

LUNSAN IN ADALAH HAKPIRA JURUTERA  
Konsultor berlesen di bawah Akta Jurutera (1967) dan berdaftar dengan Lembaga Jurutera Malaysia (BEREg).  
di bawah dan selaras dengan undang-undang yang berkaitan dengan latihan dan pengawasan jurutera.  
melalui sistem sokongan-pengetahuan dan teknologi.

NOTES:-

1. ALL DIMENSIONS ARE IN MILLIMETRE AND LEVELS ARE IN METRE UNLESS OTHERWISE STATED.
2. ALL CONCRETE TO BE GRADE 25 UNLESS OTHERWISE STATED.
3. ALL REINSTATEMENTS SHALL BE SUBJECT TO LOCAL AUTHORITY/ COUNCIL'S TECHNICAL REQUIREMENTS AND APPROVAL CONDITIONS.
4. PAVEMENT SHOULD BE CUT SQUARE BY APPROVED CUTTER.
5. R.C SLAB SHOULD BE DESIGN BY APPROVED STRUCTURAL ENGINEER. THE DESIGN SHALL BE IN ACCORDANCE WITH THE TECHNICAL REQUIREMENTS IN TERMS OF PAVEMENT LOADINGS, PIPE SIZE AND MATERIAL.

TAKIR PERLEK  
CADANGAN PENGANTIAN SALURAN PAIR AIR UTAMA JENIS HDPE SERTA KERJA-KERJA BERKAITAN DI KOLEJ MARA (KM)  
BANTING, SELANGOR DARUL EHSAN  
UNTUK TUJUAN  
MALIS AMANAH RAKYAT (MARA)

REKALK :



MALIS AMANAH RAKYAT (MARA)

No 21, Jin Raja Laut, Chow Kit,  
No 8-38, Jalan UP 1/1, Ulu Yam Perdoma,  
Wilayah Persekutuan Kuala Lumpur  
MARA Hotline : 03-26132000

JURUTERA STRUKTUR & STAIL :

PAKATAN RUNDING  
ZAIN SPENCER SDN BHD  
34-B, Jalan SG 3/2,  
Pusat Bdr Sri Gombak,  
68100, Batu Caves,  
Selangor Darul Ehsan  
Tel: 03-222 2228  
Email : pak.runding@comcast.my

I HEREBY CERTIFY THAT THESE WORKS HAS BEEN DESIGNED BY ME IN ACCORDANCE WITH SOUND ENGINEERING PRACTICE AND THAT I TAKE FULL RESPONSIBILITY FOR THE DESIGN AND PROPER PERFORMANCE OF THE SAME

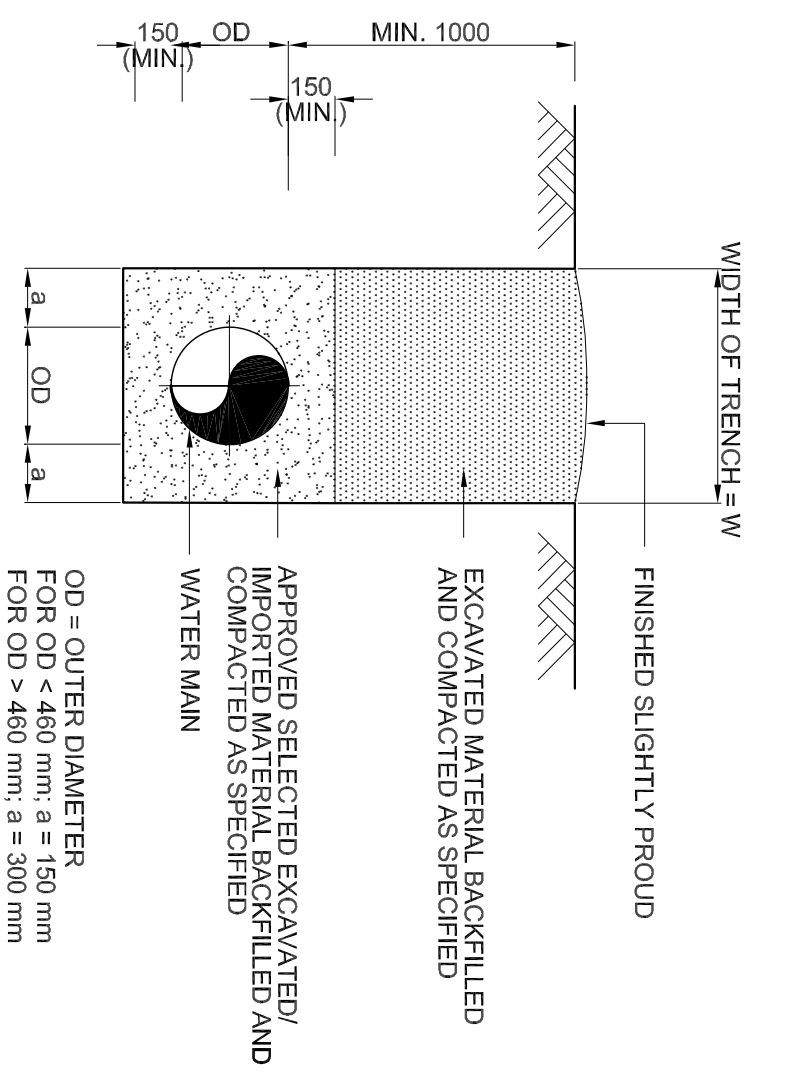
JURUTERA MEKANIKAL & ELEKTRIKAL :

