



Rented Pavilion

MSR -Thematic District

Existing Condition and Information

No.05007-PLP-IPA0030000-AR-000004 Rev. 1

September 2018



Review and Approval

Rented Pavilion MSR in Thematic District rev. 1

Action	Name and Role	Signature	Date
Prepared by	Francesco Rengifo Senior Design and Technical Coordinator		
Reviewed by	Robin Johnson Senior Design Manager, Thematic Districts		
Checked by	Ma'en Awad Senior Technical Manager		
Approved by	Afraa AlShalabi Senior Project Manager		

Notes:

- The Pavilion location was created using the Expo 2020 Event Masterplan revision 26 as a background for the figure.
- Design drawings are subject to change. As built drawings must be utilised for final design submission.

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DRAWING LIST

Document No

60020-SDW-S100000-AR-6GF142(1)	60020-SDW-S105655-HV-2GF001(2)
60020-SDW-S100000-AR-6GF143(1)	60020-SDW-S105655-HV-201001(2)
60020-SDW-S100000-AR-6GF144(1)	
60020-SDW-S100000-AR-601152(1)	60020-SDW-S105655-LI-2GF002(1)
60020-SDW-S105600-AR-6GF004(1)	60020-SDW-S105655-LI-200001(1)
60020-SDW-S105600-AR-200625(2)	
60020-SDW-S105600-AR-200626(1)	60020-SDW-S105655-ME-2GF001(2)
60020-SDW-S105600-AR-300631(2)	60020-SDW-S105655-ME-201001(2)
60020-SDW-S105600-AR-300632(2)	60020-SDW-S105655-ME-800007(1)
60020-SDW-S105600-AR-400631(2)	
60020-SDW-S105600-AR-400632(2)	60020-SDW-S105655-SE-200001(1)
60020-SDW-S105600-ST-6GF194(1)	
60020-SDW-S105655-AR-2GF001(1)	60020-SDW-S100000-ST-6GF951(A)
60020-SDW-S105655-AR-4GF001(1)	60020-SDW-S100000-ST-6GF952(B) (1)
60020-SDW-S105655-AR-200920(2)	60020-SDW-S100000-ST-600102(2)
60020-SDW-S105655-AR-600001(1)	60020-SDW-S100000-ST-600206(1)
60020-SDW-S105655-AR-600702(1)	60020-SDW-S100000-ST-600208(1)
60020-SDW-S105655-AR-601001(1)	60020-SDW-S100000-ST-600214(1)
	60020-SDW-S105655-ST-6GF001(1)
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	60020-SDW-S105655-ST-6RF512(1)
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60020-SDW-S105655-CE-201001(1)	60020-SDW-S105655-ST-6RF907(A)
	60020-SDW-S105655-ST-6RF908(A)
60020-SDW-S105655-DR-2GF001(2)	60020-SDW-S105655-ST-201901(1)
60020-SDW-S105655-DR-201001(2)	60020-SDW-S105655-ST-600201(A) (2)
	60020-SDW-S105655-ST-600505(2)
60020-SDW-S105655-EL-200003(1)	60020-SDW-S105655-ST-600901(1)
	60020-SDW-S105655-ST-600902(1)
60020-SDW-S105655-FC-200100(2)	60020-SDW-S105655-ST-600903(A) (1)
60020-SDW-S105655-FC-300001(1)	60020-SDW-S105655-ST-600904(A) (1)
60020-SDW-S105655-FC-300100(2)	60020-SDW-S105655-ST-600911(A) (1)
60020-SDW-S105655-FC-400001(1)	60020-SDW-S105655-ST-600951(1)
60020-SDW-S105655-FC-400100(1)	60020-SDW-S105655-ST-600952(1)
	60020-SDW-S105655-ST-600953(1)
60020-SDW-S105655-FP-2GF001(2)	
60020-SDW-S105655-FP-200001(3)	60020-SDW-S105655-TC-200001(1)
60020-SDW-S105655-FP-201001(2)	
	60020-SDW-S105655-WP-2GF001(1)
	60020-SDW-S105655-WP-201001(1)



1.0 **Location Plan**



LOCATION PLAN MSR
EXPO 2020 EVENT MASTER PLAN

Figure 1.0



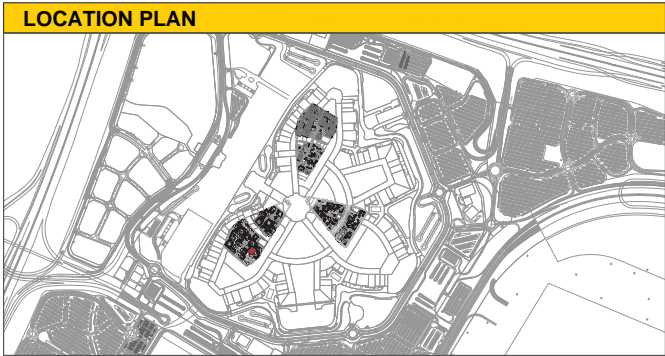
2.0 Pavilion Sheet

PAVILION DETAILS	
LAND USE	COMMERCIAL
BUILDING TYPOLOGY	RENTED PAVILION
EXHIBIT AREA M2	436.56 sq.m
OFFICE AREA M2	382.57 sq.m
GROUND FLOOR CLEARANCE HEIGHT (SLAB TO CEILING)	5.00 m (Including a 1m MEP zone)
FIRST FLOOR CLEARANCE HEIGHT (SLAB TO CEILING)	3.46 m (Not including 150 mm for floor build up)

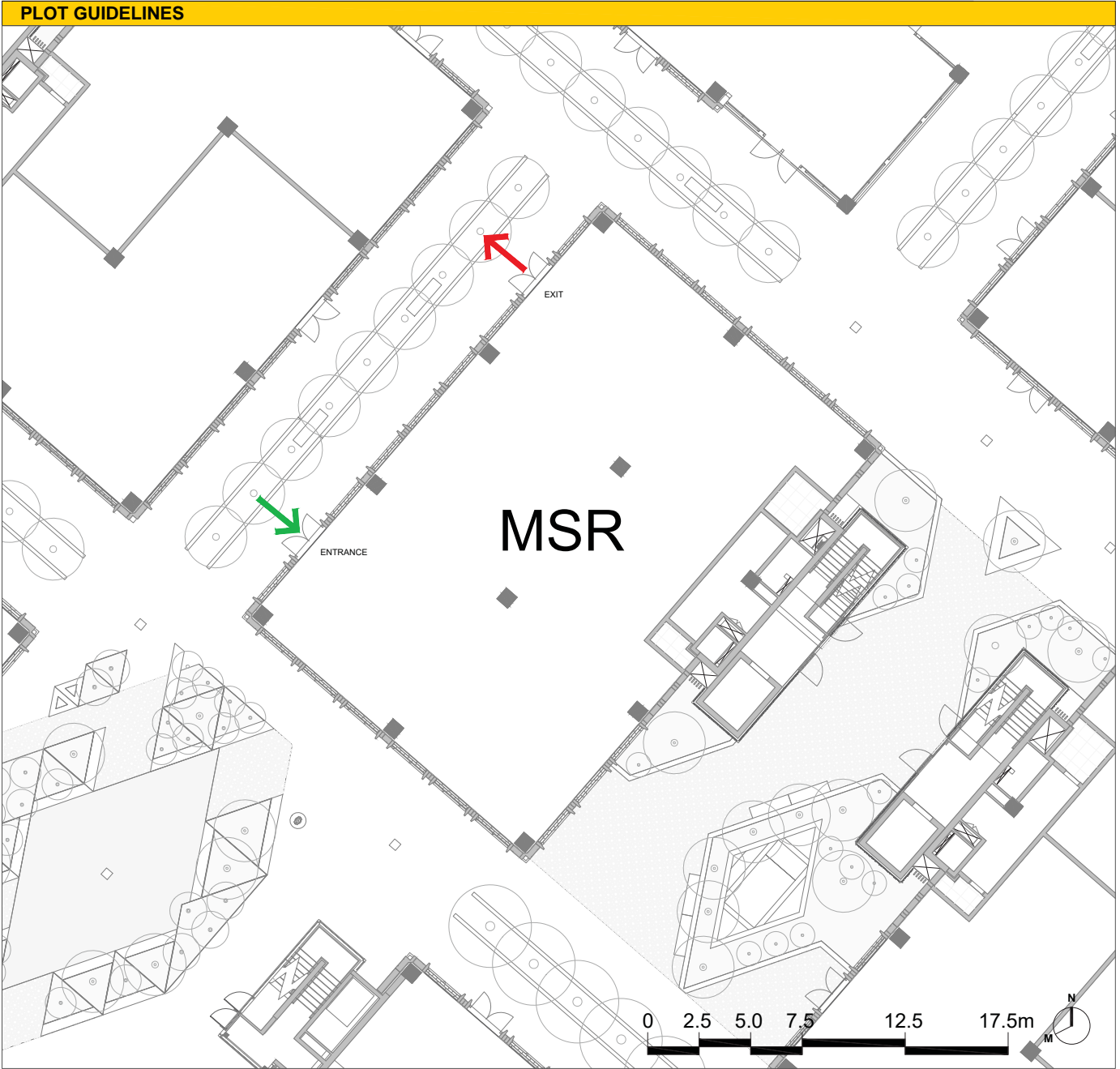
DESIGN NOTES	
1.	REFER TO 'RENTED PAVILION GUIDE' WHERE APPROPRIATE FOR DESIGN GUIDES & CONTROLS
2.	THIS PAVILION SHEET IS SUBJECT TO CHANGE.
3.	INFRASTRUCTURE ALLOCATION IS BASED ON DM GFA DEFINITION.
4.	PARTICIPANTS SHOULD ABIDE BY DUBAI MUNICIPALITY AND DUBAI SOUTH CODES AND OTHER AUTHORITIES AS NOTED IN THE GUIDELINES.
5.	THE PARTICIPANT IS RESPONSIBLE TO DESIGN AND IMPLEMENT AN EFFECTIVE CONSTRUCTION STRATEGY TO AVOID ANY IMPACT OR DAMAGES TO STRUCTURE OF EXTERNAL SPACES.
6.	NO LPG PROVISIONS ARE AVAILABLE WITHIN THE PAVILION PREMISES.
7.	NO KITCHEN EXTRACT IS PROVIDED.
8.	THE MAXIMUM ALLOWED COMMERCIAL AREA PER PAVILION IS 20 PERCENT OF THE GROUND FLOOR AREA OF THE PAVILION.
9.	ANY CHANGES TO INSTALL FOOD AND BEVERAGE PROVISIONS MUST NOT AFFECT THE STRUCTURAL INTEGRITY OF THE PAVILION AND MUST BE APPROVED BY THE ORGANISER AND AUTHORITIES.
10.	PARTICIPANTS MUST RETURN THEIR PAVILION TO THE ORGANISER IN THE SAME CONDITION AS IT WAS RECEIVED.

STRUCTURAL LOADS			
LIVE LOAD	5 kN/m2	SUPERIMPOSED DEAD LOAD	5 kN/m2

INFRASTRUCTURE NOTES	
Potable Water	32mm PPR provision with connected flow rate of 0.32 l/s, max flow rate available 0.41 l/s
LPG	None available at present
Outside Air Provision	Ground: 1.01m3/s First: 0.21m3/s
Electricity	1No. 3-phase SMDB provided at ground floor. Total connected load is 89.85kW Spare Capacity is 17.10kW
Safety & IT	Landlords: 1No. Rack for IT 1No. Rack for Safety CCTV cameras and access control provided as per the layouts
Back-up Power	None for tenant
Cooling	Ground: 92kW First: 42kW
Fire Protection	Sprinklers & Hose Reels
Fire Alarm	Dedicated fire alarm panel connected to the organisers network.
Telecommunications	2-core fibre connection from telecoms room to optical network unit at ground floor.

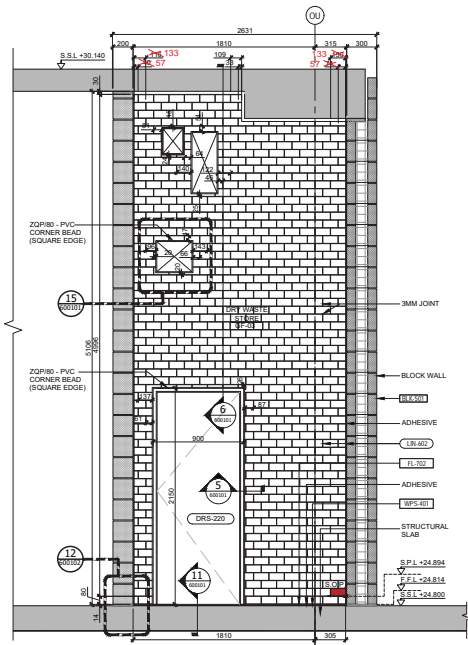


COUNTRY	PLOT CODE	PLOT SHEET NUMBER	DATE	
REPUBLIC OF CROATIA	EXPO 2020 DUBAI - PAVILION : MSR	05007-PLP-IPA0035655-AR-000001	OCT - 2018	
	WBS : 600		REVISION 2	

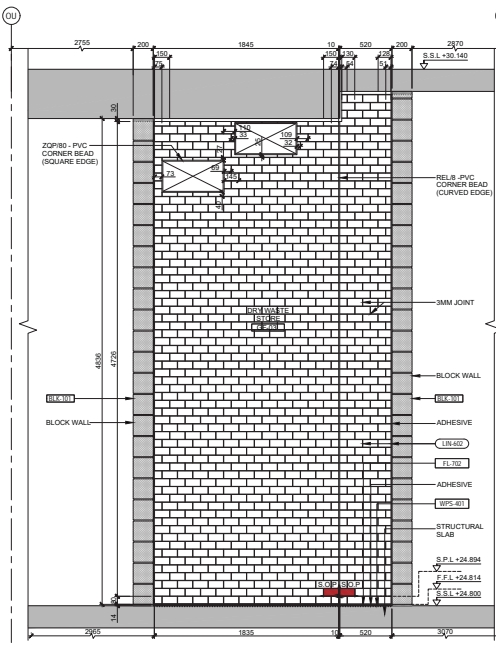


The background of the slide features abstract, flowing shapes in shades of yellow and brown. A large, dark brown shape curves from the top left towards the center. Another lighter brown shape curves from the top right towards the center. The remaining areas are filled with various shades of yellow, creating a dynamic and modern aesthetic.

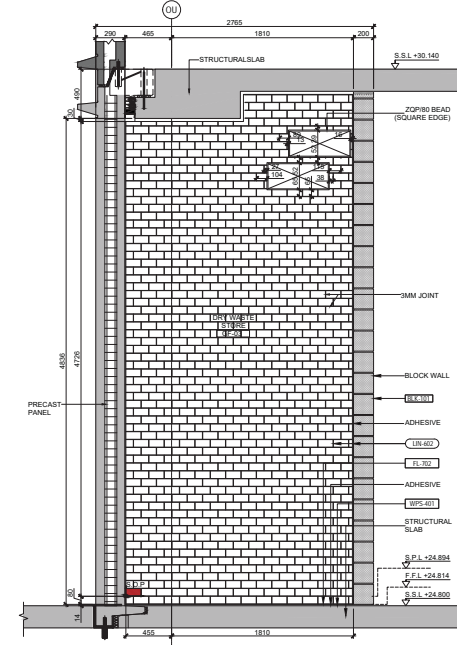
3.0 Architectural Drawings



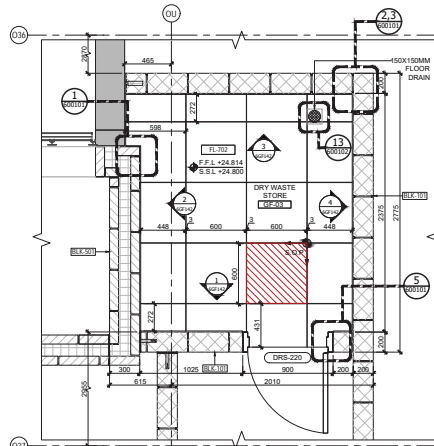
2 ELEVATION-01
SCALE 1:25



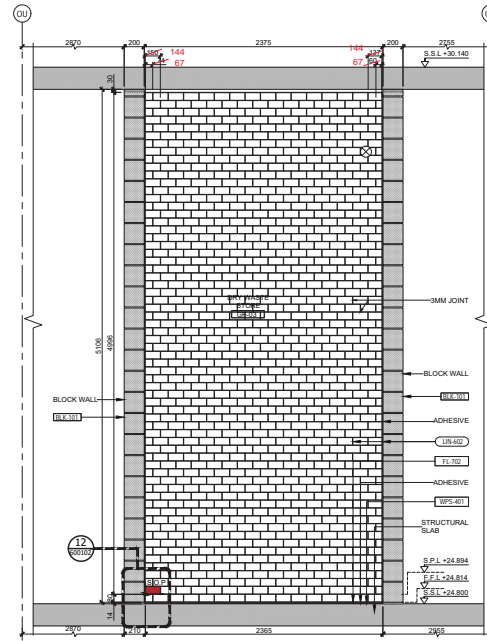
3 ELEVATION-02
SCALE 1:25



4 ELEVATION-03
SCALE 1:25



5 ELEVATION-04
SCALE 1:25



6 ELEVATION-05
SCALE 1:25

NOTE:

- FOR TILING TYPICAL DETAIL REFER THE DRAWING NO. 60020-SDW-S100000-AR-600101 AND 600102
- MEP BUILDER'S WORK TO BE COORDINATED AND CONFIRMED BY MEP CONTRACTOR

RFI REFERENCE:-

AFC-RFI-003562 - CONFIRMED ON SLOPE NODE TOILETS, WASTE ROOM, CLEANER'S ROOM, SLOPE TO BE PROVIDED IN ABUTMENT ROOM ONLY

AFC-RFI-003111 - BASEMENT CHUTE ROOMS & SERVICE/MULTI-LATERAL PARKING'S WASTE (GARBAGE) ROOMS WALL TILE HEIGHT.

AFC-RFI-004153 - CONFIRMATION OF TILING EDGE/ CORNER BEAD DETAIL FOR TOILET, WASTE ROOM, CHUTE (ALL DISTRICT)

BLNO	PATTERN	TAG	DESCRIPTION
01		600x600MM CERAMIC FLOOR	WASTE (WASTE RM)
02		75x150MM CERAMIC WALL TILING	(WASTE ROOM)
03		WET AREAS WATERPROOFING SYSTEM	
04		MASTER TILE FLEX 20 FLEXIBLE TILE ADHESIVE	
05		MASTER TILE-330 COLOURED LATEX MODIFIED CEMENT GROUT	

IFC ARCHITECTURAL DRAWINGS:-
10026-DWG-S100000-AR-700044 REV.A (DATED 27/07/2017)

AFC BLOCKWORK SHOP DRAWINGS:-
60020-SDW-S100455-AR-20F001 REV.1 (DATED 15/03/2018)

CADS SHOP DRAWINGS:-
60020-SDW-S100455-SI-20F001 REV.A (DATED 28/11/2017)
60020-SDW-S100455-SI-20F001 REV.B (DATED 21/12/2017)

MATERIAL SUBMITTAL No:-
60020-WAT-S100000-AR-000025 (2) - ADHESIVE
60020-WAT-S100000-AR-000026 (2) - GROUT
60020-WAT-S100000-AR-000022 (1) - FLOOR TILE
60020-WAT-S100000-AR-000020 (2) - WALL TILE
60020-WAT-S100000-AR-000026 (2) - GROUT
60020-WAT-S100000-WF-000005 (2) - WATER PROOFING

CERTIFICATION

THE CONTRACTOR CERTIFIES THAT THIS DRAWING HAS BEEN COORDINATED, CHECKED FOR COMPLIANCE WITH THE CONTRACT.

ENGINEER DOCUMENT REVIEW

Document intended for compliance with the design concept and is not checked for accuracy or suitability of purpose. This review does not release the contractor from his contractual obligations, nor does it authorize changes in the Contract Scope / Period.

☐ A. APPROVED
☐ B. APPROVED WITH COMMENTS
☐ C. REJECTED

REVIEWED BY	DISCIPLINE	STATUS	SIGNATURE	DATE
Architectural (PA)	B	DE	09/09/18	
Structural (In-charge)				
Electrical (Phase Lead)				
Mechanical (Phase Lead)				
Planting (Phase Lead)				
Others				
SUBMITTAL / TRANSMITTAL				
ENGINEER / Insp. Architect			09/09/18	

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DO NOT SCALE THIS DRAWING.

KEY PLAN

0 25CM
0 1.25M
SCALE-1:5
SCALE-1:25

GENERAL NOTES

1.ALL DIMENSIONS ARE IN MILLIMETRES
2.ALL LEVELS ARE IN METRES

ABBREVIATION

S.S.L - STRUCTURAL SLAB LEVEL
F.F.L - STRUCTURAL SLAB LEVEL
S.P.L - STARTING POINT LEVEL

LEGENDS

- START TILE
- START POINT

No.	Description	Revised By	Revised Date	Revised
1	FIRST ISSUE	23/08/2018	R.K	SS
No.	Explanatory Note	Date	Drawn	Checked

CLIENT:

EXPO 2020

PROGRAMME/PROJECT MANAGEMENT CONSULTANT:

ch2m mace

DESIGN CONSULTANT:

Hopkins Architects

MAIN CONTRACTOR:

الطريق للطاقة

At-Fatima carillion

SUB-CONTRACTOR:

omnix

Project

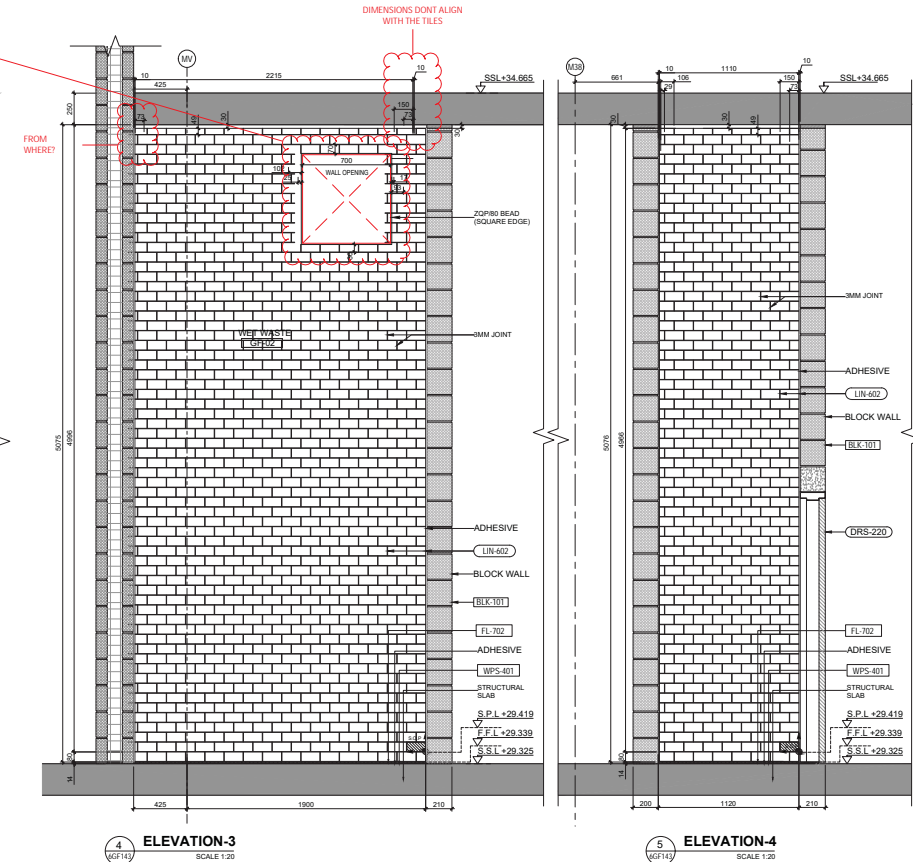
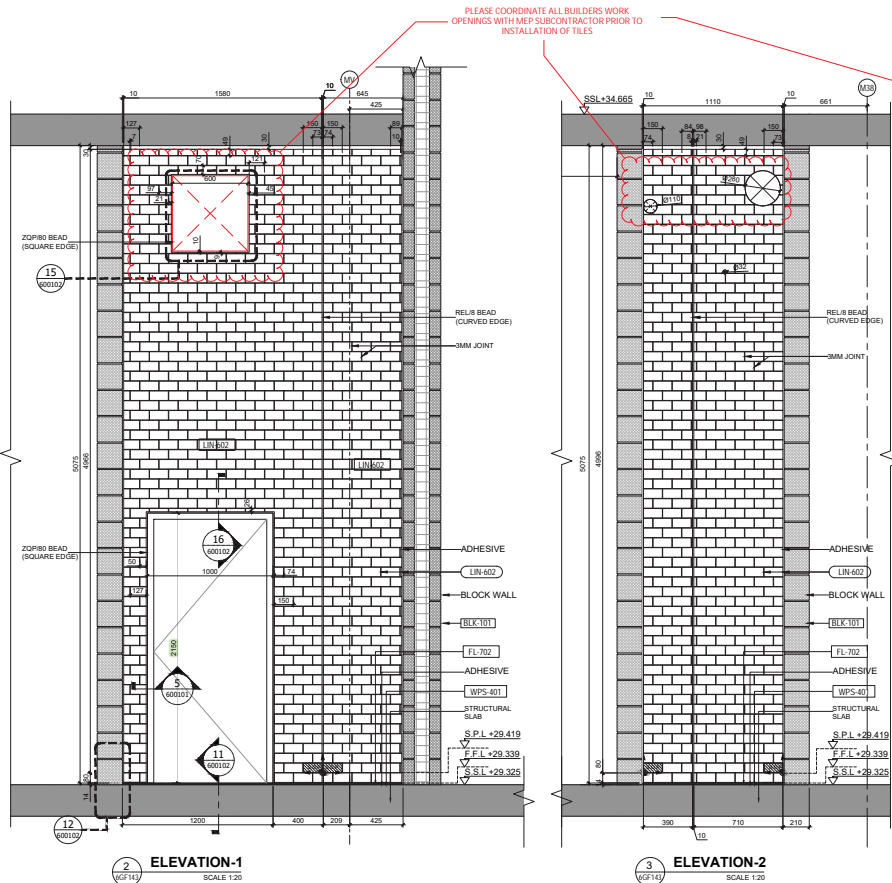
THEMATIC DISTRICTS MAIN CONTRACTOR-60020

Drawing Title:

SPECIAL RENTED PAVILLION BUILDING ORS GROUND FLOOR DRY WASTE STORE(GF-03) TILING FLOOR PLANS & ELEVATIONS

Approved	Drawn	Checked	Revision No.	Scale	Date
KE	N/A	R.K	SS	AS SHOWN	1
Design					
Model File Ref.					
Revision No.					

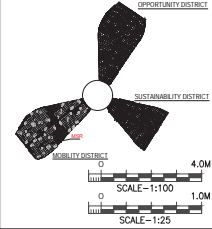
60020-SDW-S100000-AR-6GF142



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DO NOT SCALE THIS DRAWING.

KEY PLAN



GENERAL NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES
2. ALL LEVELS ARE IN METRES

ABBREVIATION:

- S.S.L. - STRUCTURAL SLAB LEVEL
- F.F.L. - FINISHED FLOOR LEVEL
- S.P.L. - STARTING POINT LEVEL



No.	Description
1	SAFETY, HEALTH AND ENVIRONMENT INFORMATION
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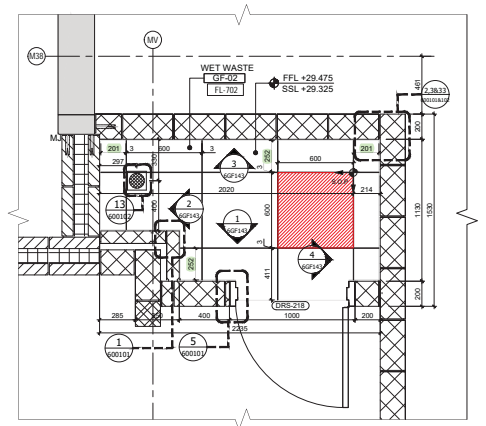
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REFERENCE:
IFC ARCHITECTURAL DRAWINGS:
10000-SDW-S100000-AR-600102
CADS SHOP DRAWINGS:
60020-SDW-S100000-AR-600102 REV. 5 (DATED 31.07.2017)
60020-SDW-S100000-AR-600102 REV. 1 (DATED 18.03.2018)
MATERIAL SUBMITTAL No:
60020-WAT-S100000-AR-000025 (2) - ADHESIVE
60020-WAT-S100000-AR-000026 (2) - GROUT
60020-WAT-S100000-AR-000027 (1) - FLOOR TILE
60020-WAT-S100000-AR-000028 (2) - WALL TILE
60020-WAT-S100000-AR-000029 (2) - WATER PROOFING
60020-WAT-S100000-AR-000030 (2) - POLYTHENE SHEET
60020-WAT-S100000-AR-000031 (2) - POLYTHENE SHEET
60020-WAT-S100000-AR-000032 (1) - PVC CORNER BEAD

NOTE:
1. FOR TILING TYPICAL DETAIL REFER THE DRAWING NO. 60020-SDW-S100000-AR-600102 AND 600102
2. MEP BUILDERS WORK TO BE COORDINATED AND CONFIRMED BY MEP CONTRACTOR

RFI REFERENCE:
AFC-RFI-02880: CONFIRMED ON SLOPE NEEDER TOILETS, WASTE ROOM, CLEANERS ROOM SLOPE TO BE PROVIDED IN ABUTMENT ROOM ONLY
AFC-RFI-02881: BASEMENT DRYER ROOMS & SERVICE/MATERIAL PAVILIONS WASTE (GARBAGE) ROOMS WALL TILE HEIGHT.
AFC-RFI-04183: CONFINEMENT OF TILING EDGE/ CORNER BEAD (DETAIL FOR TOILET, WASTE ROOM, CHUTE, JAIL DISTRICT)

CERTIFICATION
THE CONTRACTOR CERTIFIES THAT THIS DRAWING HAS BEEN COORDINATED, CHECKED FOR COMPLIANCE WITH THE CONTRACT
ENGINEER DOCUMENT REVIEW
Document reviewed for compliance with the design concept and to not checked for accuracy or suitability of purpose. This review does not release the contractor from his contractual obligations, nor does it authorize changes in the Contract Scope / Program.
REVIEWED BY DISCIPLINE STATUS SIGNATURE DATE
Architectural (P/A) B A/A 12/09/18
Structural (In-construct)
Electrical (Phase Lead)
Mechanical (Phase Lead)
Plumbing (Phase Lead)
Others
SUBMITTAL / TRANSMITTAL REV.
ENGINEER (Hopkins Architects) DATE: 12/09/18
Signed: [Signature]

BLDG	PATTERN	TAG	DESCRIPTION
01	[Pattern]	60020-WAT-S100000-AR-000025	60020-WAT-S100000-AR-000025 (2) - ADHESIVE
02	[Pattern]	60020-WAT-S100000-AR-000026	60020-WAT-S100000-AR-000026 (2) - GROUT
03	[Pattern]	60020-WAT-S100000-AR-000027	60020-WAT-S100000-AR-000027 (1) - FLOOR TILE
04	[Pattern]	60020-WAT-S100000-AR-000028	60020-WAT-S100000-AR-000028 (2) - WALL TILE
05	[Pattern]	60020-WAT-S100000-AR-000029	60020-WAT-S100000-AR-000029 (2) - WATER PROOFING
06	[Pattern]	60020-WAT-S100000-AR-000030	60020-WAT-S100000-AR-000030 (2) - POLYTHENE SHEET
07	[Pattern]	60020-WAT-S100000-AR-000031	60020-WAT-S100000-AR-000031 (2) - POLYTHENE SHEET
08	[Pattern]	60020-WAT-S100000-AR-000032	60020-WAT-S100000-AR-000032 (1) - PVC CORNER BEAD

TILE AND SCREED LEGEND:
SUBMITTAL / TRANSMITTAL REV.
ENGINEER (Hopkins Architects) DATE: 12/09/18
Signed: [Signature]

PROGRAMME/PROJECT MANAGEMENT CONSULTANT
ch2m hince

DESIGN CONSULTANT
Hopkins Architects

MAIN CONTRACTOR
الطريق كانبين
carillion

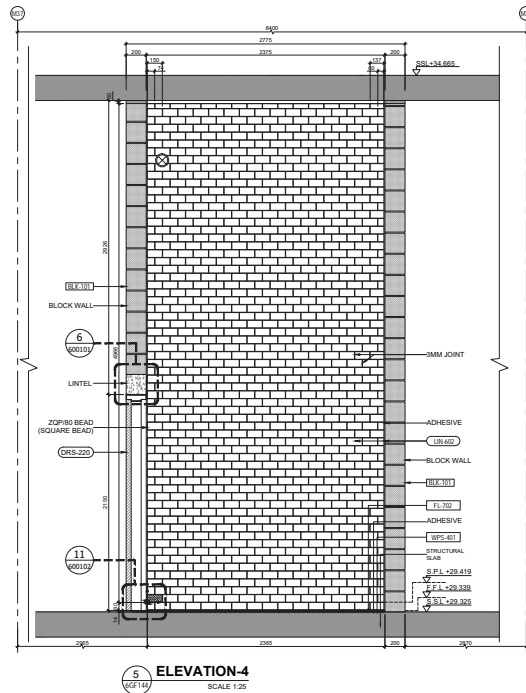
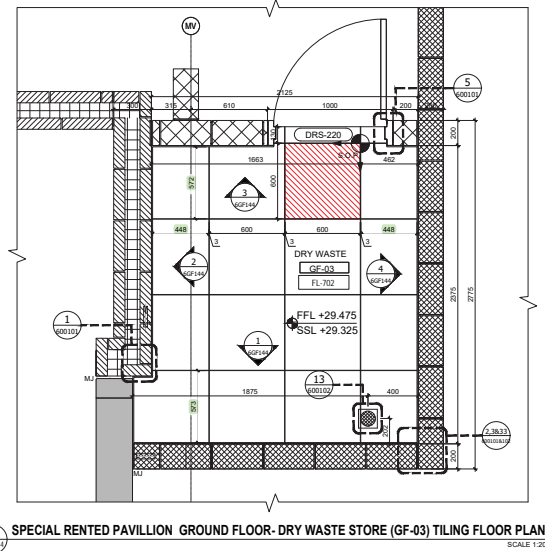
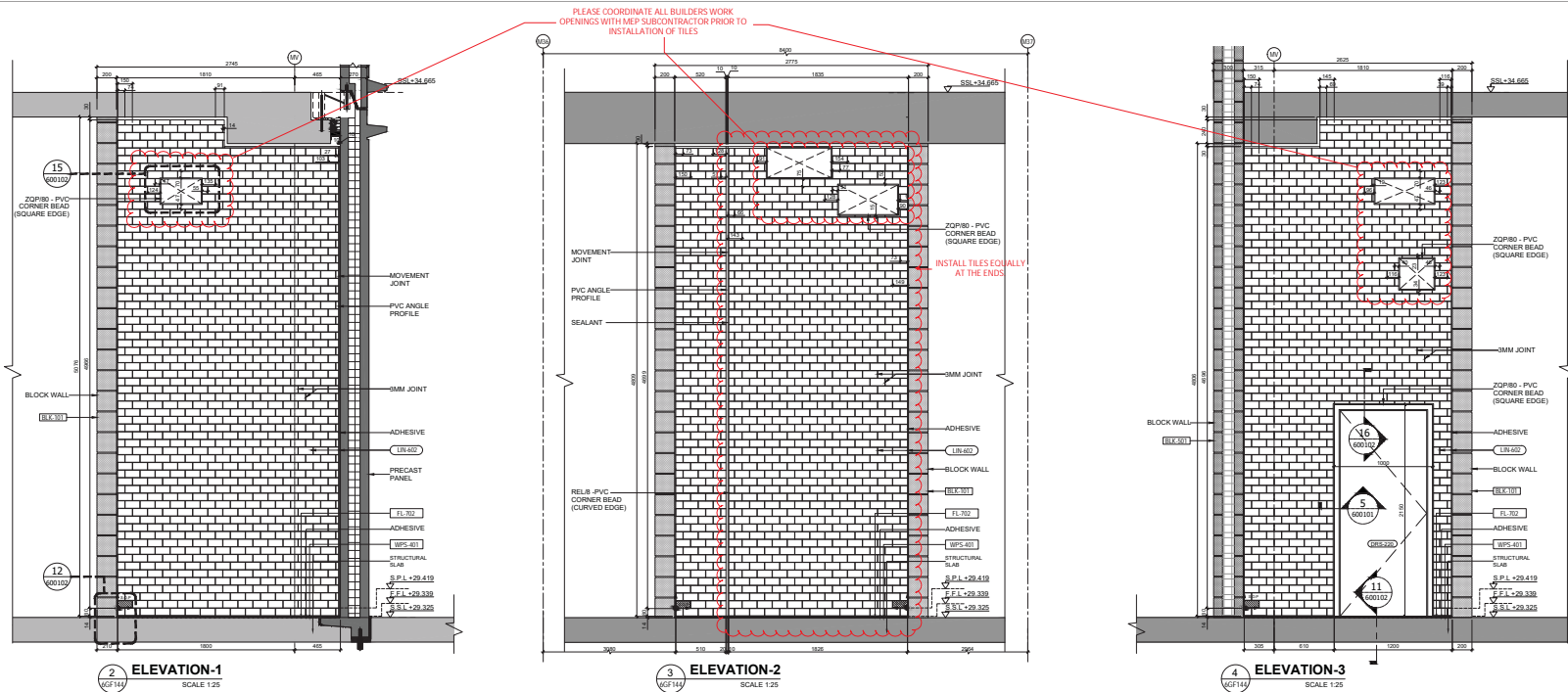
SUB-CONTRACTOR
omnix

Project
THematic Districts Main Contractor-60020

Special Rented Pavillion
BUILDING MR - GROUND FLOOR
WET WASTE STORE (GF-02)
TILING FLOOR PLAN & ELEVATIONS

Approved	Seal Date
KE	27-08-2018
Designed	Drawn
N/A	HG
Model File Ref.	Revision No.
N/A	AS SHOWN
Revision No.	1

60020-SDW-S100000-AR-6GF143



NOTE:

- FOR TILING TYPICAL DETAIL REFER THE DRAWING NO. 60020-SDW-S100000-AR-600101 AND 600102
- MEP BUILDER'S WORK TO BE COORDINATED AND CONFIRMED BY MEP CONTRACTOR

RFI REFERENCE:

NO.	DESCRIPTION
1	CONFIRMED ON SLOPE INSIDE TOILETS, WASTE ROOM, CLEANERS ROOM, SLOPE TO BE PROVIDED IN ALLUCTION ROOM ONLY
2	BASEMENT CHUTE ROOMS & SERVICE MULTILATERAL PAVILIONS WASTE (WASTE ROOM) TILING
3	CONFIRMATION OF TILING EDGES/ CORNER BEAD DETAIL FOR TOILET, WASTE ROOM, CHUTE (ALL DISTRICT)

TILE AND SCAFFOLD LEGEND:

SLNO	PATTERN	TAG	DESCRIPTION
01	600x600mm CERAMIC FLOOR TILING (WASTE RM)	1	600x600mm CERAMIC FLOOR TILING (WASTE RM)
02	750x1500mm CERAMIC WALL TILING (WASTE ROOM)	2	750x1500mm CERAMIC WALL TILING (WASTE ROOM)

WET AREAS WATERPROOFING SYSTEM

NO.	DESCRIPTION
1	MASTER TILE FLEX 25 FLEXIBLE TILE ADHESIVE

REFERENCE:

IFC ARCHITECTURAL DRAWINGS:
10025-DWG-S10000-AR-20048 REV. E (DATED 24/10/2017)

CADS SHOP DRAWINGS:
60020-SDW-S10000-ST-20012 REV. 5 (DATED 11/07/2017)

AFC BLOCKWORK SHOP DRAWINGS:
10025-SDW-S10000-AR-20048 REV. 1 (DATED 18/03/2018)

MATERIAL SUBMITTAL NO:

NO.	DESCRIPTION
60020-WT-S10000-WF-000025 (2)	ADHESIVE
60020-WT-S10000-WF-000026 (2)	GROUT
60020-WT-S10000-WF-000027 (1)	FLOOR TILE
60020-WT-S10000-WF-000028 (2)	WALL TILE
60020-WT-S10000-WF-000029 (2)	WATER PROOFING
60020-WT-S10000-WF-000030 (2)	POLYTHENE SHEET
60020-WT-S10000-WF-000031 (2)	POLYTHENE SHEET
60020-WT-S10000-WF-000032 (1)	PVC CORNER BEAD

CERTIFICATION

THE CONTRACTOR CERTIFIES THAT THIS DRAWING HAS BEEN COORDINATED, CHECKED FOR COMPLIANCE WITH THE CONTRACT.

ENGINEER DOCUMENT REVIEW

Document intended for compliance with the design concept and is not intended for use as a basis for construction. This review does not release the Contractor from their contractual obligations, nor does it authorize changes in the Contract Sum / Period.

REVIEWED BY	DESIGNER	STATUS	SIGNATURE	DATE
Architectural (PA)	B	APPROVED	ALZA	12/09/18

REVISIONS

NO.	DESCRIPTION	DATE	BY	CHK	APP
1	FIRST ISSUE	27/08/2018	HC	SS	KE

CLIENT:

EXPO 2020

PROGRAMME/PROJECT MANAGEMENT CONSULTANT:

ch2m hince

DESIGN CONSULTANT:

Hopkins Architects

MEP CONTRACTOR:

الطريق للطاقة
carillion

SUB-CONTRACTOR:

omniix

Project:

THEMATIC DISTRICTS MAIN CONTRACTOR-60020

Drawing Title:

SPECIAL RENTED PAVILLION BUILDING MSR - GROUND FLOOR DRY WASTE STORE (GF-03) TILING FLOOR PLAN & ELEVATIONS

Approved:

Signature	Designation	Date
KE	Project Manager	27-08-2018
N/A	Design	SS
N/A	Check	SS
N/A	Model File Ref.	SS
N/A	Scale A1 (1:100)	1

Revision No:

60020-SDW-S10000-AR-6GF144

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DO NOT SCALE THIS DRAWING.

KEY PLAN

GENERAL NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES
- ALL LEVELS ARE IN METRES

ABBREVIATION:

S.S.L - STRUCTURAL SLAB LEVEL
F.F.L - FINISHED FLOOR LEVEL
S.P.L - STARTING POINT LEVEL

START TILE

START POINT

SCALE:

SCALE-1:100
SCALE-1:25

REVISIONS

No.	Description	Date	By	CHK	APP
1	FIRST ISSUE	27/08/2018	HC	SS	KE

CLIENT:

EXPO 2020

PROGRAMME/PROJECT MANAGEMENT CONSULTANT:

ch2m hince

DESIGN CONSULTANT:

Hopkins Architects

MEP CONTRACTOR:

الطريق للطاقة
carillion

SUB-CONTRACTOR:

omniix

Project:

THEMATIC DISTRICTS MAIN CONTRACTOR-60020

Drawing Title:

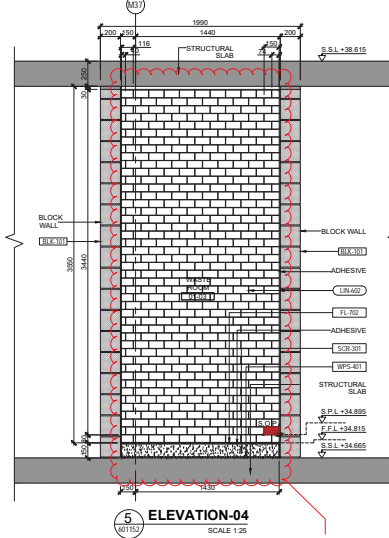
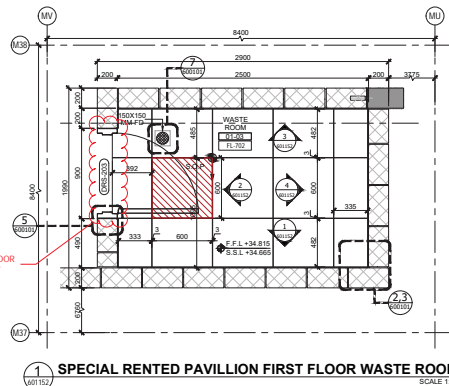
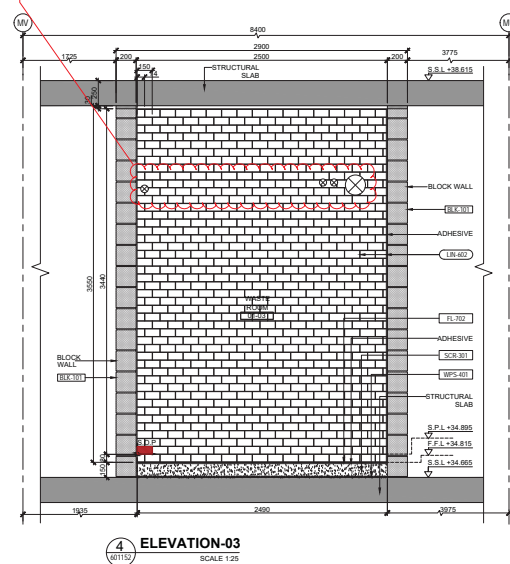
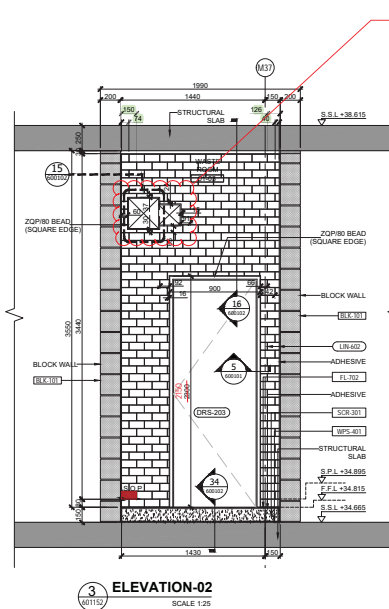
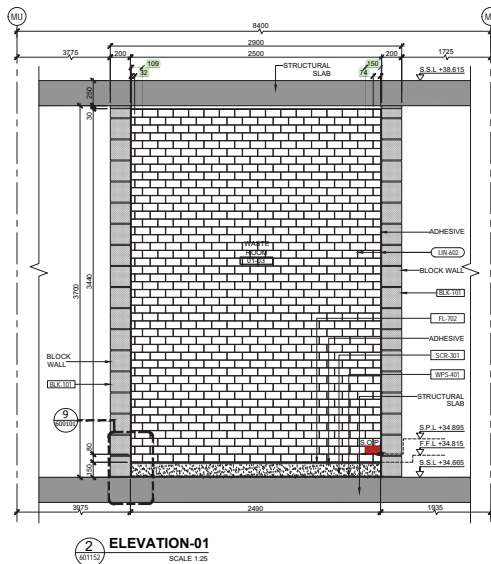
SPECIAL RENTED PAVILLION BUILDING MSR - GROUND FLOOR DRY WASTE STORE (GF-03) TILING FLOOR PLAN & ELEVATIONS

Approved:

Signature	Designation	Date
KE	Project Manager	27-08-2018
N/A	Design	SS
N/A	Check	SS
N/A	Model File Ref.	SS
N/A	Scale A1 (1:100)	1

Revision No:

60020-SDW-S10000-AR-6GF144



NOTE:-
1. FOR TILING TYPICAL DETAIL REFER THE DRAWING NO. 60020-SDW-S100000-AR-600101 AND 600102
2. MEP BUILDERS WORK TO BE COORDINATED AND CONFIRMED BY MEP CONTRACTOR

RFI REFERENCE:-
AFC-RF1-003562 - CONFIRMED ON SLOPE INSIDE TOILETS, WASTE ROOM, CLEANER'S ROOM, SLOPE TO BE PROVIDED IN ALUTION ROOM ONLY
AFC-RF1-003811 - BASEMENT CHUTE ROOMS & SERVICE/MULTI-LATERAL WASTE (GARBAGE) ROOMS WALL TILE HEIGHT.
AFC-RF1-004153 - CONFIRMATION OF TILING EDGE / CORNER BEAD DETAIL FOR TOILET, WASTE ROOM, CHUTE (ALL DISTRICT)

REVIEWED BY	DISCIPLINE	STATUS	SIGNATURE	DATE
Architectural (PA)	B	ALZ	12/09/18	
Structural (Structural)				
Electrical (Electrical)				
Mechanical (Mechanical)				
Plumbing (Plumbing)				
Other				
SUBMITTAL / TRANSMITTAL NO.	REV.	DATE	12/09/18	
ENGINEER (Hopkins Architects)				

IFC ARCHITECTURAL DRAWINGS:-
10026-DWG-S100000-AR-700044 REV.A (DATED 27/07/2017)
AFC BLOCKWORK SHOP DRAWINGS:-
60020-SDW-S105455-AR-01001 REV.1 (DATED 25/03/2018)
CADS SHOP DRAWINGS:-
60020-SDW-S105400-ST-200208 REV.A (DATED 29/11/2017)
60020-SDW-S105455-ST-201016 REV.1 (DATED 21/12/2017)

MATERIAL SUBMITTAL NO:
60020-WMT-S100000-AR-000025 (2) - ADHESIVE
60020-WMT-S100000-AR-000026 (2) - GROUT
60020-WMT-S100000-AR-000027 (1) - FLOOR TILE
60020-WMT-S100000-AR-000028 (2) - WALL TILE
60020-WMT-S100000-WF-000005 (2) - WATER PROOFING
60020-WMT-S100000-ST-000006 (2) - POLYTHENE SHEET
60020-WMT-S100000-ST-000006 (2) - POLYTHENE SHEET
60020-WMT-S100000-ST-000006 (2) - POLYTHENE SHEET
60020-WMT-S100000-AR-000066 (1) - PVC CORNER BEAD

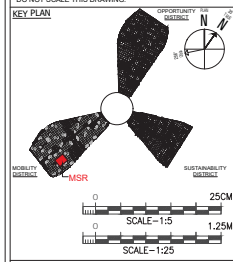
CERTIFICATION
THE CONTRACTOR CERTIFIES THAT THIS DRAWING HAS BEEN COORDINATED, CHECKED FOR COMPLIANCE WITH THE CONTRACT.

ENGINEER DOCUMENT REVIEW
Document reviewed for compliance with the design concept and is not checked for accuracy or suitability of purpose. This review does not release the contractor from the contractual obligations, nor does it authorize changes in the Contract Sum / Point.

☐ A. APPROVED
☐ B. APPROVED WITH COMMENTS
☐ C. REJECTED

REVIEWED BY	DISCIPLINE	STATUS	SIGNATURE	DATE
Architectural (PA)	B	ALZ	12/09/18	
Structural (Structural)				
Electrical (Electrical)				
Mechanical (Mechanical)				
Plumbing (Plumbing)				
Other				
SUBMITTAL / TRANSMITTAL NO.	REV.	DATE	12/09/18	
ENGINEER (Hopkins Architects)				

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DO NOT SCALE THIS DRAWING.



GENERAL NOTES
1. ALL DIMENSIONS ARE IN MILLIMETRES
2. ALL LEVELS ARE IN METRES
ABBREVIATION
S.S.L. - STRUCTURAL SLAB LEVEL
F.F.L. - STRUCTURAL SLAB LEVEL
S.P.L. - STARTING POINT LEVEL

LEGENDS
- START TILE
- START POINT

No. Description
SAFETY, HEALTH AND ENVIRONMENT INFORMATION
Brief details on the identified hazard symbol referencing the unusual residual hazards / risks are listed above.

No.	Explanatory Note	Date	Drawn	SS	KE
1	FIRST ISSUE	29-08-2018	R.K	SS	KE



PROGRAMME/PROJECT MANAGEMENT CONSULTANT:
ch2m hillmace
SUSTAINABLE COMMUNITIES AND PLACES
SUSTAINABLE COMMUNITIES AND PLACES

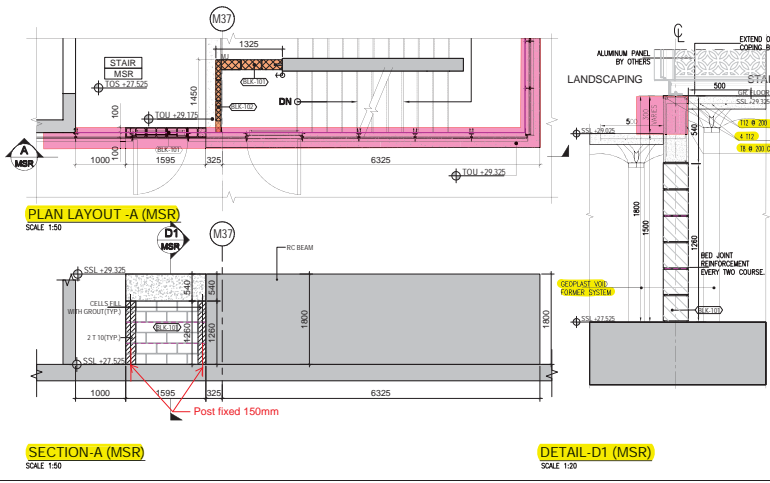
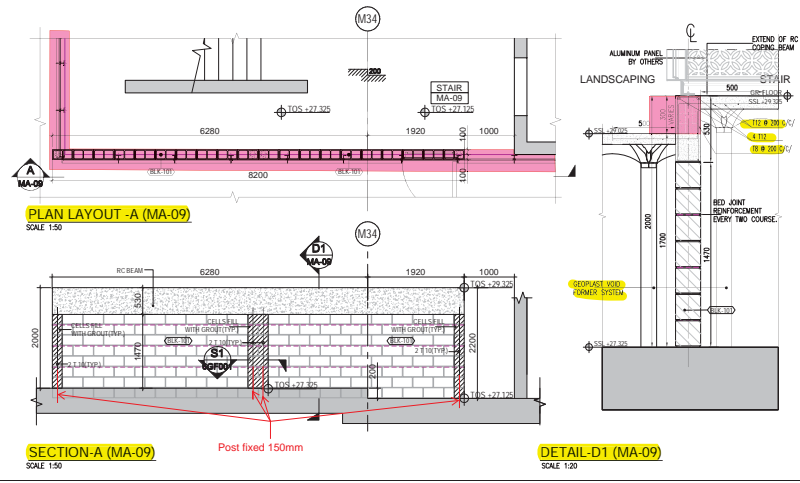
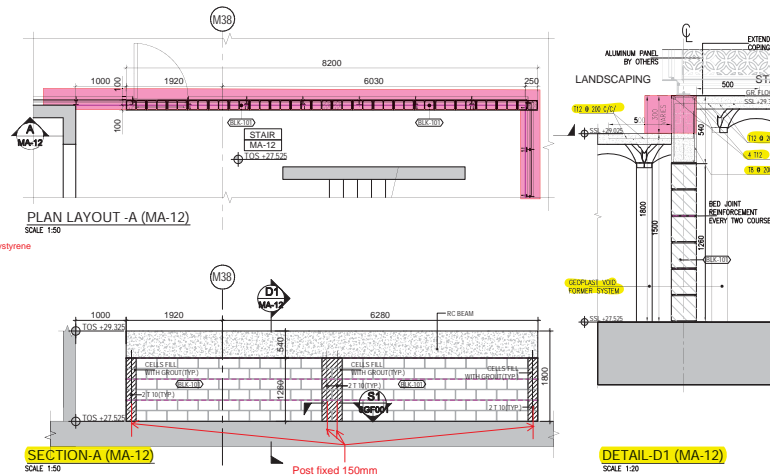
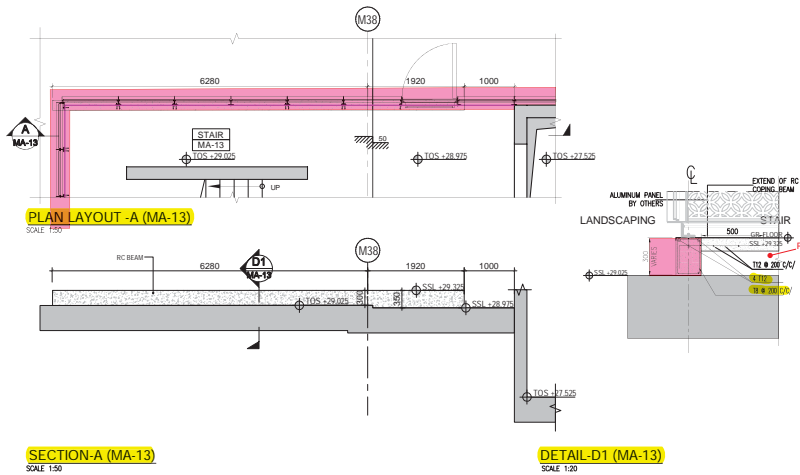
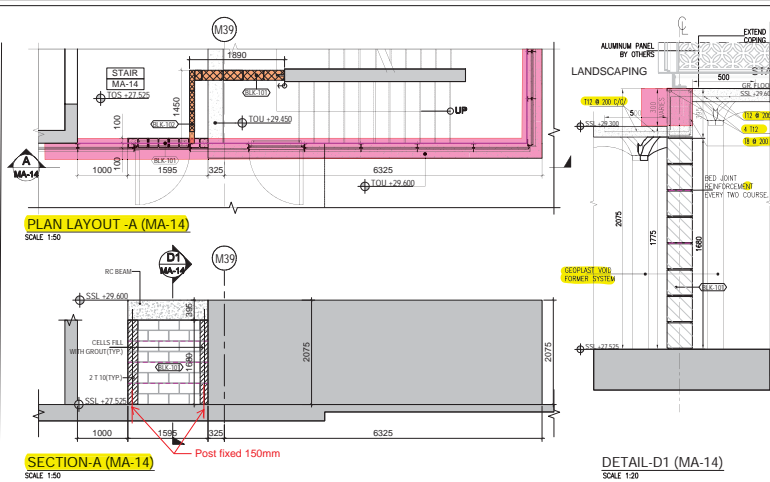
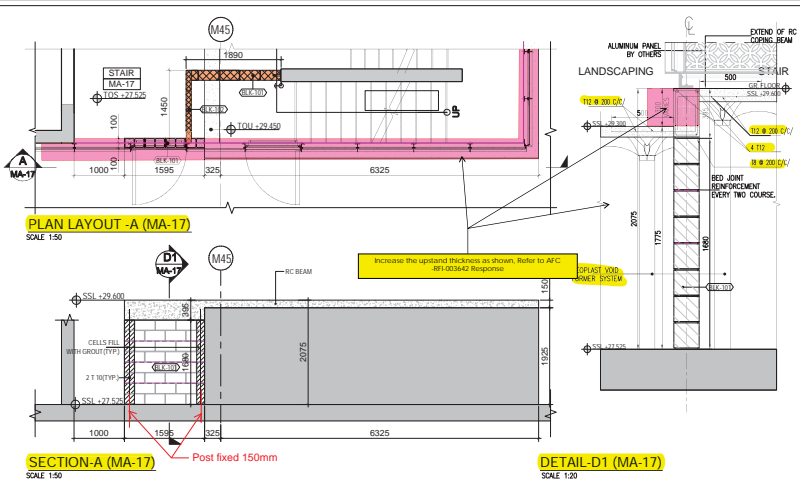
DESIGN CONSULTANT:
Hopkins Architects

MAIN CONTRACTOR:
الطريق - الطريق
Al-Farabi
2018/01/01 - 2018/01/01
2018/01/01 - 2018/01/01
2018/01/01 - 2018/01/01

SUB-CONTRACTOR:
omnix
Email: coo@omnix.ae
Al Fajer Bldg No. 2
Old Media Street, PO Box: 50909,
Dubai, United Arab Emirates

Project
THEMATIC DISTRICTS MAIN CONTRACTOR-60020
Special Rented Pavillion Building MSR First Floor Waste Room (01-03) TILING FLOOR PLANS & ELEVATIONS

Approved	Drawn	Checked	Revision No.	Date
KE	N/A	R.K	SS	28-08-2018
Designed	N/A	AS SHOWN	1	
Model File Ref	AS SHOWN			
Revision No.				
60020-SDW-S100000-AR-601152				



IFC ARCHITECTURAL DRAWINGS:-

10026-DWG-S105040-AR-20F002 REV. 8 (DATED 19/11/2017)
10026-DWG-S100000-AR-200009 REV. F (DATED 19/12/2018)
10026-DWG-S100000-AR-200048 REV. E (DATED 19/11/2017)

ALBA TOWER SHOP DRAWINGS:-

60020-SDW-S105600-AR-200603 REV. 2 (DATED 20/05/2018)
60020-SDW-S105600-AR-200605 REV. 2 (DATED 20/05/2018)
60020-SDW-S105600-AR-200606 REV. 2 (DATED 20/05/2018)
60020-SDW-S105600-AR-200602 REV. 2 (DATED 20/05/2018)
60020-SDW-S105600-AR-200626 REV. 2 (DATED 20/05/2018)

CADS SHOP DRAWINGS:-

60020-SDW-S105600-ST-20F004 REV. 5 (DATED 07/05/2018)
60020-SDW-S105600-ST-20F010 REV. 4 (DATED 14/02/2018)
60020-SDW-S105600-ST-20F011 REV. 3 (DATED 14/02/2018)
60020-SDW-S105600-ST-20F013 REV. 3 (DATED 14/02/2018)
60020-SDW-S105600-ST-20F019 REV. C (DATED 07/05/2018)
60020-SDW-S105600-ST-20F004 REV. 5 (DATED 14/02/2018)
60020-SDW-S105600-ST-20F010 REV. 3 (DATED 14/02/2018)
60020-SDW-S105600-ST-20F011 REV. 3 (DATED 14/02/2018)

CERTIFICATION

THE CONTRACTOR CERTIFIES THAT THIS DRAWING HAS BEEN COORDINATED, CHECKED FOR COMPLIANCE WITH THE CONTRACT.

