

**From:** [Ross, Stuart](#)  
**To:** [Bradford, Julie](#)  
**Subject:** FW: CAR BL10961B/0195601  
**Date:** 17 December 2013 09:49:48  
**Attachments:** [Iodine results.pdf](#)  
[MBM halides.PDF](#)  
[Raw meal, PFA & Sand XRF.pdf](#)  
[CASTLE CEMENT WALKWAY.PDF.zip](#)

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For public register

Cheers

Stu

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**From:** Quick, David J (Padeswood) GBR [mailto:david.quick@hanson.biz]  
**Sent:** 13 December 2013 12:47  
**To:** Ross, Stuart  
**Cc:** Young, Gary (Clitheroe) GBR; Cowell, Paul (Clitheroe) GBR; Smith, Victoria (Padeswood) GBR  
**Subject:** CAR BL10961B/0195601

Stuart,

With reference to your recent CAR please see below.

**Plume colouration**

Results from additional fuels and raw materials testing attached.

**Noise mitigation**

Please find design drawings for the steelwork attached. This work will be completed by 31/1/14

**Revised Jetting Procedure**

You have requested this by 18/12/13. We have had our first working group meeting to review this procedure and a number of safety points were raised that require clarification. As communicated previously, jetting work can be particularly hazardous. Part of the review process will necessarily involve the third party contractor who carries out the majority of the jetting work for us. It is unlikely that we will be able to meet with the contractor and finalise this procedure prior to Christmas. Given that we are on shutdown during January would you please extend the target date for this until 31/1/14?

**Notifications**

Victoria Smith will forward you both of the part B notifications you have requested today.

If you have any other queries please do not hesitate to contact me

Regards

David Quick  
Operations Manager  
Hanson Cement  
Padeswood Works  
+44 (0)7713685727

	INITIALS	DATE
OK FOR PUBLIC REGISTER	DL	20/12/13
COPIED TO PUBLIC REGISTER	JB	EDM

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## Analytical Report

Hanson Cement  
Padeswood Works  
Chester Road  
Padeswood, Mold  
Flintshire, CH7 4HB

Report No: 13-34539/1  
Date Received: 18/11/2013  
Date Tested: 20/11/2013 to 21/11/2013  
Date Issued: 27/11/2013  
Page: 1 of 1  
By email

For the attention of: Christopher Jones

2 solid samples received from Hanson Cement (O/N: 46970414) in plastic bags were analysed as shown below. Analytical methods employed are available on request. Results are reported on an as received basis unless otherwise specified.

Laboratory reference	Client reference	Other reference	Iodine mg/kg 7553-56-2	chlorine (total) mg/kg 7782-50-5
236148	MBM 29/10/13	n/a	< 50.0	< 10.00
236149	MBM August ETS	n/a	< 50.0	< 10.00

### Comments:

It was necessary to dilute samples (1:10) prior to analysis due to interference from the true colour of the extract. The reporting limit for chlorine has been raised accordingly.