DFR CONSULT SDN. BHD.  
(BERH REG. NO: 1605 B/C) (13249272)  
NO 8-38, JALAN UP 1/1, ULU YAM PERDOMA,  
68000, AMPANG SELANGOR DARUL EHSAN  
TEL : 03-222 2228  
Email : dfrconsult@gmail.com

ASRI QS CONSULT  
No 49, Jalan SS 3/10, Taman Sri Gemilak,  
68100 Batu Caves, Selangor Darul Ehsan  
TEL : 03-6186 8460  
E-mail : asriqsconsult@gmail.com

RETIKULASI BEKALAN AIR  
- PERINCIAAN (1)

|                 |                    |             |            |
|-----------------|--------------------|-------------|------------|
| TARIKH          | : 2026             | SKALA       | : AS SHOWN |
| DILUKIS OLEH    | : AZRI             |             |            |
| DISEKAI OLEH    | : IR SPENCER KLUWA |             |            |
| DILULUSKAN OLEH | : IR SPENCER KLUWA |             |            |
| TG LUKSIAN :    | PRZS(159-25)-KM    | Banting-003 |            |

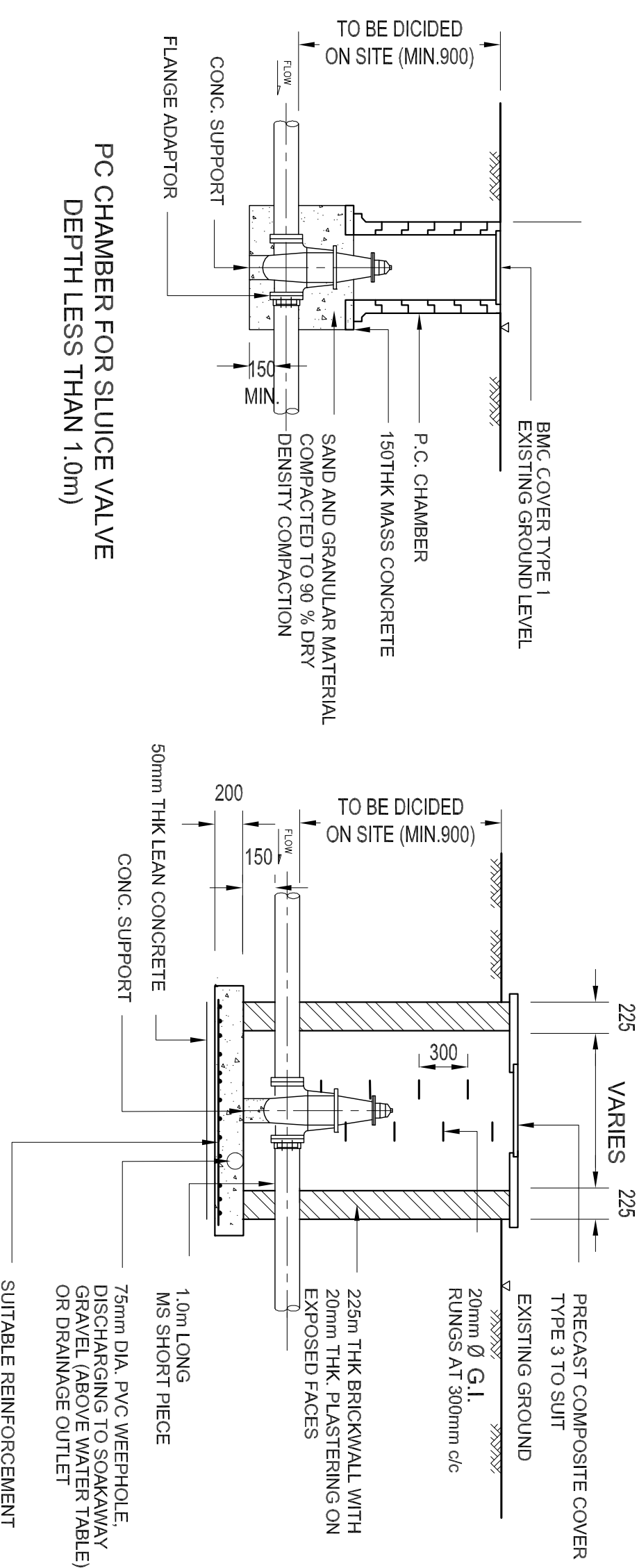


NORMAL TRENCH FOR SINGLE PIPE

PIPE UNDER ROAD PAVEMENT OR TRACK

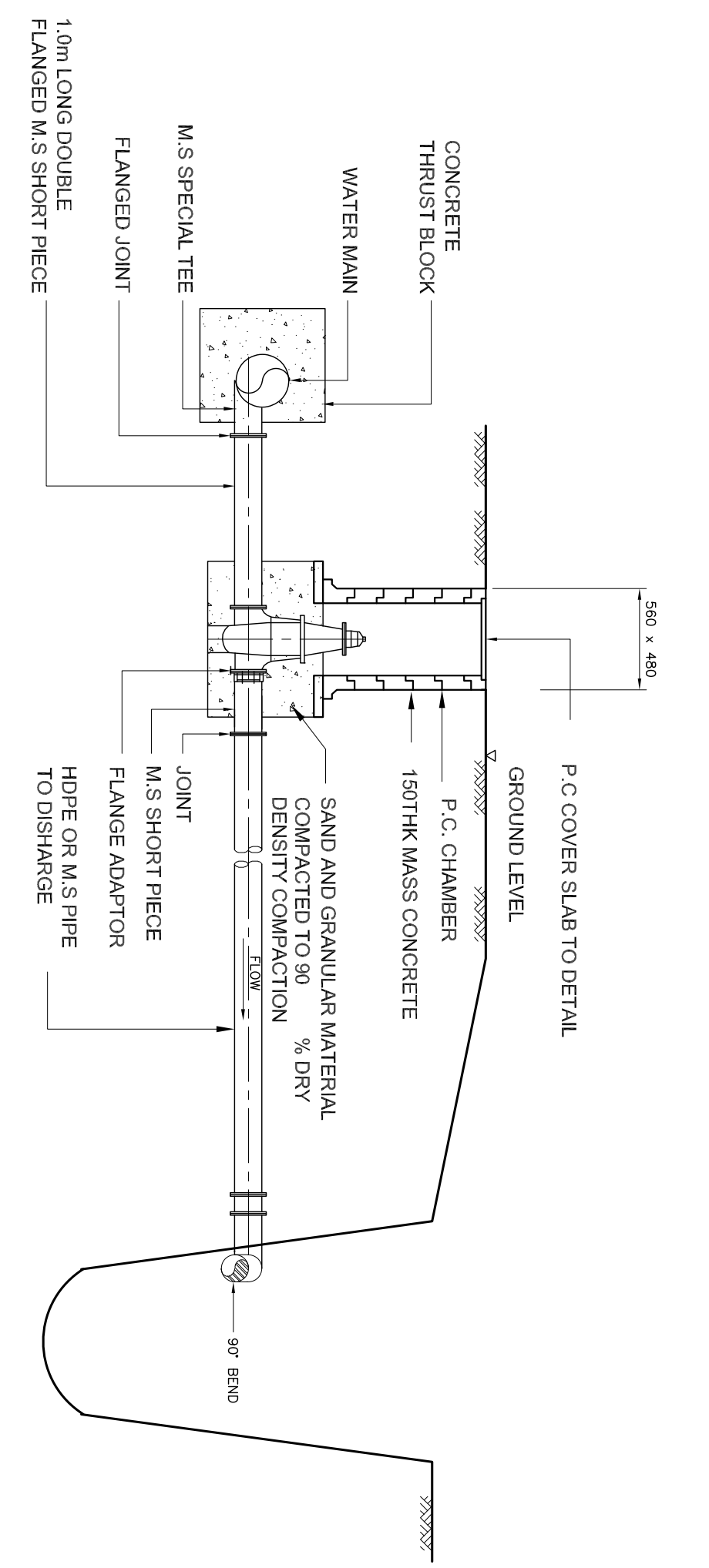
CONC. SURROUND FOR PIPE WITH INSUFFICIENT COVER, UNDER ROAD OR DRAIN

