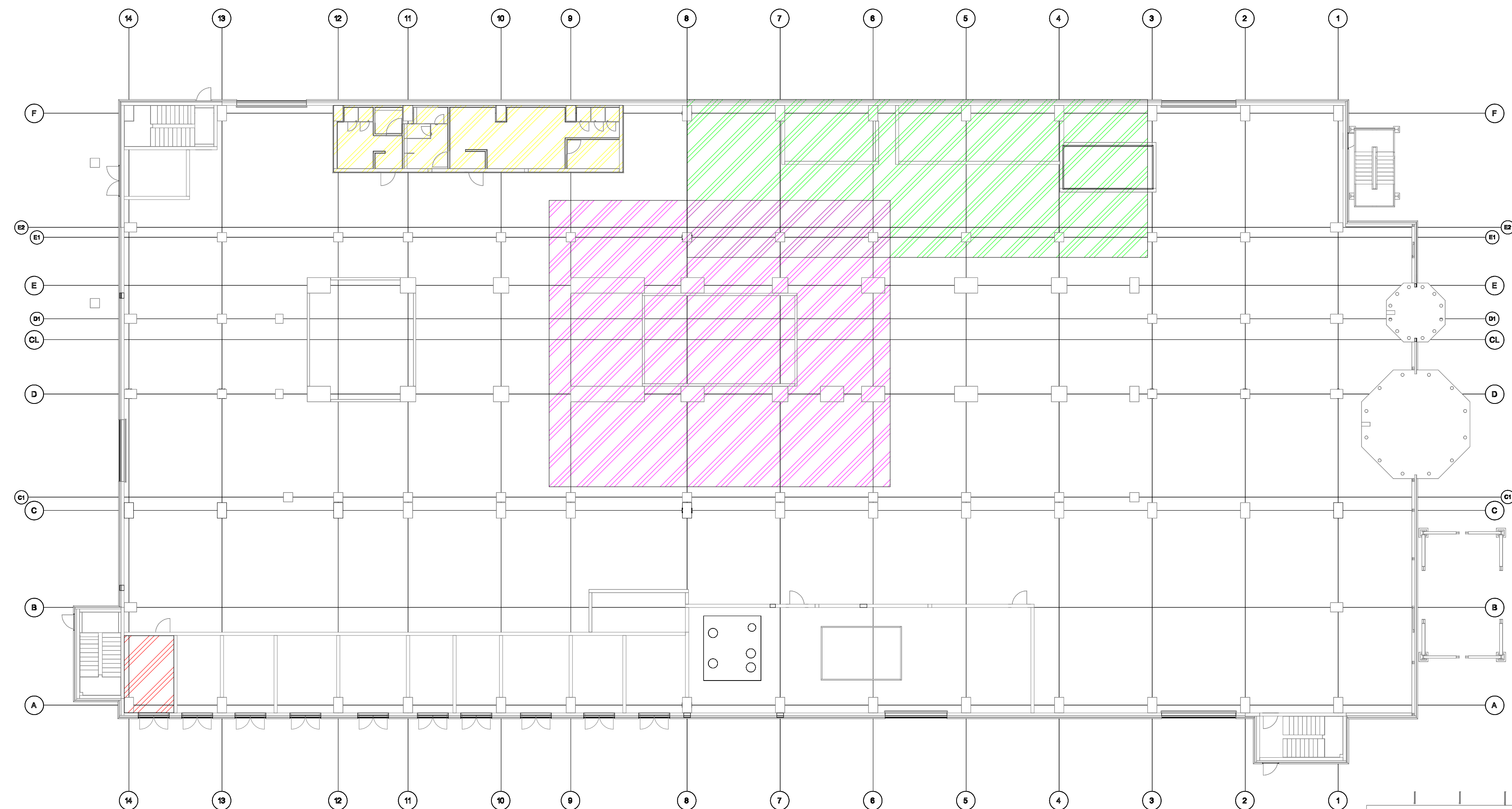
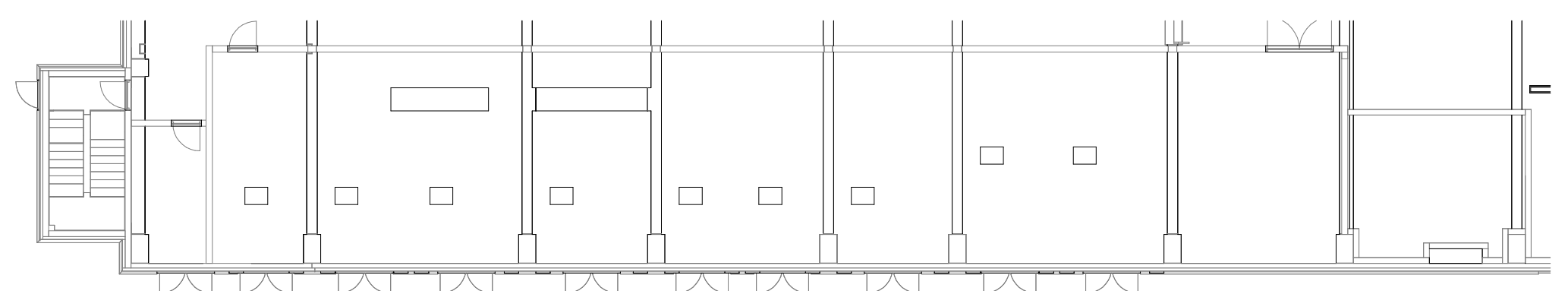


