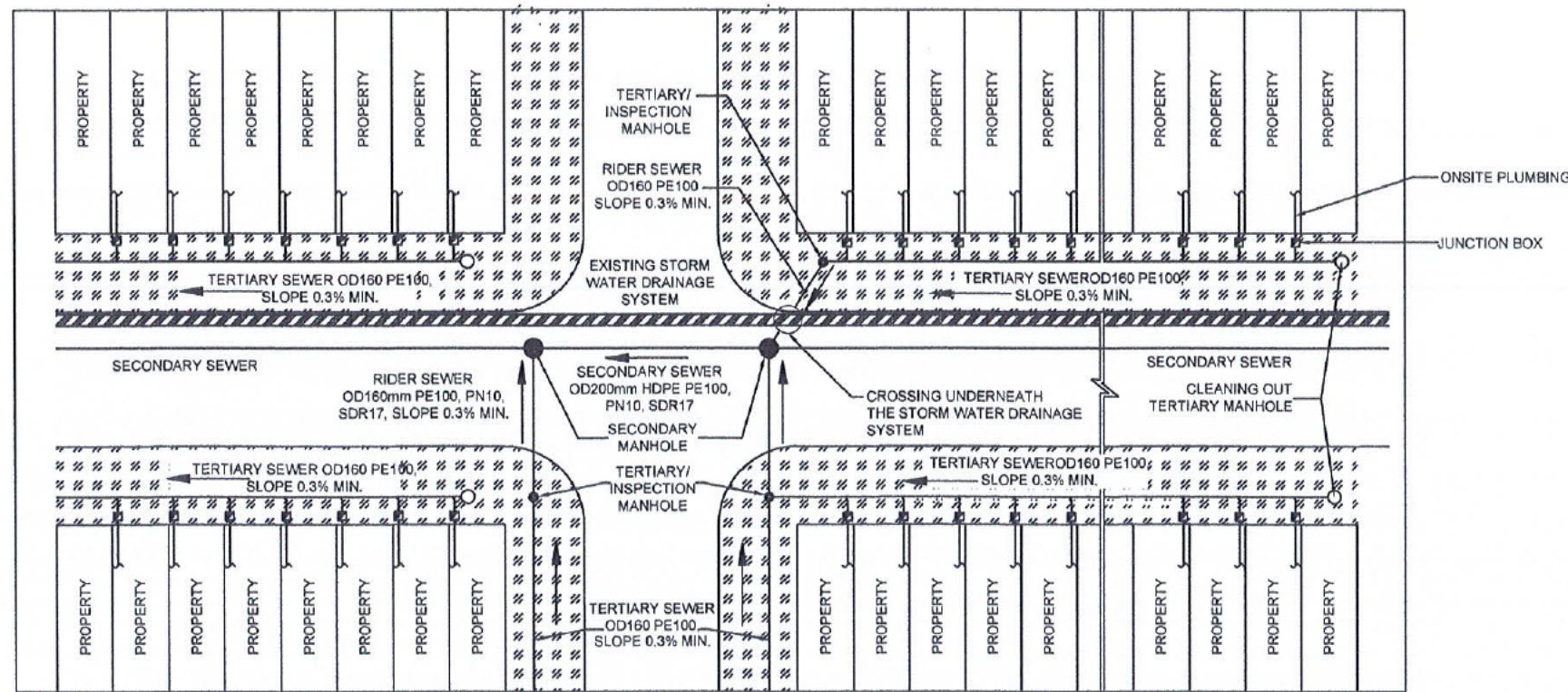




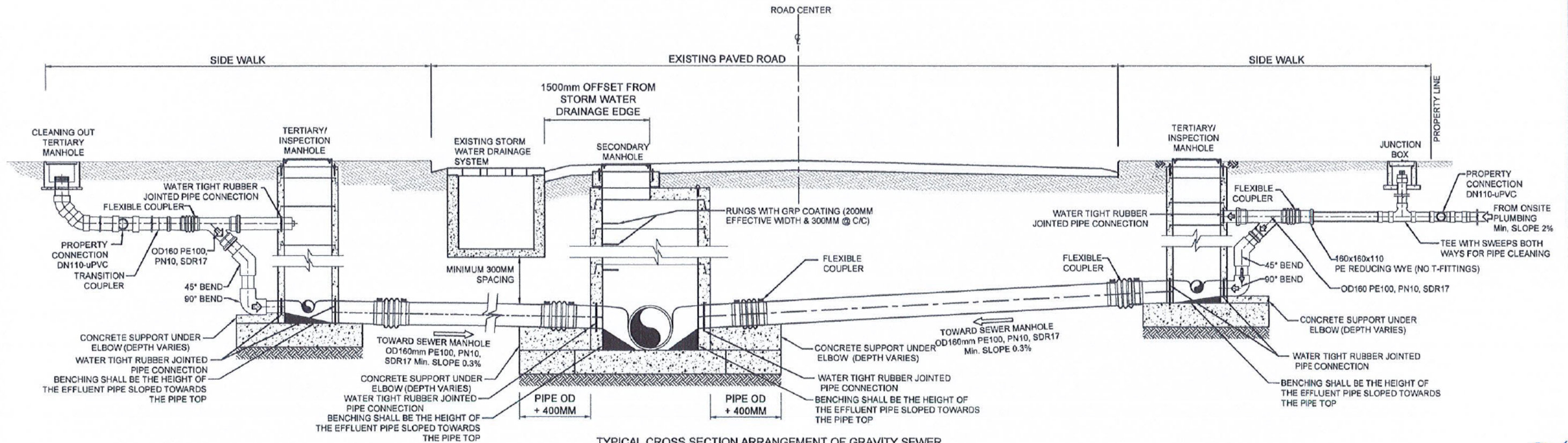
TYPICAL LAYOUT OF GRAVITY SEWER COLLECTION AND PROPERTY CONNECTION TYPE-1

LEGEND

- ROAD
- PRIMARY SEWER/ SECONDARY SEWER (HDPE PE100, PN10, SDR17)
- TERTIARY SEWER (OD 160mm HDPE PE100, PN10, SDR17)
- STORM WATER DRAINAGE SYSTEM
- MANHOLE OF SECONDARY SEWER SYSTEM
- TERTIARY MANHOLE OF TERTIARY SEWER SYSTEM
- CLEANING OUT TERTIARY MANHOLE
- JUNCTION BOX FOR HOUSEHOLD CONNECTION SYSTEM
- ONSITE PLUMBING PIPE