ENGINEER DOCUMENT REVIEW

Document checked for compliance with the design contract and not checked for accuracy or suitability of purposes. This review does not release the contractor from his contractual obligations, nor does it authorize changes in the Contract Sum / Period.

☐ A APPROVED
☐ B APPROVED WITH COMMENTS
☐ C REJECTED

REVIEWED BY DISCIPLINE	STATUS	SIGNATURE	DATE
Architectural (PA)	B	AZA	25/07/2018
Structural Engineering (Structural)			
Structural Engineering (Structural)	B	Ramy Saleh	12/07/2018
Electrical (Phase Lead)			
Mechanical (Phase Lead)			
Planning (Phase Lead)			
Other			

REVIEWED BY DISCIPLINE: REV. 12/07/2018
ENGINEER / Project Architect: REV. 25/07/2018
Signed: DATE: 25/07/2018

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DO NOT SCALE THIS DRAWING.

KEY PLAN

MA14
MA17
MA13
MSR
MA12
MA09
MOBILITY DISTRICT

SCALE: 1:100
SCALE: 1:25

GENERAL NOTES:-

1. ALL DIMENSIONS ARE IN MILLIMETRES
2. ALL LEVELS ARE IN METRES

ABBREVIATION:-

S.S.L - STRUCTURAL SLAB LEVEL
THK - THICKNESS
TYP - TYPICAL
T.O.C - TOP OF CONCRETE
R.O.P - REINFORCED CONCRETE POST
M.J - MOVEMENT JOINT
B.O.O - BOTTOM OF OPENING
E.J - EXPANSION JOINT

LEGEND:-

STRUCTURAL WALL / COLUMN
BLK-101 (100MM THICK, TYPE: HOLLOW, FAN-FACED BLOCK WORK)
BLK-102 (100MM THICK, TYPE: HOLLOW, FAN-FACED BLOCK WORK)
BLK-103 (100MM THICK, TYPE: SOLID)
BLK-104 (100MM THICK, TYPE: SOLID)
BLK-105 (100MM THICK, TYPE: SOLID)
BLK-106 (100MM THICK, TYPE: SOLID)
BLK-107 (100MM THICK, TYPE: SOLID)
BLK-108 (100MM THICK, TYPE: SOLID)
BLK-109 (100MM THICK, TYPE: SOLID)
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BLK-118 (100MM THICK, TYPE: SOLID)
BLK-119 (100MM THICK, TYPE: SOLID)
BLK-120 (100MM THICK, TYPE: SOLID)

SAFETY, HEALTH AND ENVIRONMENT INFORMATION

Brief details on the identified hazard symbol referencing the structural residual hazards / risks are listed below.

REVISIONS

No	Description	Date	Drawn	Check	Rev
1	FIRST ISSUE	12/07/2018	RAJ	CS	01

CLIENT:

PROGRAMME/PROJECT MANAGEMENT CONSULTANT:

ch2m hill

DESIGN CONSULTANT:

Hopkins Architects

CONSULTANT:

e.construct

MAIN CONTRACTOR:

الفيصلية كانبين

الفاتم

carillion

SUB-CONTRACTOR:

omnix

PROJECT:

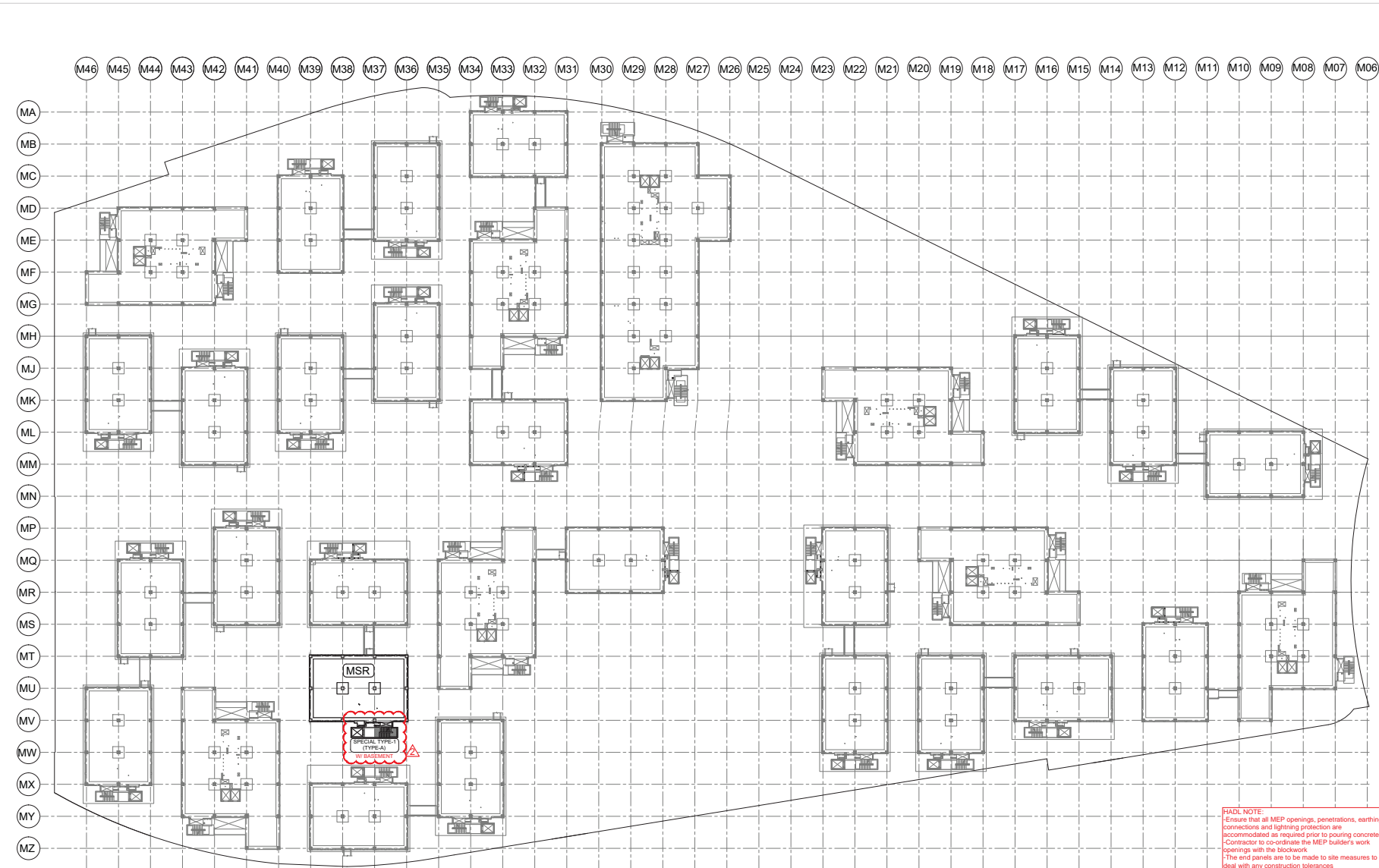
THEMATIC DISTRICTS MAIN CONTRACTOR-00020

Building Title:

MOBILITY DISTRICT BUILDING MA09, MA12, MA13, MA14, MAYTAMER GR. FLOOR STAIRCASE UP STAND BLOCK WORK LAYOUT PLAN

Approved	KE	Scale	12.07.2018
Designed	N/A	CS	CS
Model File No.	N/A	Scale	AS SHOWN
Revision No.	1	Revision	1

60020-SDW-S105600-AR-6GF004



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DO NOT SCALE THIS DRAWING.

KEY PLAN

METREY (METER)

SCALE-1:500

SCALE-1:25

General Notes:
1) ALL DIMENSIONS ARE IN MILLIMETER
2) ALL LEVELS ARE IN METER

No.	Description	Revised As Per Consultants Comment	19/03/2018	AL	RF1	HJ
2	REVISED AS PER CONSULTANTS COMMENT	19/03/2018	AL	RF1	HJ	
1	FIRST ISSUE	31/03/2018	AL	RF1	HJ	

CLIENT:

PROGRAM/PROJECT MANAGEMENT CONSULTANT:

ch2m hince

DESIGN CONSULTANT:

Hopkins Architects

MAIN CONTRACTOR:

الطريق حائل

carillion

SUB-CONTRACTOR:

ALBA POWER ALUMINIUM FACTORY LTD.

THE CONTRACTOR CERTIFIES THAT THIS DRAWING HAS BEEN COORDINATED, CHECKED FOR COMPLIANCE WITH THE CONTRACT.

CERTIFICATION

Document presented for compliance with the design contract and is not intended for use as a basis for liability or payment. This document may not be used for any other purpose without the prior written consent of the Contractor from the Project Manager.

☒ A. APPROVED
☐ B. APPROVED WITH COMMENTS
☐ C. REJECTED

REVIEWED BY DISCIPLINE	STATUS	SIGNATURE	DATE
Architectural	A	AZA	04/05/2018
Structural			
Electrical			
Mechanical			
Planning			
Other			

SUBMITTAL / TRANSMITTAL NO. _____ REV. _____

ENGINEER _____

DATE: 04/05/2018

APPROVED	DATE
HJ	31/03/2018

DESIGNED	DRAWN	CHECKED
N/A	AL	RF1

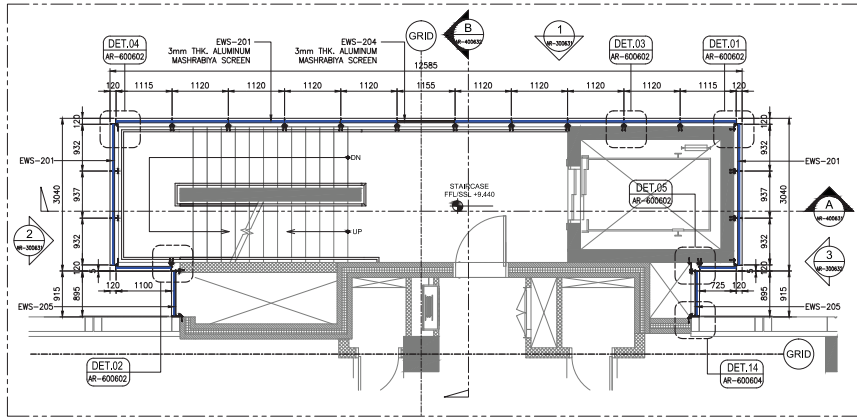
Model File Ref.	Scale	Revision No.
N/A	Scale A1 (90x60)	AS SHOWN

Revision No.	2
60020-SDW-S105600-AR-200625	

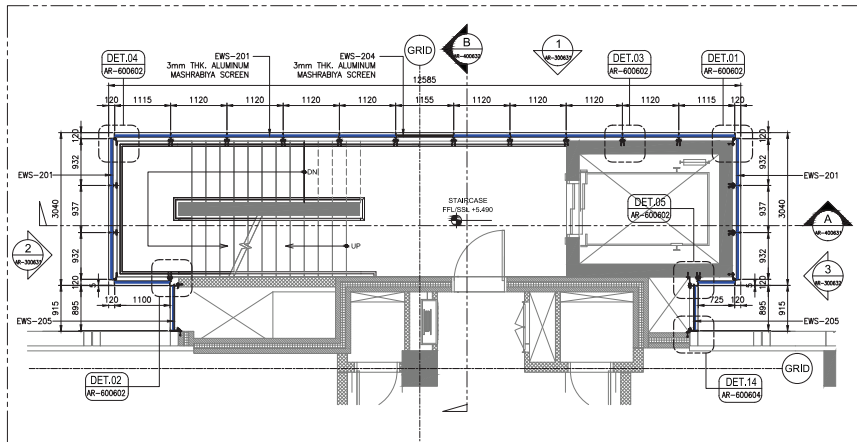
MOBILITY DISTRICT SPECIAL PAVILION STAIRCASE MASHRABIYA KEYPLAN
SCALE 1:500

MOBILITY DISTRICT - STAIRCASE GENERAL ARRANGEMENT DRAWING REFERENCE				
BUILDING TYPE	STAIR TYPE	BUILDING NAME	WBS CODE	GROUND TO ROOF
SPECIAL TYPE-1	TYPE-A	MSR	5655	400001 & 400002

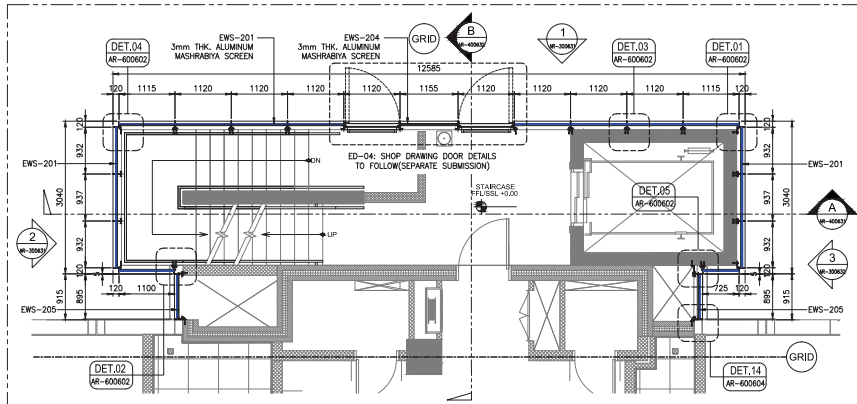
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10026-DWG-S105600-AR-200001 Rev. A	60020-SDW-S105600-ST-200004 Rev. 2



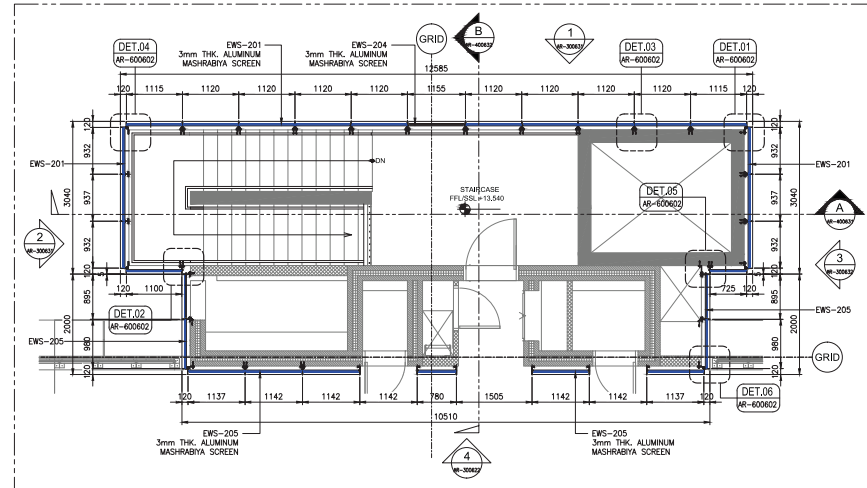
03 MASHRABIYA LAYOUT - SECOND FLOOR PLAN
Scale: 1:50mts



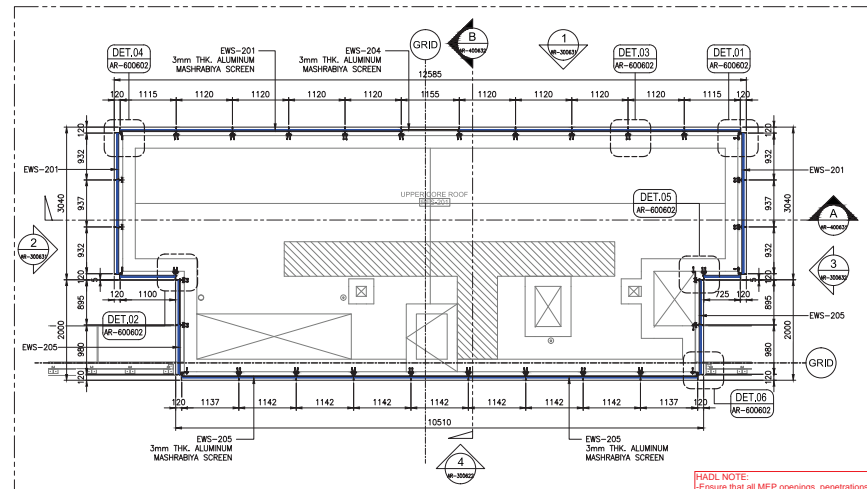
02 MASHRABIYA LAYOUT - FIRST FLOOR PLAN
Scale: 1:50mts



01 MASHRABIYA LAYOUT - GROUND FLOOR PLAN
Scale: 1:50mts



04 MASHRABIYA LAYOUT - ROOF LEVEL PLAN
Scale: 1:50mts



05 MASHRABIYA LAYOUT - UPPER ROOF LEVEL PLAN
Scale: 1:50mts

CONTRACT DRAWING REFERENCE:	
10026-DWG-S-100000-AR-200096 Rev.C	
10026-DWG-S-100000-AR-2R0502 Rev.A	
10026-DWG-S-100000-AR-200001 Rev.A	
10026-DWG-S-105041-AR-300007 Rev.B	
10026-DWG-S-100000-AR-400050 Rev.C	
10026-DWG-S-100000-AR-400015 Rev.C	
10026-DWG-S-100000-AR-400159 Rev.B	
10026-DWG-S-100000-AR-600160 Rev.B	
10026-DWG-S-100000-AR-600254 Rev.A	
10026-DWG-S-100000-AR-600255 Rev.A	
LANDSCAPE REFERENCE:	
10026-DWG-S-100000-LA-500004 Rev.A	
PRECAST DRAWING REFERENCE:	
60020-DWG-S-105040-AR-200002 Rev.C	
CADS DRAWING REFERENCE:	
60020-SDW-S-105655-ST-400001 Rev.2	
60020-SDW-S-105655-ST-400002 Rev.2	
60020-SDW-S-100000-ST-2R0303 Rev.2	
60020-SDW-S-105655-ST-2R0301 Rev.4	
RFI REFERENCE:	
AFC-RTRF1-001987	

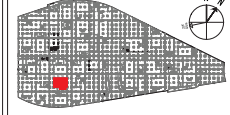
FIELD NOTE:
-Ensure that all MEP openings, penetrations, earthing connections and lightning protection are accommodated as required prior to pouring concrete.
-Contractor to co-ordinate the MEP builder's work openings with the blockwork.
-The end panels are to be made to site measures to deal with any construction tolerances.
-Please reissue revised calculations and update shop drawings to reflect final anchor design.

CERTIFICATION	
THE CONTRACTOR CERTIFIES THAT THIS DRAWING HAS BEEN COORDINATED, CHECKED FOR COMPLIANCE WITH THE CONTRACT, ENGINEER DOCUMENT REVIEW	
Discussed/checked for compliance with the design concept and is not checked for accuracy or suitability of purpose. This review does not release the Contractor from its obligations, nor does it authorize changes in the Contract Sum / Period.	
<input checked="" type="checkbox"/> A. APPROVED	
<input type="checkbox"/> B. APPROVED WITH COMMENTS	
<input type="checkbox"/> C. REJECTED	
<input type="checkbox"/> D. RECEIVED FOR INFORMATION	
REVIEWED BY DISCIPLINE	
Architectural (PA)	STATUS: A, SIGNATURE: ALA, DATE: 09/04/2018
Structural (S-Contract)	
Electrical (Phone Lead)	
Mechanical (Phone Lead)	
Plumbing (Phone Lead)	
SUBMITTAL / TRANSMITTAL	
NO	REV: 1, DATE: 09/04/2018
ENGINEER / PROJECT ARCHITECT	
Signed: [Signature], DATE: 09/04/2018	

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DO NOT SCALE THIS DRAWING.

KEY PLAN



METRIC (METER)

SCALE=1:50

SCALE=1:25

General Notes:
1) ALL DIMENSIONS ARE IN MILLIMETER
2) ALL LEVELS ARE IN METER

No. Description
SAFETY, HEALTH AND ENVIRONMENT INFORMATION
Brief details on the identified hazard and symbol referencing the universal residual hazards / risks are listed above.

REVISIONS

No.	Description	Date	By	Rev.
1	FRST ISSUE	31/03/2018	AL	HJ

CLIENT:



PROGRAMME/PROJECT MANAGEMENT CONSULTANT:

PROGRAMME MANAGEMENT CONSULTANT



DESIGN CONSULTANT:



MAIN CONTRACTOR:



SUB-CONTRACTOR:



PROJECT:

THEMATIC DISTRICTS MAIN CONTRACTOR-60020

Drawing Title:

MASHRABIYA PACKAGE:

MOBILITY DISTRICT

SPECIAL PAVILION STAIRCASE

MASHRABIYA FLOOR PLANS

(MSR)

Approved:

HJ

Design:

N/A

Model File Ref:

N/A

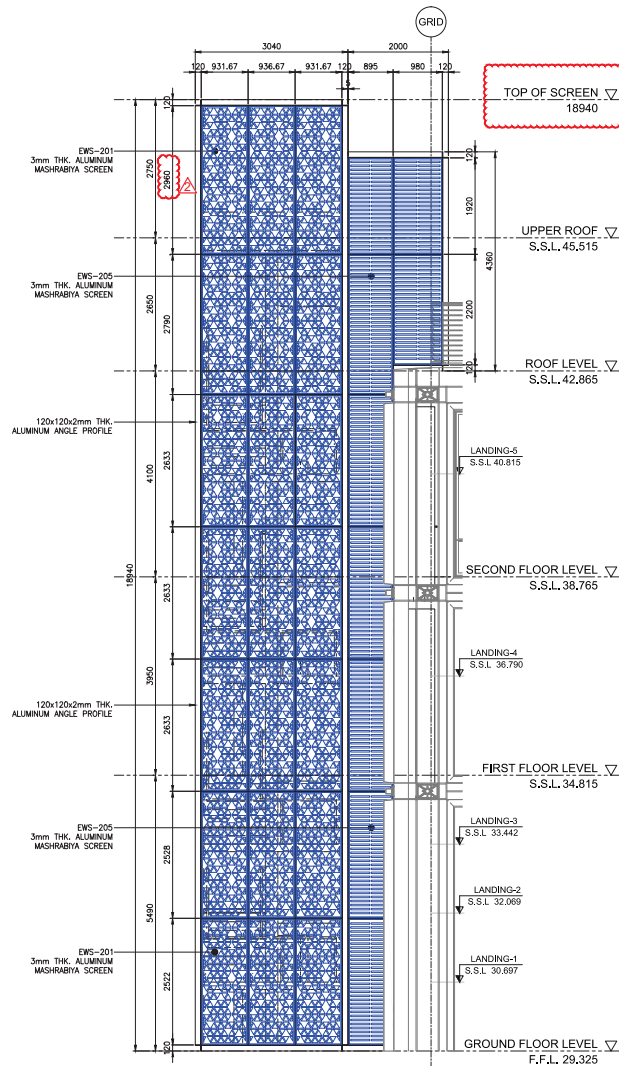
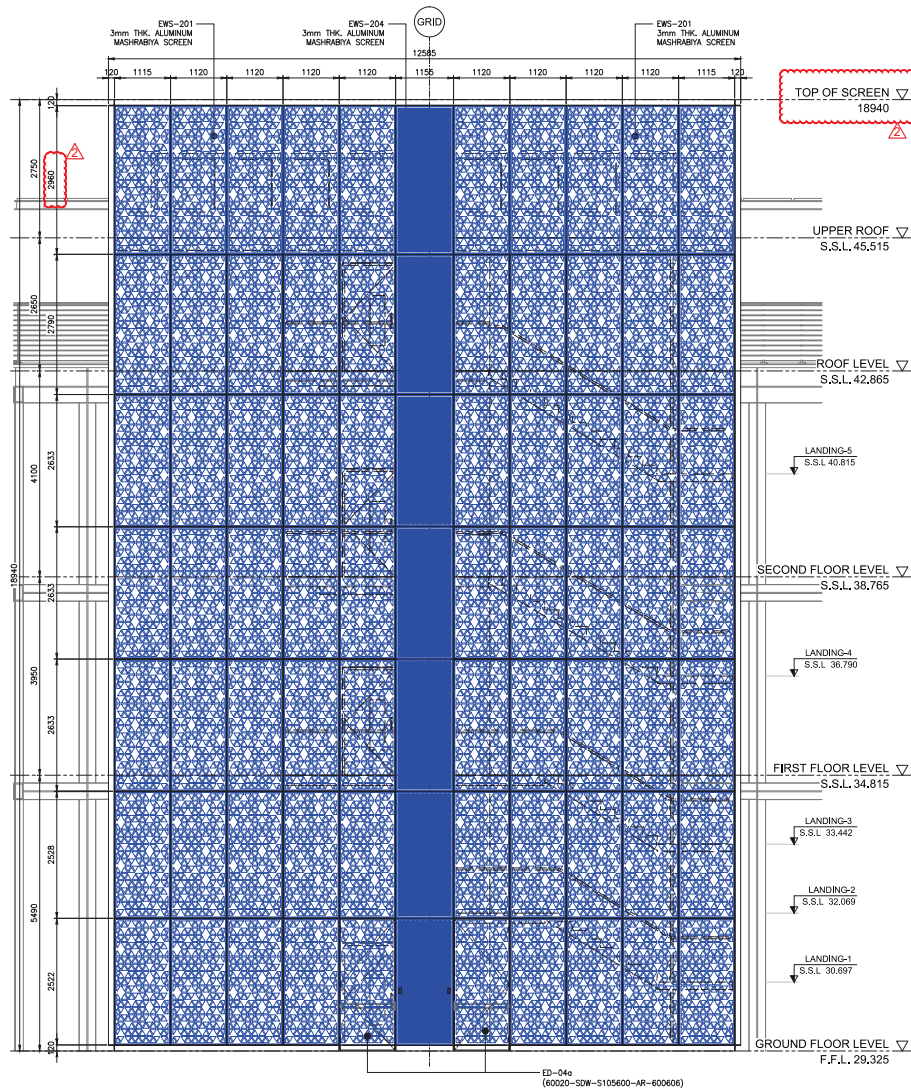
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AS SHOWN

Revision No:

1

60020-SDW-S105600-AR-200626



HADL NOTE:
 -Ensure that all MEP openings, penetrations, earthing connections and lightning protection are accommodated as required prior to pouring concrete.
 -Contractor to co-ordinate the MEP builder's work openings with the blockwork
 -The end panels are to be made to site measures to deal with any construction tolerances
 -Please reissue revised calculations and update shop drawings to reflect final anchor design.

THE CONTRACTOR CERTIFIES THAT THIS DRAWING HAS BEEN COORDINATED, CHECKED FOR COMPLIANCE WITH THE CONTRACT.

ENGINEER DOCUMENT REVIEW
 Document reviewed for compliance with the design contract and is not intended for use as a basis for construction. The engineer does not warrant the contractor from his contractual obligations, nor does it authorize changes to the Contract from this drawing.

REVIEWED BY DISCIPLINE	STATUS	SIGNATURE	DATE
Architectural	A	AZA	04/05/2018
Structure			
Electrical			
Mechanical			
Planning			
Other			

☒ A. APPROVED
☐ B. APPROVED WITH COMMENTS
☐ C. REJECTED

CONTRACT DRAWING REFERENCE:	
10028-DWG-S100000-AR-200005 Rev.C	
10028-DWG-S100000-AR-200006 Rev.A	
10028-DWG-S100000-AR-200001 Rev.A	
10028-DWG-S105040-AR-200002 Rev.C	
10028-DWG-S105041-AR-300007 Rev.B	
10028-DWG-S100000-AR-400050 Rev.C	
10028-DWG-S100000-AR-400015 Rev.C	
10028-DWG-S100000-AR-600159 Rev.B	
10028-DWG-S100000-AR-600160 Rev.B	
10028-DWG-S100000-AR-600254 Rev.A	
10028-DWG-S100000-AR-600255 Rev.A	

LANDSCAPE REFERENCE:	
10028-DWG-S100000-LA-500004 Rev.A	

PRECAST DRAWING REFERENCE:	
60020-DWG-S105040-AR-200002 Rev.C	

CADS DRAWING REFERENCE:	
60020-SDW-S105655-ST-400001 Rev.2	
60020-SDW-S105655-ST-400002 Rev.2	
60020-SDW-S100000-ST-2RF903 Rev.2	
60020-SDW-S105655-ST-2RF901 Rev.4	

APPROVED	DATE	REVISION	DATE
HJ	31/03/2018		
NA		AL	RFI
NA		AL	RFI
NA		AL	RFI

Scale: 1:50m

60020-SDW-S105655-ST-400001 Rev.2

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KEY PLAN

2.0M
1.0M
SCALE=1:50
SCALE=1:25

General Notes:
 1) ALL DIMENSIONS ARE IN MILLIMETER
 2) ALL LEVELS ARE IN METER

No.	Description	Date	By	Rev
2	REMOVED AS PER SITE INSTRUCTION	19/03/2018	AL	RFI
1	FIRST ISSUE	31/03/2018	AL	RFI

CLIENT: **EXPO 2020**

PROGRAMME/PROJECT MANAGEMENT CONSULTANT: **ch2m hill**

DESIGN CONSULTANT: **Hopkins Architects**

MAIN CONTRACTOR: **الطريق**

SUB-CONTRACTOR: **ALBA POWER ALUMINUM FACTORY LTD.**

Project: **THEMATIC DISTRICTS MAIN CONTRACTOR-60020**

Drawing Title: **MASHRABIYA PACKAGE: MOBILITY DISTRICT SPECIAL PAVILION STAIRCASE MASHRABIYA ELEVATION (MSR) SHEET 1-2**

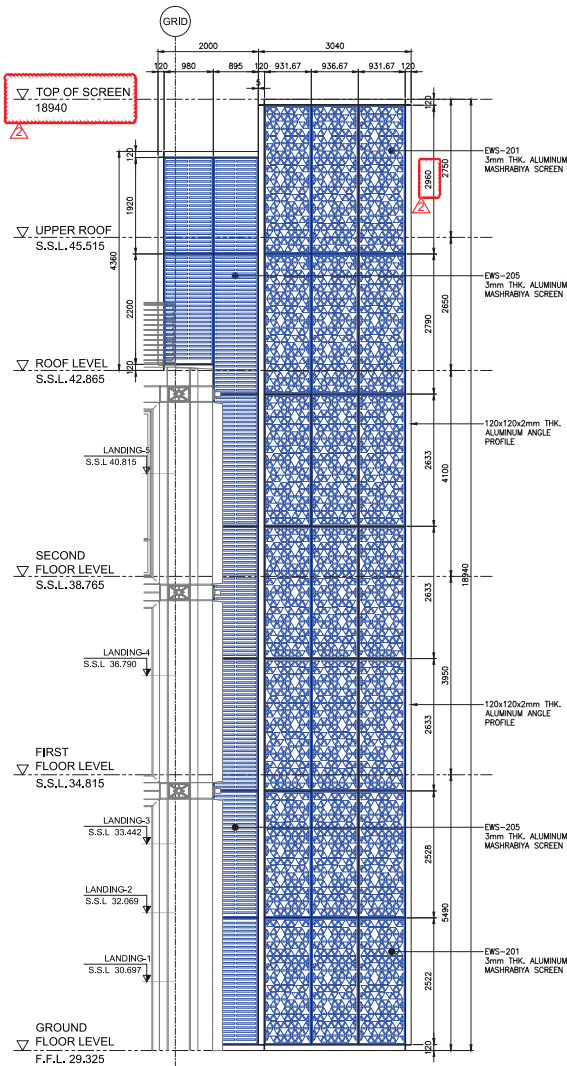
Approved: **HJ** Date: **31/03/2018**

Checked: **NA** Drawn: **AL** RFI

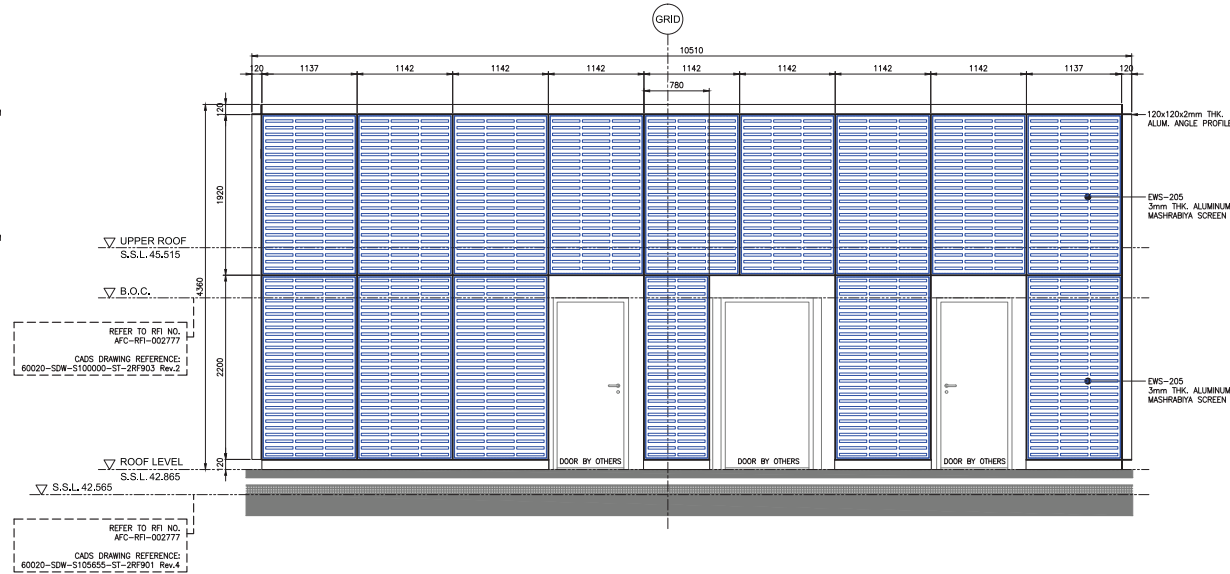
Model File Path: **Scale: 1:50m**

Revision No: **2**

60020-SDW-S105655-ST-400001 Rev.2



03 MASHRABIYA ELEVATION - 3
Scale : 1:50mts



04 MASHRABIYA ELEVATION - 4 (ROOF ELEVATION)
Scale : 1:50mts

CONTRACT DRAWING REFERENCE:
10028-DWG-S100000-AR-20005 Rev.C
10028-DWG-S100000-AR-2RF902 Rev.A
10028-DWG-S100000-AR-20001 Rev.A
10028-DWG-S105041-AR-30007 Rev.B
10028-DWG-S100000-AR-400050 Rev.C
10028-DWG-S100000-AR-400015 Rev.C
10028-DWG-S100000-AR-600159 Rev.B
10028-DWG-S100000-AR-600160 Rev.B
10028-DWG-S100000-AR-600254 Rev.A
10028-DWG-S100000-AR-600255 Rev.A

LANDSCAPE REFERENCE:
10028-DWG-S100000-LA-500004 Rev.A

PRECAST DRAWING REFERENCE:
60020-DWG-S105040-AR-200002 Rev.C

CADS DRAWING REFERENCE:
60020-SDW-S105655-ST-400001 Rev.2
60020-SDW-S100000-ST-2RF903 Rev.2
60020-SDW-S105655-ST-2RF901 Rev.4

HADL NOTE:
-Ensure that all MEP openings, penetrations, earthing connections and lightning protection are accommodated as required prior to pouring concrete.
-Contractor to co-ordinate the MEP builder's work openings with the blockwork
-The end panels are to be made to site measures to deal with any construction tolerances
-Please reissue revised calculations and update shop drawings to reflect first anchor design.

CERTIFICATION
THE CONTRACTOR CERTIFIES THAT THIS DRAWING HAS BEEN COORDINATED, CHECKED FOR COMPLIANCE WITH THE CONTRACT.

ENGINEER DOCUMENT REVIEW
Document reviewed for compliance with the design contract and is not intended for use in any other project. This review does not release the contractor from his contractual obligations, nor does it authorize changes to the Contract Scope of Work.

☒ A. APPROVED
☐ B. APPROVED WITH COMMENTS
☐ C. REJECTED

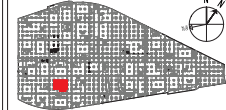
REVIEWED BY DISCIPLINE	STATUS	SIGNATURE	DATE
Architectural	A	AZA	04/06/2018
Structural			
Electrical			
Mechanical			
Plumbing			
Other			

SUBMITTAL / TRANSMITTAL
NO
ENGINEER
Signature: *[Signature]* DATE: 04/06/2018

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KEY PLAN



METRIC (METER)



General Notes:
1) ALL DIMENSIONS ARE IN MILLIMETER
2) ALL LEVELS ARE IN METER

No. Description
SAFETY, HEALTH AND ENVIRONMENT INFORMATION
Brief details on the identified hazard symbols/referencing the unusual residual hazards / risks are listed above.

REVISIONS				
No.	Description	Date	By	Appr.
2	REMOVED AS PER SITE INSTRUCTION	19/05/2018	AL	RFI
1	FIRST ISSUE	31/03/2018	AL	RFI

CLIENT:

PROGRAMME/PROJECT MANAGEMENT CONSULTANT:

DESIGN CONSULTANT:

MAIN CONTRACTOR:

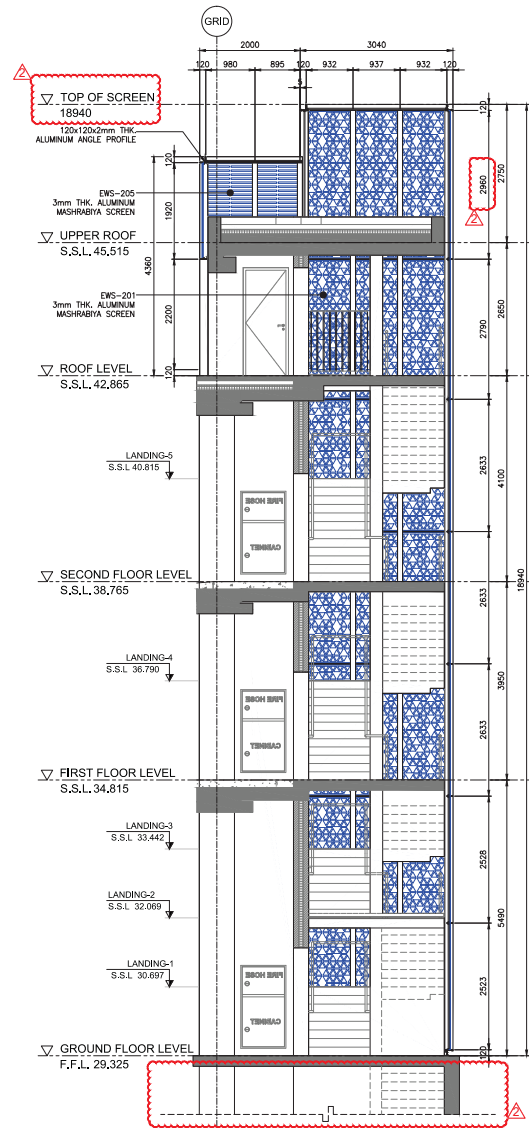
SUB-CONTRACTOR:

Project: **THEMATIC DISTRICTS MAIN CONTRACTOR-60020**

Drawing Title: **MASHRABIYA PACKAGE: MOBILITY DISTRICT SPECIAL PAVILION STAIRCASE MASHRABIYA ELEVATIONS (MSR) SHEET 2-2**

Approved	Drawn	Checked	Scale	Revision
HJ			AL	RFI
N/A			AS SHOWN	2

60020-SDW-S105600-AR-300632



02 **MASHRABIYA SECTION - B**
Scale : 1:50mm

CONTRACT DRAWING REFERENCE:
10028-DWG-S100000-AR-200005 Rev.C
10028-DWG-S100000-AR-2RF052 Rev.A
10028-DWG-S100000-AR-200001 Rev.A
10028-DWG-S105041-AR-300007 Rev.B
10028-DWG-S100000-AR-400050 Rev.C
10028-DWG-S100000-AR-400015 Rev.C
10028-DWG-S100000-AR-600159 Rev.B
10028-DWG-S100000-AR-600160 Rev.B
10028-DWG-S100000-AR-600254 Rev.A
10028-DWG-S100000-AR-600255 Rev.A

LANDSCAPE REFERENCE:
10028-DWG-S100000-LA-500004 Rev.A

PRECAST DRAWING REFERENCE:
60020-DWG-S105040-AR-200002 Rev.C

CADSW DRAWING REFERENCE:
60020-SDW-S105655-ST-400001 Rev.2
60020-SDW-S100000-ST-2RF003 Rev.2
60020-SDW-S105655-ST-2RF001 Rev.4

REVISIONS

No.	Description	Date	By	Appr.
2	REVISED AS PER SITE INSTRUCTION	19/05/2018	AL	RFI
1	FIRST ISSUE	31/03/2018	AL	RFI

CERTIFICATION

THE CONTRACTOR CERTIFIES THAT THIS DRAWING HAS BEEN COORDINATED, CHECKED FOR COMPLIANCE WITH THE CONTRACT.

ENGINEER DOCUMENT REVIEW

Document reviewed for compliance with the design contract and is not checked for accuracy or suitability of purpose. This review does not release the contractor from his contractual obligations, nor does it authorize changes to the Contract Scope of Work.

REVIEWED BY DISCIPLINE

DISCIPLINE	STATUS	SIGNATURE	DATE
Architectural	A	AZA	04/05/2018
Structural			
Electrical			
Mechanical			
Plumbing			
Other			

APPROVED

☒ A APPROVED
☐ B APPROVED WITH COMMENTS
☐ C REJECTED

SUBMITTAL / TRANSMITTAL

NO

ENGINEER

Signed: *[Signature]* DATE: 04/05/2018

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KEY PLAN

MEASUREMENT

0 1 2.0M
SCALE=1:50
0 1 1.0M
SCALE=1:25

General Notes:
1) ALL DIMENSIONS ARE IN MILLIMETER
2) ALL LEVELS ARE IN METER

REVISIONS

No.	Description	Date	By	Appr.
2	REVISED AS PER SITE INSTRUCTION	19/05/2018	AL	RFI
1	FIRST ISSUE	31/03/2018	AL	RFI

CLIENT:

PROGRAMME/PROJECT MANAGEMENT CONSULTANT:

ch2m hince

DESIGN CONSULTANT:

Hopkins Architects

MAIN CONTRACTOR:

الطريق

الطريق

carillion

SUB-CONTRACTOR:

ALBA YUBER ALUMINUM FACTORY LTD.

Project:

THEMATIC DISTRICTS MAIN CONTRACTOR-60020

Drawing Title:

MASHRABIYA PACKAGE: MOBILITY DISTRICT SPECIAL PAVILION STAIRCASE MASHRABIYA SECTIONS (MSR) SHEET 2-2

Approved:

HJ

Design:

N/A

Model File Ref:

N/A

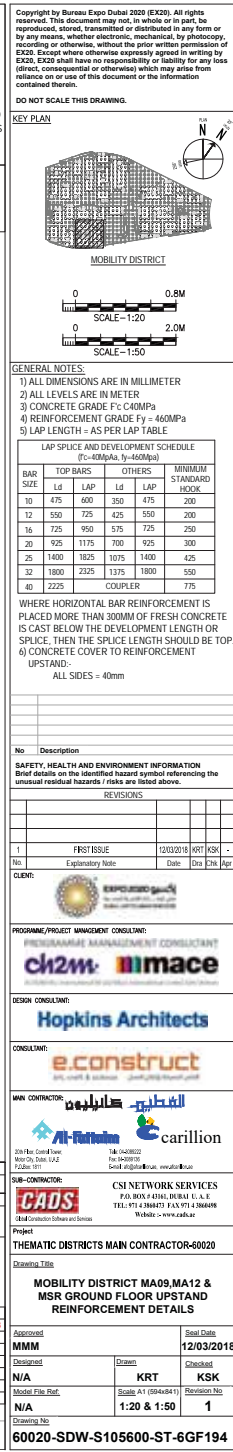
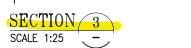
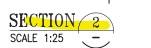
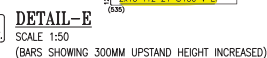
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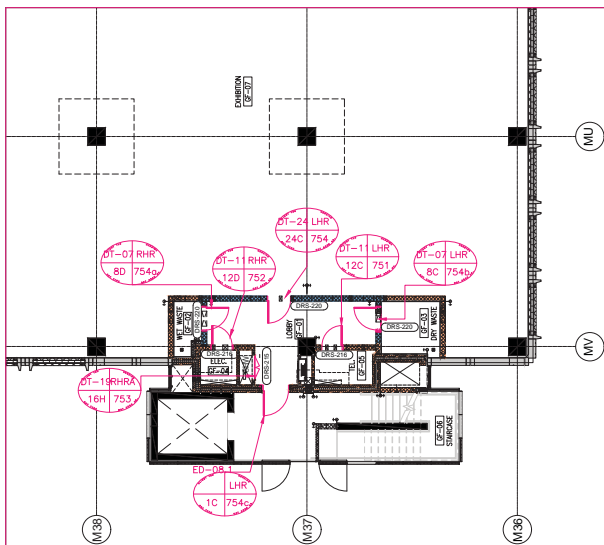
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Revision No:

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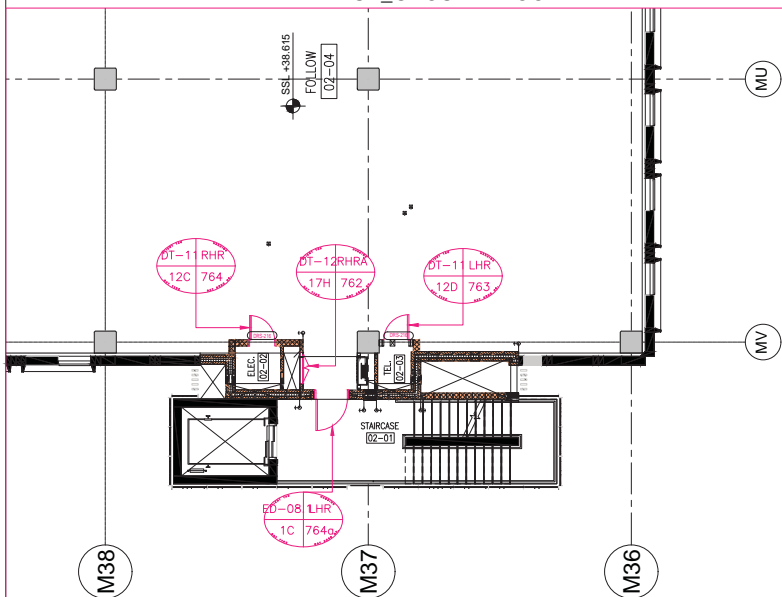
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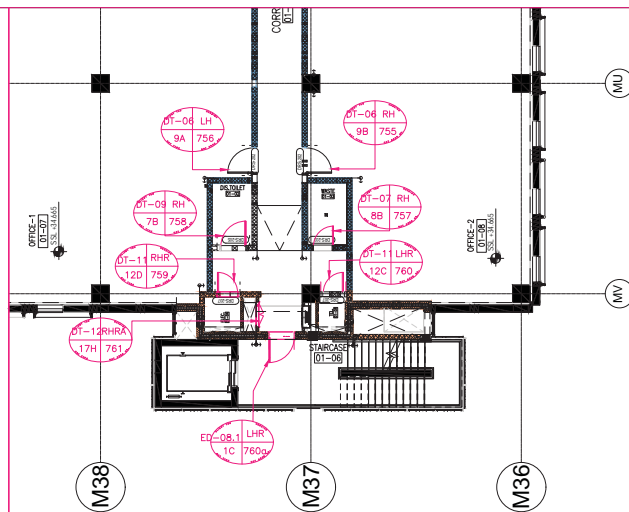
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DT-07	8D	01 NOS
DT-11	12C	01 NOS
DT-11	12D	01 NOS
DT-19	16H	01 NOS
DT-24	16C	01 NOS
ED-08.1	1C	01 NOS
TOTAL		07 NOS

MSR_GROUND FLOOR PLAN

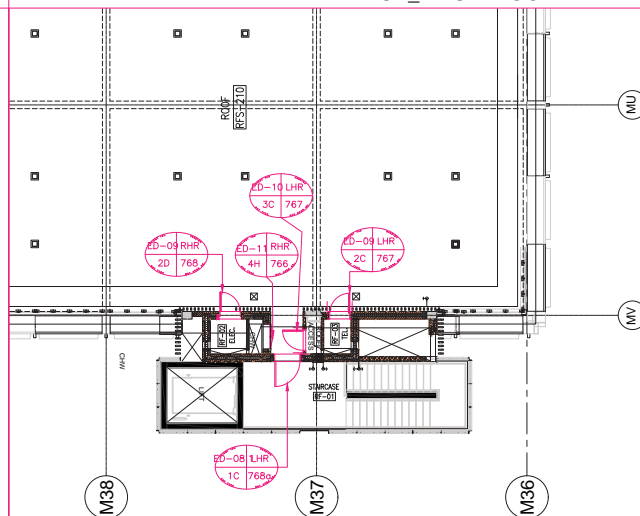


CLIENT DOOR TYPE	BGT DOOR TYPE	QUANTITY
DT-12	17H	01 NOS
DT-11	12C	01 NOS
DT-11	12D	01 NOS
ED-08.1	1C	01 NOS
TOTAL		04 NOS

MSR_SECOND FLOOR PLAN



MSR_FIRST FLOOR PLAN



CLIENT DOOR TYPE	BGT DOOR TYPE	QUANTITY
DT-06	9A	01 NOS
DT-06	9B	01 NOS
DT-07	8B	01 NOS
DT-09	7B	01 NOS
DT-11	12C	01 NOS
DT-11	12D	01 NOS
DT-12	17H	01 NOS
ED-08.1	1C	01 NOS
TOTAL		08 NOS



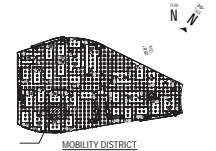
CLIENT DOOR TYPE	BGT DOOR TYPE	QUANTITY
ED-09	2C	01 NOS
ED-09	2D	01 NOS
ED-10	3C	01 NOS
ED-11	4H	01 NOS
ED-08.1	1C	01 NOS
TOTAL		05 NOS

CERTIFICATION			
THE CONTRACTOR CERTIFIES THAT THIS DRAWING HAS BEEN CORRESPONDINGLY CHECKED FOR COMPLIANCE WITH THE CONTRACT.			
ENGINEER DOCUMENT REVIEW			
Document reviewed for compliance with the design concept and to the extent of the engineer's knowledge of the project. This review does not state the contractor from his contractual obligations, nor does it authorize changes to the Contract Sum / Period.			
<input type="checkbox"/> A APPROVED <input type="checkbox"/> B APPROVED WITH COMMENTS <input type="checkbox"/> C REJECTED			
REVIEWED BY DISCIPLINE	STATUS	SIGNATURE	DATE
Architectural			
Building/Hospitality			
Structure			
Electrical			
Mechanical			
Plumbing			
Others			
SUBMITTAL / TRANSMITTAL NO.			REV.
ENGINEER			
Source:			DATE:

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DO NOT SCALE THIS DRAWING.

KEY PLAN



General Notes:
1) ALL DIMENSIONS ARE IN MILLIMETER

IFC DRAWING REFERENCE:
10026-DWG-S100000-AR-20048
10026-DWG-S100000-AR-20049

No	Description					
SAFETY, HEALTH AND ENVIRONMENT INFORMATION						
Brief details on the identified hazard symbol referencing the unusual residual hazards / risks are listed above.						
2	Revised as per comments	RR	JK	HY	22.09.2018	
1	FIRST ISSUE	RR	JK	HY	26.06.2018	
Rev	Description	Dra	Chk'd	Appr	Date	
None						

SAFETY, HEALTH AND ENVIRONMENT INFORMATION
Brief details on the identified hazard symbol referencing the unusual residual hazards / risks are listed above.



Programme / Project Management Consultant



Design Consultant

Hopkins Architects

MAIN CONTRACTOR: 



SUB-CONTRACTOR: _____



Project Title _____

THEMATIC DISTRICTS MAIN CONTRACTOR-60020

Drawing Title

STEEL DOORS AND IRONMONGERY PACKAGE:
MOBILITY DISTRICT

MOBILITY DISTRICT
SPECIAL PAVILION MARKED KEY PLAN -MSB

Figure 1. A schematic diagram of the experimental design. The subjects were divided into two groups: the control group and the experimental group. The control group received a standard training program, while the experimental group received a modified training program. The results of the training program were compared between the two groups.

<u>Approved</u>	<u>Seal Date</u>
-----------------	------------------

HY	26/6/18
----	---------

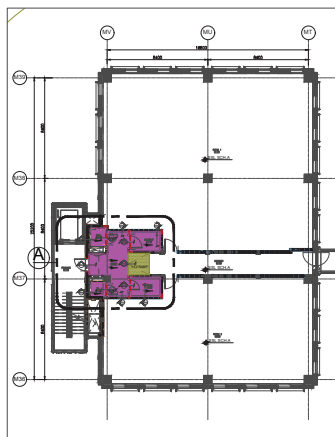
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BB	BB	BB

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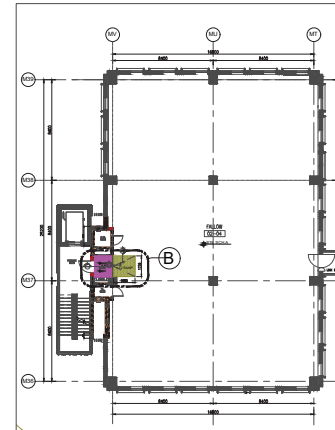
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Drawing No.		

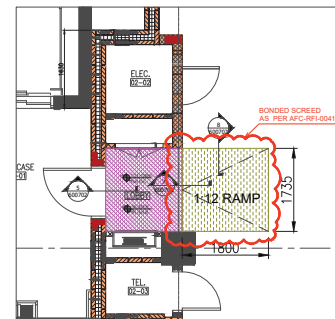
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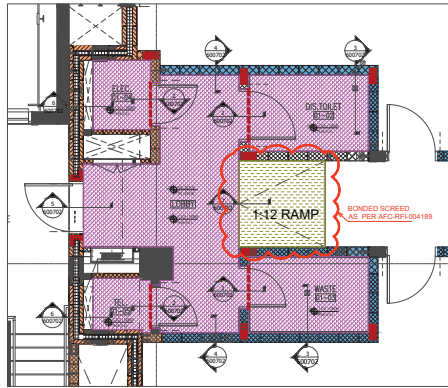
SPECIAL PAVILION TYPE 1 - MSR FIRST FLOOR
SCREED LAYOUT
SCALE: 1:200



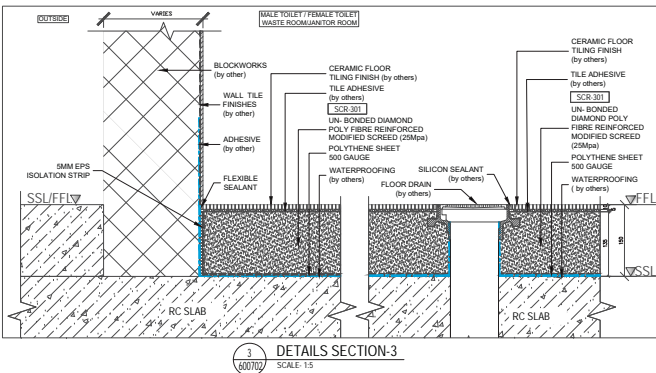
SPECIAL PAVILION TYPE 1 - MSR SECOND FLOOR
SCREED LAYOUT
SCALE: 1:200



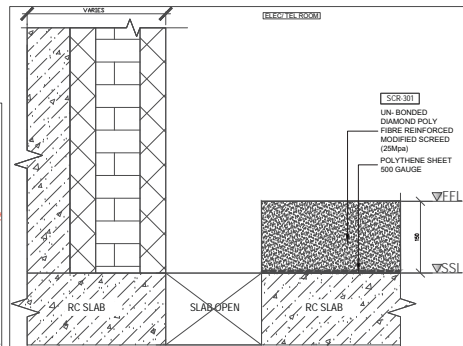
SPECIAL PAVILION TYPE 1 - MSR SECOND FLOOR
DETAIL B
SCALE: 1:50



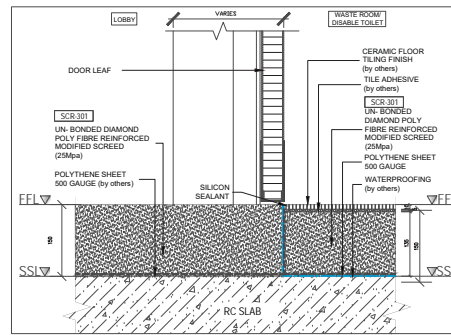
SPECIAL PAVILION TYPE 1 - MSR FIRST FLOOR DETAILS A
SCALE: 1:50



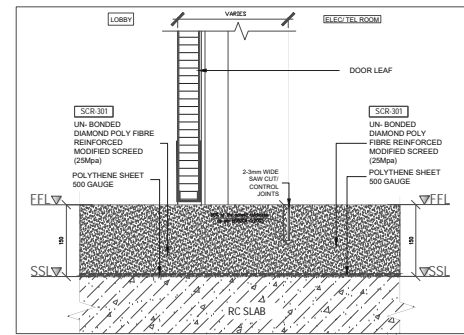
DETAILS SECTION-3
SCALE: 1:5



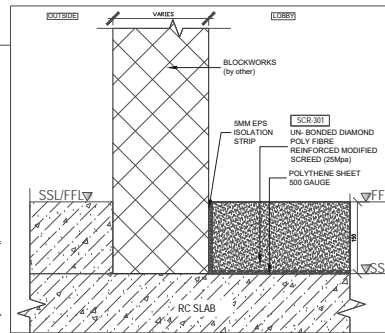
DETAILS SECTION-6
SCALE: 1:5



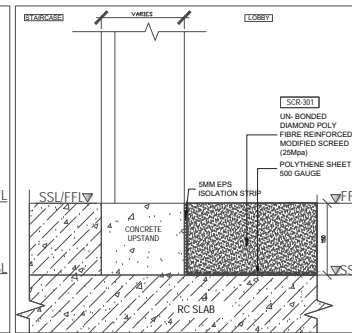
DETAILS SECTION-1
SCALE: 1:5



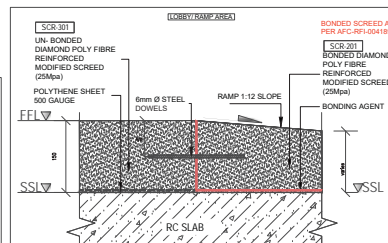
DETAILS SECTION-2
SCALE: 1:5



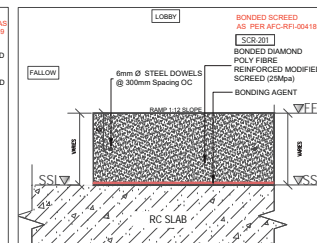
DETAILS SECTION-4
SCALE: 1:5



DETAILS SECTION-5
SCALE: 1:5



DETAILS SECTION-7
SCALE: 1:5



DETAILS SECTION-8
SCALE: 1:5

NOTE: FLOOR DRAIN LOCATION TO BE COORDINATED AS PER SITE CONDITION

RFI REFERENCES:
AFC-RFI-004189- CONFIRMATION ON BONDED SCREED TO BE USED IN RAMP FOR ALL DISTRICTS

IFC ARCHITECTURAL DRAWINGS:
10026-DWG-S100000-AR-200408 REV. 1 (DATED 24/10/2017)
10026-DWG-S100000-AR-201109 REV. 2 (DATED 24/10/2017)
10026-DWG-S100000-AR-700045 REV. 8 (DATED 16/10/2017)
AFC SHOP DRAWINGS:
60020-SDW-S105655-AR-600071 REV. 1 (DATED 23/07/2018)
60020-SDW-S105655-AR-600071 REV. 2 (DATED 26/07/2018)
MATERIAL SUBMITTAL No:
60020-MAT-S100000-ST-000070 REV. 1 (DATED 23/07/2018)
60020-MAT-S100000-ST-000071 REV. 1 (DATED 07/08/2018)

CERTIFICATION

THE CONTRACTOR CERTIFIES THAT THE DRAWINGS HAS BEEN COORDINATED / CHECKED FOR COMPLIANCE WITH THE CONTRACT

ENGINEER DOCUMENT REVIEW

Document reviewed for compliance with the contract and is not intended to be used for any other purpose. The reviewer does not release the contractor from the contractual obligations. The design is a preliminary design.

REVIEWED BY DISCIPLINE STATUS SIGNATURE DATE

Architectural (PM) A SB 25/09/2018

District Municipality (in contract)

Discipline (in contract)

Electrical (Phone Line)

Mechanical (Phone Line)

Planting (Phone Line)

Other

SUBMITTAL / TRANSMITTAL

ENGINEER

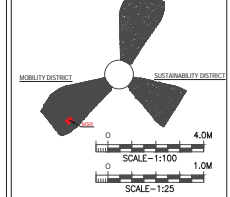
25-09-2018

BLDG NAME	TYPE		FIRST FLOOR		SECOND FLOOR	
	FIRST FLOOR	SECOND FLOOR	SSL (SCH4)	FFL (SCH4)	SSL (SCH4)	FFL (SCH4)
MSR	TYPE 1	TYPE 1	34.665	34.815	38.615	38.765

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DO NOT SCALE THIS DRAWING.

