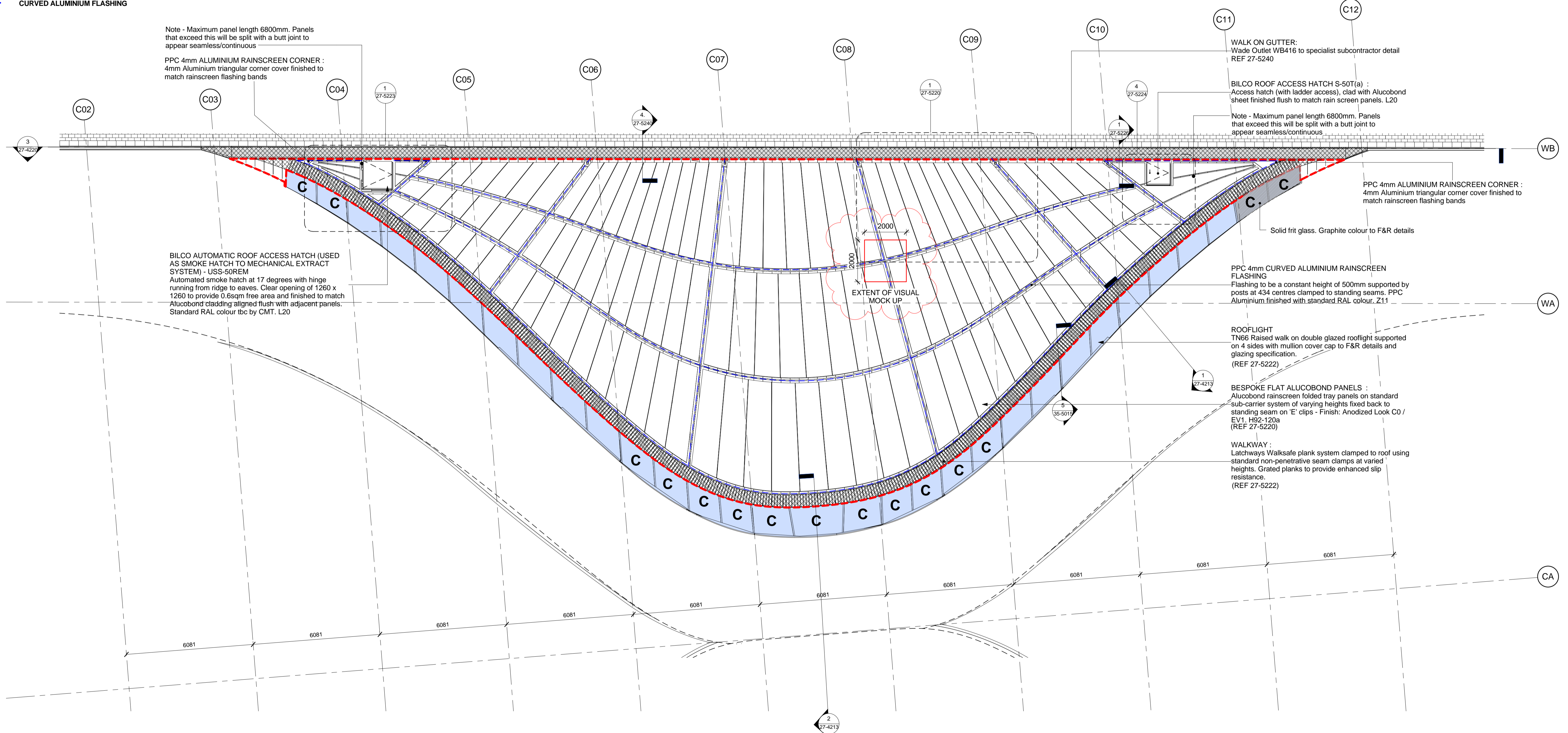


Roof Type Area Legend

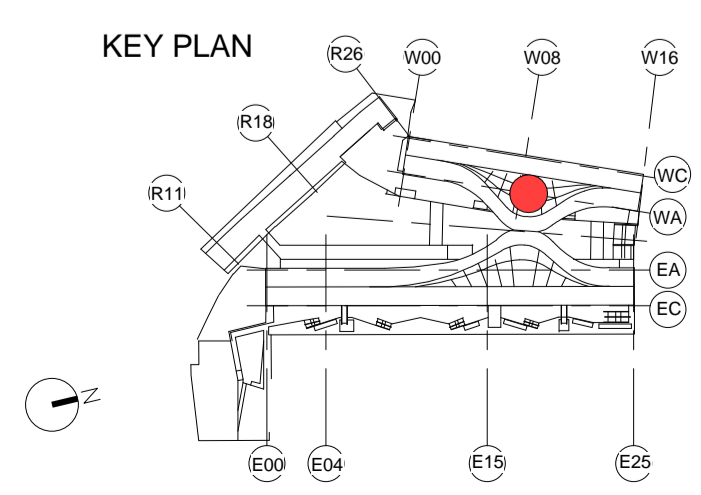
- STANDING SEAM** - Total notional area of cheeks (WCD-494sqm + ECD-566sqm)= 1060sqm
- ALUCOBOND RAINSCREEN PANELS** - Total notional area of cheeks (WCD+ECD)= 863sqm
- ACCESS WALKWAY** - Area: Refer to drawing 27-522
- WALK ON GUTTER** - Area: (WCD+ECD)= 76sqm
- WALK-ON ROOFLIGHTS** - Area: Refer to drawing 27-522
- C** **CURVED EDGE ROOFLIGHTS**
- CURVED ALUMINIUM FLASHING**

DO NOT SCALE FROM THIS DRAWING.
 ALL DIMENSIONS TO BE CHECKED ON SITE.
 FOR REFERENCED VIEWS REFER TO SERIES OF DRAWINGS KXC-M1-001-A-(27)

NOTE:
 DIMENSIONS GIVEN ON THIS DRAWING ARE INDICATIVE AND PROVIDED IN ORDER TO GIVE A NOTIONAL SIZE FOR THE PANELS



REV	BY	CHKD	DATE	DESCRIPTION
08	JN	MWB	06/01/17	Mock Up extent added
07	JN	MWB	28/11/16	Notes updated.
06	JN	MWB	12/08/16	Notes updated. Solid frit rooflights identified
05	DCW	MWB	14/01/16	General updates for CP
04	JN	MWB	22/12/15	Structural bracing removed from rooflight void. Curved edge glass indicated
03	JN	MWB	03/12/15	Notes updated
02	JN	MWB	30/11/15	Glazing division aligned with primary structure. Position of smoke extract hatch updated. Extent of visible structure in rooflight void added. Standing seam outline updated
01	JN	MWB	14/10/15	Updated to reflect revised geometry and extents



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project **COAL DROPS YARD**

title **M1 Cheek Setout Plan**

purpose of issue **CONSTRUCTION**

scale **As indicated @ A1** drawn **BAM D** BAM job no. dsg. status

date **05/06/15** checked **MB** 4389 **S4**

site **01727 894200** consultant **MB** Role **CKSFB** Content

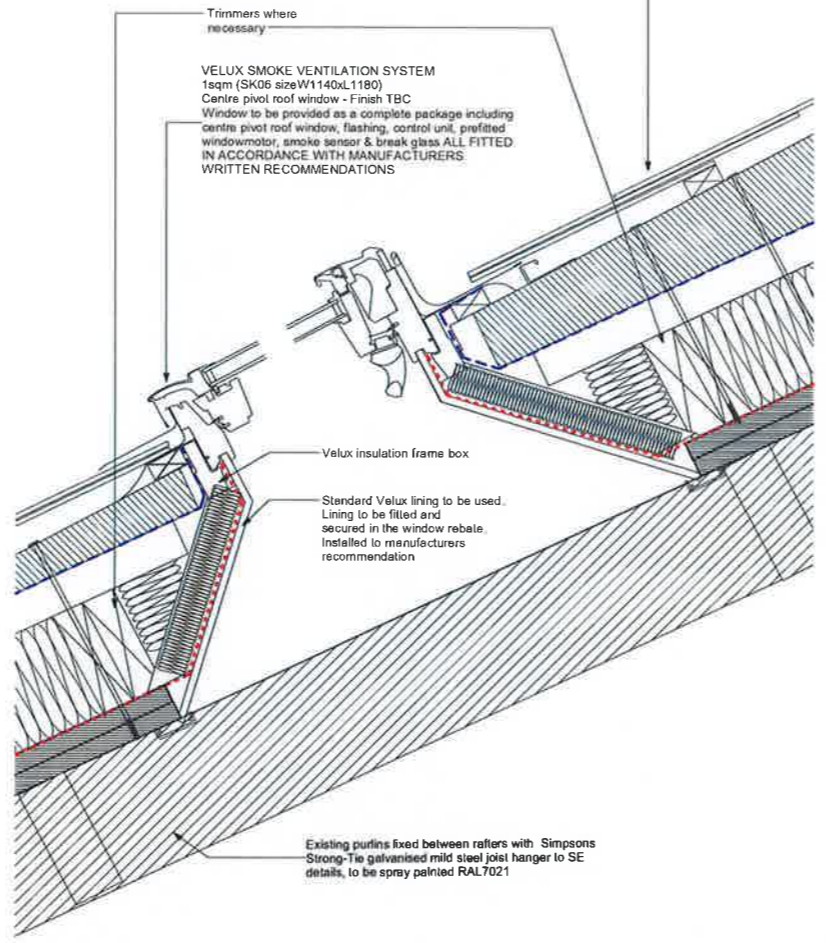
dsg / doc ref **KXC-M1- 001-BD4389-A-27-4221** rev **008**

DO NOT SCALE FROM THIS DRAWING
 ALL DIMENSIONS TO BE CHECKED ON SITE
 FOR REFERENCED VIEWS REFER TO SERIES OF DRAWINGS KXC-M1-001-A

