

PROJECT DESCRIPTION/ SCOPE OF WORK

IF PROPOSED, INDICATE THE FOLLOWING:

- NATURE OF THE PROJECT
- SPECIFY THE SCOPE OF WORK
- NECESSARY INFORMATION RELATIVE TO THE DESIGN OF FIRE ALARM SYSTEM
- IF MODIFICATION:
 - NATURE OF THE PROJECT
 - SPECIFY THE SCOPE OF WORK
- LIST OF PARAGRAPH MODIFICATION NOTE PROVIDED IN EACH FLOOR LEVEL THE SPECIFIC CHANGES/AMENDMENT OF FIRE ALARM SYSTEM

ITEM NO.	FLOOR / LEVEL	MODIFICATION
1.	GROUND FLOOR	CHANGED OF AREA
2.	MEZZANINE	CHANGED OF AREA
3.	1ST FLOOR	CHANGED OF AREA

NECESSARY INFORMATION RELATIVE TO THE DESIGN OF FIRE ALARM SYSTEM (NOTE: ELIMINATE IN THE GIVEN TABLE ALL THE APPLICATION REFERENCE OR PLAN SUBMISSION NUMBER FROM THE FIRST APPROVAL TO THE LATEST APPROVED MODIFICATION OF THE PROJECT.)

MODIFICATION REFERENCES / PREVIOUS APPROVALS

TYPE	APPLICATION REF. NO.	DATE OF APPROVAL	DESCRIPTION
HARD COPY			
QCD OLD PERMIT SYSTEM NAME PERMIT SYSTEM			

(Note: Constructed building without approval shall be treated as new)

LIST OF FIREFIGHTING DRAWINGS

SHEET	DWG. NO.	TITLE	SCALE/ SIZE
01	FA-000	COVER /FRONT PAGE	1:100, A1
02	FA-100	SITE PLAN	1:100, A1
03	FA-200	BASEMENT FIRE ALARM LAYOUT	1:100, A1
04	FA-201	GROUND FLOOR FIREALARM LAYOUT	1:100, A1
05	FA-202	FIRST FLOOR FIREALARM LAYOUT	1:100, A1
06	FA-203	SECOND FLOOR FIREALARM LAYOUT	1:100, A1
07	FA-204	THIRD FLOOR FIREALARM LAYOUT	1:100, A1
08	FA-205	ROOF PLAN FIREALARM LAYOUT	1:100, A1
09	FA-400	SCHEMATIC DIAGRAM	1:100, A1
10	FA-500	EQUIPMENT DETAILS	1:100, A1
11	FA-600	SECTION ELEVATION DETAILS	1:100, A1
12	FA-700	MISCELLANEOUS DETAILS	1:100, A1

(Use separate drawing for large development projects)

AREA STATEMENT

FLOOR / LEVEL DESIGNATION	FLOOR AREA (M ²)
SECOND BASEMENT	9,000
FIRST BASEMENT	9,000
GROUND FLOOR	2,000
MEZZANINE	2,000
1ST FLOOR	2,000
TOTAL BUILT UP AREA = 24,000	

FIRE ALARM SYSTEM DESIGN

* FIRE ALARM SYSTEM

- FIRE ALARM CONTROL PANEL
 - CONVENTIONAL TYPE
 - MAX. NO. OF DEVICES FOR ONE ZONE: _____
 - SPECIFY LOCATION: _____
 - ADDRESSABLE TYPE
 - MAX. NO. OF DEVICES FOR ONE ZONE/FLOOR: _____
 - SPECIFY LOCATION: _____
- INITIATION
 - DETECTIONS
 - SMOKE DETECTOR _____
 - SMOKE ALARM _____
 - HEAT DETECTOR _____
 - PROJECTED BEAM - TYPE DETECTOR _____
 - SMOKE DETECTOR FOR AIR DUCT SYSTEM _____
 - COMBINATION DETECTOR _____
 - LINE TYPE DETECTOR _____
 - MULTI-CRITERIA DETECTOR _____
 - MULTI-SENSOR DETECTOR _____
 - OTHERS: SPECIFY _____
 - MANUAL CALL POINT / PULL STATION _____
 - SUPERVISORY SIGNAL
 - WATER FLOW SWITCH _____
 - TAMPER/SUPERVISORY SWITCH _____
 - RELAY / MODULE _____
 - MONITORING MODULE _____
 - CONTROL MODULE _____
 - ISOLATION MODULE _____
 - INTERFACING MODULE _____
- INSTALLATION REQUIREMENTS FOR INITIATING DEVICES SHALL COMPLY IN ACCORDANCE WITH NFPA 72 (LATEST EDITION) CHAPTER 17, AS APPLICABLE
- Additional design parameters can be added for installation requirements as applicable