KEY PLAN



GENERAL NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES
2. ALL LEVELS ARE IN METRES

ABBREVIATION:
S.S.L. - STRUCTURAL SLAB LEVEL
THK - THICKNESS
TYP - TYPICAL
L.A.S. - TOP OF SCREED

LEGEND:
-SCR 301 UN BONDED SCREED
-SCR 201 BONDED SCREED
-CONSTRUCTION JOINT

REVISIONS

No Description

SAFETY, HEALTH AND ENVIRONMENT INFORMATION

Read details on the identified hazard symbol referencing the universal residual hazards / risks are listed above.

REVISIONS

No Description

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REVISIONS

No Description

SAFETY, HEALTH AND ENVIRONMENT INFORMATION

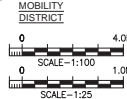
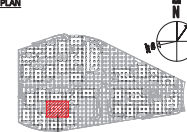
Read details on the identified hazard symbol referencing the universal residual hazards / risks are listed above.

REVISIONS

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DO NOT SCALE THIS DRAWING.

KEY PLAN



GENERAL NOTES:-

1. ALL DIMENSIONS ARE IN MILLIMETRES
2. ALL LEVELS ARE IN METRES

ABBREVIATION:-

- S.S.L. - STRUCTURAL SLAB LEVEL
THK. - THICKNESS
TYP. - TYPICAL
T.O.C. - TOP OF CONCRETE
RCP - REINFORCED CONCRETE POST
M.J. - MOVEMENT JOINT
B.O.O. - BOTTOM OF OPENING
C.J. - EXPANSION JOINT

LEGEND:-

- STRUCTURAL WALL / COLUMN
- BLK-101 (200MM THICK TYPE: HOLLOW, FAR- FACED BLOCK WORK)
- BLK-102 (100MM THICK TYPE: HOLLOW, FAR- FACED BLOCK WORK)
- BLK-501 (200MM THICK FAR- FACED BLOCK WORK CHITTY WALL)
- BLK-505 (300MM THICK FAR- FACED BLOCK WORK CAVITY WALL)
- 1 HOUR (60 MINUTES) FIRE RATED WALL
- 2 HOUR (120 MINUTES) FIRE RATED WALL

No Description
SAFETY, HEALTH AND ENVIRONMENT INFORMATION
Brief details on the identified hazard symbol referencing the universal residual hazards / risks are listed above.

REVISIONS

1	DESCRIPTION	DATE	BY	CHK	APP
1	FIRST ISSUE	25.03.2018	CS	NE	
	Explanatory Note	Date	Dr/Ch/Ar	Apr	

CLIENT:

PROGRAMME/PROJECT MANAGEMENT CONSULTANT:
ch2m hmm
Dubai Municipality (Government)

DESIGN CONSULTANT:
Hopkins Architects

CONSULTANT:
e.construct
Architectural & Engineering Consultants

MAIN CONTRACTOR:
الطيب كاريليون
Al-Futtaim
Dubai Municipality (Government)

SUB-CONTRACTOR:
omni
Dubai Municipality (Government)

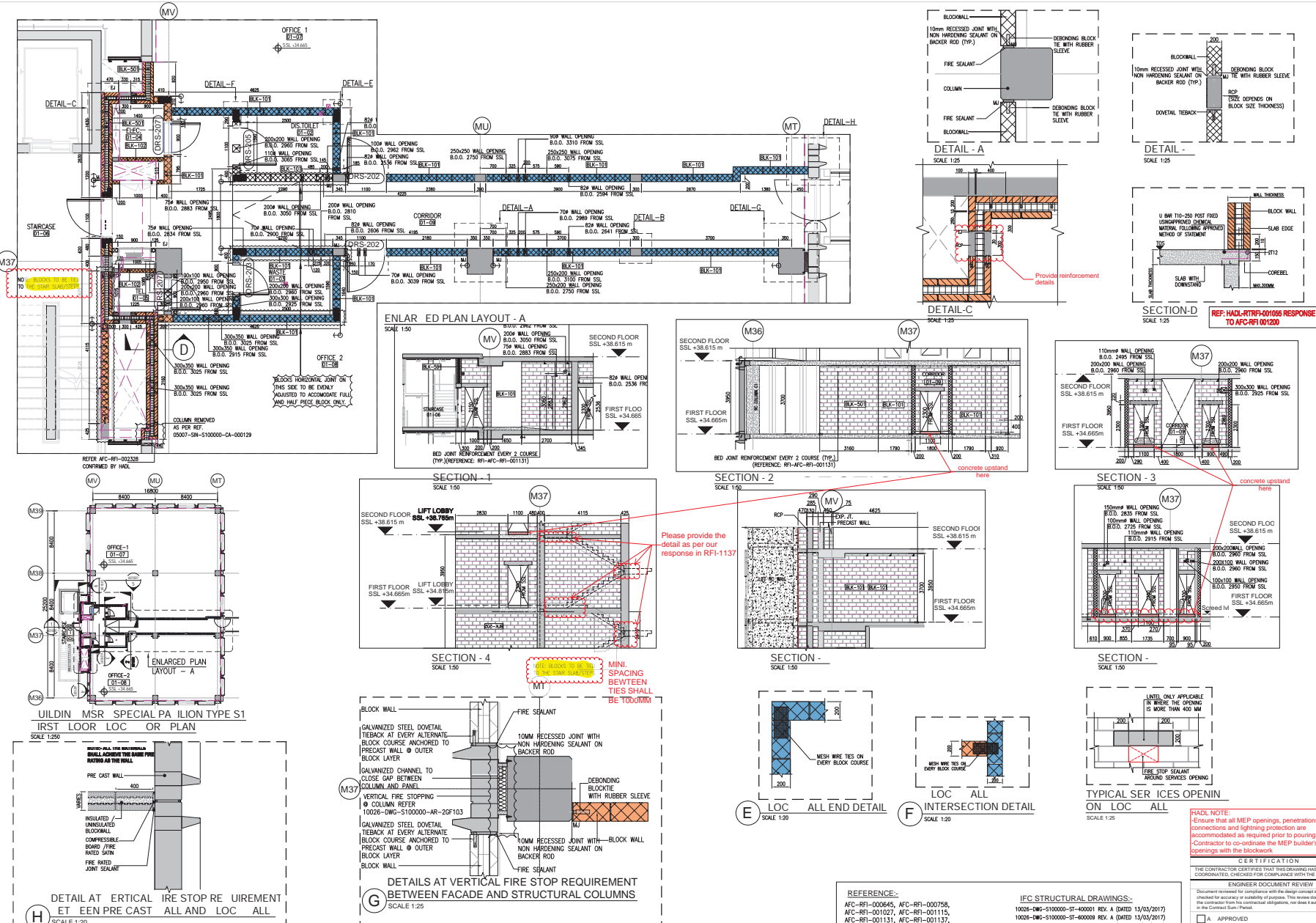
Project:
THEMATIC DISTRICTS MAIN CONTRACTOR-00020

MOBILITY DISTRICT
BUILDING MSR
FIRST FLOOR BLOCK WORK
LAYOUT PLAN & SECTION DETAILS

Scale: 1:100
Scale: 1:25

AS SHOWN 1

60020-SDW-S105655-AR-601001



NOTES:-

1. FIRST FLOOR BLOCK WORK LAYOUT REFERENCE: SPR TYPE S1
2. REFERENCE DRAWING: 10026-DWG-S100000-AR-201105 REV. D (DATED 24/10/2017)
3. BUILDERS WORK OPENING AS PER SITE INSTRUCTION: 60007-SN-S100000-CA-000003(1)

THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NO. 60020-SDW-S105655-AR-600001(2)

MSR - SPECIAL PAVILION TYPE INTERNAL DOOR SCHEDULE - HANDLED TYPE																		
		ROOM NUMBER	TO ROOM NAME		DOOR TYPE	SPECS CODE	STRUCTURAL OPENING		DOOR HANDLE ORIENTATION & ACTION		CONSTRUCTION TYPE		DOOR MATERIAL		LEAF FINISH		FRAME FINISH	FRAME MATERIAL
LEVEL	FROM ROOM NAME						WIDTH	HEIGHT										
FIRST FLOOR	CHW	LOBBY	01-01	01-01	DRS-215	1000 2500	2500	2500	RIGHT	HW-101	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	LOBBY	WASTE	01-02	01-02	DRS-203	2000 2200	2200	2200	RIGHT	HW-102	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	LOBBY	DIS. TOILET	01-03	01-03	DRS-208	1100 2200	2200	2200	RIGHT	HW-103	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-04	01-04	DRS-207	2000 2200	2200	2200	RIGHT	HW-104	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-05	01-05	DRS-207	2000 2200	2200	2200	RIGHT	HW-105	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-06	01-06	DRS-207	2000 2200	2200	2200	RIGHT	HW-106	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-07	01-07	DRS-207	2000 2200	2200	2200	RIGHT	HW-107	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-08	01-08	DRS-207	2000 2200	2200	2200	RIGHT	HW-108	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-09	01-09	DRS-207	2000 2200	2200	2200	RIGHT	HW-109	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-10	01-10	DRS-207	2000 2200	2200	2200	RIGHT	HW-110	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-11	01-11	DRS-207	2000 2200	2200	2200	RIGHT	HW-111	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-12	01-12	DRS-207	2000 2200	2200	2200	RIGHT	HW-112	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-13	01-13	DRS-207	2000 2200	2200	2200	RIGHT	HW-113	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-14	01-14	DRS-207	2000 2200	2200	2200	RIGHT	HW-114	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-15	01-15	DRS-207	2000 2200	2200	2200	RIGHT	HW-115	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-16	01-16	DRS-207	2000 2200	2200	2200	RIGHT	HW-116	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-17	01-17	DRS-207	2000 2200	2200	2200	RIGHT	HW-117	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-18	01-18	DRS-207	2000 2200	2200	2200	RIGHT	HW-118	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-19	01-19	DRS-207	2000 2200	2200	2200	RIGHT	HW-119	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-20	01-20	DRS-207	2000 2200	2200	2200	RIGHT	HW-120	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-21	01-21	DRS-207	2000 2200	2200	2200	RIGHT	HW-121	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-22	01-22	DRS-207	2000 2200	2200	2200	RIGHT	HW-122	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-23	01-23	DRS-207	2000 2200	2200	2200	RIGHT	HW-123	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-24	01-24	DRS-207	2000 2200	2200	2200	RIGHT	HW-124	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-25	01-25	DRS-207	2000 2200	2200	2200	RIGHT	HW-125	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-26	01-26	DRS-207	2000 2200	2200	2200	RIGHT	HW-126	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-27	01-27	DRS-207	2000 2200	2200	2200	RIGHT	HW-127	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-28	01-28	DRS-207	2000 2200	2200	2200	RIGHT	HW-128	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-29	01-29	DRS-207	2000 2200	2200	2200	RIGHT	HW-129	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-30	01-30	DRS-207	2000 2200	2200	2200	RIGHT	HW-130	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-31	01-31	DRS-207	2000 2200	2200	2200	RIGHT	HW-131	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-32	01-32	DRS-207	2000 2200	2200	2200	RIGHT	HW-132	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-33	01-33	DRS-207	2000 2200	2200	2200	RIGHT	HW-133	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-34	01-34	DRS-207	2000 2200	2200	2200	RIGHT	HW-134	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-35	01-35	DRS-207	2000 2200	2200	2200	RIGHT	HW-135	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-36	01-36	DRS-207	2000 2200	2200	2200	RIGHT	HW-136	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-37	01-37	DRS-207	2000 2200	2200	2200	RIGHT	HW-137	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-38	01-38	DRS-207	2000 2200	2200	2200	RIGHT	HW-138	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-39	01-39	DRS-207	2000 2200	2200	2200	RIGHT	HW-139	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-40	01-40	DRS-207	2000 2200	2200	2200	RIGHT	HW-140	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-41	01-41	DRS-207	2000 2200	2200	2200	RIGHT	HW-141	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-42	01-42	DRS-207	2000 2200	2200	2200	RIGHT	HW-142	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-43	01-43	DRS-207	2000 2200	2200	2200	RIGHT	HW-143	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-44	01-44	DRS-207	2000 2200	2200	2200	RIGHT	HW-144	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-45	01-45	DRS-207	2000 2200	2200	2200	RIGHT	HW-145	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-46	01-46	DRS-207	2000 2200	2200	2200	RIGHT	HW-146	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-47	01-47	DRS-207	2000 2200	2200	2200	RIGHT	HW-147	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-48	01-48	DRS-207	2000 2200	2200	2200	RIGHT	HW-148	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-49	01-49	DRS-207	2000 2200	2200	2200	RIGHT	HW-149	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-50	01-50	DRS-207	2000 2200	2200	2200	RIGHT	HW-150	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-51	01-51	DRS-207	2000 2200	2200	2200	RIGHT	HW-151	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-52	01-52	DRS-207	2000 2200	2200	2200	RIGHT	HW-152	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-53	01-53	DRS-207	2000 2200	2200	2200	RIGHT	HW-153	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-54	01-54	DRS-207	2000 2200	2200	2200	RIGHT	HW-154	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-55	01-55	DRS-207	2000 2200	2200	2200	RIGHT	HW-155	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-56	01-56	DRS-207	2000 2200	2200	2200	RIGHT	HW-156	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-57	01-57	DRS-207	2000 2200	2200	2200	RIGHT	HW-157	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-58	01-58	DRS-207	2000 2200	2200	2200	RIGHT	HW-158	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-59	01-59	DRS-207	2000 2200	2200	2200	RIGHT	HW-159	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-60	01-60	DRS-207	2000 2200	2200	2200	RIGHT	HW-160	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-61	01-61	DRS-207	2000 2200	2200	2200	RIGHT	HW-161	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-62	01-62	DRS-207	2000 2200	2200	2200	RIGHT	HW-162	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-63	01-63	DRS-207	2000 2200	2200	2200	RIGHT	HW-163	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-64	01-64	DRS-207	2000 2200	2200	2200	RIGHT	HW-164	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-65	01-65	DRS-207	2000 2200	2200	2200	RIGHT	HW-165	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-66	01-66	DRS-207	2000 2200	2200	2200	RIGHT	HW-166	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-67	01-67	DRS-207	2000 2200	2200	2200	RIGHT	HW-167	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-68	01-68	DRS-207	2000 2200	2200	2200	RIGHT	HW-168	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-69	01-69	DRS-207	2000 2200	2200	2200	RIGHT	HW-169	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-70	01-70	DRS-207	2000 2200	2200	2200	RIGHT	HW-170	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-71	01-71	DRS-207	2000 2200	2200	2200	RIGHT	HW-171	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-72	01-72	DRS-207	2000 2200	2200	2200	RIGHT	HW-172	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-73	01-73	DRS-207	2000 2200	2200	2200	RIGHT	HW-173	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-74	01-74	DRS-207	2000 2200	2200	2200	RIGHT	HW-174	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-75	01-75	DRS-207	2000 2200	2200	2200	RIGHT	HW-175	NO	NO	NO	NO	NO	NO	NO	NO
FIRST FLOOR	BLK-101	BLK-101	01-76	01-76	DRS-207	2000 2200	22											

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DO NOT SCALE THIS DRAWING.

KEY PLAN



SCALE-1:100

General Notes:

No. Description
SAFETY, HEALTH AND ENVIRONMENT INFORMATION
Brief details on the identified hazard symbol referencing the unusual residual hazards / risks are listed above.

REVISIONS			
No.	Description	Date	By
2	REVISED AS PER COMMENT	30/03/2016	SCB/AMC
1	FIRST ISSUE	29/03/2016	SCB/AMC

CLIENT:

PROGRAMME/PROJECT MANAGEMENT CONSULTANT:

DESIGN CONSULTANT:

MAIN CONTRACTOR:

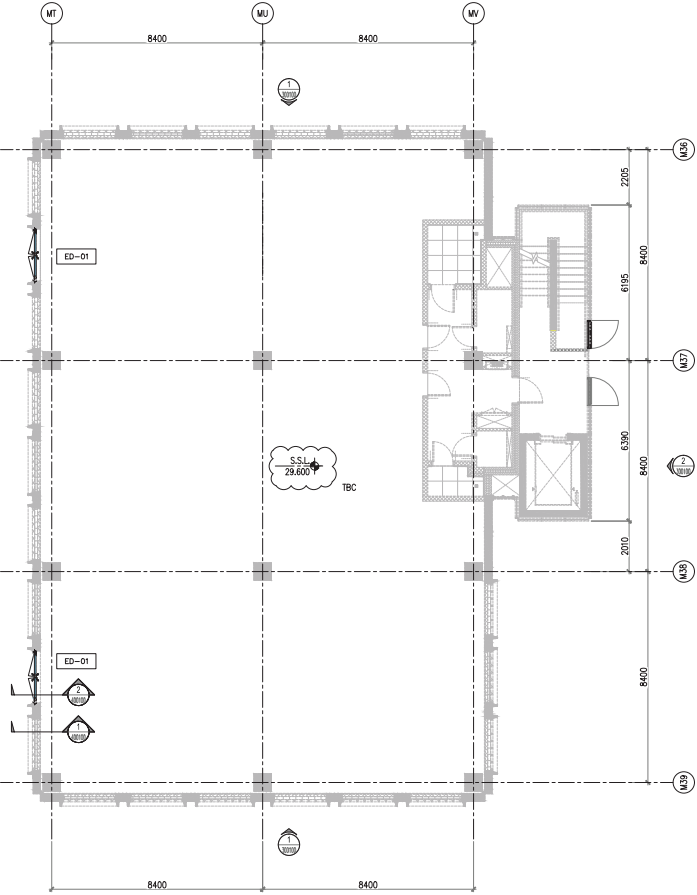
SUB-CONTRACTOR:

Project:
GLAZING & ALUMINUM PACKAGE:
MOBILITY DISTRICT
SPECIAL PAVILION (MSR)
FLOOR PLANS

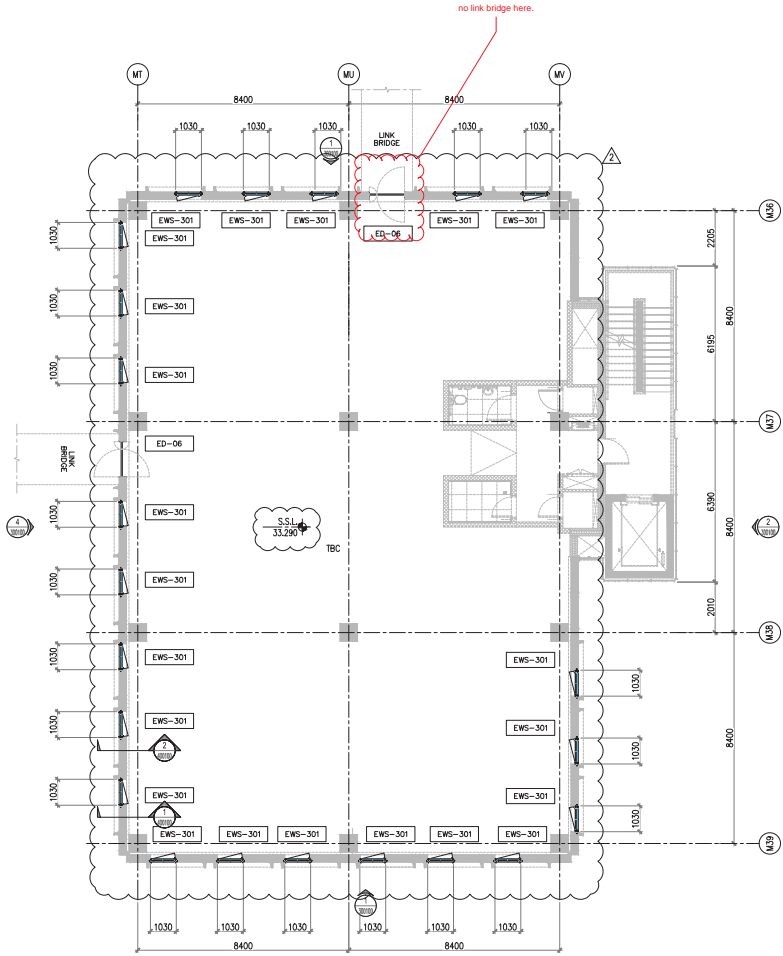
NO.	DATE	BY	CHKD.	DATE	BY	CHKD.
AC						
SCB						
AMC						

60020-SDW-S105655-FC-200100

CERTIFICATION			
THE CONTRACTOR CERTIFIES THAT THIS DRAWING HAS BEEN COORDINATED, CHECKED FOR COMPLIANCE WITH THE CONTRACT.			
ENGINEER DOCUMENT REVIEW			
Document reviewed for compliance with the design concept and is not checked for accuracy or suitability of purpose. This review does not release the Contractor from its contractual obligations, nor does it authorize changes in the Contract Sum / Period.			
<input type="checkbox"/> A. APPROVED			
<input checked="" type="checkbox"/> B. APPROVED WITH COMMENTS			
<input type="checkbox"/> C. REJECTED			
REVIEWED BY DISCIPLINE	STATUS	SIGNATURE	DATE
Architectural (PA)	B	AJA	02/03/16
Structural (Structural)			
Electrical (Electrical)			
Mechanical (Mechanical)			
Planting (Planting)			
Other			
SUBMITTAL / TRANSMITTAL			
ENGINEER: Hopkins Architects			
Signed: DATE: 02/03/16			



1 GROUND FLOOR PLAN
SCALE 1:100



2 FIRST FLOOR PLAN
SCALE 1:100

MOBILITY - SPECIAL PAVILION-COMMERCIAL

MSR ZONE 7

NO	TYPE	LOCATION/QTY				TOTAL	CLEAR OPENING (MM)		HW SET	REMARKS
		GF	1F	2F	3F		HIGHT	WIDTH		
1	EWS-301		23	23		46	3310	1030		*PRECAST/PC DRAWINGS NOT RECEIVED FROM ALC
2	ED-01	2				2	4850	2060		
3	ED-06		1	1		2	3460	1500		




CONTRACT DRAWING REFERENCE:

1. 10026-DWG-S105041-AR-200002 REV B
2. 10026-DWG-S105041-AR-200001 REV B
3. 10026-DWG-S105041-AR-300007 REV B

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KEY PLAN



MOBILITY

General Notes:


1) ALL DIMENSIONS ARE IN MILLIMETRES
2) ALL LEVELS ARE IN METRES

ABBREVIATION:


S.S.L - STRUCTURAL SLAB LEVEL
F.F.L - FLOOR FINISH LEVEL
TYP - TYPICAL
T.O.F - TOP OF FOOTING
B.O.F - BOTTOM OF FOOTING
THK - THICKNESS
T.O.U - TOP OF UPSTAND
EQ - EQUAL
CJ - CONSTRUCTION JOINT

LEGEND:

RFI RESPONSE:



RFI RESPONSE:



PANEL TYPE TO BE CONFIRMED

No	Description	22.03.16	PJ
1	First Issue	22.03.16	PJ
No.	Explanatory Note	Date	Drawn/Checked

CLIENT: **ESPO**

PROGRAM/PROJECT MANAGEMENT CONSULTANT:
ch2m hill

DESIGN CONSULTANT:
Hopkins Architects

MAIN CONTRACTOR:
الطيب حارس
Al-Fattani
carillion

20th Floor, Central Tower, Suite 2001, P.O. Box 107078, Dubai, UAE
E: info@al-fattani.com, info@carillion.ae

SUB-CONTRACTOR:
HPBS

Project:
THEMATIC DISTRICTS MAIN CONTRACTOR-60020

Drawn by:
PRECAST PACKAGES MOBILITY DISTRICT
MSR(SPECIAL REVENUE PAVILION)
BUILDING ELEVATION

Issue	Date	22.03.2016
BAHAA		
OSMAN	PJ	OSMAN
Drawn by:	Issue:	Revised by:
N/A	AS SHOWN	1

60020-SDW-S105655-FC-300001



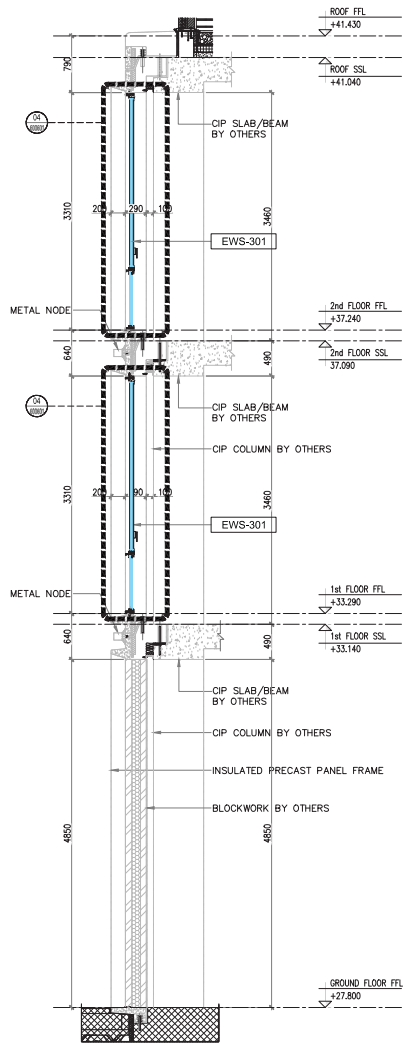
CERTIFICATE OF REVIEW			
THE CONTRACTOR CERTIFIES THAT THE <u>ACADEMIC FLOOR IN</u> DOCUMENTED, CHICAGO, <u>SPRINGER</u> PROJECT NO. <u>67-800</u> IS IN ACCORDANCE WITH THE <u>ENGINEERING</u> DOCUMENT REVIEW			
I have examined the plans and specifications with the design engineer and the architect and find that the design complies with the applicable building codes and the contract from the contractual obligations, nor does it authorize changes to the Contract form. (Initial)			
<input type="checkbox"/> A. APPROVED <input checked="" type="checkbox"/> B. APPROVED WITH COMMENTS <input type="checkbox"/> C. REJECTED			
REVIEWED BY DISCIPLINE	STATUS	SIGNATURE	DATE
Architectural (P/A)	B	A/A	02/08
Civil (Mechanical in contract) Civil (Structural in contract) Electrical (Mechanical) Electrical (Phone Line) Mechanical (Phone Line) Plumbing (Phone Line)			
OTHER _____			
SUBMITTAL / TRANSMITTAL		REV.	
ENGINEER / (positive Architects)			
Issued		DATE	02/08



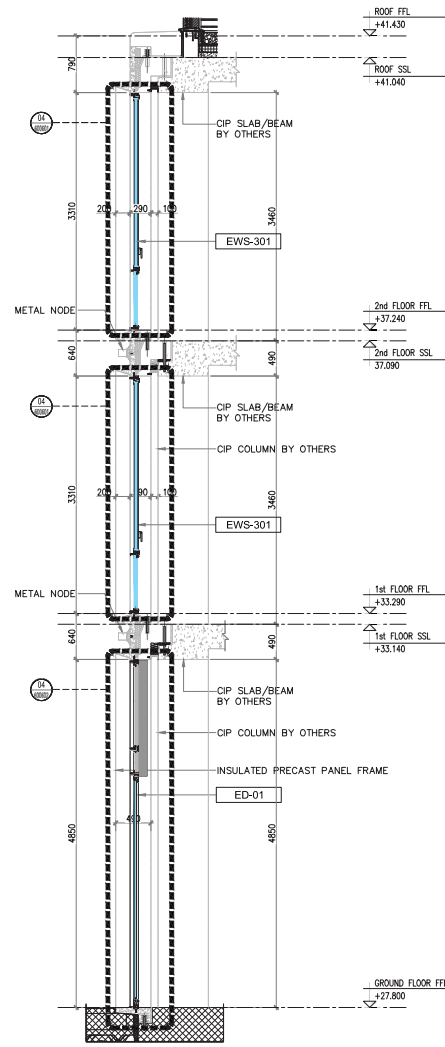
CERTIFICATION			
<p>THE CONTRACTOR CERTIFIES THAT THIS DRAWING HAS BEEN COORDINATED, CHECKED FOR COMPLIANCE WITH THE CONTRACT</p> <p>ENGINEER DOCUMENT REVIEW</p> <p><small>Minimum review shall be conducted and the design reviewed and not checked for accuracy or suitability of purpose. This review does not release the contractor from all contractual obligations, nor does it constitute change in the Contract Sum / Period</small></p>			
<input checked="" type="checkbox"/> A	APPROVED WITH COMMENTS		
<input type="checkbox"/> C	REJECTED		
<input type="checkbox"/> D	RECEIVED FOR INFORMATION		
REVIEWED BY	DATE	SIGNATURE	DATE
Architectural (pk)	A	AZA	2003/05/21
Civil (Municipality) (in contract)			
Structure (in contract)			
Electrical (In House)			
Mechanical (In House)			
Plumbing (In House)			
Others			
SUBMITTAL / TRANSMITTAL NO		REV	
ENGINEER			
Signed: _____		DATE: 5/21/03	

LEGEND:

60020-SDW-S105655-FC-400001



1 SECTION-1
SCALE 1:35



2 SECTION-2
SCALE 1:35

CERTIFICATION			
THE CONTRACTOR CERTIFIES THAT THIS DRAWING HAS BEEN COORDINATED, CHECKED FOR COMPLIANCE WITH THE CONTRACT.			
ENGINEER DOCUMENT REVIEW			
Document reviewed for compliance with the design concept and is not checked for accuracy or suitability of purpose. This review does not release the contractor from the contractual obligations, nor does it authorize changes in the Contract Sum / Period.			
<input checked="" type="checkbox"/> A. APPROVED <input type="checkbox"/> B. APPROVED WITH COMMENTS <input type="checkbox"/> C. REJECTED <input type="checkbox"/> D. RECEIVED FOR INFORMATION			
REVIEWED BY DISCIPLINE	STATUS	SIGNATURE	DATE
Architectural (PA)	A	AZA	02/05/2018
Structural (S-Construct)			
Structural (S-Consultant)			
Electrical (Powers Law)			
Mechanical (Powers Law)			
Plumbing (Powers Law)			
Others			
SUBMITTAL / TRANSMITTAL		REV	
NO		ENGINEER / Hopkins Architects	
Signed		DATE: 02/05/2018	

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DO NOT SCALE THIS DRAWING.

KEY PLAN

SCALE - 1:100

General Notes:

No.	Description
1	SAFETY, HEALTH AND ENVIRONMENT INFORMATION

Brief details on the identified hazard symbol referencing the unusual residual hazards / risks are listed above.

REVISIONS

No.	First Issue	Date	Drawn	Check	Appr.
1	Exploratory Note	29/03/2018	SCB	AMC	

CLIENT:

PROGRAMME/PROJECT MANAGEMENT CONSULTANT:

DESIGN CONSULTANT:

Hopkins Architects

MAIN CONTRACTOR:

2018a Comp Team
WFO: 2018a Comp Team
2018a Comp Team

2018a Comp Team
WFO: 2018a Comp Team
2018a Comp Team

SUB-CONTRACTOR:

WALL TECHNOLOGY LLC.

Project: THEMATIC DISTRICTS MAIN CONTRACTOR-60020

Drawings Title: GLAZING & ALUMINUM PACKAGE: MOBILITY DISTRICT SPECIAL PAVILION (MSR) BUILDING SECTIONS

Approved	Scale Date
AC	29/03/2018
Disseminated	Drawn
N/A	SCB
Model File Path	Scale A1 (004x61)
N/A	1:35
Revision No.	1

60020-SDW-S105655-FC-400100

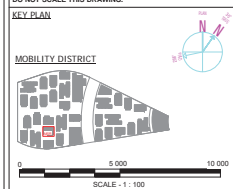


4.0 **BMS Systems Drawings**



NOTE:
ALL ELECTRICAL WORK LEVELS ARE TAKEN FROM SPECIFICALLY DEFINED REFERENCE LEVELS, GF +0.000 (DMD LEVEL +29.325) AND DF +5.490 (DMD LEVEL +34.815) TO BOTTOM OF CABLE TRAY AND TRUNKING.

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GENERAL NOTES:

DESIGN DRAWING REFERENCE			
DRAWING TITLE	DRAWING NUMBER	REV	DATE

REVIT LINK REFERENCE MODEL		
DISCIPLINE	MODEL NUMBER	DATE
ARCHITECTURAL	60020-MDL-S105655-AR-000333	
STRUCTURAL	60020-MDL-S105655-ST-000333	

SAFETY, HEALTH AND ENVIRONMENT INFORMATION
Brief details on the identified hazard symbol referencing the unusual residual hazards / risks are listed above.

1	FIRST ISSUE	06/08/2018	MHI	RK	AK
No.	Explanatory Note	Date	Dra	Chk	Apr

CLIENT:



PROGRAMME/PROJECT MANAGEMENT CONSULTANT:



DESIGN CONSULTANT:



المطبخ - هالابون



MEP-Contractor:

P.O. Box 159, Dubai, United Arab Emirates,
Telephone +9714 2119111, Fax +9714 2820676

Project	
---------	--

THEMATIC DISTRICTS MAIN CONTRACTOR-60020

Drawing Title
MOBILITY DISTRICT

SPECIAL RENTED PAVILION

MSB - GROUND FLOOR - OPTION A1 & FIRST FLOOR -

OPTION B1 - BMS LAYOUT

<u>Approved</u>	<u>Seal Date</u>
-----------------	------------------

AK	06/08/2018
----	------------

<u>Designed</u>	<u>Drawn</u>	<u>Checked</u>
-----------------	--------------	----------------

N/A	RK	MHI
-----	----	-----

<u>Model File Ref:</u>	<u>Scale</u> A1(594x841)	<u>Revision No</u>
0000-0000-000000-00-000000	A = 1/8" = 1'-0"	4

60020-MCL-S100000-BS-000333	As indicated	1
-----------------------------	--------------	---

Drawing No.	
-------------	--

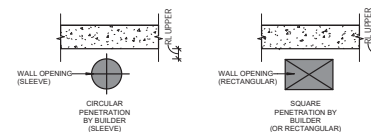
60020-SDW-S105655-BS-200023



5.0 **MEP Drawings**



Tag Reference	DESCRIPTION	SERVICE REF	FROM OF DB LVL	HEIGHT	WIDTH
E01	50x2 CABLE TRAY	E	4145 mm	100 mm	200 mm
E02	100x40 CABLE TRAY	E	4390 mm	100 mm	100 mm
E03	50x2 CABLE TRAY	E	4675 mm	100 mm	100 mm
E04	3 NOS. 50x2 CABLE TRAY	E	4825 mm	100 mm	360 mm
E05	50x2 CABLE TRAY	E	4930 mm	100 mm	100 mm
E06	50x2 CABLE TRAY	E	4825 mm	100 mm	100 mm
E07	50x2 CABLE TRAY	E	4825 mm	100 mm	100 mm
E08	100x40 CABLE TRAY	E	4550 mm	100 mm	100 mm
E09	50x2 CABLE TRAY	E	4825 mm	100 mm	100 mm
E10	50x2 CABLE TRAY	E	4750 mm	100 mm	100 mm
E11	50x2 CABLE TRAY	E	4825 mm	100 mm	100 mm
E12	5 NOS. 50x2 CABLE TRAY	E	4825 mm	100 mm	450 mm
E13	150x50 CABLE TRAY	E	4550 mm	100 mm	196 mm
E14	50x2 CABLE TRAY	E	4825 mm	100 mm	100 mm
E15	2 NOS. 50x2 CABLE TRAY	E	4725 mm	100 mm	220 mm
E16	50x2 CABLE TRAY	E	4900 mm	100 mm	100 mm



10.ANY CIVIL WORK FOR CHAMBERS, SUMP PITS, MANHOLES, SAND TRAPS, TRENCHS, GULLY TRAPS, COVERS & ASSOCIATED BUILDERS WORK ARE BY CIVIL CONTRACTOR.

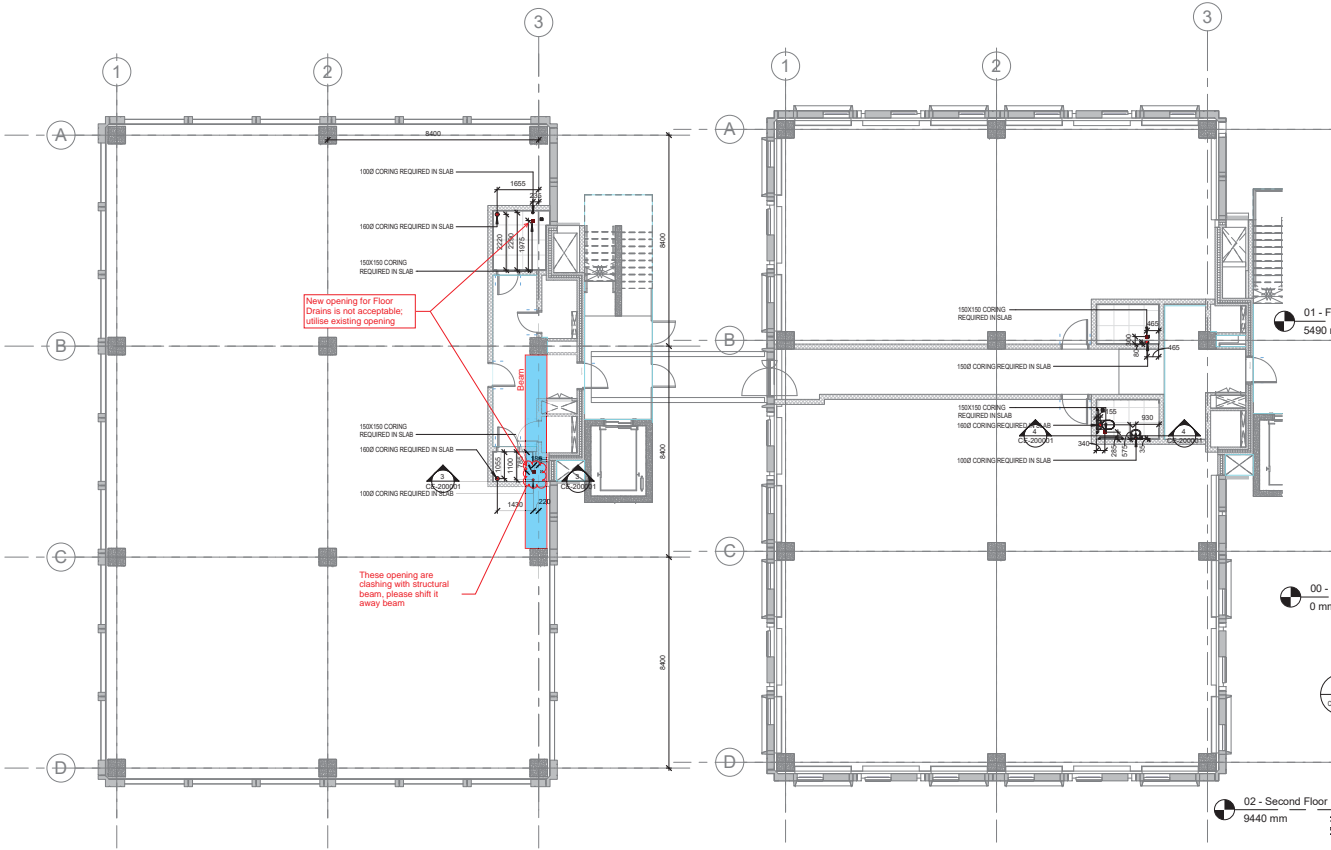
W = WALL

Signed: _____ DATE: _____

GENERAL NOTES:

60020-SDW-S105655-CE-2GF001

1-Lintel shall be provided on top of MEP opening as per structural drawings.
2-The openings are approved assuming that they are passing through block work and not clashing with any structural element.



1 MSR - GROUND FLOOR SLAB MEP BUILDERS WORK LAYOUT
SCALE: 1 : 100

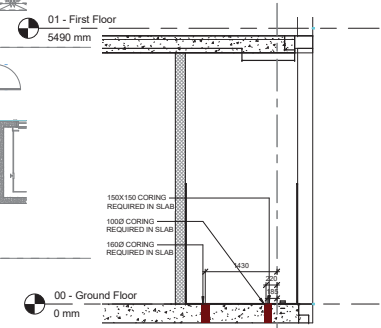
2 MSR - FIRST FLOOR SLAB MEP BUILDERS WORK LAYOUT
SCALE: 1 : 100

e.construct Comment:
Openings are approved to be introduced in the slab; however, site to follow approved structural details and method statement.

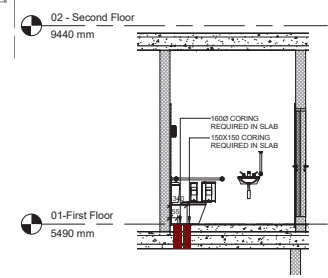
- ALL SLEEVES/OPENING LESS THAN 200mm TO BE FORMED IN SUCH A WAY TO AVOID ANY CUTTING OF BEAM/SLAB RFT. AS MUCH AS POSSIBLE. EXCESSIVE CUTTING OF SLAB/BEAM RFT. IS NOT ACCEPTED (MAX. OF TWO BARS ARE ALLOWED TO BE CUT CONSECUTIVELY).
- IF MORE BARS ARE TO BE CUT ON SITE A MINIMUM DISTANCE OF 2 x SLEEVE DIAMETER OR REBAR SPACING OR 400mm MIN. IS TO BE MAINTAINED CLEAR BETWEEN OPENINGS.
- ANY SITUATION WHERE THE OPENINGS ARE EXCESSIVELY CUTTING SLAB/BEAMS REBAR SHOULD BE REPORTED TO THE STRUCTURAL ENGINEER AS AN RFI.
- NO MAIN RFT. IN ANY BEAM IS ACCEPTED TO BE CUT, SLEEVES/OPENINGS IN BEAMS TO BE FORMED IN THE MIDDLE THIRD PORTION OF THE BEAM.

BUILDERS WORK NOTES

- 1.THE MEP BUILDERS WORK DRAWING DEMONSTRATES THE DESIGN INTENT OF THE BUILDING SERVICES WHICH PASS THROUGH THE SLABS / WALLS. THIS DRAWING SHALL BE USED FOR INFORMATION PURPOSES ONLY AND HAS BEEN DEVELOPED TO ASSIST THE MAIN CONTRACTOR IN SETTING-OUT OF EACH PENETRATION.
- 2.THE STRUCTURAL ENGINEER IS RESPONSIBLE FOR ENSURING THE MEP PENETRATIONS DO NOT ADVERSELY AFFECT THE STRUCTURAL INTEGRITY OF THE BUILDING.
- 3.SHOULD A CHANGE IN OPENING POSITION BE REQUIRED, IT SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE MEP CONTRACTOR FOR REVIEW, COMMENT, AND CO-ORDINATION.
- 4.IT SHALL BE THE RESPONSIBILITY OF THE MAIN CONTRACTOR TO PROVIDE ALL THE REQUIRED OPENINGS AS INDICATED ON THIS DRAWING AND ENSURE ALL PENETRATIONS ARE CORRECTLY POSITIONED AS SCHEDULED. THE MARKING OF ALL BUILDERS WORK IS BY THE MEP SUBCONTRACTOR.
- 5.IF THE MAIN CONTRACTOR IS UNSURE OF ANY PENETRATION SIZE OR POSITION SHOWN HE SHOULD SEEK THE ASSISTANCE FROM THE MEP CONTRACTOR FOR CLARIFICATION. THE MAIN CONTRACTOR IS REQUESTED NOT TO ASSUME ANY ELEMENTS OF THE MEP BUILDERS WORK.
- 6.CAST ELECTRICAL DUCTS AND CONDUIT WHICH RETICULATE DRAWINGS.
- 7.ALL DIMENSIONS SHOWN ARE IN MILLIMETRES. USE THE INDICATED DIMENSIONS ONLY FOR SETTING OUT OF ALL BUILDERS WORK PENETRATIONS. DO NOT SCALE FROM THIS DRAWING UNDER ANY CIRCUMSTANCES.
- 8.THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL SUPPORTING MEP BUILDERS WORK AND SERVICES DRAWINGS.
- 9.FINAL LOCATION OF FLOOR DRAINS ARE SUBJECT TO RECEIPT OF FINAL TILING LAYOUT.
- 10.ANY CIVIL WORK FOR CHAMBERS, SUMP PITS, MANHOLES, SAND/GRAPPS, TRENCHES, GULLY TRAPS, COVERS & ASSOCIATED BUILDERS WORK ARE BY CIVIL CONTRACTOR.



3 SECTION M-M
SCALE: 1 : 50



4 SECTION N-N
SCALE: 1 : 50

HL Comments:
1) Contractor have not followed comments on previous related submissions
2) Indicate use a unique colour for each slab opening whether it is existing or proposed new

CERTIFICATION				
THE CONTRACTOR CERTIFIES THAT THIS DRAWING HAS BEEN COORDINATED/ CHECKED FOR COMPLIANCE WITH THE CONTRACT				
ENGINEER DOCUMENT REVIEW				
Document presented for compliance with the design contract and not intended for issuance or publication purposes. This review does not release the contractor from his contractual obligations, nor does it constitute changes in the Contract Terms Period.				
<input type="checkbox"/> A. APPROVED				
<input checked="" type="checkbox"/> B. APPROVED WITH COMMENTS				
<input type="checkbox"/> C. REJECTED				
REVIEWED BY DISCIPLINE				
Discipline	Status	Signature	Date	
Architectural	B	AZA	30/09/18	
Structural	B	Ramy Saleh	11/09/2018	
Electrical	B			
Mechanical	B			
Plumbing	B	AP	30/09/2018	
Others				
NO SUBMITTAL / TRANSMITTAL	REV.			
ENGINEER				
Signature			30/09/18	

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DO NOT SCALE THIS DRAWING.

KEY PLAN

MOBILITY DISTRICT

0 5 000 10 000
SCALE: 1 : 100

GENERAL NOTES:

DESIGN DRAWING REFERENCE

DRAWING TITLE	DRAWING NUMBER	REV	DATE

REVIT LINK REFERENCE MODEL

DISCIPLINE	MODEL NUMBER	DATE
ARCHITECTURAL	60020-MDL-S105655-AR-000003	
STRUCTURAL	60020-MDL-S105655-ST-000003	

SAFETY, HEALTH AND ENVIRONMENT INFORMATION
Brief details on the identified hazard symbol referencing the unusual residual hazards / risks are listed above.

No.	FIRST ISSUE	Date	Des	CHK	APR
1	Explanatory Note	06/09/2018	AB	MG	

CLIENT:
EXPO 2020

PROGRAMME/PROJECT MANAGEMENT CONSULTANT:
ch2m hince

DESIGN CONSULTANT:
Hopkins Architects

MAIN CONTRACTOR:
القطر - هاتين

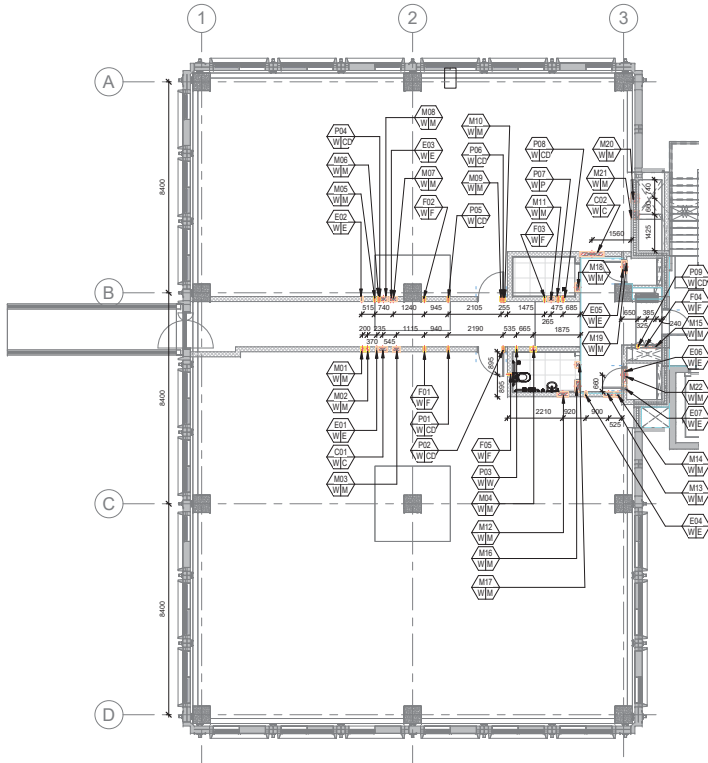
MEP Contractor:
Al-Fattim MEP

Project:
THEMATIC DISTRICTS MAIN CONTRACTOR-60020

Drawing Title:
MOBILITY DISTRICT
SPECIAL RENTED PAVILION
MSR - GROUND FLOOR SLAB & FIRST FLOOR SLAB
MEP BUILDERS WORK LAYOUT

SL	Design	Drawn	Checked	Revision No
1	AB	MG		1

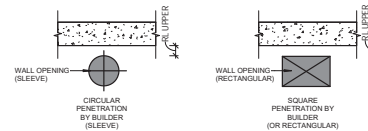
Model File Ref: Scale: A1(594x841)
60020-MDL-S105655-BS-000033
As indicated
60020-SDW-S105655-CE-200001



1 MSR - FIRST FLOOR - BUILDERS WORK MEP BLOCK WALL OPENING LAYOUT
SCALE: 1 : 100

TAG REF	DESCRIPTION	SERVICE REF	FROM FF 5490 LVL	DIAMETER	HEIGHT	WIDTH
C01	MEP SERVICES	C	2820 mm		300 mm	362 mm
C02	MEP SERVICES	C	2890 mm		575 mm	950 mm
F01	650 SPRINKLER PIPE	F	3100 mm	100 mm		
F02	650 SPRINKLER PIPE	F	3097 mm	100 mm		
F03	250 SPRINKLER PIPE	F	3097 mm	75 mm		
F04	250 & 800 SPRINKLER PIPE	F	2625 mm		160 mm	275 mm
F05	250 SPRINKLER PIPE	F	2955 mm	75 mm		
M01	400 CHWR PIPE	M	3255 mm	150 mm		
M02	400 CHWS PIPE	M	3255 mm	150 mm		
M03	200x200 GENERAL EXHAUST AIR DUCT	M	2820 mm		300 mm	300 mm
M04	1500 GENERAL EXHAUST AIR DUCT	M	2975 mm	250 mm		
M05	200 CHWR PIPE	M	3360 mm	75 mm		
M06	200 CHWS PIPE	M	3360 mm	75 mm		
M07	200x150 EXHAUST AIR DUCT	M	2800 mm		250 mm	300 mm
M08	200x150 FRESH AIR DUCT	M	2800 mm		250 mm	300 mm
M09	200 CHWR PIPE	M	3360 mm	100 mm		
M10	200 CHWS PIPE	M	3360 mm	100 mm		
M11	1500 GENERAL EXHAUST AIR DUCT	M	2790 mm		250 mm	250 mm
M12	400x350 RETURN AIR DUCT	M	2800 mm		500 mm	450 mm
M13	3500 SUPPLY AIR DUCT	M	2875 mm		400 mm	400 mm
M14	250 CHWR / CHWS PIPE	M	3125 mm		100 mm	260 mm
M15	500 CHWR / CHWS PIPE	M	2785 mm		200 mm	475 mm
M16	400x350 RETURN AIR DUCT	M	2800 mm		500 mm	450 mm
M17	2000 SUPPLY AIR DUCT	M	2860 mm		250 mm	250 mm
M18	2500 SUPPLY AIR DUCT	M	3110 mm		350 mm	350 mm
M19	2500 SUPPLY AIR DUCT	M	2820 mm		350 mm	350 mm
M20	250x250 FRESH AIR DUCT	M	2780 mm		350 mm	350 mm
M21	300x250 EXHAUST AIR DUCT	M	2760 mm		400 mm	350 mm
M22	2500 SUPPLY AIR DUCT	M	2715 mm		350 mm	350 mm
P01	320 Condensate Drain Pipe	GD	2904 mm	75 mm		
P02	320 Condensate Drain Pipe	GD	2904 mm	75 mm		
P03	250 Domestic Cold Water Pipe	W	3416 mm	75 mm		
P04	320 Condensate Drain Pipe	GD	2874 mm	75 mm		
P05	320 Condensate Drain Pipe	GD	3097 mm	75 mm		
P06	320 Condensate Drain Pipe	GD	3097 mm	75 mm		
P07	250 DOMESTIC COLD WATER	W	3255 mm	75 mm		
P08	500 Condensate Drain Pipe	GD	2935 mm	100 mm		
P09	500 Condensate Drain Pipe	GD	2825 mm	100 mm		

TAG REF	DESCRIPTION	SERVICE REF	FROM FF 5490 LVL	HEIGHT	WIDH
E01	50X50 CABLE TRAY	E	3175 mm	100 mm	100 mm
E02	50X50 CABLE TRAY	E	3075 mm	100 mm	100 mm
E03	50X50 CABLE TRAY	E	3250 mm	100 mm	100 mm
E04	50X50 CABLE TRAY	E	3350 mm	100 mm	100 mm
E05	4 NOS. 50X50 CABLE TRAY	E	3170 mm	100 mm	500 mm
E06	5 NOS. 50X50 CABLE TRAY	E	2785 mm	100 mm	660 mm
E07	2 NOS. 50X50 CABLE TRAY	E	32100 mm	100 mm	250 mm



- BUILDERS WORK NOTES**
- 1.THE MEP BUILDERS WORK DRAWING DEMONSTRATES THE DESIGN INTENT OF THE BUILDING SERVICES WHICH PASS THROUGH THE SLABS / WALLS. THIS DRAWING SHALL BE USED FOR INFORMATION PURPOSES ONLY AND HAS BEEN DEVELOPED TO ASSIST THE MAIN CONTRACTOR IN SETTING OUT OF EACH PENETRATION.
 - 2.THE STRUCTURAL ENGINEER IS RESPONSIBLE FOR ENSURING THE MEP PENETRATIONS DO NOT ADVERSELY AFFECT THE STRUCTURAL INTEGRITY OF THE BUILDING.
 - 3.SHOULD A CHANGE IN OPENING POSITION BE REQUIRED, IT SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE MEP CONTRACTOR FOR REVIEW, COMMENT, AND CO-ORDINATION.
 - 4.IT SHALL BE THE RESPONSIBILITY OF THE MAIN CONTRACTOR TO PROVIDE ALL THE REQUIRED OPENINGS AS SHOWN ON THIS DRAWING AND ENSURE ALL PENETRATIONS ARE CORRECTLY POSITIONED AS SCHEDULED. THE MARKING OF ALL BUILDERS WORK IS BY THE MEP SUBCONTRACTOR.
 - 5.IF THE MAIN CONTRACTOR IS UNSURE OF ANY PENETRATION SIZE OR POSITION SHOWN HE SHOULD SEEK THE ASSISTANCE FROM THE MEP CONTRACTOR FOR CLARIFICATION. THE MAIN CONTRACTOR IS REQUESTED NOT TO ASSUME ANY ELEMENTS OF THE MEP BUILDERS WORK.
 - 6.CAST ELECTRICAL DUCTS AND CONDUIT WHICH RETICULATE WITHIN THE STRUCTURE ARE INDICATED ON SEPARATE DRAWINGS.
 - 7.ALL DIMENSIONS SHOWN ARE IN MILLIMETRES. USE THE INDICATED DIMENSIONS ONLY FOR SETTING OUT OF ALL BUILDERS WORK PENETRATIONS. DO NOT SCALE FROM THIS DRAWING UNDER ANY CIRCUMSTANCES.
 - 8.THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL SUPPORTING MEP BUILDERS WORK AND SERVICES DRAWINGS.
 - 9.FINAL LOCATION OF FLOOR DRAINS ARE SUBJECT TO RECEIPT OF FINAL TILING LAYOUT.
 - 10.ANY CIVIL WORK FOR CHAMBERS, SUMP PITS, MANHOLES, SAND TRAPS, TRENCHES, GULLY TRAPS, COVERS & ASSOCIATED BUILDERS WORK ARE BY CIVIL CONTRACTOR.

- SYMBOL/TAG REFERENCE NUMBER**
- M01 = MECHANICAL PENETRATION 01
 - E01 = ELECTRICAL PENETRATION 01
 - P01 = PLUMBING PENETRATION 01
 - F01 = FIRE PENETRATION 01
 - GD1 = L.P.G PENETRATION 01
 - CD1 = COMBINED PENETRATION 01
- SERVICES REFERENCE**
- C - COMBINED SERVICES
 - M - MECHANICAL
 - E - ELECTRICAL
 - D - DRAINAGE
 - W - WATER
 - F - FIRE SPRINKLER
 - GD - CONDENSATE DRAIN
 - G - L.P.G
- LOCATION REFERENCE**
- B - BEAM
 - S - SLAB
 - W - WALL

HLCE Comments:

- 1) Final approval is pending approval from the Structural Engineer and compliance with their comments.
- 2) Coordinate with comments on respective service shop drawing

NOTE:
ALL MEP OPENING LEVELS ARE TAKEN FROM SPECIFICALLY DEFINED REFERENCE LEVELS.
FF +5.490 (GND LEVEL +54.915) TO BOTTOM OF OPENINGS.

CERTIFICATION
THE CONTRACTOR CERTIFIES THAT THIS DRAWING HAS BEEN COORDINATED / CHECKED FOR COMPLIANCE WITH THE CONTRACT.

ENGINEER DOCUMENT REVIEW
Document reviewed for compliance with the design intent and to be checked for accuracy and suitability of program. This review does not release the contractor from his contractual obligations, nor does it substitute changes in the Contract Data Sheet.

☐ A - APPROVED
☒ B - APPROVED WITH COMMENTS
☐ C - REJECTED

REVIEWED BY DISCIPLINE	STATUS	SIGNATURE	DATE
Architectural	B	AZA	18/09/18
Structural	B	Ramy Sahar	18/09/18
Electrical	B	MS	17-Sep-18
Mechanical	B	RMSN	17-Sep-18
Plumbing	B	AP	17-Sep-18
Others			
SUBMITTAL / TRANSMITTAL NO		REV	DATE
1		18/09/18	

1-Lintel shall be provided on top of MEP opening as per structural drawings.
2-The openings are approved assuming that they are passing through block work and not clashing with any structural element.

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DO NOT SCALE THIS DRAWING.

KEY PLAN

MOBILITY DISTRICT



GENERAL NOTES:

DESIGN DRAWING REFERENCE	
DRAWING TITLE	REV. DATE

REVIT LINK REFERENCE MODEL	
DISCIPLINE	MODEL NUMBER
ARCHITECTURAL	60020-MDL-S105655-01-000033
STRUCTURAL	60020-MDL-S105655-02-000033

SAFETY, HEALTH AND ENVIRONMENT INFORMATION
Brief details on the identified hazard symbol referencing the unusual residual hazards / risks are listed below.

