

RETAIL DESIGN & DELIVERY SUBMITTAL & TRANSMITTAL FORM									
MALL / PROPERTY NAME:		AL KOUTH MALL		BRAND NAME:		CLARK'S		UNIT NUMBER: G-07	
SUBMITTAL / TRANSMITTAL NO.:			OO1		003		SUBMITTAL DATE: 24-Sep-17		
INVESTOR and/or AUTHORIZED REPRESENTATIVE		NAME of Investor / Authorized Representative		CONTACT No. of Investor / Authorized		90022060		E-mail Address of Investor / Authorized Representative	
		JASHANMAL						rafat@jashanmal.net	
CONTRACTOR'S AUTHORIZED REPRESENTATIVE		COMPANY NAME		NAME of Contractor's Project Manager		CONTACT No.		E-mail Address	
		Lanouvville Interiors		Eng.Dory Hanna		99825584		dory@lanouvvelint.com	
<div style="display: flex; justify-content: space-between;"> <div> ONE (1) SUBMITTAL / TRANSMITTAL for each SUBMITTAL TYPE </div> <div> <input checked="" type="checkbox"/> NEW SUBMITTAL <input type="checkbox"/> RE-SUBMITTAL <input type="checkbox"/> OTHERS </div> </div>									
ITEM NO.	DRAWING TITLE / DESCRIPTION	SUBMITTAL TYPE	DRAWING NO.	REVISION NO.	NO. OF COPIES	CODE			COMMENTS / REMARKS
						A	B	X	
		CONCEPT DESIGN; ARCHITECTURAL & MEP DETAILED DESIGN; SIGNAGE; HOARDING; KFD/FIRE ALARM, FIRE FIGHTING, EMERGENCY & EXIT; AS BUILT; MATERIAL SAMPLE; SPECIFICATIONS; SURVEYS; INSURANCE, ETC.				APPROVED	APPROVED AS NOTED	REVISE & RESUBMIT	
1	COMPOSIT LAYOUT		CO-01		1	1			
2	FIRE FIGHTING LAYOUT		FF-01		1	1			
3	LIGHTING LAYOUT		LI-01		1	1			
4	HVAC LAYOUT		AC-01		1	1			
5	POWER LAYOUT		PW-01		1	1			
6	SMOKE DETECTOR LAYOUT		SM-01		1	1			
7	EM-&EX-LAYOUT		EMX-01		1	1			
8	SPEAKER LAYOUT		SP-01		1	1			
9	DB SCHEDULE management				1	1			
9	HEAT LOAD				1	1			
	24 SEP 2017								

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 24 SEP 2017

RETAIL DESIGN & DELIVERY			
Received By: RD&D Coordinator <i>W/M</i>		Sr. MEP / MEP Engineer	
Name / Signature / Date		Name / Signature / Date	
Name: _____ Signature: _____ Date: _____		Name: _____ Signature: _____ Date: _____	
RD&D Coordinator		Sr. Manager and/or General Manager	

Investor / Contractor
 I hereby certify that the above submitted items have been reviewed in detail and are correct in the strict conformance with the contract requirement except as otherwise stated.
 Name: THOMAS JOY Tel. No.: 90020031 Date: 24-Sep-17
 Authorized Signature / Date: _____

NOTE: DOCUMENTS & DRAWING SUBMITTAL(S) MUST BE SUBMITTED AT GLA OFFICE FROM 8:00AM TO 5:00PM (SUNDAY TO THURSDAY). SUBMITTAL(S) AFTER 5:00PM WILL BE STAMPED THE NEXT WORKING DAY'S DATE.
 • ALL DRAWING SUBMITTALS MUST BE IN: A) A3 SIZE PAPER; B) COLOR; C) SOFTCOPY ON CD WHICH INCLUDES AUTOCAD DRAWINGS (DWG) & ACROBAT (PDF) FILES.
 • DRAWINGS SUBMITTED IN OTHER PAPER SIZE SUCH AS A0, A1, A2, ETC. SHOULD BE SUBMITTED IN THREE (3) HARDCOPIES TOGETHER WITH A SOFTCOPY ON CD;
 • OTHER DOCUMENTS SUCH AS INSURANCE(Original), CERTIFICATIONS, LETTERS, CATALOGUES, SPECIFICATIONS, ETC. SHOULD BE SUBMITTED ONLY IN A4 or A3 PAPER SIZE TOGETHER WITH SOFTCOPY ON CD.

