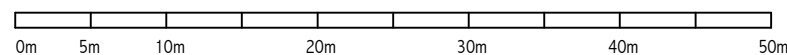


SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	CEILING MOUNTED AIR-CONDITIONING INDOOR UNIT		VVR MULTI ZONE CONTROLLER
	AIR EXHAUST SQUARE CEILING DIFFUSER		VVR ZONE CONTROLLER
	RIGID DUCT		INTERNAL AIR EXHAUST GRILLE
	INSULATED GAS PIPE		AIR INTAKE GRILLE
	INSULATED LIQUID PIPE		ABOVE TO BELOW
	PRE-INSULATED FLEXIBLE DUCT		WALL MOUNTED AIR-CONDITIONING UNIT
	HEAT RECLAIM VENTILATION UNIT		WALL MOUNTED EXHAUST GRILL
	CONDENSER UNIT		ONLINE EXHAUST FAN
	EXTERNAL AIR EXHAUST GRILLE		CEILING FAN

GROUND FLOOR AIR CONDITION AND VENTILATION LAYOUT

SCALE 1:200



NOTE (AC CONTROL SYSTEM)

- ALL AC ZONES ARE CONTROLLED BY MULTI ZONE CONTROLLER PLACED AT MANAGEMENT & MAINTENANCE ROOM
- EACH AC ZONE IS CONTROLLED BY INDIVIDUAL ZONE CONTROLLER PLACED AT MANAGEMENT AND MAINTENANCE ROOM
- EACH INDOOR UNIT IS CONTROLLED BY INDIVIDUAL UNIT CONTROLLER.

GENERAL NOTE

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED. ALL DIMENSIONS ARE TO BE VERIFIED ON SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CO-ORDINATION OF ALL SERVICES.
- ALL LIQUID AND GAS PIPE SHOULD BE COPPER PIPES.
- ALL LIQUID AND GAS PIPES SHALL HAVE A MINIMUM OF 50MM THICK CLOSED CELL STRUCTURED INSULATION WITH ALUMINIUM EXTERNAL VAPOUR BARRIER. DRAIN PIPE SHALL HAVE MINIMUM OF 25MM THICK INSULATION.
- ALL AC REFRIGERANT USED SHALL BE R410A.
- INDOOR UNIT AND OUTDOOR UNIT MODELS, SIZES AND FLOW RATE ARE BASED ON DAIKIN VRV IV AIRCONDITIONING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM THE CONSULTANT FOR ANY CHANGES OF BRANDS TO BE USED AND DIMENSIONS.
- ALL EXTERNAL LIQUID AND GAS PIPES SHALL BE PROVIDED WITH PVC CLADDING.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL BEFORE COMMENCEMENT OF WORK AT SITE.
- AS-BUILT DRAWINGS SHALL BE SUBMITTED FOR APPROVAL AFTER THE COMPLETION OF WORK.
- LOCATION OF EXHAUST GRILL TO BE COORDINATED WITH LIGHT FITTINGS AND OTHER SERVICES.
- THE LEVEL OF DUCTS TO BE COORDINATED WITH OTHER SERVICES ABOVE CEILING IN ALL AREAS AND OTHER STRATEGIC LOCATIONS.
- PROPER ACCESS FOR EASY MAINTENANCE TO BE PROVIDED AS RECOMMENDED BY THE MANUFACTURER OF A/C EQUIPMENT.
- ALL TOILETS TO BE NEGATIVE PRESSURE AREA.
- TOILET EXHAUST FAN CONTROL SHALL BE CONNECTED TO LIGHT SWITCH WITH A DELAY FAN SWITCH OFF MECHANISM
- MAINTAIN AT LEAST 1.2 M. CLEARANCE BETWEEN ALL MECHANICAL EQUIPMENT ON ROOF AND THE BUILDING WALLS.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL BEFORE COMMENCEMENT OF WORK AT SITE.
- AS-BUILT DRAWINGS SHALL BE SUBMITTED FOR APPROVAL AFTER THE COMPLETION OF WORK.
- ALL SUPPLY/EXHAUST/FRESH AIR DUCTING BOARD SHALL BE AS SPECIFIED.
- ALL DUCT WORK AS PER DW144 STANDARD.
- ALL THE PRE-INSULATED GAS AND LIQUID PIPE LINE SHALL RUN INSIDE A CABLE TRAY.
- PRE-INSULATED ALUMINIUM COVER GAS AND LIQUID LINE SHALL BE USED.
- ALL OUTDOOR UNIT SHALL BE MOUNTED ON RUBBER MOUNTS.
- ALL VRV OUTDOOR UNITS FINIS SHALL BE TREATED WITH ANTI-CORROSIVE TREATMENT.