1	FIRST ISSUE	05/09/2018	DM	CHK	APR
No.	Explanatory Note	Date	Dra	Chk	Apr

CLIENT:



PROGRAMME/PROJECT MANAGEMENT CONSULTANT:



DESIGN CONSULTANT:



MAIN CONTRACTOR:



MEP Contractor:



Project:

THEMATIC DISTRICTS MAIN CONTRACTOR-60020

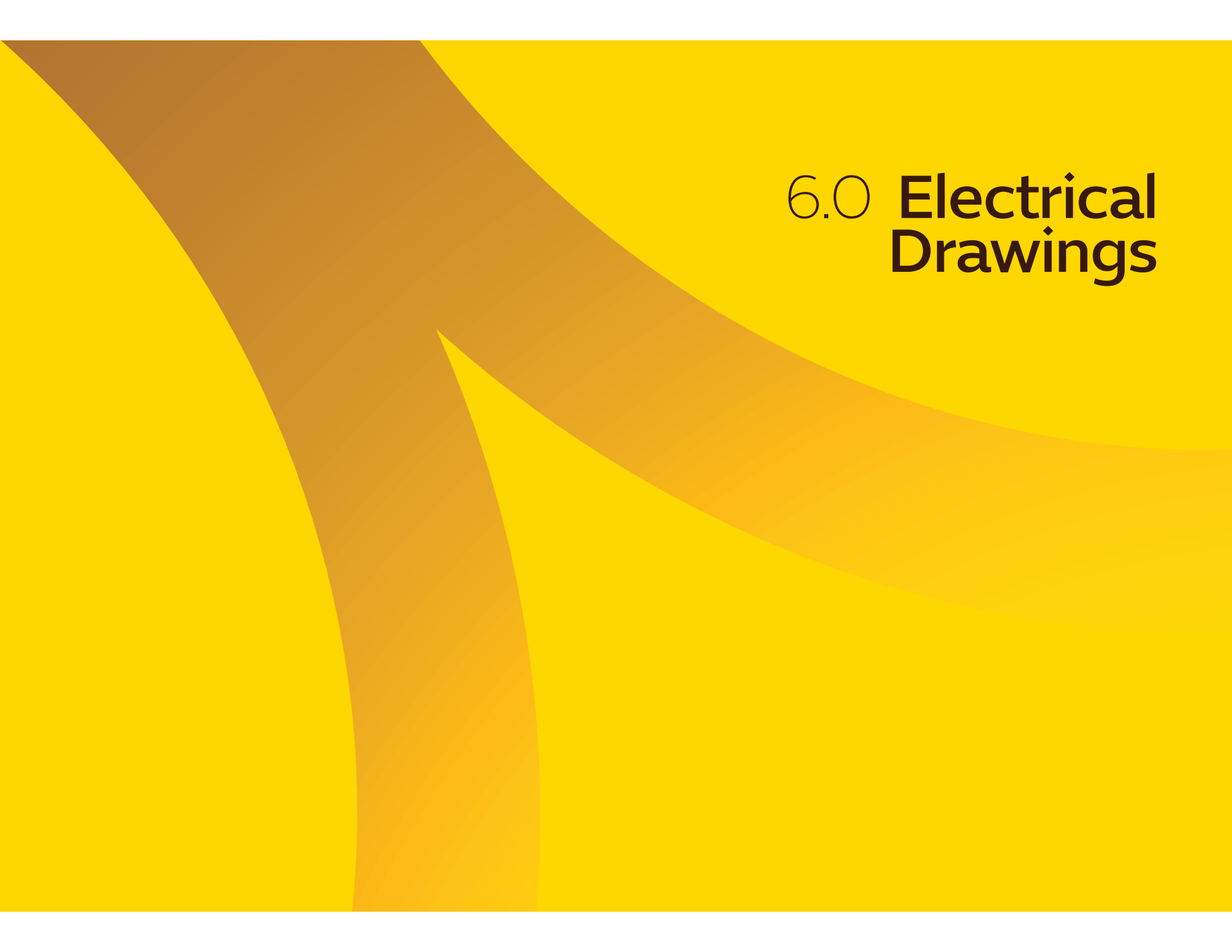
Drawing Title:

MOBILITY DISTRICT

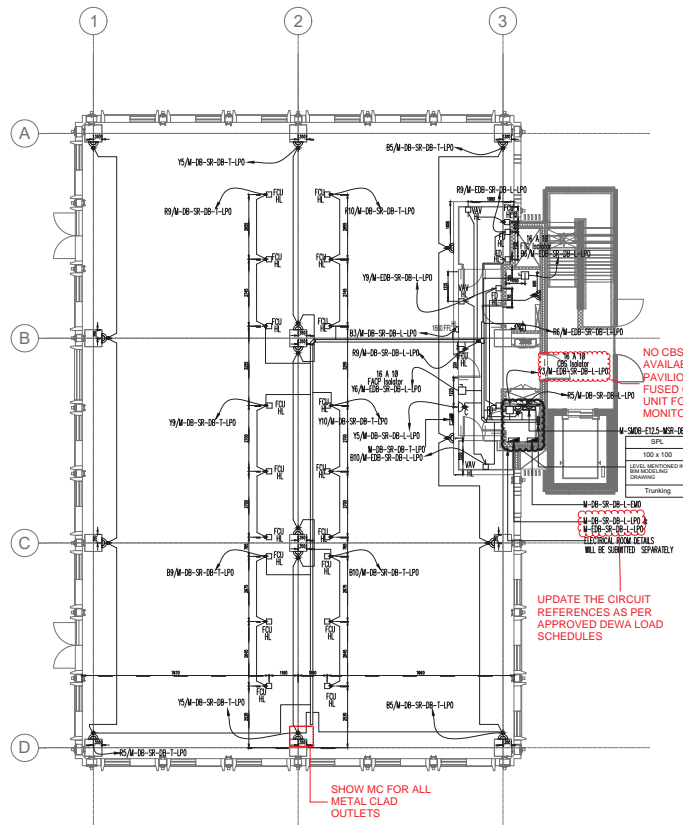
SPECIAL RENTED PAVILION

MSR - FIRST FLOOR - BUILDERS WORK MEP BLOCK WALL OPENING LAYOUT

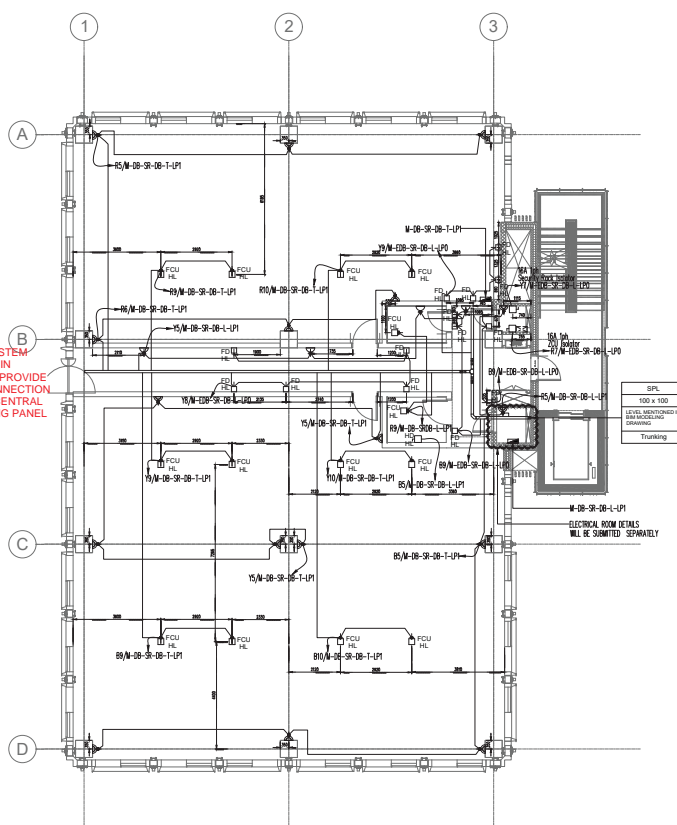
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Designated	1:100	SH	1
Model File Ref	Scale	As Indicated	1
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60020-MDL-S105655-02-000033	As Indicated		
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60020-MDL-S105655-99-000033	As Indicated		
60020-MDL-S105655-100-000033	As Indicated		



6.0 Electrical Drawings



1 GF - SMALL POWER LAYOUT S1 MSR
1: 100



2 01 - SMALL POWER LAYOUT S1 MSR
1: 100

COMMENTS

- ALL METAL CLAD TYPE OUTLETS TO BE USED GROUND FLOOR & IN BACK OF HOUSE AREAS
- DB REFERENCES TO BE IN LINE WITH DEWA APPROVED LOAD SCHEDULES
- MECHANICAL EQUIPMENT INFORMATION TO BE INCLUDED AS PER LATEST MECHANICAL DRAWINGS
- REFER TO FIRE PROTECTION DRAWINGS ALL POWER REQUIREMENTS RELATED TO LIFE SAFETY SYSTEMS
- POWER OUTLETS TO BE UPDATED AS PER MECHANICAL REQUIREMENTS
- PROVIDE UNSWITCHED FUSED CONNECTION FOR ALL ACS CONTROLLERS IN IDF ROOM
- ENSURE THE LATEST ARCHITECTURAL LAYOUTS ARE CONSIDERED & INCORPORATED

POWER LEGENDS AND ABBREVIATIONS		
SYMBOL	DESCRIPTION	HEIGHT
	13A, SWITCHED SOCKET OUTLET SINGLE	450mm FROM FFL
	13A, SWITCHED SOCKET OUTLET TWIN	450mm FROM FFL
	13A, SOCKET OUTLET SINGLE	450mm FROM FFL
	13A, SOCKET OUTLET TWIN	450mm FROM FFL
	13A, SWITCHED SOCKET OUTLET TWIN (WEATHERPROOF)	450mm FROM FFL
	SWITCHED FUSED CONNECTION UNIT WITH NEON INDICATOR	H/L0 CEILING
	13A UN-SWITCHED FUSED CONNECTION UNIT WITH NEON INDICATOR	H/L0 CEILING
	13A UN-SWITCHED FUSED CONNECTION UNIT	H/L0 CEILING
	13A SWITCHED FUSED SPUR	450mm FROM FFL
	13A SWITCHED FUSED SPUR (FLEX OUTLET)	450mm FROM FFL
	TP&M COMMANDO SOCKET OUTLET	450mm FROM FFL
	TP&M COMMANDO SWITCHED SOCKET OUTLET	450mm FROM FFL
	SP&M COMMANDO SOCKET OUTLET	450mm FROM FFL
	SP&M COMMANDO SWITCHED SOCKET OUTLET	450mm FROM FFL
	TYPE 'A' THREE COMPARTMENT FLOOR BOX WITH 2nos TWIN 13A SWITCHED SOCKET OUTLETS & 8nos R&S OUTLETS	
	TYPE 'B' THREE COMPARTMENT FLOOR BOX WITH 2nos TWIN 13A SWITCHED SOCKET OUTLETS & 8nos R&S OUTLETS	
	TYPE 'C' THREE COMPARTMENT FLOOR BOX WITH 1no TWIN 13A SWITCHED SOCKET OUTLETS, 1no 15MW / 1no 15A & 2nos R&S OUTLETS	
	TYPE 'D' THREE COMPARTMENT FLOOR BOX WITH 1no TWIN 13A SWITCHED SOCKET OUTLETS, SPARE COMPARTMENT & 2nos R&S OUTLETS	
	TYPE 'E' THREE COMPARTMENT FLOOR BOX WITH 2nos TWIN 13A SWITCHED SOCKET OUTLETS & 8nos R&S OUTLETS	
	TP&M ISOLATOR	1400mm FROM FFL
	SP&M ISOLATOR	1400mm FROM FFL
	GI TRUNKING	
	25mm CONDUIT FOR SMALL POWER	

ABBREVIATION TAGGING

5200-01-002-508-LF-008-000
ASSET FLOOR ROOM SYSTEM UNIQUE NO.

FLOOR	GROUP	TYPE
CHBU	CENTRAL BATTERY UNIT	
CHP	CENTRAL PIT	
CTRL	CONTROL PANEL	
ATRS	AUTOMATIC TRANSFER SWITCH	
ELSP	ESSENTIAL SERVICE PANEL	
GENR	GENERATOR	
SWPA	SWITCH PANEL	
TRPU	TRANSFORMER UNIT	
DISB	DISTRIBUTION BOARD	
QMB	MAIN DISTRIBUTION BOARD	
MCC	MOTOR CONTROL CENTRE	
UNPS	UNINTERRUPTIBLE POWER SUPPLY	
MCP	MAIN INCOMER PANEL	
PCU	POWER FACTOR CORRECTION UNIT	
FARP	FIRE ALARM REPEATER PANEL	
JCP	JOCKEY PUMP	
DRAS	DOOR ACCESS SYSTEM	
BOBU	BACK GROUND MUSIC UNIT	
BOMS	BUILDING MANAGEMENT SYSTEM	
CCTV	CCTV SYSTEM	
FRAP	FIRE ALARM PANEL	
PAHU	PANIC ALARM UNIT	
LCUT	LIGHTING CONTROL UNIT	
PAVA	PAVA UNIT	
CHAP	CHILLER PUMP	
IFM	INTERMEDIATE DISTRIBUTION FRAME	
MDM	MAIN DISTRIBUTION FRAME	
HVCP	FOULS/STOIX UNIT CONTROL PANEL	
DOOR	DOOR PANEL FOR ALL SYSTEMS	
MSFD	MOTORISED SMOKE FIRE DAMPER	
MSFP	MOTORISED SMOKE DAMPER	
BPMP	BOOSTER PUMP	
TPMP	TRANSFER PUMP	
ACSU	AC SPLIT UNIT	
CCU	CLOSE CONTROL UNIT	
ECU	ECOLOGY UNIT	
HAUT	AIR HANDLING UNIT	
FCUT	FAN COIL UNIT	
VAVB	VARIABLE AIR VOLUME BOX	
EXAF	EXTRACT AIR FAN	
FARF	FRESH AIR FAN	
FERF	FUME EXTRACT FAN	
KEF	KITCHEN EXTRACT FAN	
SEF	SMOKE EXTRACT FAN	
FRF	FRESH AIR EXTRACT FAN	
DFRP	DIESEL FIRE PUMP	
ETRP	ELECTRIC FIRE PUMP	

ABBREVIATION

AFFL	ABOVE FINISHED FLOOR LEVEL
DB	DISTRIBUTION BOARD
DMC	DRAWING
F/A	FROM ABOVE
F/B	FROM BELOW
G	GALVANIZED IRON
HL	HIGH LEVEL AT TOP OF CEILING
mm	MILLIMETERS
N.T.S	NOT TO SCALE
No.	NUMBER
LSF	LOW SMOKE AND FUMES
T/A	TO ABOVE
T/B	TO BELOW
WP	WEATHER PROOF
&	AND
Ø	DIAMETER
#	NUMBER

SUPERSCRIP & SUBSCRIPT EXPLANATION:

C	CEILING MOUNTED
P	PENDANT MOUNTED
S	SPRINT MOUNTED
MC	METAL FINISH AS PER ID
WPC	WHITE POLYCARBONATE
WPP	WEATHER PROOF
HPP	HIGH IMPACT RESISTANT POLYCARBONATE

CERTIFICATION

THE CONTRACTOR CERTIFIES THAT THIS DRAWING HAS BEEN COORDINATED, CHECKED FOR COMPLIANCE WITH THE CONTRACT REQUIREMENTS AND IS ACCURATE.

ENGINEER DOCUMENT REVIEW

Document reviewed for compliance with the design concept and is not intended for issuance or liability of purpose. This review does not release the contractor from his contractual obligations, nor does it authorize changes to the Contract Base Program.

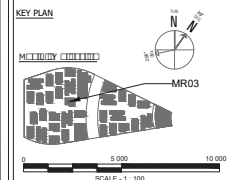
☐ A. APPROVED

☒ B. APPROVED WITH COMMENTS

☐ C. REJECTED

REVIEWED BY DISCIPLINE	STATUS	SIGNATURE	DATE
Architectural	B	AZA	07/05/2018
Civil/Municipality			
Electrical	B	TT	06/05/2018
Mechanical			
Plotting			
Others			
SUBMITTAL / TRANSMITTAL NO.	REV		
ENGINEER / PROJECT ARCHITECT			
Signat			DATE: 07/05/2018

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GENERAL NOTES:

1. ALL THE LATEST DEWA REGULATION SHOULD BE COMPLIED
2. REFER TO DRAWING NO. 60020-SDW-S105600-EL-800049 FOR ELECTRICAL SYMBOLS & LEGENDS.
3. CONDUIT UP TO 35mm TO FINAL OUTLETS FOR SMALL POWER, LIGHTING, COWING, FIRE ALARM AND SECURITY SERVICES TO BE SIZED AS PER DEWA REGULATIONS (APPENDIX 15). GALVANIZED STEEL CONDUIT TO BE USED IN EXHIBITION AREAS, STAIRWELLS AND EXTERNAL AREAS. LSF CONDUIT TO BE USED IN OTHER AREAS.
4. POWER SUPPLIES TO VAV CONTROLLERS AND MOTORISED DAMPERS, SHALL BE BY A FUSED CONNECTION UNIT ADJACENT TO EACH ITEM OF EQUIPMENT.
5. REFER TO THE VENTILATION LAYOUTS FOR EQUIPMENT LOCATION AND TO THE DISTRIBUTION BOARD SCHEDULES FOR THE CIRCUIT REFERENCES.
6. LOCATION OF WIRING DEVICES FEEDING TO EQUIPMENTS SHALL BE COORDINATE WITH ACTUAL LOCATION OF RESPECTIVE EQUIPMENT.

101	EL	A	1000-TW-5105600-EL-20000
101	EL	A	1000-TW-5105600-EL-20000
101	EL	A	1000-TW-5105600-EL-20000
101	EL	A	1000-TW-5105600-EL-20000
101	EL	A	1000-TW-5105600-EL-20000
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101	EL	A	1000-TW-5105600-EL-20000
101	EL	A	1000-TW-5105600-EL-20000

REFERENCE IFC DRAWINGS:

No.	Description
-----	-------------

SAFETY, HEALTH AND ENVIRONMENT INFORMATION
Brief details on the identified hazard symbol referencing the uncontrolled residual hazards / risks are listed above.

REVISIONS

No.	Description	Rev.	Date	By	CHK	APP
1	ISSUED FOR TENDERS	20-04-2018	VJ	MH		
2	FOR CONSTRUCTION	20-04-2018	VJ	MH		
3	FOR CONSTRUCTION	20-04-2018	VJ	MH		
4	FOR CONSTRUCTION	20-04-2018	VJ	MH		
5	FOR CONSTRUCTION	20-04-2018	VJ	MH		
6	FOR CONSTRUCTION	20-04-2018	VJ	MH		
7	FOR CONSTRUCTION	20-04-2018	VJ	MH		
8	FOR CONSTRUCTION	20-04-2018	VJ	MH		
9	FOR CONSTRUCTION	20-04-2018	VJ	MH		
10	FOR CONSTRUCTION	20-04-2018	VJ	MH		

CLIENT:



PROGRAMME/PROJECT MANAGEMENT CONSULTANT:



DESIGN CONSULTANT:



MAIN CONTRACTOR:



MEP Contractor:



THEMATIC DISTRICTS MAIN CONTRACTOR-60020

Project:

THEMATIC DISTRICTS MAIN CONTRACTOR-60020

Drawing Title:

MOBILITY DISTRICT SPECIAL RENTED PAVILION - MSR

GROUND FLOOR OPTION S1 & FIRST FLOOR OPTION S1

SMALL POWER LAYOUT

Discipline	Author	Checked	Scale	Revision No.	Revision Date
Electrical	AK		1:100	1	20-04-2018
M&E					
Design					
Drawn					
Model File Ref.	Scale	41/504841			
60020-ADL-S105600-BB-000334	Scale	1:100			
Revision No.					
60020-SDW-S105600-EL-200003					



7.0 Fire Protection Drawings



60020-SDW-S105655-FP-200001

SIGNALING CAPABILITY FOR TABLE 10.10.1.20.1 AND TECHNICAL PROTECT CATEGORY					
WAVEFORM	MINIMUM PULSE WIDTH	MINIMUM DISTANCE BETWEEN SIGNALS TO SIGNALMAN	MINIMUM DISTANCE BETWEEN SIGNALS TO SIGNALMAN	MINIMUM DISTANCE BETWEEN SIGNALS TO SIGNALMAN	MINIMUM DISTANCE BETWEEN SIGNALS TO SIGNALMAN
100%T	2mV	1.0m	4.0m	0.10m	1.2m
100%T	15mV	1.0m	4.0m	0.10m	1.2m

SIGNALING CAPABILITY FOR TABLE 10.10.1.20.2					
OCCUPANCY	TYPE OF SIGNALMAN	OCCUPANCY CLASSIFICATION	AREA COVERAGE	SIGNALLED TEMPERATURE °C	ACTIONAL RESPONSE
100%T	100%T	100%T	1.0m	0°	1.0-1.0m

SIGNALING CAPABILITY FOR TABLE 10.10.1.20.3					
OCCUPANCY	TYPE OF SIGNALMAN	OCCUPANCY CLASSIFICATION	AREA COVERAGE	SIGNALLED TEMPERATURE °C	ACTIONAL RESPONSE
100%T	100%T	100%T	1.0m	0°	1.0-1.0m

PIPE HANGER DESIGN (AS PER NFPA TABLE 9.2.2.10)					
SL.NO.	PIPE SYSTEM	HORIZONTAL PIPE		WANGER SUPPORT	SUPPORT SPACING(MM)
		THREADED ROD SECTION	DIA OF BOLT (MM)		
1	E25	M10	M10	ADJUSTABLE HANGER	1.86 M
2	E32	M10	M10	ADJUSTABLE HANGER	1.86 M
3	E40	M10	M10	ADJUSTABLE HANGER	4.57 M
4	E50	M10	M10	ADJUSTABLE HANGER	4.57 M
5	E65	M10	M10	ADJUSTABLE HANGER	4.57 M
6	E80	M10	M10	ADJUSTABLE HANGER	4.57 M
7	D100	M10	M10	ADJUSTABLE HANGER	4.57 M
8	D150	M12	M12	ADJUSTABLE HANGER	4.57 M

FILE C:\BODIPART\ASME\TWO TUBES\REQUIREMENTS

PIPE DIA MM	LIGHT HAZARD	SIZE OF BOLT (MM)	HANGER SUPPORT
25 MM	2	2	2
32 MM	3	3	4
40 MM	5	5	7
50 MM	10	10	15
65 MM	30 or AS PER HYDRAULIC CALCULATION	20 or AS PER HYDRAULIC CALCULATION	30 or AS PER HYDRAULIC CALCULATION
80 MM	40 or AS PER HYDRAULIC CALCULATION	30 or AS PER HYDRAULIC CALCULATION	40 or AS PER HYDRAULIC CALCULATION
100 MM	100 or AS PER HYDRAULIC CALCULATION	100 or AS PER HYDRAULIC CALCULATION	100 or AS PER HYDRAULIC CALCULATION
150 MM	230 or AS PER HYDRAULIC CALCULATION	275 or AS PER HYDRAULIC CALCULATION	300 or AS PER HYDRAULIC CALCULATION

CERTIFICATION			
THE CONTRACTOR CERTIFIES THAT THIS DRAWING HAS BEEN EXAMINED AND APPROVED FOR COMPLIANCE WITH THE CONTRACT			
ENGINEER DOCUMENT REVIEW			
Document examined for compliance with the design concept and it is certified that no substantial changes of purpose. This review does not release the contractor from his contractual obligations, nor does it authorize changes in the Contract Form Attachment			
<input checked="" type="checkbox"/>	A	APPROVED	
<input type="checkbox"/>	C	APPROVED WITH COMMENTS	
<input type="checkbox"/>	R	REJECTED	
REVIEWED BY DISCIPLINE	STATUS	SIGNATURE	DATE
Architectural (A)		A	18/09/16
Structural (S) (as contract)			
Division (as contract)	N/A		
Electrical (Phase Lead)	N/A		
Mechanical (Phase Lead)			17-Sep-16
Plumbing (Phase Lead)			
Others			
SUBMITTAL / TRANSMITTAL	REV		
BY ENGINEER	FOR PROJECT/CLIENT		18/09/16



8.0 Ventilation System Drawings

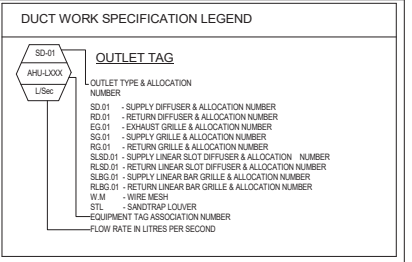
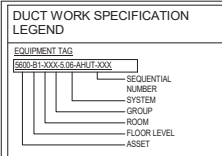
SERIAL NO.	SEQUENCE NO.	ITEM TYPE	SHEET TITLE	ASSOCIATED LEVEL	CHN LHS/RHS	QTY
1	01	FOUT	MSR	GF	RHS	1
2	02	FOUT	MSR	GF	RHS	1
3	03	FOUT	MSR	GF	RHS	1
4	04	FOUT	MSR	GF	RHS	1
5	05	FOUT	MSR	GF	RHS	1
6	06	FOUT	MSR	GF	RHS	1
7	07	FOUT	MSR	GF	RHS	1
8	08	FOUT	MSR	GF	LHS	1
9	09	FOUT	MSR	GF	LHS	1
10	10	FOUT	MSR	GF	LHS	1
11	11	FOUT	MSR	GF	LHS	1
12	12	FOUT	MSR	GF	LHS	1
13	13	FOUT	MSR	GF	LHS	1
14	14	FOUT	MSR	GF	LHS	1
15	15	FOUT	MSR	GF	LHS	1
16	16	FOUT	MSR	GF	RHS	1
17	17	FOUT	MSR	GF	RHS	1
18	18	FOUT	MSR	GF	RHS	1
19	19	FOUT	MSR	GF	RHS	1
20	20	FOUT	MSR	GF	RHS	1
21	21	FOUT	MSR	GF	RHS	1
22	22	FOUT	MSR	GF	RHS	1
23	23	FOUT	MSR	GF	RHS	1
24	24	FOUT	MSR	GF	RHS	1
25	25	FOUT	MSR	GF	RHS	1
26	26	FOUT	MSR	GF	RHS	1
27	27	FOUT	MSR	GF	RHS	1
28	28	FOUT	MSR	GF	RHS	1
29	29	FOUT	MSR	GF	RHS	1
30	30	FOUT	MSR	GF	RHS	1
31	31	FOUT	MSR	GF	RHS	1
32	32	FOUT	MSR	GF	RHS	1
33	33	FOUT	MSR	GF	RHS	1
34	34	FOUT	MSR	GF	RHS	1
35	35	FOUT	MSR	GF	RHS	1
36	36	FOUT	MSR	GF	RHS	1
37	37	FOUT	MSR	GF	RHS	1
38	38	FOUT	MSR	GF	RHS	1
39	39	FOUT	MSR	GF	RHS	1
40	40	FOUT	MSR	GF	RHS	1
41	41	FOUT	MSR	GF	RHS	1
42	42	FOUT	MSR	GF	RHS	1
43	43	FOUT	MSR	GF	RHS	1
44	44	FOUT	MSR	GF	RHS	1
45	45	FOUT	MSR	GF	RHS	1
46	46	FOUT	MSR	GF	RHS	1
47	47	FOUT	MSR	GF	RHS	1
48	48	FOUT	MSR	GF	RHS	1
49	49	FOUT	MSR	GF	RHS	1
50	50	FOUT	MSR	GF	RHS	1
51	51	FOUT	MSR	GF	RHS	1
52	52	FOUT	MSR	GF	RHS	1
53	53	FOUT	MSR	GF	RHS	1
54	54	FOUT	MSR	GF	RHS	1
55	55	FOUT	MSR	GF	RHS	1
56	56	FOUT	MSR	GF	RHS	1
57	57	FOUT	MSR	GF	RHS	1
58	58	FOUT	MSR	GF	RHS	1
59	59	FOUT	MSR	GF	RHS	1
60	60	FOUT	MSR	GF	RHS	1
61	61	FOUT	MSR	GF	RHS	1
62	62	FOUT	MSR	GF	RHS	1
63	63	FOUT	MSR	GF	RHS	1
64	64	FOUT	MSR	GF	RHS	1
65	65	FOUT	MSR	GF	RHS	1
66	66	FOUT	MSR	GF	RHS	1
67	67	FOUT	MSR	GF	RHS	1
68	68	FOUT	MSR	GF	RHS	1
69	69	FOUT	MSR	GF	RHS	1
70	70	FOUT	MSR	GF	RHS	1
71	71	FOUT	MSR	GF	RHS	1
72	72	FOUT	MSR	GF	RHS	1
73	73	FOUT	MSR	GF	RHS	1
74	74	FOUT	MSR	GF	RHS	1
75	75	FOUT	MSR	GF	RHS	1
76	76	FOUT	MSR	GF	RHS	1
77	77	FOUT	MSR	GF	RHS	1
78	78	FOUT	MSR	GF	RHS	1
79	79	FOUT	MSR	GF	RHS	1
80	80	FOUT	MSR	GF	RHS	1
81	81	FOUT	MSR	GF	RHS	1
82	82	FOUT	MSR	GF	RHS	1
83	83	FOUT	MSR	GF	RHS	1
84	84	FOUT	MSR	GF	RHS	1
85	85	FOUT	MSR	GF	RHS	1
86	86	FOUT	MSR	GF	RHS	1
87	87	FOUT	MSR	GF	RHS	1
88	88	FOUT	MSR	GF	RHS	1
89	89	FOUT	MSR	GF	RHS	1
90	90	FOUT	MSR	GF	RHS	1
91	91	FOUT	MSR	GF	RHS	1
92	92	FOUT	MSR	GF	RHS	1
93	93	FOUT	MSR	GF	RHS	1
94	94	FOUT	MSR	GF	RHS	1
95	95	FOUT	MSR	GF	RHS	1
96	96	FOUT	MSR	GF	RHS	1
97	97	FOUT	MSR	GF	RHS	1
98	98	FOUT	MSR	GF	RHS	1
99	99	FOUT	MSR	GF	RHS	1
100	100	FOUT	MSR	GF	RHS	1

SERIAL NO.	ITEM TYPE	SEQUENCE NO.	BUILDING NO.	SIZE	ASSOCIATED LEVEL	QTY
1	ATTN	01	MSR	315x315x	GF	1
2	ATTN	02	MSR	315x315x	GF	1
3	ATTN	03	MSR	600x250x500x250	GF	1
4	ATTN	04	MSR	150x150x150	GF	1
5	ATTN	05	MSR	500x500x500x250	GF	1
6	ATTN	06	MSR	150x150x150x150	GF	1
7	ATTN	07	MSR	350x350x350x250	GF	1
Grand total:						7

SERIAL NO.	ITEM TYPE	SEQUENCE NO.	BUILDING NO.	SIZE	ASSOCIATED LEVEL	QTY
1	VCD	01	MSR	280x280x	GF	1
2	VCD	02	MSR	224x224x	GF	1
3	VCD	03	MSR	224x224x	GF	1
4	VCD	04	MSR	224x224x	GF	1
5	VCD	05	MSR	224x224x	GF	1
6	VCD	06	MSR	224x224x	GF	1
7	VCD	07	MSR	280x280x	GF	1
8	VCD	08	MSR	224x224x	GF	1
9	VCD	09	MSR	224x224x	GF	1
10	VCD	10	MSR	224x224x	GF	1
11	VCD	11	MSR	150x150x	GF	1
12	VCD	12	MSR	150x150x	GF	1
13	VCD	13	MSR	150x150x	GF	1
14	VCD	14	MSR	600x250x500x250	GF	1
15	VCD	15	MSR	150x150x150x150	GF	1
16	VCD	16	MSR	150x150x150x150	GF	1
Grand total:						16

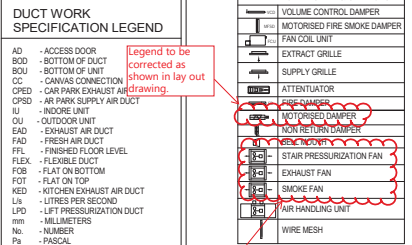
SERIAL NO.	FIRE DAMPER	SEQUENCE NO.	BUILDING NO.	SIZE	ASSOCIATED LEVEL	QTY
1	FRDP	01	MSR	554x442-554x442-500x350-500x350	GF	1
2	FRDP	02	MSR	554x442-554x442-500x400-500x400	GF	1
3	FRDP	03	MSR	404x387-404x387-350x350-350x350	GF	1
4	FRDP	04	MSR	654x332-654x332-600x250-600x250	GF	1
5	FRDP	05	MSR	654x332-654x332-600x250-600x250	GF	1
6	FRDP	06	MSR	150x150x	GF	1
7	FRDP	07	MSR	150x150x	GF	1
8	FRDP	08	MSR	280x280x	GF	1
9	FRDP	09	MSR	304x332-304x332-250x250-250x250	GF	1
10	FRDP	10	MSR	404x387-404x387-350x350-350x350	GF	1
Grand total:						10

SERIAL NO.	SEQUENCE NO.	SHEET TITLE	SIZE	ASSOCIATED LEVEL	ITEM TYPE	QTY
1	01	MSR	224x	GF	AHUT	1
2	02	MSR	224x	GF	AHUT	1
3	03	MSR	224x	GF	AHUT	1
4	04	MSR	224x	GF	AHUT	1
5	05	MSR	224x	GF	AHUT	1
6	06	MSR	280x	GF	AHUT	1
7	07	MSR	224x	GF	AHUT	1
8	08	MSR	224x	GF	AHUT	1
9	09	MSR	280x	GF	AHUT	1
10	10	MSR	224x	GF	AHUT	1
11	11	MSR	800x600	GF	AHUT	1
12	12	MSR	150x150	GF	AHUT	1
13	13	MSR	600x250	GF	AHUT	1
14	14	MSR	150x150	GF	AHUT	1
15	15	MSR	600x250	GF	AHUT	1
16	01	MSR	150x	GF	FOUT	1
17	02	MSR	150x	GF	FOUT	1
18	03	MSR	150x	GF	FOUT	1
19	04	MSR	150x	GF	FOUT	1
20	05	MSR	150x	GF	FOUT	1
21	06	MSR	250x250	GF	FOUT	1
Grand total:						21



DUCTWORK MATERIAL	THERMAL INSULATION/PRESSURE CLASSIFICATION	EXTERNAL CLADDING	FIRE COATING
GI = GALVANISED STEEL SS = STAINLESS STEEL MS = MILD STEEL PI = PRE-INSULATED	NO INSULATION PI = PRE-INSULATED ER = ELASTOMERIC RUBBER IS = INSULATION HP = HIGH PRESSURE RW = ROCKWOOL	LP = LOW PRESSURE MP = MEDIUM PRESSURE AC = 0.7mm PLAIN ALUMINIUM CLADDING HP = HIGH PRESSURE RW = ROCKWOOL	NO FIRE COATING 2hr = 2 HOUR FIRE COATING

- ERV INSULATION FOR DUCTWORK WITHIN A CONDITIONED SPACE
13mm ELASTOMERIC RUBBER INSULATION WITH A DENSITY OF 48kg/m³ AND THERMAL CONDUCTIVITY NOT EXCEEDING 0.035W/m²K, WITH ALUMINIUM FOIL FACE
 - ERV INSULATION FOR EXPOSED DUCTWORK IN AMBIENT CONDITIONS
6mm ELASTOMERIC RUBBER INSULATION WITH A DENSITY OF 48kg/m³ AND THERMAL CONDUCTIVITY NOT EXCEEDING 0.035W/m²K, WITH ALUMINIUM FOIL FACE
- EXTERNAL CLADDING:
 AC = INSULATED DUCTWORK IN PLANT ROOMS AND EXPOSED ROOF AREAS SHALL BE 0.7mm PLAIN ALUMINIUM SHEET.



NOTE: ALL DUCT WORK LEVELS ARE TAKEN FROM SPECIFICALLY DEFINED REFERENCE LEVELS.
 GF +0.000 (IND LEVEL +28.325) TO BOTTOM OF DUCT WORK.

CERTIFICATION

THE CONTRACTOR CERTIFIES THAT THIS DRAWING HAS BEEN COORDINATED FOR COMPLIANCE WITH THE CONTRACT.

ENGINEER DOCUMENT REVIEW

Document reviewed for compliance with the design contract and not intended for use for any other purpose. The reviewer is not responsible for the contractor's compliance with the contract terms and conditions.

☐ APPROVED
☒ APPROVED WITH COMMENTS
☐ REJECTED

ENGINEER DOCUMENT REVIEW

REVIEWED BY DISCIPLINE STATUS SIGNATURE DATE

Architectural B ALA 15/08/18
 Structural N/A
 Mechanical B RMSN 12-Aug-18
 Plumbing N/A

SUBMITTAL / TRANSMITTAL NO. REV. AS indicated

ENGINEER SIGNATURE DATE 15/08/18

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KEY PLAN

MOBILITY DISTRICT

GENERAL NOTES:

- DUCTWORK SIZES SHOWN ON DRAWINGS INDICATES CLEAR INSIDE DIMENSIONS EXCLUDING INSULATION OR LINING.
- ALL FIRE DAMPERS LESS THAN 2000mm in DIMENSION SHALL HAVE 500mm REMOVABLE DUCTWORK SECTIONS FOR ACCESS.
- ALL REMAINING FIRE DAMPERS SHALL BE PROVIDED WITH ACCESS COPS.
- FINAL LOCATIONS FOR AIR OUTLETS SHALL BE AS PER APPROVED REFLECTED CEILING LAYOUT.
- ALL CARPARK EXTRACT DUCTWORK SHALL BE HIGH PRESSURE DUCT WORK.
- ALL FIRE RATED DUCTWORK WILL BE PROVIDED WITH FIRE RATED GASKETS.
- DUCT STIFFENERS TO BE APPLIED ON ALL DUCTS WITH AN ASPECT RATIO GREATER THAN 4:1
- ALL DUCT BOTTOM LEVELS ARE MEASURED FROM FFL UNLESS OTHERWISE NOTED.

DESIGN DRAWING REFERENCE

DRAWING TITLE	DRAWING NUMBER	REV	DATE
VENTILATION	10025-MDL-S10555-01-00000	A	05/10/2017
VENTILATION	10025-MDL-S10555-01-00001	B	05/11/2017

REVIT LINK REFERENCE MODEL

DISCIPLINE	MODEL NUMBER	DATE
ARCHITECTURAL	10025-MDL-S10555-01-00000	05/10/2017
STRUCTURAL	10025-MDL-S10555-01-00001	05/11/2017

SAFETY, HEALTH AND ENVIRONMENT INFORMATION

Brief details on the identified hazard symbol referencing the current residual hazard levels. Risks are listed below.

No.	ISSUE	DATE	BY	CHK	APP
1	FIRST ISSUE	01/08/2018	NA	MD	SL
2	FIRST ISSUE (ADP)	01/08/2018	NA	MD	SL

CLIENT: EXPO 2020

PROGRAMME/PROJECT MANAGEMENT CONSULTANT: ch2m mace

DESIGN CONSULTANT: Hopkins Architects

MAIN CONTRACTOR: Al-Futtaim

MEP Contractor: Al-Futtaim engineering

PROJECT: THEMATIC DISTRICTS MAIN CONTRACTOR-60020

Drawing Title: MOBILITY DISTRICT SPECIAL RENTED PAVILION

MSR - GROUND FLOOR - VENTILATION LAYOUT

Approved	Checked	Scale	Date
SL	MD	N/A	05/05/2018
Designated	Drawn	Checked	
NA	NA	MG	
Model File Ref.	Scale	Revision No.	
10025-MDL-S10555-01-00003	As indicated	2	





9.0 Mechanical Drawings

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DO NOT SCALE THIS DRAWING.

KEY PLAN

MOBILITY DISTRICT



SCALE: 1 : 100

GENERAL NOTES:

- PIPEWORK DIMENSIONS ARE IN MILLIMETERS.
- PIPEWORK SIZES SHOWN ON DRAWINGS INDICATES NOMINAL SIZES EXCLUDING INSULATION.
- AUTOMATIC AIR VENTS TO BE INSTALLED ON ALL CHW FLOW & RETURN PIPE WORK WHERE PIPE WORK FORMS AN AIRLOCK.
- ALL PIPE BOTTOM LEVEL ARE MEASURED FROM FFL UNLESS OTHERWISE NOTED.

DESIGN DRAWING REFERENCE

DRAWING TITLE	DRAWING NUMBER	REV	DATE
PIPE SERVICE	10026-DWG-S105655-ME-20101	A	03/10/2017
SCHEMATIC	10026-DWG-S105655-ME-60001	A	03/10/2017

REVIT LINK REFERENCE MODEL

DISCIPLINE	MODEL NUMBER	DATE
STRUCTURAL	10000-ME-S105655-AR-00003	
MECHANICAL	60000-ME-S105655-AR-00003	

SAFETY, HEALTH AND ENVIRONMENT INFORMATION
Brief details on the identified hazard symbol referencing the unusual residual hazards / risks are listed below.

No.	Explanatory Note	Date	Chk	Chk	App
1	FIRST ISSUE	01/08/2018	NA	MD	SL
2	FIRST ISSUE (ADP)	03/05/2018	MD	MD	MD

CLIENT:



PROGRAMME/PROJECT MANAGEMENT CONSULTANT:



DESIGN CONSULTANT:



MAIN CONTRACTOR:



MEP-Contractor:



Project: THEMATIC DISTRICTS MAIN CONTRACTOR-60020

Drawing Title: MOBILITY DISTRICT

SPECIAL RENTED PAVILION

MSR - FIRST FLOOR - CHILLED WATER LAYOUT

Approved: SL

Design: N/A

Model File Ref: 60020-ME-S105655-ME-00003

Scale: A1(50x40)

As indicated

Revision No: 2

60020-SDW-S105655-ME-201001

PIPE SIZE (mm)	MAXIMUM SUPPORT SPACING (m)	NOMINAL ROD DIAMETER (mm)
20	2.1	M10
25	2.1	M10
32	2.1	M10
40	2.7	M10
50	3	M10
65	3.4	M12
80	3.7	M12
100	4.3	M16
150	5.2	M20
200	5.8	M20
250	6.7	M20
300	7	M20
350	7.6	M24
400	8.2	M24
450	8.5	M24
500	9.1	M30
600	9.8	M30

- SUPPORT SPACING TAKEN FROM ANSI, SS SP-60-20
- ALL SUPPORTS FOR PIPEWORK SIZES 100MM AND ABOVE IS SUBJECT TO STRESS ANALYSIS.

SYMBOL	DESCRIPTION
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY

EQUIPMENT TAG LEGEND:

EQUIPMENT TAG
EQD-S1XXX-S-01-AC-AHUT-XXX
SEQUENTIAL NUMBER
SYSTEM
GROUP
ROOM
FLOOR
LEVEL
ASSET
AHUT - AIR HANDLING UNIT
CHWP - CHILLED WATER PUMP
CCTU - CLOSE CONTROL UNIT
FAHUT - FRESH AIR HANDLING UNIT
FCU - FAN COIL UNIT
ACSU - AC SPLIT UNIT
HEXP - HEAT EXCHANGER PLATE
MAHUT - MAKEUP AIR HANDLING UNIT
PICV - PRESSURE INDEPENDENT CONTROL VALVE
P2PS - PRESSURIZATION UNIT/PUMP SET
LS - DOOR OR WINDOW LIMIT SWITCH
PU - PRESSURIZATION UNIT
STR - STRAINER
TH - THERMOMETER
TP - TEST POINT
VOIRY - VARIABLE ORIFICE DOUBLE REGULATING VALVE
D - DIAMETER
F/A - FROM ABOVE
F/B - FROM BELOW
T/A - TO ABOVE
T/B - TO BELOW

CHILLED WATER PIPES SPECIFICATION:

- PIPE MATERIAL:
- CHILLED WATER PIPES 50mm AND SMALLER ARE BLACK STEEL PIPE, ASTM A53 (ERW), SCHEDULE 40, GRADE-B.
 - CHILLED WATER PIPES 65mm AND ABOVE ARE BLACK STEEL, ASTM A53 (ERW), SCHEDULE STANDARD, GRADE-B.
 - FITTINGS UP TO DN60 ARE MALLEABLE IRON THREADED FITTINGS (BS A53 & BS 1259:1985).
 - FITTINGS DN65 AND LARGER ARE CARBON STEEL BUTT WELDED FITTINGS (ANSI B16.25).
 - COPPER TUBE ASTM B-280 & TYPE L, ACR ASTM B-280 HARD COPPER PIPES (REFRIGERATION PIPEWORK).
- THERMAL INSULATION:
- INSULATION FOR PIPEWORK WITHIN NON-AIR CONDITIONED SPACE
CLOSED CELL ELASTOMERIC RUBBER INSULATION (48kg/m³), WITH ALUMINUM FOIL FACE AND THERMAL CONDUCTIVITY NOT EXCEEDING 0.035W/m²K, INSULATION THICKNESS SHALL BE:
15mm TO 40mm PIPE = 25mm INSULATION
50mm TO 250mm PIPE = 32mm INSULATION
 - INSULATION FOR PIPEWORK WITHIN AIR CONDITIONED SPACE
CLOSED CELL ELASTOMERIC RUBBER INSULATION (48kg/m³), WITH ALUMINUM FOIL FACE AND THERMAL CONDUCTIVITY NOT EXCEEDING 0.035W/m²K, INSULATION THICKNESS SHALL BE:
15mm TO 50mm PIPE = 19mm INSULATION
60mm TO 250mm PIPE = 25mm INSULATION
 - INSULATION FOR CONDENSER WATER PIPEWORK WITHIN AIR CONDITIONED & NON-AIR CONDITIONED SPACE
CLOSED CELL ELASTOMERIC RUBBER INSULATION (48kg/m³), WITH ALUMINUM FOIL FACE AND THERMAL CONDUCTIVITY NOT EXCEEDING 0.035W/m²K, INSULATION THICKNESS SHALL BE ALL PIPE SIZES > 13mm
 - INSULATION FOR REFRIGERATION PIPEWORK
CLOSED CELL ELASTOMERIC RUBBER INSULATION (48kg/m³), WITH ALUMINUM FOIL FACE AND THERMAL CONDUCTIVITY NOT EXCEEDING 0.035W/m²K, THE FOLLOWING INSULATION THICKNESS SHALL APPLY:
18mm INSULATION FOR CONDITIONED SPACE
25mm INSULATION FOR NON-CONDITIONED SPACE

ABBREVIATION LEGEND:

AAV	- AUTOMATIC AIR VENT
AV	- BUTTERFLY VALVE
CHWF	- CHILLED WATER FLOW
CHWR	- CHILLED WATER RETURN
CHWS	- CHILLED WATER FLOW & RETURN
DPVC	- DIFFERENTIAL PRESSURE CONTROL VALVE
FC	- FLEXIBLE CONNECTION
FM	- FLOW METER
IV	- ISOLATING VALVE
PG	- PRESSURE GLAUGE
GV	- GATE VALVE
TP	- TEST POINT
DC	- DRAIN COCK
OP	- ORIFICE PLATE
ST	- STRAINER
PICV	- PRESSURE INDEPENDENT CONTROL VALVE
MAV	- MAKEUP AIR VENT
AV	- ALTERNATING VALVE
OU	- OUTDOOR UNIT
AC	- ANGLE COCK VALVE
PRV	- PRESSURE REDUCING VALVE
HB	- HOSE BIB TAP
DCV	- DOUBLE CHECK VALVE
F/A	- FROM ABOVE
F/B	- FROM BELOW
T/A	- TO ABOVE
T/B	- TO BELOW
DN	- DOWN

NOTE:
ALL PIPE WORK LEVELS ARE TAKEN FROM SPECIFICALLY DEFINED REFERENCE LEVELS.
FF +5.680 (DMD LEVEL +5.815) TO BOTTOM OF PIPE WORK.

CERTIFICATION
THE CONTRACTOR CERTIFIES THAT THIS DRAWING HAS BEEN CORROBORATED FOR COMPLIANCE WITH THE CONTRACT.

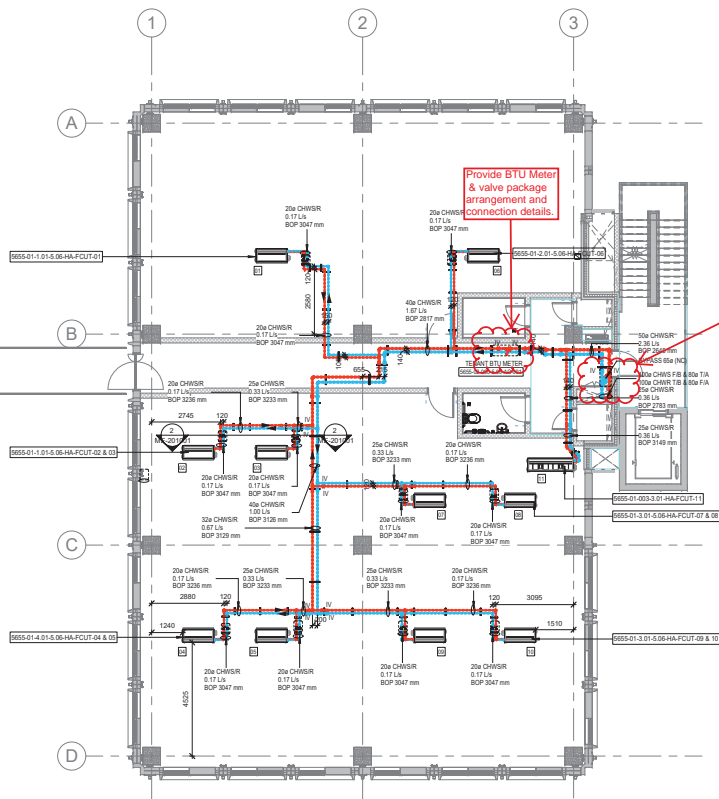
ENGINEER DOCUMENT REVIEW
Document reviewed for compliance with the design contract and in accordance with the contract terms. The contractor shall ensure that the work is carried out in accordance with the contract terms and conditions.

A. APPROVED
B. APPROVED WITH COMMENTS
C. REJECTED

REVIEWED BY DISCIPLINE	STATUS	SIGNATURE	DATE
Architectural	B	AZA	16/08/18
Structural			
Electrical	N/A		
Mechanical	B	RMSN	12-Aug-18
Plumbing	N/A		
Others			
SUBMITTAL / TRANSMITTAL NO			
ENGINEER			
Signature			16/08/18

HLCE Comments:

- AHU valve package shall be indicated on the drawing in separate section as per IFC
- BTU Meter and branch valve package arrangement to be provided in lay out drawing.
- Comply to all clouded commented parts shown in the drawing.
- Updated equipment schedule to be provided in layout as required accordingly.
- Updated shop drawing to be submitted for review.
- Complete SYMBOLS to be provided. Check equipments and accessories to be reflected in layout.



1 MSR - FIRST FLOOR - CHILLED WATER LAYOUT
SCALE: 1 : 100

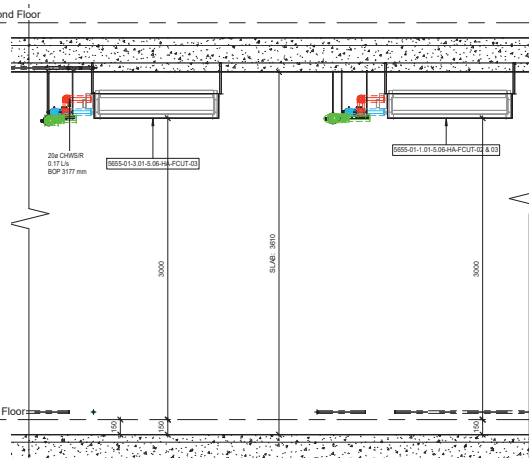
SERIAL NO	SEQUENCE NO	ITEM TYPE	SHEET TITLE	ASSOCIATED LEVEL	CHW LHS/RHS	QTY
1	01	FCU	MSR	01	LHS	1
2	02	FCU	MSR	01	LHS	1
3	03	FCU	MSR	01	LHS	1
4	04	FCU	MSR	01	RHS	1
5	05	FCU	MSR	01	RHS	1
6	06	FCU	MSR	01	RHS	1
7	07	FCU	MSR	01	LHS	1
8	08	FCU	MSR	01	LHS	1
9	09	FCU	MSR	01	LHS	1
10	10	FCU	MSR	01	LHS	1
11	01	CAV	MSR	01	RHS	1
12	02	CAV	MSR	01	RHS	1
13	02	CAV	MSR	01	RHS	1

Equipments not included in schedule should be removed.

02 - Second Floor
9440 mm

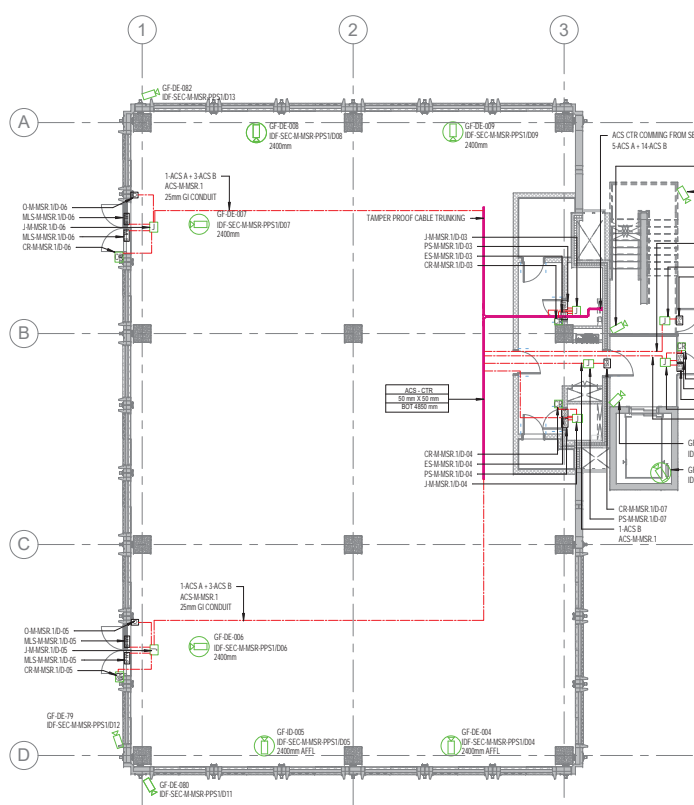
01 - First Floor
5490 mm

2 01-SECTION A-A
SCALE: 1 : 25

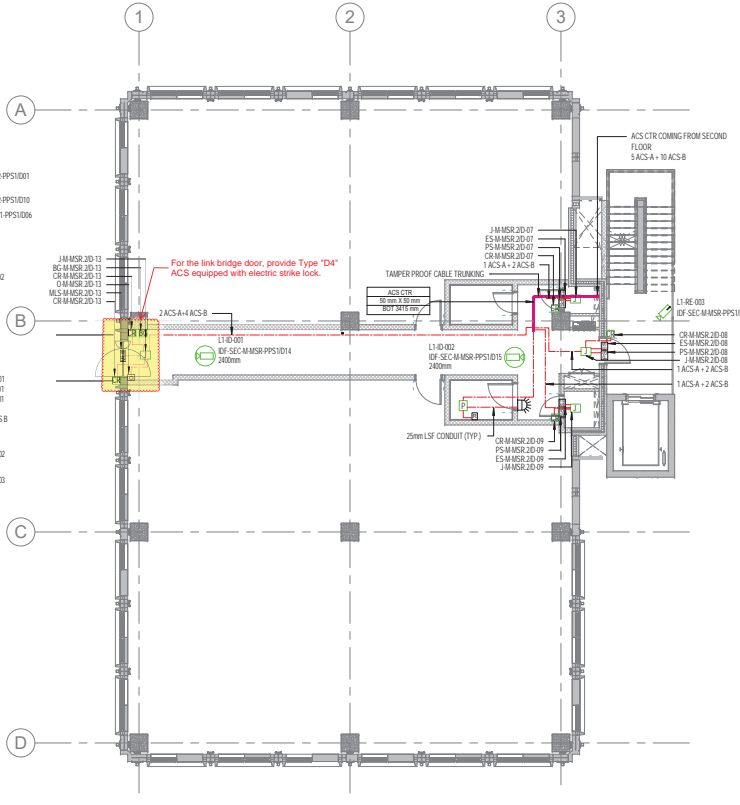




10.0 **Safety Drawings**



1 MSR - GROUND FLOOR - OPTION S1 - SECURITY SYSTEMS LAYOUT
SCALE: 1 : 100



2 MSR - FIRST FLOOR - OPTION S1 - SECURITY SYSTEMS LAYOUT
SCALE: 1 : 100

NOTE:
ALL ELECTRICAL WORK LEVELS ARE TAKEN FROM SPECIFICALLY DEFINED REFERENCE LEVELS.
SF +0.000 (GND LVL +0.250) AND
FF +0.400 (GND LVL +0.415) TO BOTTOM OF CABLE TRAY (AND TRUNKING).

COMMENTS:

- PROVIDE A SCHEMATIC DIAGRAM FOR SECURITY / ACCESS CONTROL SYSTEM. ALL CIRCUIT REFERENCES IN SHOP DRAWING LAYOUT SHALL BE IN LINE WITH THE SEQUENCE INDICATED IN THE SCHEMATIC DIAGRAM.
- ALL CONTAINMENT SHALL BE COORDINATE WITH OTHER SERVICES.
- ENSURE LATEST AND CORRECT ARCHITECTURAL PLAN ARE CONSIDERED AND INCORPORATED
- CCTV SHOP DRAWING LAYOUT SHALL BE IN LINE WITH THE SIRA APPROVED DRAWING.
- ENSURE ARCHITECTURAL PLAN ARE UPDATED AS PER LATEST ISSUED BY CONSULTANT.
- ANY CHANGES OR ADDITIONAL IN SHOP DRAWING FOR SECURITY SYSTEM LAYOUT AS PER SITE CONDITION, THE CONTRACTOR ARE RESPONSIBLE TO UPDATE THE SHOP DRAWING AND SHOULD BE REFLECT IN AS-BUILT DRAWING.

SYMBOL	DESCRIPTION
	FIXED DOME CAMERA
	EXTERNAL FIXED CAMERA
	ACS A DOORS
	ACS B DOORS
	CARD READER
	JUNCTION BOX
	ELECTRIC STRIKE
	POSITION SENSOR
	MAGNETIC LOCK WITH INTEGRAL POSITION SENSOR
	PUSH TO EXIT PUSH BUTTON
	BREAK GLASS
	FLASHER WITH SOUNDER
	REASSURANCE BUTTON
	PULL CORD SWITCH
	25mm GI CONDUIT
	UTP CAT 6 CABLE
	20CORE 18 AWG CABLE
	ACS C ACCESS CONTROL NETWORK CABLE
	ACS D 20CORE 2.5 mm FIRE RATED CABLE
	CCTV A 8C OM3 FO CABLE

- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS.
 2. THIS DRAWINGS ARE READ IN COMMUNICATION WITH THE RELEVANT ARCHITECTURAL, MEP DRAWINGS, PROJECT BENEFITS & SPECIFICATIONS.
 3. ALL CABLE TRAY & TRUNKING FOR SECURITY AND ACCESS CONTROL SYSTEM SHALL BE TAMPER PROOF.

CAMERA TAGGING EXPLANATION:	
	CAMERA REFERENCE NUMBER
	ID - IDENTIFICATION SERVLANCE
	RE - RECONOCITION SERVLANCE
	DE - DETECTION SERVLANCE
	FLOOR LEVEL REFERENCE

ABBREVIATION	
D	DATA
V	VOICE
APFL	ABOVE FINISHED FLOOR LEVEL
ACS	ACCESS CONTROL SYSTEM
CBS	CENTRAL BATTERY SYSTEM
DRWG	DRAWING
DOC	DIRECT DIGITAL CONTROL
HIL	HIGH LEVEL AT TOP OF CEILING
HL	LOW LEVEL
IP	INGRESS PROTECTION
IPF	LOW SMOKE AND FUMES
IDF	INTERMEDIATE DISTRIBUTION FRAME
ODF	OPTICAL FIBER DISTRIBUTION FRAME
MDP	MAIN DISTRIBUTION FRAME
MCP	MULTIMEDIA CONTROL ROOM
WAP	WIRELESS ACCESS POINT
U.O.B	UNLESS OTHERWISE STATED
N.T.S	NOT TO SCALE
NO	NOT TO SCALE
SD	SET DOWN
SET UP	SET UP
TIA	TO ABOVE
TO BELOW	TO BELOW
W	WETTER
WP	WEATHER PROOF
AND	AND
PA	DIAMETER
FROM ABOVE	FROM ABOVE
FROM BELOW	FROM BELOW
MM	MILLIMETERS
GI	GALVANIZED IRON

SUPERSCRIPT & SUBSCRIPT EXPLANATION	
C	CEILING MOUNTED
P	PENDANT MOUNTED
S	SOFFIT MOUNTED
W	WALL MOUNTED
2D	2D DENOTES TWIN DATA
MC	METAL CLAD
WIP	WHETHER PROOF

CABLE TRUNKING CAPACITY GUIDE	
CABLE TRUNKING SIZE IN MM	NO. OF CAT 6A UTP CABLES
80X80	14
75X75	25
100X75	50

CERTIFICATION
THE CONTRACTOR CERTIFIES THAT THIS DRAWING HAS BEEN INCORPORATED CHECKED FOR COMPLIANCE WITH THE CONTRACT.

ENGINEER DOCUMENT REVIEW

<input type="checkbox"/> A. APPROVED	
<input checked="" type="checkbox"/> B. APPROVED WITH COMMENTS	
<input type="checkbox"/> C. REJECTED	

REVIEWED BY DISCIPLINE	STATUS	SIGNATURE	DATE
Architectural			
Structural			
Electrical	B	NWH	20-08-2018
Mechanical			
Plumbing			
Others			
SUBMITTAL / TRANSMITTAL NO.			
ENGINEER			
Signature			

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DO NOT SCALE THIS DRAWING.

KEY PLAN

MOBILITY DISTRICT



SCALE: 1 : 100

GENERAL NOTES:

DESIGN DRAWING REFERENCE	
DRAWING TITLE	DRAWING NUMBER
SECURITY	10020-SDW-S10565-SE-200003
REVISION	DATE
1	07/08/2018

REVIT LINK REFERENCE MODEL	
DISCIPLINE	MODEL NUMBER
ARCHITECTURAL	60020-MDL-S10565-BS-000033
STRUCTURAL	60020-MDL-S10565-SE-000033

SAFETY, HEALTH AND ENVIRONMENT INFORMATION
Brief details on the identified hazard symbol referencing the unusual residual hazards / risks are listed below.

