

PIPE SIZES UNLESS OTHERWISE STATED:
SPRINKLER RISER = Ø50mm STEEL
DISTRIBUTION = Ø50mm STEEL

ANY FIRE STOPPING PRODUCTS MUST BE
APPROVED AND COMPATIBLE FOR USE ON
CPVC PIPE

NOTE! ONLY THE COMMUNAL AREAS
HAVE BEEN GIVEN CONSTRUCTION,
ANY FLATS AWAITING INSTALL ARE
NOT APPROVED!

PLEASE CONFIRM IF
PROPOSED TANK AND PUMP
ROOM MIGHT BE
SUBJECTED TO
TEMPERATURES BELOW 4°C

2 DEDICATED SPRINKLER PUMP SETS

Ø50mm RISER T/A

BIKE
SHED

NO
ACCESS

DEDICATED GRP TIF SECTIONAL SPRINKLER TANK

- 2no. 1M X 7M X 1.5M HEIGHT TANK COMPARTMENTS
- 2no. TANK OUTLETS TO SUPPLY SPRINKLER PUMP SETS
- 2no. LOW LEVEL DRAIN VALVES
- 2no. ACCESS HATCHES
- BASE LEVELING STEELS
- 2no. LOW LEVEL ALARM

EXACT SIZE OF TANK AND ALL COMPONENTS TO BE CONFIRMED FOLLOWING COMPLETION
OF FULL HYDRAULIC CALCULATIONS

SPRINKLERS NOT COORDINATED WITH ANY OTHER
SERVICE.
PLEASE NOTE THE FOLLOWING:

- PENDANTS, SMOKE AND HEAT DETECTORS TO BE
MINIMUM 500MM AWAY FROM SPRINKLER HEAD
- EXTRACTS AND SUPPLYS TO BE MINIMUM 300MM
AWAY FROM SPRINKLER HEAD



HAYWOOD WAY, NORTH RIDGE IND. EST,
HASTINGS, EAST SUSSEX, TN35 4PL
TEL: 01424 812557 FAX: 01424 428697
info@trianglefiresystems.co.uk
www.trianglesprinklersystems.co.uk



DRAWING TITLE:
SPRINKLER LAYOUT
BASEMENT FLOORS



PROJECT:
INDIA HOUSE
MANCHESTER

CLIENT:
WATES

DRAWN:
K.E.D

DATE:
04/01/21

CHECKED:
J.B.B

DATE:
04/01/21

APP:
J.B.B

DATE:
04/01/21

CLIENT INFORMATION:

PLEASE REVIEW THIS DRAWING AND ADVISE TRIANGLE FIRE SYSTEMS LTD BY RETURN IF YOU WISH TO MAKE ANY COMMENTS, OR ARE AWARE OF ANY FACTORS THAT MAY AFFECT OUR DESIGN LAYOUT OR INSTALLATION. N.B., POSITIONING OF SPRINKLERS IS CRITICAL TO ENSURE COMPLIANCE WITH DESIGN STANDARD. PLEASE FORWARD THIS DRAWING TO ALL PARTIES INVOLVED IN THE DESIGN APPROVAL PROCESS INCLUDING THE AUTHORITY HAVING JURISDICTION E.G. FIRE OFFICER, BUILDING CONTROL ETC. INFORMATION THAT EFFECTS THE TIMELY COMPLETION OF OUR DESIGNS OR RESULT IN CHANGES TO THE ORIGINAL SCOPE OF WORK WILL BE RECORDED AND PROCESSED AS A VARIATION TO THE ORIGINAL CONTRACT. SPRINKLERS & COVER PLATES MUST NOT BE PAINTED. SPRINKLER PIPE ROUTES HAVE BEEN CO-ORDINATED WITH THE INFORMATION PROVIDED PIPE ROUTES MAY VARY ON SITE.