PC CHAMBER FOR SCOUR VALVE DEPTH 1m TO 1.5m

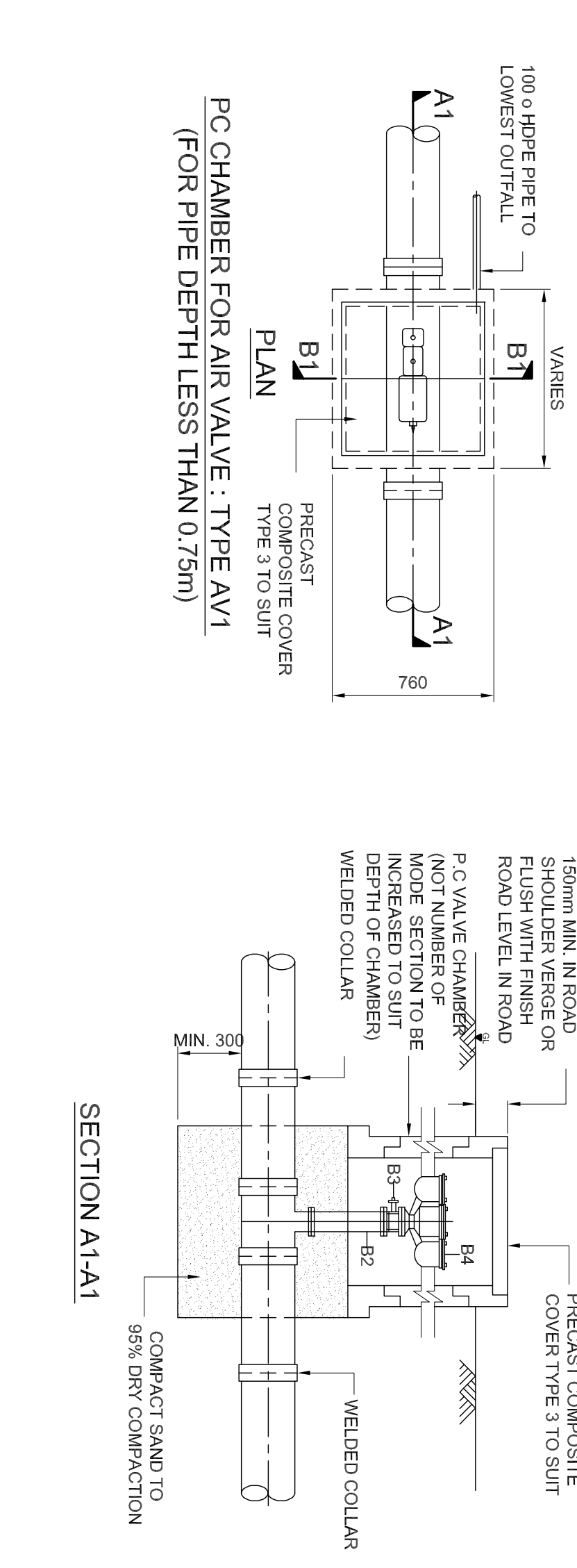


PC CHAMBER FOR SLUCE VALVE DEPTH LESS THAN 1.0m)