Refer MO-01-A27-5240
 Detail 1

TYPE 1 ROOF CONSTRUCTION
 Warm Slate pitched Roof (28°) Consisting of Double lapped 500mm x 300mm Cwl-y-Bugall Dark Blue Graywale slate lie with min 90mm head-lap fixed with recess copper nails fixed through to SW battens (50 x 25 @ 205mm CL) fixed to Furrings onto Counter 50x50 counter battens which are fixed through the insulation boards in to the composite base of plywood and sarking board using InSkew Super 6, 6 x 215mm long fixings, installed along the counter battens at 150mm centers in order to achieve an average density of 11.1 fixings per m² with Breathable Roofing underlay lepped over 125mm PIR Kingspan TP10 Thermapitch insulation on 25mm WBP Ply on 25mm existing sarking boards with vapour permeable underlay, min u-value of 0.18W/m²K Ref Arch spec [H62]

VELUX SMOKE VENTILATION SYSTEM
 1sqm (SK05 size W1140xL1180)
 Centre pivot roof window - Finish TBC
 Window to be provided as a complete package including centre pivot roof window, flashing, control unit, prefitted window motor, smoke sensor & break glass ALL FITTED IN ACCORDANCE WITH MANUFACTURERS WRITTEN RECOMMENDATIONS



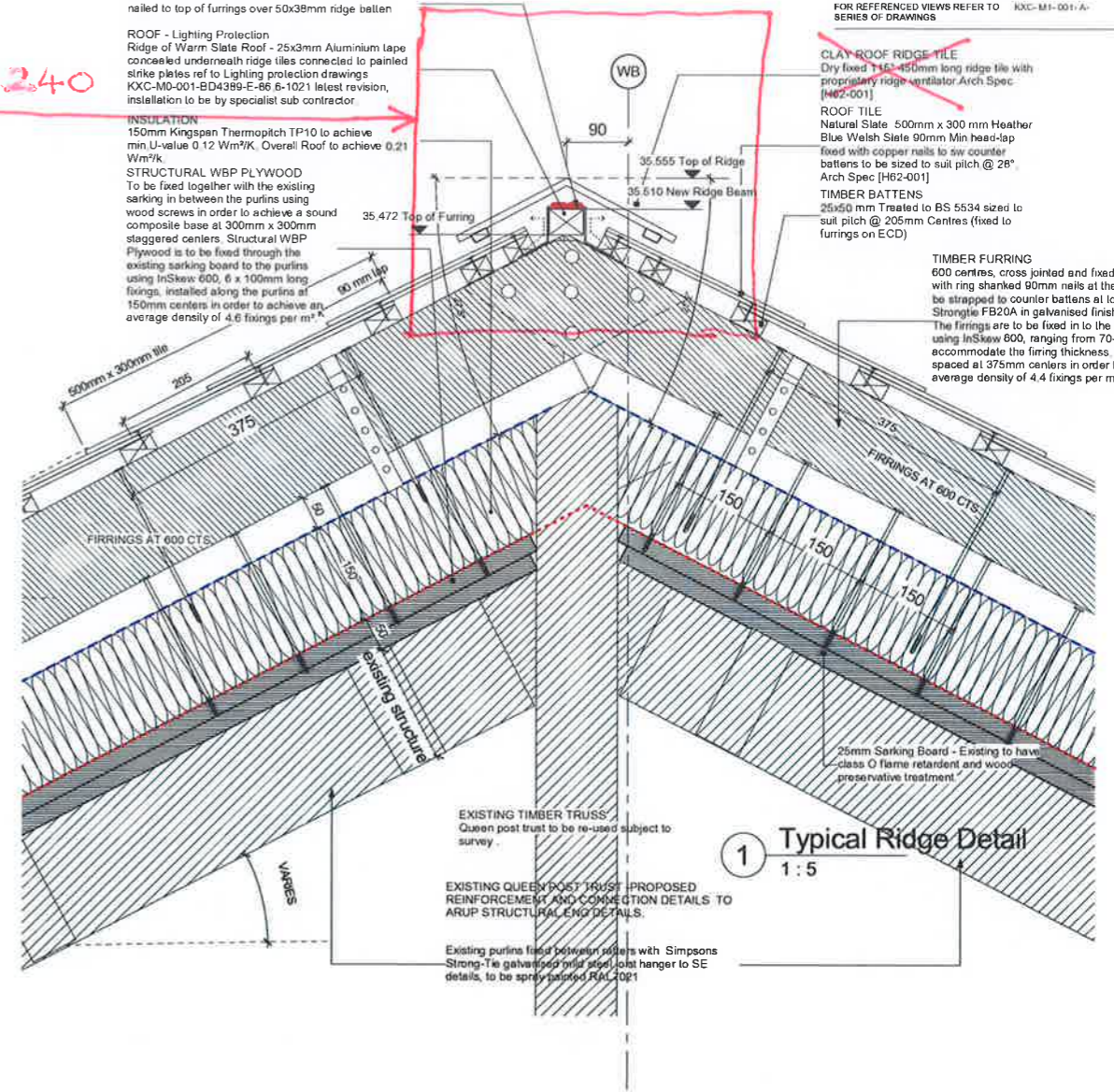
2 Roof Smoke Vent
 1:5

METAL RIDGE STRAP
 nailed to top of furrings over 50x38mm ridge batten

ROOF - Lighting Protection
 Ridge of Warm Slate Roof - 25x3mm Aluminium tape concealed underneath ridge tiles connected to painted strike plates ref to Lighting protection drawings KXC-M0-001-BD4389-E-86.6-1021 latest revision, installation to be by specialist sub contractor

INSULATION
 150mm Kingspan Thermapitch TP10 to achieve min U-value 0.12 Wm²/K Overall Roof to achieve 0.21 Wm²/K

STRUCTURAL WBP PLYWOOD
 To be fixed together with the existing sarking in between the purfins using wood screws in order to achieve a sound composite base at 300mm x 300mm staggered centers. Structural WBP Plywood is to be fixed through the existing sarking board to the purfins using InSkew 600, 6 x 100mm long fixings, installed along the purfins at 150mm centers in order to achieve an average density of 4.6 fixings per m².



1 Typical Ridge Detail
 1:5

Key Roof Membrane

- Tyvek supro
- Dupont Airguard -VCL

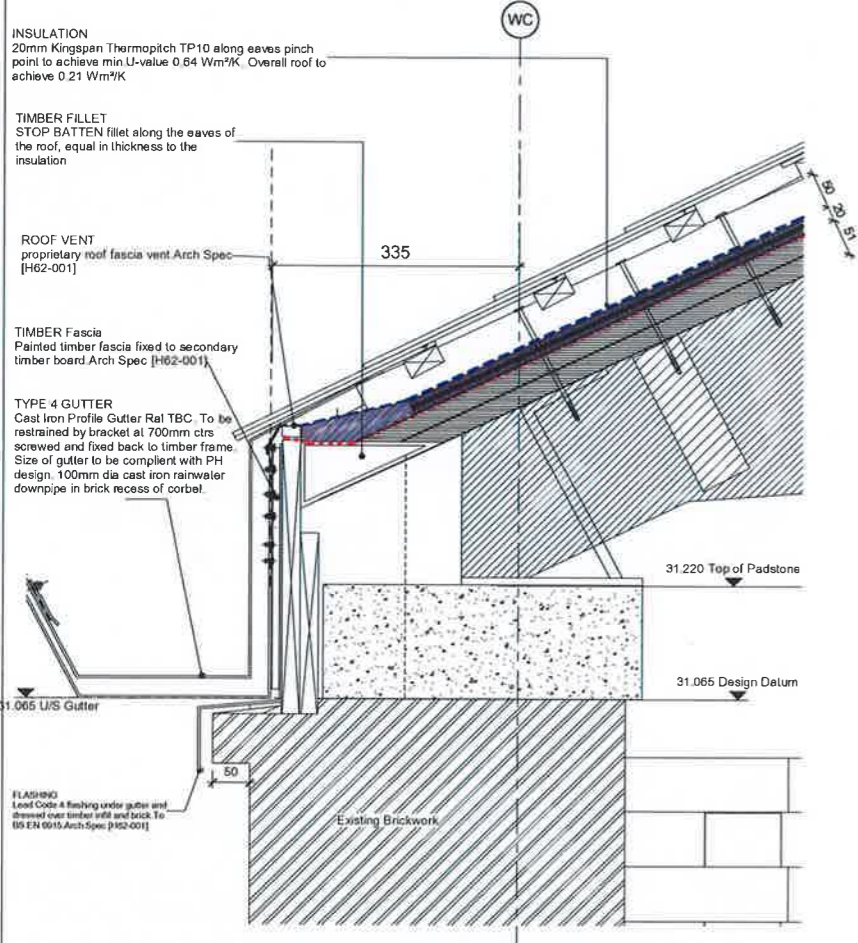
INSULATION
 20mm Kingspan Thermapitch TP10 along eaves pinch point to achieve min U-value 0.64 Wm²/K Overall roof to achieve 0.21 Wm²/K

TIMBER FILLET
 STOP BATTEN fillet along the eaves of the roof, equal in thickness to the insulation

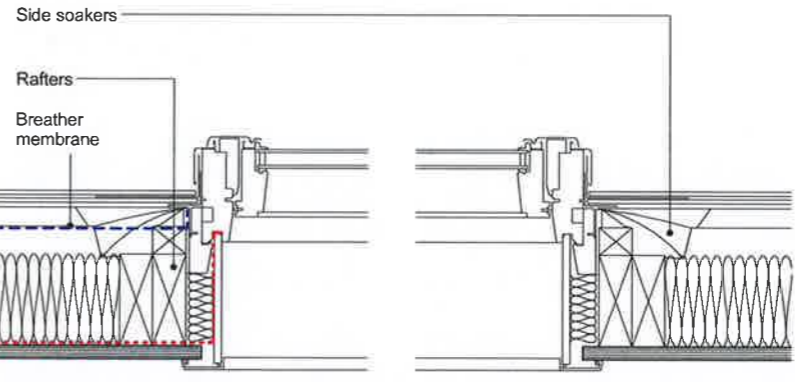
ROOF VENT
 proprietary roof fascia vent Arch Spec [H62-001]

TIMBER Fascia
 Painted timber fascia fixed to secondary timber board Arch Spec [H62-001]

TYPE 4 GUTTER
 Cast iron Profile Gutter Ral TBC. To be restrained by bracket at 700mm ctrs screwed and fixed back to timber frame. Size of gutter to be compliant with PH design, 100mm dia cast iron rainwater downpipe in brick recess of corbel.