NO.	FIRST ISSUE	DATE	CHK	APP
1	07/08/2018	07/08/2018	CHK	APP

CLIENT:



PROGRAM/PROJECT MANAGEMENT CONSULTANT:



DESIGN CONSULTANT:



MAIN CONTRACTOR:



MEP Contractor:



Project

THEMATIC DISTRICTS MAIN CONTRACTOR-60020

Drawing Title


MOBILITY DISTRICT

SPECIAL RENTED PAVILION

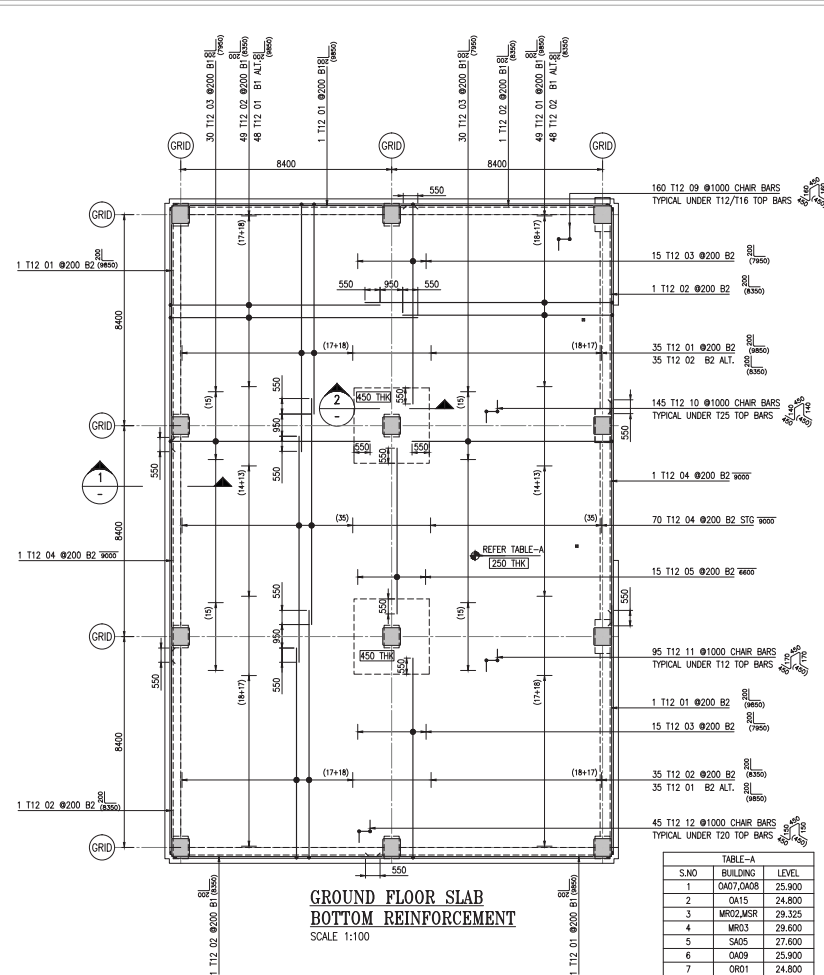
MSR - GROUND FLOOR - OPTION S1 & FIRST FLOOR -

OPTION S1 - SECURITY SYSTEMS LAYOUT

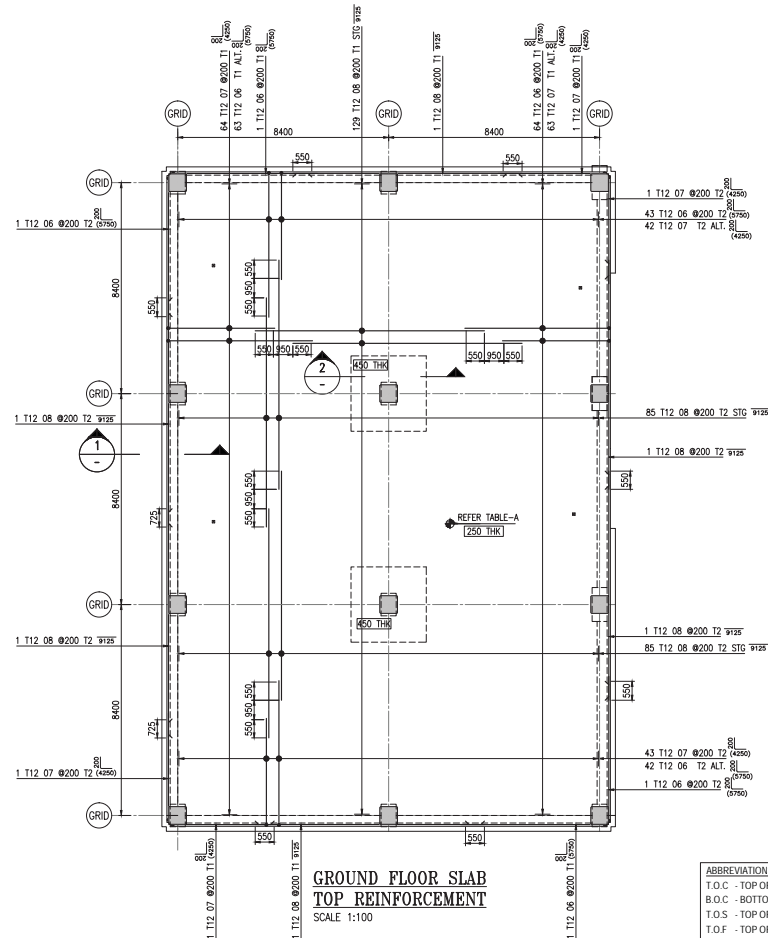
Approved	Drawn	Checked	Revision No.
AK	MU	MH	1
Model File Ref.	Scale	As Indicated	Revision No.
60020-MDL-S10565-BS-000033	Scale: 1:100	As Indicated	1
60020-SDW-S10565-SE-200001			



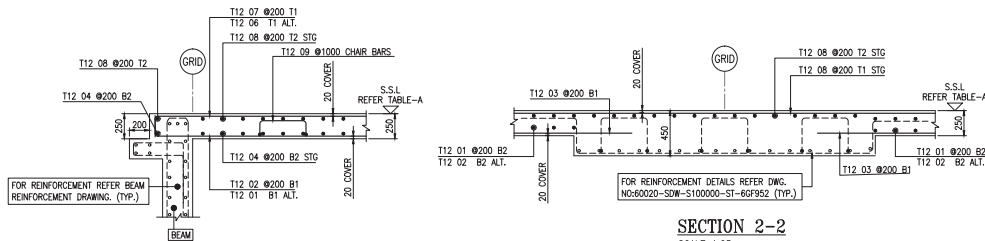
11.0 Structural Drawings



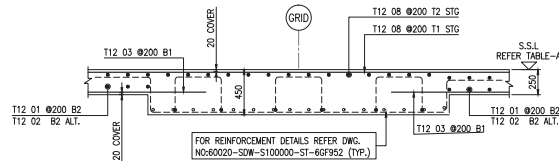
**GROUND FLOOR SLAB
BOTTOM REINFORCEMENT**
SCALE 1:100



**GROUND FLOOR SLAB
TOP REINFORCEMENT**
SCALE 1:100



SECTION 1-1
SCALE 1:25



SECTION 2-2
SCALE 1:25

NOTES:
1. FOR BBS REFER TO BBS NO.
60020-BBS-S100000-ST-000951

REL. REFERENCE:
1AFC-RF1-000539
2AFC-RF1-000549
3AFC-RF1-000553
4AFC-RF1-000551
5AFC-RF1-000605
6AFC-RF1-000576
7AFC-RF1-000550
8AFC-RF1-000611

NOTE1:
CHARS SPACING TO BE SET AT 120mm MAX IN BOTH DIRECTIONS.

NOTE2:
FOR CONCRETE DIMENSIONS REFER CONCRETE DIMENSIONS DRAWINGS.

NOTE3:
FOR OPENING SIZE LESS THAN 500mm BARS TO BE CUT AND SUIT AT SITE.

NOTE4:
HOOKS TO BE TILT AT SITE TO ACCOMMODATE COVER.

GENERAL ARRANGEMENT DRAWINGS:
1.OPPORTUNITY DISTRICT GROUND LEVEL KEY PLAN
2.OPPORTUNITY DISTRICT GROUND LEVEL GENERAL ARRANGEMENT PLAN
3.OPPORTUNITY DISTRICT GROUND LEVEL SECTION DETAILS
4.MOBILITY DISTRICT GROUND LEVEL KEY PLAN
5.MOBILITY DISTRICT GROUND LEVEL GENERAL ARRANGEMENT PLAN
6.SUSTAINABILITY DISTRICT GROUND LEVEL KEY PLAN
7.SUSTAINABILITY DISTRICT GROUND LEVEL GENERAL ARRANGEMENT PLAN

60020-SDW-S105400-ST-2GF001
60020-SDW-S105400-ST-2GF002 TO 2GF039
60020-SDW-S105400-ST-4GF001 TO 4GF019
60020-SDW-S105600-ST-2GF001
60020-SDW-S105600-ST-2GF012 TO 2GF023
60020-SDW-S105200-ST-2GF001
60020-SDW-S105200-ST-2GF012

CONTRACT DRAWING REFERENCE:
1.GENERAL NOTES - 10026-DWG-S100000-ST-100004 REV A
2.STANDARD DETAILS - 10026-DWG-S100000-ST-600019, 600014 REV A

1.REDESIGN AS PER SITE INSTRUCTION - 16
2.REDESIGN AS PER SITE INSTRUCTION - 22
3.REDESIGN AS PER SITE INSTRUCTION - 23

ABBREVIATIONS:
T.O.C - TOP OF CONCRETE
B.O.C - BOTTOM OF CONCRETE
T.O.S - TOP OF SLAB
T.O.F - TOP OF FOOTING
T1 - TOP FIRST LAYER
T2 - TOP SECOND LAYER
B1 - BOTTOM FIRST LAYER
B2 - BOTTOM SECOND LAYER
PB - PULLOUT BAR
THK - THICKNESS
ADTL - ADDITIONAL
ABR - ALTERNATE BARS REVERSED

ES - EACH SIDE
EF - EACH FACE
H - HORIZONTAL
V - VERTICAL
FF - FAR FACE
NF - NEAR FACE
TYP - TYPICAL
STG - STAGGERED
SF - SIDE FACE
ALT. - ALTERNATE

BAR MARKS TO BE READ AS:
MULTIPLIERS
NO. OF BARS
DIA OF BAR

148 T25 01 @175 B1
NOTES
SPACING
BAR MARK

CERTIFICATION
THE CONTRACTOR CERTIFIES THAT THIS DRAWING HAS BEEN COORDINATED, CHECKED FOR COMPLIANCE WITH THE CONTRACT. ENGINEER DOCUMENT REVIEW

Document is compliant with the design contract and is not checked for accuracy or suitability of purpose. This review does not release the contractor from the contractual obligations, nor does it authorize changes in the Contract Sum / Period.

☒ APPROVED
☐ REJECTED

REVIEWED BY DISCIPLINE

DISCIPLINE	STATUS	SIGNATURE	DATE
Architectural (PA)	A	GW	13/06/18
Structural (Structural)	A	Ramy Shaw	13/06/18
Electrical (Electrical)			
Mechanical (Mechanical)			
Plumbing (Plumbing)			
Others			

SUBMITTAL TRANSMITTAL

NO. _____ REV _____

ENGINEER: Ramy Shaw
DATE: 13/06/18

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DO NOT SCALE THIS DRAWING.

KEY PLAN

4.0M
SCALE-1:100 2.0M
SCALE-1:50 1.0M
SCALE-1:20

General Notes:
1) ALL DIMENSIONS ARE IN MILLIMETER
2) ALL LEVELS ARE IN METER
3) CONCRETE GRADE F'C-40MPa
4) REINFORCEMENT GRADE Fy - 450MPa
5) LAP LENGTH - AS PER LAP TABLE

LAP SPICE AND DEVELOPMENT SCHEDULE
(Fy=40MPa, fy=400MPa)

BAR SIZE	TOP BARS		OTHERS		MINIMUM STANDARD HOOK
	Ld	LAP	Ld	LAP	
10	475	600	350	475	200
12	550	725	425	550	200
16	725	950	575	725	250
20	925	1175	700	925	300
25	1400	1825	1075	1400	425
32	1800	2325	1375	1800	550
40	2225		COUPLER		775

WHERE HORIZONTAL BAR REINFORCEMENT IS PLACED MORE THAN 300MM OF FRESH CONCRETE IS CAST BELOW THE DEVELOPMENT LENGTH OR SPICE, THEN THE SPICE LENGTH SHOULD BE TOP.

CONCRETE COVER TO REINFORCEMENT

LOWER SLAB	UPPER SLAB
TOP - 50mm BOTTOM - 20mm	TOP & BOTTOM - 20mm

AS-BUILT

SAFETY, HEALTH AND ENVIRONMENT INFORMATION
Brief details on the identified hazard symbol referencing the unusual residual hazards / risks are listed above.

REVISIONS

No.	Description	Date
1	First Issue	19/05/2018

CLIENTS:

PROGRAM/PROJECT MANAGEMENT CONSULTANT:
ch2m hill
mace

DESIGN CONSULTANT:
Hopkins Architects

CONSULTANT:
e.construct

MAIN CONTRACTOR:
المنارة
carillion

SUB-CONTRACTOR:
CAOS
CSI NETWORK SERVICES

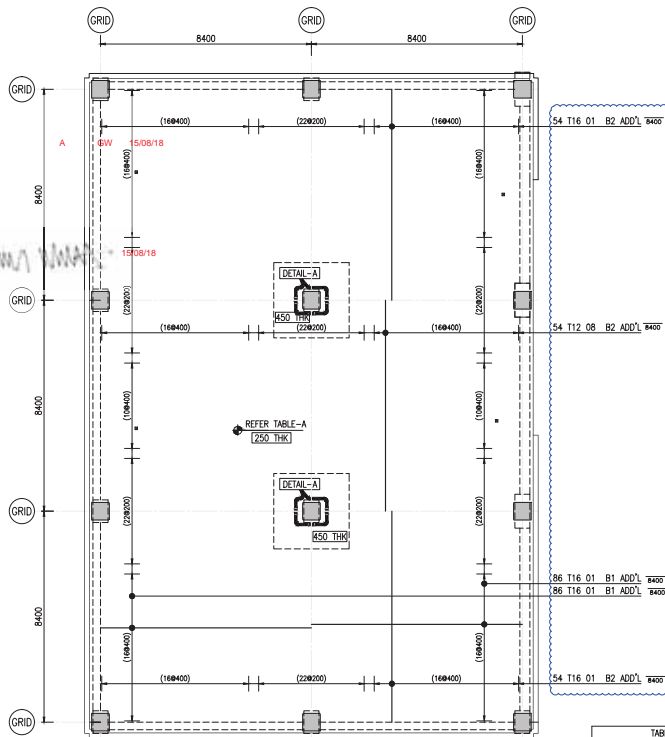
PROJECT:
THEMATIC DISTRICTS MAIN CONTRACTOR-60020

AS-BUILT ALL DISTRICT GROUND FLOOR SLAB (0A07,0A08,0A15,MR02,MR03,MSR,SA05,0A09 & OR01)

REINFORCEMENT DETAILS (SHEET 1)

Approved	Drawn	Checked	Scale
MM/SS/HK	KMP	KTS	1:100
N/A	AS SHOWN	A	

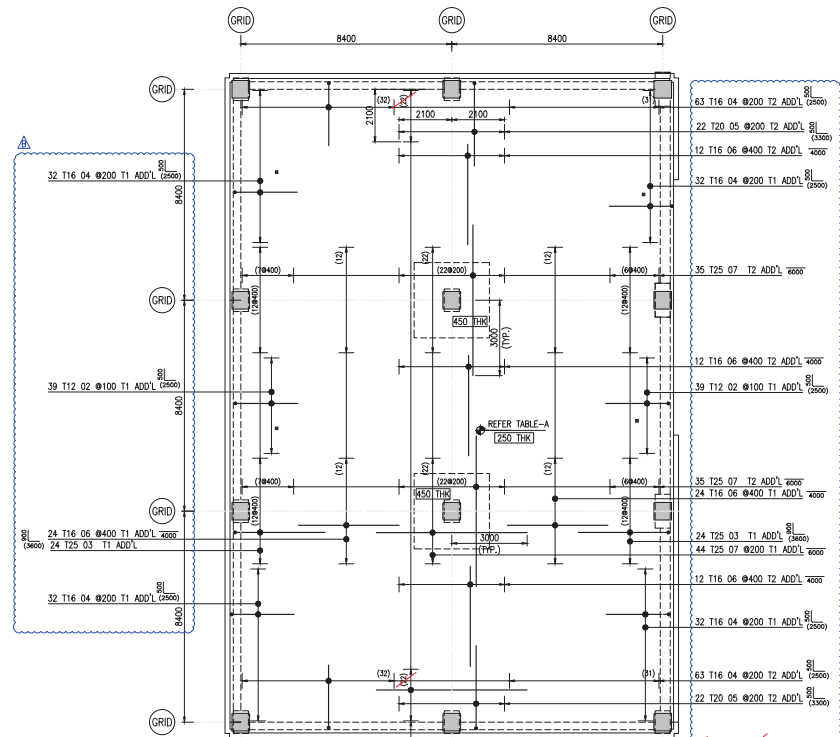
60020-SDW-S100000-ST-6GF951



**GROUND FLOOR SLAB
BOTTOM ADDITIONAL REINFORCEMENT**
SCALE 1:100

S.NO	BUILDING	LEVEL
1	OA07,OA08	25.900
2	OA15	24.800
3	MR02,MSR	29.325
4	MR03	29.600
5	SA05	27.600
6	OA09	25.900
7	OR01	24.800

MSR is not following VE design



**GROUND FLOOR SLAB
TOP ADDITIONAL REINFORCEMENT**
SCALE 1:100

NOTE: FOR CONCRETE DIMENSIONS REFER CONCRETE DIMENSIONS DRAWINGS.

NOTE: FOR OPENING SIZE LESS THAN 500mm BARS TO BE CUT AND SUIT AT SITE

NOTES:
1. FOR BBS REFER TO BBS NO.: 60020-BBS-S10000-ST-00952

BBS REFERENCE:
1.AFC-RF1-000539
2.AFC-RF1-000549
3.AFC-RF1-000553
4.AFC-RF1-000501
5.AFC-RF1-000605
6.AFC-RF1-000576
7.AFC-RF1-000550
8.AFC-RF1-000611

ABBREVIATIONS:
T.O.C - TOP OF CONCRETE
B.O.C - BOTTOM OF CONCRETE
T.O.S - TOP OF SLAB
T.O.F - TOP OF FOOTING
T1 - TOP FIRST LAYER
T2 - TOP SECOND LAYER
B1 - BOTTOM FIRST LAYER
B2 - BOTTOM SECOND LAYER
PF - PULL-OUT BAR
THK - THICKNESS
ADD'L - ADDITIONAL
ABR - ALTERNATE BARS REVERSED
BAR MARKS TO BE READ AS:
MULTIPLIERS
NO. OF BARS
DIA OF BAR

ES - EACH SIDE
EF - EACH FACE
H - HORIZONTAL
V - VERTICAL
FF - FAR FACE
NF - NEAR FACE
TYP. - TYPICAL
STG. - STAGGERED
SF - SIDE FACE
ALT. - ALTERNATE

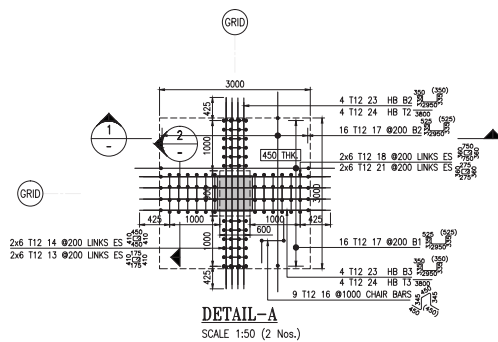
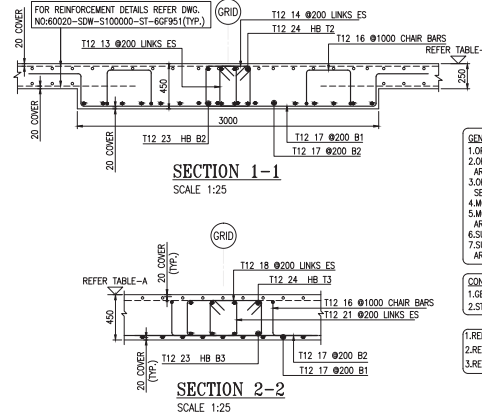
GENERAL ARRANGEMENT DRAWINGS:

- 1.OPPORTUNITY DISTRICT GROUND LEVEL KEY PLAN
- 2.OPPORTUNITY DISTRICT GROUND LEVEL GENERAL ARRANGEMENT PLAN
- 3.OPPORTUNITY DISTRICT GROUND LEVEL SECTION DETAILS
- 4.MOBILITY DISTRICT GROUND LEVEL KEY PLAN
- 5.MOBILITY DISTRICT GROUND LEVEL GENERAL ARRANGEMENT PLAN
- 6.SUSTAINABILITY DISTRICT GROUND LEVEL KEY PLAN
- 7.SUSTAINABILITY DISTRICT GROUND LEVEL GENERAL ARRANGEMENT PLAN

- 60020-SDW-S105400-ST-2GF001
- 60020-SDW-S105400-ST-2GF002 TO 2GF039
- 60020-SDW-S105400-ST-4GF001 TO 4GF019
- 60020-SDW-S105600-ST-2GF001
- 60020-SDW-S105600-ST-2GF012 TO 2GF023
- 60020-SDW-S105200-ST-2GF001
- 60020-SDW-S105200-ST-2GF012

CONTRACT DRAWING REFERENCE:
1.GENERAL NOTES - 10026-DWG-S100000-ST-100004 REV A
2.STANDARD DETAILS - 10026-DWG-S100000-ST-600019, 600014 REV A

- 1.REDESIGN AS PER SITE INSTRUCTION - 16
- 2.REDESIGN AS PER SITE INSTRUCTION - 22
- 3.REDESIGN AS PER SITE INSTRUCTION - 23

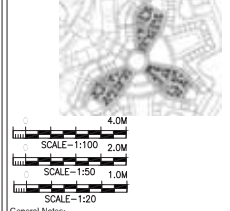


DETAIL-A
SCALE 1:50 (2 Nos.)

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DO NOT SCALE THIS DRAWING.

KEY PLAN



- 1) ALL DIMENSIONS ARE IN MILLIMETER
- 2) ALL LEVELS ARE IN METER
- 3) CONCRETE GRADE F_c = 40MPa
- 4) REINFORCEMENT GRADE F_y = 460MPa
- 5) LAP LENGTH - AS PER LAP TABLE

BAR SIZE	LAP SPICE AND DEVELOPMENT SCHEDULE (F _c =40MPa, F _y =460MPa)			
	Ld	LAP	OTHERS	STANDARD HOOK
10	475	600	350	475
12	550	725	425	550
16	725	950	575	725
20	925	1175	700	925
25	1400	1625	1075	1400
32	1800	2325	1375	1800
40	2225		COUPLER	775

WHERE HORIZONTAL BAR REINFORCEMENT IS PLACED MORE THAN 300MM OF FRESH CONCRETE IS CAST BELOW THE DEVELOPMENT LENGTH OR SPLICE, THEN THE SPLICE LENGTH SHOULD BE TOP

a) CONCRETE COVER TO REINFORCEMENT
LOWER SLAB: TOP = 50mm, BOTTOM = 20mm
UPPER SLAB: TOP & BOTTOM = 20mm

AS-BUILT

No Description
SAFETY, HEALTH AND ENVIRONMENT INFORMATION
Brief details on the identified hazard symbol referencing the unusual residual hazards / risks are listed above.

REVISIONS			
No	Description	Date	By
1	BAR SHAPES & LENGTH ADDED	24/07/2018	KMP/KGN
2	FIRST ISSUE	19/05/2018	KMP/KGN
3	Explanatory Note	Date	By

CLIENT: **EXPRESS BUILDING**

PROGRAM/PROJECT MANAGEMENT CONSULTANT:
ch2m hill mace

DESIGN CONSULTANT:
Hopkins Architects

CONSULTANT:
e.construct

MAIN CONTRACTOR:
المنارة

SAFETY CONSULTANT:
Carillion

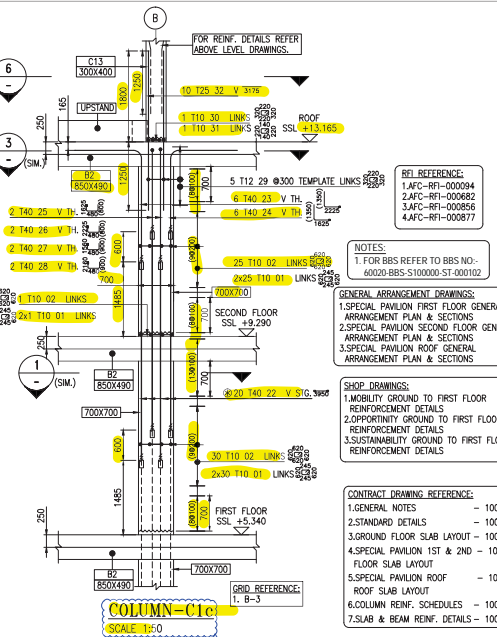
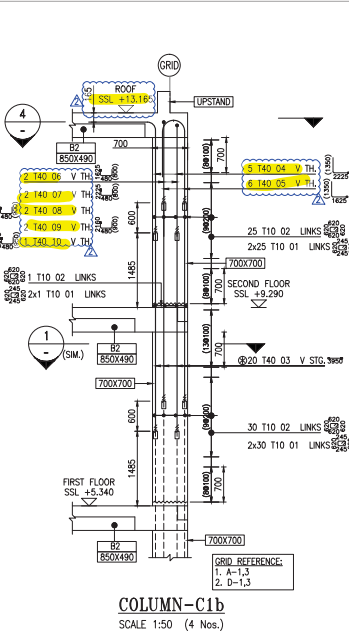
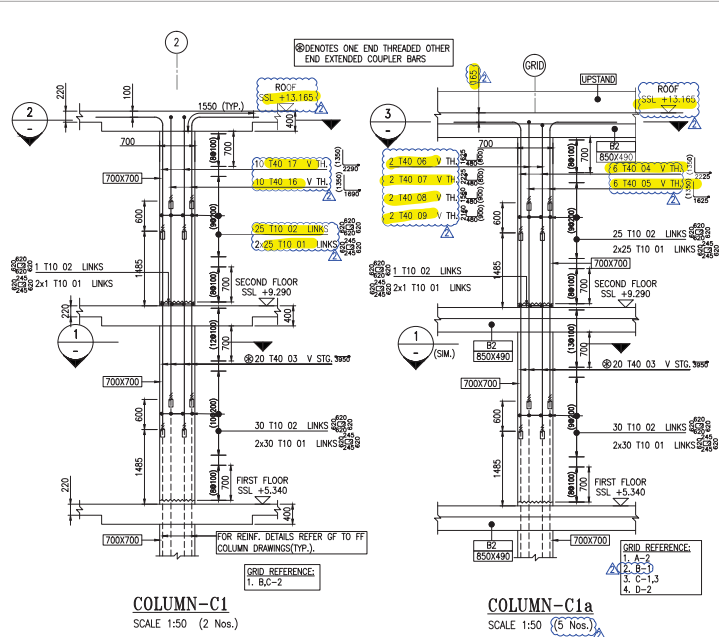
SAFETY CONSULTANT:
CSi NETWORK SERVICES

PROJECT:
THEMATIC DISTRICTS MAIN CONTRACTOR-60020

DRAWING TITLE:
AS-BUILT ALL DISTRICTS GROUND FLOOR SLAB ADD'L (OA07,OA08, OA15,MR02,MR03,MSR,SA05,OA09 & OR01) REINFORCEMENT DETAILS (SHEET 2)

REVIEWED BY DISCIPLINE	STATUS	SIGNATURE	DATE
Architectural (PA)	C	GW	15/08/18
Structural (Structural)	C	A.Wagdy	11/08/2018
Electrical (Phase/Less)			
Mechanical (Phase/Less)			
Planting (Phase/Less)			
Other			
SUBMITTAL (TRANSMITTAL)			
ENGINEER (Hopkins Architects)			15/08/18

60020-SDW-S100000-ST-6GF952



ABBREVIATIONS:
T.O.C. - TOP OF CONCRETE
B.O.C. - BOTTOM OF CONCRETE
T.O.S. - TOP OF SLAB
T.O.F. - TOP OF FOOTING
T1 - TOP FIRST LAYER
T2 - TOP SECOND LAYER
B1 - BOTTOM FIRST LAYER
B2 - BOTTOM SECOND LAYER
PB - PULL-OUT BAR
THK - THICKNESS
ADDL - ADDITIONAL
ABR - ALTERNATE BARS REVERSED

ES - EACH SIDE
EF - EACH FACE
H - HORIZONTAL
V - VERTICAL
FF - FAR FACE
NF - NEAR FACE
TYP. - TYPICAL
STG. - STAGGERED
SF - SIDE FACE
ALT. - ALTERNATE

BAR MARKS TO BE READ AS:
148 T25 01 @175 B1
NOTES
SPACING
BAR MARK

RF REFERENCE:
1.AFC-RF-000084
2.AFC-RF-000082
3.AFC-RF-000086
4.AFC-RF-000087

NOTES:
1. FOR BBS REFER TO BBS NO. - 60020-SDW-S100000-ST-000102

GENERAL ARRANGEMENT DRAWINGS:
1. SPECIAL PAVILION FIRST FLOOR GENERAL - 60020-SDW-S100000-ST-201064
2. SPECIAL PAVILION SECOND FLOOR GENERAL - 60020-SDW-S100000-ST-202065
3. SPECIAL PAVILION ROOF GENERAL - 60020-SDW-S100000-ST-28F066

SHOP DRAWINGS:
1. MOBILITY GROUND TO FIRST FLOOR - 60020-SDW-S105600-ST-600401 TO 600405
2. OPPORTUNITY GROUND TO FIRST FLOOR - 60020-SDW-S105400-ST-600401 TO 600408
3. SUSTAINABILITY GROUND TO FIRST FLOOR - 60020-SDW-S105200-ST-600401 TO 600405

CONTRACT DRAWING REFERENCE:
1. GENERAL NOTES - 10026-DWG-S100000-ST-100003 & 100004 (A)
2. STANDARD DETAILS - 10026-DWG-S100000-ST-600011 & 600016 (B)
3. GROUND FLOOR SLAB LAYOUT - 10026-DWG-S100000-ST-20F001 TO 20F036 (E)
4. SPECIAL PAVILION 1ST & 2ND - 10026-DWG-S100000-ST-200104 (A)
5. SPECIAL PAVILION ROOF - 10026-DWG-S100000-ST-200105 (A)
6. COLUMN REIN. SCHEDULES - 10026-DWG-S100000-ST-700004 (A) & 700006 (B)
7. SLAB & BEAM REIN. DETAILS - 10026-DWG-S100000-ST-700005 (E)

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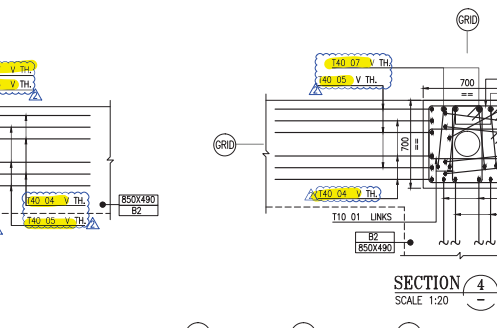
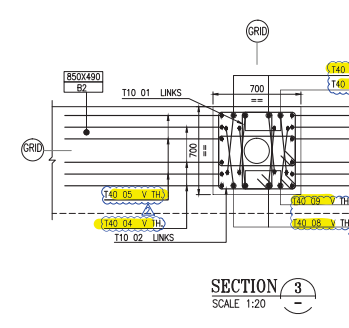
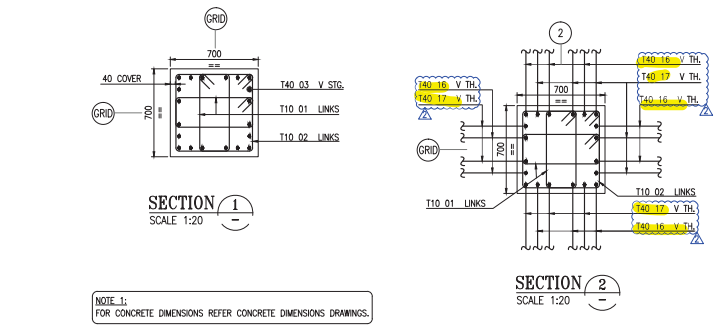
KEY PLAN

General Notes:
1) ALL DIMENSIONS ARE IN MILLIMETER
2) ALL LEVELS ARE IN METER
3) CONCRETE GRADE F_c C50MPa
4) REINFORCEMENT GRADE F_y = 460MPa
5) LAP LENGTH - AS PER LAP TABLE

BAR SIZE	TOP BARS		OTHERS		MINIMUM STANDARD
	LAP	Ld	LAP	Ld	
12	500	650	375	500	200
16	650	850	500	650	250
20	825	1050	625	825	300
25	1250	1625	975	1250	425
32	1600	2075	1225	1600	550
40	2000	COUPLER	1550	COUPLER	775

WHERE HORIZONTAL BAR REINFORCEMENT IS PLACED MORE THAN 300MM OF FRESH CONCRETE IS CAST BELOW THE DEVELOPMENT LENGTH OR SPLICE, THEN THE SPLICE LENGTH SHOULD BE TOP.

4) CONCRETE COVER TO REINFORCEMENT
COLUMN:
ALL SIDES = 40mm



NOTE 1:
FOR CONCRETE DIMENSIONS REFER CONCRETE DIMENSIONS DRAWINGS.

REVISIONS

No	Description	22/09/17	KRT	27/09/17	KTS
2	REVISED AS PER QA COMMENTS				
1	FIRST ISSUE				

CLIENT:

PROGRAM/PROJECT MANAGEMENT CONSULTANT:
ch2m hill
mace

DESIGN CONSULTANT:
Hopkins Architects

CONSULTANT:
e.construct

MAIN CONTRACTOR:
البناء
Carillion

SUB-CONTRACTOR:
CAOS

PROJECT:
THEMATIC DISTRICTS MAIN CONTRACTOR-60020

MOBILITY & OPPORTUNITY SPECIAL PAVILION (MSR & OSR) FIRST FLOOR TO ROOF COLUMN REINFORCEMENT DETAILS

APPROVED:
MM/MS
N/A
N/A

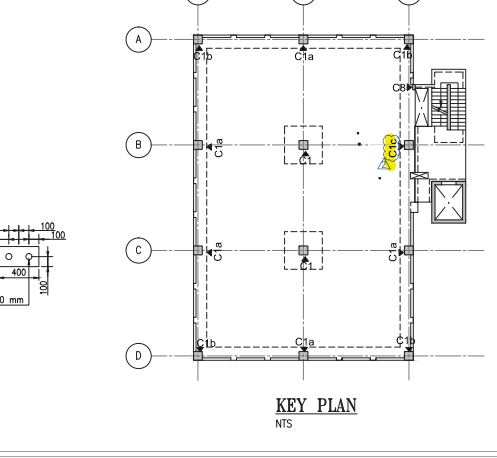
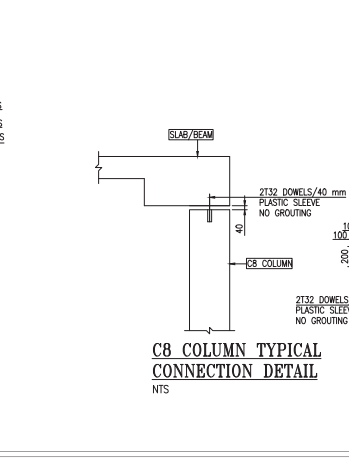
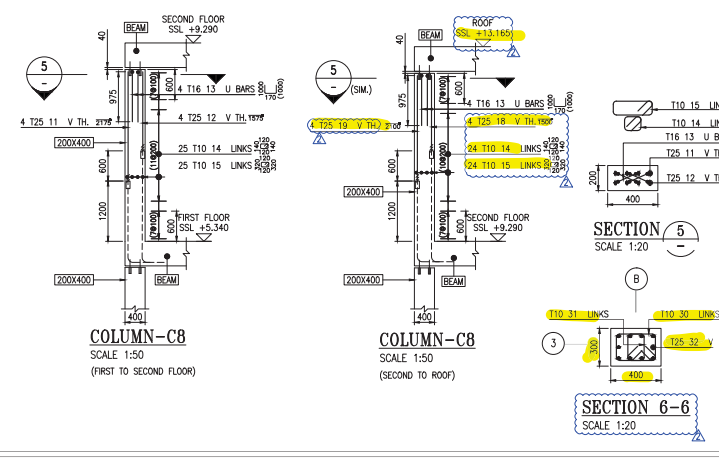
DESIGNED:
KRT
KTS

Model File Ref:
Scale A1 (994841)

AS SHOWN

Revision No:
2

Sheet No:
60020-SDW-S100000-ST-600102



CERTIFICATION

THE CONTRACTOR CERTIFIES THAT THE DRAWING HAS BEEN COORDINATED, CHECKED FOR COMPLIANCE WITH THE CONTRACT.

ENGINEER DOCUMENT REVIEW

Document reviewed for compliance with the design contract and is not checked for accuracy or suitability of purpose. This review does not release the contractor from his contractual obligations, nor does it authorize changes in the Contract Sum / Period.

REVIEWED BY DISCIPLINE

DISCIPLINE	STATUS	SIGNATURE	DATE
Architectural (PA)	A	GW	02/11/17
Structural (Structural)	A	ASALAH	10/11/2017
Structural (Mechanical)			
Mechanical (Plumbing)			
Plumbing (Plumbing)			
Others			
SUBMITTAL / TRANSMITTAL NO.			
ENGINEER / Managing Architect			

REVISIONS

NO	REVISION	DATE
1	REVISION	02/11/17

REVISIONS

No	Description	22/09/17	KRT	27/09/17	KTS
2	REVISED AS PER QA COMMENTS				
1	FIRST ISSUE				

CLIENT:

PROGRAM/PROJECT MANAGEMENT CONSULTANT:
ch2m hill
mace

DESIGN CONSULTANT:
Hopkins Architects

CONSULTANT:
e.construct

MAIN CONTRACTOR:
البناء
Carillion

SUB-CONTRACTOR:
CAOS

PROJECT:
THEMATIC DISTRICTS MAIN CONTRACTOR-60020

MOBILITY & OPPORTUNITY SPECIAL PAVILION (MSR & OSR) FIRST FLOOR TO ROOF COLUMN REINFORCEMENT DETAILS

APPROVED:
MM/MS
N/A
N/A

DESIGNED:
KRT
KTS

Model File Ref:
Scale A1 (994841)

AS SHOWN

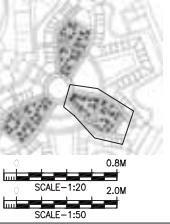
Revision No:
2

Sheet No:
60020-SDW-S100000-ST-600102

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KEY PLAN



GENERAL NOTES:

- 1) ALL DIMENSIONS ARE IN MILLIMETER
- 2) ALL LEVELS ARE IN METER
- 3) CONCRETE GRADE F_c C50MPa
- 4) REINFORCEMENT GRADE F_y = 400MPa
- 5) LAP LENGTH = AS PER LAP TABLE

LAP SPICE AND DEVELOPMENT SCHEDULE (F _c =50Mpa, F _y =400Mpa)				
BAR SIZE	TOP BARS	OTHERS	MINIMUM STANDARD HOOK	
10	425	325	425	200
12	500	450	375	200
16	650	550	500	250
20	825	700	625	300
25	1250	1025	975	425
32	1600	1325	1225	550
40	2000			775

WHERE HORIZONTAL BAR REINFORCEMENT IS PLACED MORE THAN 300MM OF FRESH CONCRETE IS CAST BELOW THE DEVELOPMENT LENGTH OR SPICE, THEN THE SPICE LENGTH SHOULD BE TOP. a) CONCRETE COVER TO REINFORCEMENT WALL ALL SIDES : 20mm

No	Description	REVISIONS
1	FIRST ISSUE	30/11/2017 MGB/KSK
2	Explanatory Note	Date: 27th Apr

No	Description	REVISIONS
1	FIRST ISSUE	30/11/2017 MGB/KSK
2	Explanatory Note	Date: 27th Apr

CLIENTS:

PROGRAMME/PROJECT MANAGEMENT CONSULTANT:
ch2m hill
mace

DESIGN CONSULTANT:
Hopkins Architects

CONSULTANT:
e.construct

MAIN CONTRACTOR:
البناء والاسكان
At-Tamim

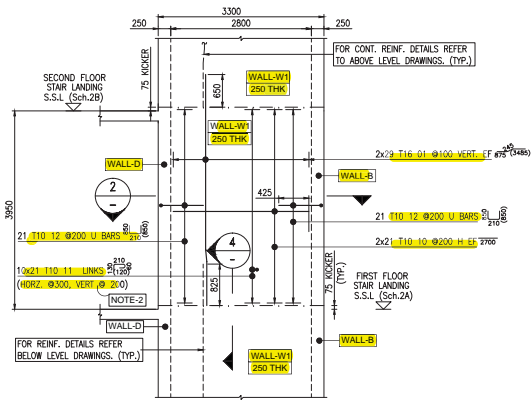
SUB-CONTRACTOR:
CSI NETWORK SERVICES
CAOS

PROJECT:
THEMATIC DISTRICTS MAIN CONTRACTOR-60020

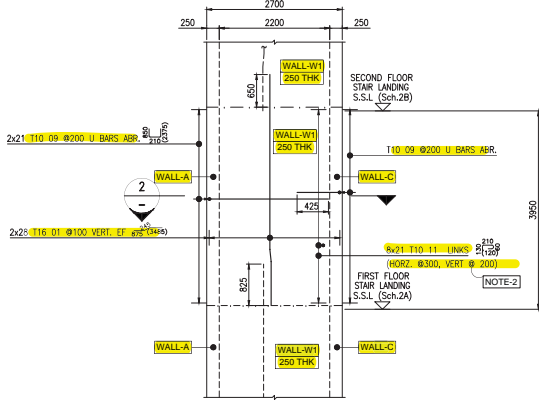
MOBILITY & OPPORTUNITY DISTRICT SPECIAL PAVILION (MSR & OSR) FIRST FLOOR TO SECOND FLOOR LIFT WALL REINFORCEMENT DETAILS

Approved	Checked	Drawn	Scale	Revision No	Revision Date
MMW/SS	MGB	KSK	1:20 & 1:50	1	30/11/2017
N/A					
N/A					

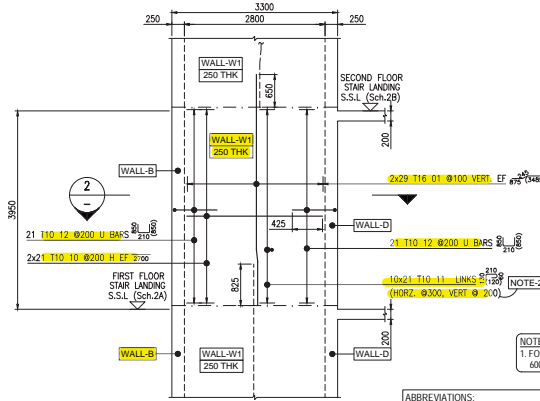
60020-SDW-S100000-ST-600206



WALL-A
SCALE 1:50

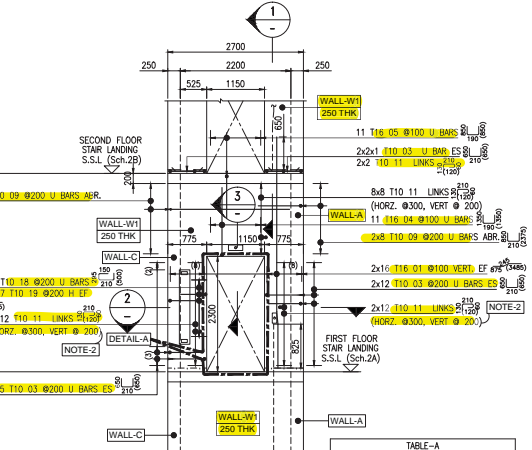


WALL-B
SCALE 1:50

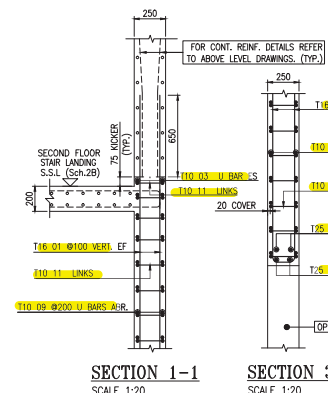


WALL-C
SCALE 1:50

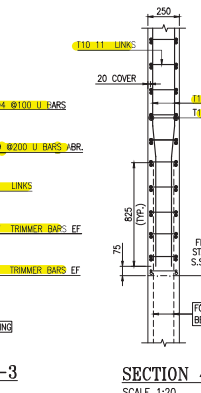
ABBREVIATIONS:
ES - EACH SIDE
T.O.S - TOP OF SLAB
T1 - TOP FIRST LAYER
T2 - TOP SECOND LAYER
B1 - BOTTOM FIRST LAYER
B2 - BOTTOM SECOND LAYER
ADDL - ADDITIONAL
ABR - ALTERNATE BARS REVERSED
EF - EACH FACE
H - HORIZONTAL
V - VERTICAL
THK - THICKNESS
TYP. - TYPICAL
CP - COUPLER BARS
HB - HOLDING BARS



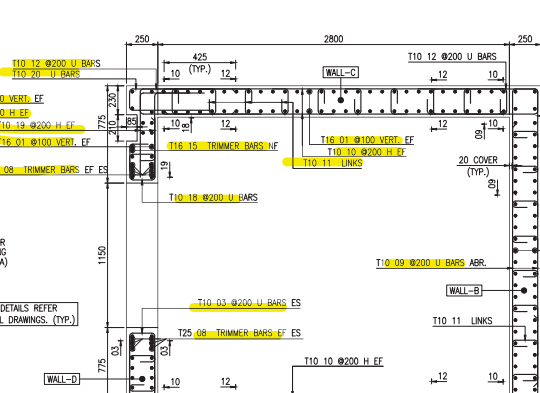
WALL-D
SCALE 1:50



SECTION 1-1
SCALE 1:20



SECTION 3-3
SCALE 1:20



SECTION 4-4
SCALE 1:20

NOTE 1:
FOR CONCRETE DIMENSIONS REFER CONCRETE DIMENSIONS DRAWINGS.

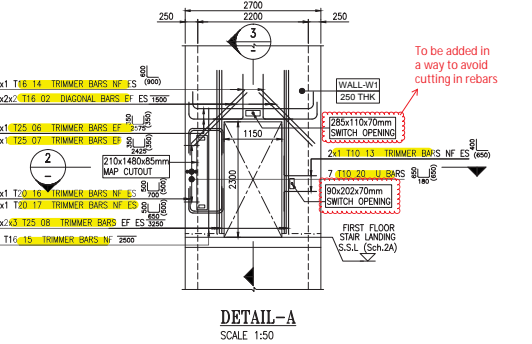
NOTE 2:
LINKS SHOULD BE PLACED VERTICALLY @ 200 SPACING AS PER HORIZONTAL BAR SPACING

GENERAL ARRANGEMENT DRAWINGS:
1. MOBILITY DISTRICT SPECIAL PAVILION TYPE-A FIRST FLOOR - 60020-SDW-S105655-ST-201901
2. OPPORTUNITY DISTRICT SPECIAL PAVILION TYPE-B FIRST FLOOR - 60020-SDW-S105455-ST-201901
3. MOBILITY DISTRICT SPECIAL PAVILION TYPE-A SECOND FLOOR - 60020-SDW-S105655-ST-202901
4. OPPORTUNITY DISTRICT SPECIAL PAVILION TYPE-B SECOND FLOOR - 60020-SDW-S105455-ST-202901

SHOP DRAWINGS:
1. MOBILITY DISTRICT FIRST FLOOR & SECOND FLOOR SLAB REINFORCEMENT DETAILS - 60020-SDW-S105655-ST-600901
2. OPPORTUNITY DISTRICT FIRST FLOOR & SECOND FLOOR SLAB REINFORCEMENT DETAILS - 60020-SDW-S105455-ST-600901
3. MOBILITY DISTRICT GROUND FLOOR TO FIRST FLOOR LIFT WALL REINFORCEMENT DETAILS - 60020-SDW-S105455-ST-600201
4. OPPORTUNITY DISTRICT GROUND FLOOR TO FIRST FLOOR LIFT WALL REINFORCEMENT DETAILS - 60020-SDW-S105455-ST-600201

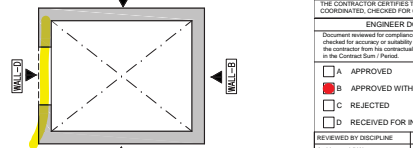
CONTRACT DRAWING REFERENCE:
1. GENERAL NOTES - 10026-DWG-S100000-ST-100003 & 100004 (A)
2. STANDARD DETAIL - 10026-DWG-S100000-ST-600016 (B) & 400026 TO 400028 (A)
3. STANDARD DETAILS - 10026-DWG-S100000-ST-600008 (C) & 600019 (A)
4. GROUND FLOOR FLOOR SLAB LAYOUT - 10026-DWG-S100000-ST-201020 (E)
5. STAR DETAILS - 10026-DWG-S100000-ST-600003 (B)
6. WALL REINFORCEMENT SCHEDULE - 10026-DWG-S100000-ST-700005 (F)
7. LIFT DOOR DETAILS - 60020-SDW-S105600-VF-200001 & 400001(1)
8. LIFT DOOR DETAILS - 60020-SDW-S105400-VF-200001 & 400001(1)

RFI REFERENCE:
1. AFC-RFI-000300
2. AFC-RFI-001158



DETAIL-A
SCALE 1:50

BAR MARKS TO BE READ AS:
MULTIPLIERS: 1x25 T01 @175 B1
NO. OF BARS: 1
DIA OF BAR: 1
L-SPACING: 1
U-SPACING: 1
BAR MARK: 1



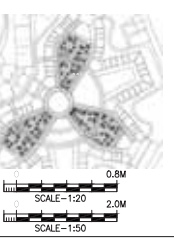
KEY PLAN
NTS

HAZL Note: Also refer to and read in conjunction with comments on relevant General Arrangement

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KEY PLAN



GENERAL NOTES:

- 1) ALL DIMENSIONS ARE IN MILLIMETER
- 2) ALL LEVELS ARE IN METER
- 3) CONCRETE GRADE F.C. C50/MPa
- 4) REINFORCEMENT GRADE Fy = 460MPa
- 5) LAP LENGTH - AS PER LAP TABLE

LAP SPICE AND DEVELOPMENT SCHEDULE (F.C. C50/MPa, Fy=460MPa)				
BAR SIZE	TOP BARS	OTHERS	DOWNWARD STANDARD HOOK	
10	425	525	425	200
12	500	650	375	200
16	650	850	500	250
20	825	1050	625	300
25	1250	1625	975	425
32	1600	2075	1225	550
40	2000			775

WHERE HORIZONTAL BAR REINFORCEMENT IS PLACED MORE THAN 300MM OF FRESH CONCRETE IS CAST BELOW THE DEVELOPMENT LENGTH OR SPICE, THEN THE SPICE LENGTH SHOULD BE TOP 6) CONCRETE COVER TO REINFORCEMENT WALL ALL SIDES:-
BELOW UPPER GROUND : 40mm (All side)
ABOVE UPPER GROUND : 20mm (All side)

No	Description
1	SAFETY, HEALTH AND ENVIRONMENT INFORMATION
2	Brief details on the identified hazard symbol referencing the unusual residual hazards / risks are listed above.

No	Description				
SAFETY, HEALTH AND ENVIRONMENT INFORMATION					
Brief details on the identified hazard symbol referencing the unusual residual hazards / risks are listed above.					
REVISIONS					

1	FIRST ISSUE	08/12/2017	MGB	KSK	.	
No.	Explanatory Note	Date	Dra	Chk	Apr	
CLIENT:						

PROGRAM/PROJECT MANAGEMENT CONSULTANT
ch2m h mace

DESIGN CONSULTANT
Hopkins Architects

CONSULTANT
e.construct

MAIN CONTRACTOR
المباني

Sub-CONTRACTOR
CSI NETWORK SERVICES

PROJECT
MOBILITY & OPPORTUNITY DISTRICT SPECIAL PAVILION (MSR & OSR) GROUND FLOOR TO FIRST FLOOR STAIRCASE WALL REINFORCEMENT DETAILS

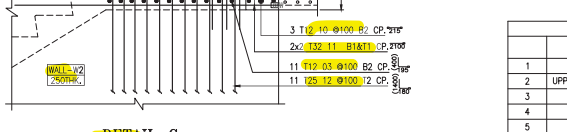
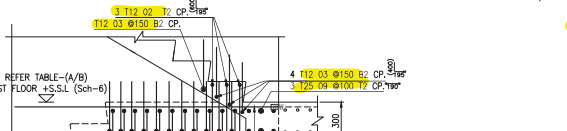
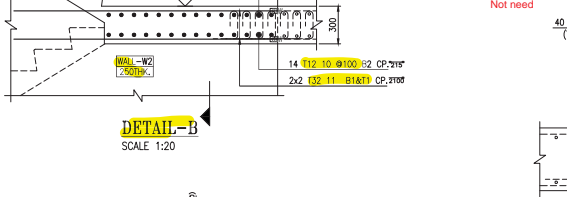
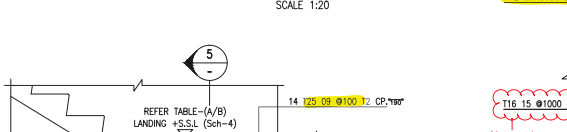
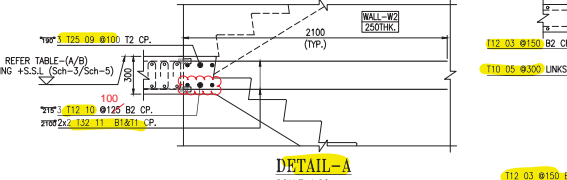
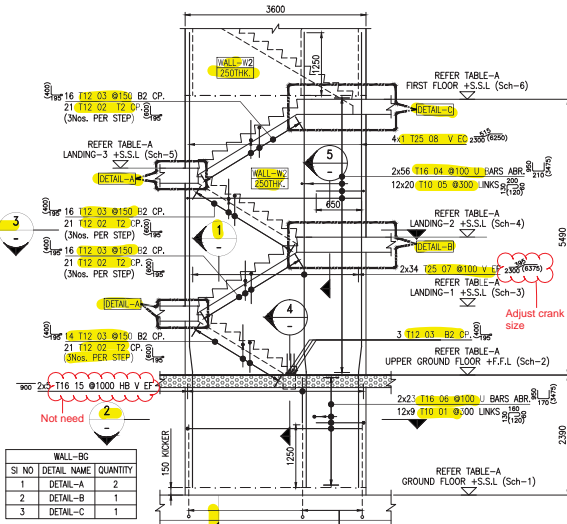
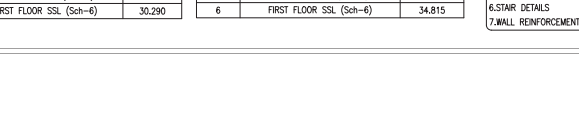
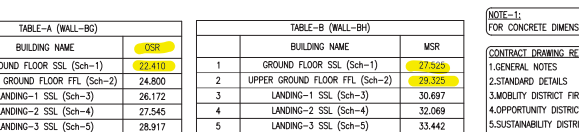
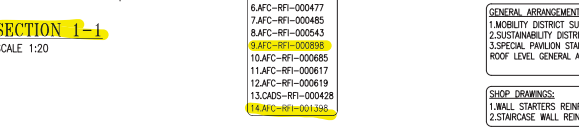
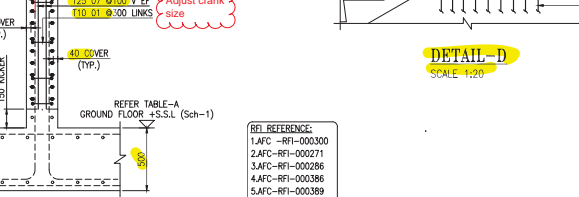
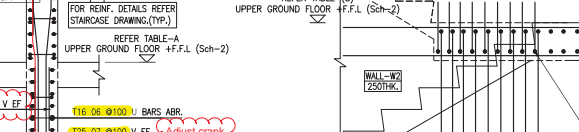
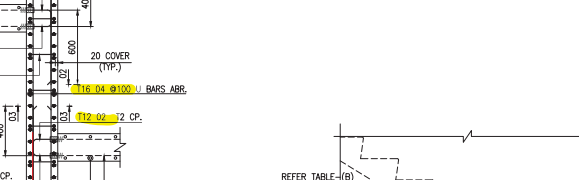
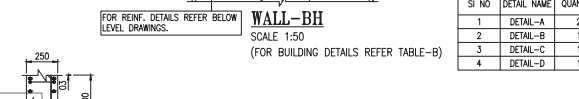
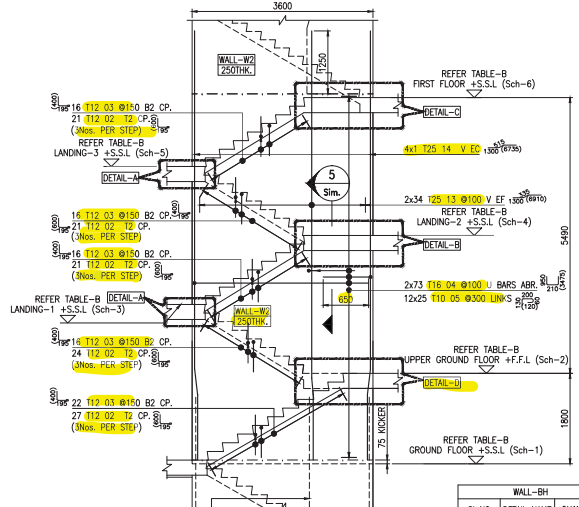
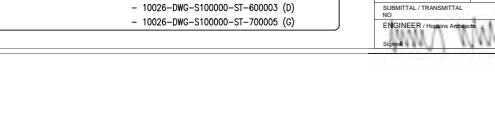
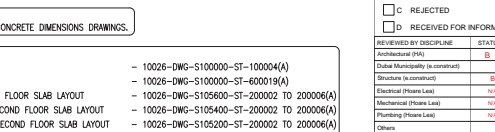
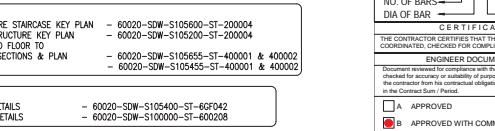
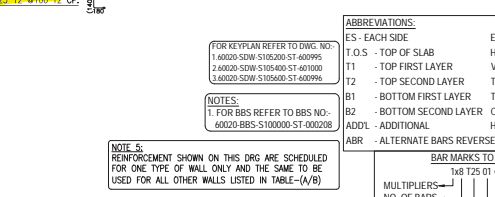
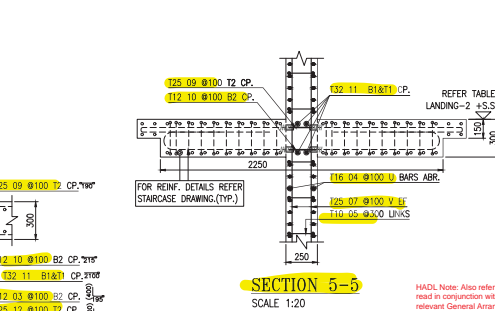
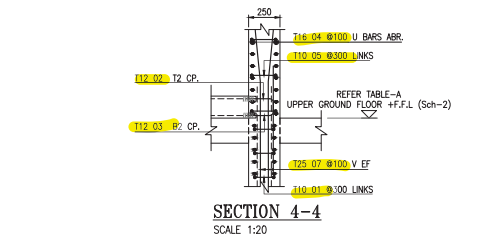
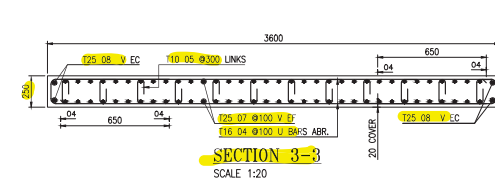
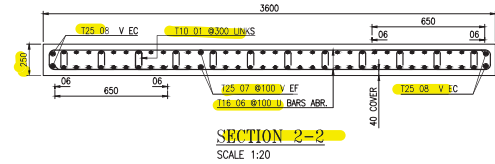
DESIGNING TITLE
MOBILITY & OPPORTUNITY DISTRICT SPECIAL PAVILION (MSR & OSR) GROUND FLOOR TO FIRST FLOOR STAIRCASE WALL REINFORCEMENT DETAILS

APPROVED
MM/MS

DESIGNED
N/A

REVISIONS		
1	1:20 & 1:50	1

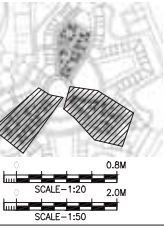
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KEY PLAN



GENERAL NOTES:

- 1) ALL DIMENSIONS ARE IN MILLIMETER
- 2) ALL LEVELS ARE IN METER
- 3) CONCRETE GRADE F/C 50MPa
- 4) REINFORCEMENT GRADE Fy = 460MPa
- 5) LAP LENGTH = AS PER LAP TABLE

BAR SIZE	LAP SPICE AND DEVELOPMENT SCHEDULE		TOP BARS		OTHERS		MINIMUM STANDARD HOOK	
	Ld	LAP	Ld	LAP	Ld	LAP	Ld	LAP
10	425	525	325	425	200			
12	500	650	375	500	200			
16	650	850	500	650	250			
20	825	1050	625	825	300			
25	1250	1625	975	1250	425			
32	1600	2075	1225	1600	550			
40	2000				775			

WHERE HORIZONTAL BAR REINFORCEMENT IS PLACED MORE THAN 300MM OF FRESH CONCRETE IS CAST BELOW THE DEVELOPMENT LENGTH OR SPICE, THEN THE SPICE LENGTH SHOULD BE TOP. a) CONCRETE COVER TO REINFORCEMENT WALL ALL SIDES : 20mm

No	Description	REVISIONS
1	First Issue	30/11/2017 MGB/KTS
2	Explanatory Note	Date: 23rd Apr

No	Explnatory Note	Date	Drawn	Checkd
1				

PROGRAM/PROJECT MANAGEMENT CONSULTANT:

ch2m hillebrand mace

DESIGN CONSULTANT: Hopkins Architects

CONSULTANT: e.construct

MAIN CONTRACTOR: Al-Furjan

Carillion

SUB-CONTRACTOR: CSI NETWORK SERVICES

CAOS

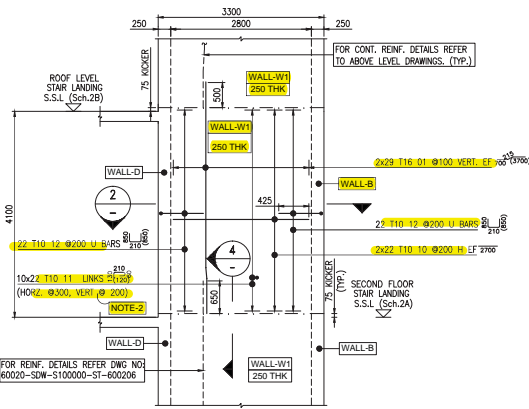
THEMATIC DISTRICTS MAIN CONTRACTOR-60020

MOBILITY & OPPORTUNITY DISTRICT SPECIAL PAVILION (MSR & OSR)

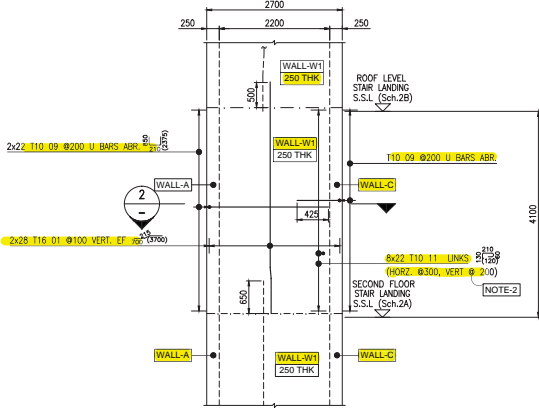
SECOND FLOOR TO ROOF LEVEL LIFT WALL REINFORCEMENT DETAILS

Approved	Drawn	Checked	Revision No
M/M/S	MGB	KTS	1
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

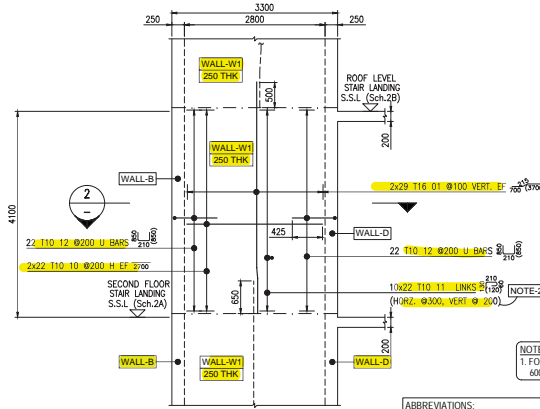
60020-SDW-S100000-ST-600214



WALL-A
SCALE 1:50



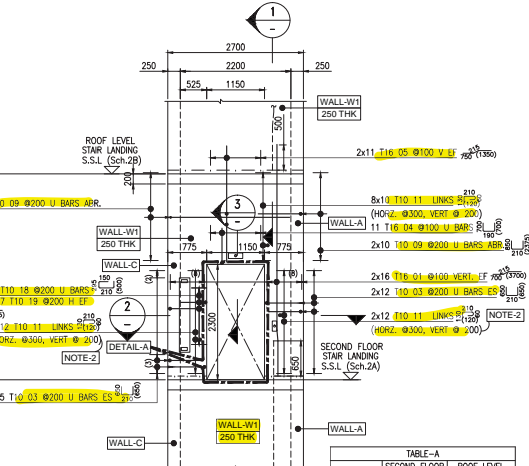
WALL-B
SCALE 1:50



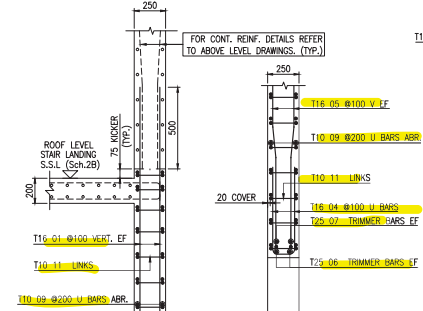
WALL-C
SCALE 1:50

ES - EACH SIDE	EF - EACH FACE
T.O.S - TOP OF SLAB	H - HORIZONTAL
T1 - TOP FIRST LAYER	V - VERTICAL
T2 - TOP SECOND LAYER	THK - THICKNESS
B1 - BOTTOM FIRST LAYER	TYP. - TYPICAL
B2 - BOTTOM SECOND LAYER	CP - COUPLER BARS
ADDL - ADDITIONAL	HB - HOLDING BARS
ABR - ALTERNATE BARS REVERSED	

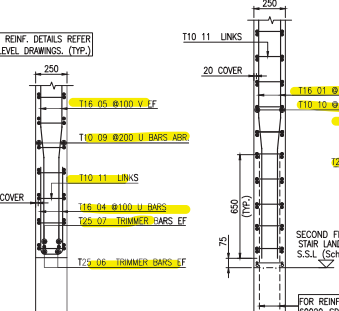
NOTES:
1. FOR BBS REFER TO BBS NO. 60020-SDW-S100000-ST-600214



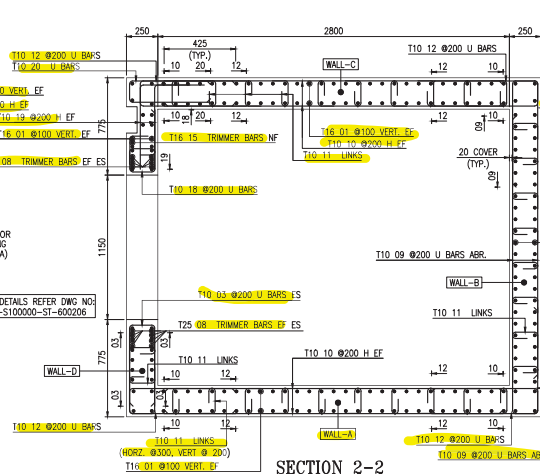
WALL-D
SCALE 1:50



SECTION 1-1
SCALE 1:20



SECTION 3-3
SCALE 1:20



SECTION 4-4
SCALE 1:20

NOTE 1:
FOR CONCRETE DIMENSIONS REFER CONCRETE DIMENSIONS DRAWINGS.

