Tech Dome Penang. Project Notes

Project Description:

This project is nearing completion, opening the beginning of June 2016. It is a project in which I contracted to Science Alive Exhibits Itd who in turn have contracted to Tech Dome Penang to build 101 exhibits here and provide exhibition design.

Completion date: mid 2016

Tim Stephenson Design's Involvement.

My role is as Exhibition Designer. In that role I have:

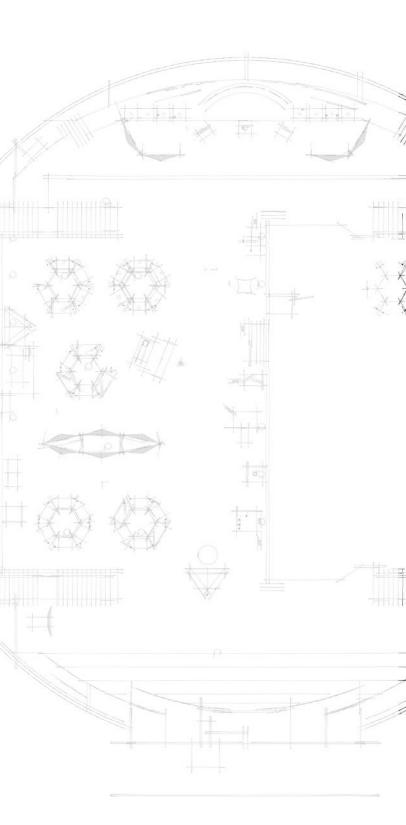
- · Worked out the layout for a predetermined set of exhibits.
- Designed the visual look of the exhibition galleries and divided the space.
- Designed and documented the interior fitout for the exhibition space. That includes full working drawings, specifications and production ready CNC files for that to be built by contractors in Malaysia.
- Designed and documented the modular exhibit table to be used on most of the exhibits. This includes full working drawings, specifications and production ready CNC files for that to be built by contractors in Malaysia.
- Produced and delivered various presentations.
- Designed and produced print ready files for all the explanatory exhibit graphic panels from content supplied by Science Alive.
- Design for electronic orientation signage.
- · Design storyboard / template for interactive boards.
- Designed a detailed lighting plan for implementation by contractors in Penang.
- Detailed a mechanical and electrical layout for implementation by contractors in Penang.
- Because I have traveled to site a several times I have become the main point of contact with the client and have therefore
 handled many other tasks outside of my original brief.

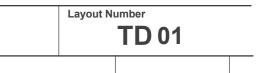
Video File

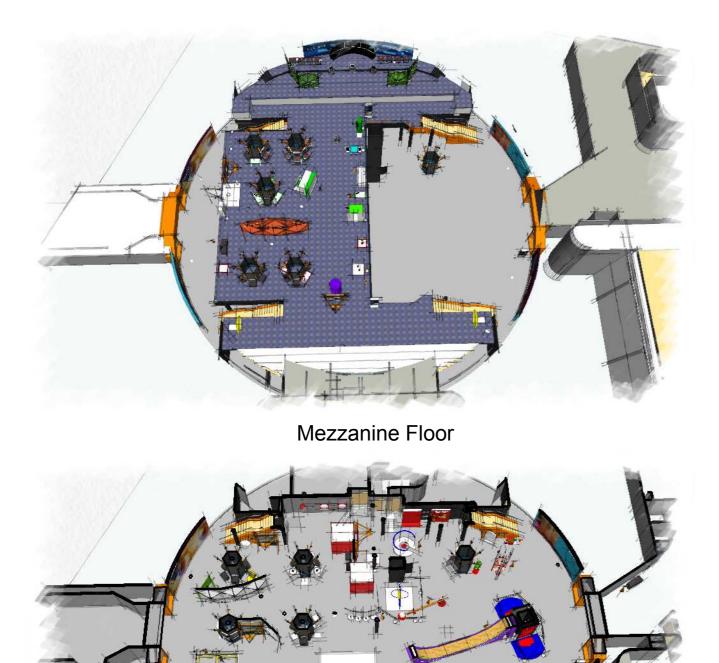
As space is limited I will attach a dropbox link to an overview presentation. Note this was done at very short notice so is a little rough around the edges in some places. But it does give a good feel for the project in a short time.

https://www.dropbox.com/s/96vxlcg8btcmukz/TD-CM-Presenation.mp4?dl=0

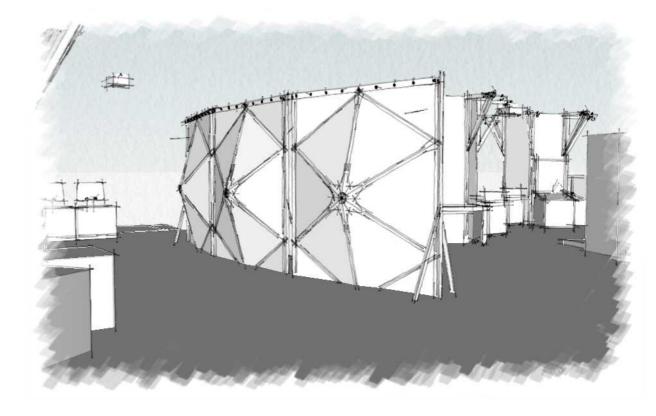












Tech Dome is built in a 44m diameter Dome with a mezzanine. There is also a large annex for cafe, two temporary exhibit spaces, kids discover area, observatory classrooms and labs.

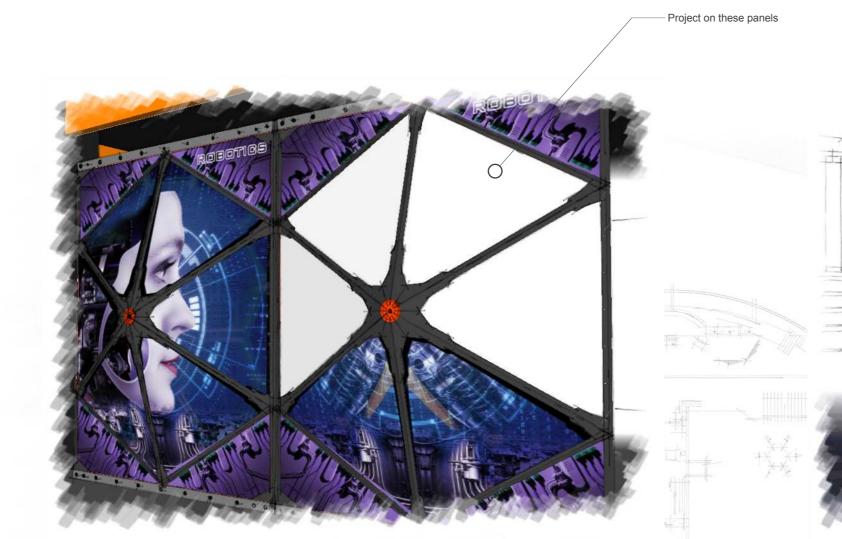
For the purposes of this I have confined it to the dome area.