3 Eaves Detail
 1:5



4 Roof Smoke Vent - Detail Plan
 1:5

Status Code (as defined in BS1192)
 Work in Progress (WIP)
 B0 - Initial Status or WIP
Shades
 B1 - Issued for co-ordination
 B2 - Issued for information
 B3 - Issued for internal review
 B4 - Issued for construction approval
Documentation (Pre-construction)
 D1 - Issued for costing
 D2 - Issued for tender

Documentation (Contract)
 A - Issued for construction
 B - Issued for construction but with comments
 C - Comprehensive revision required
Archive
 AB - Record Drawing

Documentation (Post-construction)
 O1 - Issued for costing
 O2 - Issued for tender

No.	Rev.	Date	Description
005	VH	MWB	06/07/16 Updated to suit comments dated 29.06.16. Truss updated to site survey levels.
004	VH	MWB	17/05/16 Roof gutter details amended. Construction tasks.
003	PD	MWB	20/01/16 Pitch revised to 27 deg. valak note removed.

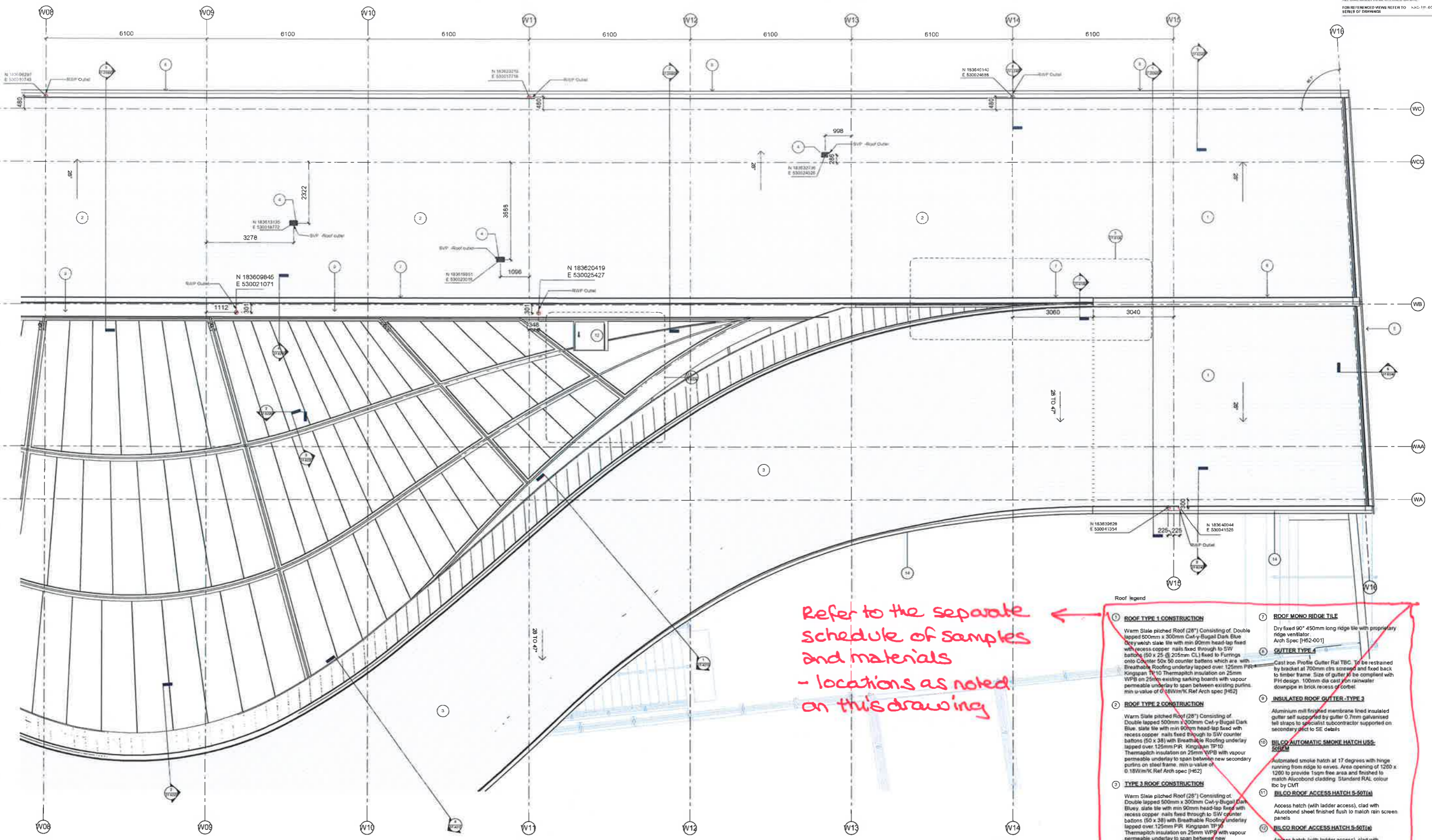


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PROJECT COAL DROPS YARD
 Mr Typical Slate Detail-AOV
 Construction
 scale 1:5 @ A1
 date 05/06/15
 checked MWB
 4389
 S4
 005

CONTINUATION M0-ZONE 02 - DWG 27-102105

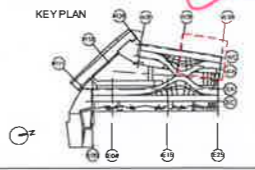
DO NOT SCALE FROM THIS DRAWING
ALL DIMENSIONS TO BE CHECKED ON SITE
FOR REFERENCE VIEWS REFER TO SCALE OF DRAWING



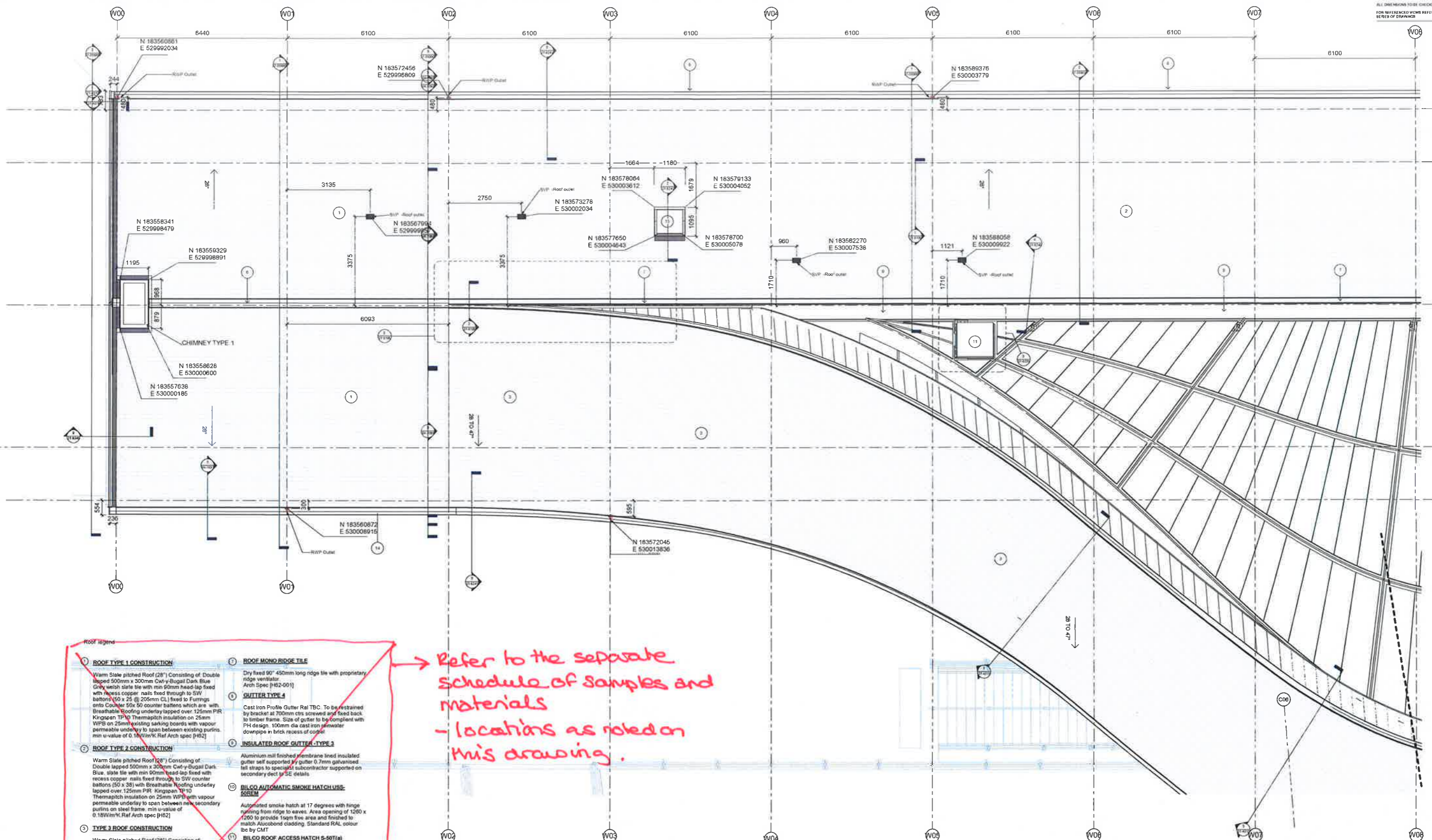
1 1-50 - M1 -Roof Plan Zone 01
1:50

Refer to the separate
schedule of samples
and materials
- locations as noted
on this drawing

