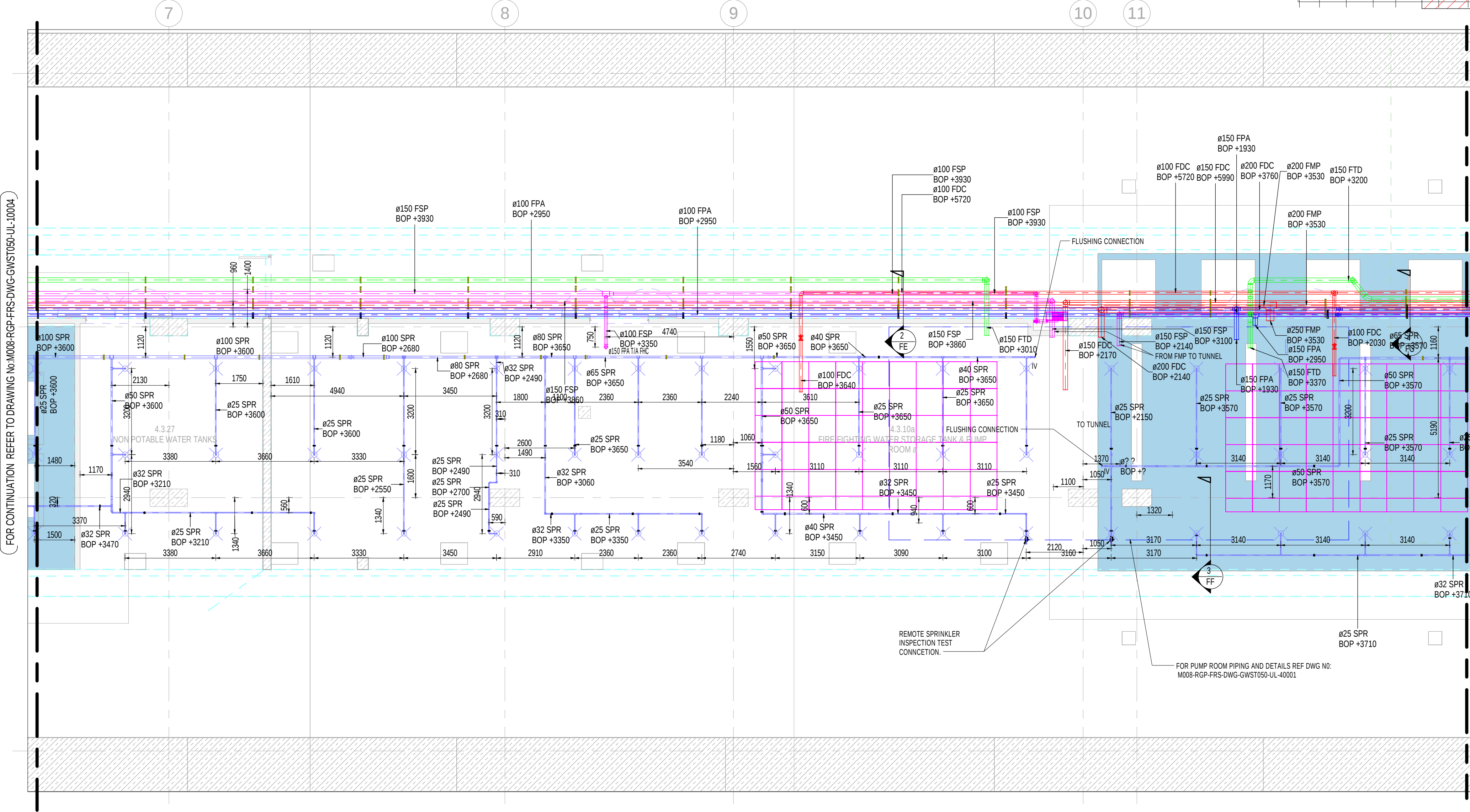
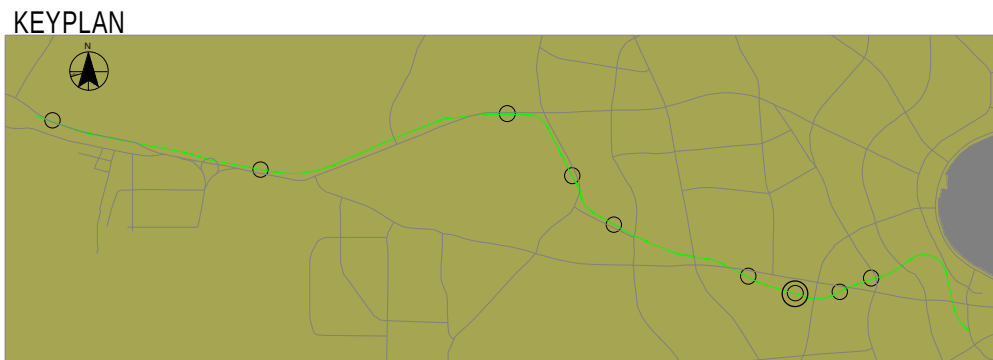
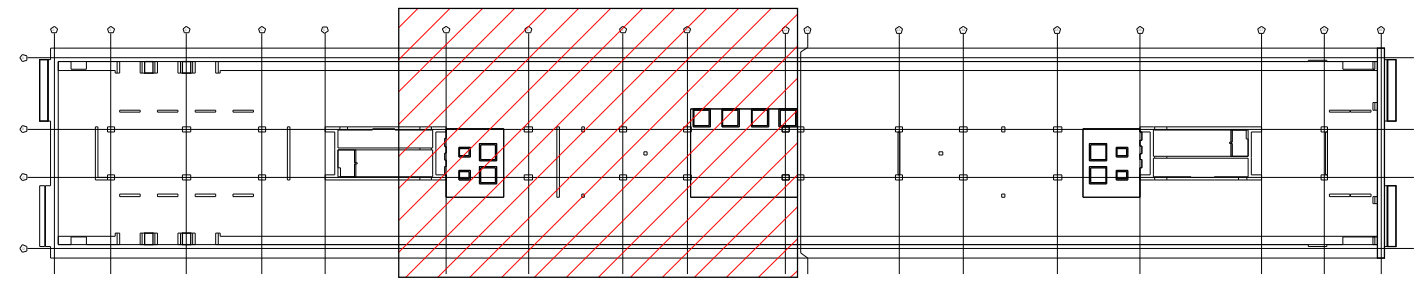
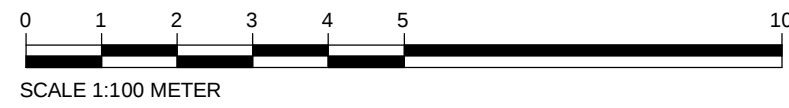
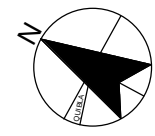