**Marco Lattughi**  
Senior Operations Manager



# INORGANIC ANALYSIS REPORT



0013

Hanson Cement  
Padeswood Works  
Padeswood  
Mold  
Flintshire  
CH7 4HB

**ceram**

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fax: +44 (0)1782 412331

email: enquiries@ceram.com

web: www.ceram.com

FAO: Chris Jones

Report of Tests on: Raw Meal

Your Reference: 23/10/13

Ceram Reference: (135849)-24703

Date Reported: 20-Nov-2013

Order Number: 46970416

Date Logged: 13-Nov-2013

Date(s) of Test(s): 19-Nov-2013 to 20-Nov-2013

## XRF Analysis

Methods C201 based on BSEN ISO 12677:2011

Result(s)		Units	
Sample Basis			Dried 110 deg C
Silicon Dioxide	SiO <sub>2</sub>	%	14.63
Titanium Dioxide	TiO <sub>2</sub>	%	0.16
Aluminium Oxide	Al <sub>2</sub> O <sub>3</sub>	%	3.77
Iron (III) Oxide	Fe <sub>2</sub> O <sub>3</sub>	%	1.36
Calcium Oxide	CaO	%	42.24
Magnesium Oxide	MgO	%	0.73
Potassium Oxide	K <sub>2</sub> O	%	0.47
Sodium Oxide	Na <sub>2</sub> O	%	0.17
Phosphorus Pentoxide	P <sub>2</sub> O <sub>5</sub>	%	0.08
Chromium (III) Oxide	Cr <sub>2</sub> O <sub>3</sub>	%	<0.01
Manganese (II,III) Oxide	Mn <sub>3</sub> O <sub>4</sub>	%	0.03
Zirconium Oxide	ZrO <sub>2</sub>	%	<0.02
Hafnium (IV) Oxide	HfO <sub>2</sub>	%	<0.01
Lead Oxide	PbO	%	<0.02
Zinc Oxide	ZnO	%	0.01
Barium Oxide	BaO	%	0.04
Strontium (II) Oxide	SrO	%	0.05
Tin (IV) Oxide	SnO <sub>2</sub>	%	<0.01
Copper Oxide	CuO	%	<0.01
Loss on Ignition		%	35.74
Loss on Ignition Temperature		°C	1025
Total		%	99.48
Sulphur Trioxide	SO <sub>3</sub>	%	0.35
UKAS Accredited			Yes

The sulphur trioxide may not be a total sulphur figure but is the sulphur remaining after LOI and fusion. Results are quoted to 2 decimal places but are accurate to 3 significant figures or the number of figures given, whichever is the lesser.

Opinions and interpretations expressed herein are outside the scope of UKAS Accreditation.

End of Test Report

Mrs Sharon Mansfield  
Author

# INORGANIC ANALYSIS REPORT



0013

**Hanson Cement**  
Padeswood Works  
Padeswood  
Mold  
Flintshire  
CH7 4HB

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email: enquiries@ceram.com

web: www.ceram.com

FAO: Chris Jones

Report of Tests on: PFA

Your Reference: 23/10/13

Ceram Reference: (135849)-24705

Date Reported: 20-Nov-2013

Order Number: 46970416

Date Logged: 13-Nov-2013

Date(s) of Test(s): 19-Nov-2013 to 20-Nov-2013

## XRF Analysis

Methods C201 based on BSEN ISO 12677:2011

Result(s)		Units	
Sample Basis			Dried 110 deg C
Silicon Dioxide	SiO <sub>2</sub>	%	52.18
Titanium Dioxide	TiO <sub>2</sub>	%	0.80
Aluminium Oxide	Al <sub>2</sub> O <sub>3</sub>	%	19.63
Iron (III) Oxide	Fe <sub>2</sub> O <sub>3</sub>	%	6.20
Calcium Oxide	CaO	%	3.71
Magnesium Oxide	MgO	%	1.61
Potassium Oxide	K <sub>2</sub> O	%	1.86
Sodium Oxide	Na <sub>2</sub> O	%	1.06
Phosphorus Pentoxide	P <sub>2</sub> O <sub>5</sub>	%	0.48
Chromium (III) Oxide	Cr <sub>2</sub> O <sub>3</sub>	%	0.01
Manganese (II,III) Oxide	Mn <sub>3</sub> O <sub>4</sub>	%	0.05
Zirconium Oxide	ZrO <sub>2</sub>	%	0.04
Hafnium (IV) Oxide	HfO <sub>2</sub>	%	<0.01
Lead Oxide	PbO	%	<0.02
Zinc Oxide	ZnO	%	0.03
Barium Oxide	BaO	%	0.21
Strontium (II) Oxide	SrO	%	0.14
Tin (IV) Oxide	SnO <sub>2</sub>	%	<0.01
Copper Oxide	CuO	%	0.01
Loss on Ignition		%	11.77
Loss on Ignition Temperature		°C	1025
Total		%	99.79
Sulphur Trioxide	SO <sub>3</sub>	%	0.10
UKAS Accredited			Yes