- Roof legend
- 1 **ROOF TYPE 1 CONSTRUCTION**
Warm Slate pitched Roof (28°) Consisting of: Double lapped 500mm x 300mm Cw-y-Bugald Dark Blue Greyish slate tile with min 60mm head-lap fixed with recess copper nails fixed through to SW battens (50 x 25 @ 205mm CL) fixed to Furrings onto Cooper 50x50 counter battens which are with Breathable Roofing underlay lapped over: 125mm PIR Kingspan TP10 Thermaplatch insulation on 25mm WPB on 25mm existing barking boards with vapour permeable underlay to span between existing purlins. min u-value of 0.18W/m²K. Ref Arch spec [H02]
 - 2 **ROOF TYPE 2 CONSTRUCTION**
Warm Slate pitched Roof (28°) Consisting of: Double lapped 500mm x 300mm Cw-y-Bugald Dark Blue slate tile with min 60mm head-lap fixed with recess copper nails fixed through to SW counter battens (50 x 38) with Breathable Roofing underlay lapped over: 125mm PIR Kingspan TP10 Thermaplatch insulation on 25mm WPB with vapour permeable underlay to span between new secondary purlins on steel frame. min u-value of 0.18W/m²K. Ref Arch spec [H02]
 - 3 **TYPE 3 ROOF CONSTRUCTION**
Warm Slate pitched Roof (28°) Consisting of: Double lapped 500mm x 300mm Cw-y-Bugald Dark Blue slate tile with min 60mm head-lap fixed with recess copper nails fixed through to SW counter battens (50 x 38) with Breathable Roofing underlay lapped over: 125mm PIR Kingspan TP10 Thermaplatch insulation on 25mm WPB with vapour permeable underlay to span between new secondary purlins on steel frame. min u-value of 0.18W/m²K. Ref Arch spec [H02]
 - 4 **ROOF TILE VENT**
400mm x 250mm Kjöber or sim approved Mini Uni-Line slate vent below natural double-lap slates Above SVP position Arch Spec [H02]
 - 5 **GABLE BOARD**
Code 4 Lead clad fascia board with wetted joints. Fixed to Softwood painted and treated barge board.
 - 6 **CLAY ROOF RIDGE TILE**
Dry fixed 115° 450mm long ridge tile with proprietary ridge ventilator Arch Spec [H02]
 - 7 **ROOF MONO RIDGE TILE**
Dry fixed 90° 450mm long ridge tile with proprietary ridge ventilator Arch Spec [H02-001]
 - 8 **GUTTER TYPE 4**
Cast Iron Profile Gutter Ral TBC. To be restrained by bracket at 600mm c/c screws and fixed back to timber frame. Size of gutter to be compliant with PH design. 100mm dia cast iron rainwater downpipe in brick recess of corbel.
 - 9 **INSULATED ROOF GUTTER TYPE 3**
Aluminium mill finished membrane lined insulated gutter self supported by gutter 0.7mm galvanneal fell straps to specialist subcontractor supported on secondary steel to SE details
 - 10 **BILCO AUTOMATIC SMOKE HATCH LOSS SOLEM**
Automated smoke hatch at 17 degrees with hinge running from ridge to eaves. Area opening of 1200 x 1200 to provide 1sqm free area and finished to match Alucobond cladding. Standard RAL colour tbc by CMT
 - 11 **BILCO ROOF ACCESS HATCH S-501A**
Access hatch (with ladder access), clad with Alucobond sheet finished flush to match rain screen panels
 - 12 **BILCO ROOF ACCESS HATCH S-501B**
Access hatch (with ladder access), clad with Alucobond sheet finished flush to match rain screen panels
 - 13 **FALL ARREST SYSTEM**
Latchway constant force post fixed at rainscreen pane joints to standing seam at min 8m centres
 - 14 **TYPE 2 GUTTER**
Profile Gutter to F&R Detail Ral TBC. To be restrained by bracket at 600mm c/c screws and fixed back to timber frame. Size of gutter to be compliant with PH design. 100mm dia rainwater downpipe in brick recess of corbel.
 - 15 **VELUX SMOKE VENTILATION SYSTEM**
1sqm (BK06 size W1140xL1180) Centre pivot roof window - Finish TBC Windows to be supplied as a complete package including centre pivot roof window, testing certificate, prefired window motor, smoke sensor & break glass.



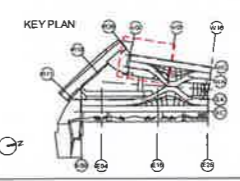
CONTINUATION M0-ZONE 01 - DWG 27-102104



- Roof legends**
- 1. **ROOF TYPE 1 CONSTRUCTION**
 Warm Slate pitched Roof (28°) Consisting of: Double lapped 500mm x 300mm Cw-y-Bugall Dark Blue Grey Welsh slate tile with min 50mm head-lap fixed with recess copper nails fixed through to SWV battens (50 x 25 @ 205mm CL) fixed to Furrings onto Counter 50x50 counter battens which are with Breathable Roofing underlay lapped over 125mm PIR Kingspan TP10 Thermpitch insulation on 25mm WVP on 25mm existing sarking boards with vapour permeable underlay to span between existing purlins. min u-value of 0.18W/m²K Ref Arch spec [H02]
 - 2. **ROOF TYPE 2 CONSTRUCTION**
 Warm Slate pitched Roof (28°) Consisting of: Double lapped 500mm x 300mm Cw-y-Bugall Dark Blue slate tile with min 50mm head-lap fixed with recess copper nails fixed through to SWV counter battens (50 x 38) with Breathable Roofing underlay lapped over 125mm PIR Kingspan TP10 Thermpitch insulation on 25mm WVP with vapour permeable underlay to span between new secondary purlins on steel frame. min u-value of 0.18W/m²K Ref Arch spec [H02]
 - 3. **TYPE 3 ROOF CONSTRUCTION**
 Warm Slate pitched Roof (28°) Consisting of: Double lapped 500mm x 300mm Cw-y-Bugall Dark Blue slate tile with min 50mm head-lap fixed with recess copper nails fixed through to SWV counter battens (50 x 38) with Breathable Roofing underlay lapped over 125mm PIR Kingspan TP10 Thermpitch insulation on 25mm WVP with vapour permeable underlay to span between new secondary purlins on steel frame. min u-value of 0.18W/m²K Ref Arch spec [H02]
 - 4. **ROOF TILE VENT**
 400mm x 250mm Kober or sim approved Mini Lin-Line slate vent below natural double-lap slates Above SWV position Arch Spec [H02]
 - 5. **CABLE BOARD**
 Code 4 Lead clad fascia board with welded joints. Fixed to Softwood painted and treated barge board.
 - 6. **CLAY ROOF RIDGE TILE**
 Dry fixed 115° 450mm long ridge tile with proprietary ridge ventilator Arch Spec [H02]
 - 7. **ROOF MONO RIDGE TILE**
 Dry fixed 90° 450mm long ridge tile with proprietary ridge ventilator Arch Spec [H02-001]
 - 8. **GUTTER TYPE 4**
 Cast Iron Profile Gutter Ral TBC. To be restrained by bracket at 700mm c/c's screwed and fixed back to timber frame. Size of gutter to be compliant with PH design. 100mm dia cast iron rainwater downpipe in brick recess of corbel.
 - 9. **INSULATED ROOF GUTTER - TYPE 3**
 Aluminium mill finished membrane lined insulated gutter self supported by gutter 0.7mm galvanneel fall straps to specialist subcontractor supported on secondary deck to SE details.
 - 10. **BILCO AUTOMATIC SMOKE HATCH LUIS-50REM**
 Automated smoke hatch at 17 degrees with hinge running from ridge to eaves. Area opening of 1200 x 1200 to provide 1sqm free area and finished to match Alucobond cladding. Standard RAL colour lbc by CMT.
 - 11. **BILCO ROOF ACCESS HATCH S-50(a)**
 Access hatch (with ladder access), clad with Alucobond sheet finished flush to match rain screen panels.
 - 12. **BILCO ROOF ACCESS HATCH S-50(b)**
 Access hatch (with ladder access), clad with Alucobond sheet finished flush to match rain screen panels.
 - 13. **FALL ARREST SYSTEM**
 Latchway constant force post fixed at rainscreen pane joints to standing seam at min 8m centres.
 - 14. **TYPE 2 GUTTER**
 Profile Gutter to FAR Detail Ral TBC. To be restrained by bracket at 600mm c/c's, screwed and fixed back to timber frame. Size of gutter to be compliant with PH design. 100mm dia rainwater downpipe in brick recess of corbel.
 - 15. **VELUX SMOKE VENTILATION SYSTEM**
 100m (SK06 size) 1140x1180 Centre pivot roof window - Finish TBC Window to be provided as a complete package including centre pivot roof window, flashing, control unit, pre-filled window motor, smoke sensor & break glass.

Refer to the separate schedule of samples and materials - locations as noted on this drawing.



