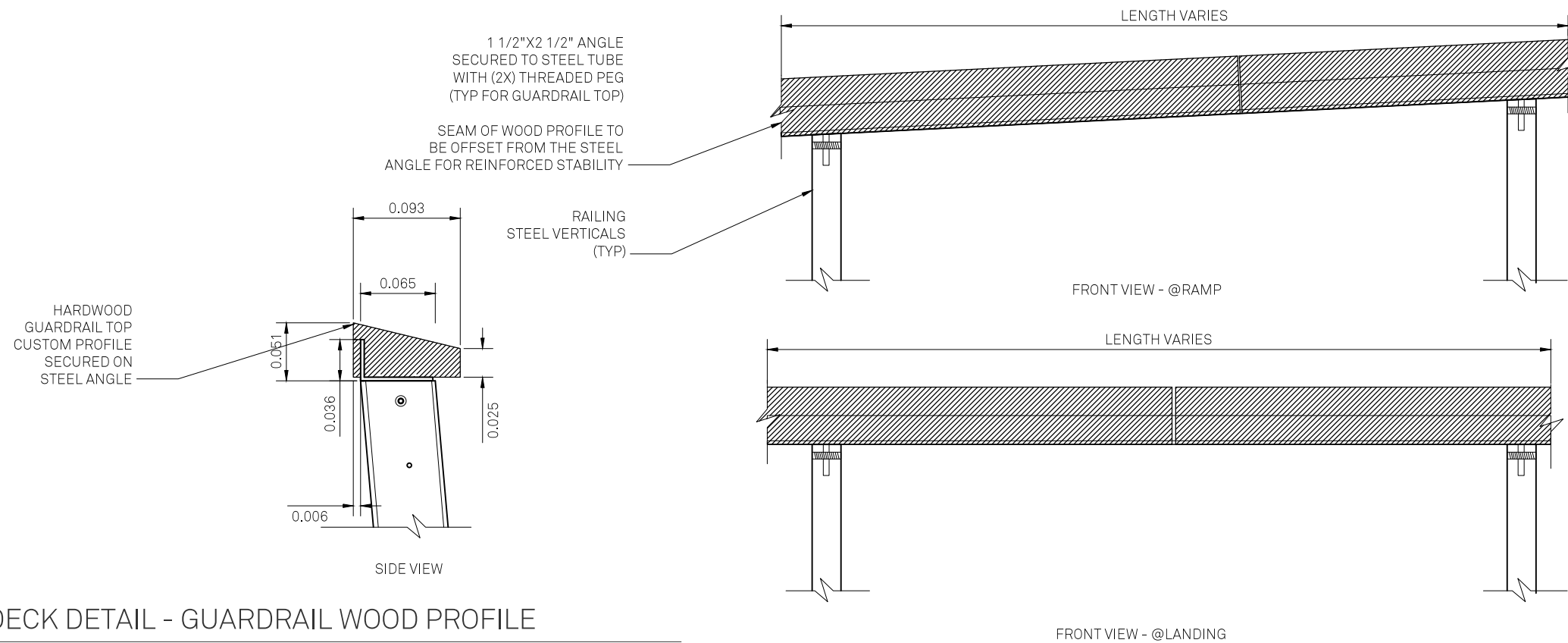
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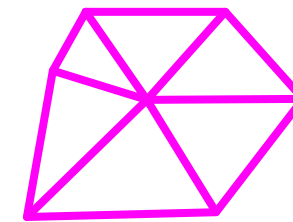
AR-366



1 DECK DETAIL - RAILING STEEL POST TO BEAM TO 4X4 POST CONNECTION (TYP)



2 DECK DETAIL - GUARDRAIL WOOD PROFILE



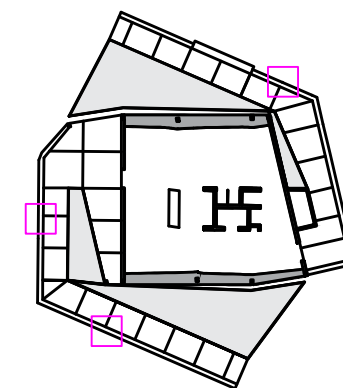
**TECHSTYLE
HAUS.**

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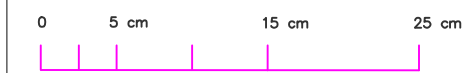
DRAWN BY: Jean Fuh

CHECKED BY: Jonathan Knowles

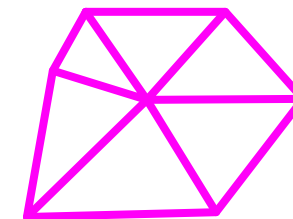
STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: 1:5



AR-367



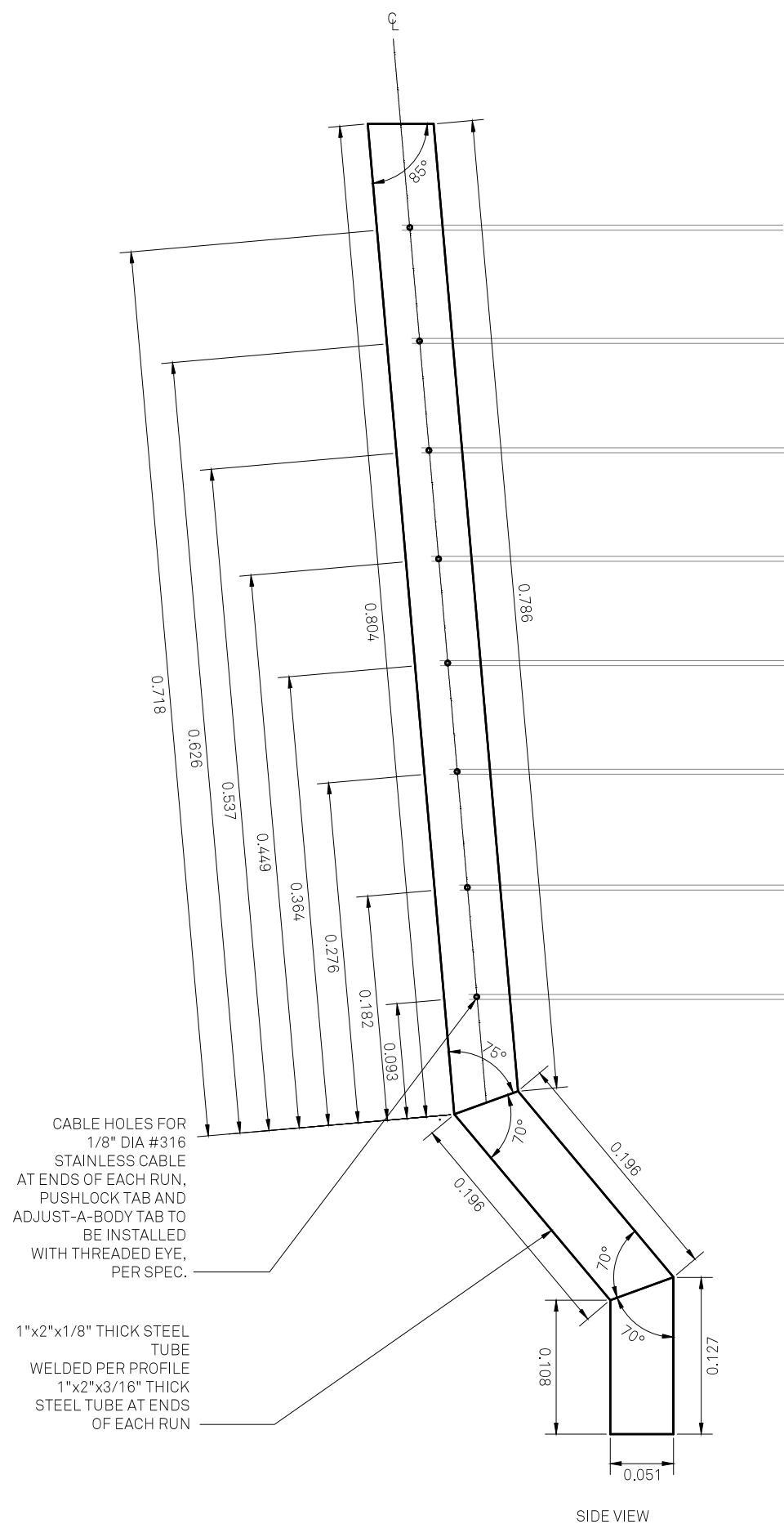
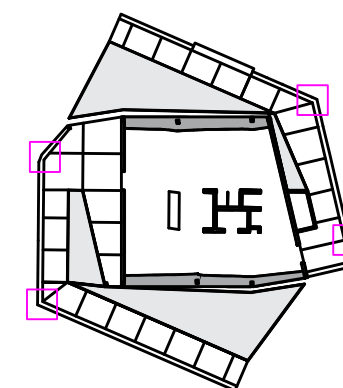
**TECHSTYLE
HAUS.**

INSIDE OUT

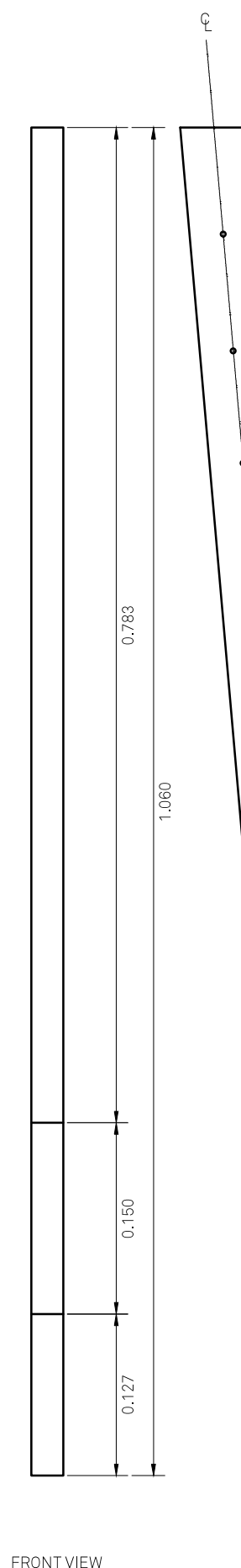
BROWN UNIVERSITY
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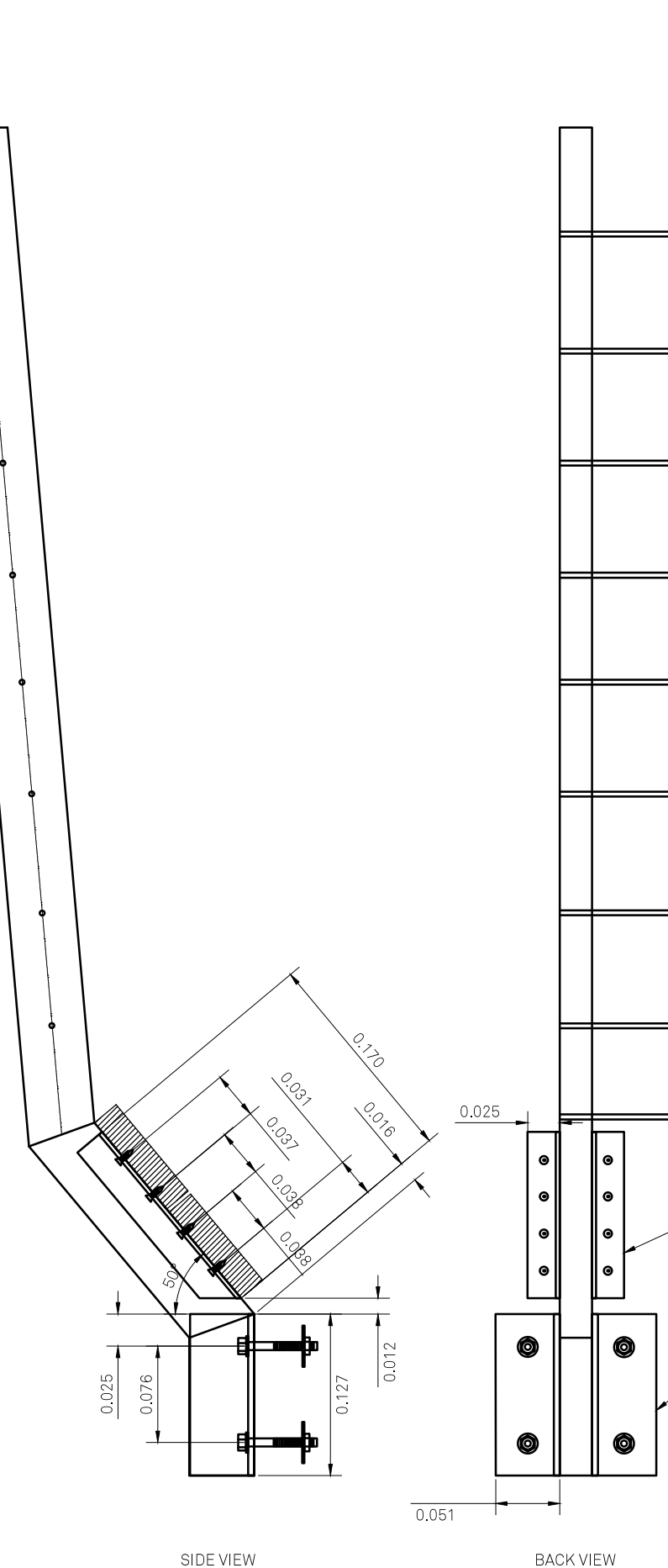
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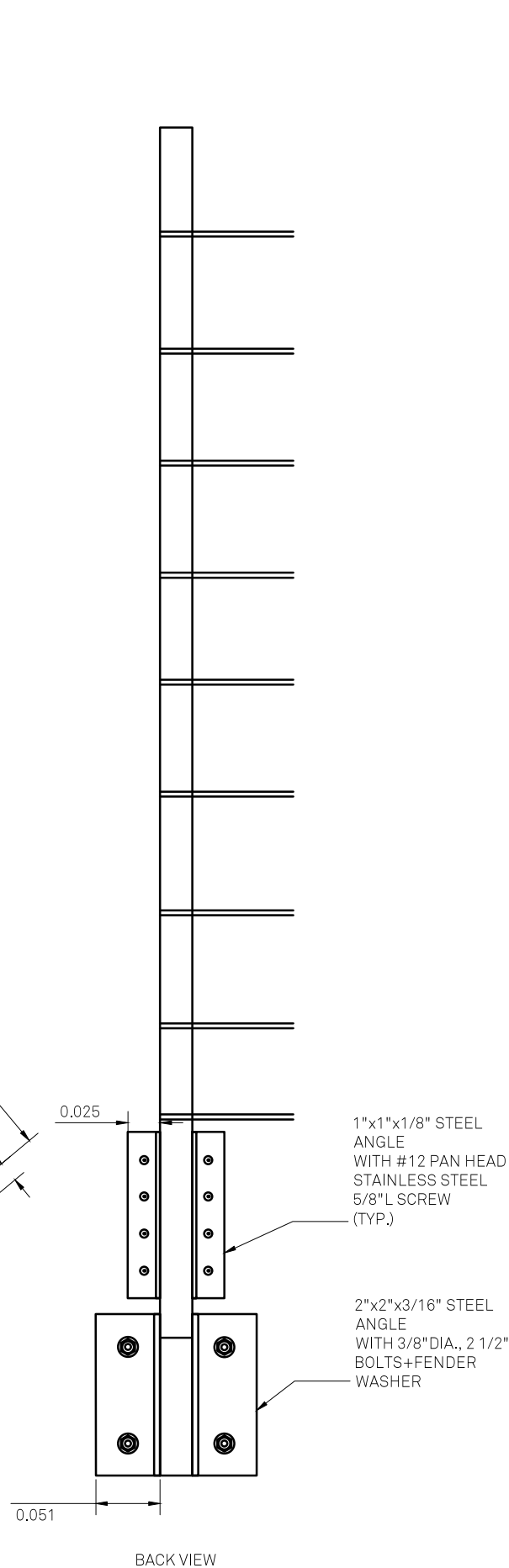
SIDE VIEW



FRONT VIEW



SIDE VIEW



BACK VIEW

1 DECK DETAIL - RAILING STEEL PROFILE 1 - TYP. GUARDRAIL

STAMP

DRAWN BY: Jean Fuh

CHECKED BY: Jonathan Knowles

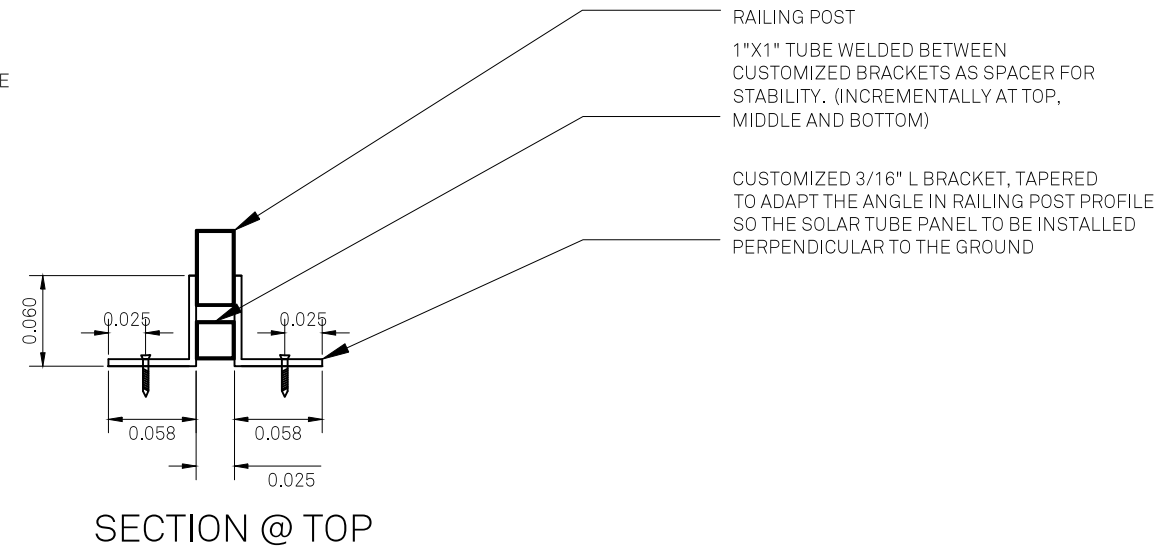
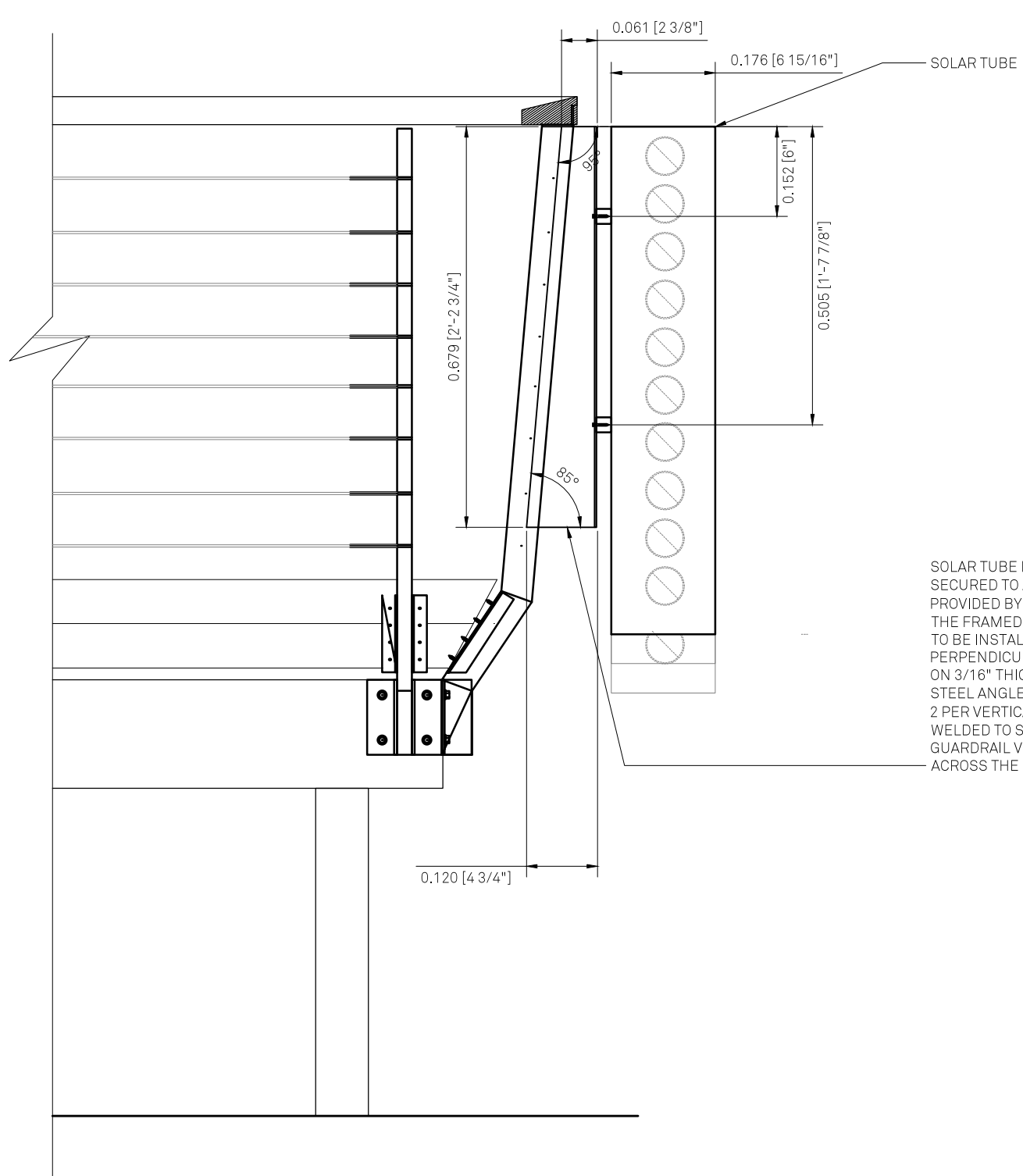
STATUS: Deliverable #7

DATE: 03 November, 2014

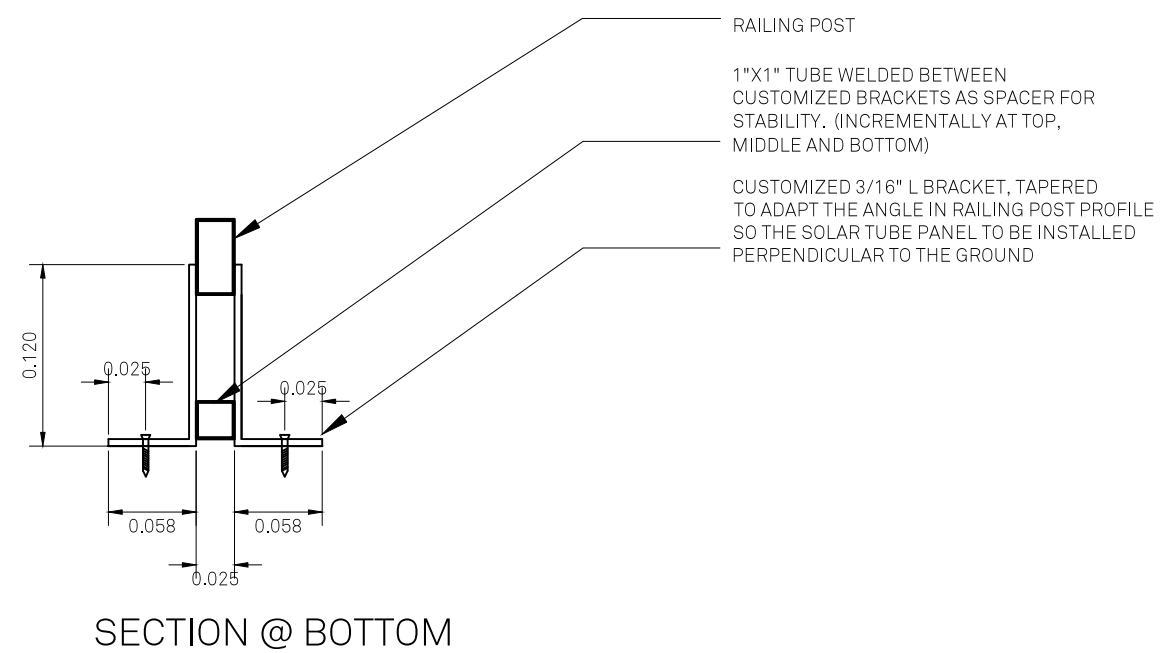
SCALE: 1:5



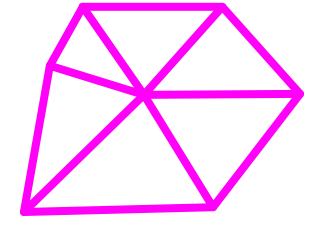
AR-368



SOLAR TUBE PANEL TO BE SECURED TO ALUM. FRAME (OPTION PROVIDED BY MANUFACTURER). THE FRAMED PANELS ARE TO BE INSTALLED PERPENDICULAR TO GROUND ON 3/16\"/>



1 DECK DETAIL - SOLAR TUBE PANEL INTEGRATION



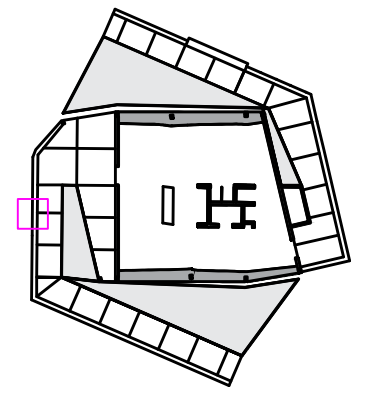
TECHSTYLE HAUS.

INSIDE OUT

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STAMP

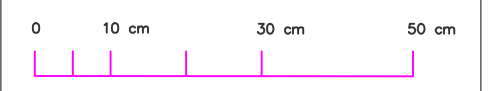
DRAWN BY: Jean Fuh

CHECKED BY: Jonathan Knowles

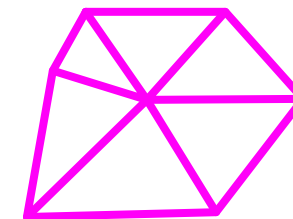
STATUS: Deliverable #7

DATE: 3 November, 2014

SCALE: 1:10



AR-369



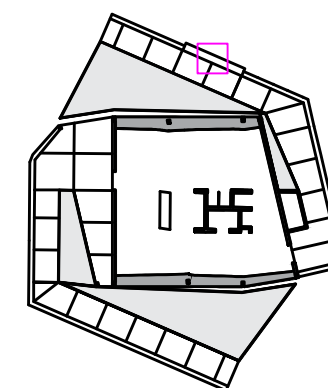
**TECHSTYLE
HAUS.**

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DRAWN BY: Jean Fuh

CHECKED BY: Jonathan Knowles

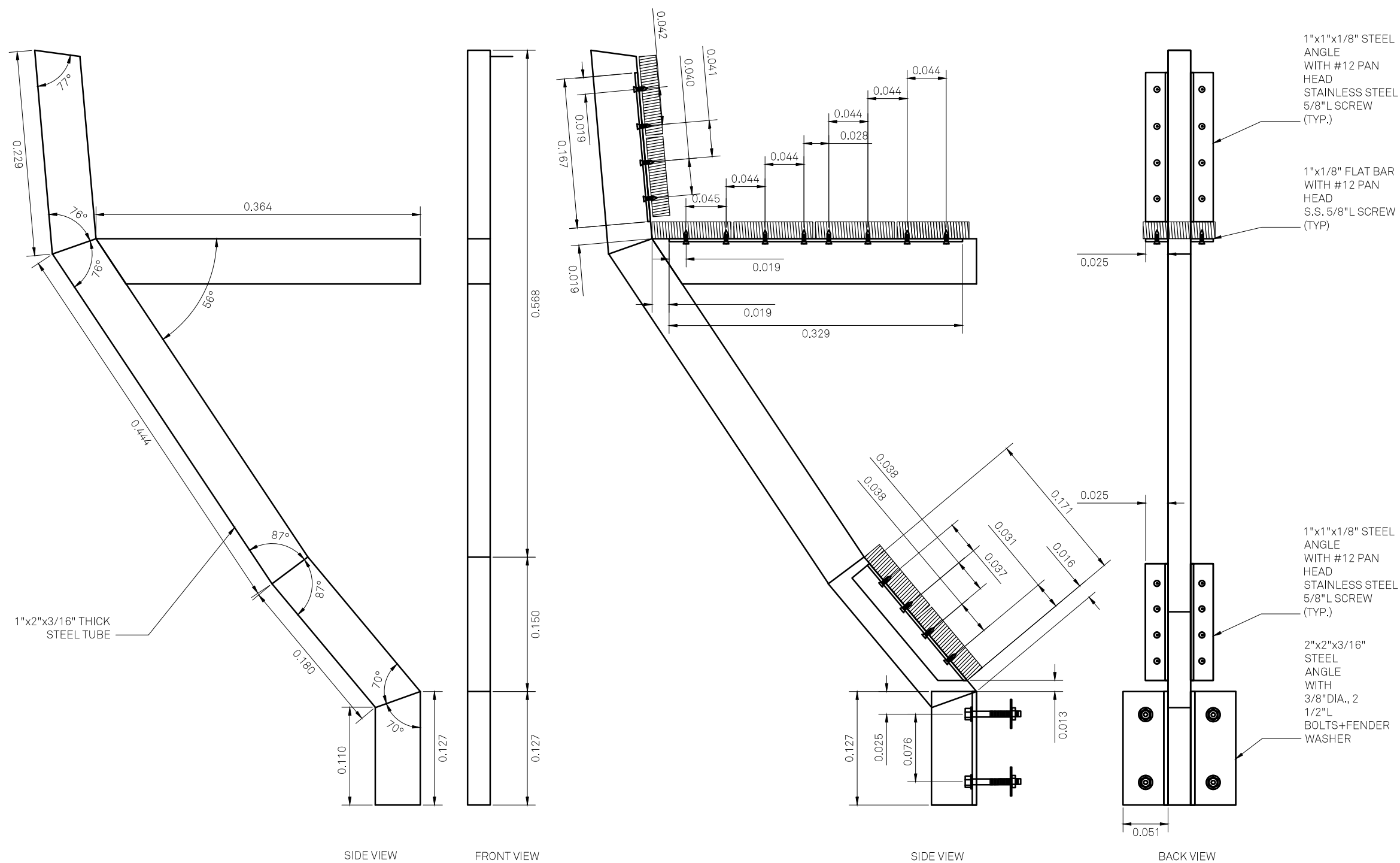
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DATE: 03 November, 2014

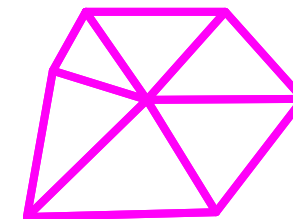
SCALE: 1:5



AR-370



1 DECK DETAIL - RAILING STEEL PROFILE 2 - SEATING - #4.1



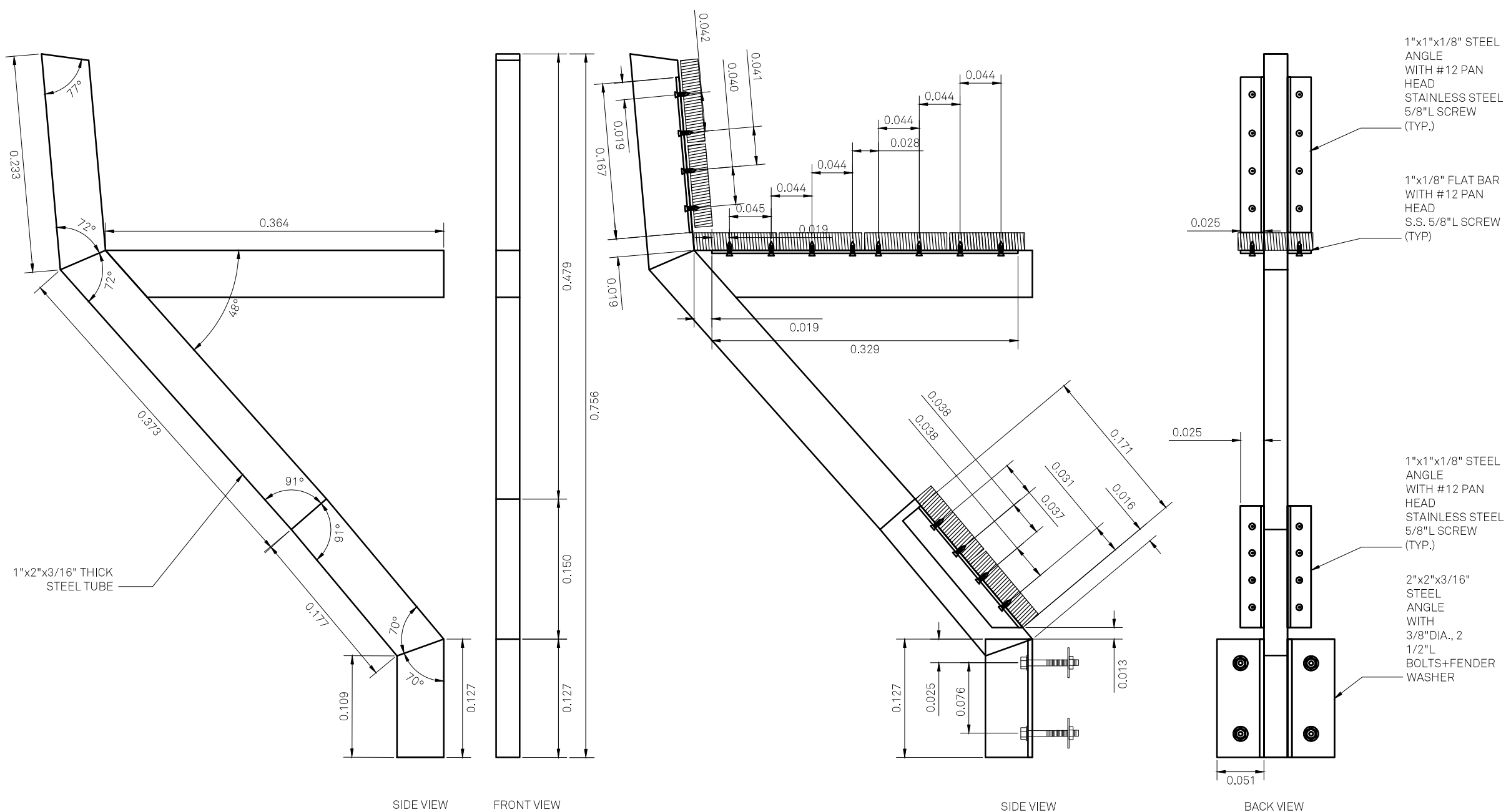
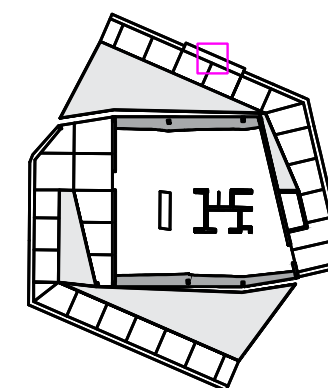
**TECHSTYLE
HAUS.**

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1 DECK DETAIL - RAILING STEEL PROFILE 2 - SEATING - #4.3

STAMP

DRAWN BY: Jean Fuh

CHECKED BY: Jonathan Knowles

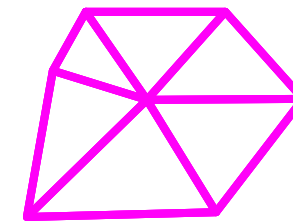
STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: 1:5



AR-372



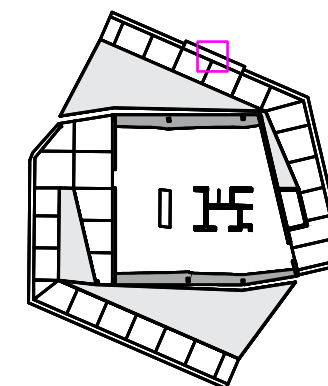
**TECHSTYLE
HAUS.**

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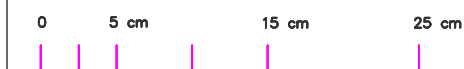
DRAWN BY: Jean Fuh

CHECKED BY: Jonathan Knowles

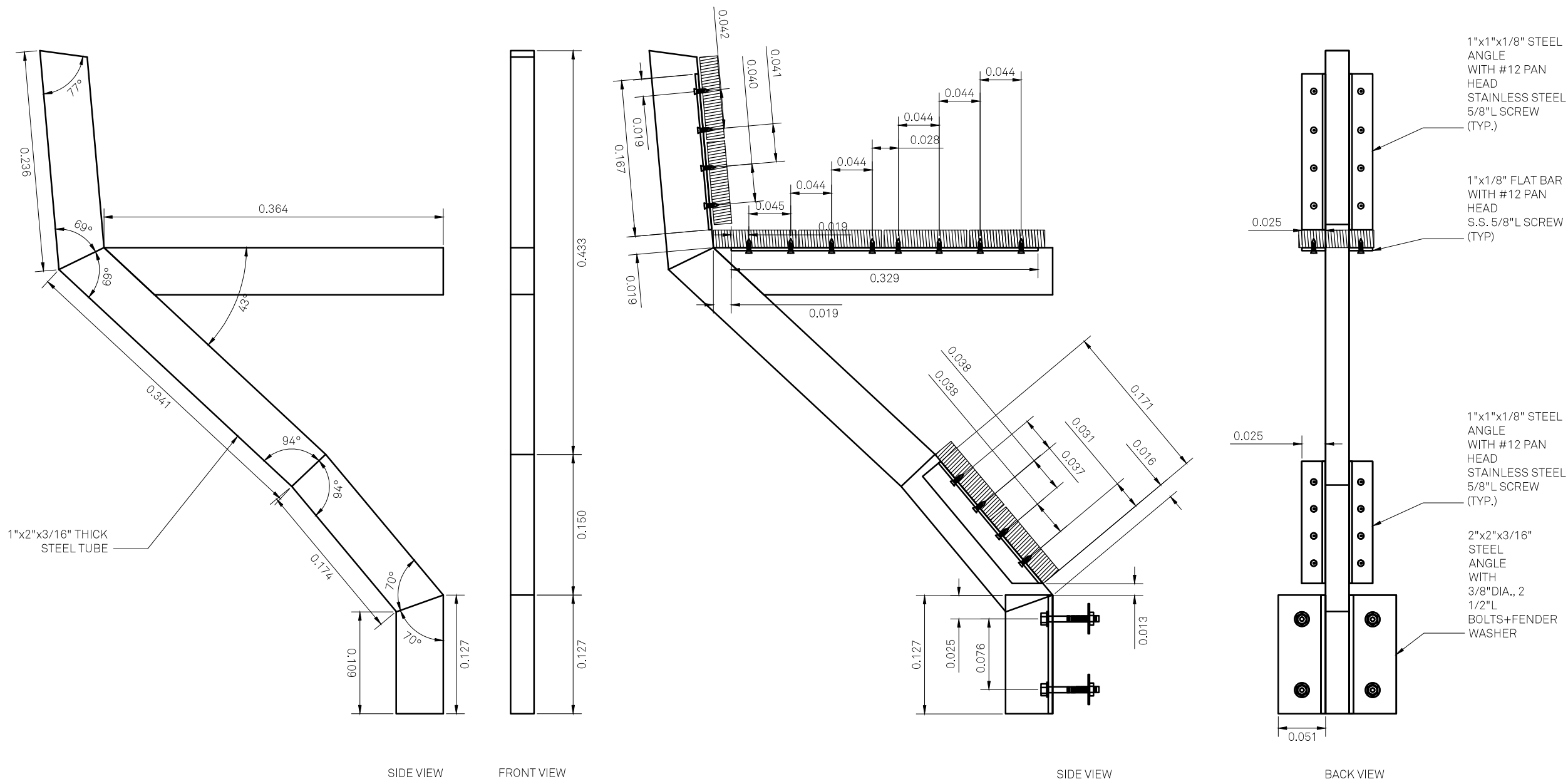
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DATE: 03 November, 2014

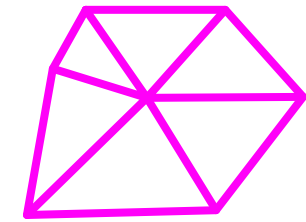
SCALE: 1:5



AR-373



1 DECK DETAIL - RAILING STEEL PROFILE 2 - SEATING - #5.2



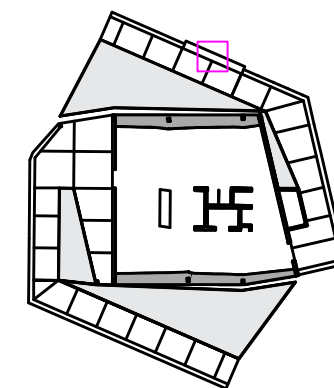
TECHSTYLE
HAUS.

INSIDE OUT

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STAMP

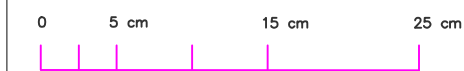
DRAWN BY: Jean Fuh

CHECKED BY: Jonathan Knowles

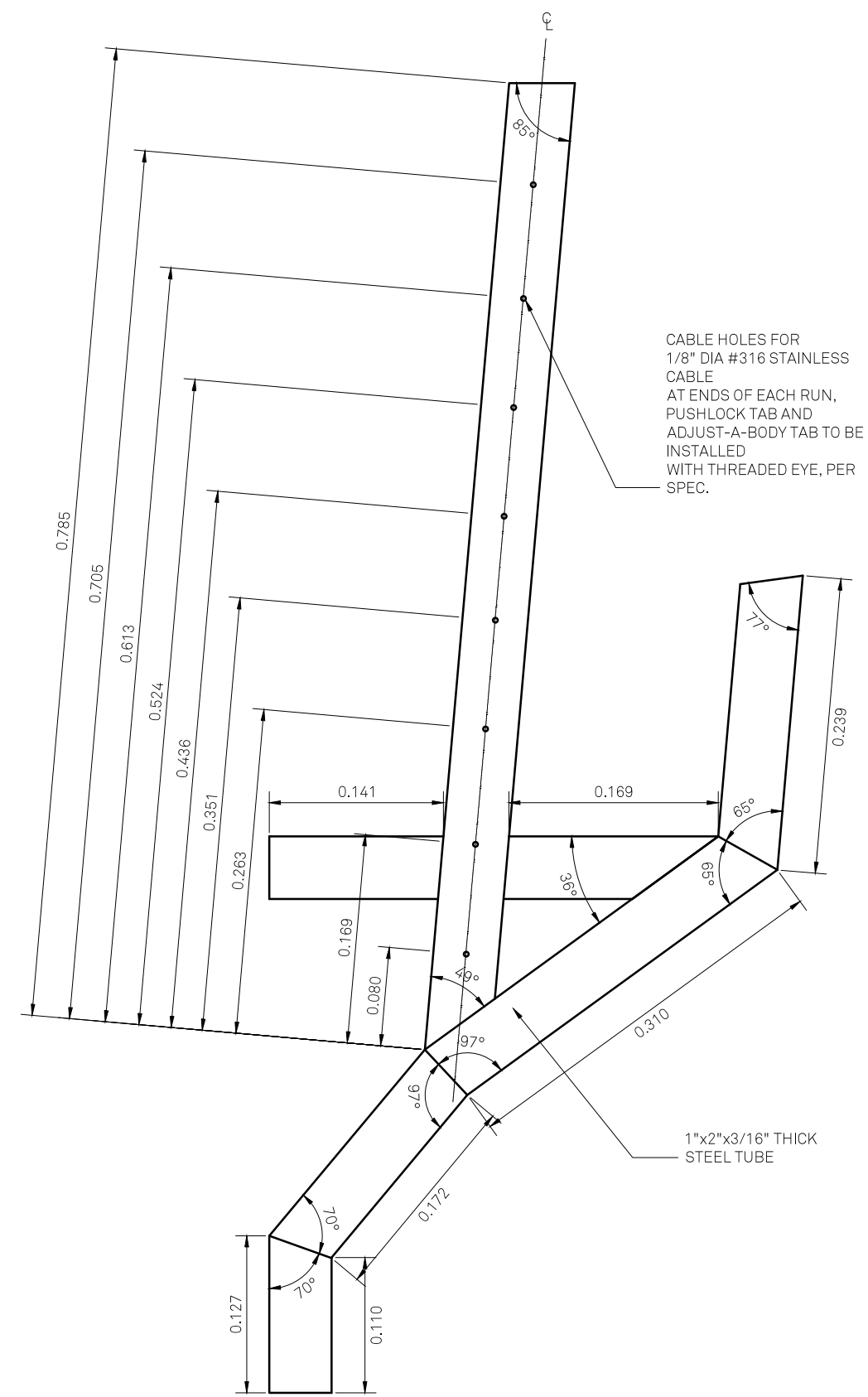
STATUS: Deliverable #7

DATE: 03 November, 2014

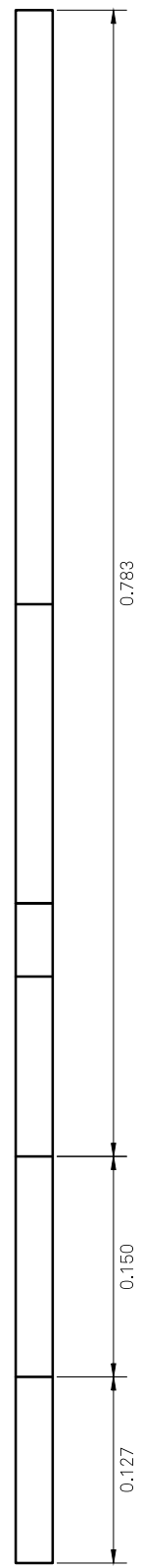
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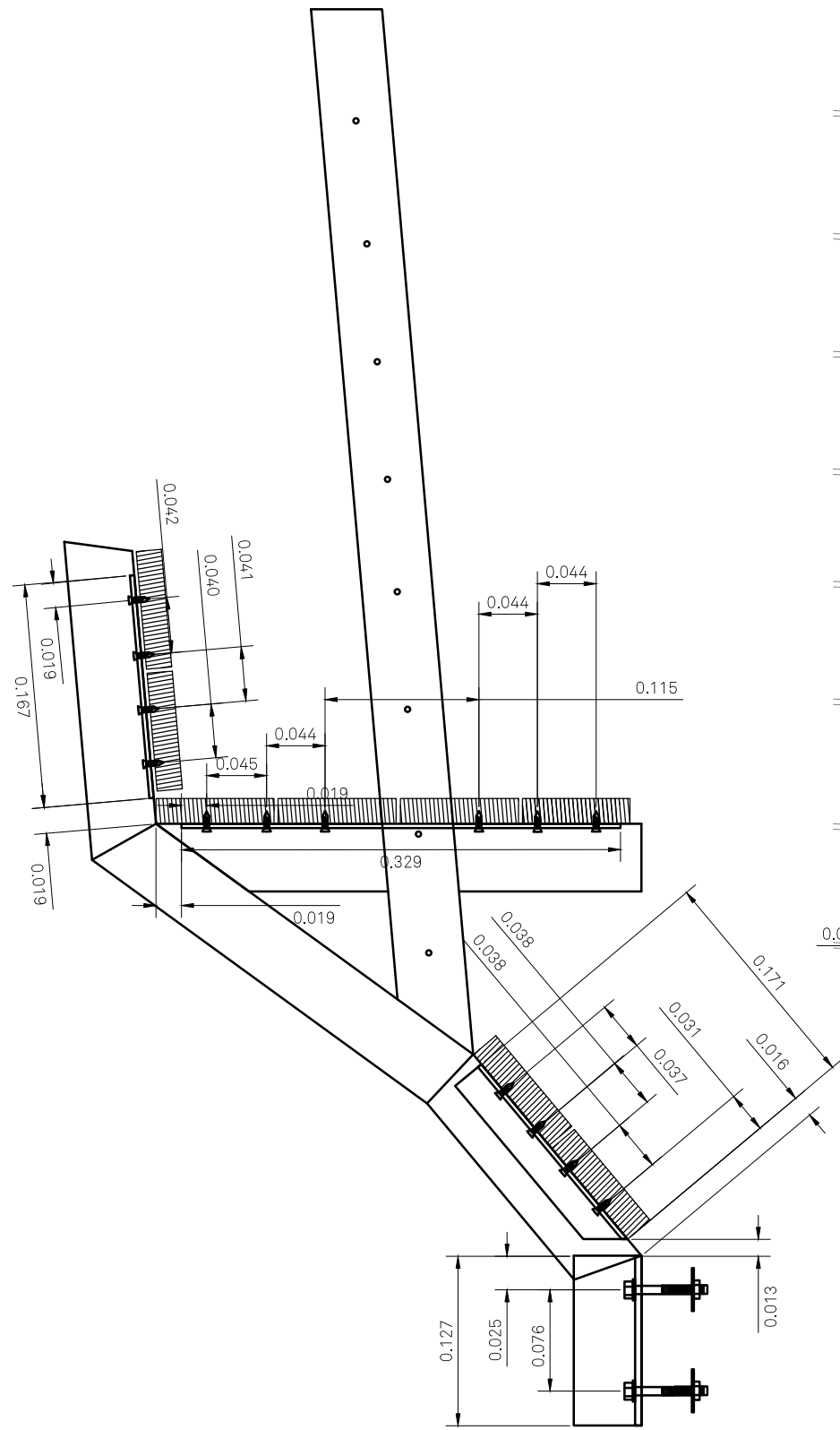
AR-374



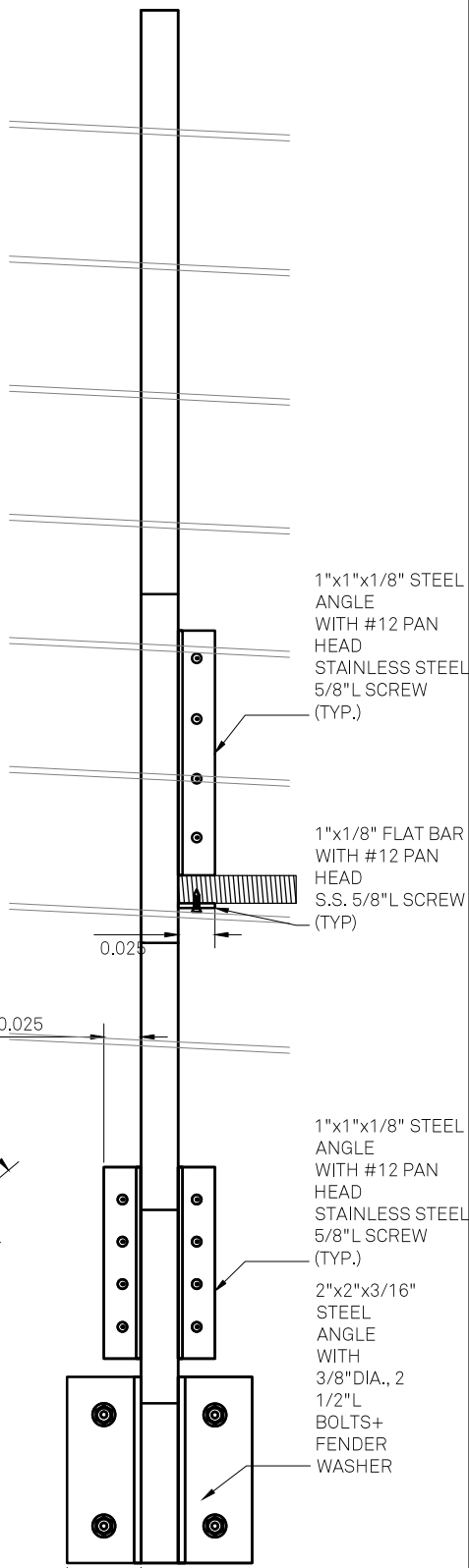
UPPER SIDE VIEW



FRONT VIEW



SIDE VIEW

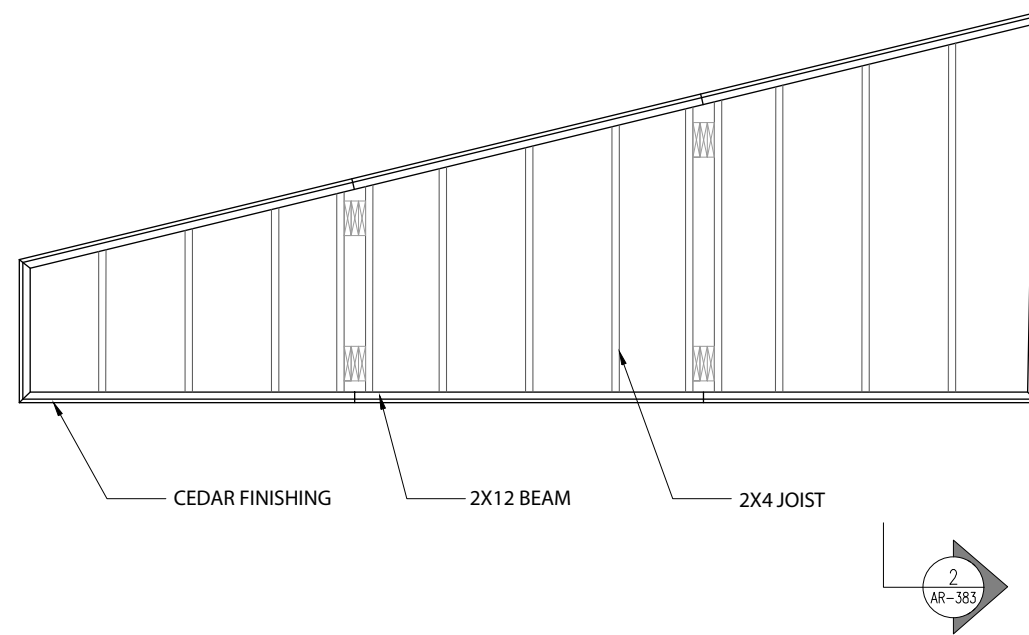


BACK VIEW

1 DECK DETAIL - RAILING STEEL PROFILE 2 - SEATING - #6.1

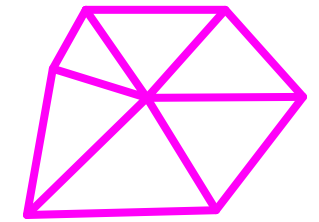


2 GREYWATER PLANTER FRAMING



1 SOUTHERN EDIBLE GARDEN FRAMING

PLANT LIST:
 CHIVES
 THYME
 ROSEMARY
 SAGE
 SAVOY CABBAGE
 WATERCRESS
 IRIS (NON EDIBLE)



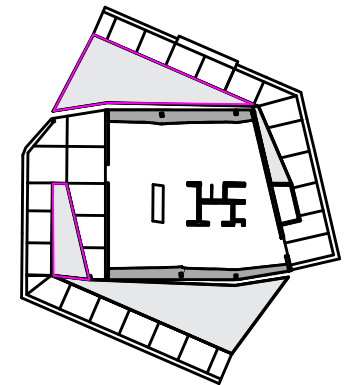
**TECHSTYLE
 HAUS.**

INSIDE OUT

BROWN UNIVERSITY
 75 Waterman Street
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 United States
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FACHHOCHSCHULE ERFURT
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 OF DESIGN
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STAMP

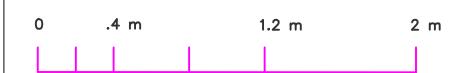
DRAWN BY: Jamie Graham

CHECKED BY: Jonathan Knowles

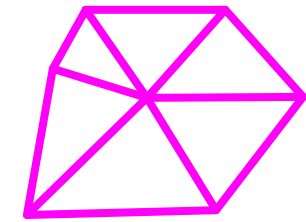
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DATE: 3 November, 2014

SCALE: 1:40



AR-381



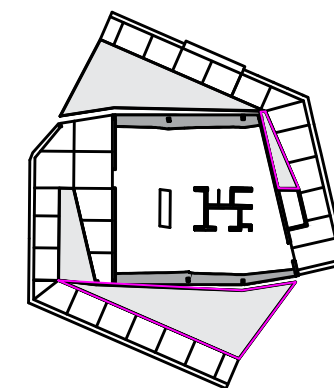
**TECHSTYLE
HAUS.**

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DRAWN BY: Jamie Graham

CHECKED BY: Jonathan Knowles

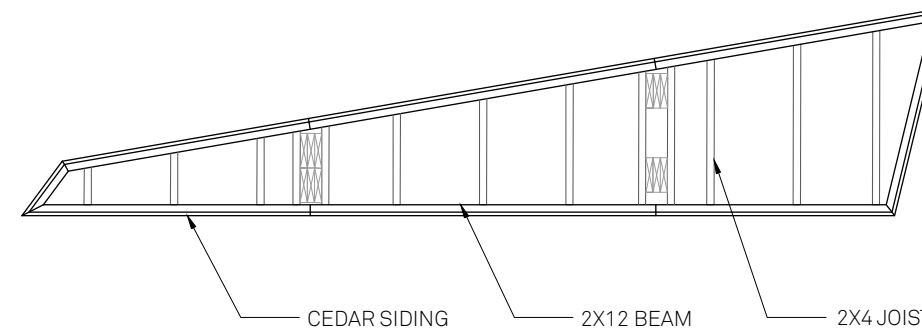
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DATE: 3 November, 2014

SCALE: 1:40

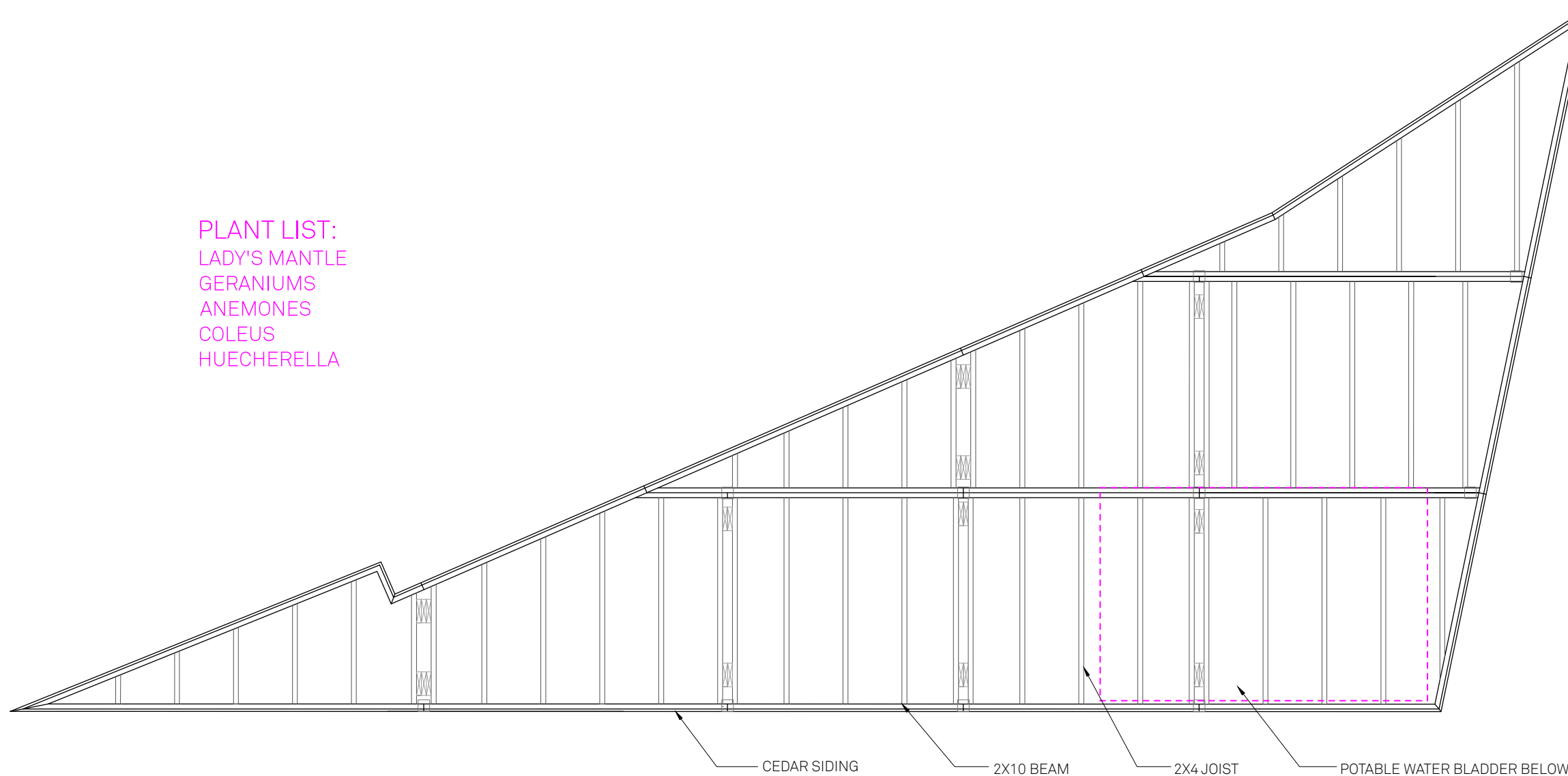


AR-382

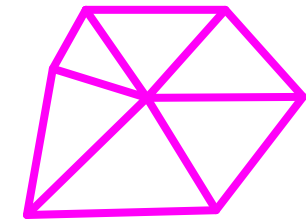


2 NORTH SHADE GARDEN FRAMING

PLANT LIST:
LADY'S MANTLE
GERANIUMS
ANEMONES
COLEUS
HUECHERELLA



1 GREY WATER PLANTER FRAMING



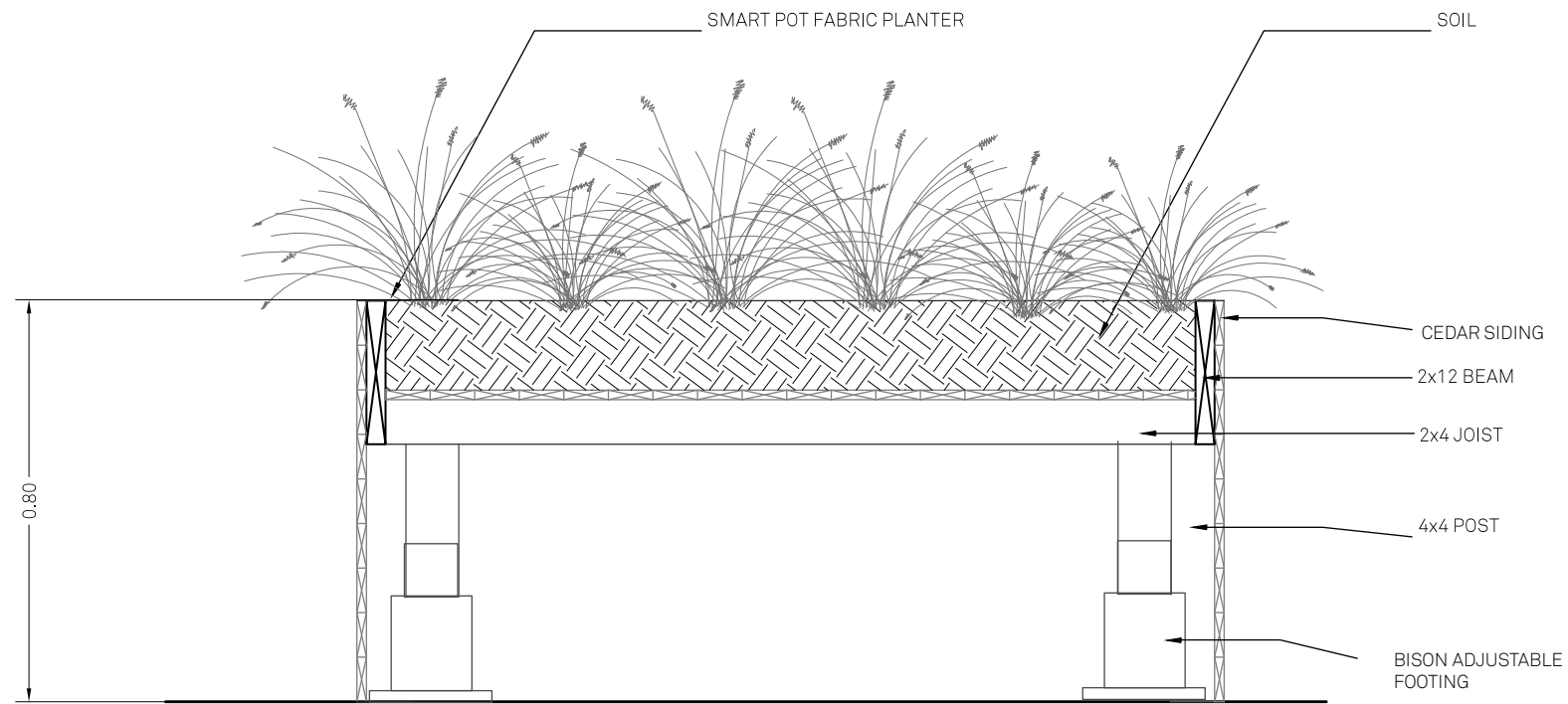
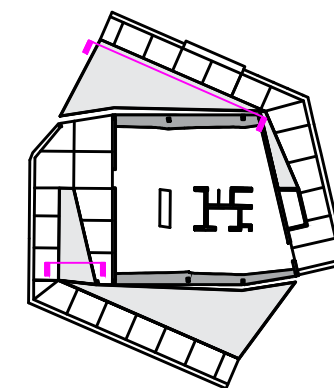
**TECHSTYLE
HAUS.**

INSIDE OUT

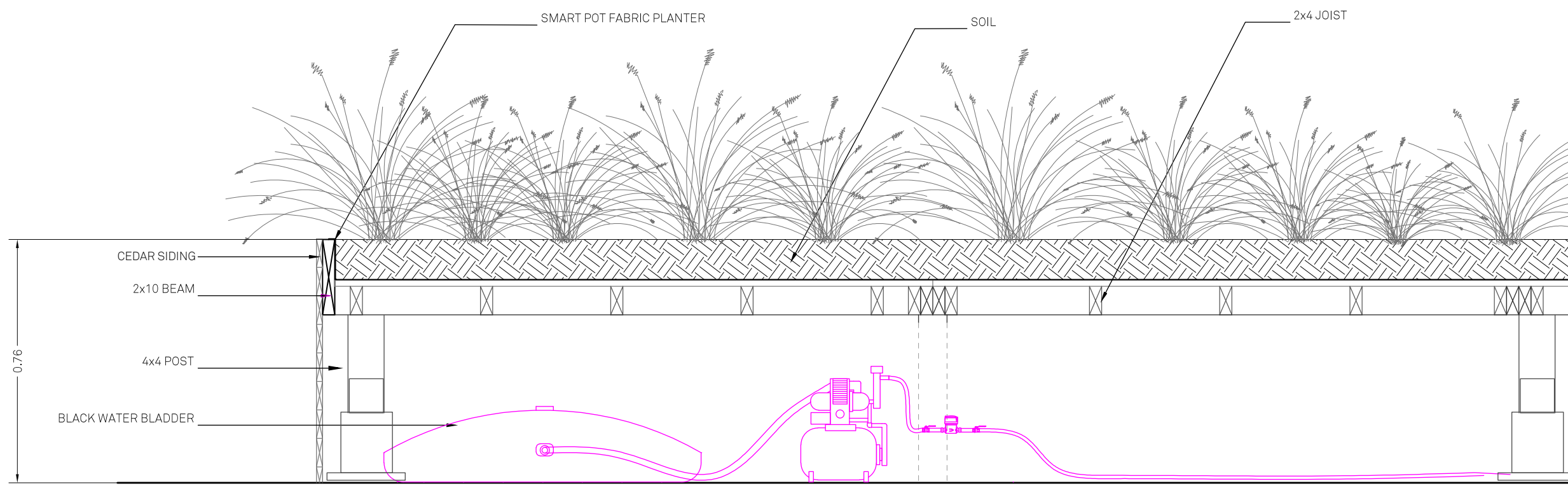
BROWN UNIVERSITY
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2 SOUTHERN EDIBLE GARDEN SECTION



1 GREYWATER GARDEN SECTION

STAMP

DRAWN BY: Jamie Graham

CHECKED BY: Jonathan Knowles

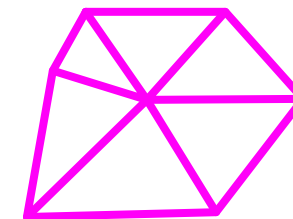
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DATE: 3 November, 2014

SCALE: 1:15



AR-383



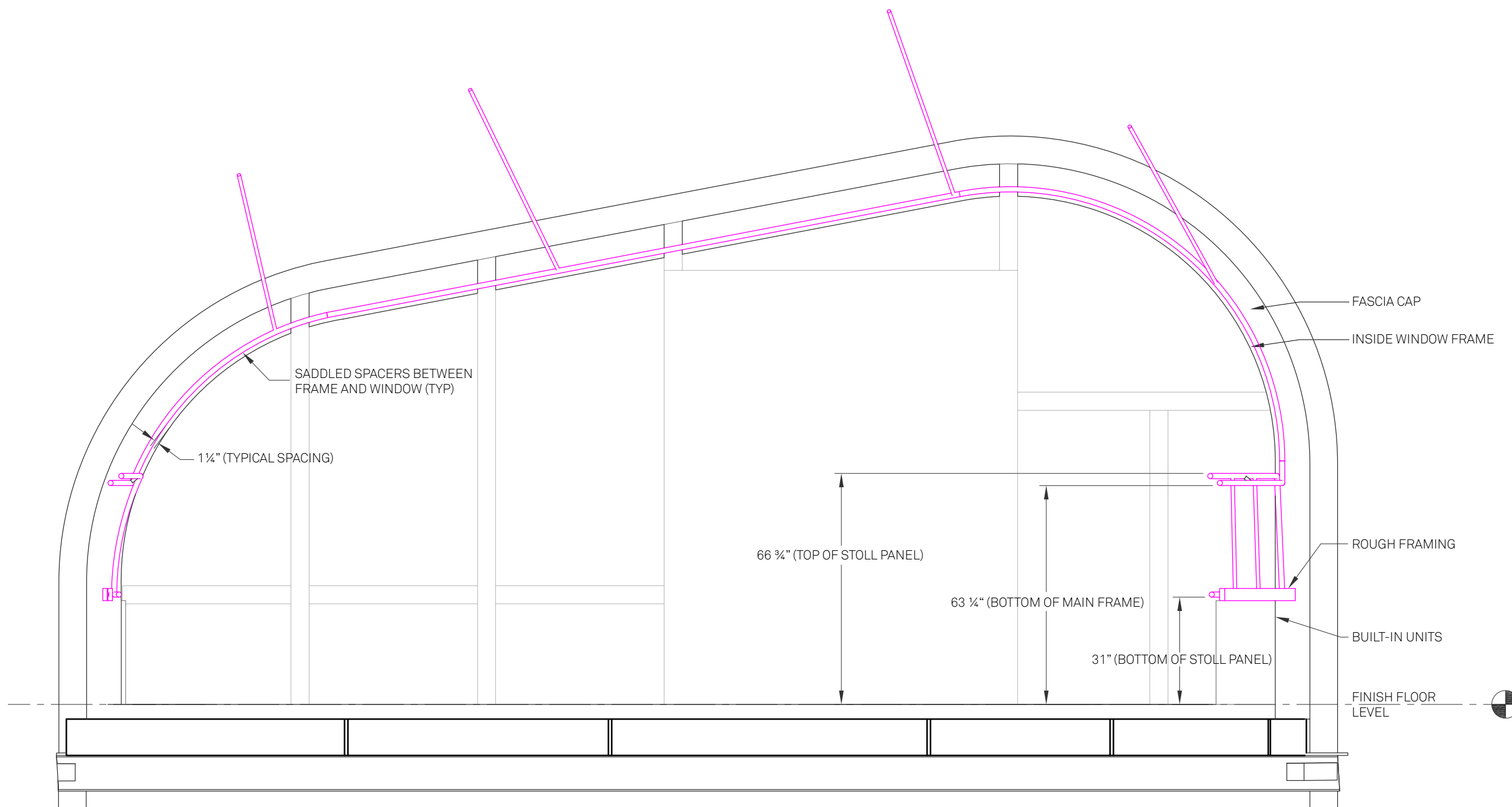
**TECHSTYLE
HAUS.**

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1 RIB 1 TRANSFORMIT ALUMINUM TUBING CONNECTION

STAMP

DRAWN BY: Rory Stevens

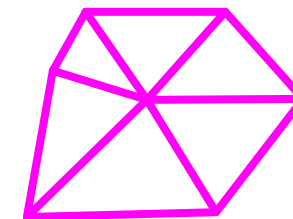
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STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: N/A

AR-401



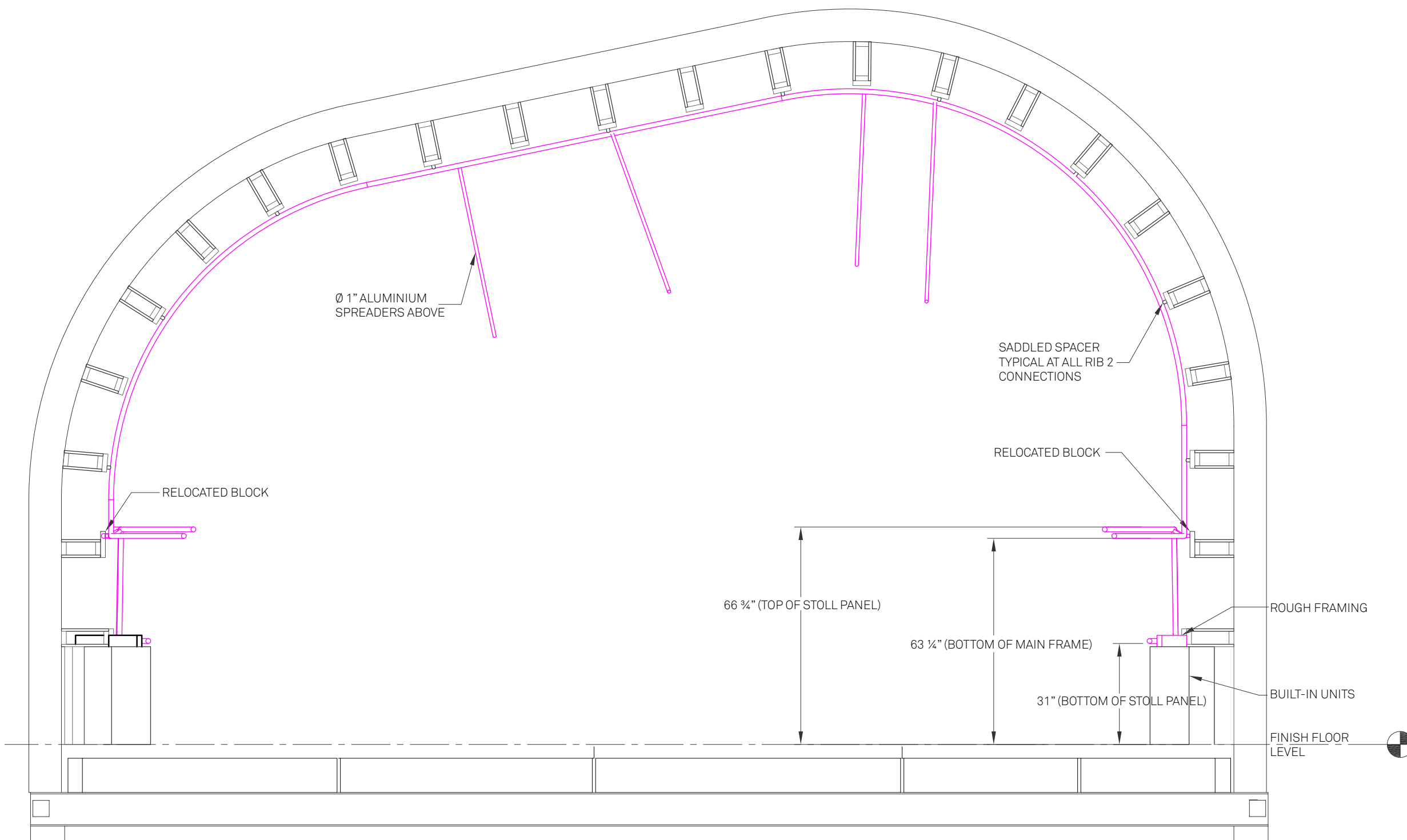
**TECHSTYLE
HAUS.**

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1 RIB 2 TRANSFORMIT ALUMINIUM TUBING CONNECTION

STAMP

DRAWN BY: Rory Stevens

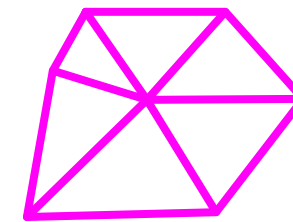
CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: N/A

AR-402



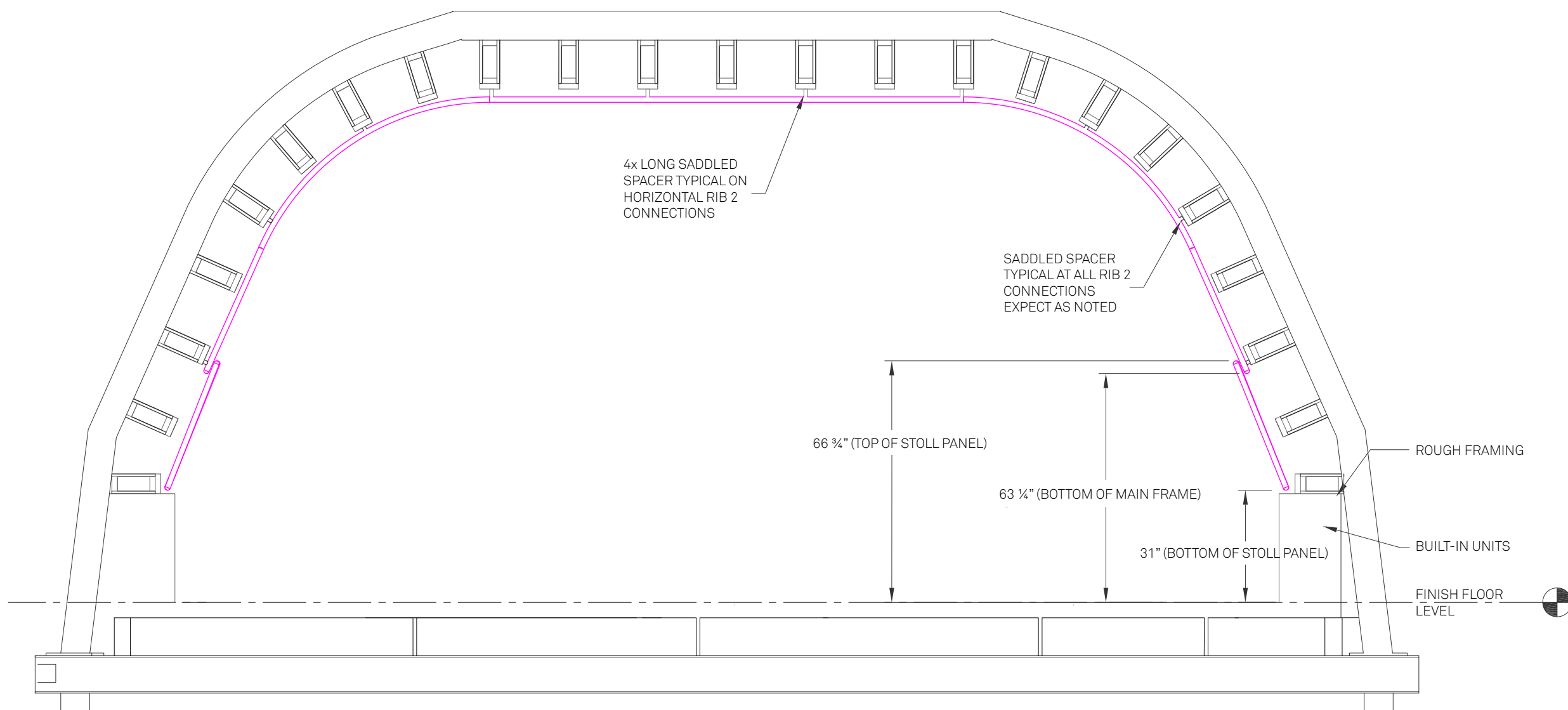
**TECHSTYLE
HAUS.**

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1

RIB 3 TRANSFORMIT ALUMINUM TUBING CONNECTION

STAMP

DRAWN BY: Rory Stevens

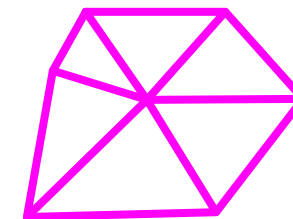
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STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: N/A

AR-403



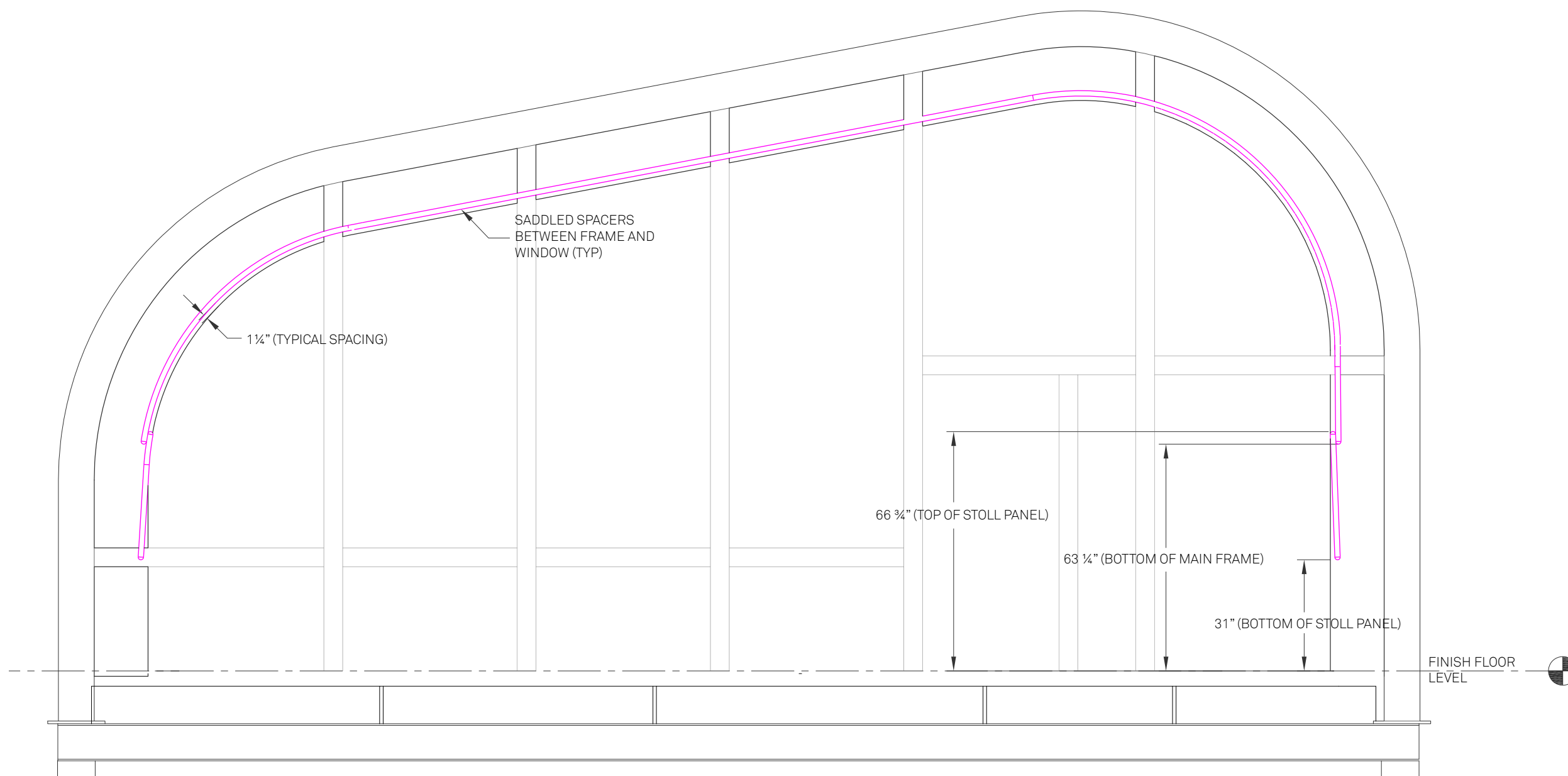
**TECHSTYLE
HAUS.**

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1 RIB 4 TRANSFORMIT ALUMINUM TUBING CONNECTION

STAMP

DRAWN BY: Rory Stevens

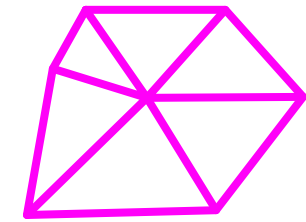
CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: N/A

AR-404



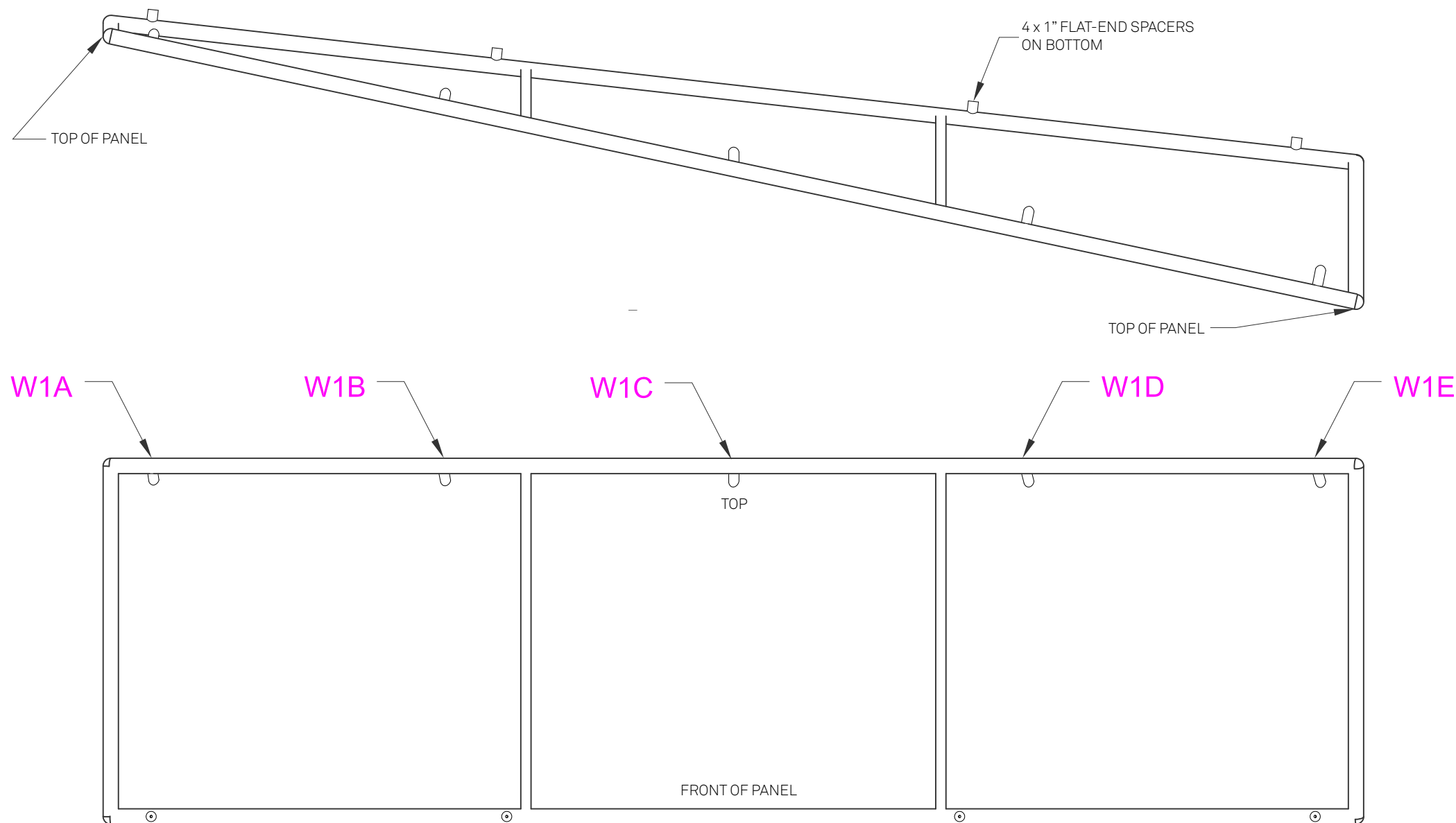
**TECHSTYLE
HAUS.**

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1 TRANSFORMIT ALUMINUM TUBING MODULE SET 1

STAMP

DRAWN BY: Rory Stevens

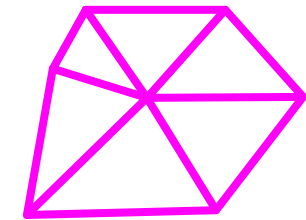
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STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: N/A