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**End of Test Report**

Mrs Sharon Mansfield  
Author

# INORGANIC ANALYSIS REPORT



0013

**Hanson Cement**  
**Padeswood Works**  
**Padeswood**  
**Mold**  
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fax: +44 (0)1782 412331

email: enquiries@ceram.com

web: www.ceram.com

FAO: Chris Jones

Report of Tests on: Sand

Your Reference: 23/10/13

Ceram Reference: (135849)-24707

Date Reported: 20-Nov-2013

Order Number: 46970416

Date Logged: 13-Nov-2013

Date(s) of Test(s): 19-Nov-2013 to 20-Nov-2013

## XRF Analysis

Methods C201 based on BSEN ISO 12677:2011

Result(s)		Units	
Sample Basis			Dried 110 deg C
Silicon Dioxide	SiO <sub>2</sub>	%	84.04
Titanium Dioxide	TiO <sub>2</sub>	%	0.23
Aluminium Oxide	Al <sub>2</sub> O <sub>3</sub>	%	4.50
Iron (III) Oxide	Fe <sub>2</sub> O <sub>3</sub>	%	2.50
Calcium Oxide	CaO	%	2.10
Magnesium Oxide	MgO	%	0.65
Potassium Oxide	K <sub>2</sub> O	%	1.23
Sodium Oxide	Na <sub>2</sub> O	%	0.39
Phosphorus Pentoxide	P <sub>2</sub> O <sub>5</sub>	%	0.06
Chromium (III) Oxide	Cr <sub>2</sub> O <sub>3</sub>	%	<0.01
Manganese (II,III) Oxide	Mn <sub>2</sub> O <sub>4</sub>	%	0.05
Zirconium Oxide	ZrO <sub>2</sub>	%	0.02
Hafnium (IV) Oxide	HfO <sub>2</sub>	%	<0.01
Lead Oxide	PbO	%	<0.02
Zinc Oxide	ZnO	%	<0.01
Barium Oxide	BaO	%	0.03
Strontium (II) Oxide	SrO	%	<0.01
Tin (IV) Oxide	SnO <sub>2</sub>	%	<0.01
Copper Oxide	CuO	%	<0.01
Loss on Ignition		%	3.62
Loss on Ignition Temperature		°C	1025
Total		%	99.42
Sulphur Trioxide	SO <sub>3</sub>	%	<0.05
UKAS Accredited			Yes

The sulphur trioxide may not be a total sulphur figure but is the sulphur remaining after LOI and fusion. Results are quoted to 2 decimal places but are accurate to 3 significant figures or the number of figures given, whichever is the lesser.