FIRE ALARM SYSTEM DESIGN

* OTHER MEANS

- FIRE EVACUATION PLAN / ZONE CHART
 - THIS SHALL BE AS-BUILT DRAWING PLAN OF THE BUILDING AND REQUIRED IN EACH OF EVERY FLOOR OF COMMON AREAS (E.G. LIFT LOBBY, CORRIDOR, ETC.) WHETHER NOTICABLE TO THE OCCUPANT / TENANT / PUBLIC. THE PLAN SHALL INDICATE ALL MANUAL INITIATING DEVICE, EXIT SIGN AND OTHER APPLICABLE FIRE MESSAGE.
- TWO WAY COMMUNICATION SYSTEM / FIRE TELEPHONE
 - TYPE _____
 - TELEPHONE JACK _____
 - FIRE TELEPHONE HANDSET _____
 - OTHER: SPECIFY _____
 - LOCATION _____
 - AREAS CONNECTED _____
- CENGELED CEILING / BLIND SPACE
 - CONCEALED CEILING _____
- CENTRAL ALARM MONITORING SYSTEM 'CAM'S'
 - TYPE _____
- FIRE EVACUATION PLAN / ZONE CHART
 - THIS SHALL BE AS-BUILT DRAWING PLAN OF THE BUILDING AND REQUIRED IN EACH OF EVERY FLOOR OF COMMON AREAS (E.G. LIFT LOBBY, CORRIDOR, ETC.) WHETHER NOTICABLE TO THE OCCUPANT / TENANT / PUBLIC. THE PLAN SHALL INDICATE ALL MANUAL INITIATING DEVICE, EXIT SIGN AND OTHER APPLICABLE FIRE MESSAGE.

FIRE ALARM LEGEND AND SYMBOLS

DESCRIPTION	REMARKS	MATERIALS	ENTRY	EXISTING
<>MM HEIGHT		NON-COMBUSTIBLE	NOT ACCESSIBLE	NO
<>MM HEIGHT		NON-COMBUSTIBLE	NOT ACCESSIBLE	NO
<>MM HEIGHT		NON-COMBUSTIBLE	NOT ACCESSIBLE	NO

- FACP: FIRE ALARM CONTROL PANEL
- MFACP: MAIN FIRE ALARM CONTROL PANEL
- EMACP: VOICE EVACUATION CONTROL PANEL
- GAP: GRAPHIC ANNUNCIATOR PANEL / LED MIMIC PANEL
- ZC: ZONE CHART
- IM: ISOLATION MODULE
- FD: FLAME DETECTOR-XX DENOTES TYPE
- H: HEAT DETECTOR-XX DENOTES TYPE
- E: MANUAL CALL POINT
- SD: SMOKE DETECTOR-XX DENOTES TYPE
- SA: SMOKE /HEAT DETECTOR/ SENSOR COMBINATION
- AS: BASIC AUDIBLE SOUND
- S: SPEAKER ONLY
- H: HEARING IMPAIRED
- V: VISIBILITY IMPAIRED
- AS: COMBINATION HORN/ VISIBLE
- AS: COMBINATION SPEAKER/ VISIBLE
- H: FIRE TELEPHONE HANDSET TYPE
- J: FIRE TELEPHONE JACK TYPE

(Refer to latest edition of NFPA 770 for other applicable fire symbols and being shown)

GENERAL NOTES

- ALL DESIGN AND INSTALLATION OF FIRE ALARM EQUIPMENTS SYSTEM SHALL BE IN ACCORDANCE TO THE RELATED CODES, STANDARD REFERENCES (E.G. NFPA 70, 72, 101, 170, 500, ETC.) IT IS RESPONSIBILITY OF THE ENDORSING ENGINEER TO OBTAIN CLARIFICATION TO QCD IN CASE OF NON-COMPLIANCE TO NFPA AND QCD REQUIREMENTS.
- ALL FIRE ALARM PIPES FOR FIRE SAFETY APPLICATION PENETRATING THRU WALL AND SLAB SHALL BE SEALED WITH FIRE RETARDANT MATERIAL WITH RATING OF NOT LESS THAN FIRE RATING OF THE WALL OR SLAB BEING PENETRATED.
- CONTRACTOR / CONSULTANT SHALL COORDINATE WITH OTHER TRADES PRIOR INSTALLATION ANY CONFLICT / OBSTRUCTION SHALL BE RESOLVED PROVIDED IF NECESSARY AND WHERE APPLICABLE
- BATTERY SUPPLY FOR FIRE ALARM SHALL HAVE SUFFICIENT CAPACITY TO OPERATE THE SYSTEM UNDER STANDBY CONDITION FOR A MINIMUM OF 24 HOUR AND SHALL BE CAPABLE OF OPERATING ALL THE ALARM NOTIFICATION APPLIANCES FOR 30 MINUTES DURING EMERGENCY EVACUATION.
- BATTERY CALCULATION SHALL SUBMIT UPON COMPLETE INSTALLATION OF APPLIANCES/DEVICES AND FUNCTIONAL TEST TO QCD BY THE TIME OF INSPECTION AS REQUIRED IN MINIMUM DOCUMENTATION FOR NEW FIRE ALARM SYSTEM.
- FIRE ALARM EQUIPMENT AND RELATED SYSTEM COMPONENTS SHALL BE QCD APPROVED TYPE.
- FIRE ALARM EQUIPMENT/SYSTEM AND COMPONENTS SHALL COMPLY WITH RELATED STANDARDS AND SPECIFICATION AS PER MANUFACTURERS RECOMMENDATION.