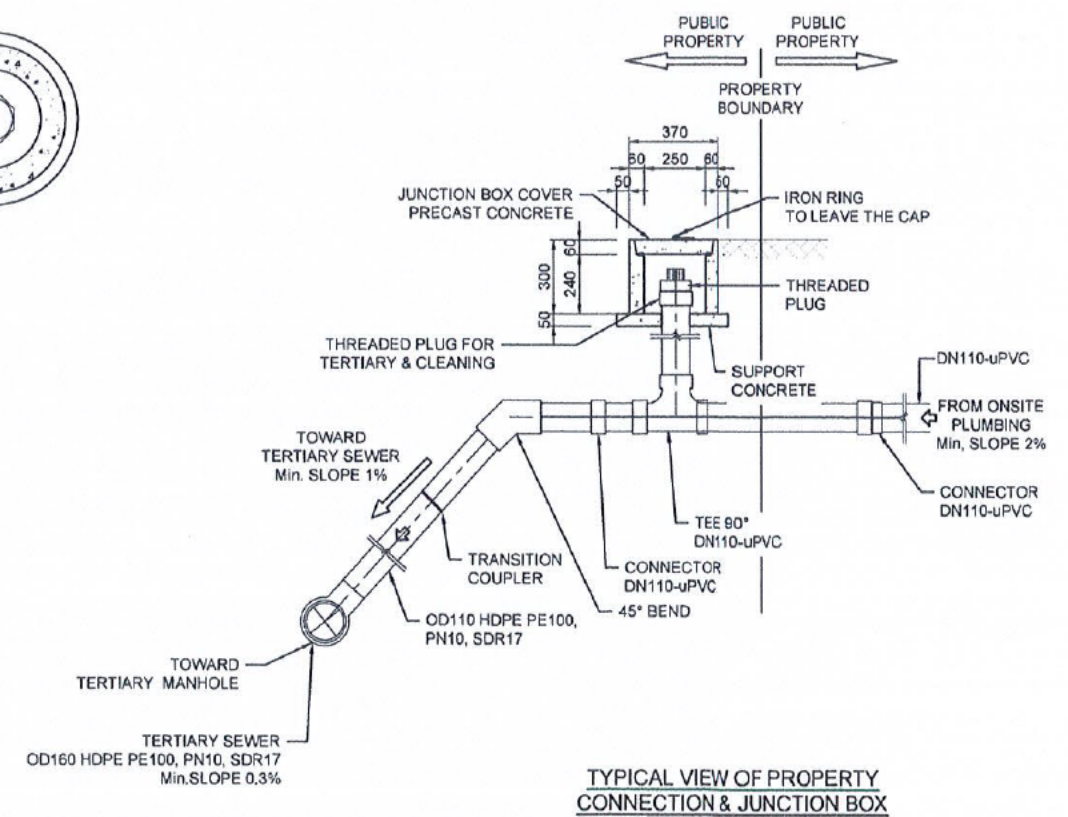
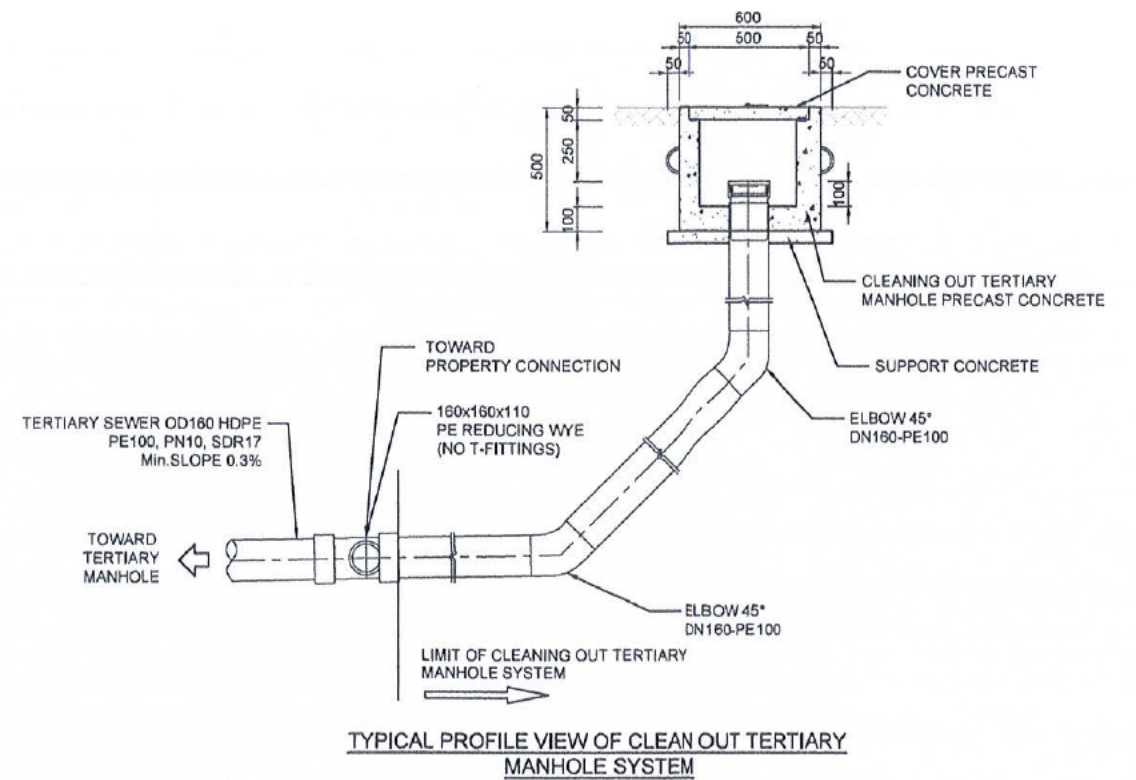
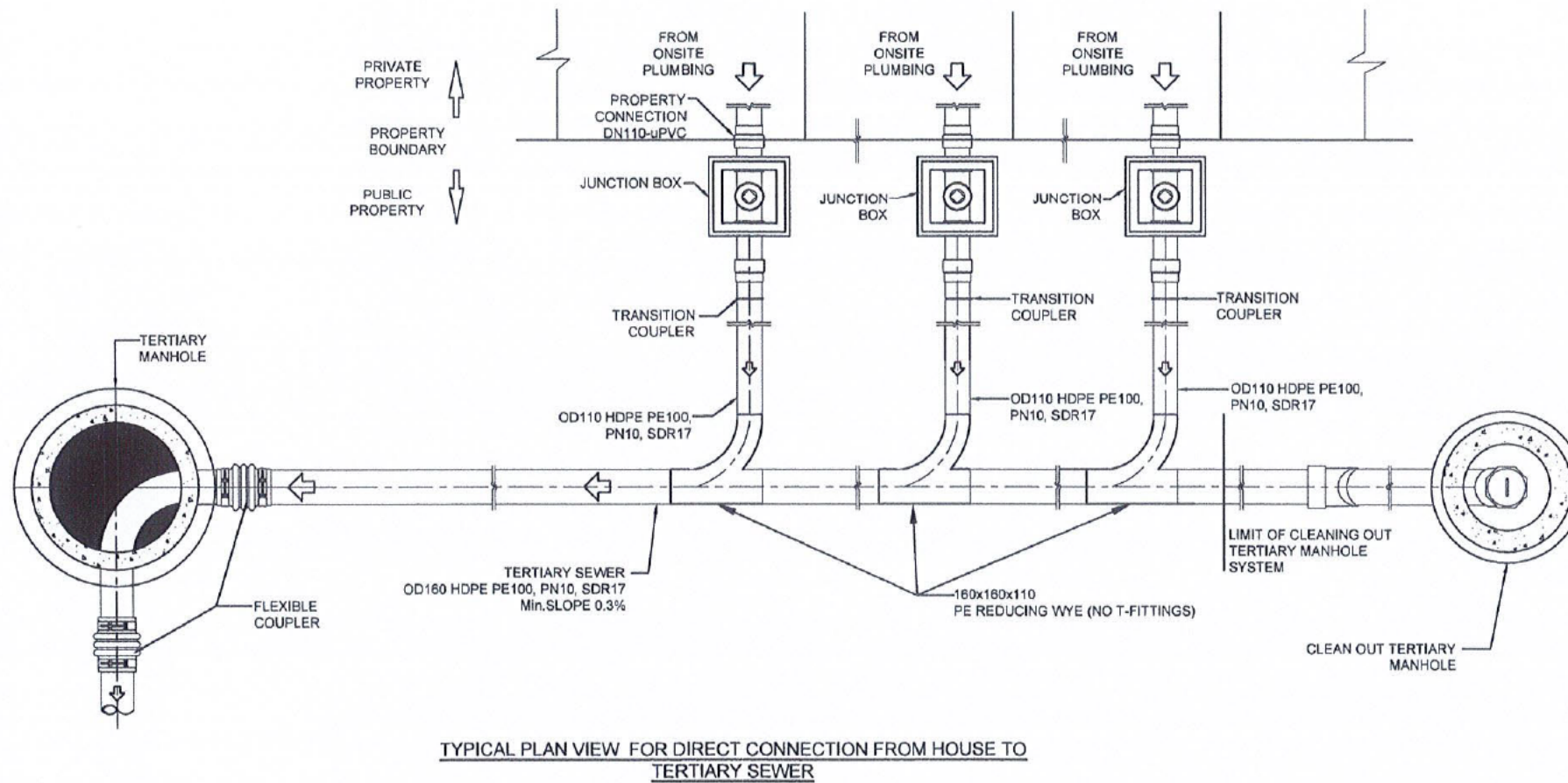
NOTES:

1. ALL DIMENSIONS ARE IN mm.
2. FOUNDING SOIL FOR THE MH MAY BE IMPROVED AT SITE IF THE SOIL IS FOUND TO BE WEAKER TO SUPPORT THE MHS.
3. IF THERE ARE ANY DISCREPANCIES OR AMBIGUITIES ON THE DRAWING CONSULT THE ENGINEER PRIOR TO CONSTRUCTION.



TYPICAL CROSS SECTION ARRANGEMENT OF GRAVITY SEWER COLLECTION AND PROPERTY CONNECTION TYPE-1

Handwritten signature or mark.



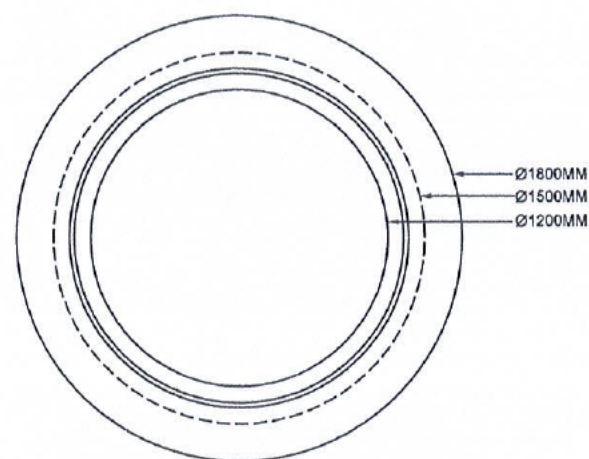
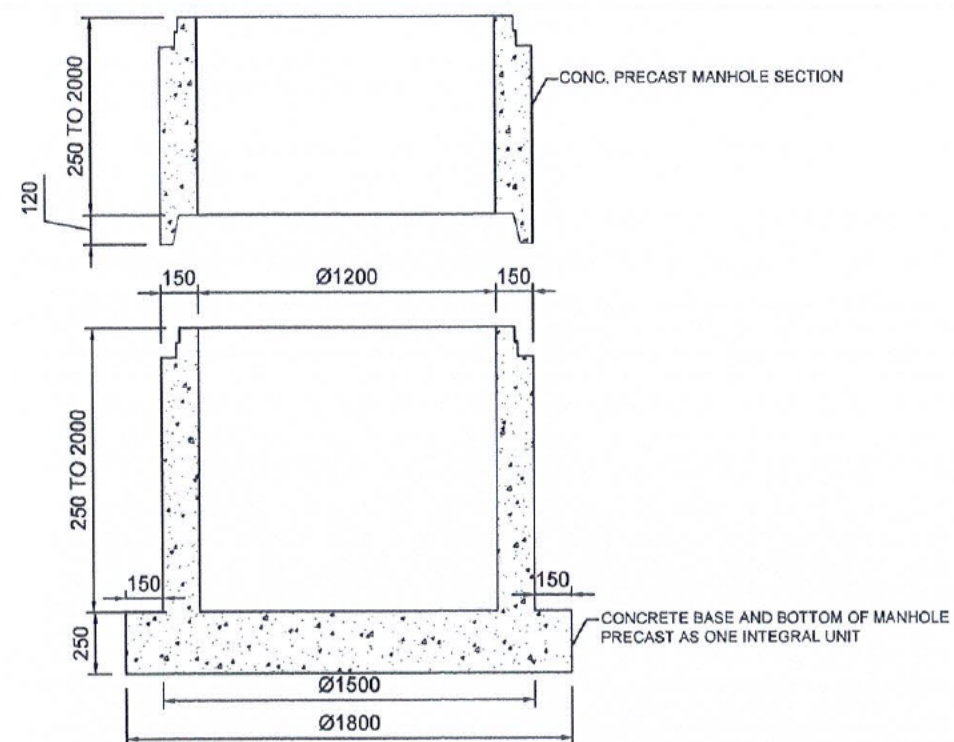
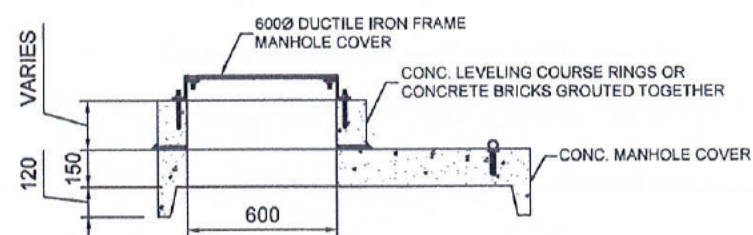
NOTES:

1. ALL DIMENSIONS ARE IN mm.
2. FOUNDING SOIL FOR THE MANHOLE MAY BE IMPROVED AT SITE IF THE SOIL IS FOUND TO BE WEAKER TO SUPPORT THE MANHOLES.
3. IF THERE ARE ANY DISCREPANCIES OR AMBIGUITIES ON THE DRAWING CONSULT THE ENGINEER PRIOR TO CONSTRUCTION.