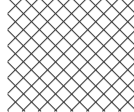
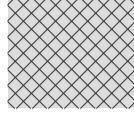
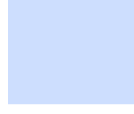

1 1-100 - Zone2 - Roof Level (02) Copy 2
 1:50



bam
 COAL DROPS YARD
 Roof Plan 1 to 50 - WCD Zone
 02 sheet 2 of 2
 CONSTRUCTION
 1:50 @ AD
 08/14/16
 4380
 54
 KXC-M1-001-BD4389-A-27-102105 002

NO	DATE	DESCRIPTION	BY	CHECKED
001	2016/08/16	ISSUED FOR PERMIT
002	2016/08/16	ISSUED FOR PERMIT

Roof Type Area Legend

-  **STANDING SEAM** - Total notional area of cheeks (WCD-494sqm + ECD-566sqm)= 1060sqm
-  **ALUCOBOND RAINSCREEN PANELS**- Total notional area of cheeks (WCD+ECD)= 863sqm
-  **ACCESS WALKWAY** - Area: Refer to drawing 27-522
-  **WALK ON GUTTER** - Area: (WCD+ECD)= 76sqm
-  **WALK-ON ROOFLIGHTS** - Area: Refer to drawing 27-522
- C** **CURVED EDGE ROOFLIGHTS**
-  **CURVED ALUMINIUM FLASHING**

DO NOT SCALE FROM THIS DRAWING.
 ALL DIMENSIONS TO BE CHECKED ON SITE.
 FOR REFERENCED VIEWS REFER TO SERIES OF DRAWINGS KXC-M2-001-A-(27)

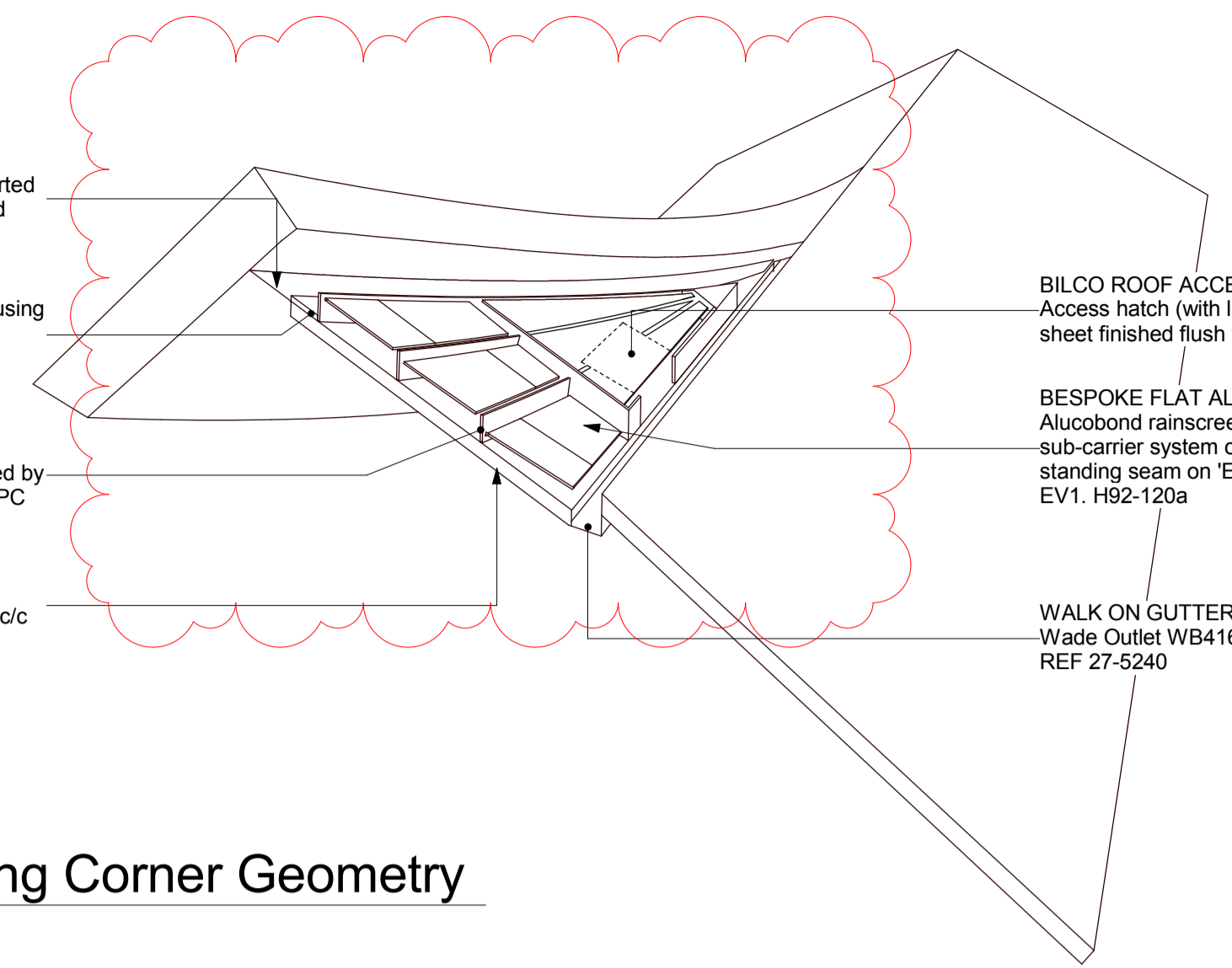
NOTE:
 DIMENSIONS GIVEN ON THIS DRAWING ARE INDICATIVE AND PROVIDED IN ORDER TO GIVE A NOTIONAL SIZE FOR THE PANELS

ROOFLIGHT
 TN66 Raised walk on double glazed rooflight supported on 4 sides with mullion cover cap to F&R details and glazing specification.

WALKWAY
 Latchways Walksafe plank system clamped to roof using standard non-penetrative seam clamps at varied heights. Grated planks to provide enhanced slip resistance.

PPC 4mm CURVED ALUMINIUM RAINSCREEN FLASHING
 Flashing to be a constant height of 500mm supported by posts at 434 centres clamped to standing seams. PPC Aluminium finished with standard RAL colour. Z11

STANDING SEAM
 400mm wide profiled sheets on 60mm flat structural deck spanning between primary steel placed @ 3m c/c to structural engineers layout. H31

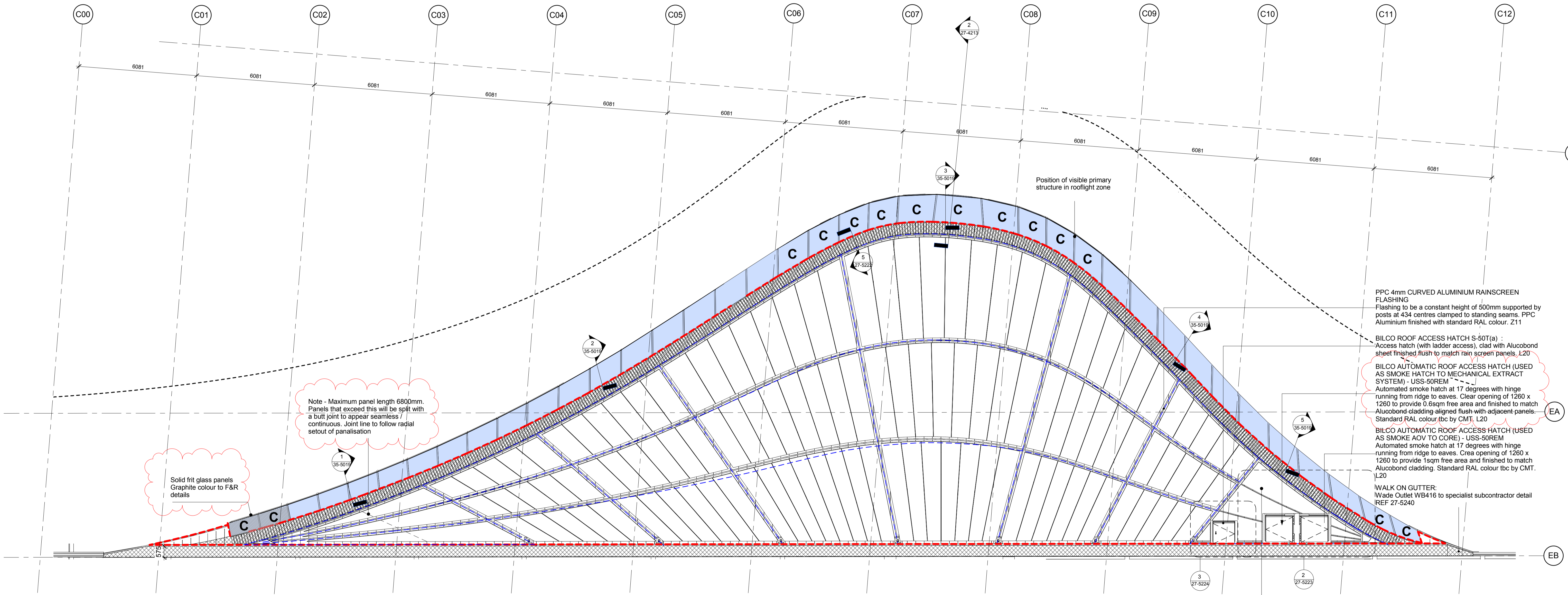


BILCO ROOF ACCESS HATCH S-50T(a) : Access hatch (with ladder access), clad with Alucobond sheet finished flush to match rain screen panels. L20

BESPOKE FLAT ALUCOBOND PANELS : Alucobond rainscreen folded tray panels on standard sub-carrier system of varying heights fixed back to standing seam on 'E' clips - Finish: Anodized Look C0 / EV1. H92-120a

WALK ON GUTTER: Wade Outlet WB416 to specialist subcontractor detail REF 27-5240

2 Rainscreen Cladding Corner Geometry 1:15



PPC 4mm CURVED ALUMINIUM RAINSCREEN FLASHING
 Flashing to be a constant height of 500mm supported by posts at 434 centres clamped to standing seams. PPC Aluminium finished with standard RAL colour. Z11

BILCO ROOF ACCESS HATCH S-50T(a) : Access hatch (with ladder access), clad with Alucobond sheet finished flush to match rain screen panels. L20