Revision	Date	Drawn By	Checked By
R02	26.01.2022	SHAMMA	-
R03	29.01.2022	SHAMMA	-

Client :
DEPARTMENT OF JUDICIAL ADMINISTRATION

Project Title :

ADDU COURT COMPLEX

Building Name :
ADDU COURT COMPLEX

Drawing Title :
GROUND FLOOR AIR CONDITION AND VENTILATION LAYOUT

Scale :

1:200

Discipline :

MEP

Stage :

SUBMISSION

Original Drawn By :
HANS

Date :
SEPTEMBER 2021

Checked By :
THORIQ

Design By :
AJMAL

Drawing Number :
33-101

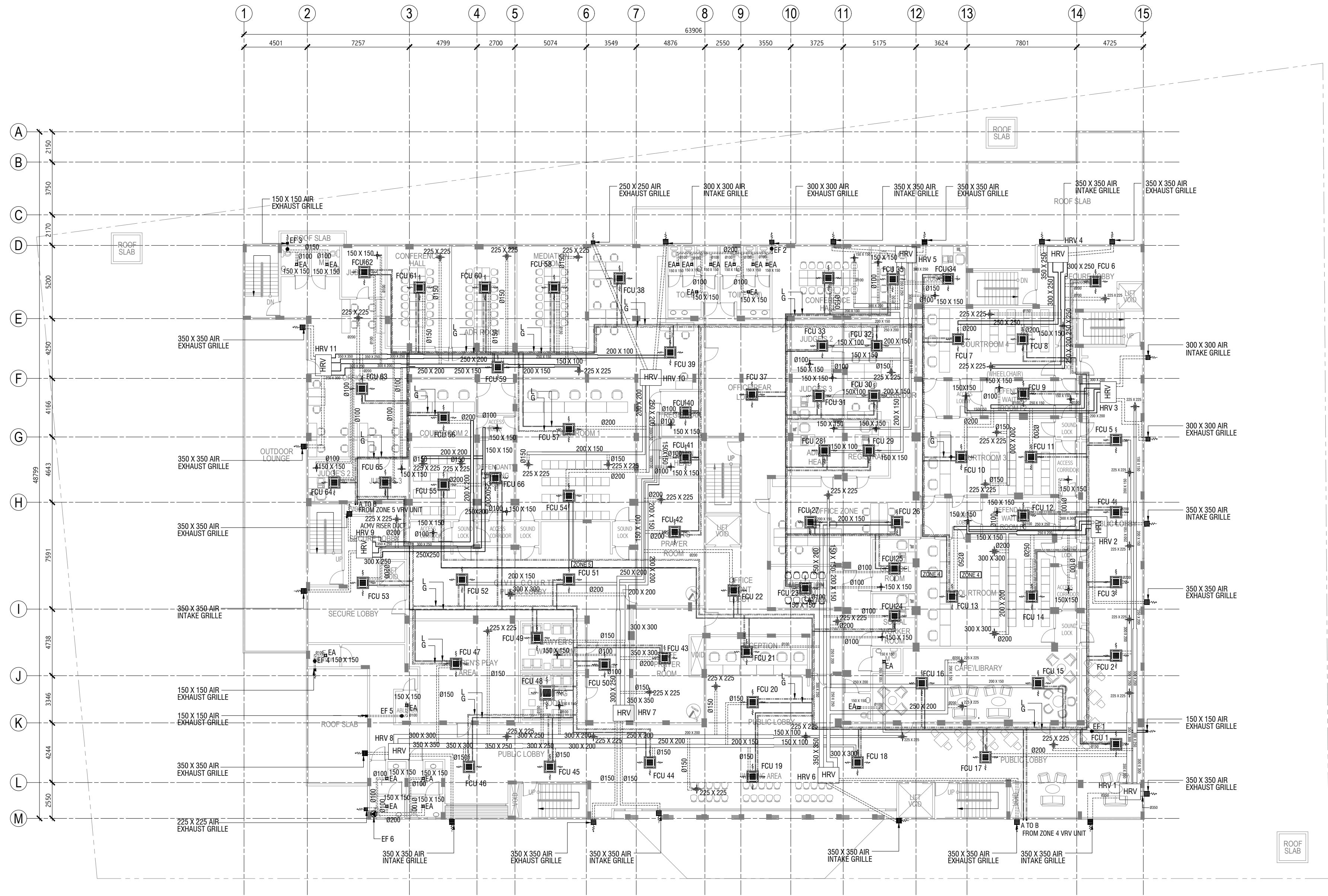
Revision Number :
R03

File Name :
H9-33-101R03.dwg

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LEGEND

SYMBOL	DESCRIPTION
	CEILING MOUNTED AIR-CONDITIONING INDOOR UNIT
	AIR EXHAUST SQUARE CEILING DIFFUSER
	RIGID DUCT
	INSULATED GAS PIPE
	INSULATED LIQUID PIPE
	PRE-INSULATED FLEXIBLE DUCT
	HEAT RECLAIM VENTILATION UNIT
	CONDENSER UNIT
	EXTERNAL AIR EXHAUST GRILLE

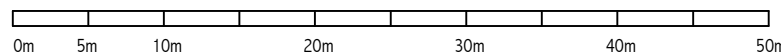
	INTERNAL AIR EXHAUST GRILLE
	AIR INTAKE GRILLE
	ABOVE TO BELOW
	WALL MOUNTED AIR-CONDITIONING UNIT
	WALL MOUNTED EXHAUST GRILL
	ONLINE EXHAUST FAN
	CEILING FAN

NOTE:

=GAS PIPE LINE DIAMETER=60MM Ø
 =LIQUID PIPE LINE DIAMETER=40MM Ø
 =AC INDOOR UNIT: H X W X D (MM): 256 X 840 X 840
 =HRV UNIT: H X W X D (MM): 710 X 1498 X 1140

FIRST FLOOR AIR CONDITION AND VENTILATION LAYOUT

SCALE 1:200



GENERAL NOTE

- 1- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED. ALL DIMENSIONS ARE TO BE VERIFIED ON SITE.
- 2- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CO-ORDINATION OF ALL SERVICES.
- 3- ALL LIQUID AND GAS PIPE SHOULD BE COPPER PIPES.
- 4- ALL LIQUID AND GAS PIPES SHALL HAVE A MINIMUM OF 50MM THICK CLOSED CELL STRUCTURED INSULATION WITH ALUMINIUM EXTERNAL VAPOUR BARRIER. DRAIN PIPE SHALL HAVE MINIMUM OF 25MM THICK INSULATION.
