



RETAIL DESIGN & DELIVERY SUBMITTAL & TRANSMITTAL FORM											
MALL / PROPERTY NAME:		AL KOUTH MALL		BRAND NAME:		CLARK'S		UNIT NUMBER:		G-07	
SUBMITTAL / TRANSMITTAL NO.:				NAME of Investor / Authorized Representative		CONTACT No. of Investor / Authorized		SUBMITTAL DATE:		24-Sep-17	
INVESTOR and/or AUTHORIZED REPRESENTATIVE				JASHANMAL		90022060		E-mail Address of Investor / Authorized Representative		rafat@jashanmal.net	
CONTRACTOR'S AUTHORIZED REPRESENTATIVE				COMPANY NAME		NAME of Contractor's Project Manager		CONTACT No.		E-mail Address	
				Lanouvelle Interiors		Eng.Dory Hanna		99825584		dory@lanouvelleint.com	
ONE (1) SUBMITTAL / TRANSMITTAL for each SUBMITTAL TYPE											
ITEM NO.	DRAWING TITLE / DESCRIPTION	SUBMITTAL TYPE	DRAWING NO.	REVISION NO.	NO. OF COPIES	CODE			COMMENTS / REMARKS		
						A	B	X			
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										

Time:

Received By:  **RD&D Coordinator**


Name / Signature / Date:

Time:

Received By:  **Sr. MEP / MEP Engineer**

Name / Signature / Date:


Time:

Received By:  **Sr. Manager and/or General Manager**

Name / Signature / Date:

Investor / Contractor

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	
LIGHTING	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	
	2	R	16	2.5		Entrance (P4402 + D4477)	4x20 + 2x20	120			
		Y	16	2.5		L4 (P0532 + P4401)	5x25 + 1x15		140		
		B	16	2.5		Display (S4307JA)	2x75			150	
	3	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	
	4	R	16	2.5		Furniture Display D -3	3x100	300			
Y		16	2.5	Furniture Display D -4		3x100		300			
B		16	2.5	Furniture Display D -5		3x100			300		
5	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		
6	R	16	2.5	L - Store		6X50	300				
	Y	16		Spare							
	B	16		Spare							
POWER	7	R	20	4		SW. Socket	Cashier - 1	2x200	400		
		Y	20	4		SW. Socket	Cashier - 2	2x200		400	
		B	20	4		SW. Socket	Store	2x200			400
	8	R	20	4		SW. Socket	Utility - 1	2x200	400		
		Y	20	4		SW. Socket	Utility - 2	2x200		400	
		B	20	4		SW. Socket	Utility Store	3x200			600
	9	R	20	4		SW. Socket	P - IT	2x200	400		
		Y	20	4		SW. Socket	AC	550		550	
		B	20	4		SW. Socket	P - CCTV	2x200			400
		R	20				Spare				
		Y	20			Spare					
		B	20			Spare				70	
										2510	
TOTAL LOAD = 7.795 KW						7795		2685	2600		
						TOTAL LOAD = 7.795 KW					


 24 SEP 2017
 Time:
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 Retail Design & Delivery Dept.

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 (ft²)	Zone CFM/ft²
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 (ft²)	Space CFM/ft²
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