BILCO AUTOMATIC ROOF ACCESS HATCH (USED AS SMOKE HATCH TO MECHANICAL EXTRACT SYSTEM) - USS-50REM
 Automated smoke hatch at 17 degrees with hinge running from ridge to eaves. Clear opening of 1260 x 1260 to provide 0.6sqm free area and finished to match Alucobond cladding aligned flush with adjacent panels. Standard RAL colour tbc by CMT. L20

BILCO AUTOMATIC ROOF ACCESS HATCH (USED AS SMOKE ADV TO CORE) - USS-50REM
 Automated smoke hatch at 17 degrees with hinge running from ridge to eaves. Clear opening of 1260 x 1260 to provide 1sqm free area and finished to match Alucobond cladding. Standard RAL colour tbc by CMT. L20

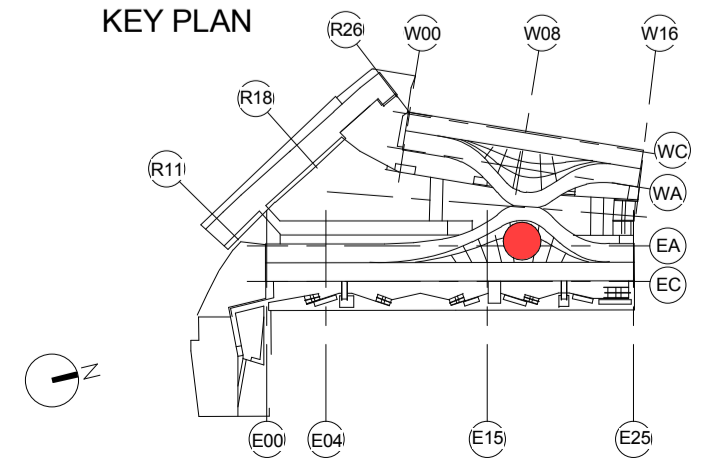
WALK ON GUTTER: Wade Outlet WB416 to specialist subcontractor detail REF 27-5240

Solid frit glass panels
 Graphite colour to F&R details

Note - Maximum panel length 6800mm. Panels that exceed this will be split with a butt joint to appear seamless / continuous. Joint line to follow radial setout of panalisation

Note - Maximum panel length 6800mm. Panels that exceed this will be split with a butt joint to appear seamless/continuous

KEY PLAN



no	by	chkd	date	description
07	JN	MWB	28/11/16	Notes updated.
06	JN	MWB	12/08/16	Notes updated. Solid frit glass identified
05	DCW	MWB	14/01/16	General updates for CP
04	JN	MWB	22/12/15	Structural bracing removed from rooflight void. Curved edge glass indicated
03	JN	MWB	03/12/15	Notes updated
02	JN	MWB	30/11/15	Glazing division aligned with primary structure. Extent of visible structure in rooflight void added. Standing seam outline updated
01	JN	MWB	14/10/15	Updated to reflect revised geometry and extents



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 www.bam.co.uk

project **COAL DROPS YARD**

title **M2 Cheek Setout Plan**

purpose of issue **CONSTRUCTION**

scale **As indicated @ A1** draw **BAM D** BAM job no. **4389** dig. status **S4**

date **05/06/15** checked **MB** rev **007**

site **01727 894200** identification project **KXC-M2-001-BD4389-A-27-4222** Role **CS/SFB** Content **rev**

dsg / doc ref **KXC-M2-001-BD4389-A-27-4222** rev **007**

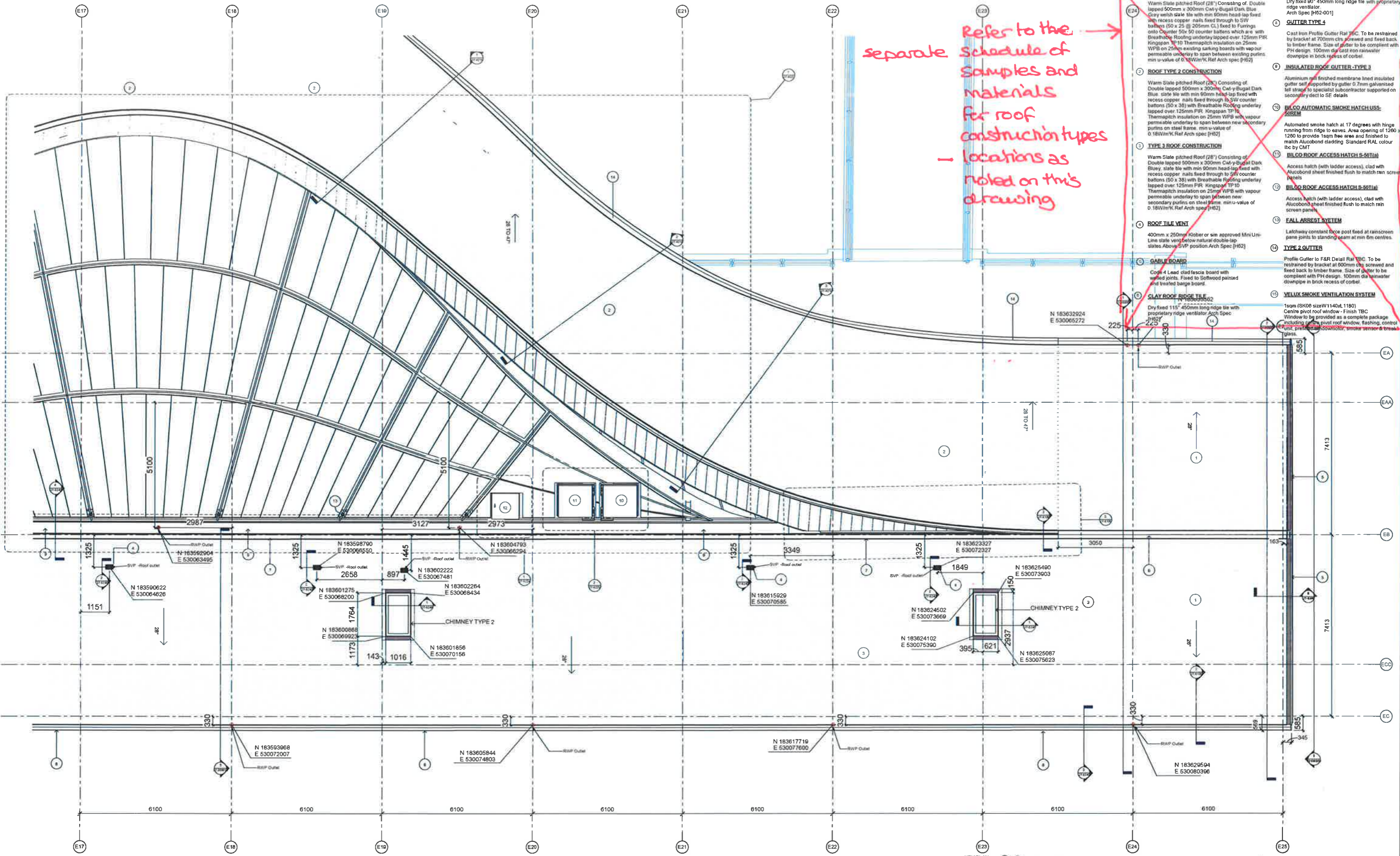
CONTINUATION M2-ZONE 02 -DWG 27-102102

NO MET SCALE FROM THIS DRAWING
ALL DIMENSIONS TO BE CHECKED ON SITE
ISSUED BY ARCHITECT/ENGINEER/PLANNER
DATE: 08/13/16
PROJECT: COAL DROPS YARD

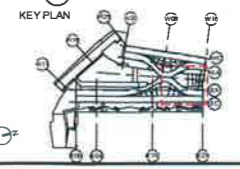
Roof Legend

- 1 ROOF TYPE 1 CONSTRUCTION
Warm Slate pitched Roof (28°) Consisting of: Double lapped 500mm x 300mm Cw-y-Bugdal Dark Blue Grey Welsh slate tile with min 50mm head lap fixed with recess copper nails fixed through to SW battens (50 x 25 @ 205mm CL) fixed to Furrings with Double 50x50 counter battens which are fixed with Breathable Roofing underlay lapped over 125mm FRR Kingspan TP10 Thermatch insulation on 25mm WFB with vapour permeable underlay to span between existing purlins. min u-value of 0.18W/m²K Ref Arch spec [H02]
- 2 ROOF TYPE 2 CONSTRUCTION
Warm Slate pitched Roof (28°) Consisting of: Double lapped 500mm x 300mm Cw-y-Bugdal Dark Blue slate tile with min 50mm head lap fixed with recess copper nails fixed through to SW counter battens (50 x 38) with Breathable Roofing underlay lapped over 125mm FRR Kingspan TP10 Thermatch insulation on 25mm WFB with vapour permeable underlay to span between new secondary purlins on steel frame. min u-value of 0.18W/m²K Ref Arch spec [H02]
- 3 TYPE 3 ROOF CONSTRUCTION
Warm Slate pitched Roof (28°) Consisting of: Double lapped 500mm x 300mm Cw-y-Bugdal Dark Blue slate tile with min 50mm head lap fixed with recess copper nails fixed through to SW counter battens (50 x 38) with Breathable Roofing underlay lapped over 125mm FRR Kingspan TP10 Thermatch insulation on 25mm WFB with vapour permeable underlay to span between new secondary purlins on steel frame. min u-value of 0.18W/m²K Ref Arch spec [H02]
- 4 ROOF TILE VENT
400mm x 250mm Hobber or sim approved Mini Uni-Line slate vent below natural double lap slates Above SVP position Arch Spec [H02]
- 5 GABLE BOARD
Cope 4 Lead clad fascia board with welded joints. Fixed to Softwood painted and treated barge board.
- 6 CLAY ROOF RIDGE TILE
Dry fixed 115 x 450mm long ridge tile with proprietary ridge ventilator Arch Spec [H02]
- 7 ROOF MONO RIDGE TILE
Dry fixed 90 x 450mm long ridge tile with proprietary ridge ventilator Arch Spec [H02-G01]
- 8 GUTTER TYPE 4
Cast Iron Profile Gutter Ral 70C. To be restrained by bracket at 700mm c/c, screwed and fixed back to timber frame. Size of gutter to be compliant with PH design. 100mm dia cast iron rainwater downpipe in brick recess of corbel.
- 9 INSULATED ROOF GUTTER -TYPE 3
Aluminium non finished membrane lined insulated gutter self supported by gutter 0.7mm galvanised self straps to specialist subcontractor supported on secondary steel to SE details
- 10 BILCO AUTOMATIC SMOKE HATCH USS-300EM
Automated smoke hatch at 17 degrees with hinge running from ridge to eaves. Area opening of 1200 x 1200 to provide 15m free area and finished to match Alucobond cladding Standard RAL colour lbc by CMT
- 11 BILCO ROOF ACCESS HATCH S-507(a)
Access hatch (with ladder access), clad with Alucobond sheet finished flush to match rain screen panels
- 12 BILCO ROOF ACCESS HATCH S-507(a)
Access hatch (with ladder access), clad with Alucobond sheet finished flush to match rain screen panels
- 13 FALL ARREST SYSTEM
Lathway constant force post fixed at rainscreen panel joints to standing seam at min 6m centres.
- 14 TYPE 2 GUTTER
Profile Gutter to FAR Detail Ral 70C. To be restrained by bracket at 600mm c/c, screwed and fixed back to timber frame. Size of gutter to be compliant with PH design. 100mm dia rainwater downpipe in brick recess of corbel.
- 15 VELUX SMOKE VENTILATION SYSTEM
Team (SK08 size W1140xL1180) Centre pivot roof window - Finish TBC Window to be provided as a complete package including pivot roof window, flashing, control panel, remote control, smoke sensor & break glass.

