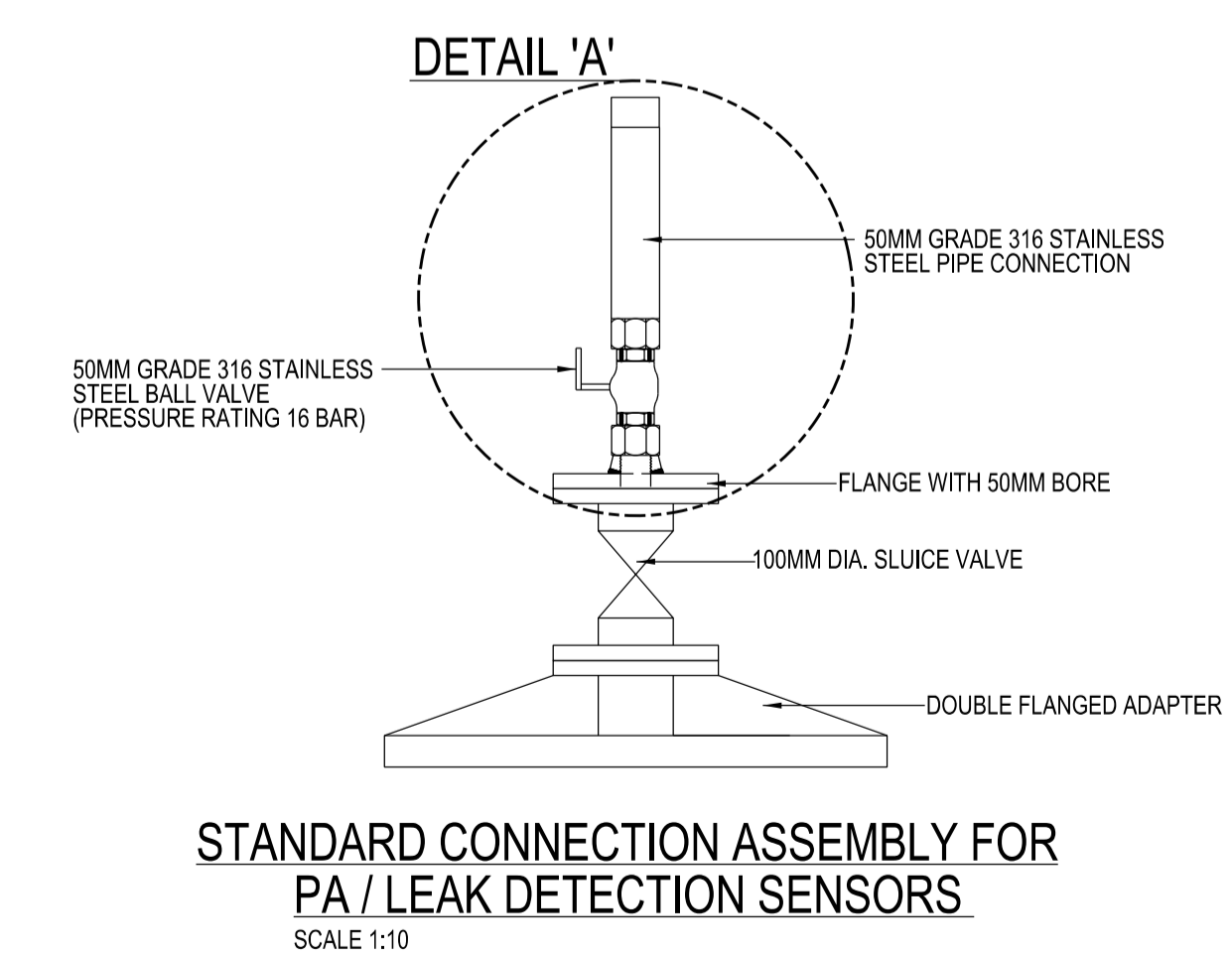
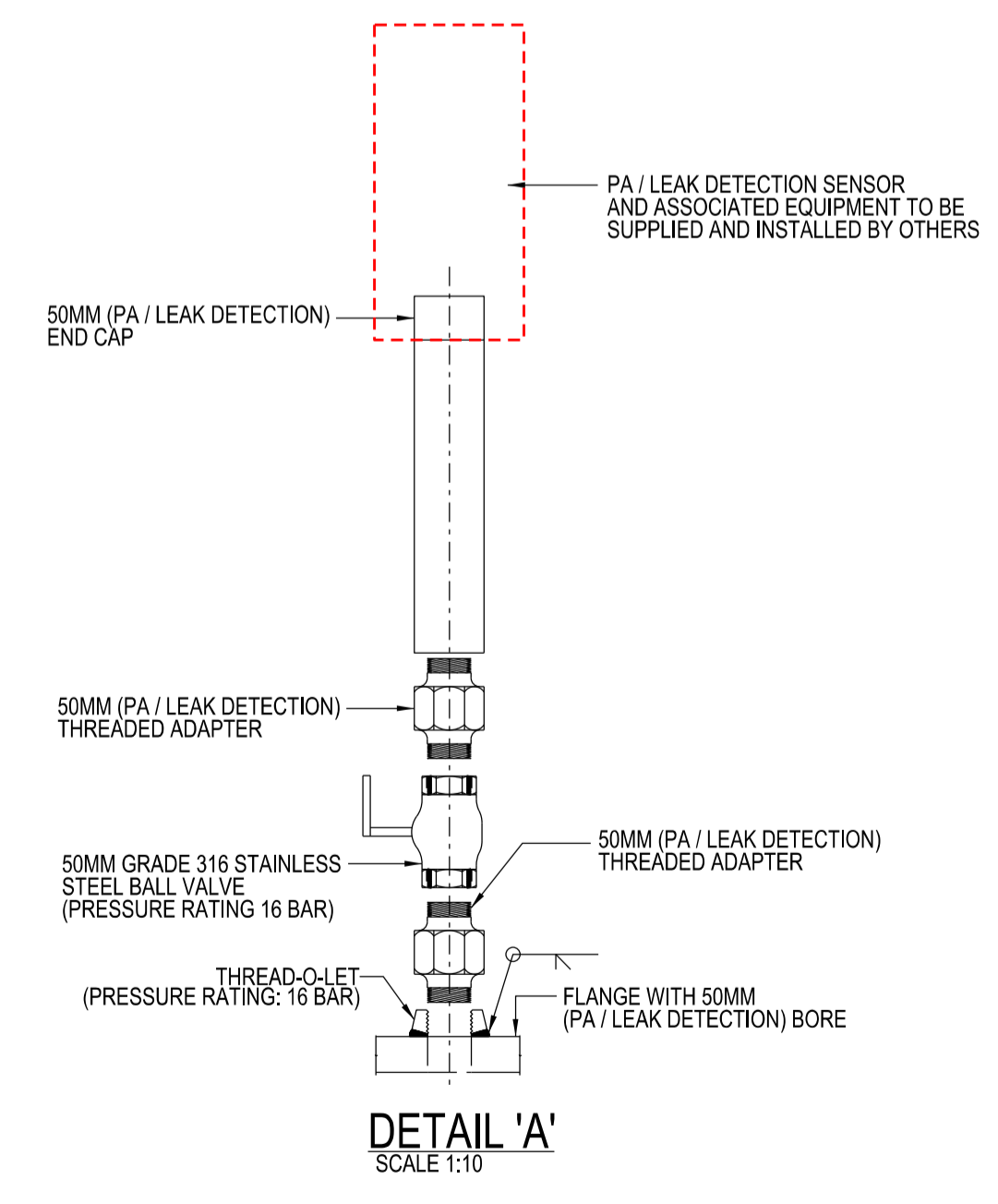