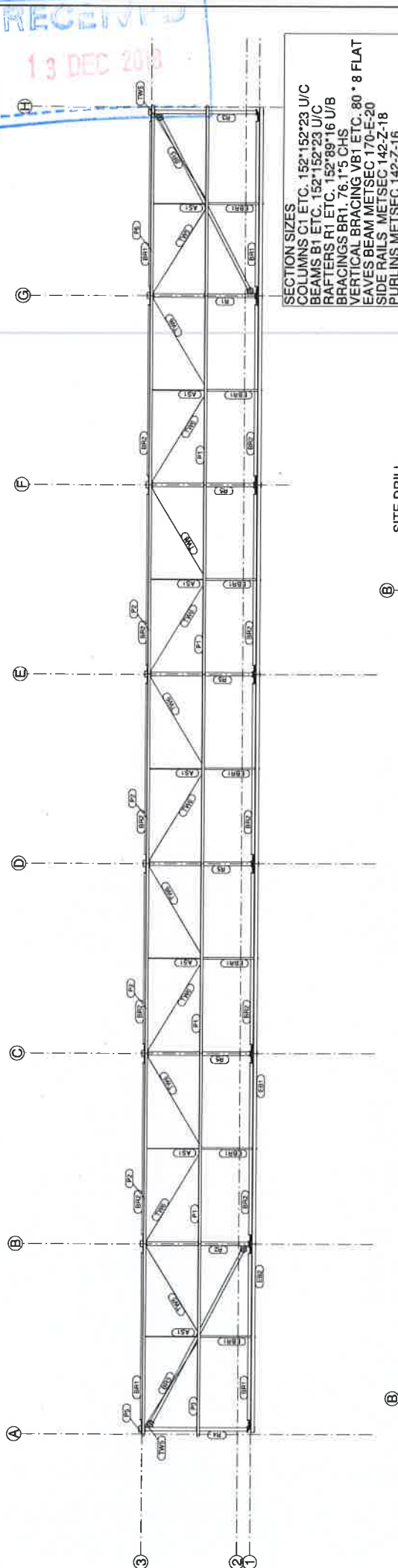
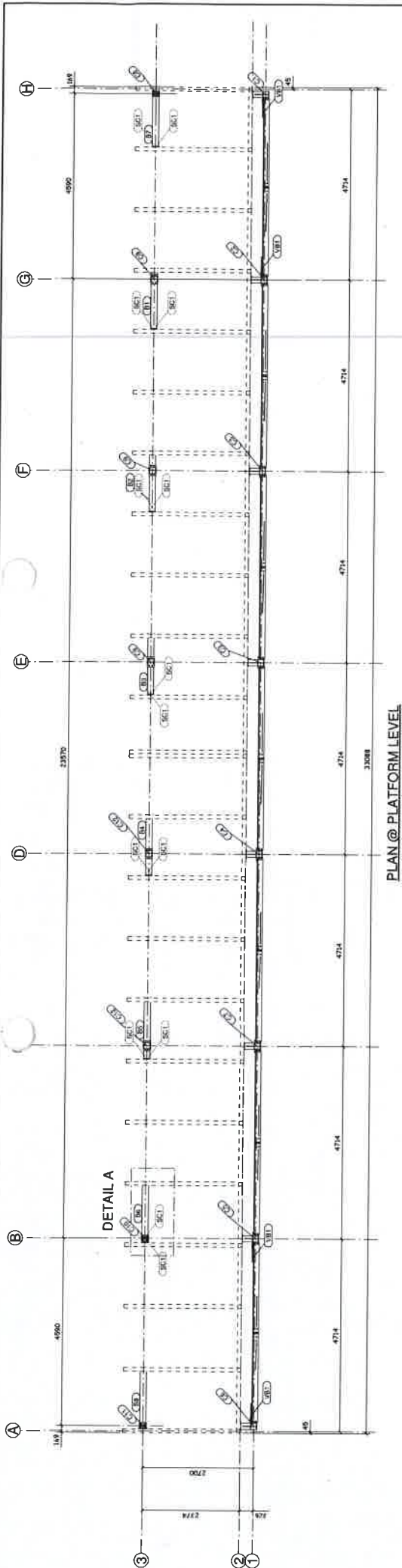
Opinions and interpretations expressed herein are outside the scope of UKAS Accreditation.

**End of Test Report**

Mrs Sharon Mansfield  
Author







SITE DRILL  
4 NO.22 DIA.  
HOLES AS SHOWN  
TO SUIT COLUMN LOCATION

**PLAN @ ROOF LEVEL**

**SITE DRILL  
4 NO. 18 DIA.  
HOLES AS SHOWN**

SITE DRILL  
4 NO. 18 DIA.  
HOLES AS SHOWN

A - A

### DETAIL A

13 DEC 2013

DRAWING TITLE	PLAN VIEWS		
CONTRACT	CASLE CEMENT WALKWAY		
MODELLER BY	E.F.F.	ISSUE DATE	
CONTRACT NO.	3647	SCALE	1:16 1:50
DRAWING NO.	G. 111	REVISION No.	