Refer to the separate Schedule of Samples and materials for roof construction types - locations as noted on this drawing



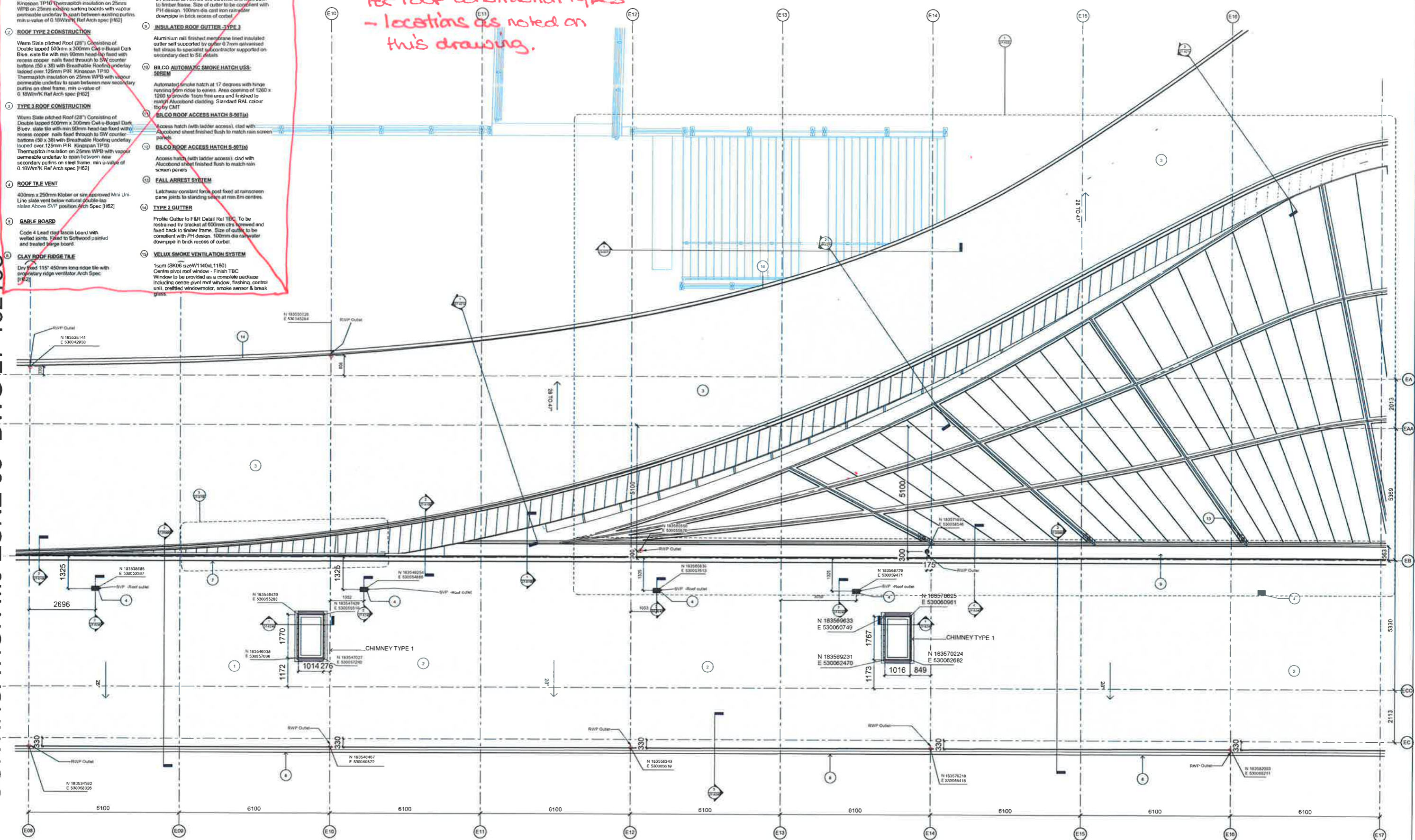
1 1-50 - M2- Zone 01 - Roof Level (01)
1:50



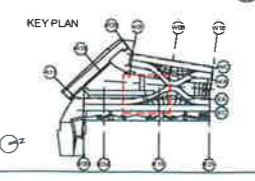
Refer to the separate schedule of samples and materials for roof construction types - locations as noted on this drawing.

- Roof legend
- 1 **ROOF TYPE 1 CONSTRUCTION**
 Warm Slate pitched Roof (28°) Consisting of Double lapped 500mm x 300mm Clay-Biscuit Dark Blue Grey slate tile with min 90mm head-lap fixed with recess copper nails fixed through to SW battens 100 x 25 @ 200mm CLJ fixed to Furins onto Curbel 50 @ 60 counter battens which are with Breathable Roofing underlay lapped over 125mm PIR Kingspan TP10 Thermapitch insulation on 25mm WPB with vapour permeable underlay to span between existing purlins min u-value of 0.18W/mK Ref Arch spec [H62]
 - 2 **ROOF TYPE 2 CONSTRUCTION**
 Warm Slate pitched Roof (28°) Consisting of Double lapped 500mm x 300mm Clay-Biscuit Dark Blue slate tile with min 90mm head-lap fixed with recess copper nails fixed through to SW counter battens 100 x 38 with Breathable Roofing underlay lapped over 125mm PIR Kingspan TP10 Thermapitch insulation on 25mm WPB with vapour permeable underlay to span between new secondary purlins on steel frame min u-value of 0.18W/mK Ref Arch spec [H62]
 - 3 **TYPE 3 ROOF CONSTRUCTION**
 Warm Slate pitched Roof (28°) Consisting of Double lapped 500mm x 300mm Clay-Biscuit Dark Blue slate tile with min 90mm head-lap fixed with recess copper nails fixed through to SW counter battens 100 x 38 with Breathable Roofing underlay lapped over 125mm PIR Kingspan TP10 Thermapitch insulation on 25mm WPB with vapour permeable underlay to span between new secondary purlins on steel frame min u-value of 0.18W/mK Ref Arch spec [H62]
 - 4 **ROOF TILE VENT**
 400mm x 250mm Klobber or sim approved Mini Uni-Line slate vent below natural double-lap slates Above SVP position Arch Spec [H62]
 - 5 **GABLE BOARD**
 Code 4 Lead clad fascia board with welded joints. Faced to Softwood painted and treated large board.
 - 6 **CLAY ROOF RIDGE TILE**
 Dry fixed 115° 450mm long ridge tile with proprietary ridge ventilator Arch Spec [H62]
 - 7 **ROOF MONO RIDGE TILE**
 Dry fixed 90° 450mm long ridge tile with proprietary ridge ventilator Arch Spec [H62-001]
 - 8 **GUTTER TYPE 4**
 Cast Iron Profile Gutter Rail TBC. To be restrained by bracket at 700mm cts screwed and fixed back to timber frame. Size of gutter to be compliant with PH design. 100mm dia cast iron rainwater downpipe in brick recess of curb.
 - 9 **INSULATED ROOF GUTTER TYPE 3**
 Aluminium mill finished membrane lined insulated gutter self supported by gutter 0.7mm galvanneal fell slates to specialist subcontractor supported on secondary duct to SE details.
 - 10 **BILCO AUTOMATIC SMOKE HATCH USS-500EM**
 Automated smoke hatch at 17 degrees with hinge running from ridge to eaves. Area opening of 1200 x 1200 to provide 1 year free area and finished to match Alucobond cladding. Standard RAL colour to be by CM1.
 - 11 **BILCO ROOF ACCESS HATCH S-507(A)**
 Access hatch (with ladder access), clad with Alucobond sheet finished flush to match rain screen panels.
 - 12 **BILCO ROOF ACCESS HATCH S-507(B)**
 Access hatch (with ladder access), clad with Alucobond sheet finished flush to match rain screen panels.
 - 13 **FALL ARREST SYSTEM**
 Latchway constant force post fixed at rainscreen pane joints to standing seam at min 8m centres.
 - 14 **TYPE 2 GUTTER**
 Profile Gutter to F&R Detail Ref TBC. To be restrained by bracket at 600mm cts screwed and fixed back to timber frame. Size of gutter to be compliant with PH design. 100mm dia rainwater downpipe in brick recess of curb.
 - 15 **VELUX SMOKE VENTILATION SYSTEM**
 Isom (SK06 size W1 140xL1180) Centre pivot roof window - Finish TBC Window to be provided as a complete package including centre pivot roof window, finishing control unit, pre-fitted window motor, smoke sensor & break glass.

