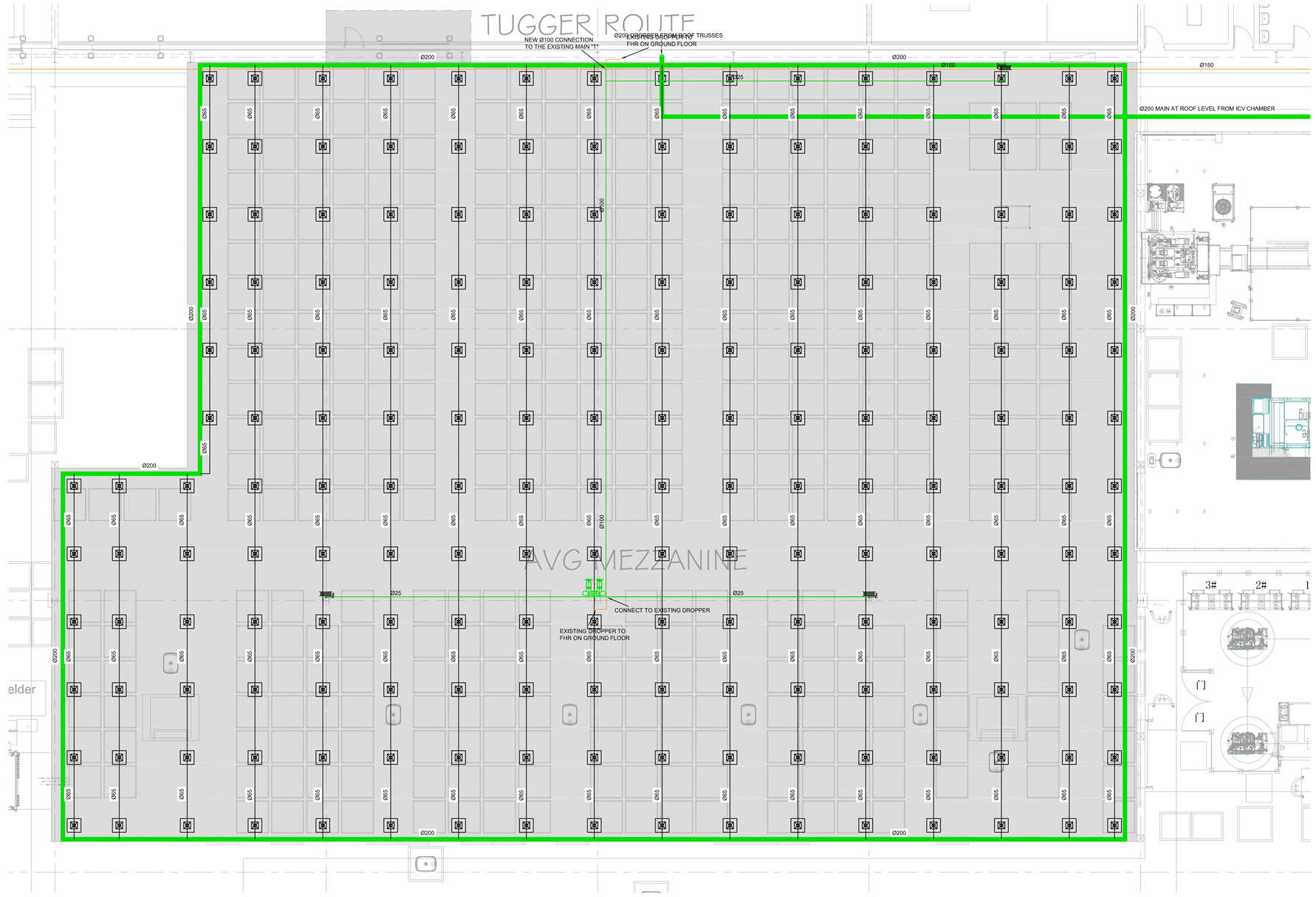
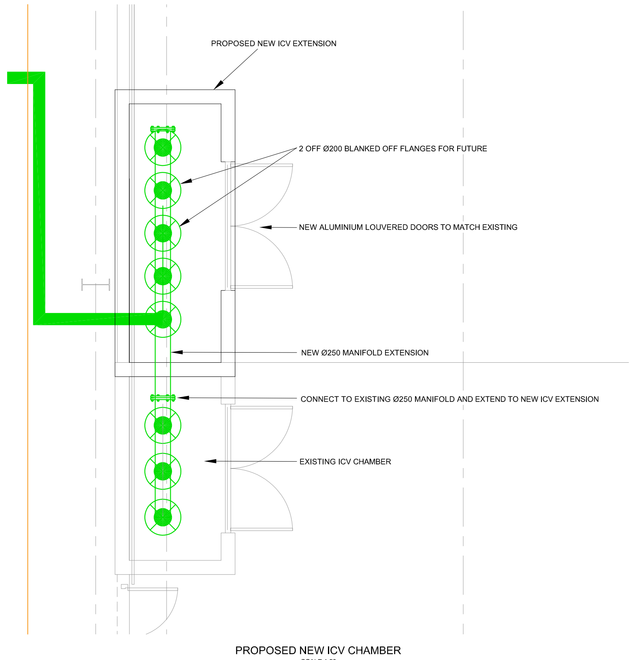
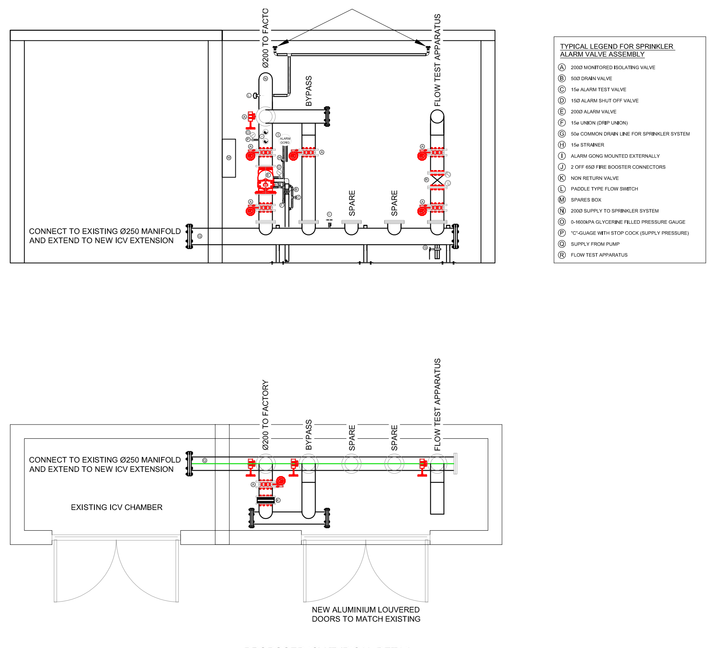