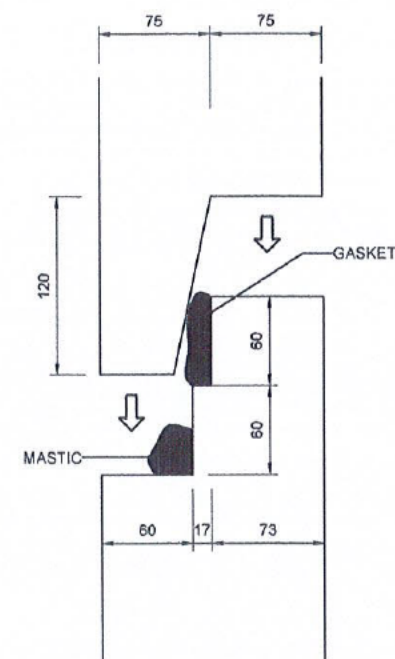
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NOTES:

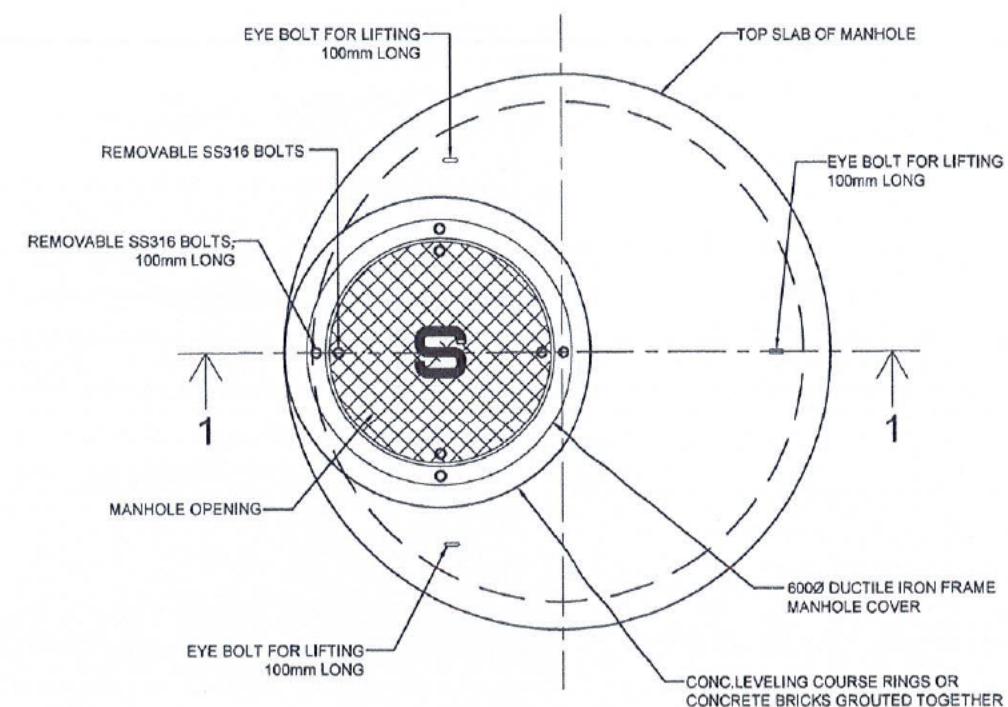
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. FOR STRUCTURAL DETAILS REFER DRAWING NO. BTB-VW-SS-ST-001



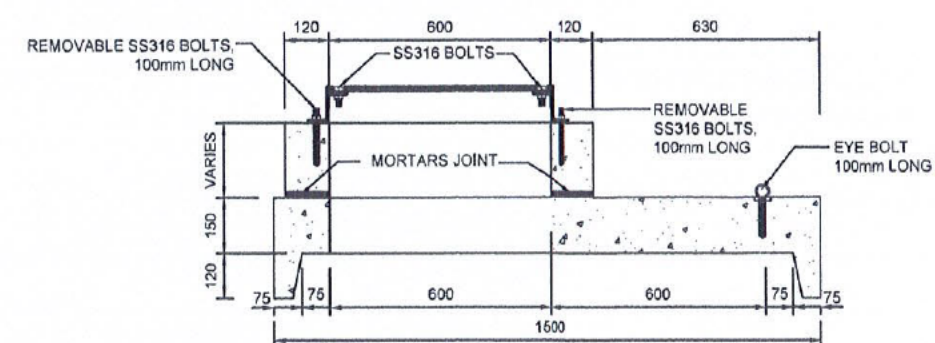
PRECAST SEWER MANHOLE DETAIL
SCALE 1 : 30



JOINT DETAIL
OF SEWER MANHOLE
SCALE 1 : 5



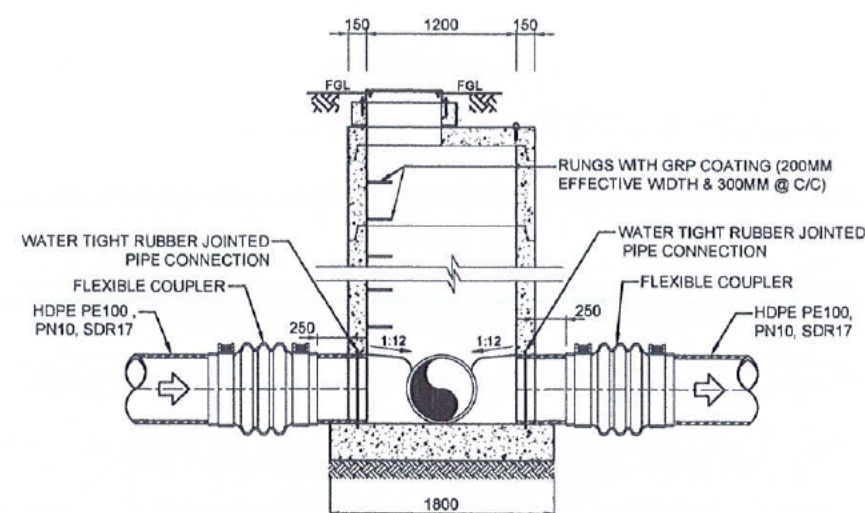
DUCTILE IRON FRAME & COVER
OF SEWER MANHOLE
SCALE 1 : 20



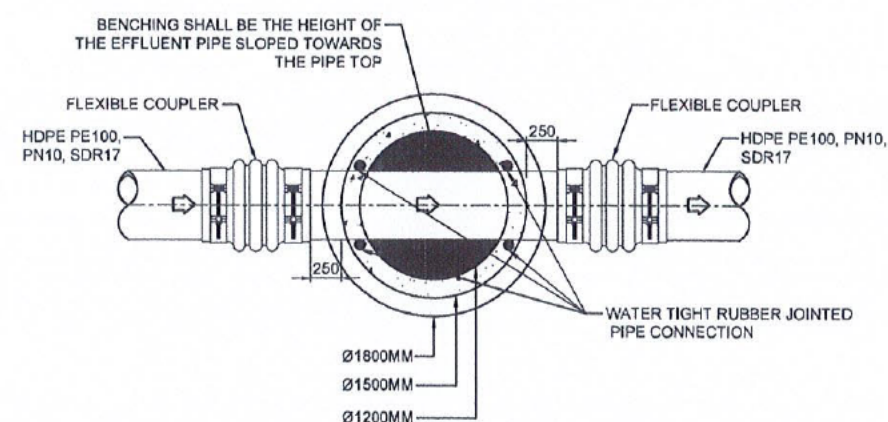
SECTION 1-1 SEWER MAHNHOLE
SCALE 1 : 20

NOTES:

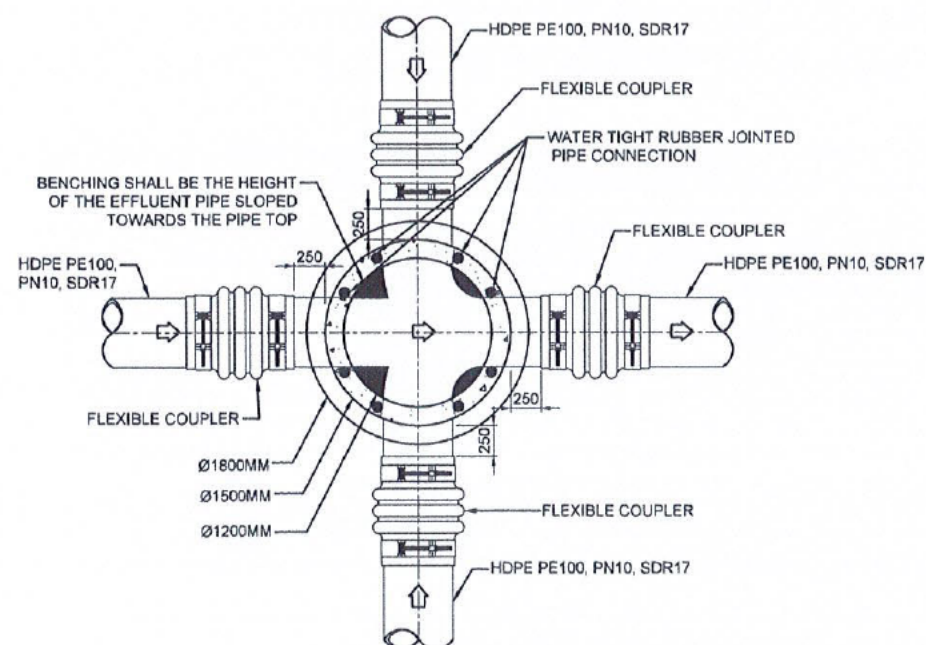
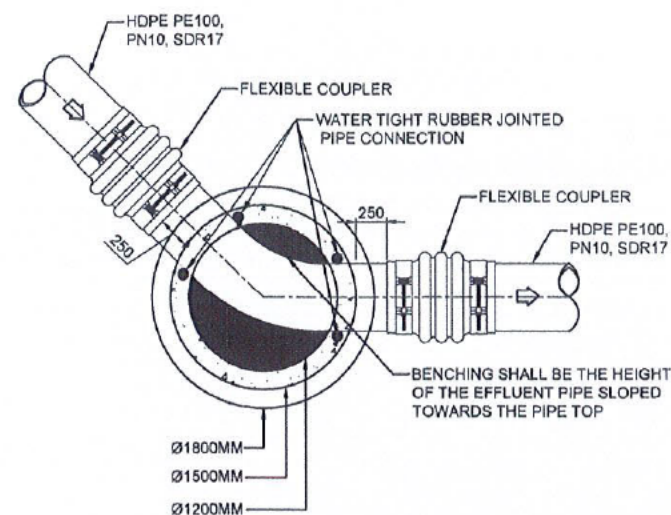
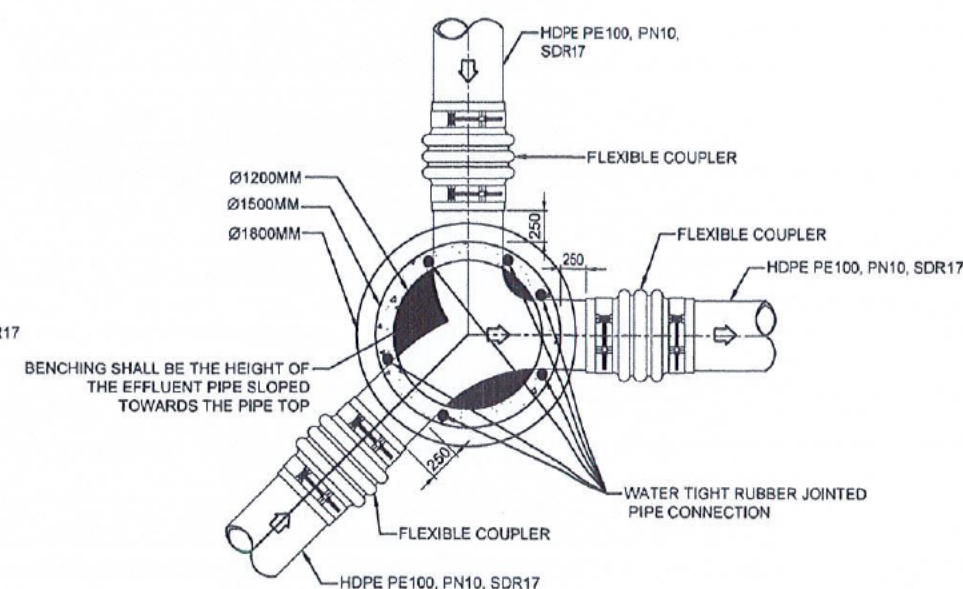
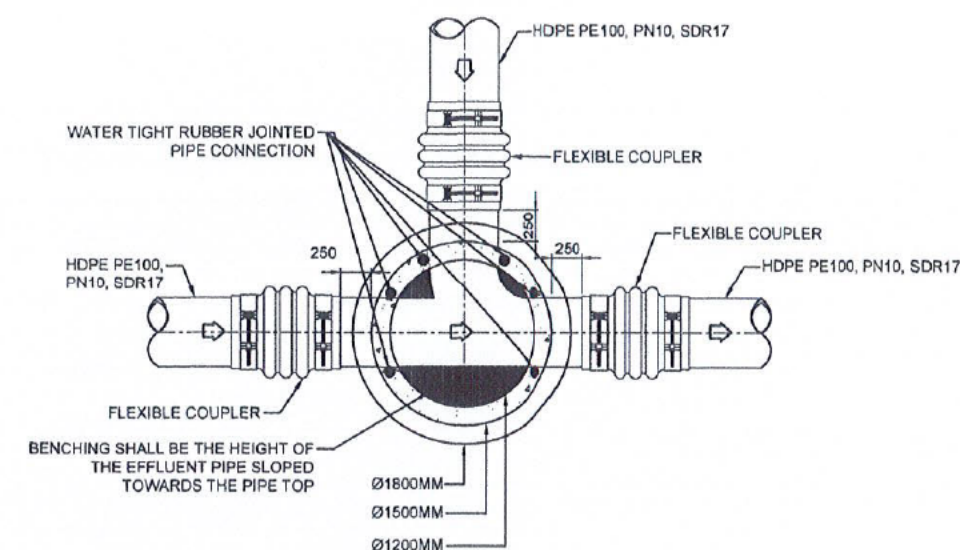
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL MANHOLE CONNECTIONS SHALL BE CORED WITH A CONCRETE CORING MACHINE.

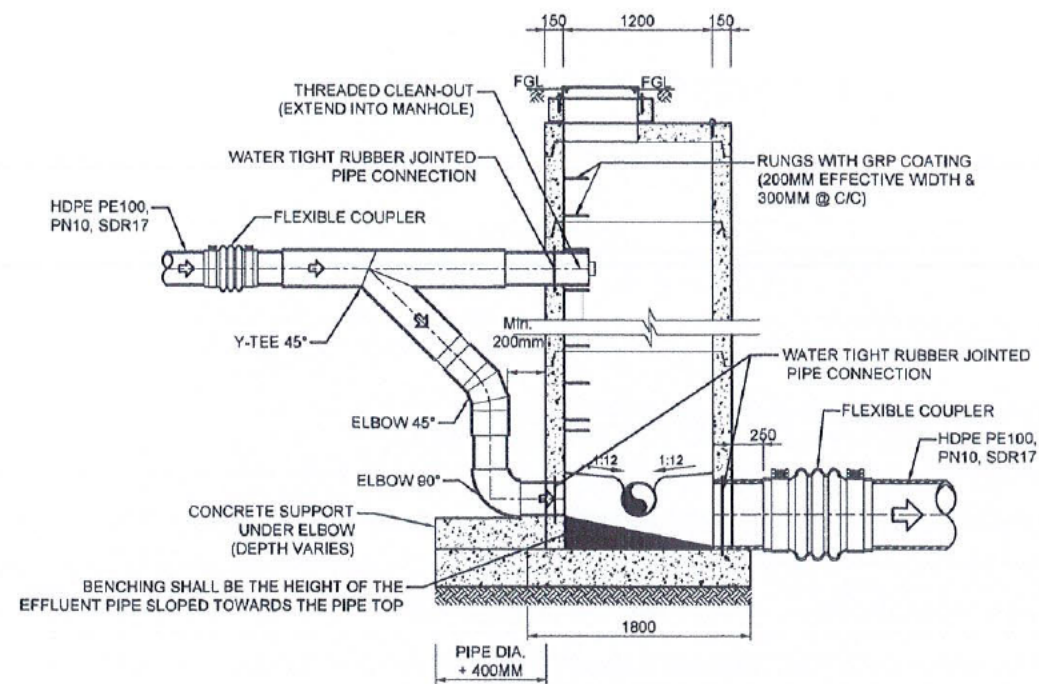


STANDARD SECTION VIEW OF SEWER MANHOLE
WITHOUT DROPPED INLET PIPE

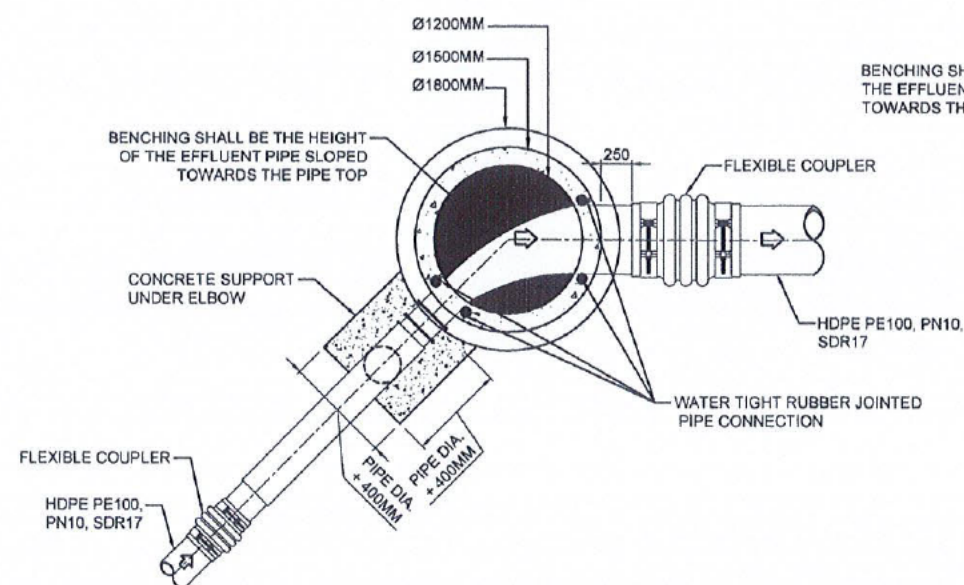
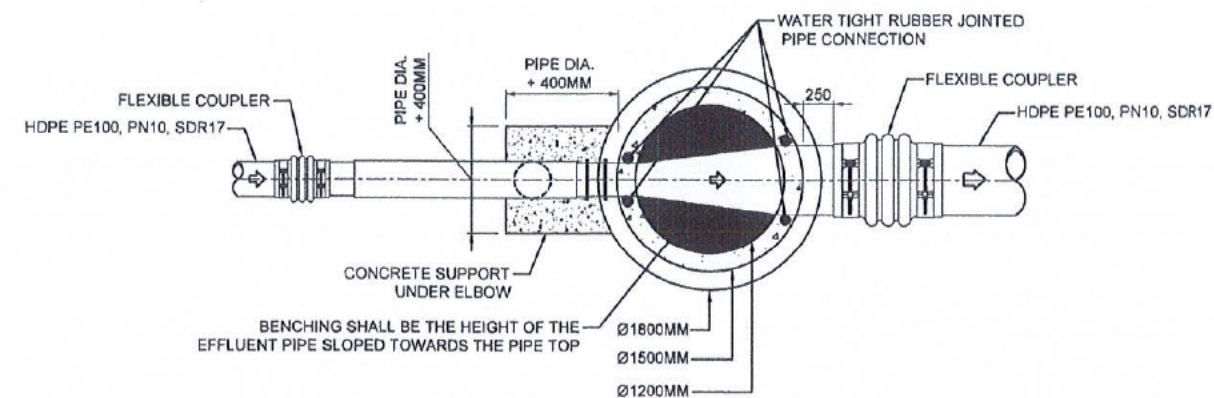