(Additional notes can be added as applicable to the project being submitted)

SYSTEM PERFORMANCE INPUT/ OUPUT

SYSTEM INPUTS	SYSTEM INPUTS							
	A	B	C	D	E	F	G	H
1. MANUAL CALL POINT	●	●	●	●	●	●	●	●
2. SMOKE DETECTOR	●	●	●	●	●	●	●	●
3. HEAT/FLAME DETECTOR	●	●	●	●	●	●	●	●
4. WATERFLOW					●	●		
5. SPINNELER CONTROL VALVE					●	●		
6. FIRE PUMP RUNNING					●	●		
7. FIRE PUMP POWER FAILURE /PHASE REVERSAL					●	●		
8. FIRE ALARM AC POWER FAILURE							●	●
9. FIRE ALARM SYSTEM LOW BATTERY							●	●
10. OPEN CIRCUIT							●	●
11. GROUND FAULT							●	●
12. NOTIFICATION APPLIANCE CIRCUIT SHORT							●	●

NOTES:

- NO MATRIX SHOWN IS DEFINE TO CONSTITUTE THE DESIGN OF FIRE ALARM SYSTEM HEREWITH, THIS CAUSE AND EFFECT (I/O) MATRIX IS INDICATIVE ONLY, ACTUAL DATA & MANUFACTURE'S STANDARD / RECOMMENDATION, THE CLIENT/OWNER APPROVAL IN ACCORDANCE WITH QCD GUIDELINES & NFPA 72 (2016) AS WELL AS THE FIRE ALARM SYSTEM CONFIGURATION DONE AT THE SITE SHALL ENSURE ITS CORRECTNESS WHEN THE WHOLE BUILDING SYSTEM IS PROGRAMMED.
- FINAL AND DETAILED SEQUENCE OF OPERATION SHALL BE DETERMINED ON ACTUAL SITE CONDITION, CONCEALED PARTS (CONSULTANT/ CONTRACTOR) AND APPROVED BY OWNER SYSTEM INPUT-OUTPUT PERFORMANCE TABLE NFPA 72 SHALL BE USED AS SUPPLEMENTAL INFORMATION.
- ACAW SEQUENCE OF OPERATION SHALL BE AS PER ACAM APPROVED DRAWINGS.

FIRE PREVENTION DEPARTMENT
GENERAL DIRECTOR OF FIRE SERVICES
MINISTRY OF INTERIOR, KINGDOM OF SAUDI ARABIA

ENDORSEMENT
REVIEWING THE SAFETY ENGINEER'S SIGNATURE

UPON REG. NO./GRADE: VALUITY: QATAR ID NO.: VALUITY:

UPON REG. NO./GRADE: VALUITY: QATAR ID NO.: VALUITY:

NAME & SIGNATURE OF CONSULTANT

CONSULTING ENGINEER COMPANY DETAILS

UPON REG. NO./GRADE: VALUITY: QATAR ID NO.: VALUITY:

UPON REG. NO./GRADE: VALUITY: QATAR ID NO.: VALUITY:

(ENGINEERING OFFICE LOGO)

UPON REG. NO./GRADE: VALUITY: QATAR ID NO.: VALUITY:

UPON REG. NO./GRADE: VALUITY: QATAR ID NO.: VALUITY:

SCALE SIZE: 1:100 DWG NO: FA-000 SHEET NO: 01/09

LOCATION: DOHA, QATAR AREA: 123456 SQM STREET: ABCD ST. PLOT: 1234567

ISSUED FOR QCD

DATE: 2019

(CLIENT OWNER)

(PROJECT TITLE)

(DRAWING TITLE SHEET CONTENT)