PROPOSED NEW ICV CHAMBER
SCALE 1:50

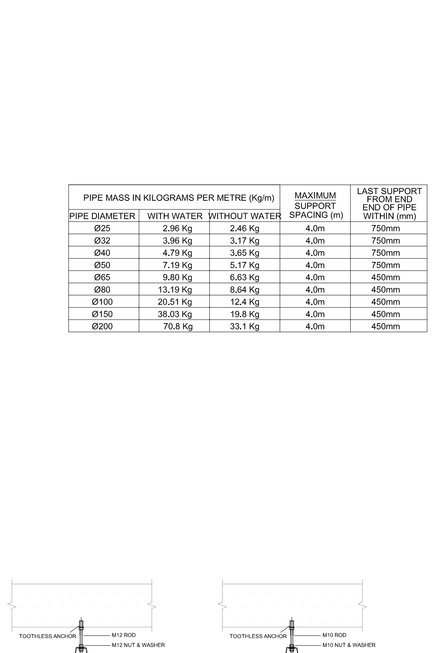


PROPOSED ICV TYPICAL DETAIL
SCALE 1:50

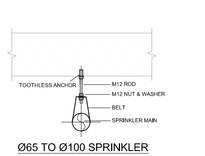
TYPICAL LEGEND FOR SPRINKLER ALARM VALVE ASSEMBLY

- (A) 2000 WORCITO-BOLATING VALVE
- (B) 50Ø DRAIN VALVE
- (C) 15x ALARM TEST VALVE
- (D) 100 ALARM SHUT OFF VALVE
- (E) 2000 ALARM VALVE
- (F) 15x UNION (OFF-LINE)N
- (G) 15x COMMON DRAIN LINE FOR SPRINKLER SYSTEM
- (H) 15x STRAINER
- (I) ALARM GONG MOUNTED EXTERNALLY
- (J) 2 OFF 65Ø FIRE BOOSTER CONNECTORS
- (K) NON RETURN VALVE
- (L) PADDLE TYPE FLOW SWITCH
- (M) SPARES BOX
- (N) 2000 SUPPLY TO SPRINKLER SYSTEM
- (O) 0-900KPA GLYCERINE FILLED PRESSURE GAUGE
- (P) 15" GUAGE WITH STOP COCK (SUPPLY PRESSURE)
- (Q) SUPPLY FROM PUMP
- (R) FLOW TEST APPARATUS