- 5- ALL AC REFRIGERANT USED SHALL BE R410A.
- 6- INDOOR UNIT AND OUTDOOR UNIT MODELS, SIZES AND FLOW RATE ARE BASED ON DAIKIN VRV IV AIRCONDITIONING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM THE CONSULTANT FOR ANY CHANGES OF BRANDS TO BE USED AND DIMENSIONS.
- 7- ALL EXTERNAL LIQUID AND GAS PIPES SHALL BE PROVIDED WITH PVC CLADDING.
- 8- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL BEFORE COMMENCEMENT OF WORK AT SITE.
- 9- AS-BUILT DRAWINGS SHALL BE SUBMITTED FOR APPROVAL AFTER THE COMPLETION OF WORK.
- 10- LOCATION OF EXHAUST GRILL TO BE COORDINATED WITH LIGHT FITTINGS AND OTHER SERVICES.
- 11- THE LEVEL OF DUCTS TO BE COORDINATED WITH OTHER SERVICES ABOVE CEILING IN ALL AREAS AND OTHER STRATEGIC LOCATIONS.
- 12- PROPER ACCESS FOR EASY MAINTENANCE TO BE PROVIDED AS RECOMMENDED BY THE MANUFACTURER OF A/C EQUIPMENT.
- 13- ALL TOILETS TO BE NEGATIVE PRESSURE AREA.
- 14- TOILET EXHAUST FAN CONTROL SHALL BE CONNECTED TO LIGHT SWITCH WITH A DELAY FAN SWITCH OFF MECHANISM
- 15- MAINTAIN AT LEAST 1.2 M. CLEARANCE BETWEEN ALL MECHANICAL EQUIPMENT ON ROOF AND THE BUILDING WALLS.
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- 18- ALL SUPPLY/EXHAUST/FRESH AIR DUCTING BOARD SHALL BE AS SPECIFIED.
- 19- ALL DUCT WORK AS PER DW144 STANDARD.
- 20- ALL THE PRE-INSULATED GAS AND LIQUID PIPE LINE SHALL RUN INSIDE A CABLE TRAY.
- 21- PRE-INSULATED ALUMINIUM COVER GAS AND LIQUID LINE SHALL BE USED.
- 22- ALL OUTDOOR UNIT SHALL BE MOUNTED ON RUBBER MOUNTS.
- 23- ALL VRV OUTDOOR UNITS FINIS SHALL BE TREATED WITH ANTI-CORROSIVE TREATMENT.