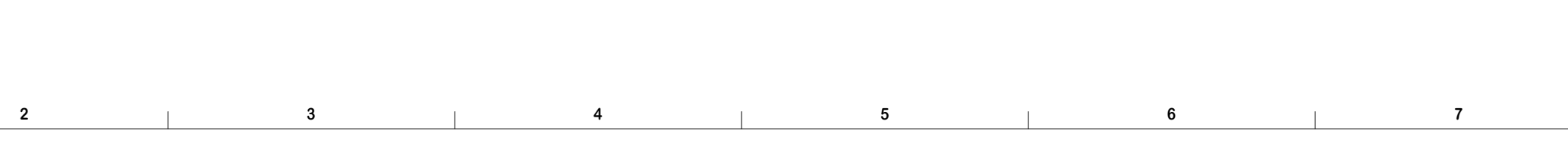
1 Basement Level
1 : 200



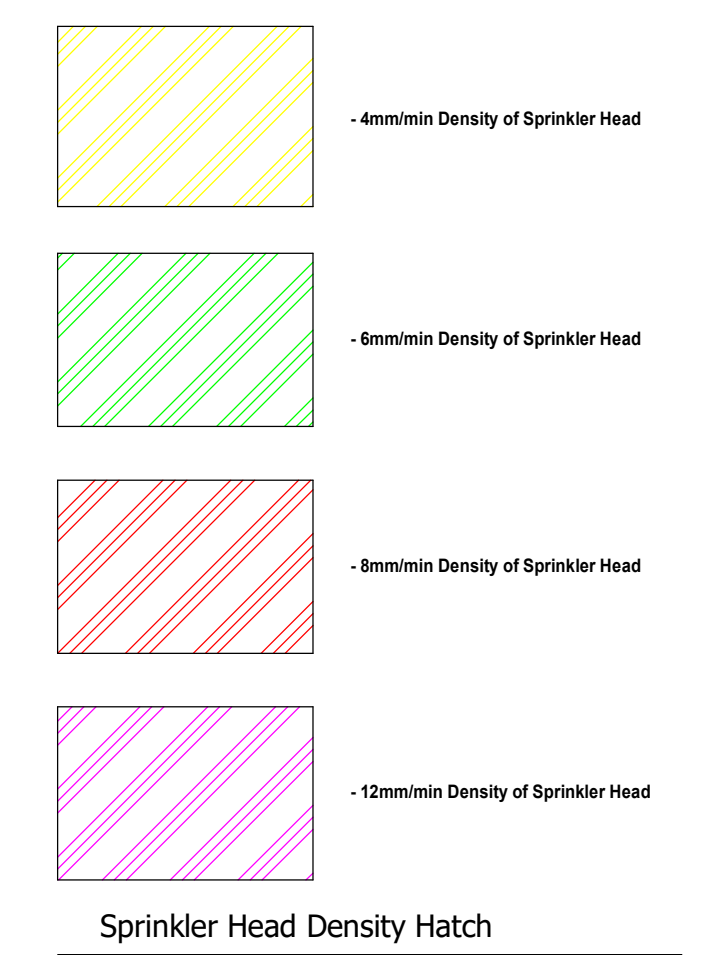
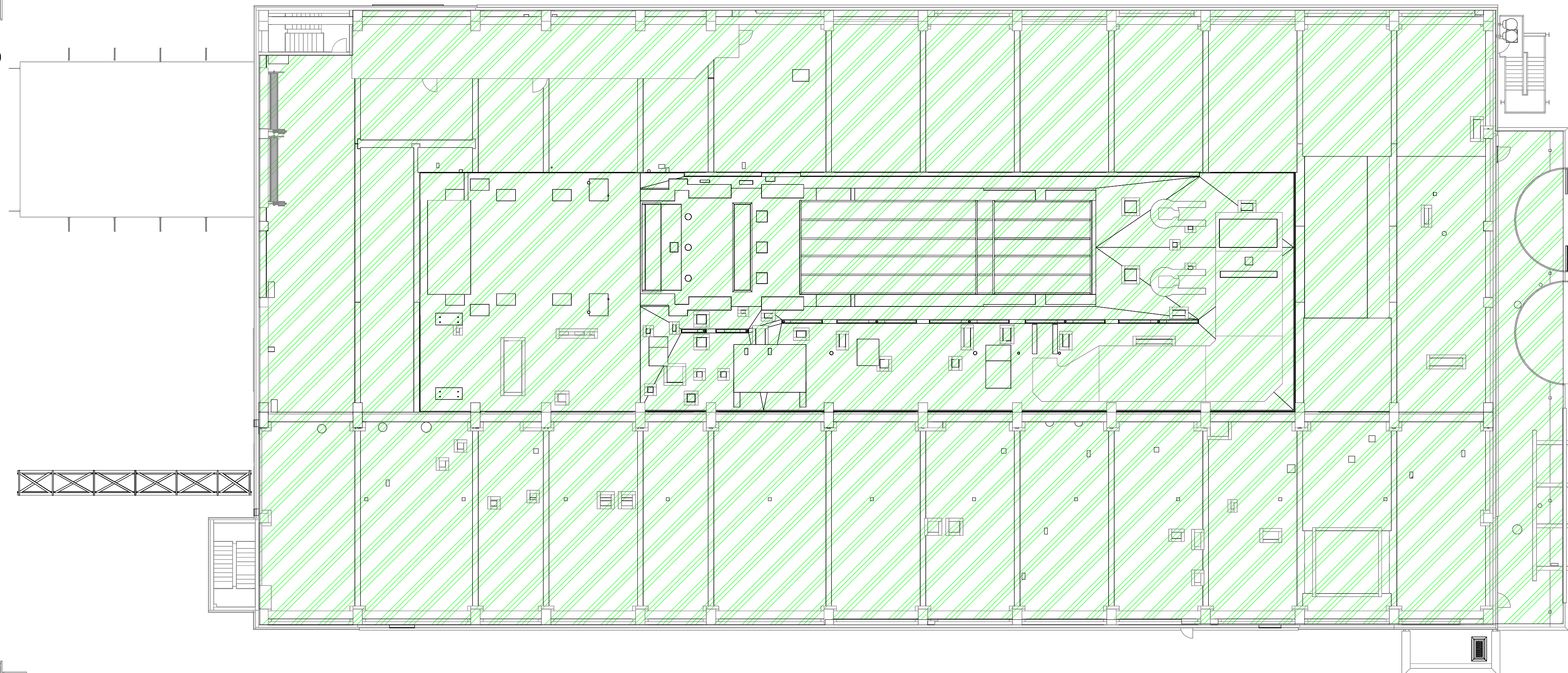
2 Mezzanine Level
1 : 200