CONTINUATION M0-ZONE 03 - DWG 27-102103



1-50 - M2 - Zone 02 - Roof Level (02)
 1:50



ARGENT

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COAL DROPS YARD

Roof Plan 1 TO 50-ECD Zone 02 Sheet 2 of 3

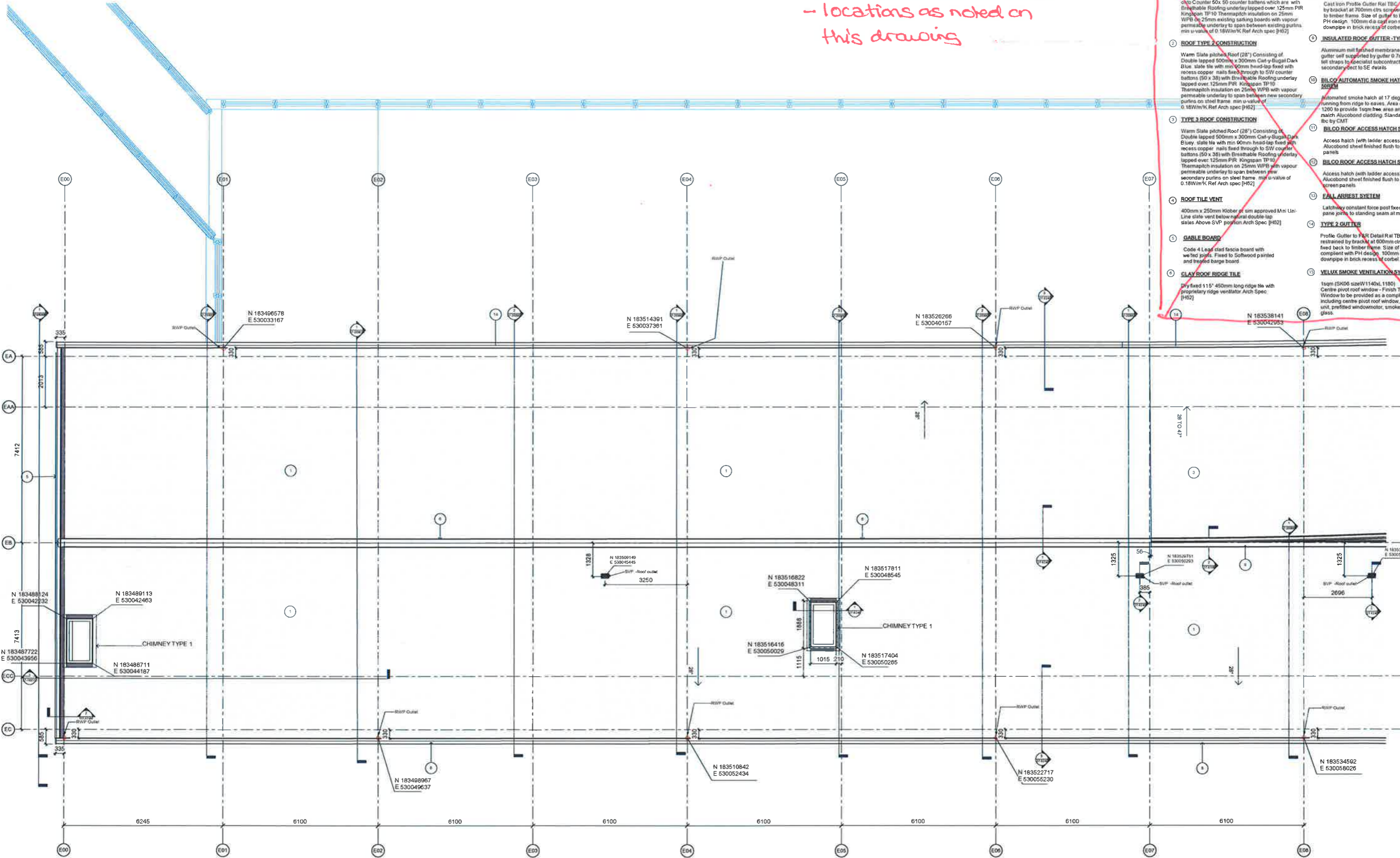
CONSTRUCTION

Scale: 1:50 @ A0
 Date: 06/13/16
 DWG No: 4389
 S4

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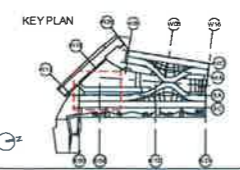
Refer to the separate schedule of samples and materials - locations as noted on this drawing

- Roof legend
- 1 **ROOF TYPE 1 CONSTRUCTION**
 Warm Slate pitched Roof (28°) Consisting of Double lapped 500mm x 300mm CW-y-Bugall Dark Blue Grey Welsh slate tile with min 90mm head-lap fixed with recess copper nails fixed through to SW counter battens (50 x 25 @ 205mm CL) fixed to Furrings onto Counter 50x50 counter battens which are with Breathable Roofing underlapped over 125mm PIR Kingspan TP10 Thermagloch insulation on 25mm WPB on 25mm existing sarking boards with vapour permeable underlay to span between existing purlins min u-value of 0.18W/m²K Ref Arch spec [H62]
 - 2 **ROOF TYPE 2 CONSTRUCTION**
 Warm Slate pitched Roof (28°) Consisting of Double lapped 500mm x 300mm CW-y-Bugall Dark Blue slate tile with min 90mm head-lap fixed with recess copper nails fixed through to SW counter battens (50 x 35) with Breathable Roofing underlapped over 125mm PIR Kingspan TP10 Thermagloch insulation on 25mm WPB with vapour permeable underlay to span between new secondary purlins on steel frame min u-value of 0.18W/m²K Ref Arch spec [H62]
 - 3 **TYPE 3 ROOF CONSTRUCTION**
 Warm Slate pitched Roof (28°) Consisting of Double lapped 500mm x 300mm CW-y-Bugall Dark Blue slate tile with min 90mm head-lap fixed with recess copper nails fixed through to SW counter battens (50 x 35) with Breathable Roofing underlapped over 125mm PIR Kingspan TP10 Thermagloch insulation on 25mm WPB with vapour permeable underlay to span between new secondary purlins on steel frame min u-value of 0.18W/m²K Ref Arch spec [H62]
 - 4 **ROOF TILE VENT**
 400mm x 250mm Klobber of sim approved Mini Uni-Line slate vent below natural double-lap slates Above SVP position Arch Spec [H62]
 - 5 **GABLE BOARD**
 Code 4 Lead clad fascia board with weath profile. Fixed to Softwood painted and treated barge board
 - 6 **CLAY ROOF RIDGE TILE**
 Dry fixed 115' 450mm long ridge tile with proprietary ridge ventilator Arch Spec [H62]
 - 7 **ROOF MONO RIDGE TILE**
 Dry fixed 60' 450mm long ridge tile with proprietary ridge ventilator Arch Spec [H62-001]
 - 8 **GUTTER TYPE 4**
 Cast Iron Profile Gutter Rail TBC. To be restrained by bracket at 700mm ctrs screwed and fixed back to timber frame. Size of gutter to be compliant with PH design. 100mm dia cast iron rainwater downpipe in brick recess of corbel.
 - 9 **INSULATED ROOF GUTTER TYPE 3**
 Aluminium mill finished membrane lined insulated gutter self supplied by gutter 0.7mm galvanneal self straps to specialist subcontractor supported on secondary deck to SE details
 - 10 **BILCO AUTOMATIC SMOKE HATCHLUSS-507M**
 Automated smoke hatch at 17 degrees with hinge running from ridge to eaves. Area opening of 1200 x 1200 to provide 1sqm free area and finished to match Alucobond cladding. Standard RAL colour by CMT
 - 11 **BILCO ROOF ACCESS HATCH S-507M**
 Access hatch (with ladder access), clad with Alucobond steel finished flush to match rain screen panels
 - 12 **BILCO ROOF ACCESS HATCH S-507M**
 Access hatch (with ladder access), clad with Alucobond steel finished flush to match rain screen panels
 - 13 **FALL ARREST SYSTEM**
 Latch on constant force post fixed at rainwater pane joints to standing seam at min 6m centres
 - 14 **TYPE 2 GUTTER**
 Profile Gutter to P/R Detail R at TBC. To be restrained by bracket at 600mm ctrs screwed and fixed back to timber frame. Size of gutter to be compliant with PH design. 100mm dia rainwater downpipe in brick recess of corbel.
 - 15 **VELUX SMOKE VENTILATION SYSTEM**
 1sqm (5000 size W1140xL1180) Centre pivot roof window - Finish TBC. Window to be provided as a complete package including centre pivot roof window, fastening, control unit, pre-fitted window motor, smoke sensor & break glass.



1 1-50 - M2-Zone 03- Roof Level
 1 : 50

001	VP	DAVE	18/01/18	Updated to suit comments dated 25/01/18
002	BDW	MARIE	17/06/18	Construction Issue



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COAL DROPS YARD

Roof Plan 1 TO 50-ECD Zone
 03 Sheet 3 of 3

Scale: 1:50 @ A3
 Date: 06/13/18
 Author: MVB
 Project: 4390
 Drawing No: S4
 KXC-M2-001-BD4380-A-27-102103 002

CONTINUATION M0-ZONE 01 -DWG 27-102102