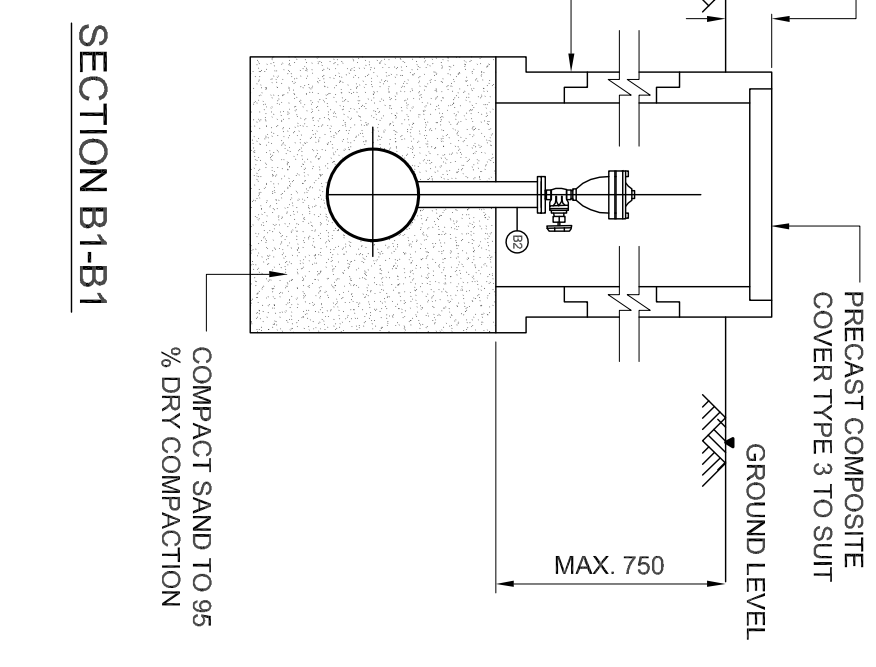
BRICK CHAMBER FOR SLUCE VALVE (FOR PIPE DEPTH 1m TO 1.5m)