NOTE 2:
LINKS SHOULD BE PLACED VERTICALLY @ 200 SPACING AS PER HORIZONTAL BAR SPACING

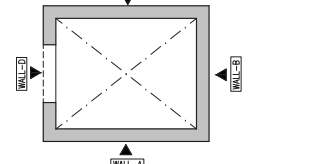
GENERAL ARRANGEMENT DRAWINGS:	
1. MOBILITY DISTRICT SPECIAL PAVILION TYPE-A SECOND FLOOR GENERAL ARRANGEMENT PLAN	60020-SDW-S105655-ST-202901 TO 600014
2. OPPORTUNITY DISTRICT SPECIAL PAVILION TYPE-B SECOND FLOOR GENERAL ARRANGEMENT PLAN	60020-SDW-S105455-ST-202901 TO 600014
3. MOBILITY DISTRICT SPECIAL PAVILION TYPE-A ROOF LEVEL GENERAL ARRANGEMENT PLAN	60020-SDW-S105655-ST-2R9901 TO 600014
4. OPPORTUNITY DISTRICT SPECIAL PAVILION TYPE-B ROOF LEVEL GENERAL ARRANGEMENT PLAN	60020-SDW-S105455-ST-2R9901 TO 600014

SHOP DRAWINGS:	
1. MOBILITY DISTRICT FIRST FLOOR & SECOND FLOOR SLAB REINFORCEMENT DETAILS	60020-SDW-S105655-ST-600901 TO 600014
2. OPPORTUNITY DISTRICT FIRST FLOOR & SECOND FLOOR SLAB REINFORCEMENT DETAILS	60020-SDW-S105455-ST-600901 TO 600014
3. MOBILITY DISTRICT SLAB REINFORCEMENT DETAILS	60020-SDW-S105655-ST-6R9905 TO 6R9909
4. MOBILITY & OPPORTUNITY DISTRICT FIRST FLOOR TO SECOND FLOOR LIFT WALL REINFORCEMENT DETAILS	60020-SDW-S100000-ST-600206

CONTRACT DRAWING REFERENCE:	
1. GENERAL NOTES	10026-DWG-S100000-ST-100003 & 100004 (A)
2. STANDARD DETAIL	10026-DWG-S100000-ST-600016 (B) & 400026 TO 400028 (A)
3. STANDARD DETAILS	10026-DWG-S100000-ST-600008 (C) & 600019 (A)
4. GROUND FLOOR FLOOR SLAB LAYOUT	10026-DWG-S100000-ST-202020 (E)
5. STAR DETAILS	10026-DWG-S100000-ST-600003 (B)
6. WALL REINFORCEMENT SCHEDULE	10026-DWG-S100000-ST-700005 (F)
7. LIFT DOOR DETAILS	60020-SDW-S105600-VF-200001 & 400001 (I)
8. LIFT DOOR DETAILS	60020-SDW-S105400-VF-200001 & 400001 (I)

RFI REFERENCE:
1. AFC-RFI-000300
2. AFC-RFI-001158

1) Ensure to coordinate with 60020-SDW-S105400-VF-400003 (I) & 60020-SDW-S105500-VF-400003 (I)
2) Ensure to coordinate with Respective Ventilation Drawing to provide Lift Shaft Ventilation Opening at Second Floor



KEY PLAN
NTS

BAR MARKS TO BE READ AS:	
MULTIPLIER	1x25 01 @175 B1
NO. OF BARS	1
NO. OF BAR	1
BAR MARK	1

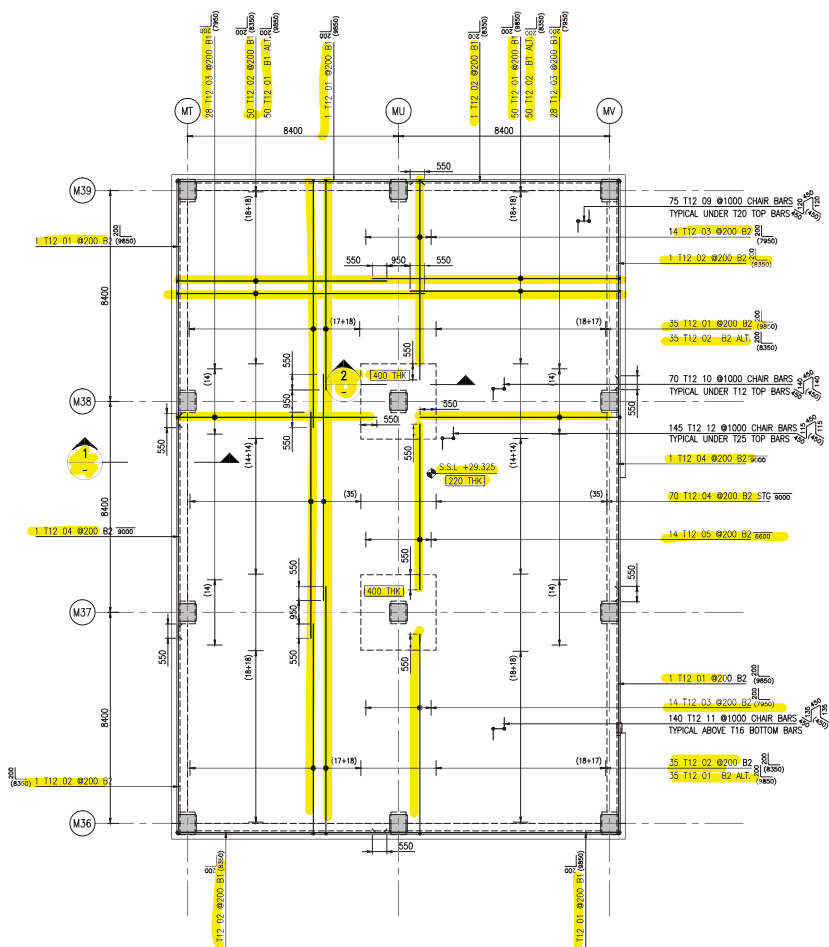
CERTIFICATION
THE CONTRACTOR CERTIFIES THAT THIS DRAWING HAS BEEN COORDINATED, CHECKED FOR COMPLIANCE WITH THE CONTRACT.

REVIEWED BY DISCIPLINE	STATUS	SIGNATURE	DATE
Architectural (PA)	B	GW	17/12/17
Structural (Structural)	B	Ramy Shaw	11/02/2017
Structural (Structural)	B	Ramy Shaw	11/02/2017
Electrical (Phone Lead)	N/A	GP	11/02/2017
Mechanical (Phone Lead)	N/A	GP	11/02/2017
Planning (Phone Lead)	N/A	GP	11/02/2017
Others	N/A	GP	11/02/2017

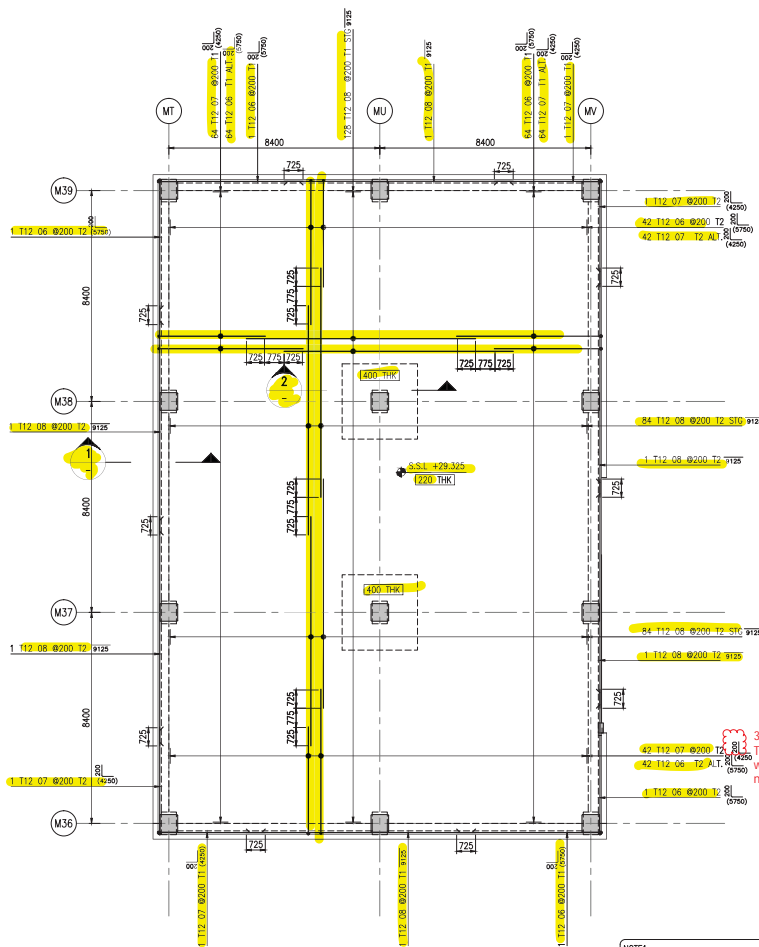
REVISION	DESCRIPTION	DATE
1	RECEIVED FOR INFORMATION	17/12/17
2	APPROVED	17/12/17
3	REJECTED	17/12/17
4	RECEIVED FOR INFORMATION	17/12/17

17/12/17

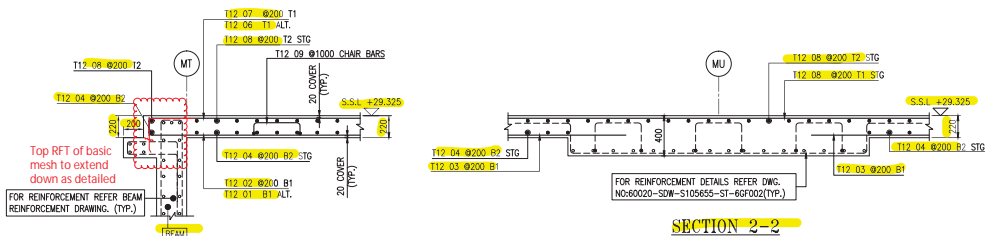
HAZ. Note: Also refer to and read in conjunction with comments on relevant General Arrangement



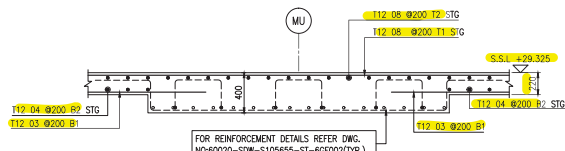
**GROUND FLOOR SLAB
BOTTOM REINFORCEMENT**
SCALE 1:100



**GROUND FLOOR SLAB
TOP REINFORCEMENT**
SCALE 1:100



SECTION 1-1
SCALE 1:25



SECTION 2-2
SCALE 1:25

REINFORCEMENT:
1.AFC-RF-000303
2.AFC-RF-000422
3.AFC-RF-000501
4.AFC-RF-000550
5.AFC-RF-000566
6.AFC-RF-000576
7.AFC-RF-000632
8.AFC-RF-000646
9.AFC-RF-000662
10.AFC-RF-000723

NOTES:
1. FOR BBS REFER TO BBS NO.
60020-BBS-S105655-S100301

CONTRACT DRAWING REFERENCE:
1. GENERAL NOTES - 10026-DWG-S100000-ST-100004 REV A
2. STANDARD DETAILS - 10026-DWG-S100000-ST-600019 REV A
3. GROUND FLOOR SLAB LAYOUT - 10026-DWG-S100000-ST-26F017 REV D
4. SLAB REIN. SCHEDULES - 10026-DWG-S100000-ST-700005 REV E

GENERAL ARRANGEMENT DRAWINGS:
1. MOBILITY DISTRICT GROUND LEVEL KEY PLAN - 60020-SDW-S105600-ST-2GF001
2. MOBILITY DISTRICT GROUND LEVEL GENERAL ARRANGEMENT PLAN - 60020-SDW-S105600-ST-2GF012
3. MOBILITY DISTRICT GROUND LEVEL SECTION DETAILS - 60020-SDW-S104200-ST-4GF014

NOTE:
CHAIRS SPACING TO BE SET AT 1200mm MAX IN BOTH DIRECTIONS.

NOTE:
FOR CONCRETE DIMENSIONS REFER CONCRETE DIMENSIONS DRAWINGS.

NOTE:
FOR OPENING SIZE LESS THAN 500mm BARS TO BE CUT AND SUIT AT SITE.

NOTE:
HOOKS TO BE TILT AT SITE TO ACCOMMODATE COVER.

HADL NOTE: Also refer to and read in conjunction with comments on relevant General Arrangement Drawings

CERTIFICATION			
THE CONTRACTOR CERTIFIES THAT THIS DRAWING HAS BEEN COORDINATED, CHECKED FOR COMPLIANCE WITH THE CONTRACT.			
ENGINEER DOCUMENT REVIEW			
Document reviewed for compliance with the design contract and is not checked for accuracy or suitability of purpose. This review does not release the contractor from the contractual obligations, nor does it authorize changes in the Contract Sum / Period.			
<input type="checkbox"/> A	NO OBJECTION		
<input type="checkbox"/> B	NO OBJECTION WITH COMMENTS		
<input type="checkbox"/> C	REJECTED AND RESUBMIT		
<input type="checkbox"/> D	REJECTED FOR INFORMATION		
REVIEWED BY DISCIPLINE	STATUS	SIGNATURE	DATE
Architectural (P&S)	B	GW	12/09/17
Structural Engineering (Structural)			
Structural Engineering (Mechanical)			
Electrical (Electrical)	B	Tamir	10/09/2017
Mechanical (Mechanical)			
Planning (Planning)			
Others			
SUBMITTAL TRANSMITTAL NO.			
ENGINEER'S SIGNATURE			
DATE			12/09/17

KEY PLAN

MOBILITY DISTRICT

General Notes:

- ALL DIMENSIONS ARE IN MILLIMETER
- ALL LEVELS ARE IN METER
- CONCRETE GRADE F.C. COMP. 40
- REINFORCEMENT GRADE Fy = 460MPa
- LAP LENGTH = AS PER LAP TABLE

LAP SPICE AND DEVELOPMENT SCHEDULE
(Fc=40Mpa, Fy=460Mpa)

BAR SIZE	TOP BARS	OTHERS	MINIMUM STANDARD HOOK
12	550	725	425
16	725	860	575
20	925	1175	700
25	1400	1825	1075
32	1800	2325	1375
40	2225	COUPLER	775

WHERE HORIZONTAL BAR REINFORCEMENT IS PLACED MORE THAN 300MM OF FRESH CONCRETE IS CAST BELOW THE DEVELOPMENT LENGTH OR SPICE, THEN THE SPICE LENGTH SHOULD BE TOP.

CONCRETE COVER TO REINFORCEMENT

LOWER SLAB:
TOP = 50mm
BOTTOM = 20mm

UPPER SLAB:
TOP & BOTTOM = 20mm

BAR MARKS TO BE READ AS:
1x8 12 01 Ø175 B1

ABBREVIATIONS:
S.S.L. - STRUCTURAL SLAB LEVEL
T1 - TOP FIRST LAYER
T2 - TOP SECOND LAYER
B1 - BOTTOM FIRST LAYER
B2 - BOTTOM SECOND LAYER
ADD'L - ADDITIONAL
ABR - ALTERNATE BAR REVERSED
STG - STAGGERED
ALT - ALTERNATE BAR
EF - EACH FACE
H - HORIZONTAL
V - VERTICAL
TBC - TO BE CONFIRMED

REVISIONS:

No.	FOR APPROVAL	DATE	BY	DATE	BY
1	FOR APPROVAL	09/09/17	ATE		
2	FOR APPROVAL	09/09/17	ATE		

CLIENT:

PROGRAM/PROJECT MANAGEMENT CONSULTING:

DESIGN CONSULTANT:

CONSULTANT:

MAIN CONTRACTOR:

SUB-CONTRACTOR:

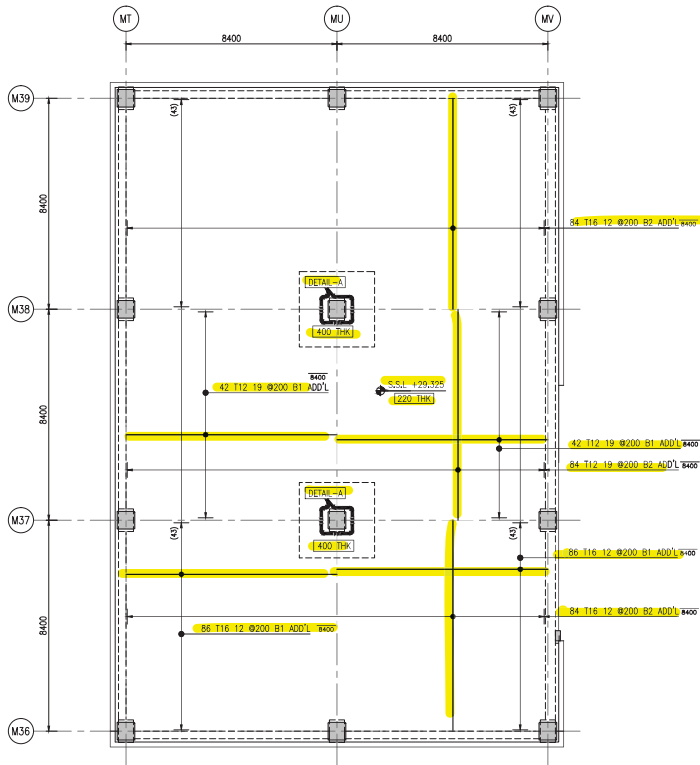
PROJECT: THEMATIC DISTRICTS MAIN CONTRACTOR-60020

Drawing Title: MOBILITY DISTRICT - SPECIAL PAVILION (MSR) GROUND FLOOR SLAB REINFORCEMENT DETAILS (SHEET 1)

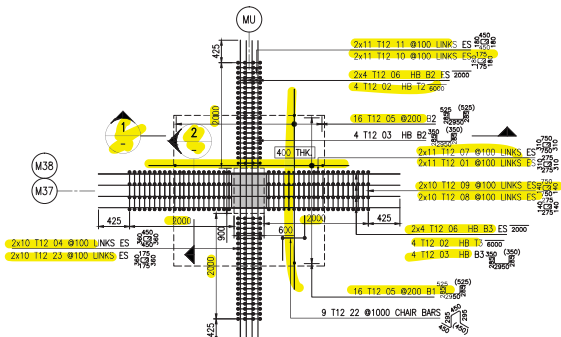
Drawing No: 60020-SDW-S105655-ST-6GF001

Sheet No: 1

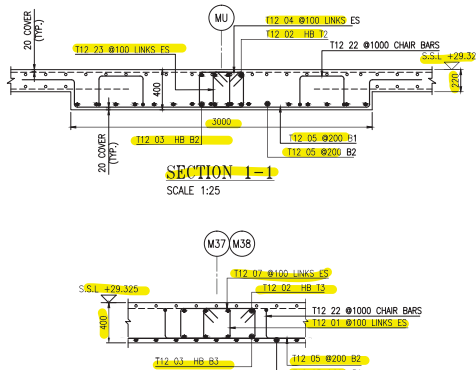
Scale: AS SHOWN



**GROUND FLOOR SLAB
BOTTOM ADDITIONAL REINFORCEMENT**
SCALE 1:100

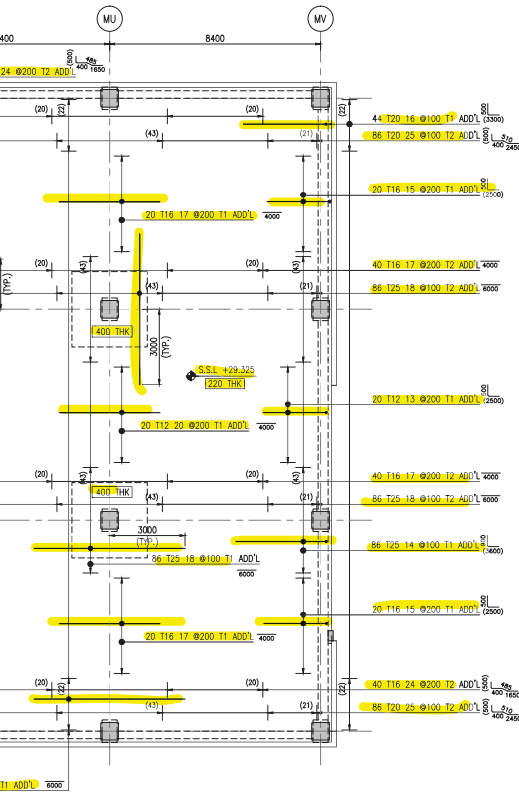


DETAIL-A
SCALE 1:50 (2 Nos.)



SECTION 2-2
SCALE 1:25

SECTION 1-1
SCALE 1:25



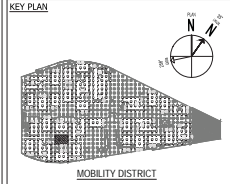
**GROUND FLOOR SLAB
TOP ADDITIONAL REINFORCEMENT**
SCALE 1:100

- NOTE1:**
CHAIRS SPACING TO BE SET AT 1200mm MAX IN BOTH DIRECTIONS.
- NOTE2:**
FOR CONCRETE DIMENSIONS REFER CONCRETE DIMENSIONS DRAWINGS.
- NOTE3:**
FOR OPENING SIZE LESS THAN 500mm BARS TO BE CUT AND SUIT AT SITE.
- NOTE4:**
HOOKS TO BE TILT AT SITE TO ACCOMMODATE COVER.
- NOTES:**
1. FOR BBS REFER TO BBS NO- 60020-BBS-S105655-ST-000302

REL REFERENCE:
1.AFC-RF-000303
2.AFC-RF-000422
3.AFC-RF-000501
4.AFC-RF-000550
5.AFC-RF-000566
6.AFC-RF-000576
7.AFC-RF-000632
8.AFC-RF-000646
9.AFC-RF-000662
10.AFC-RF-000723

CONTRACT DRAWING REFERENCE:
1. GENERAL NOTES - 10026-DWG-S100000-ST-100004 REV A
2. STANDARD DETAILS - 10026-DWG-S100000-ST-600019 REV A
3. GROUND FLOOR SLAB LAYOUT - 10026-DWG-S100000-ST-260117 REV D
4. SLAB REIN. SCHEDULES - 10026-DWG-S100000-ST-700005 REV E

GENERAL ARRANGEMENT DRAWINGS:
1. MOBILITY DISTRICT GROUND LEVEL KEY PLAN - 60020-SDW-S105600-ST-260001
2. MOBILITY DISTRICT GROUND LEVEL GENERAL ARRANGEMENT PLAN - 60020-SDW-S105600-ST-260112
3. MOBILITY DISTRICT GROUND LEVEL SECTION DETAILS - 60020-SDW-S104200-ST-460114



MOBILITY DISTRICT

- General Notes:**
1) ALL DIMENSIONS ARE IN MILLIMETER
2) ALL LEVELS ARE IN METER
3) CONCRETE GRADE F'C 40MPa
4) REINFORCEMENT GRADE fy = 460MPa
5) LAP LENGTH = AS PER LAP TABLE

LAP SPUCE AND DEVELOPMENT SCHEDULE (f _c =40Mpa, f _y =460Mpa)					
BAR SIZE	TOP BARS	OTHERS	MINIMUM STANDARD HOOK		
12	550	725	425	550	200
16	725	950	575	725	250
20	925	1175	700	925	300
25	1400	1825	1075	1400	425
32	1800	2325	1375	1800	550
40	2225	COUPLER		775	

WHERE HORIZONTAL BAR REINFORCEMENT IS PLACED MORE THAN 300MM OF FRESH CONCRETE IS CAST BELOW THE DEVELOPMENT LENGTH OR SPUCE, THEN THE SPUCE LENGTH SHOULD BE TOP.

6) CONCRETE COVER TO REINFORCEMENT

LOWER SLAB:

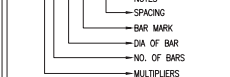
TOP = 50mm

BOTTOM = 20mm

UPPER SLAB:

TOP & BOTTOM = 20mm

7) BAR MARKS TO BE READ AS:



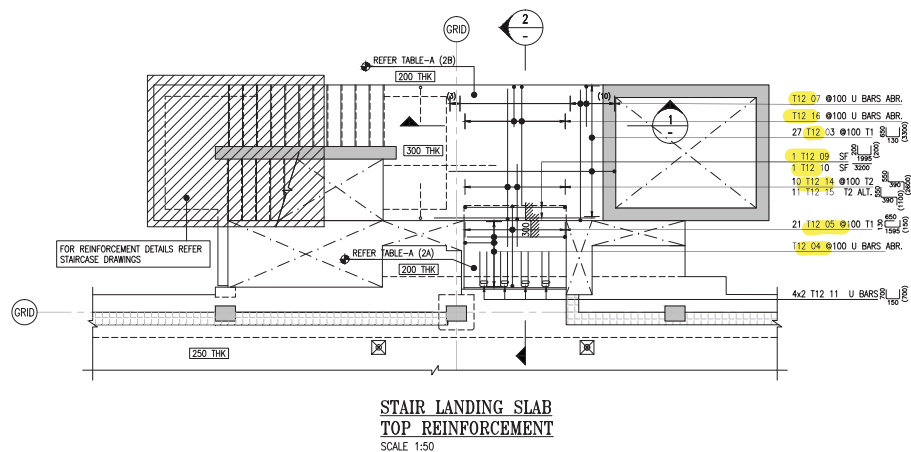
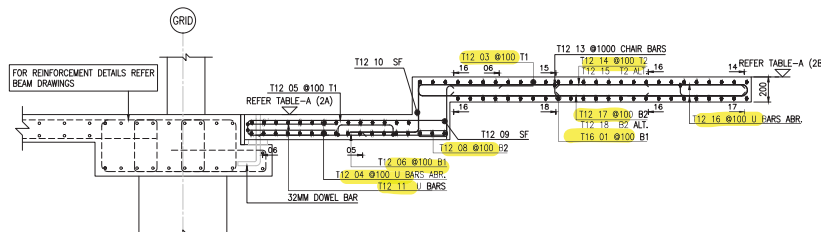
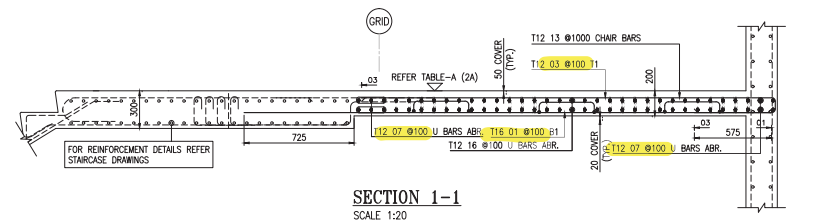


TABLE-A			
S.NO	BUILDING	ROOF SLAB	
		SSL (2A)	SSL (2B)
1	OSR	38.040	38.340
2	MSR	42.565	42.865

RFI REFERENCE:

1. AFC-RFI-000271
2. AFC-RFI-000286
3. AFC-RFI-000386
4. AFC-RFI-000389
5. AFC-RFI-000477
6. AFC-RFI-000485
7. AFC-RFI-000543
8. AFC-RFI-000698
9. AFC-RFI-000685
10. AFC-RFI-000617
11. AFC-RFI-000619
12. AFC-RFI-000625
13. AFC-RFI-000665



SECTION 2-2
SCALE 1:20

NOTES:
1. FOR BBS REFER TO BBS NO:
60020-BBS-S105655-ST-000512

NOTE 1:

NOTE2:
FOR CONCRETE DIMENSIONS REFER CONCRETE DIMENSIONS DRAWINGS.

NOTE3:
FOR OPENING SIZE LESS THAN 500mm BARS TO BE CUT AND SUIT AT SITE.

NOTE4:
HOOKS TO BE TILT AT SITE TO ACCOMMODATE COVER.

NOTE 5:
REINFORCEMENT SHOWN ON THIS DRG ARE SCHEDULED
FOR ONE TYPE OF BUILDING ONLY AND THE SAME TO
USED FOR ALL OTHER TYPES LISTED IN TABLE-A

GENERAL ARRANGEMENT DRAWINGS

- | | |
|---|--|
| 1. MOBILITY DISTRICT SUPER STRUCTURE STAIRCASE KEY PLAN | - 60020-SDW-S105600-ST-200004 |
| 2. SUSTAINABILITY DISTRICT SUPER STRUCTURE STAIRCASE KEY PLAN | - 60020-SDW-S105200-ST-200004 |
| 3. OPPORTUNITY DISTRICT SUPER STRUCTURE STAIRCASE KEY PLAN | - 60020-SDW-S105400-ST-200004 |
| 4. SPECIAL PAVILION STAIRCASE (TYPE-A) GROUND FLOOR TO ROOF LEVEL GENERAL ARRANGEMENT SECTIONS & PLAN | - 60020-SDW-S105655-ST-400001 & 400002 |
| 5. SPECIAL PAVILION STAIRCASE (TYPE-B) GROUND FLOOR TO ROOF LEVEL GENERAL ARRANGEMENT SECTIONS & PLAN | - 60020-SDW-S105455-ST-400001 & 400002 |

CONTRACT DRAWING REFERENCE:

- | | |
|---|--|
| 1. GENERAL NOTES | - 10026-DWG-S100000-ST-100004(A) |
| 2. STANDARD DETAILS | - 10026-DWG-S100000-ST-60019(A) |
| 3. MOBILITY DISTRICT FIRST & SECOND FLOOR SLAB LAYOUT | - 10026-DWG-S105600-ST-200002 TO 200006(B) |
| 4. OPPORTUNITY DISTRICT FIRST & SECOND FLOOR SLAB LAYOUT | - 10026-DWG-S105400-ST-200002 TO 200006(B) |
| 5. SUSTAINABILITY DISTRICT FIRST & SECOND FLOOR SLAB LAYOUT | - 10026-DWG-S105200-ST-200002 TO 200006(B) |
| 6. CAST DETAILS | - 10026-DWG-S100000-ST-600003(C)&600054(E) |
| 7. STAIR DETAILS | - 10026-DWG-S100000-ST-600010 (C) |
| 8. STAIR PLAN DETAILS | - 10026-DWG-S100000-ST200110 (A) |
| 9. LINK BRIDGE DETAILS | - 10026-DWG-S100000-ST-200109 (A) |

HADL Note: Also refer to and read in conjunction with comments on relevant General Arrangement

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DO NOT SCALE THIS DRAWING

KEY PLAN



General Notes:

- 1) ALL DIMENSIONS ARE IN MILLIMETER
- 2) ALL LEVELS ARE IN METER
- 3) CONCRETE GRADE Fc C40MPa
- 4) REINFORCEMENT GRADE Fy = 460MPa
- 5) LAP LENGTH = AS PER LAP TABLE

BAR SIZE	TOP BARS		OTHERS		MINIMUM STANDARD HOOK
	Ld	LAP	Ld	LAP	
10	475	600	350	475	200
12	550	725	425	550	200
16	725	950	575	725	250
20	925	1175	700	925	300
25	1400	1825	1075	1400	425
32	1800	2325	1375	1800	550
40	2225		COUPLER		775

PLACED MORE THAN 300MM OF FRESH CONCRETE IS CAST BELOW THE DEVELOPMENT LENGTH OR SPLICE, THEN THE SPLICE LENGTH SHOULD BE TO

6) CONCRETE COVER TO REINFORCEMENT
ROOF SLAB : BOTTOM - 50mm
TOP - 20mm

No	Description
----	-------------

SAFETY, HEALTH AND ENVIRONMENT INFORMATION
Brief details on the identified hazard symbol referencing
unusual residual hazards / risks are listed above.

REVISIONS

1	FIRST ISSUE	29/11/2017	ITU	PKA	-		
No.	Explanatory Note	Date	Dra	Chk	App		

CLIENT:  **EXPO 2020**
The World's First Sustainability Expo
Dubai, United Arab Emirates

PROGRAMME/PROJECT MANAGEMENT CONSULTANT:
ch2m mace

DESIGN CONSULTANT:
Hopkins Architects

CONSULTANT:
e.construct

MAIN CONTRACTOR:  **التطير والبناء**
Al-Futtaim  **carillion**

20th Fl., Central Tower
Water City, Dubai, U.A.E
P.O.Box 1911

Tel: 04-3889222
Fax: 04-3889136
E-mail: info@startrades.com, marketing@startrades.com

SUB-CONTRACTOR:

CADSW

CSI NETWORK SERVICES
P.O. BOX 47366, DUBAI U. A. E
TEL: 971 4 3866473 FAX 971 4 3866498
info@csi-network.com

Project
THEMATIC DISTRICTS MAIN CONTRACTOR-60020

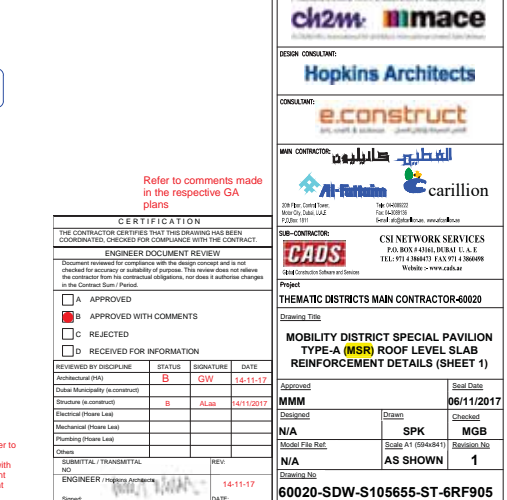
Drawing Title

**SPECIAL PAVILION TYPE-A & B ROOF
STAIR LANDING SLAB REINFORCEMENT
DETAILS**

Approved	Seal Date
MMM/SS	29/11/201

<u>Designed</u>	<u>Drawn</u>	<u>Checked</u>
N/A	ITU	PKA
<u>Model File Ref.</u>	<u>Scale A1 (594x841)</u>	<u>Revision No</u>
N/A	AS SHOWN	1

Drawing No
60020-SDW-S105655-ST-6RF512



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DO NOT SCALE THIS DRAWING.

KEY PLAN



General Notes:

- 1) ALL DIMENSIONS ARE IN MILLIMETER
- 2) ALL LEVELS ARE IN METER
- 3) CONCRETE GRADE: F_{ck} 40MPa
- 4) REINFORCEMENT GRADE: F_y = 460MPa
- 5) LAP LENGTH - AS PER LAP TABLE

LAP SPICE AND DEVELOPMENT SCHEDULE (F _{ck} =40MPa, F _y =460MPa)					
BAR SIZE	TOP BARS	OTHERS	DEVELOPMENT HOOK	STANDARD	
10	475	400	175	200	
12	550	475	200	250	
16	725	575	250	300	
20	925	700	300	350	
25	1400	1075	400	425	
32	1800	1375	500	550	
40	2225	1700	600	675	

WHERE HORIZONTAL BAR REINFORCEMENT IS PLACED MORE THAN 300MM OF FRESH CONCRETE IS CAST BELOW THE DEVELOPMENT LENGTH OR SPICE, THEN THE SPICE LENGTH SHOULD BE TOP.

a) CONCRETE COVER TO REINFORCEMENT

ROOF SLAB

TOP = 5mm & BOTTOM = 20mm

20mm

No Description

SAFETY, HEALTH AND ENVIRONMENT INFORMATION
Brief details on the identified hazard symbol referencing the unusual residual hazards / risks are listed above.

REVISIONS

No.	Description	Date	By	Appr.
1	REDESIGN AS PER B1 NO.33	06/11/2017	SPK	MMB

CLIENT:

PROGRAM/PROJECT MANAGEMENT CONSULTING:
PROGRAM/PROJECT MANAGEMENT CONSULTING:

DESIGN CONSULTANT:

CONSULTANT:

MAIN CONTRACTOR:

DESIGNER:

SUB-CONTRACTOR:

PROJECT:
THEMATIC DISTRICTS MAIN CONTRACTOR-60020

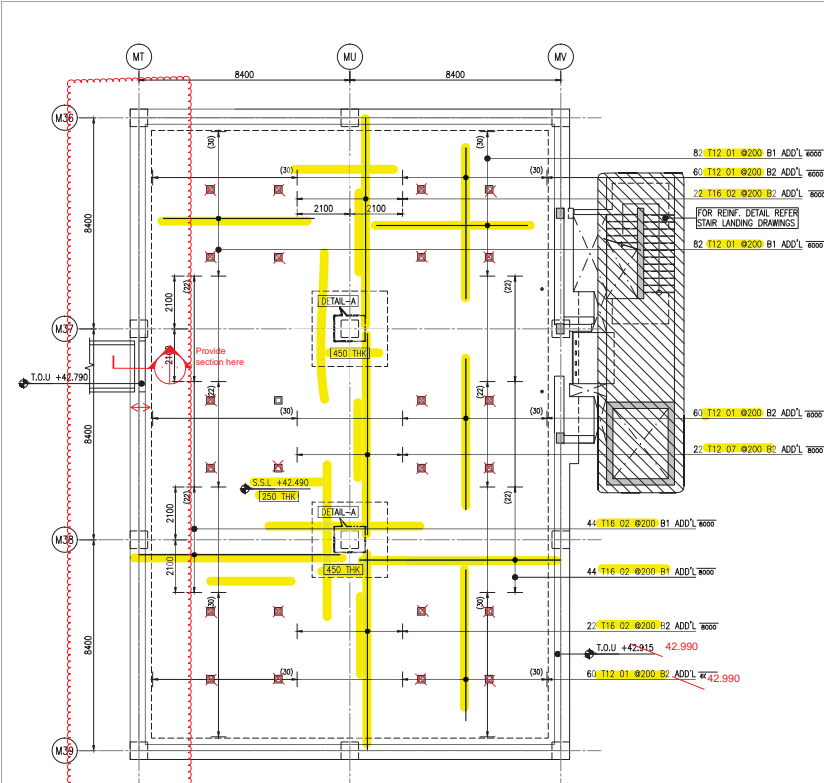
Drawings Title:
MOBILITY DISTRICT SPECIAL PAVILION
TYPE-A (MSR) ROOF LEVEL SLAB ADD'L
REINFORCEMENT DETAILS (SHEET 2)

Approved:

Design:

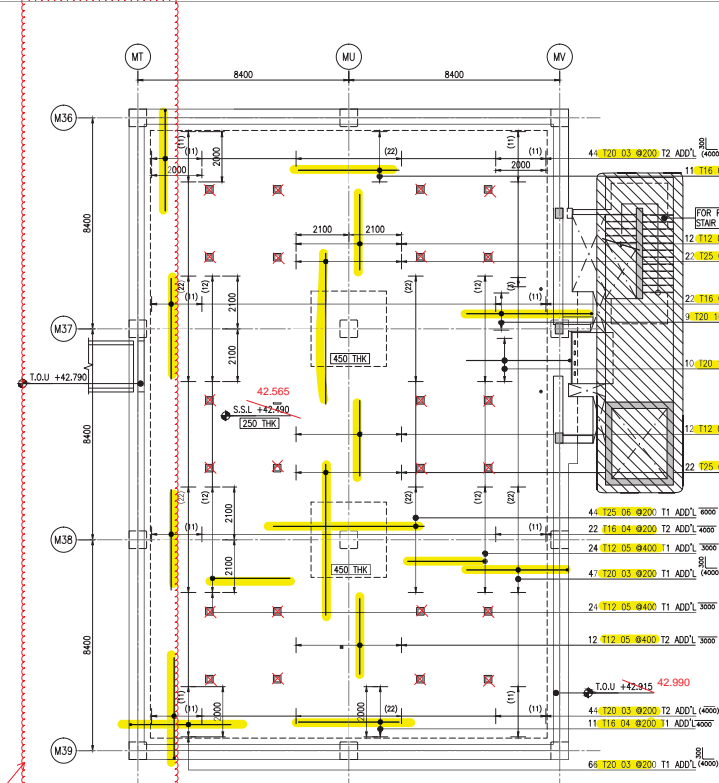
Scale: AS SHOWN

60020-SDW-S105655-ST-6TF906



SLAB BOTTOM ADDITIONAL REINFORCEMENT
SCALE 1:100

Beam width shall be increase 1050 as per RFI response 001250, and provide section in bridge



SLAB TOP ADDITIONAL REINFORCEMENT
SCALE 1:100

Beam width shall be increase 1050 as per RFI response 001250, and provide section in bridge

NOTES:
1. FOR BBS REFER TO BBS NO. 60020-BBS-S105655-ST-000096

REDESIGN AS PER SITE INSTRUCTION - 33.

GENERAL ARRANGEMENT DRAWINGS:
1. MOBILITY KEY PLAN - 60020-SDW-S105655-ST-200001
2. ROOF GENERAL ARRANGEMENT PLAN & SECTIONS - 60020-SDW-S105655-ST-2RF066
3. LINK BRIDGE CONNECTION DETAILS - 60020-SDW-S100000-ST-200011 & 012

CONTRACT DRAWING REFERENCE:
1. GENERAL NOTES - 10026-DWG-S100000-ST-100004 (A)
2. STANDARD DETAILS - 10026-DWG-S100000-ST-600019 (A)
3. ROOF SLAB LAYOUT - 10026-DWG-S105655-ST-2RF002 TO 2RF005(A)
4. TYPICAL SLAB TOP & BOTTOM REIN. LAYOUT - 10026-DWG-S100000-ST-200107(A)
5. PRECAST GLADDING REIN. DETAILS - 10026-DWG-S100000-ST-600039(D)

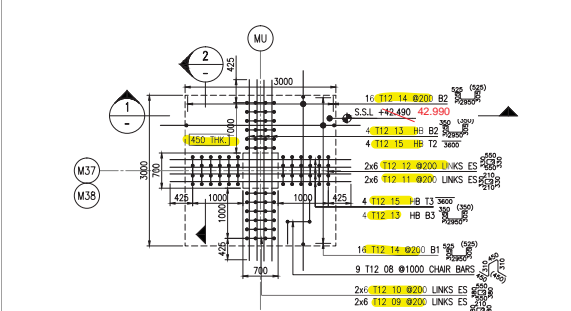
NOTE: CHAIRS SPACING TO BE SET AT 120mm MAX IN BOTH DIRECTIONS.

NOTE: FOR CONCRETE DIMENSIONS REFER CONCRETE DIMENSIONS DRAWINGS.

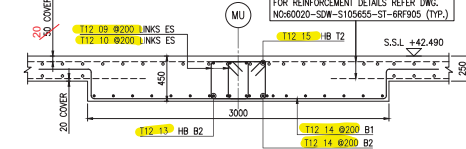
NOTE: FOR OPENING SIZE LESS THAN 500mm BARS TO BE CUT AND SUIT AT SITE.

NOTE: HOOKS TO BE TILT AT SITE TO ACCOMMODATE COVER.

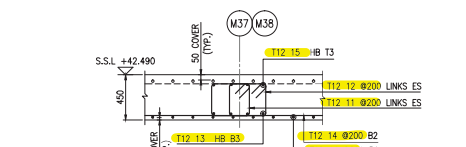
HADL Note: Also refer to and read in conjunction with comments on relevant General Arrangement



DETAIL A
SCALE 1:50 (2 Nos.)



SECTION 1-1
SCALE 1:25



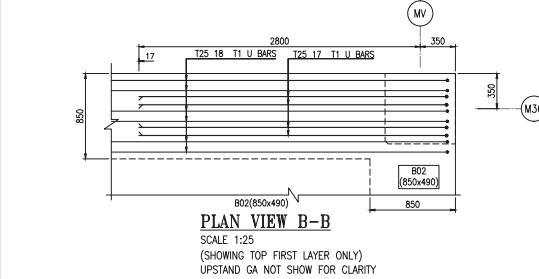
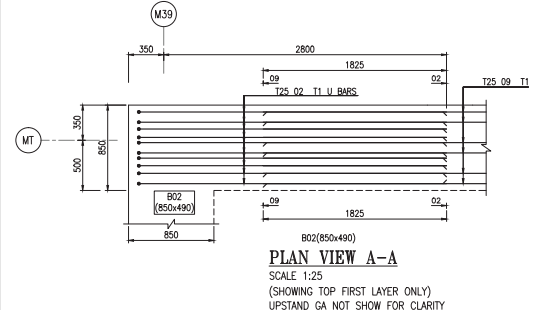
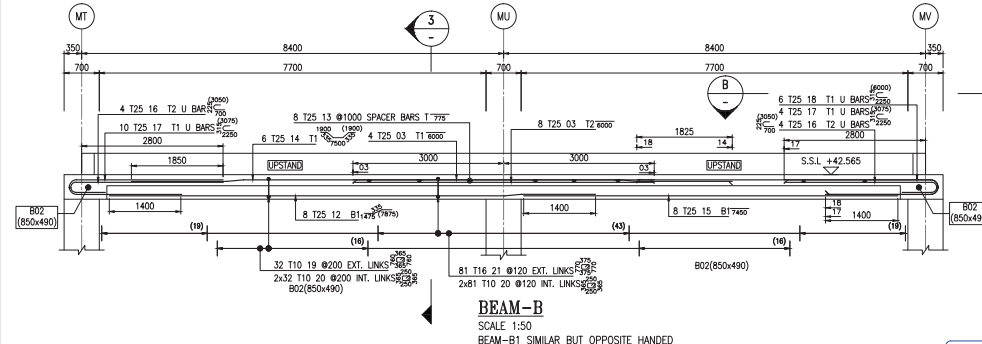
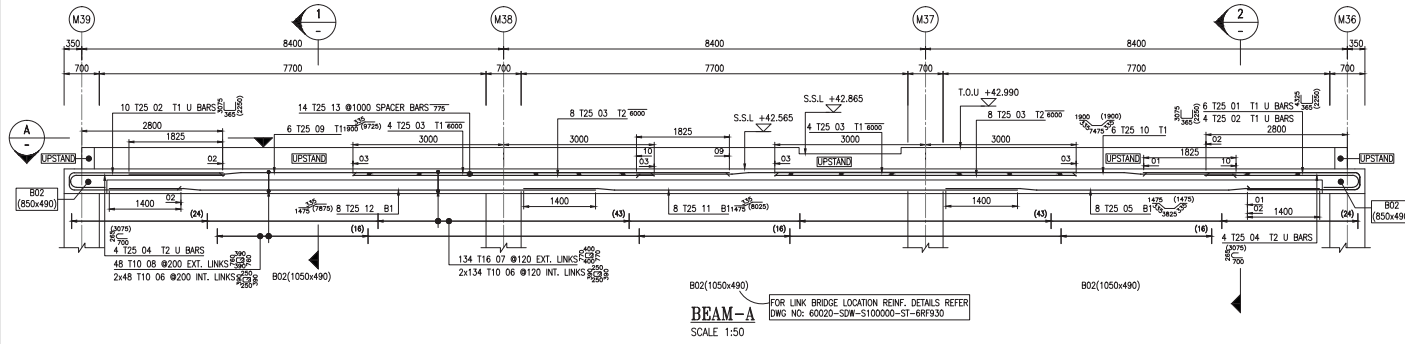
SECTION 2-2
SCALE 1:25

ABBREVIATIONS:
T.O.C - TOP OF CONCRETE
B.O.C - BOTTOM OF CONCRETE
T.O.S - TOP OF SLAB
T.O.F - TOP OF FOOTING
T1 - TOP FIRST LAYER
T2 - TOP SECOND LAYER
B1 - BOTTOM FIRST LAYER
B2 - BOTTOM SECOND LAYER
PB - PULLOUT BAR
THK - THICKNESS
ABR - ALTERNATE BARS REVERSED
BAR MARKS TO BE READ AS:
MULTIPLIERS
NO. OF BARS
DIA OF BAR

ES - EACH SIDE
EF - EACH FACE
H - HORIZONTAL
V - VERTICAL
FF - FAR FACE
NF - NEAR FACE
TYP - TYPICAL
STG - STAGGERED
SF - SIDE FACE
ALT - ALTERNATE

REVIEWED BY DISCIPLINE STATUS SIGNATURE DATE
Architectural (MS) B GW 14/11/2017
Structural (MS) B Alab 14/11/2017
Electrical (Phase Lead)
Mechanical (Phase Lead)
Planning (Phase Lead)
Others
SUBMITTAL / TRANSMITTAL
ENGINEER:

14-11-17

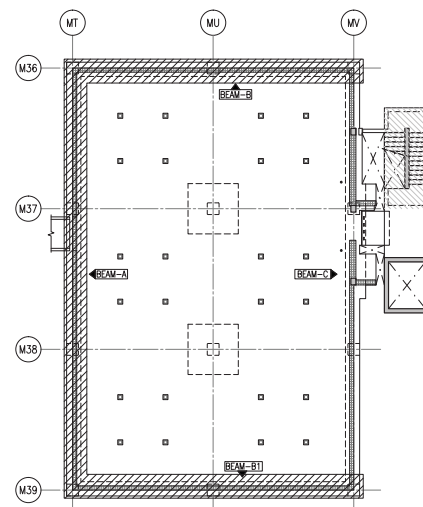
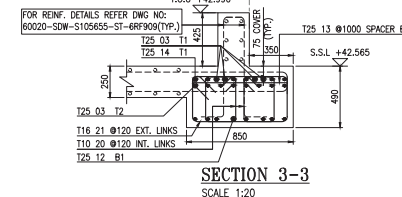
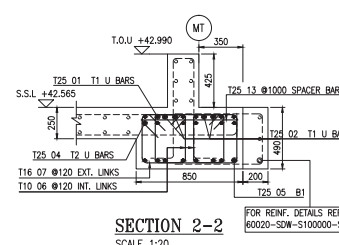
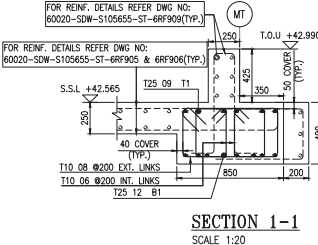


CONTRACT DRAWING REFERENCE:

1. GENERAL NOTES	- 10026-DWG-S100000-ST-100004(A)
2. STANDARD DETAILS	- 10026-DWG-S100000-ST-600019(A)
3. MOBILITY DISTRICT ROOF LEVEL SLAB LAYOUT	- 10026-DWG-S105600-ST-39F001(C)
4. BEAM REINF. LAYOUT	- 10026-DWG-S100000-ST-300011(B)
5. PRECAST CLADDING REINF. DETAILS	- 10026-DWG-S100000-ST-600039(E)

GENERAL ARRANGEMENT DRAWINGS:

1. MOBILITY KEY PLAN - 60020-SDW-S105600-ST-201001	60020-SDW-S105655-ST-2RF066
2. ROOF LEVEL GENERAL ARRANGEMENT PLAN & SECTIONS	60020-SDW-S105655-ST-2RF066
3. LINK BRIDGE CONNECTION DETAILS	- 60020-SDW-S100000-ST-200011 & 200012



REF. RESPONSE:

1.AFC-RFI-000759	2.AFC-RFI-000779
3.AFC-RFI-000774	4.AFC-RFI-000840
5.AFC-RFI-000827	6.AFC-RFI-000843
7.AFC-RFI-001158	8.AFC-RFI-001174
9.AFC-RFI-001152	10.AFC-RFI-001153
11.AFC-RFI-001153	12.AFC-RFI-001158
13.AFC-RFI-001159	14.AFC-RFI-001166
15.AFC-RFI-001175	16.AFC-RFI-001176
17.AFC-RFI-001178	18.AFC-RFI-001179
19.AFC-RFI-001243	

BAR MARKS TO BE READ AS:

MULTIPLIERS	NO. OF BARS	SPACING	DIA OF BAR
1/8 T25 01 @ 175 B1			

ABBREVIATIONS:

T.O.C - TOP OF CONCRETE	ES - EACH SIDE
B.O.C - BOTTOM OF CONCRETE	EF - EACH FACE
T.O.S - TOP OF SLAB	HF - HORIZONTAL
T.O.F - TOP OF FOOTING	V - VERTICAL
T1 - TOP FIRST LAYER	FF - FAR FACE
T2 - TOP SECOND LAYER	NF - NEAR FACE
B1 - BOTTOM FIRST LAYER	TYP - TYPICAL
B2 - BOTTOM SECOND LAYER	STG - STAGGERED
PB - PULLOUT BAR	SF - SIDE FACE
THK - THICKNESS	ALT. - ALTERNATE
ADDL - ADDITIONAL	INT - INTERNAL
ABR - ALTERNATE BARS REVERSED	
T.O.U - TOP OF UPSTAND	EXT - EXTERNAL
S.S.L - STRUCTURAL SLAB LEVEL	

CERTIFICATION

THE CONTRACTOR CERTIFIES THAT THIS DRAWING HAS BEEN EXAMINED AND APPROVED FOR COMPLIANCE WITH THE CONTRACT.

ENGINEER DOCUMENT REVIEW

Document reviewed for compliance with the design concept and is not checked for accuracy or suitability of purpose. This review does not release the contractor from his contractual obligations, nor does it authorize changes in the Contract (as Permitted).

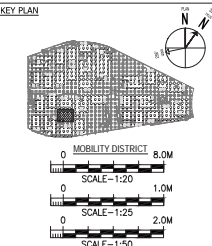
REVIEWED BY DISCIPLINE

Architectural (PA)	A	GW	26/08/18
Structural (Structural)	A	Alex	25/08/2018
Electrical (Electrical)			
Mechanical (Mechanical)			
Plumbing (Plumbing)			
Others			

DATE: 26/08/18

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DO NOT SCALE THIS DRAWING.