HANGERS AND SUPPORTS SPACING	
NOMINAL PIPE SIZE: (MILLIMETERS)	SUPPORT SPACING: (METERS)
(20)	(1.7)
(25)	(1.8)
(32)	(2.0)
(40)	(2.1)
(50)	(2.4)
(65)	(2.7)
(80)	(3.0)

EXTERNAL DRAWING REFERENCE:

ARCH: -

ELECTRICAL: -

MECHANICAL: -

PROJECT ID: 9380

DESIGN ENHANCEMENTS: BS9251 2021	RESIDENTIAL AREAS:	NON RESIDENTIAL AREAS:
CATEGORY (BS9251:2021 TABLE 1)	4	4
TABLE (1,3,4)	2	3
HEAD STANDARD	UL 1626	UL 1626
DENSITY mm/min (l/min/M2)	2.8	2.8
SPRINKLER PIPEWORK	CPVC	CPVC
MINIMUM SPRINKLER PRESSURE	0.50 BAR	0.50 BAR
MINIMUM SPRINKLER SPACING	2.4M	2.4M
MAXIMUM AREA/HEAD (M2)	25	25
WATER SUPPLY ARRANGEMENT	DEDICATED TANK AND PUMP	
POWER SUPPLY CONFIG.	U.P.S	
DURATION	60 MINUTES	
DENSITY mm/min (l/min/M2)	2.8	
F.B. INLET	N/A	
REMOTE MONITORING	DEDICATED ALARM PANEL BY TFS	

FLAT DESIGN CRITERIA (UNLESS OTHERWISE STATED): BS9251 2014	
CATEGORY (BS9251:2014 TABLE 1)	2
DENSITY mm/min (l/min/M2)	2.80mm
SPRINKLER PIPEWORK	CPVC
SOURCE & DURATION OF SUPPLY	DEDICATED TANK & PUMP - 30 MINS
MINIMUM SPRINKLER PRESSURE	0.50 BAR
MINIMUM SPRINKLER SPACING	2.4M
DEPARTURES FROM RULES	YES OR NO (IF YES LIST)
CLAUSES USED	-
COMPENSATORY FEATURES	-
ALARM	DEDICATED ALARM PANEL BY TFS

DEPARTURE FROM RULES / CLAUSES USED:	AHJ AGREEMENT
CORRIDOR PROTECTION	TO BE CONFIRMED / DEVIATION
-	-
-	-
-	-

DRAWING LEGENDS & NOTES	
	SPRINKLER: CONCEALED / PENDANT / UPRIGHT / SIDEWALL / LOW FLOW
	SPRINKLER VALVE GROUP
	CPVC PIPE/RISER
	MEDIUM WEIGHT STEEL PIPE/RISER
	CPVC SPRINKLER PIPE (FLATS)
	MEDIUM WEIGHT STEEL PIPE
	FLAT INSTALLED TO BS9251 2021 STANDARD

HANGERS AND SUPPORTS SPACING - FOR CPVC PIPEWORK	
NOMINAL PIPE SIZE: (MILLIMETERS)	SUPPORT SPACING: (METERS)
(20)	(1.7)
(25)	(1.8)
(32)	(2.0)
(40)	(2.1)
(50)	(2.4)
(65)	(2.7)
(80)	(3.0)

C02	DRAWING UP-ISSUED TO CONSTRUCTION	C.P.M	C.A.F	12/12/21
A05	AMENDED TO SUIT COMMENTS	C.P.M	C.A.F	10/11/22
A04	REVISED LAYOUT, MOVED TANK AND PUMP	C.P.M	C.A.F	25/10/22
C01	DRAWING UP-ISSUED TO CONSTRUCTION	C.P.M	K.D	08/06/21
A03	RISER AMENDED	C.P.M	K.D	07/05/21
A02	LAYOUT AMENDED	C.P.M	K.D	26/04/21

REV.	REVISION DETAIL	DRN.	CHK'D	DATE
------	-----------------	------	-------	------

DRAWING STATUS:		SCALE:	SIZE:
CONSTRUCTION		1:125	A1

DRAWING NUMBER:			REV:
TFS-RS-9380-0LB11			C02