Revision	Date	Drawn By	Checked By
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Client :
DEPARTMENT OF JUDICIAL ADMINISTRATION

Project Title :

ADDU COURT COMPLEX

Building Name :
ADDU COURT COMPLEX

Drawing Title :

FIRST FLOOR AIR CONDITION AND VENTILATION LAYOUT

Scale :
1:200

Discipline :
MEP

Stage :
SUBMISSION

Original Drawn By :
HANS

Checked By :
THORIQ

Date :
SEPTEMBER 2021

Design By :
AJMAL

Drawing Number :
33-102

Revision Number :
R01

File Name :
H9-33-102R01.dwg

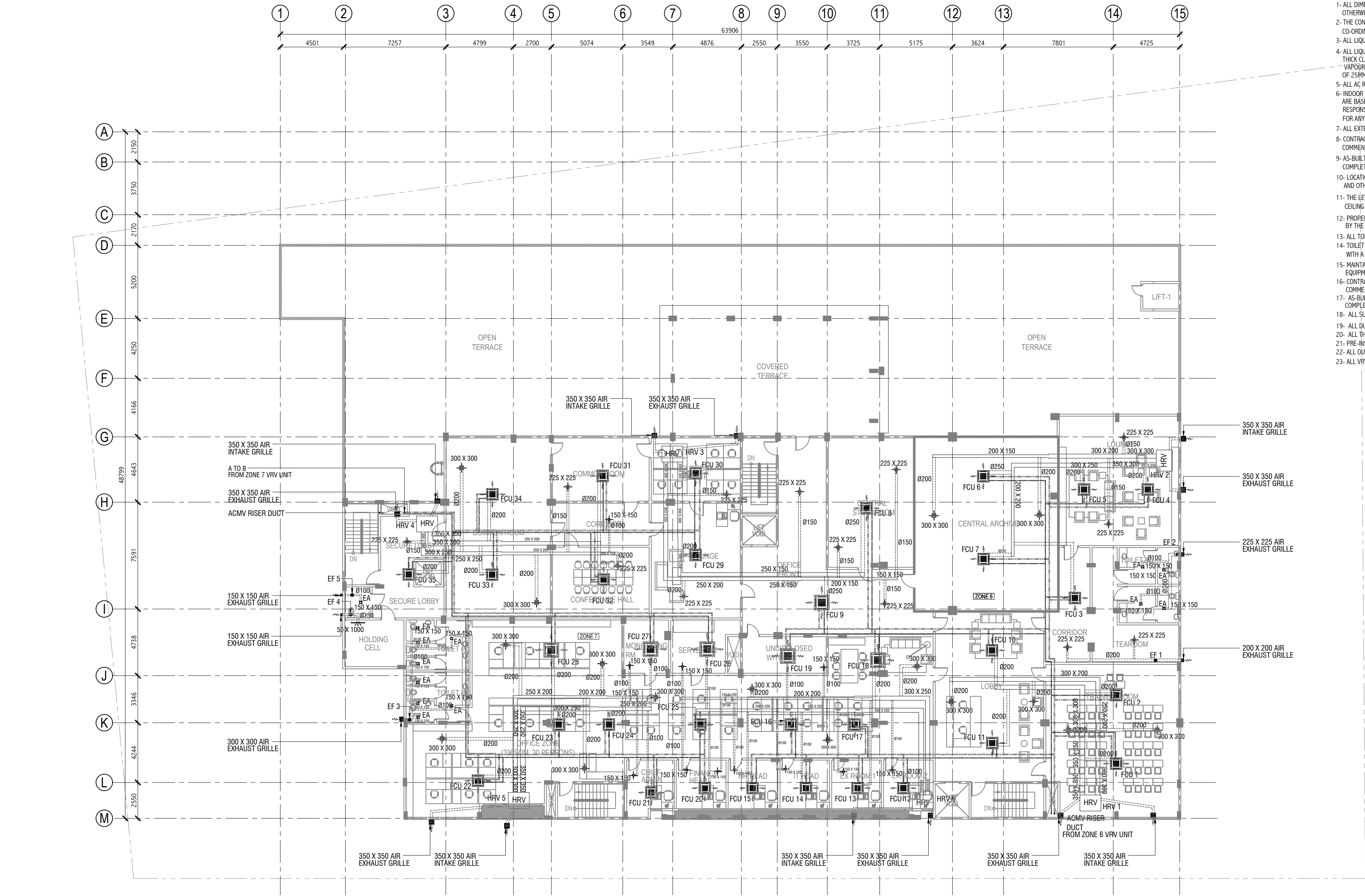
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Webpage: gedor.com.mv

