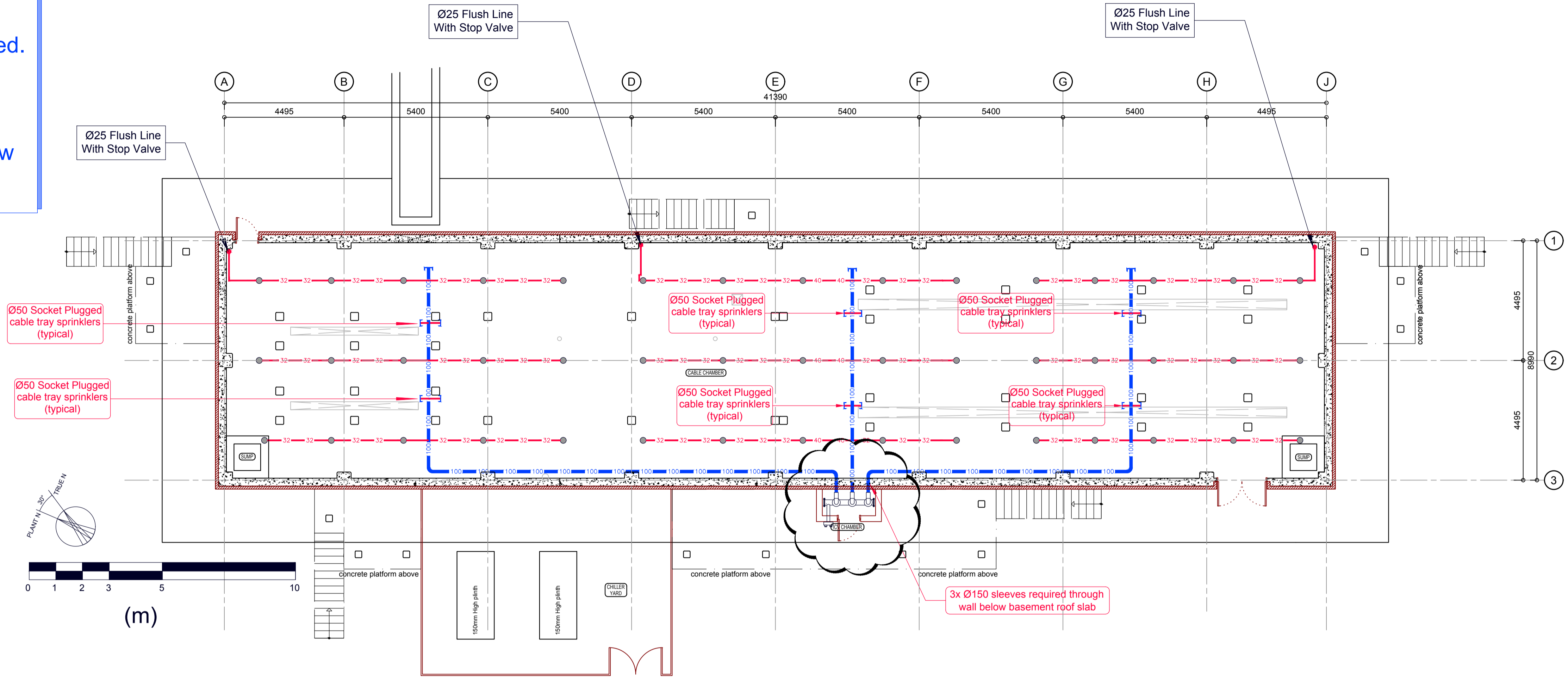


NOTE:

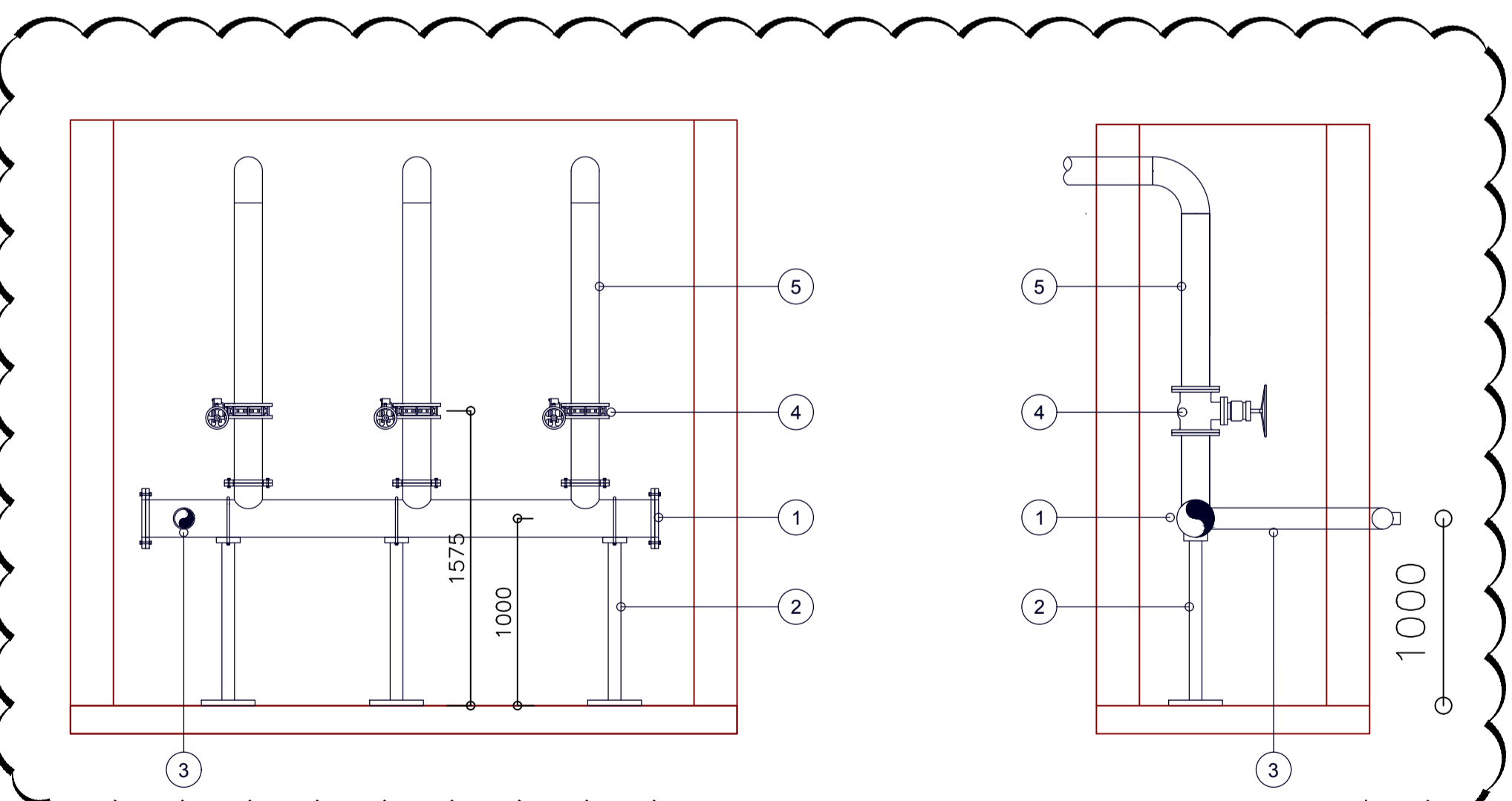
Sprinkler Pipes NOT to be Galvanized. Painted Only According to Standard Eskom Paint Specification.

Sprinkler System Is Designed for Low Expansion Foam As Well As Water.