Main Floor

121					
	M				Drawing
6	WORK EXAMPLE	Tech Dome	Penang		Concept Sketches
				Plot date March 28, 2016	
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Concept - gallery dividers and towers

	Layout Number
s -1	TD 02



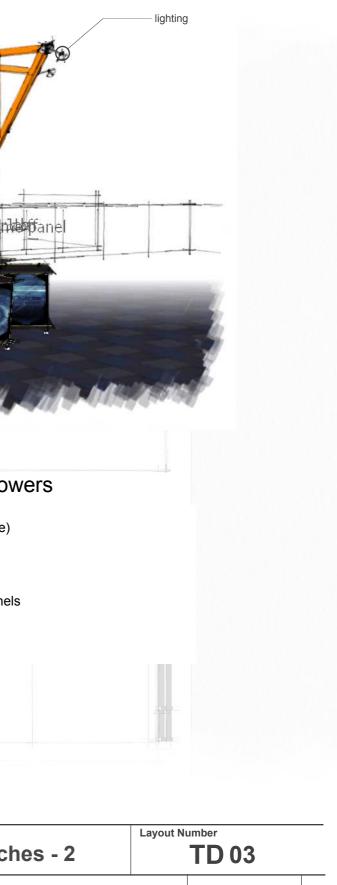
Hexagonal Screens

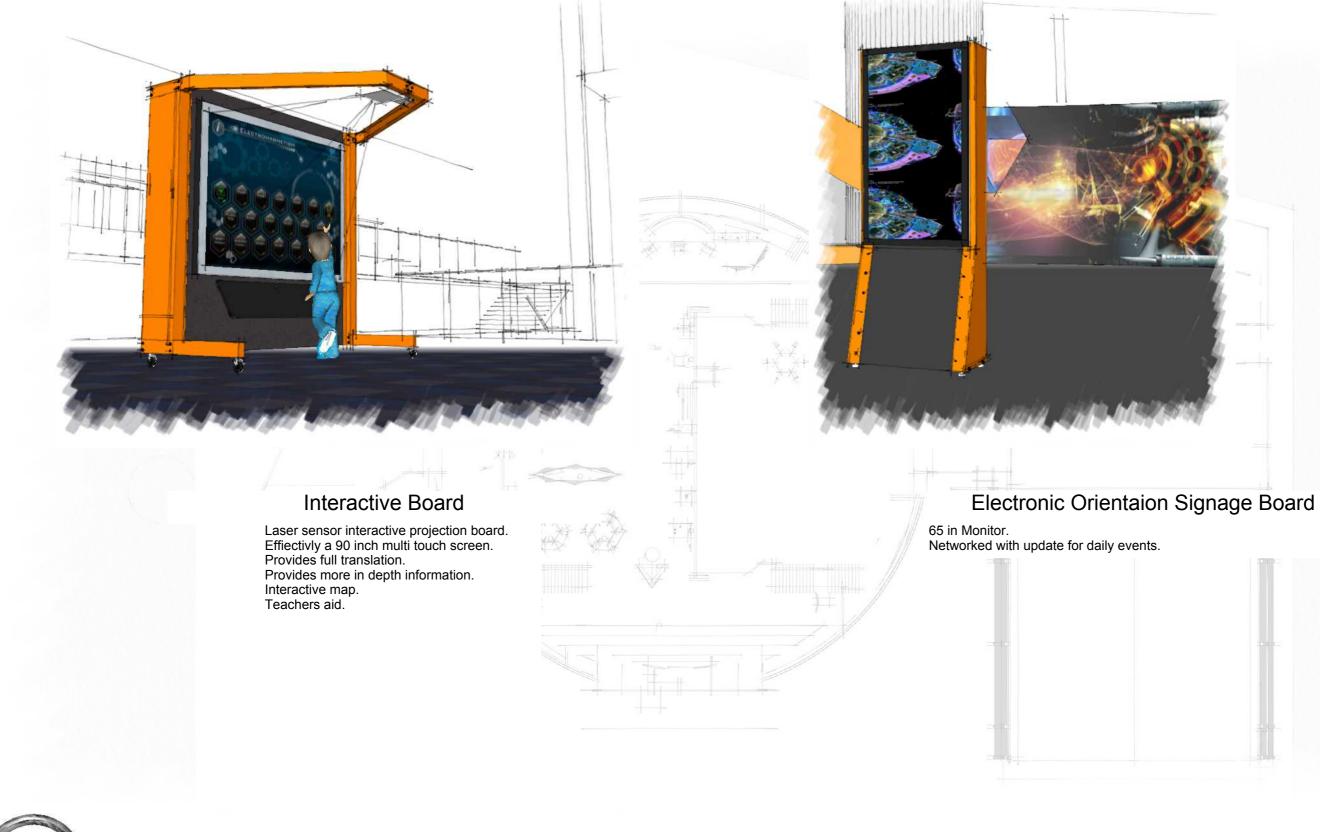
Divide gallery space Provide Theming Graphics, Can be relativly easily repositioned. Projection for moving images.

Hexagonal Towers

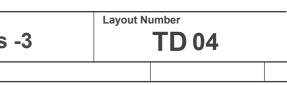
Space efficient layout of exhibits. Provides lighting (a challenge in this space) Provide theming graphics, Can be relatively easily repositioned. Distribute power and data. Easy to re-theme. Mounting of some exhibits and graphic panels