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LEGENDS / ABBREVIATIONS		
ABBREVIATIONS	DESCRIPTIONS	
	FDC	FIRE DEPARTMENT CONNECTION
	SPR	SPRINKLER PIPE
	FPA	FIRE PREACTION SPRINKLER PIPE
	FTD	FIRE TEST DRAIN PIPE
	FSP	FIRE STAND PIPE
	FMP	FIRE MAIN PIPE
		RECESSED PENDENT SPRINKLER K-5.6 (68 DEG. QR, STD COVERAGE)
		UPRIGHT SPRINKLER K-5.6 (68 DEG. QR, STD COVERAGE)
	FHC	FIRE HOSE CABINET
	ZCV	ZONE CONTROL VALVE
		ELBOW GOING UP
		ELBOW GOING DOWN
		PIPE RISER
	MGV	MOTORIZED GATE VALVE
	BOP	BOTTOM OF PIPE
	CGS	CLEAN GAS SUPPRESSION PIPE
	UP	PIPE OFFSET UP
	DN	PIPE OFFSET DN
	T/A	TO ABOVE
	F/A	FROM ABOVE
	T/B	TO BELOW
	F/B	FROM BELOW
	RN	RISER NIPPLE

- NOTES
- ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED.
 - THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS AND PROJECT SPECIFICATIONS.
 - FIRE FIGHTING PIPE, FITTINGS AND ALL ITEMS SHALL BE UL/FM AND QCCD APPROVED.
 - SPRINKLER PIPING SHALL BE SUPPORTED INDEPENDENTLY OF THE CEILING SHEATHING.
 - WHERE SPRINKLER PIPING IS INSTALLED BELOW DUCTWORK, PIPING SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE SEPARATELY.
 - THERE SHALL NOT BE LESS THAN ONE HANGER FOR EACH SECTION OF PIPE. THE DISTANCE BETWEEN A HANGER AND THE CENTERLINE OF AN UPRIGHT SPRINKLER SHALL NOT BE LESS THAN 76 MM.
 - RISERS SHALL BE SUPPORTED BY PIPE CLAMPS OR BY HANGERS LOCATED ON THE HORIZONTAL CONNECTIONS WITHIN 600 MM OF THE CENTERLINE OF THE RISER.
 - DISTANCE BETWEEN SUPPORTS FOR RISER IN VERTICAL SHAFTS OR HIGH BAY AREAS SHALL NOT EXCEED 7.6 M.
 - HOSE REELS AND HOSES SHALL BE INSTALLED IN LOCATIONS AS STATED IN THE PROJECT DOCUMENTATION UNLESS OTHERWISE DIRECTED BY THE CIVIL DEFENSE DEPARTMENT.
 - PIPE WORK UP TO AND INCLUDING 50MM IN DIAMETER SHALL HAVE MALLEABLE IRON THREADED FITTING.
 - ALL CONNECTIONS TO EQUIPMENT ARE VIA DISMANTLING DIELECTRIC UNIONS AND PIPE WORK OVER 50MM IN DIAMETER SHALL BE JOINED BY PROPRIETARY GROOVED JOINTING SYSTEM AND FLANGED JOINTS AT COMPONENT AND EQUIPMENT CONNECTIONS.

REFERENCES:

M008-ARC-MD3-GWST050-CL-00101.S4.P7
M008-ARC-MD3-GWST050-ZZ-00101.S4.P11
M008-HLQ-MEP-MD3-GWST050-PL-00101.RVT
M008-SSF-ARC-MD3-GWST050-CL-00301.S3.P16
M008-SSF-ARC-MD3-GWST050-ZZ-00101.S3.P19
M008-SSF-STR-MD3-GWST050-CL-00301.S3.P14
M008-SSF-STR-MD3-GWST050-ZZ-00101.S3.P24