STANDARD PLAN VIEW OF SEWER MANHOLE
WITHOUT DROPPED INLET PIPE





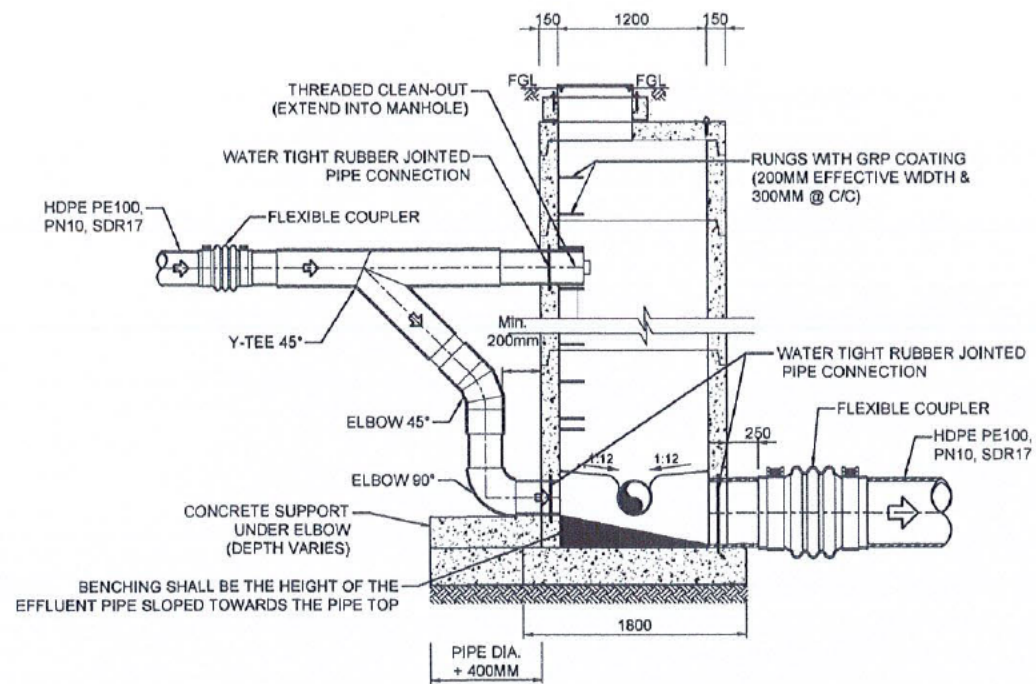
STANDARD SECTION VIEW OF SEWER
MANHOLE WITH SINGLE DROPPED INLET PIPE



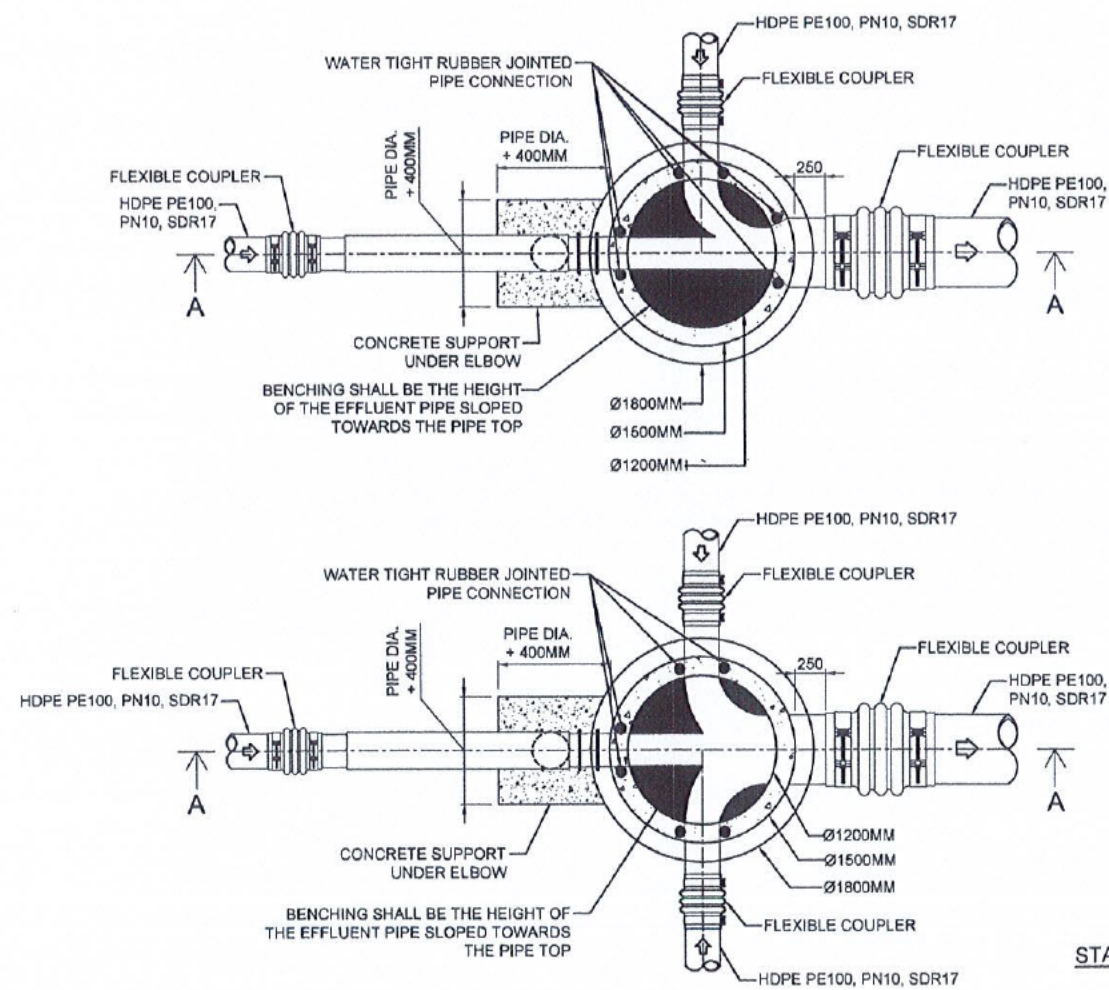
STANDARD PLAN VIEW OF SEWER MANHOLE
WITH SINGLE DROPPED INLET PIPE

NOTES:

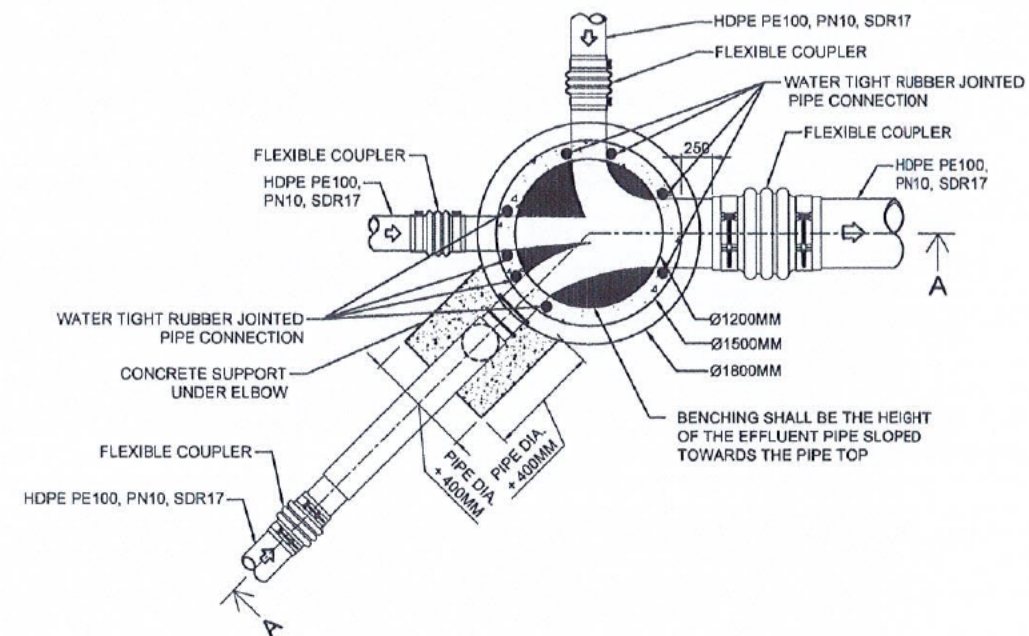
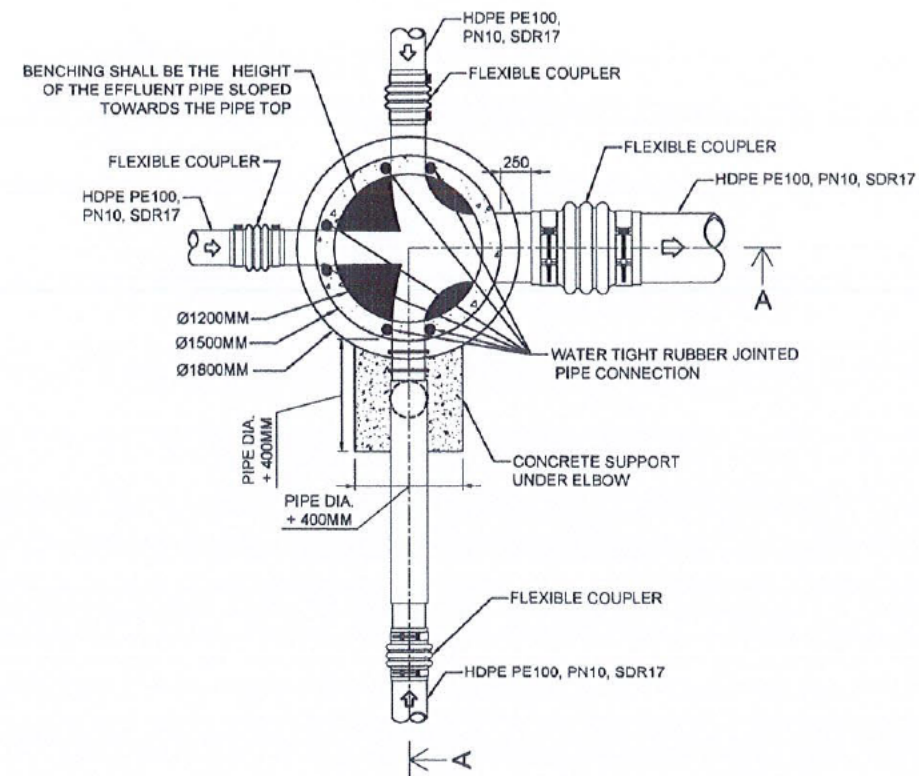
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL MANHOLE CONNECTIONS SHALL BE CORED WITH A CONCRETE CORING MACHINE.
3. APPROVED PRECAST DROP MANHOLES MAY BE USED.
4. CONCRETE ENCASMENT OF OUTSIDE DROP PIPING IS TYPICALLY USED; HOWEVER WHEN GROUND CONDITIONS ARE NOT GOOD, THE PIPE WORK CAN BE SUPPORTED WITH A CONCRETE SLAB AS PART OF THE MANHOLE BASE TO MITIGATE DIFFERENTIAL SETTLEMENT.
5. FOR DROP CONNECTIONS BOTH THE VERTICAL AND HORIZONTAL PIPELINE SHALL HAVE THE SAME DIAMETER AS THE INCOMING PIPELINE-NO REDUCTIONS IN PIPELINE SIZE FOR ANY OF THE CONNECTED PIPELINES IN DROP MANHOLES.