**Kendley Ltd.**  
**ARCHITECTS**  
 100, Darnley Road,  
 York, YO1 1AA  
 Tel: 01904 275000  
 Telex: 817 545 427 KALZ  
 Fax: 01904 275000  
 Email: [info@kendley.co.uk](mailto:info@kendley.co.uk)  
 Website: [www.kendley.co.uk](http://www.kendley.co.uk)

**Revision History**

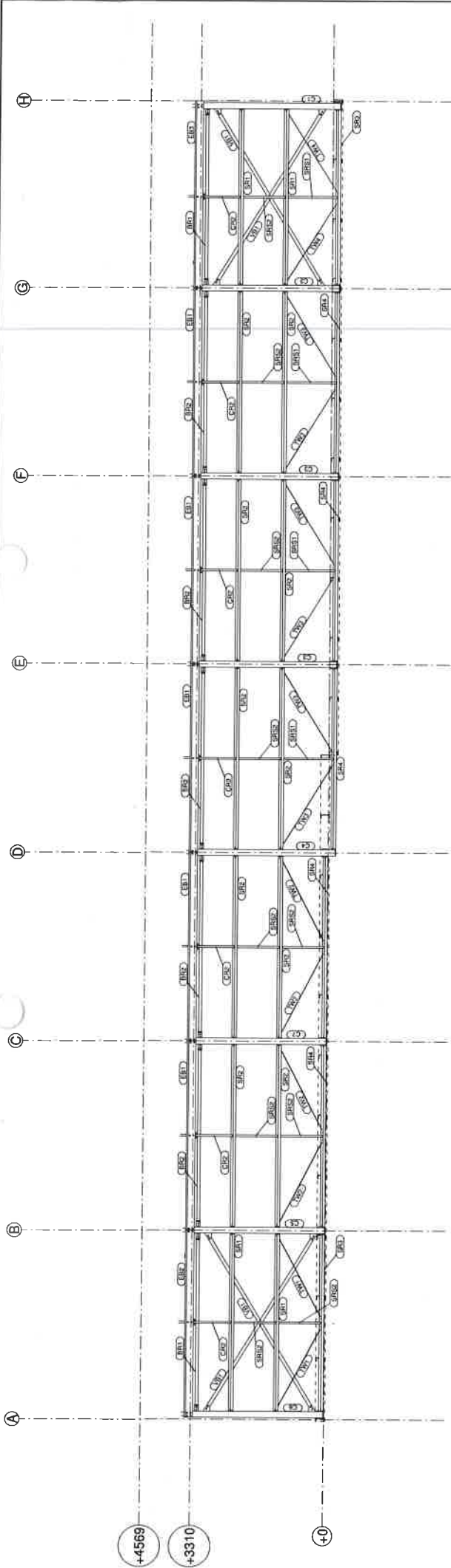
Rev	Description	Date
1	Issue for tender	10/01/2011

**Client:** Mr & Mrs J. Smith  
**Address:** 123 Main Street, London, W1A 1AA  
**Phone:** 020 1234 5678  
**Email:** [john.smith@example.com](mailto:john.smith@example.com)

**Project Name:** New Garden Pathway  
**Location:** Back Garden, 123 Main Street, London, W1A 1AA  
**Start Date:** 15/01/2011  
**Completion Date:** 30/03/2011