Clarks - AL Kout Mall

DB - 10 ways -- Isolator 100 A TPN on load type, 40A 4P COELCB 300mA with contactor for Lighting , 40A 4P COELCB 30mA for

Power

CKT	PHASE	MCB Rating	WIRE SIZE	Controlled by	DESCRIPTION	Watts per point	LOAD (W)			
							R	Y	B	
1	R	16	2.5	CONTROLLED BY CONTACTOR 40A	L1 (P0532 + P4401 + womens pendant)	6x25 + 1x15 + 1x50	215			
	Y	16	2.5		L2 (P0532 + P4401 + P4402)	5x25 + 3x15 + 2x20		210		
	B	16	2.5		L3 (P0532 + P4401)	6x25 + 2x15			180	
	R	16	2.5		Entrance (P4402 + D4477)	4x20 + 2x20	120			
	Y	16	2.5		L4 (P0532 + P4401)	5x25 + 1x15		140		
2	B	16	2.5		Display (S4307JA)	2x75			150	
	R	16	2.5		Chandelier	5x50	250			
	Y	16	2.5		Furniture Display D -1	3x100		300		
	B	16	2.5		Furniture Display D -2	3x100			300	
	R	16	2.5		Furniture Display D -3	3x100	300			
3	Y	16	2.5		Furniture Display D -4	3x100		300		
	B	16	2.5		Furniture Display D -5	3x100			300	
	R	16	2.5		Furniture Display D -6	3x100	300			
	Y	16	2.5		Signage	1x300		300		
	B	16	2.5		EX & EM	8X10 + 3X10			110	
4	R	16	2.5		L - Store	6X50	300			
	Y	16			Spare					
	B	16			Spare					
	R	20	4		Cashier - 1	2x200	400			
	Y	20	4		Cashier - 2	2x200		400		
5	B	20	4		Store	2x200			400	
	R	20	4		Utility - 1	2x200	400			
	Y	20	4		Utility - 2	2x200		400		
	B	20	4		Utility Store	3x200			600	
	R	20	4		P - IT	2x200	400			
6	Y	20	4		AC	550		550		
	B	20	4		P - CCTV	2x200			400	
	R	20			Spare					
	Y	20			Spare					
	B	20			Spare				70	
					7795		2685	2600	2510	
					TOTAL LOAD = 7.795 KW					


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G-01 RETAIL

1. General Details:

Floor Area 572.6 ft²

Avg. Ceiling Height 13.1 ft

Building Weight 70.0 lb/ft²

1.1. OA Ventilation Requirements:

Space Usage RETAIL: Sales

OA Requirement 1 8.1 CFM/person

OA Requirement 2 0.12 CFM/ft²

Space Usage Defaults ASHRAE Std 62.1-2007

2. Internals:

2.1. Overhead Lighting:

Fixture Type Recessed (Unvented)

Wattage 1.86 W/ft²

Ballast Multiplier 1.08

Schedule LIGHTING

2.2. Task Lighting:

Wattage 0.00 W/ft²

Schedule None

2.3. Electrical Equipment:

Wattage 800.0 Watts

Schedule ELECTRICAL

2.4. People:

Occupancy 4.0 People

Activity Level User defined

Sensible 230.0 BTU/hr/person

Latent 104.1 BTU/hr/person

Schedule PEOPLE

2.5. Miscellaneous Loads:

Sensible 0 BTU/hr

Schedule None

Latent 0 BTU/hr

Schedule None

3. Walls, Windows, Doors:

Exp.	Wall Gross Area (ft²)	Window 1 Qty.	Window 2 Qty.	Door 1 Qty.
NNW	327.2	0	0	0

3.1. Construction Types for Exposure NNW

Wall Type Wall

4. Roofs, Skylights:

(No Roof or Skylight data).

5. Infiltration:

Design Cooling 0.00 CFM

Design Heating 0.00 CFM

Energy Analysis 0.00 CFM

Infiltration occurs only when the fan is off.

6. Floors:

Type Floor Above Conditioned Space

(No additional input required for this floor type).

7. Partitions:

(No partition data).

Hourly Analysis Program v4.61Page 1 of 2

G-02 RETAIL

1. General Details:

Floor Area 922.5 ft²
 Avg. Ceiling Height 13.1 ft
 Building Weight 70.0 lb/ft²

1.1. OA Ventilation Requirements:

Space Usage RETAIL: Sales
 OA Requirement 1 8.1 CFM/person
 OA Requirement 2 0.12 CFM/ft²
 Space Usage Defaults ASHRAE Std 62.1-2007

2. Internals:

2.1. Overhead Lighting:

Fixture Type Recessed (Unvented)
 Wattage 1.86 W/ft²
 Ballast Multiplier 1.08
 Schedule LIGHTING

2.2. Task Lighting:

Wattage 0.00 W/ft²
 Schedule None

2.3. Electrical Equipment:

Wattage 3500.0 Watts
 Schedule ELECRICAL

3. Walls, Windows, Doors:

(No Wall, Window, Door data).