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- 18- ALL SUPPLY/EXHAUST/FRESH AIR DUCTING BOARD SHALL BE AS SPECIFIED.
- 19- ALL DUCT WORK AS PER DW1144 STANDARD.
- 20- ALL THE PRE-INSULATED GAS AND LIQUID PIPE LINE SHALL RUN INSIDE A CABLE TRAY.
- 21- PRE-INSULATED ALUMINIUM COVER GAS AND LIQUID LINE SHALL BE USED.
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- 23- ALL VRV OUTDOOR UNITS FINS SHALL BE TREATED WITH ANTI-CORROSIVE TREATMENT.



LEGEND

SYMBOL	DESCRIPTION
	CEILING MOUNTED AIR-CONDITIONING INDOOR UNIT
	AIR EXHAUST SQUARE CEILING DIFFUSER
	RIGID DUCT
	INSULATED GAS PIPE
	INSULATED LIQUID PIPE
	PRE-INSULATED FLEXIBLE DUCT
	HEAT RECLAIM VENTILATION UNIT
	CONDENSER UNIT
	EXTERNAL AIR EXHAUST GRILLE

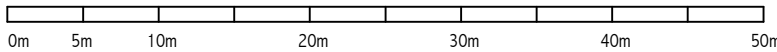
	INTERNAL AIR EXHAUST GRILLE
	AIR INTAKE GRILLE
	ABOVE TO BELOW
	WALL MOUNTED AIR-CONDITIONING UNIT
	WALL MOUNTED EXHAUST GRILL
	ONLINE EXHAUST FAN

NOTE:

- =GAS PIPE LINE DIAMETER=60MM Ø
- =LIQUID PIPE LINE DIAMETER=40MM Ø
- =AC INDOOR UNIT: H X W X D (MM) : 256 X 840 X 840
- =HRV UNIT: H X W X D (MM) : 710 X 1498 X 1140

SECOND FLOOR AIR CONDITION AND VENTILATION LAYOUT

SCALE 1:200



Revision	Date	Drawn By	Checked By

Client :
DEPARTMENT OF JUDICIAL ADMINISTRATION

Project Title :