AR-405



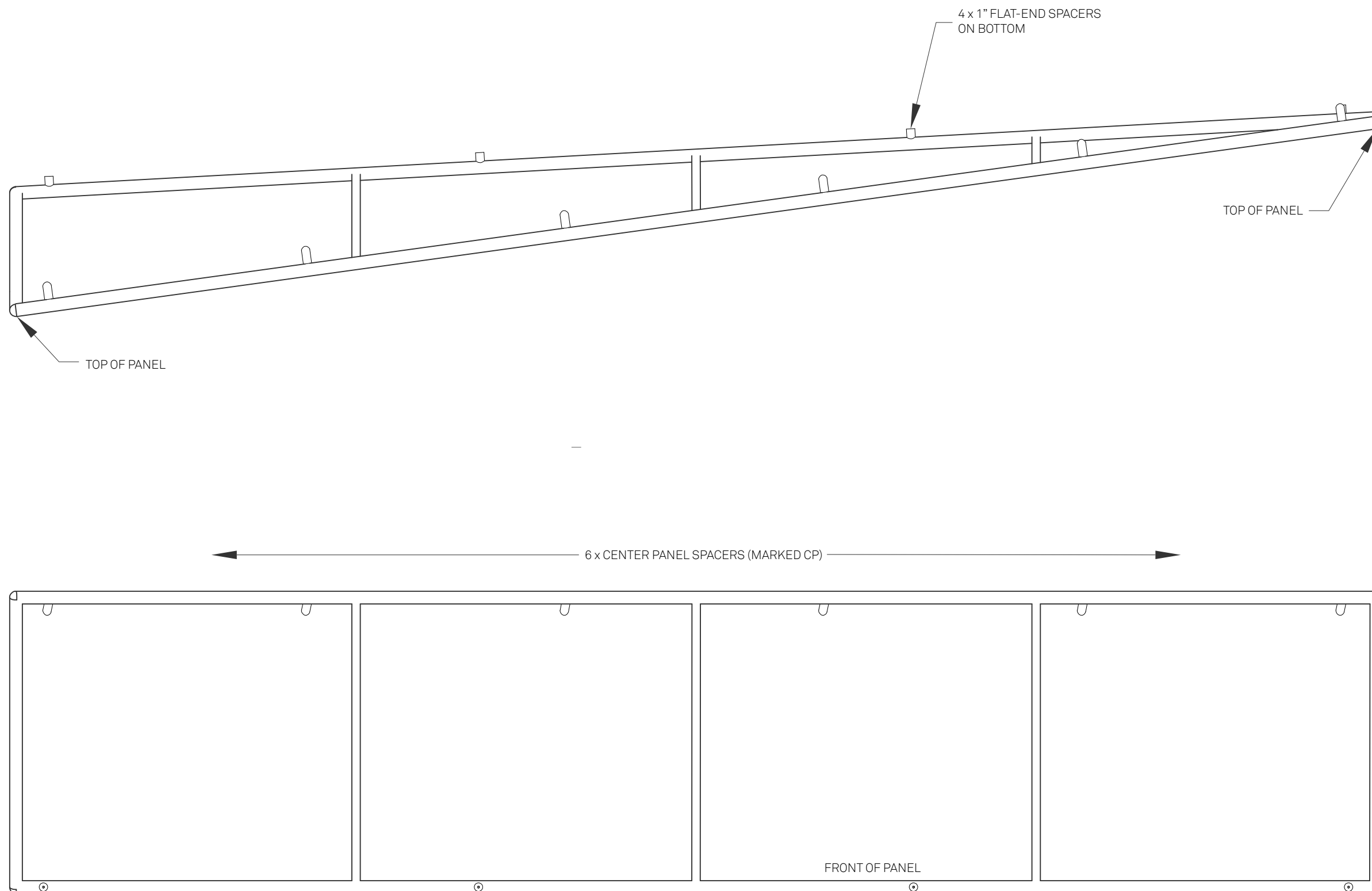
**TECHSTYLE
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1 TRANSFORMIT ALUMINUM TUBING MODULE SET 2

STAMP

DRAWN BY: Rory Stevens

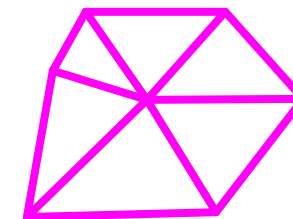
CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: N/A

AR-406



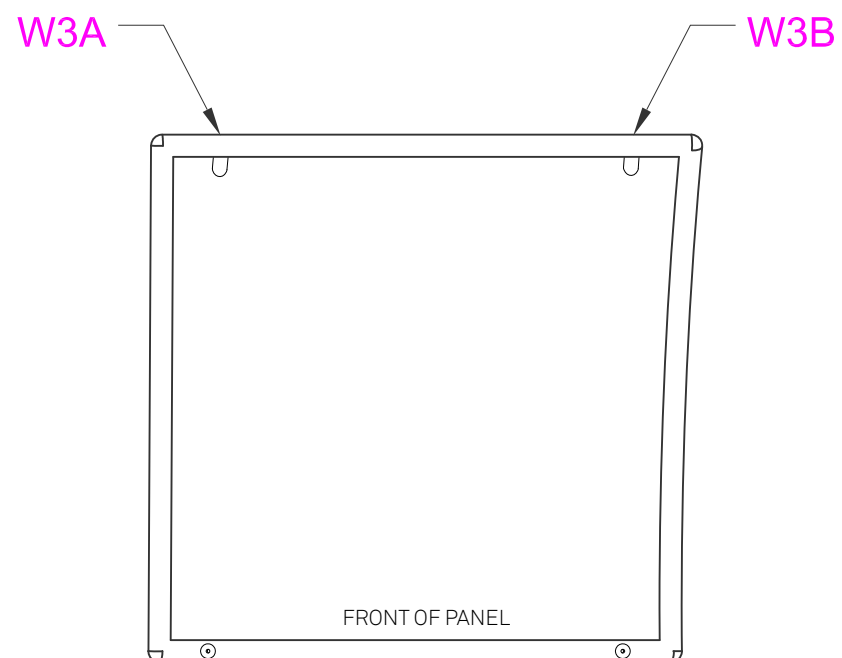
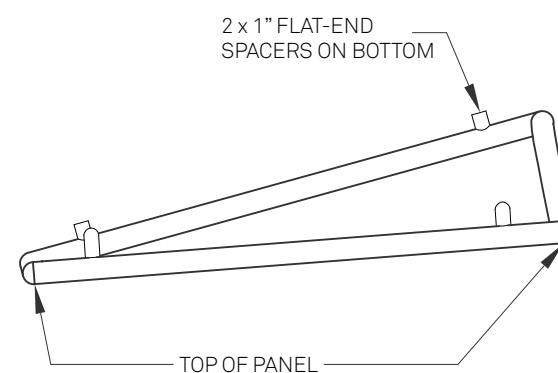
**TECHSTYLE
HAUS.**

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1 TRANSFORMIT ALUMINUM TUBING MODULE SET 3

STAMP

DRAWN BY: Rory Stevens

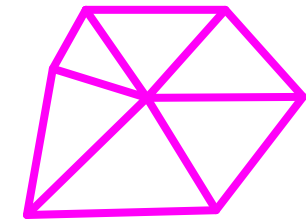
CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: N/A

AR-407



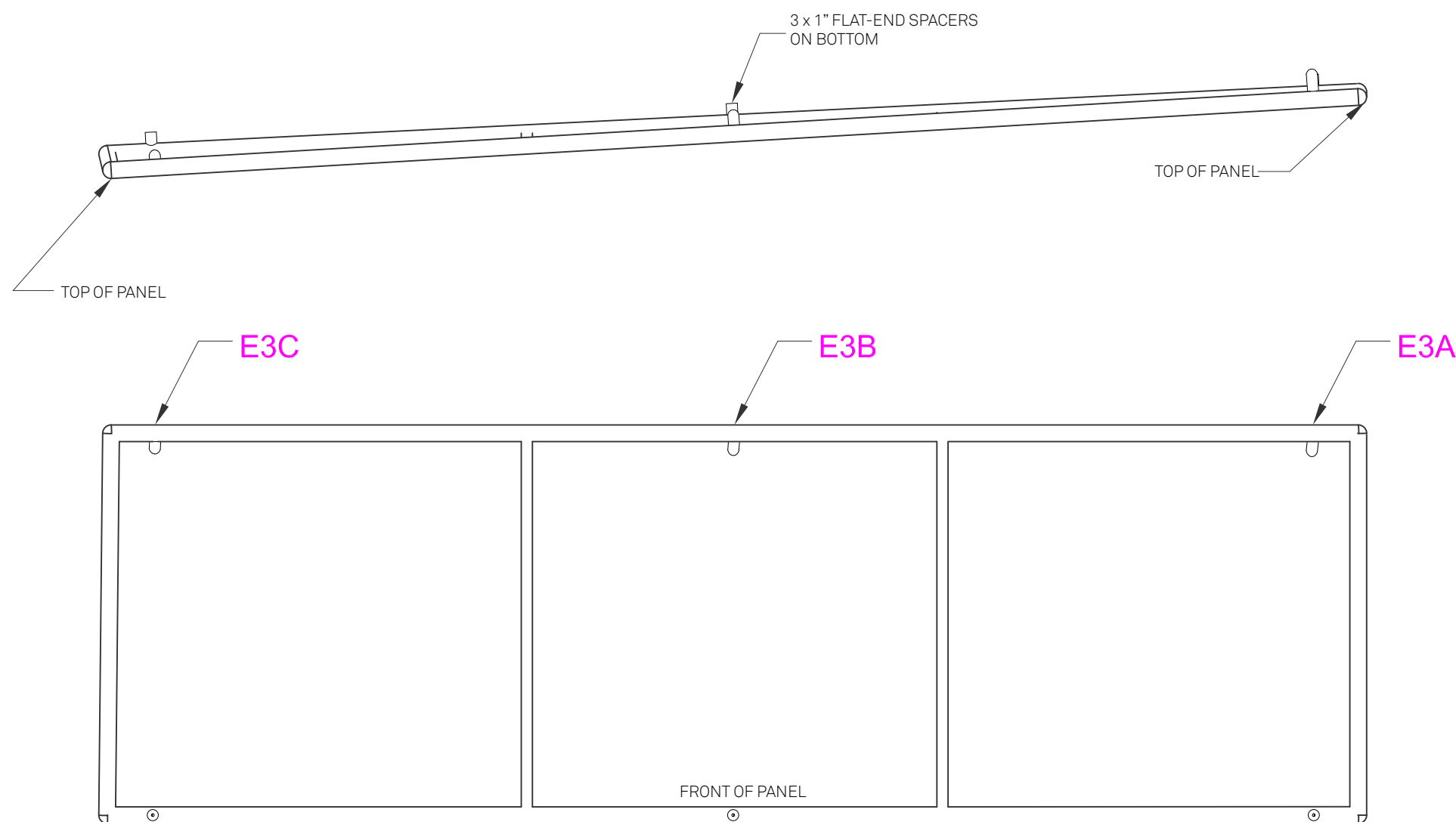
**TECHSTYLE
HAUS.**

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1 TRANSFORMIT ALUMINUM TUBING MODULE SET 4

STAMP

DRAWN BY: Rory Stevens

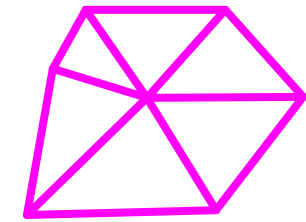
CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: N/A

AR-408



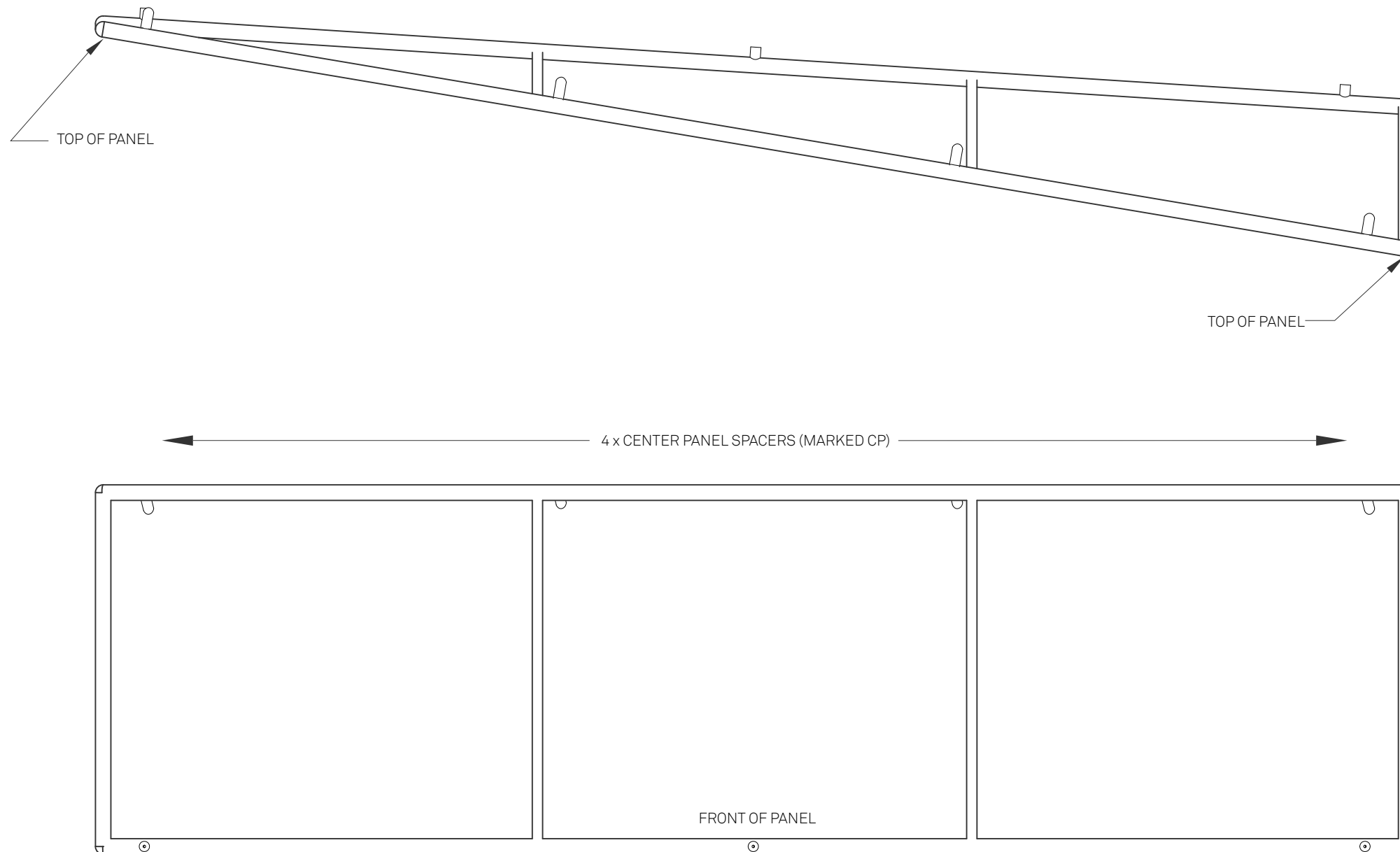
**TECHSTYLE
HAUS.**

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1 TRANSFORMIT ALUMINUM TUBING MODULE SET 5

STAMP

DRAWN BY: Rory Stevens

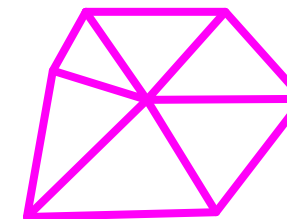
CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: N/A

AR-409



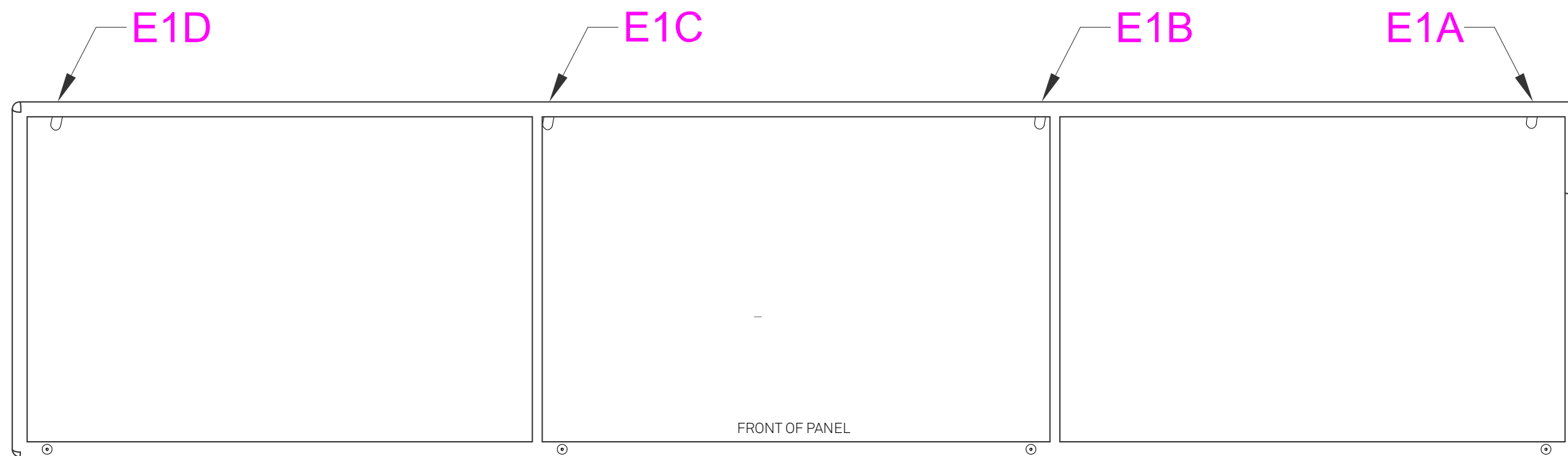
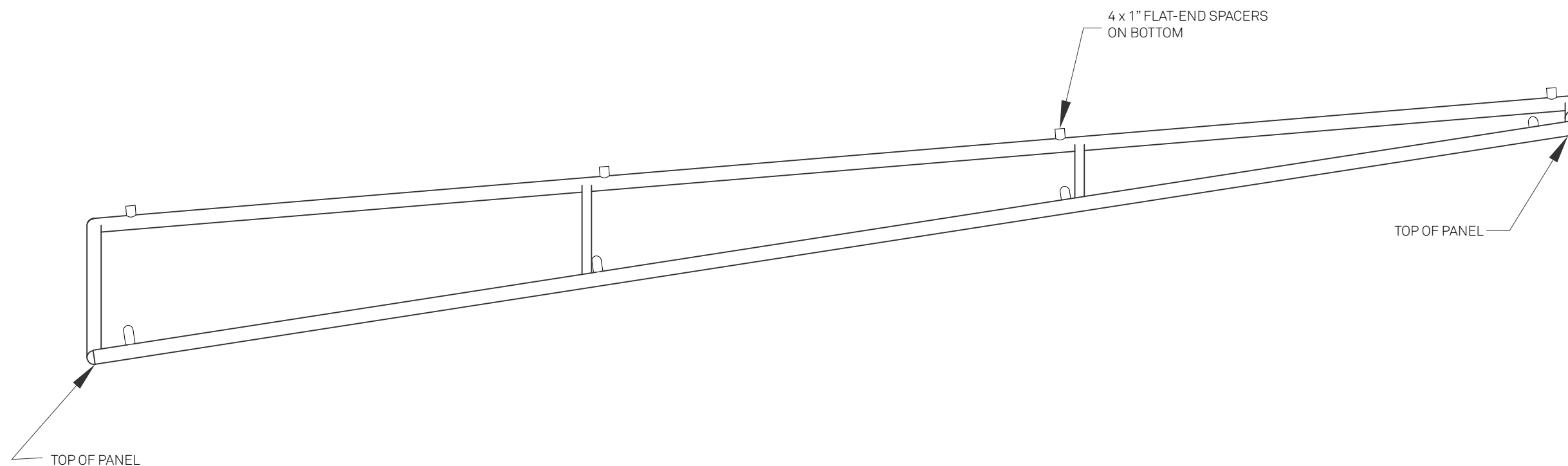
**TECHSTYLE
HAUS.**

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1 TRANSFORMIT ALUMINUM TUBING MODULE SET 6

STAMP

DRAWN BY: Rory Stevens

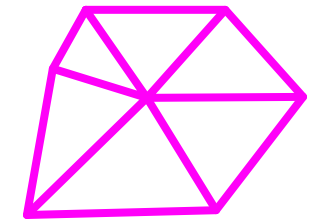
CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: N/A

AR-410



**TECHSTYLE
HAUS.**

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DRAWN BY: Caterina Belardetti

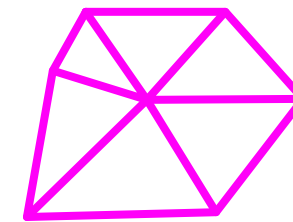
CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

DATE: 3 November, 2014

SCALE: N/A

AR-502



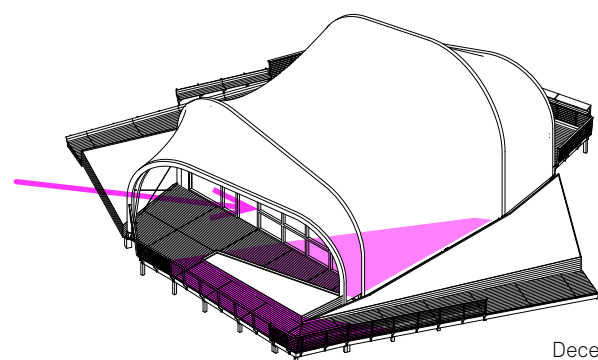
TECHSTYLE HAUS.

INSIDE OUT

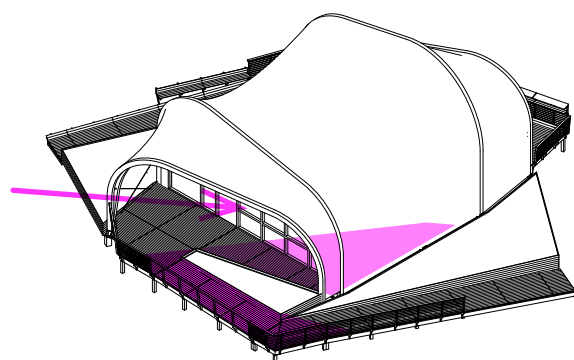
BROWN UNIVERSITY
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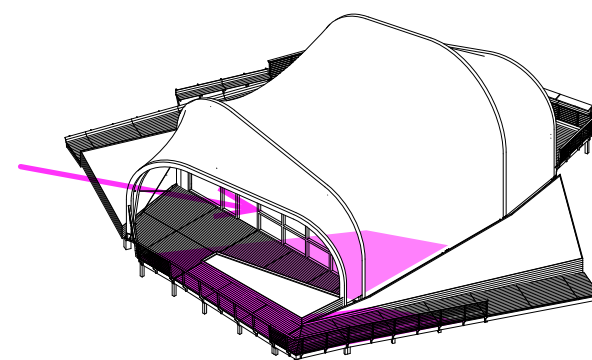
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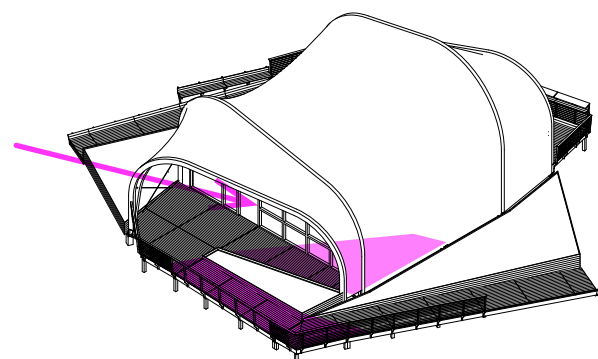
December



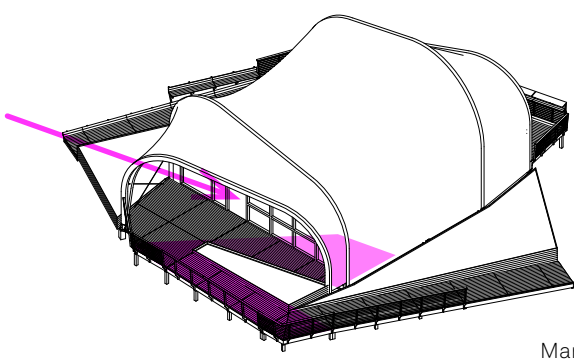
January



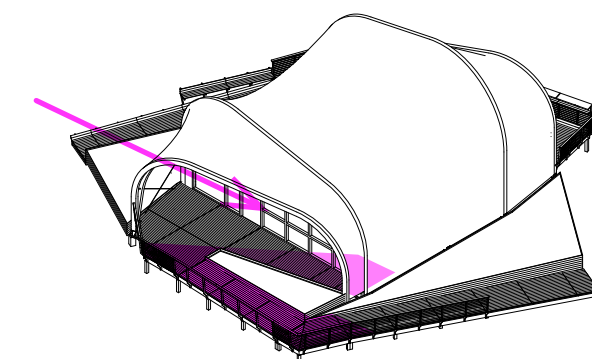
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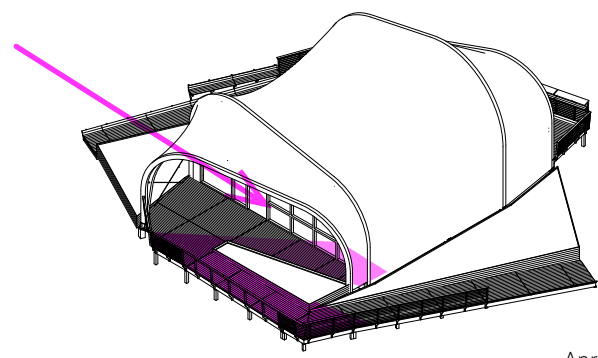
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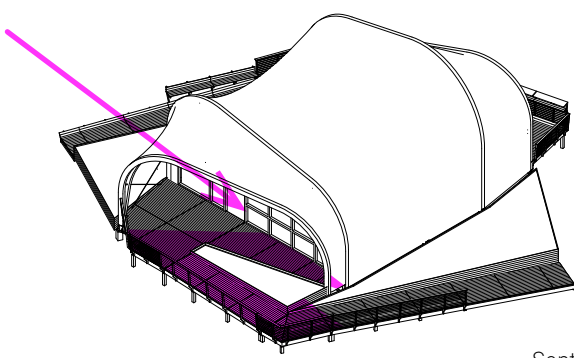
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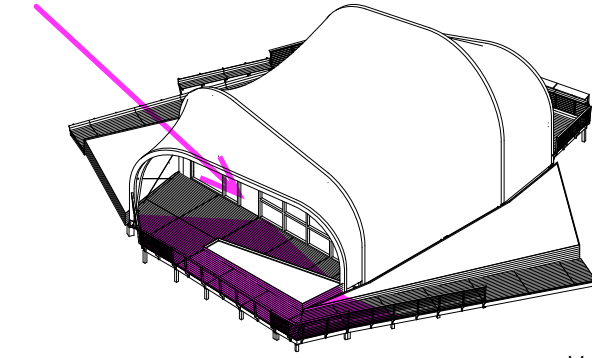
October



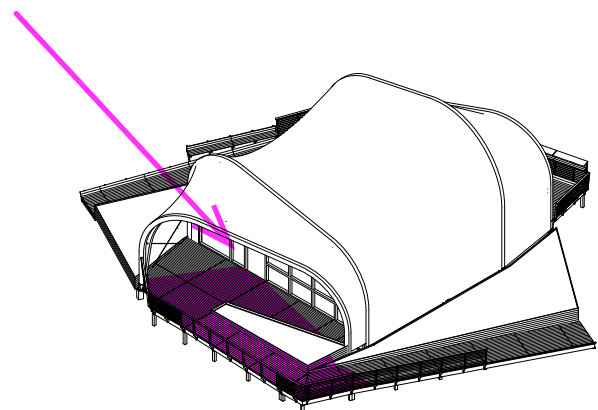
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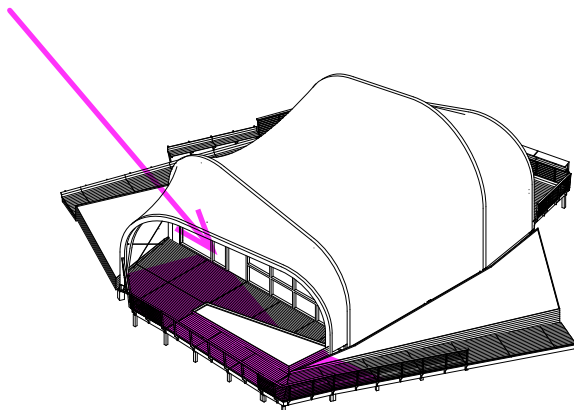
September



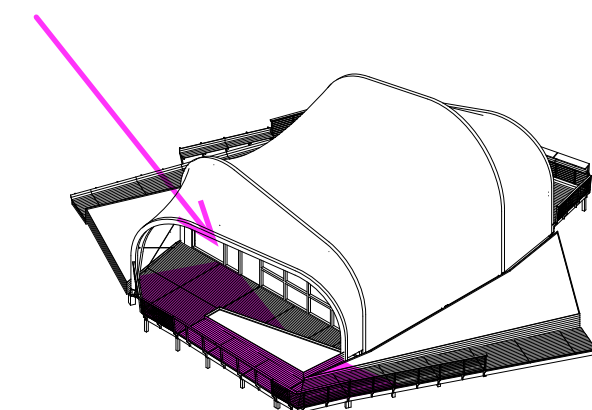
May



August



June



July

1

ANNUAL SOLAR VARIATION

STAMP

DRAWN BY: Andrea Barcia

CHECKED BY: Jonathan Knowles

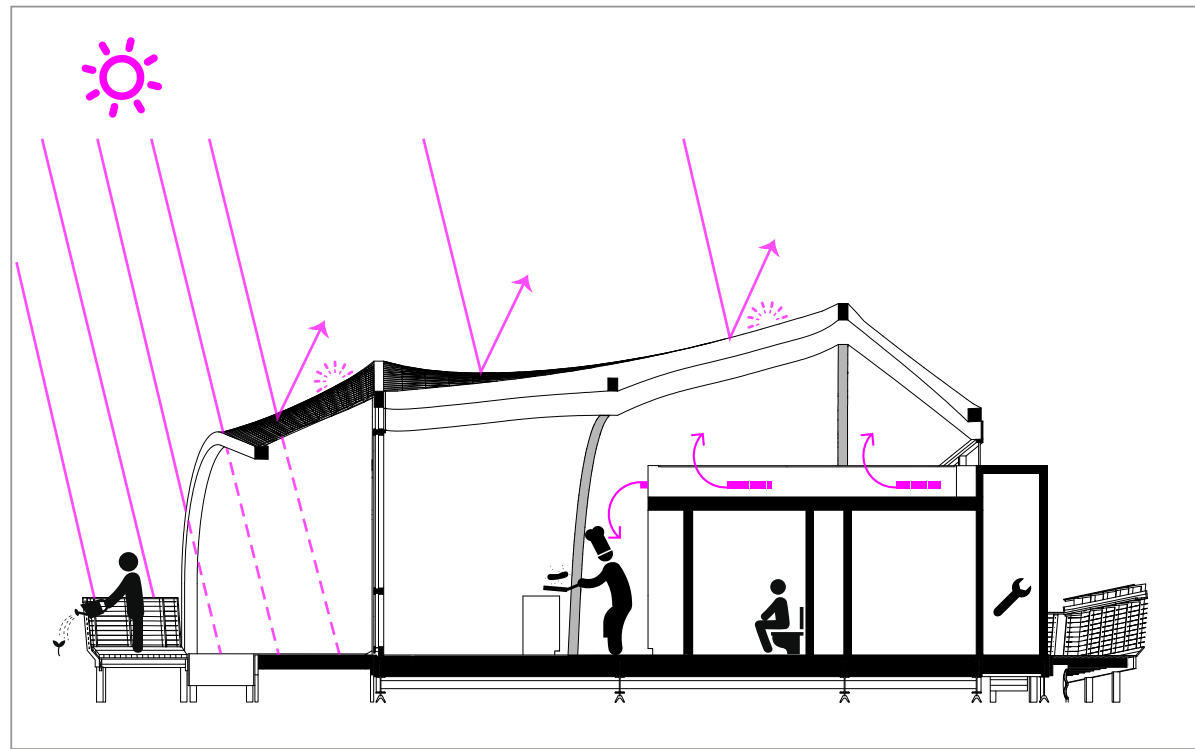
STATUS: Deliverable #7


DATE: 03 November, 2014

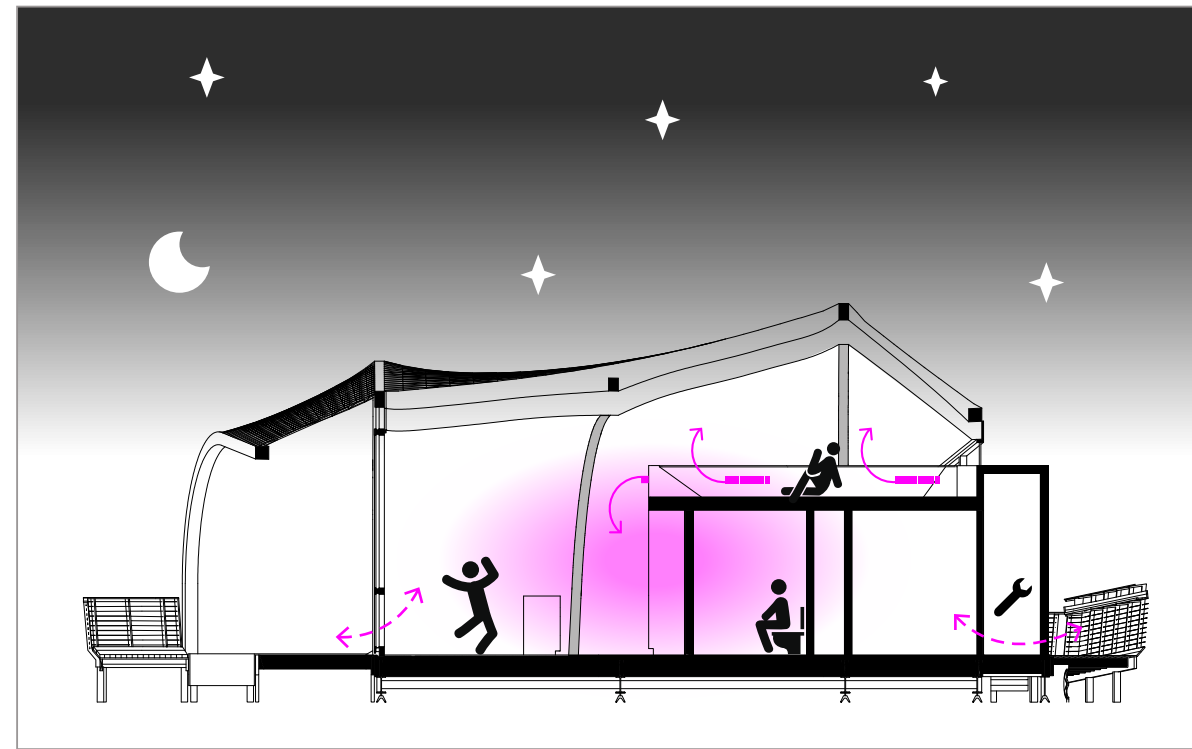
SCALE: N/A


BA-001

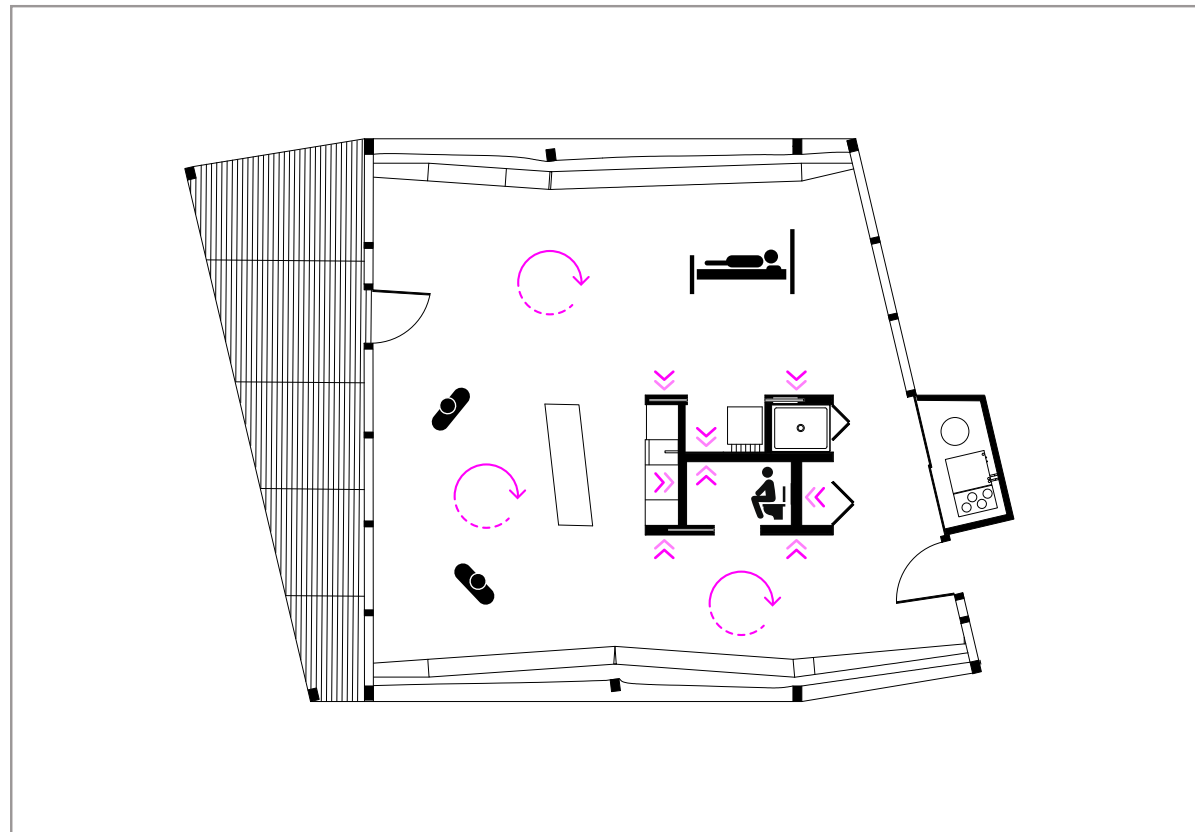
THERMAL AND LIFESTYLE ANALYSIS **WARM DATA**




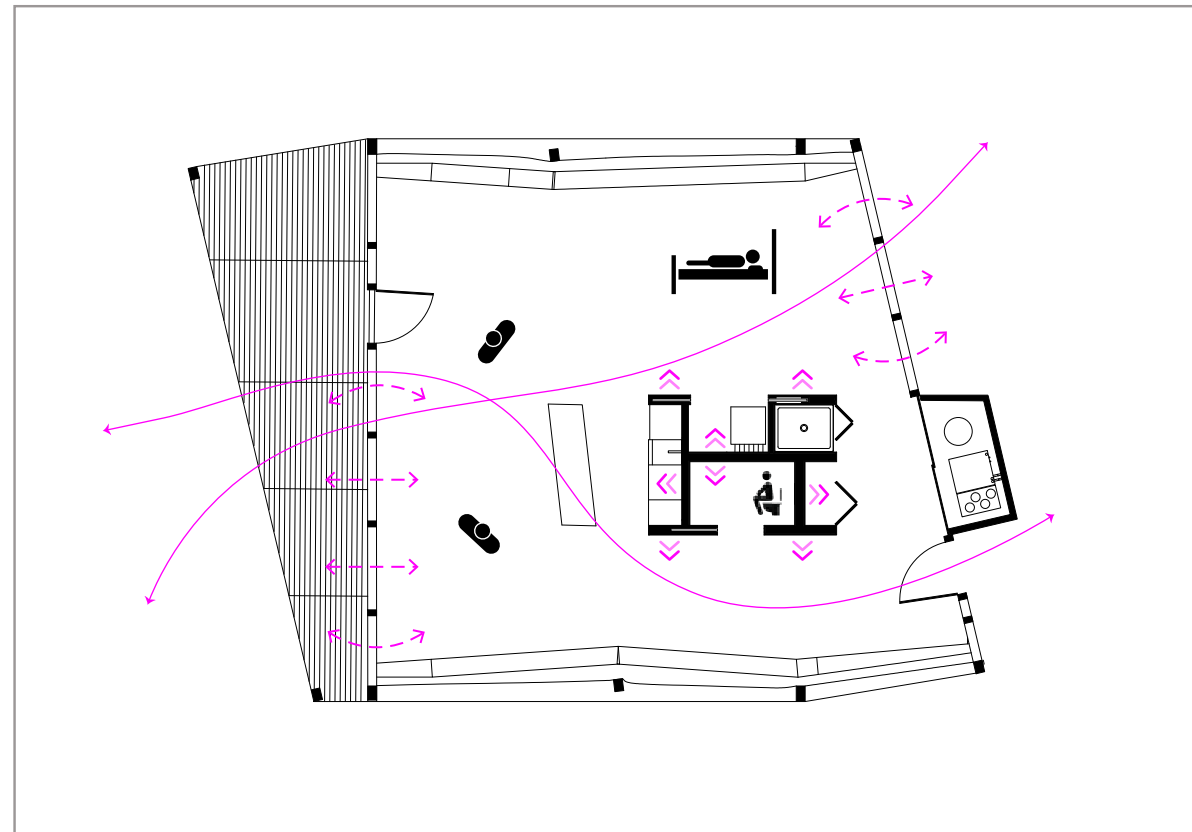
 **WARM WEATHER DAY**






 **WARM WEATHER NIGHT**







 **WARM WEATHER DAY**

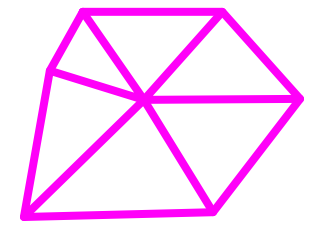


 **WARM WEATHER NIGHT**

 SOLAR RADIATION
 AIR FLOWS

 INTERNAL HEAT GAIN
 PHASE CHANGE MATERIAL

 MECHANICALLY VENTILATED
 SOLAR PANELS



**TECHSTYLE
HAUS.**

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STAMP

DRAWN BY: Anya Sellsted

CHECKED BY: Jonathan Knowles

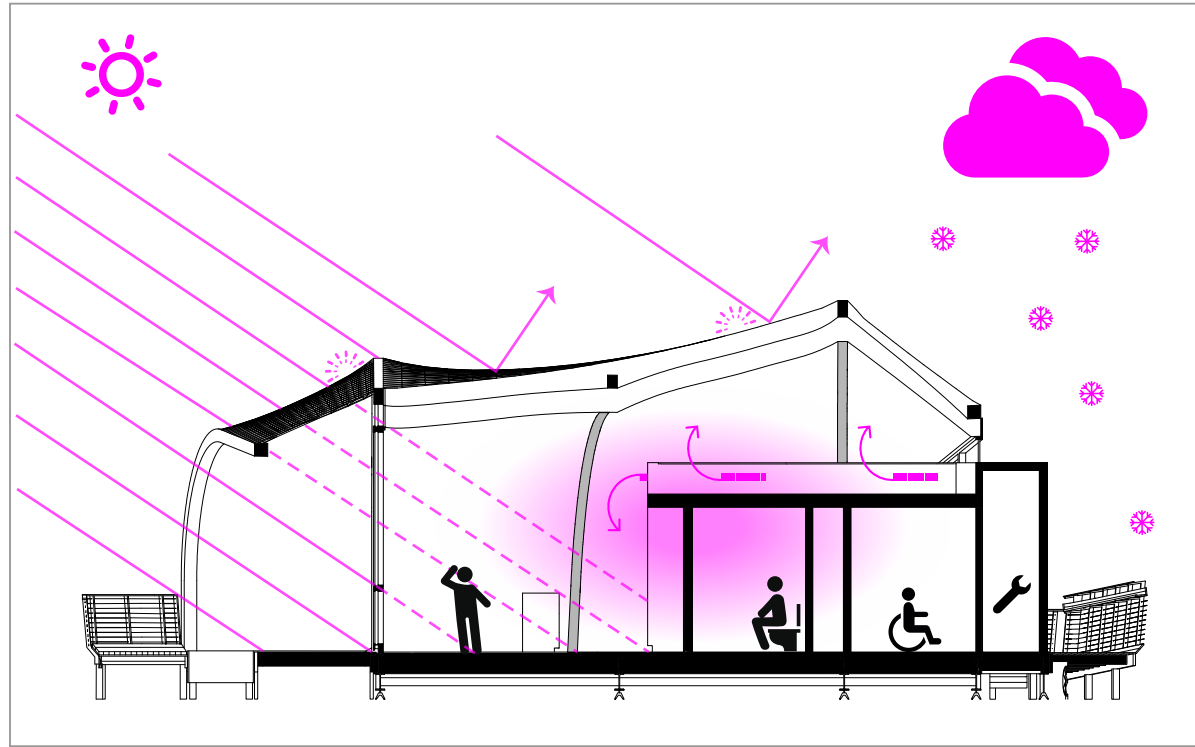
STATUS: Deliverable #7

DATE: 03 November, 2014

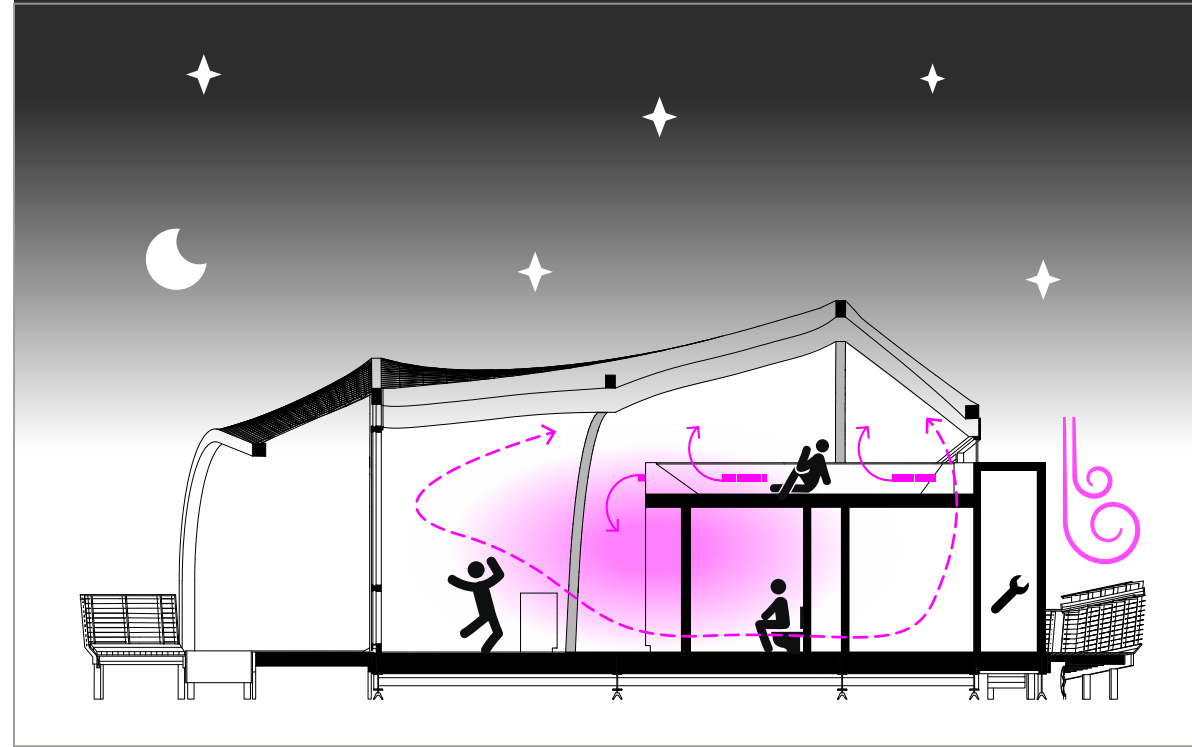
SCALE: N/A

BA-002

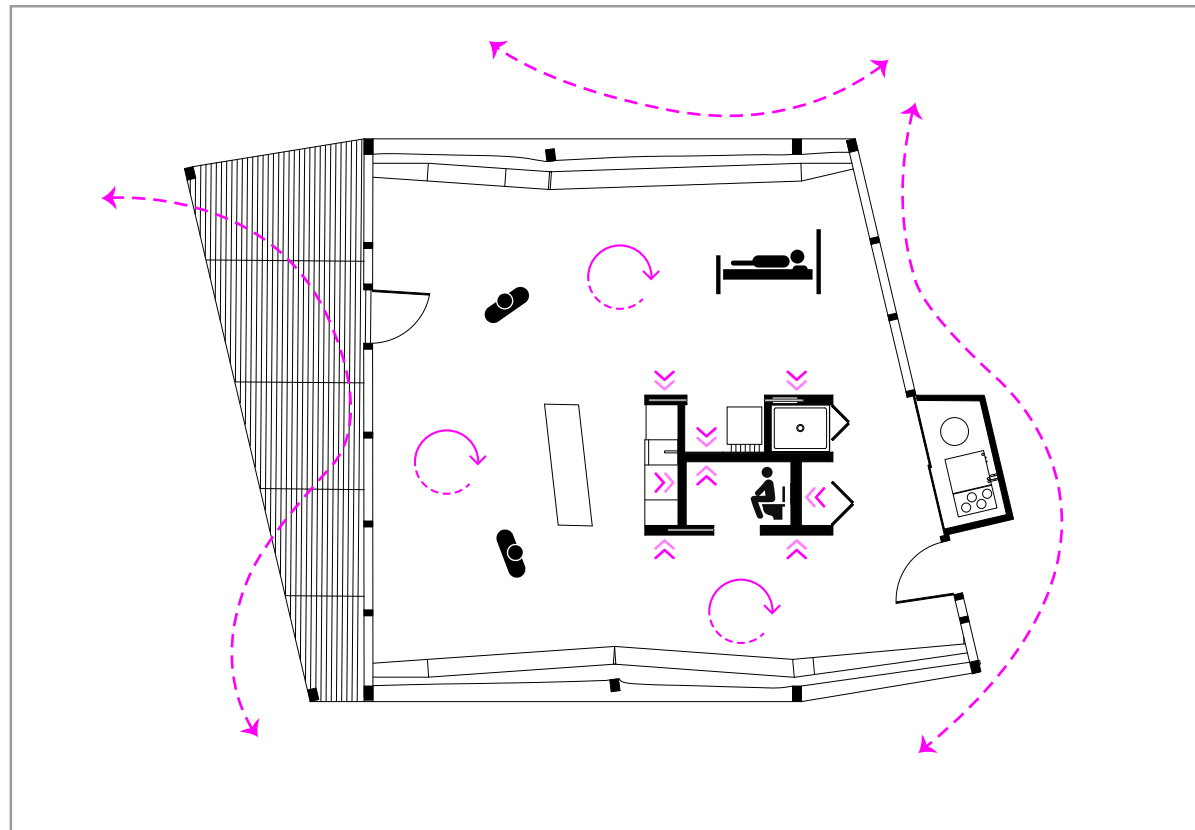
THERMAL AND LIFESTYLE ANALYSIS **COLD DATA**



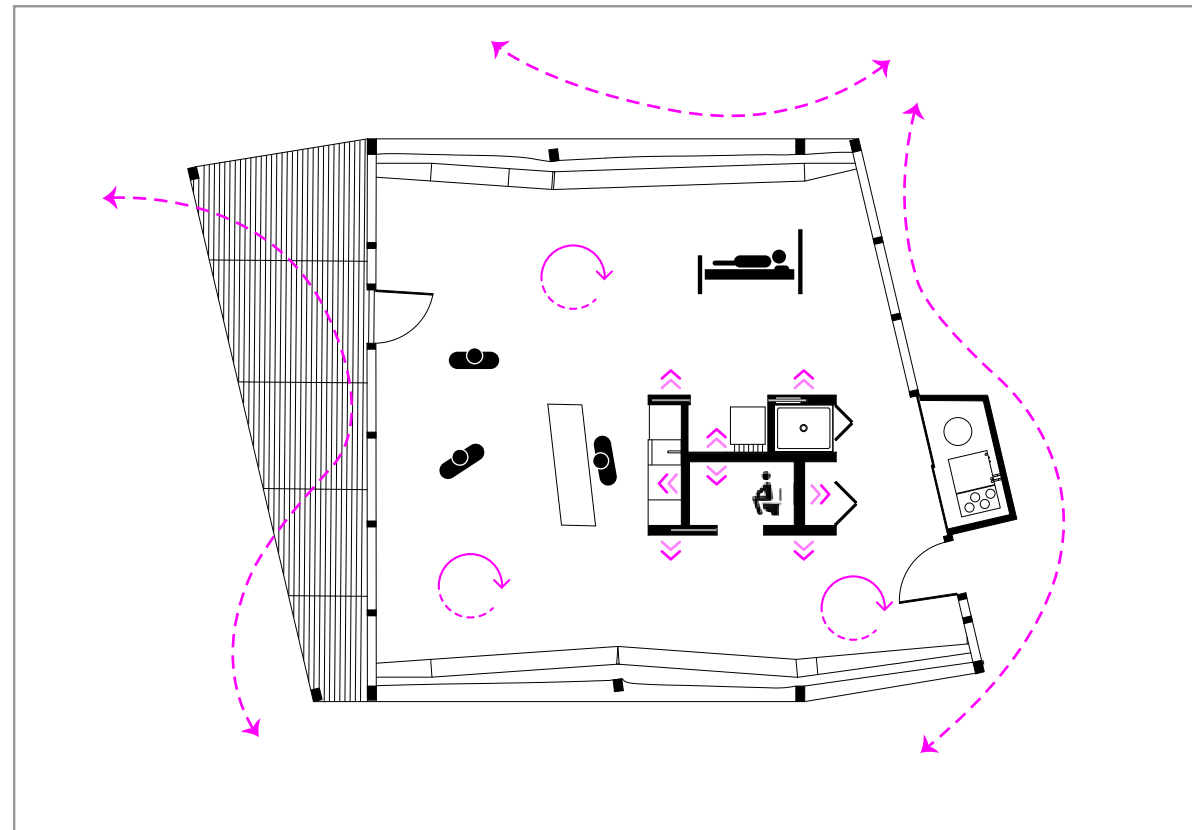
C°
COLD WEATHER **DAY**



C°
COLD WEATHER **NIGHT**



C°
COLD WEATHER **DAY**

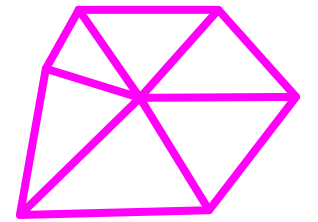


C°
COLD WEATHER **NIGHT**

→ SOLAR RADIATION
- - - AIR FLOWS

● INTERNAL HEAT GAIN
⋈ PHASE CHANGE MATERIAL

↻ MECHANICALLY VENTILATED
☀ SOLAR PANELS



**TECHSTYLE
HAUS.**

INSIDE OUT

BROWN UNIVERSITY
75 Waterman Street
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Germany
+49-361-6700-443

**RHODE ISLAND SCHOOL
OF DESIGN**
2 College Street
Providence, RI 02903
United States
+1-401-454-6100

STAMP

DRAWN BY: Anya Sellsted

CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: N/A

BA-003

- a** Cork Wedge Stool Table
Designed and Built by Anelise Schroeder and Kora Monigle, RISD Furniture Department.
- b** Bent Laminated Bed
Designed and Built by Yunzhu Wang and Maria Bernard and Kevin Saxon, RISD Furniture Department
- c** Criss Cross Dining Table
Designed and Built by Colin Wiencek, RISD Furniture Department.

- 1** Waver Chair
Designed by Konstantin Grcic
Produced by Vitra
- 2** Suita Sofa
Designed by Antonio Citterio
Produced by Vitra
- 3** Monopod Lounge Chair
Designed by Jasper Morrison
Produced by Vitra

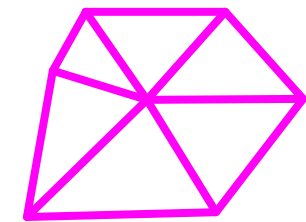
- 4** Workstead Floor Lamp
Produced by Workstead
- 5** Elephant Stool
Designed by Charles and Ray Eames
Produced by Vitra

- 6** Metal Side Table
Designed by Ronan & Erwan Bouroullec
Produced by Vitra
- 7** Tip Ton Chair
Designed by Edward Barber & Jay Osgerby
Produced by Vitra

- A** Tongue and Groove White Oak Flooring
Locally sourced in Rhode Island
- B** Lapeyre Sink
Stainless Steel
- C** Oak Slab Door
Quartersawn white oak
- D** Clothes Washer
Miele WT 2780 S
- E** Kaldewei Conoflat Shower Base
Ceramic shower base
- F** Oak Rain Shield
Solid white oak rain shield
Ships lap connection
- G** Panel Door
Solid White Oak Frame with Frosted Polycarbonate
- H** Kohler Toilet Bowl
Wall hung white ceramic
- I** Kohler Paneramic Sink
White Ceramic Sink
- J** Oak Wall Paneling
Quatersawn white oak wall paneling with Aluminum Eagle Trim
- K** PaperStone Sustainable Solid Surface
PaperStone Pewter Countertop
FSC, Rainforest Alliance, and LEED Certified
- L** Custom Knit Internal Textile
Designed by the RISD Textile Department
Custom knit fire retardant fabric
- M** Built In Cabinetry
White Oak Plywood from Columbia Forest Products
No VOC Purebond Adhesive
- N** White Cedar Decking
Atlantic White Cedar Decking
Local softwood material



1 FURNITURE AND MATERIAL PLAN



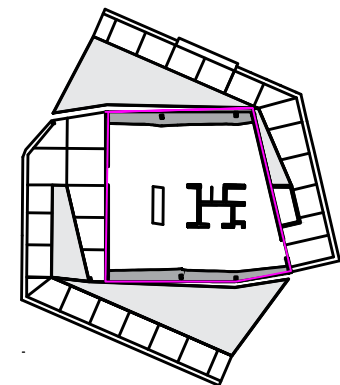
**TECHSTYLE
HAUS.**

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DRAWN BY: Anya Sellsted

CHECKED BY: Jonathan Knowles

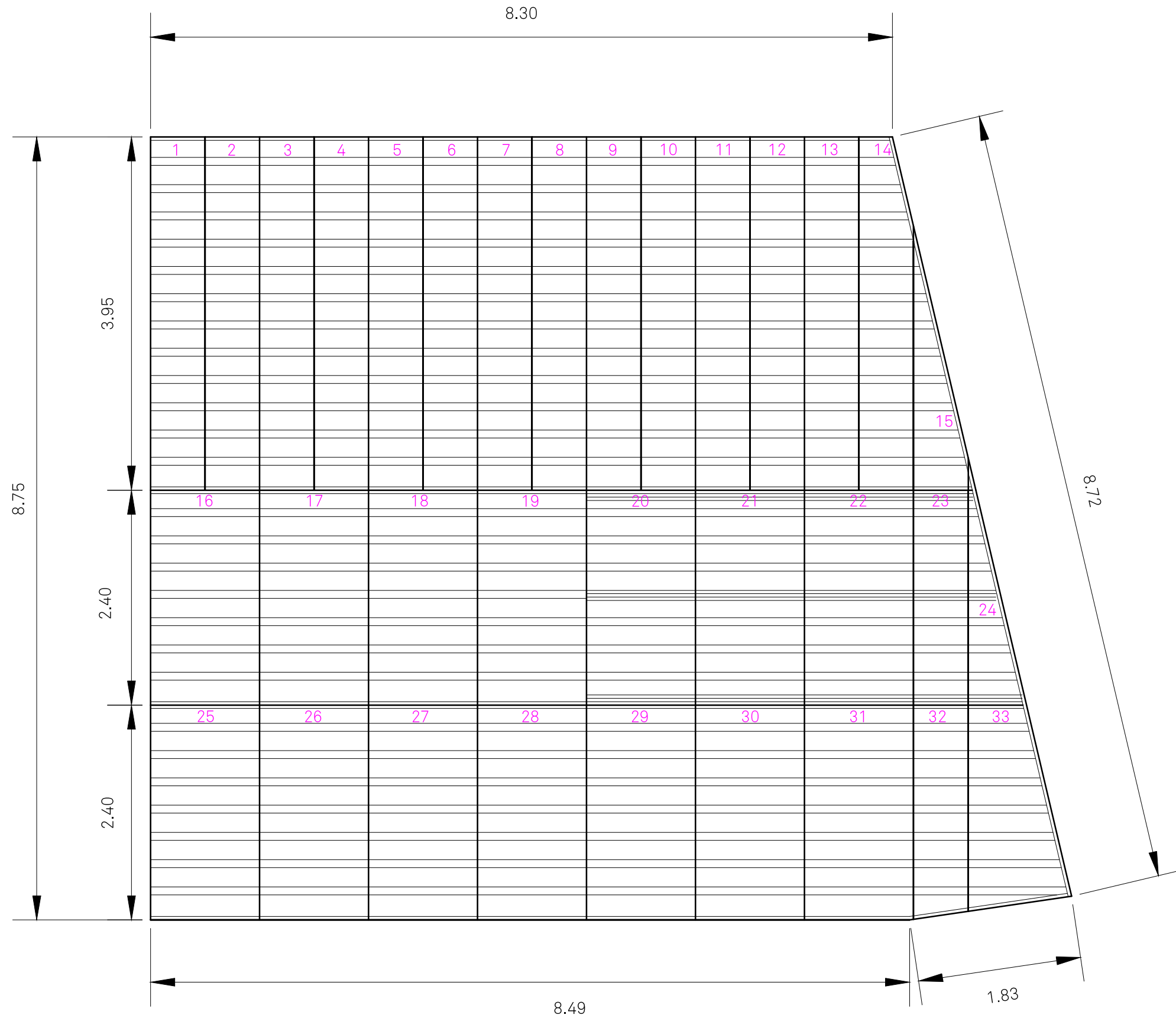
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DATE: 03 November, 2014

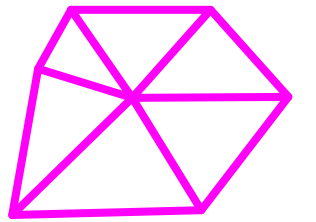
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IN-001



1 FINISHED FLOOR PALLET KEY



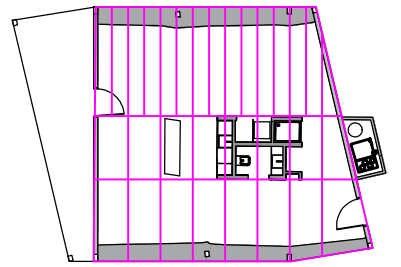
**TECHSTYLE
HAUS.**

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United States
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2 1



STAMP

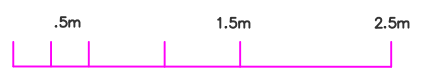
DRAWN BY: Anya Sellsted and Marielle De Pena

CHECKED BY: Jonathan Knowles

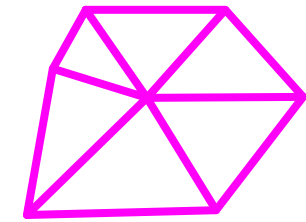
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DATE: 03 November, 2014

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IN-002



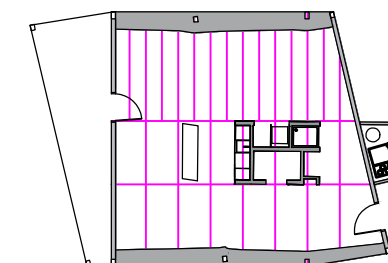
**TECHSTYLE
HAUS.**

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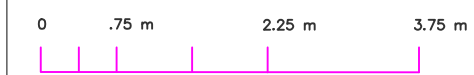
DRAWN BY: Anya Sellsted & Marielle De Peña Mateo

CHECKED BY: Jonathan Knowles

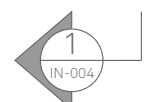
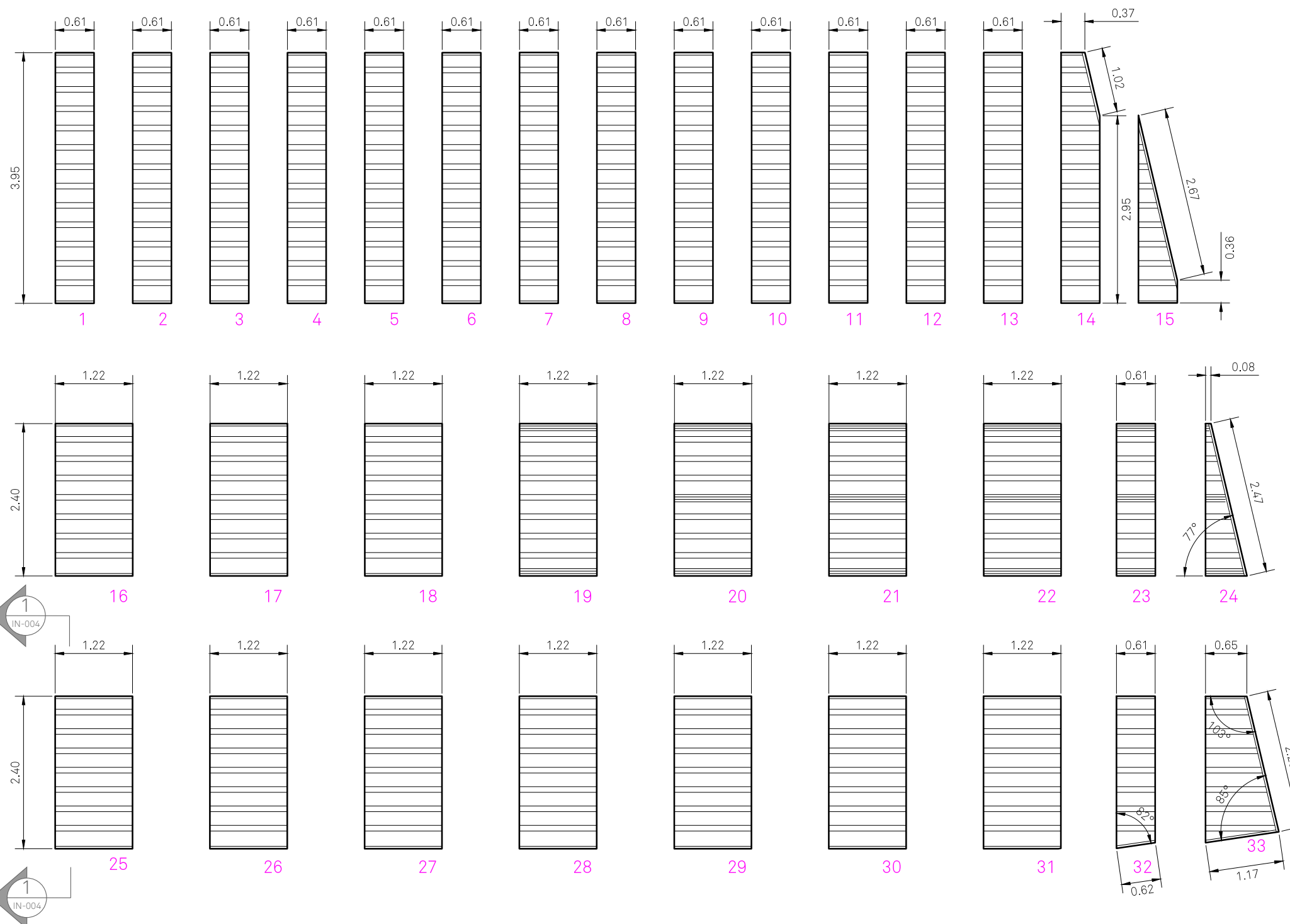
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DATE: 03 November, 2014

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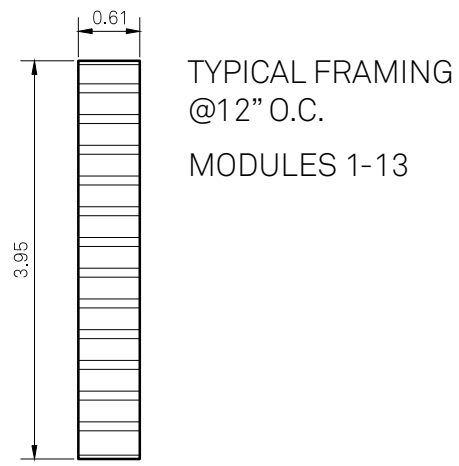


IN-003

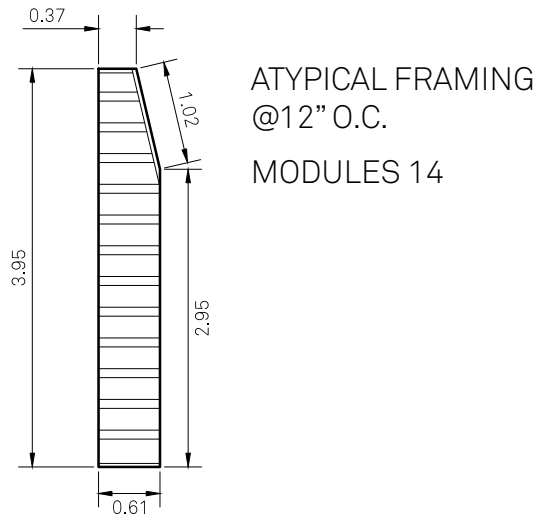


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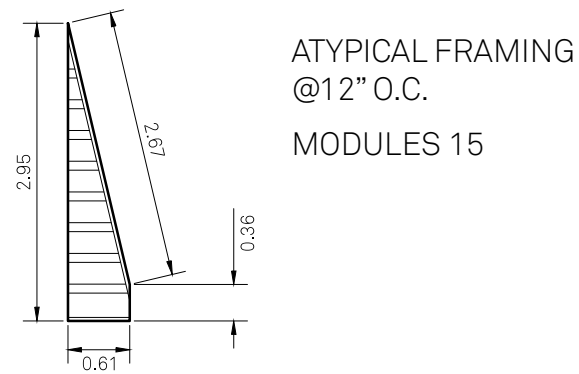
FINISHED FLOOR PALLET MODULES



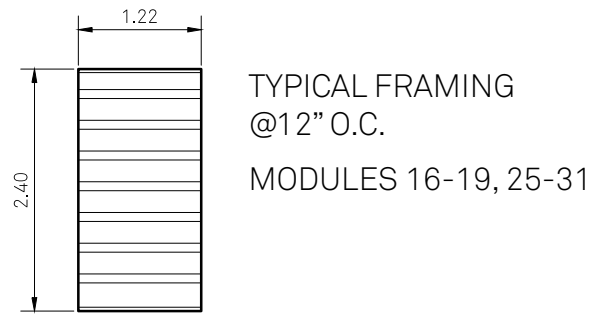
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@12" O.C.
MODULES 1-13



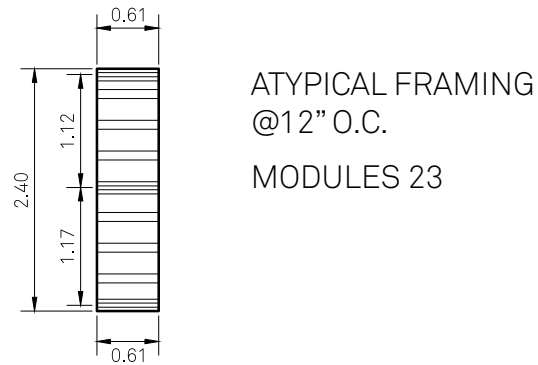
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MODULES 14



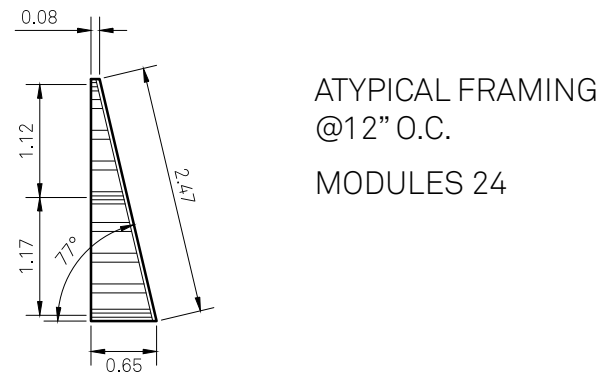
ATYPICAL FRAMING
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MODULES 15



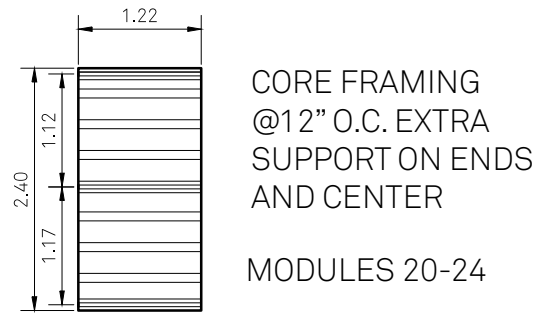
TYPICAL FRAMING
@12" O.C.
MODULES 16-19, 25-31



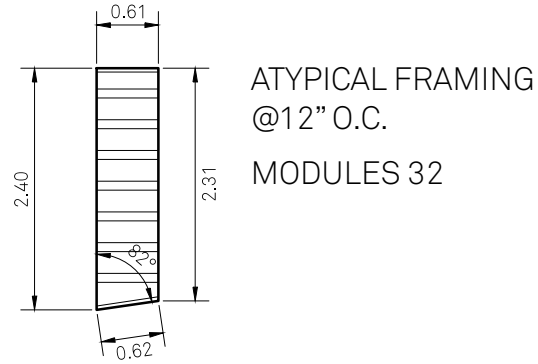
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MODULES 23



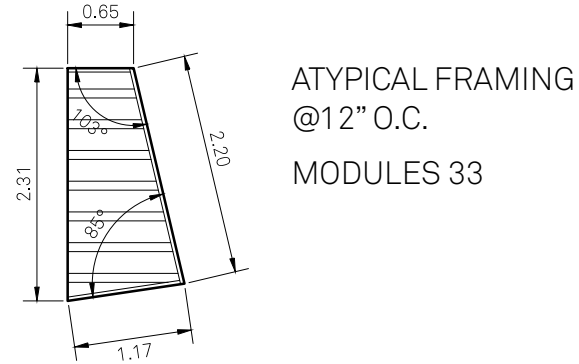
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@12" O.C.
MODULES 24



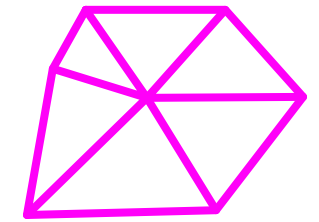
CORE FRAMING
@12" O.C. EXTRA
SUPPORT ON ENDS
AND CENTER
MODULES 20-24



ATYPICAL FRAMING
@12" O.C.
MODULES 32



ATYPICAL FRAMING
@12" O.C.
MODULES 33



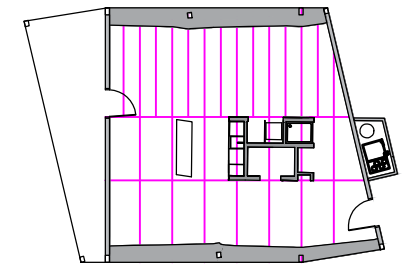
**TECHSTYLE
HAUS.**

INSIDE OUT

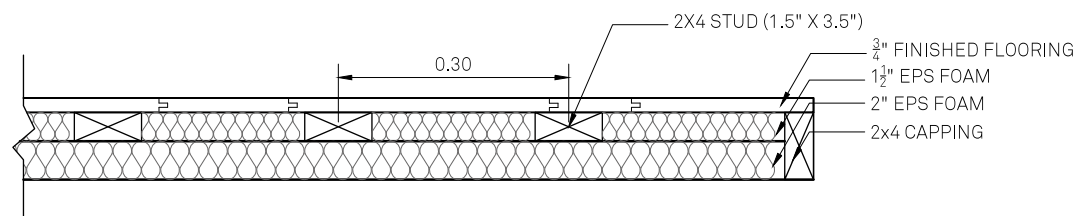
BROWN UNIVERSITY
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2 CONSTRUCTION MODULE LAYOUT AND LEGEND



1 FINISHED FLOOR CONSTRUCTION PALLET SECTION TYP. 2X4 @ .30 O.C.

STAMP

DRAWN BY: Anya Sellsted & Marielle De Peña Mateo

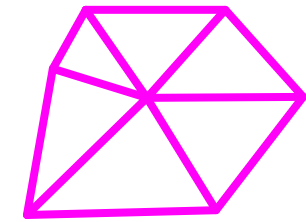
CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: VERIED

IN-004



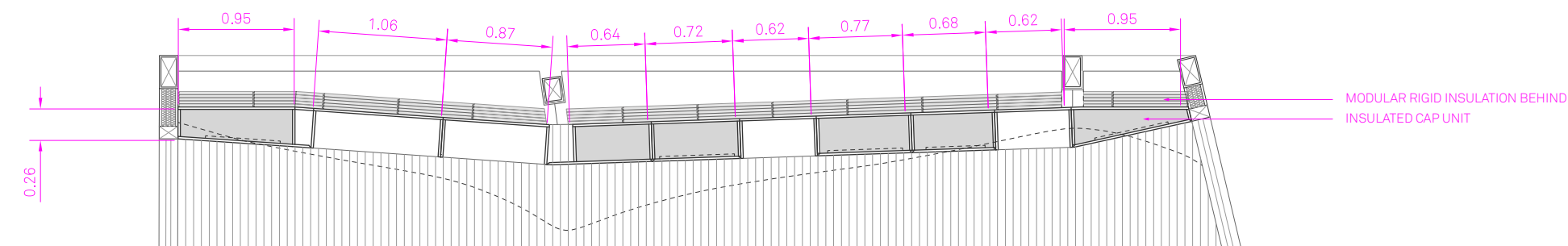
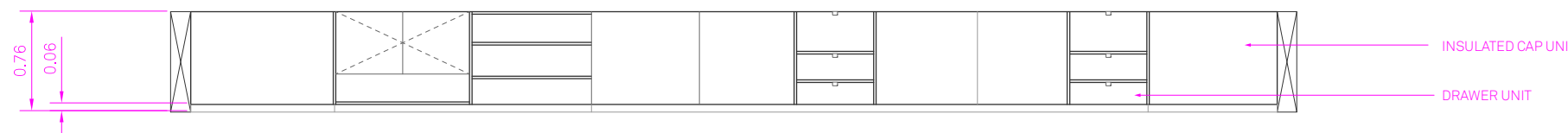
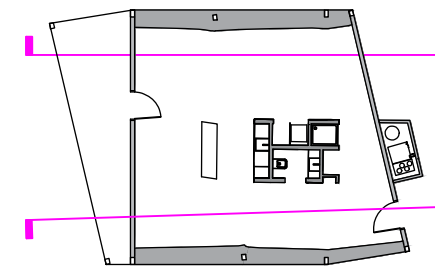
**TECHSTYLE
HAUS.**

INSIDE OUT

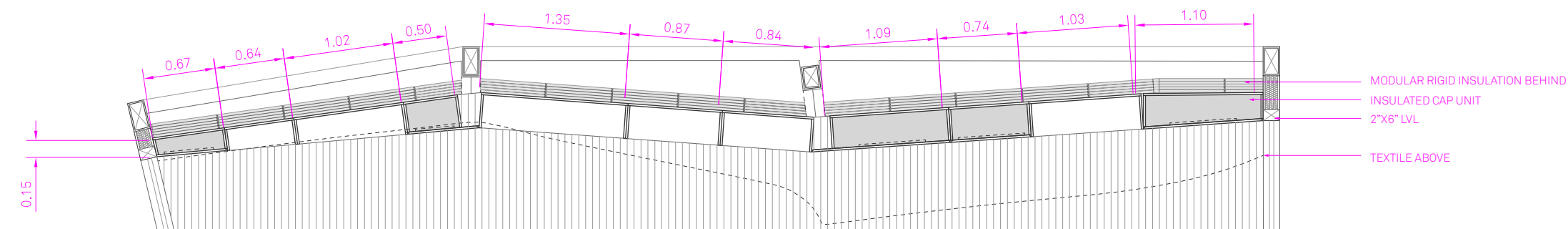
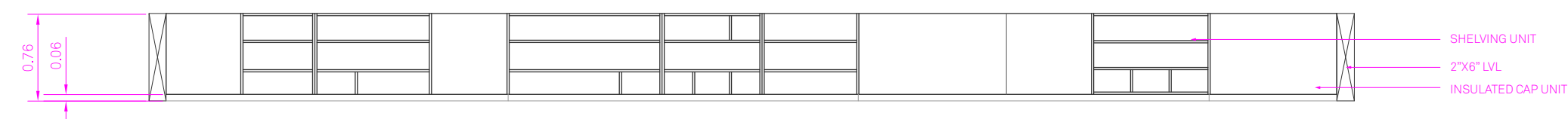
BROWN UNIVERSITY
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99085 Erfurt
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2 EAST BUILT-INS



1 WEST BUILT-INS

STAMP

DRAWN BY: Marielle De Peña Mateo

CHECKED BY: Jonathan Knowles

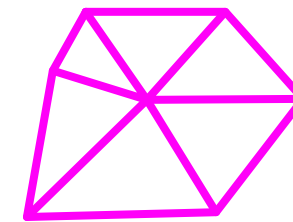
STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: 1:50



IN-005



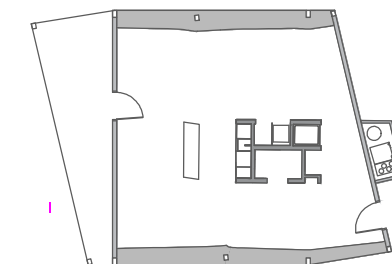
**TECHSTYLE
HAUS.**

INSIDE OUT

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STAMP

DRAWN BY: Jamie Graham

CHECKED BY: Jonathan Knowles

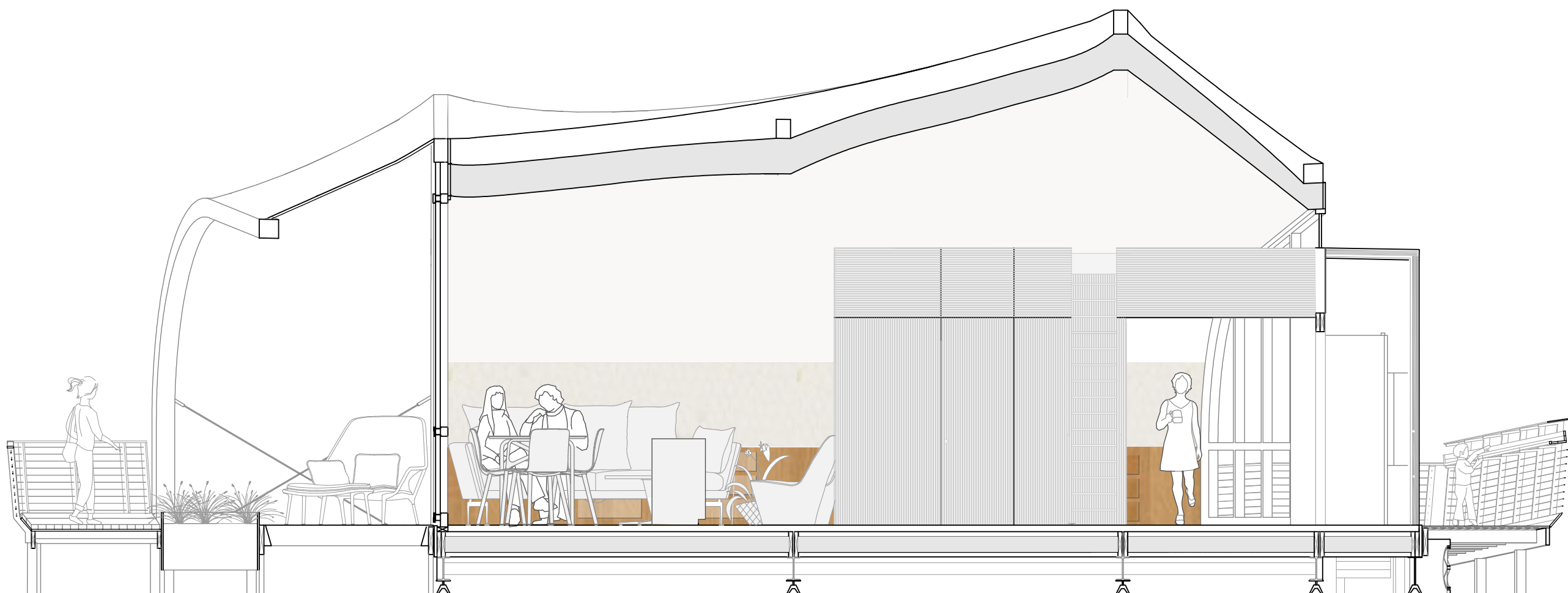
STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: 1:50



IN-201

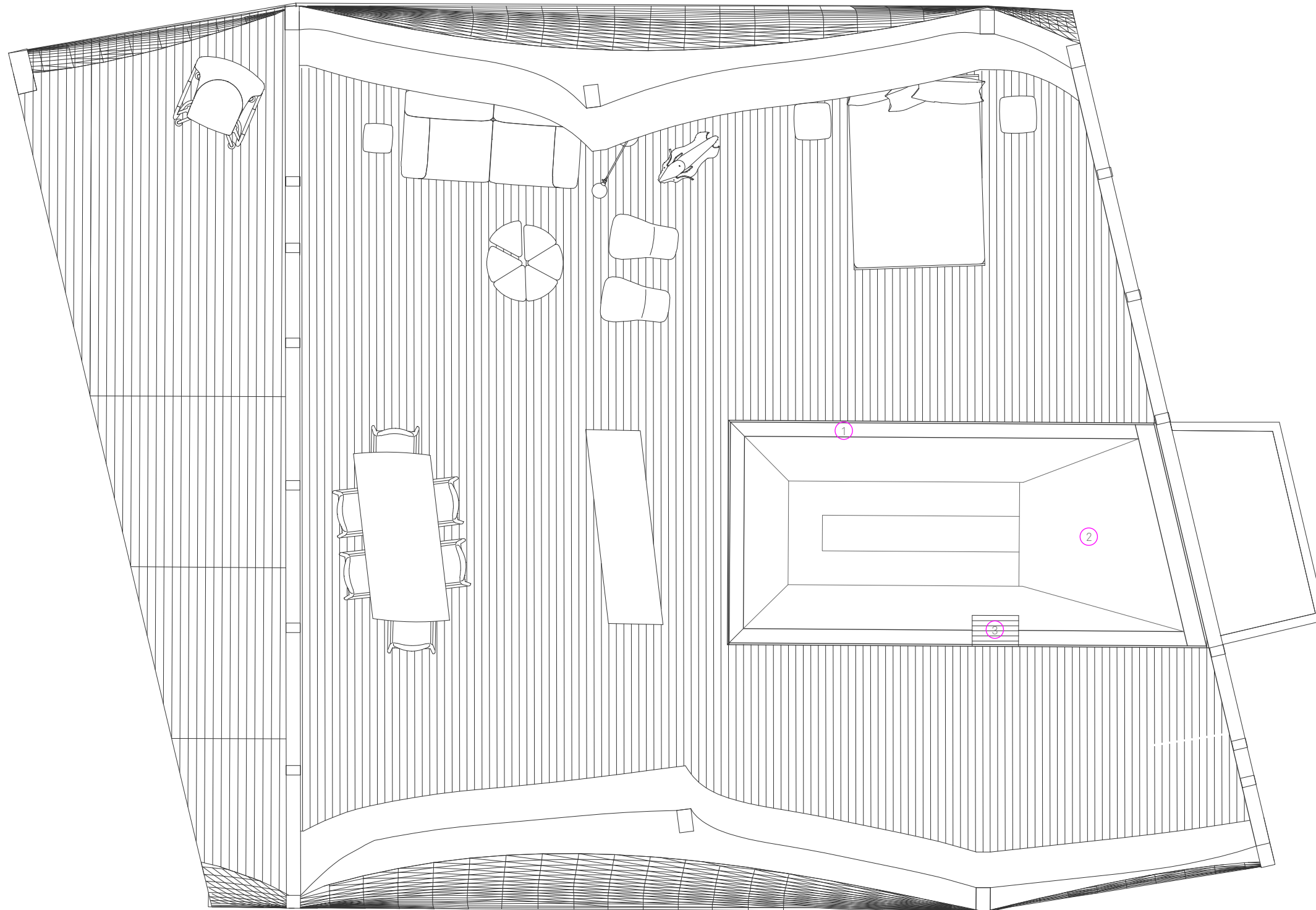


1 INTERIOR ELEVATION - LOOKING WEST

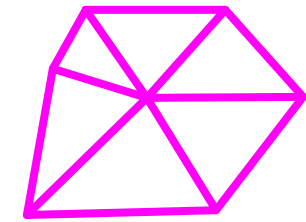
1 WHITE OAK LEDGE W/
ALUMINUM LIP TRIM

2 M1 FIRE RESISTANT
WOVEN TEXTILE OVER
MEMORY FOAM

3 LADDER ACCESS



1 LOFT PLAN



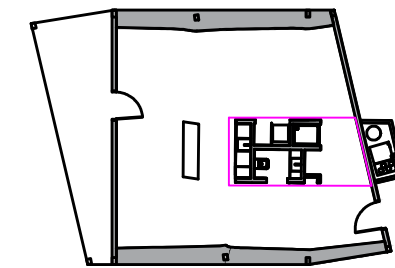
**TECHSTYLE
HAUS.**

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NOTES: See IN-303

STAMP

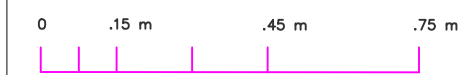
DRAWN BY: Colin Wienczek

CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

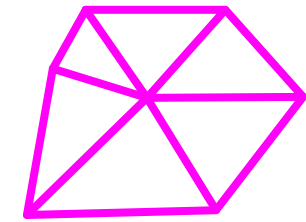
DATE: 3 November, 2014

SCALE: 1:15



IN-301

- ① Miele H6960 BP Oven
- ② Siemen EH375MV17E Induction Surface
- ③ Airforce Axial Downdraft Hood
- ④ Liebherr ICP 3314 Comfort Refridgerator
- ⑤ Lapeyre 3024030 Sink Basin
- ⑥ Siemens SN66V094EU Dishwasher 60 cm
- ⑦ Miele Washer/Dryer WT 2780 S

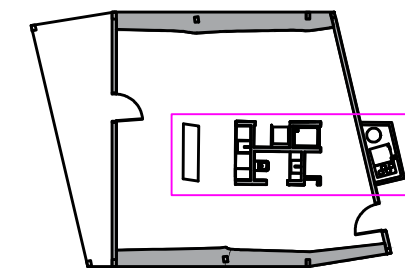


**TECHSTYLE
HAUS.**

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DRAWN BY: Colin Wienczek

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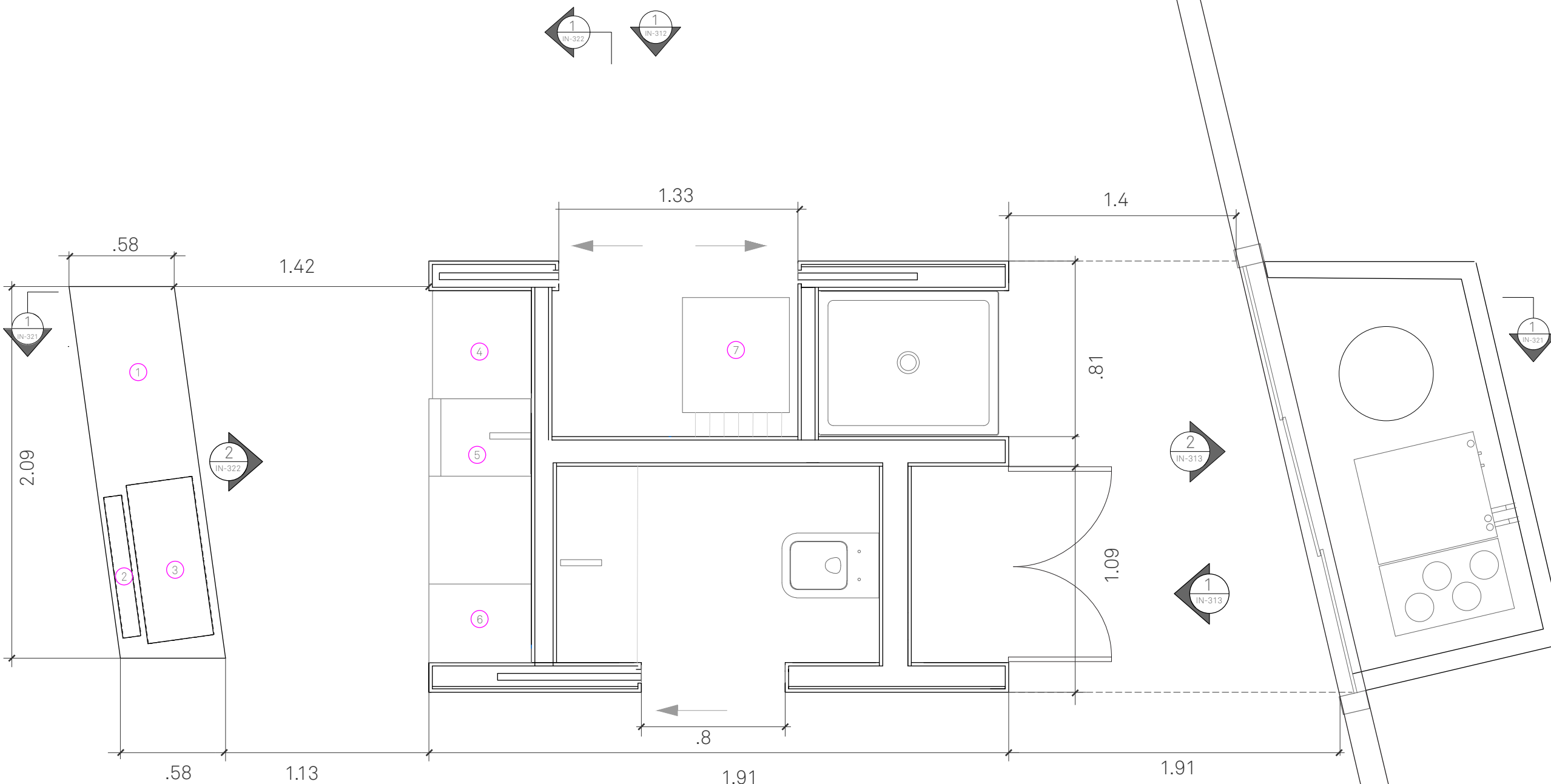
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DATE: 3 November, 2014

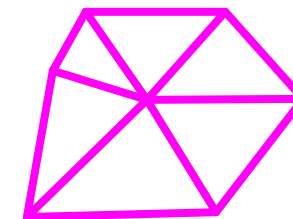
SCALE: 1:25



IN-302



① CORE PLAN



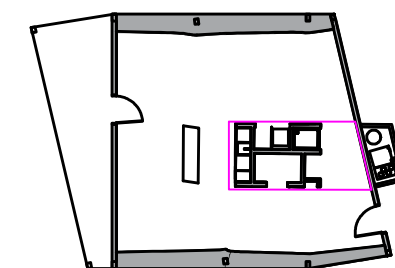
**TECHSTYLE
HAUS.**

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DRAWN BY: Colin Wienczek

CHECKED BY: Jonathan Knowles

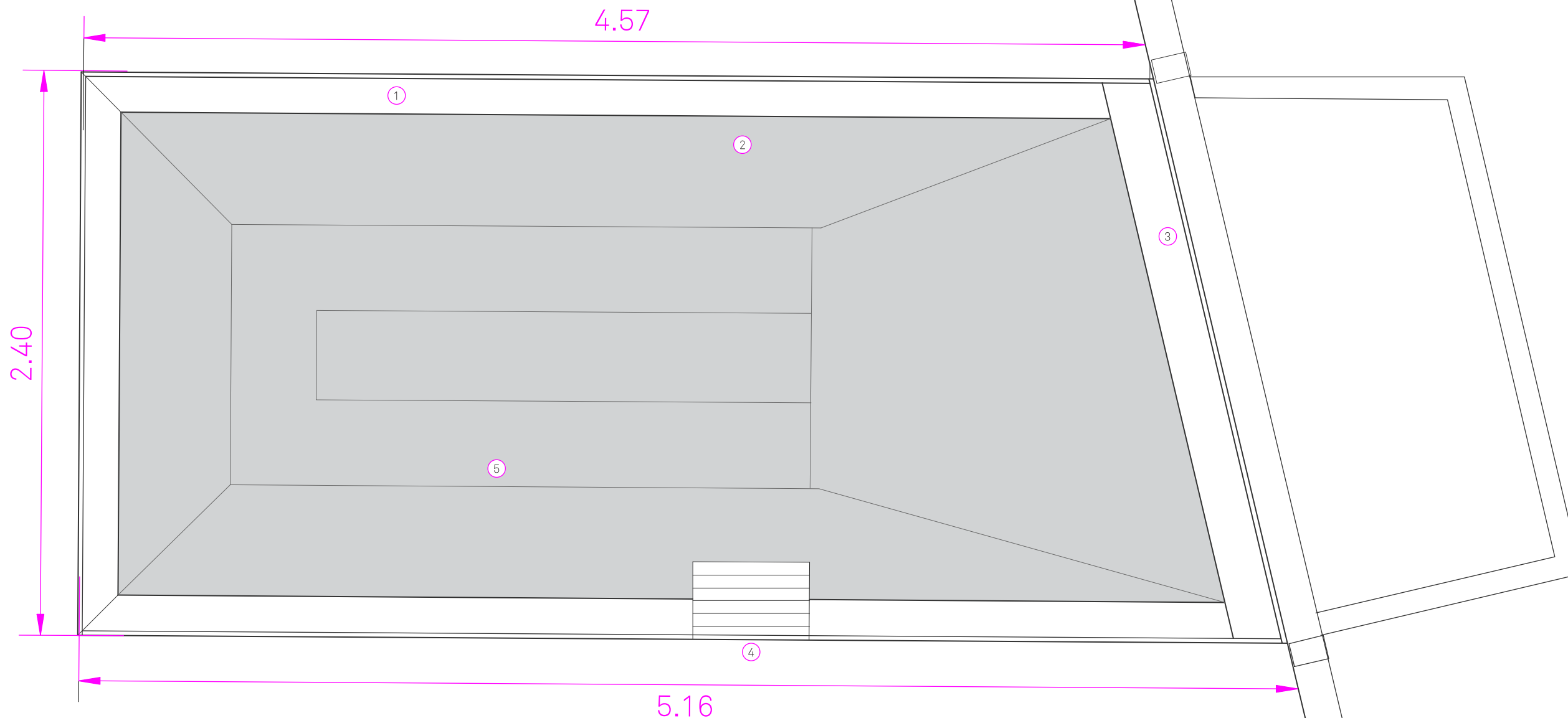
STATUS: Deliverable #7

DATE: 3 November, 2014

SCALE: 1:20



IN-303



① Quartersawn White Oak

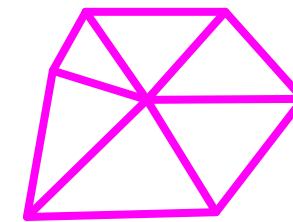
③ HVAC Access Point
Access to Daikin FDXS-25F in ramp
section of loft.