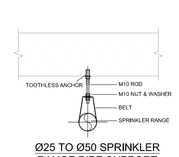
PIPE MASS IN KILOGRAMS PER METRE (Kg/m)			MAXIMUM SUPPORT SPACING (m)	LAST SUPPORT FROM END END OF PIPE WITHIN (mm)
PIPE DIAMETER	WITH WATER	WITHOUT WATER		
Ø25	2,96 Kg	2,46 Kg	4,0m	750mm
Ø32	3,96 Kg	3,17 Kg	4,0m	750mm
Ø40	4,79 Kg	3,65 Kg	4,0m	750mm
Ø50	7,19 Kg	5,17 Kg	4,0m	750mm
Ø65	9,80 Kg	6,63 Kg	4,0m	450mm
Ø80	13,19 Kg	8,64 Kg	4,0m	450mm
Ø100	20,51 Kg	12,4 Kg	4,0m	450mm
Ø150	38,03 Kg	19,8 Kg	4,0m	450mm
Ø200	70,8 Kg	33,1 Kg	4,0m	450mm



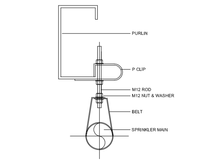
PROPOSED PIPE SUPPORT DETAIL TO OCCUR WHERE PIPE DROPS FROM HIGH LEVEL



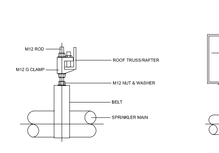
Ø65 TO Ø100 SPRINKLER MAIN PIPE SUPPORT
N.T.S.



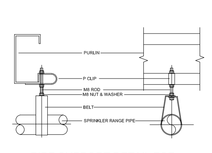
Ø25 TO Ø50 SPRINKLER RANGE PIPE SUPPORT
N.T.S.



INTERMEDIATE PIPE SUPPORT DETAIL FOR SPRINKLER MAIN PIPES
TO OCCUR AT MAX 4m INTERVALS
N.T.S.



PIPE SUPPORT DETAIL FOR SPRINKLER MAIN PIPES
TO OCCUR AT INTERSECTION OF TRUSSES
N.T.S.



PIPE SUPPORT DETAIL FOR SPRINKLER RANGE PIPES
TO OCCUR AT MAX 4m INTERVALS
N.T.S.

GENERAL NOTES

1. THE CHANGES TO THE SPRINKLER SYSTEM SHALL MATCH THE CURRENT INSTALLATION IN ACCORDANCE WITH THE SPECIFICATIONS AND SABS 0287 AND SABS 0400
2. EXTERNAL / EXPOSED SPRINKLER PIPING ABOVE GROUND SHALL BE GALVANIZED TO RELEVANT SABS STANDARDS
3. INTERNAL / EXPOSED SPRINKLER PIPING ABOVE GROUND SHALL BE BLACK MILD STEEL TO RELEVANT SABS STANDARDS
4. ALL SPRINKLER PIPING SHALL BE PRESSURE TESTED TO 14bar
5. ALL SPRINKLER PIPING SHALL BE CLEANED, PRIMED AND PAINTED WITH RED OXIDE AND SIGNAL RED ENAMEL PAINT ON COMPLETION OF INSTALLATION

LEGEND

- SPRINKLER MAIN
- ESFR SPRINKLER HEAD (K25 TO MATCH EXISTING)
- SPRINKLER RISER
- RANGE PIPES

DESIGN DATA

DESIGN DENSITY AND HAZARD

AREA	DENSITY	HAZARD	CATEGORY
ROOF	ESFR	HIGH	
OFFICES	5 mm/min	ORDINARY	

SPRINKLERS

AREA	TYPE	TEMPERATURE
ROOF	FM APPROVED	TO MATCH EXISTING (74°C, K = 363 TO BE CONFIRMED ON SITE)
OFFICE	FM APPROVED	68°C

REVISIONS

Rev ID	CND	Change Name	Date

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Client Aproval:

Date:

PROJECT

MANUFACTURING FACILITY IN ZONE 1A
C2 (YANFENG) ADDITIONS AND ALTERATIONS

LOCATION

CE2 (YANFENG FACILITY)
IDZ EAST LONDON

ISSUED FOR

FOR INFORMATION

DRAWING

FIRE PROTECTION SERVICES : SPRINKLER INSTALLATION (MEZZANINE PHASE)

PROJECT NO.	2019 - 348
DRAWING NO.	CE2 - 12 - 001
Scale:	1:100
Date:	2020/07/28
DRAFTING AND DESIGN TEAM	
Drawn by:	C.Leach
Checked by:	C.Leach

APPROVAL DRAWING

Name: DJ Evans
Pr. Tech. (Eng.) 200570031

Signed: Date:

Practice: Evans Consulting Engineers cc
CK 2010/127707/23