4. Roofs, Skylights:

(No Roof or Skylight data).

5. Infiltration:

Design Cooling 0.00 CFM
 Design Heating 0.00 CFM
 Energy Analysis 0.00 CFM
 Infiltration occurs only when the fan is off.

6. Floors:

Type Floor Above Conditioned Space
 (No additional input required for this floor type).

7. Partitions:

(No partition data).

2.4. People:

Occupancy 12.0 People
 Activity Level User defined
 Sensible 220.0 BTU/hr/person
 Latent 104.1 BTU/hr/person
 Schedule PEOPLE

2.5. Miscellaneous Loads:

Sensible 0 BTU/hr
 Schedule None
 Latent 0 BTU/hr
 Schedule None



Air System Sizing Summary for FCU-11 CLARKS

Project Name: Clarks
Prepared by: Lenovelle

07/25/2017
08:15AM

Air System Information

Air System Name **FCU-11 CLARKS**
Equipment Class **CW AHU**
Air System Type **SZCAV**

Number of zones **1**
Floor Area **1495.1** ft²
Location **Kuwait City, Kuwait**

Sizing Calculation Information

Zone and Space Sizing Method:

Zone CFM **Peak zone sensible load**
Space CFM **Coincident space loads**

Calculation Months **Jan to Dec**
Sizing Data **User-Modified**

Central Cooling Coil Sizing Data

Total coil load **3.5** Tons
Total coil load **42.4** MBH
Sensible coil load **34.2** MBH
Coil CFM at Jul 1900 **1700** CFM
Max block CFM **1700** CFM
Sum of peak zone CFM **1700** CFM
Sensible heat ratio **0.806**
ft²/Ton **422.7**
BTU/(hr-ft²) **28.4**
Water flow @ 10.0 °F rise **8.49** gpm

Load occurs at **Jul 1900**
OA DB / WB **112.8 / 79.7** °F
Entering DB / WB **75.2 / 65.1** °F
Leaving DB / WB **57.9 / 56.8** °F
Coil ADP **55.8** °F
Bypass Factor **0.100**
Resulting RH **52** %
Design supply temp. **59.9** °F
Zone T-stat Check **0 of 1** OK
Max zone temperature deviation **0.0** °F

Central Heating Coil Sizing Data

Max coil load **8.6** MBH
Coil CFM at Des Htg **1700** CFM
Max coil CFM **1700** CFM
Water flow @ 20.0 °F drop **0.86** gpm

Load occurs at **Des Htg**
BTU/(hr-ft²) **5.7**
Ent. DB / Lvg DB **66.2 / 70.9** °F

Precool Coil Sizing Data

Total coil load **1.1** Tons
Total coil load **13.6** MBH
Sensible coil load **13.6** MBH
Coil CFM at Jul 1500 **300** CFM
Max coil CFM **300** CFM
Sensible heat ratio **1.000**
Water flow @ 10.0 °F rise **2.72** gpm

Load occurs at **Jul 1500**
OA DB / WB **117.3 / 80.8** °F
Entering DB / WB **117.3 / 80.8** °F
Leaving DB / WB **75.0 / 69.6** °F
Bypass Factor **0.100**

Supply Fan Sizing Data

Actual max CFM **1700** CFM
Standard CFM **1689** CFM
Actual max CFM/ft² **1.14** CFM/ft²

Fan motor BHP **1.26** BHP
Fan motor kW **1.00** kW

Outdoor Ventilation Air Data

Design airflow CFM **300** CFM
CFM/ft² **0.20** CFM/ft²

CFM/person **18.75** CFM/person



Zone Sizing Summary for FCU-11 CLARKS

Project Name: Clarks
Prepared by: Lenovelle

07/25/2017
08:15AM

Air System Information

Air System Name FCU-11 CLARKS
Equipment Class CW AHU
Air System Type SZCAV

Number of zones 1
Floor Area 1495.1 ft²
Location Kuwait City, Kuwait

Sizing Calculation Information

Zone and Space Sizing Method:

Zone CFM Peak zone sensible load
Space CFM Coincident space loads

Calculation Months Jan to Dec
Sizing Data User-Modified

Zone Sizing Data

Zone Name	Maximum Cooling Sensible (MBH)	Design Air Flow (CFM)	Minimum Air Flow (CFM)	Time of Peak Load	Maximum Heating Load (MBH)	Zone Floor Area (ft ²)	Zone CFM/ft ²
FCU-11 CLARKS	28.0	1700	1700	Jul 1900	1.0	1495.1	1.14

Zone Terminal Sizing Data

No Zone Terminal Sizing Data required for this system.