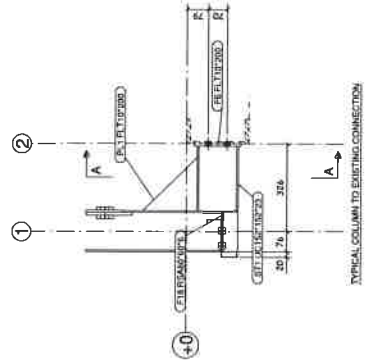


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13 DEC 2013

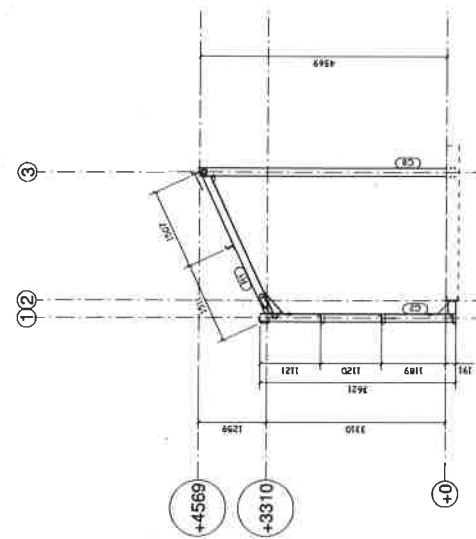
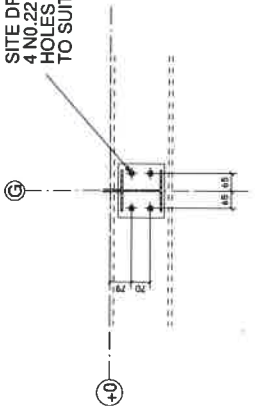


Grid 1

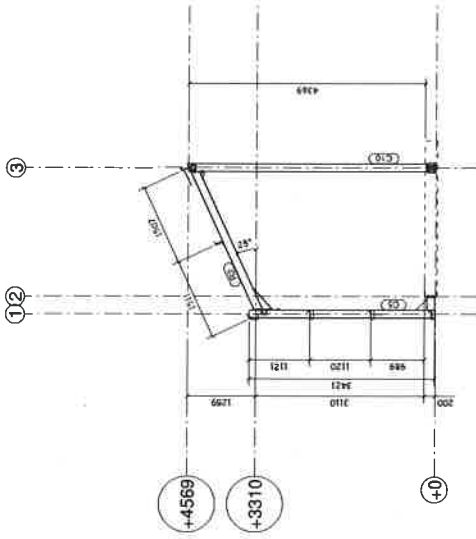
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COLUMNS C1 ETC. 152\*152\*23 U/C  
BEAMS B1 ETC. 152\*152\*23 U/C  
RAFTERS R1 ETC. 152\*89\*16 U/B  
BRACINGS BR1, 76\*1\*5 CHS  
VERTICAL BRACING VB1 ETC. 80\*8 FLAT  
EAVES BEAM METSEC 170-E-20  
SIDE RAILS METSEC 142-Z-18  
PURLINS METSEC 142-Z-16