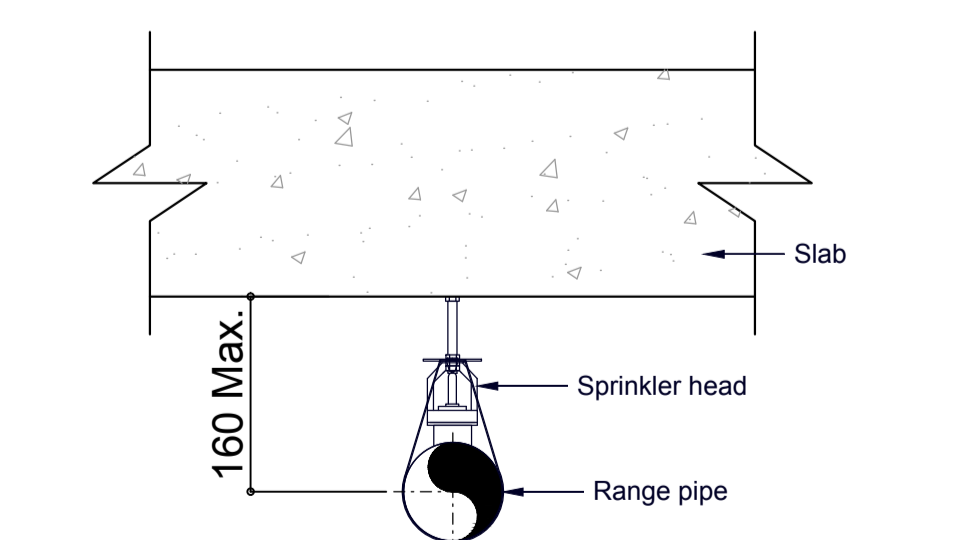
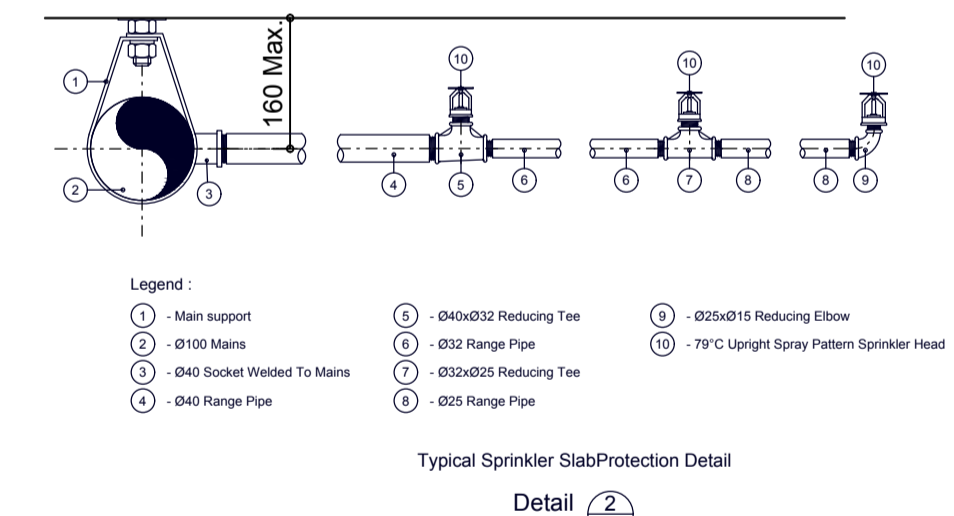
DESIGN NOTES:

- THE DESIGN DENSITY OF DISCHARGE = 12.5mm/min OVER 232m² AS PER NFPA 850
- AS THIS IS A DRY PIPE SYSTEM WITH NO FIRE WATER SUPPLY, RELYING ON FIRE DEPARTMENT INTERVENTION THE FOLLOWING IS PROPOSED:
 - MAXIMUM OPERATION PER SUB SYSTEM IS 15 HEADS.
 - AT 12.5mm/min OVER 232m² THUS A DRY PIPE SYSTEM COMPUTES TO 12.5mm/min OVER 290m²
 - THE TOTAL AREA IS 372m², DIVIDED INTO 3 OFF 124m² VALVE SETS. THE DESIGN THUS WILL INCLUDE 2 FULL SYSTEMS IN OPERATION.
- THE REACTION TIME OF THE FIRE BRIGADE IS CRITICAL TO THE WATER REQUIREMENT:
 - A QUICK RESPONSE TIME WILL REQUIRE ONLY ONE SYSTEM IN OPERATION, THUS 1990 l/min @ 385 kPa
 - TWO SYSTEMS WILL REQUIRE: 3910 l/min @ 392 kPa.
 - THREE SYSTEMS WILL REQUIRE: 5780 l/min @ 397 kPa.



LEGEND:

- ① Ø200 Manifold (Dry Pipe)
- ② Manifold Pipe Support
- ③ Ø100 Booster Line To External Twin Boosters
- ④ Ø100 Isolation Valve
- ⑤ Ø100 Dry System Riser



NOTE: Threaded Rod To Touch OD of Range Pipe for Stability

Legend:
● - 79°C Upright Spray Pattern Sprinkler Head (45off)

ISSUED FOR CONSTRUCTION

003	02	19/08/16	ICV CHAMBER PIPING DETAILS UPDATED	JL	PS	DvdM	-	-	-
002	01	05/03/14	LATEST ARCHITECTURE OVERLAIN; DETAIL REVISED	JL	PS	DvdM	-	-	-
001	00	03/04/12	ISSUED FOR CONSTRUCTION	JL	JJ	JJ	-	-	-
D.O.	REV	DATE	INDEX REFERENCE	REV BY	CHD BY	AUTH BY	KKS APP	REFERENCE DRAWINGS	
DRG REGISTR			AUTHORISED FOR ESKOM BY			DATE			
DESIGN APPROVED	DvdM		M. ANDRE			03/04/12			
KKS APP									
DO AUTH	DvdM								
CHD BY	PS								
DRAWN BY	JL								
SCALE	1:100								

**MEDUPI POWER STATION
RAW WATER RESERVOIR SUB-STATION
CABLE VAULT
SPRINKLER PROTECTION LAYOUT**

8038-SP-RWRPSUB-4CV

0.84/31102

SHEET	REV
2	2