Space Loads and Airflows

Zone Name / Space Name	Mult.	Cooling Sensible (MBH)	Time of Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (ft ²)	Space CFM/ft ²
FCU-11 CLARKS							
G-01 RETAIL	1	8.4	Jul 1900	507	1.0	572.6	0.89
G-02 RETAIL	1	19.7	Jul 1900	1193	0.0	922.5	1.29



Air System Design Load Summary for FCU-11 CLARKS

Project Name: Clarks
Prepared by: Lenovelle

07/25/2017
08:15AM

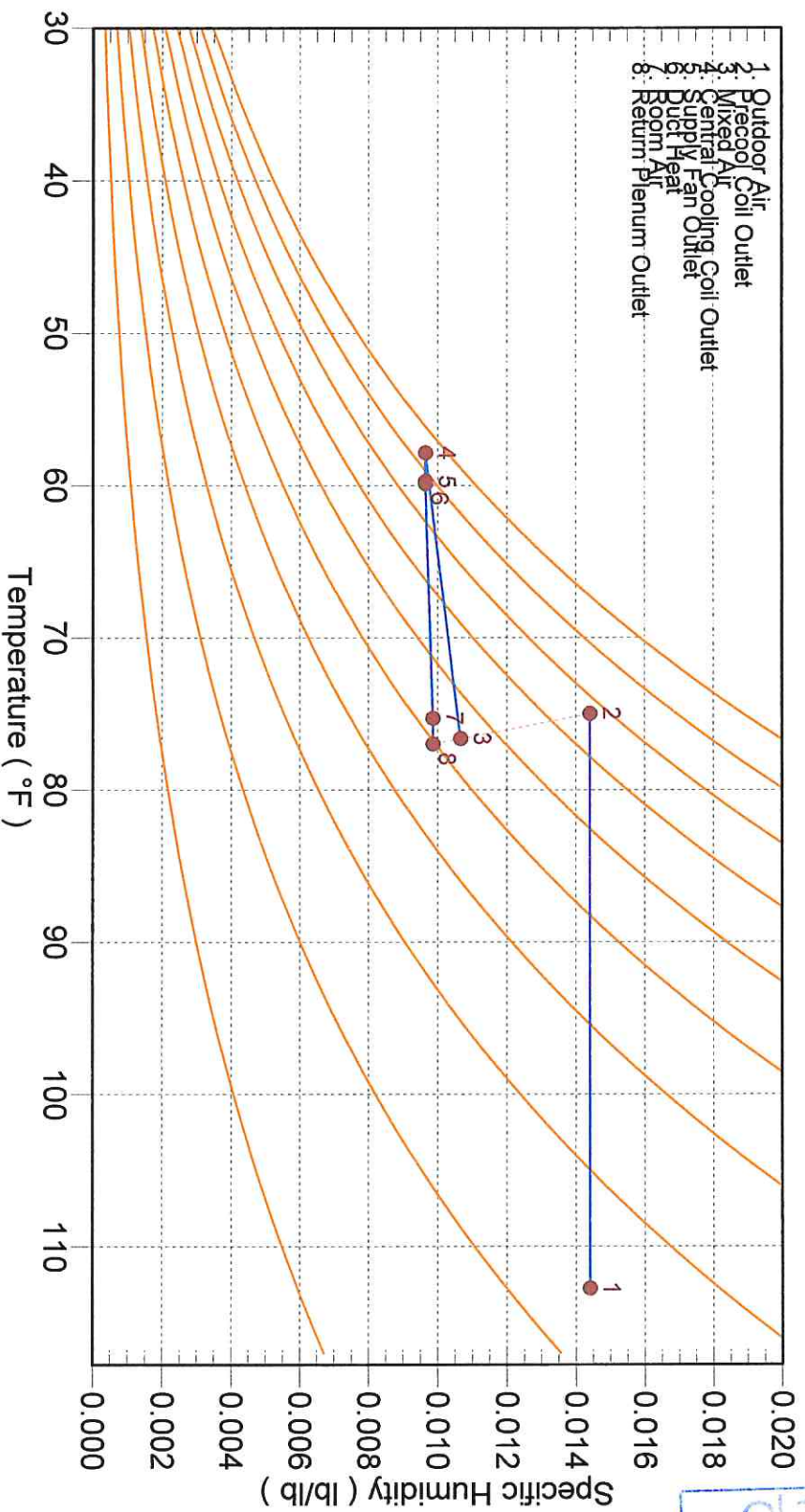
ZONE LOADS	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jul 1900			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 112.8 °F / 79.7 °F			HEATING OA DB / WB 40.1 °F / 36.6 °F		
	Details	Sensible (BTU/hr)	Latent (BTU/hr)	Details	Sensible (BTU/hr)	Latent (BTU/hr)
Window & Skylight Solar Loads	0 ft²	0	-	0 ft²	-	-
Wall Transmission	327 ft²	1626	-	327 ft²	1023	-
Roof Transmission	0 ft²	0	-	0 ft²	0	-
Window Transmission	0 ft²	0	-	0 ft²	0	-
Skylight Transmission	0 ft²	0	-	0 ft²	0	-
Door Loads	0 ft²	0	-	0 ft²	0	-
Floor Transmission	0 ft²	0	-	0 ft²	0	-
Partitions	0 ft²	0	-	0 ft²	0	-
Ceiling	0 ft²	0	-	0 ft²	0	-
Overhead Lighting	3000 W	6385	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	4300 W	13932	-	0	0	-
People	16	3065	1665	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	12% / 7%	3001	117	0%	0	0
>> Total Zone Loads	-	28008	1782	-	1023	0
Zone Conditioning	-	28103	1782	-	1771	0
Plenum Wall Load	0%	0	-	0	0	-
Plenum Roof Load	70%	0	-	0	0	-
Plenum Lighting Load	30%	3071	-	0	0	-
Return Fan Load	1700 CFM	0	-	1700 CFM	0	-
Ventilation Load	300 CFM	11520	6434	300 CFM	10188	0
Supply Fan Load	1700 CFM	3412	-	1700 CFM	-3412	-
Space Fan Coil Fans	-	0	-	-	0	-
Duct Heat Gain / Loss	1%	280	-	1%	10	-
>> Total System Loads	-	46386	8215	-	8558	0
Central Cooling Coil	-	34226	8217	-	0	0
Central Heating Coil	-	0	-	-	8558	-
Precool Coil	-	12161	0	-	0	0
>> Total Conditioning	-	46386	8217	-	8558	0
Key:	Positive values are clg loads Negative values are htg loads			Positive values are htg loads Negative values are clg loads		