⑤ 3 Inch Upholstery Foam
Loft floor and bolsters are upholstered in
fire resistant, non toxic foam.

② Pierre Frey Textile
100% Trevira CS
M1 Fire Resistant Woven Textile

④ Loft Ladder Access
Loft is access through built in ladder
in the wall of the core.

① LOFT DETAILS



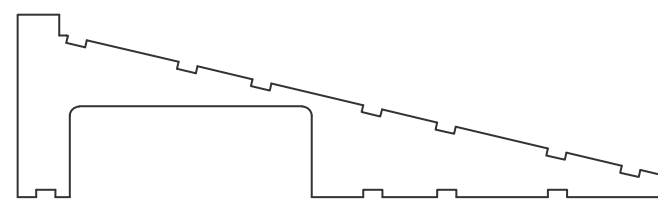
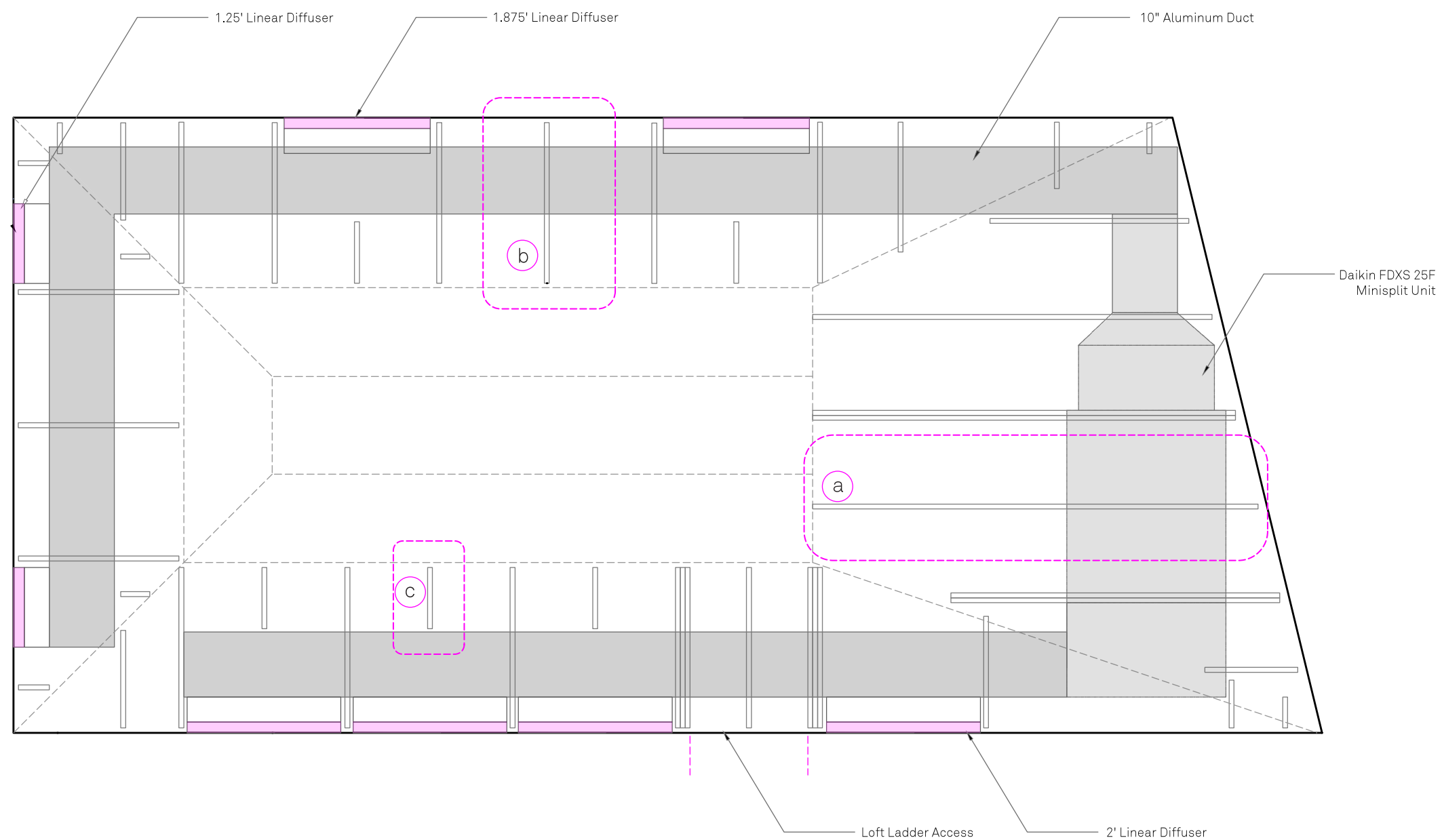
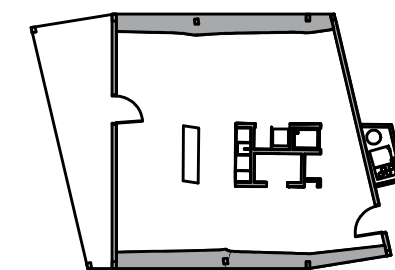
TECHSTYLE HAUS.

INSIDE OUT

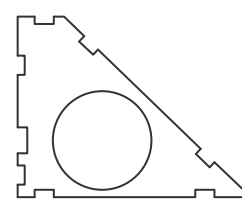
BROWN UNIVERSITY
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a LARGE FRAME SECTION



b MEDIUM FRAME SECTION



c SMALL FRAME SECTION

1 LOFT FRAMING PLAN

STAMP

DRAWN BY: Colin Wienczek

CHECKED BY: Jonathan Knowles

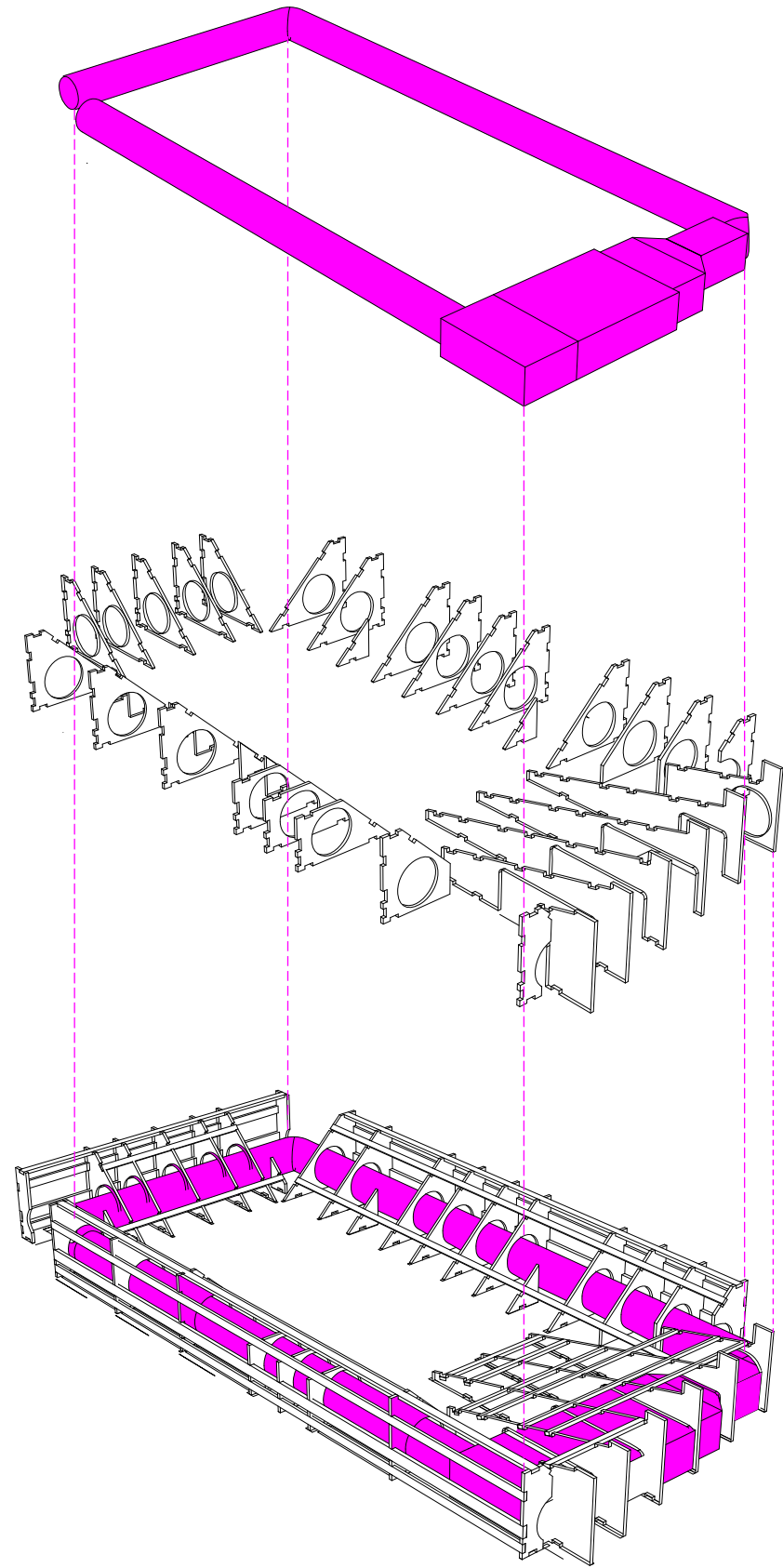
STATUS: Deliverable #7

DATE: 3 November, 2014

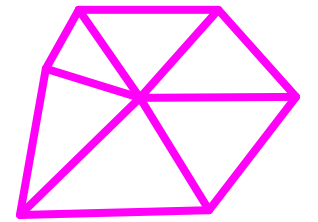
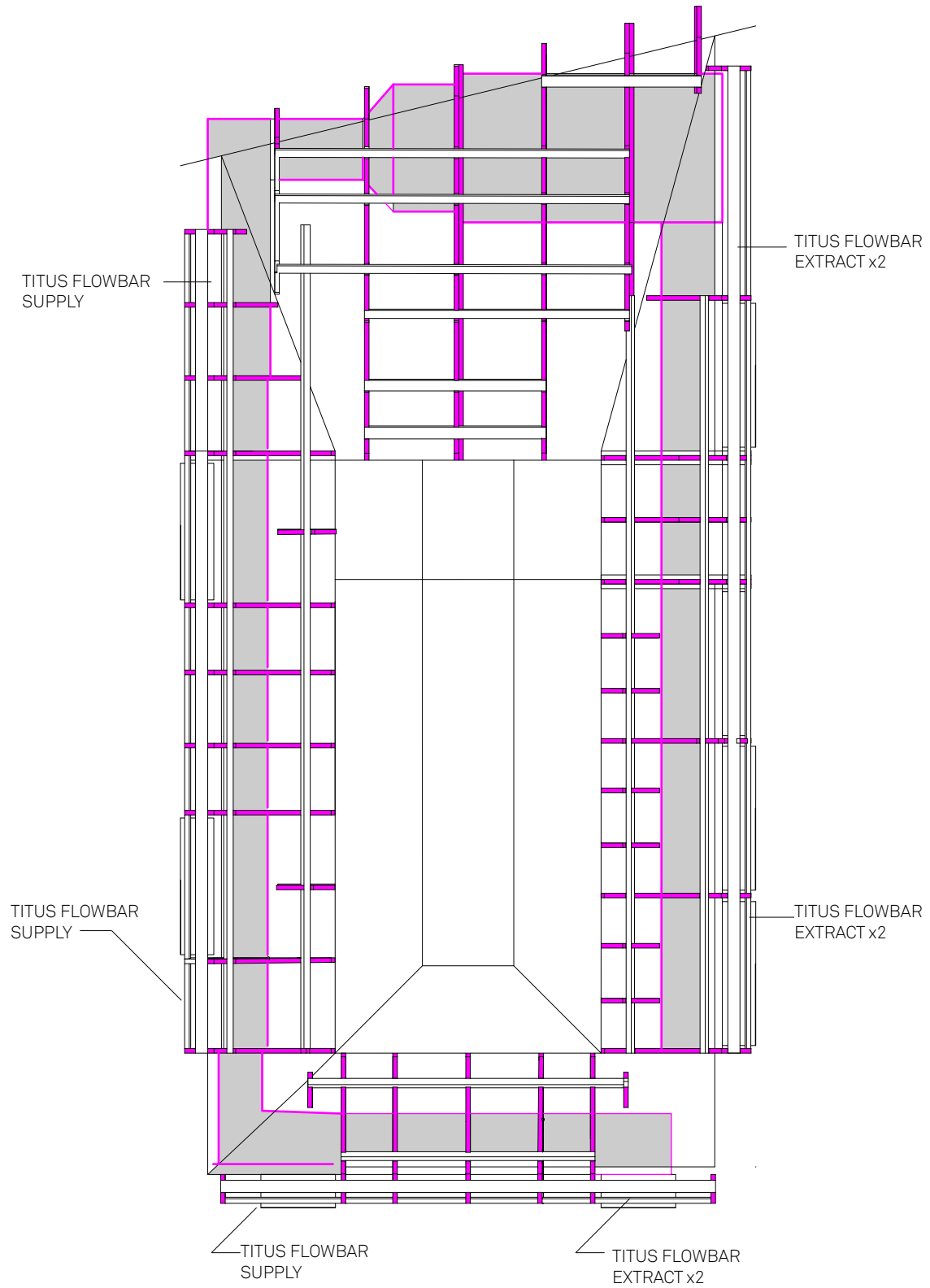
SCALE: 1:20



IN-304



1 CORE FRAME WITH COMPACT HVAC



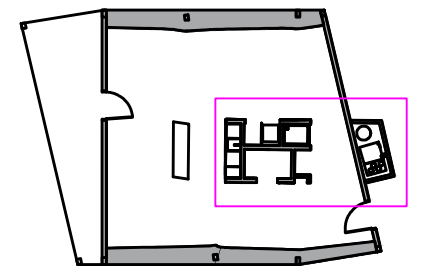
**TECHSTYLE
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DRAWN BY: Dorian Juncewicz

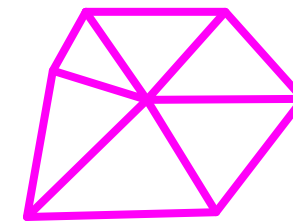
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SCALE: N/A

IN-305



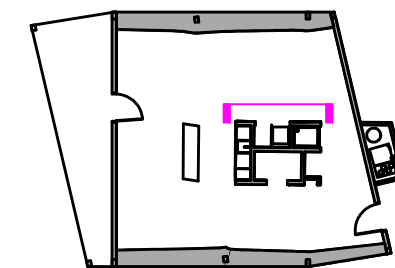
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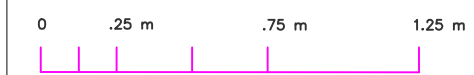
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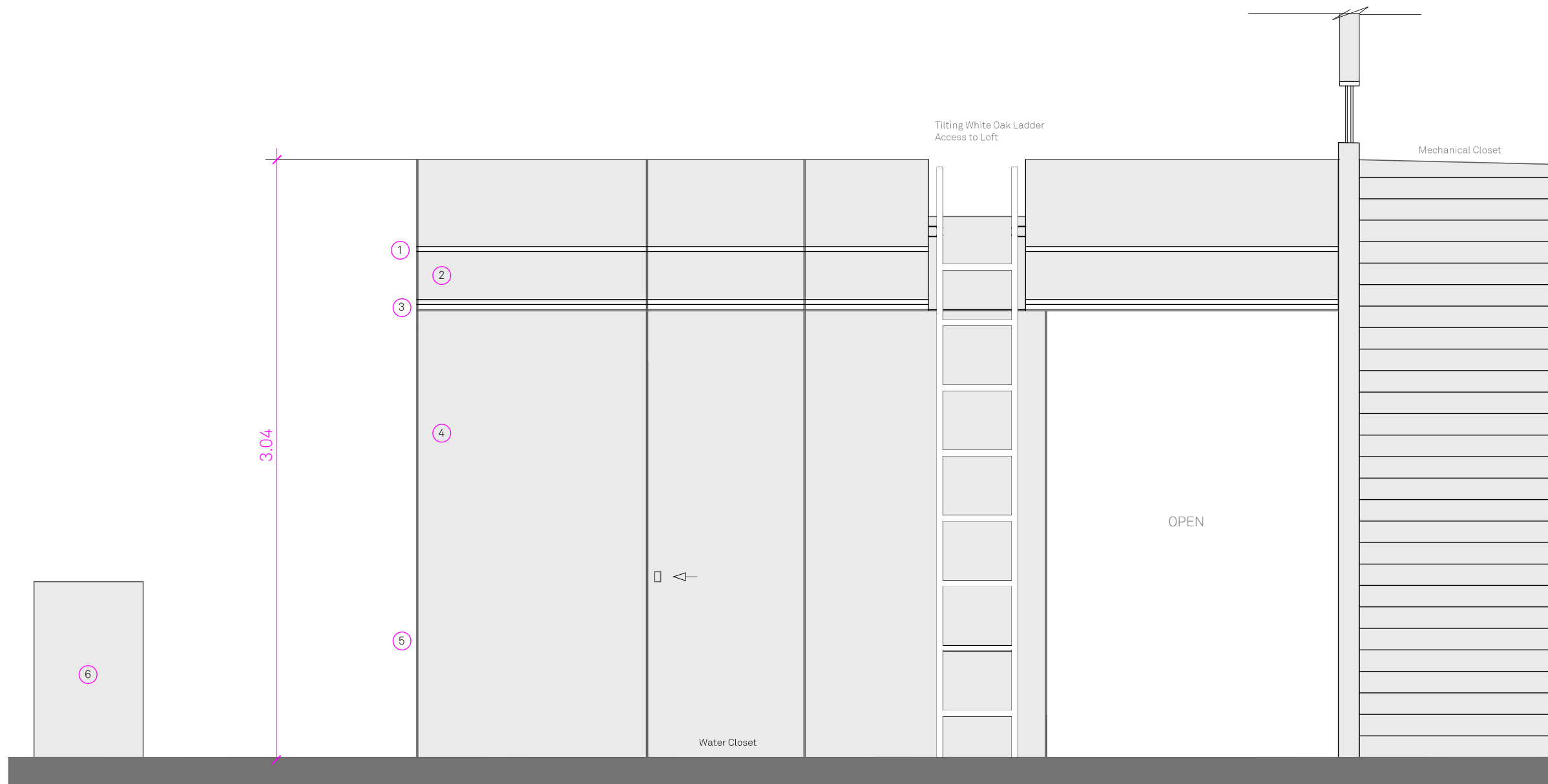
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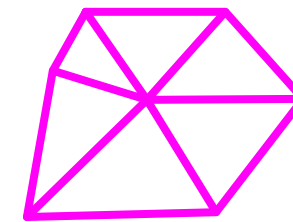


IN-311



- ① 1" Linear Diffuser, Cooling
- ② White Oak Horizontal Grain
- ③ 1" Linear Diffuser, Heating
- ④ White Oak Vertical Grain
- ⑤ Eagle Anodized Aluminum Corner Trim
- ⑥ Paperstone Walled Kitchen Island

① CORE ELEVATION WEST



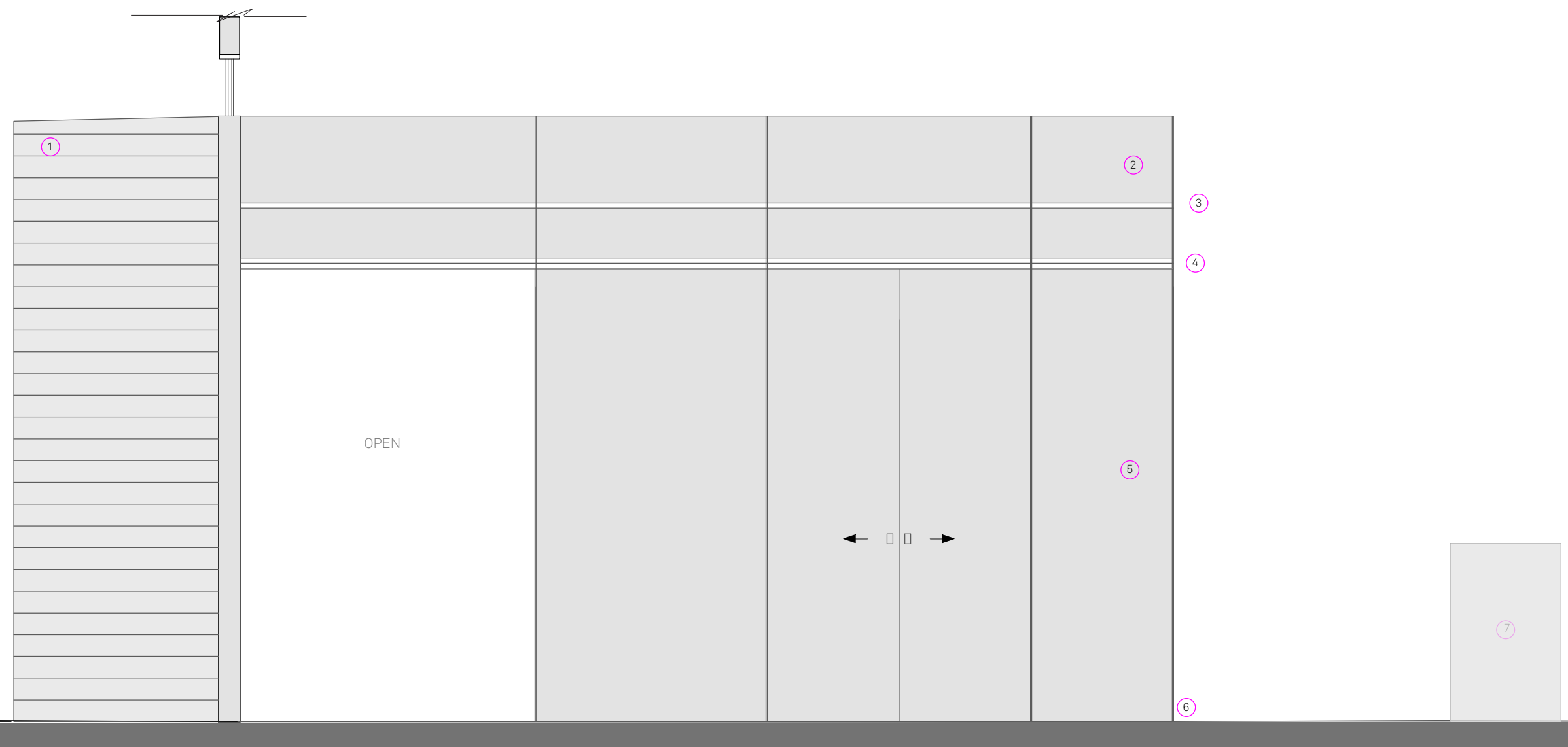
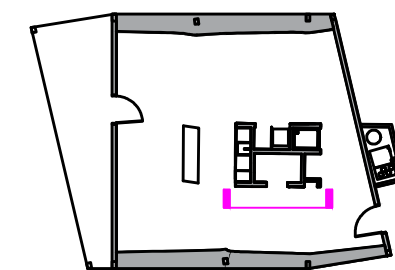
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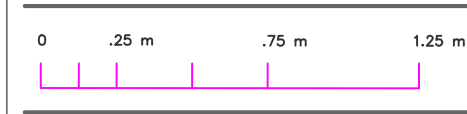


- ① Solid White Oak Rain Screen, Ships Lap Connection
- ② White Oak Horizontal Grain
- ③ 1" Linear Diffuser, Cooling
- ④ 1" Linear Diffuser, Heating
- ⑤ White Oak Panel, Vertical Grain
- ⑥ Eagle Anodized Aluminum Corner Trim
- ⑦ Paperstone Walled Kitchen Island

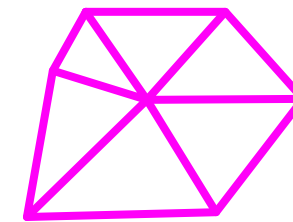
① CORE ELEVATION EAST

STAMP

DRAWN BY: Colin Wienczek
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STATUS: Deliverable #7
DATE: 3 November, 2014
SCALE: 1:25



IN-312

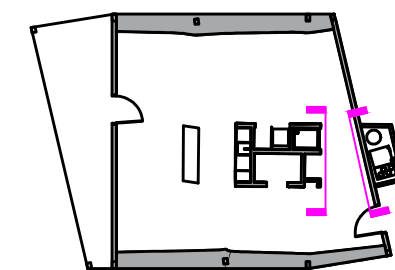


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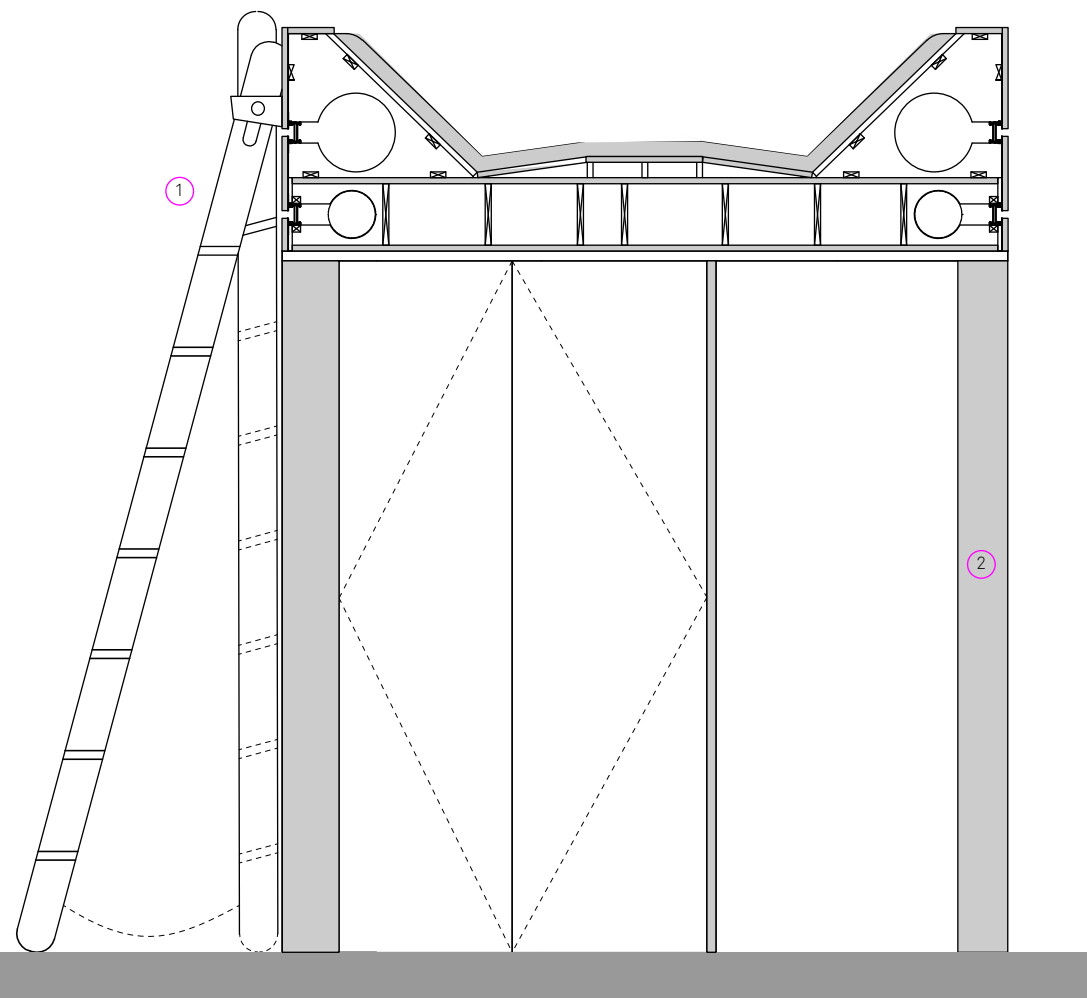
DATE: 3 November, 2014

SCALE: 1:25

0 .25 m .75 m 1.25 m



IN-313



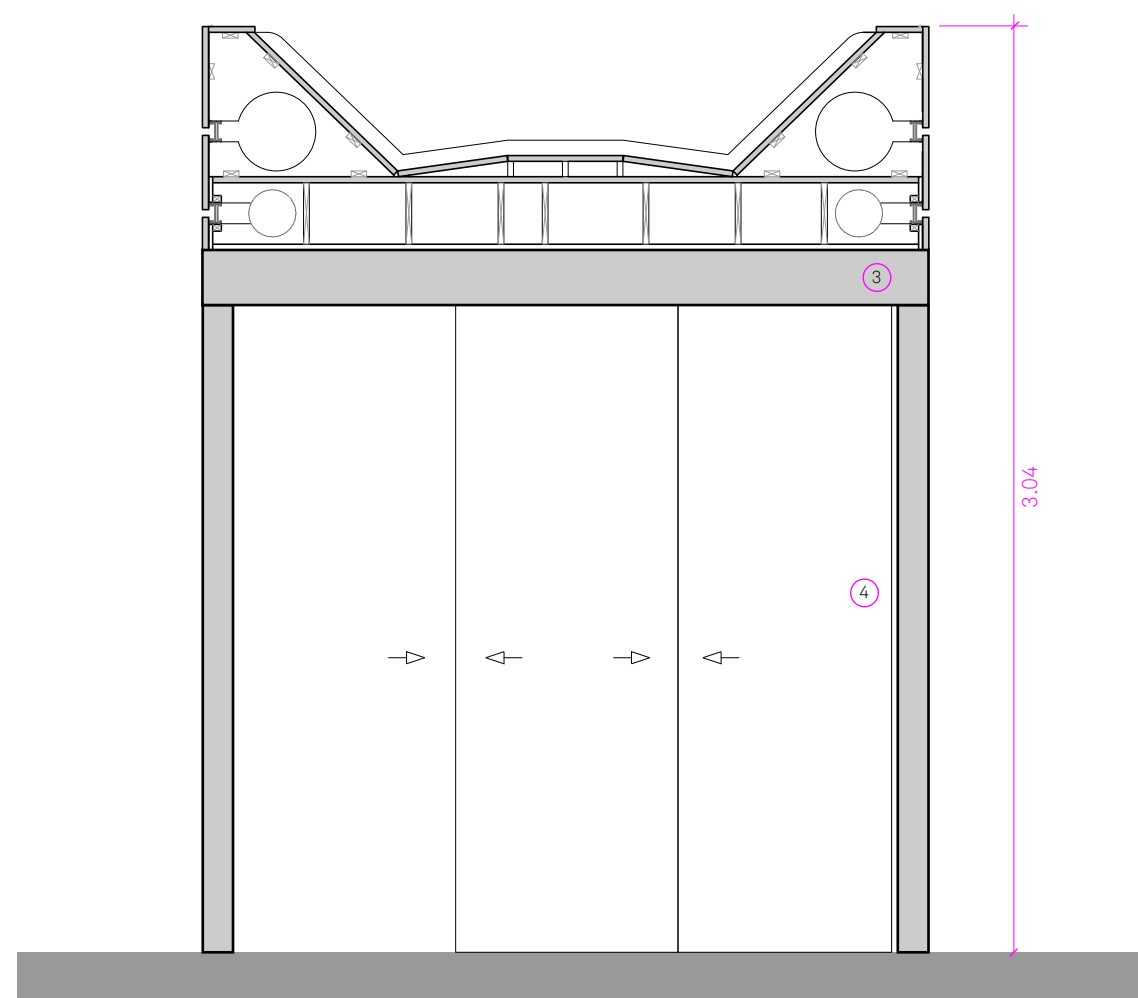
1 White Oak Pivoting Ladder
Access to Loft

2 White Oak Vertical Grain

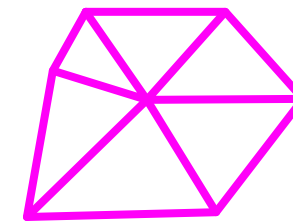
3 White Oak Panel
Horizontal Orientation

4 White Oak Doors with
Frosted Polycarbonate
Panels

1 CORE NORTH ELEVATION



1 MECHANICAL BOX ELEVATION



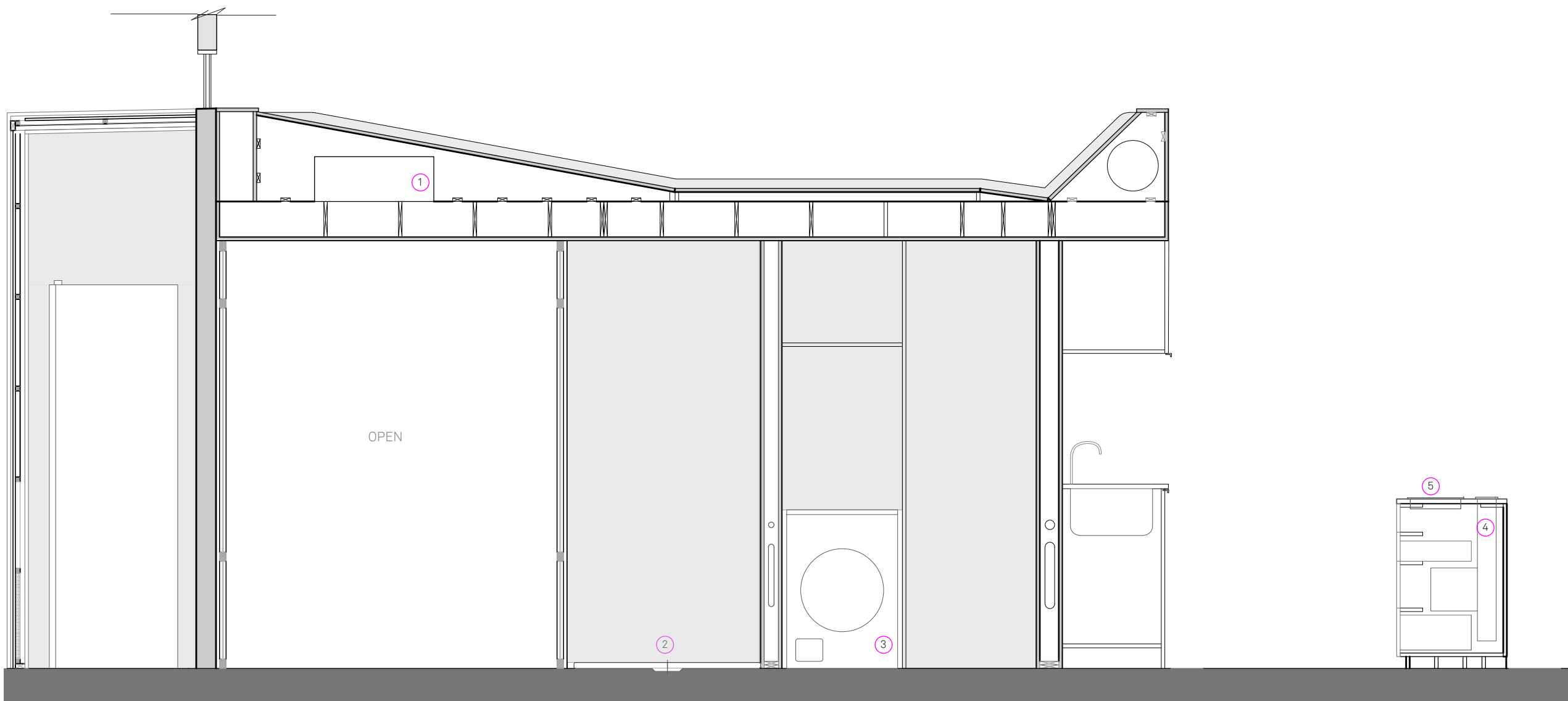
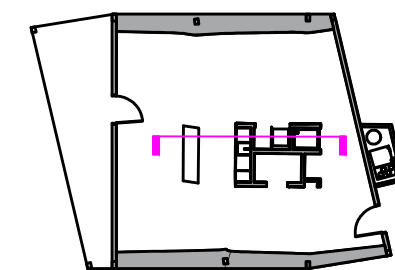
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1 Daikin FDXS-F Minisplit HVAC Unit

3 Miele WT 2780 S

5 Siemens EH375MV17E

2 Kaldewei Conoflat Shower Pan

4 Die Dietrich DHD1101X

1 EAST CORE SECTION

STAMP

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CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

DATE: 3 November, 2014

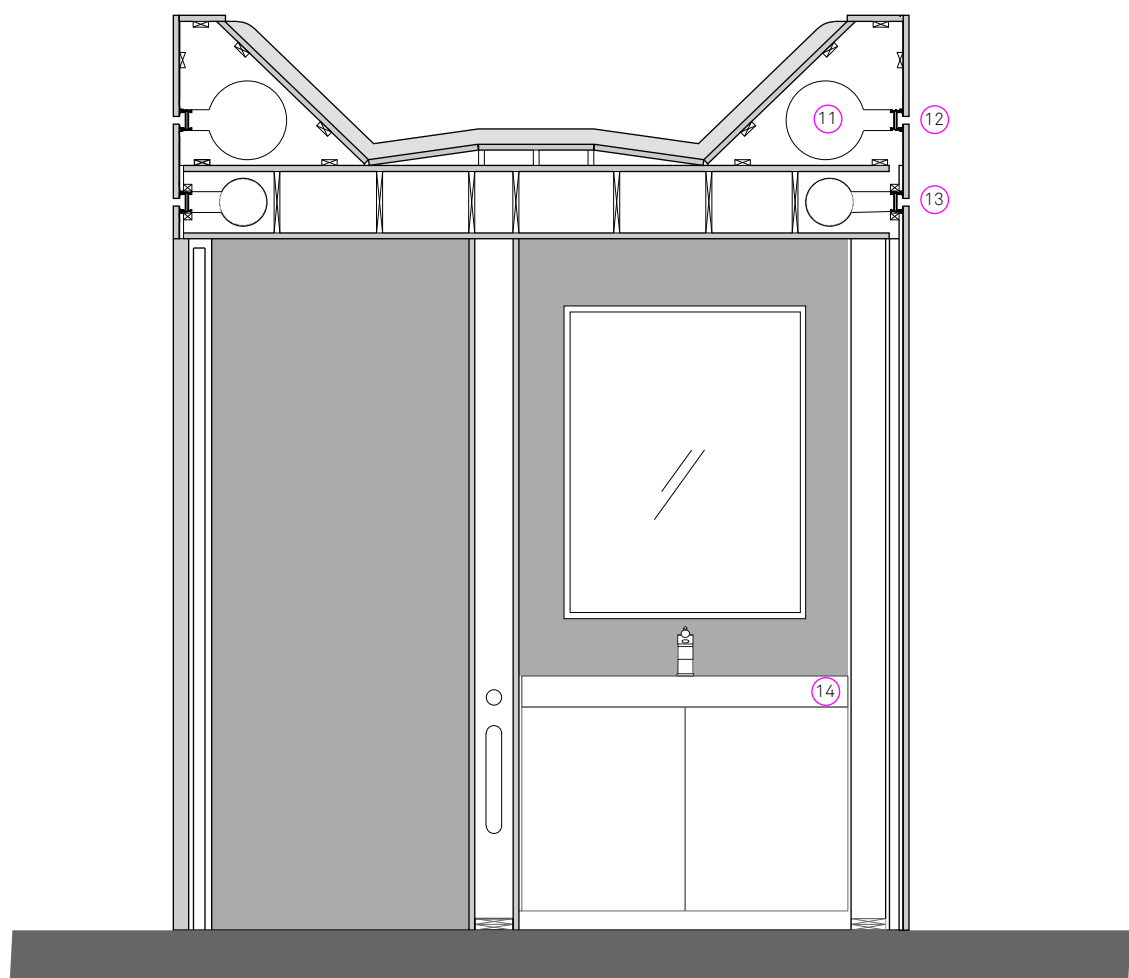
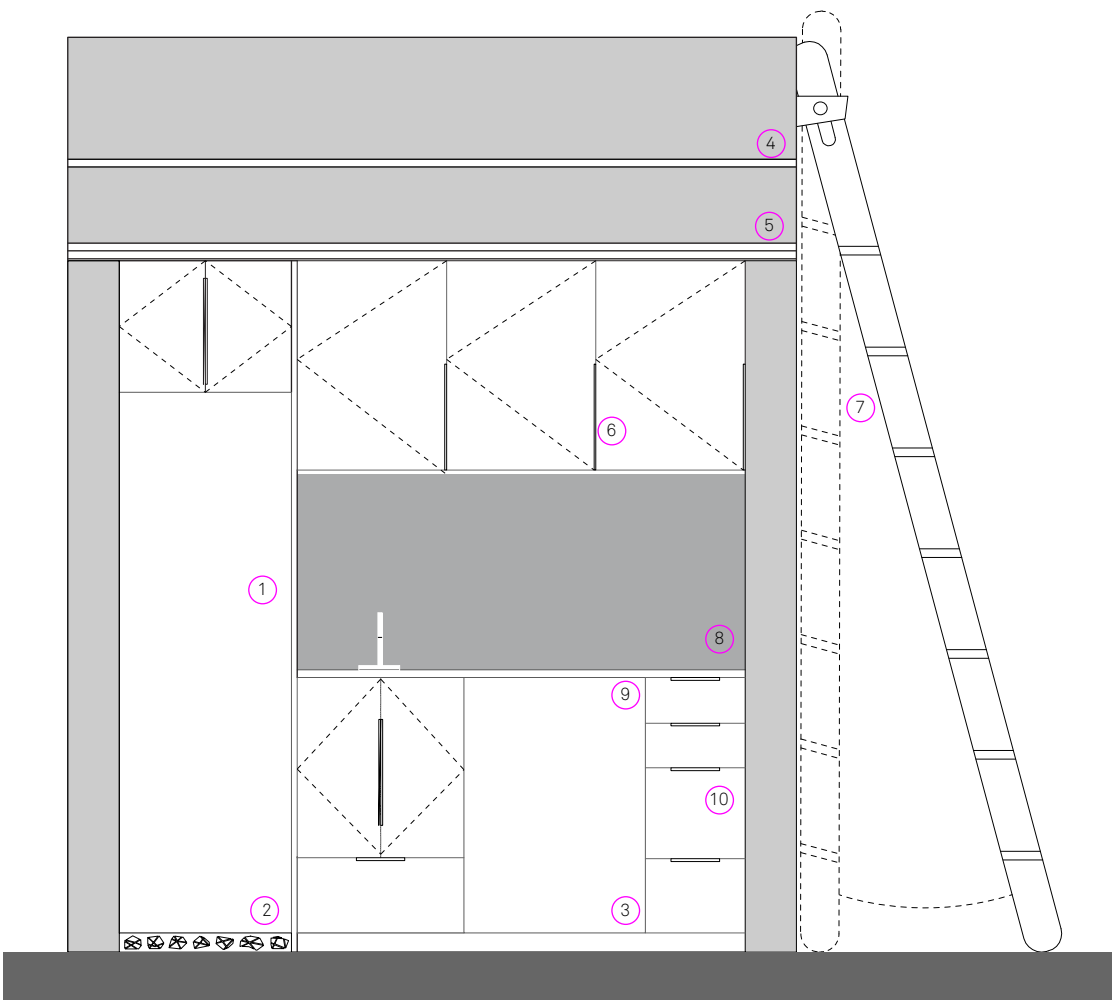
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IN-321

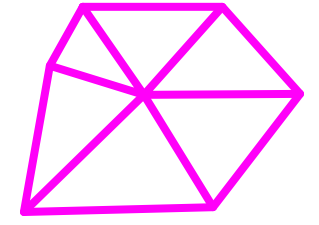
- 1 Libherr ICP 3314 Refrigerator
- 2 Custom laser cut aluminum air intake grill, cut with TechStyle Haus logo
- 3 Siemens SN66V09EU Dishwasher
- 4 1" Linear Diffuser, Cooling
- 5 1" Linear Diffuser, Heating
- 6 Aluminum Extrusion Door Pulls
- 7 White Oak Rotating Ladder Access to Loft
- 8 Chemetal #352 AluLight Aluminum Wall Finish
- 9 Pewter Paperstone Countertop FSC Certified Solid Surface
- 10 Aluminum Extrusion Drawer Pulls

- 11 10" Aluminum Duct
- 12 1" Linear Diffuser, Cooling
- 13 1" Linear Diffuser, Heating
- 14 Kohler Paneramic Sink



1 KITCHEN ELEVATION

2 WEST CORE SECTION



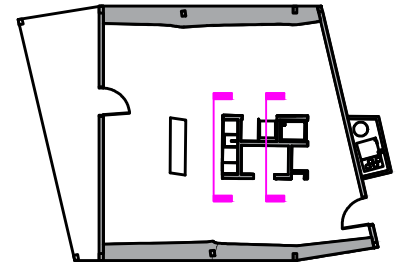
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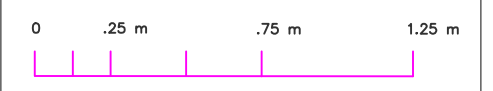
DRAWN BY: Colin Wienczek

CHECKED BY: Jonathan Knowles

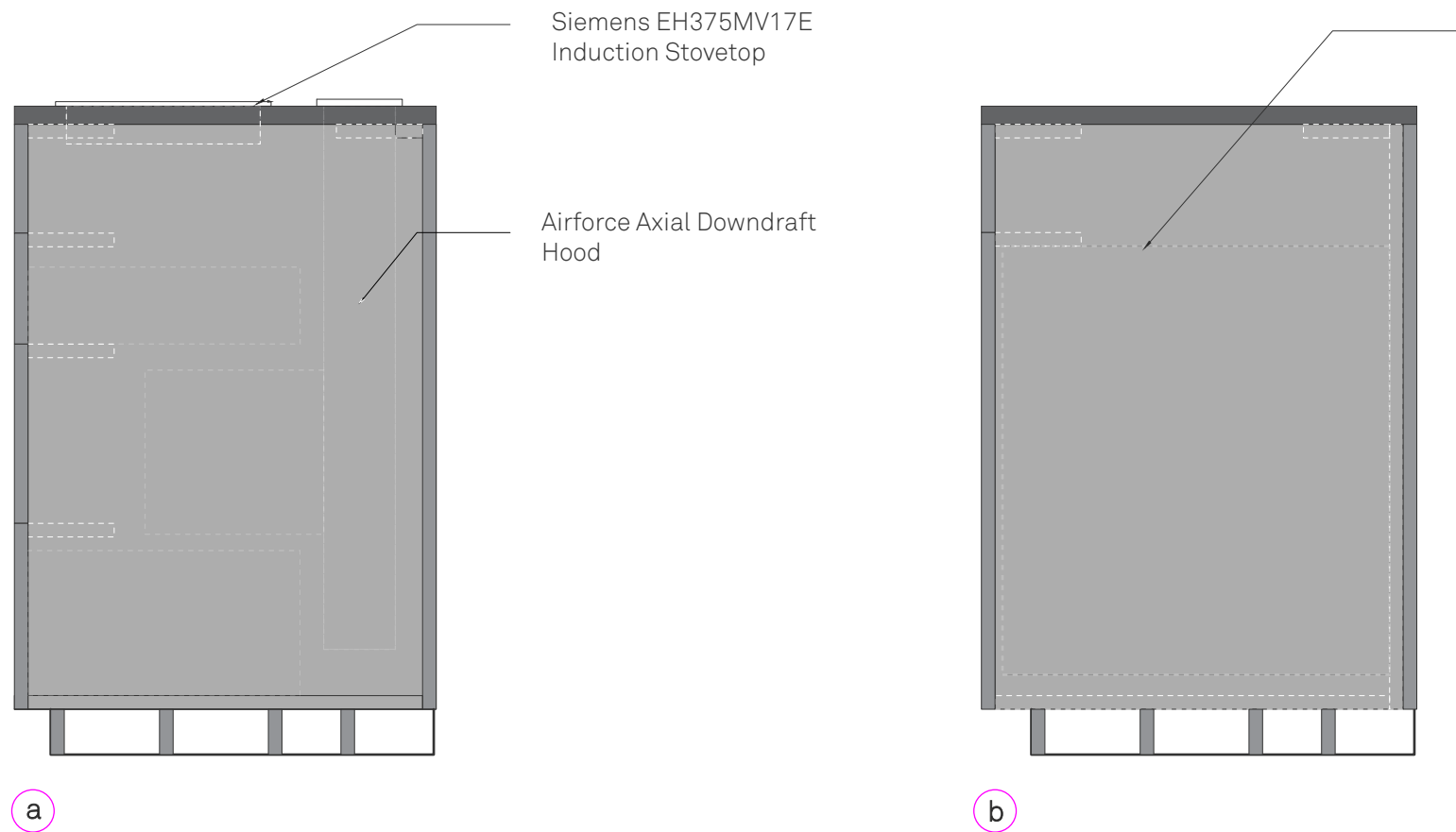
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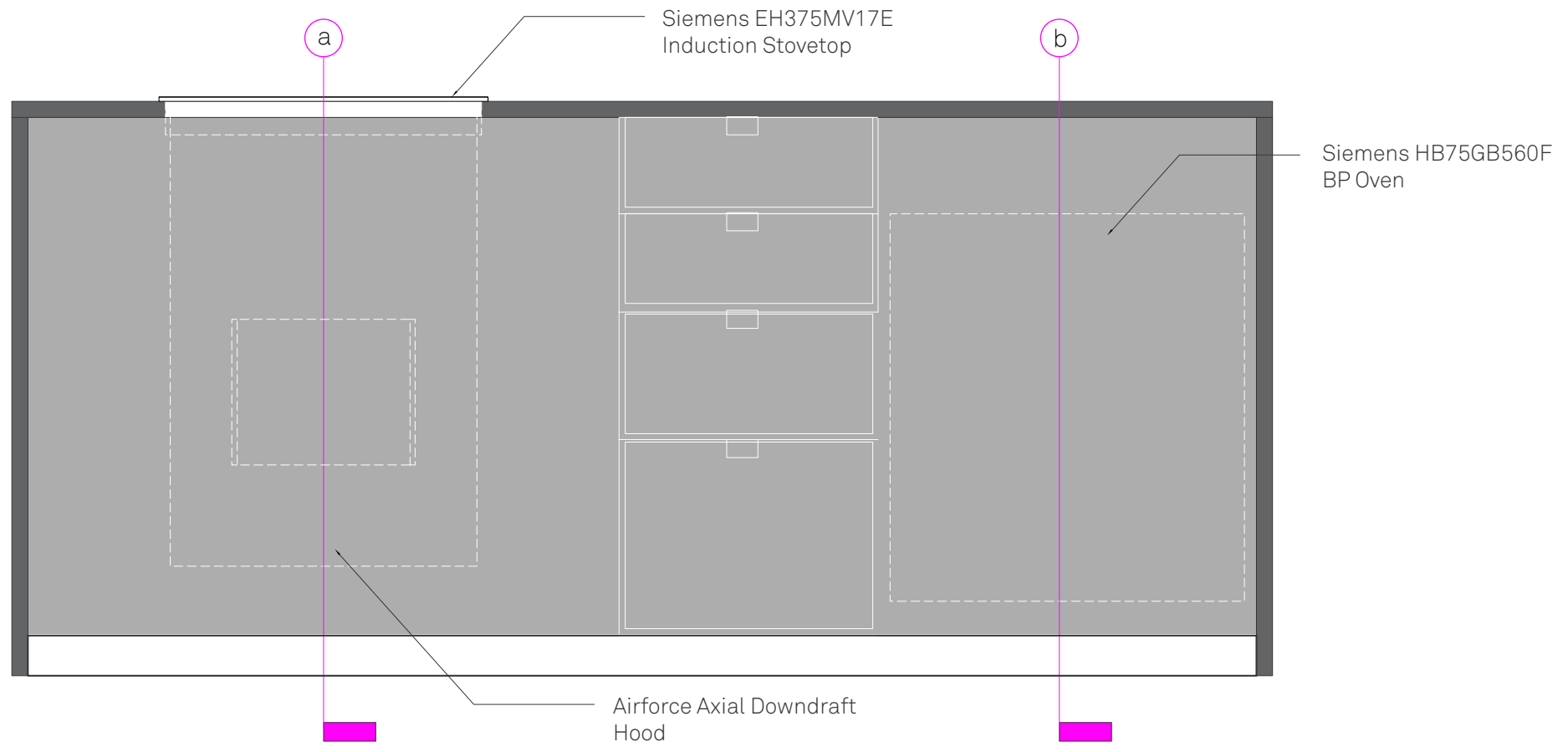


IN-322

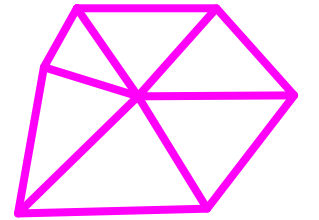


a

b



1 KITCHEN ISLAND SECTIONS AND ELEVATION

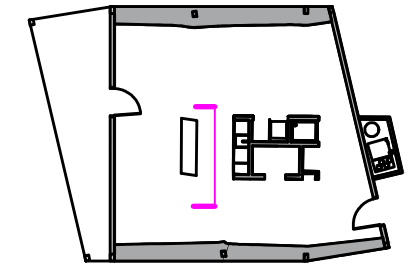


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DRAWN BY: Dorian Junczewicz

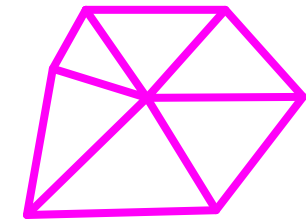
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DATE: 3 November, 2014

SCALE: N/A

IN-323



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DRAWN BY: Caterina Belardetti & Michael Claus

CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

DATE: 3 November, 2014

SCALE: N/A

IN-601

PART I GENERAL REQUIREMENTS AND DESIGN CRITERIA

1.1 SPECIFICATIONS

A. The work of these drawings addresses structural information for the steel structure only. The structural documents include these S-series Drawings and General Notes. There are no technical specifications in addition to these General Notes

1.2 GENERAL

A. This work is shown for a Providence, RI build only. Any other use of the structure is to be covered by an Engineer of Record for that location.

B. Unless otherwise noted, details, sections and notes contained in the structural contract documents shall be considered typical for all similar conditions even if not explicitly referenced.

C. Deficient work and/or work not in conformance with the contract documents shall be repaired at the contractor's expense. The contractor shall compensate the client for services arising from deficient work, review of modifications/contractor substitution, or expediting of submittals.

D. Cost of investigation and/or redesign incurred by the Engineer of Record due to contractor errors will be at the contractor's expense.

E. The contractor shall submit a single dimensioned and coordinated drawing for each area showing the locations of all sleeves and openings required by all trades prior to initiating any work.

F. Loads imposed on the base structure and temporary conditions intended to accommodate construction means and methods are not explicitly considered in this design. The contractor shall advise the Engineer of Record regarding construction loads and temporary conditions imposed on the structure and shall compensate the Engineer of Record for reviewing these conditions.

1.3 ELEVATIONS & DIMENSIONS

A. All dimensions shown for new construction are for information only. Dimensions for construction are to be taken from the Architectural Drawings. Field verify all elevations and dimensions before proceeding with construction.

1.4 BUILDING CODE

A. International Building Code 2009.

1.5 DESIGN LOADS

A. Dead Loads: All permanent stationary construction.

B. Live loads

1. Typical Floor Areas: 60 psf

2. All other Live Loads on the steel structure obtained from fabric forces provided by Saint-Gobain.

1.6 SUBMITTALS

A. Submit shop drawings, certifications, product data, etc. as described herein to the Engineer for approval prior to fabrication and installation.

PART II STRUCTURAL STEEL

2.1 STRUCTURAL SHAPES:

A. Wide Flange Shapes: ASTM A992
B. Angles: ASTM A36, U.O.N.
C. Channels: ASTM A36, U.O.N.
D. Plates: ASTM A36, U.O.N.

2.2 HOLLOW STRUCTURAL SHAPES (HSS):

ASTM A500 Grade B- (FY = 46,000 PSI)

2.3 BOLTED AND THREADED ROD CONNECTIONS:

Galvanized ASTM A325.

2.4 WELDING ELECTRODES:

Conform to AWS Specifications for electrodes based on welding process and the type and grade of steel. E70XX electrodes (min.) for fillet welds.

2.5 FABRICATION:

Shop fabricate to greatest extent possible by welding including beam stiffeners, column caps and bases, holes and connections. Submit complete shop drawings from field dimensions for the Architect's approval of all structural steel prior to fabrication.

2.6 ERECTION:

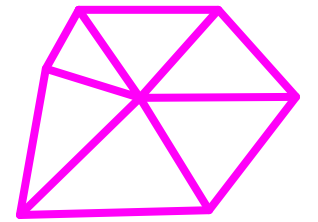
Provide steel wedges, threaded screws or shims to support and plumb all ribs. Do not field cut or field modify any structural steel without prior written approval by Engineer for each specific case.

2.7 PAINT:

Shop prime all steel that is not fireproofed. See Architectural Drawings for finish coat requirements.

2.8 STANDARD SPECIFICATIONS AND REFERENCE STANDARDS

A. AISC 360 Specification for Structural Steel Buildings
B. AISC 341 Seismic Provisions for Structural Steel Buildings, Including Supplement No.1
C. AWS D1.1 Structural Welding Code - Steel



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DRAWN BY: Rory Stevens

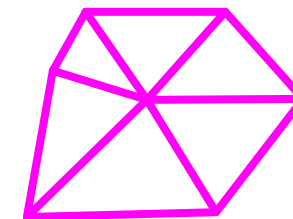
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ST-001



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STATUS: Deliverable #7

DATE: 3 November, 2014

SCALE: N/A

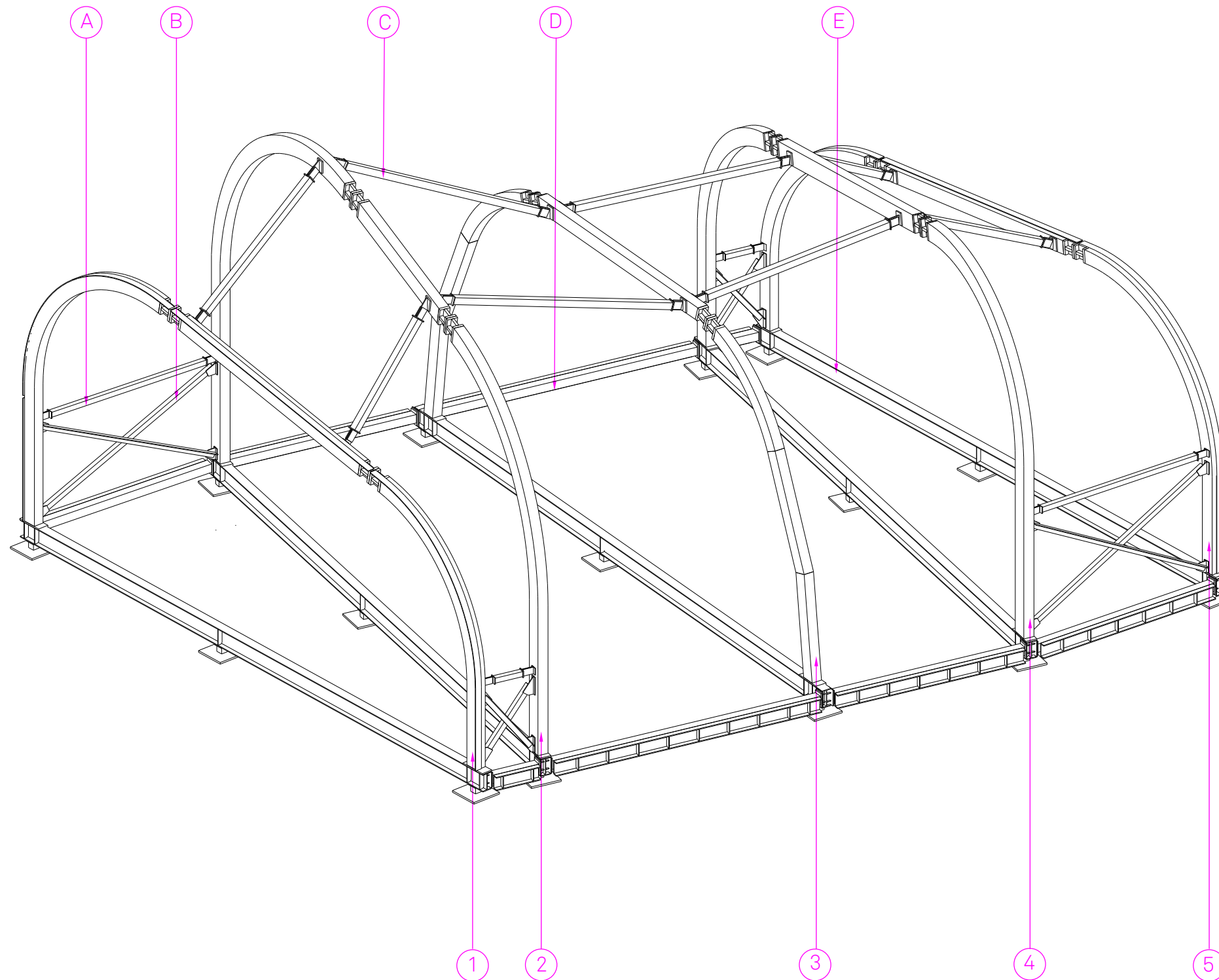
A TOP BRACES 3 x 3 x 3/8 A500 Gr.42

B DIAGONALS L3 x 3 x 3/8 A36

C STRUTS HSS 4 x 4 x 1/4 A500 Gr.42

D EDGES HSS 5 x 5 1/4 A500 Gr.42

E FLOOR W10 x 26 A572 Gr.50



1 RIB HSS 8 x 6 x 3/8 A500 Gr.42

2 RIB HSS 10 x 6 x 1/2 A500 Gr.42

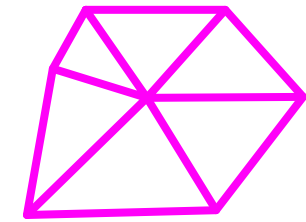
3 RIB HSS 8 x 6 x 1/4 A500 Gr.42

4 RIB HSS 10 x 6 x 1/2 A500 Gr.42

5 RIB HSS 8 x 6 x 3/8 A500 Gr.42

1 STRUCTURAL AXON DIAGRAM

ST-002



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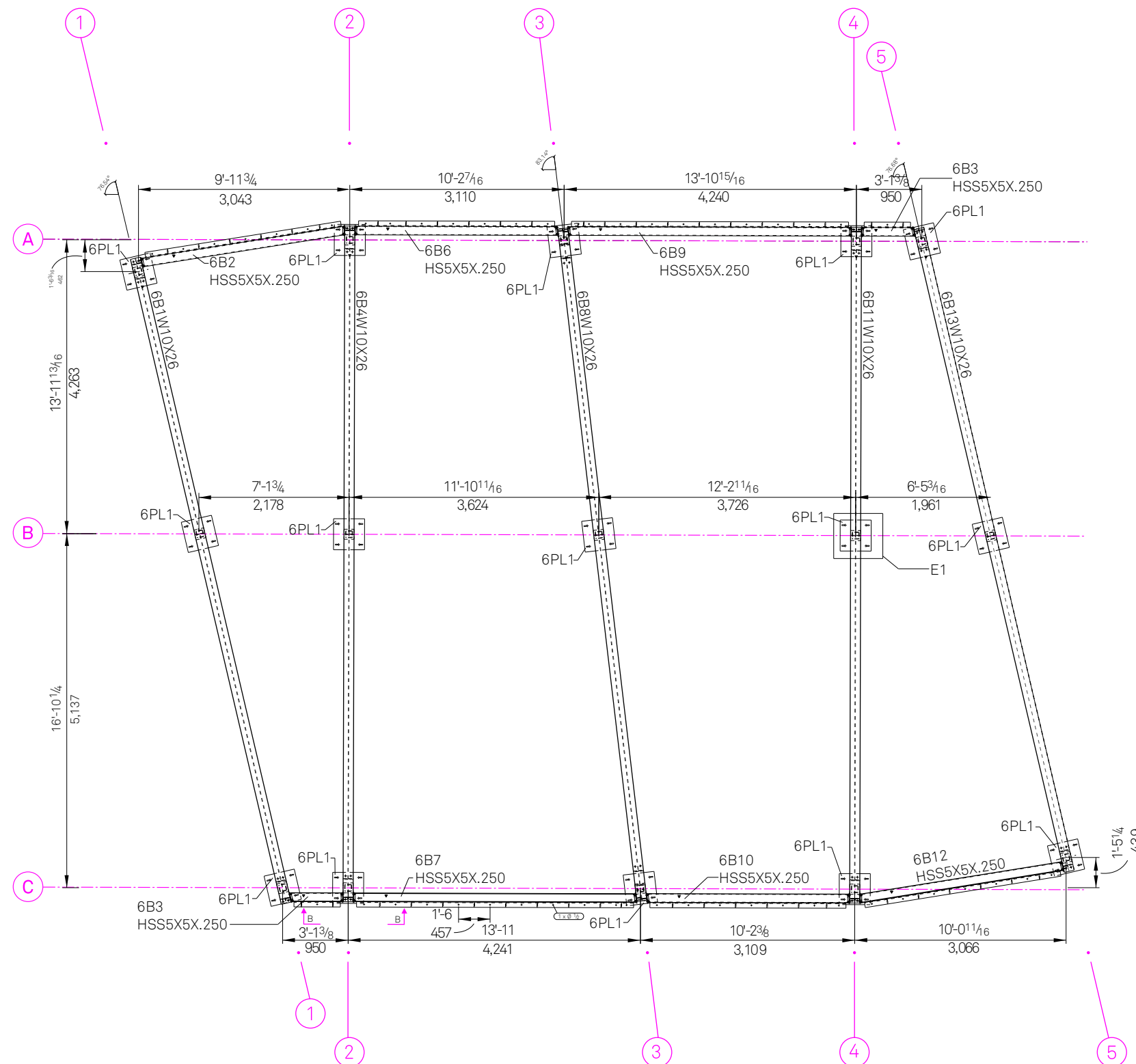
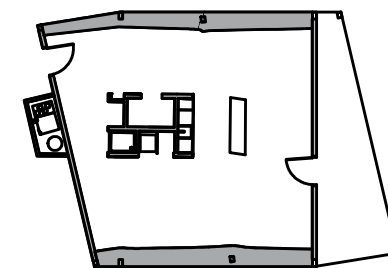
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*NOTE: see page ST-305 for footing detail



1 FOUNDATION PLAN

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CHECKED BY: Jonathan Knowles

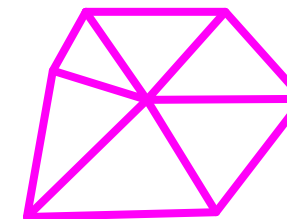
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ST-003



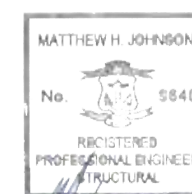
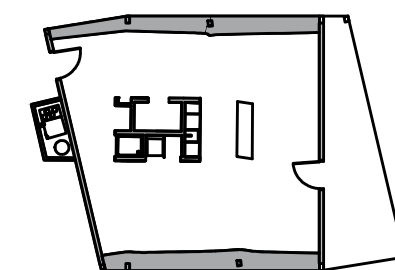
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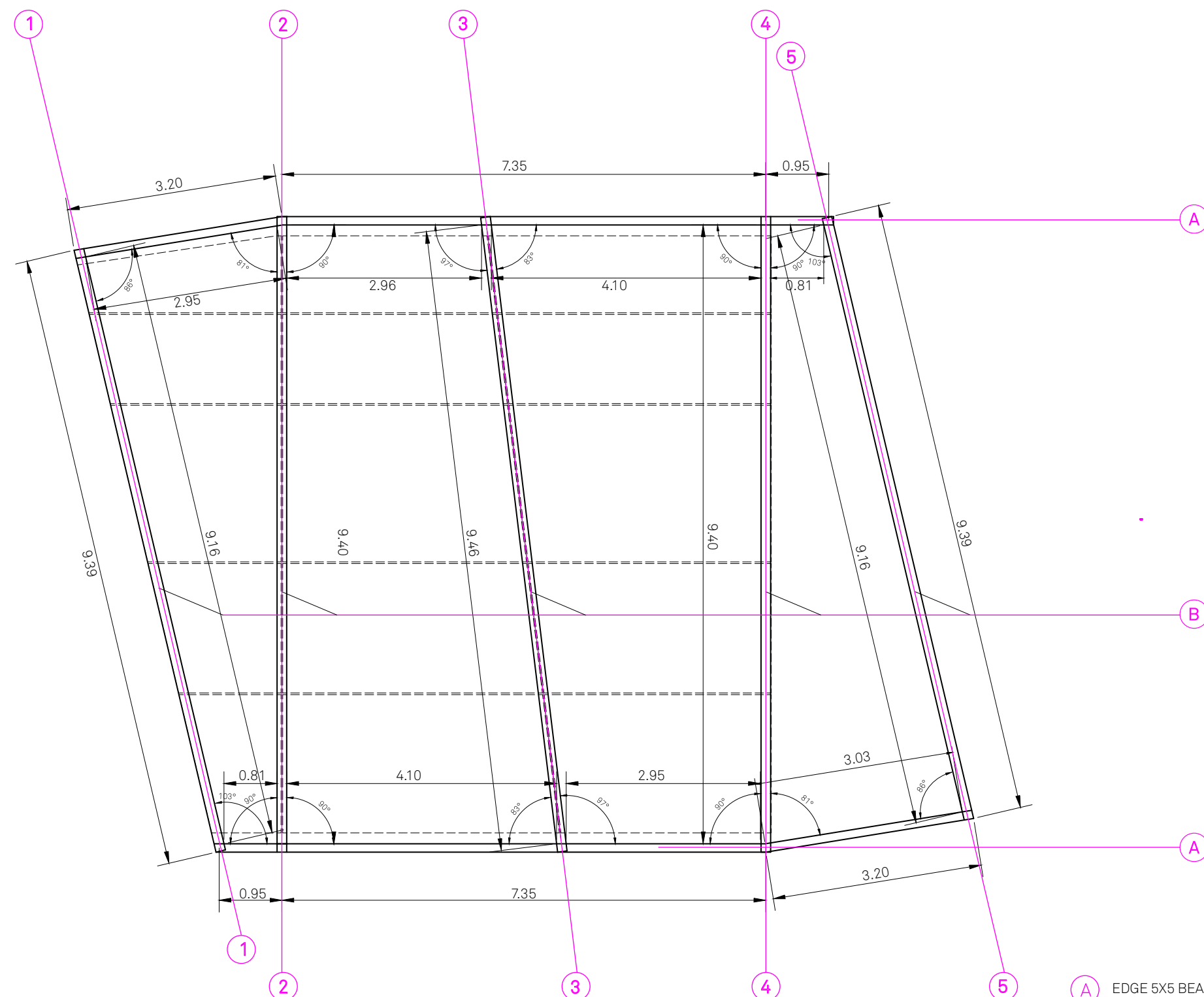
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CHECKED BY: Jonathan Knowles

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DATE: 3 November, 2014

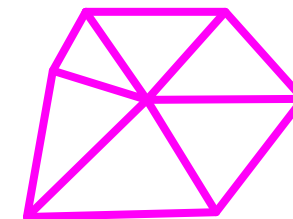
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- (A) EDGE 5X5 BEAM A 500 GR. 42 (TYP)
- (B) FLOOR W10X26 BEAM A572 GR. 50 (TYP)
- - - PALLET LOCATION ON STEEL

1 STRUCTURAL FLOOR PLAN

ST-011



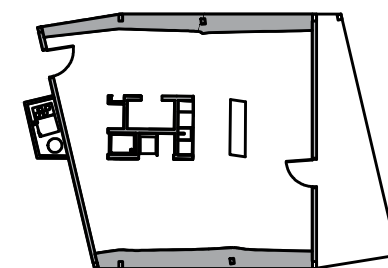
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CHECKED BY: Jonathan Knowles

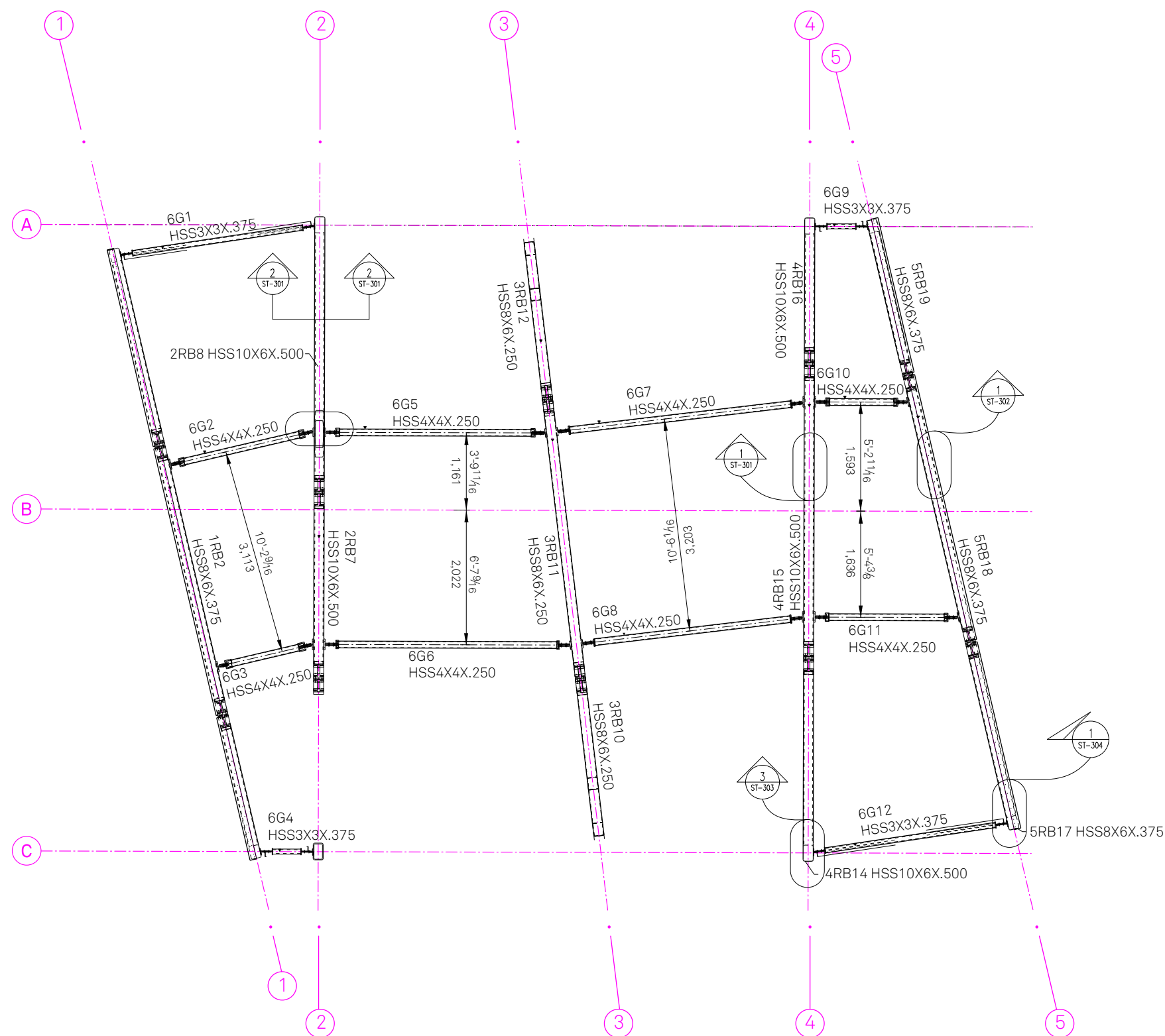
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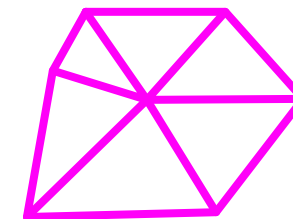


ST-021



- ① RIB 20.3 CM X 15.2 CM
- ② RIB 25.4 CM X 15.2 CM
- ③ RIB 20.3 CM X 15.2 CM
- ④ RIB 25.4 CM X 15.2 CM
- ⑤ RIB 20.3 CM X 15.2 CM

① STRUCTURAL RIB PLAN



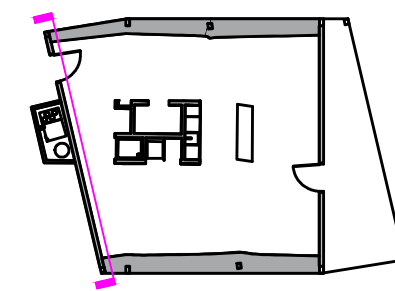
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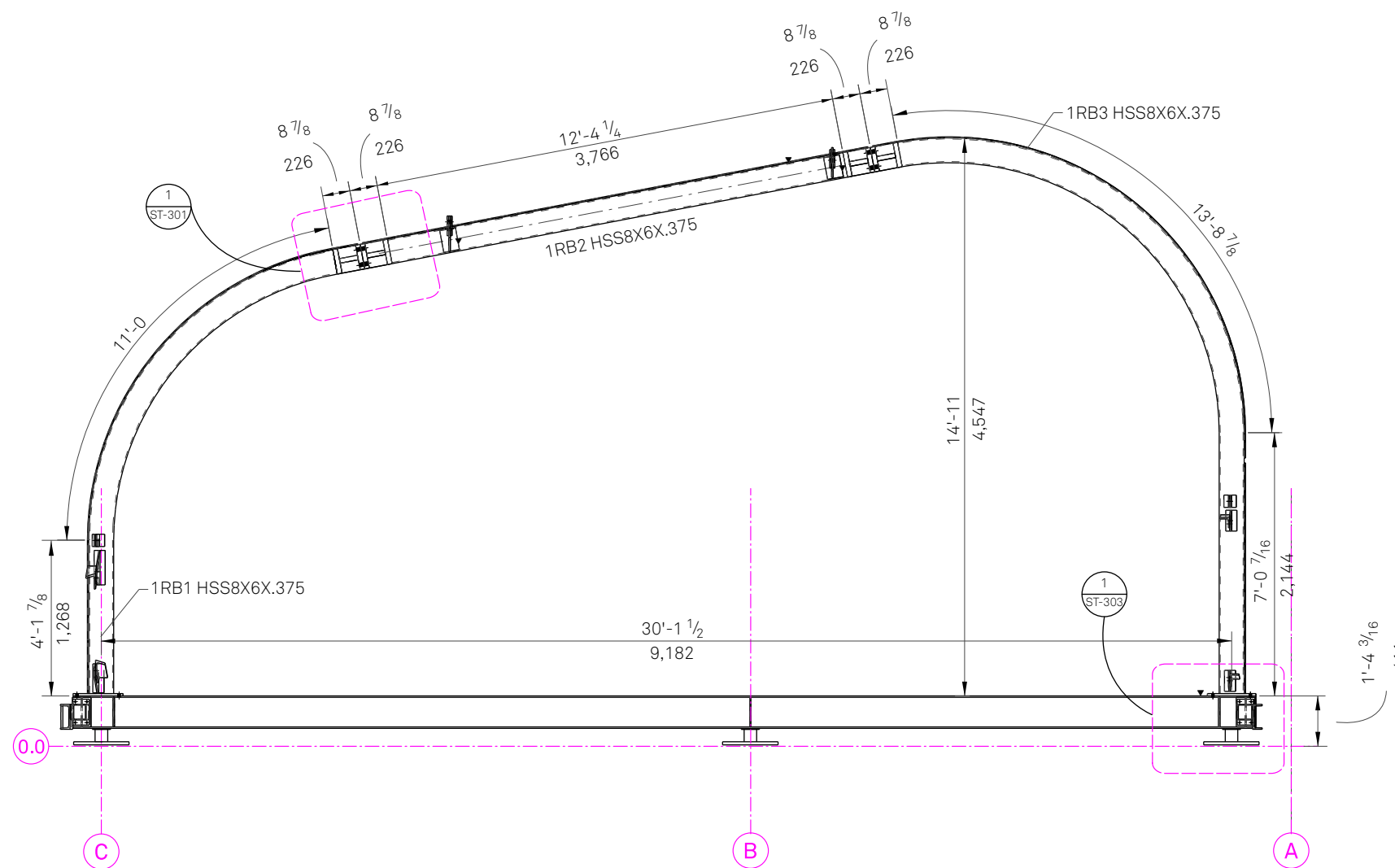
STATUS: Deliverable #7

DATE: 3 November, 2014

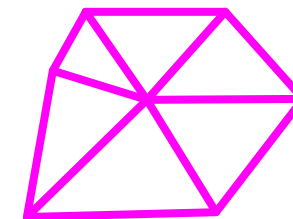
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ST-201