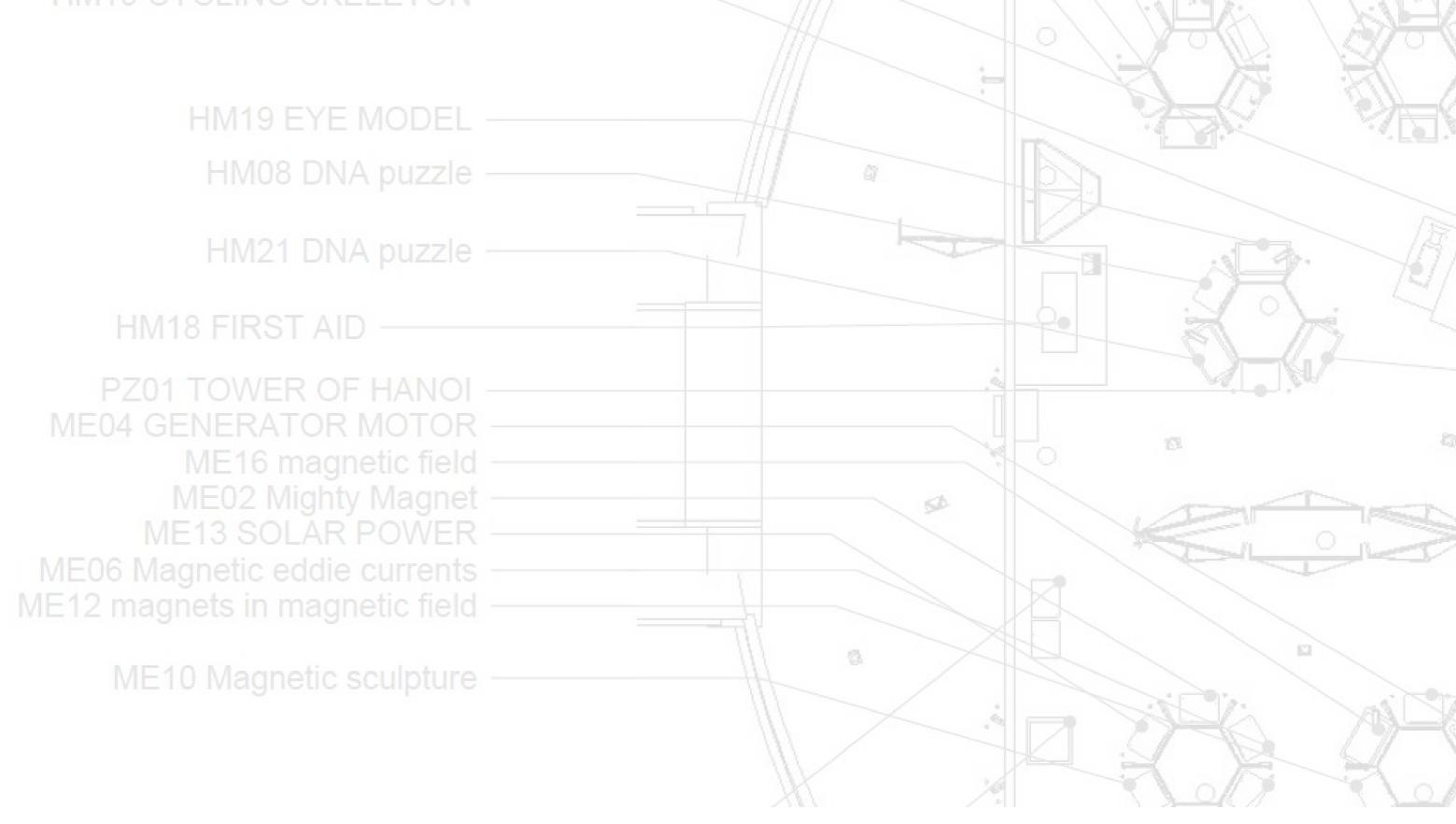
1	17					
						Drawing
		WORK EXAMPLE	Tech Dome	Penang		Concept Sketches -
	11	č		_	Plot date March 28, 2016	
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9					Drawing
WORK EXAMPLE	Tech Dome	Penang			Concept Sketches -3
			Plot date	March 28, 2016	
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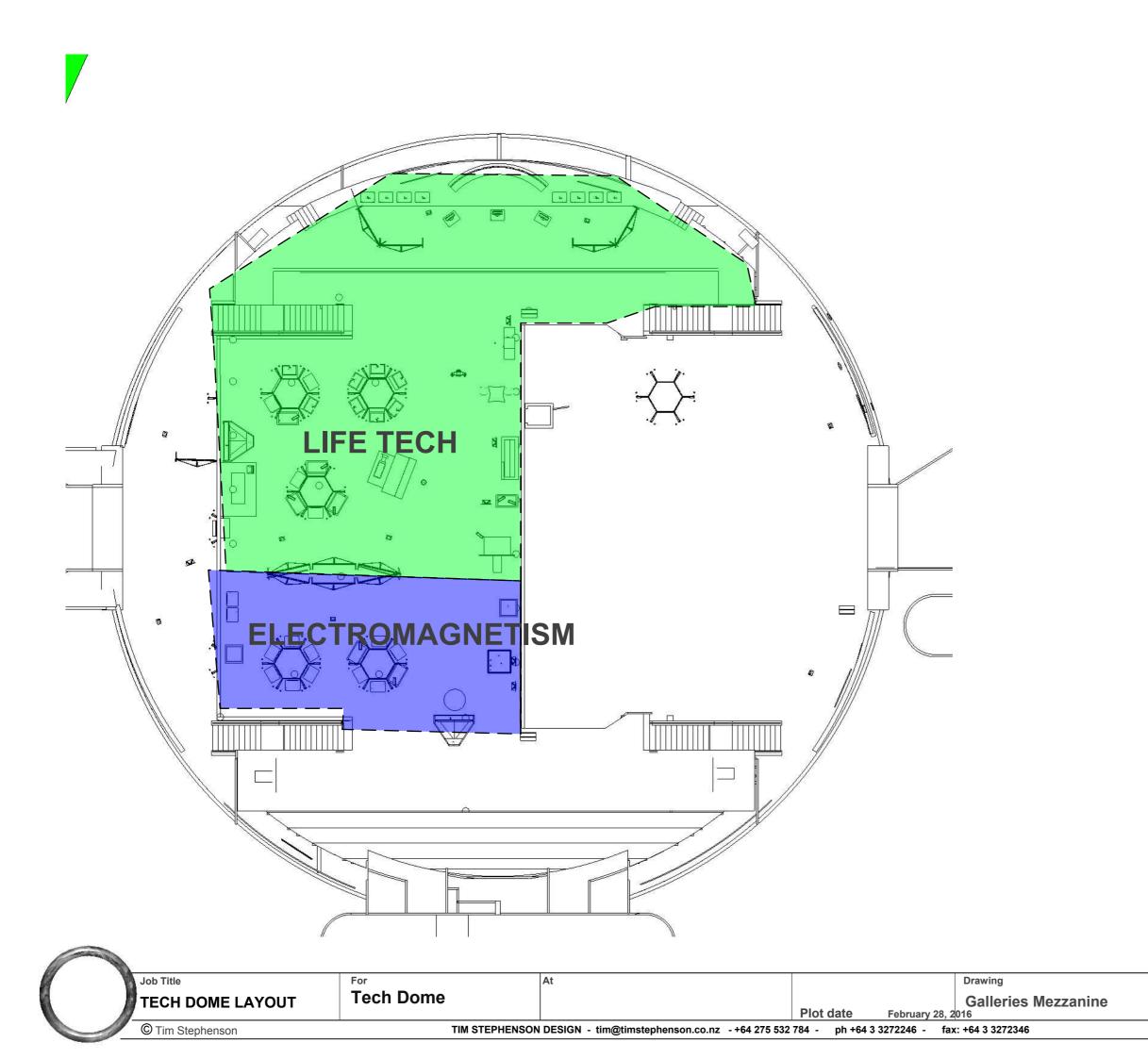


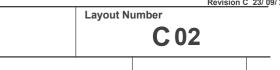


The following section is a selection of Spatial -layout drawings only selectected drawings have been included

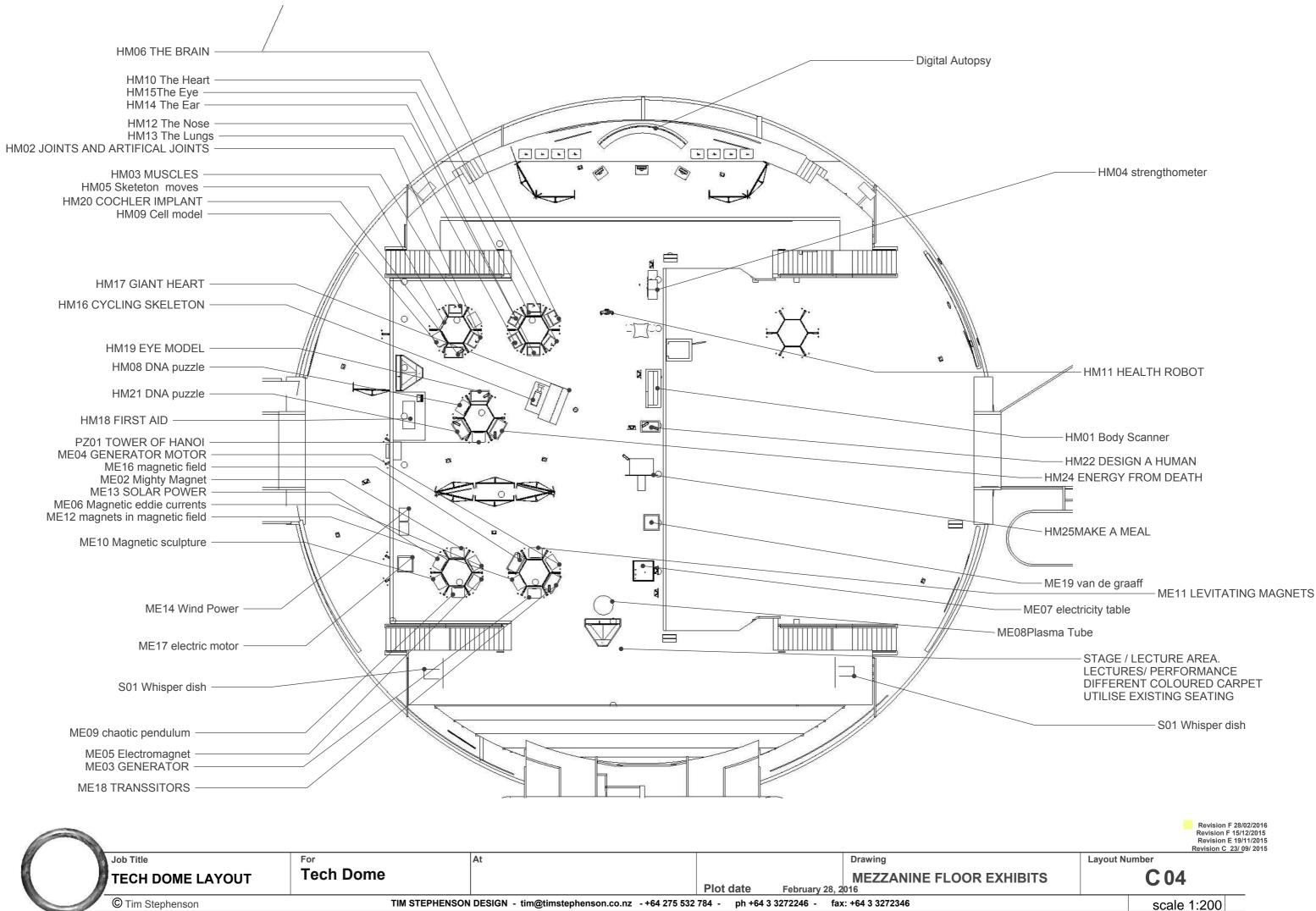
WORK EXAMPLE	Tech Dome	Penang		Drawing
WORK EXAMPLE	Tech Dome	T enang	Plot date March 28, 2016	Layout section
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Layout N	umber	
	TD 05	