GENERAL NOTES:

- 1) ALL DIMENSIONS ARE IN MILLIMETER
- 2) ALL LEVELS ARE IN METER
- 3) CONCRETE GRADE: P/C 40MPa
- 4) REINFORCEMENT GRADE: Fy = 460MPa
- 5) LAP LENGTH - AS PER LAP TABLE

LAP SPICE AND DEVELOPMENT SCHEDULE (Fy=460MPa, fy=460MPa)

BAR SIZE	TOP LAP	OTHERS	STANDARD HOOK
10	475	400	125
12	550	425	200
16	725	575	250
20	925	700	300
25	1400	1075	425
32	1800	1375	550
40	2225	1775	775

WHERE HORIZONTAL BAR REINFORCEMENT IS PLACED MORE THAN 300MM OF FRESH CONCRETE IS CAST BELOW THE DEVELOPMENT LENGTH OR SPLICE, THEN THE SPLICE LENGTH SHOULD BE TOP

a) CONCRETE COVER TO REINFORCEMENT

BEAM-
TOP - 50mm & 75mm
BOTTOM & SIDE - 40mm

AS-BUILT

REVISIONS

No.	Description

SAFETY, HEALTH AND ENVIRONMENT INFORMATION

Identified Hazard	Severity	Control Measures

CLIENT

PROJECT NAME	PROJECT NO.
PROJECT LOCATION	PROJECT DATE

DESIGN CONSULTANT

DESIGN CONSULTANT	DESIGN CONSULTANT
-------------------	-------------------

CONSULTANT

CONSULTANT	CONSULTANT
------------	------------

MAN CONTRACTOR

MAN CONTRACTOR	MAN CONTRACTOR
----------------	----------------

SUB-CONTRACTOR

SUB-CONTRACTOR	SUB-CONTRACTOR
----------------	----------------

PROJECT

PROJECT	PROJECT
---------	---------

THEMATIC DISTRICTS MAIN CONTRACTOR-60020

THEMATIC DISTRICTS MAIN CONTRACTOR-60020	THEMATIC DISTRICTS MAIN CONTRACTOR-60020
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AS-BUILT MOBILITY DISTRICT SPECIAL PAVILION TYPE-A (MSR) ROOF LEVEL BEAM REINFORCEMENT DETAILS (SHEET 2)

AS-BUILT MOBILITY DISTRICT SPECIAL PAVILION TYPE-A (MSR) ROOF LEVEL BEAM REINFORCEMENT DETAILS (SHEET 2)	AS-BUILT MOBILITY DISTRICT SPECIAL PAVILION TYPE-A (MSR) ROOF LEVEL BEAM REINFORCEMENT DETAILS (SHEET 2)
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REVISIONS

No.	Description

REVISIONS

No.	Description

REVISIONS

No.	Description

REVISIONS

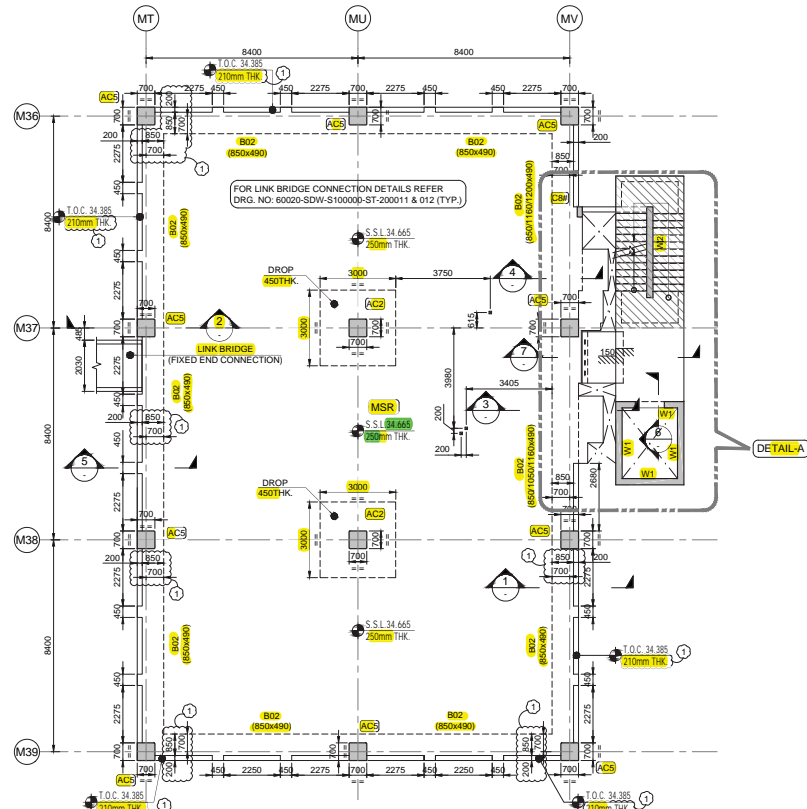
No.	Description

REVISIONS

No.	Description

REVISIONS

No.	Description



ARCHITECTURAL OPENING DRAWING REFERENCE:
1. 10026-DWG-S105600-AR-201001 REV A

CONTRACT DRAWING REFERENCE:
1. 10026-DWG-S100000-ST-200104 REV A
2. 10026-DWG-S100000-ST-600003 REV D
3. 10026-DWG-S100000-ST-700004 REV B
4. 10026-DWG-S100000-ST-700005 REV G
5. 10026-DWG-S100000-ST-700006 REV D
6. 10026-DWG-S100000-AR-600213 REV A
7. 10026-DWG-S100000-AR-200008 REV D
8. 10026-DWG-S100000-AR-200048 REV C
9. 10026-DWG-S100000-AR-201105 REV D
10. 10026-DWG-S100000-AR-600227 REV B
11. 10026-DWG-S100000-ST-600039 REV E
12. 110026-DWG-S105600-ST-200003 REV B
13. 10026-DWG-S100000-ST-200109 REV B
14. 10026-DWG-S100000-ST-600054 REV B

NOTE-1:
FOR STAIRCASE KEY PLAN DETAILS REFER DRAWING NO: 60020-SDW-S105600-ST-200004

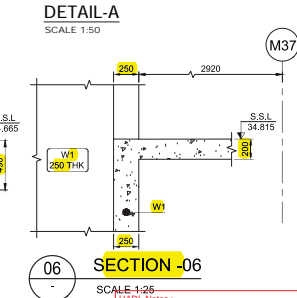
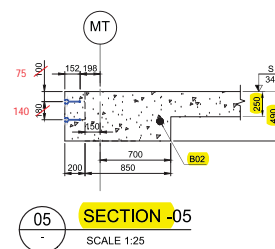
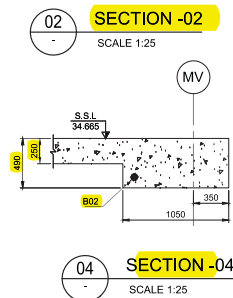
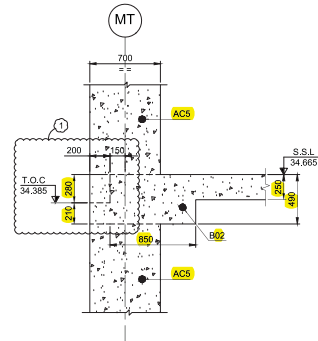
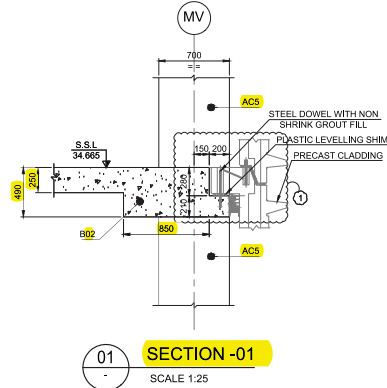
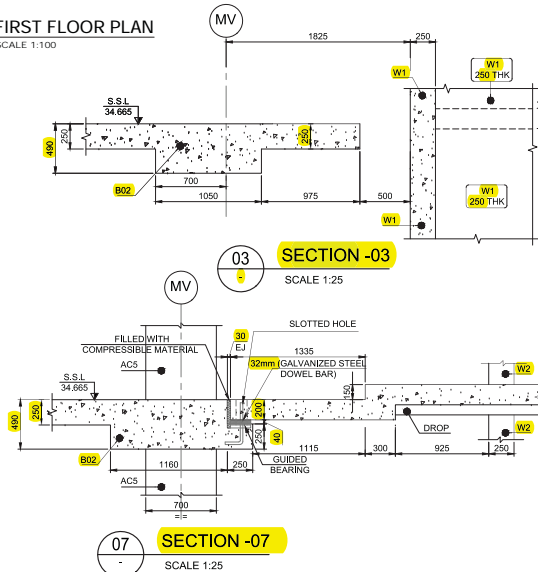
NOTE-2:
FOR MOBILITY KEY PLAN DETAILS REFER DRG NO: 60020-SDW-S105600-ST-201001.

NOTE-3:
FOR COLUMN CORNER CHAMFER DETAILS REFER DRG. NO. 60020-SDW-S105600-ST-20P032.

NOTE-4:
DENOTES COLUMN OR WALL STARTING FROM THIS LEVEL

NOTE-5:
THIS DRAWING SUPERSEDES 60020-SDW-S105655-ST-201064 REV 3 DUE TO REDESIGN AS PER SITE INSTRUCTION -33.

FIRST FLOOR PLAN
SCALE 1:100



HAUL Notes :-
Ensure that all MEP openings, penetrations, earthing connections and lighting protection are accommodated as required prior to pouring concrete.

CERTIFICATION

THE CONTRACTOR CERTIFIES THAT THIS DRAWING HAS BEEN COORDINATED, CHECKED FOR COMPLIANCE WITH THE CONTRACT.

ENGINEER DOCUMENT REVIEW

Document reviewed for compliance with the design concept and is not checked for accuracy or availability of expense. This review does not constitute the contractual obligations, nor does it authorize changes to the design concept.

REVIEWED BY DISCIPLINE STATUS SIGNATURE DATE

Architectural (HA) A GW 08/01/18

Structural (Struct) A Turner 08/12/2017

Electrical (Elect) A

Mechanical (Mech) A

Plumbing (Plumb) A

Others

SUBMITTAL / TRANSMITTAL NO.

ENGINEER / Inspector

Signature

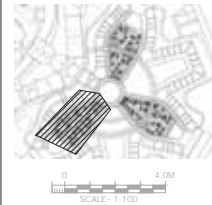
Date

REDESIGN AS PER SITE INSTRUCTION - 33.

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DO NOT SCALE THIS DRAWING.

KEY PLAN



General Notes:
1) ALL DIMENSIONS ARE IN MILLIMETRES.
2) ALL LEVELS ARE IN METRES.

LEGEND:
S.S.L - STRUCTURAL SLAB LEVEL
S.O.P - SETTING OUT POINT
T.O.C - TOP OF CONCRETE
THK - THICKNESS
TYP - TYPICAL
SCH - SCHEDULE
U.N.O - UNLESS NOTED OTHERWISE
- STRUCTURAL WALL / COLUMN

RFI RESPONSE:
1) AFC-RFI-000759
2) AFC-RFI-000840
3) AFC-RFI-000777

No Description

SAFETY, HEALTH AND ENVIRONMENT INFORMATION
Brief details on the identified hazard symbol referencing the unusual residual hazards / risks are listed above.

REVISIONS

1 FIRST ISSUE 21.12.17 KUM NVI

No. Explanatory Note Date Draw/Chg/Rev

CLIENT:

PROGRAM/PROJECT MANAGEMENT CONSULTANT

PROGRAM/PROJECT MANAGEMENT CONSULTANT

DESIGN CONSULTANT

Hopkins Architects

CONSULTANT:

e.construct

MAIN CONTRACTOR

Al-Futtaim

carillion

SUB-CONTRACTOR:

CSI NETWORK SERVICES

PROJECT:

THEMATIC DISTRICTS MAIN CONTRACTOR-60020

Drawing Title

MOBILITY DISTRICT

SPECIAL PAVILION TYPE-A (MSR)

FIRST FLOOR GENERAL ARRANGEMENT

PLAN AND SECTIONS

Approved

21/12/2017

Designed

KUM NVI

Model File Ref

Scale A1 (841x594)

Revision No

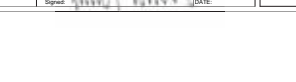
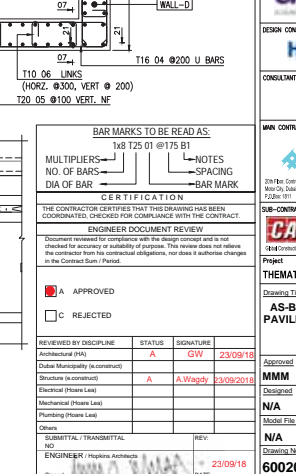
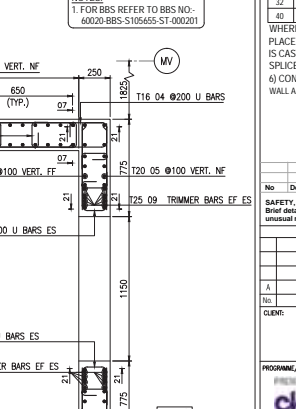
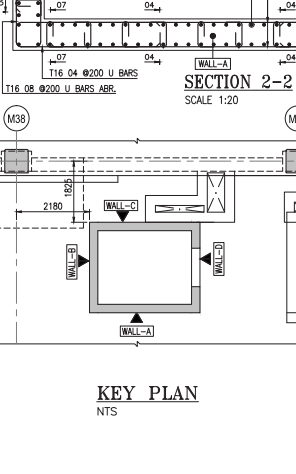
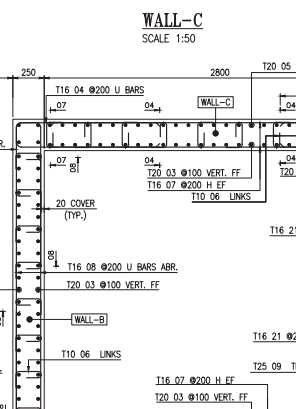
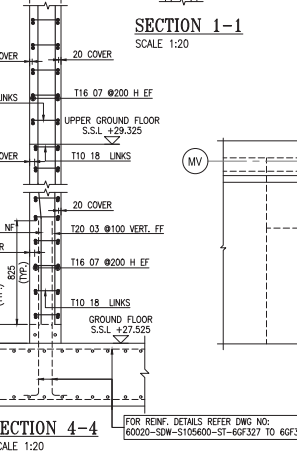
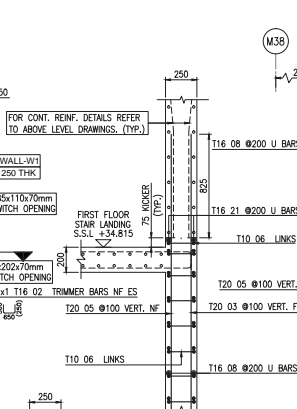
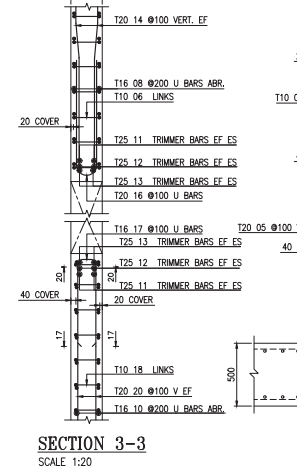
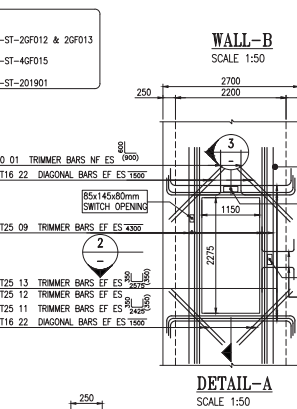
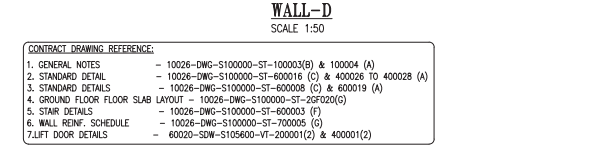
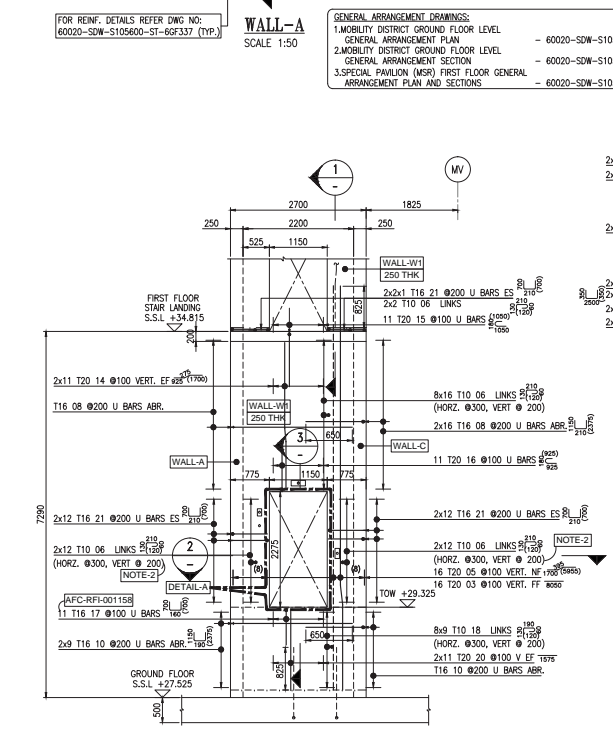
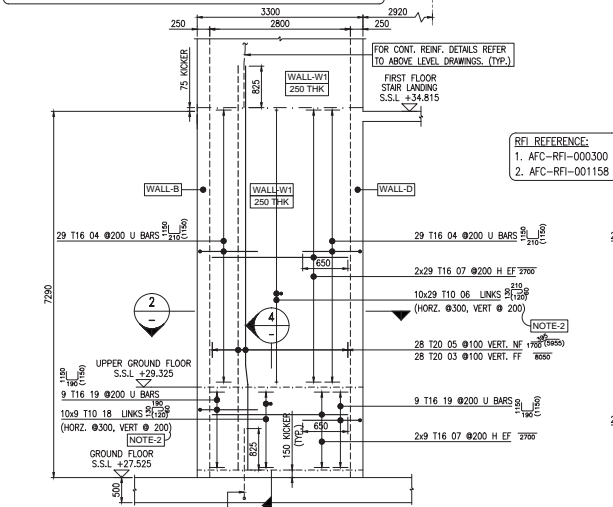
AS SHOWN 1

Drawing No

60020-SDW-S105655-ST-201901

SHOP DRAWINGS:

1.ZONE-7 GROUND FLOOR SLAB REINFORCEMENT DETAILS - 60020-SDW-S105600-ST-6GF327 TO 6GF336
2.ZONE-7 WALL STARTER REINFORCEMENT DETAILS - 60020-SDW-S105600-ST-6GF337



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DO NOT SCALE THIS DRAWING.

KEY PLAN

MOBILITY DISTRICT

SCALE 1:20

SCALE 1:50

GENERAL NOTES:

- ALL DIMENSIONS ARE IN MILLIMETER
- ALL LEVELS ARE IN METER
- CONCRETE GRADE F_c C50/60 MPa
- REINFORCEMENT GRADE F_y 460 MPa
- LAP LENGTH - AS PER LAP TABLE

LAP SPICE AND DEVELOPMENT SCHEDULE

BAR SIZE	TOP BARS	OTHERS	MINIMUM STANDARD HOOK
10	425	325	200
12	500	375	200
16	650	500	250
20	825	625	300
25	1250	975	425
32	1600	1225	550
40	2000	1500	775

WHERE HORIZONTAL BAR REINFORCEMENT IS PLACED MORE THAN 300MM OF FRESH CONCRETE IS CAST BELOW THE DEVELOPMENT LENGTH OR SPICE, THEN THE SPICE LENGTH SHOULD BE TOP.

a) CONCRETE COVER TO REINFORCEMENT WALL ALL SIDES

BELOW UPPER GROUND: 40mm (From outside)

BELOW UPPER GROUND: 20mm (From inside)

ABOVE UPPER GROUND: 20mm

AS-BUILT

SAFETY, HEALTH AND ENVIRONMENT INFORMATION

Brief details on the identified hazard symbol referencing the unusual residual hazards / risks are listed above.

REVISIONS

No	Description	DATE	BY	CHKD
1	13/06/2018	KMP/KTS	MM	

CLIENT:

PROGRAM/PROJECT MANAGEMENT CONSULTANT:

DESIGN CONSULTANT:

CONSULTANT:

MAIN CONTRACTOR:

Sub-CONTRACTOR:

Project: THEMATIC DISTRICTS MAIN CONTRACTOR-60020

AS-BUILT MOBILITY DISTRICT SPECIAL PAVILION TYPE-A (MSR) GROUND FLOOR TO FIRST FLOOR LIFT WALL REINFORCEMENT DETAILS

Drawing Title:

Approved:

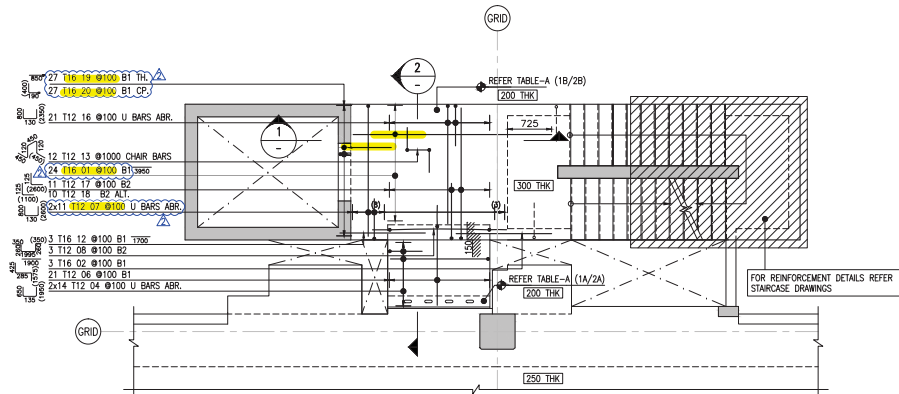
Checked:

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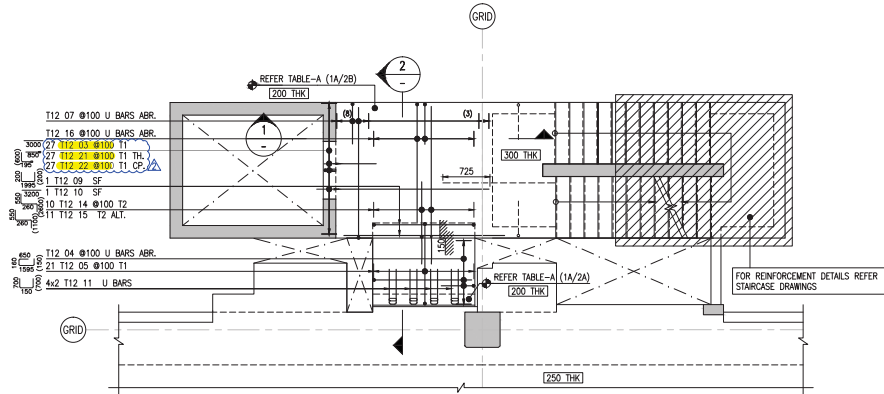
Scale: 1:20 & 1:50

Revision No:

60020-SDW-S105655-ST-600201



**STAIR LANDING SLAB
BOTTOM REINFORCEMENT**
SCALE 1:50

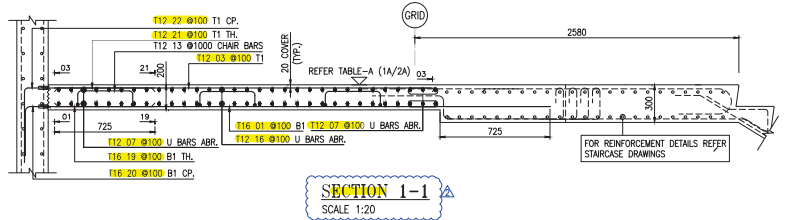


**STAIR LANDING SLAB
TOP REINFORCEMENT**
SCALE 1:50

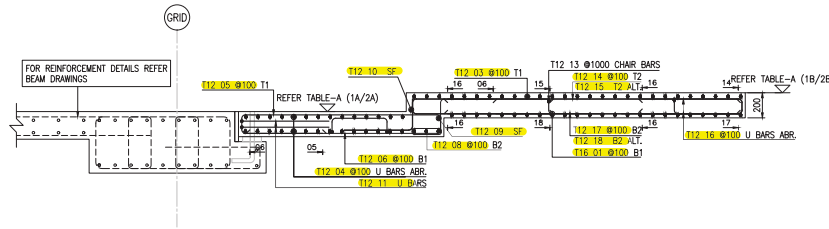
S.NO	BUILDING	TABLE-A			
		FIRST FLOOR		SECOND FLOOR	
		SSL (Sch-1A)	SSL (Sch-1B)	SSL (Sch-2A)	SSL (Sch-2B)
1	OSR	30.140	30.290	34.090	34.240
2	MSR	34.665	34.815	38.615	38.765

RFI REFERENCE:

1. AFC-RFI-000271
2. AFC-RFI-000286
3. AFC-RFI-000386
4. AFC-RFI-000389
5. AFC-RFI-000477
6. AFC-RFI-000485
7. AFC-RFI-000543
8. AFC-RFI-000698
9. AFC-RFI-000685
10. AFC-RFI-000617
11. AFC-RFI-000619
12. AFC-RFI-000625
13. AFC-RFI-000665



SECTION 1-1
SCALE 1:20



SECTION 2-2
SCALE 1:20

- NOTE 1:**
CHAIRS SPACING TO BE SET AT 120mm MAX IN BOTH DIRECTIONS.
- NOTE 2:**
FOR CONCRETE DIMENSIONS REFER CONCRETE DIMENSIONS DRAWINGS.
- NOTE 3:**
FOR OPENING SIZE LESS THAN 500mm BARS TO BE CUT AND SUIT AT SITE.
- NOTE 4:**
HOOKS TO BE TILT AT SITE TO ACCOMMODATE COVER.
- NOTE 5:**
REINFORCEMENT SHOWN ON THIS DRG ARE SCHEDULED FOR ONE TYPE OF BUILDING ONLY AND THE SAME TO BE USED FOR ALL OTHER TYPES LISTED IN TABLE-A

- GENERAL ARRANGEMENT DRAWINGS:**
1. MOBILITY DISTRICT SUPER STRUCTURE STAIRCASE KEY PLAN - 60020-SDW-S105600-ST-200004
 2. SUSTAINABILITY DISTRICT SUPER STRUCTURE STAIRCASE KEY PLAN - 60020-SDW-S105200-ST-200004
 3. OPPORTUNITY DISTRICT SUPER STRUCTURE STAIRCASE KEY PLAN - 60020-SDW-S105400-ST-200004
 4. SPECIAL PAVILION STAIRCASE (TYPE-A) GROUND FLOOR TO ROOF LEVEL GENERAL ARRANGEMENT SECTIONS & PLAN - 60020-SDW-S105655-ST-400001 & 400002
 5. SPECIAL PAVILION STAIRCASE (TYPE-B) GROUND FLOOR TO ROOF LEVEL GENERAL ARRANGEMENT SECTIONS & PLAN - 60020-SDW-S105455-ST-400001 & 400002

- CONTRACT DRAWING REFERENCE:**
1. GENERAL NOTES - 10026-DWG-S100000-ST-100004(A)
 2. STANDARD DETAILS - 10026-DWG-S100000-ST-600019(A)
 3. MOBILITY DISTRICT FIRST & SECOND FLOOR SLAB LAYOUT - 10026-DWG-S105600-ST-200002 TO 200006(B)
 4. OPPORTUNITY DISTRICT FIRST & SECOND FLOOR SLAB LAYOUT - 10026-DWG-S105400-ST-200002 TO 200006(B)
 5. SUSTAINABILITY DISTRICT FIRST & SECOND FLOOR SLAB LAYOUT - 10026-DWG-S105200-ST-200002 TO 200006(B)
 6. STAIR DETAILS - 10026-DWG-S100000-ST-600003(C)&600004(B)
 7. CAST IN SITU STAIR DETAILS - 10026-DWG-S100000-ST-600010 (C)
 8. STAIR PLAN DETAILS - 10026-DWG-S100000-ST200110 (A)
 9. LINK BRIDGE DETAILS - 10026-DWG-S100000-ST-200109 (A)

HAZL Note: Also refer to and read in conjunction with comments on relevant General Arrangement

- ABBREVIATIONS:**
- T.O.C - TOP OF CONCRETE
 - B.O.C - BOTTOM OF CONCRETE
 - T.O.S - TOP OF SLAB
 - T.O.F - TOP OF FOOTING
 - T1 - TOP FIRST LAYER
 - T2 - TOP SECOND LAYER
 - B1 - BOTTOM FIRST LAYER
 - B2 - BOTTOM SECOND LAYER
 - PB - PULLOUT BAR
 - THK - THICKNESS
 - ADOL - ADDITIONAL
 - ABR - ALTERNATE BARS REVERSED
- ES - EACH SIDE**
EF - EACH FACE
H - HORIZONTAL
V - VERTICAL
FF - FAR FACE
NF - NEAR FACE
TYP. - TYPICAL
STG. - STAGGERED
SF - SIDE FACE
ALT. - ALTERNATE
- BAR MARKS TO BE READ AS:**
- MULTIPLIERS
 - NO. OF BARS
 - DIA OF BAR
 - NOTES
 - SPACING
 - BAR MARK

CERTIFICATION

THE CONTRACTOR CERTIFIES THAT THIS DRAWING HAS BEEN COORDINATED, CHECKED FOR COMPLIANCE WITH THE CONTRACT.

ENGINEER DOCUMENT REVIEW

Document intended for compliance with the design concept and is not intended for accuracy or suitability of purpose. This review does not release the Contractor from its contractual obligations, nor does it authorize changes in the Contract Sum / Project.

☒ A. APPROVED
☐ B. APPROVED WITH COMMENTS
☐ C. REJECTED
☐ D. RECEIVED FOR INFORMATION

REVIEWED BY DISCIPLINE	STATUS	SIGNATURE	DATE
Architectural (PA)	A	GW	21/02/18
Structural (Structural)	A	ALAB	19/02/2018
Electrical (Phase Lead)			
Mechanical (Phase Lead)			
Planting (Phase Lead)			

SUBMITTAL / TRANSMITTAL

ENGINEER: Hopkins Architects
Signed: [Signature]
Date: 21/02/18

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DO NOT SCALE THIS DRAWING.

KEY PLAN

4.0M
SCALE-1:100 2.0M
SCALE-1:50 1.0M
SCALE-1:20

General Notes:

- 1) ALL DIMENSIONS ARE IN MILLIMETER
- 2) ALL LEVELS ARE IN METER
- 3) CONCRETE GRADE F_{ck} C40MPa
- 4) REINFORCEMENT GRADE F_y = 460MPa
- 5) LAP LENGTH - AS PER LAP TABLE

BAR SIZE	TOP BARS		OTHERS		STANDARD HOOK
	Ld	LAP	Ld	LAP	
10	475	600	350	475	200
12	550	725	425	550	200
16	725	950	575	725	250
20	925	1175	700	925	300
25	1400	1625	1075	1400	425
32	1800	2325	1375	1800	550
40	2225		COUPLER		775

WHERE HORIZONTAL BAR REINFORCEMENT IS PLACED MORE THAN 300MM OF FRESH CONCRETE IS CAST BELOW THE DEVELOPMENT LENGTH OR SPLICE, THEN THE SPLICE LENGTH SHOULD BE TOP

a) CONCRETE COVER TO REINFORCEMENT SLAB : ALL SIDE - 20mm

REVISIONS

No	Description	DATE	BY	CHKD
2	REMOVED AS CLOUSED	13/02/2018	ITU	PKA
1	FIRST ISSUE	29/12/2017	ITU	PKA

CLIENT:

PROGRAMME/PROJECT MANAGEMENT CONSULTANT:

DESIGN CONSULTANT:

CONSTRUCTION:

CONTRACTOR:

Sub-CONTRACTOR:

Project:

THEMATIC DISTRICTS MAIN CONTRACTOR-60020

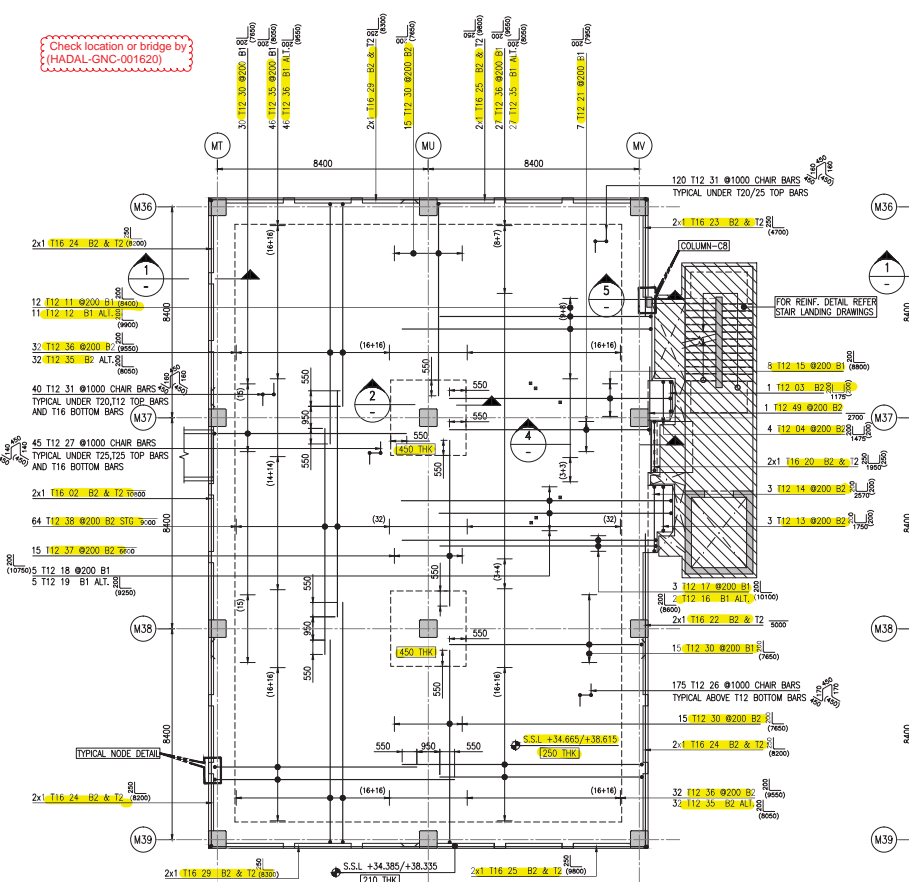
Drawing Title:

SPECIAL PAVILION TYPE-A & B FIRST & SECOND FLOOR STAIR LANDING SLAB REINFORCEMENT DETAILS

Approved	Drawn	Checked	Scale	Revision No
MMW/SS	ITU	PKA	1:50 & 1:25	2

60020-SDW-S105655-ST-600505

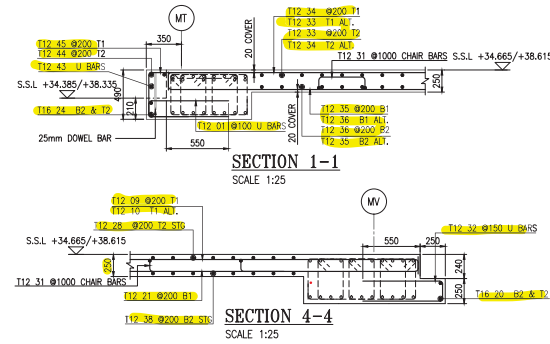
Check location or bridge by
(HADAL-GNC-001620)



GENERAL ARRANGEMENT DRAWINGS:
1. MOBILITY KEY PLAN
2. FIRST FLOOR GENERAL ARRANGEMENT PLAN & SECTIONS
3. SECOND FLOOR GENERAL ARRANGEMENT PLAN & SECTIONS
4. LINK BRIDGE CONNECTION DETAILS

60020-SDW-S105650-ST-201001
60020-SDW-S105655-ST-201064
60020-SDW-S105655-ST-202065
60020-SDW-S105655-ST-202011 & 012

REDESIGN AS PER
SITE INSTRUCTION-33



NOTE1:
CHAIRS SPACING TO BE SET AT 1200mm MAX IN BOTH DIRECTIONS.

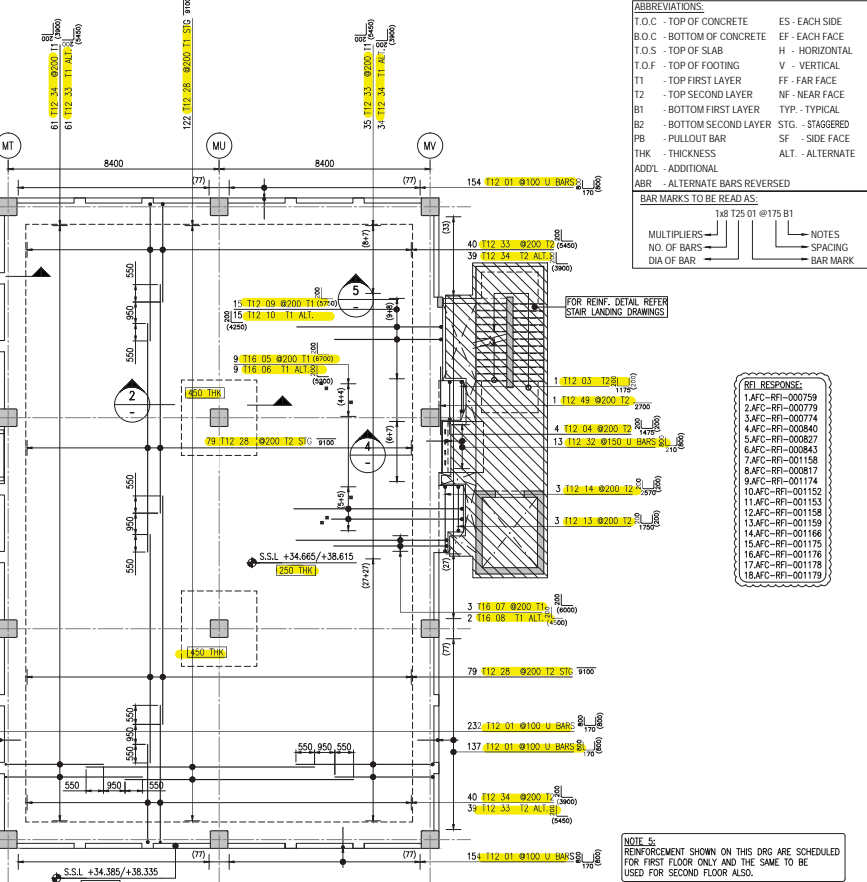
NOTE2:
FOR CONCRETE DIMENSIONS REFER CONCRETE DIMENSIONS DRAWINGS.

NOTE3:
FOR OPENING SIZE LESS THAN 500mm BARS TO BE CUT AND SUIT AT SITE.

NOTE4:
HOOKS TO BE TILT AT SITE TO ACCOMMODATE COVER.

CONTRACT DRAWING REFERENCE:
1. GENERAL NOTES
2. MOBILITY DISTRICT FIRST & SECOND FLOOR SLAB LAYOUT
3. TYPICAL SLAB TOP & BOTTOM REINF. LAYOUT
4. PRECAST CLADDING REINF. DETAILS

10026-DWG-S100000-ST-10000(A)
10026-DWG-S105650-ST-200002 TO 200006(A)
10026-DWG-S100000-ST-200107(A)
10026-DWG-S100000-ST-600039(D)



ABBREVIATIONS:
T.O.C - TOP OF CONCRETE
B.O.C - BOTTOM OF CONCRETE
T.O.S - TOP OF SLAB
T.O.F - TOP OF FOOTING
T1 - TOP FIRST LAYER
T2 - TOP SECOND LAYER
B1 - BOTTOM FIRST LAYER
B2 - BOTTOM SECOND LAYER
PB - PULLOUT BAR
THK - THICKNESS
ADOL - ADDITIONAL
ABBR - ALTERNATE BARS REVERSED

ES - EACH SIDE
EF - EACH FACE
H - HORIZONTAL
V - VERTICAL
FF - FAR FACE
NF - NEAR FACE
TYP - TYPICAL
STG - STAGGERED
SF - SIDE FACE
ALT - ALTERNATE

BAR MARKS TO BE READ AS:
MULTIPLIERS
NO. OF BARS
DIA OF BAR
SPACING
NOTES
BAR MARK

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DO NOT SCALE THIS DRAWING.

KEY PLAN

0 MOBILITY DISTRICT 4.0M
0 SCALE-1:100 0.8M
0 SCALE-1:20 1.0M
SCALE-1:25

General Notes:
1) ALL DIMENSIONS ARE IN MILLIMETER
2) ALL LEVELS ARE IN METER
3) CONCRETE GRADE F₂₈ C40MPa
4) REINFORCEMENT GRADE F_y = 460MPa
5) LAP LENGTH - AS PER LAP TABLE

BAR SIZE	TOP BARS	OTHERS	MINIMUM STANDARD HOOK
10	475	350	175
12	550	425	200
16	725	575	275
20	925	700	300
25	1400	1075	425
32	1800	1375	550
40	2225	1675	775

WHERE HORIZONTAL BAR REINFORCEMENT IS PLACED MORE THAN 300MM OF FRESH CONCRETE IS CAST BELOW THE DEVELOPMENT LENGTH OR SPICE, THEN THE SPICE LENGTH SHOULD BE TOP.

4) CONCRETE COVER TO REINFORCEMENT
SLAB:
TOP & BOTTOM = 20mm

REVISIONS

No	Description	By	Date
1	REDESIGN AS PER 8 NO. 33	04/11/2017	SPK KSK

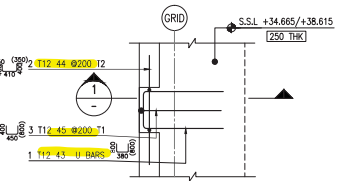
CLIENT:

PROGRAM/PROJECT MANAGEMENT CONSULTING:

DESIGN CONSULTANT:

CONSULTANT:

MAIN CONTRACTOR:



TYPICAL NODE DETAIL
SCALE 1:25 (16 Nos.)

CERTIFICATION

THE CONTRACTOR CERTIFIES THAT THIS DRAWING HAS BEEN COORDINATED, CHECKED FOR COMPLIANCE WITH THE CONTRACT ENGINEERING DOCUMENT REVIEW

RECEIVED BY DISCIPLINE STATUS SIGNATURE DATE

Architectural (P) B GW 16-11-17

Structural (S) B 16-11-17

Electrical (E) B 16-11-17

Mechanical (M) B 16-11-17

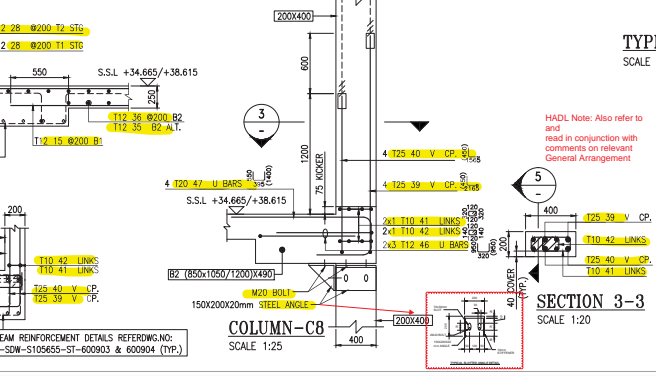
Plumbing (P) B 16-11-17

Others

REVIEWED BY TRANSMITTAL

ENGINEER (Hopkins Architects) 16-11-17

Signed DATE



NOTE1:
FOR BEAM REINFORCEMENT DETAILS REFER DWG. NO. 60020-SDW-S105655-ST-600902 (TYP.)

NOTE2:
FOR BEAM REINFORCEMENT DETAILS REFER DWG. NO. 60020-SDW-S105655-ST-600904 (TYP.)

PROJECT: THEMATIC DISTRICTS MAIN CONTRACTOR-60020

Drawing Title: MOBILITY DISTRICT SPECIAL PAVILION TYPE-A (MSR) FIRST AND SECOND FLOOR SLAB REINFORCEMENT DETAILS (SHEET 1)

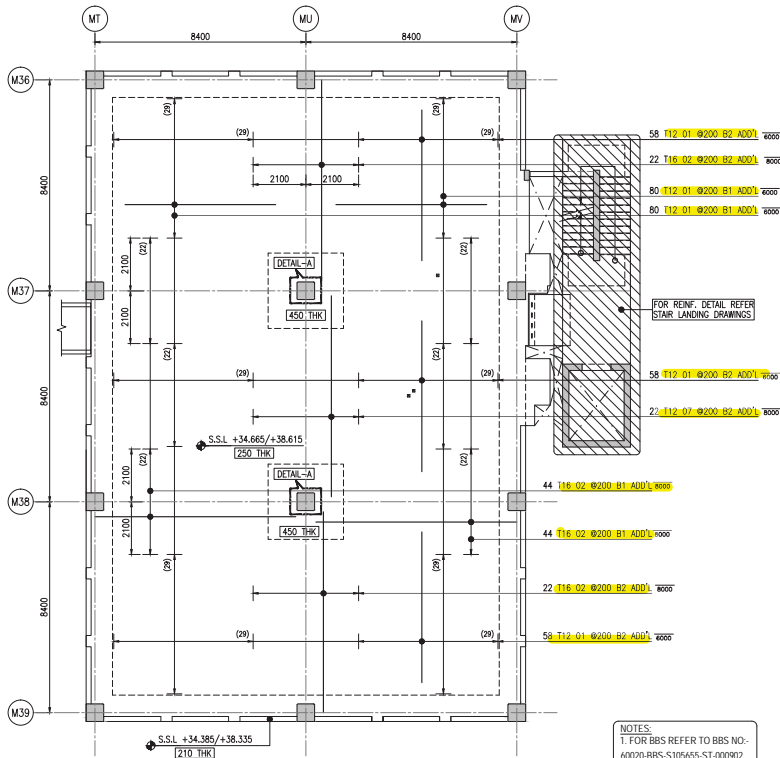
Author: MMM

Checked: SPK KSK

Scale: AS SHOWN

Revision No: 1

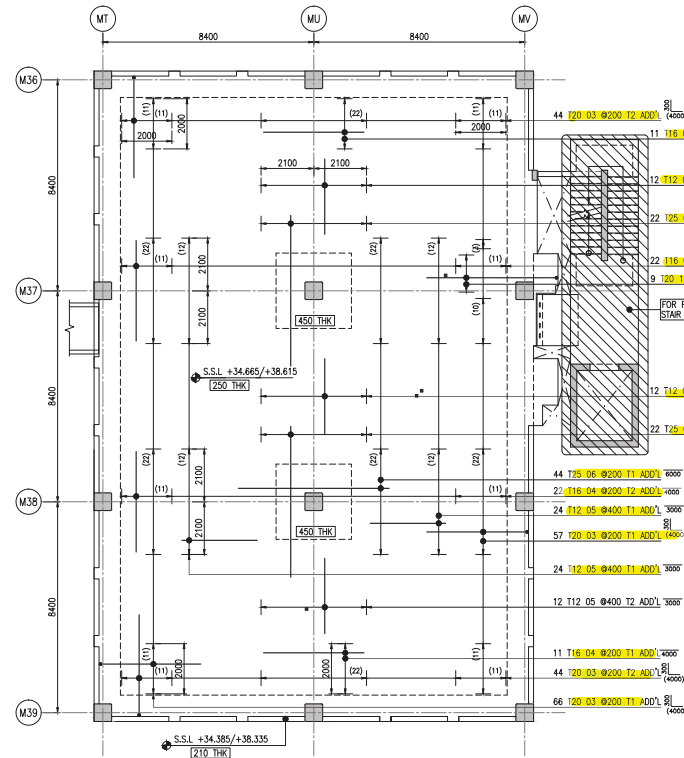
60020-SDW-S105655-ST-600901



SLAB BOTTOM ADDITIONAL REINFORCEMENT
SCALE 1:100

NOTES:
1. FOR BBS REFER TO BBS NO.-
60020-BBS-S105655-ST-000902

REDESIGN AS PER
SITE INSTRUCTION-33



SLAB TOP ADDITIONAL REINFORCEMENT
SCALE 1:100

GENERAL ARRANGEMENT DRAWINGS:

- 1. MOBILITY KEY PLAN - 60020-SDW-S105600-ST-201001
- 2. FIRST FLOOR GENERAL ARRANGEMENT PLAN & SECTIONS - 60020-SDW-S105655-ST-201064
- 3. SECOND FLOOR GENERAL ARRANGEMENT PLAN & SECTIONS - 60020-SDW-S105655-ST-202065
- 4. SLINK BRIDGE CONNECTION DETAILS - 60020-SDW-S100000-ST-200011 & 012

CONTRACT DRAWING REFERENCE:

- 1. GENERAL NOTES - 10026-DWG-S100000-ST-100004(A)
- 2. MOBILITY DISTRICT FIRST & SECOND FLOOR SLAB LAYOUT - 10026-DWG-S105600-ST-200002 TO 200006(A)
- 3. TYPICAL SLAB TOP & BOTTOM REINF. LAYOUT - 10026-DWG-S100000-ST-200107(A)
- 4. PRECAST CLADDING REINF. DETAILS - 10026-DWG-S100000-ST-600039(D)

REF. RESPONSE:
1. AFC-RFI-000759
2. AFC-RFI-000779
3. AFC-RFI-000774
4. AFC-RFI-000840
5. AFC-RFI-000827
6. AFC-RFI-000843
7. AFC-RFI-001158
8. AFC-RFI-000817
9. AFC-RFI-001174
10. AFC-RFI-001152
11. AFC-RFI-001153
12. AFC-RFI-001158
13. AFC-RFI-001159
14. AFC-RFI-001166
15. AFC-RFI-001175
16. AFC-RFI-001176
17. AFC-RFI-001178
18. AFC-RFI-001179

HADL Note: Also refer to and read in conjunction with comments on relevant General Arrangement

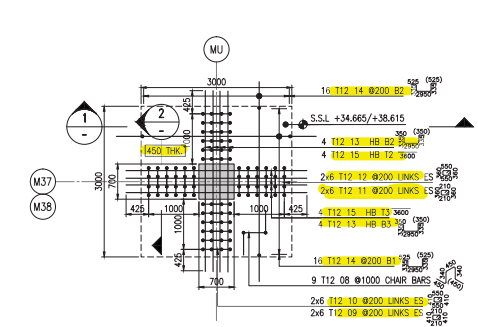
NOTE1:
CHARS SPACING TO BE SET AT 1200mm MAX IN BOTH DIRECTIONS.

NOTE2:
FOR CONCRETE DIMENSIONS REFER CONCRETE DIMENSIONS DRAWINGS.

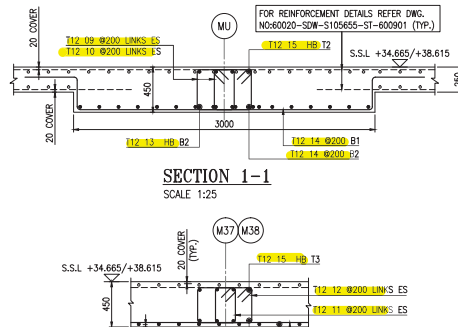
NOTE3:
FOR OPENING SIZE LESS THAN 500mm BARS TO BE CUT AND SUIT AT SITE.

NOTE4:
HOOKS TO BE TILT AT SITE TO ACCOMMODATE COVER.

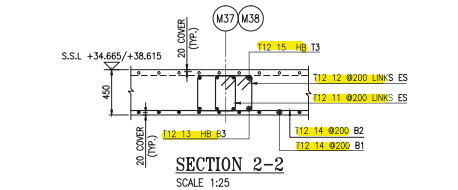
NOTE 5:
REINFORCEMENT SHOWN ON THIS DRG. ARE SCHEDULED FOR ONE TYPE OF BUILDING ONLY AND THE SAME TO BE USED FOR ALL OTHER TYPES LISTED IN TABLE-A



DETAIL-A
SCALE 1:50 (2 Nos.)



SECTION 1-1
SCALE 1:25



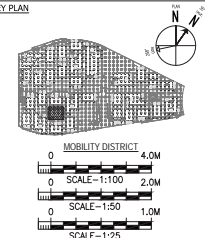
SECTION 2-2
SCALE 1:25

REVIEWED BY	DISCIPLINE	STATUS	SIGNATURE	DATE
Architectural (PM)	B	GW	14-11-17	
Structural (Structural)	B	GW	14-11-17	
Electrical (Electrical)	B	GW	14-11-17	
Mechanical (Mechanical)	B	GW	14-11-17	
Plumbing (Plumbing)	B	GW	14-11-17	
Others				
Submittal / Transmittal				
Engineer (Engineer)	B	GW	14-11-17	

REVISIONS	NO.	DESCRIPTION	DATE	BY	CHKD.
1	REDESIGN AS PER (Q NO. 3)	04/11/2017	SPK	KSK	
2	EXPLANATORY NOTE	04/11/2017	SPK	KSK	
3					
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KEY PLAN



General Notes:

- 1) ALL DIMENSIONS ARE IN MILLIMETER
- 2) ALL LEVELS ARE IN METER
- 3) CONCRETE GRADE F_c 40MPa
- 4) REINFORCEMENT GRADE F_y = 460MPa
- 5) LAP LENGTH - AS PER LAP TABLE

BAR SIZE	TOP BARS	OTHERS	MINIMUM STANDARD HOOK
10	475	400	175
12	550	425	200
16	725	575	250
20	925	700	300
25	1400	1075	425
32	1800	1375	550
40	2225	1675	775

WHERE HORIZONTAL BAR REINFORCEMENT IS PLACED MORE THAN 300MM OF FRESH CONCRETE IS CAST BELOW THE DEVELOPMENT LENGTH OR SPICE, THEN THE SPICE LENGTH SHOULD BE TOP.

a) CONCRETE COVER TO REINFORCEMENT

FIRST FLOOR SLAB:

TOP & BOTTOM = 20mm

REVISIONS

No Description

SAFETY, HEALTH AND ENVIRONMENT INFORMATION

Brief details on the identified hazard symbol referencing the unusual residual hazards / risks are listed above.

REVISIONS

No Description

REVISIONS

No Description

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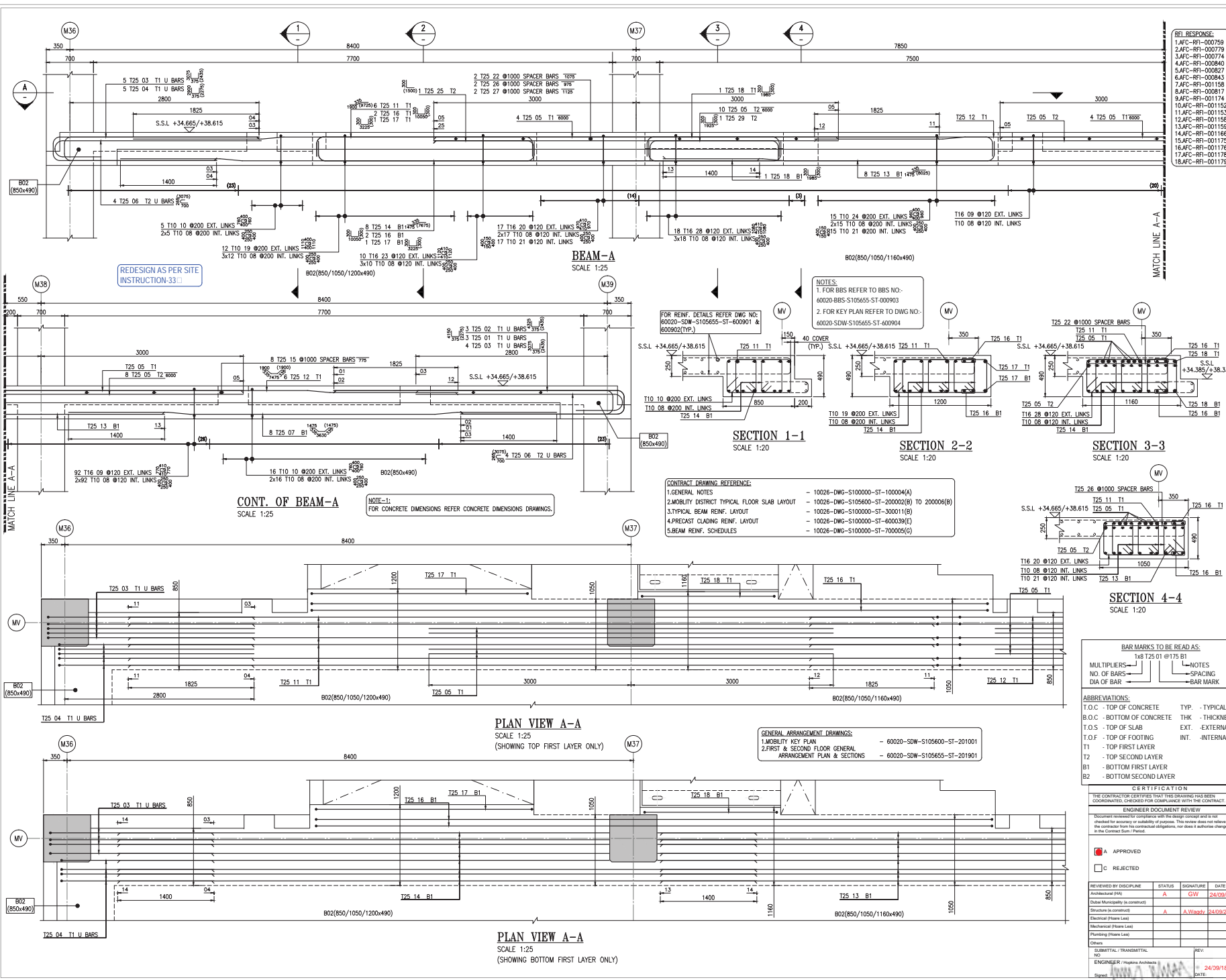
No Description

REVISIONS

No Description

REVISIONS

No Description



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DO NOT SCALE THIS DRAWING.

KEY PLAN

MOBILITY DISTRICT

0 8.0M
SCALE: 1:20

0 1.0M
SCALE: 1:25

GENERAL NOTES:

- 1) ALL DIMENSIONS ARE IN MILLIMETER
- 2) ALL LEVELS ARE IN METER
- 3) CONCRETE GRADE F_y = 40MPa
- 4) REINFORCEMENT GRADE F_y = 460MPa
- 5) LAP LENGTH = AS PER LAP TABLE

LAP SPICE AND DEVELOPMENT SCHEDULE
(F_y = 40MPa, F_y = 460MPa)

BAR SIZE	TOP BARS		OTHERS		MINIMUM STANDARD HOOK
	Ld	LAP	Ld	LAP	
10	475	600	350	475	200
12	550	725	425	550	200
16	725	950	575	725	250
20	925	1175	700	925	300
25	1400	1825	1075	1400	425
32	1800	2325	1375	1800	550
40	2225				775

WHERE HORIZONTAL BAR REINFORCEMENT IS PLACED MORE THAN 300MM OF FRESH CONCRETE IS CAST BEFORE THE DEVELOPMENT LENGTH OR SPICE, THEN THE SPICE LENGTH SHOULD BE TOP.

a) CONCRETE COVER TO REINFORCEMENT BEAM:

ALL SIDE - 40mm

AS-BUILT

No. Description

SAFETY, HEALTH AND ENVIRONMENT INFORMATION

Brief details on the identified hazard symbols referencing the unusual residual hazards / risks are listed above.

REVISIONS

No.	Description	Date	By	Check
1	First Issue	18/07/2018	ABY	KSK

CLIENT:

PROGRAM/PROJECT MANAGEMENT CONSULTING:

PREPARATION/PROJECT MANAGEMENT CONSULTING:

DESIGN CONSULTANT:

CONSULTANT:

MAIN CONTRACTOR:

SUB-CONTRACTOR:

CERTIFICATION

THE CONTRACTOR CERTIFIES THAT THIS DRAWING HAS BEEN COORDINATED, CHECKED FOR COMPLIANCE WITH THE CONTRACT.