SITE DRILL  
4 NO. 22 DIA.  
HOLES AS SHOWN  
TO SUIT COLUMN LOCATION



TYPICAL SECTION GRID E-H



TYPICAL SECTION GRID A-D

REV	MARK	REVISION DESCRIPTION	REVISION DATE
1		LESTER FABS	

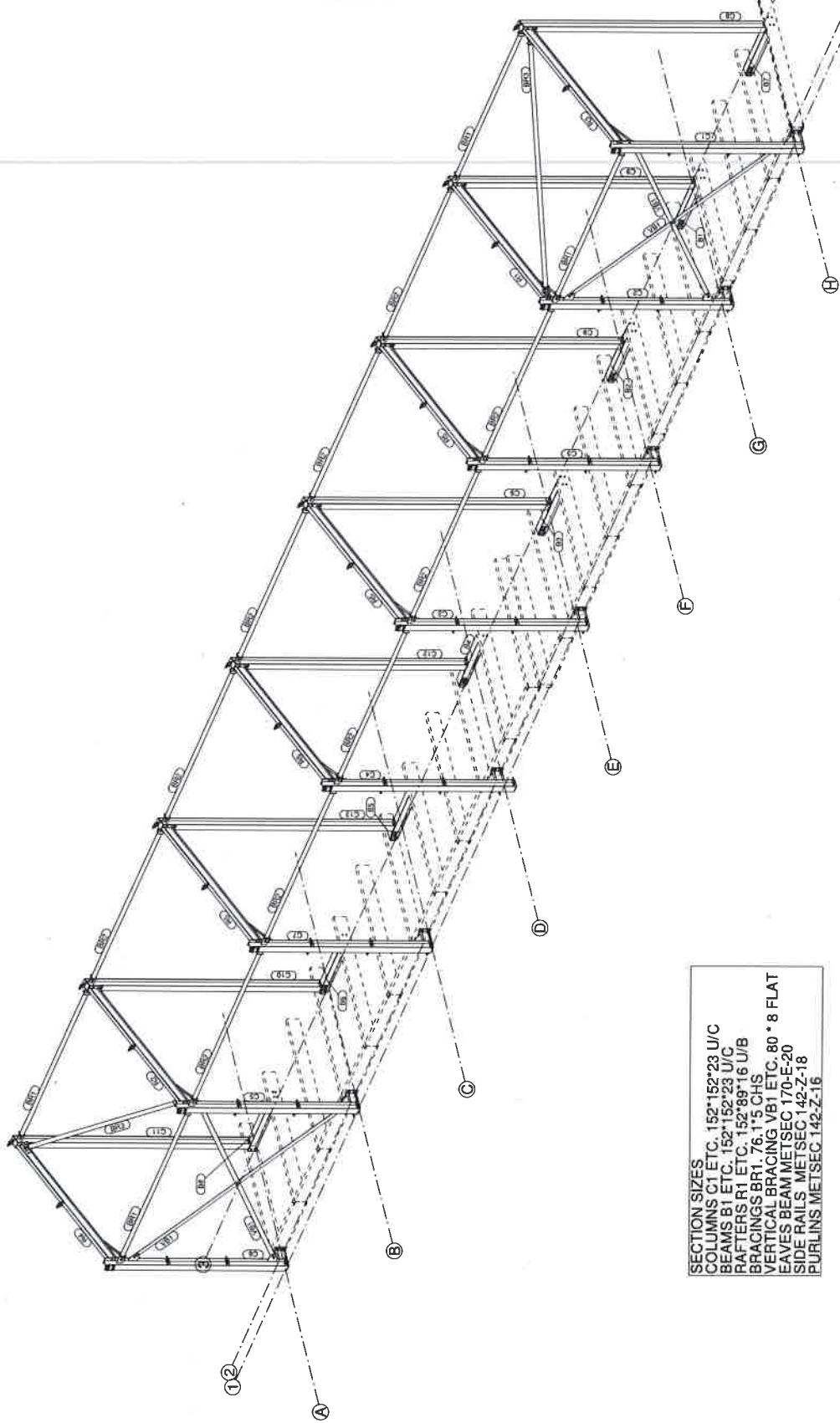
<b>Kendley Ltd</b> STEEL FABRICATION		REFERENCE DATE
15 Goodwood Road Tasmania 7244		
Tel: 08 9444 8800 Fax: 08 9444 8800		
Email: info@kendley.com.au		

DRAWING TITLE	SECTIONS
CONTRACT	CASTLE CEMENT WALKWAY
MODELLED BY	FJF
CONTRACT NO	3847
DRAWING NO	G 12
ISSUE DATE	
SCALE	1:10
REVISION NO.	1:50



RECEIVED  
13 DEC 2013



SECTION SIZES  
COLUMNS C1 ETC. 152\*152\*23 U/C  
BEAMS B1 ETC. 152\*152\*23 U/C  
RAFTERS R1 ETC. 152\*89\*16 U/B  
BRACINGS BR1. 76.1\*5 CHS  
VERTICAL BRACING VB1 ETC. 80 \* 8 FLAT  
EAVES BEAM METSEC 170-E-20  
SIDE RAILS METSEC 142-Z-18  
PURLINS METSEC 142-Z-16

3d

REV. MARK	REVISION DESCRIPTION	REVISION DATE
Kendley Ltd STEEL FABRICATION 100 BURNLEY ROAD BURNLEY, LANCASHIRE, ENGLAND Telephone: (01756) 887412 Fax: (01756) 887420 Email: sales@kendley.co.uk		
LESTER FABRICATIONS		
DRAWING TITLE	3D	CASTLE CEMENT WALKWAY
CONTRACT	FJF	ISSUE DATE
MODELLED BY	3847	SCALE
CONTRACT NO		1:40
DRAWING No	G [7]	REVISION No.

