

- LEGENDS & SYMBOLS**
- PFE 4.50 kg MULTI-PURPOSE, TYPE ABC PORTABLE FIRE EXTINGUISHER
 - CO2 4.50 kg CARBON DIOXIDE TYPE PORTABLE FIRE EXTINGUISHER
 - WFE 50 kg MULTI-PURPOSE, TYPE ABC WHEELED TYPE FIRE EXTINGUISHER
 - SPRINKLER HEAD SYMBOLS: PENDENT TYPE SPRINKLER HEAD, UPRIGHT TYPE SPRINKLER HEAD, CONCEALED TYPE SPRINKLER HEAD
 - SPRINKLER TYPES: SIDE-WALL SPRINKLER 4.9 M, 32 GPM @16.0 PSI; SIDE-WALL SPRINKLER-EXTENDED COVERAGE 5.5 M, 36 GPM @20.3 PSI; SIDE-WALL SPRINKLER-EXTENDED COVERAGE 6.2 M, 40 GPM @25.0 PSI; SIDE-WALL SPRINKLER-EXTENDED COVERAGE 6.7 M, 44 GPM @30.3 PSI; SIDE-WALL SPRINKLER-EXTENDED COVERAGE 7.3 M, 48 GPM @36.0 PSI
 - FM 200 NOZZLES
 - QUICK COUPLER VALVE
 - FIRE HOSE CABINET
 - FIRE DEPARTMENT VALVE (DRY RISER) WITH 630 FIRE HOSE REEL
 - FLOOR CONTROL VALVE ASSEMBLY
 - CLEAN AGENT CYLINDER
 - FIRE ALARM BELL
 - FIRE ALARM HORN
 - CONTROL PANEL
 - ABORT & MANUAL SWITCH

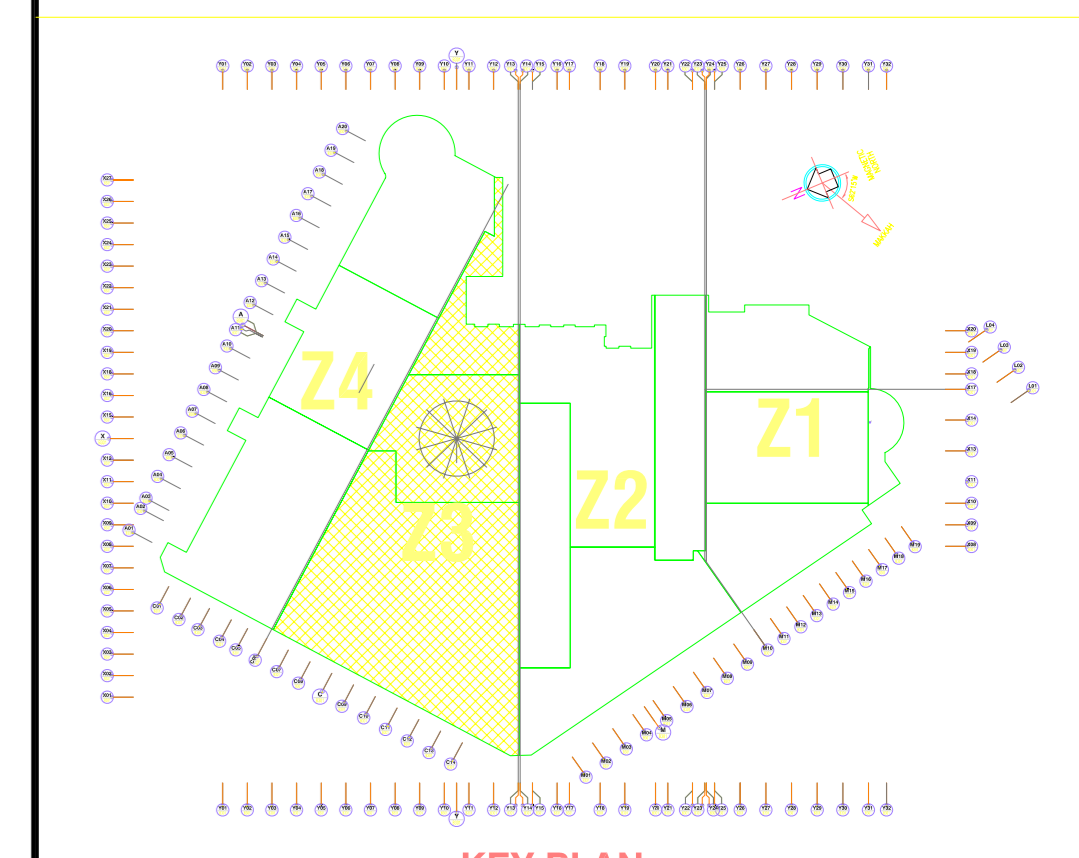
**FIRE PROTECTION PIPING LAYOUT
3RD BASEMENT PARTIAL FLOOR - ZONE 3
SCALE=1:200**