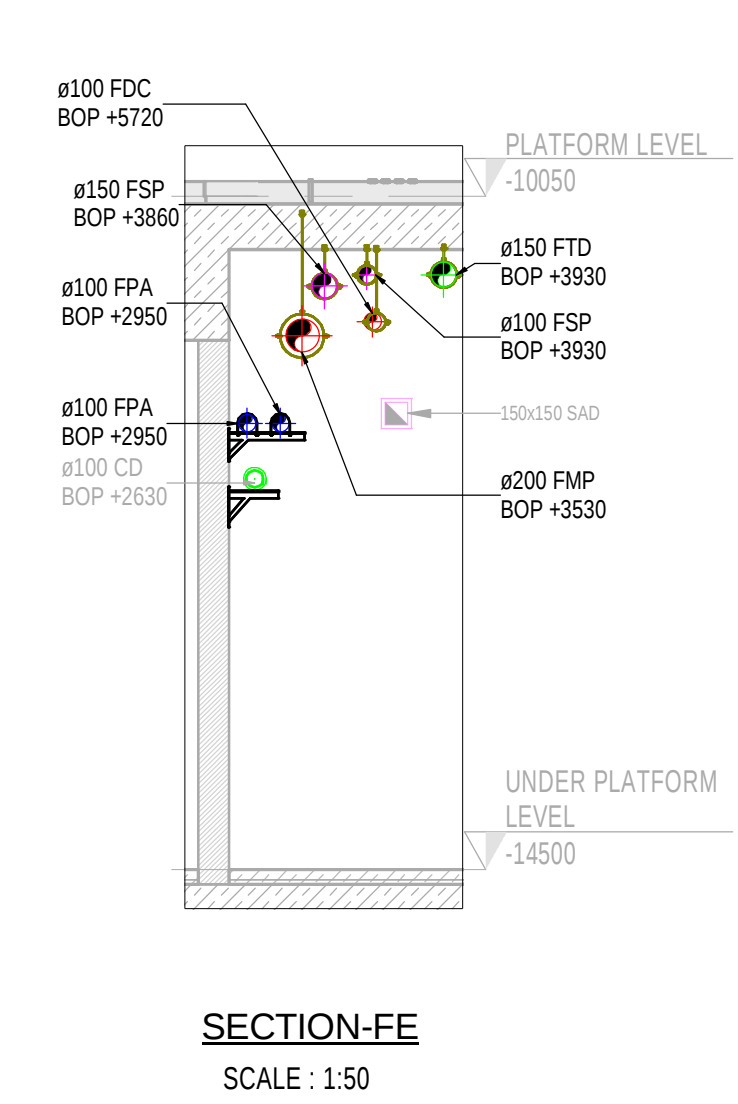
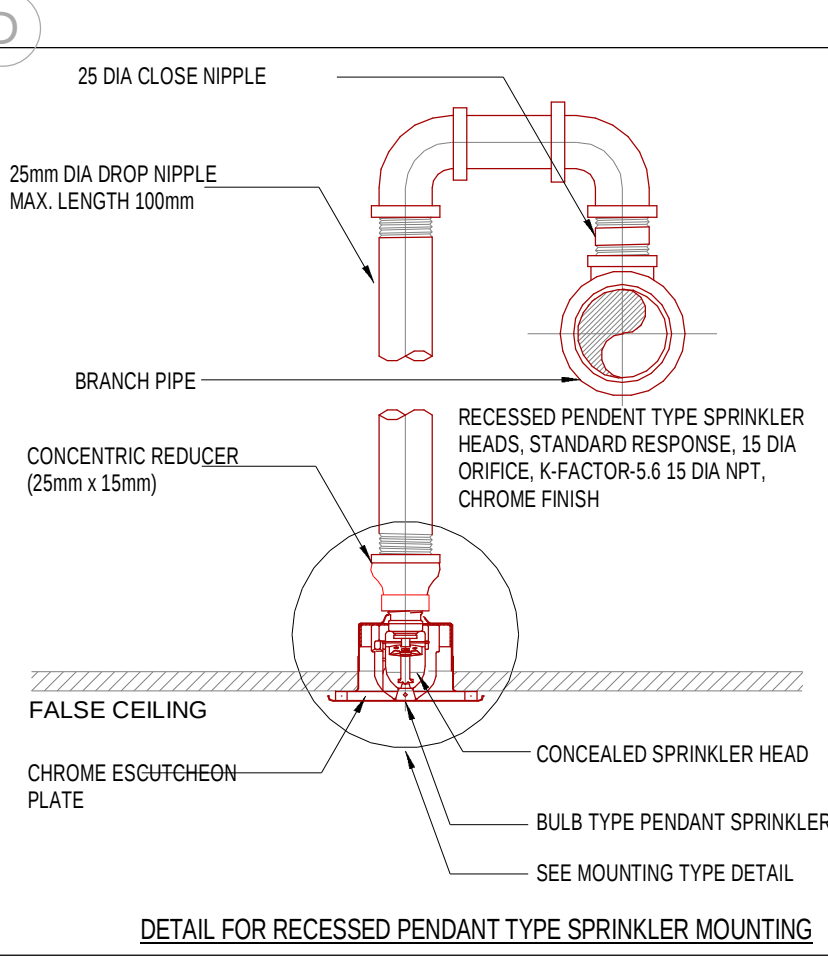
SCHEMATICS AND DETAIL INSTALLATION REFERENCES :