Psychrometric Analysis for FCU-11 CLARKS

07/25/2017
08:15AM

Location: Kuwait City, Kuwait
Altitude: 180.0 ft.
Data for: July DESIGN COOLING DAY, 1900



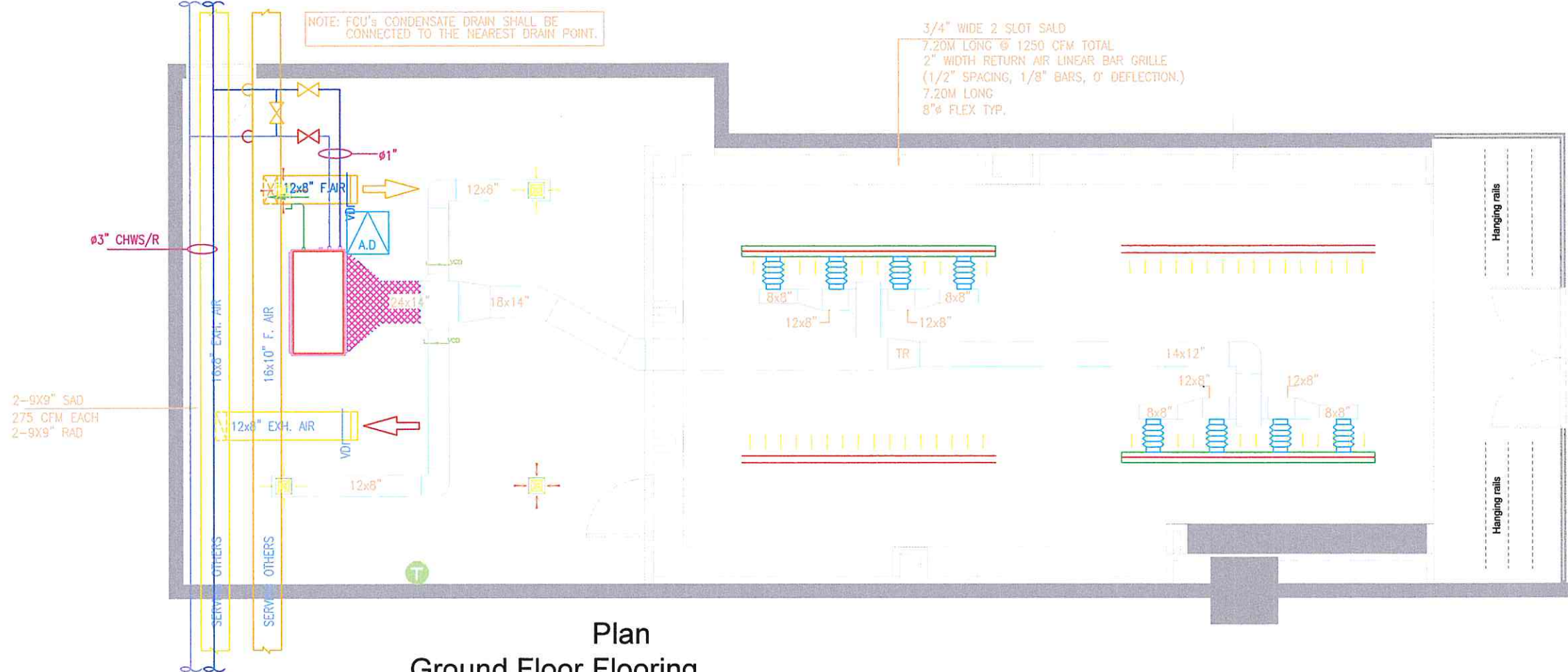
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DUCTED FAN COIL UNIT SCHEDULE - GROUND FLOOR (HV-104-00)																					
(INVESTER'S SCOPE OF WORK)																					
MARK	SUPPLY	COOLING CAPACITY		TOTAL (TR)	ENT. AIR , °F		LEV. AIR , °F		CHILLED WATER					E.S.P.	T.S.P.	FILTER	ELECTRICAL DATA				REMARKS
	AIR	SENSIBLE	TOTAL		D.B.	W.B.	D.B.	W.B.	ENT °F	LVG °F	GPM	MAX. PD FT. H ₂ O	COIL ROWS	IWG	IWG	THK. / TYPE	WATTS	VOLTS	PH	HZ	
	CFM	(BTUH)	(BTUH)																		
D/FCU-11-GR-120	1800	35640	42687	3.6	75.0	63.0	57.0	56.0	46.0	60.0	6.1	10	4	0.3	1.0	2" FLAT	550	240	1	50	* SEE NOTE (1)