4 MCC Room Upper Level
1 : 200



3 Roof Level
1 : 200



PIPE SUPPORTS

REFER TO LAYOUT FOR INDICATIVE SUPPORT FRINGS AND LOCATIONS.

SUPPORTS SHALL BE SPACED NO MORE THAN 4M APART UNLESS THE FREQUENCY OF FRINGS IS OVER DETERMINED BY OTHER MEANS. WHERE THE DISTANCES MAY BE INCREASED BY THE PROVISION OF ADDITIONAL SUPPORTS AND FITTED DIRECTLY TO THE STRUCTURE.

WHEN MECHANICAL PIPE JOINTS ARE USED:

- THERE SHALL BE AT LEAST ONE SUPPORT SPACING FROM EACH JOINT.
- THERE SHALL BE AT LEAST TWO SUPPORTS IN EACH PIPE SECTION.
- THE DISTANCE FROM ANY TERMINAL SPRINKLER TO A SUPPORT SHALL NOT EXCEED:
 - 1.5M FOR RISE OR DROP.
 - 2.4M FOR SPRINKLER WITH GUARD.

THE DISTANCE FROM ANY SUPPORT SPRINKLER TO A SUPPORT SHALL NOT EXCEED 1.5M UNLESS IN VERTICAL PIPES SHALL HAVE ADDITIONAL SUPPORTS IN THE FOLLOWING CASES:

- RISES MORE THAN 1.5M.
- RISES MORE THAN 1.5M WITH PRESSURE BREAK SPRINKLER.

PIPES THAT ARE AT A 45° ANGLE OR MORE TO THE HORIZONTAL SHALL BE SUPPORTED AS FOLLOWS:

- HORIZONTAL PIPES SHALL HAVE SUPPORTS TO THE FOLLOWING CASES:
 - RISES MORE THAN 1.5M.
 - RISES MORE THAN 1.5M WITH PRESSURE BREAK SPRINKLER.
 - DROPS OF MORE THAN 1.5M.

FOR STRUCTURAL REQUIREMENTS CONSULT THE STRUCTURAL ENGINEER FOR THE BEST METHOD OF STEEL BEAM HANGING.