M008-RGP-FRS-DWG-GWST050-AA-10031-35
M008-HLQ-FRS-DWG-GWST050-AA-10001-02

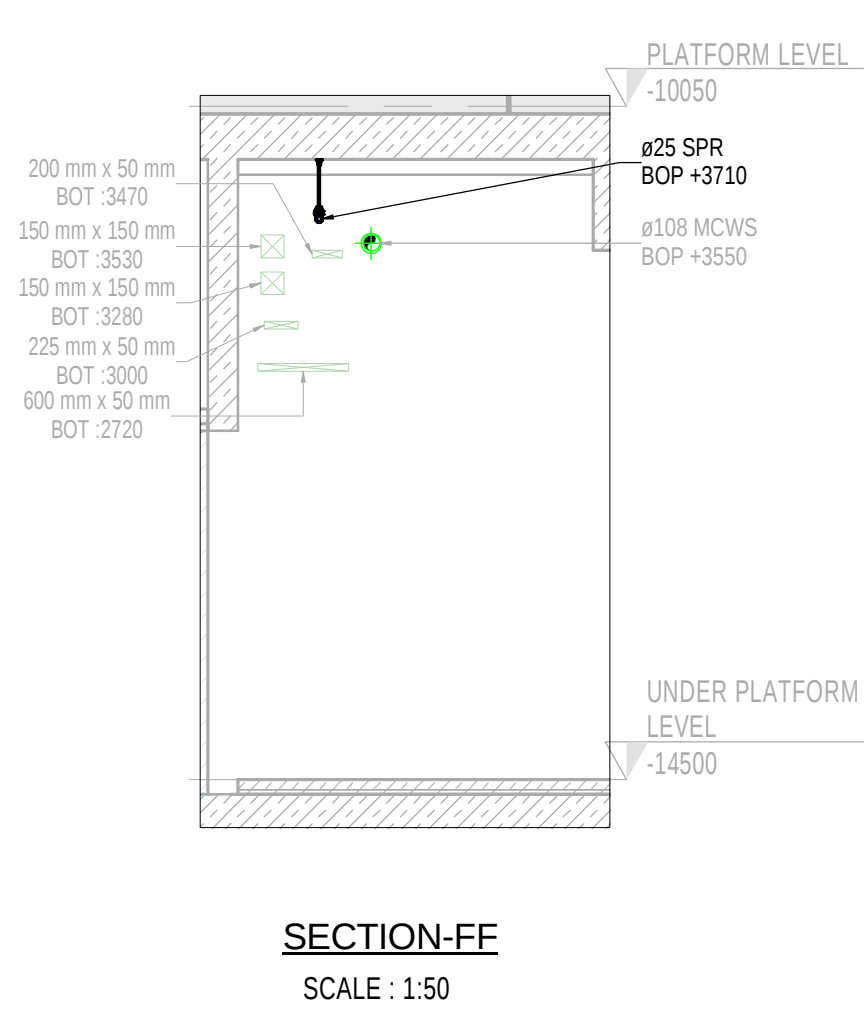
SHOP DRAWINGS STATION - AL RAYYAN / AL QADEEM UNDER PLATFORM LEVEL -
FIRE PROTECTION SERVICES (STATION CENTRAL WEST)

SCALE : 1:100

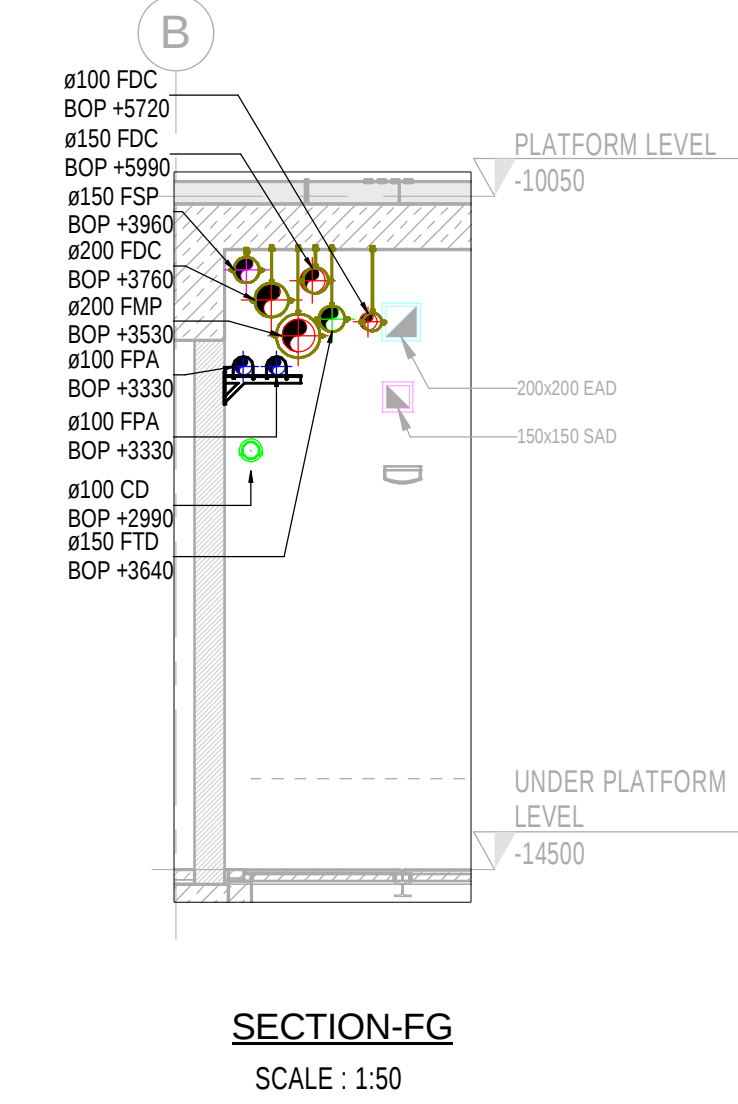
DETAILS OF FIRE PIPE HANGERS AS PER NFPA					
PIPE SUPPORT SCHEDULE				ROD & ANCHOR SCHEDULE	
ITEM	PIPE SIZE	MAXIMUM SPACING BETWEEN SUPPORTS	MAXIMUM SPACING OF SUPPORTS TO A SPRINKLER	THREADED ROD SIZE	EXPANSION ANCHOR SIZE
1	250	3.7 m	0.90 m	M10	M10
2	320	3.7 m	1.20 m	M10	M10
3	400	4.6 m	1.50 m	M10	M10
4	500	4.6 m	1.50 m	M10	M10
5	650	4.6 m	1.50 m	M10	M10
6	800	4.6 m	1.50 m	M10	M10
7	1000	4.6 m	1.50 m	M10	M10
8	1250	4.6 m	1.50 m	M12	M12
9	1500	4.6 m	1.50 m	M12	M12
10	2000	4.6 m	1.50 m	M12	M12
11	2500	4.6 m	1.50 m	M16	M16
12	3000	4.6 m	1.50 m	M16	M16