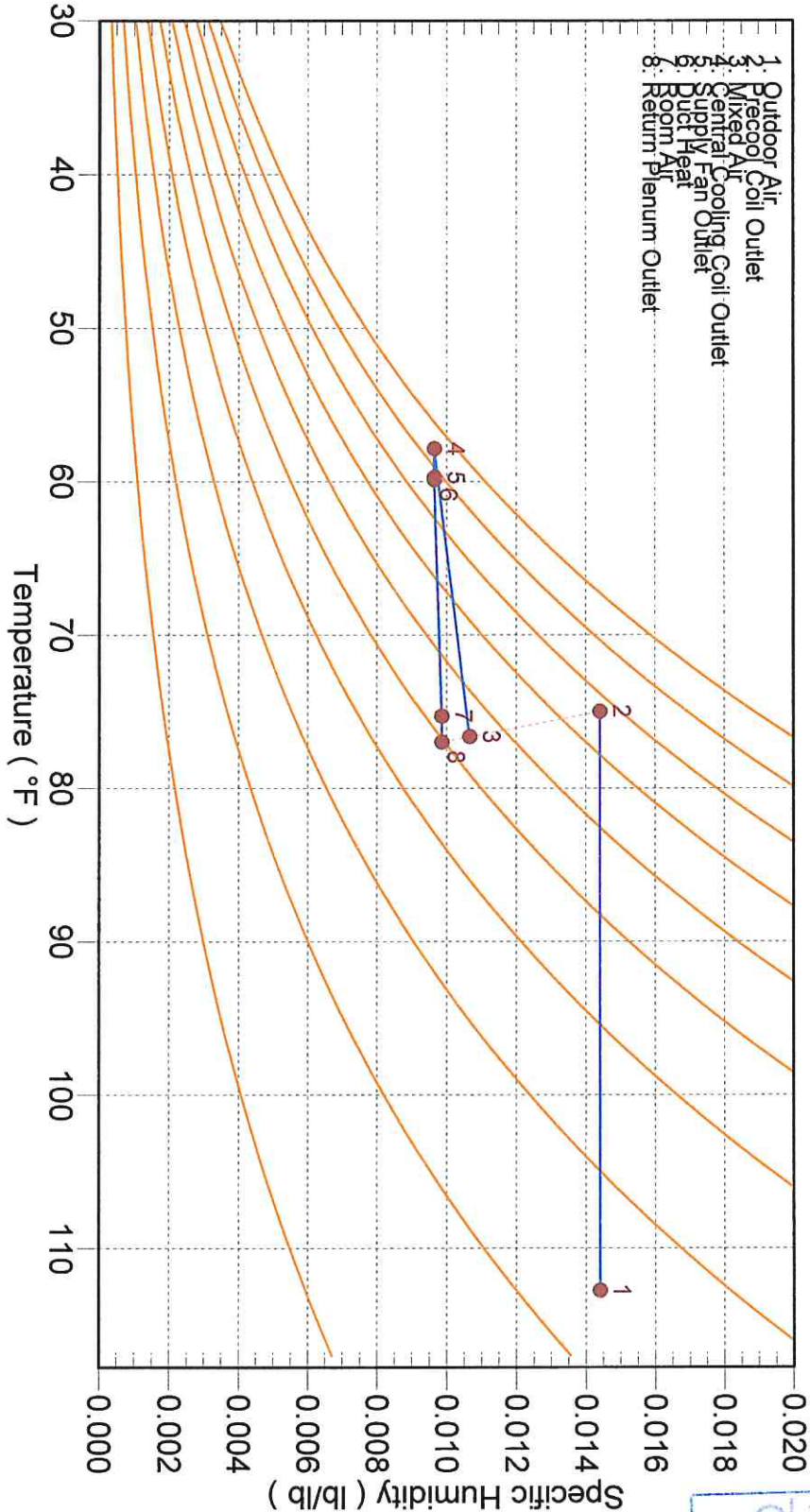
ZONE LOADS	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jul 1900			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 112.8 °F / 79.7 °F			HEATING OA DB / WB 40.1 °F / 36.6 °F		
	Details	Sensible (BTU/hr)	Latent (BTU/hr)	Details	Sensible (BTU/hr)	Latent (BTU/hr)
Window & Skylight Solar Loads	0 ft²	0	-	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

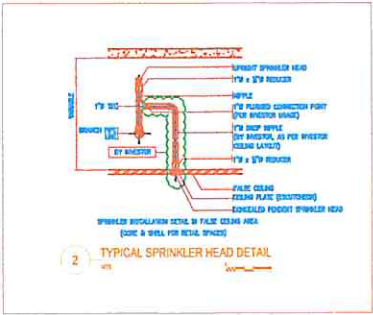
Location: Kuwait City, Kuwait
Altitude: 180.0 ft.
Data for: July DESIGN COOLING DAY, 1900



[illegible]

HVAC 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
	FIRE DAMPER
	VOLUME DAMPER
	MOTORIZED DAMPER
	FIRE RATED BULLHEAD ENCLOSURE BY OWNER
	ATC SLAB WITH GYPSUM BOARD ENCLOSURE BY OWNER (PAINT BY INVESTOR)
NOTE: SHOFFRONT DESIGN IS BY INVESTOR AS/INVESTOR MAIN	

[illegible]



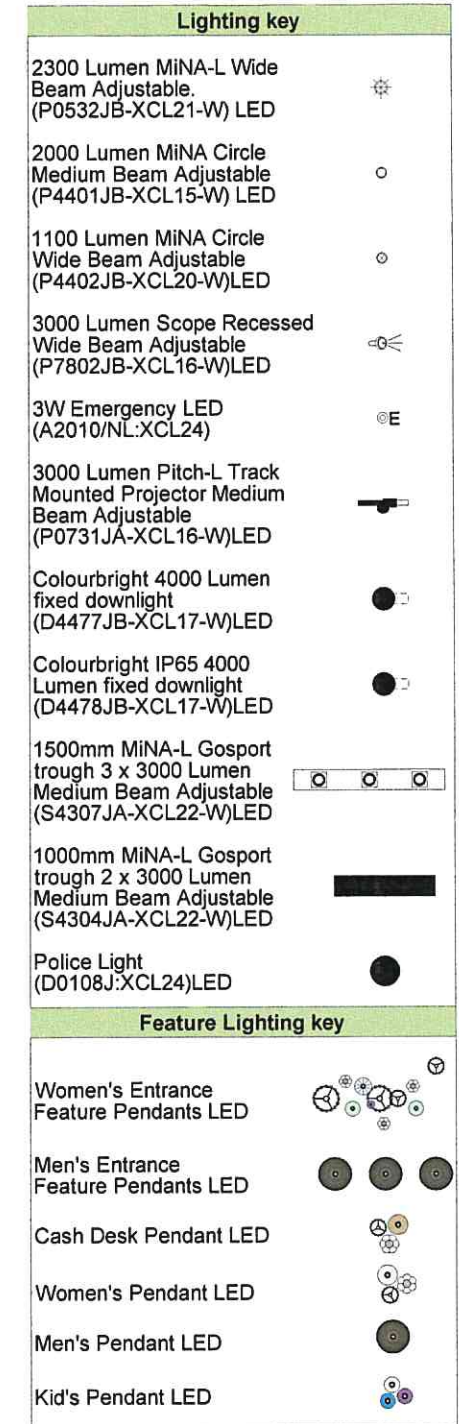
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management
GLA Property Management Co. (NLL)