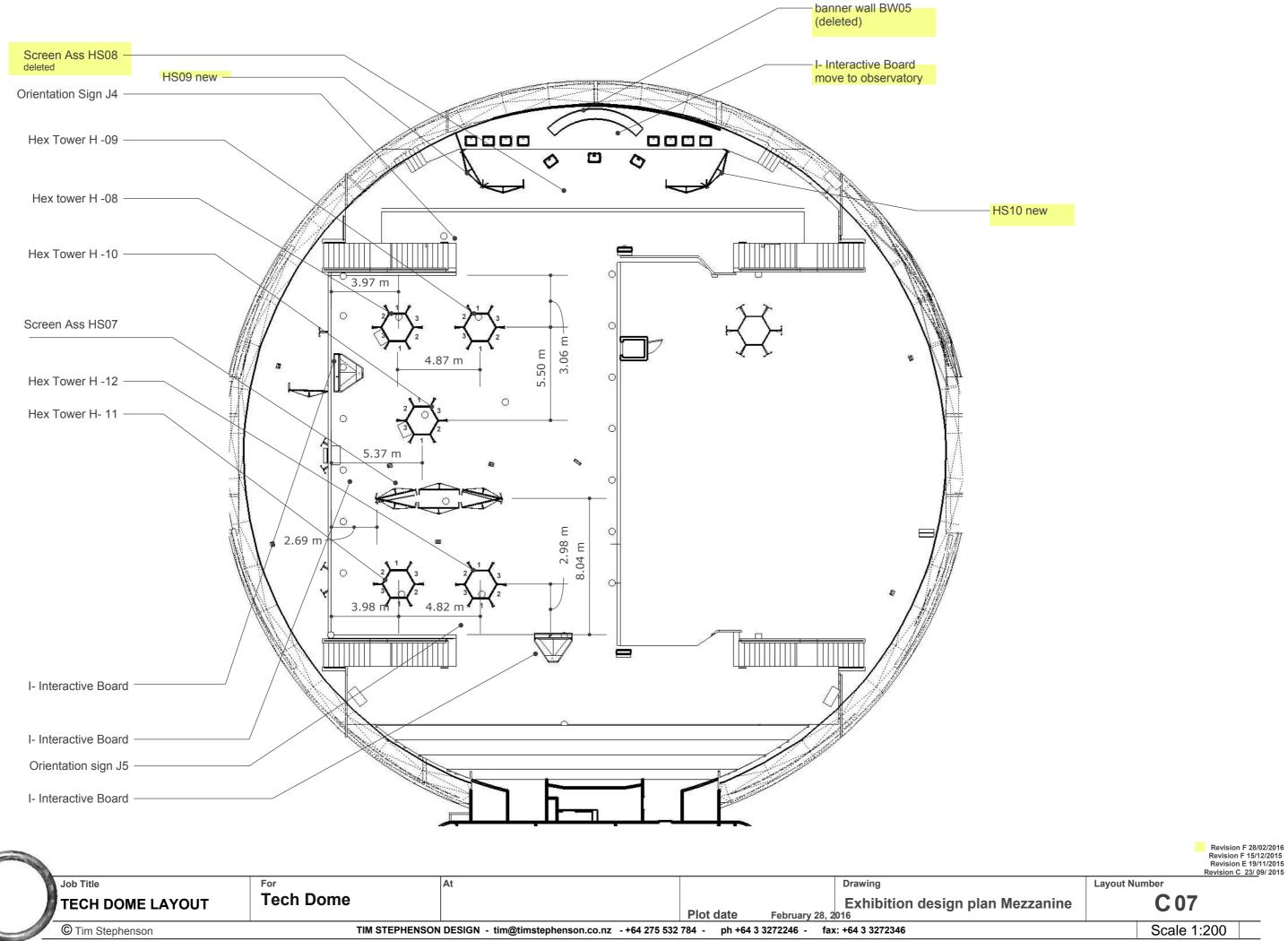


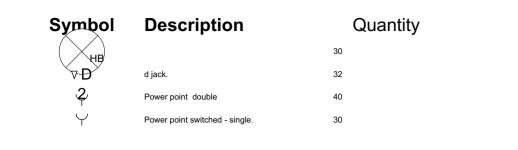


Revision F 28/02/2016 Revision F 15/12/2015 Revision E 19/11/2015 Revision C 23/ 09/ 2015