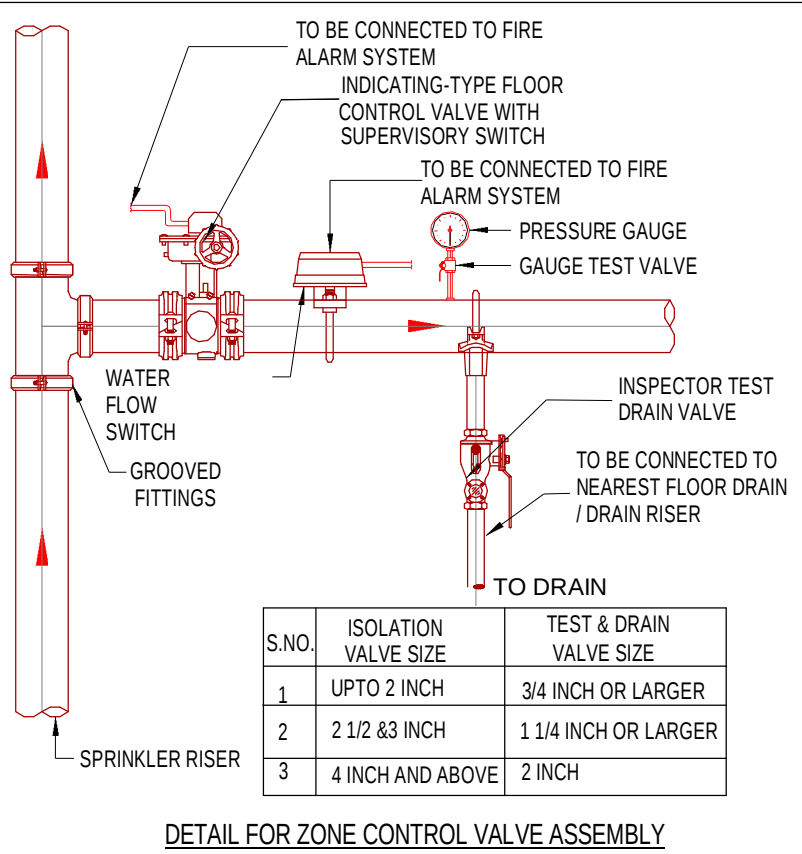
SECTION-FE
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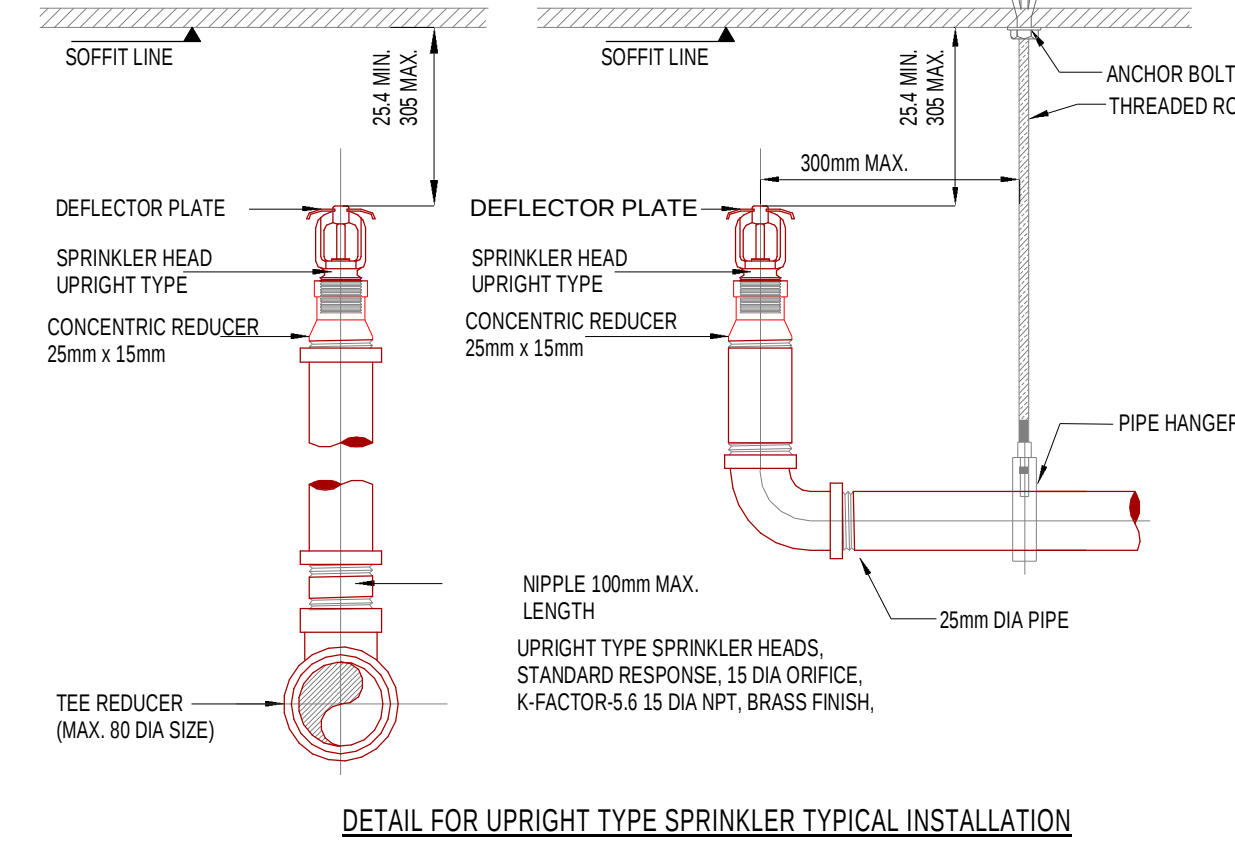
SECTION-FF
SCALE : 1:50



SECTION-FG
SCALE : 1:50



S.NO.	ISOLATION VALVE SIZE	TEST & DRAIN VALVE SIZE
1	UPTO 2 INCH	3/4 INCH OR LARGER
2	2 1/2 INCH	1 1/4 INCH OR LARGER
3	4 INCH AND ABOVE	2 INCH



PROJECT

**DESIGN & BUILD PACKAGE 4
GREEN LINE UNDERGROUND**

TITLE

SHOP DRAWINGS STATION - AL RAYYAN / AL QADEEM UNDER PLATFORM LEVEL -
FIRE PROTECTION SERVICES (STATION CENTRAL WEST)

CLIENT

QATAR RAILWAYS COMPANY
P.O. BOX 29988 DOHA
QATAR

DRAWING NUMBER

M008-RGP-FRS-DWG-GWST050-UL-10003

REV

C2