**STANDARD SECTION VIEW OF SEWER MANHOLE
WITH SINGLE DROPPED INLET PIPE**

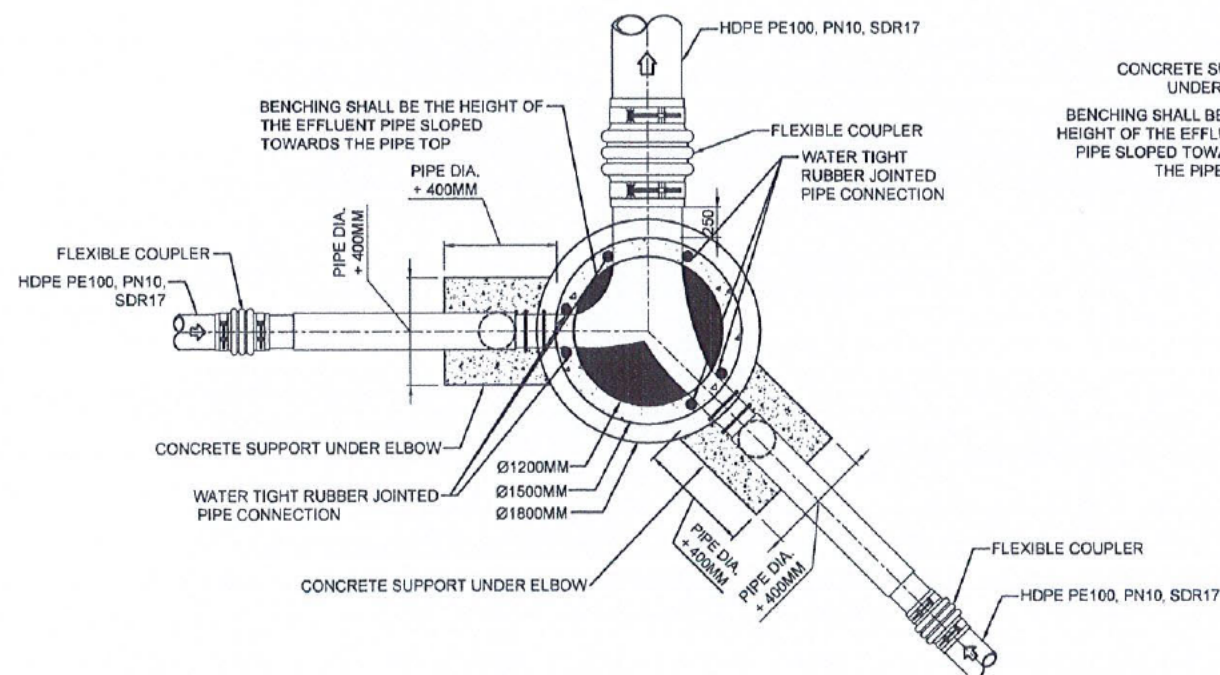


**STANDARD PLAN VIEW OF SEWER MANHOLE WITH
SINGLE DROPPED INLET PIPE**



NOTES:

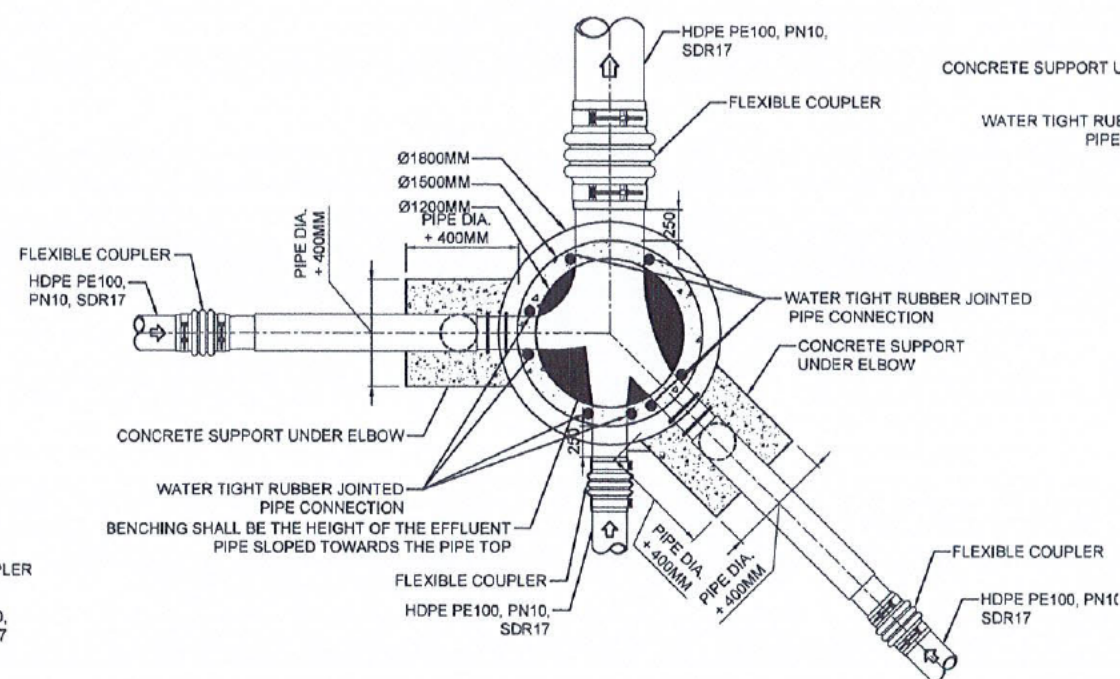
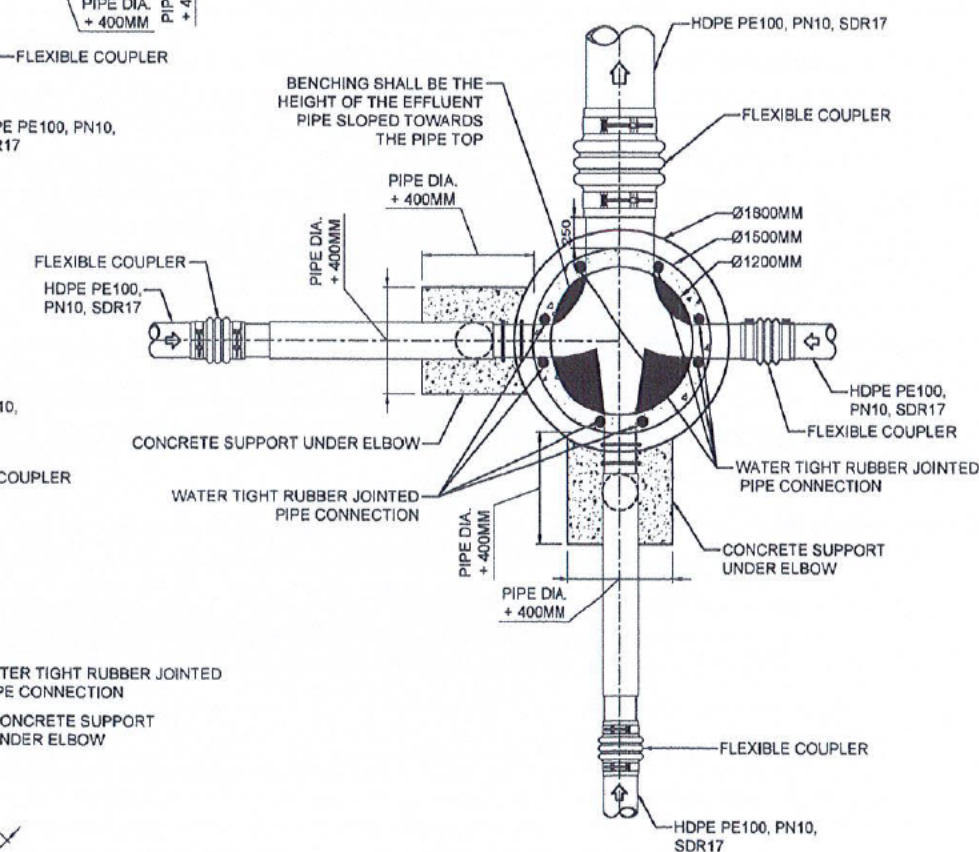
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STANDARD PLAN VIEW OF SEWER MANHOLE WITH MULTIPLE DROPPED INLET PIPE