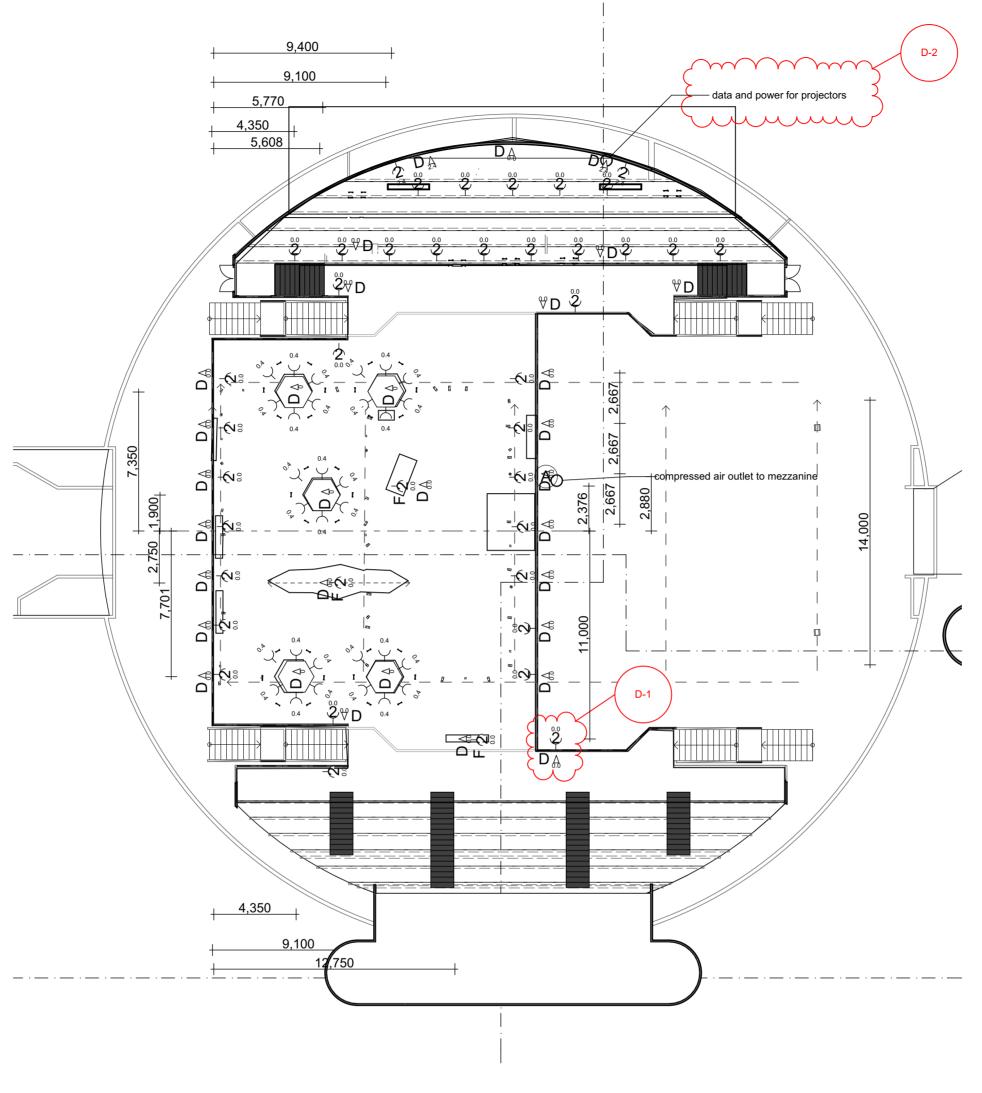


		107. 104 0 0
 For approx measurem	pents use acrobat reader measuring tool, (instructions: https://www.youtube.com/watch?v=xm1iwzOjwl4)	

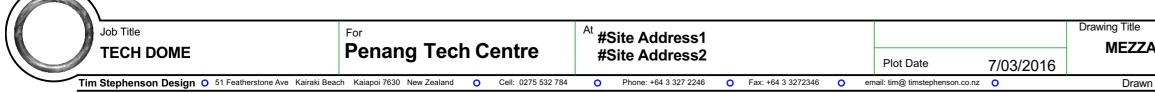




2 Electrical Components Legend MEZZANINE 1:1



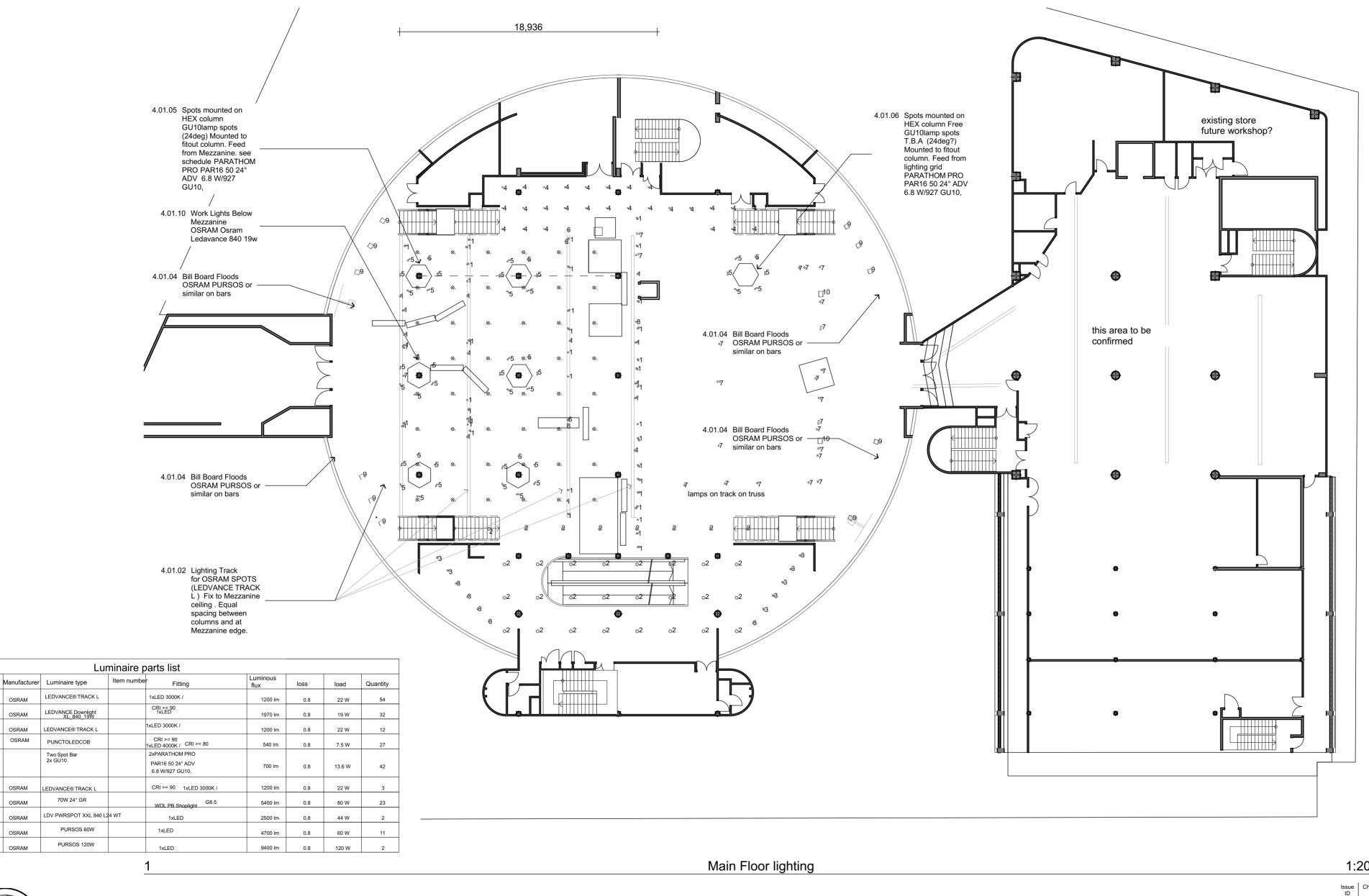
MEZZANINE ELECTRI



RICAL	1:200

ZANINE E	LECTRICAL LAYOUT	Drawing Number	D
wn Tim	Stephenson ALL DIMENSIONS T	O BE VERIFIED ON SITE	•

lssue ID	ChID	Change Name	Date
С			05/10/2015
D	D-1	power data added	7/03/2016
	D-2	projectors deleted	



	Job Title		At #Site Address1		Dra Mainter lo
	TECH DOME	Penang Tech Centre	#Site Address2	Plot Date 7/03/201	16
\smile	Tim Stephenson Design O 51 Featherstone Ave Kairaki Beau	ch Kaiapoi 7630 New Zealand O Cell: 0275 532 784	O Phone: +64 3 327 2246 O Fax: +64 3 3272346 O	email: tim@ timstephenson.co.nz	Drawn