1 RIB 1 ELEVATION



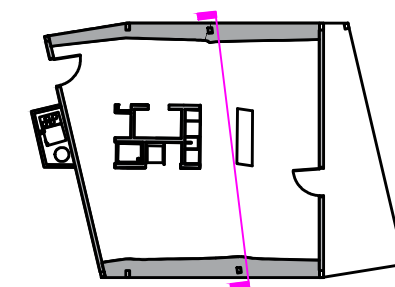
**TECHSTYLE
HAUS.**

INSIDE OUT

BROWN UNIVERSITY
75 Waterman Street
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+1-401-863-1000

FACHHOCHSCHULE ERFURT
Altonaer Straße 25
99085 Erfurt
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+49-361-6700-443

RHODE ISLAND SCHOOL
OF DESIGN
2 College Street
Providence, RI 02903
United States
+1-401-454-6100



STAMP

DRAWN BY: Rory Stevens

CHECKED BY: Jonathan Knowles

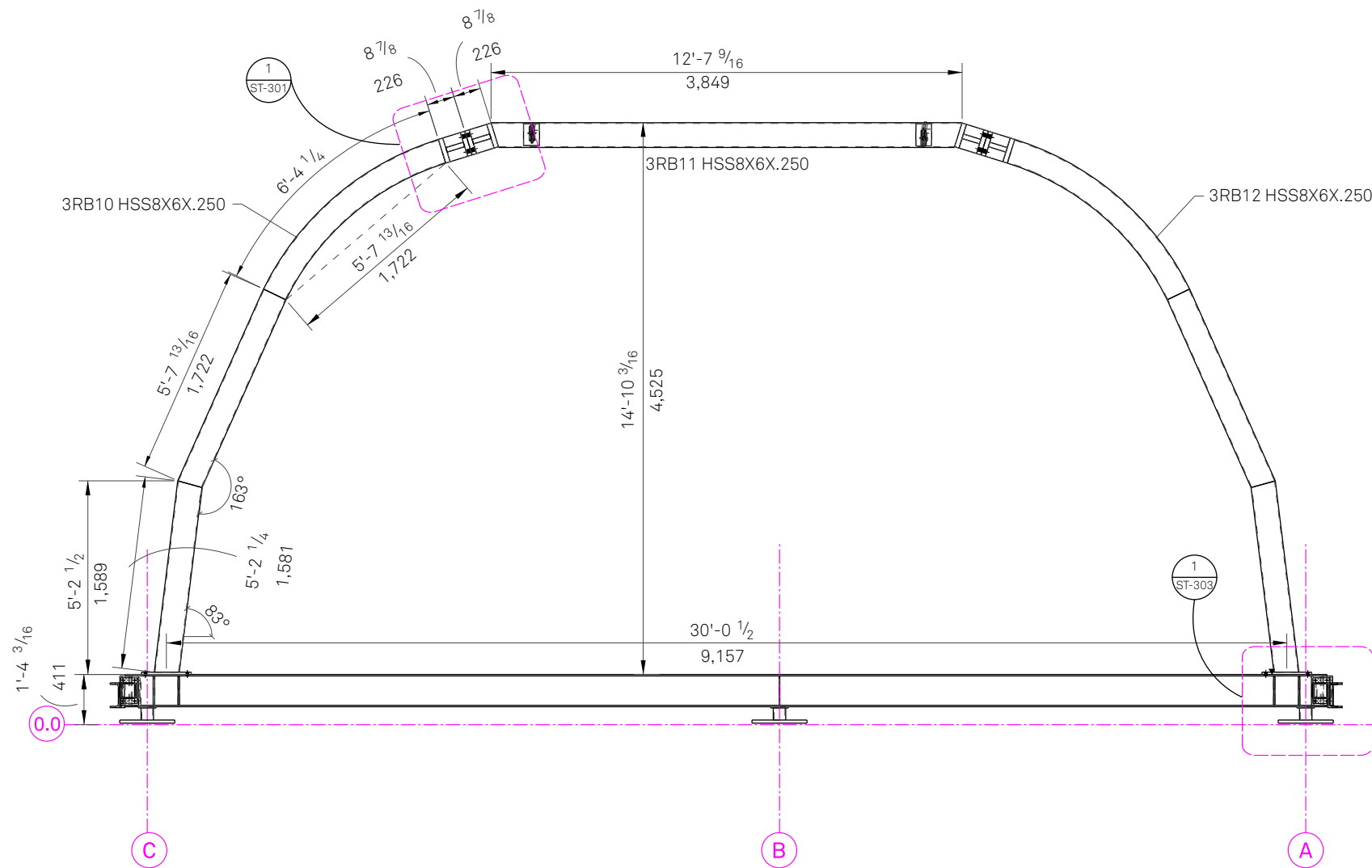
STATUS: Deliverable #7

DATE: 3 November, 2014

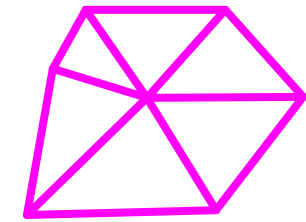
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ST-203



1 RIB 3 ELEVATION



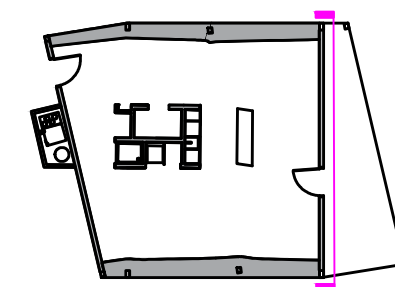
**TECHSTYLE
HAUS.**

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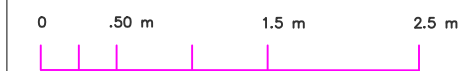
DRAWN BY: Rory Stevens

CHECKED BY: Jonathan Knowles

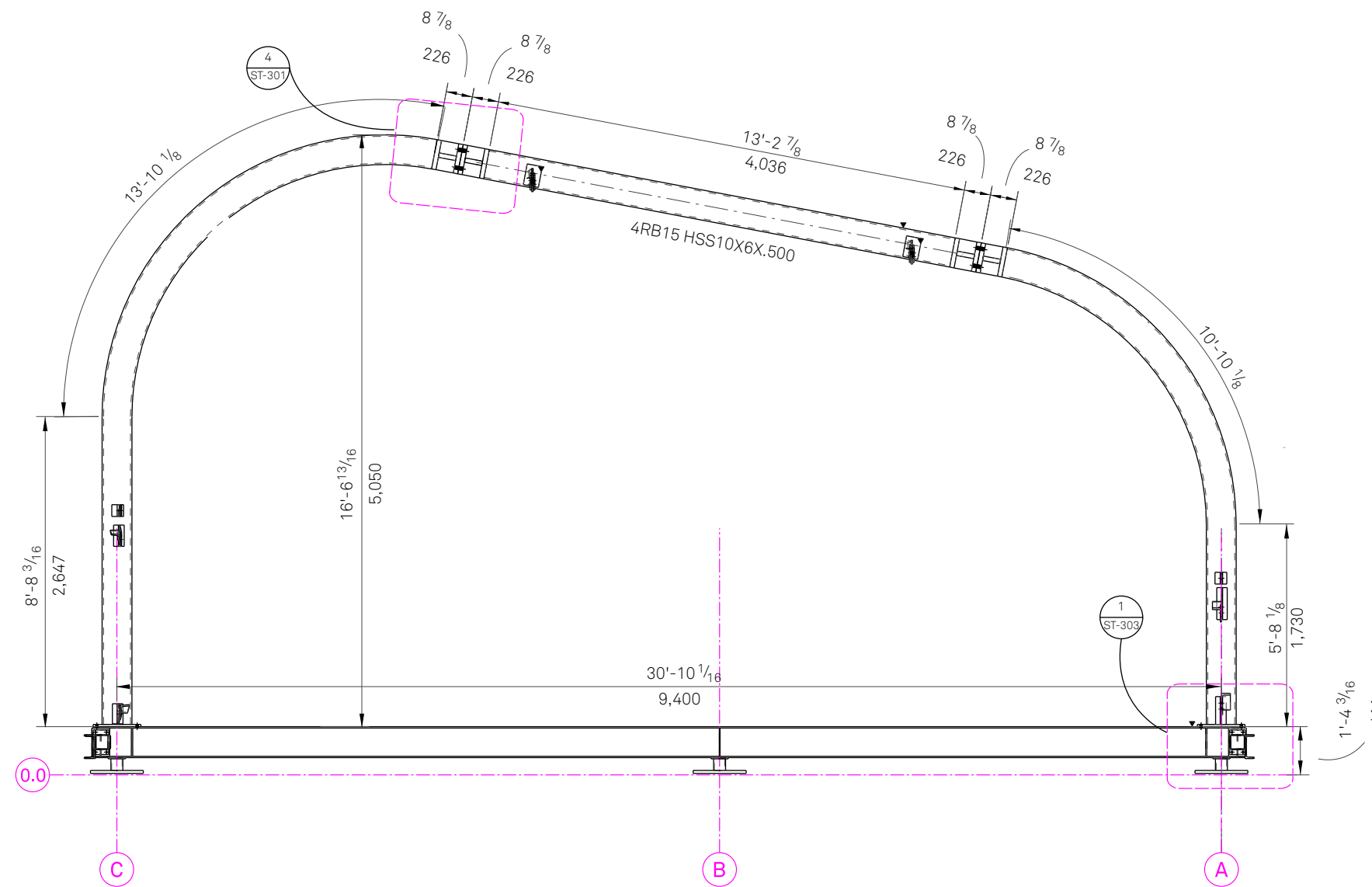
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DATE: 3 November, 2014

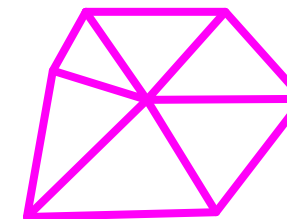
SCALE: 1:50



ST-204



1 RIB 4 ELEVATION



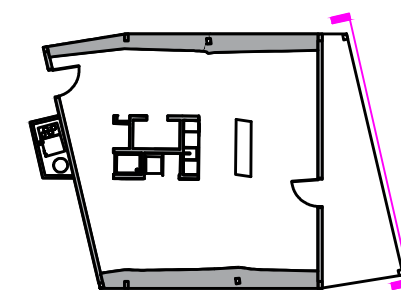
**TECHSTYLE
HAUS.**

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CHECKED BY: Jonathan Knowles

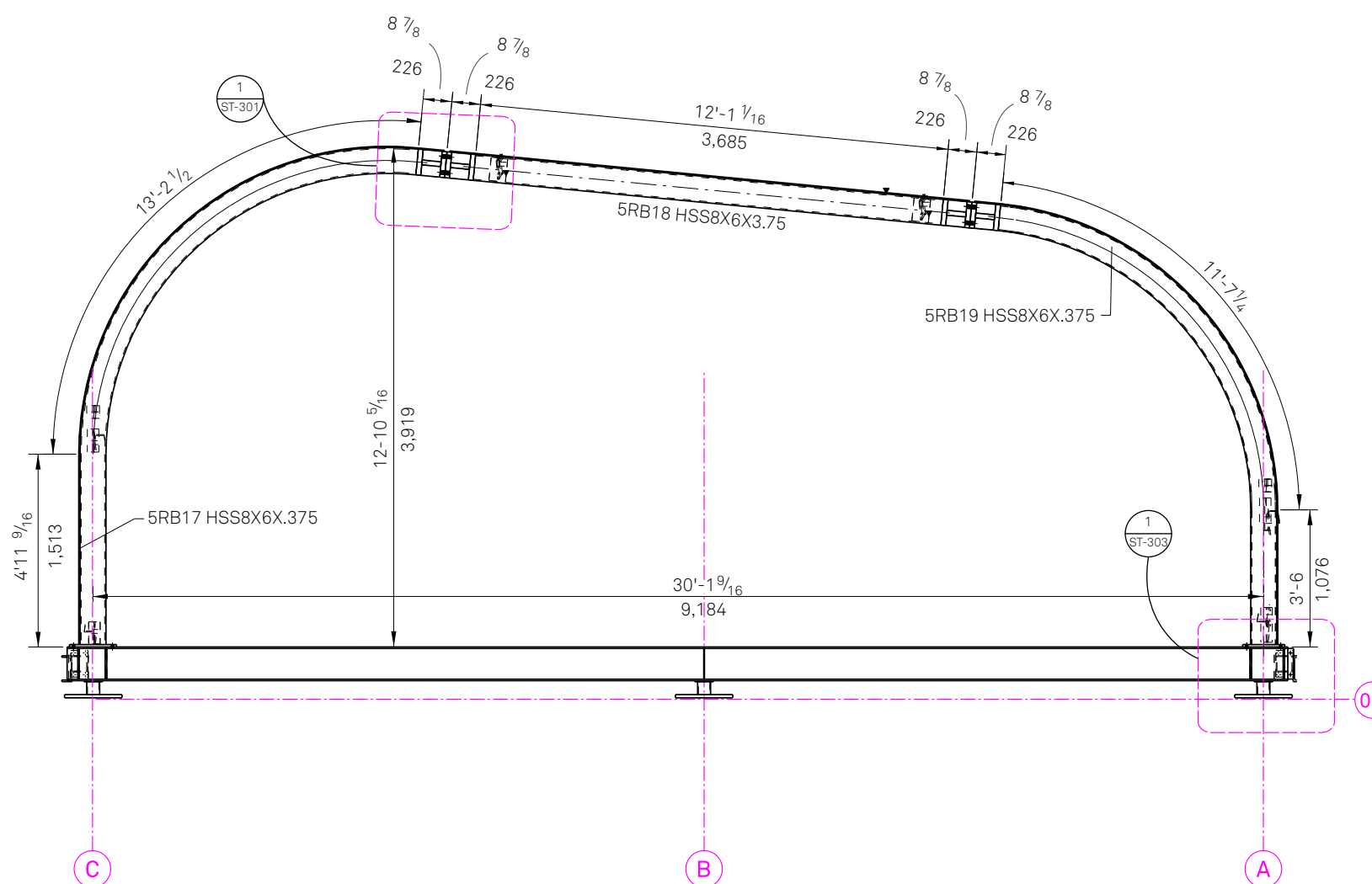
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DATE: 3 November, 2014

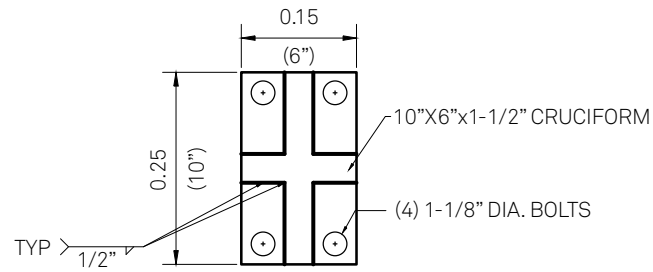
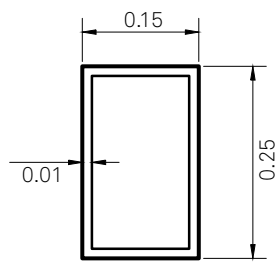
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ST-205



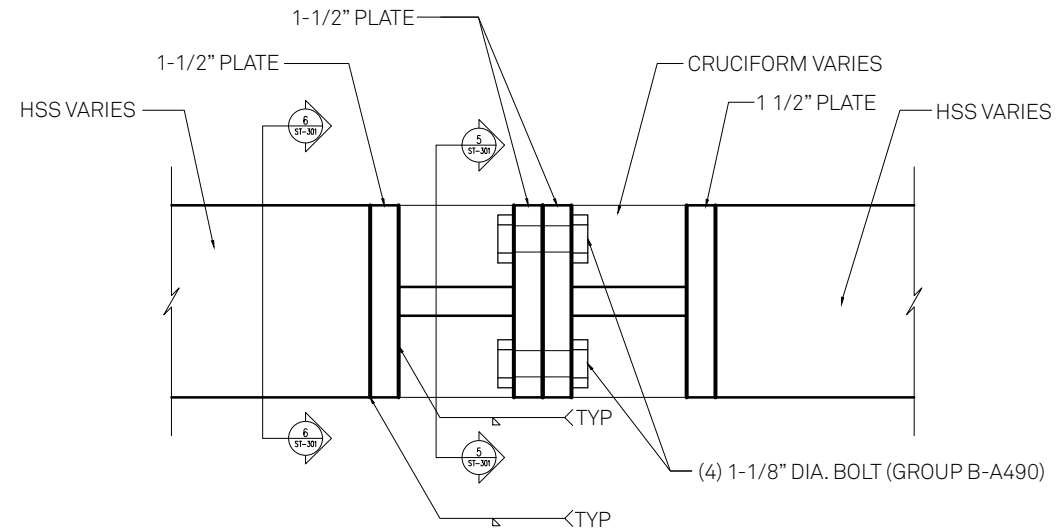
1 RIB 5 ELEVATION



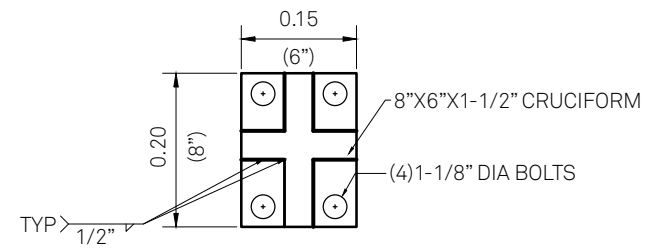
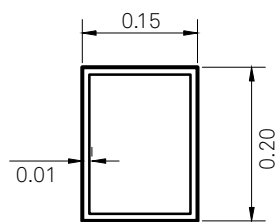
NOTE TO FABRICATOR: HSS WALLS MAY BE DISTORTED FROM ROLLING PROCESS. ENSURE END PLATES ARE AT LEAST MATCHING OUTER DIMENSIONS OF HSS

6 10" STEEL RIB

5 10" STEEL RIB SEAM PLATE



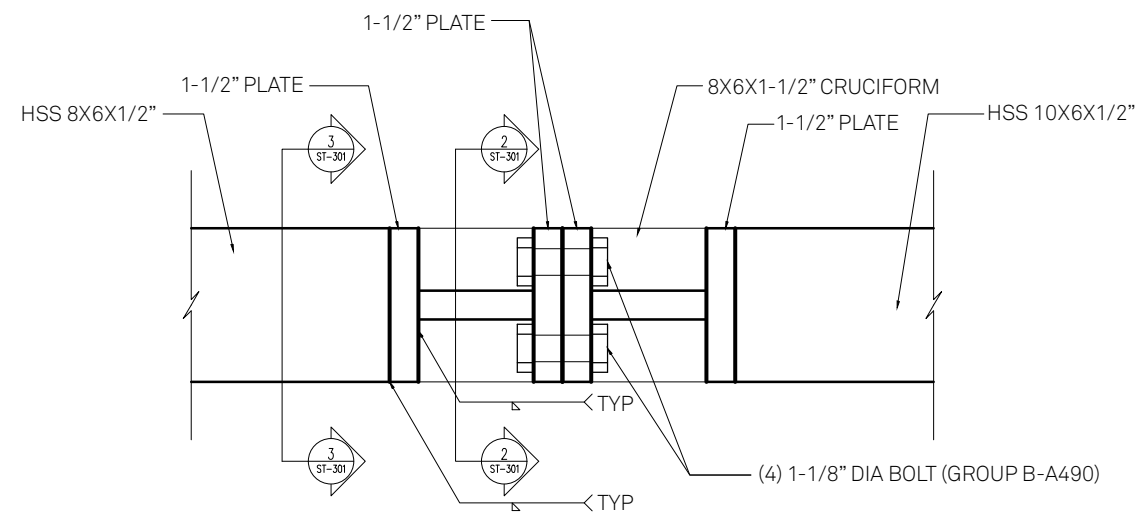
4 10" STEEL RIB STRUCTURAL SEAM



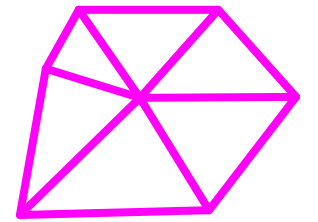
NOTE TO FABRICATOR: HSS WALLS MAY BE DISTORTED FROM ROLLING PROCESS. ENSURE END PLATES ARE AT LEAST MATCHING OUTER DIMENSIONS OF HSS

3 8" STEEL RIB

2 8" STEEL RIB SEAM PLATE



1 8" STEEL RIB STRUCTURAL SEAM



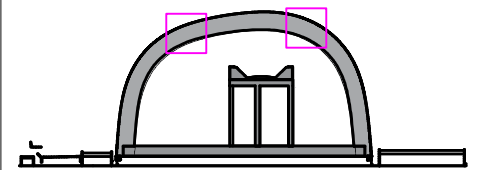
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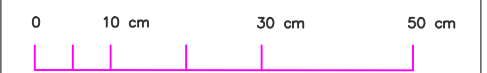
DRAWN BY: Rory Stevens

CHECKED BY: Jonathan Knowles

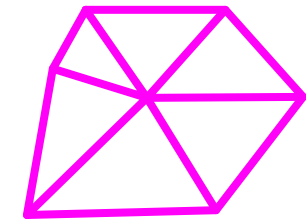
STATUS: Deliverable #7

DATE: 3 November, 2014

SCALE: 1:10



ST-301



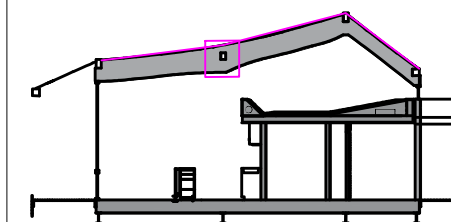
**TECHSTYLE
HAUS.**

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DRAWN BY: Rory Steveris

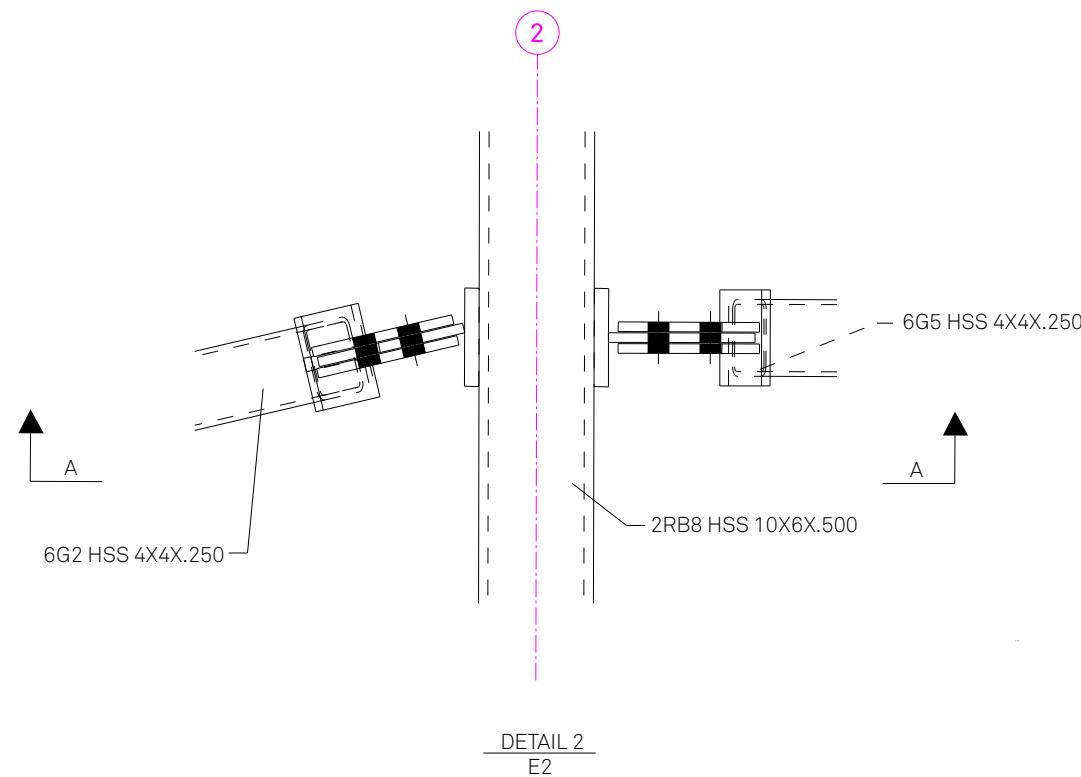
CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

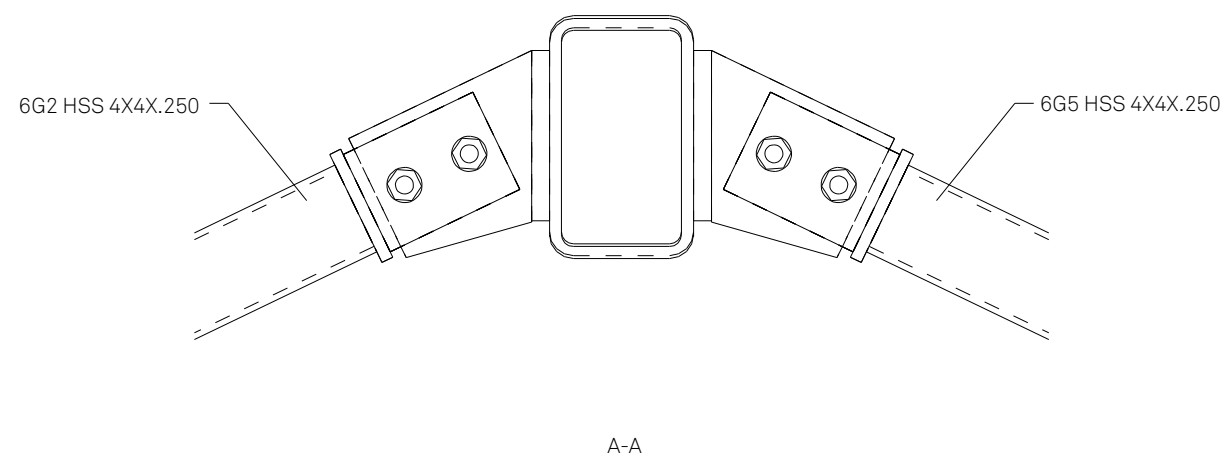
DATE: 3 November, 2014

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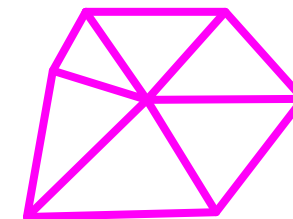
ST-302



2 STRUT CONNECTION DETAIL



1 STRUT CONNECTION DETAIL



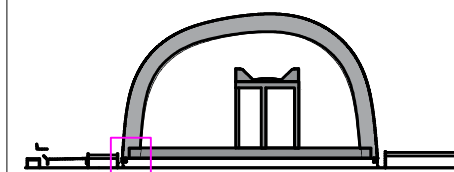
**TECHSTYLE
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DRAWN BY: Rory Stevens

CHECKED BY: Jonathan Knowles

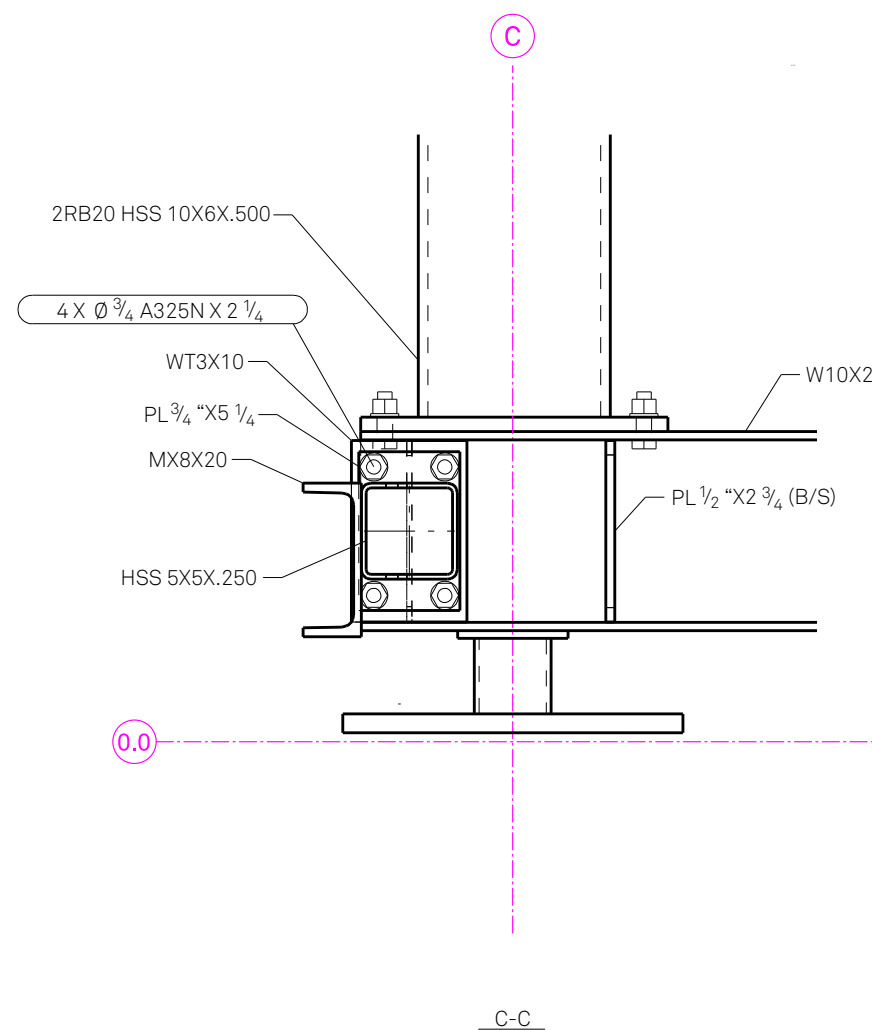
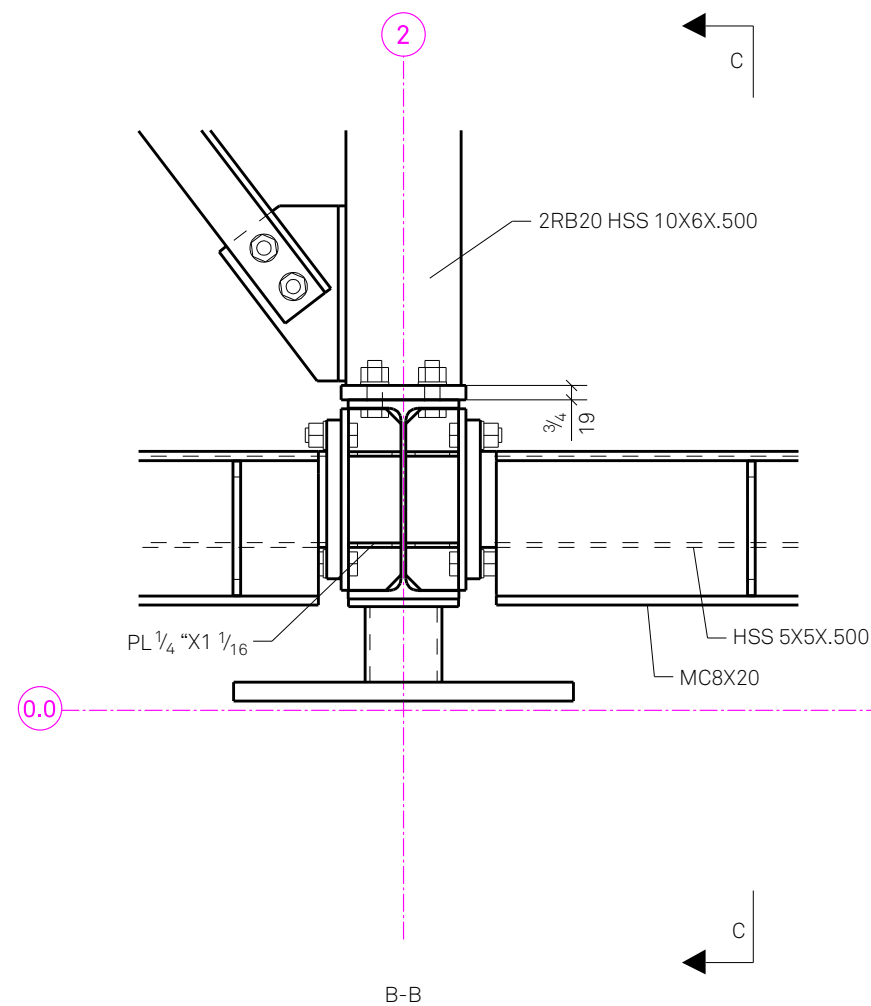
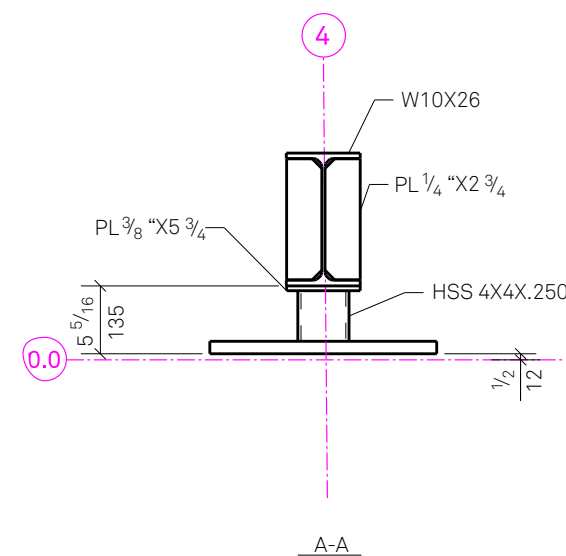
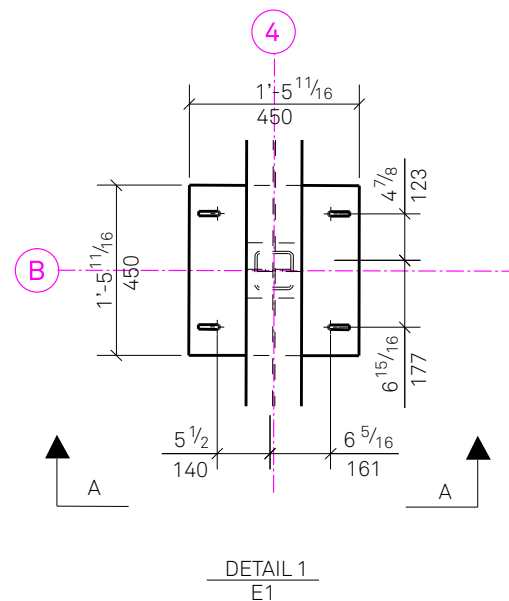
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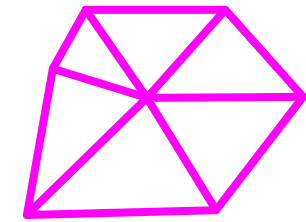
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ST-303



1 STEEL BRACING CONNECTION DETAILS



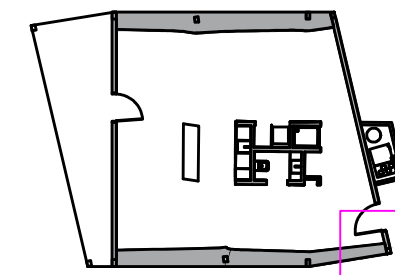
**TECHSTYLE
HAUS.**

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DRAWN BY: Rory Stevens

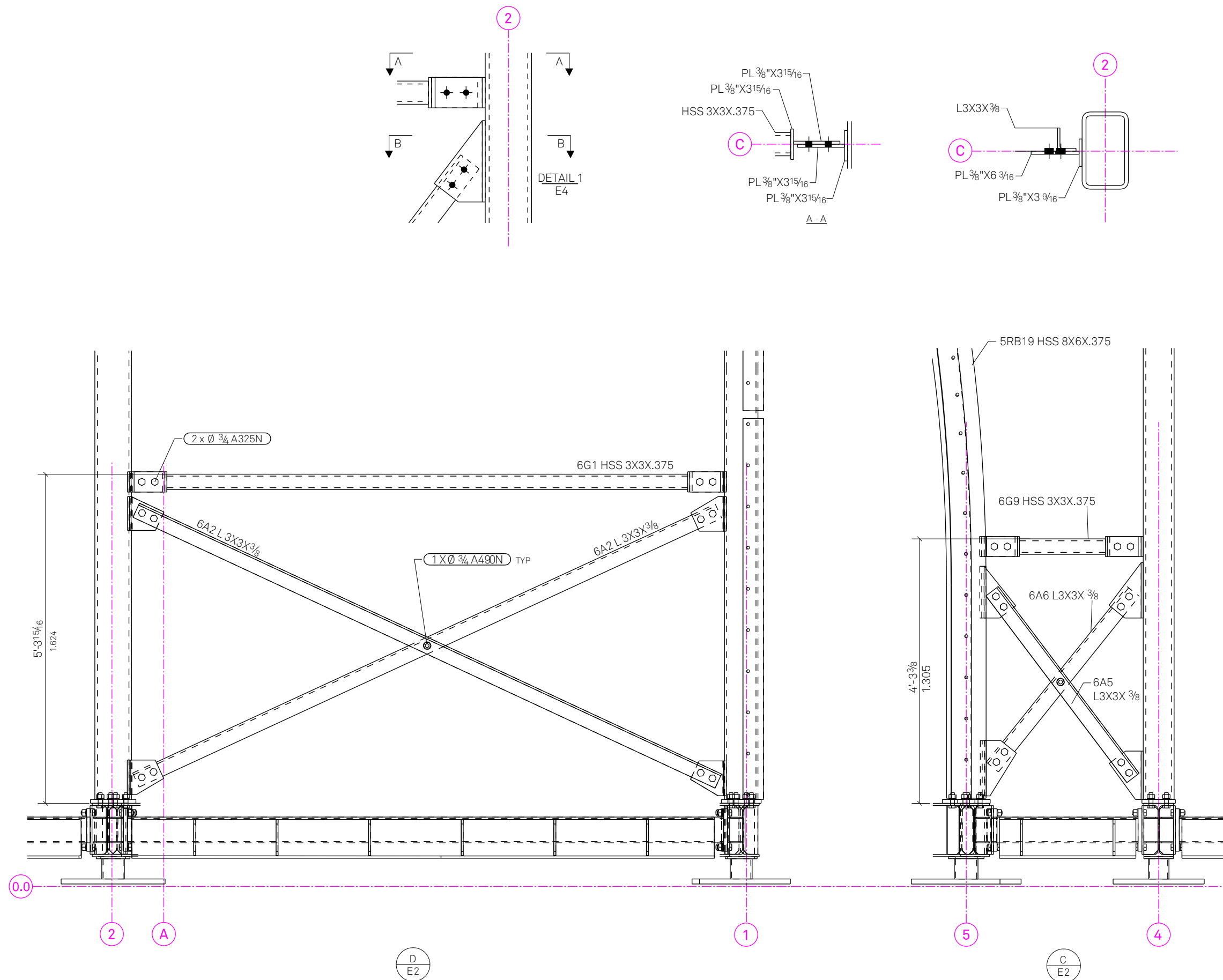
CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

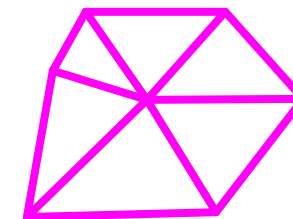
DATE: 3 November, 2014

SCALE: VARIED

ST-304



1 STEEL BRACING CONNECTION DETAILS



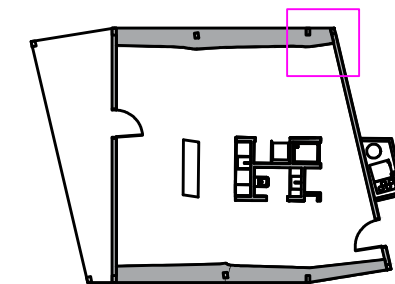
**TECHSTYLE
HAUS.**

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DRAWN BY: Rory Stevens

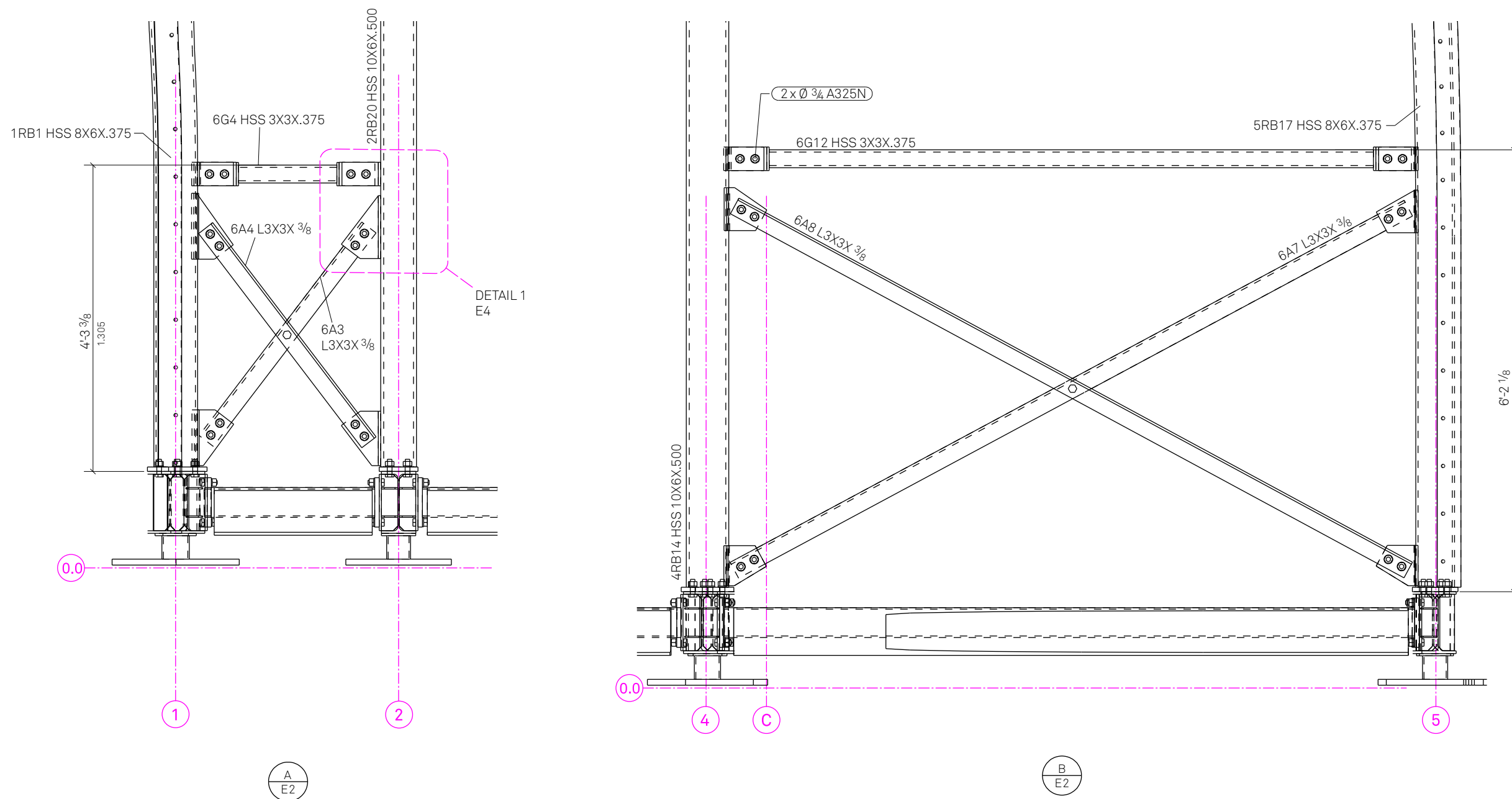
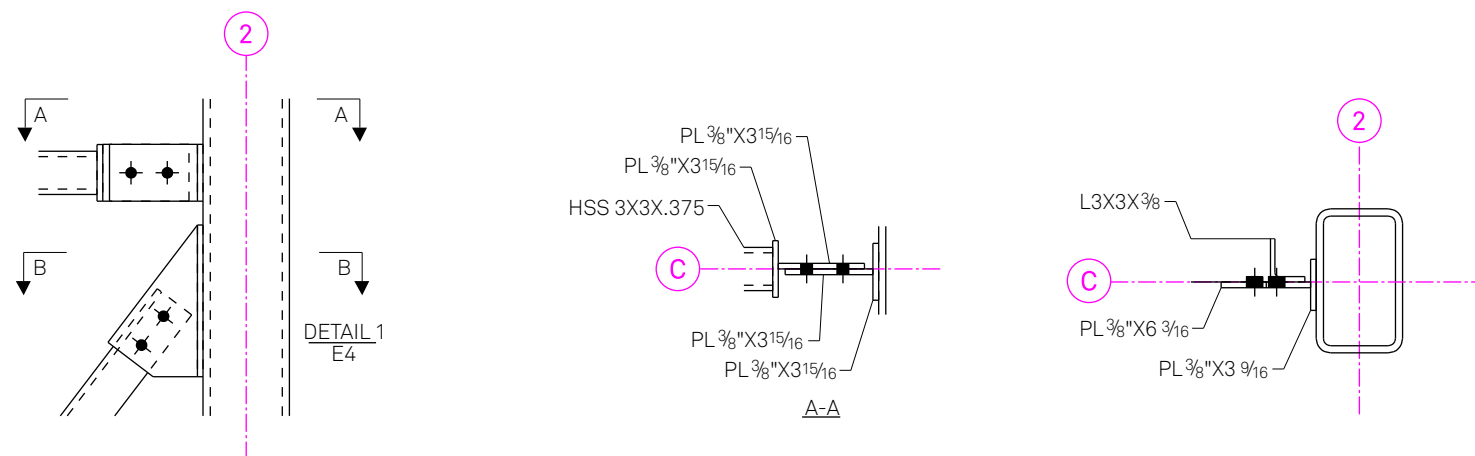
CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

DATE: 3 November, 2014

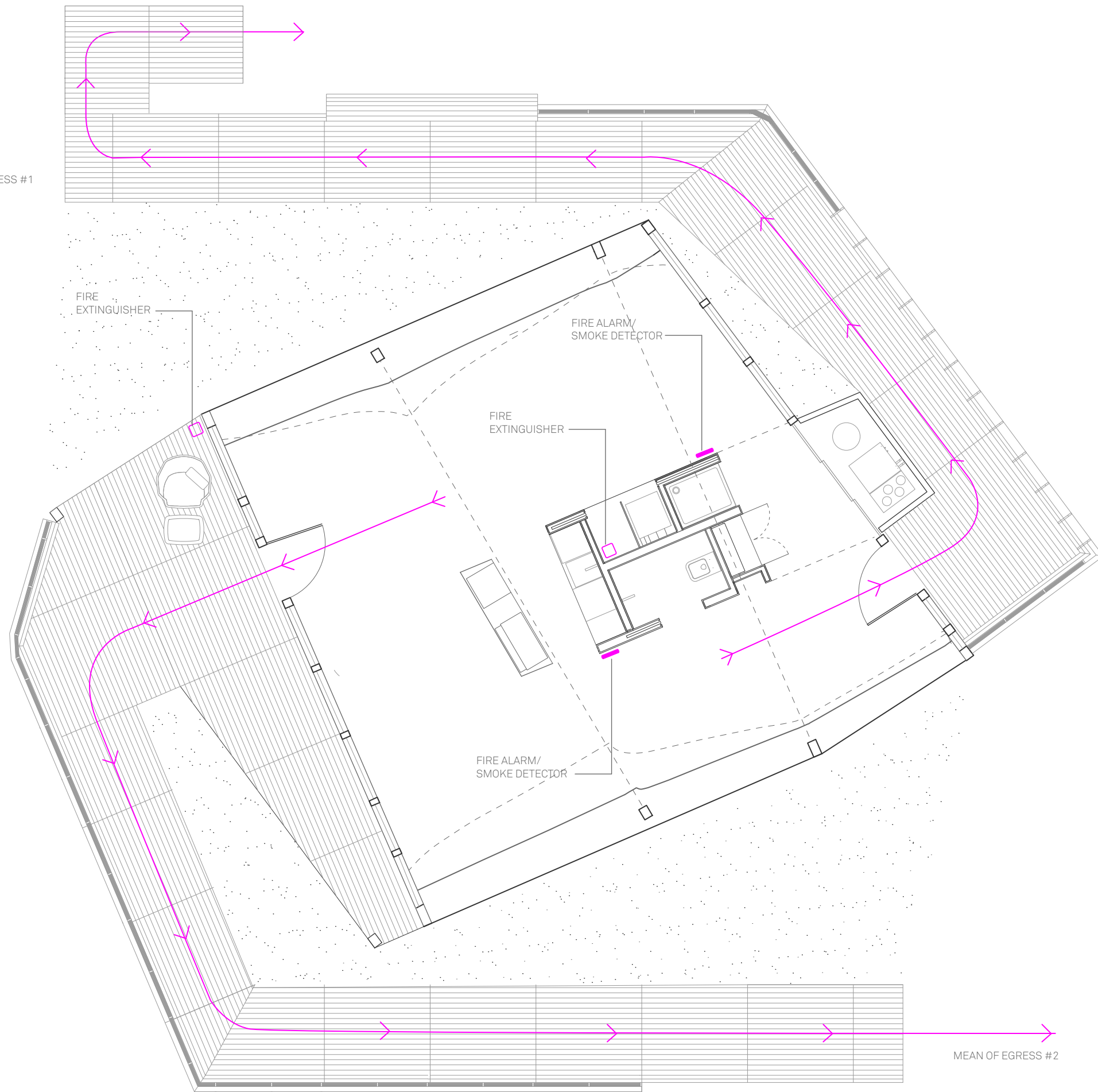
SCALE: VARIED

ST-305

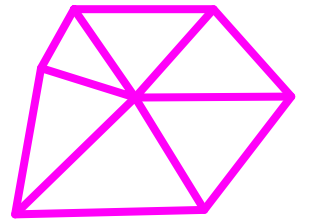


1 STEEL BRACING CONNECTION DETAILS

MEAN OF EGRESS #1



MEAN OF EGRESS #2



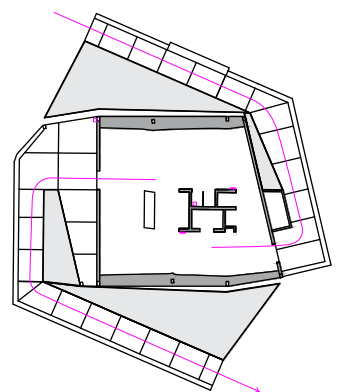
**TECHSTYLE
HAUS.**

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DRAWN BY: Marielle De Peña Mateo

CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

DATE: 3 November 2014

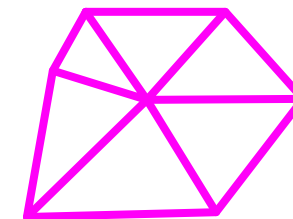
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0 .75cm 2.25cm 3.75cm



1 FIRE PROTECTION PLAN

FP-001



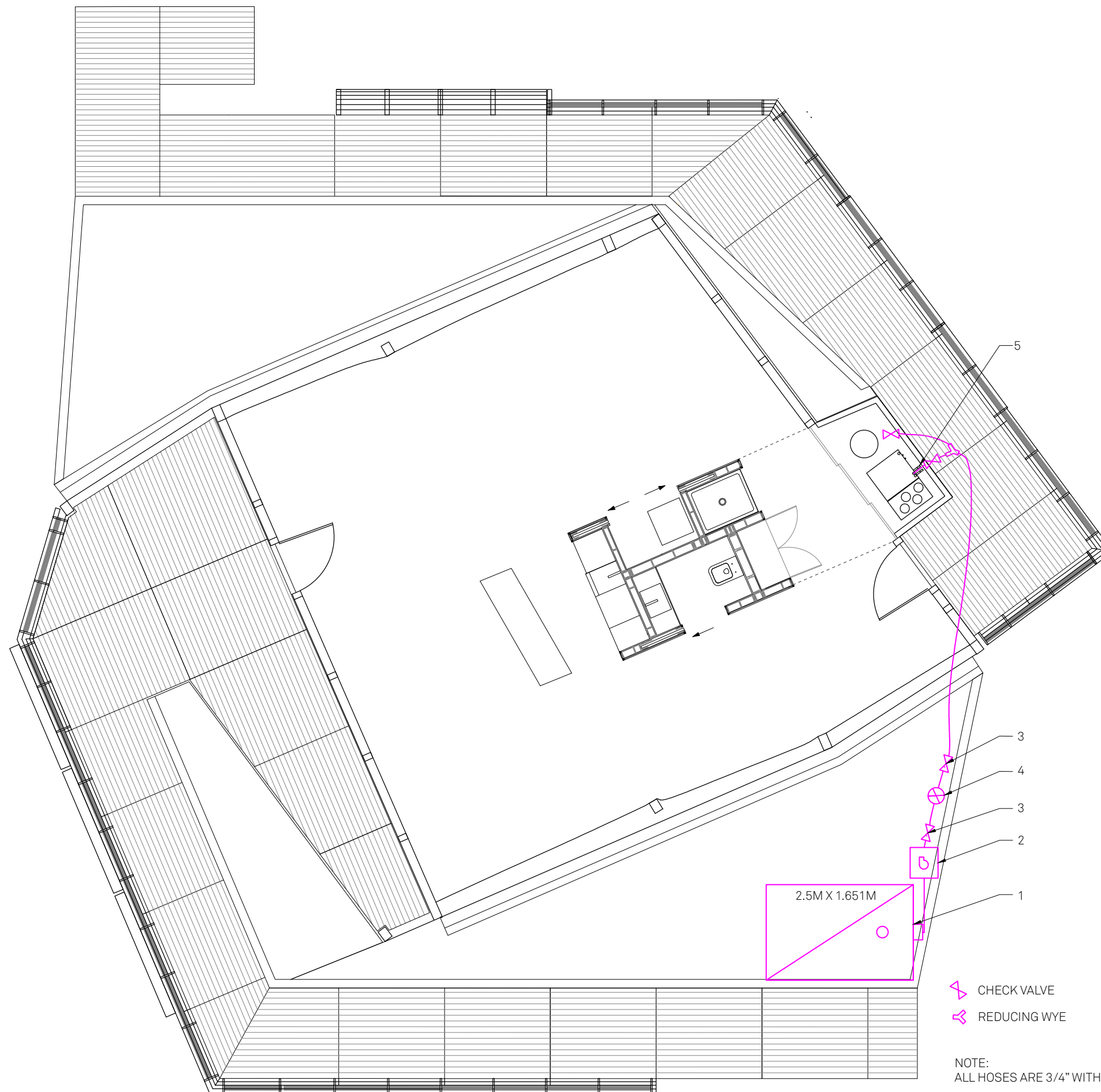
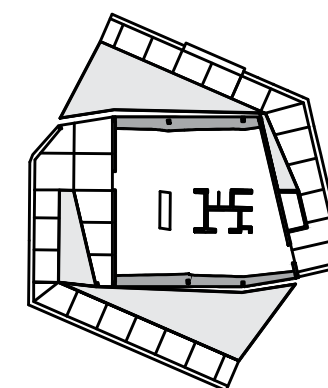
**TECHSTYLE
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-  CHECK VALVE
-  REDUCING WYE

NOTE:
ALL HOSES ARE 3/4" WITH 20X27 FEMALE THREADS

1. FRESH WATER TANK FOL-DA-TANK 1990L / 525GAL, 4" FILLING OPENING
2. FRESH WATER PUMP WITH 19L EXPANSION TANK
3. FRESH WATER SHUTOFF BALL VALVE
4. WATER METER- AQUADIS WITH 15MM NOMINAL DIAMETER
5. VITOCAL COLD WATER LIKNE CONNECTION 3/4" NOMINAL DIAMETER

1 PLUMBING SUPPLY PLAN

STAMP

DRAWN BY: Helen Bergstrom

CHECKED BY: Jonathan Knowles

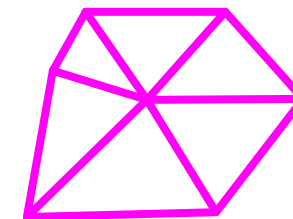
STATUS: Deliverable #7

DATE: 3 November, 2014

SCALE: 1:75



PL-001



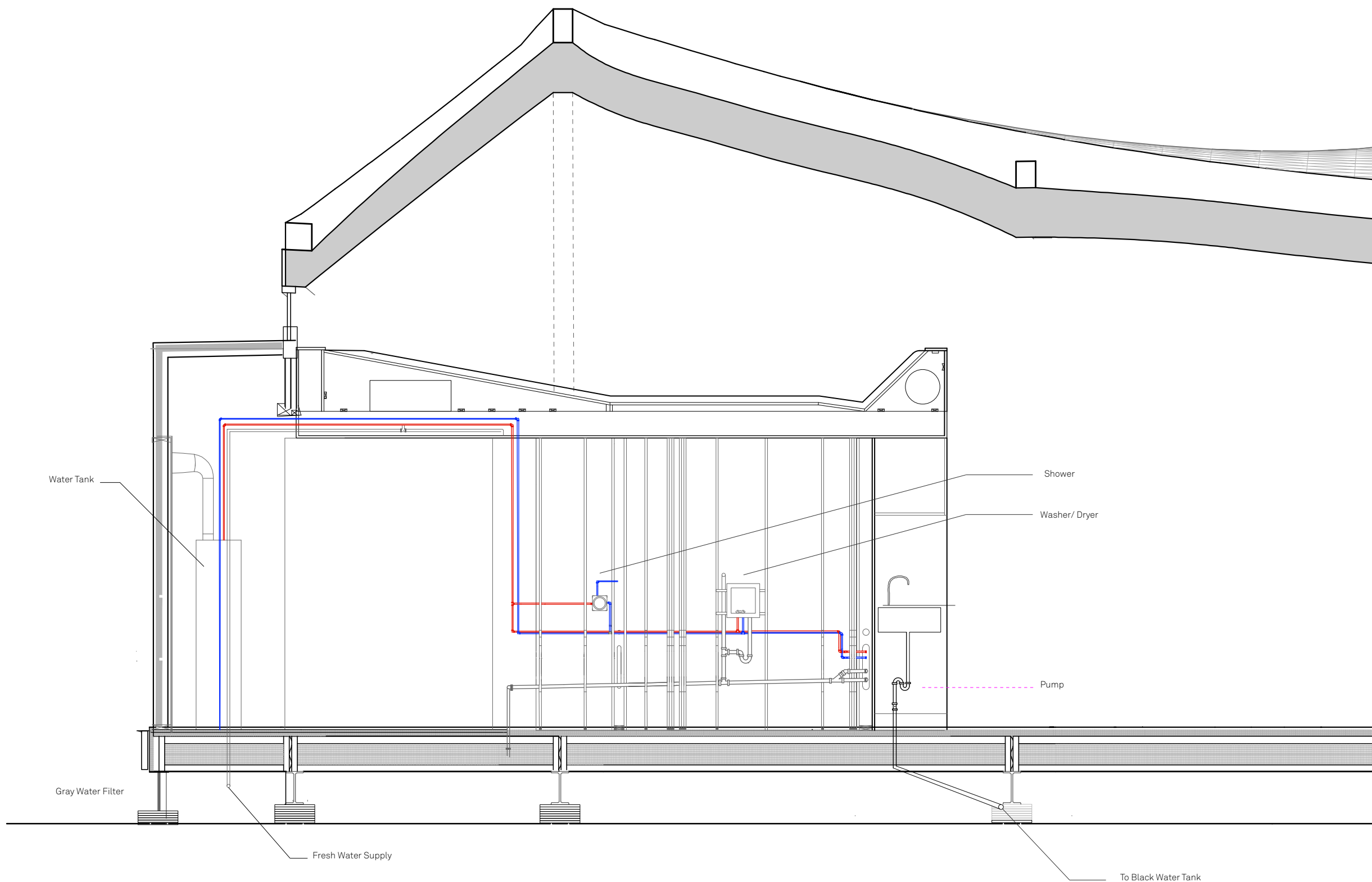
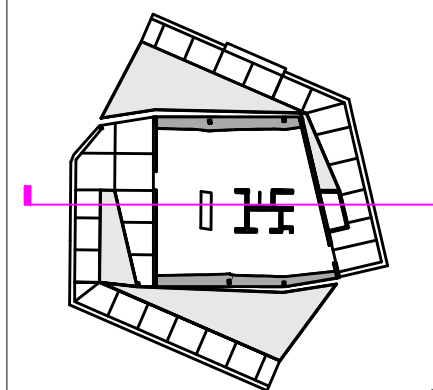
**TECHSTYLE
HAUS.**

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1 SUPPLY AND RETURN LONGITUDINAL SECTION

Notes: Supply Pipes
3/4" PEX

Return Pipes
2" PVC
1/4"-1" Slope

STAMP

DRAWN BY: Dorian Junczewicz

CHECKED BY: Jonathan Knowles

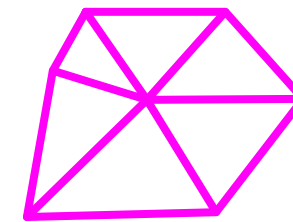
STATUS: Deliverable #7

DATE: 3 November, 2014

SCALE: 1:25



PL-002



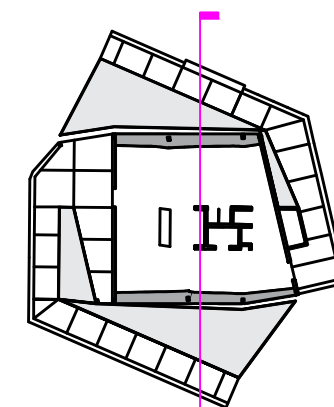
**TECHSTYLE
HAUS.**

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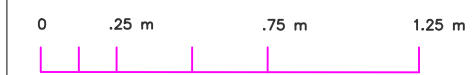
DRAWN BY: Dorian Junciewicz

CHECKED BY: Jonathan Knowles

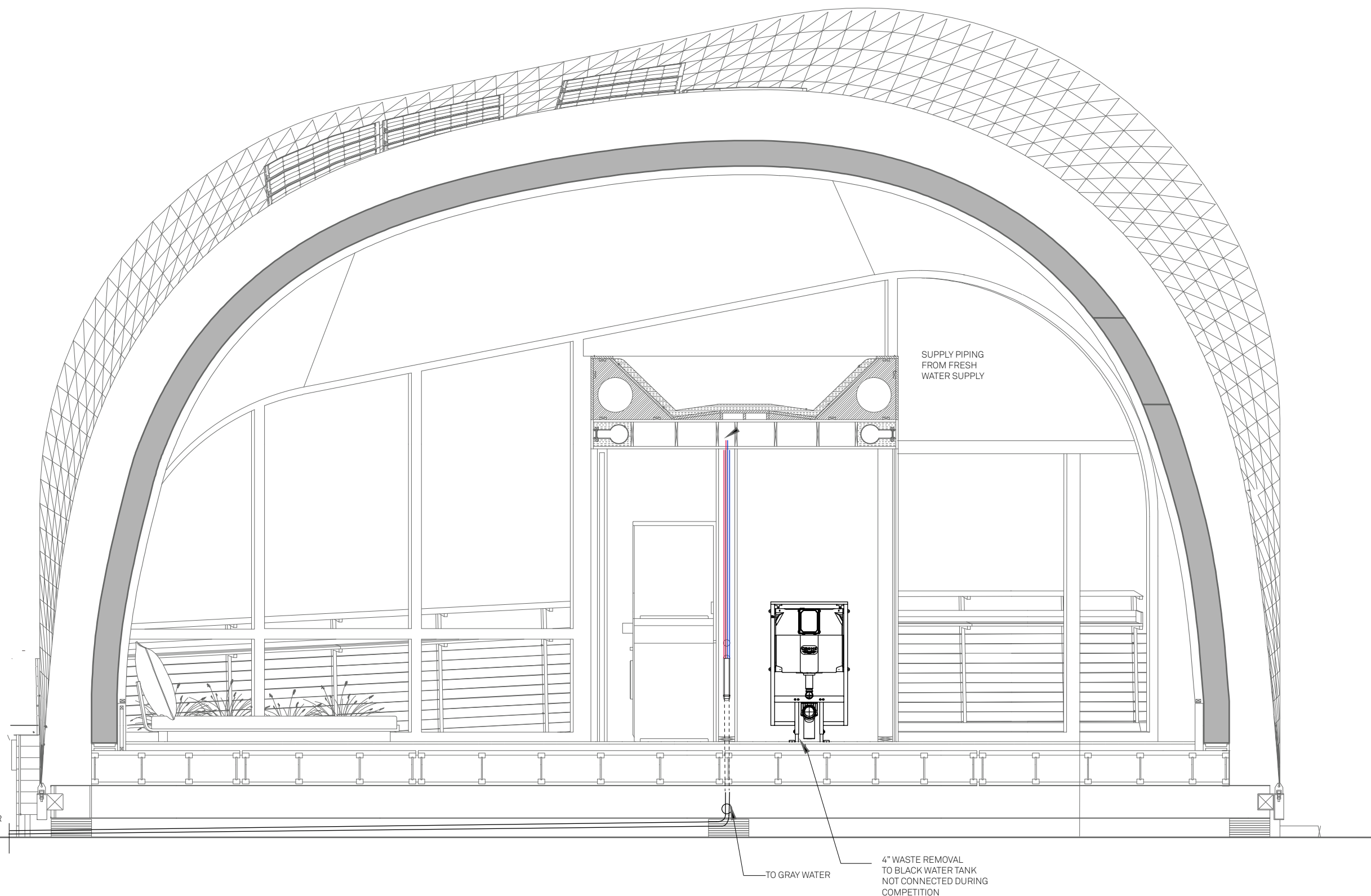
STATUS: Deliverable #7

DATE: 3 November, 2014

SCALE: 1:25



PL-003

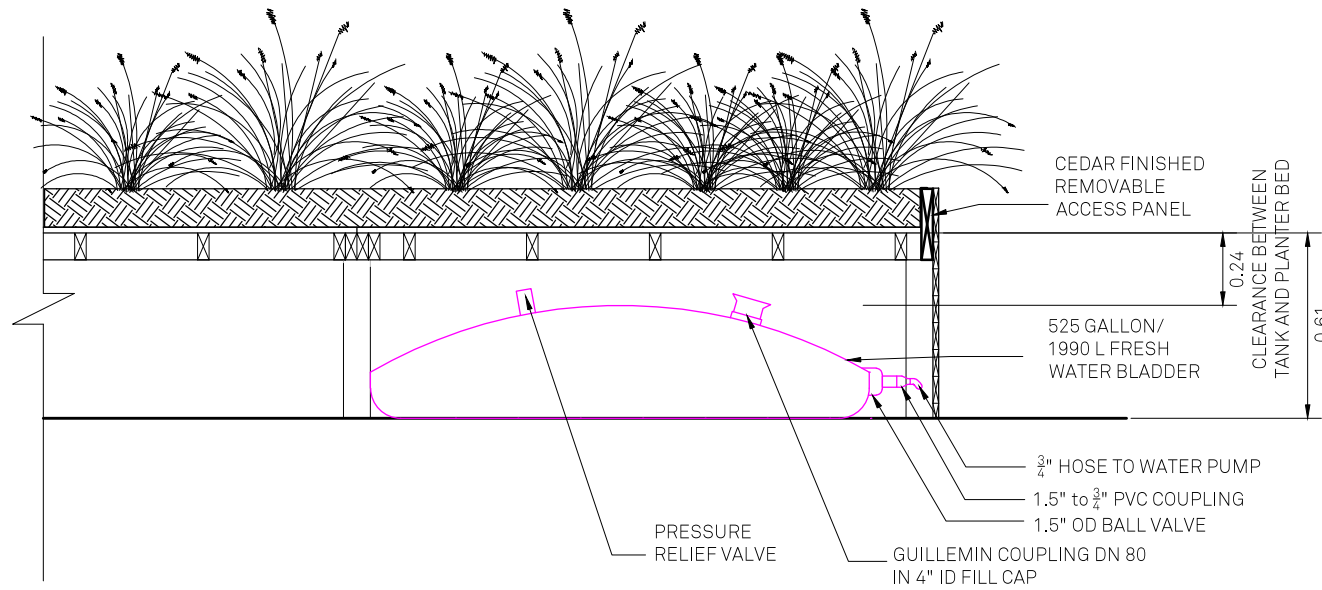


1 SUPPLY AND RETURN TRANSVERSE SECTION

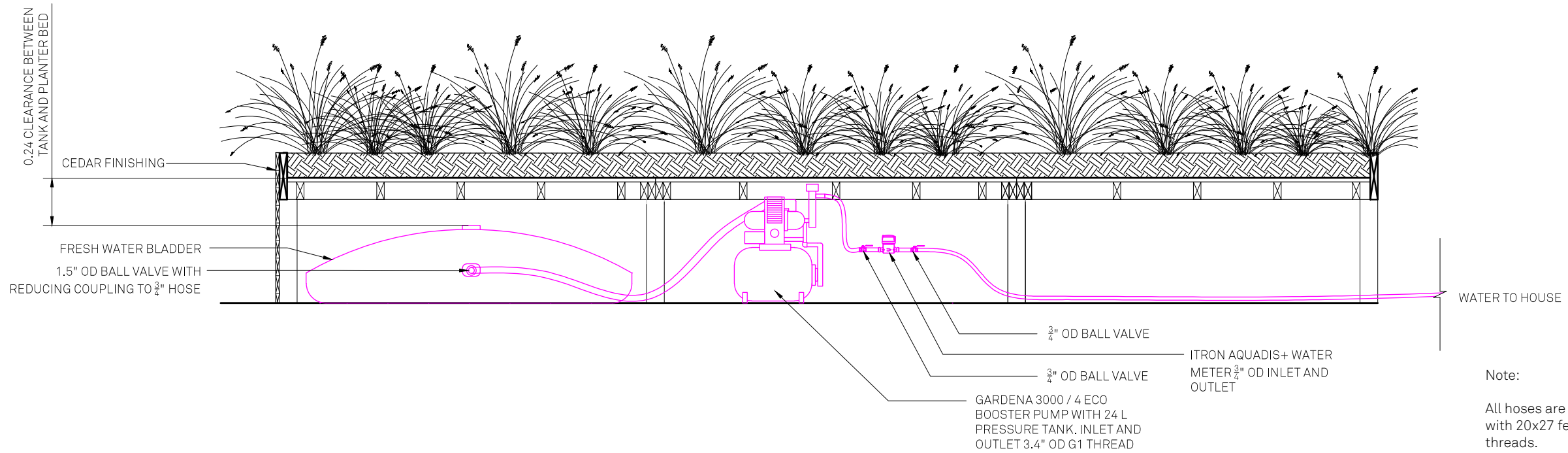
TO BLACK WATER
BLADDER

TO GRAY WATER

4" WASTE REMOVAL
TO BLACK WATER TANK
NOT CONNECTED DURING
COMPETITION

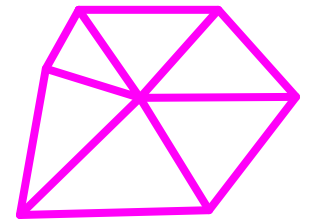


1 FRESH WATER STORAGE SECTION



2 FRESH WATER PUMP SECTION

Note:
All hoses are 3/4" with 20x27 female threads.



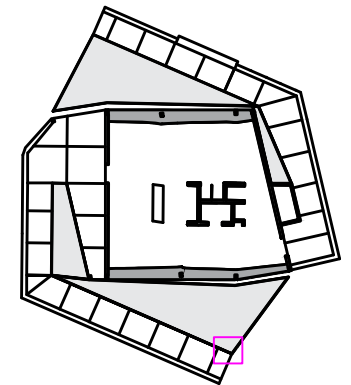
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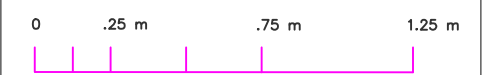
DRAWN BY: Helen Bergstrom

CHECKED BY: Jonathan Knowles

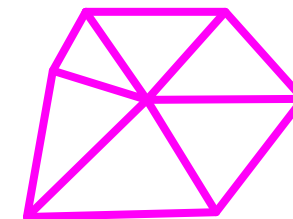
STATUS: Deliverable #7

DATE: 3 November, 2014

SCALE: 1:25



PL-004



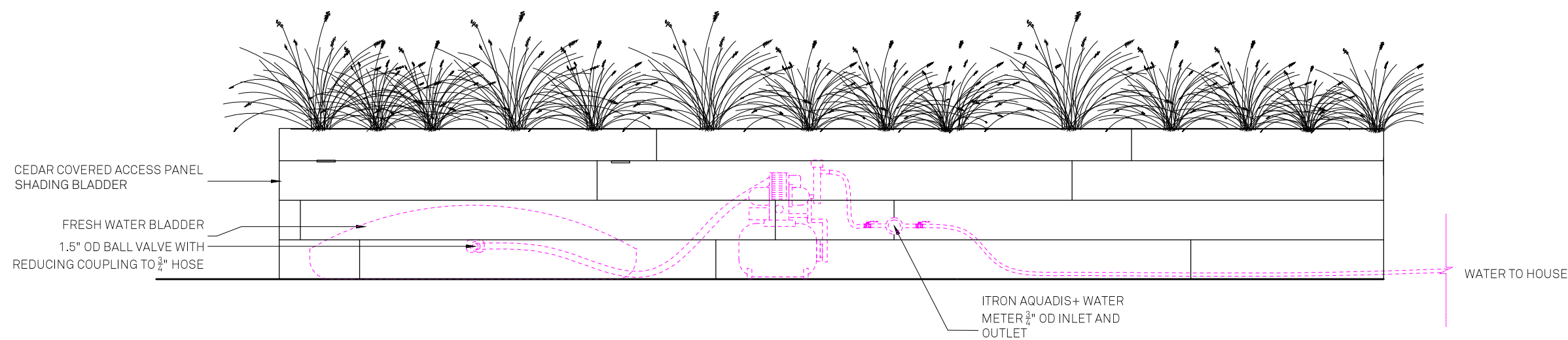
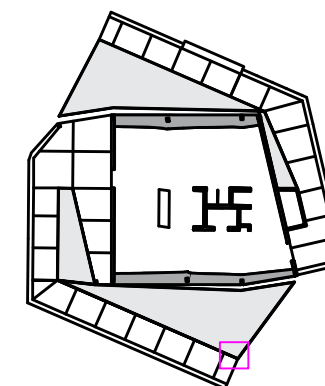
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Note:
All hoses are 3/4"
with 20x27 female
threads.

1 FRESH WATER PUMP ELEVATION

STAMP

DRAWN BY: Helen Bergstrom

CHECKED BY: Jonathan Knowles

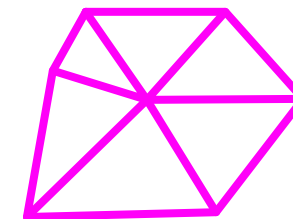
STATUS: Deliverable #7

DATE: 3 November, 2014

SCALE: 1:25



PL-005



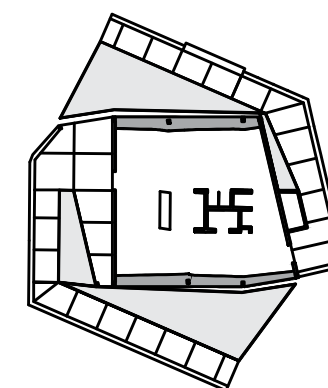
**TECHSTYLE
HAUS.**

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BROWN UNIVERSITY
75 Waterman Street
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FACHHOCHSCHULE ERFURT
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**RHODE ISLAND SCHOOL
OF DESIGN**
2 College Street
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United States
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STAMP

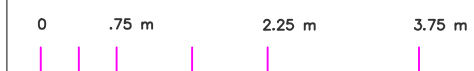
DRAWN BY: Helen Bergstrom

CHECKED BY: Jonathan Knowles

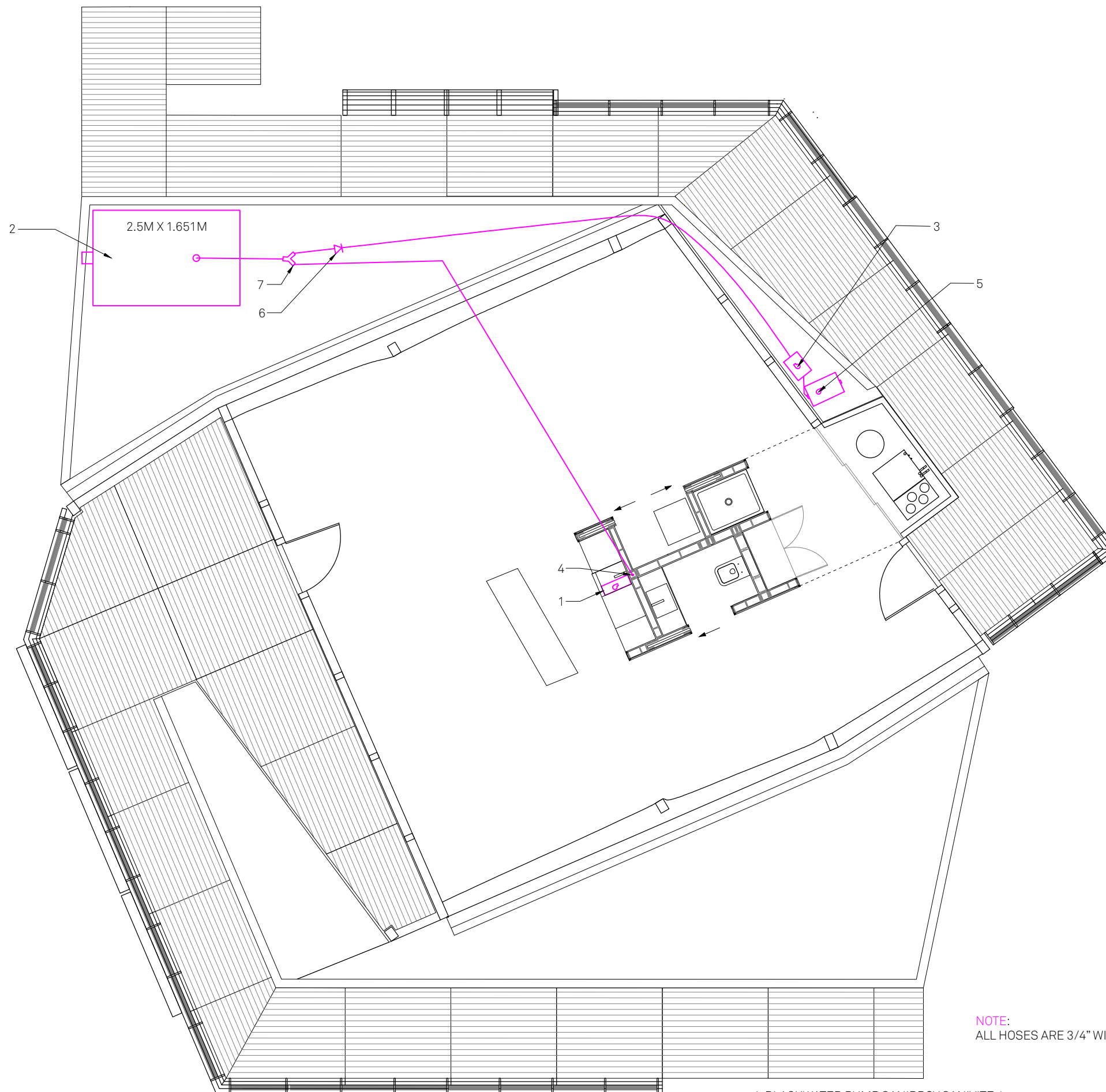
STATUS: Deliverable #7

DATE: 3 November, 2014

SCALE: 1:75



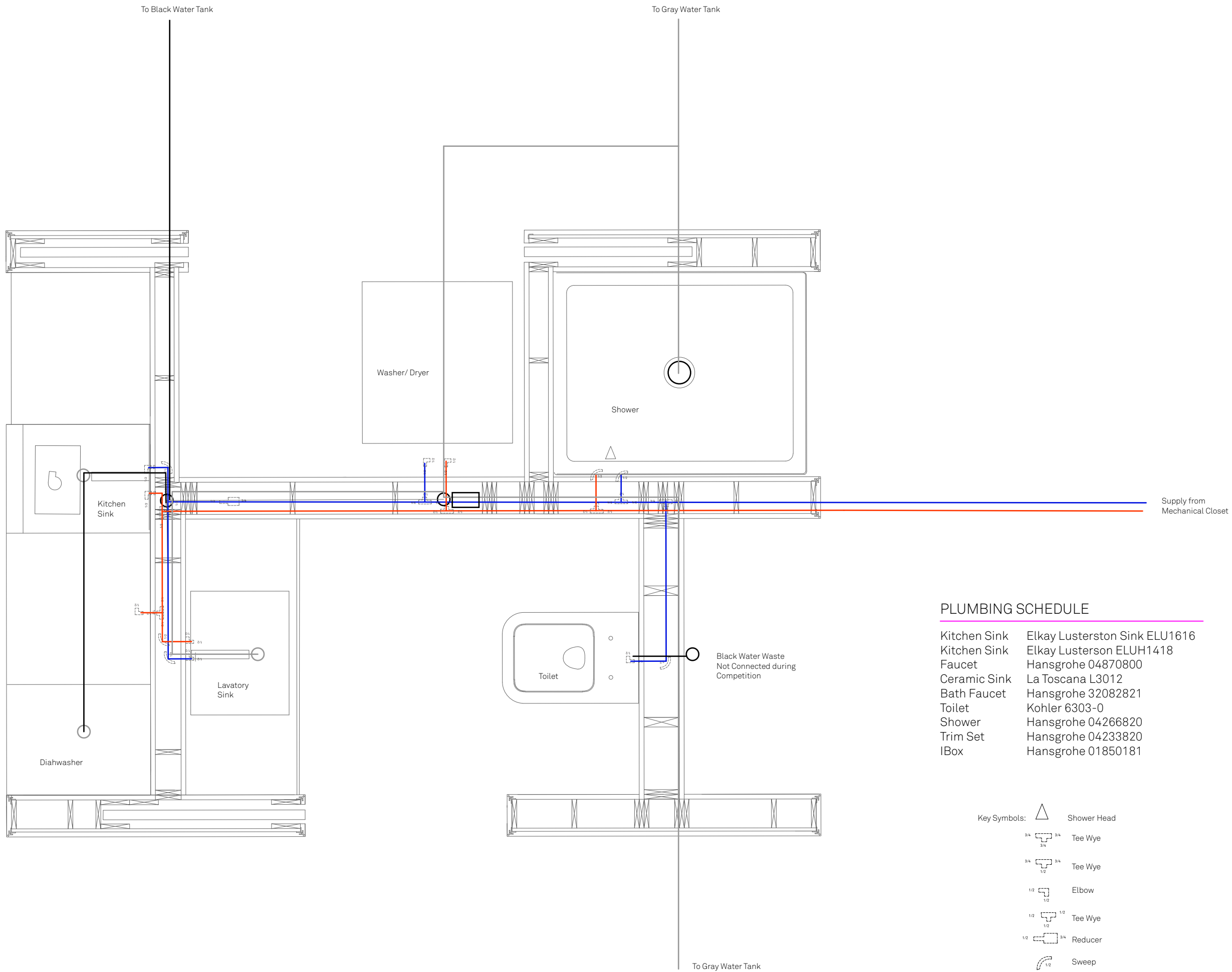
PL-021



NOTE:
ALL HOSES ARE 3/4" WITH 20X27 FEMALE THREADS

- 1. BLACKWATER PUMP SANIBROY SANIVITE 4
- 2. BLACKWATER TANK FOL-DA-TANK 1990L / 525GAL
- 3. GREYWATER OVERFLOW PUMP TANK GARDENA CLASSIC 6000
- 4. BLACKWATER DRAIN EXIT THROUGH FLOOR PALLET WITH GASKET
- 5. AQUA2USE GREYWATER FILTER AND PUMP BLACK WATER ALL PIPES ID 2", 1/4" to 1' SLOPE
- 6. CHECK VALVE
- 7. REDUCING WYE

1 BLACK WATER PLAN



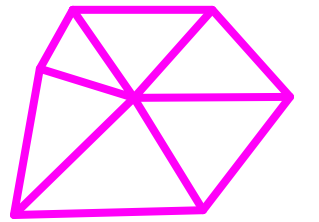
1 PLUMBING DETAIL

PLUMBING SCHEDULE

Kitchen Sink	Elkay Lusterston Sink ELU1616
Kitchen Sink	Elkay Lusterson ELUH1418
Faucet	Hansgrohe 04870800
Ceramic Sink	La Toscana L3012
Bath Faucet	Hansgrohe 32082821
Toilet	Kohler 6303-0
Shower	Hansgrohe 04266820
Trim Set	Hansgrohe 04233820
IBox	Hansgrohe 01850181

Key Symbols:

	Shower Head
	Tee Wye
	Tee Wye
	Elbow
	Tee Wye
	Reducer
	Sweep
	Pump
	Drain



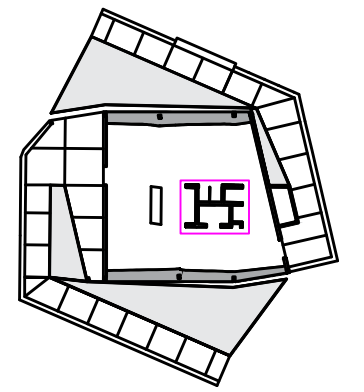
**TECHSTYLE
HAUS.**

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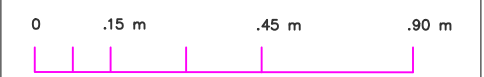
DRAWN BY: Helen Bergstrom

CHECKED BY: Jonathan Knowles

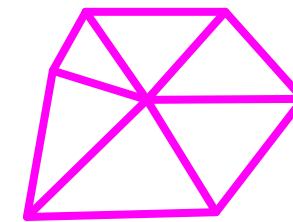
STATUS: Deliverable #7

DATE: 3 November, 2014

SCALE: 1:15



PL-022



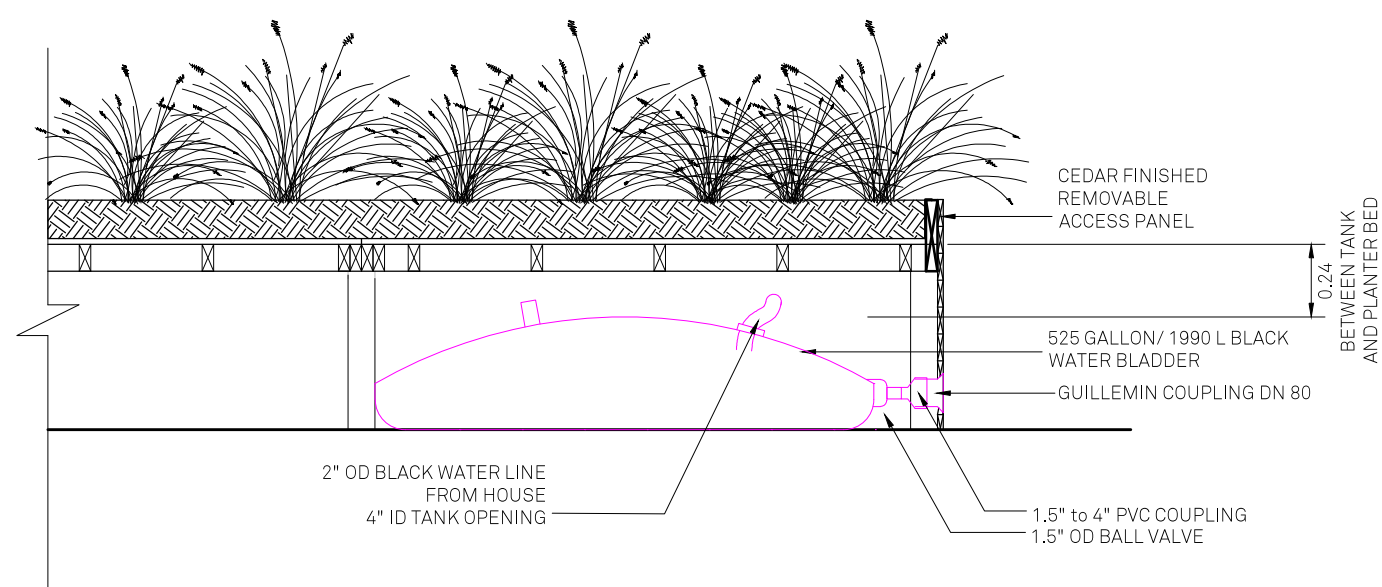
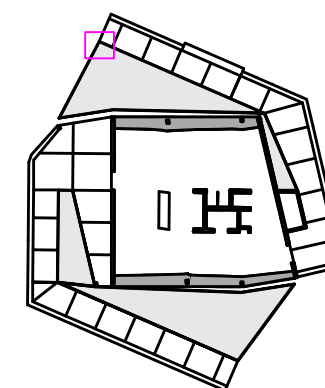
**TECHSTYLE
HAUS.**

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1 BLACK WATER STORAGE SECTION

Note:

All hoses are 3/4"
with 20x27 female
threads.