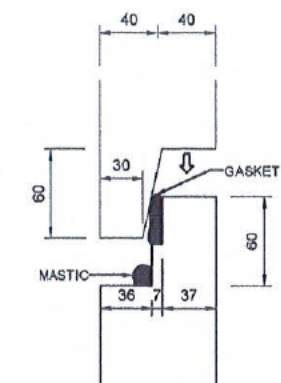
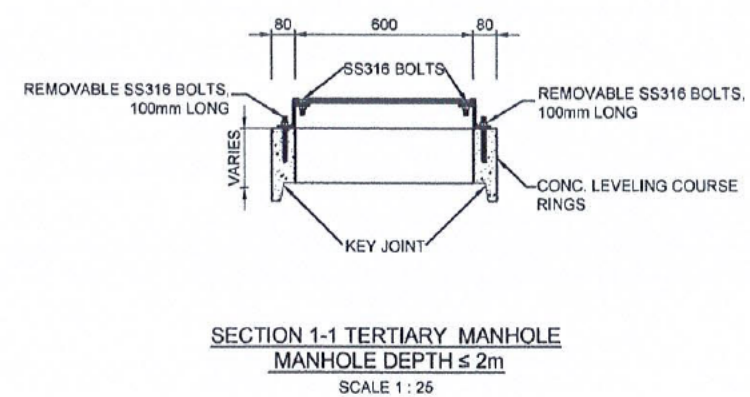
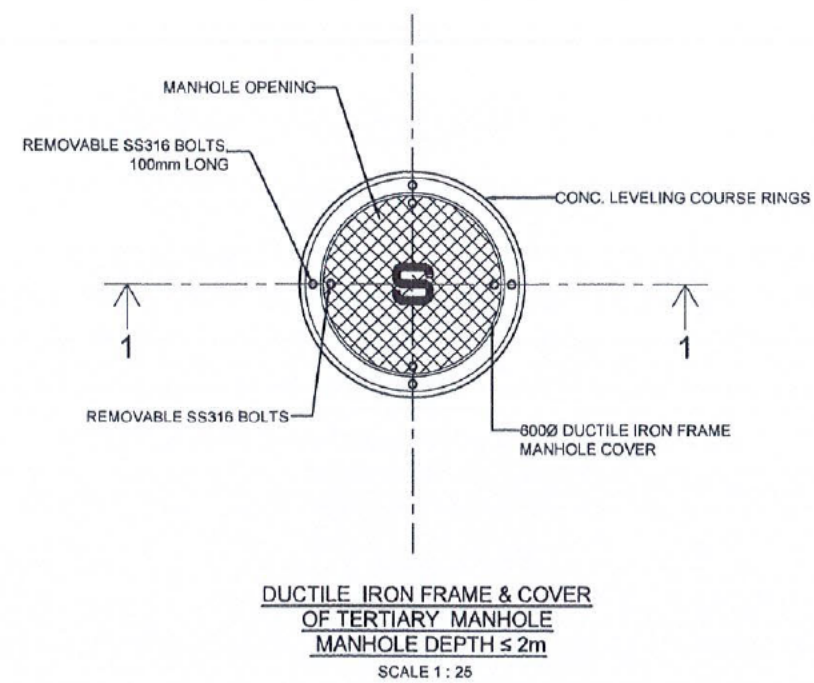
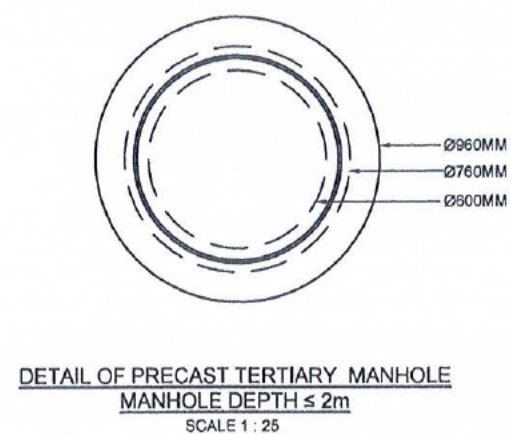
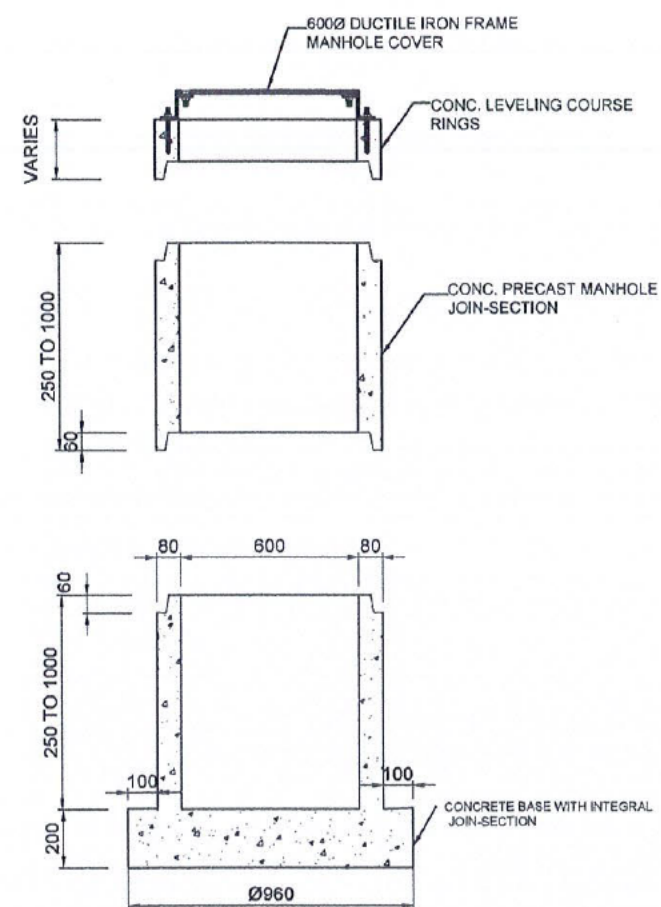
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
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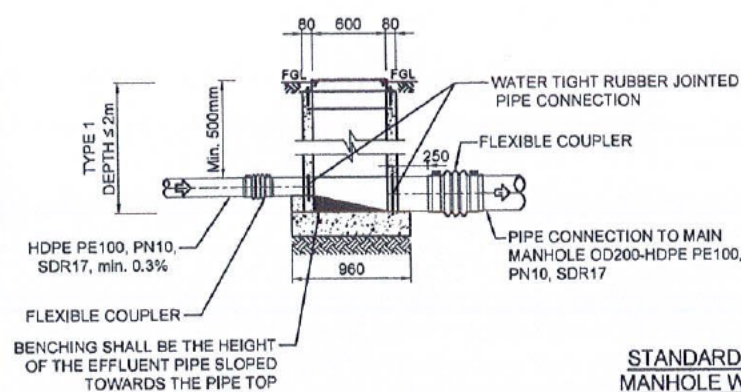
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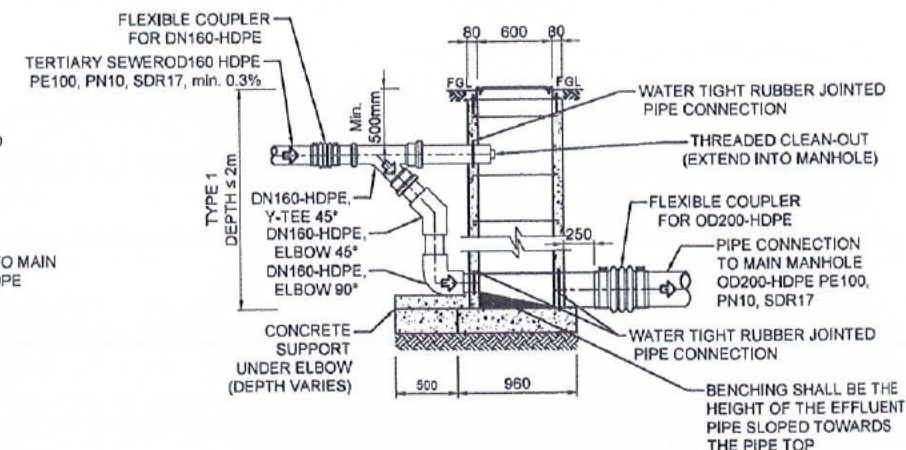
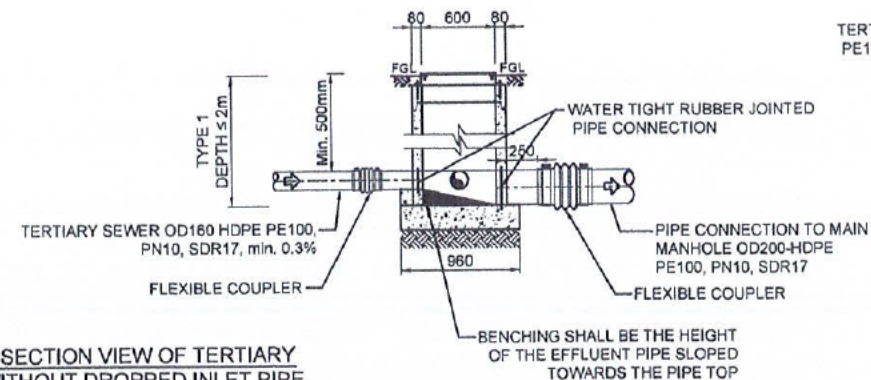
STANDARD PLAN VIEW OF SEWER MANHOLE WITH MULTIPLE DROPPED INLET PIPE

- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. FOR STRUCTURAL DETAILS REFER DRG. No. BTB-WW-SS-ST-002.