24 SEP 2017

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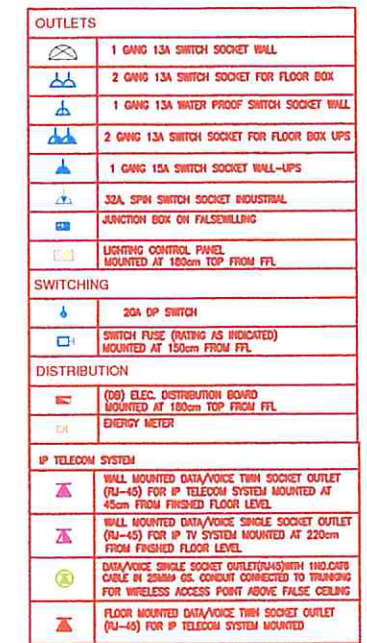
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management
GLA Property Management Co. (M.L.L.)

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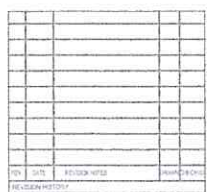
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management
GLA Property Management Co. (WLL)
24 SEP 2017
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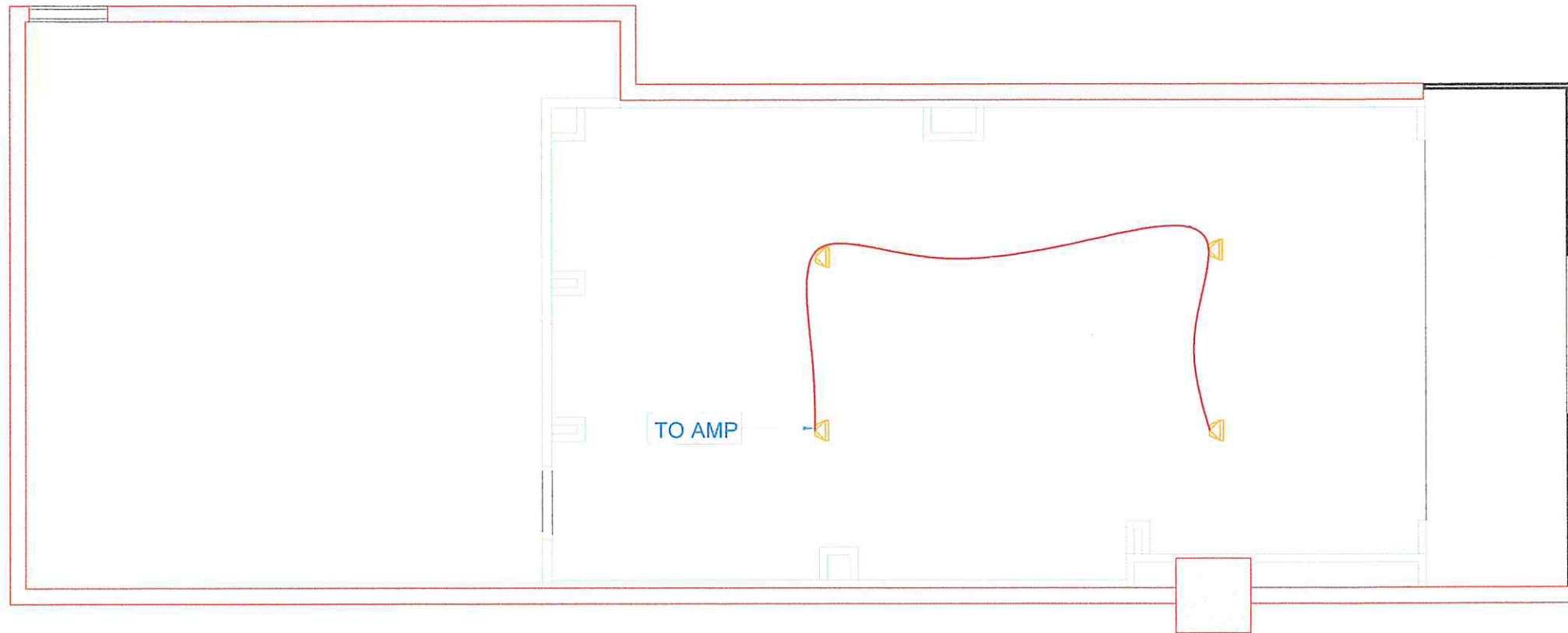


DATE	DATE	DATE
10/20/13	10/20/13	10/20/13

QCT PD No.	REV. NO.
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SM-01	PG
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