- NOTES:**
01. ALL DIMENSIONS ARE IN MILLIMETERS AND ELEVATIONS IN METER UNLESS OTHERWISE SHOWN.
 02. ALL PIPE SIZE SHOWN ARE NOMINAL PIPE DIAMETER IN MILLIMETERS.
 03. ALL FIRE PROTECTION INSTALLATIONS SHALL CONFORM WITH NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AND CIVIL DEFENCE REGULATIONS.
 04. FOR 2ND BASEMENT FRAMING PLAN, REFER TO DRAWING NO. 3015102 (REV. D DATED 2010).
 05. FOR SCHEDULE OF FINISHES, SECTION AND DETAILS, REFER TO DRAWING NO. 3015201 (REV. D).
 06. FOR SCHEDULE OF COLUMN REFER TO DRAWING NO. 3015301, 3015302, 3015303 & 3015304.
 07. FOR DRAINAGE SYSTEM 2ND BASEMENT (BELOW SLAB) REFER TO DRG. NO. 4P558-HCI-PB-002.
 08. FOR WATER SUPPLY SYSTEM 3RD BASEMENT (BELOW SLAB) REFER TO DRG. NO. 4P558-HCI-PB-003.
 09. FOR 3RD BASEMENT ARCHITECTURAL PLAN REFER TO DRG. NO. 3014101 (REV. C).
 10. FOR 3RD BASEMENT HVAC PLAN REFER TO DRG. NO. 3014101 (REV. C DATED 2010).
 11. FOR 3RD BASEMENT LIGHTING PLAN REFER TO DRG. NO. 3014101 (REV. C DATED 2010).
 12. FOR 3RD BASEMENT FIRE ALARM & VOICE EVAC SYSTEM PLAN REFER TO DRG. NO. 3014601.
 13. ALL PIPES SHOWN ON THE DRAWING ARE ERW GALVANIZED PIPES PIPES CONFORM TO ASTM A538M 50B (40 AND FITTINGS GALVANIZED GROUNDED AND GALVANIZED THREADED).
 14. ALL FIRE PROTECTION ACCESSORIES AND EQUIPMENTS SHOWN ON THIS DRAWING WILL BE AS PER APPROVED MATERIAL SUBMITTALS.
 15. PUMPS AND FIRE TANK ROOM DETAILED DRAWINGS WILL BE SUBMITTED FOR APPROVAL AFTER THE APPROVAL OF MATERIAL SUBMITTAL OF FIRE PUMPS AND ALL RELATED EQUIPMENTS (WILL BE SUBMITTED LATER).
 16. FOR SCHEDULE OF FIRE PUMPS & CAPACITIES REFER TO PUMP ROOM DETAIL DRAWINGS (WILL BE SUBMITTED LATER).
 17. DETAILS OF 630 FDR FHR WILL BE PROVIDED AFTER THE APPROVAL OF MATERIAL SUBMITTAL.
 18. DETAILS OF FIC WILL BE PROVIDED AFTER THE APPROVAL OF MATERIAL SUBMITTAL.
 19. DETAILS OF PIV, GVS & FS WILL BE PROVIDED AFTER THE APPROVAL OF MATERIAL SUBMITTAL.

- SYMBOLS**
- | | | | |
|--|--------------------------|--|--------------------------|
| | TEE W/ GROOVED END | | REDUCER |
| | 90° ELBOW W/ GROOVED END | | GATE VALVE |
| | 45° ELBOW W/ GROOVED END | | RISER NIPPLE (PLAN VIEW) |
| | 90° LONG RADIUS BEND | | |

- LEGENDS:**
- 2000 FWR WATER MAIN LINE
 - 1500 FWR WATER MAIN LINE
 - FIRE WATER BRANCH LINE TO SPRINKLERS

- ABBREVIATIONS:**
- | | | | |
|------|----------------------------------|--------|---------------------------|
| CELI | CEILING | ST | STRAINER |
| CV | CHECK VALVE | IE | INVERT ELEVATION |
| DN | DOWN | RI | RISER |
| FC | FLEXIBLE CONNECTION | RV | REGULATION VALVE |
| FACV | FIRE ALARM CHECK VALVE | RTS | ROOM TO SCALE |
| FCCA | FLOOR CONTROL VALVE ASSEMBLY | PFE | POTABLE FIRE EXTINGUISHER |
| FDR | FIRE DEPARTMENT VALVE | QCV | QUICK COUPLER VALVE |
| FHC | FIRE HOSE CABINET | RCV | REMOTE CONTROL VALVE |
| FHS | FIRE HOSE STATION | RN | RISER NIPPLE |
| FHW | FIRE WATER HORN | STD | STANDARD |
| FWR | FIRE WATER RISER | TYP | TYPICAL |
| FS | FLOW SWITCH | W | WITH |
| FWAC | FIRE WATER @ CEILING | " | INCH |
| FWDR | FIRE WATER DOWNHEAD | Ø | DIAMETER |
| GV | GATE VALVE | AND | |
| GVS | GATE VALVE W/ SUPERVISORY SWITCH | °C | DEGREES CENTIGRADE |
| PS | PRESSURE GAUGE | @ | AT |
| PRV | PRESSURE REDUCING VALVE | B.O.P. | BOTTOM OF PIPE |



REFERENCE DRAWINGS

REFERENCE DRAWING NO.	DRAWING DESCRIPTION
3015102	2ND BASEMENT FRAMING PLAN (REV. D DATED 2010)
3014101	3RD BASEMENT FLOOR PLAN (REV. C DATED 2010)
301FP201	3RD BASEMENT FIRE PROTECTION PLAN (REV. C DATED 2010)

COORDINATION

CONCURRED BY TECHNICAL DEPARTMENT HEAD	
CHECKED: ARCHITECTURAL, STRUCTURAL, ELECTRICAL, MECH, HVAC, PLUMBING, SCHEDULING, COORDINATION, ITC	
SIGNATURE	

01	25/03/2010	REVISED AS PER CONSULTANT'S COMMENTS			
00	10/03/2010	SHOP DRAWING ISSUED FOR APPROVAL			

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DRAWING TITLE
**FIRE PROTECTION PIPING LAYOUT
3RD BASEMENT PARTIAL FLOOR - ZONE 3**

Drawing Type	Drawing No.	Shr. No.	Rev. No.
FIRE PROTECTION	PC59-HCI-1-FP-001	04	01
Scale	Drawn By	Signature	Checked By
AS SHOWN	K.R.		K.H.
Drawing Status	Issued For	Date	
SHOP DRAWING	APPROVAL	25/03/2010	