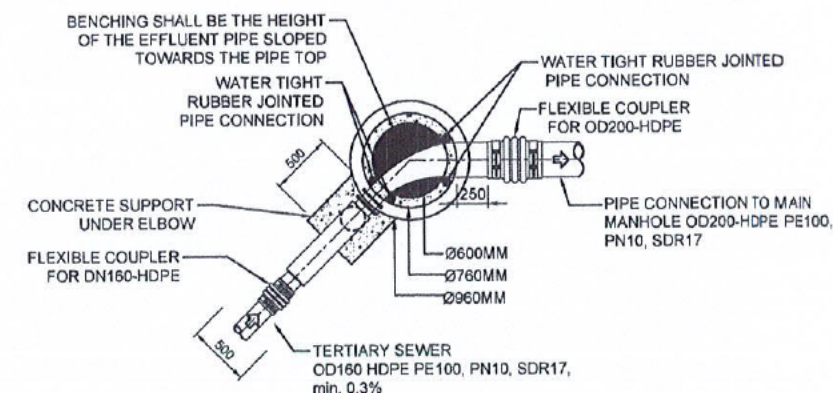
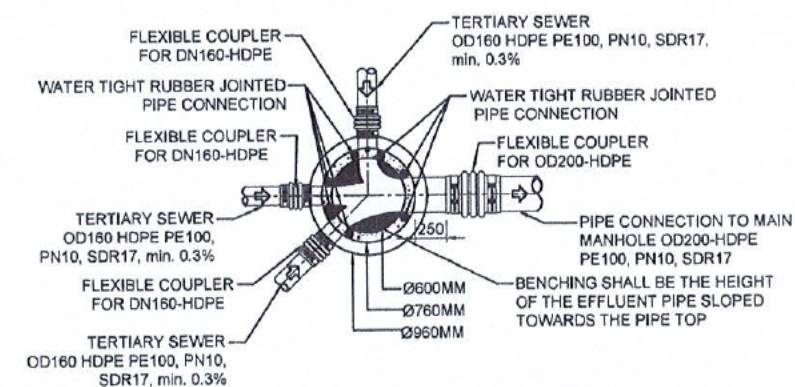
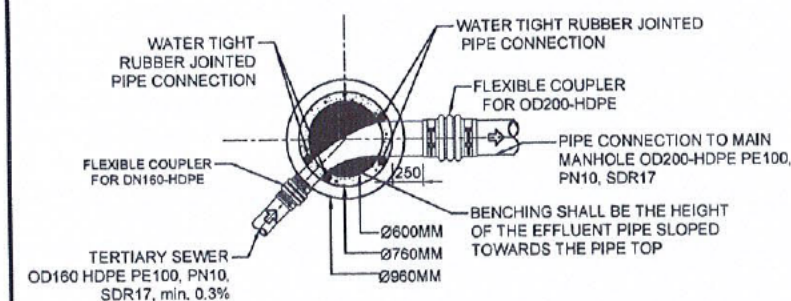
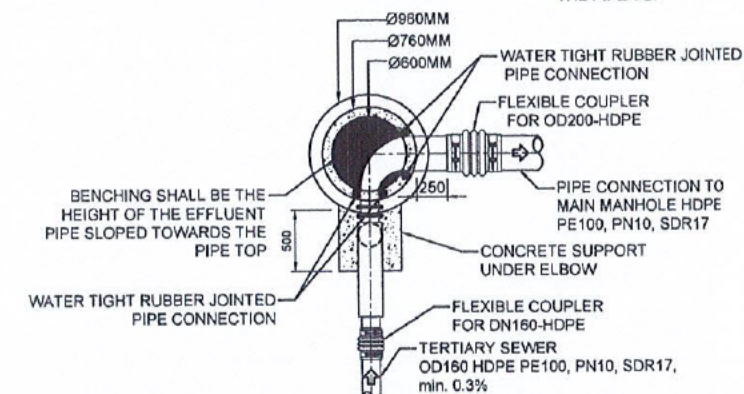
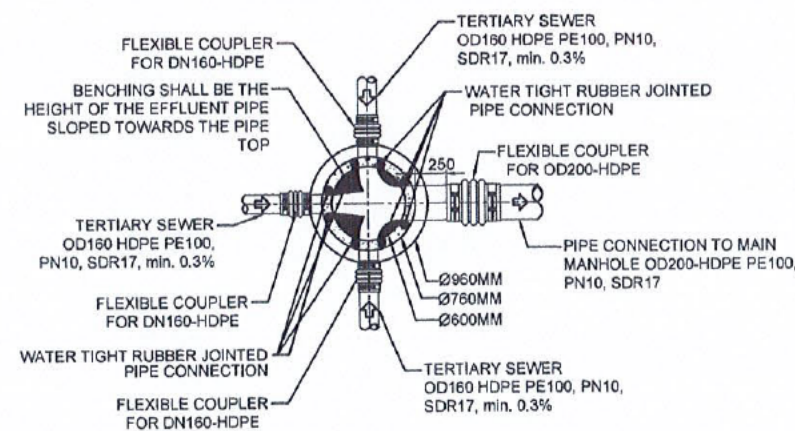
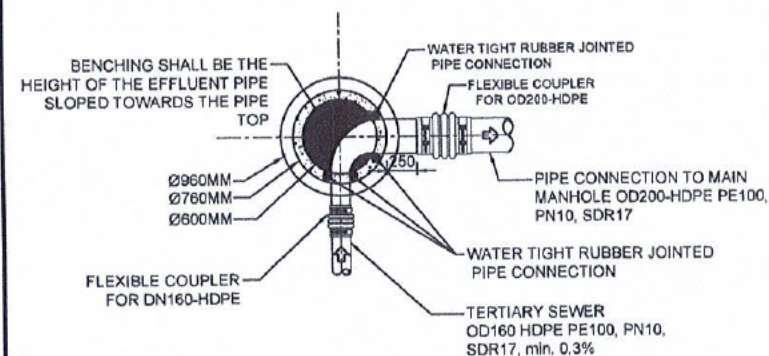
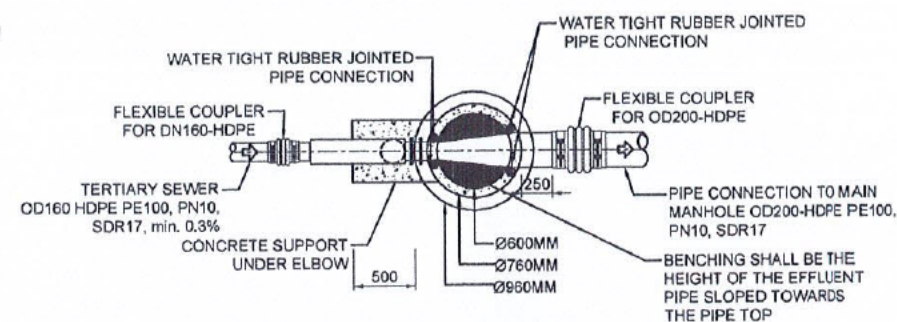
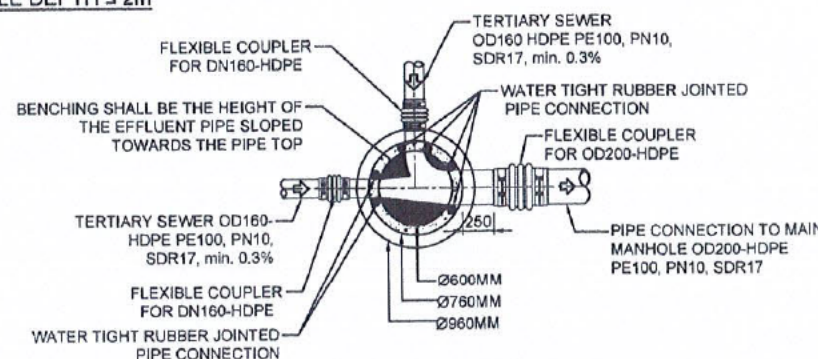
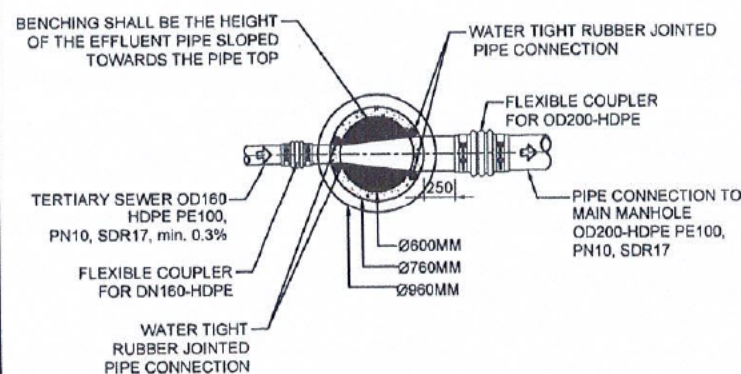




STANDARD SECTION VIEW OF TERTIARY
MANHOLE WITHOUT DROPPED INLET PIPE
MANHOLE DEPTH ≤ 2m



STANDARD SECTION VIEW OF TERTIARY
MANHOLE WITH SINGLE DROPPED INLET PIPE
MANHOLE DEPTH ≤ 2m



STANDARD PLAN VIEW OF OF TERTIARY
MANHOLE WITHOUT DROPPED INLET PIPE
MANHOLE DEPTH ≤ 2m

STANDARD PLAN VIEW OF OF TERTIARY
MANHOLE WITH SINGLE DROPPED INLET PIPE
MANHOLE DEPTH ≤ 2m

NOTES:

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2. ALL MANHOLE CONNECTIONS SHALL BE CORED WITH A CONCRETE CORING MACHINE.
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