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OSRAM

OSRAM

OSRAM

OSRAM

OSRAM

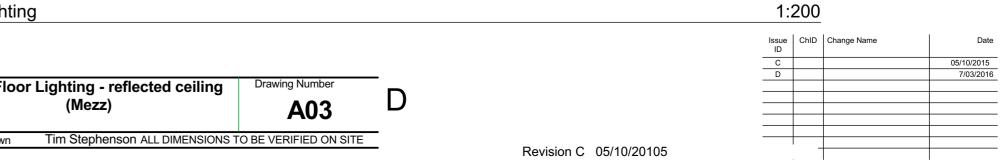
OSRAM

OSRAM

OSRAM

Two Spot Bar 2x GU10

OSRAM

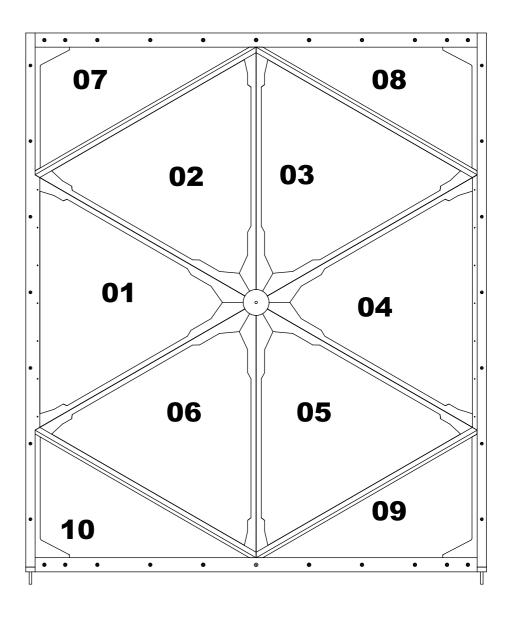


	D 07 Front panel
10G X 1/2 He	x socket S/Tap 304 s/s
Working Drawings The full set of construction drawings numbers over one hundred pages, plus dxf file and mor Full Documentation includes: Working drawings of all parts and assemblies. DXF files for CNC manufacture of all parts. A detailed Bill Of Materials for all parts including fasteners. A detailed Schedule of all Assemblies and Printing. A written specification covering all materials, parts, assemblies, installation and hand	D04Base 2
	on: either castors or foot.

only selected drawings have been included.







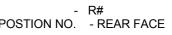


PANEL NOTATION FOR PRINT REFERENCE

HW#	-	#	-	F#
ASSEMBLY NO	0 SCF	REEN No.	-	FRONT FACE FOR PC
FOR POSTION	NO I			

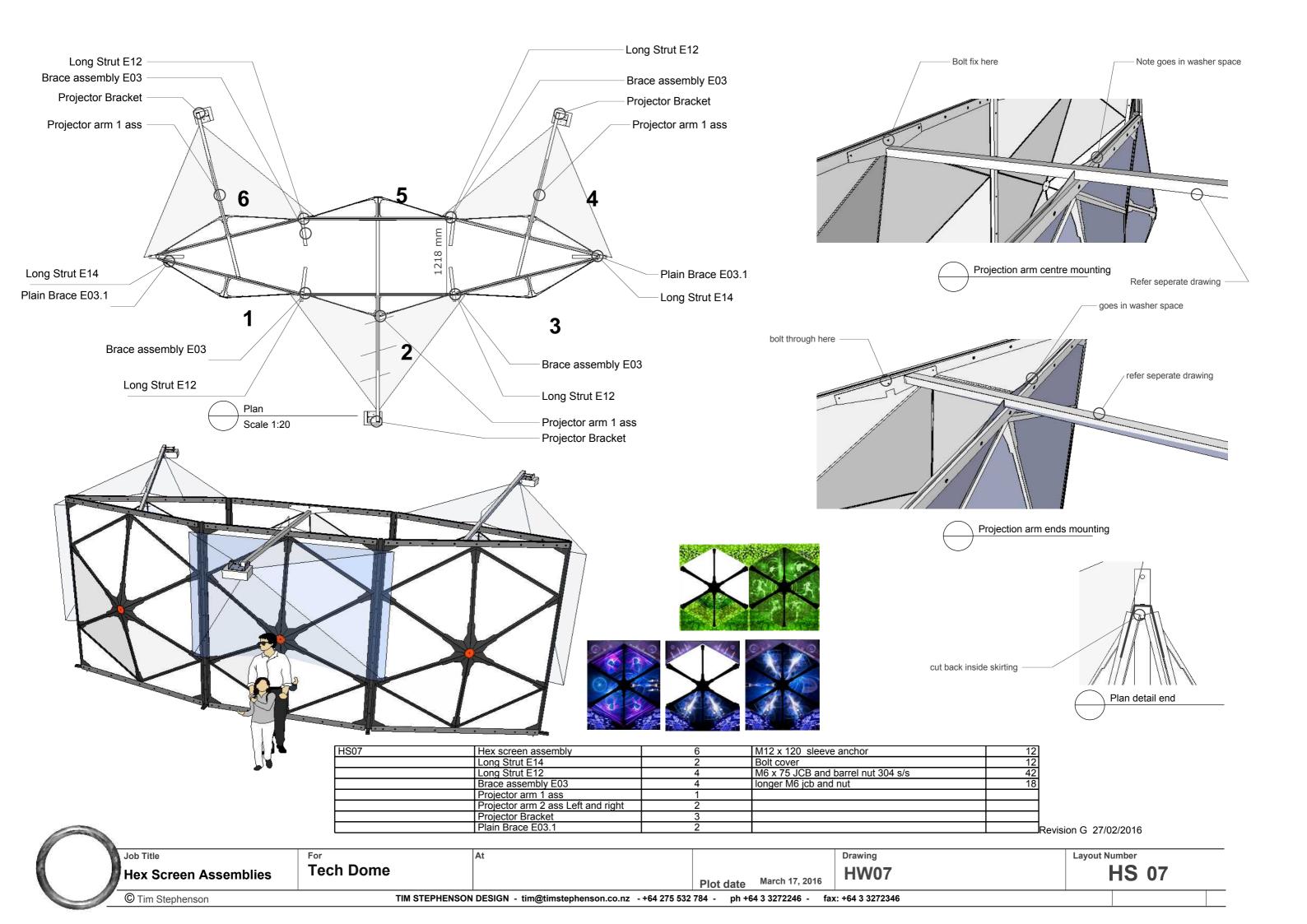
i.e. HW01-2 - F2 is the front face of position 02 on screen no. 2 on assembly HW01

Job Title	For	At		Drawing
Hex Screen Assemblies	Tech Dome		Plot date March 17, 2016	Panel Notation
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Revision G 27/02/2016