TABLE 1: ACCESS MANHOLE CHAMBER

PIPE NOM. DIA. (MM)	RADIAL OFFTAKE / TEE DIA. (MM)	PRECAST R.C PIPE DIA. (MM)	DOUBLE FLANGED ADAPTER (MM)	INTERVAL ALONG PIPELINE (M)
700	700 (TEE)	1500	700X100	100
800	800 (TEE)	1500	800X100	100
900	800 (TEE)	1500	800X100	100
1200	800 (TEE)	1500	800X100	200
1400	800 (TEE)	1500	800X100	200
1600	800 (RADIAL OFFTAKE)	1500	800X100	300
1800	800 (RADIAL OFFTAKE)	1500	800X100	300
1900	800 (RADIAL OFFTAKE)	1500	800X100	300
2200	800 (RADIAL OFFTAKE)	1500	800X100	300



STANDARD CONNECTION ASSEMBLY FOR PA / LEAK DETECTION SENSORS  
SCALE 1:10

- NOTES:
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
  - THE CONTRACTOR SHALL REFER TO THE GENERAL NOTES IN DRAWING NO. PUB/WSN/001.
  - LOCATION OF 50MM CONNECTION FOR PRESSURE ACOUSTIC / LEAK DETECTION SENSOR TO BE CONFIRMED ON SITE.
  - ALL CHAMBERS INCLUDING RC. HAUNCHING AND CLADDING SHALL BE DESIGNED AND ENDORSED BY A PROFESSIONAL ENGINEER ENGAGED BY THE CONSULTANT.
  - SAFETY CAGES SHALL BE INSTALLED FOR ALL STAINLESS STEEL LADDERS (GRADE 304) EXCEEDING 3M HEIGHT.
  - ALL MANHOLE COVERS AND FRAME SHALL BE OF HEAVY DUTY DUCTILE IRON TO GRADE A1 UNDER SS30.
    - USE STANDARD HEAVY DUTY DUCTILE IRON (GRADE A1) DOUBLE TRIANGULAR MANHOLE COVER AND FRAME (REFER TO PUB/WSN/STD/204) FOR 600MM DIA. OPENING.
    - USE STANDARD HEAVY DUTY DUCTILE IRON (GRADE A1) MANHOLE COVER AND FRAME FOR VALVE SPINDLE (REFER TO PUB/WSN/STD/219) FOR 260MM DIA. OPENING.
  - UPVC DUCTS SHALL BE INCORPORATED INTO THE CHAMBER WALLS. FOR LAYING OF CABLES, BY OTHERS, THE DUCTS SHALL BE SEALED WITH WATERPROOF SEALING COMPOUND. POSITION OF DUCTS ARE INDICATIVE AND SHALL BE CONFIRMED ON SITE.
  - ASSEMBLY FOR LEAK DETECTION SENSORS ARE TO BE INSTALLED AT NOT MORE THAN 750M C/C ALONG THE PIPELINE. THE LEAK DETECTION SENSORS WILL BE INSTALLED UNDER A SEPARATE CONTRACT.
  - THE CONSULTANT'S P.E. SHALL UNDERTAKE THE DETAILED DESIGN OF THE CHAMBER AND SUBMIT TOGETHER WITH THE ACCREDITED CHECKER (APPOINTED BY THE BOARD) TO SUPERINTENDING OFFICER (S.O.) AND BCA FOR APPROVAL.

ISSUED: SEP 2020	SCALE	DRAWING NO.
LAST REVIEWED: AUG 2021	AS SHOWN	PUB/WSN/STD/103

**TYPICAL ACCESS MANHOLE CHAMBER WITH SENSORS (UP TO 6M DEPTH)**