ADDU COURT COMPLEX

Building Name :
ADDU COURT COMPLEX

Drawing Title :
**SECOND FLOOR AIR
CONDITION AND
VENTILATION LAYOUT**

Scale :
1:200

Discipline :
MEP

Stage :
SUBMISSION

Original Drawn By :
HANS

Checked By :
THORIQ

Date :
SEPTEMBER 2021

Design By :
AJMAL

Drawing Number :
33-103

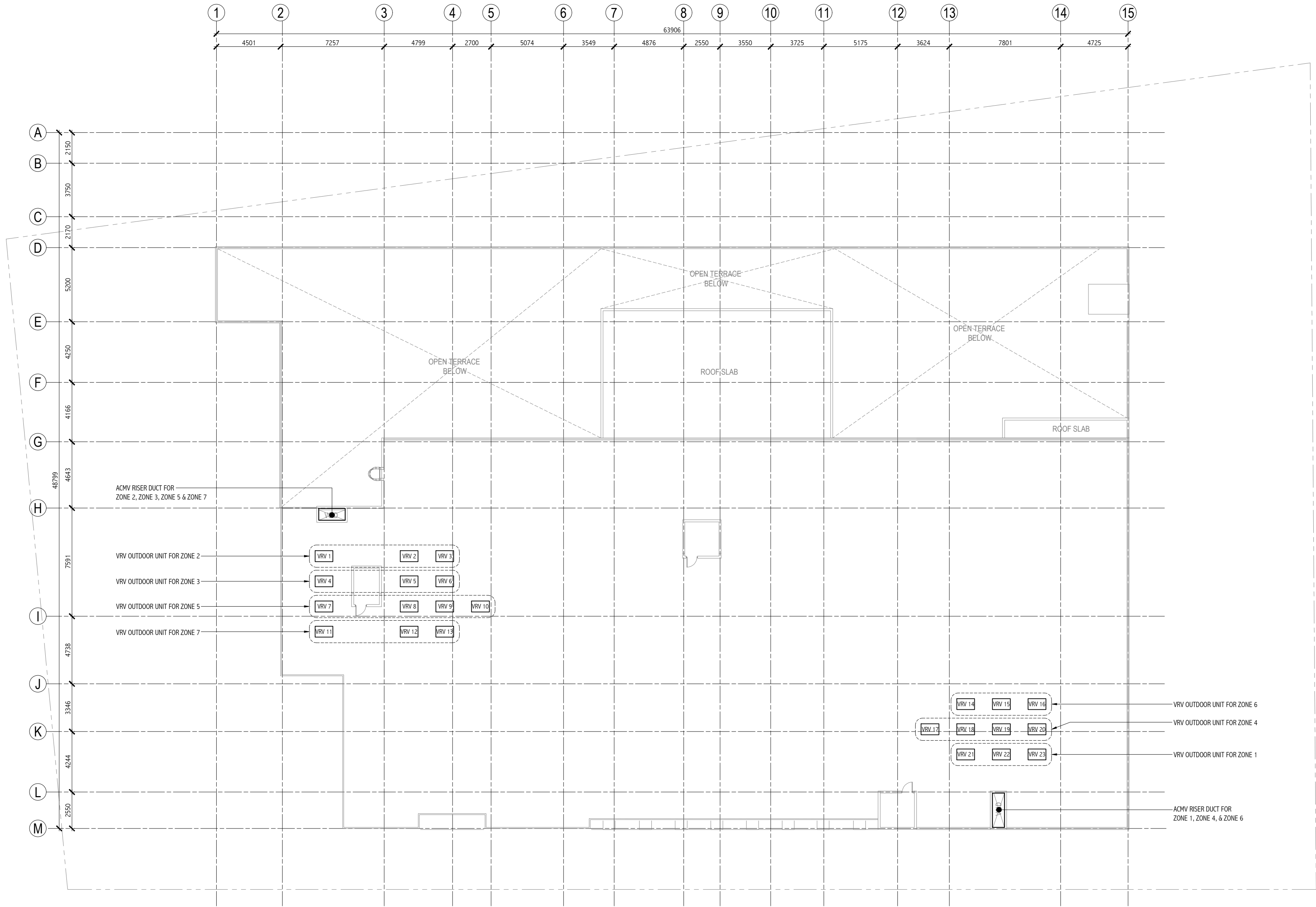
Revision Number :
R01

File Name :
H9-33-103R01.dwg

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- 19- ALL DUCT WORK AS PER DW144 STANDARD.
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- 21- PRE-INSULATED ALUMINIUM COVER GAS AND LIQUID LINE SHALL BE USED.
- 22- ALL OUTDOOR UNIT SHALL BE MOUNTED ON RUBBER MOUNTS.
- 23- ALL VRV OUTDOOR UNITS FINS SHALL BE TREATED WITH ANTI-CORROSIVE TREATMENT.

LEGEND

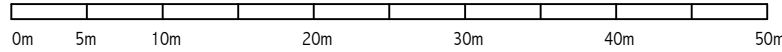
SYMBOL	DESCRIPTION
VRV	VRV OUTDOOR UNIT

NOTE:

=GAS PIPE LINE DIAMETER=60MM Ø
=LIQUID PIPE LINE DIAMETER=40MM Ø
=AC INDOOR UNIT: H X W X D (MM) : 256 X 840 X 840
=HRV UNIT: H X W X D (MM) : 710 X 1498 X 1140

ROOF VRV UNIT LOCATION PLAN

SCALE 1:200



Revision	Date	Drawn By	Checked By
-	-	-	-

Client :
DEPARTMENT OF JUDICIAL ADMINISTRATION

Project Title :
ADDU COURT COMPLEX

Building Name :
ADDU COURT COMPLEX
Drawing Title :
ROOF VRV UNIT LOCATION PLAN

Scale :
1:200
Discipline :
MEP
Stage :
SUBMISSION

Original Drawn By :
HANS
Checked By :
THORIQ
Date :
SEPTEMBER 2021
Design By :
AJMAL

Drawing Number :
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Revision Number :
R01