Layout N	umber HS	

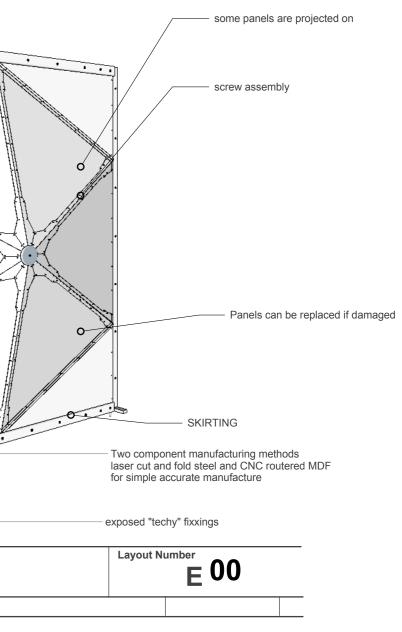


HEXSCREENS							
SHEET AND PART INDEX							
Sheet	Parts Info			Parts Material			
	Part Name	Quantity (per screen)	Part Notes	Core	Finish		
E01-E02	n/a	n/a	Assembly Drawing Only				
E03	Brace E03	Various depends on assembly		Welded hollow steel sections(50x 50 x 2 + 50 x 25 x 2mm)	Epoxy Powdercoat Satin Black		
	Plain Brace E03.1						
						M12 plastic cap	2
E04	Skirting	4		HDPE	Black	M6 x 75 JCB and barrel nut 304 s/s	22
E05	Strut 1	6		3 mm cold rolled steel	Epoxy Powdercoat Satin Black	10g x ¹ / ₂ hex socket cap s/tap 304 s/s	204 204
E06	Side Strut 1	4		3 mm cold rolled steel	Epoxy Powdercoat Satin Black	M5 x 10 x 1 flat washer	204
E07	Screen Panel	6		9 mm water resistant MDF	Melamine: White		
E08	Screen Panel Small	4		9 mm water resistant MDF	Melamine: White	13 mm tee edge	13 m
E09	Disk	3		HDPE	Black		
	Disk Spacer	1		HDPE	Black		
	washer	20		3 mm cold rolled steel	Epoxy Powdercoat Satin Black		
E10	Long Strut E10	Various depends on assembly		3 mm cold rolled steel	Epoxy Powdercoat Satin Black		
E11	Long Strut E11	Various depends on		3 mm cold rolled steel	Epoxy Powdercoat Satin Black		
		assembly					
E12	Long Strut E12	Various depends on assembly		3 mm cold rolled steel	Epoxy Powdercoat Satin Black		
F 40							
E13	Long Strut E13	Various depends on assembly		3 mm cold rolled steel	Epoxy Powdercoat Satin Black		
E14	Long Strut E14	Various depends on assembly		3 mm cold rolled steel	Epoxy Powdercoat Satin Black		

This is for one screen refer to assembly set for details of joiners and print finishes. See hex screen printing schedule for panel printing finshes

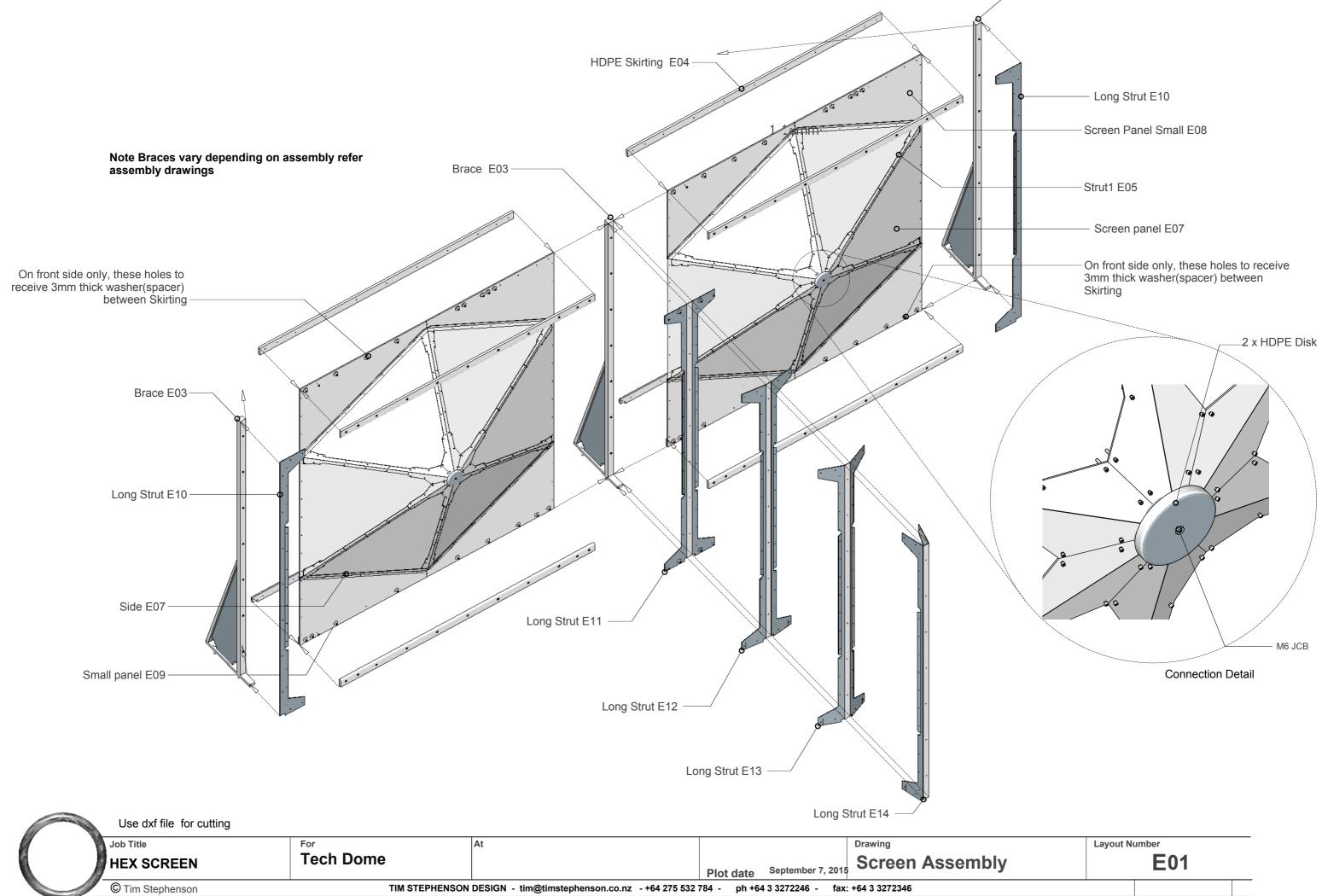
Canal

14	100					
1		Job Title	For	At		Drawing
6		HEX SCREEN	Tech Dome		Plot date Septembe	r 7, 2015 Cover Page
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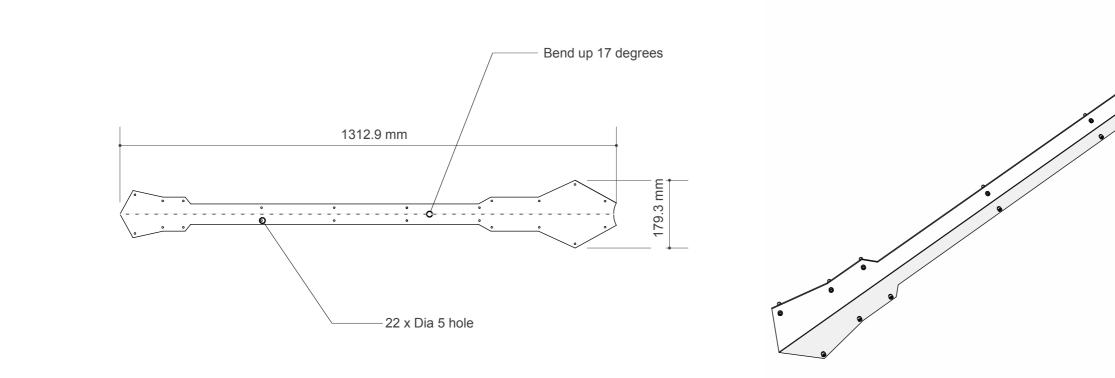
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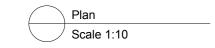