ENGINEER DOCUMENT REVIEW

REVIEWED BY DISCIPLINE

REVIEWED BY DISCIPLINE	STATUS	SIGNATURE	DATE
Architectural (PA)	A	GW	24/09/18
Structural (S)	A	A. Wazir	24/09/2018
Electrical (E)	A		
Mechanical (M)	A		
Plumbing (P)	A		
Other	A		

ENGINEER / Hopkins Architects

Sign: [Signature]

DATE: 24/09/18

PROJECT: THEMATIC DISTRICTS MAIN CONTRACTOR-60020

Drawing Title: AS-BUILT MOBILITY DISTRICT SPECIAL PAVILION TYPE-A (MSR) FIRST AND SECOND FLOOR BEAM REINFORCEMENT DETAILS (SHEET 1)

Approved: [Signature]

Designated: [Signature]

Model File Ref: [Signature]

Scale: A1 (50x40)

AS SHOWN

Revision No. A

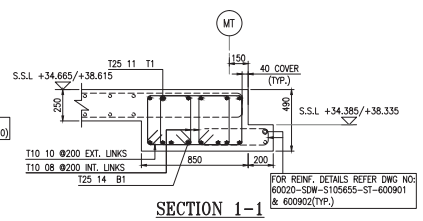
Check: [Signature]

Drawn: [Signature]

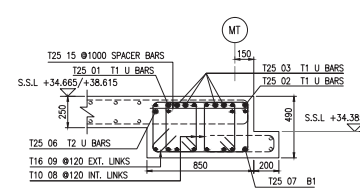
18/07/2018

18/07/2018

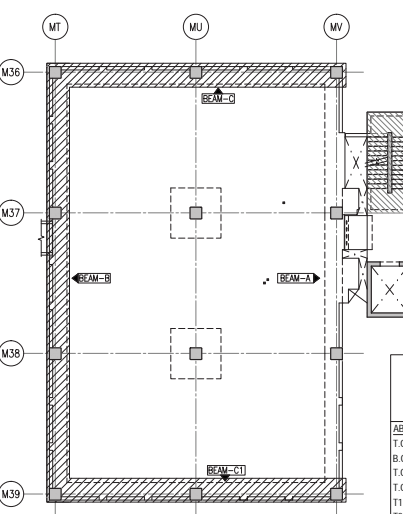
60020-SDW-S105655-ST-600903



SECTION 1-1
SCALE 1:20

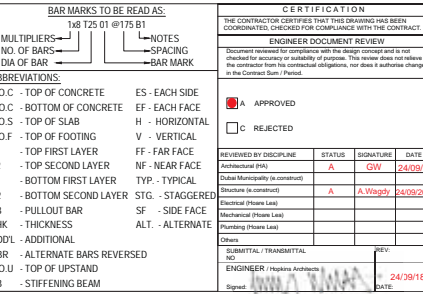


SECTION 3-3
SCALE 1:20



RFI RESPONSE:

- 1.AFC-RFI-000759
- 2.AFC-RFI-000779
- 3.AFC-RFI-000774
- 4.AFC-RFI-000840
- 5.AFC-RFI-000827
- 6.AFC-RFI-000843
- 7.AFC-RFI-001158
- 8.AFC-RFI-000817
- 9.AFC-RFI-001174
- 10.AFC-RFI-001152
- 11.AFC-RFI-001153
- 12.AFC-RFI-001158
- 13.AFC-RFI-001159
- 14.AFC-RFI-001166
- 15.AFC-RFI-001175
- 16.AFC-RFI-001176
- 17.AFC-RFI-001178
- 18.AFC-RFI-001179



KEY PLAN
NTS

BAR SIZE	TOP BARS		OTHERS		MINIMUM STANDARD HOOK
	Ld	LAP	Ld	LAP	
10	475	600	350	475	200
12	550	725	425	550	200
16	725	950	575	725	250
20	925	1175	700	925	300
25	1400	1825	1075	1400	425
32	1800	2325	1375	1800	550
40	2225	COUPLER			775

AS-BUILT

REVISIONS						
A	FIRST ISSUE	18072018	ABY	KSK	MMW	
No.	Explanatory Note	Date	Dra	Chk	Apr	

PROGRAMME/PROJECT MANAGEMENT CONSULTANT:
PROGRAMME MANAGEMENT CONSULTANT
ch2m  **mace**
AECOM Infrastructure & Transportation Division

CONSULTANTS:

e.construct
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Fax: 04-3881136
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SUB-CONTRACTOR:

CSI NETWORK SERVICES

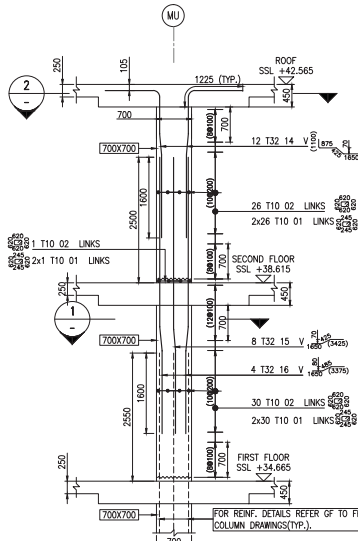
THEMATIC DISTRICTS MAIN CONTRACTOR-60020

**AS-BUILT MOBILITY DISTRICT
SPECIAL PAVILION TYPE-A (MSR)
FIRST AND SECOND FLOOR BEAM**

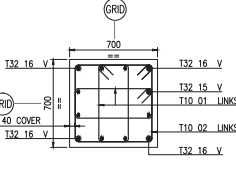
REINFORCEMENT DETAILS (SHEET 2)	
<u>Approved</u> MMM	<u>Seal Date</u> 18/07/2018

Designed	Drawn	Checked
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Model File Ref:	Scale A1 (594x841)	Revision No.

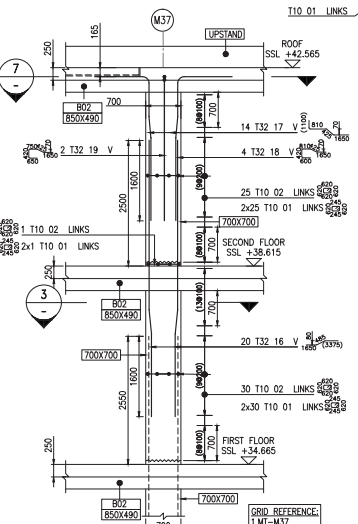
N/A	AS SHOWN	A
Drawing No		
60020-SDW-S105655-ST-600904		



COLUMN-AC2
SCALE 1:50 (2 Nos.)



SECTION 1
SCALE 1:20



COLUMN-AC5
SCALE 1:50 (4 Nos.)

COLUMN-AC5-c
SCALE 1:50



COLUMN-AC5-d
SCALE 1:50

COLUMN-AC5-e
SCALE 1:50

COLUMN-AC5-f
SCALE 1:50

COLUMN-AC5-g
SCALE 1:50

COLUMN-AC5-h
SCALE 1:50

COLUMN-AC5-i
SCALE 1:50

COLUMN-AC5-j
SCALE 1:50

COLUMN-AC5-k
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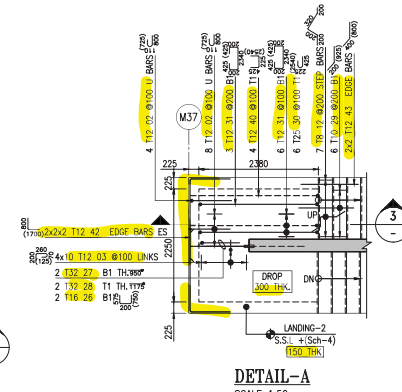
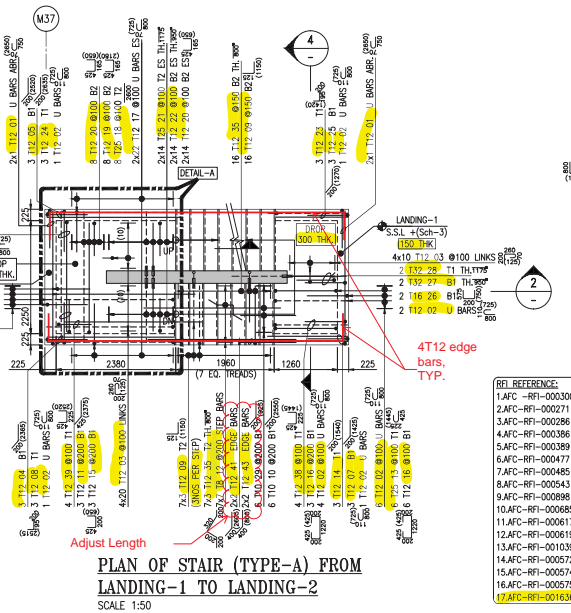
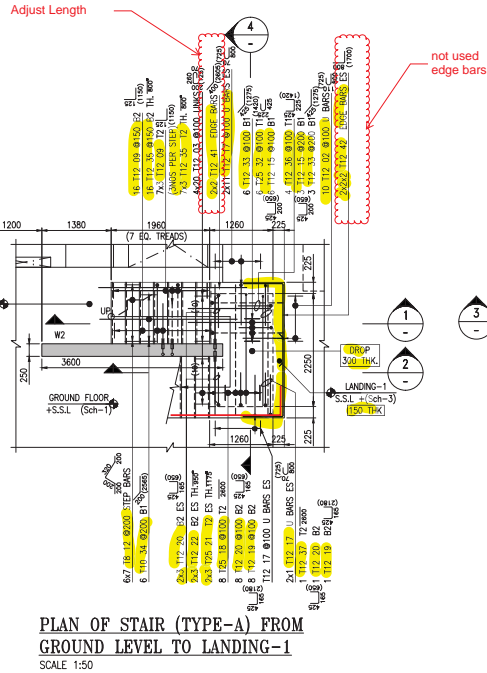
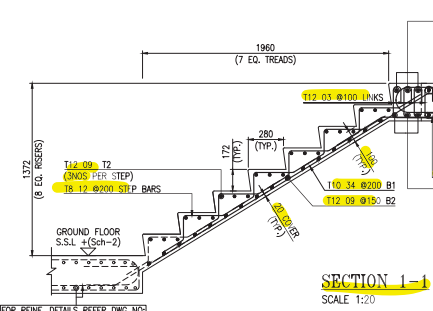


TABLE-A
MOBILITY DISTRICT

S.NO	BUILDING NAME	MSR
1	GROUND FLOOR SSL (Sch-1)	27.525
2	GROUND FLOOR FFL (Sch-2)	29.325
3	LANDING-1 SSL (Sch-3)	30.697
4	LANDING-2 SSL (Sch-4)	32.069

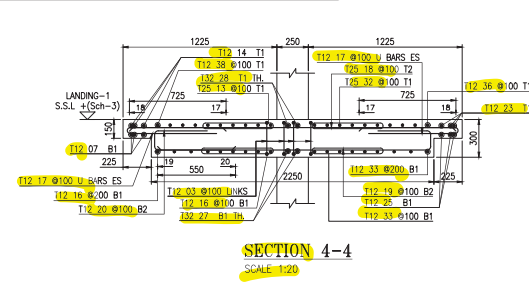
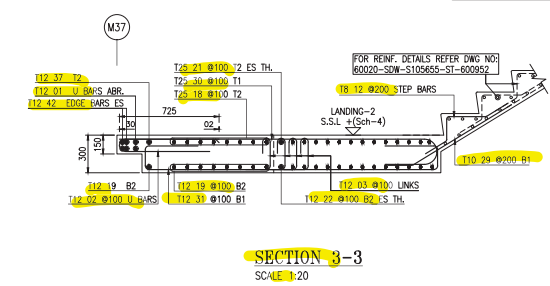
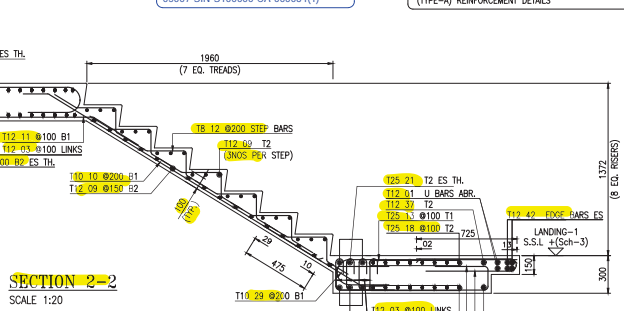
NOTES:
1. FOR BBS REFER TO BBS NO- 60020-BBS-S105655-ST-001051

SHOP DRAWINGS:
1. STAIRCASE (TYPE-A) GROUND FLOOR TO FIRST FLOOR REINFORCEMENT DETAILS - 60020-SDW-S105600-ST-600951 & 600952
2. STAIRCASE (TYPE-A) GROUND FLOOR TO UPPER GROUND REINFORCEMENT DETAILS - 60020-SDW-S105600-ST-600910
3. GROUND TO FIRST FLOOR STAIRCASE WALL (TYPE-A) REINFORCEMENT DETAILS - 60020-SDW-S100000-ST-600208



GENERAL ARRANGEMENT DRAWINGS:
1. MOBILITY DISTRICT SUPER STRUCTURE STAIRCASE KEY PLAN - 60020-SDW-S105600-ST-200004
2. SPECIAL PAVILION TYPE-A STAIRCASE (TYPE-A) GROUND FLOOR TO ROOF LEVEL GENERAL ARRANGEMENT SECTIONS & PLAN - 60020-SDW-S105655-ST-400001 & 400002

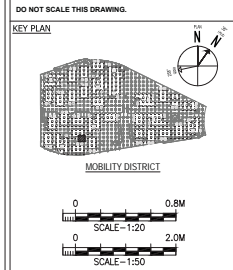
CONTRACT DRAWING REFERENCE:
1. GENERAL NOTES - 10026-DWG-S100000-ST-100004(A)
2. STANDARD DETAILS - 10026-DWG-S100000-ST-600019(A)
3. MOBILITY DISTRICT FIRST & SECOND FLOOR SLAB LAYOUT - 10026-DWG-S105600-ST-200002 TO 200006(B)
4. STAIR DETAILS - 10026-DWG-S100000-ST-600003(C)
5. WALL REINFORCEMENT SCHEDULE - 10026-DWG-S100000-ST-700005(C)



NOTE-1:
FOR CONCRETE DIMENSIONS REFER CONCRETE DIMENSIONS DRAWINGS.

NOTE-2:
BARS TO BE ADJUST (OR) TILT AT SITE TO SUIT.

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GENERAL NOTES:
1) ALL DIMENSIONS ARE IN MILLIMETER
2) ALL LEVELS ARE IN METER
3) CONCRETE GRADE Fc = C40MPa
4) REINFORCEMENT GRADE Fy = 460MPa
5) LAP LENGTH = AS PER LAP TABLE

LAP SPICE AND DEVELOPMENT SCHEDULE
(Fc = 40MPa, Fy = 460MPa)

BAR SIZE	TOP BARS	OTHERS	MINIMUM STANDARD
10	475	400	475
12	550	425	550
16	725	575	725
20	925	700	925
25	1400	1025	1400
32	1800	1375	1800
40	2225	1700	2225

WHERE HORIZONTAL BAR REINFORCEMENT IS PLACED MORE THAN 300MM OF FRESH CONCRETE IS CAST BELOW THE DEVELOPMENT LENGTH OR SPICE, THEN THE SPICE LENGTH SHOULD BE TOP OF CONCRETE COVER TO REINFORCEMENT STAIRCASE.

ALL SIDES = 20mm

REVISIONS

No	Description	Revised By	Date
1	FRST REVISION	24/01/2018	KRT

SAFETY, HEALTH AND ENVIRONMENT INFORMATION
Brief details on the identified hazard symbol referencing the unusual residual hazards / risks are listed above.

CLIENT:

PROGRAM/PROJECT MANAGEMENT CONSULTANT:

DESIGN CONSULTANT:

CONSULTANT:

MAIN CONTRACTOR:

SUB-CONTRACTOR:

PROJECT:

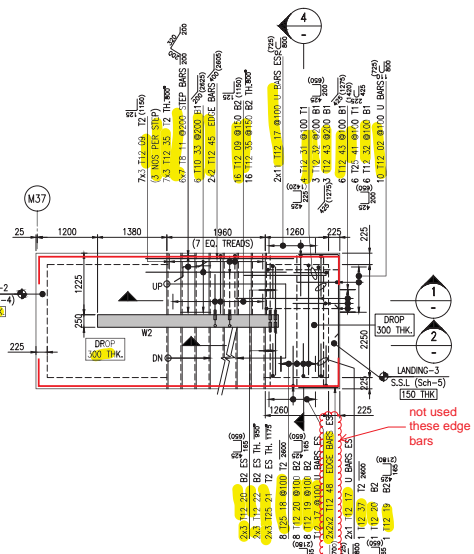
THEMATIC DISTRICTS MAIN CONTRACTOR-60020

Special Pavillion Type-A GROUND FLOOR TO LANDING-2 STAIRCASE (TYPE-A) REINFORCEMENT DETAILS (SHEET 1)

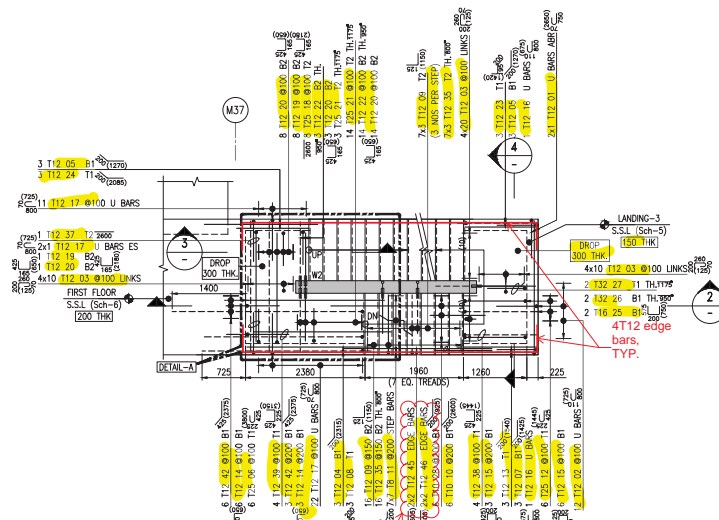
Approved	Drawn	Checked	Revision No.
MMM	KRT	KSK	1
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Scale: 1:20 & 1:50

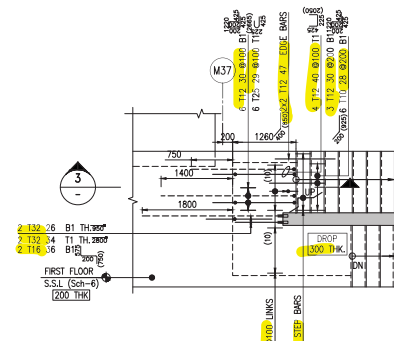
60020-SDW-S105655-ST-600951



PLAN OF STAIR (TYPE-A) FROM
LANDING-2 TO LANDING-3
SCALE 1:50



PLAN OF STAIR (TYPE-A) FROM
LANDING-3 TO FIRST FLOOR
SCALE 1:50



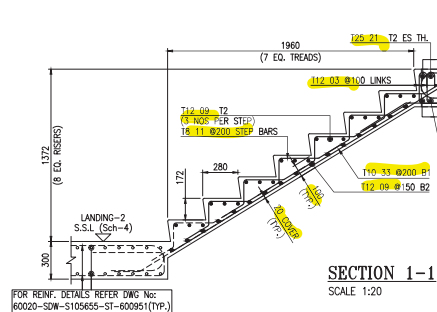
DETAIL-A
SCALE 1:50

REL REFERENCE:

1. AFC-RF-000271
2. AFC-RF-000286
3. AFC-RF-000386
4. AFC-RF-000388
5. AFC-RF-000477
6. AFC-RF-000485
7. AFC-RF-000543
8. AFC-RF-000898
9. AFC-RF-000885
10. AFC-RF-000617
11. AFC-RF-000619
12. AFC-RF-000575
13. AFC-RF-001039
14. AFC-RF-000572
15. AFC-RF-000574
16. AFC-RF-001636
17. AFC-RF-001398

TABLE-A
MOBILITY DISTRICT

S.NO	BUILDING NAME	MSR
1	LANDING-2 S.S.L (Sch-4)	32.069
2	LANDING-3 S.S.L (Sch-5)	33.442
3	FIRST FLOOR S.S.L (Sch-6)	34.815



SECTION 1-1
SCALE 1:20

GENERAL ARRANGEMENT DRAWINGS:

1. MOBILITY DISTRICT SUPER STRUCTURE STAIRCASE KEY PLAN	- 60020-SDW-S105600-ST-200004
2. SPECIAL PAVILION TYPE-A STAIRCASE (TYPE-A) GROUND FLOOR TO ROOF LEVEL GENERAL ARRANGEMENT SECTIONS & PLAN	- 60020-SDW-S105655-ST-400001 & 400002
3. SPECIAL PAVILION TYPE-A FIRST FLOOR GENERAL ARRANGEMENT SECTIONS & PLAN	- 60020-SDW-S105655-ST-201901

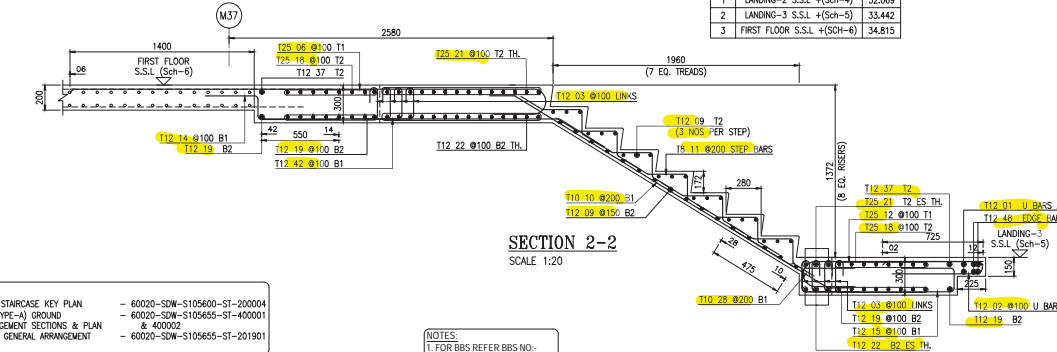
CONTRACT DRAWING REFERENCE:

1. GENERAL NOTES	- 10026-DWG-S100000-ST-100004(A)
2. STANDARD DETAILS	- 10026-DWG-S100000-ST-400019(A)
3. MOBILITY DISTRICT FIRST & SECOND FLOOR SLAB LAYOUT	- 10026-DWG-S105600-ST-200002 TO 200006(B)
4. STAR DETAILS	- 10026-DWG-S100000-ST-600003(E)
5. WALL REINFORCEMENT SCHEDULE	- 10026-DWG-S100000-ST-700005(G)

SHOP DRAWINGS:

1. STAIRCASE (TYPE-A) GROUND FLOOR TO FIRST FLOOR REINFORCEMENT DETAILS	- 60020-SDW-S105655-ST-600951 & 600952
2. GROUND TO FIRST FLOOR STAIRCASE WALL (TYPE-A) REINFORCEMENT DETAILS	- 60020-SDW-S100000-ST-600208

NOTES:
1. FOR BARS REFER BBS NO. 60020-BBS-S105655-ST-001052

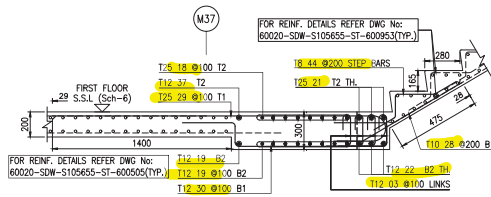


SECTION 2-2
SCALE 1:20

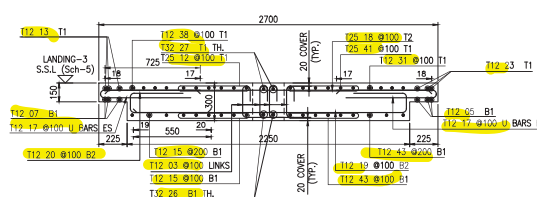
REDESIGN AS PER SITE INSTRUCTION
05007-SIN-S100000-CA-000064(1)

NOTE-1:
FOR CONCRETE DIMENSIONS REFER CONCRETE DIMENSIONS DRAWINGS.

NOTE-2:
BARS TO BE ADJUST (OR) TILT AT SITE TO SUIT.



SECTION 3-3
SCALE 1:20



SECTION 4-4
SCALE 1:20

ABBREVIATIONS:

T.O.C. - TOP OF CONCRETE	ES - EACH SIDE
B.O.C. - BOTTOM OF CONCRETE	EF - EACH FACE
T.O.S. - TOP OF SLAB	H - HORIZONTAL
T.O.F. - TOP OF FOOTING	V - VERTICAL
T1 - TOP FIRST LAYER	FF - FAR FACE
T2 - TOP SECOND LAYER	NF - NEAR FACE
B1 - BOTTOM FIRST LAYER	TYP. - TYPICAL
B2 - BOTTOM SECOND LAYER	STG. - STAGGERED
PB - PULL-OUT BAR	SLF - SIDE FACE
THK - THICKNESS	ALT. - ALTERNATE
TH - THREAD	TH - THREADED

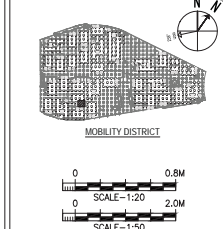
ADDL - ADDITIONAL
ABR - ALTERNATE BARS REVERSED
T.O.U. - TOP OF UPSTAND
SB - STIFFENING BEAM

HADD Note: Also refer to and read in conjunction with comments on relevant General Arrangement

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DO NOT SCALE THIS DRAWING.

KEY PLAN



GENERAL NOTES:

- 1) ALL DIMENSIONS ARE IN MILLIMETER
- 2) ALL LEVELS ARE IN METER
- 3) CONCRETE GRADE: F_c 40MPa
- 4) REINFORCEMENT GRADE: F_y = 460MPa
- 5) LAP LENGTH = AS PER LAP TABLE

LAP SPICE AND DEVELOPMENT SCHEDULE
(F_c = 40MPa, F_y = 460MPa)

BAR SIZE	TOP BARS	OTHERS	ANCHOR STANDARD HOOK
10	475	400	475
12	550	425	550
16	725	575	725
20	925	700	925
25	1400	1075	1400
32	1800	1375	1800
40	2225	COUPLER	775

WHERE HORIZONTAL BAR REINFORCEMENT IS PLACED MORE THAN 300MM OF FRESH CONCRETE IS CAST BELOW THE DEVELOPMENT LENGTH OR SPICE, THEN THE SPICE LENGTH SHOULD BE TOP.

a) CONCRETE COVER TO REINFORCEMENT STAIRCASE: ALL SIDE - 20mm

SAFETY, HEALTH AND ENVIRONMENT INFORMATION

Brief details on the identified hazard relating the structural residual hazards risks are listed below.

REVISIONS

1	FIRST ISSUE	24/01/2018	KRT
No.	Explanatory Note	Date	Dra

CLIENT:

PROGRAMME/PROJECT MANAGEMENT CONSULTING

DESIGN CONSULTANT

CONSULTANT

MAIN CONTRACTOR

SUB-CONTRACTOR

THEMATIC DISTRICTS MAIN CONTRACTOR-60020

Project:

Special Pavilion Type-A

LANDING-2 TO FIRST FLOOR STAIRCASE

(TYPE-A) REINFORCEMENT DETAILS

(SHEET 2)

Drawn By:

Checked By:

Scale: A1 (894x641)

Scale: 1:20 & 1:50

Revision No: 1

Date: 24/01/2018

Project:

Project:

Project:

Project:

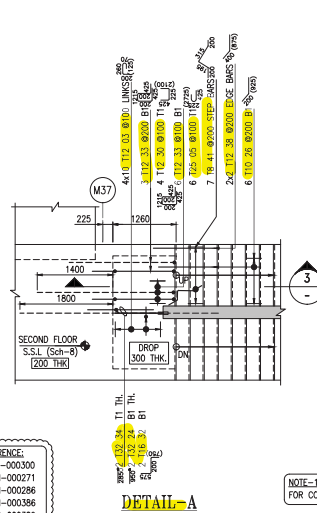
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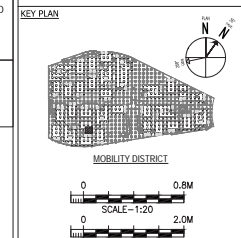
Project:



PLAN OF STAIR (TYPE-A) FROM
LANDING-4 TO SECOND FLOOR
SCALE 1:50

ABBREVIATIONS:		
ES - EACH SIDE	EF - EACH FACE	
T.O.S - TOP OF SLAB	H - HORIZONTAL	
V - VERTICAL	T1- TOP FIRST LAYER	
FF - FAR FACE	NF - NEAR FACE	
T2 - TOP SECOND LAYER	THK - THICKNESS	
B1 - BOTTOM FIRST LAYER	TYP. - TYPICAL	
B2 - BOTTOM SECOND LAYER	STG. - STAGGERED	
CP - COUPLER BARS		
TH. - THREADED		
ABR - ALTERNATE BARS REVERSED		
BAR MARKS TO BE READ AS:		
1b 125 01 @ 175 B1		
MULTIPLIERS		NOTES
NO. OF BARS	→	→ SPACING
DIA OF BAR	→	→ BAR MARK

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GENERAL NOTES:

- 1) ALL DIMENSIONS ARE IN MILLIMETER
- 2) ALL LEVELS ARE IN METER
- 3) CONCRETE GRADE F'c C40MPa
- 4) REINFORCEMENT GRADE Fy = 460MPa
- 5) LAP LENGTH = AS PER LAP TABLE

NOTES:
1. FOR BBS REFER BBS NO:-
40020 BBS 610545E ST 001053

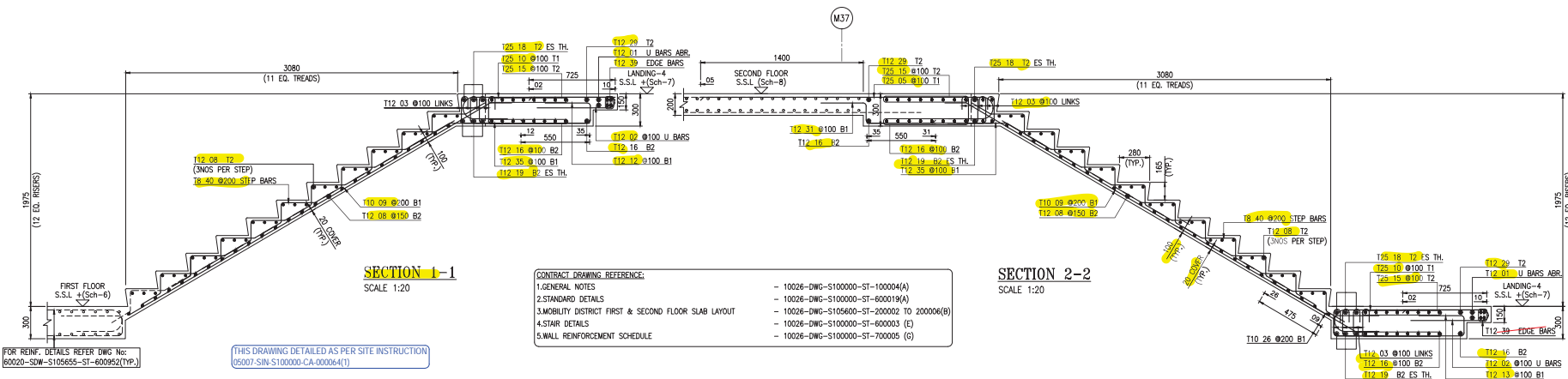
NOTE-1:
FOR CONCRETE DIMENSIONS REFER CONCRETE DIMENSIONS DRAWINGS.

TABLE-A		
MOBILITY DISTRICT		
S.NO	BUILDING NAME	MSR
1	FIRST FLOOR S.S.I. +(Sch-6)	34.81
2	LANDING-4 S.S.I. +(Sch-7)	36.79
3	SECOND FLOOR S.S.I. +(Sch-8)	38.76

WHERE HORIZONTAL BAR REINFORCEMENT IS PLACED MORE THAN 300MM OF FRESH CONCRETE IS CAST BELOW THE DEVELOPMENT LENGTH OR SPICE, THEN THE SPICE LENGTH SHOULD BE TOP.

6) CONCRETE COVER TO REINFORCEMENT STAIRCASE:-

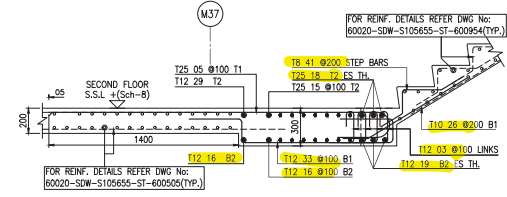
ALL SIDES = 20mm



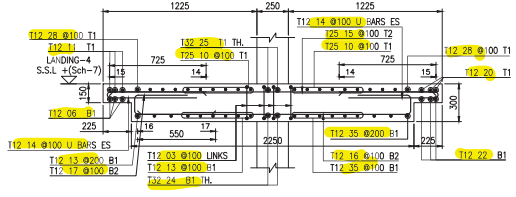
SECTION 1-1
SCALE: 1:20

SECTION 2-2

<u>CONTRACT DRAWING REFERENCE:</u>	
1. GENERAL NOTES	- 10026-DWG-S100000-ST-100004(A)
2. STANDARD DETAILS	- 10026-DWG-S100000-ST-600019(A)
3. MOBILITY DISTRICT FIRST & SECOND FLOOR SLAB LAYOUT	- 10026-DWG-S105600-ST-200002 TO 200006(B)
4. STAIR DETAILS	- 10026-DWG-S100000-ST-600003 (E)
5. WALL REINFORCEMENT SCHEDULE	- 10026-DWG-S100000-ST-700005 (G)



SECTION 3-3
SCALE 1:20



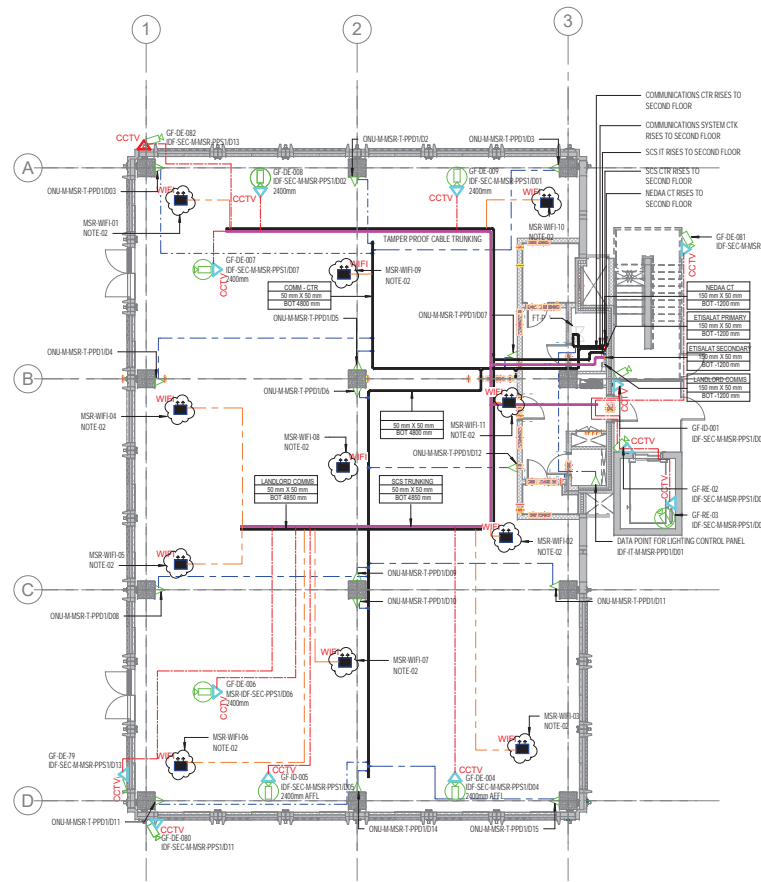
SECTION 4-4
SCALE 1:20

C E R T I F I C A T I O N			
THE CONTRACTOR CERTIFIES THAT THIS DRAWING HAS BEEN COORDINATED, CHECKED FOR COMPLIANCE WITH THE CONTRACT.			
ENGINEER DOCUMENT REVIEW			
Document reviewed for compliance with the design concept and to not contain any errors or omissions that would affect the ability of the contractor from its contractual obligations, nor does it authorize change in the Contract Documents. (Initials)			
<input type="checkbox"/> A. APPROVED <input checked="" type="checkbox"/> B. APPROVED WITH COMMENTS <input type="checkbox"/> C. REJECTED <input type="checkbox"/> D. RECEIVED FOR INFORMATION			
REVIEWED BY DISCIPLINE	STATUS	SIGNATURE	DATE
Architectural (DA)	Due	GW	15/02/21
Duke Municipality (in contract)			
Document (in contract)		B	Mar 8-23/2021
Electrical (Phase I-IV)			
Mechanical (Phase I-IV)			
Plumbing (Phase I-IV)			
Others			
SUBMITTAL / TRANSMITTAL NO.		REV.	
ENGINEER / Inspector / Architects			15/02/21

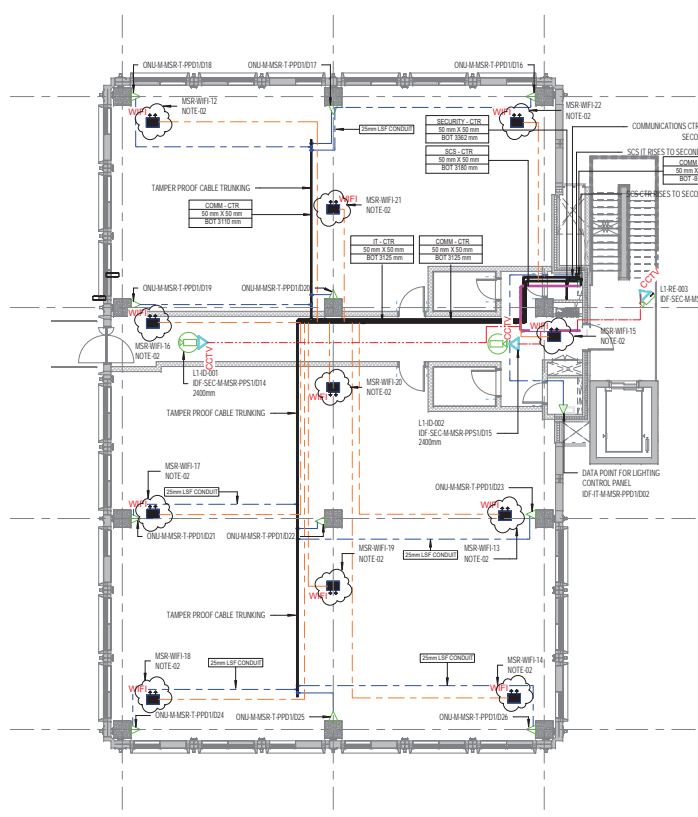
SUB-CONTRACTOR:  CADS 3400 Highway 104, Suite 100 Dallas, TX 75243 Tel: 972.412.1000 Fax: 972.412.1001 Web: www.cads.ca		CSI NETWORK SERVICES P.O. BOX 6042, DALLAS, TX, U.S.A. TEL: 972.336.0007 FAX: 972.336.0009 Web: www.csi.ca	
Project			
THEMATIC DISTRICTS MAIN CONTRACT-60020			
Drawing Title			
SPECIAL PAVILION TYPE-A FIRST FLOOR TO SECOND FLOOR STAIRCASE (TYPE-A) REINFORCEMENT DETAILS			
Approved	Drawn	Checked	Issue Date
MMM			29/10/2018
Description		Checked	
N/A		KRT	KSK
Model File (Rev.)		Scale: A1: 6094x841	Revision
N/A		1:20 & 1:50	1
Drawing No.			
60020-SDW-S105655-ST-600953			



12.0 ICT Drawings



1 MSR - GROUND FLOOR - OPTION S1 - ICT SYSTEMS LAYOUT
SCALE: 1 : 100



2 MSR - FIRST FLOOR - OPTION S1 - ICT SYSTEMS LAYOUT
SCALE: 1 : 100

NOTE:
ALL ELECTRICAL WORK LEVELS ARE TAKEN FROM SPECIFICALLY DEFINED REFERENCE LEVELS, (GF +0.00) (1ST FLOOR LEVEL +0.20) AND FF +5.40000 LEVEL +34.815) TO BOTTOM OF CABLE TRAY AND TRUNKING.

COMMENTS:
- PROVIDE A SCHEMATIC DIAGRAM FOR SECURITY AND TELECOM SYSTEM. ALL CIRCUIT REFERENCES IN SHOP DRAWING LAYOUT SHALL BE IN LINE WITH THE SEQUENCE INDICATED IN THE SCHEMATIC DIAGRAM.
- ALL CONTAINMENT SHALL BE COORDINATE WITH OTHER SERVICES.
- ENSURE CABLE TRUNKING SHALL BE TAMPER PROOF LID.
- PROVIDE SECURITY AND COMMS RACK ELEVATION DETAILS.
- DATA POINTS FOR CCTV SHALL BE IN LINE WITH THE SIRA APPROVED DRAWING.
- ANY CHANGES OR ADDITIONAL IN SHOP DRAWING FOR ICT SYSTEM LAYOUT AS PER SITE CONDITION, THE CONTRACTOR ARE RESPONSIBLE TO UPDATE THE SHOP DRAWING AND SHOULD BE REFLECT IN AS-BUILT DRAWING.
- ENSURE ARCHITECTURAL PLAN ARE UPDATED AS PER LATEST ISSUED BY CONSULTANT.

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	DATA OUTLET	450MM FROM FFL
	ONU OUTLET	450MM FROM FFL
	BMS OUTLET	450MM FROM FFL
	CCTV R445 OUTLET	AT HIGH LEVEL
	DATA OUTLET FOR ACCESS CONTROL	
	DATA OUTLET FOR LIGHTING CONTROL PANEL	
	COMMUNICATION TRUNKING	SIZE AS INDICATED
	SECURITY SCB TRUNKING	SIZE AS INDICATED
	NEDAA FIBER CABLE TRAY	SIZE AS INDICATED
	ETISALAT PRIMARY FIBER CABLE TRAY	SIZE AS INDICATED
	ETISALAT SECONDARY FIBER CABLE TRAY	SIZE AS INDICATED
	LANDLORD COMM FIBER CABLE TRAY	SIZE AS INDICATED
	SECURITY CABLE TRAY	SIZE AS INDICATED
	LANDLORD IT TRUNKING	SIZE AS INDICATED
	WIFI ACCESS POINT	
	WIFI EXTERNAL ACCESS POINT	

GENERAL:
1. ALL DIMENSIONS ARE IN MILLIMETERS.
2. 25mm GI CONDUIT EXTENDED FROM NEAREST LANDLORD IT CABLE TRAY TRUNKING TO WIFI AP POINTS. THIS IS AS PER SITE INSTRUCTION S10-00020-SIN-0424 THE WIRING TO WIFI AP POINTS AND INSTALLATION OF WIFI AP POINTS NOT IN SCOPE.

ABBREVIATION:
U: DATA
V: VOICE
AF: ABOVE FINISHED FLOOR LEVEL
ACS: ACCESS CONTROL SYSTEM
CB: CENTRAL BATTERY SYSTEM
CDW: DRAWING
DDC: DIRECT DIGITAL CONTROL
HL: HIGH LEVEL, AT TOP OF CEILING
LL: LOW LEVEL
IP: INGRESS PROTECTION
LSF: LOW SMOKE AND FUMES
IDF: INTERNAL DATE DISTRIBUTION FRAME
CDF: OPTICAL FIBER DISTRIBUTION FRAME
MDF: MAIN DISTRIBUTION FRAME
MCR: MULTIMEDIA CONTROL ROOM
WAP: WIRELESS ACCESS POINT
U.O.S: UNLESS OTHERWISE STATED
N.T.S: NOT TO SCALE
NO: NUMBER
SD: SET DOWN
SU: SET UP
TA: TO ABOVE
TB: TO BELOW
W: WIDTH
WP: WEATHER PROOF
AND: AND
Ø: DIAMETER
F.A: FROM ABOVE
F.B: FROM BELOW
M.M: MILLIMETERS
G.I: GALVANIZED IRON

SUPERSCRIPT & SUBSCRIPT EXPLANATION:
"C" DENOTES CEILING MOUNTED
"F" DENOTES PENDENT MOUNTED
"S" DENOTES SPOFFIT MOUNTED
"W" DENOTES WALL MOUNTED
"20" DENOTES TWIN DATA
M.C: METAL CLAD
W.P: WHETHER PROOF

DEVICE	HEIGHT FROM FFL TO BOTTOM OF THE DEVICE, UNLESS OTHERWISE MENTIONED IN THE LAYOUT	REMARKS
DATA	450	
TELEPHONE	450	
DATA FOR BMS ELEVATOR	NEAR TO THE EQUIPMENT	FINAL LOCATION AS PER SITE CO-ORDINATION

CABLE TRUNKING SIZE IN MM	NO. OF CAT 6A UTP CABLES
50X50	14
75X75	25
100X75	50

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DO NOT SCALE THIS DRAWING.

KEY PLAN

MOBILITY DISTRICT

GENERAL NOTES:

DESIGN DRAWING REFERENCE

DRAWING TITLE	DRAWING NUMBER	REV	DATE
ICT LAYOUT	60020-MDS-S10555-S1-200006	A	07/08/2018

REVIT LINK REFERENCE MODEL

DISCIPLINE	MODEL NUMBER	DATE
STRUCTURAL	60020-MDS-S10555-S1-000003	
MECHANICAL	60020-MDS-S10555-S1-000003	

SAFETY, HEALTH AND ENVIRONMENT INFORMATION

Brief details on the identified hazard symbol referencing the unusual residual hazards / risks are listed above.

CLIENT: EXPO 2020

PROGRAMME/PROJECT MANAGEMENT CONSULTANT: ch2m mace

DESIGN CONSULTANT: Hopkins Architects

MAIN CONTRACTOR: Al-Futtaim

MEP Contractor: Al-Futtaim engineering MEP

Project: THEMATIC DISTRICTS MAIN CONTRACTOR-60020

Drawing Title: MOBILITY DISTRICT SPECIAL RENTED PAVILION

MSR - GROUND FLOOR - OPTION S1 & FIRST FLOOR - OPTION S1 - ICT SYSTEMS LAYOUT

Approved: AK

Designed: MU

Model File Ref: 60020-MDS-S10555-S1-000033

Scale: 1:100

Revision No: 1

Revision Date: 07/08/2018

Checked: MU

Revised By: MU

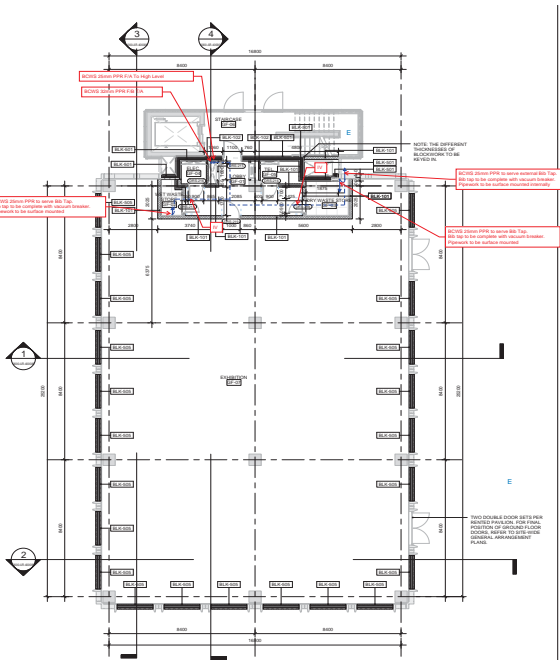
Revised Date: 07/08/2018

Signature: [Signature]

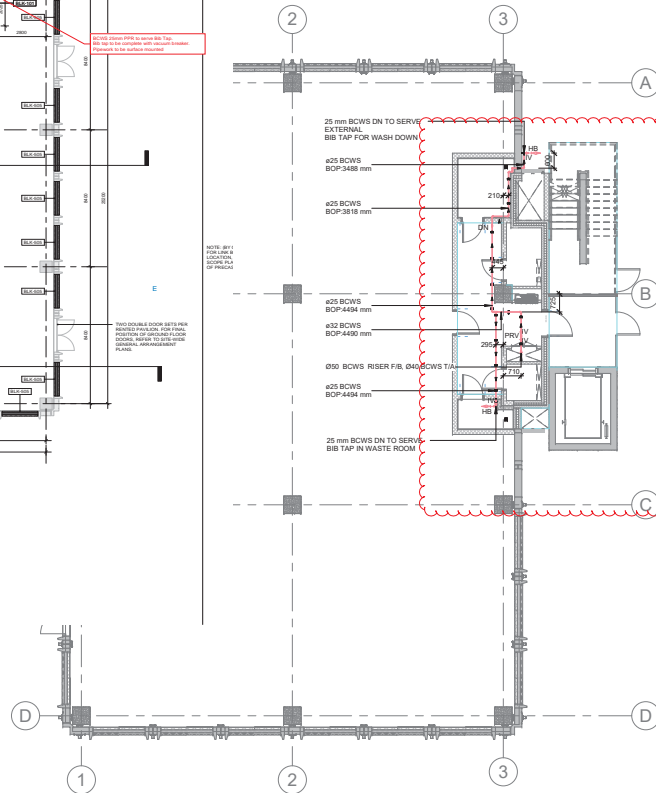
Date: 26/07/2018



13.0 Water Supply Drawings



1 RP01 GROUND FLOOR PLAN
1:100



1 MSR - GROUND FLOOR - WATER SUPPLY LAYOUT
SCALE: 1:100

ABBREVIATIONS:

BCWS	BOOSTED COLD WATER SUPPLY
IV	ISOLATION VALVE
WC	WATER CLOSET
CV	CHECK VALVE
PG	PRESSURE GAUGE
GV	GATE VALVE
DCV	DOUBLE CHECK VALVE
DN	DOWN
PRV	PRESSURE REDUCING VALVE
EW	ELECTRICAL WATER HEATER
HS	HANDSPRAY
T/A	TO ABOVE
T/B	TO BELOW
F/A	FROM ABOVE
F/B	FROM BELOW
HB	HOSE BIB TAP
AC	ANGLE COCK VALVE
WM	WATER METER
WHB	WASH HAND BASIN

Plumbing Water Piping Material

1) BCWS WATER PIPEWORK MATERIAL SHALL BE AS FOLLOWS:
a) BCWS WATER PIPEWORK
- SIZES 62MM TO Ø110MM (PPR PN20)
- SIZES ABOVE Ø110MM (UPVC CLASS-E)

NOTE:
ALL PIPE WORK LEVELS ARE TAKEN FROM SPECIFICALLY DEFINED REFERENCE LEVELS OF +0.000 (FIND LEVEL +20.325) TO BOTTOM OF PIPE.

PPR PIPE (PN20) (SDRS)				
S.No	PIPE DIAMETER (mm)	INSIDE DIAMETER (mm)	WALL THICKNESS (mm)	OUTSIDE DIAMETER (mm)
1	20	13.2	3.4	16.6
2	25	16.6	4.2	20.8
3	32	21.2	5.4	26.6
4	40	26.6	6.7	33.3
5	50	33.2	8.3	41.5
6	63	42	10.5	52.5
7	75	50	12.5	62.5
8	90	60	15	75
9	110	73.2	18.3	91.5

SCHEDULE OF PIPES & SUPPORT SPACING					
S.No	MATERIAL DESCRIPTION	APPLICATION	PIPE DIAMETER (mm)	G.I. THREADED ROD DIA (mm)	SUPPORT SPACING (mm)
1	PPR PIPES	BCWS PIPES ABOVE GROUND	20 mm	8 mm	1000
			25 mm	8 mm	1000
			32 mm	8 mm	1000
			40 mm	8 mm	1000
			50 mm	8 mm	1000
			63 mm	8 mm	1000
			75 mm	10 mm	1000
			90 mm	10 mm	1000
			110 mm	10 mm	1000
			150 mm	12 mm	1000
			200 mm	12mm	1000

CERTIFICATION

THE CONTRACTOR CERTIFIES THAT THIS DRAWING HAS BEEN INCORPORATED FOR COMPLIANCE WITH THE CONTRACT.

ENGINEER DOCUMENT REVIEW

Document reviewed for compliance with the design contract and is not intended for use as a basis for construction. This document does not release the contractor from his contractual obligations, nor does it constitute changes to the Contract Documents.

APPROVED

APPROVED WITH COMMENTS

REJECTED

REVIEWED BY DISCIPLINE	STATUS	SIGNATURE	DATE
Architectural	B	AZA	25/08/18
Structural			
Electrical	NA		
Mechanical	NA		
Plumbing	B	ABM	19/08/2018
Others			
SUBMITTAL / TRANSMITTAL NO.	REV.		
ENGINEER			
Signature	DATE	25/08/18	

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DO NOT SCALE THIS DRAWING.

KEY PLAN

MOBILITY DISTRICT

GENERAL NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
- ALL LEVELS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
- ALL PIPES ARE NOMINAL DIAMETER IN MILLIMETERS UNLESS OTHERWISE NOTED.
- ALL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.
- FOR PIPING INSTALLATION DETAILS REFER TO (60020-SDW-S-105655-ME-600019).

DESIGN DRAWING REFERENCE

DRAWING TITLE	DRAWING NUMBER	REV	DATE
PIPE SERVICE	10020-SDW-S-105655-ME-200001	A	05/10/2017
SCHEMATIC	10020-SDW-S-105655-ME-600001	A	05/10/2017

REVIT LINK REFERENCE MODEL

DISCIPLINE	MODEL NUMBER	DATE
ARCHITECTURAL	60020-MDL-S-105655-AR-000003	
STRUCTURAL	60020-MDL-S-105655-ST-000003	

SAFETY, HEALTH AND ENVIRONMENT INFORMATION

Brief details on the identified hazard symbol referencing the unusual residual hazards / risks are listed below.

No.	FIRST ISSUE	DATE	CHK	APR
1	Explanatory Note	07/08/2018	AB	MD

CLIENT:

PROGRAMME/PROJECT MANAGEMENT CONSULTANT:

DESIGN CONSULTANT:

MAIN CONTRACTOR:

MEP-Contractor:

Project:

THEMATIC DISTRICTS MAIN CONTRACTOR-60020

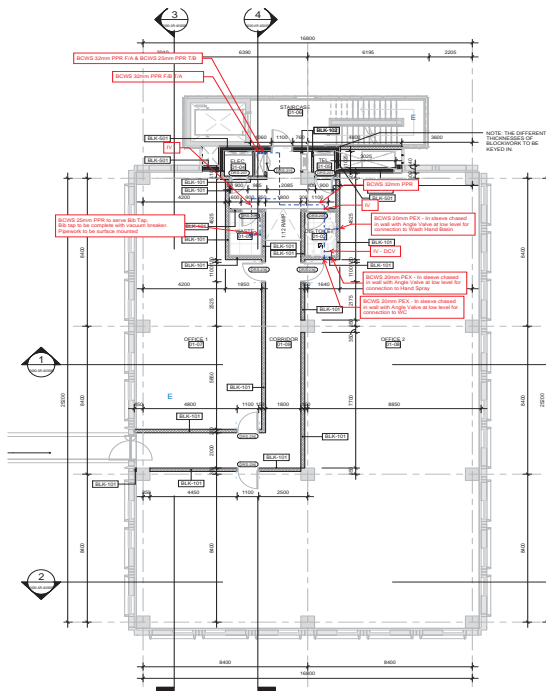
Drawing Title:

MOBILITY DISTRICT

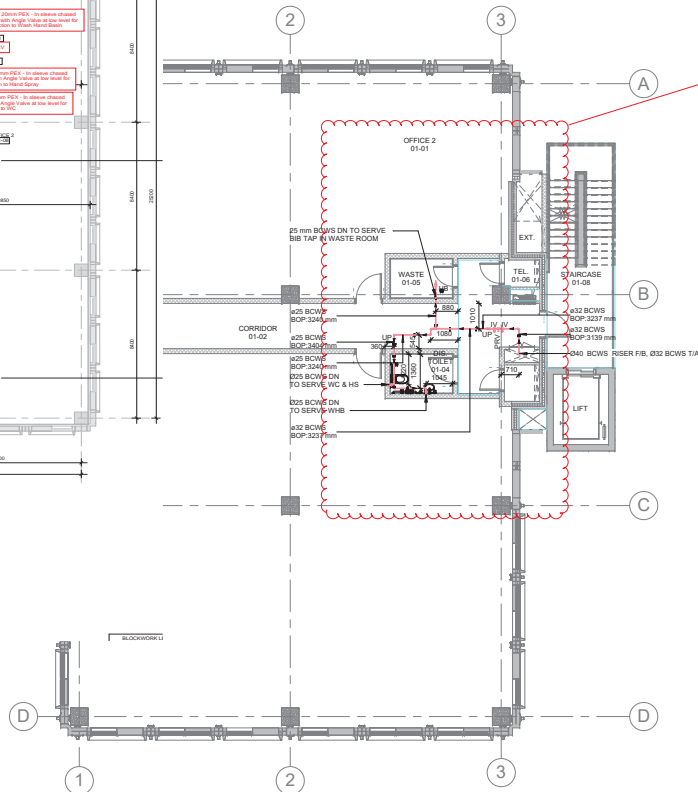
SPECIAL RENTED PAVILION

MSR - GROUND FLOOR - WATER SUPPLY LAYOUT

Approved	Signature	Seal Date
SL		07/08/2018
Designed	Drawn	Checked
N/A	AB	MG
Model File Ref.	Scale	Revision No.
60020-MDL-S-105655-BS-000033	A1(504x841)	1
Drawing No.	As indicated	
60020-SDW-S-105655-WP-2GF001		



② RP01_FIRST FLOOR PLAN_A1
1 : 100



① MSR - FIRST FLOOR - WATER SUPPLY LAYOUT
SCALE: 1 : 100

ABBREVIATIONS:	
BCWS	BOOSTED COLD WATER SUPPLY
IV	ISOLATION VALVE
WC	WATER CLOSET
CV	CHECK VALVE
PG	PRESSURE GAUGE
GV	GATE VALVE
DCV	DOUBLE CHECK VALVE
DN	DOWN
PRV	PRESSURE REDUCING VALVE
EWH	ELECTRICAL WATER HEATER
HS	HANDSPRAY
T/A	TO ABOVE
T/B	TO BELOW
F/A	FROM ABOVE
F/B	FROM BELOW
HB	HOSE BIB TAP
AC	ANGLE COCK VALVE
WM	WATER METER
WYB	WASH HAND BASIN

Plumbing Water Piping Material

1) BCWS WATER PIPEWORK MATERIAL SHALL BE AS FOLLOWS:
a) BCWS WATER PIPEWORK
- SIZES 60MM TO 100MM (PPR PH20)
- SIZES ABOVE 110MM (uPVC CLASS-E)

NOTE:
ALL PIPE WORK LEVELS ARE TAKEN FROM SPECIFICALLY DEFINED REFERENCE LEVELS.
FF +4.400 (SND LEVEL) -34.810 TO BOTTOM OF PIPE.

PPR PIPE PH20 (SDR9)				
S.No	PIPE DIAMETER (mm)	INSIDE DIAMETER (mm)	WALL THICKNESS (mm)	OUTSIDE DIAMETER (mm)
1	20	13.2	3.4	16.6
2	25	16.6	4.2	20.8
3	32	21.2	5.4	26.6
4	40	26.6	6.7	33.3
5	50	33.2	8.3	41.5
6	63	42	10.5	52.5
7	75	50	12.5	62.5
8	90	60	15	75
9	110	73.2	18.3	91.5

SCHEDULE OF PIPES & SUPPORT SPACING					
S.No	MATERIAL DESCRIPTION	APPLICATION	PIPE DIAMETER (mm)	DI. THREADED ROD DIA	SUPPORT SPACING (mm)
1	PPR PIPES	BCWS PIPES ABOVE GROUND	20 mm	8 mm	1000
			25 mm	8 mm	1000
			32 mm	8 mm	1000
			40 mm	8 mm	1000
			50 mm	8 mm	1000
			63 mm	8 mm	1000
			75 mm	10 mm	1000
			90 mm	10 mm	1000
			110 mm	10 mm	1000
			150 mm	12 mm	1000
			200 mm	12 mm	1000

CERTIFICATION

THE CONTRACTOR CERTIFIES THAT THIS DRAWING HAS BEEN CORROBORATED CHECKED FOR COMPLIANCE WITH THE CONTRACT.

ENGINEER DOCUMENT REVIEW

Document reviewed for compliance with the design contract and is not intended for use as a basis for any other purpose. This document is not intended for use as a basis for any other purpose. This document is not intended for use as a basis for any other purpose.

A. APPROVED
B. APPROVED WITH COMMENTS
C. REJECTED

REVIEWED BY DISCIPLINE	STATUS	SIGNATURE	DATE
Architectural	B	AZA	25/08/18
Structural	NA		
Electrical	NA		
Mechanical	NA		
Plumbing	B	ABM	19/08/2018
Others			
SUBMITTAL / TRANSMITTAL NO	REV		
ENGINEER			
Signature			DATE: 25/08/18

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DO NOT SCALE THIS DRAWING.

KEY PLAN

MOBILITY DISTRICT

SCALE: 1 : 100

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. ALL LEVELS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
3. ALL PIPE SIZES ARE NOMINAL DIAMETER IN MILLIMETERS UNLESS OTHERWISE NOTED.
4. ALL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.
5. FOR SUPPORT INSTALLATION DETAILS REFER TO (60020-SDW-S105655-ME-000119).

DESIGN DRAWING REFERENCE

DRAWING TITLE	DRAWING NUMBER	REV	DATE
PIPE SERVICE	10020-SDW-S105655-ME-000191	A	05/10/2017
SCHEMATIC	10020-SDW-S105655-ME-000191	A	05/10/2017

REVIT LINK REFERENCE MODEL

DISCIPLINE	MODEL NUMBER	DATE
ARCHITECTURAL	10020-MDL-S105655-AR-000133	
STRUCTURAL	60020-MDL-S105655-ST-000133	

SAFETY, HEALTH AND ENVIRONMENT INFORMATION

Brief details on the identified hazard symbol referencing the unusual residual hazards / risks are listed above.

No.	FIRST ISSUE	DATE	CHK	APR
1	Explanatory Note	07/08/2018	ABM	MD

CLIENT:

PROGRAMME/PROJECT MANAGEMENT CONSULTANT:

ch2m mace

DESIGN CONSULTANT:

Hopkins Architects

MAIN CONTRACTOR:

القطر هابن

Al-Futtaim carillion

MEP-Contractor:

Al-Futtaim engineering

Project

THEMATIC DISTRICTS MAIN CONTRACTOR-60020

Drawing Title

MOBILITY DISTRICT

SPECIAL RENTED PAVILION

MSR - FIRST FLOOR - WATER SUPPLY LAYOUT

Approved	Seal Date
SL	07/08/2018
Designed	Drawn
N/A	AB
Model File Ref.	Scale
60020-MDL-S105655-BS-000133	A1(504x841)
As indicated	1

60020-SDW-S105655-WP-201001



14.0 Lighting Drawings



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