File Name :
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GROUND FLOOR

ZONE 1

FAN COIL UNIT		OUTDOOR UNIT	
FCU NO.	COOLING LOAD (BTU/HR)	UNIT NO.	TYPE
FCU 1	9000	VRV 1	VRV
FCU 2	24000		
FCU 3	24000		
FCU 4	24000		
FCU 5	24000		
FCU 6	30000		
FCU 8	9000		
FCU 9	15000		
FCU 10	7500		
FCU 11	7500		
FCU 12	7500		
FCU 13	24000		
FCU 14	24000		
FCU 15	15000		
FCU 17	30000		
FCU 18	9000		
FCU 19	12000		
FCU 21	18000		
FCU 22	24000		
FCU 23	7500		
FCU 24	12000		
FCU 25	9000		
FCU 26	9000		
FCU 27	12000		
FCU 29	18000		
FCU 30	30000		
FCU 31	18000		
FCU 32	12000		
FCU 33	12000		

ZONE 2

FAN COIL UNIT		OUTDOOR UNIT	
FCU NO.	COOLING LOAD (BTU/HR)	UNIT NO.	TYPE
FCU 20	18000	VRV 2	VRV
FCU 28	18000		
FCU 34	24000		
FCU 35	24000		
FCU 36	24000		
FCU 37	12000		
FCU 38	15000		
FCU 39	9000		
FCU 40	9000		
FCU 41	9000		
FCU 42	12000		
FCU 43	12000		
FCU 45	18000		
FCU 46	12000		
FCU 47	7500		
FCU 48	12000		
FCU 49	7500		
FCU 50	7500		
FCU 51	7500		
FCU 53	18000		
FCU 54	15000		
FCU 55	18000		
FCU 56	12000		
FCU 57	12000		
FCU 58	12000		
FCU 59	9000		
FCU 72	15000		
FCU 75	15000		

ZONE 3

FAN COIL UNIT		OUTDOOR UNIT	
FCU NO.	COOLING LOAD (BTU/HR)	UNIT NO.	TYPE
FCU 7	30000	VRV 3	VRV
FCU 16	18000		
FCU 44	18000		
FCU 52	18000		
FCU 60	12000		
FCU 61	18000		
FCU 62	24000		
FCU 63	24000		
FCU 64	12000		
FCU 65	24000		
FCU 66	24000		
FCU 67	24000		
FCU 68	12000		
FCU 69	12000		
FCU 70	12000		
FCU 71	15000		
FCU 73	7500		
FCU 74	15000		
FCU 76	18000		
FCU 77	18000		
FCU 78	24000		
FCU 79	7500		
FCU 80	7500		
FCU 81	7500		
FCU 82	12000		
FCU 83	7500		
FCU 84	12000		

FAN COIL UNIT		CONDENSOR UNIT	
FCU NO.	COOLING LOAD (BTU/HR)	CU NO.	TYPE
FCU 85	18000	CU 1	SPLIT
FCU 86	12000	CU 2	SPLIT
FCU 87	18000	CU 3	SPLIT

VENTILATION UNIT	VENTILATION RATE (CMH)
HRV 1	2000
HRV 2	1500
HRV 3	1000
HRV 4	1000
HRV 5	1500
HRV 6	1500
HRV 7	1500
HRV 8	2000
HRV 9	1000
HRV 10	2000
HRV 11	1500
HRV 12	1500
HRV 13	1500
HRV 14	1500
HRV 15	1500
EF 1	160
EF 2	500
EF 3	160
EF 4	800
EF 5	500
EF 6	160
EF 7	80
EF 8	250
EF 9	250
EF 10	80
EF 11	320
WMEF 1	300
WMEF 2	300
WMEF 3	500
WMEF 4	500

FIRST FLOOR

ZONE 4

FAN COIL UNIT		OUTDOOR UNIT	
FCU NO.	COOLING LOAD (BTU/HR)	UNIT NO.	TYPE
FCU 1	24000	VRV 4	VRV
FCU 2	24000		
FCU 3	24000		
FCU 4	24000		
FCU 5	24000		
FCU 6	24000		
FCU 8	18000		
FCU 9	7500		
FCU 11	18000		
FCU 12	7500		
FCU 14	30000		
FCU 15	24000		
FCU 16	24000		
FCU 17	24000		
FCU 18	24000		
FCU 19	24000		
FCU 20	24000		
FCU 21	12000		
FCU 22	18000		
FCU 23	12000		
FCU 24	9000		
FCU 25	9000		
FCU 26	18000		
FCU 27	18000		
FCU 28	9000		
FCU 29	9000		
FCU 30	12000		
FCU 31	9000		
FCU 32	12000		
FCU 33	9000		
FCU 34	9000		
FCU 35	12000		
FCU 36	18000		
FCU 37	18000		
FCU 54	30000		
FCU 55	18000		