Brace E03

	Layout Number				
7	E01				

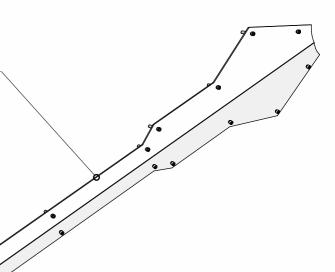
3 mm cold rolled steel



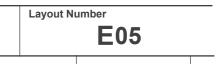


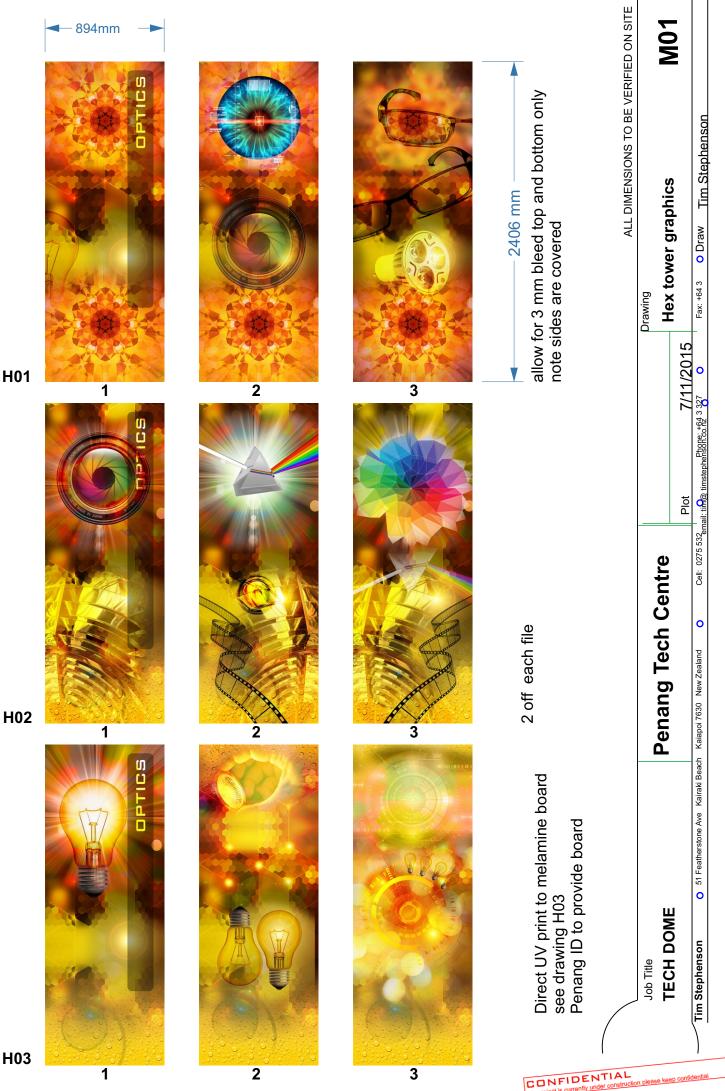
material: 3 mm cold rolled steel finish epoxy powdercoat satin black debur all edges

Use dxf file for cutting				
Job Title	For	At		Drawing
HEX SCREEN	Tech Dome		Plot date September 7, 2015	Strut1
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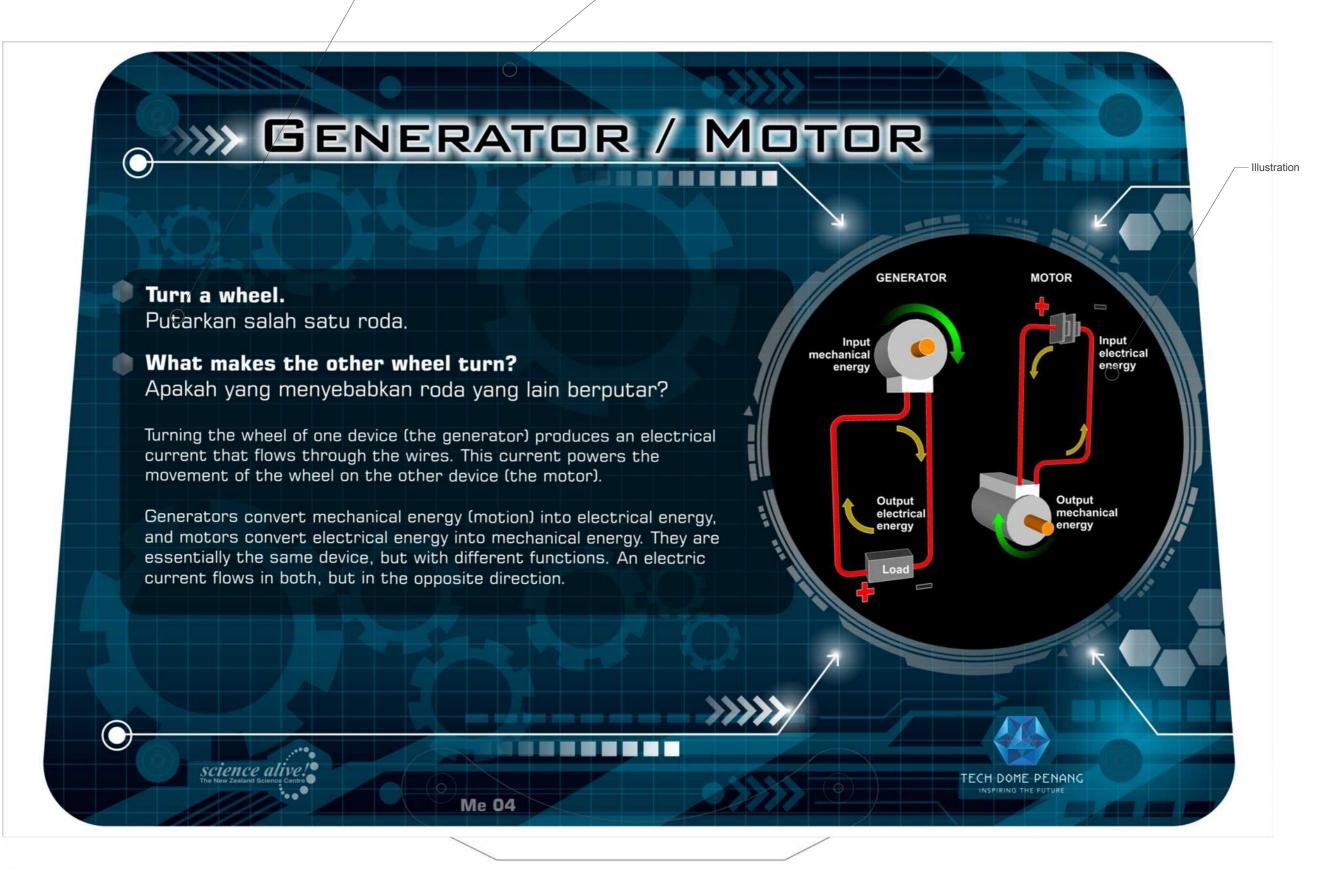
Perspective



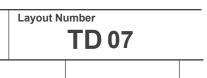


 Translation for instructions only.
 Full translations available on Interactive Board available in each gallery.

- Themed colour for different galleries



WORK EXAMPLE	Tech Dome	Penang	Plot date March 28, 2016	Drawing Graphic Panels
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Y						
WORK EXAMPLE	Tech Dome	Penang	Plot date	March 28, 2016	Prototype Constru	
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