PIPE SIZE (DN)	25	32	40	50	63	80	100	125	150	200	250	300
SPACING (M)	3.0	3.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
MAX. HEIGHT (M)	3.0	3.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0

REFERENCE DRAWINGS

THIS DRAWING HAS BEEN CHECKED OFF FACE OF WORK.

ALL CHANGES OR ADDITIONAL INFORMATION INCORPORATED AFTER THE DATE SHOWN CONSTITUTE A VARIATION TO CONTRACT.

SYMBOLS & ABBREVIATIONS

SPRAY PATTERN SPRINKLER	2ND FIX ELEMENT - SEE DETAIL
CONVENTIONAL PATTERN SPRINKLER	BSP THREADED BALL VALVE
SPRINKLER WITH GUARD	BSP THREADED GATE VALVE
SPRINKLER ON RISE / DROP	CHECK VALVE (GR/GRV)
HIGH TEMP SPRINKLER	CHECK VALVE (BSP)
SPRINKLER WITH BAFFLE	AIR RELEASE VALVE
SPRINKLER ON RISE & DROP	BUTTERFLY GATE VALVE (GRV/FLANGE ADAPTED)
HORIZONTAL SIDEWALL SPRINKLER	BUTTERFLY GATE VALVE (GRV/GRV)
VERTICAL SIDEWALL SPRINKLER	ZONE VALVE ARRANGEMENT
EXISTING SPRINKLER	ZONE CHECK ARRANGEMENT
SPECIAL SPRINKLER - SEE SCHEDULE	PIPE SUPPORT
STANDARD RESPONSE SPRINKLER	HEIGHT AFFIL
QUICK RESPONSE SPRINKLER	HEIGHT BELOW SLAB
OPEN SPRINKLER (DELUGE)	SPRINKLER
SPRAY NOZZLE SPRINKLER	MULTIPLE JET CONTROL
UPFRONT SPRINKLER	RISE
HEADUP SPRINKLER	RISE FROM BELOW
RISE / DROP ON TEE	RISE TO ABOVE
RISE / DROP ON ELBOW	DROP
RISE AT 45° ON ELBOWS	DRIP
DROP AT 45° ON ELBOWS	DRIP FROM ABOVE
RISE AT 45° TREE JUNCTION	TO OUT
DROP AT 45° TREE JUNCTION	CENTRE LINE
VICTALIC JOINT	DRAIN VALVE (PLUGGED)
FLANGED JOINT	TEST VALVE (PLUGGED)
WELDED OUTLET - THREADED	FLUSHING VALVE (PLUGGED)
WELDED OUTLET - GROOVED	DIRECTION OF FALL
TH & LARGED PIPEWORK	HYDRAULIC DESIGN POINT
DRY / PRE-ACTION PIPEWORK	

BUILDING CONSTRUCTION

INTERNAL WALLS / PARTITIONS	Blockwork / Brick / Dry Rub (Continuous / Non)
EXTERNAL WALLS	Blockwork / Brick / Cladding (Continuous / Non)
ROOFS / CEILING	Blockwork / Brick / Cladding (Continuous / Non)

DESIGN CRITERIA

OCCUPANCY	Page 188
INSTALLATION NUMBER / SIZE / TYPE	TBC
WATER SUPPLY	TBC
HAZARD CLASSIFICATION	TBC
AREA OF ORIGIN (M ²)	TBC
DENSITY OF DISCHARGE (W/MIN)	See Pipe Valve
DETERMINED ACCORDANCE	EN 12241
PIPE TABLES	FNC
STORAGE TYPE / HEIGHT / CATEGORY	NA
HIGHEST SPRINKLER ABOVE 'C' GAUGE	TBC

TUBE SPECIFICATION / FINISH

TUBE SPECIFICATION	BS EN 10225 HD Black / BS EN 10225 HD Black
FITTING SPECIFICATION	BS EN 10225 HD Gray / BS EN 10225 HD Gray
PIPE FINISH	BS EN 10225 HD 143 / 150B Black / Red Oxide

REV	DESCRIPTION	DRWN	CHKD	DATE
P03	Sprinkler Head density Zone Plan			06/10/2025
P02	Updated Scope			23/09/2025
P01	Preliminary			23/04/2025

REVIEW & COMMENT
"NOT FOR FABRICATION"

Enterprise Park,
Unit 16 Oxwich Court,
Valley Way,
Swansea SA6 8RA

CLIENT: Wepa

TITLE: Sprinkler System Density Zone Plan

CONTRACT: Vesta

DATE: 23/04
SCALE: As Indicated @ A0
STATUS: S3

CREATED BY: DLJ
APPROVED BY: [Signature]
MODEL NUMBER: FPS-V1-00-DR-ME-0000

DRAWING NUMBER: FPS-V1-02-DR-ME-0002
REV: P03