STAMP

DRAWN BY: Helen Bergstrom

CHECKED BY: Jonathan Knowles

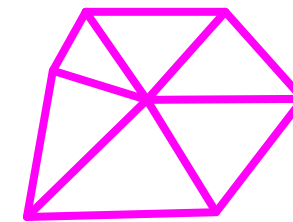
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DATE: 3 November, 2014

SCALE: 1:25



PL-023



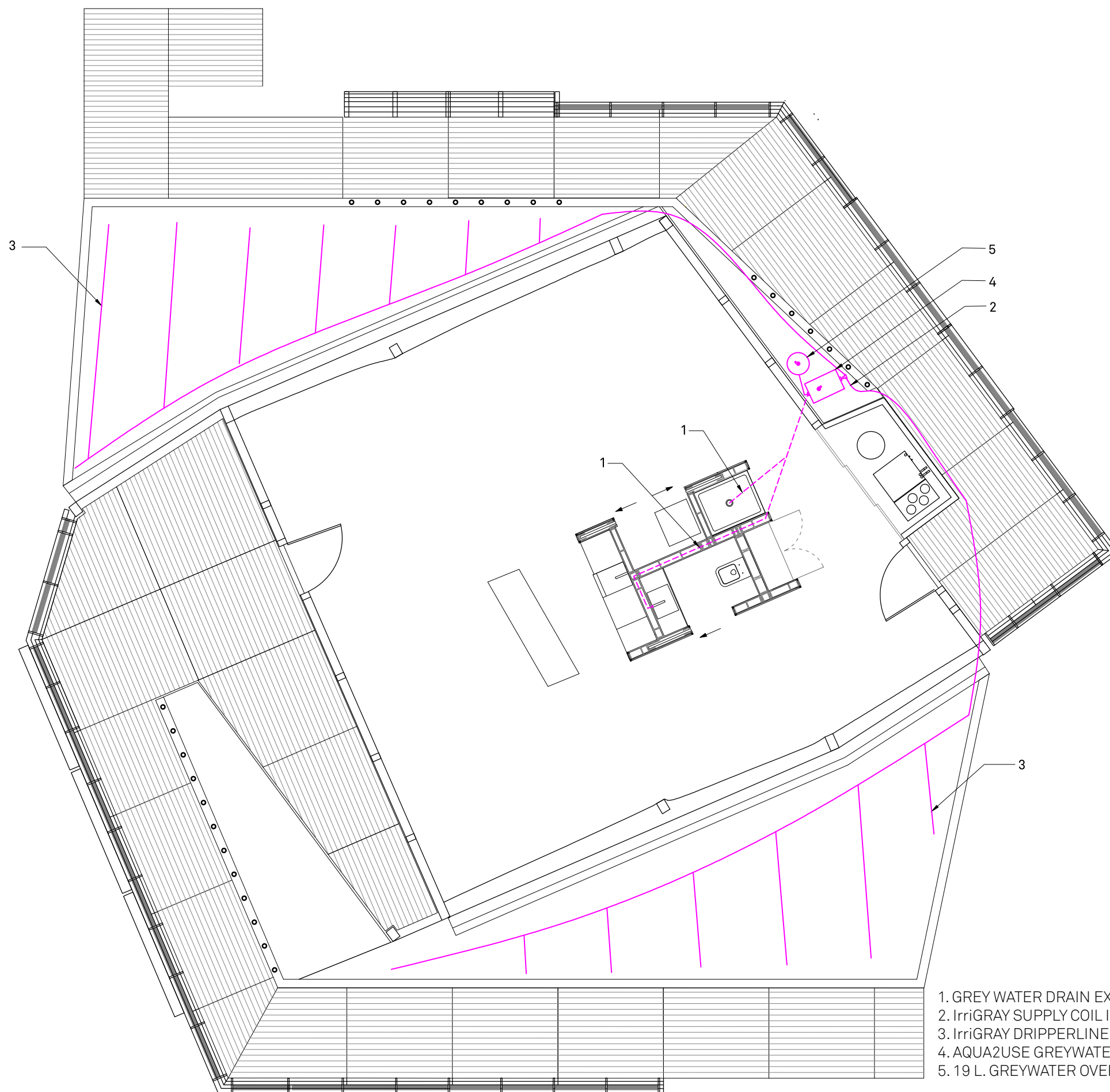
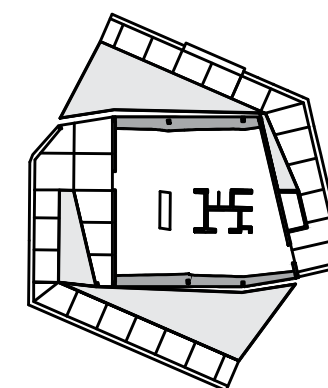
**TECHSTYLE
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1. GREY WATER DRAIN EXIT THROUGH FLOOR PALLET WITH GASKET
2. IrriGRAY SUPPLY COIL ID 3/4" GREY WATER DISTRIBUTION HOSE
3. IrriGRAY DRIPPERLINE COIL ID 3/4" PERFORATED DRIP IRRIGATION HOSE
4. AQUA2USE GREY WATER FILTER AND PUMP
5. 19 L. GREY WATER OVERFLOW TANK W/TECNOMA 3 IN 1 SUMP PUMP

1 GRAY WATER PLAN

STAMP

DRAWN BY: Helen Bergstrom

CHECKED BY: Jonathan Knowles

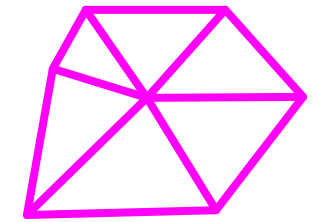
STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: 1:75



PL-031



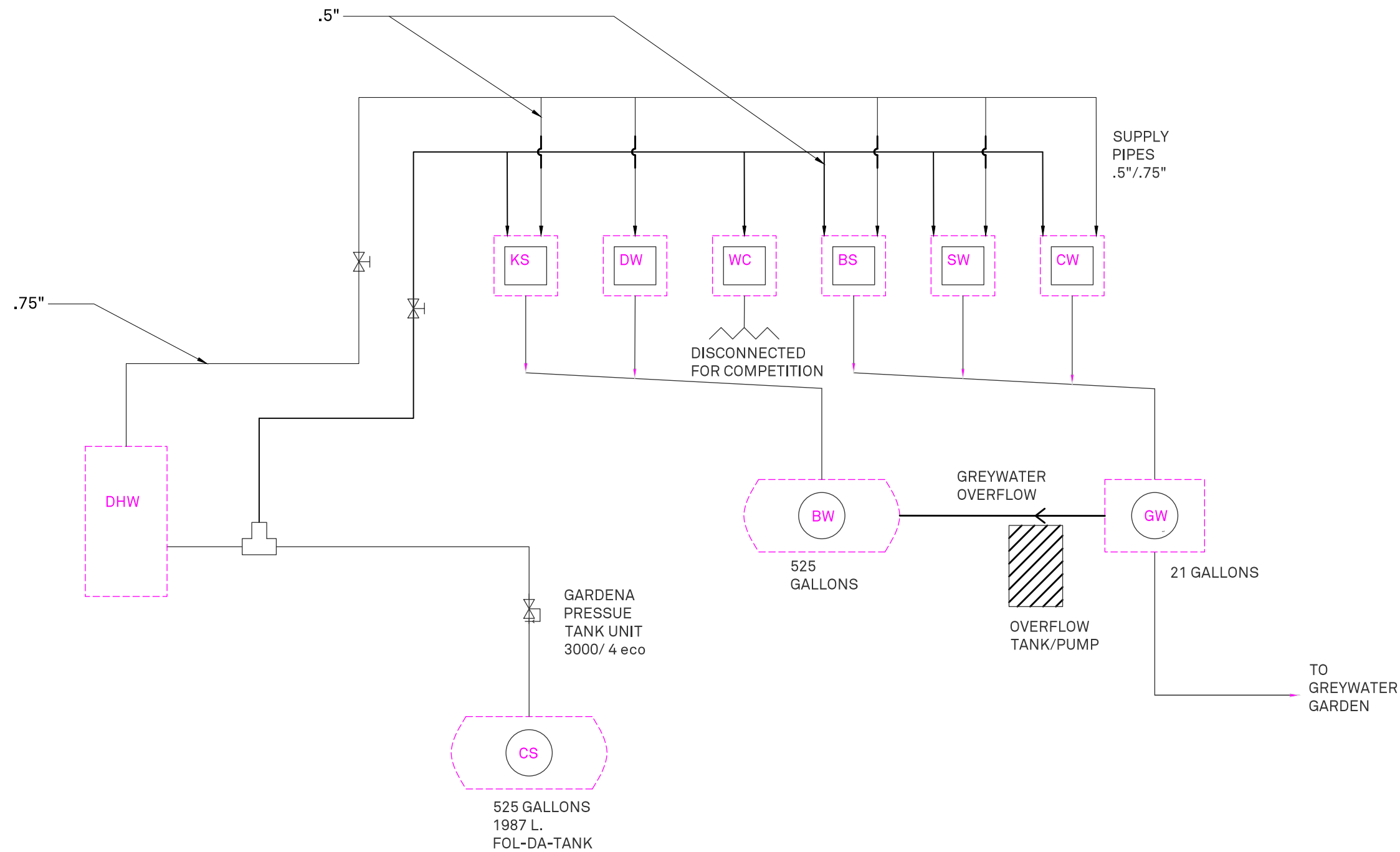
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PLUMBING SCHEDULE

Kitchen Sink	Elkay Lusterston Sink ELU1616
Kitchen Sink	Elkay Lusterston ELUH418
Faucet	Hansgrohe 04870800
Ceramic Sink	La Toscana L3012
Bathroom Faucet	Hansgrohe 32082821
Toilet	Kohler 6303-0
Shower	Hansgrohe 04266820
Balanced Trim Set	Hansgrohe 04233820
IBox	Hansgrohe 01850181

▶ CHECK VALUE
◀ REDUCING WYE

1 PLUMBING SUPPLY SCHEMATIC

STAMP

DRAWN BY: Dorian Junczewicz

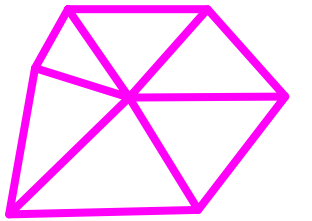
CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: N/A

PL-101



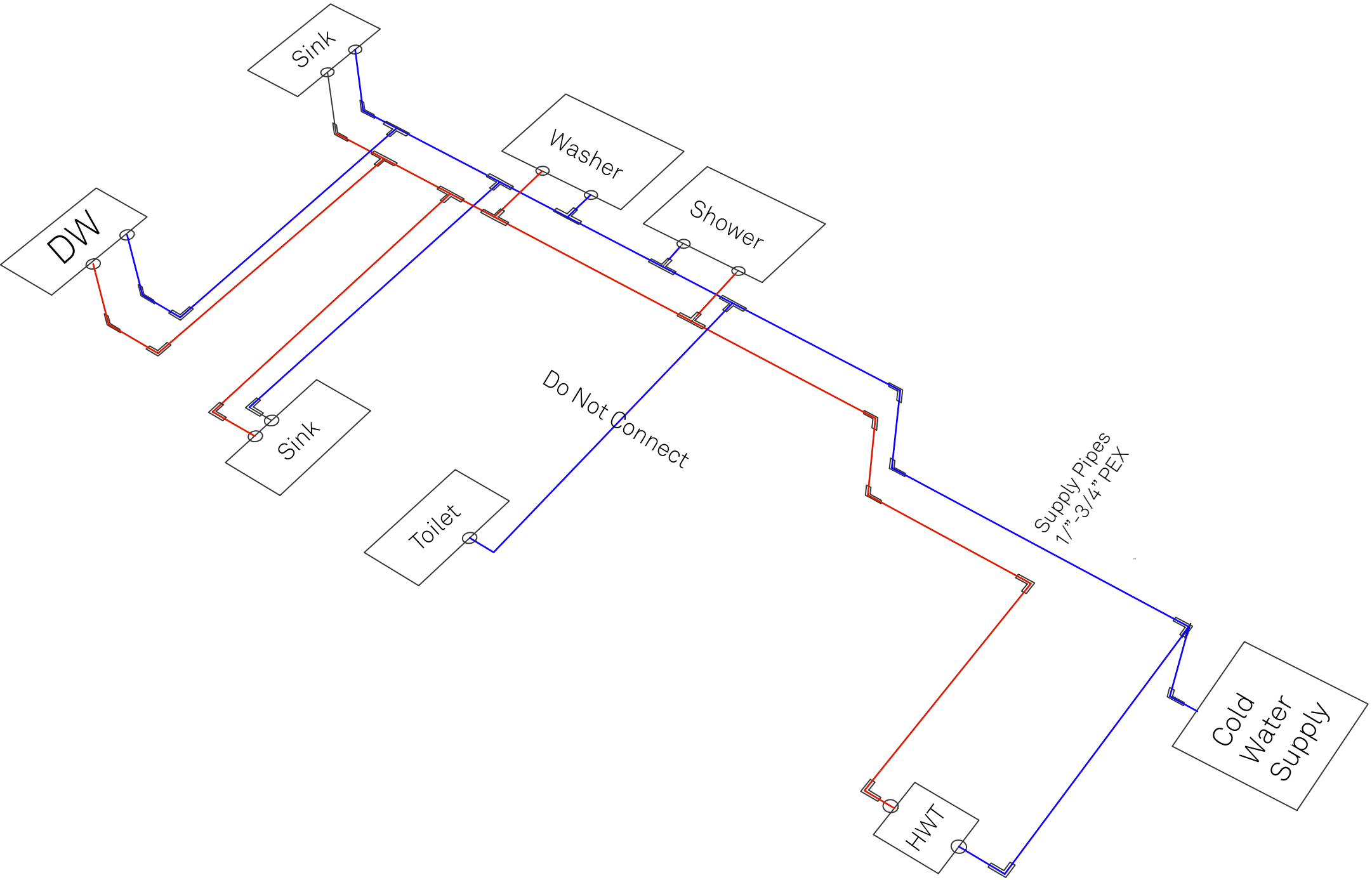
**TECHSTYLE
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1 SUPPLY ISOMETRIC

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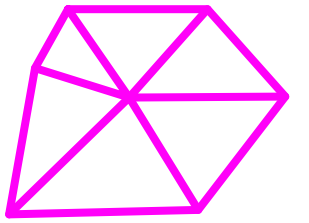
CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: N/A

PL-201



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STAMP

DRAWN BY: Helen Bergstrom

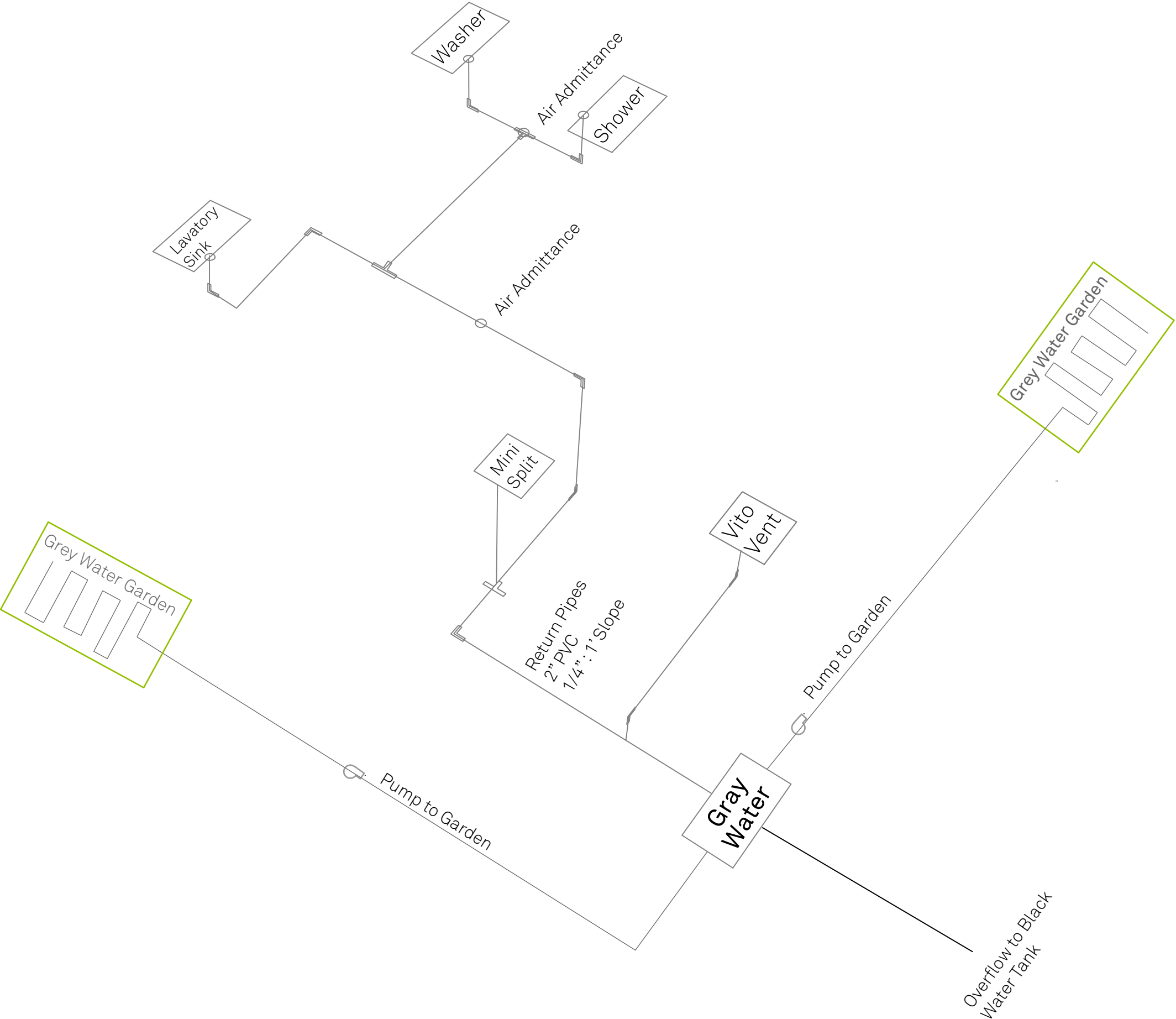
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STATUS: Deliverable # 7

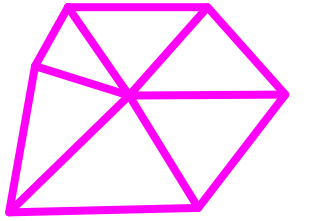
DATE: 03 November, 2014

SCALE: N/A

PL-211



1 GRAY WATER ISOMETRIC



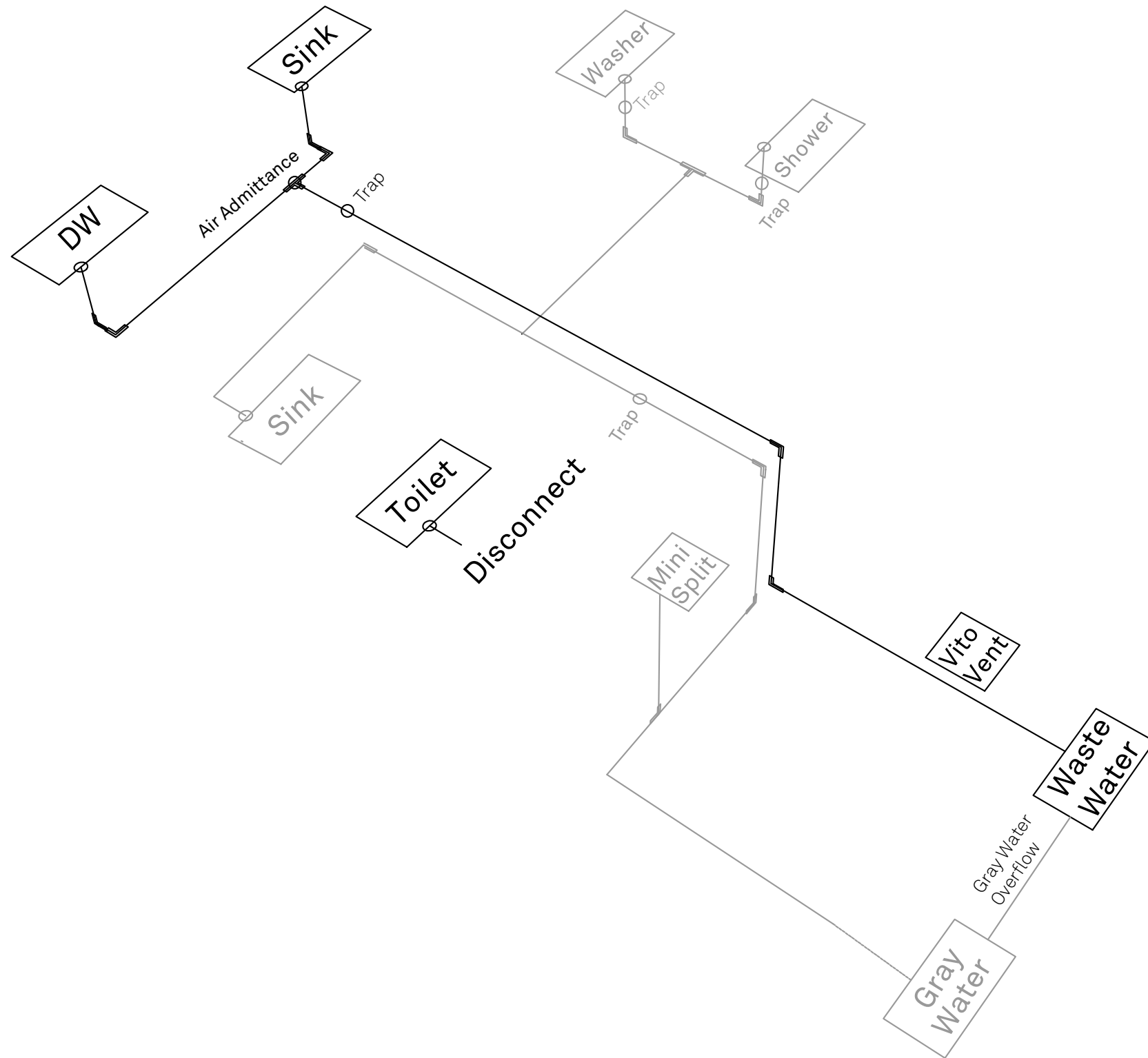
**TECHSTYLE
HAUS.**

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1 DRAIN ISOMETRIC

STAMP

DRAWN BY: Helen Bergstrom

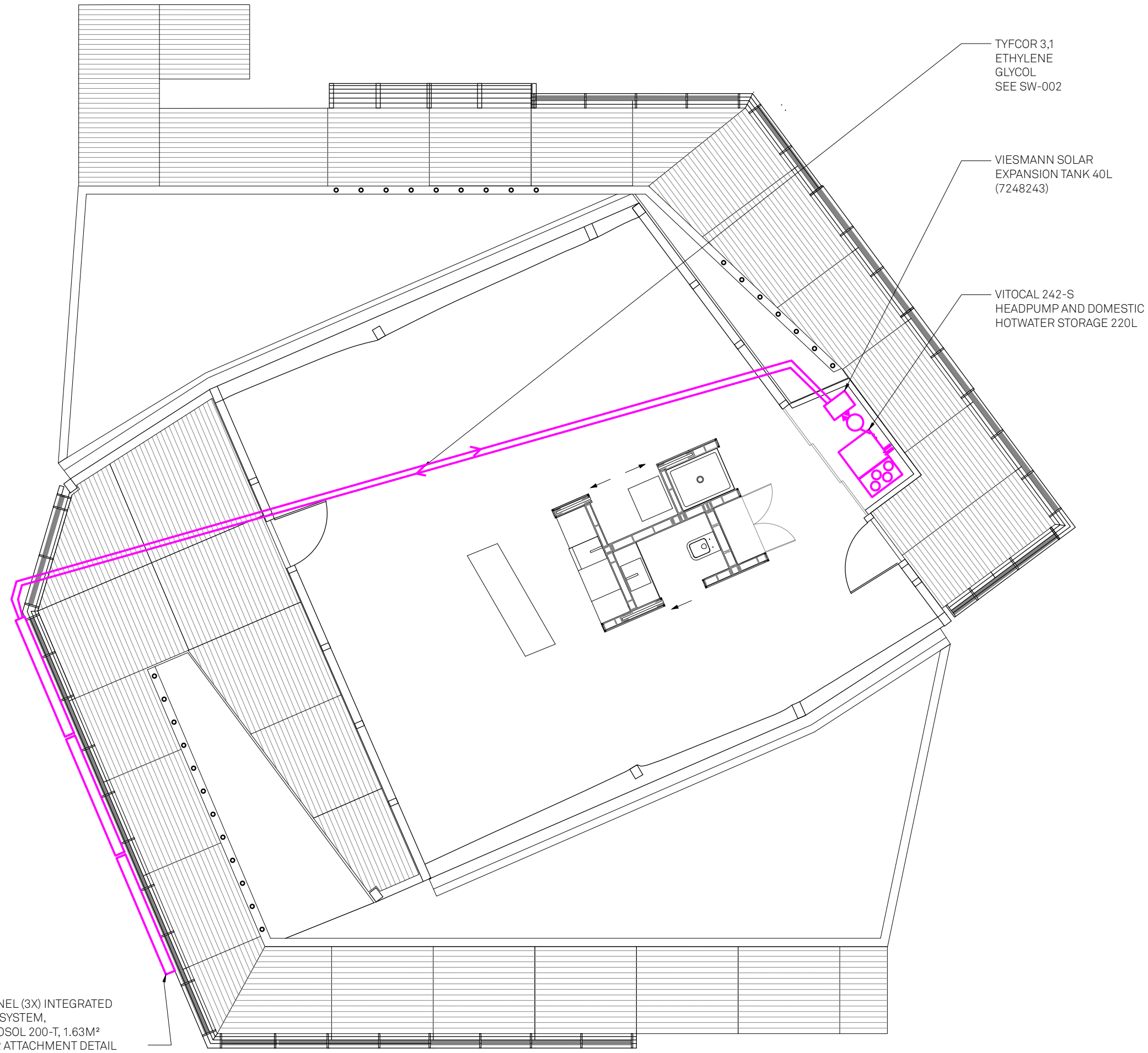
CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: N/A

PL-221

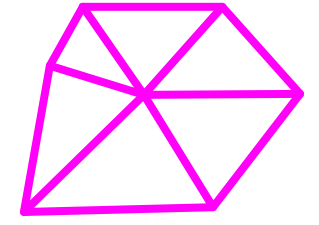


TYFCOR 3,1
ETHYLENE
GLYCOL
SEE SW-002

VISSMANN SOLAR
EXPANSION TANK 40L
(7248243)

VITOCAL 242-S
HEADPUMP AND DOMESTIC
HOTWATER STORAGE 220L

SOLAR TUBE PANEL (3X) INTEGRATED
TO THE RAILING SYSTEM,
VISSMANN VITOSOL 200-T, 1.63M²
SEE AR-370 FOR ATTACHMENT DETAIL



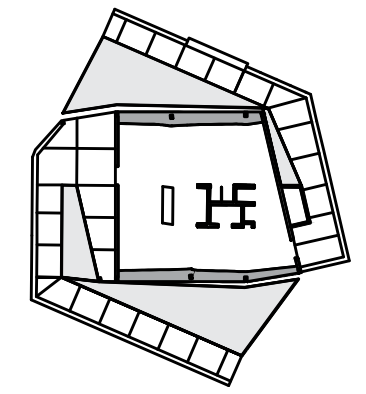
**TECHSTYLE
HAUS.**

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STAMP

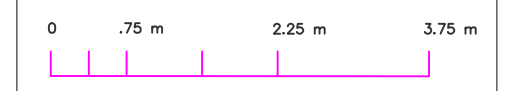
DRAWN BY: Helen Bergstrom

CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

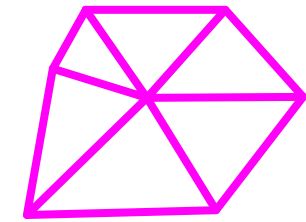
DATE: 3 November 2014

SCALE: 1:75



1 SOLAR WATER HEATING

SW-001



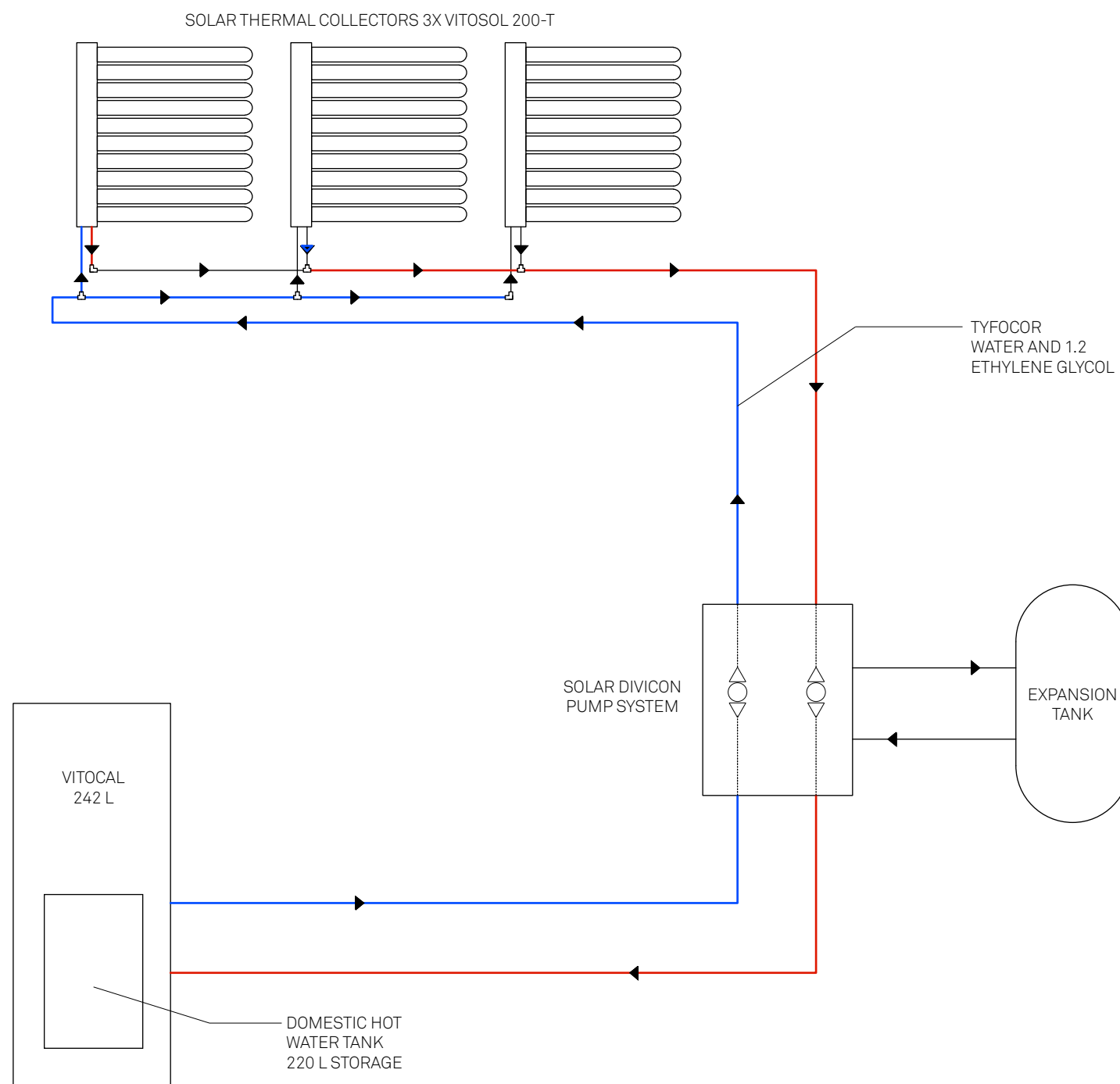
**TECHSTYLE
HAUS.**

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EVACUATED TUBE COLLECTORS ARE LOCATED ON THE SOUTH FACADE RAILINGS TO DIRECTLY COLLECT SOLAR RADIATION. TYFOCOR LIQUID IS CONTINUALLY BEING PUMPED THROUGH THIS SYSTEM BY THE SOLAR DIVICON. WHEN NECESSARY, ENERGY IS DRAWN FROM THE DIVICON TO EFFICIENTLY HEAT THE DOMESTIC WATER SUPPLY FOR THE HOUSE.

SCHEDULE	
SOLAR DIVICON	VEISSMANN DN 20
SOLAR TANK	VEISSMANN VITOCCELL 300-B
SOLAR COLLECTORS	VEISSMANN VITOSOL 200 T TYPE SPE
STORAGE TANK	VITOCAL 242 220 L

1 SOLAR WATER HEATING SCHEMATIC

STAMP

DRAWN BY: Dorian Juncewicz

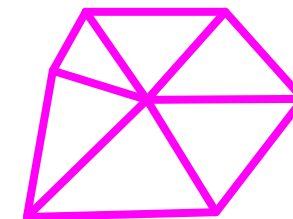
CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

DATE: 3 November 2014

SCALE: N/A

SW-101



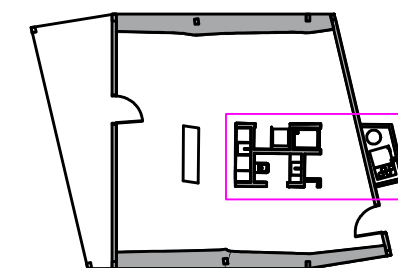
**TECHSTYLE
HAUS.**

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■ COOLING CIRCUIT
■ HEATING CIRCUIT



1

HVAC PLAN DIAGRAM

STAMP

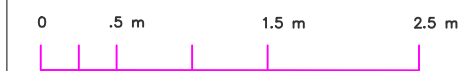
DRAWN BY: Giles Holt

CHECKED BY: Jonathan Knowles

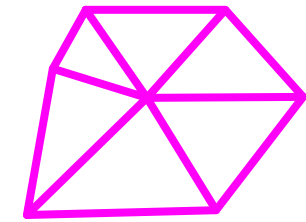
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DATE: 3 November 2014

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ME-001



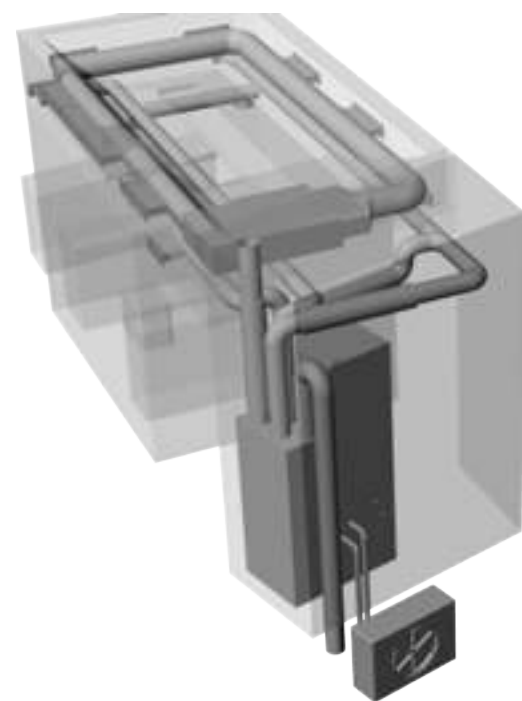
**TECHSTYLE
HAUS.**

INSIDE OUT

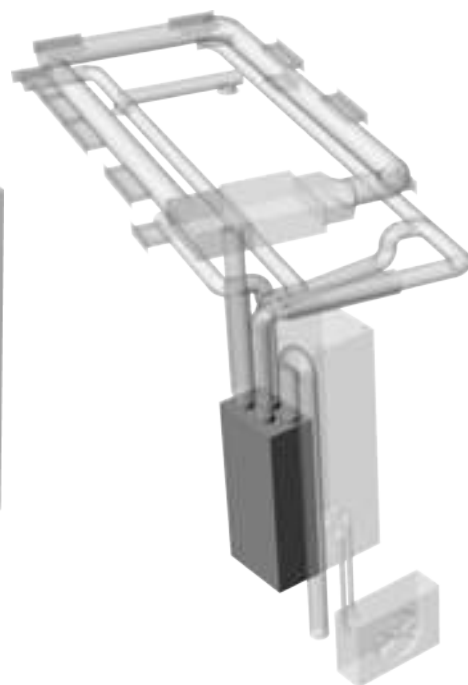
BROWN UNIVERSITY
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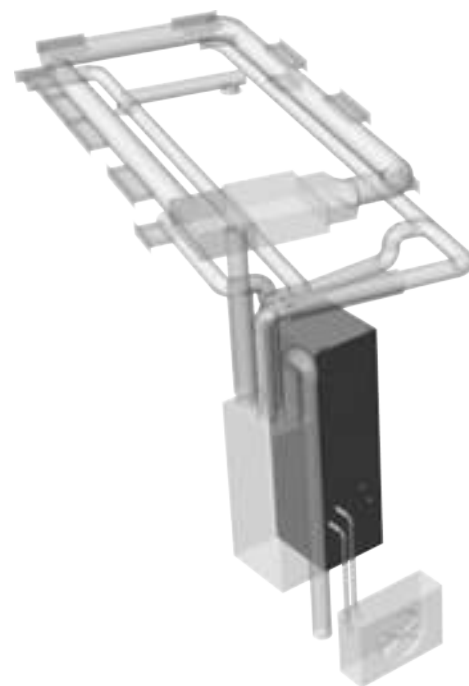
RHODE ISLAND SCHOOL
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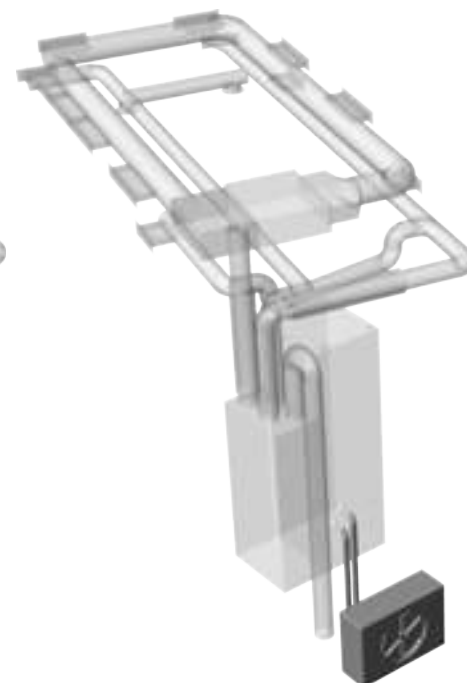
MECHANICAL EQUIPMENT OVERVIEW



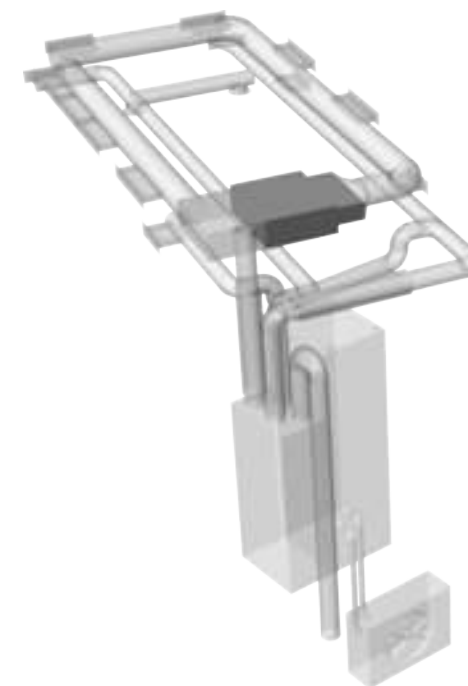
VITOVENT 300F (ENERGY RECOVERY VENTILATOR)



VITOCAL 242-S (DHW)



VIEMANN EXT. CONDENSER



DAIKIN MINISPLIT (FDXS-F)

1

MECHANICAL EQUIPMENT

STAMP

DRAWN BY: Giles Holt

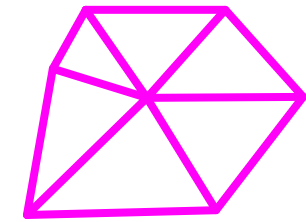
CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

DATE: 3 November 2014

SCALE: N/A

ME-011



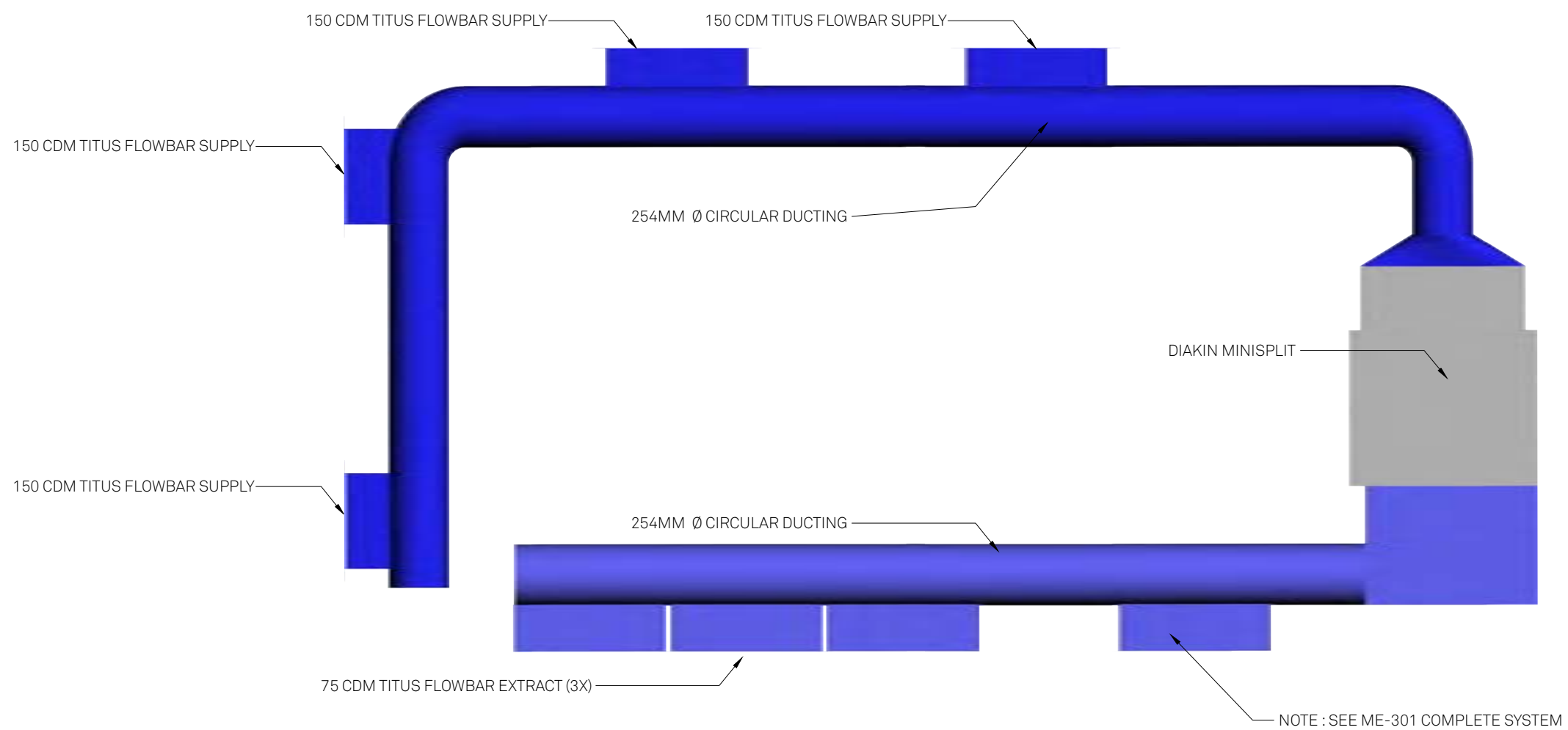
**TECHSTYLE
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1 COOLING CIRCUIT

STAMP

DRAWN BY: Giles Holt

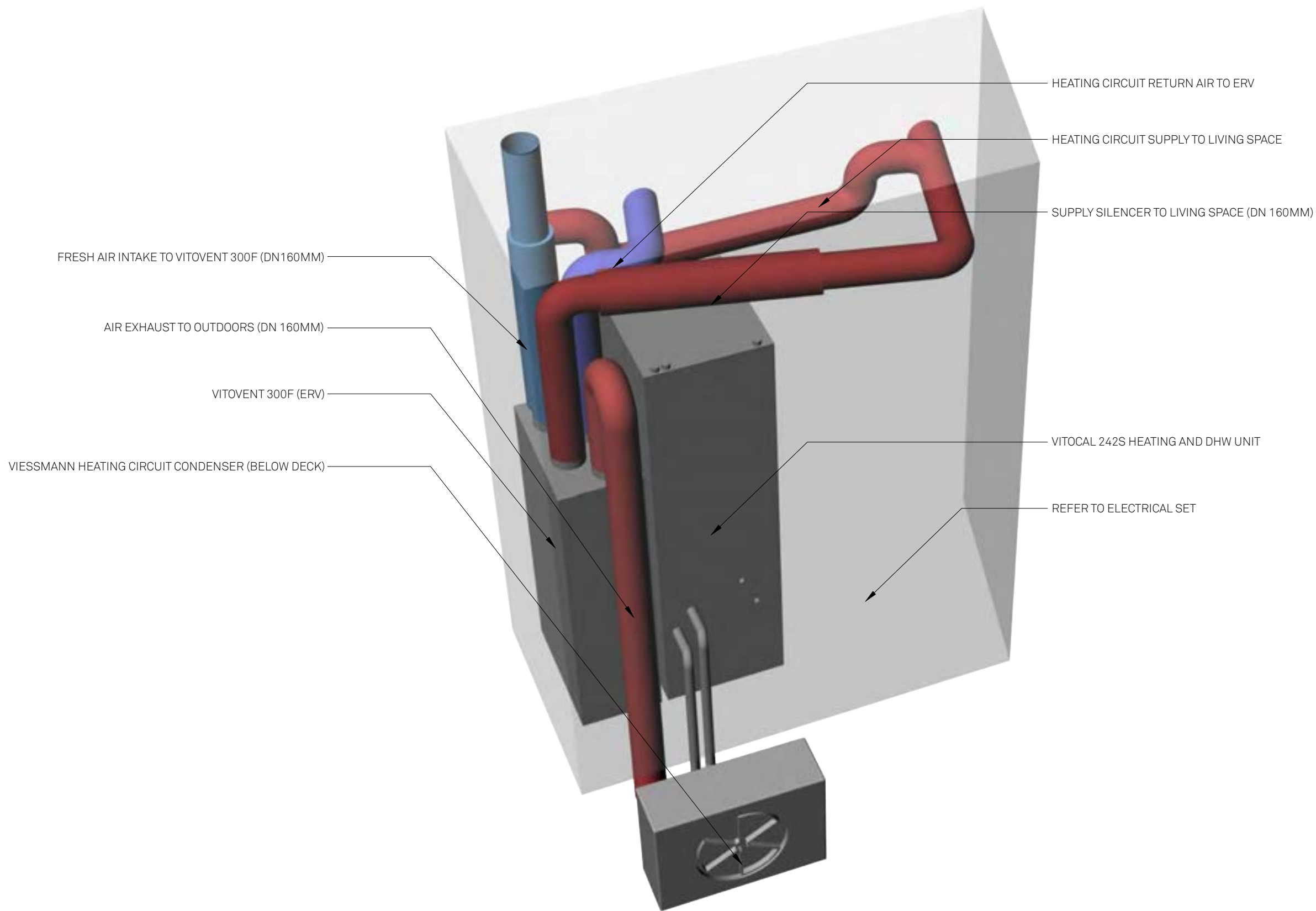
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STATUS: Deliverable #7

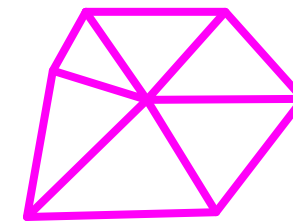
DATE: 3 November 2014

SCALE: N/A

ME-031



1 MECHANICAL CLOSET



**TECHSTYLE
HAUS.**

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DRAWN BY: Giles Holt

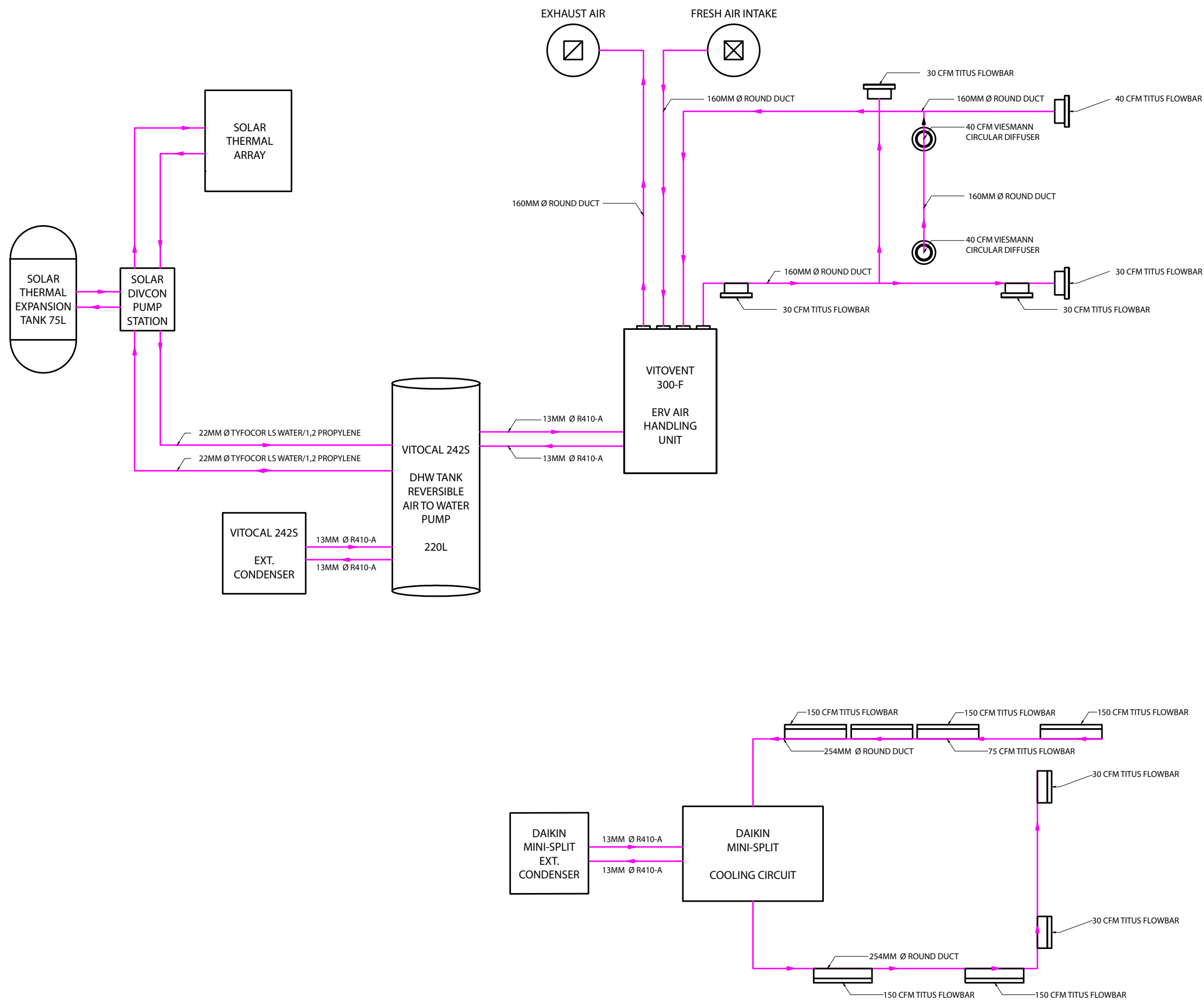
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STATUS: Deliverable #7

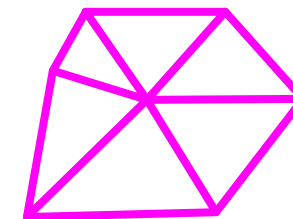
DATE: 3 November 2014

SCALE: N/A

ME-101



1 SYSTEM SCHEMATIC



**TECHSTYLE
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STAMP

DRAWN BY: Giles Holt

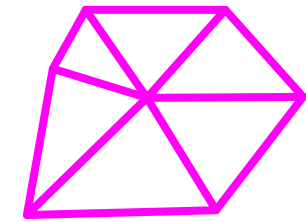
CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

DATE: 03 November, 2014

SCALE: N/A

ME-201



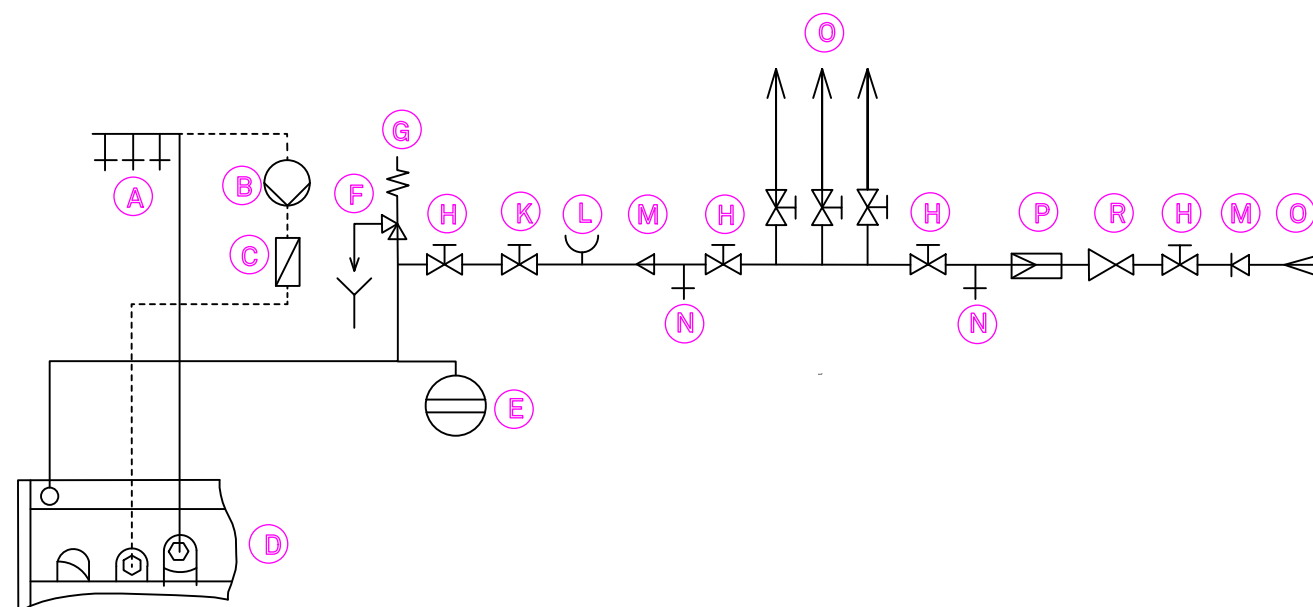
**TECHSTYLE
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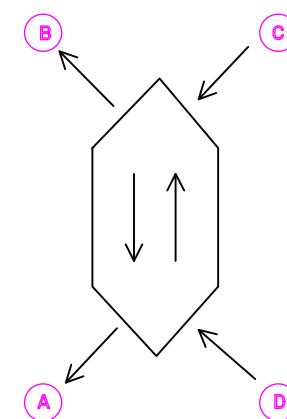
FACHHOCHSCHULE ERFURT
Altonaer Straße 25
99085 Erfurt
Germany
+49-361-6700-443

RHODE ISLAND SCHOOL
OF DESIGN
2 College Street
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United States
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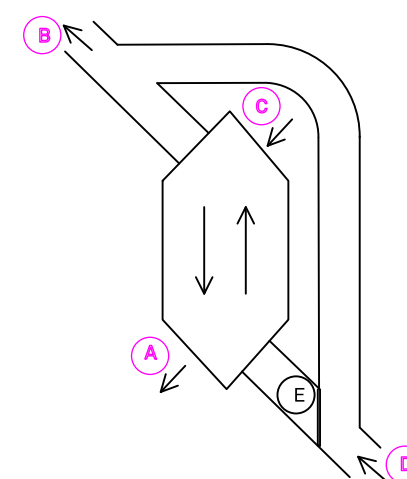
- (A)** DHW
- (B)** DHW CIRCULATION PUMP
- (C)** SPRING-LOADED CHECK VALVE
- (D)** HEAT PUMP CONNECTING CHAMBER (PLAN VIEW)
- (E)** EXPANSION VESSEL, SUITABLE FOR DRINKING WATER
- (F)** VISIBLE DISCHARGE PIPE OUTLET POINT
- (G)** SAFETY VALVE
- (H)** SHUT-OFF VALVE
- (I)** FLOW REGULATING VALVE
- (J)** PRESSURE GAUGE CONNECTION
- (K)** NON-RETURN VALVE/PIPE SEPARATOR
- (L)** DRAIN VALVE
- (M)** COLD WATER

2 VITOCAL 242S SCHEMATIC



OPERATION WITH HEAT RECOVERY

- (A)** SUPPLY AIR
- (B)** EXHAUST AIR
- (C)** OUTDOOR AIR
- (D)** EXTRACT AIR



**OPERATION WITHOUT HEAT RECOVERY
(SUMMER BYPASS)**

- (A)** SUPPLY AIR
- (B)** EXHAUST AIR
- (C)** OUTDOOR AIR
- (D)** EXTRACT AIR
- (E)** BYPASS DAMPER

1 VITOVENT 300F SCHEMATIC

STAMP

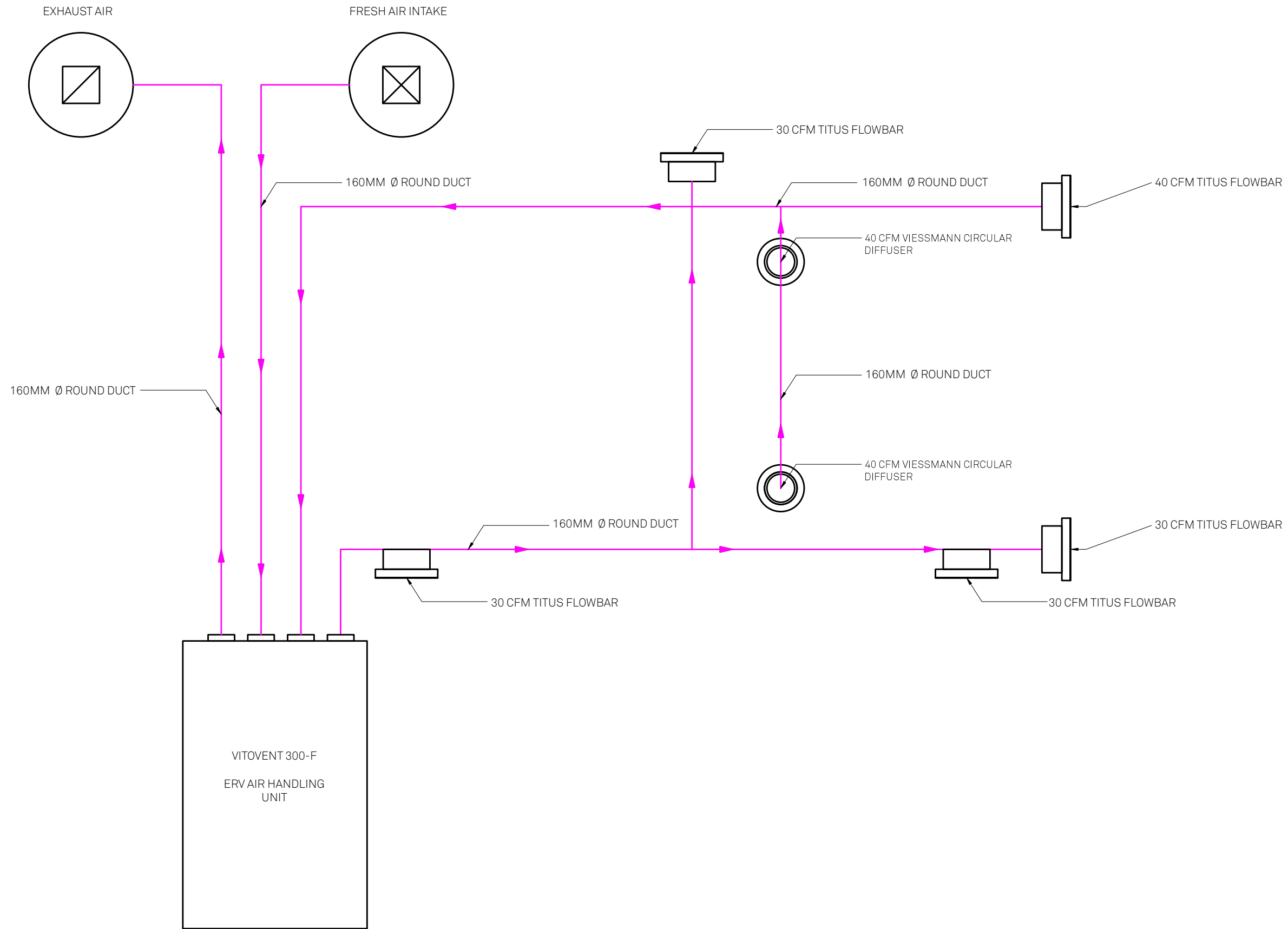
DRAWN BY: Giles Holt

CHECKED BY: Jonathan Knowles

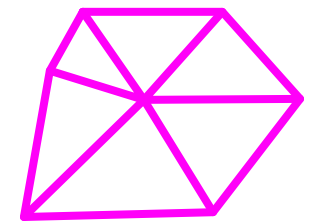
STATUS: Deliverable #7

DATE: 3 November 2014

SCALE: N/A



1 HEATING SCHEMATIC



**TECHSTYLE
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DRAWN BY: Giles Holt

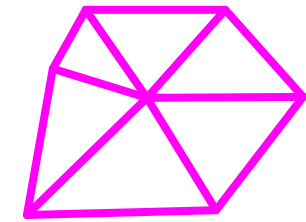
CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

DATE: 3 November 2014

SCALE: N/A

ME-211



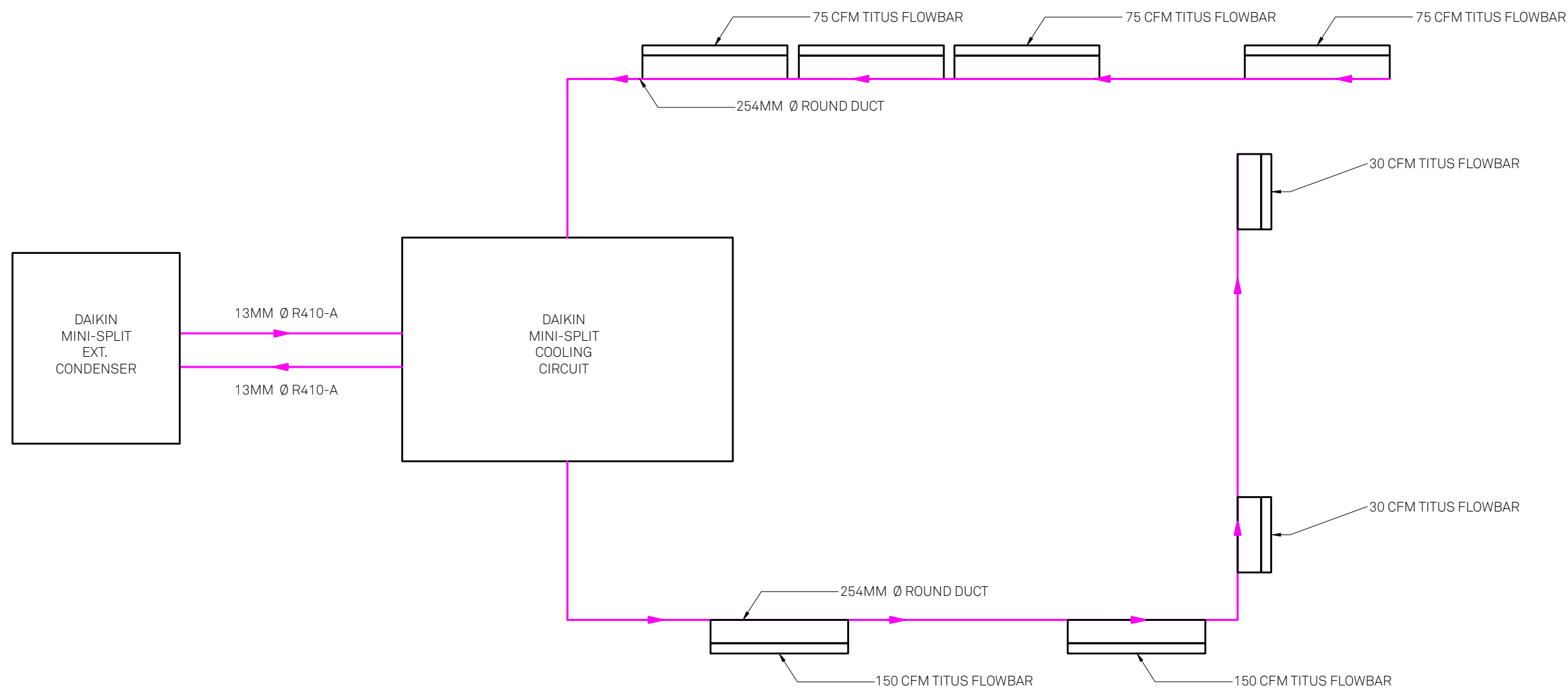
**TECHSTYLE
HAUS.**

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1 COOLING SCHEMATIC

STAMP

DRAWN BY: Giles Holt

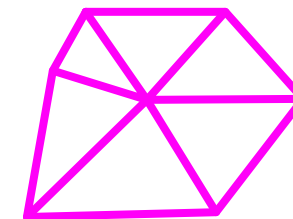
CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

DATE: 3 November 2014

SCALE: N/A

ME-221



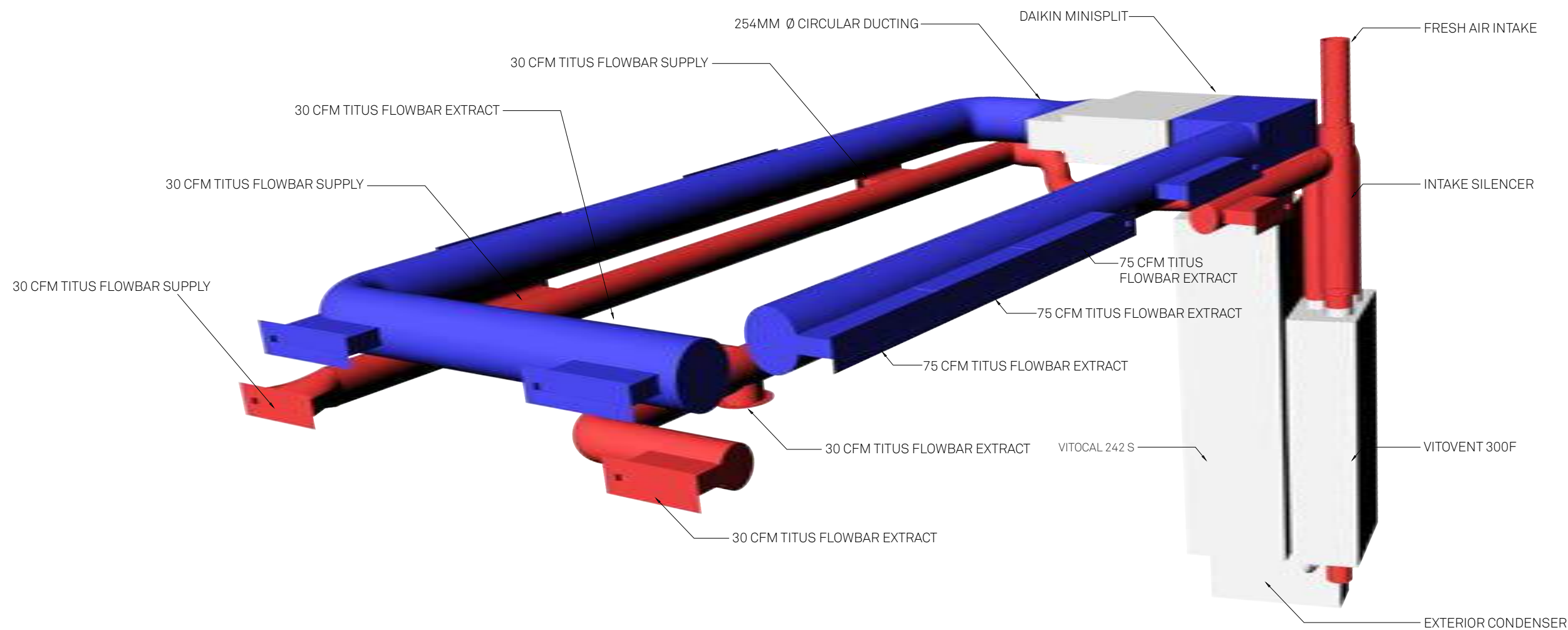
**TECHSTYLE
HAUS.**

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NOTES

- ① SEE ME-201 FOR HEATING AND VENTILATION CIRCUIT
- ② SEE ME-211 FOR COOLING CIRCUIT

- HEATING AND COOLING CIRCUITS ARE DECOUPLED
- VENTILATION IS ACHIEVED THROUGH HEATING CIRCUIT
- ALL REGISTERS ARE ACTIVE SEGMENTS OF TITUS FLOWBAR
- COOLING CIRCUIT ALSO WORKS AS DESICCANT

1

ISOMETRIC DISTRIBUTION

STAMP

DRAWN BY: Giles Holt

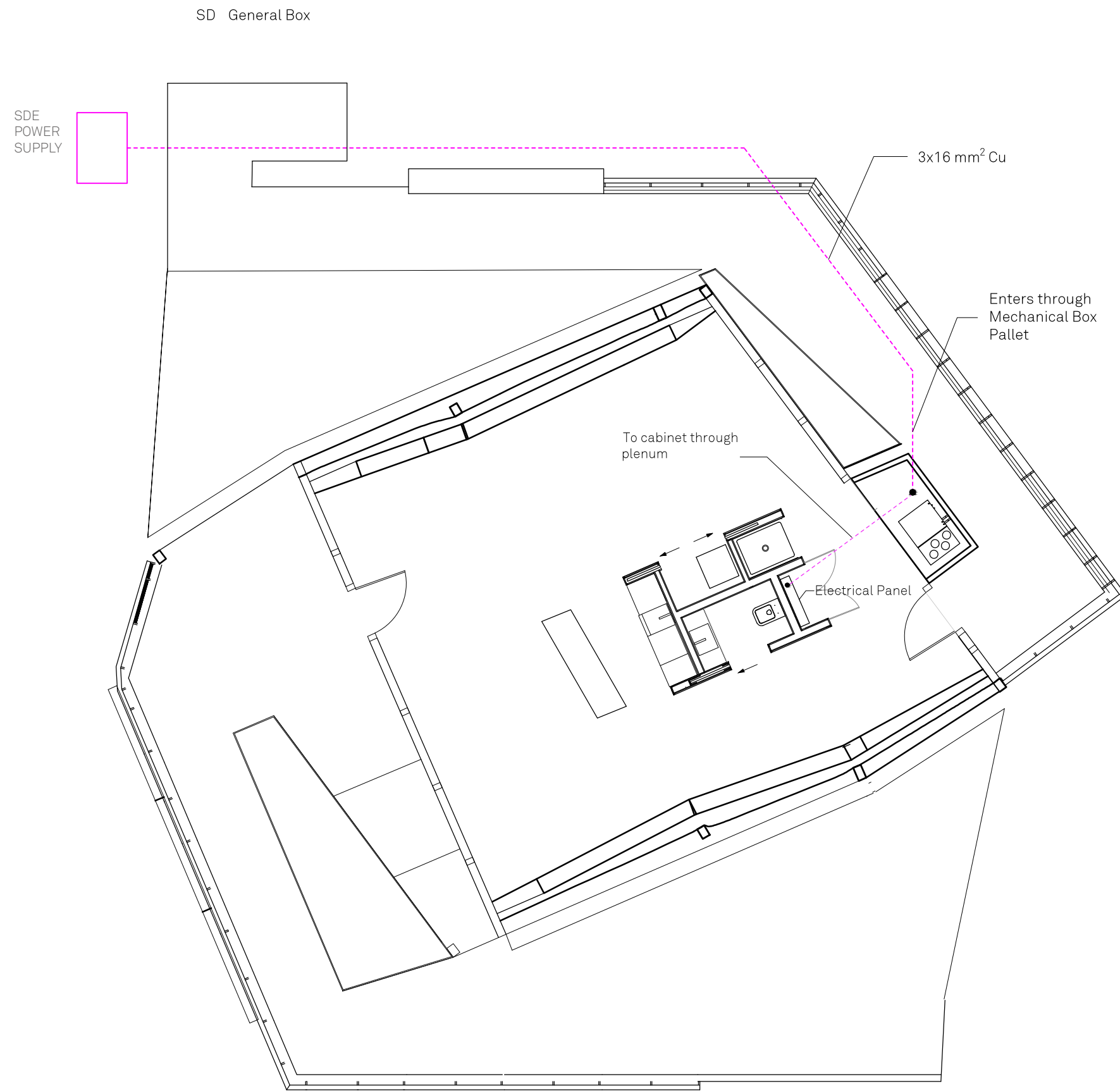
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STATUS: Deliverable #7

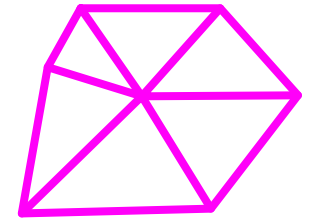
DATE: 3 November 2014

SCALE: N/A

ME-301



1 GRID INTERCONNECTION



**TECHSTYLE
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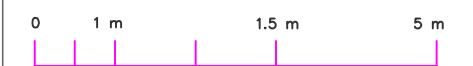
DRAWN BY: Matt Breuer

CHECKED BY: Jonathan Knowles

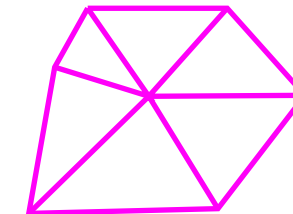
STATUS: Deliverable #7

DATE: 3 November 2014

SCALE: 1:100



EL-001

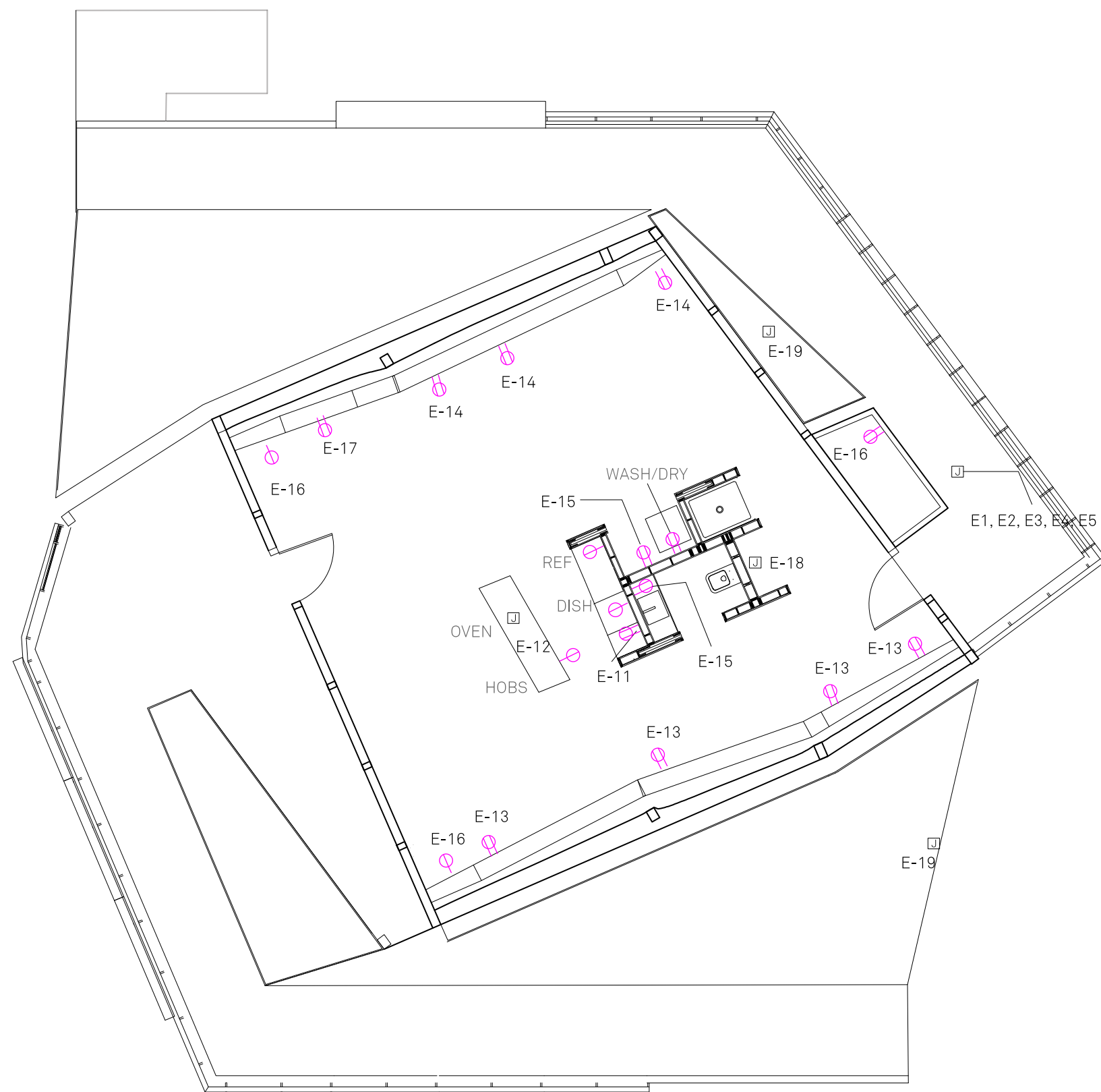


**TECHSTYLE
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- J Direct Connection
- ⊕ Single
- ⊕ Duplex

1 OUTLET PLAN

STAMP

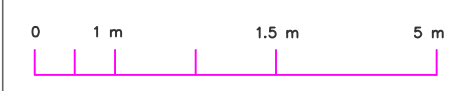
DRAWN BY: Matt Breuer

CHECKED BY: Jonathan Knowles

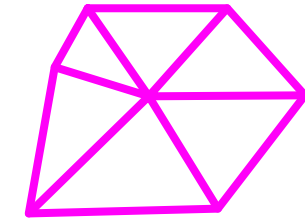
STATUS: Deliverable #7

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SCALE: 1:100



EL-301



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Panel: "E"	Description	Type: 230V Single Phase Mains 63A	
CKT. No. Serving			
1	Vitocal Internal 1	3000W	20/1
2	Vitocal Internal 2	3000W	20/1
3	Vitocal External	3000W	20/1
4	Daikin Internal/External	1000W	20/1
5	Vltovent, Solar Thermal Controller and Pump	1000W	20/1
6	Washer/Dryer	2100W	16/1
7	Dishwasher/Blackwater Pump	2400W	16/1
8	Refrigerator	1840W	16/1
9	Oven	3650W	20/1
10	Cooktops	3600W	20/1
11	Kitchen Sockets 1	3600W	16/1
12	Kitchen Sockets 2	3600W	16/1
13	East Sockets	3600W	16/1
14	West Sockets	3600W	16/1
15	Bathroom Sockets	3600W	16/1
16	Mechanical and Outdoor Sockets	3600W	16/1
17	Home Electronics Sockets	3600W	16/1
18	Building Automation	500W	16/1
19	Greywater Treatment Filter, Greywater Overflow, Fresh Water Pressure Pump	1000W	16/1
20	Loft Lighting	1000W	13/1
21	Core Internal Lighting	1000W	13/1
22	Outdoor Lighting	1000W	13/1

1 ELECTRICAL SCHEDULE

STAMP

DRAWN BY: Matt Breuer

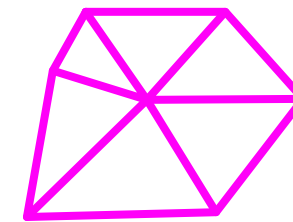
CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

DATE: 3 November 2014

SCALE: NO SCALE

EL-302



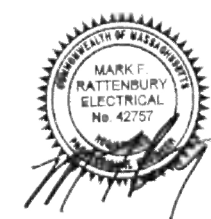
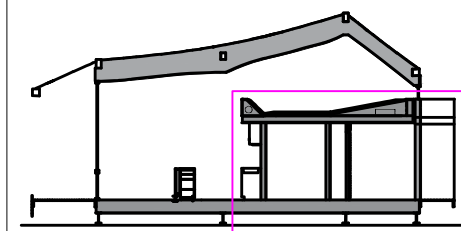
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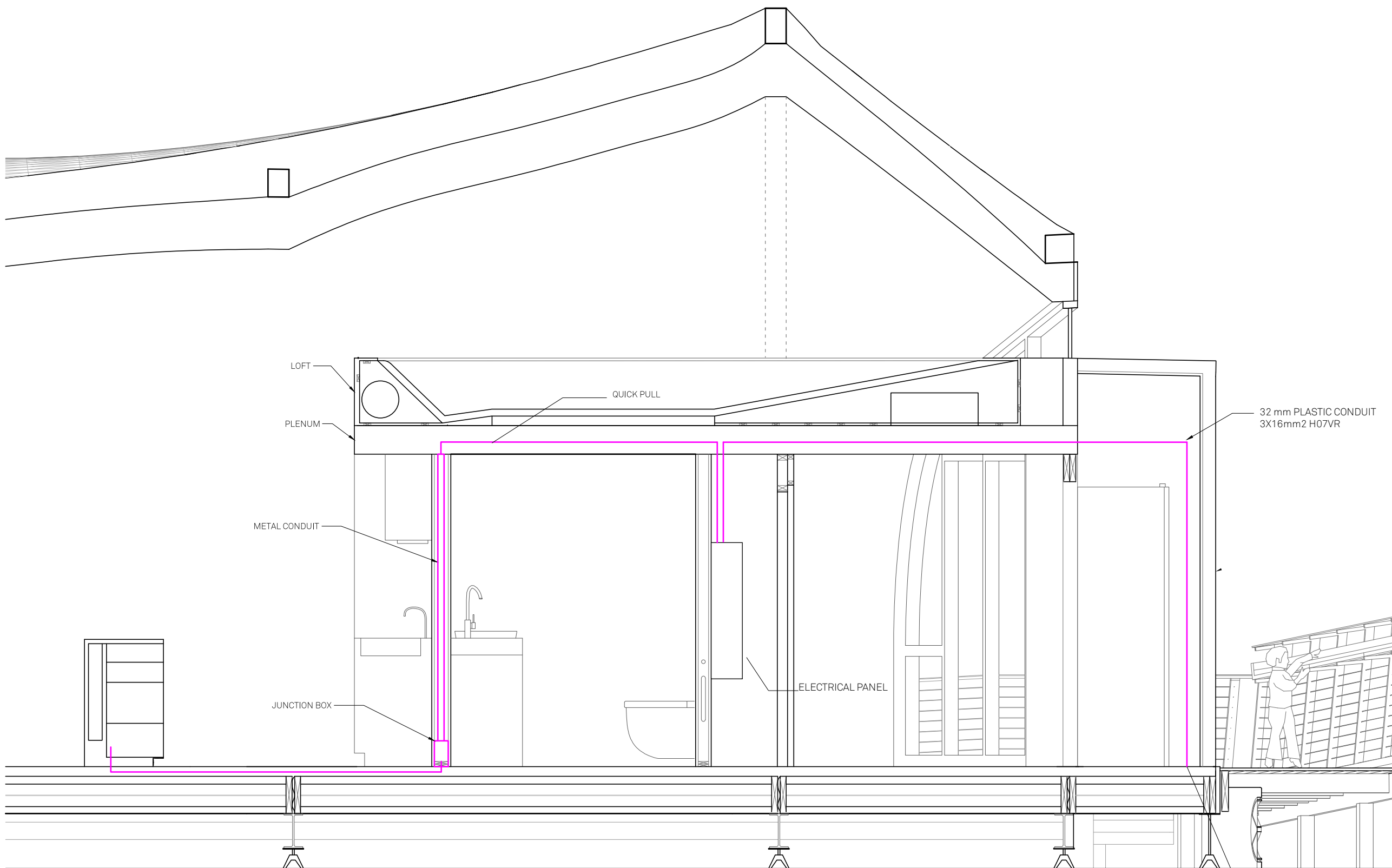
STATUS: Deliverable #7

DATE: 3 November 2014

SCALE: 1:25



EL-303



LOFT

PLENUM

METAL CONDUIT

JUNCTION BOX

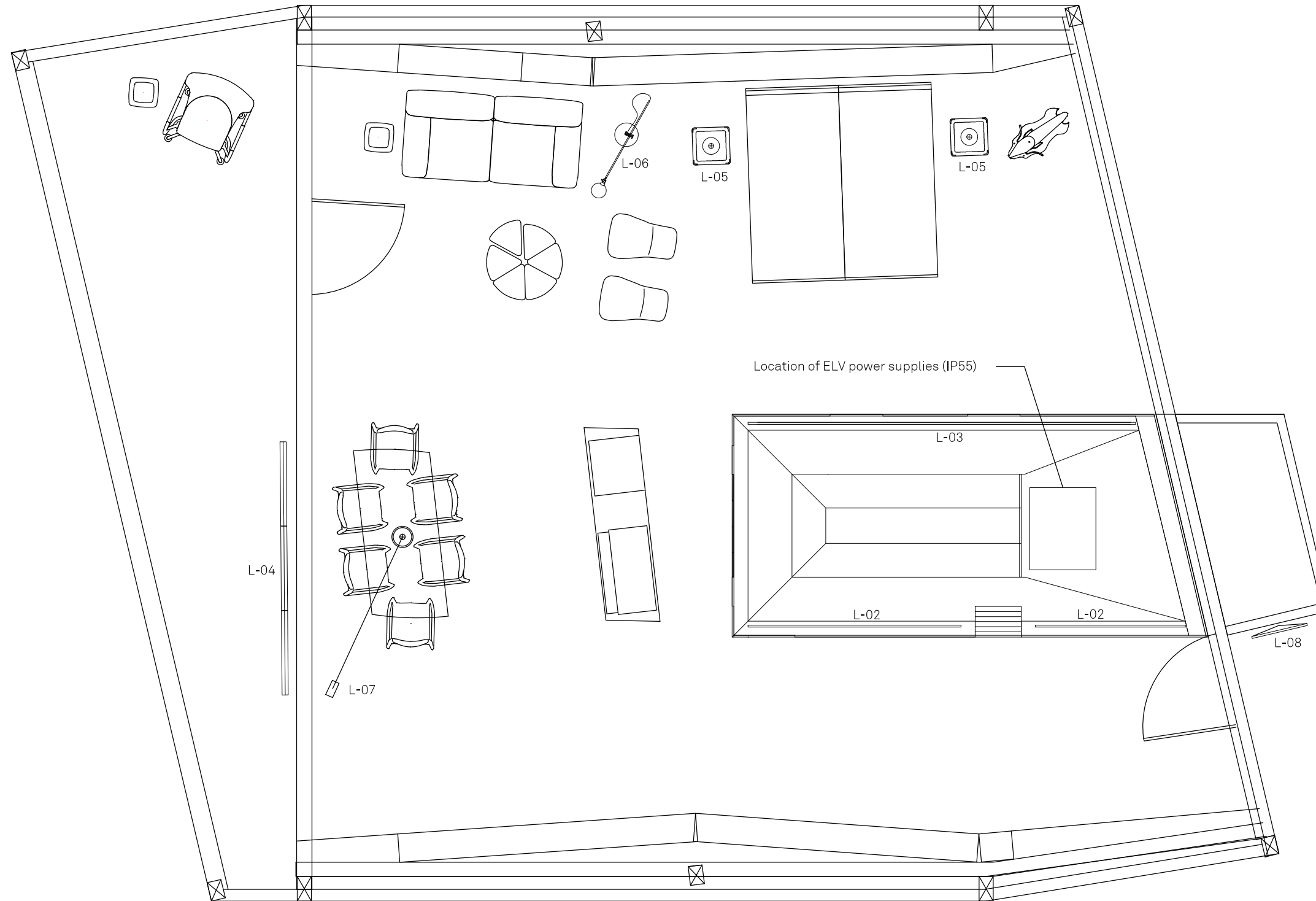
QUICK PULL

ELECTRICAL PANEL

32 mm PLASTIC CONDUIT
3X16mm2 H07VR

GRID
INTERCONNECTION

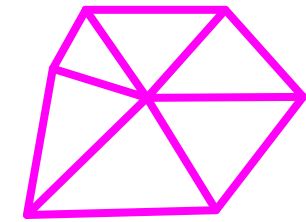
1 ELECTRICAL DISTRIBUTION SCHEMATIC



Legend

- L-02 LiteGear VHO "Pro" Tungsten White, 3200° Kelvin Temperature 3
- L-03 LiteGearVHO "Pro" Tungsten White, 3200° Kelvin Temperature 2
- ⊕ L-05 Workstead Table Lamp
- ⊕ L-06 Workstead Floor Lamp
- ⊕ L-07 Arco Floor Lamp with LED Bulb
- L-08 Philips eW Graze QLX 2700K Powercore IP66 2 Foot

1 LIGHTING PLAN - GENERAL



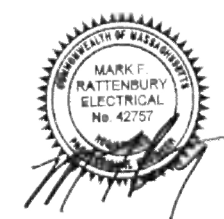
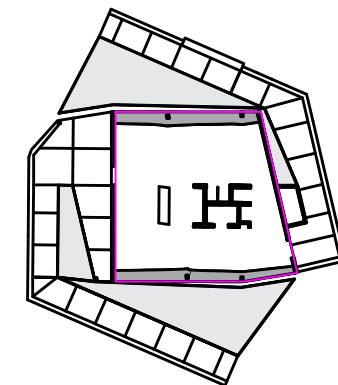
**TECHSTYLE
HAUS.**