ZONE 5

FAN COIL UNIT		OUTDOOR UNIT	
FCU NO.	COOLING LOAD (BTU/HR)	UNIT NO.	TYPE
FCU 7	18000	VRV 5	VRV
FCU 10	18000		
FCU 13	30000		
FCU 38	18000		
FCU 39	18000		
FCU 40	7500		
FCU 41	7500		
FCU 42	30000		
FCU 43	30000		
FCU 44	24000		
FCU 45	24000		
FCU 46	24000		
FCU 47	30000		
FCU 48	12000		
FCU 49	12000		
FCU 50	18000		
FCU 51	18000		
FCU 52	18000		
FCU 53	36000		
FCU 56	18000		
FCU 57	30000		
FCU 58	24000		
FCU 59	12000		
FCU 60	24000		
FCU 61	24000		
FCU 62	9000		
FCU 63	36000		
FCU 64	9000		
FCU 65	9000		
FCU 66	7500		

VENTILATION UNIT	VENTILATION RATE (CMH)
HRV 1	2000
HRV 2	1500
HRV 3	1000
HRV 4	1500
HRV 5	1500
HRV 6	2000
HRV 7	2000
HRV 8	2000
HRV 9	1500
HRV 10	800
HRV 11	2000
EF 1	160
EF 2	480
EF 3	160
EF 4	80
EF 5	80
EF 6	320

SECOND FLOOR

ZONE 6

FAN COIL UNIT		OUTDOOR UNIT	
FCU NO.	COOLING LOAD (BTU/HR)	UNIT NO.	TYPE
FCU 1	36000	VRV 6	VRV
FCU 2	36000		
FCU 3	15000		
FCU 4	24000		
FCU 5	24000		
FCU 6	30000		
FCU 7	30000		
FCU 8	30000		
FCU 9	36000		
FCU 10	36000		
FCU 11	36000		
FCU 12	12000		
FCU 13	12000		
FCU 14	12000		
FCU 15	12000		
FCU 16	24000		
FCU 17	24000		
FCU 18	24000		
FCU 19	12000		

ZONE 7

FAN COIL UNIT		OUTDOOR UNIT	
FCU NO.	COOLING LOAD (BTU/HR)	UNIT NO.	TYPE
FCU 20	12000	VRV 7	VRV
FCU 21	12000		
FCU 22	24000		
FCU 23	24000		
FCU 24	24000		
FCU 25	24000		
FCU 26	24000		
FCU 28	24000		
FCU 29	24000		
FCU 30	24000		
FCU 31	24000		
FCU 32	30000		
FCU 33	30000		
FCU 34	24000		
FCU 35	30000		

FAN COIL UNIT		CONDENSOR UNIT	
FCU NO.	COOLING LOAD (BTU/HR)	CU NO.	TYPE
FCU 26	12000	CU 1	SPLIT
FCU 27	12000	CU 2	SPLIT

VENTILATION UNIT	VENTILATION RATE (CMH)
HRV 1	2000
HRV 2	2000
HRV 3	2000
HRV 4	2000
HRV 5	2000
HRV 6	2000
EF 1	500
EF 2	320
EF 3	640
EF 4	250
EF 5	80

ROOF

OUTDOOR UNIT	
UNIT NO.	COOLING LOAD (BTU/HR)
VRV 1	160,000
VRV 2	114,000
VRV 3	92,000
VRV 4	138,000
VRV 5	138,000
VRV 6	138,000
VRV 7	160,000
VRV 8	138,000
VRV 9	138,000
VRV 10	138,000
VRV 11	114,000
VRV 12	114,000
VRV 13	114,000
VRV 14	112,000
VRV 15	112,000
VRV 16	112,000
VRV 17	160,000
VRV 18	160,000
VRV 19	138,000
VRV 20	138,000
VRV 21	160,000
VRV 22	138,000
VRV 23	138,000

EQUIPMENT SCHEDULE

SCALE 1:200

Revision	Date	Drawn By	Checked By
-	-	-	-

Client :
DEPARTMENT OF JUDICIAL ADMINISTRATION

Project Title :
ADDU COURT COMPLEX

Building Name :
ADDU COURT COMPLEX
Drawing Title :
EQUIPMENT SCHEDULE

Scale :

1:200

Discipline :

MEP

Stage :

SUBMISSION

Original Drawn By :
HOMER
Checked By :
THORIQ
Date :
SEPTEMBER 2021
Design By :
AJMAL

Drawing Number :
33-601

Revision Number :
R01

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