SYMBOL LEGEND:-

- DUCTED FAN COIL UNIT
- AIR HANDLING UNIT/FRESH AIR HANDLING UNIT
- ECOLOGY UNIT
- CHILLED WATER SUPPLY PIPE
- CHILLED WATER RETURN PIPE
- GATE VALVE
- PIPE CAP OR FLANGED END
- SUPPLY AIR DUCT
- RETURN/EXHAUST/SMOKE EXHAUST AIR DUCT
- FRESH AIR/SMOKE FRESH AIR DUCT
- DUCT WORK ACOUSTIC LINING
- FD FIRE DAMPER
- VD VOLUME DAMPER
- M MOTORIZED DAMPER
- FIRE RATED BULKHEAD ENCLOSURE BY OWNER
- ATRC SLAB WITH GYPSUM BOARD ENCLOSURE BY OWNER (PAINT BY INVESTOR)

NOTE: SHIPMENT DESIGN IS BY INVESTOR AS/INVESTOR MANUAL



Plan
Ground Floor Flooring
Electrics

gla
management
GLA Property Management Co. (W.L.L.)

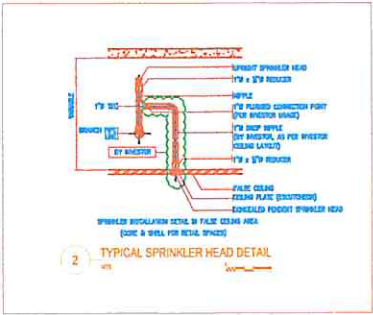
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NO.	DATE	REVISIONS	APPROVED

PROJECT	CLARKE ALKOUT MALL
DATE	14/08/2017
DESIGNER	SAUDIA GROUP
PROJECT NO.	100-000000
DATE	14/08/2017
DESIGNER	SAUDIA GROUP
PROJECT NO.	100-000000
DATE	14/08/2017
DESIGNER	SAUDIA GROUP
PROJECT NO.	100-000000