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STAMP

DRAWN BY: Alexandra Gadawski

CHECKED BY: Jonathan Knowles

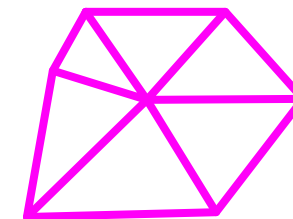
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DATE: 3 November 2014

SCALE: 1:50



EL-401



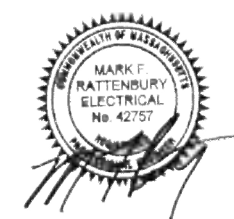
**TECHSTYLE
HAUS.**

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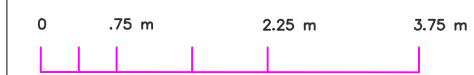
DRAWN BY: Alexandra Gadawski

CHECKED BY: Jonathan Knowles

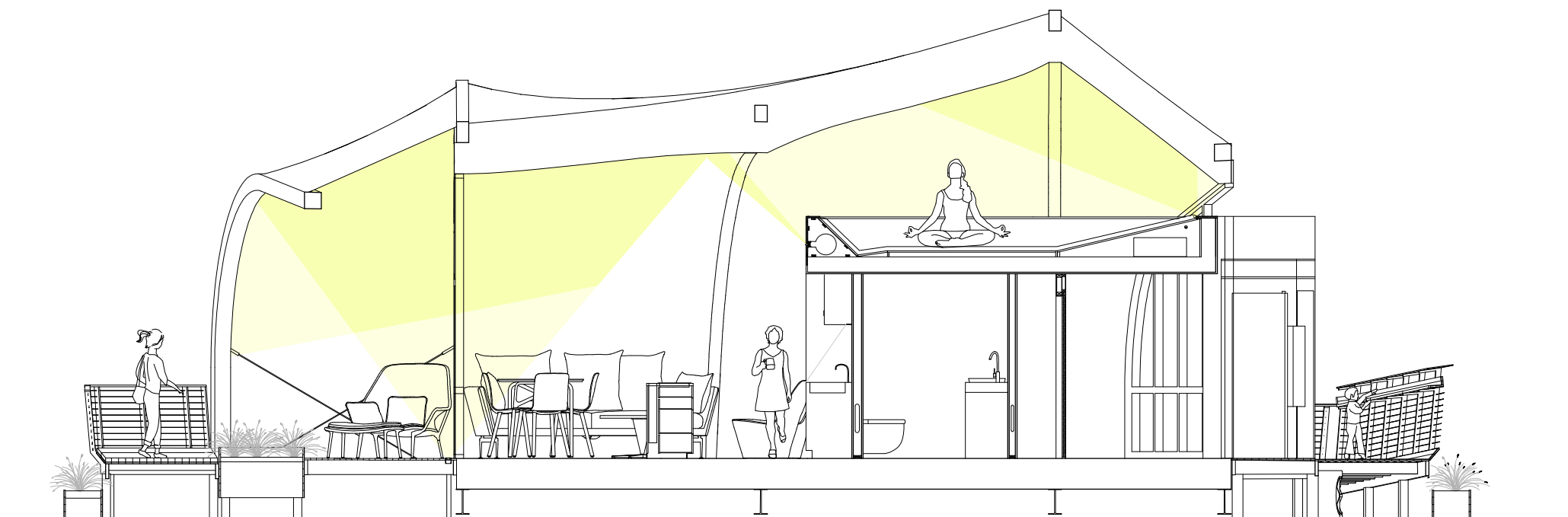
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DATE: 3 November 2014

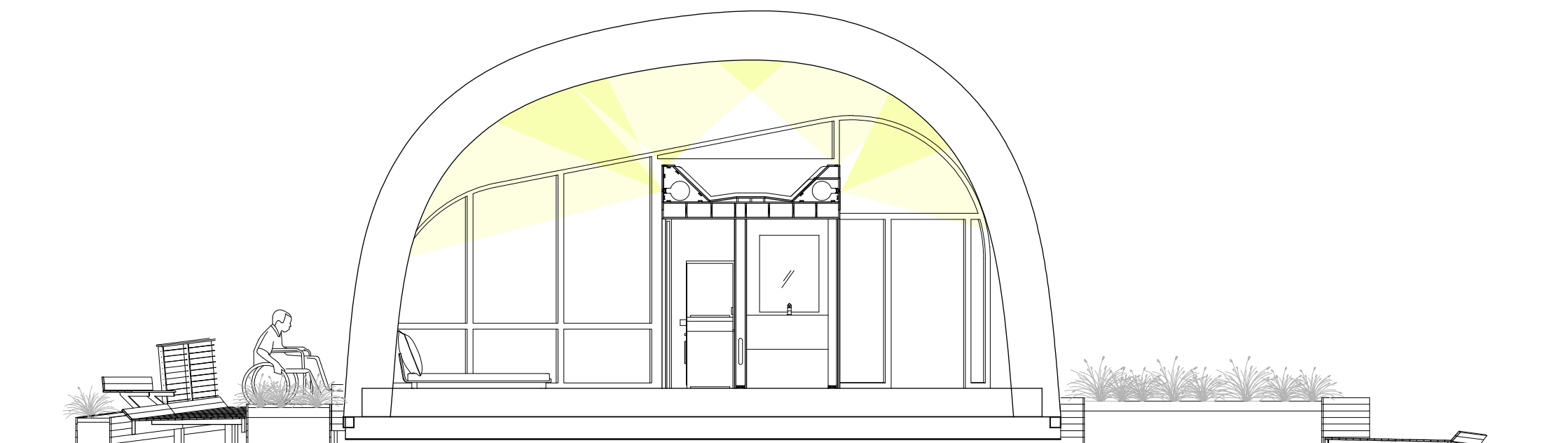
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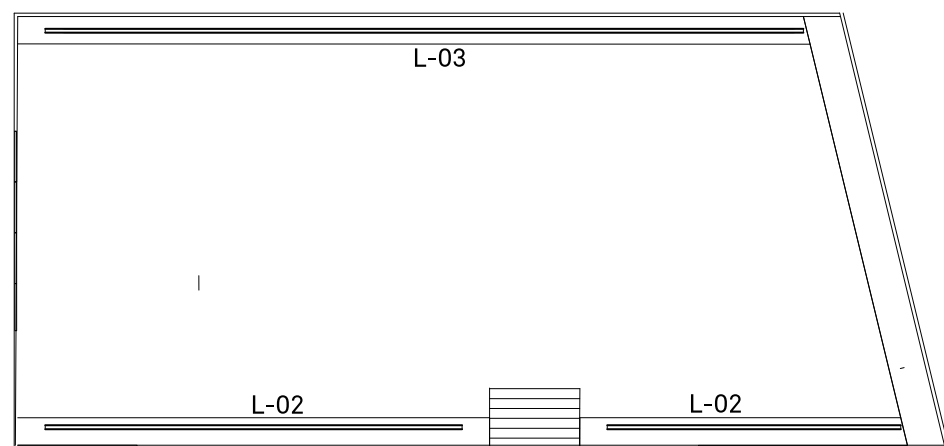
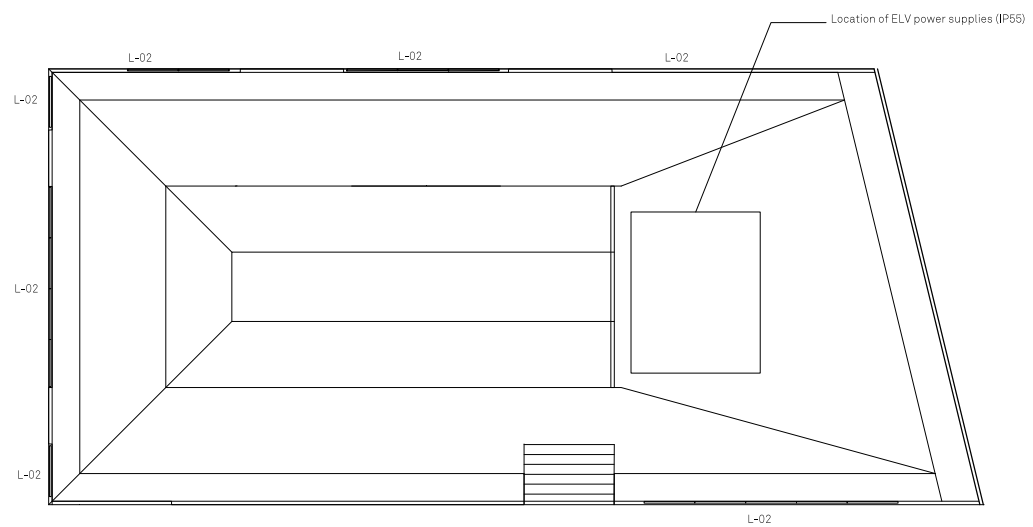
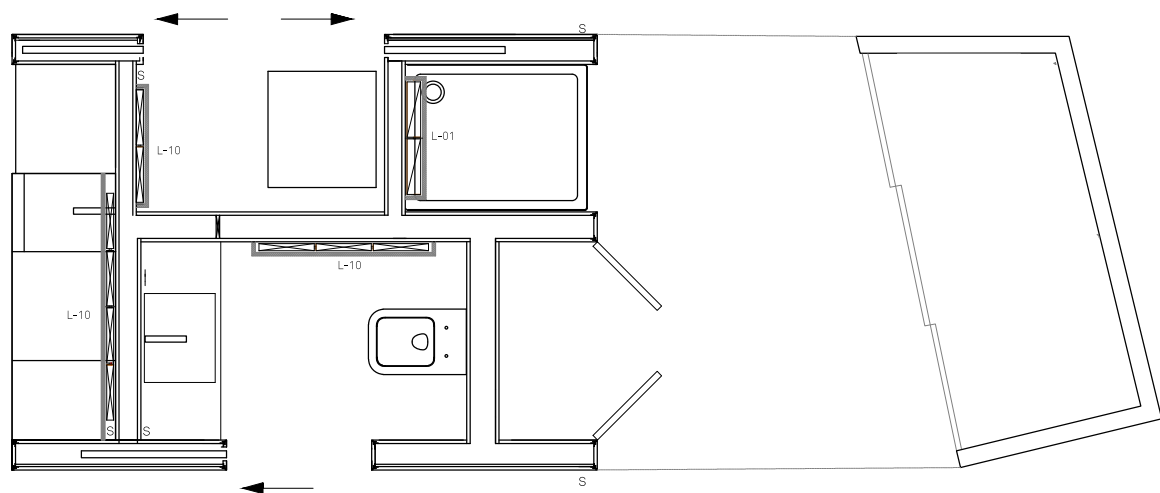
EL-402






1 LIGHTING DIAGRAM LONGITUDINAL SECTION



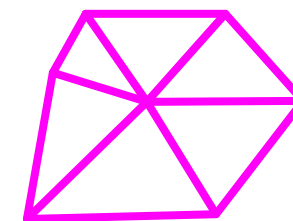
2 LIGHTING DIAGRAM TRANSVERSAL SECTION



Legend

-  L-01 Philips eW Graze QLX 2700K Powercore IP66 1 Foot
-  L-02 LiteGear VHO "Pro" Tungsten White, 3200° Kelvin Temperature 3
-  L-03 VHO "Pro" Tungsten White, 3200° Kelvin Temperature 2

1 LIGHTING PLAN - CORE/VENT STRIP



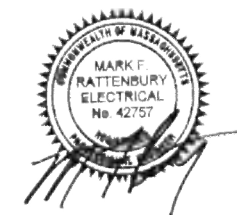
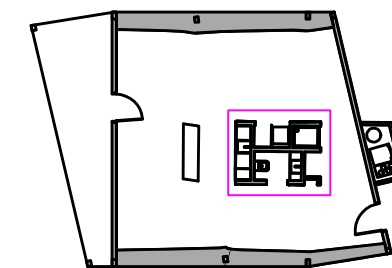
**TECHSTYLE
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CHECKED BY: Jonathan Knowles

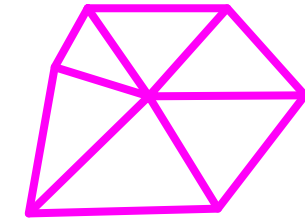
STATUS: Deliverable #7

DATE: 3 November 2014

SCALE: 1:20



EL-403

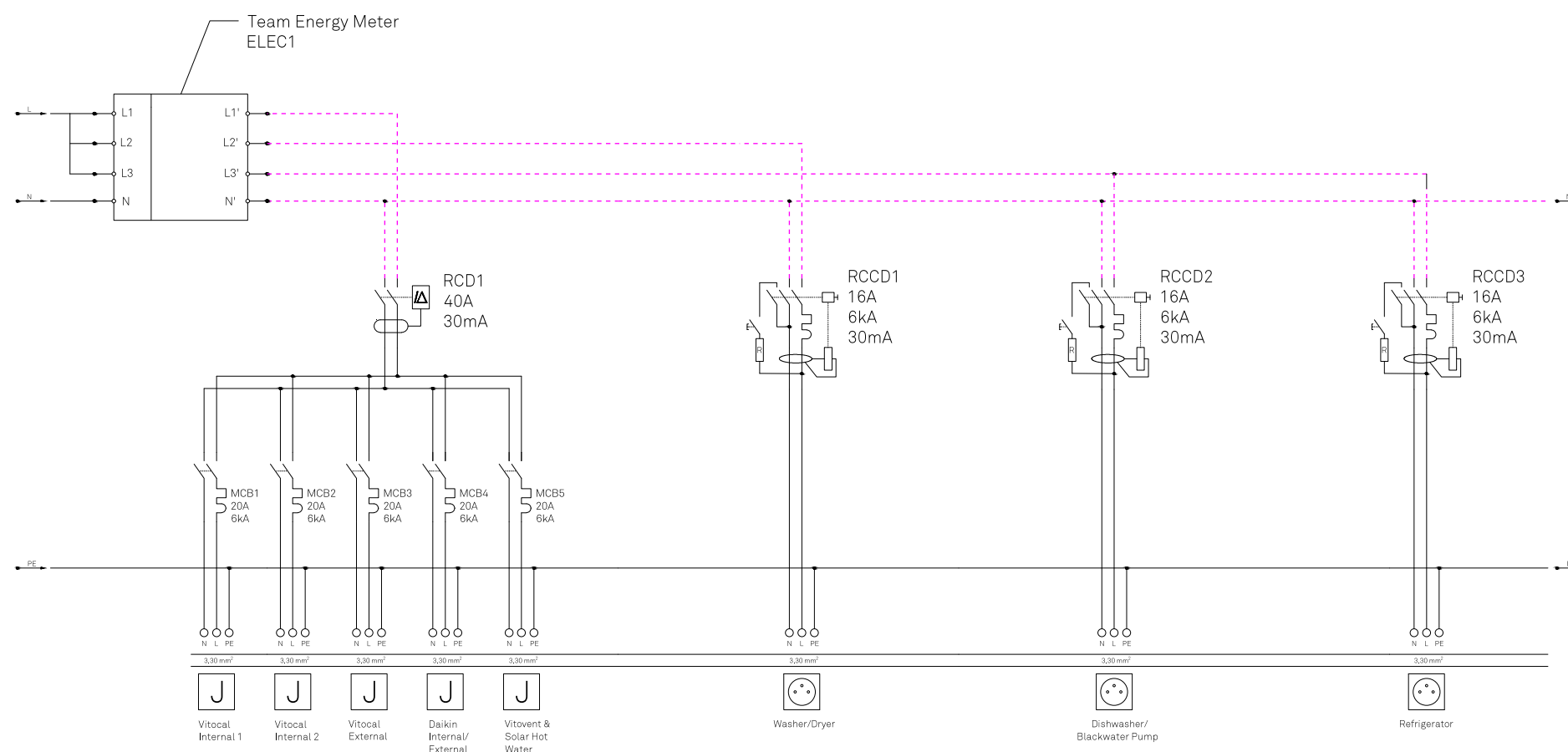


**TECHSTYLE
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


FACHHOCHSCHULE ERFURT
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NOTE FOR S DE:
All MCBs are Schneider-Electric Acti9 iC60N
All RCDs are Schneider-Electric Acti9 iLD
All RCCDs re Schneider-Electric Acti9 iLD
All cable is THHN Cu #10 or #8

Key:

-  Socket
-  Direct Connection
-  KNX Switch

1 POWER PLAN

STAMP

DRAWN BY: Matt Breuer

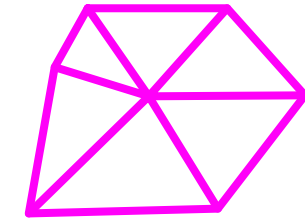
CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

DATE: 3 November 2014

SCALE: NO SCALE

EL-501



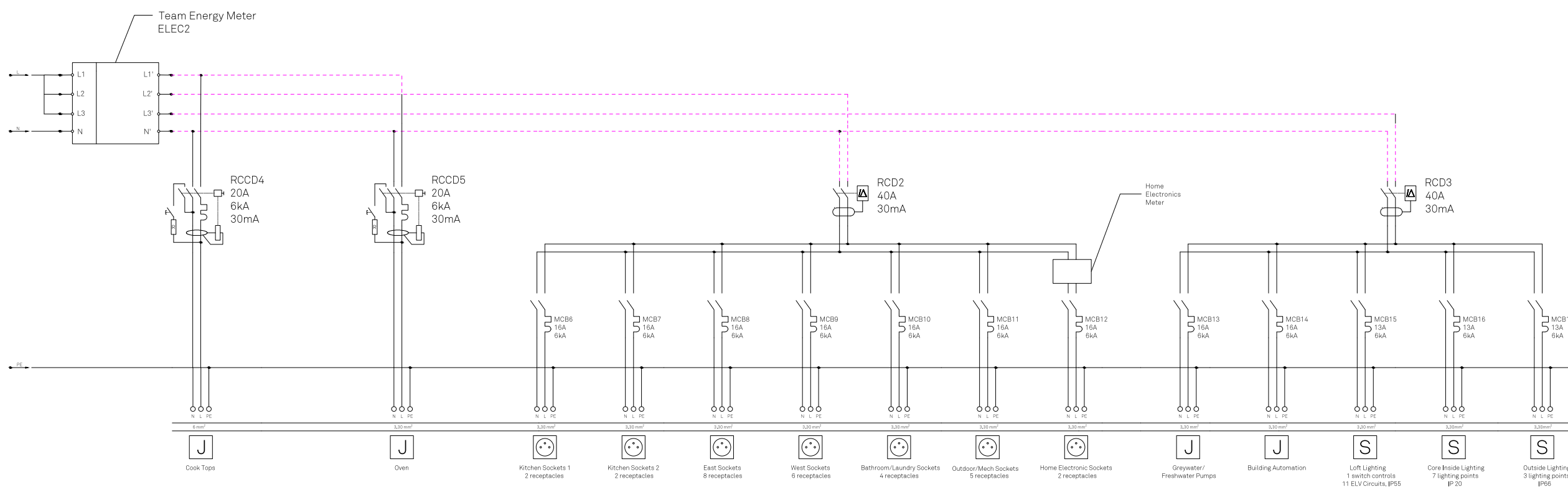
**TECHSTYLE
HAUS.**

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1 POWER PLAN CONTINUED

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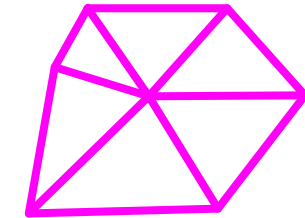
CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

DATE: 3 November 2014

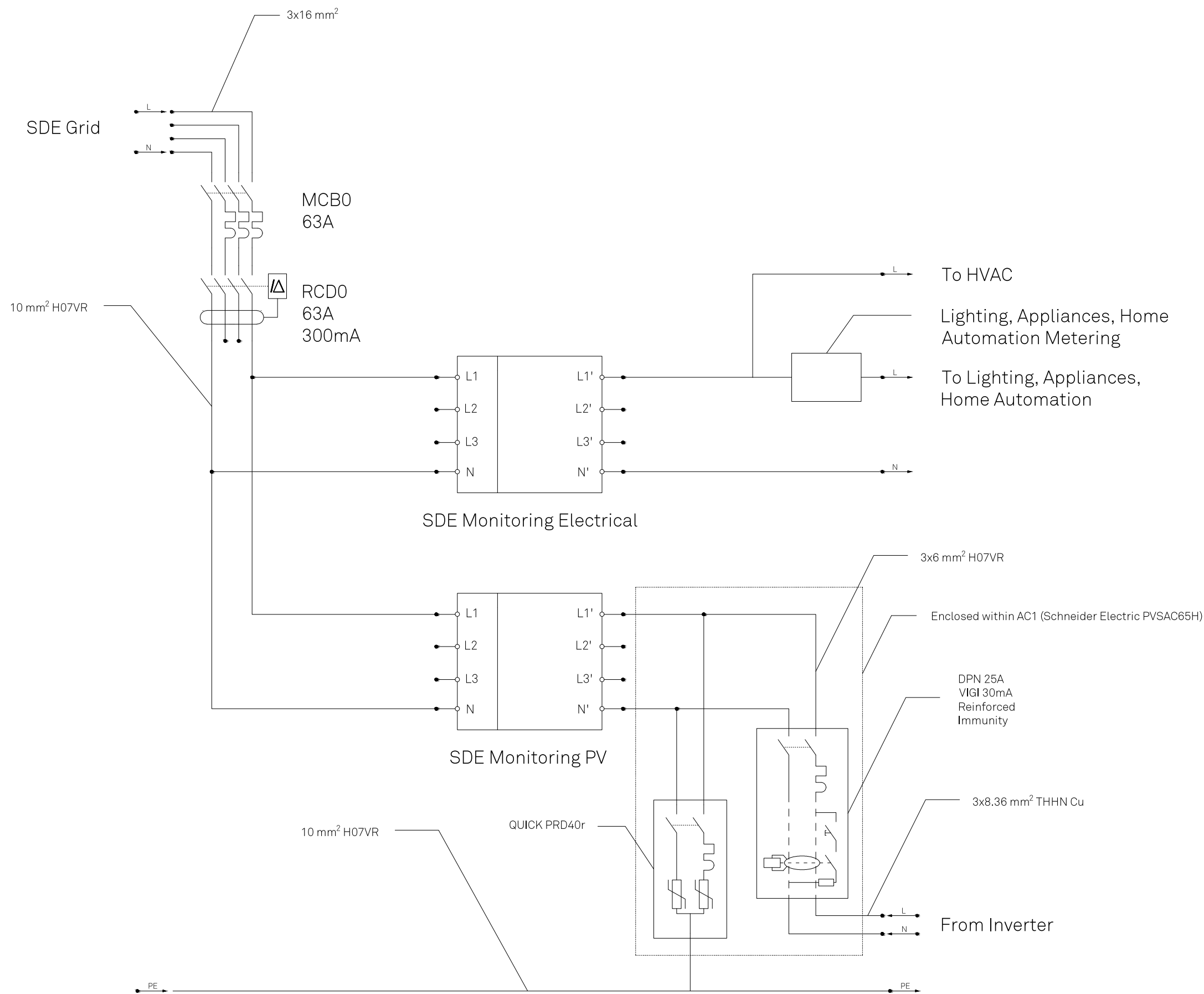
SCALE: NO SCALE

EL-502



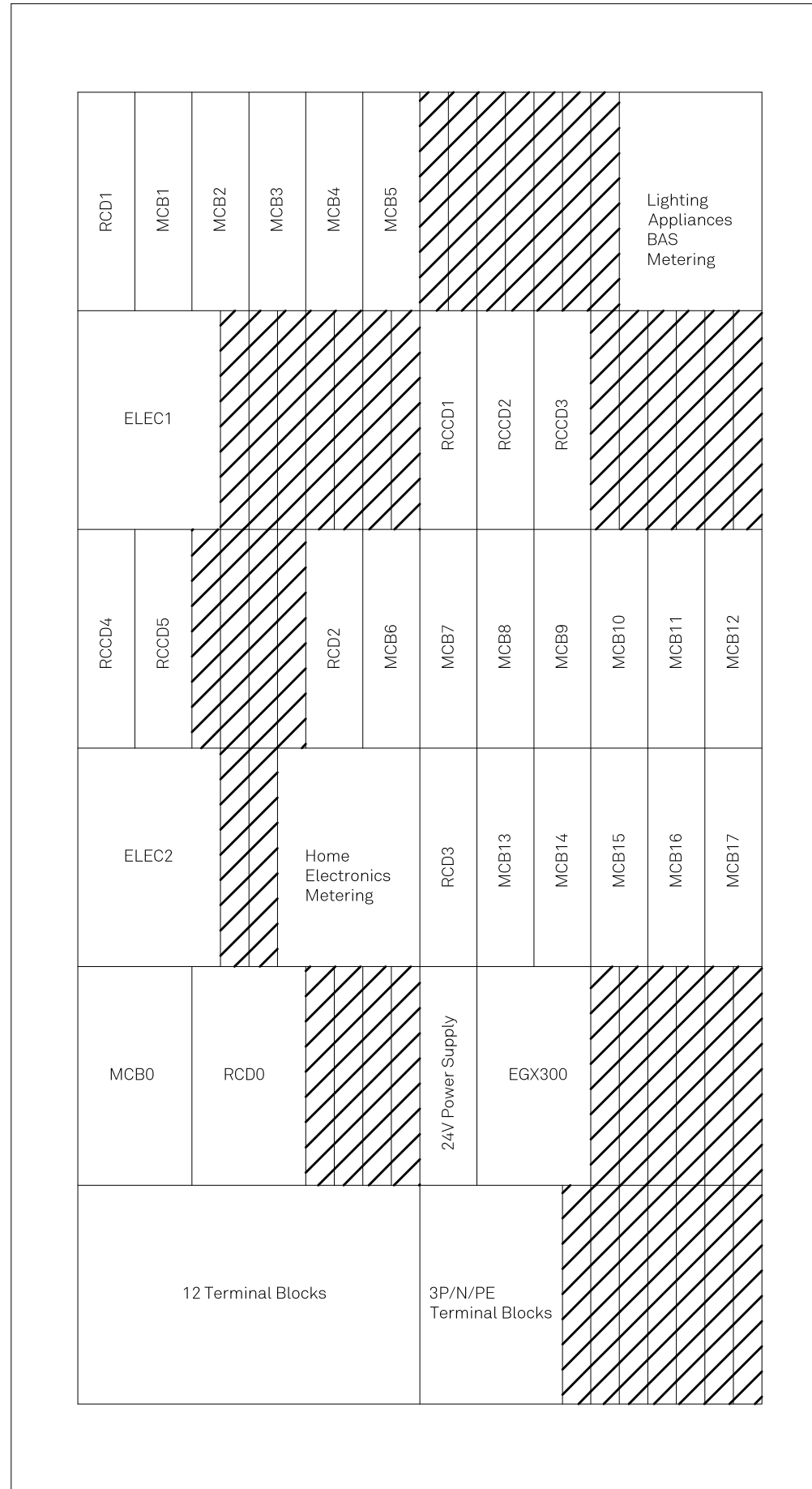
**TECHSTYLE
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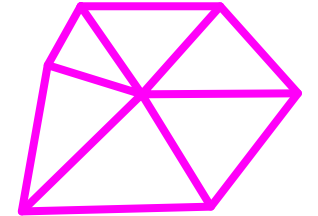
1 CIRCUIT DETAIL

EL-601



1

DISTRIBUTION BOX SECTION



**TECHSTYLE
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DRAWN BY: Matt Breuer

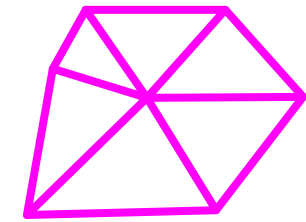
CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

DATE: 3 November 2014

SCALE: NO SCALE

EL-602



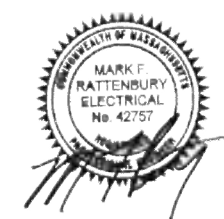
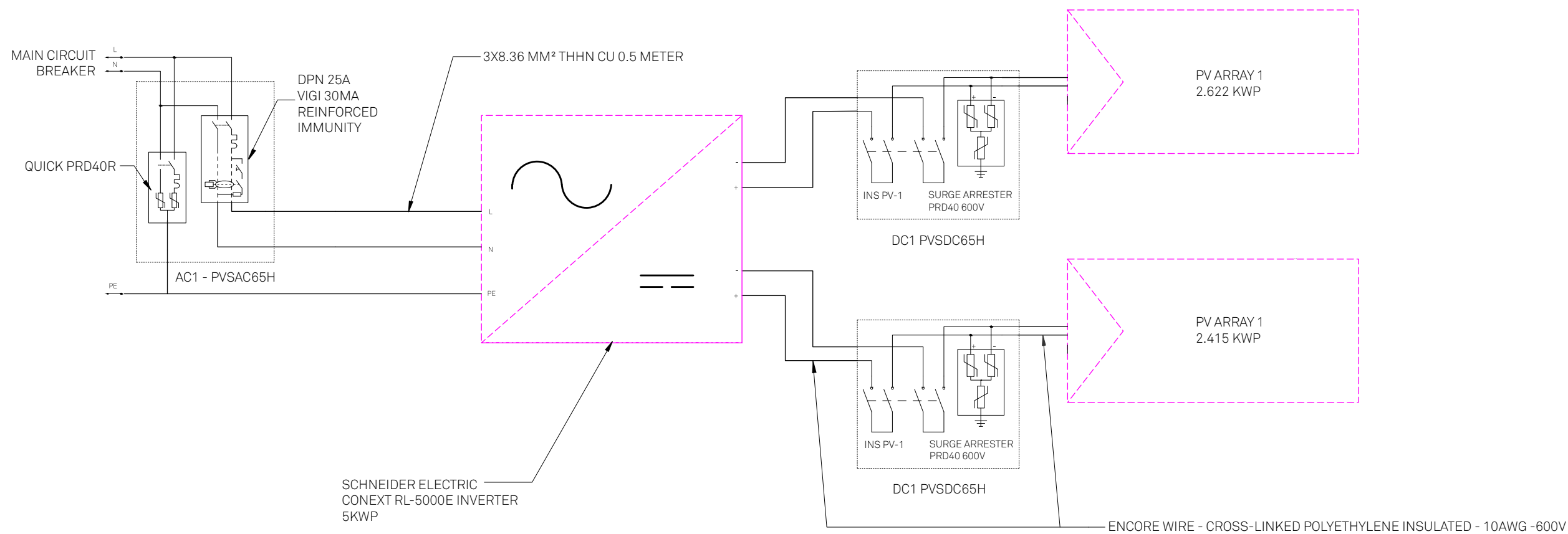
**TECHSTYLE
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STAMP

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CHECKED BY: Jonathan Knowles

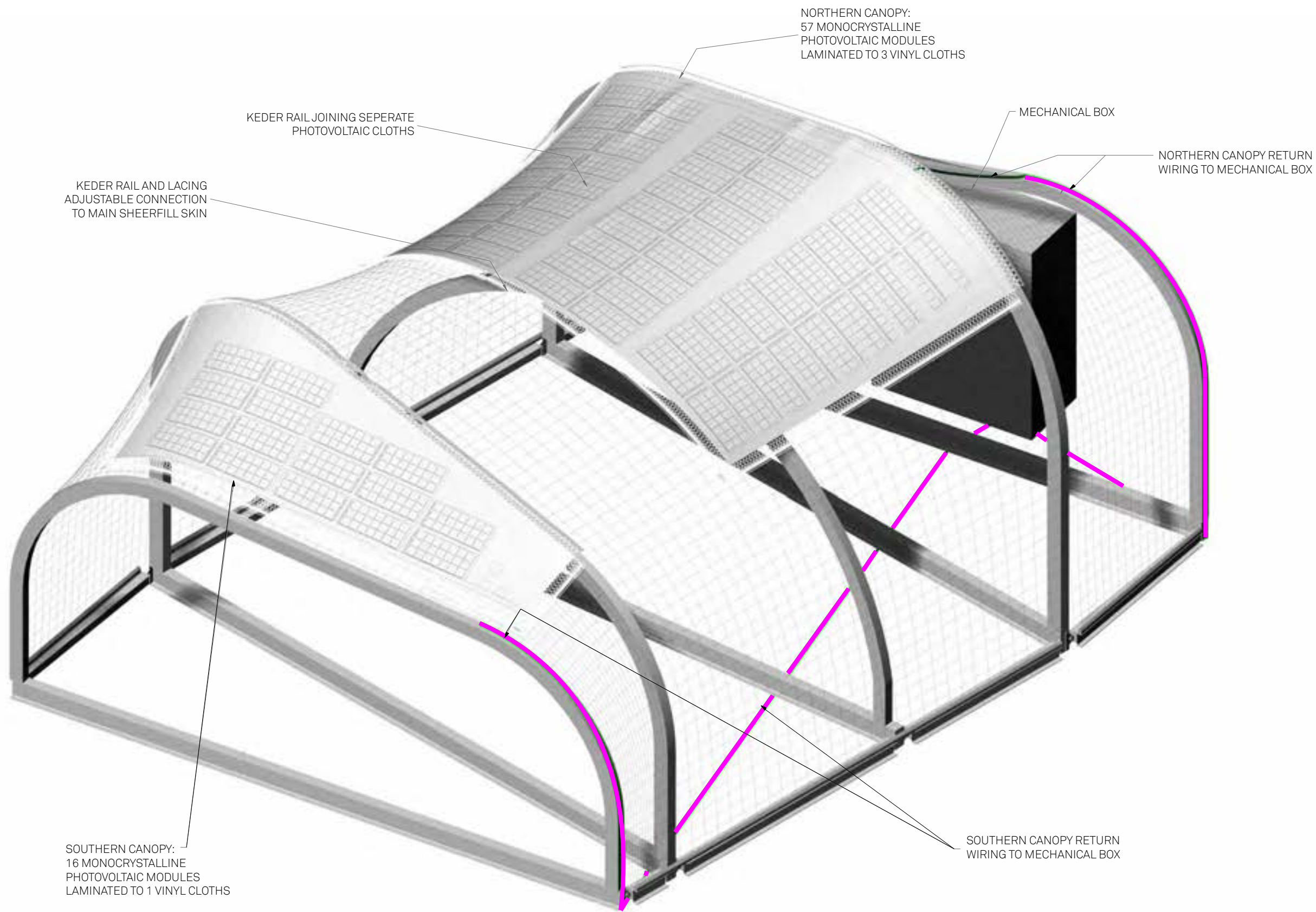
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DATE: 3 November, 2014

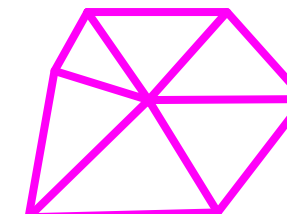
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1 PV SYSTEM GRID

PV-001



1 PHOTOVOLTAIC SYSTEM ISOMETRIC



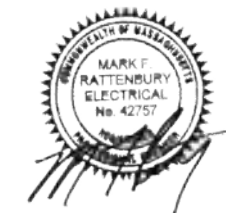
**TECHSTYLE
HAUS.**

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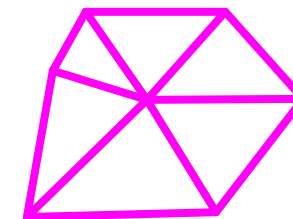
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DATE: 3 November, 2014

SCALE: N/A

PV-002



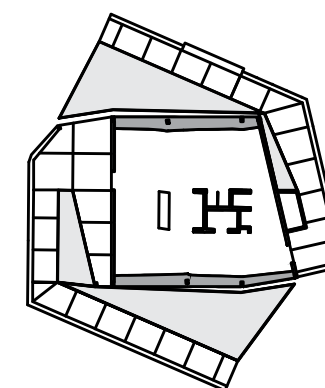
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SCALE: 1:50



PV-003

KEDER RAIL IN HEAT
SEALED SHEERFILL
POCKET

ADJUSTABLE LACING
JOINING KEDER TO
SOLAR CLOTH

WHITE VINYL FABRIC
ABOVE MAIN
SHEERFILL SKIN

TIGO MM-2ES75 POWER
OPTIMIZERS (3 PER CLOTH)

PVILION MANUFACTURED
SOLAR PANELS LAMINATED
TO VINYL FABRIC

ASSEMBLY A

ASSEMBLY B

MECHANICAL BOX

ASSEMBLY C

WIRING RETURN
POCKET RUNNING
MID-FIELD RIB1

ASSEMBLY D

WHITE VINYL FABRIC
ABOVE MAIN
SHEERFILL SKIN

ADJUSTABLE LACING
JOINING KEDER TO
SOLAR CLOTH

KEDER RAIL IN HEAT
SEALED SHEERFILL
POCKET

TIGO MM-2ES75 POWER
OPTIMIZERS

TIGO GATEWAY
WIRELESS
CONTROLLER

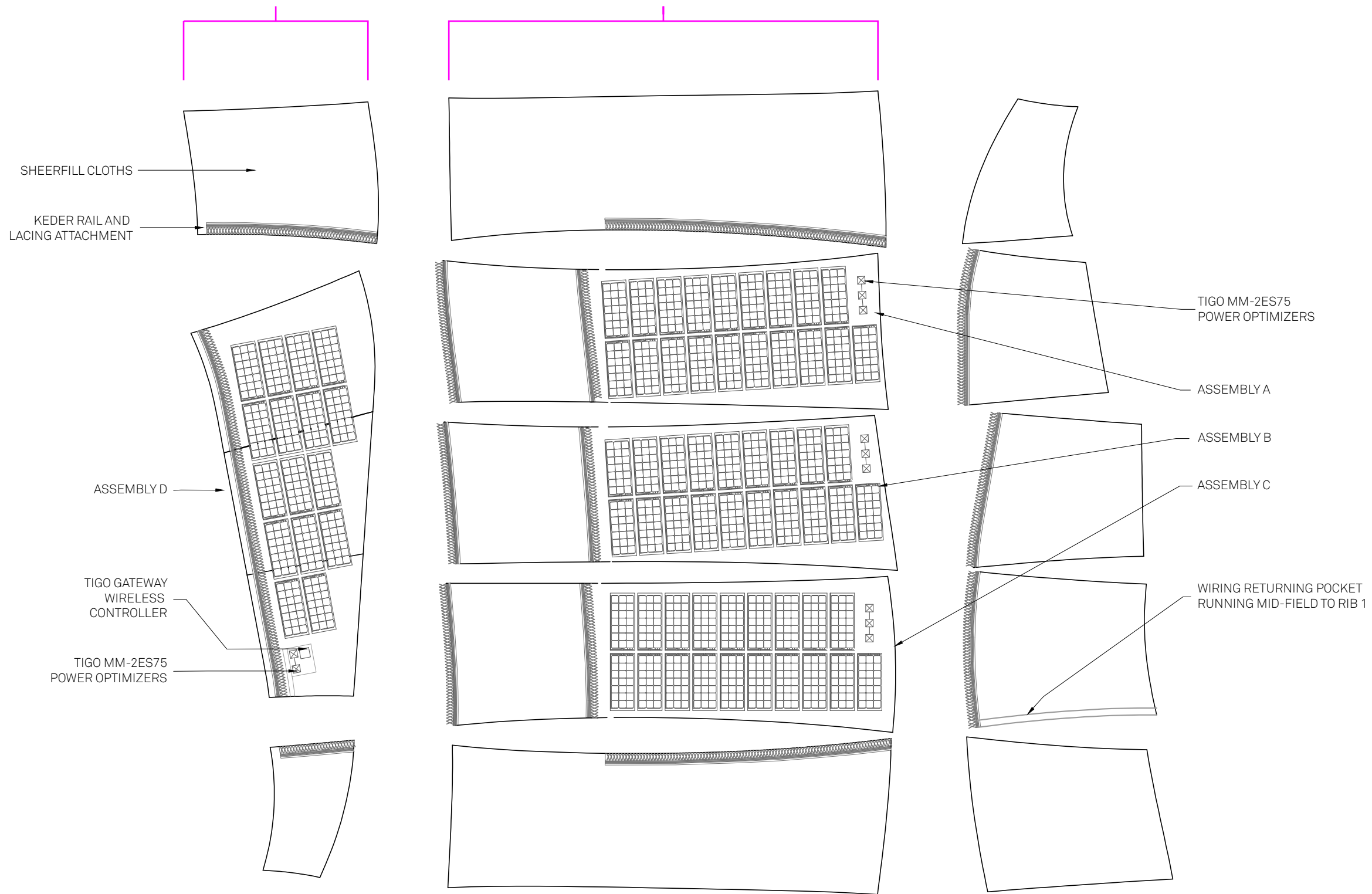
WIRING RETURN
POCKET ALONG RIB 5

1 PHOTOVOLTAIC SYSTEM ROOF PLAN

SEE PV-011 FOR ALL
WIRE IDENTIFICATIONS
AND RUN LENGTHS

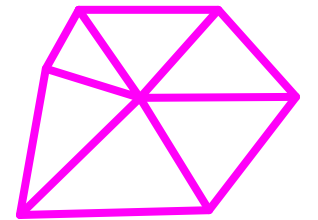
SOUTHERN CANOPY:
 - 1 VINYL CLOTH TAILORED TO SHEERFILL CLOTHS
 - 16 MODULES, 2 POWER OPTIMIZERS TOTAL

NORTHERN CANOPY:
 - 3 VINYL CLOTHS TAILORED TO SHEERFILL CLOTHS
 - 19 MODULES, 3 POWER OPTIMIZERS PER CLOTH
 - 57 MODULES, 9 POWER OPTIMIZERS TOTAL



1 PHOTOVOLTAIC SYSTEM CUT PATTERN

SEE PV-011 FOR ALL
 WIRE IDENTIFICATIONS
 AND RUN LENGTHS



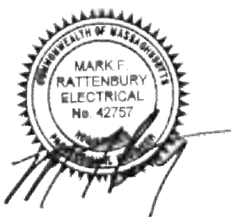
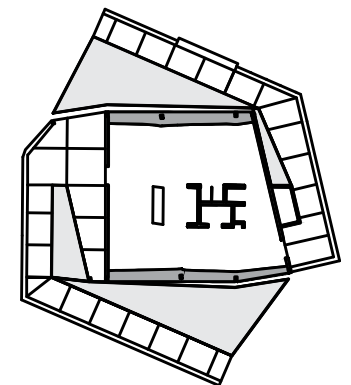
**TECHSTYLE
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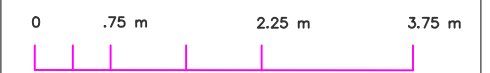
DRAWN BY: Sam Zeif

CHECKED BY: Jonathan Knowles

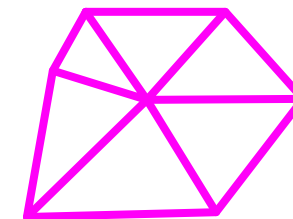
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DATE: 3 November 2014

SCALE: 1:75



PV-004



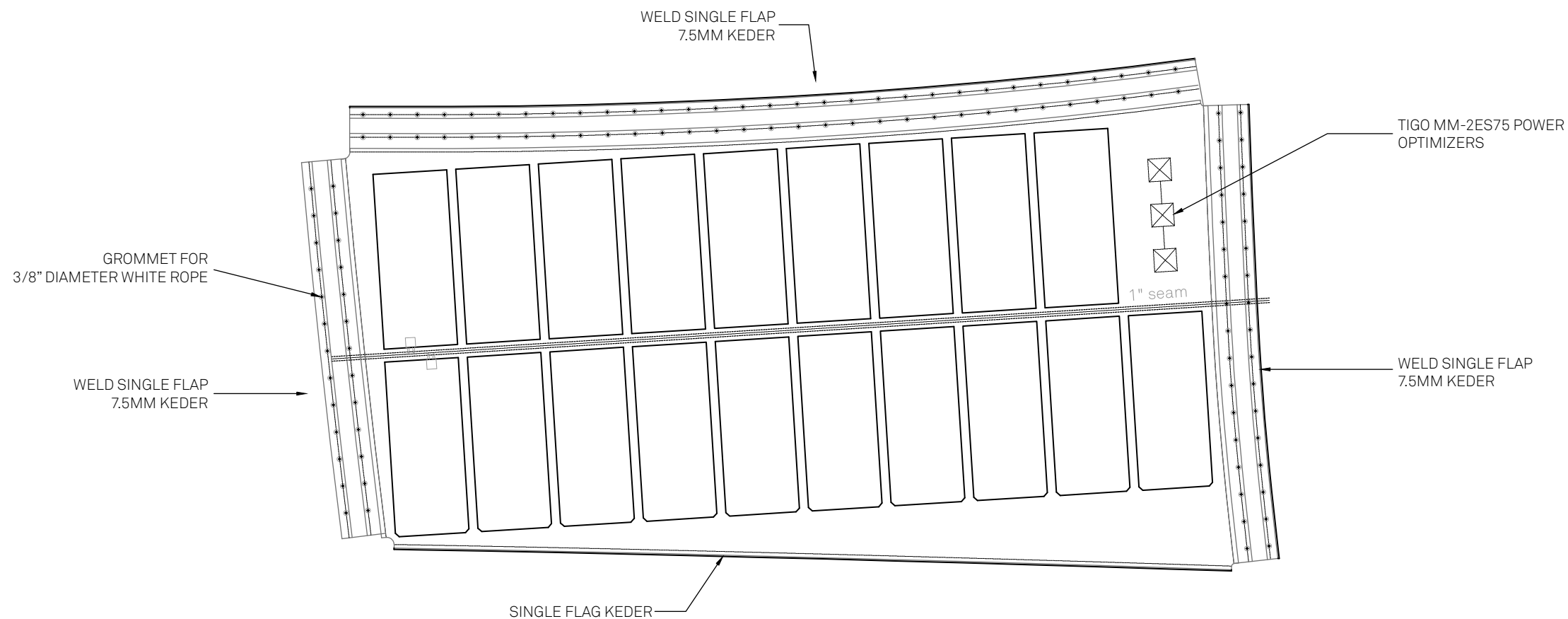
**TECHSTYLE
HAUS.**

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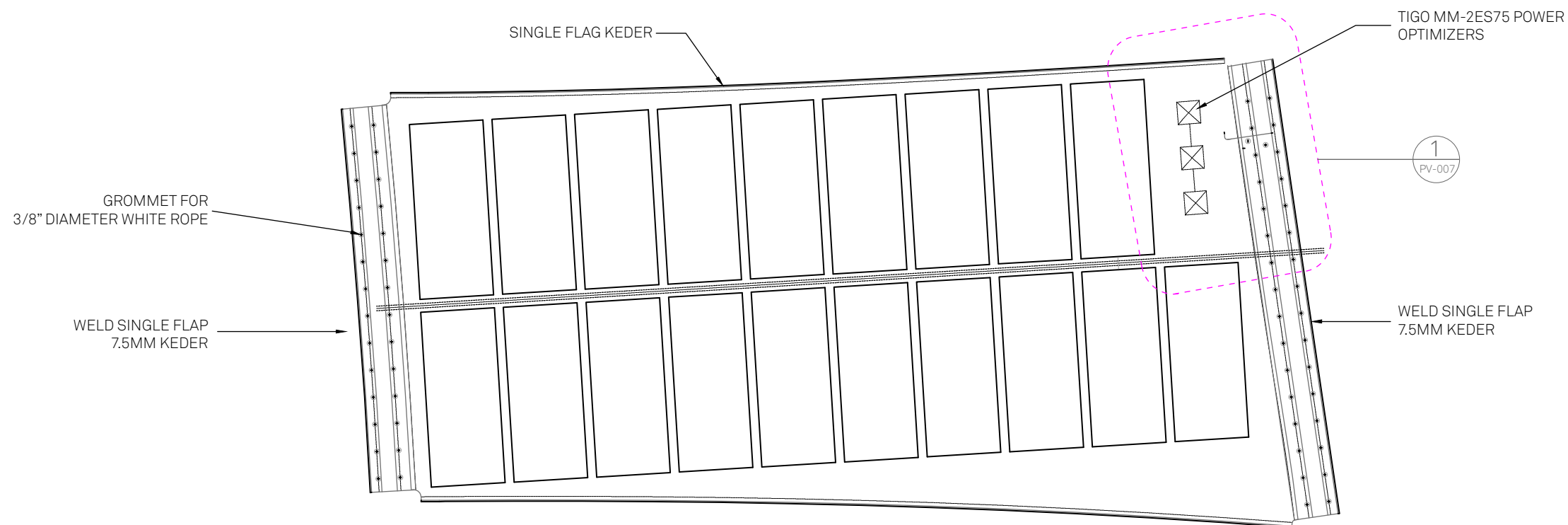
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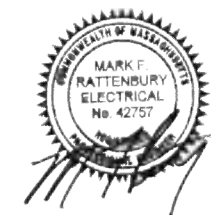


1 PVILION PHOTOVOLTAIC SYSTEM - ASSEMBLY A
PROPRIETARY PVILION TECHNOLOGY, PATENTS PENDING



2 PVILION PHOTOVOLTAIC SYSTEM - ASSEMBLY B
PROPRIETARY PVILION TECHNOLOGY, PATENTS PENDING

SEE PV-011 FOR ALL
WIRE IDENTIFICATIONS
AND RUN LENGTHS



STAMP

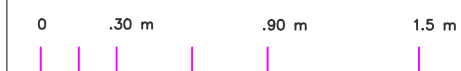
DRAWN BY: Sam Zeif

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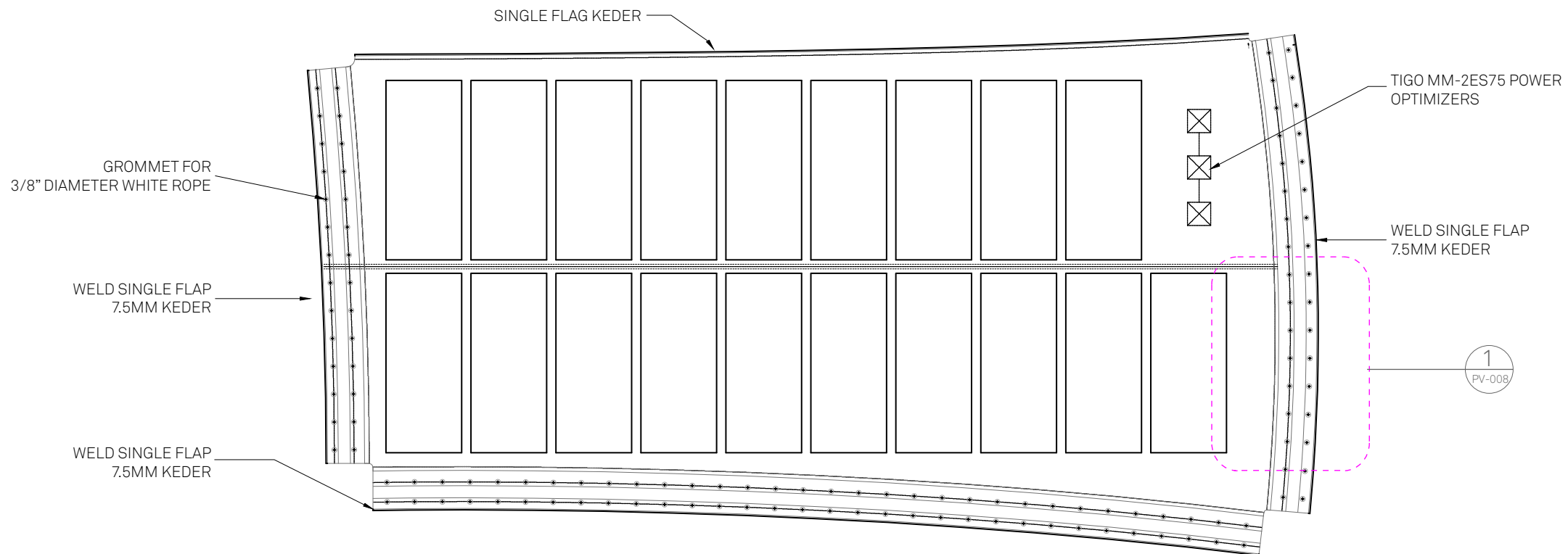
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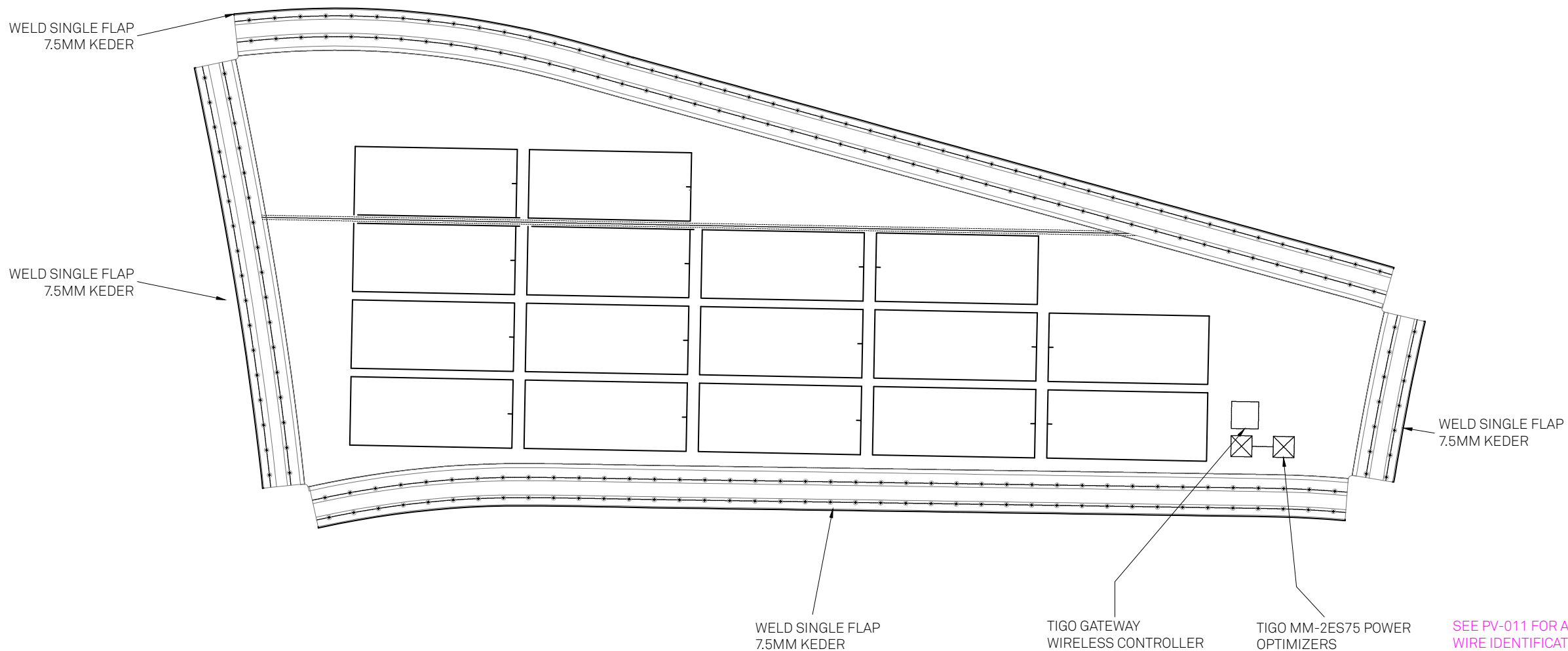
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PV-005



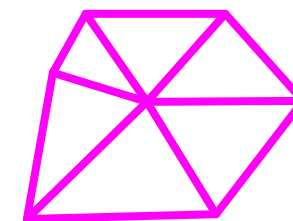
1 PVILION PHOTOVOLTAIC SYSTEM - ASSEMBLY C
 PROPRIETARY PVILION TECHNOLOGY, PATENTS PENDING



2 PVILION PHOTOVOLTAIC SYSTEM - ASSEMBLY D
 PROPRIETARY PVILION TECHNOLOGY, PATENTS PENDING



SEE PV-011 FOR ALL
 WIRE IDENTIFICATIONS
 AND RUN LENGTHS



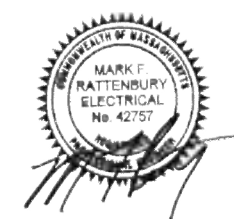
**TECHSTYLE
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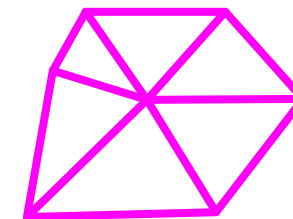
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DATE: 3 November, 2014

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PV-006



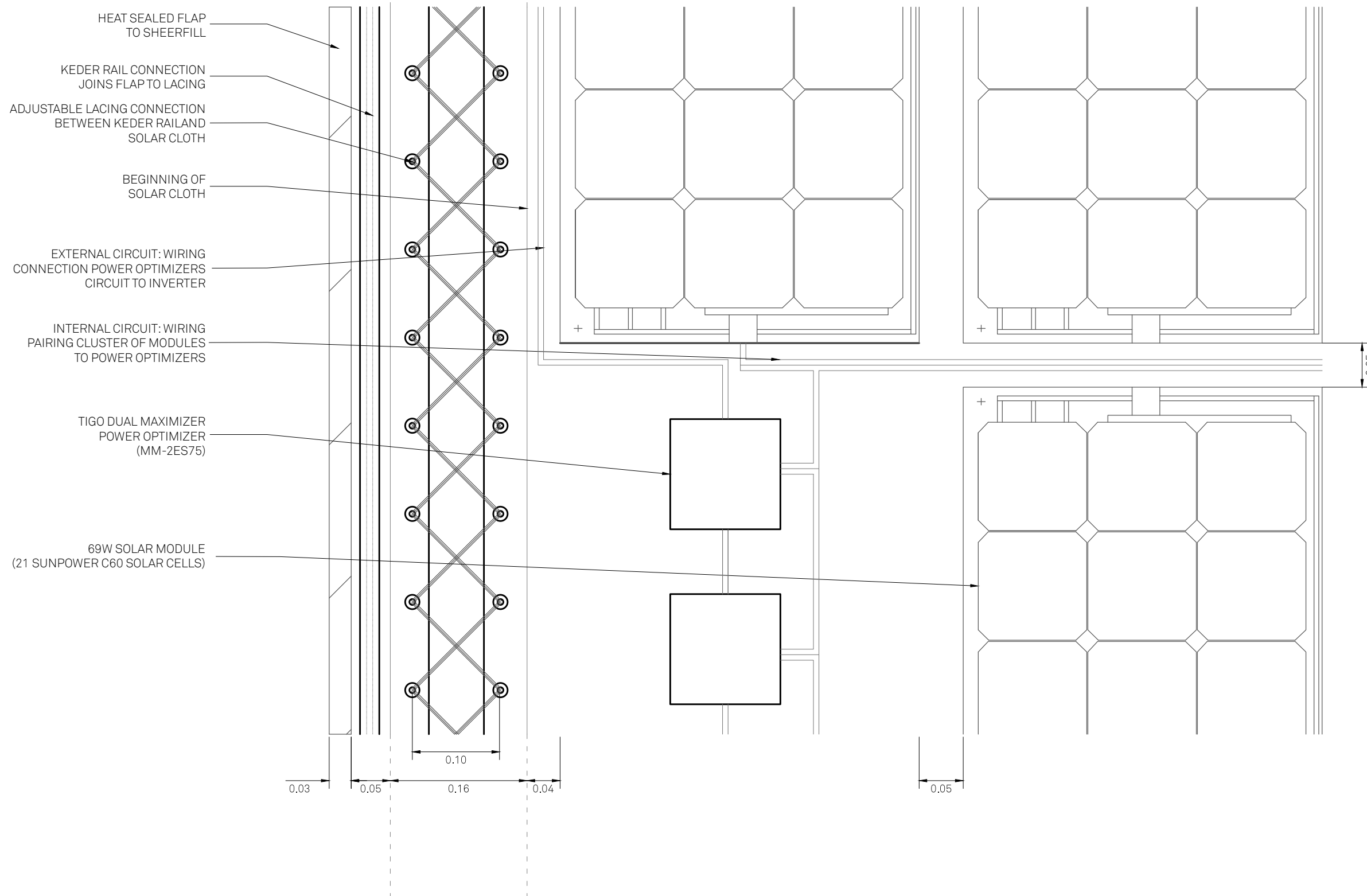
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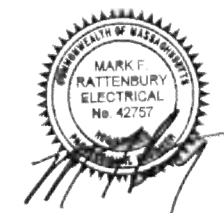
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SEE PV-011 FOR ALL WIRE IDENTIFICATIONS AND RUN LENGTHS

1 PHOTOVOLTAIC SYSTEM ATTACHMENT - PLAN DETAIL



STAMP

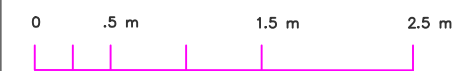
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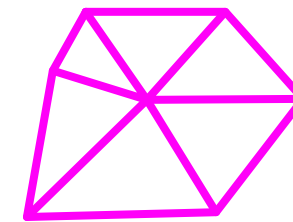
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PV-007



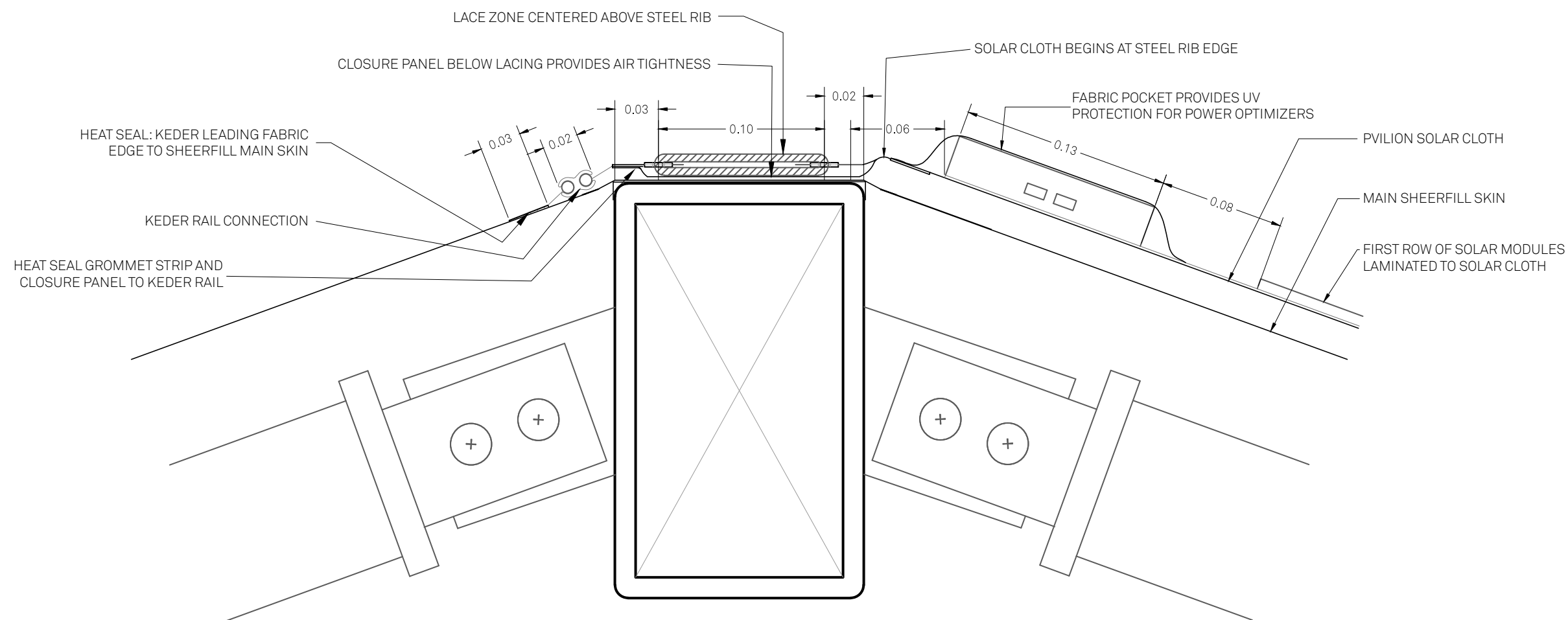
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HAUS.**

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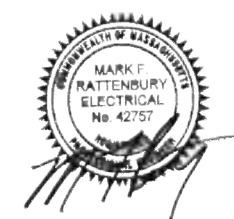
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1 PHOTOVOLTAIC SYSTEM ATTACHMENT - SECTION DETAIL



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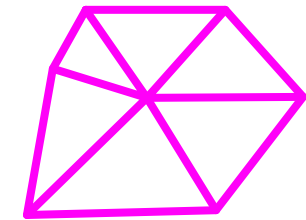
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PV-008



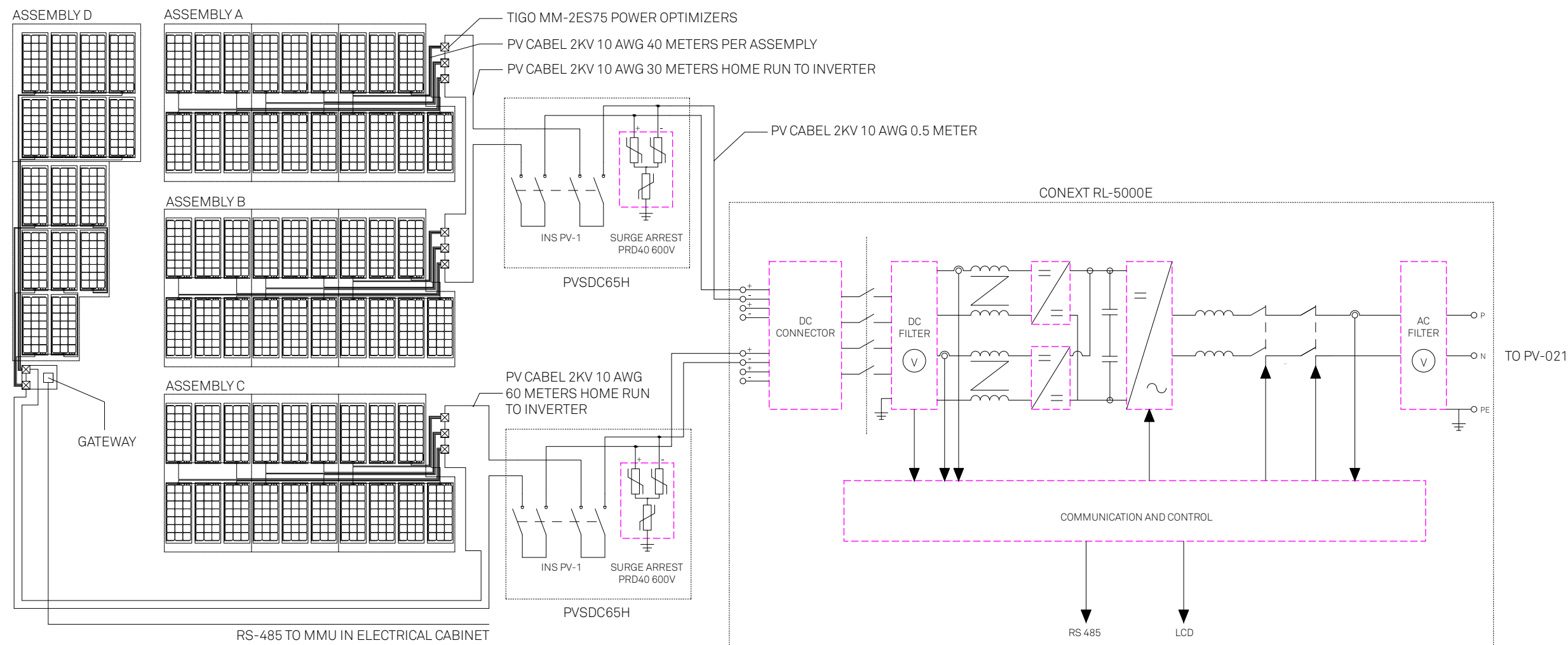
**TECHSTYLE
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1 PV SYSTEM DC CIRCUITS



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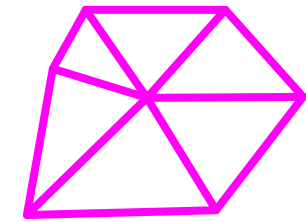
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STATUS: Deliverable #7

DATE: 3 November 2014

SCALE: N/A

PV-011



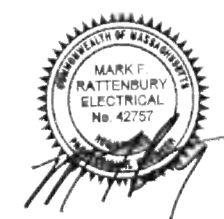
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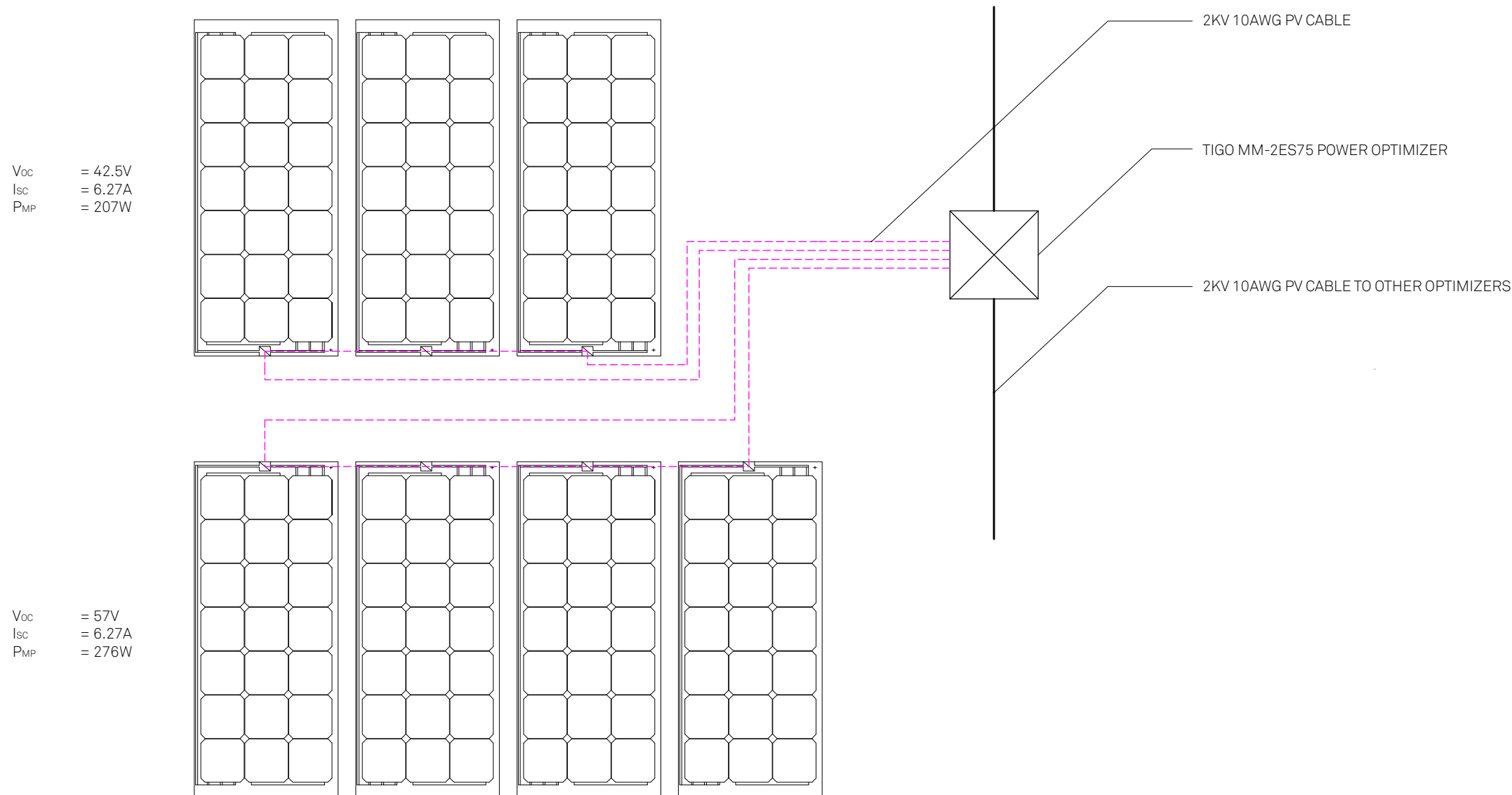
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STATUS: Deliverable #7

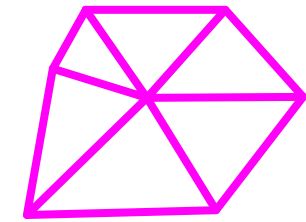
DATE: 3 November 2014

SCALE: N/A

PV-012



1 MODULE WIRING DETAIL



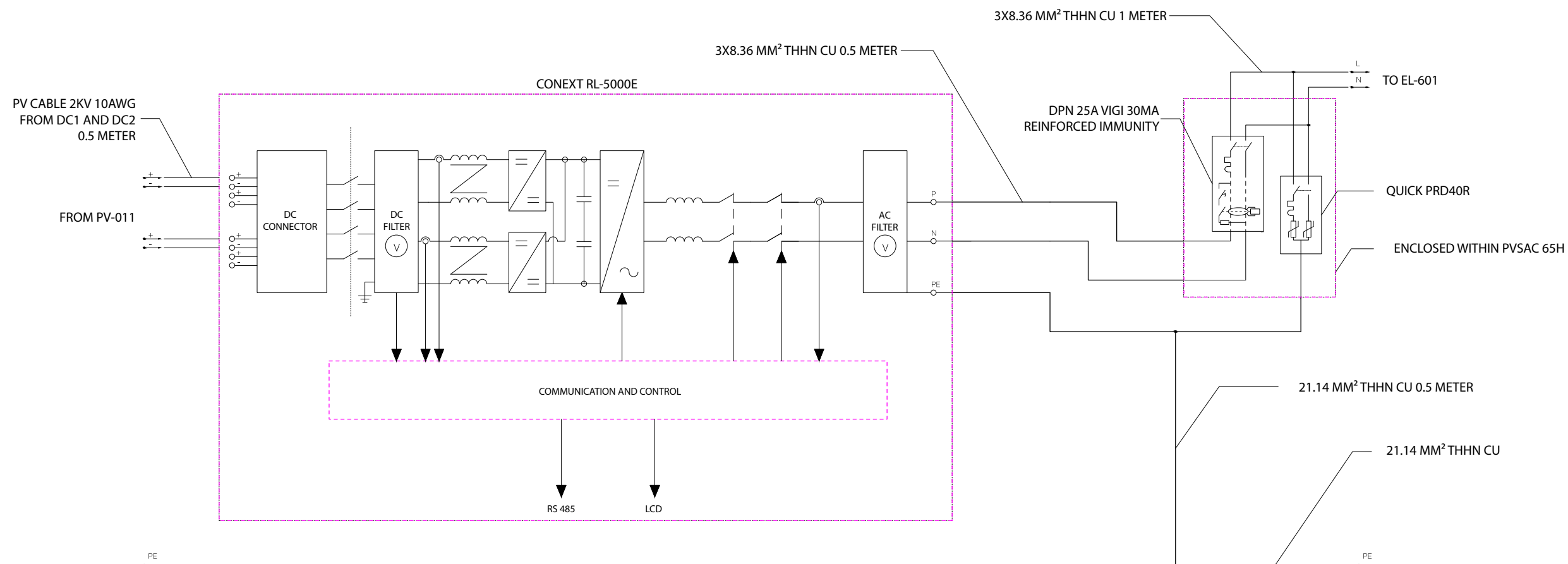
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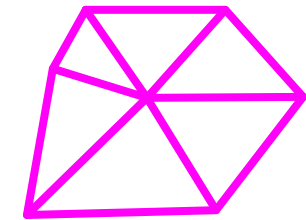
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DATE: 3 November 2014

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1 PV SYSTEM AC CIRCUITS

PV-021



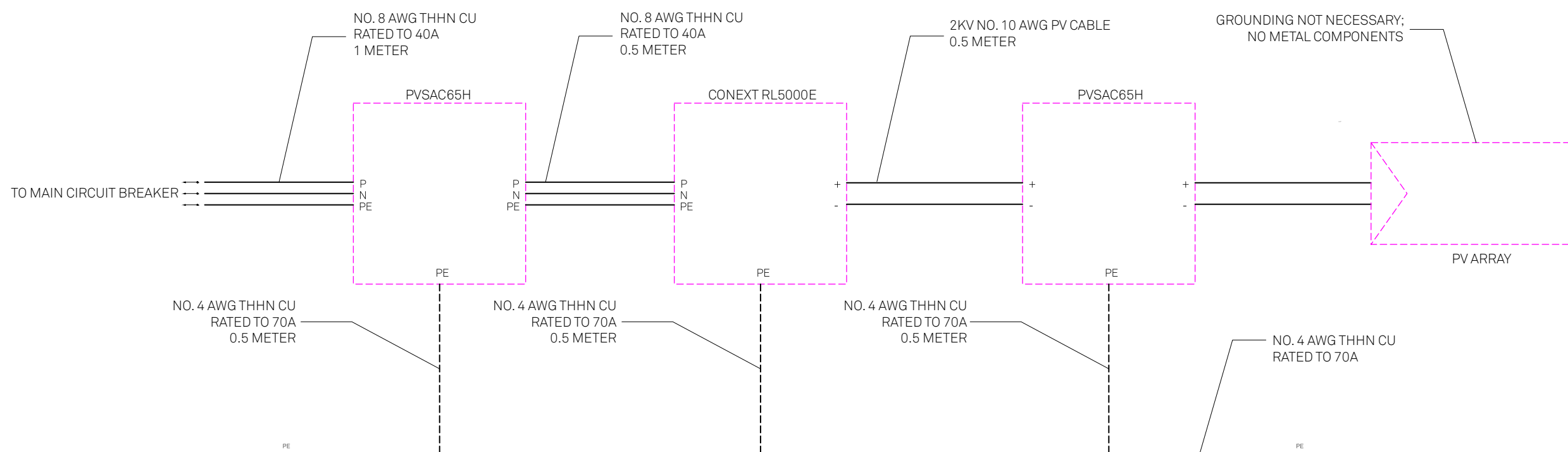
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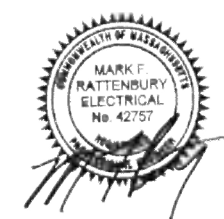
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1 GROUNDING SYSTEM



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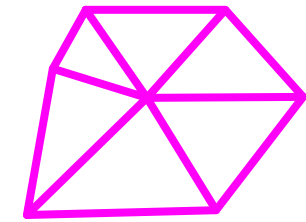
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DATE: 3 November 2014

SCALE: N/A

PV-031



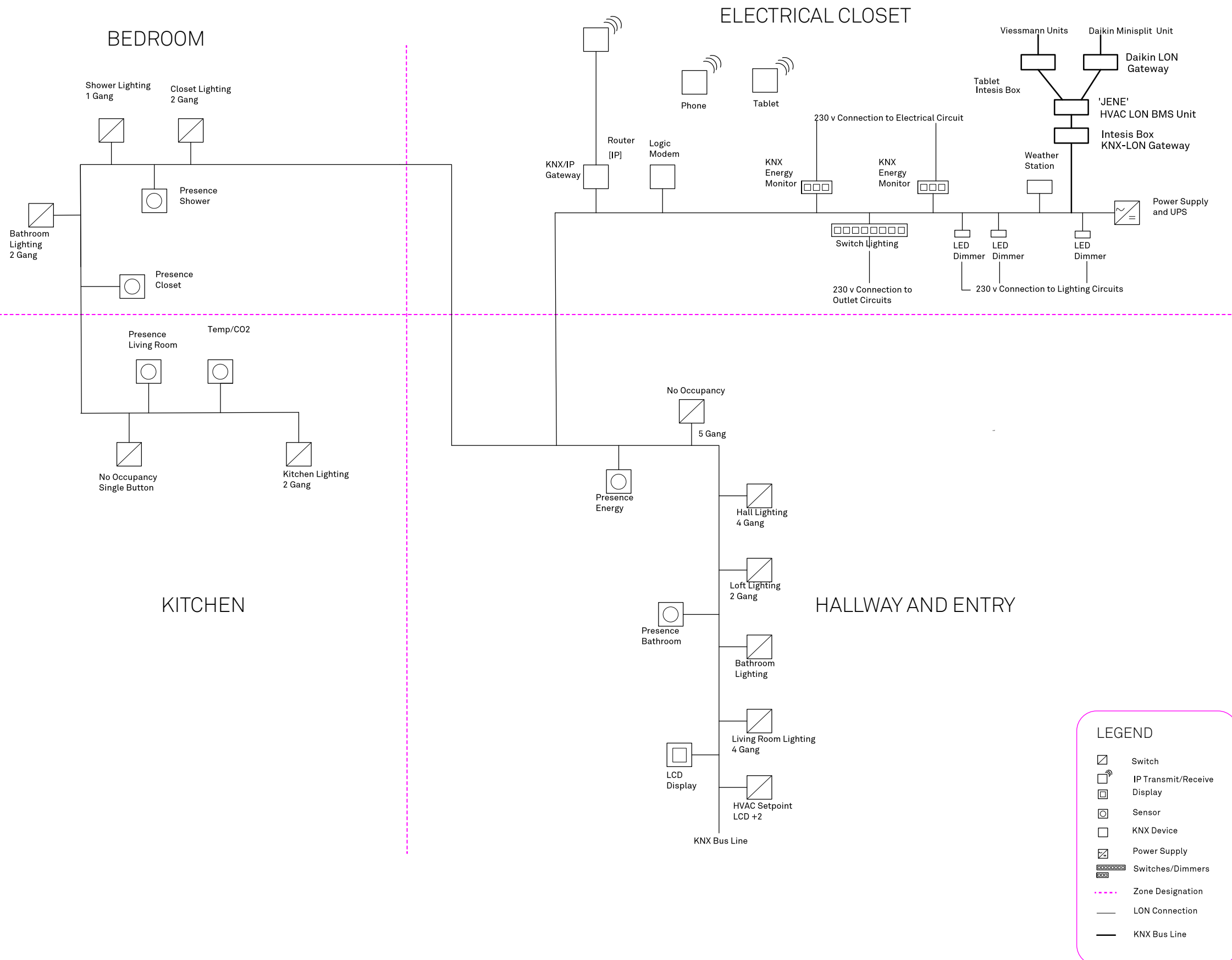
**TECHSTYLE
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1 CONTROL SYSTEMS SCHEMATIC

BAS-101

STAMP

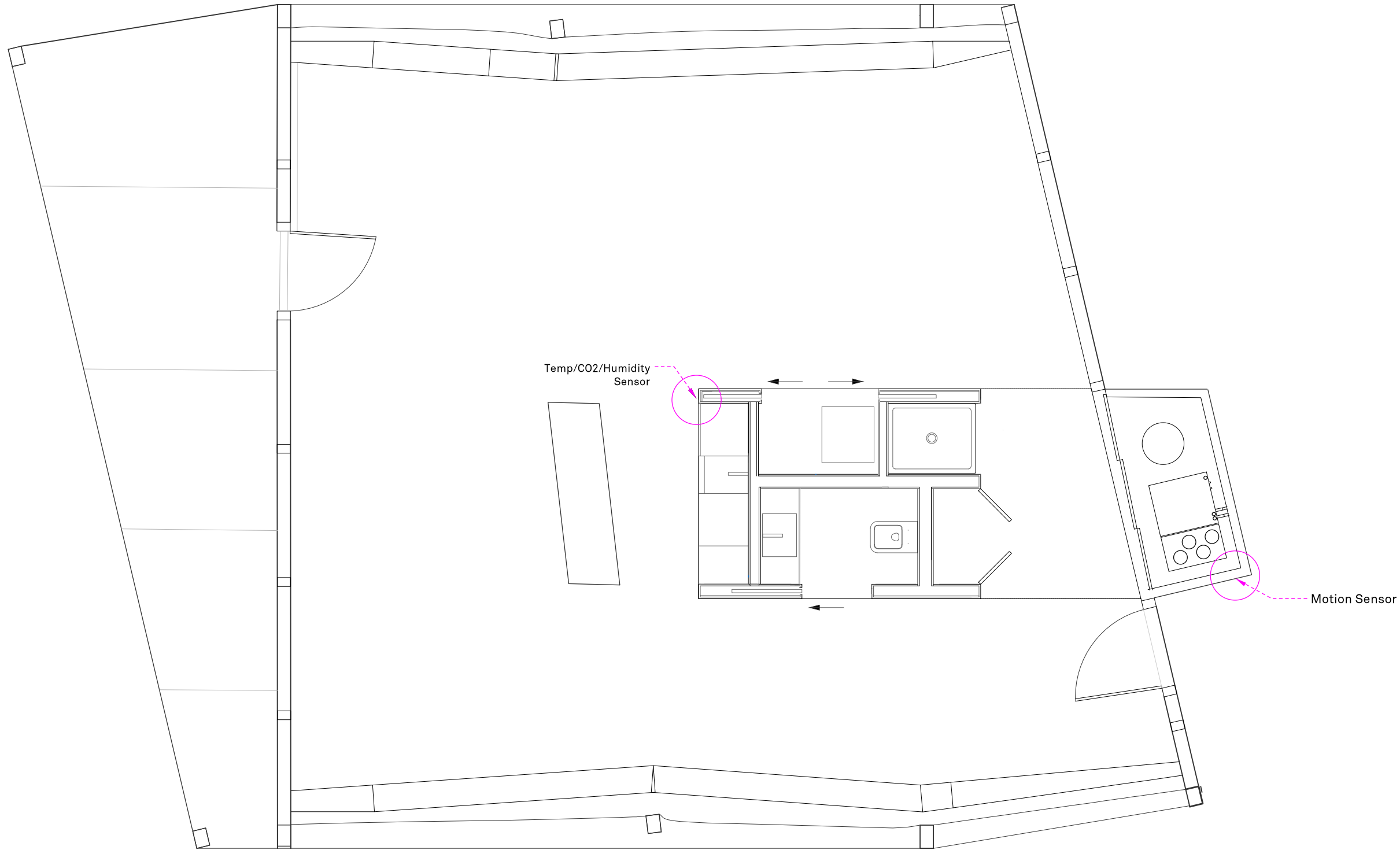
DRAWN BY: Gareth Rose & Dorian Junciewicz

CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

DATE: 3 November 2014

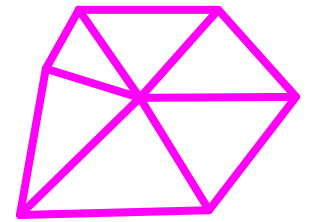
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1 SENSOR PLAN

SCHEDULE

Merten	Motion Sensor 630760
Merten	Temperature/ CO2/ Humidity Combined Sensor MEG6005-001



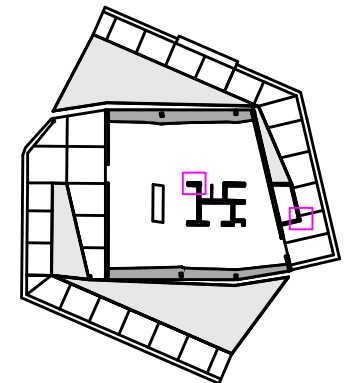
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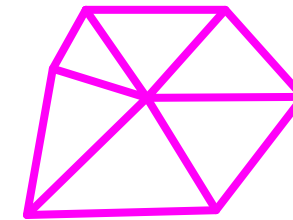
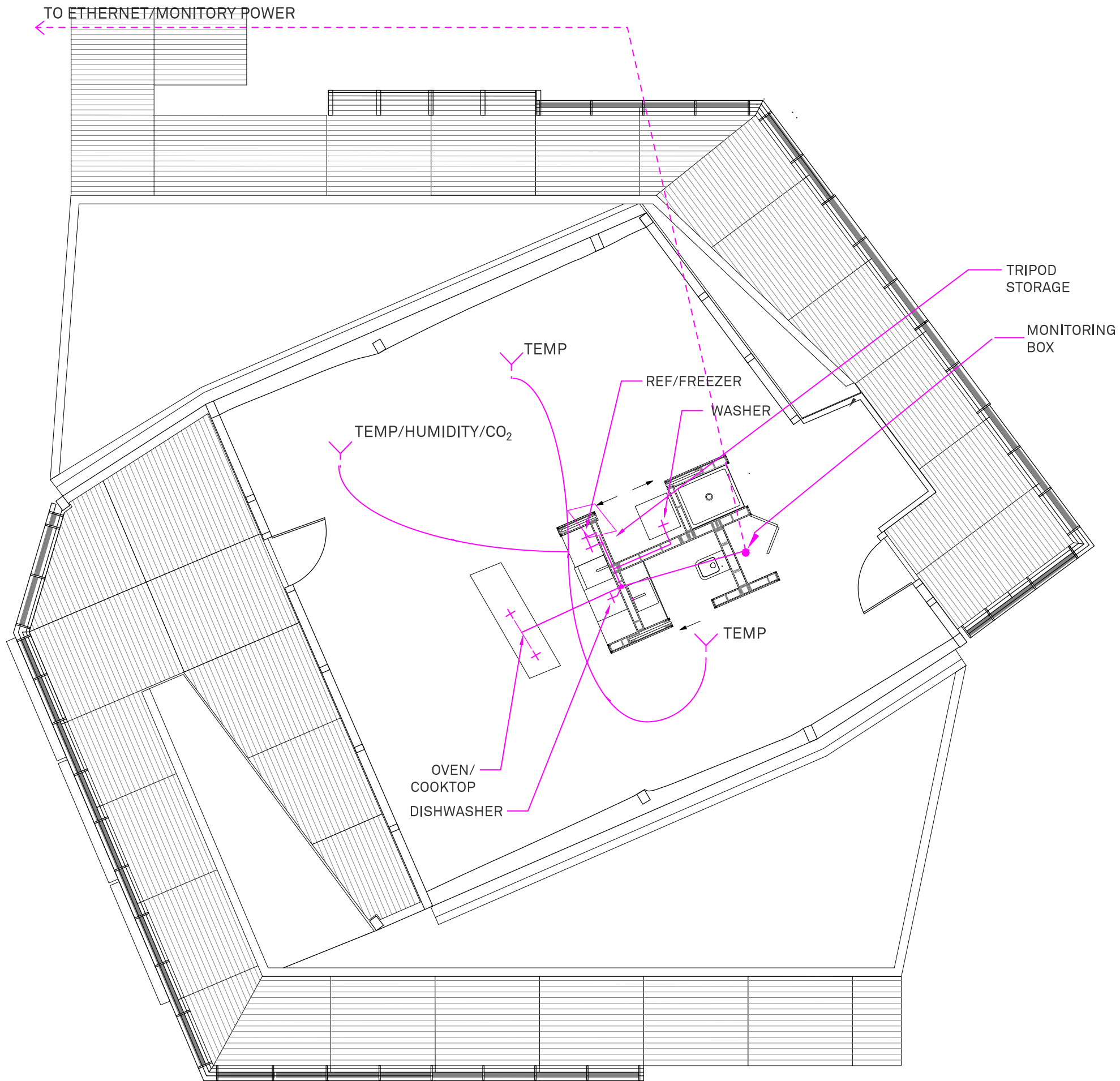
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BAS-201