PC CHAMBER FOR SCOUR VALVE DEPTH LESS 1m

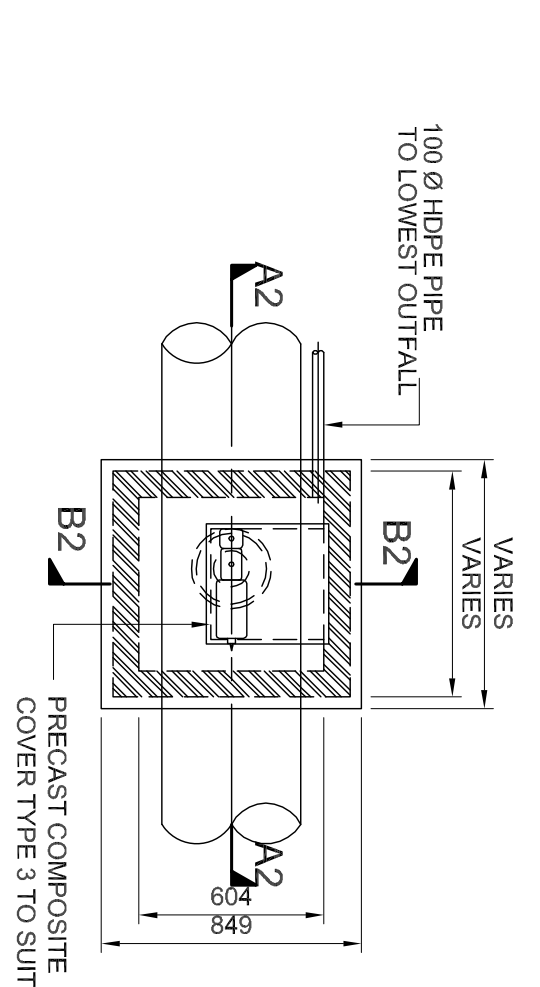


SECTION A1-A1



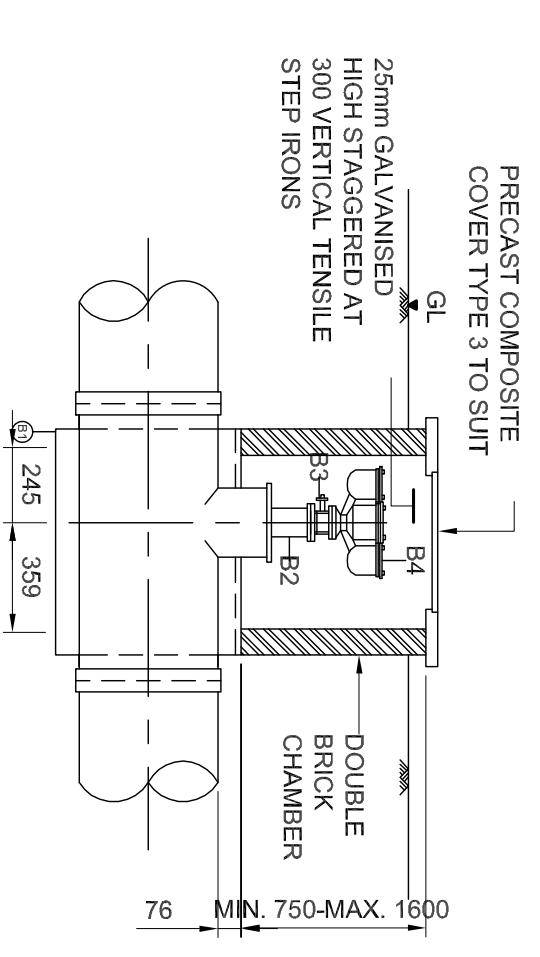
SECTION B1-B1

| ITEM NO. | DESCRIPTION                                                                    |
|----------|--------------------------------------------------------------------------------|
| B1       | CONCENTRIC TEE: X mm DIA. FLANGE ENDED BRANCH ON Ymm P.I.D. PLAIN ENDED BARREL |
| B2       | Xmm DIA. x 250mm LONG WITH ONE END TO SUIT MS FLANGE PIPE                      |
| B3       | Xmm DIA. DOUBLE FLANGED BUTTERFLY VALVE                                        |
| B4       | Xmm DIA. x 450mm LONG P/E SHORT PIECE                                          |
| B5       | FLANGED ENDED TO SUIT                                                          |
| B6       | Xmm DIA. PLAIN ENDED SHORT PIPE (LENGTH TO SUIT SITE CONDITION)                |
| B7       | Xmm DIA. COLLAR WELD                                                           |
| B8       | 90° PLAIN ENDED BEND TO SUIT 300mm DIA. PIPE                                   |

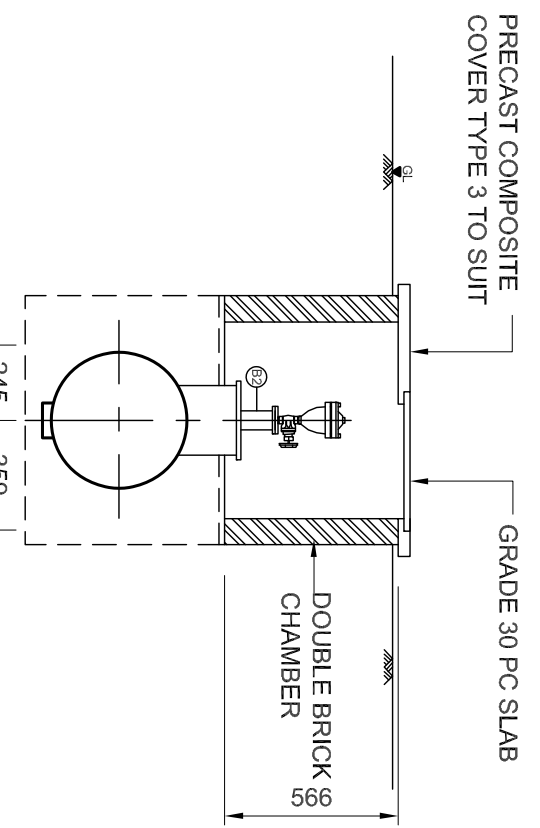


PLAN

BRICK CHAMBER FOR AIR VALVE : TYPE AV2 (FOR PIPE DEPTH 1m TO 1.5m)



SECTION A2-A



SECTION B2-B2