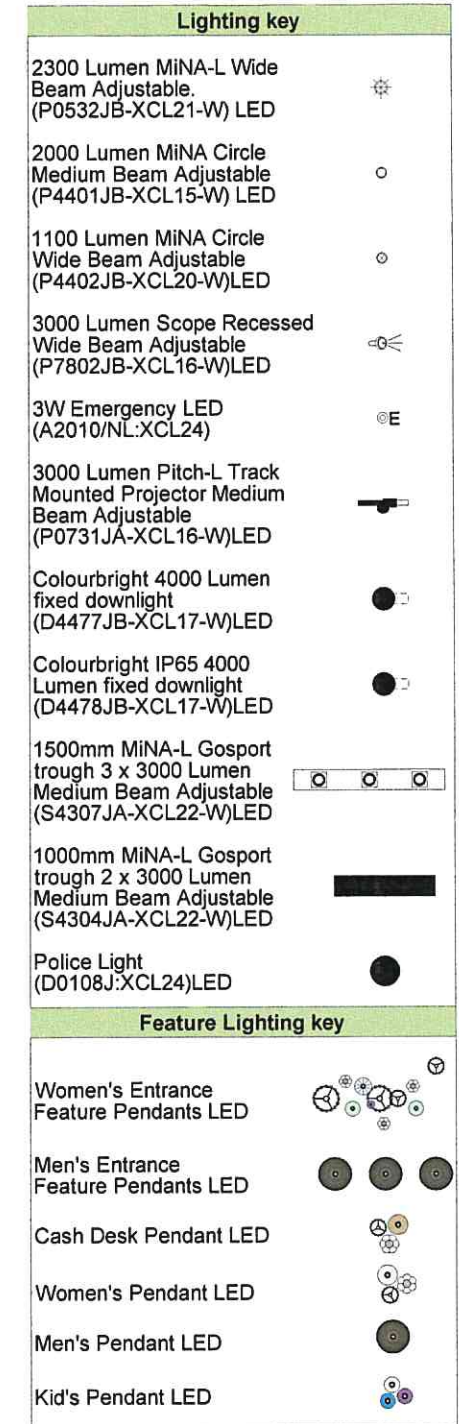
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GLA Property Management Co. (NLL)

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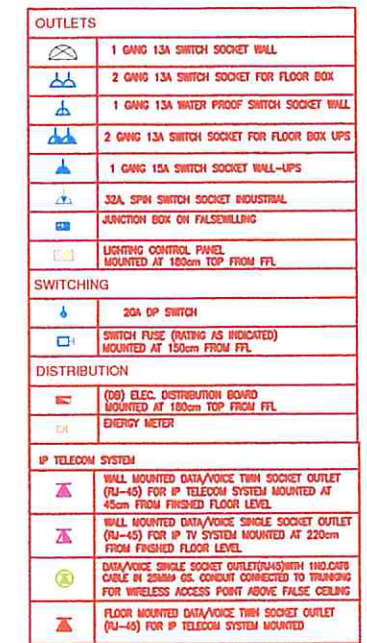
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GLA Property Management Co. (M.L.L.)

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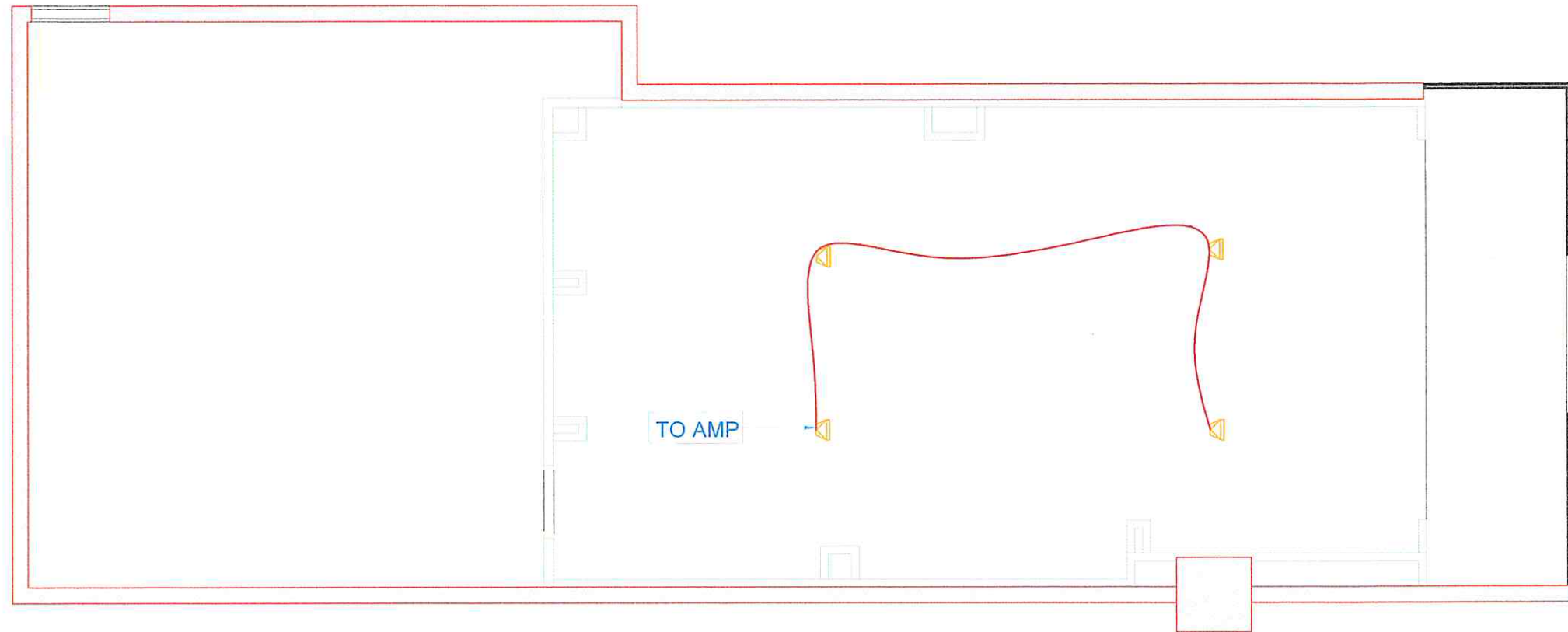