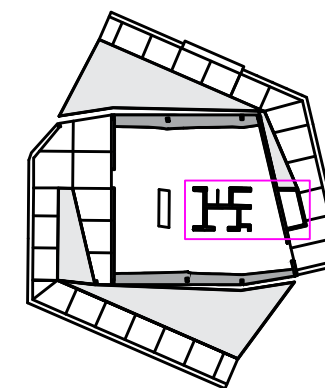
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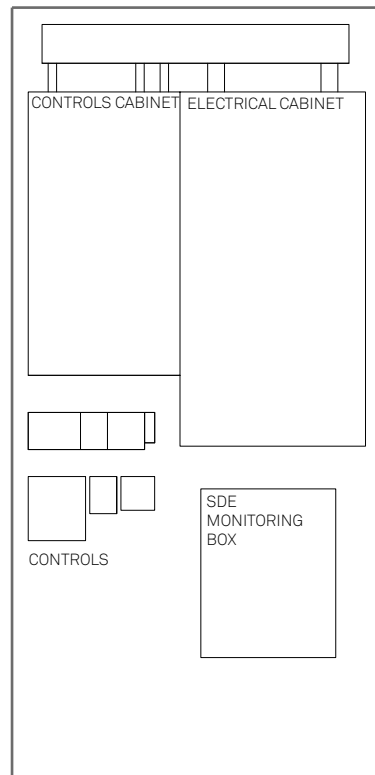
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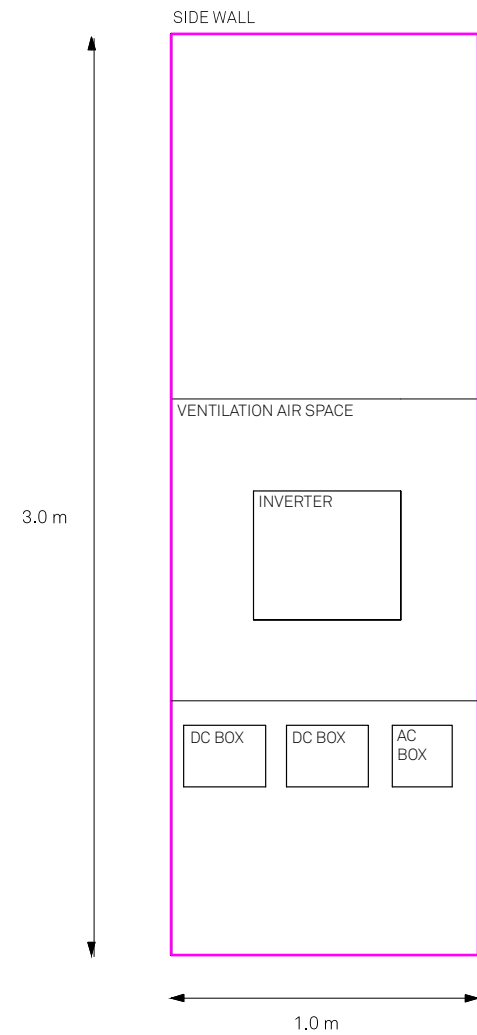


1 GENERAL MONITORING

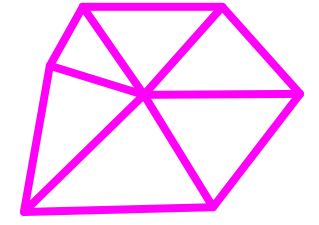
ID-001



① ELECTRICAL PANELS



② PV PANELS



**TECHSTYLE
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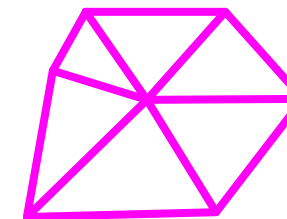
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SCALE: N/A

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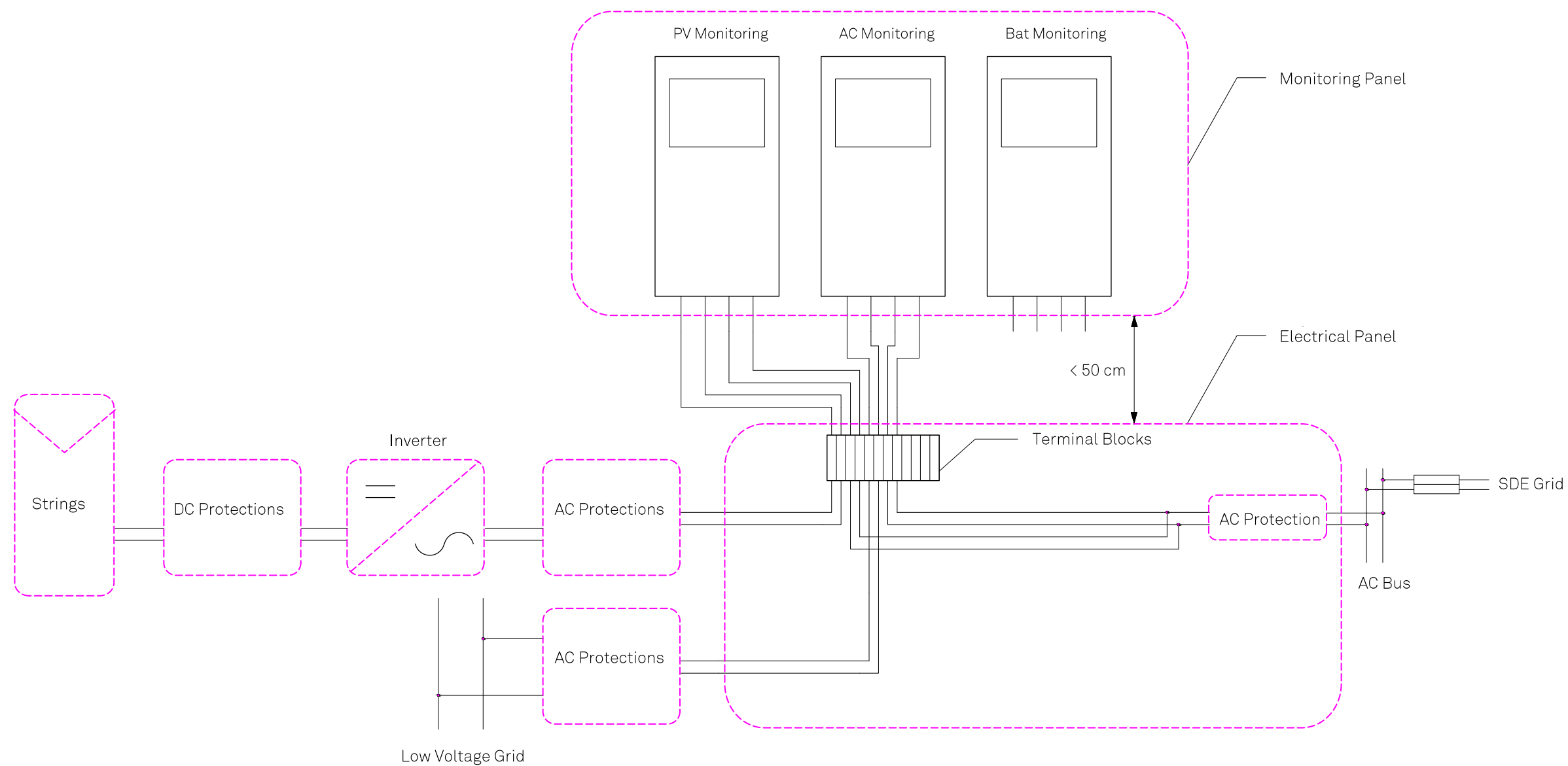


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1 ELECTRICITY METERS TOPOLOGY

STAMP

DRAWN BY: Matt Breuer

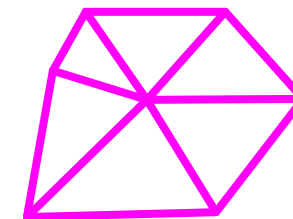
CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

DATE: 3 November 2014

SCALE: N/A

ID-003



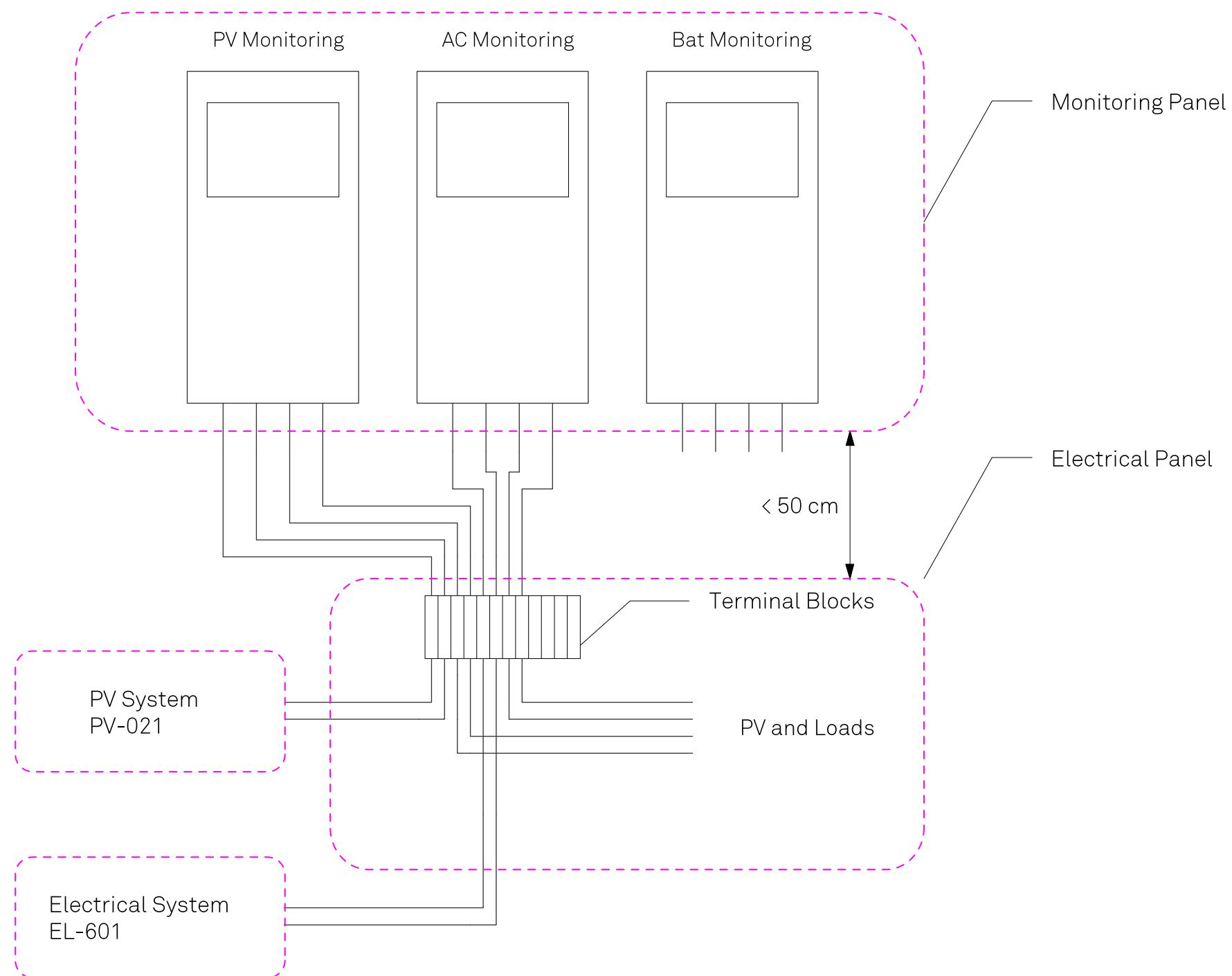
**TECHSTYLE
HAUS.**

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1 ELECTRICITY METERS CONNECTION

STAMP

DRAWN BY: Matt Breuer

CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

DATE: 3 November 2014

SCALE: N/A

ID-004

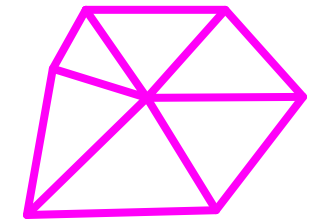
- ① Oven: Siemens HB75GB560F
Cooktop: Siemens EH375MV17E
Hood: De Dietrich DHD 1101X (w/ carbon filter)
- ② Refrigerator/freezer: Libherr ICP 3314
- ③ Dishwasher: Siemens SN66V09EU

- ④ Washer/ Dryer: Miele WT 2780 S
- ⑤ Electrical Panel and home monitoring panel
- ⑥ Computer: Fit PC 3 & Samsung S19D300NY

- ⑦ TV: Samsung UE28F4000



① HOUSE APPLIANCES

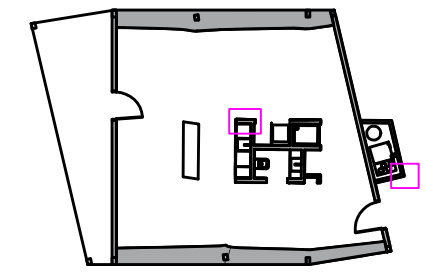


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STAMP

DRAWN BY: Gareth Rose & Dorian Junciewicz

CHECKED BY: Jonathan Knowles

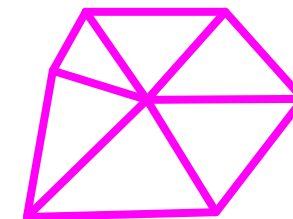
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DATE: 3 November 2014

SCALE: 1:50



ID-005



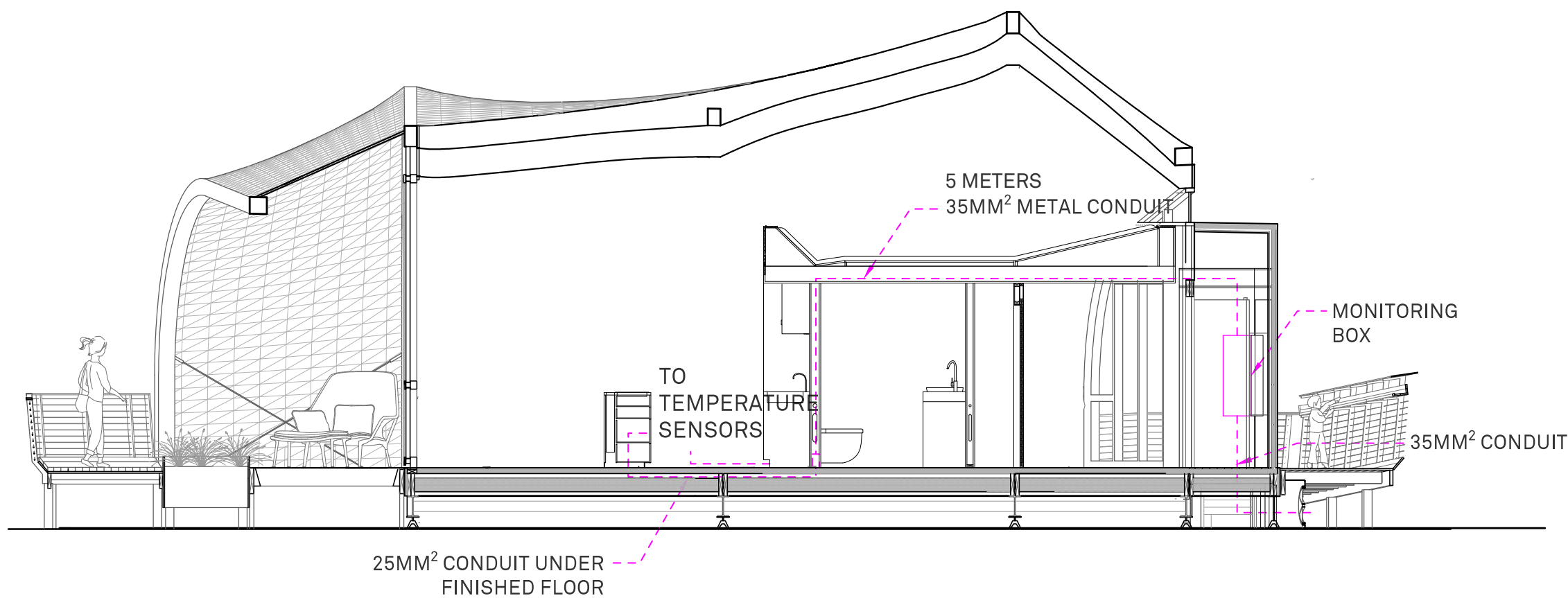
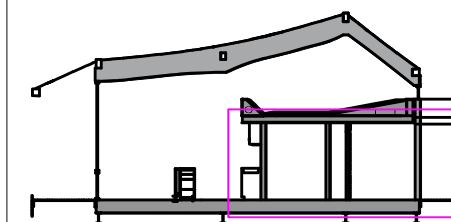
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1 GENERAL MONITORING - SECTION

STAMP

DRAWN BY: Matt Breuer

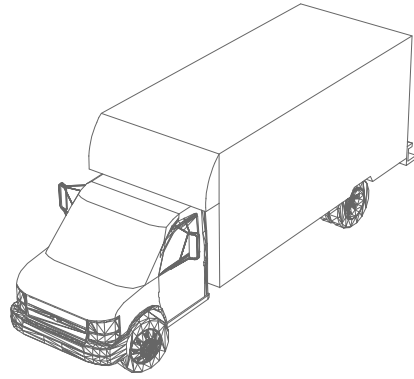
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STATUS: Deliverable #7

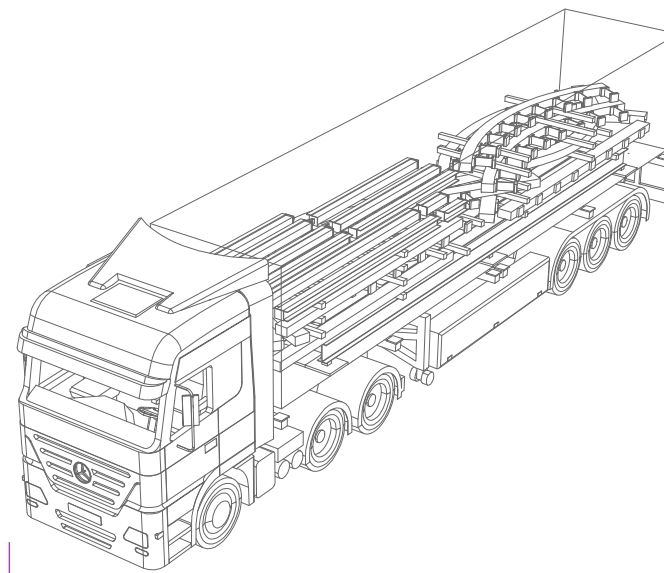
DATE: 3 November 2014

SCALE: N/A

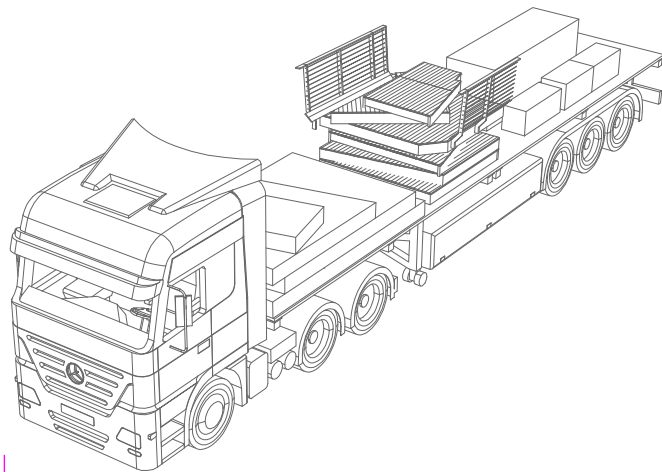
ID-006



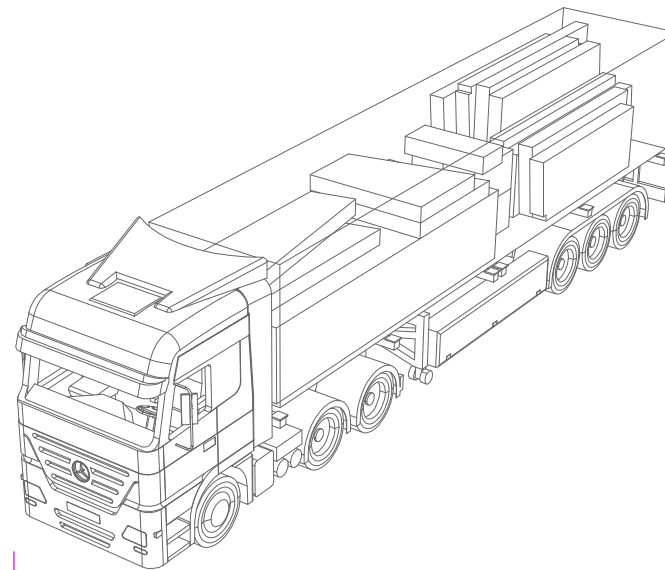
TRUCK N O. 1
 TOOLS
 FOOTING S
 FIRE EXTINGUISH ERS
 Load: 910 kg



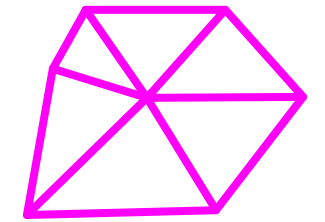
TRUCK N O. 2
 STEEL
 Load: 8,620 kg



TRUCK N O. 3
 FLOOR PALLETS
 SOUTH DECK
 MISCELLANEOUS
 Load: 1,810 kg



TRUCK N O. 4
 FLOOR PALLETS
 SHEERFILL MEMBRANE
 BIRDAIR HARDWARE
 Load: 4,500 kg



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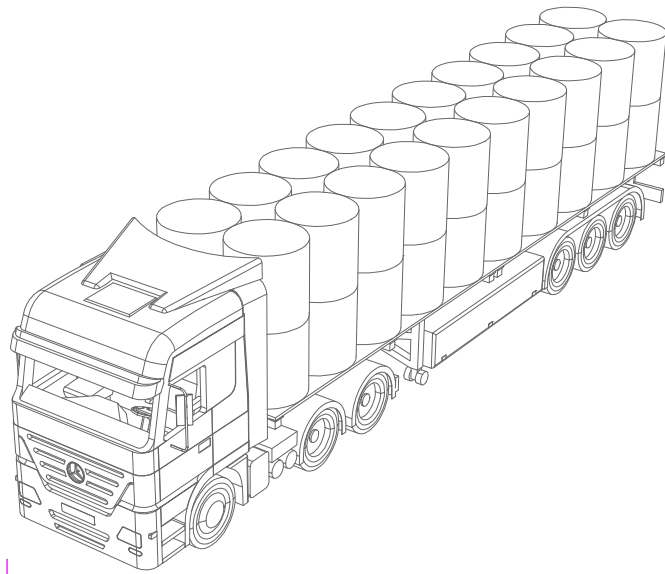
DRAWN BY: Matt Osborn

CHECKED BY: Jonathan Knowles

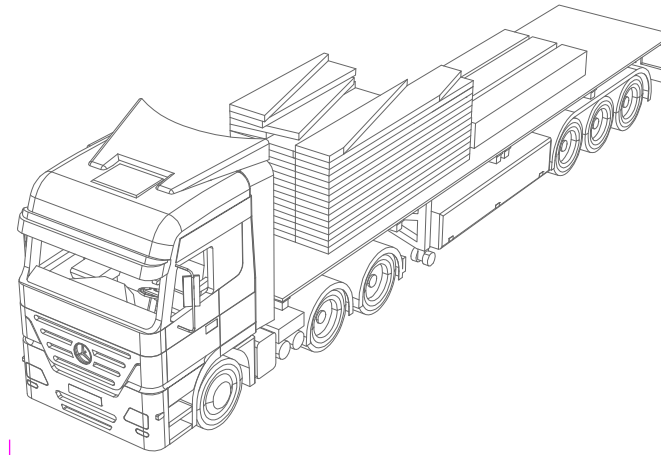
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DATE: 3 November 2014

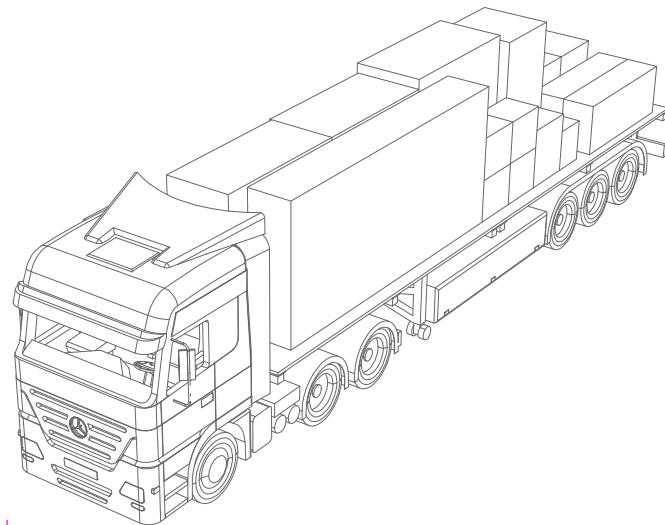
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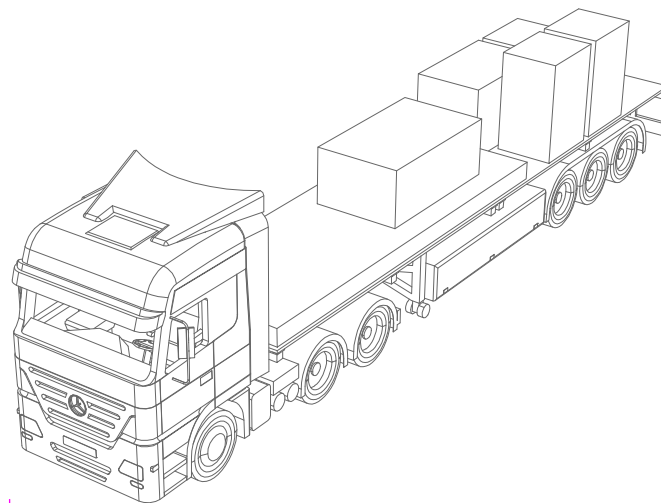
TRUCK N O. 5
INSULATION
Load: 1,560 kg



TRUCK N O. 6
FINISH FLOOR
ALUMINUM FRAME
Load: 1,100 kg

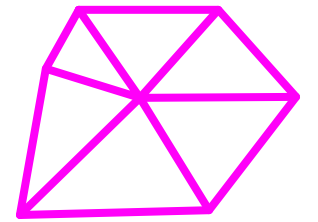


TRUCK N O. 7
CORE
Load: 3,180 kg



TRUCK N O. 8
SOLAR ARRAY
CABINETS
RIGID INSULATION
Load: 1,360 kg

1 TRUCK SHIPMENTS



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DRAWN BY: Matt Osborn

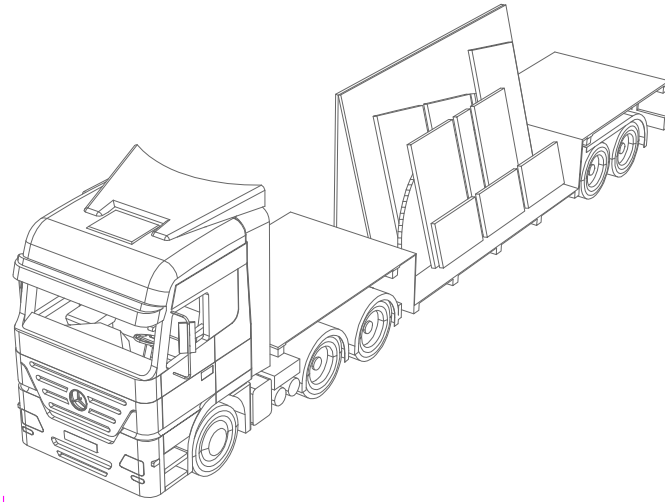
CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

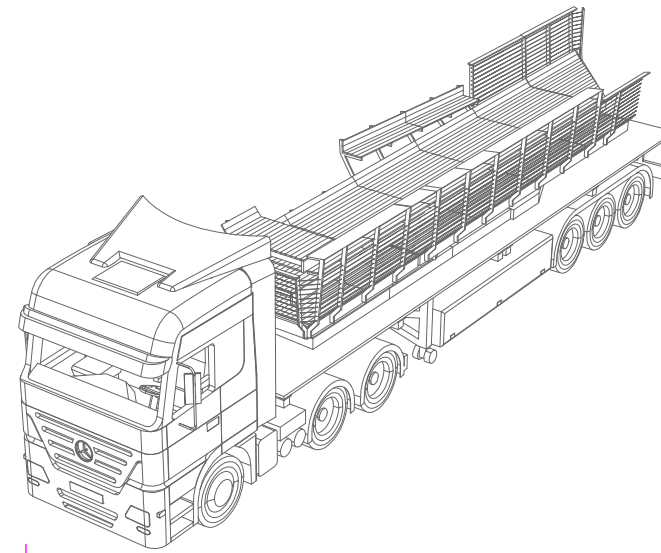
DATE: 3 November 2014

SCALE: N/A

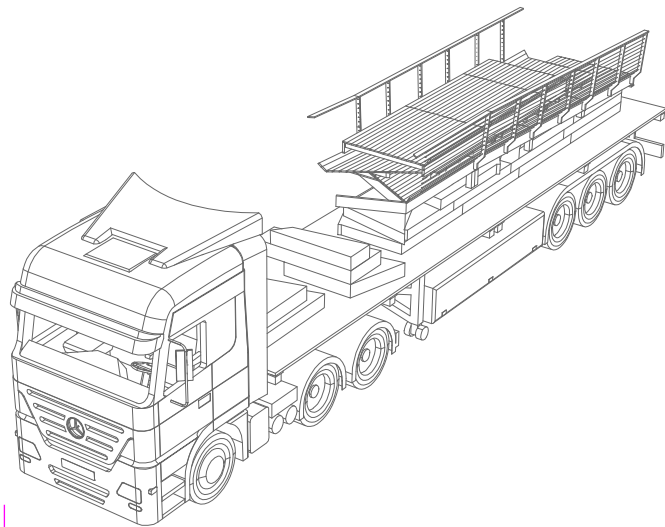
SO-002



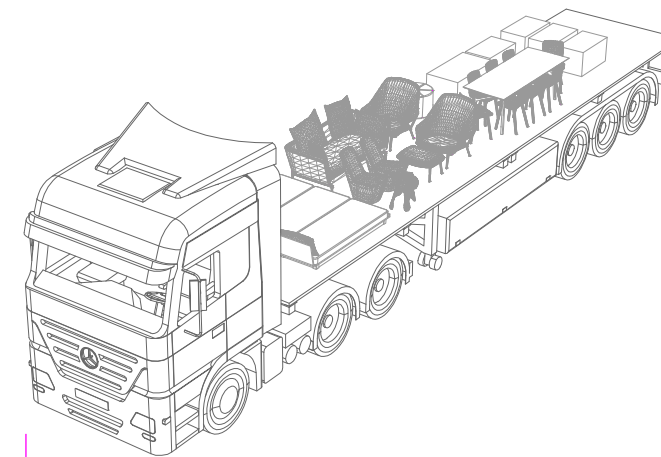
TRUCK N O. 9
 WINDOWS
 Load: 1,810 kg



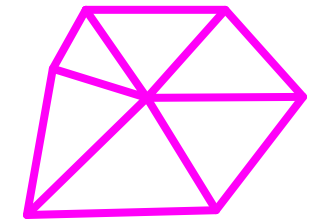
TRUCK N O. 10
 DECK S
 PLANTER S
 SOLAR THERMAL ARRAY
 Load: 1,000 kg



TRUCK N O. 11
 DECK S
 PLANTER S
 MISCELLANEOUS
 Load: 1,000 kg



TRUCK N O. 12
 FURNISHINGS
 CURTAINS
 Load: 810 kg



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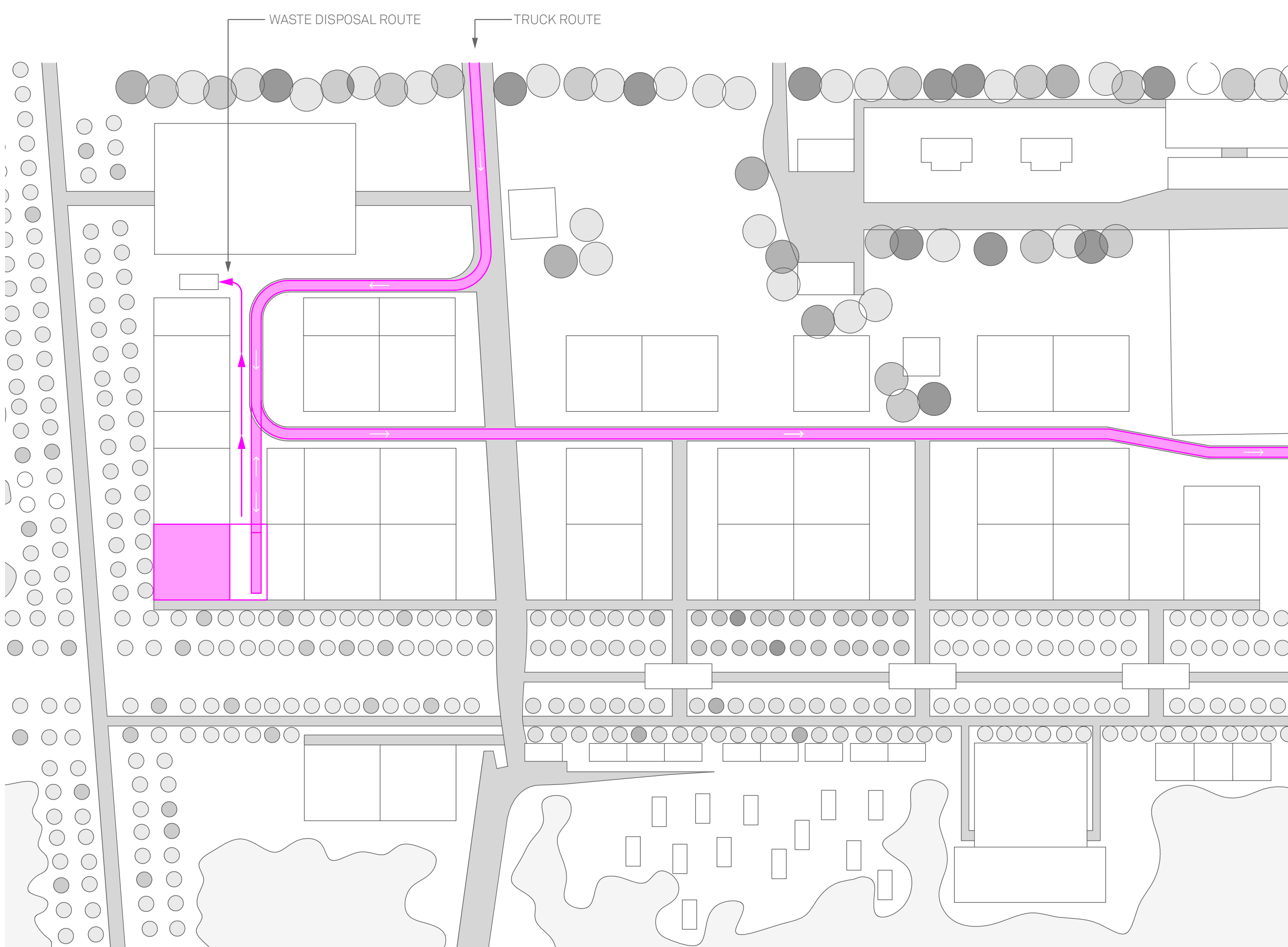
DRAWN BY: Matt Osborn

CHECKED BY: Jonathan Knowles

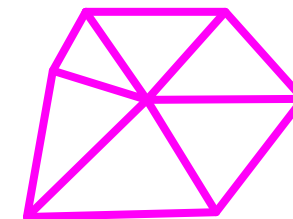
STATUS: Deliverable #7

DATE: 3 November 2014

SCALE: N/A



1 LA CITE DU SOLEIL



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DRAWN BY: Matt Osborn

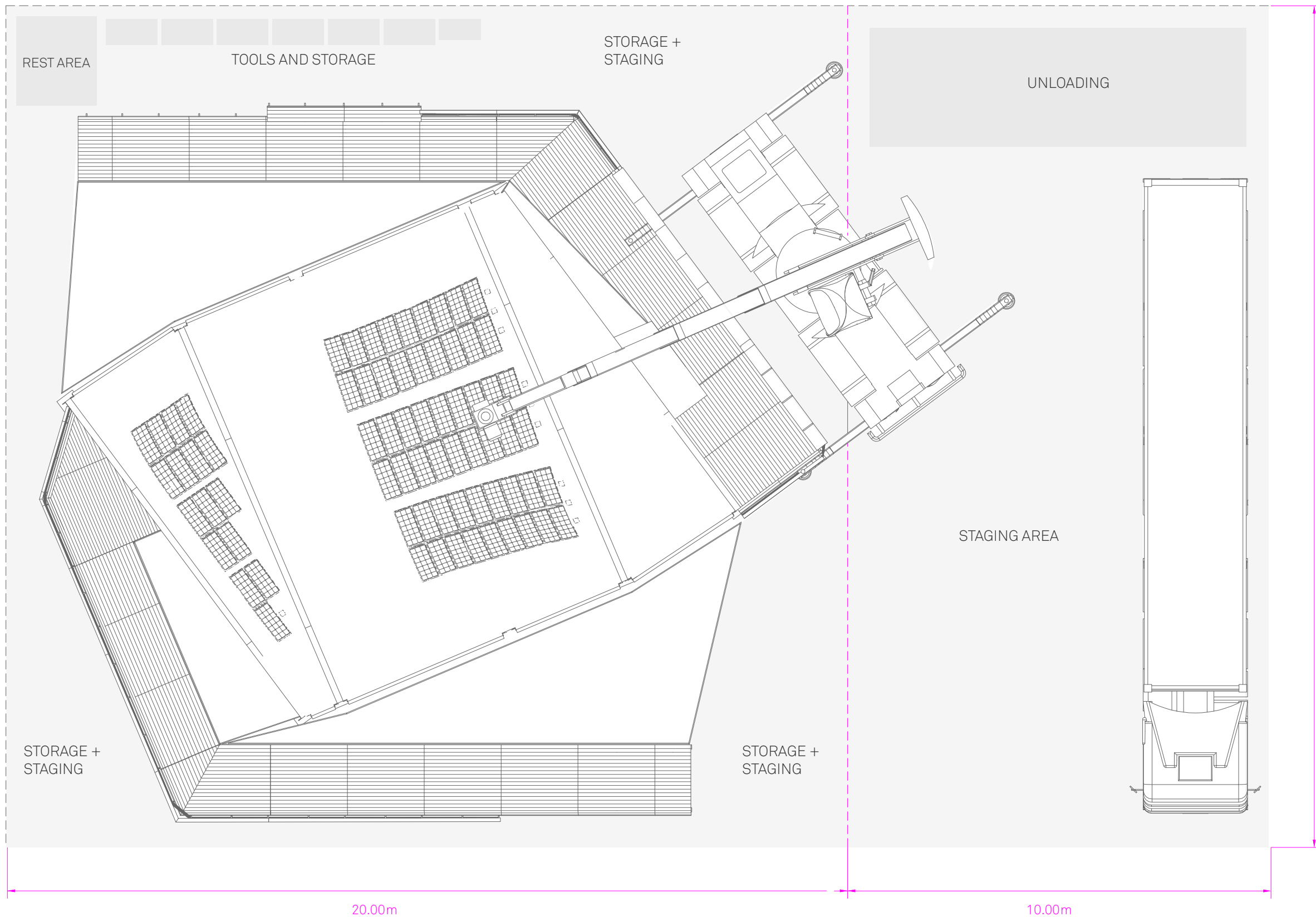
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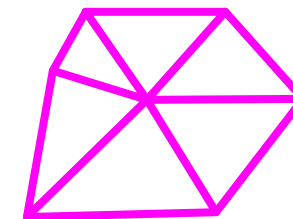
DATE: 3 November 2014

SCALE: N/A

SO-101



1 LOT PLAN-SITE C



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DRAWN BY: Matt Osborn

CHECKED BY: Jonathan Knowles

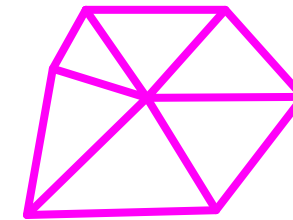
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DATE: 3 November 2014

SCALE: 1:100



SO-102



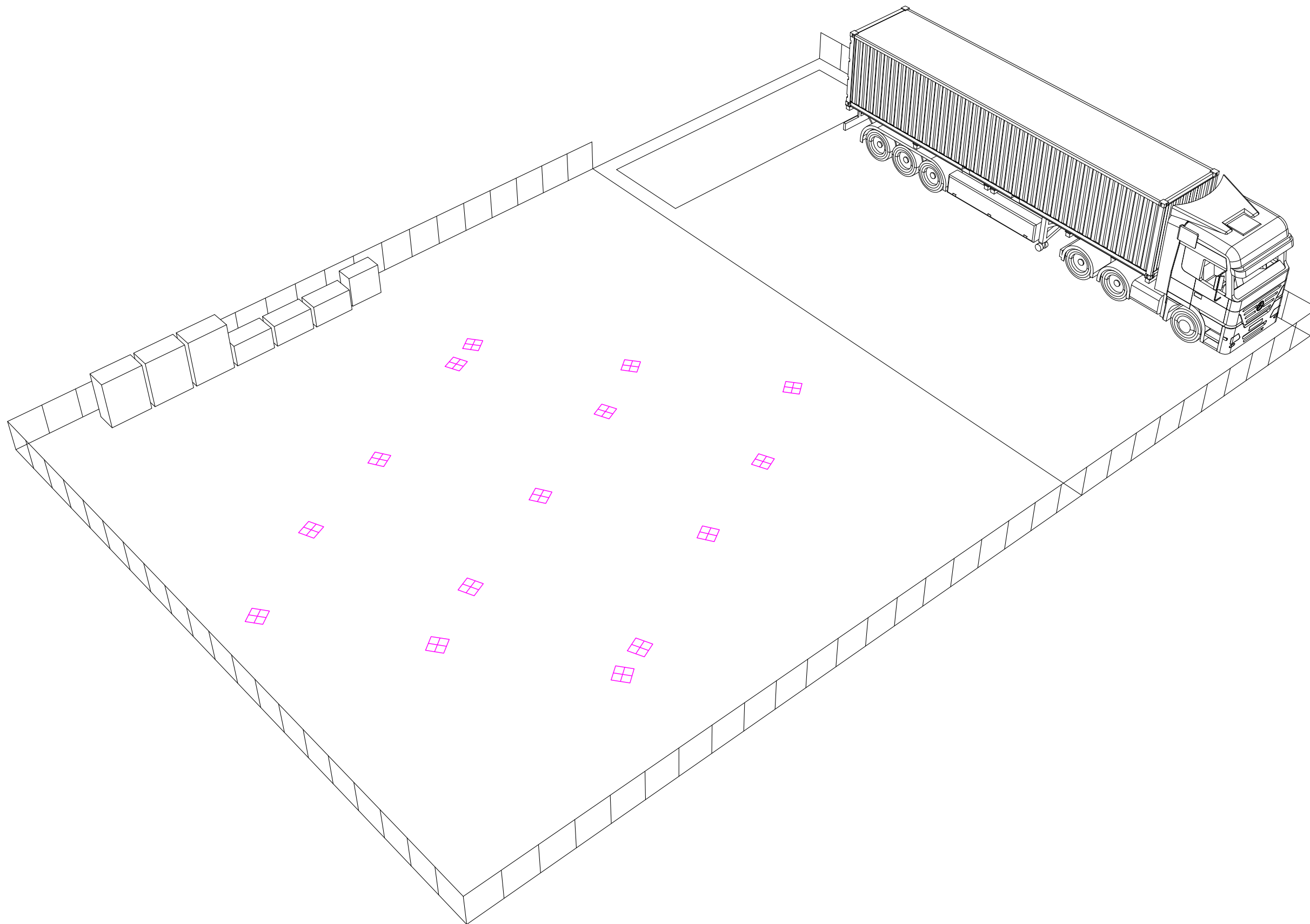
**TECHSTYLE
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1 SITE PREPARATIN - FOOTINGS

STAMP

DRAWN BY: Matt Osborn

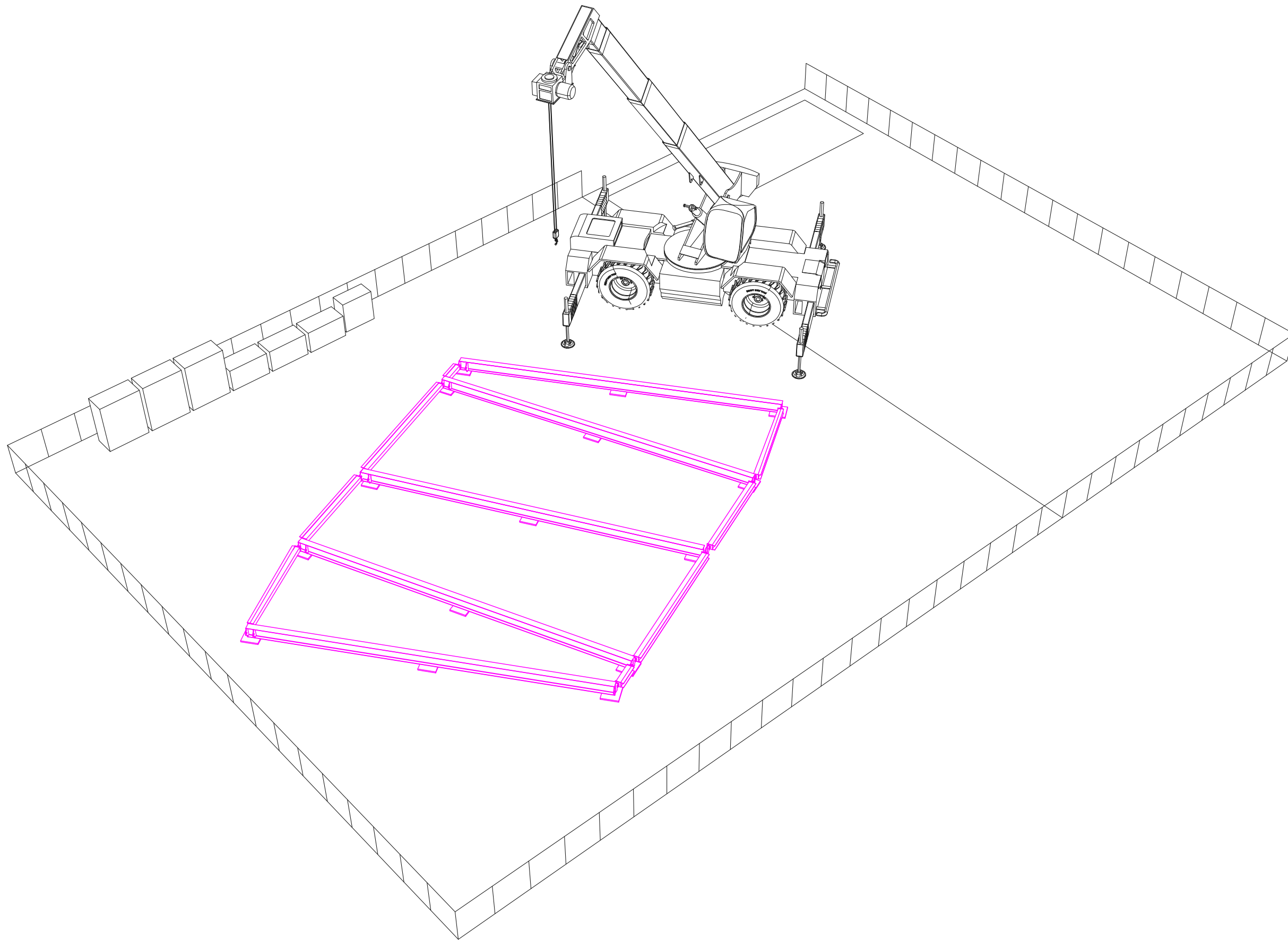
CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

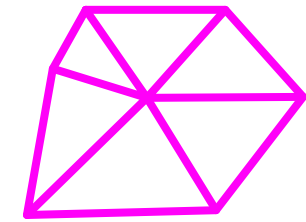
DATE: 3 November 2014

SCALE: N/A

SO-201



1 STEEL BASE FRAME ERECTION



**TECHSTYLE
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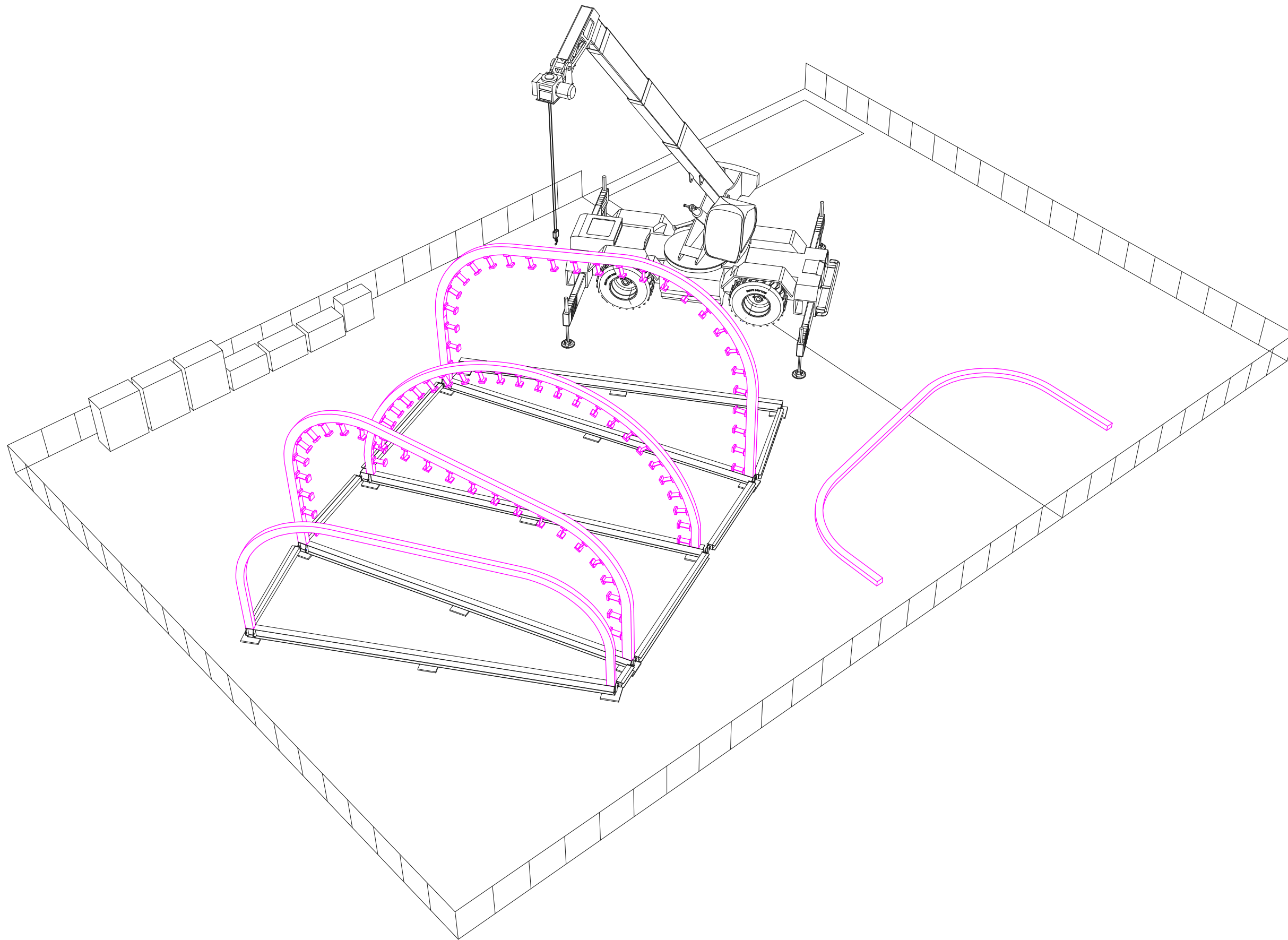
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STATUS: Deliverable #7

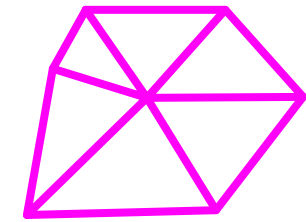
DATE: 3 November 2014

SCALE: N/A

SO-202



1 STEEL RIB ERECTION



**TECHSTYLE
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DRAWN BY: Matt Osborn

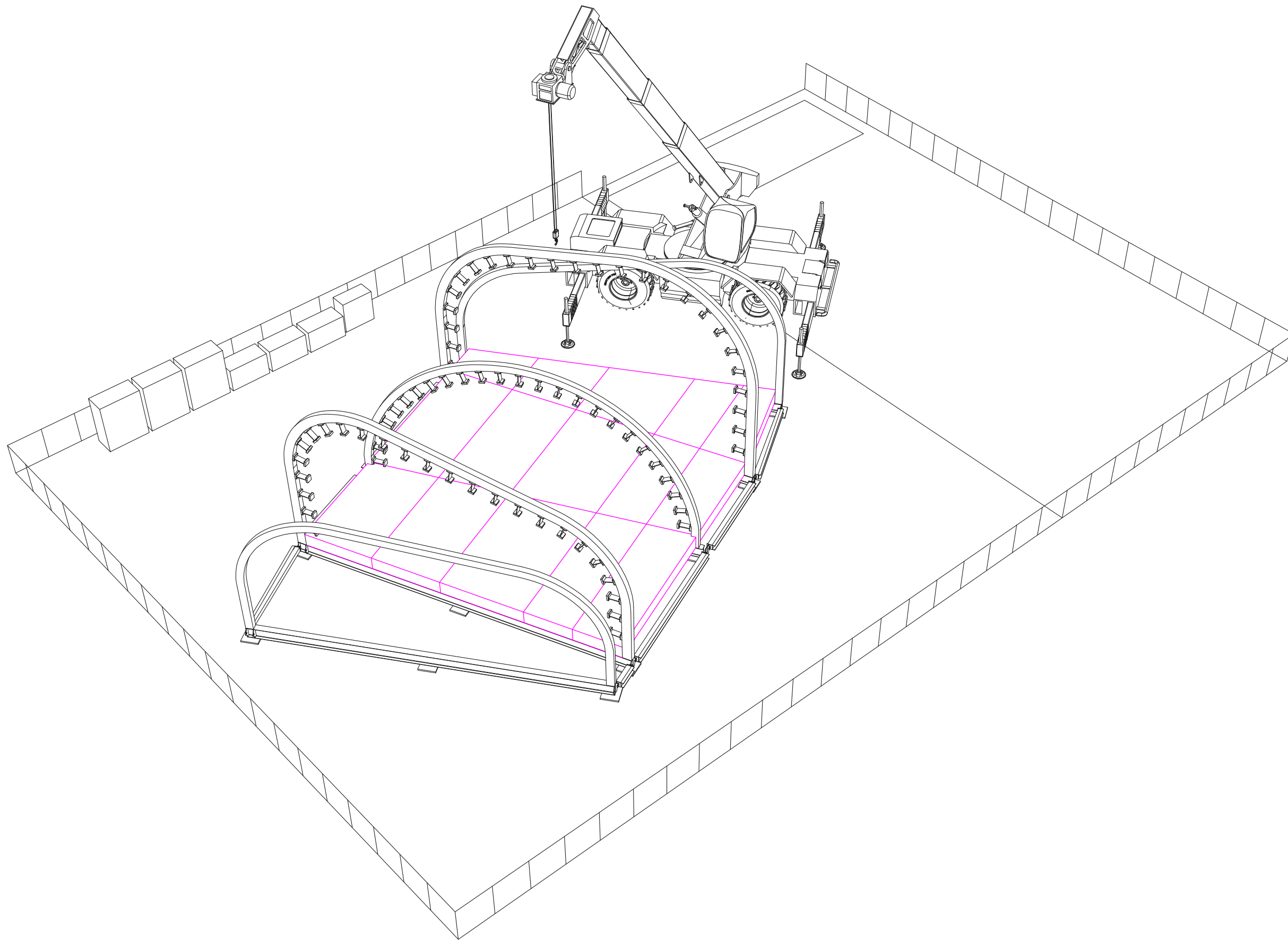
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STATUS: Deliverable #7

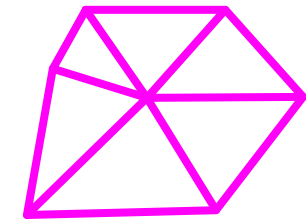
DATE: 3 November 2014

SCALE: N/A

SO-203



1 FLOOR PALLET INSTALLATION



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DRAWN BY: Matt Osborn

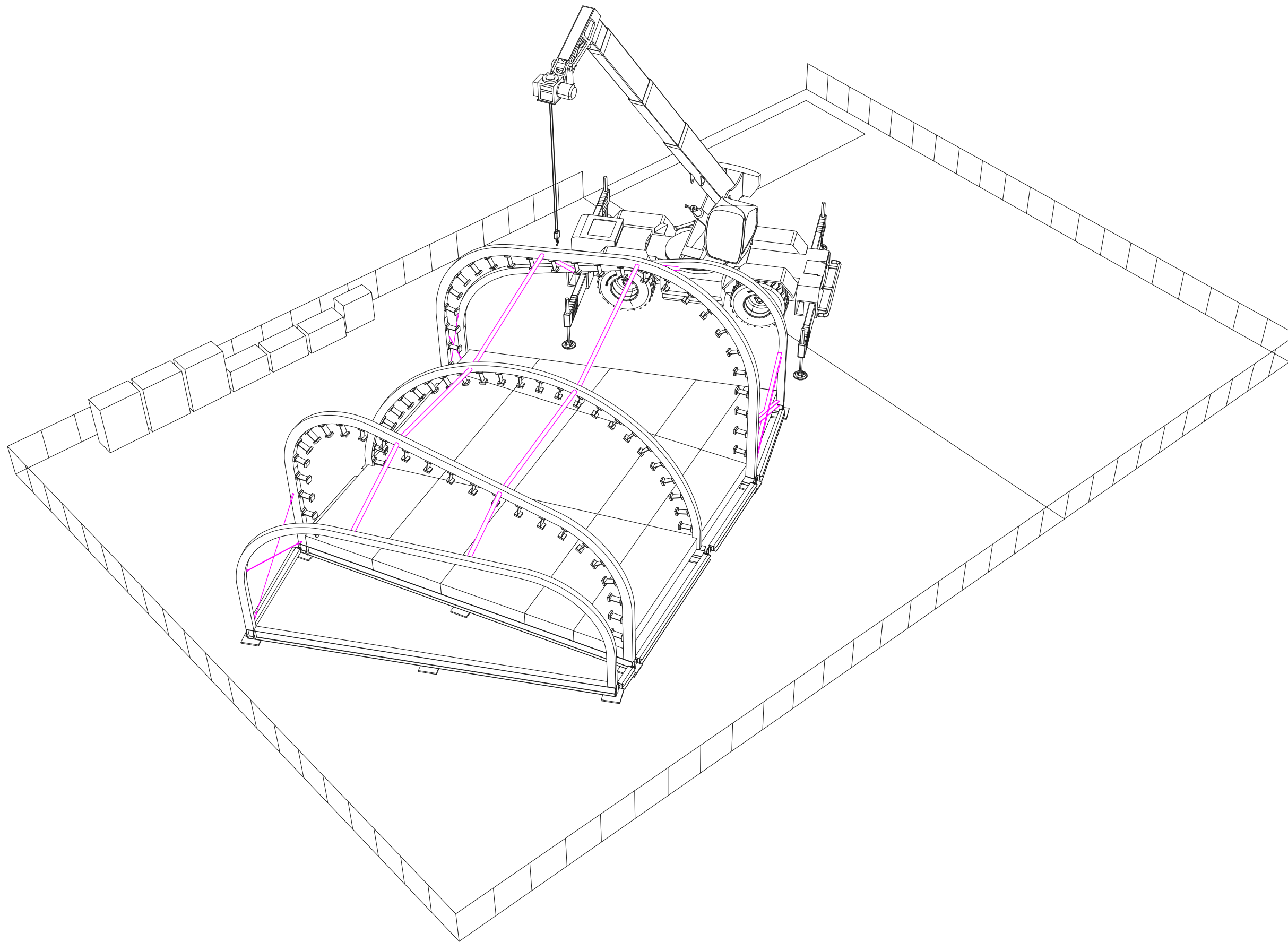
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STATUS: Deliverable #7

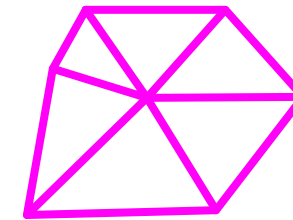
DATE: 3 November 2014

SCALE: N/A

SO-204



1 INSTALLATION OF STRUTS AND CROSS BRACING



**TECHSTYLE
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DRAWN BY: Matt Osborn

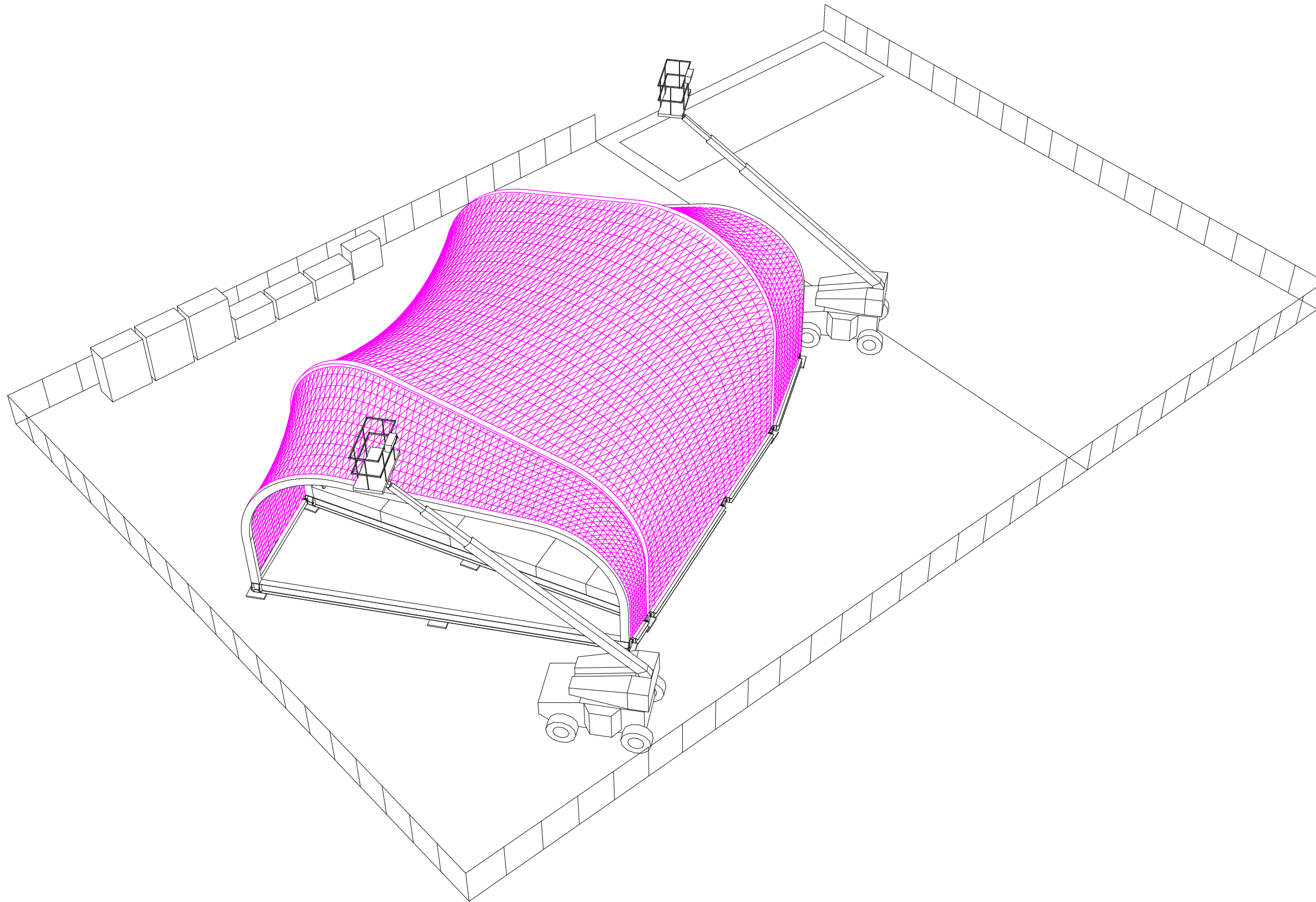
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STATUS: Deliverable #7

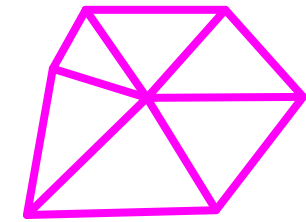
DATE: 3 November 2014

SCALE: N/A

SO-205



1 SHEERFILL MEMBRANE INSTALLATION



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DRAWN BY: Matt Osborn

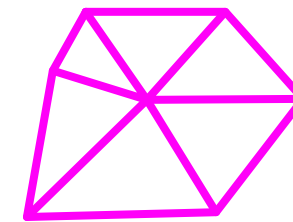
CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

DATE: 3 November 2014

SCALE: N/A

SO-206



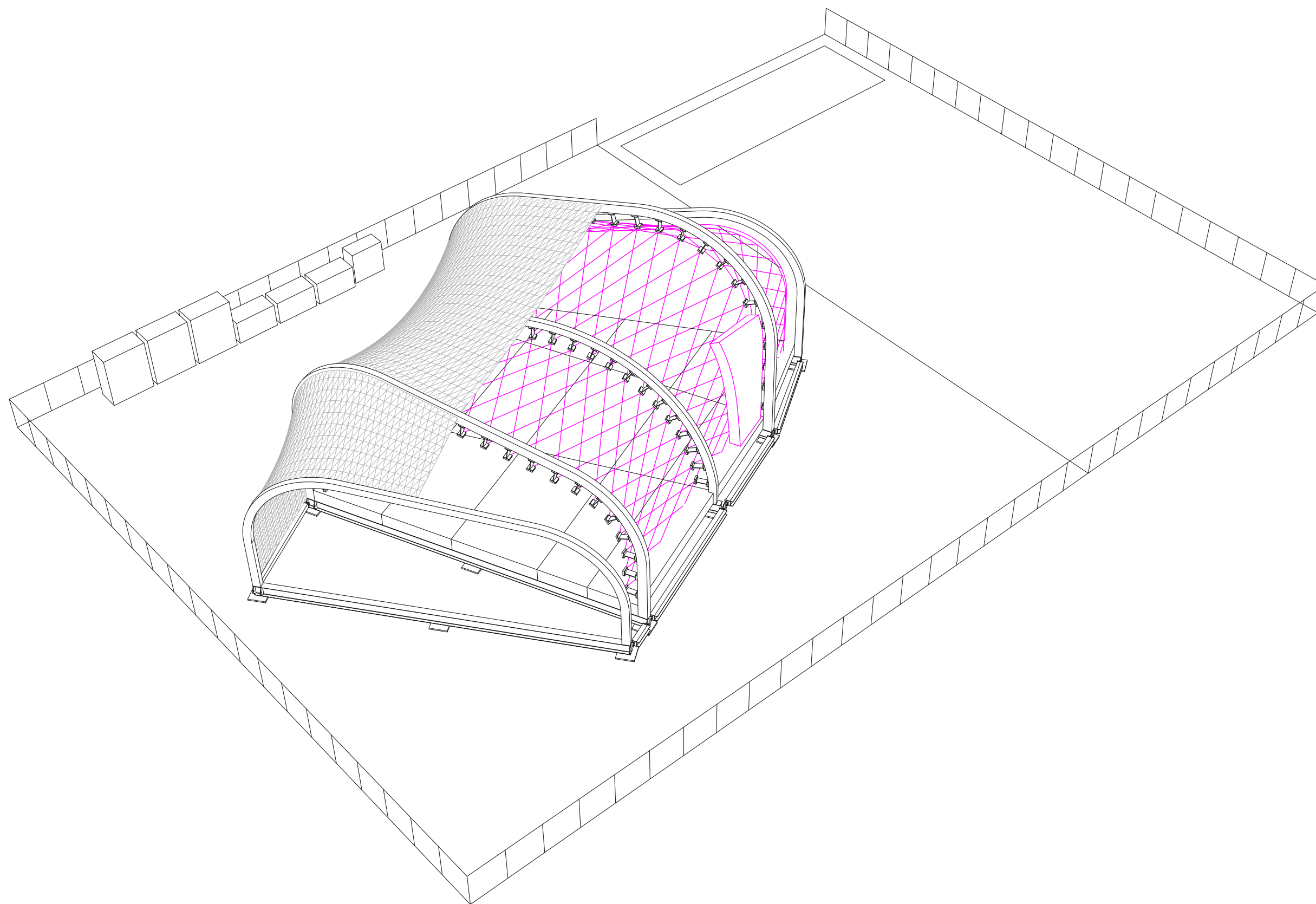
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1 INSTALLATION OF STRAPPING AND INSULATION

STAMP

DRAWN BY: Matt Osborn

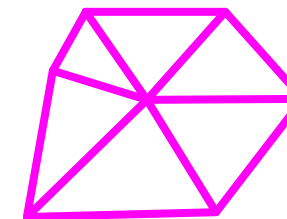
CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

DATE: 3 November 2014

SCALE: N/A

SO-207



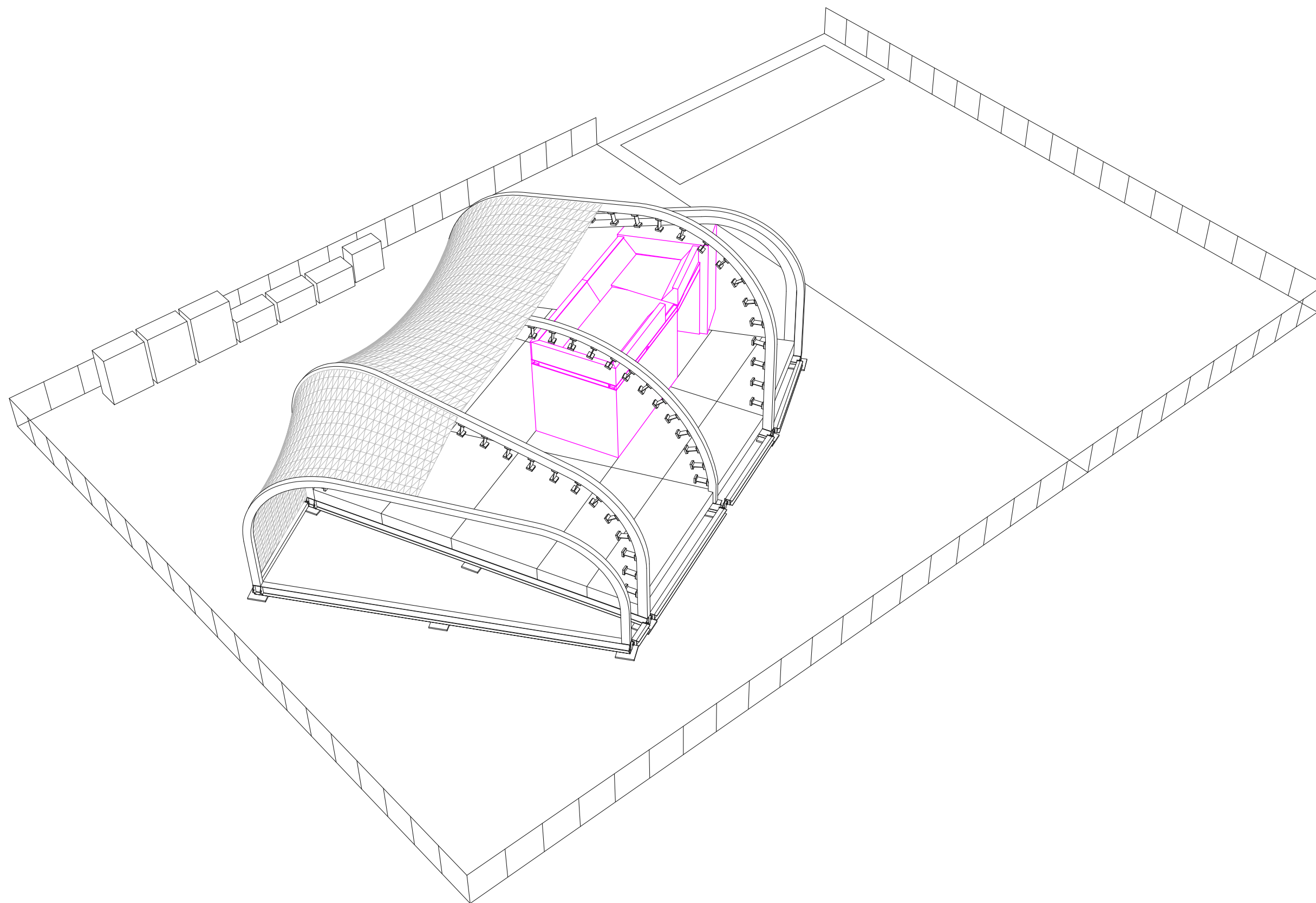
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1 CORE INSTALLATION

STAMP

DRAWN BY: Matt Osborn

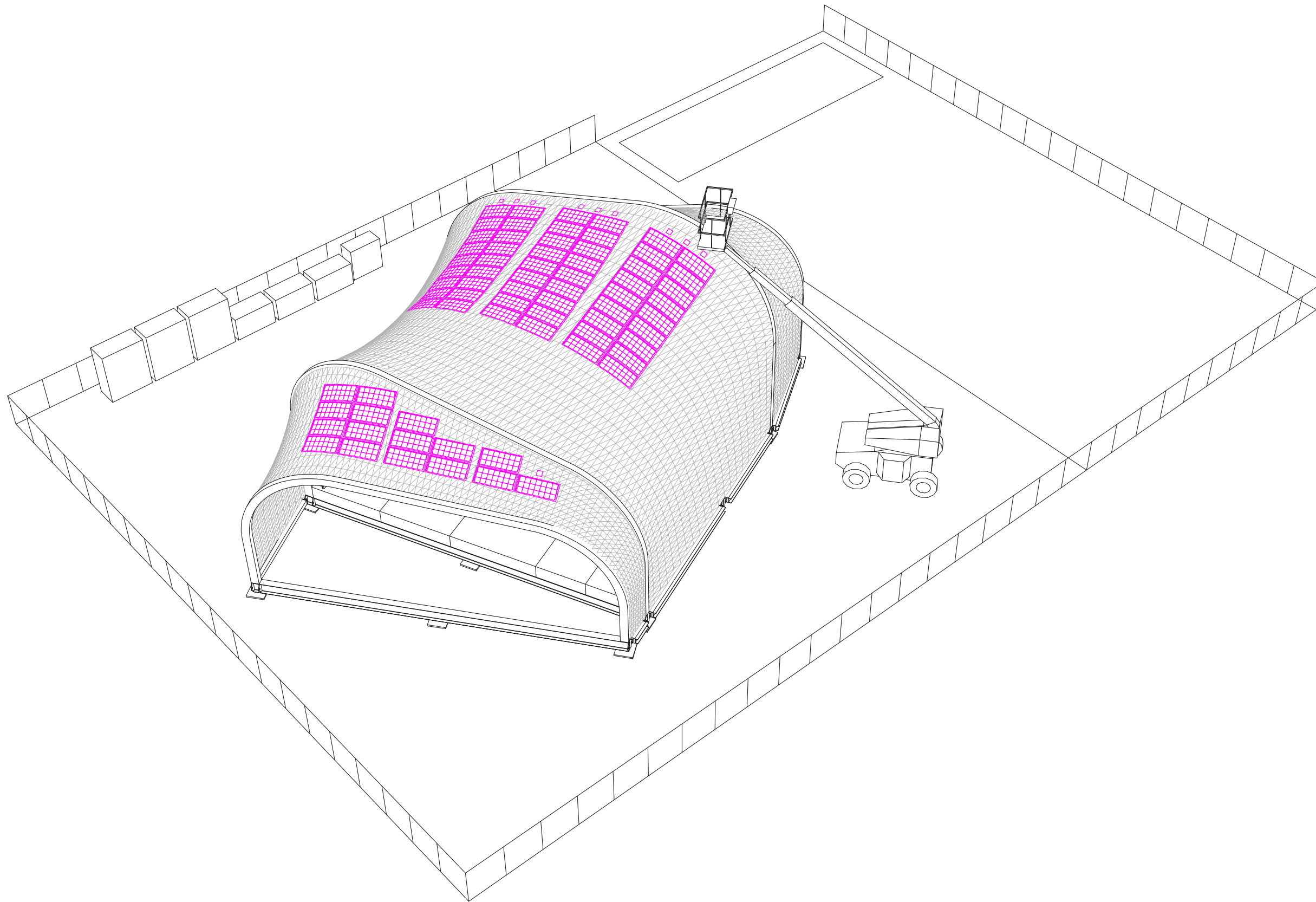
CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

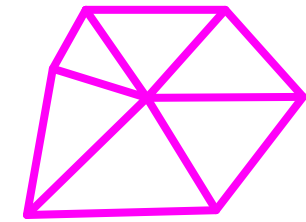
DATE: 3 November 2014

SCALE: N/A

SO-208



1 INSTALLATION OF SOLAR ARRAY



**TECHSTYLE
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DRAWN BY: Matt Osborn

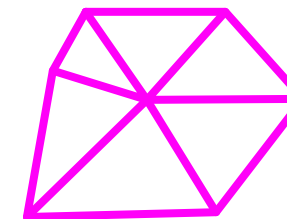
CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

DATE: 3 November 2014

SCALE: N/A

SO-209



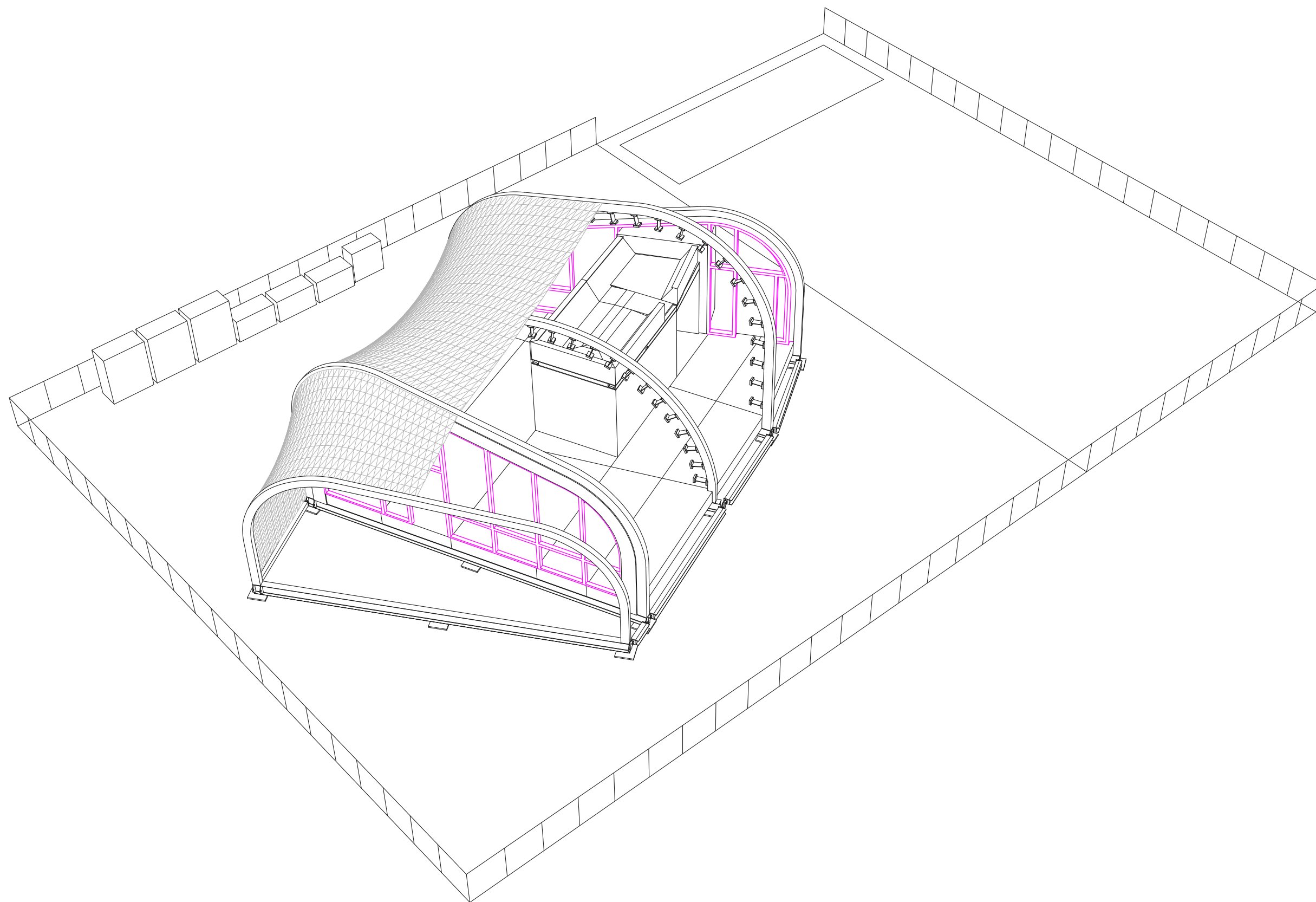
**TECHSTYLE
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1 WINDOW INSTALLATION

STAMP

DRAWN BY: Matt Osborn

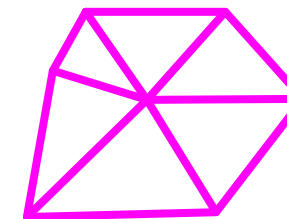
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SCALE: N/A

SO-210



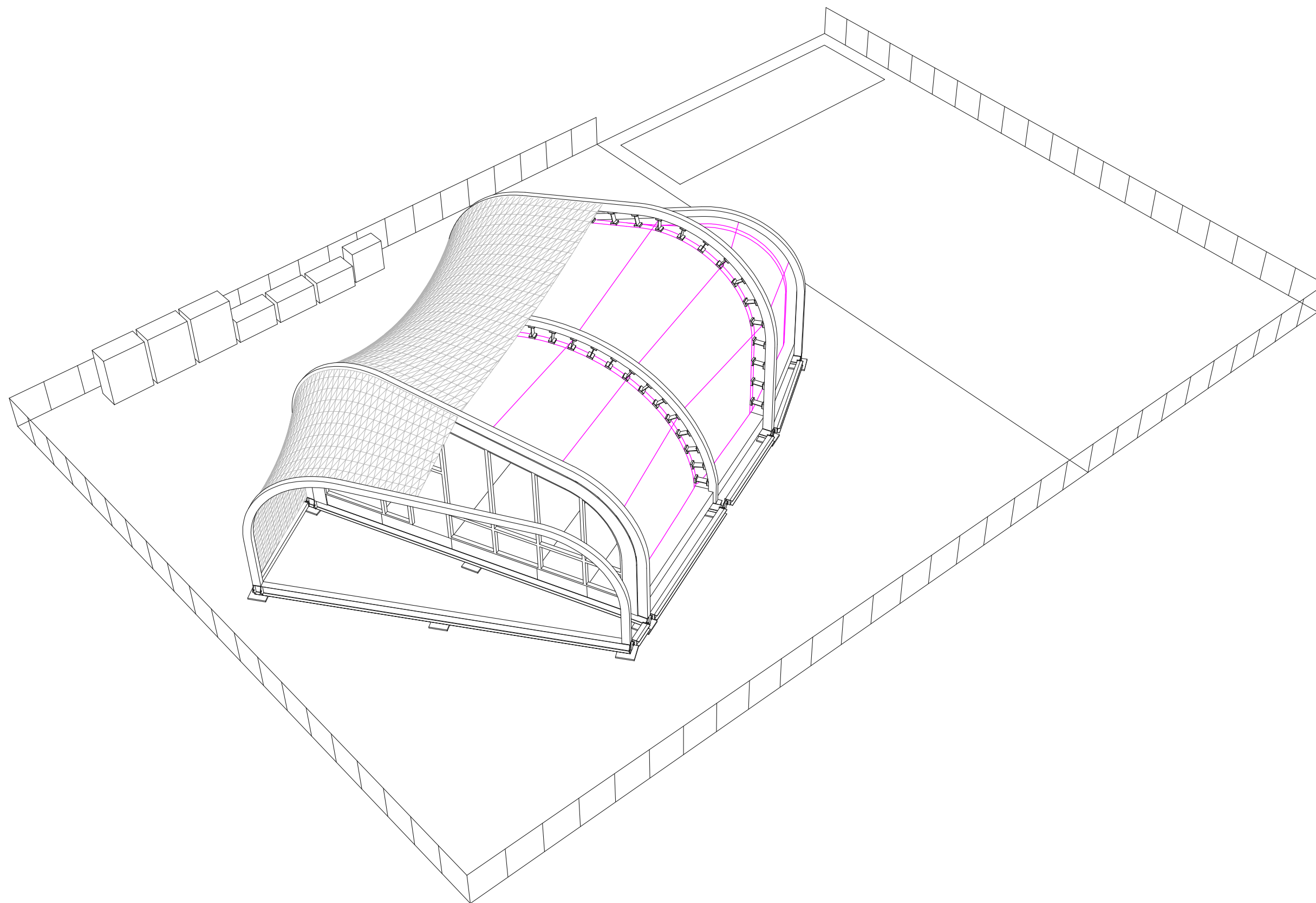
**TECHSTYLE
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1 INSTALLATION OF INTERIOR FABRIC

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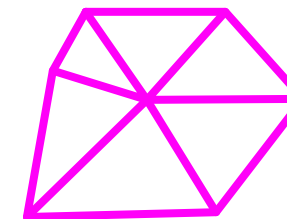
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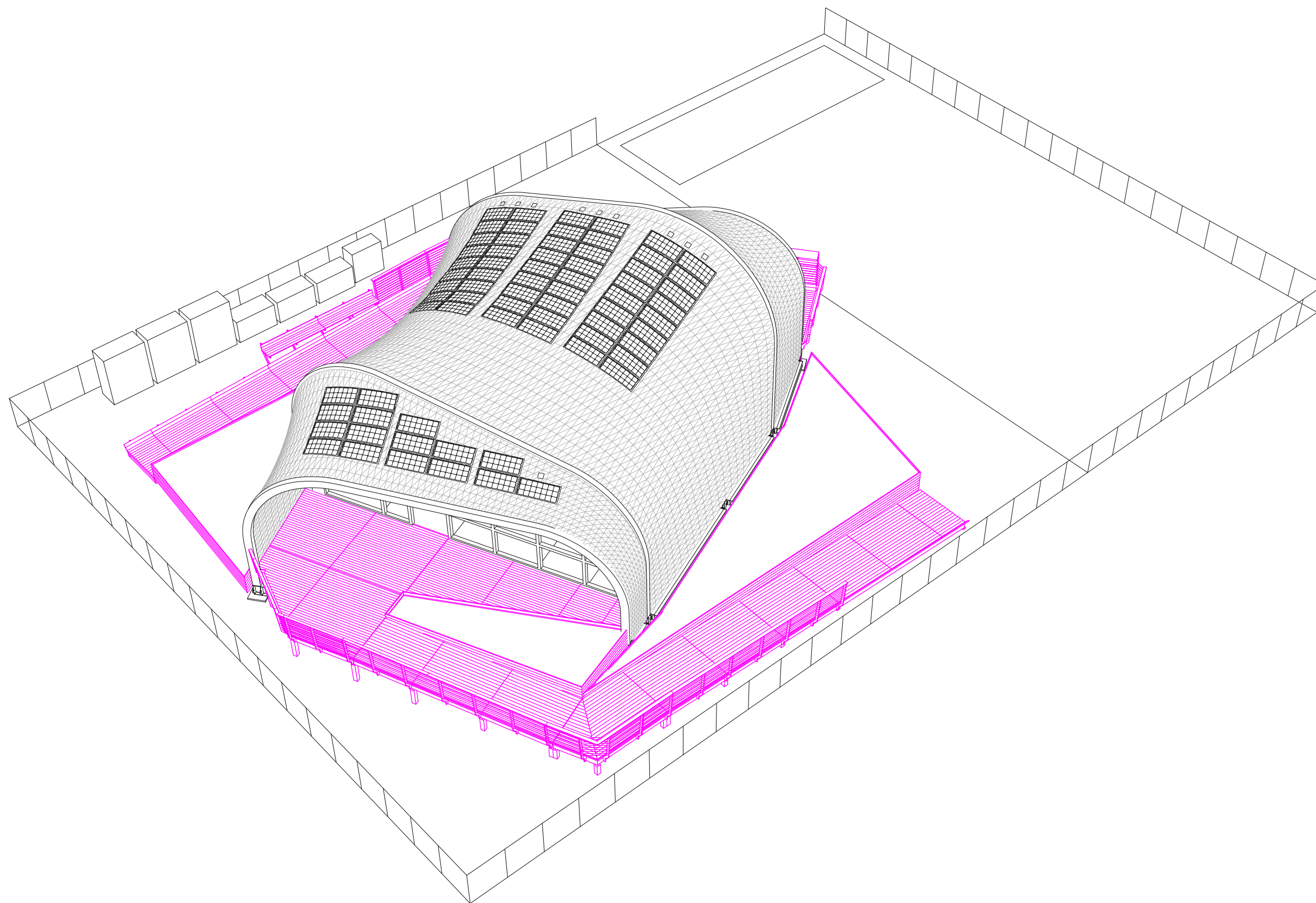
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1 INSTALLATION OF DECKS AND PLANTERS

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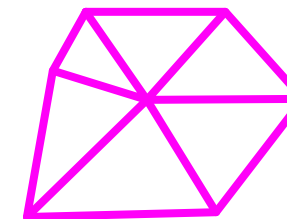
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SO-212



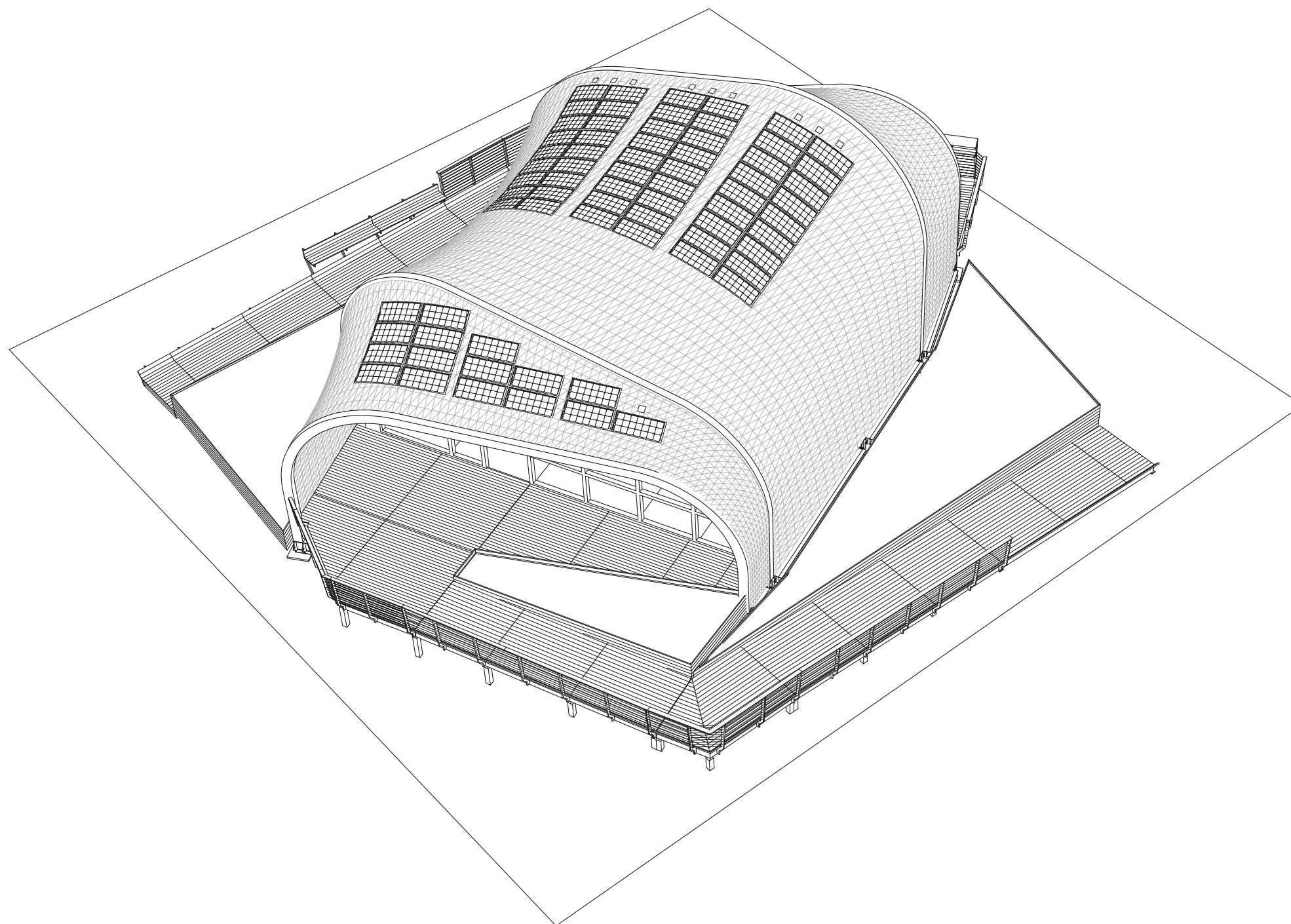
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1 COMPLETED HOUSE

STAMP

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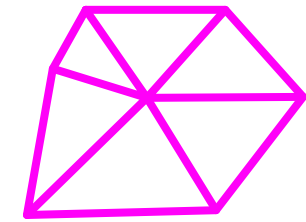
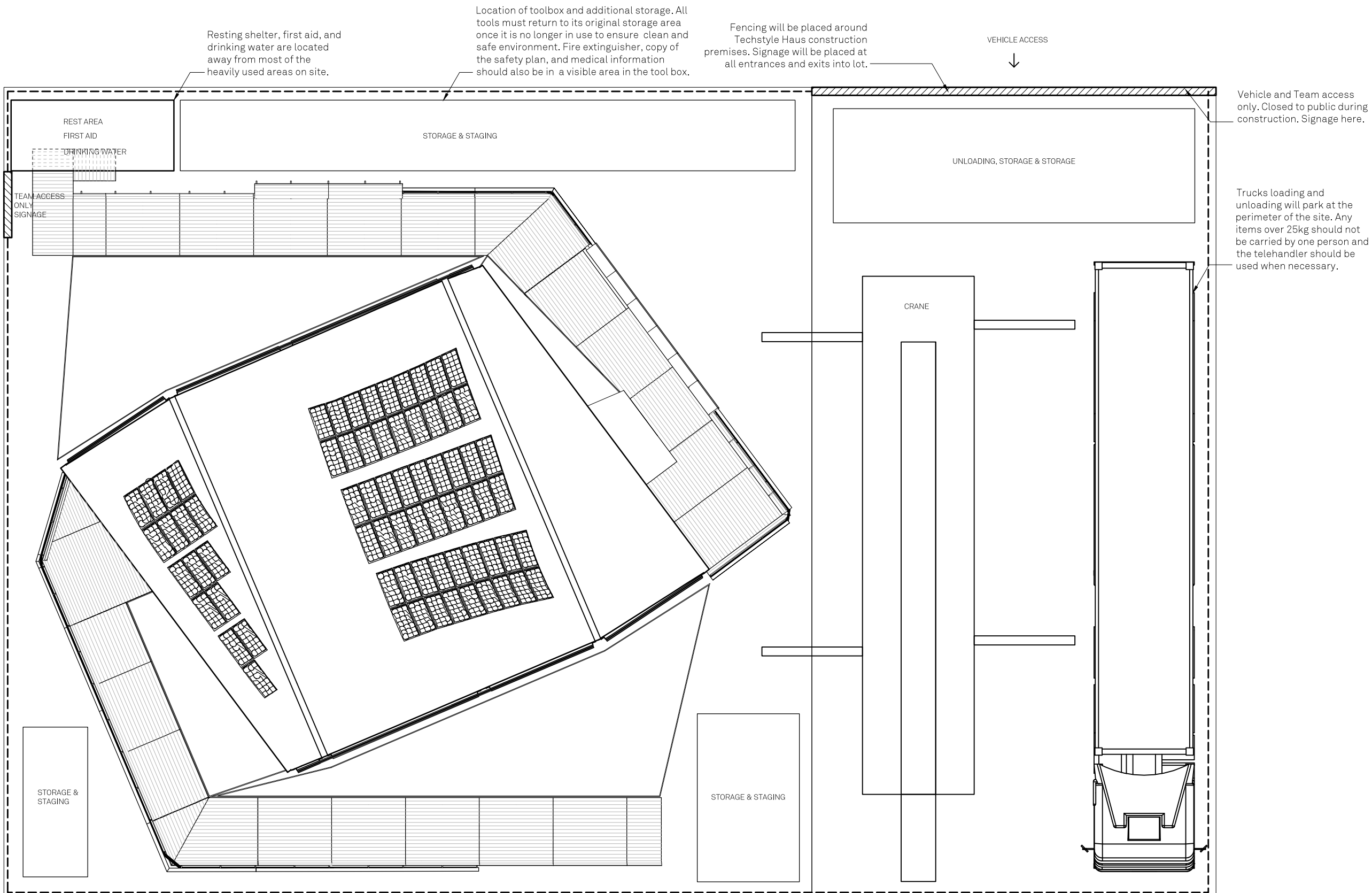
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SO-213



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STATUS: Deliverable #7

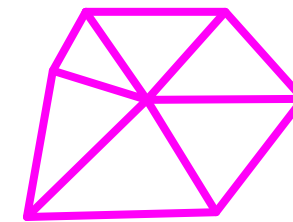
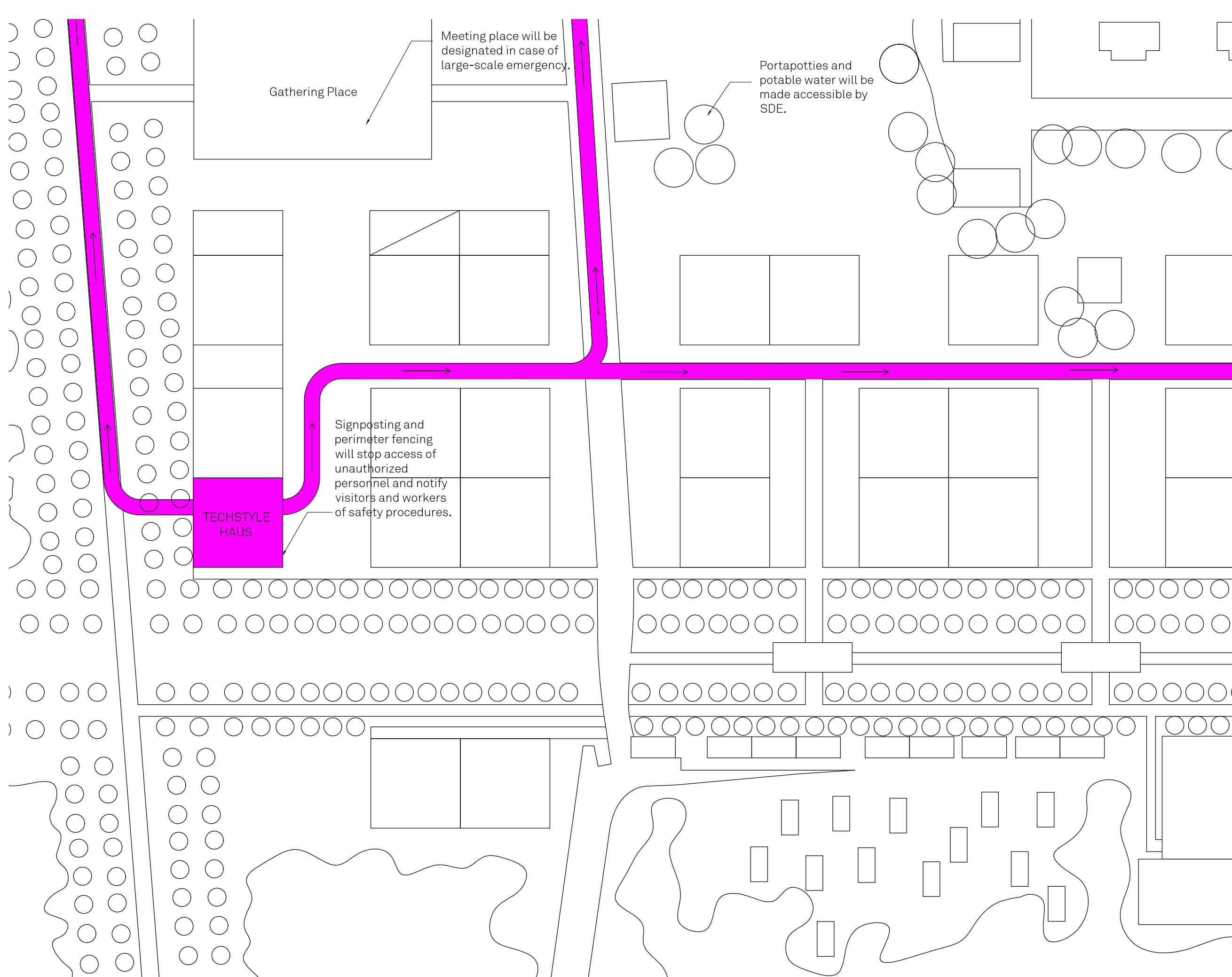
DATE: 3 November, 2014

SCALE: 1:100



1 LOT AND SURROUNDINGS

HS-001



**TECHSTYLE
HAUS.**

INSIDE OUT

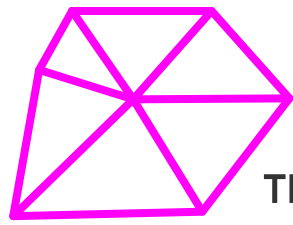
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SCALE:	N/A



TECHSTYLE HAUS.

EMERGENCY EVACUATION PLAN

- FIRE EXIT
- CIRCUIT BREAKER
- SMOKE DETECTOR
- FIRE EXTINGUISHER
- FIRST AID KIT

IN CASE OF FIRE, EVACUATE FROM THE FIRE EXIT OPPOSITE FROM THE SOURCE OF THE FIRE.

PLEASE REMAIN CALM AND EXIT AS EFFICIENTLY AS POSSIBLE

- | | |
|---|---|
| EMERGENCY (USA): 911 | Emergency (France): 112 |
| Rhode Island Hospital
593 Eddy Street
Providence, RI 02903, USA
+1 401 444 4000 | Centre Hospitalier de Versailles
177 rue Versailles
78150 Chesnay (Le)
+011 01 39 63 80 20 |
| RISD Public Safety
South Hall
30 Waterman Street
Providence, RI 02903, USA
+1 401 454 6388 | Hospital-based Ambulance: 15
Service-based Ambulance: 18
Fire Department: 18 land line –
mobile: 112 |
| Brown University Public Safety
75 Charlesfield Street,
Providence, RI 02912, USA
+1 401 863 1740 | Police: 17 |

FOR MORE INFORMATION

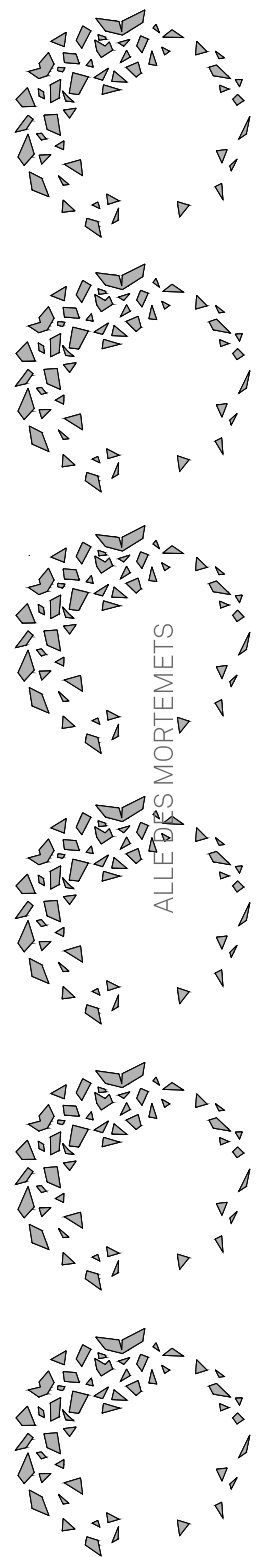
Christophe Peyronel
SDE Health and Safety Coordinator
+011 33 04 96 17 13 50

Isabelle Lubin
Techstyle Haus Safety Coordinator
+1 310 228 7373

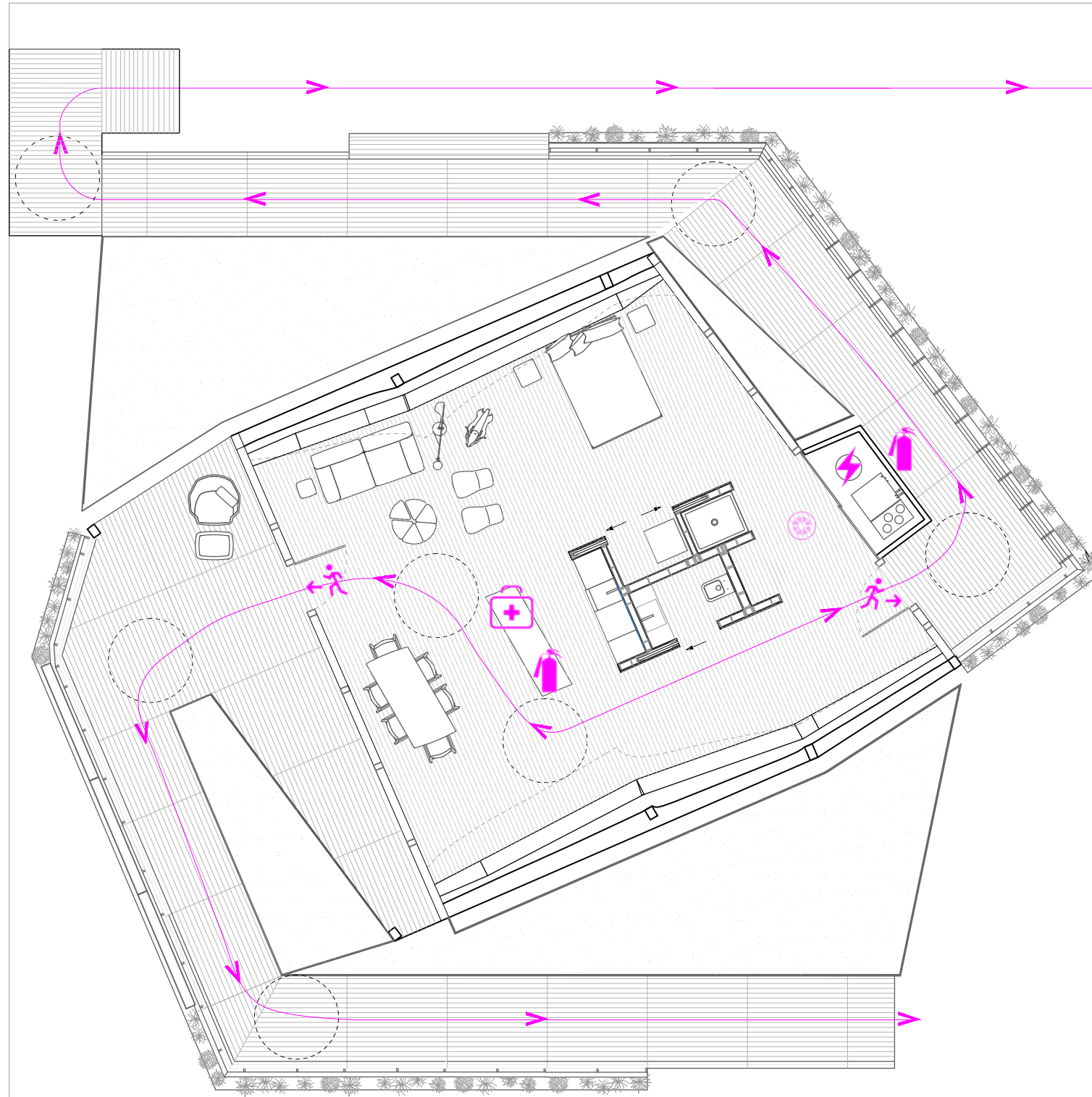
Alexa Asakiewicz
Techstyle Haus Safety Officer
+1 973 219 9949

Grace Cong Xin Wong
Techstyle Haus Safety Officer
+1 626 226 8654

CASA: TEAM MEXICO

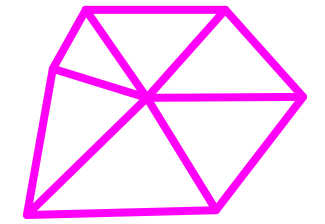


ALLEES MORIEMETS



EXHIBITION ROAD

EXHIBITION ROAD



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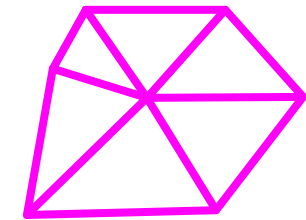
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Vehicle and Team access only. Closed to public during construction. Signage here.

Serves as temporary loading and unloading zone. Area must be cleared when a truck or other vehicle needs to evacuate the premises. People working in this area will wear reflective vests.

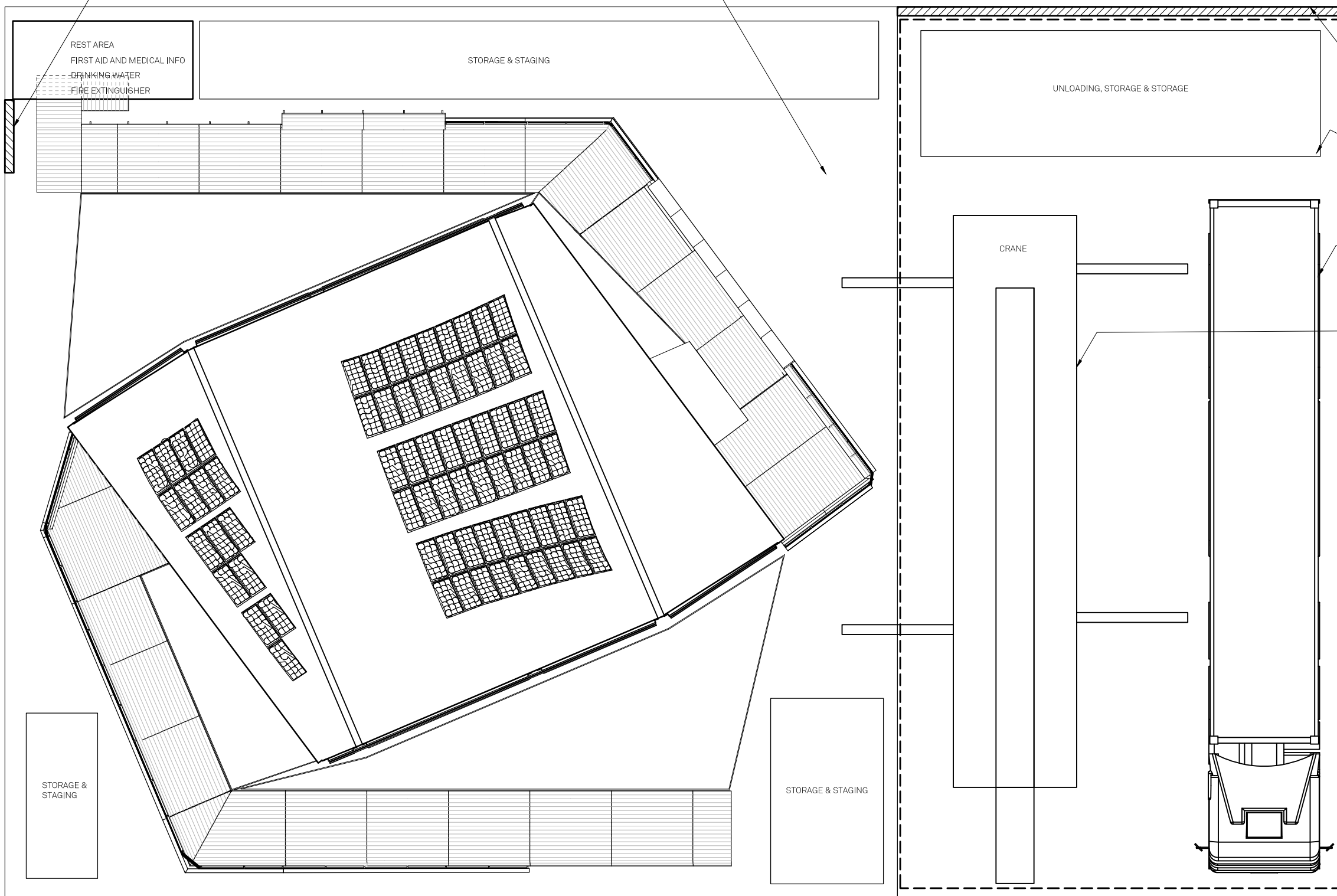
Trucks loading and unloading will park at the perimeter of the site. Any items over 25kg should not be carried by one person and the telehandler should be used when necessary.

The crane will only be used to lift the steel ribs into place. It will remain stationary throughout its brief usage on our site.

Area frequently used for trucks, cranes, and other heavy machinery. Persons working in this area must wear a hard hat and reflective vest at all times

Empty spaces along the north and south facing areas will be used as flexible loading and unloading areas during construction. Hard hats will be required due to the proximity to trucks and crane.

Team access only. Closed to public during construction. Signage here.



1 LOAD AND UNLOAD

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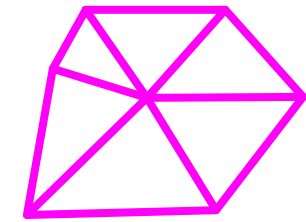
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SCALE: 1:100



HS-301



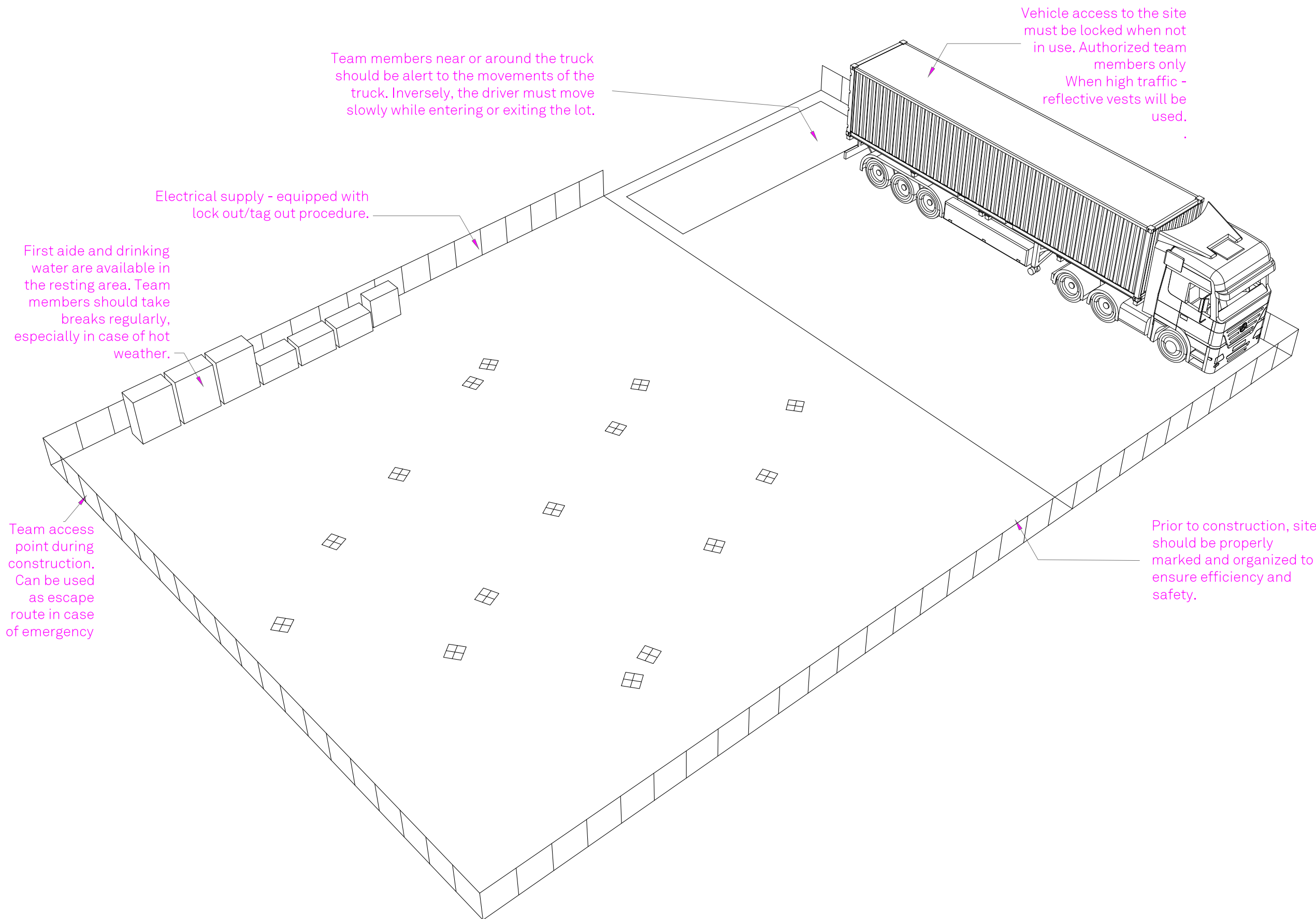
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Team members near or around the truck should be alert to the movements of the truck. Inversely, the driver must move slowly while entering or exiting the lot.

Vehicle access to the site must be locked when not in use. Authorized team members only
When high traffic - reflective vests will be used.

Electrical supply - equipped with lock out/tag out procedure.

First aid and drinking water are available in the resting area. Team members should take breaks regularly, especially in case of hot weather.

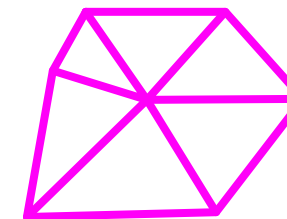
Team access point during construction. Can be used as escape route in case of emergency

Prior to construction, site should be properly marked and organized to ensure efficiency and safety.

1 SITE PREPARATION

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DATE: 3 November, 2014
SCALE: N/A

HS-401



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CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

DATE: 3 November, 2014

SCALE: N/A

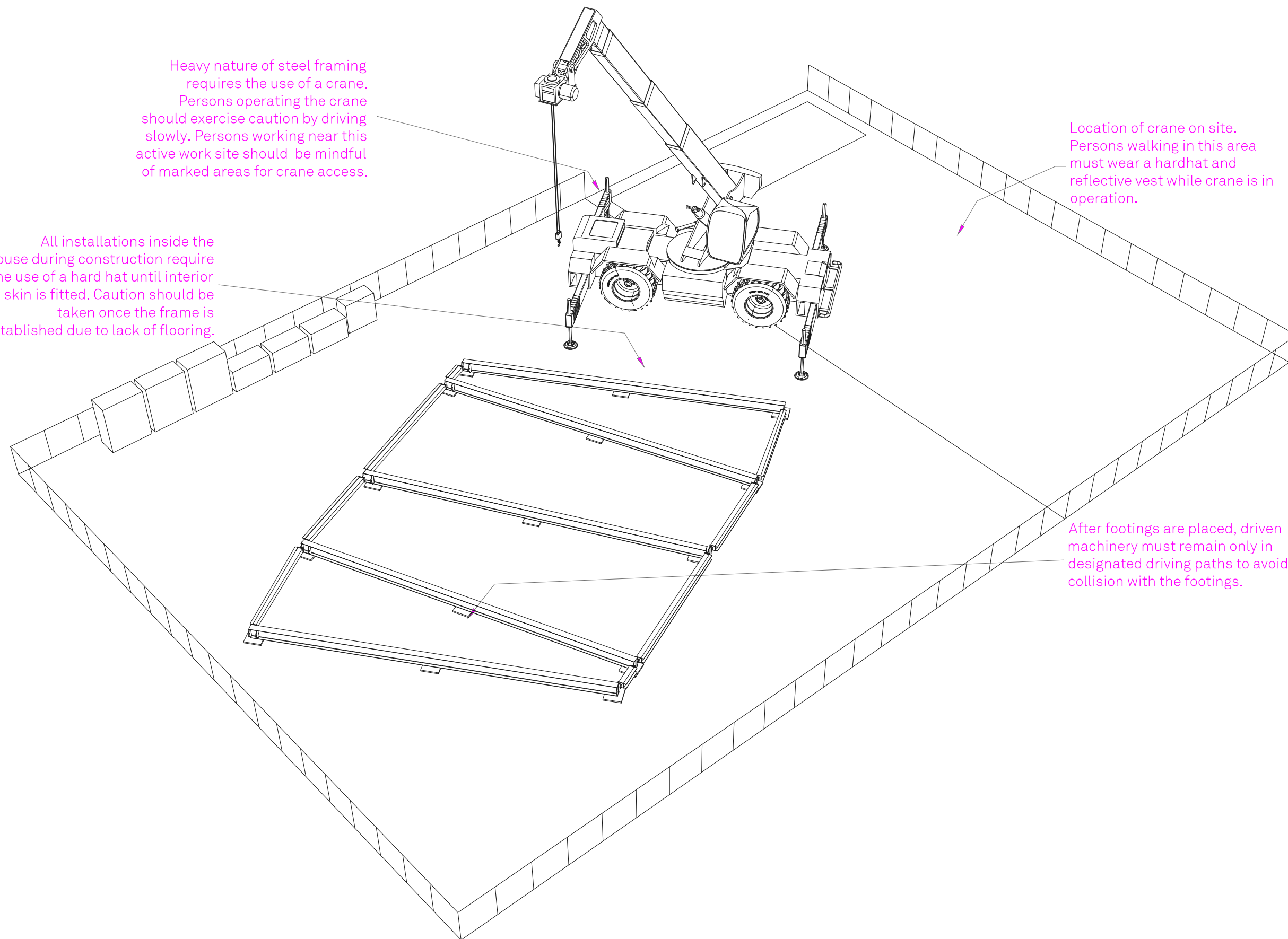
HS-402

Heavy nature of steel framing requires the use of a crane. Persons operating the crane should exercise caution by driving slowly. Persons working near this active work site should be mindful of marked areas for crane access.

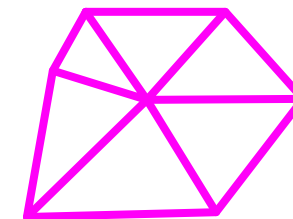
All installations inside the house during construction require the use of a hard hat until interior skin is fitted. Caution should be taken once the frame is established due to lack of flooring.

Location of crane on site. Persons walking in this area must wear a hardhat and reflective vest while crane is in operation.

After footings are placed, driven machinery must remain only in designated driving paths to avoid collision with the footings.



1 STEEL BASE FRAME ERECTION



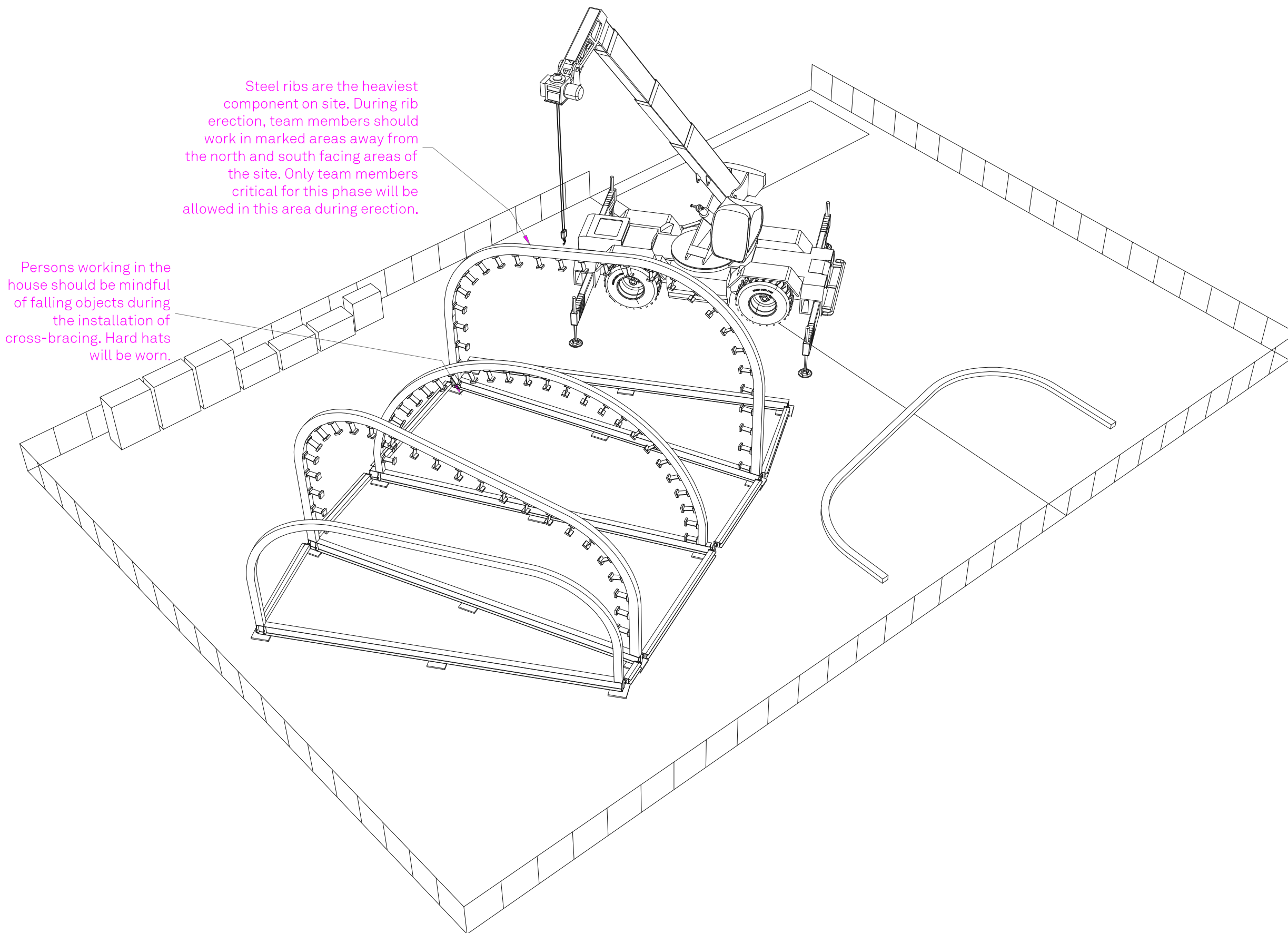
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Steel ribs are the heaviest component on site. During rib erection, team members should work in marked areas away from the north and south facing areas of the site. Only team members critical for this phase will be allowed in this area during erection.

Persons working in the house should be mindful of falling objects during the installation of cross-bracing. Hard hats will be worn.

1 STEEL RIB ERECTION

STAMP

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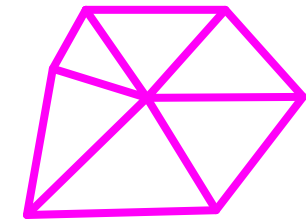
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SCALE: N/A

HS-403



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STAMP

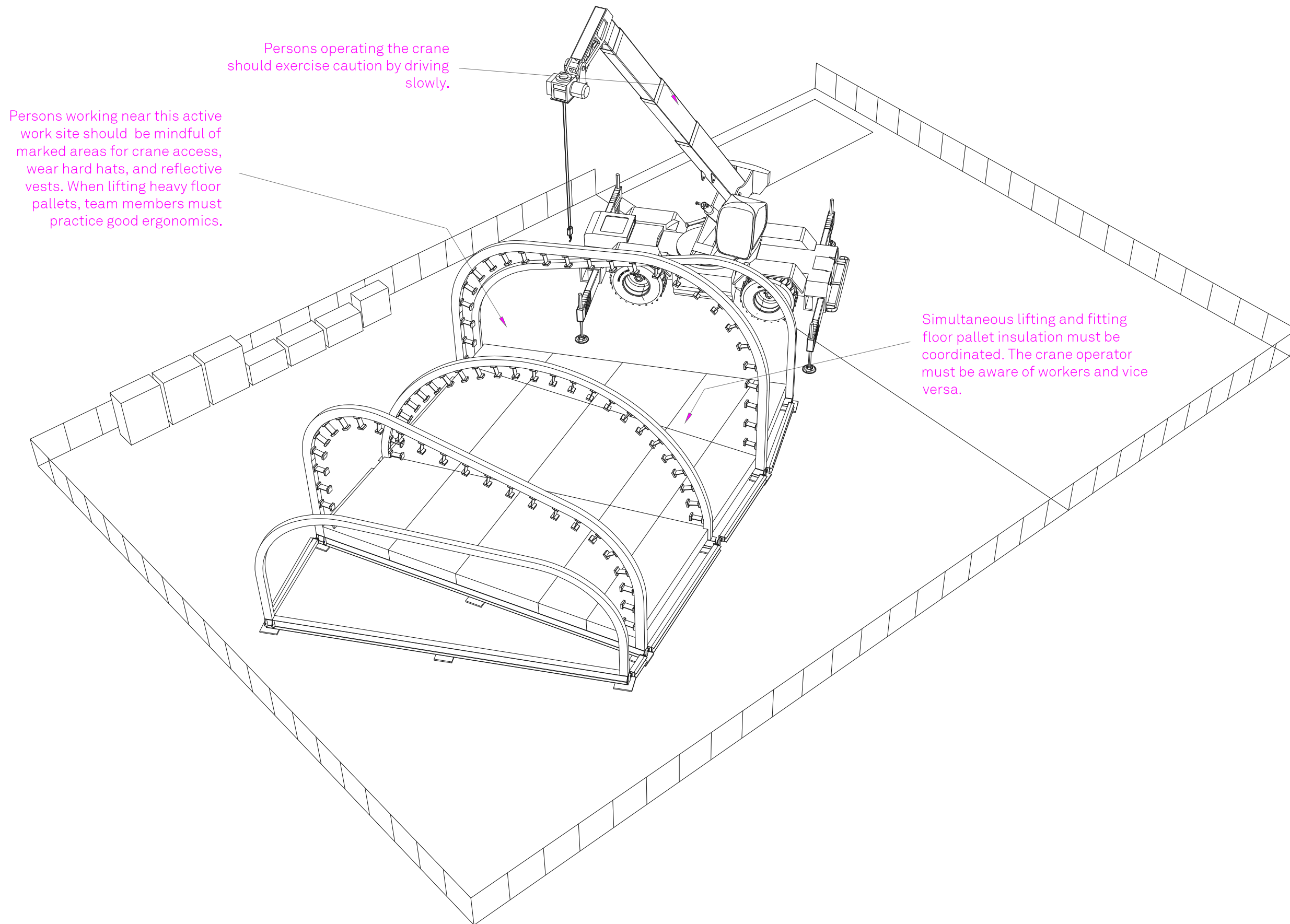
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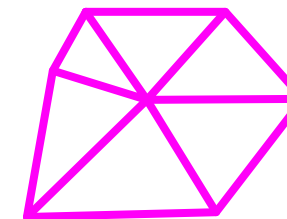
DATE: 3 November, 2014

SCALE: N/A



1 FLOOR PALLET INSTALLATION

HS-404



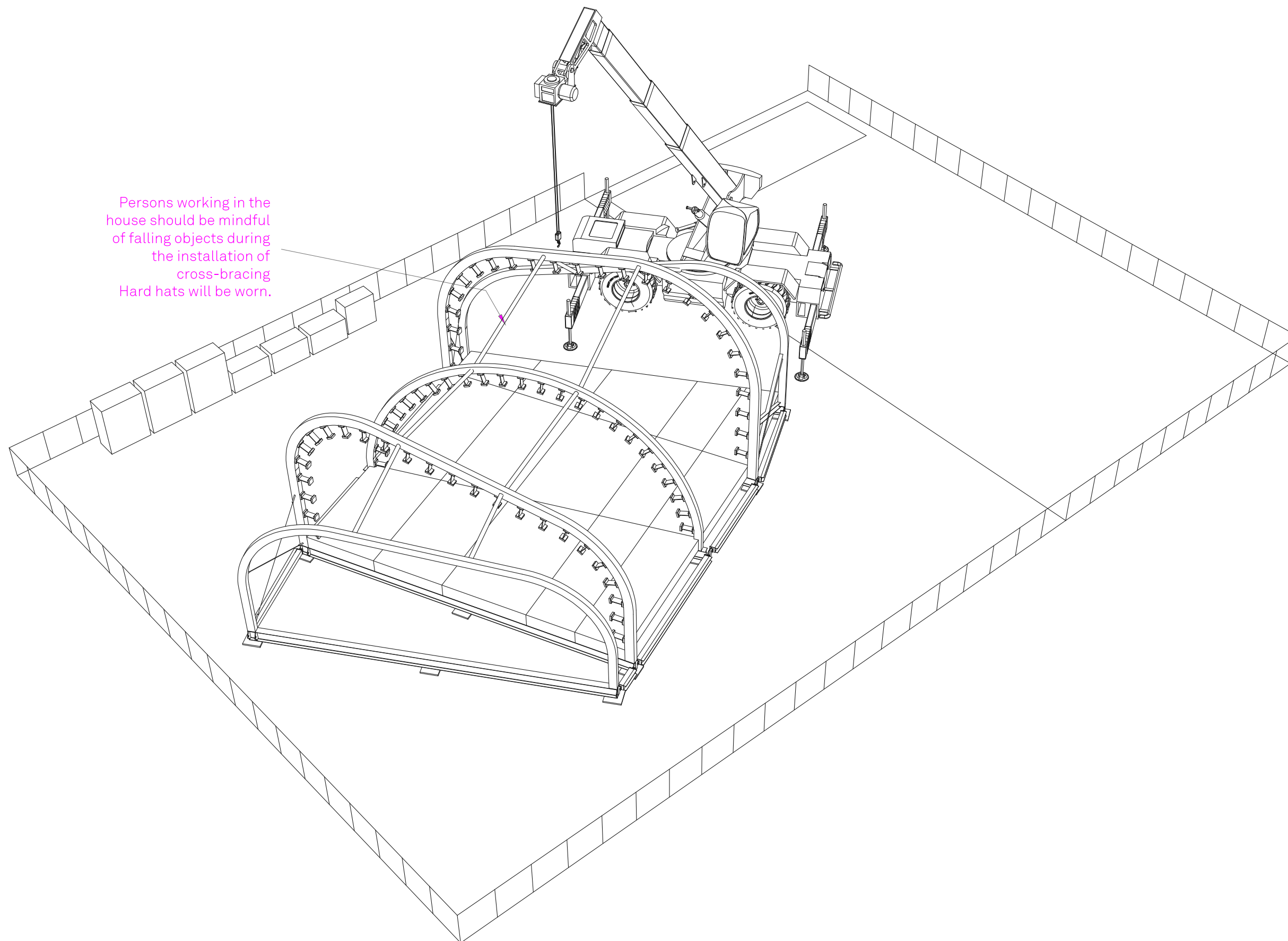
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Persons working in the house should be mindful of falling objects during the installation of cross-bracing. Hard hats will be worn.

1 INSTALLATION OF STRUTS AND CROSS BRACING

STAMP

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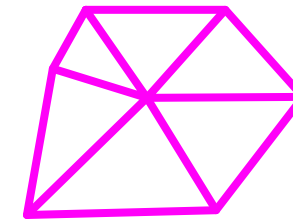
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HS-405



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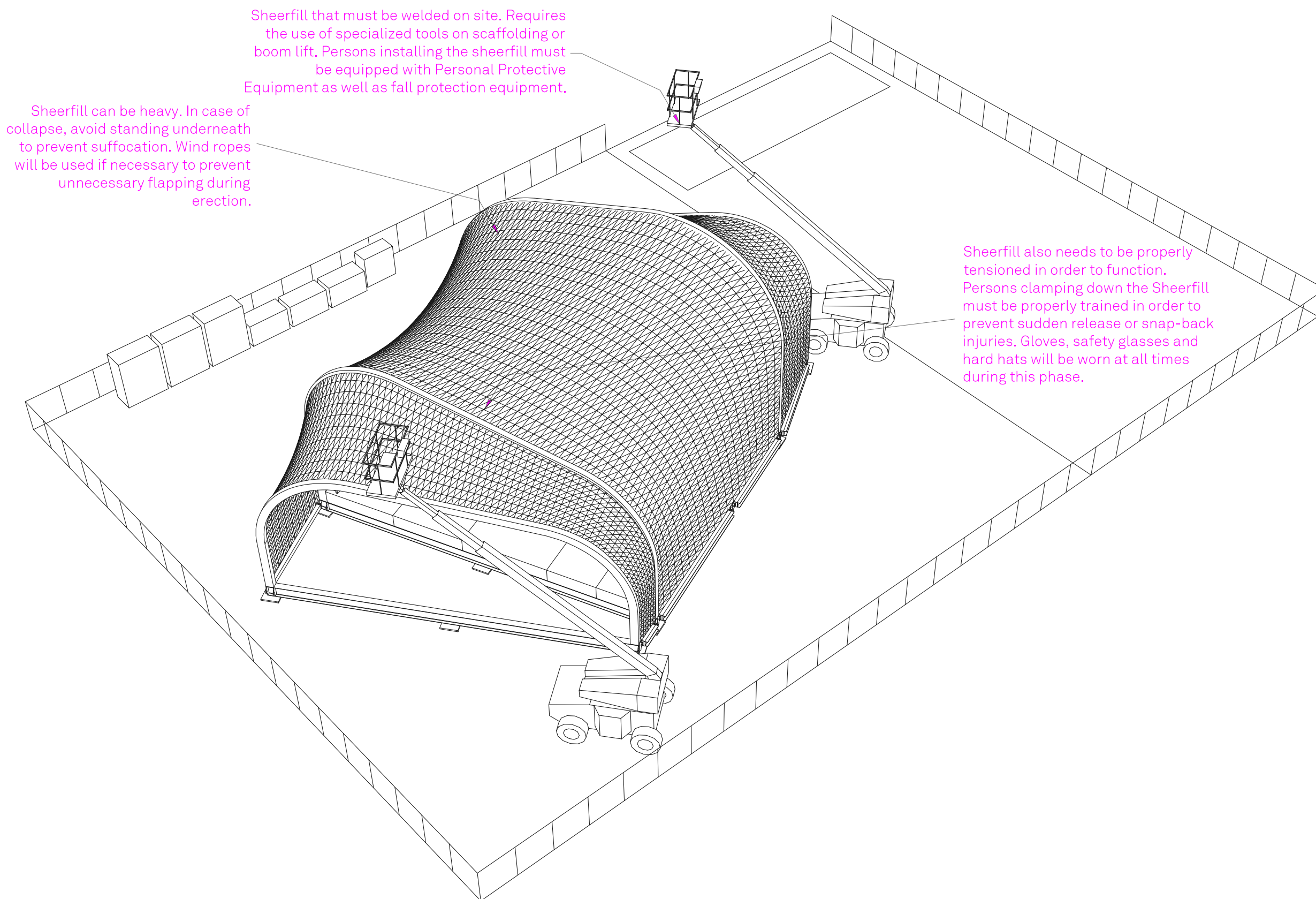
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STATUS: Deliverable #7

DATE: 3 November, 2014

SCALE: N/A



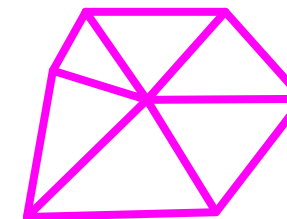
Sheerfill that must be welded on site. Requires the use of specialized tools on scaffolding or boom lift. Persons installing the sheerfill must be equipped with Personal Protective Equipment as well as fall protection equipment.

Sheerfill can be heavy. In case of collapse, avoid standing underneath to prevent suffocation. Wind ropes will be used if necessary to prevent unnecessary flapping during erection.

Sheerfill also needs to be properly tensioned in order to function. Persons clamping down the Sheerfill must be properly trained in order to prevent sudden release or snap-back injuries. Gloves, safety glasses and hard hats will be worn at all times during this phase.

1 SHEERFILL MEMBRANE INSTALLATION

HS-406



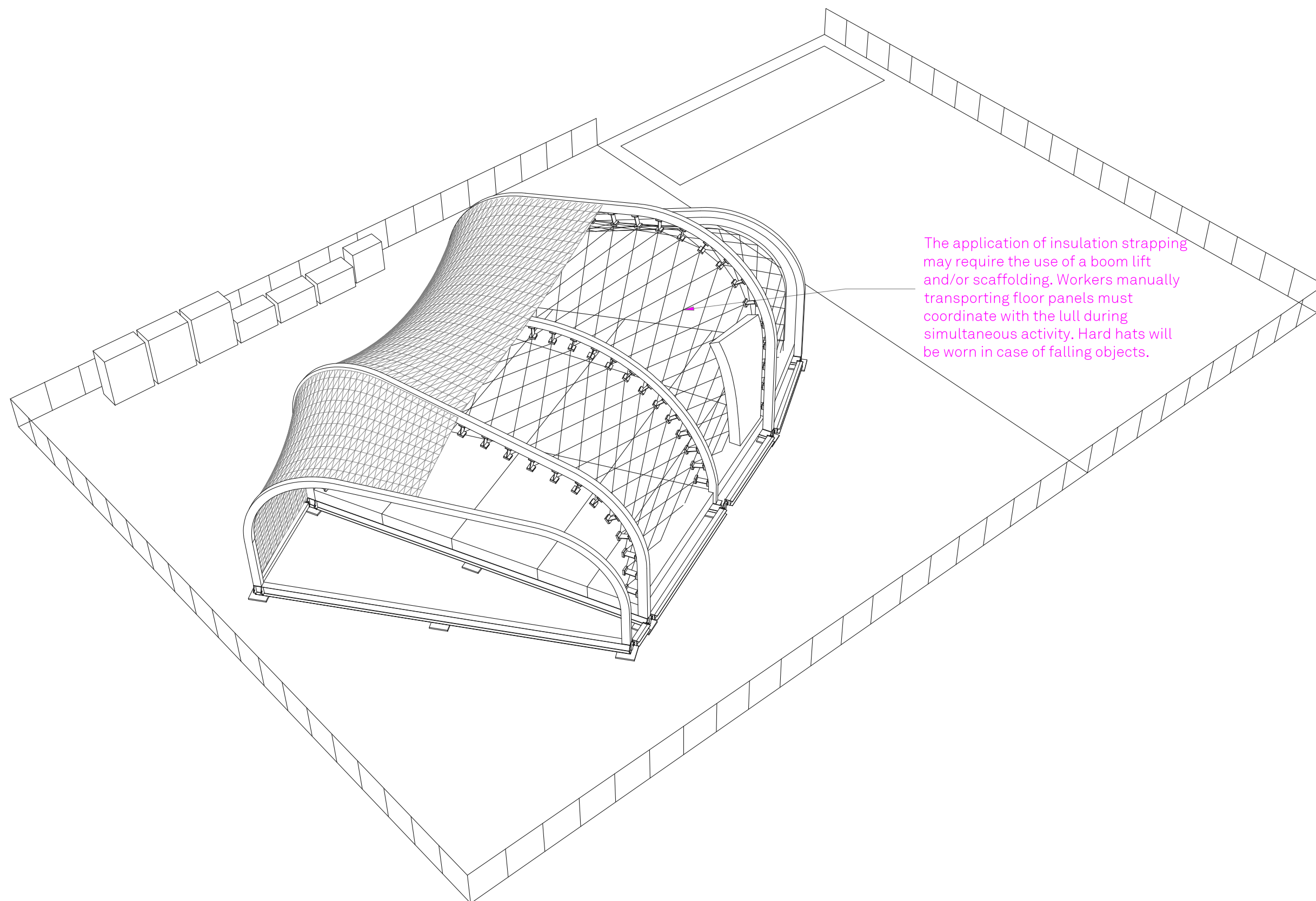
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The application of insulation strapping may require the use of a boom lift and/or scaffolding. Workers manually transporting floor panels must coordinate with the lull during simultaneous activity. Hard hats will be worn in case of falling objects.

1 INSTALLATION OF STRAPPING AND INSULATION

STAMP

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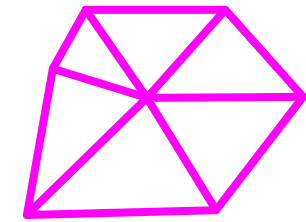
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HS-407



**TECHSTYLE
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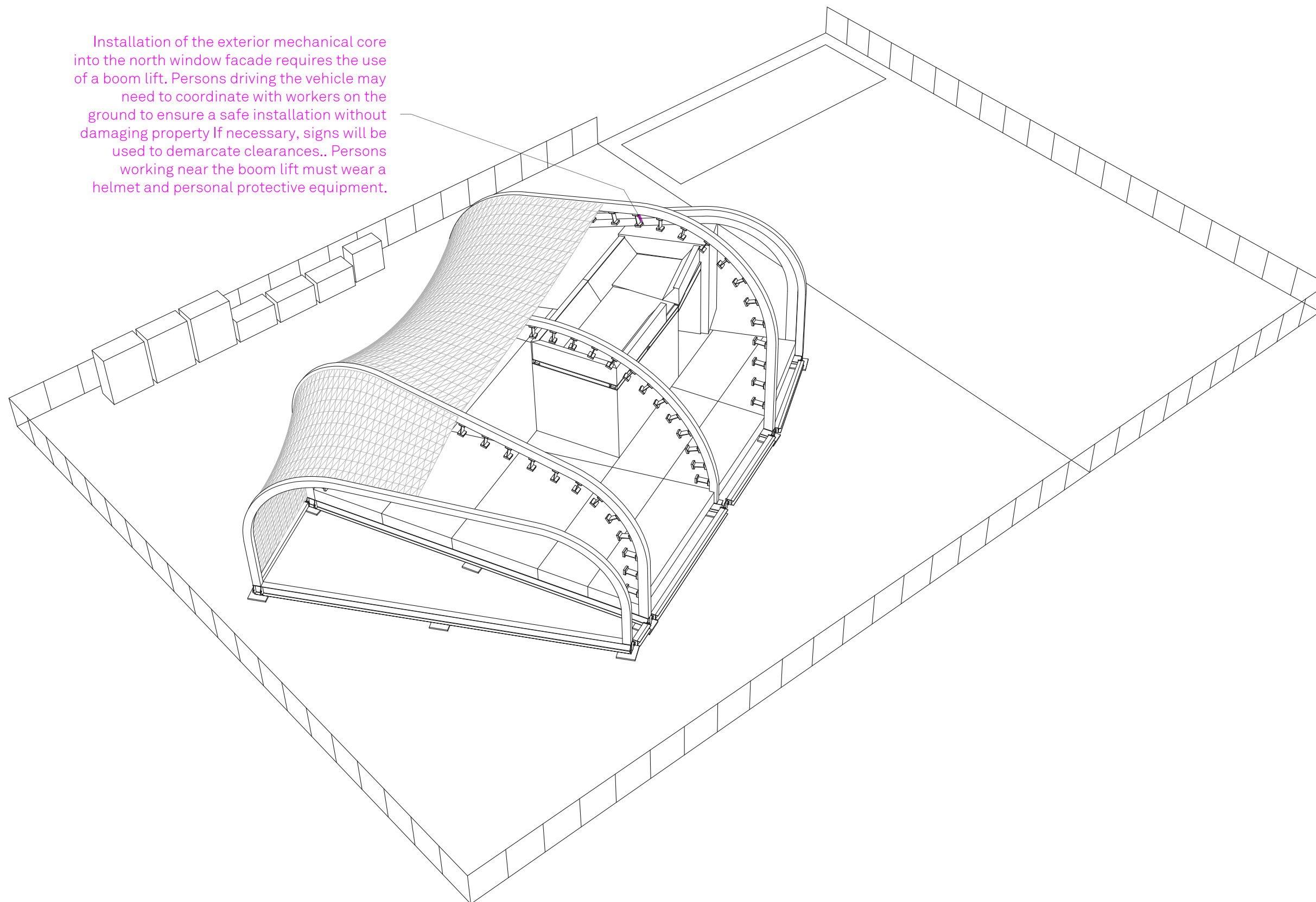
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Installation of the exterior mechanical core into the north window facade requires the use of a boom lift. Persons driving the vehicle may need to coordinate with workers on the ground to ensure a safe installation without damaging property. If necessary, signs will be used to demarcate clearances. Persons working near the boom lift must wear a helmet and personal protective equipment.



1 CORE INSTALLATION

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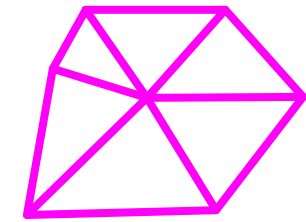
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HS-408



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DRAWN BY: Grace Wong

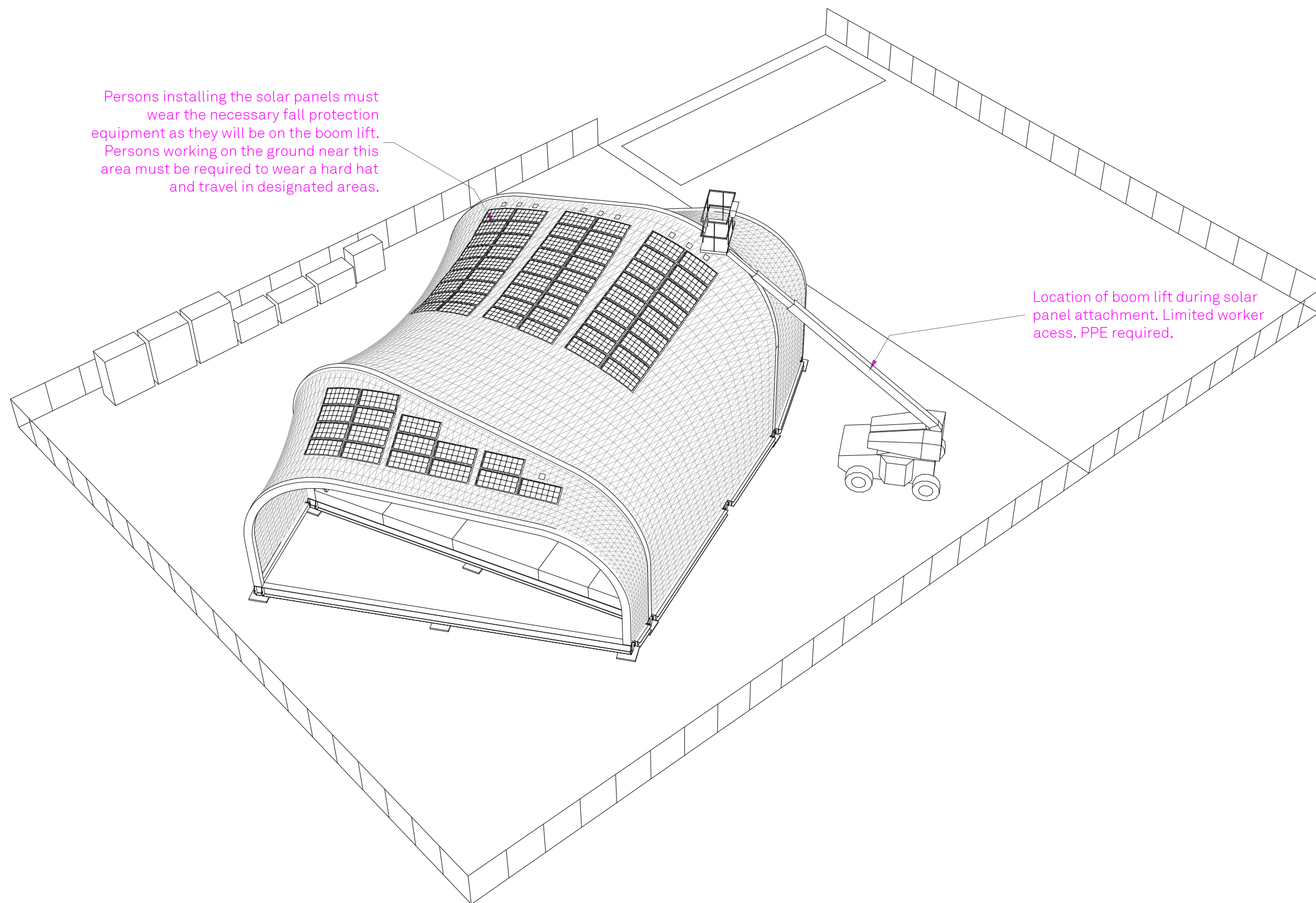
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STATUS: Deliverable #7

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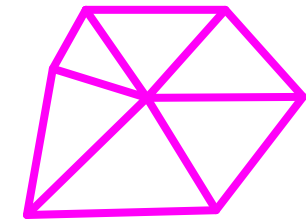
HS-409



Persons installing the solar panels must wear the necessary fall protection equipment as they will be on the boom lift. Persons working on the ground near this area must be required to wear a hard hat and travel in designated areas.

Location of boom lift during solar panel attachment. Limited worker access. PPE required.

1 INSTALLATION OF SOLAR ARRAY



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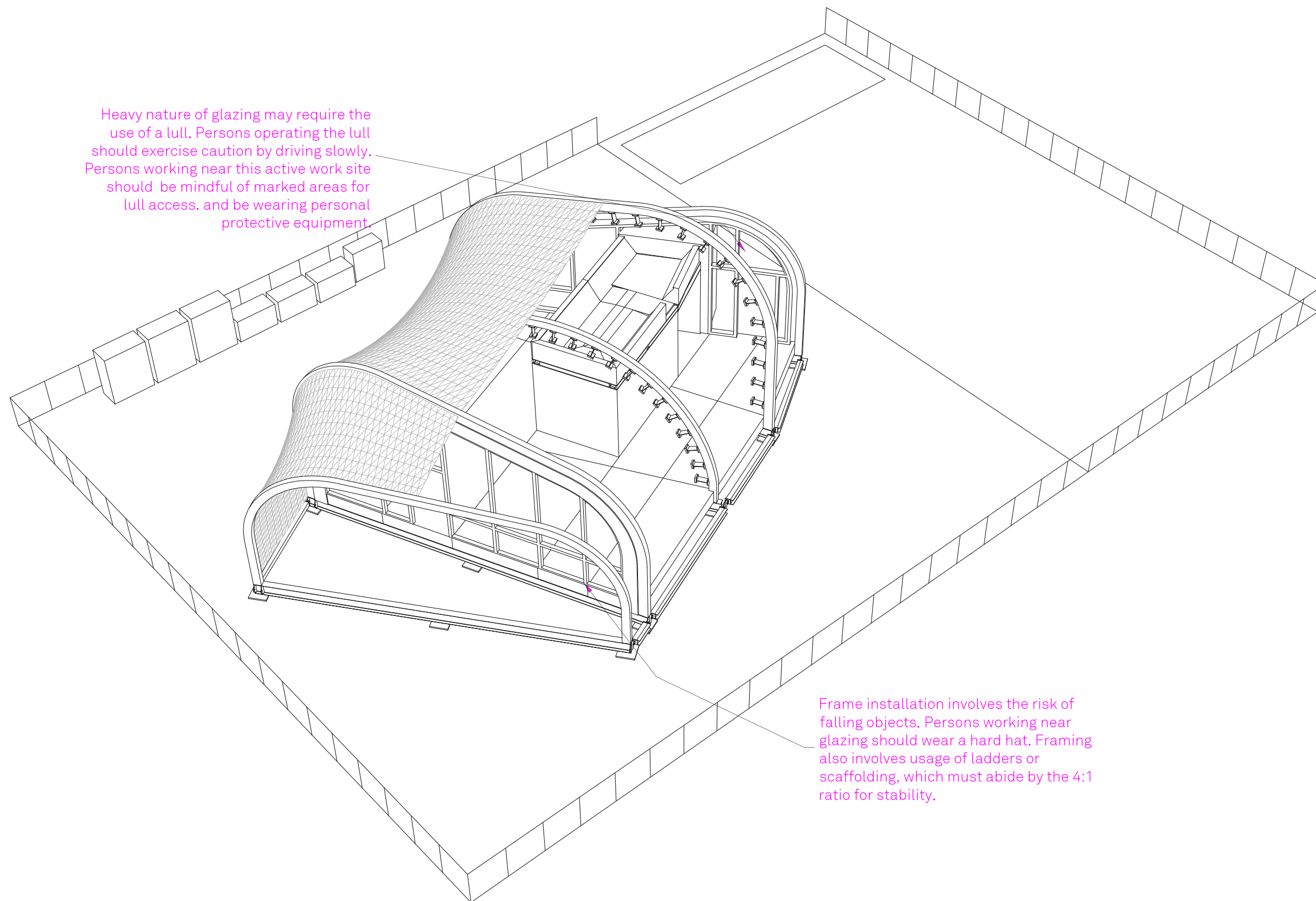
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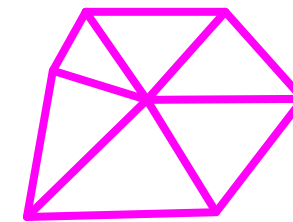
HS-410



Heavy nature of glazing may require the use of a lull. Persons operating the lull should exercise caution by driving slowly. Persons working near this active work site should be mindful of marked areas for lull access, and be wearing personal protective equipment.

Frame installation involves the risk of falling objects. Persons working near glazing should wear a hard hat. Framing also involves usage of ladders or scaffolding, which must abide by the 4:1 ratio for stability.

1 WINDOW INSTALLATION



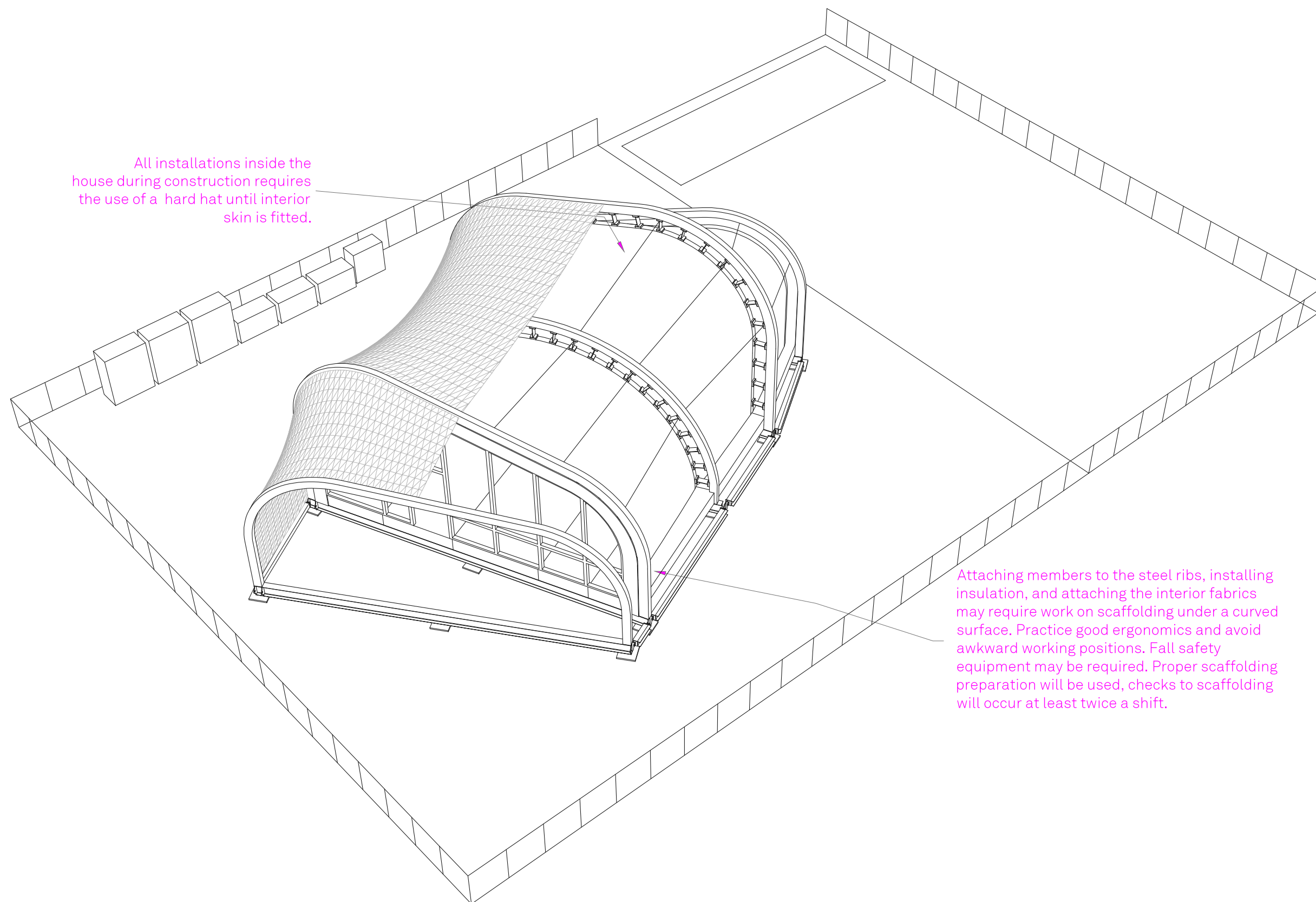
**TECHSTYLE
HAUS.**

INSIDE OUT

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All installations inside the house during construction requires the use of a hard hat until interior skin is fitted.

Attaching members to the steel ribs, installing insulation, and attaching the interior fabrics may require work on scaffolding under a curved surface. Practice good ergonomics and avoid awkward working positions. Fall safety equipment may be required. Proper scaffolding preparation will be used, checks to scaffolding will occur at least twice a shift.

1 INSTALLATION OF INTERIOR FABRIC

STAMP

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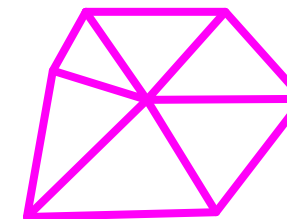
CHECKED BY: Jonathan Knowles

STATUS: Deliverable #7

DATE: 3 November, 2014

SCALE: N/A

HS-411



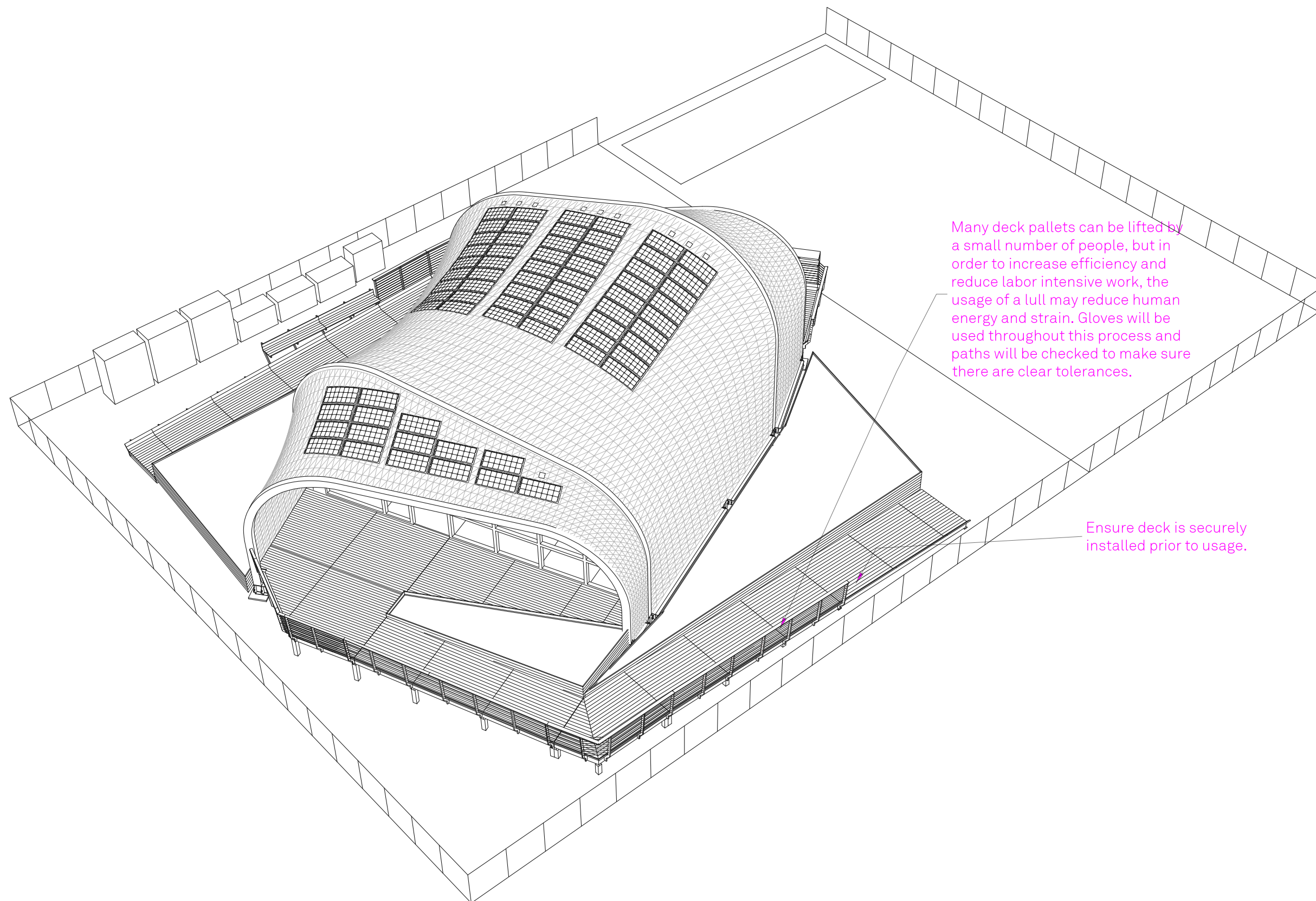
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Many deck pallets can be lifted by a small number of people, but in order to increase efficiency and reduce labor intensive work, the usage of a lull may reduce human energy and strain. Gloves will be used throughout this process and paths will be checked to make sure there are clear tolerances.

Ensure deck is securely installed prior to usage.

1 INSTALLATION OF DECKS AND PLANTERS

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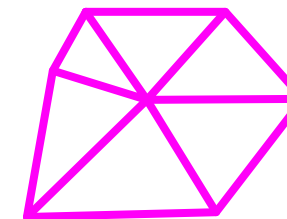
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STATUS: Deliverable #7

DATE: 3 November, 2014

SCALE: N/A

HS-412



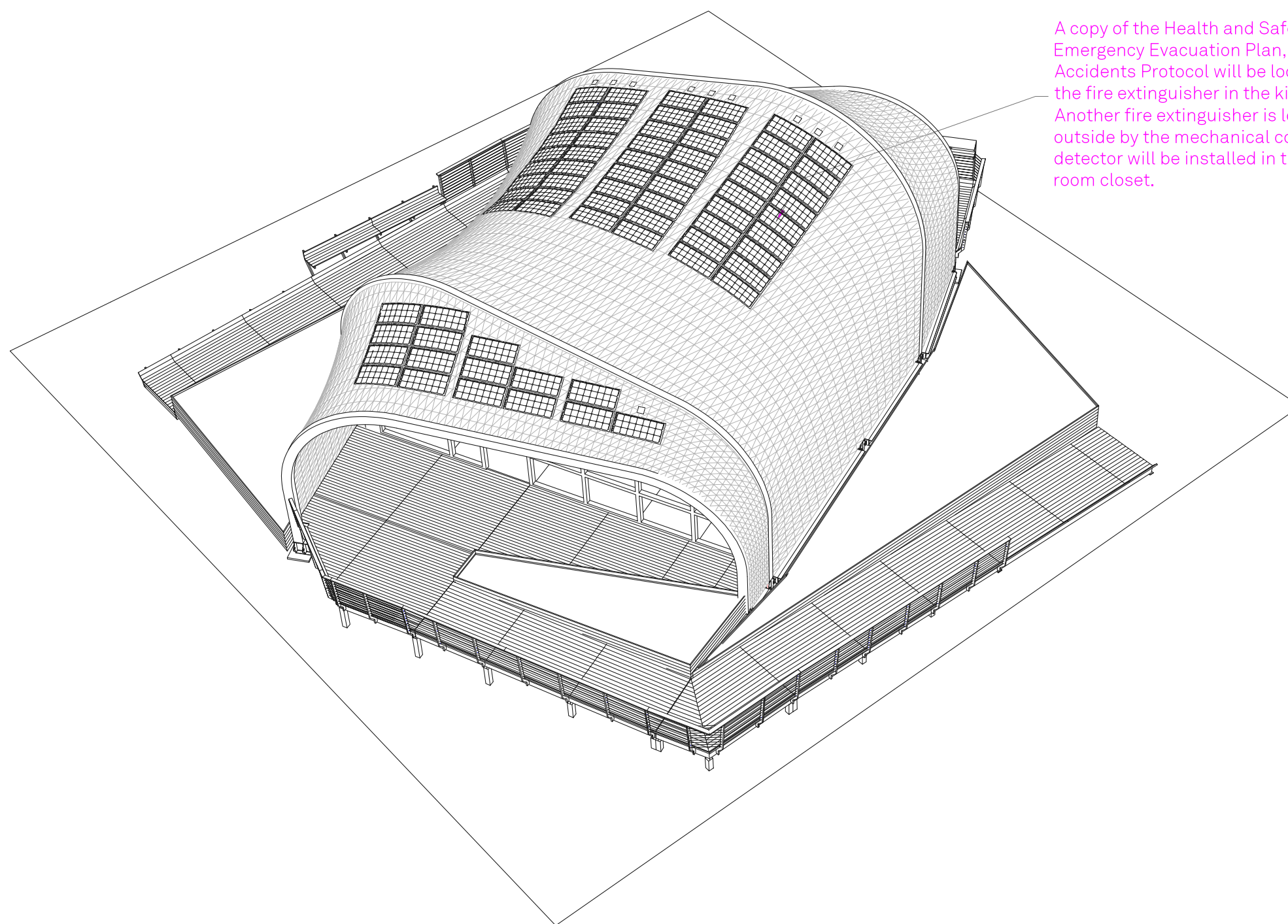
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A copy of the Health and Safety Plan, Emergency Evacuation Plan, and Accidents Protocol will be located near the fire extinguisher in the kitchen island. Another fire extinguisher is located outside by the mechanical core. A smoke detector will be installed in the changing room closet.

1 COMPLETED HOUSE

STAMP

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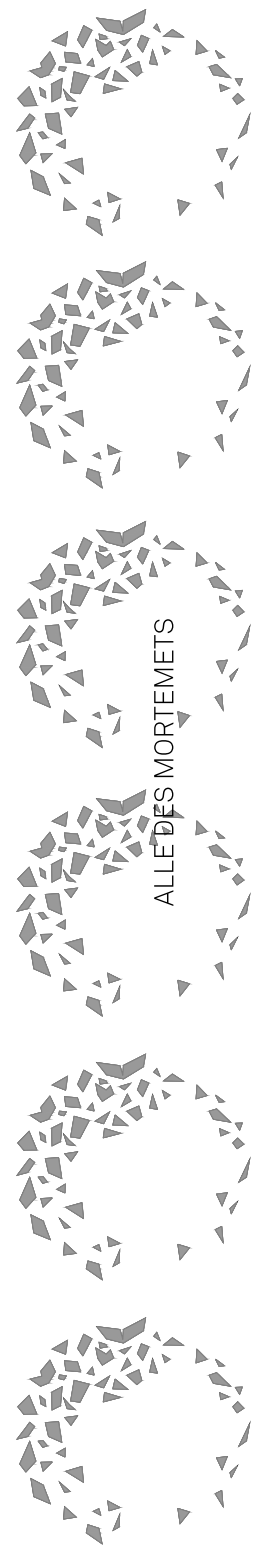
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STATUS: Deliverable #7

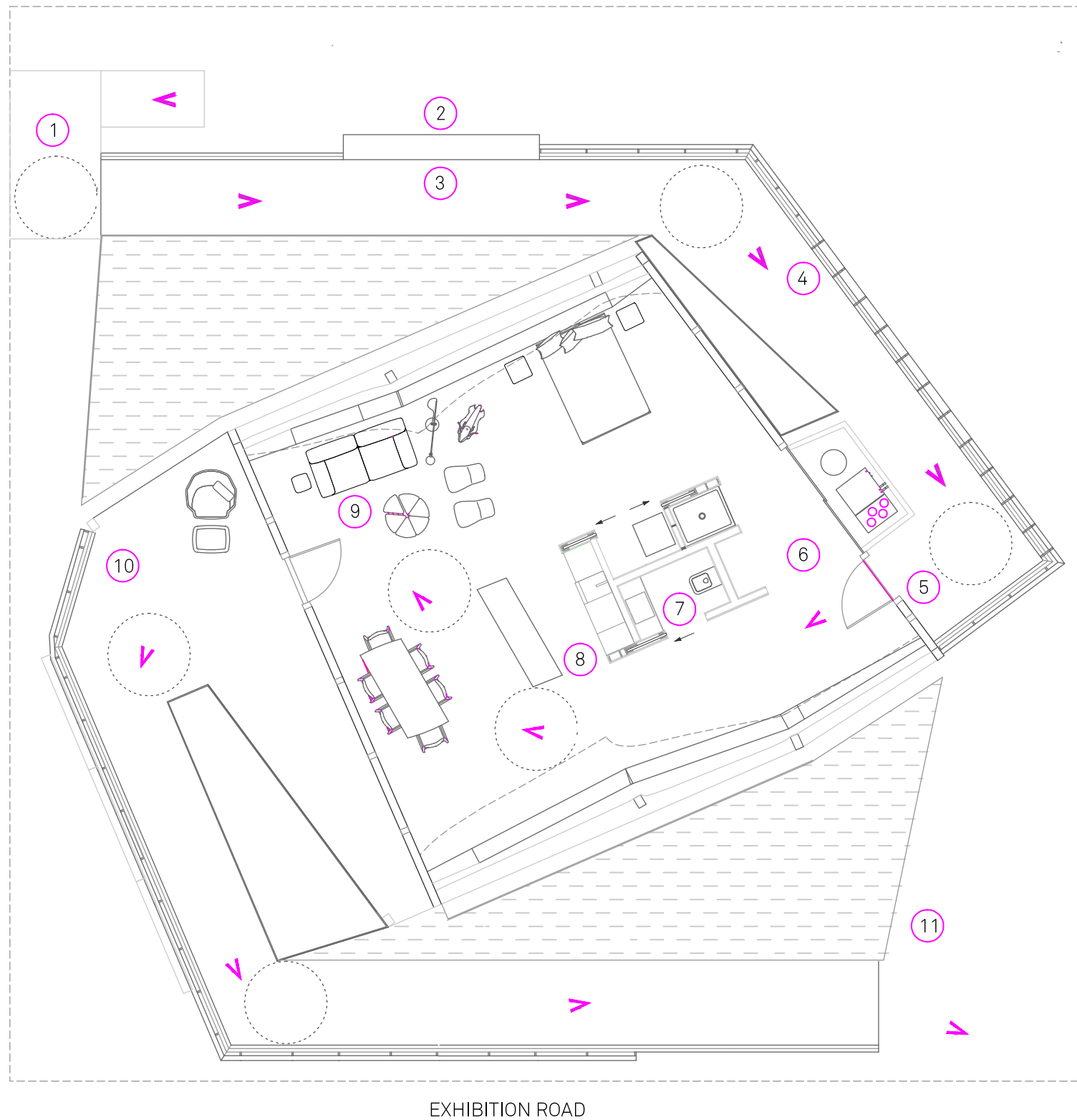
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SCALE: N/A

HS-413



CASA: TEAM MEXICO

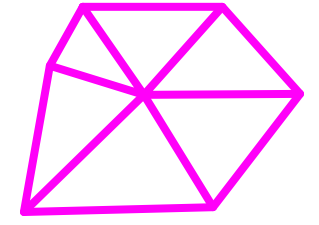


EXHIBITION ROAD

EXHIBITION ROAD

1 PUBLIC TOUR PLAN

- 1 Introduction - Two guides at starting point to engage visitors in talking about the house. Language flags will be given to those who need tours in French or German and translators will be on standby.
- 2 Children's Area - Play area for children to discover and learn about alternative energy solutions through simple toys and games. Coloring postcards and other goodies will also be distributed here.
- 3 Gardens, greywater, & ramp – 1 Tablet explains will explain types of plants, purposes, agricultural impact, look at the greywater/rainwater filtration system, and the RISD designed photoluminescent points.
- 4 The handrail at the deck transforms into a "material library" that displays different materials and textiles used in the house. There will be a scavenger hunt to find the materials in the house.
- 5 A guide, posted at the north entrance, reduces queue flow and invites 16 visitors to begin the tour of TECHSTYLE HAUS.
- 6 Core, loft (architecture) – One guide posted in the vestibule changing area explains the architectural aspects of the core and loft.
- 7 Core, loft (mechanical) - One guide with a tablet posted in the bathroom explains the technical systems running inside of the core such as HVAC, lighting, plumbing.
- 8 Wall systems - One guide with a tablet posted at the kitchen counter will discuss the materiality and performance in the walls of our house.
- 9 Bedroom, living room furniture - One guide looks at Vitra, RISD designed furnishings and the living spaces they inhabit.
- 10 Solar PV, solar thermal, additional questions - One guide stands at the southern patio to talk about the flexible solar panels and solar thermal tubes. The guide will also answer any additional questions about the tour.
- 11 Fabric concrete demo: An outdoor chair made of concrete fabric will be on display outside the southern deck.



TECHSTYLE HAUS.

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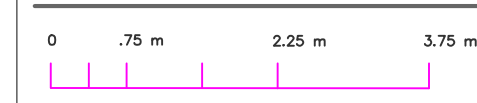
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SCALE: 1:75



PT-201