DATE	DATE	DATE
1/2/2017	28/09/2017	20/09/2017

QCT PD No.	REV. NO.
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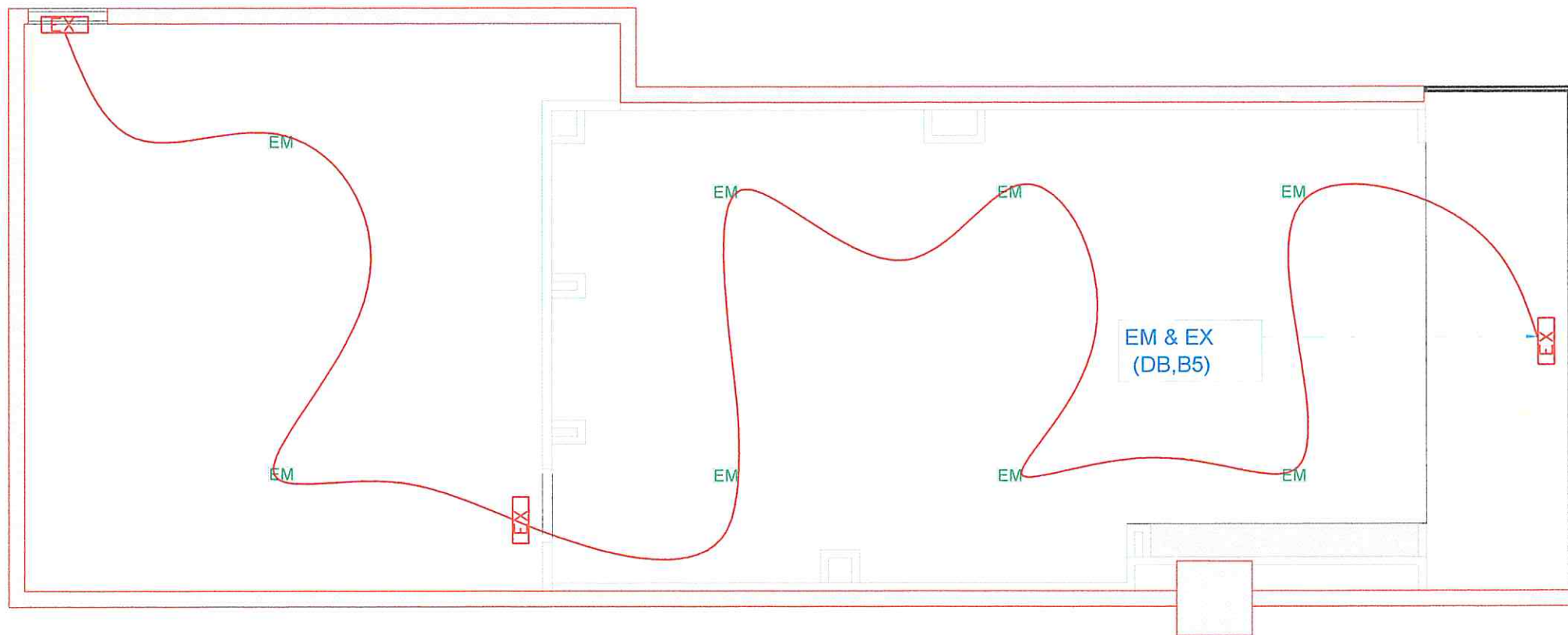
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management
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2 4 SEP 2017

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<p>PROJECT: CLAY'S AL KOUT MALL</p>			
<p>REMARKS: EM & EX LAYOUT</p>			
DATE: 12.02.2017	DRAWN BY: 20.02.2017	SHEET NO:	
PROJECT NO: 20000000000000000000		REV. NO: 01	