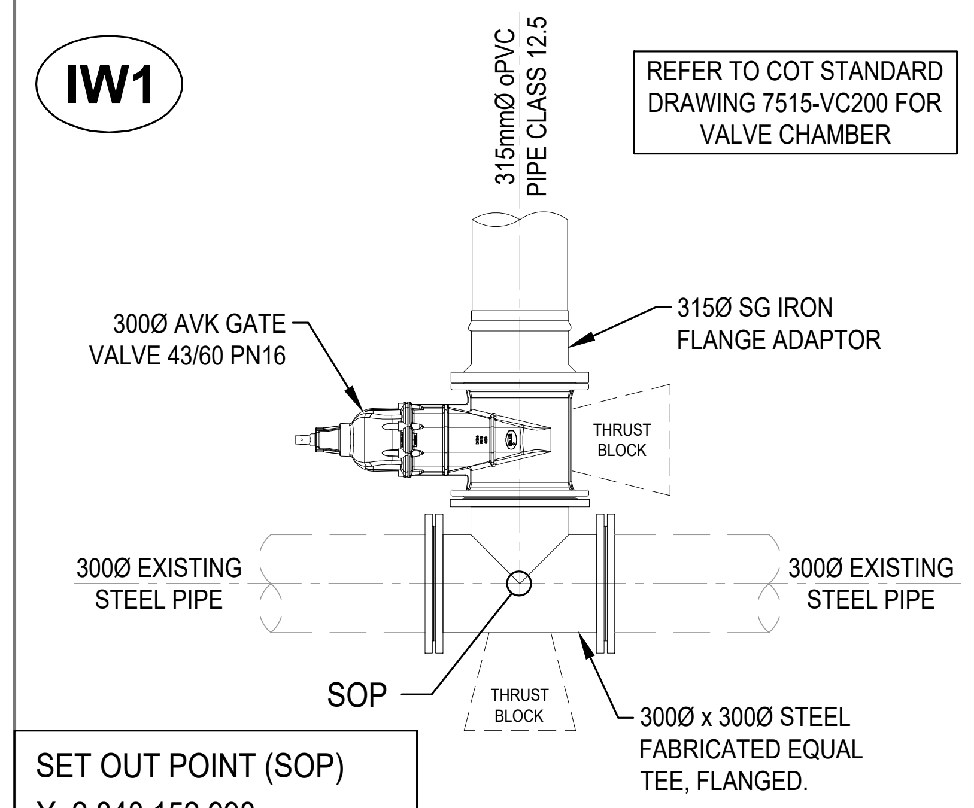
IW1

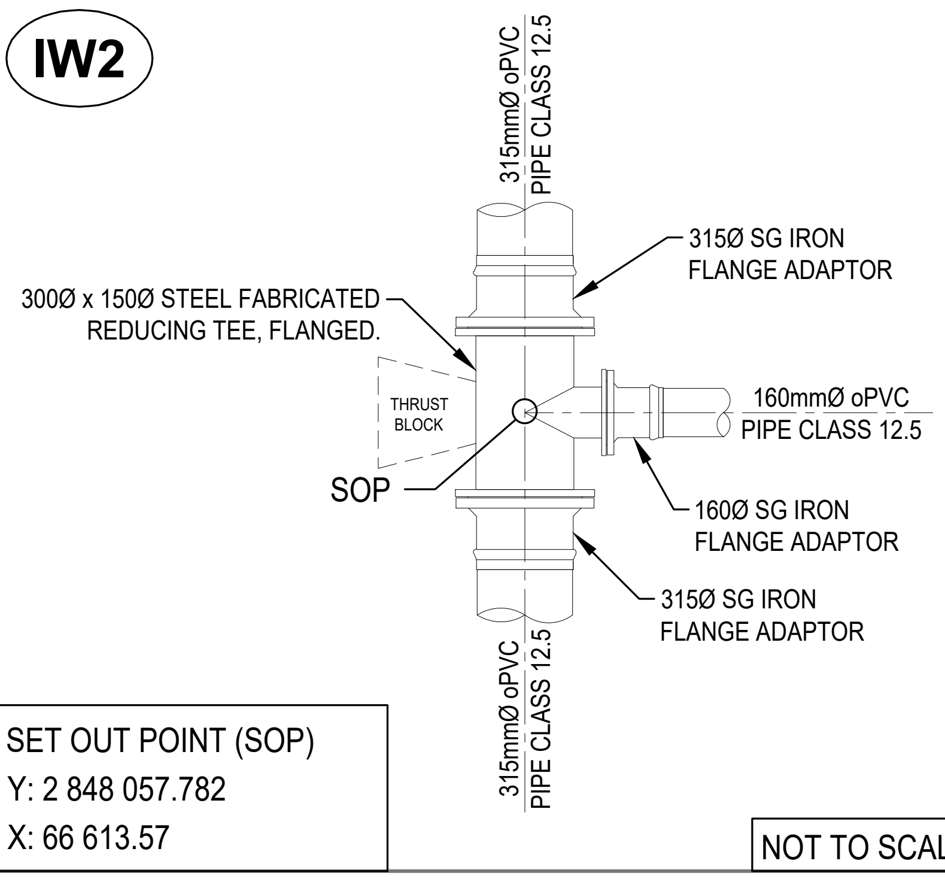
REFER TO COT STANDARD DRAWING 7515-VC200 FOR VALVE CHAMBER


315mmØ oPVC PIPE CLASS 12.5
300Ø AVK GATE VALVE 43/60 PN16
315Ø SG IRON FLANGE ADAPTOR
THRUST BLOCK
300Ø EXISTING STEEL PIPE
300Ø EXISTING STEEL PIPE
SOP
THRUST BLOCK
300Ø x 300Ø STEEL FABRICATED EQUAL TEE, FLANGED.

SET OUT POINT (SOP)
Y: 2 848 152.998
X: 66 648.912

NOT TO SCALE

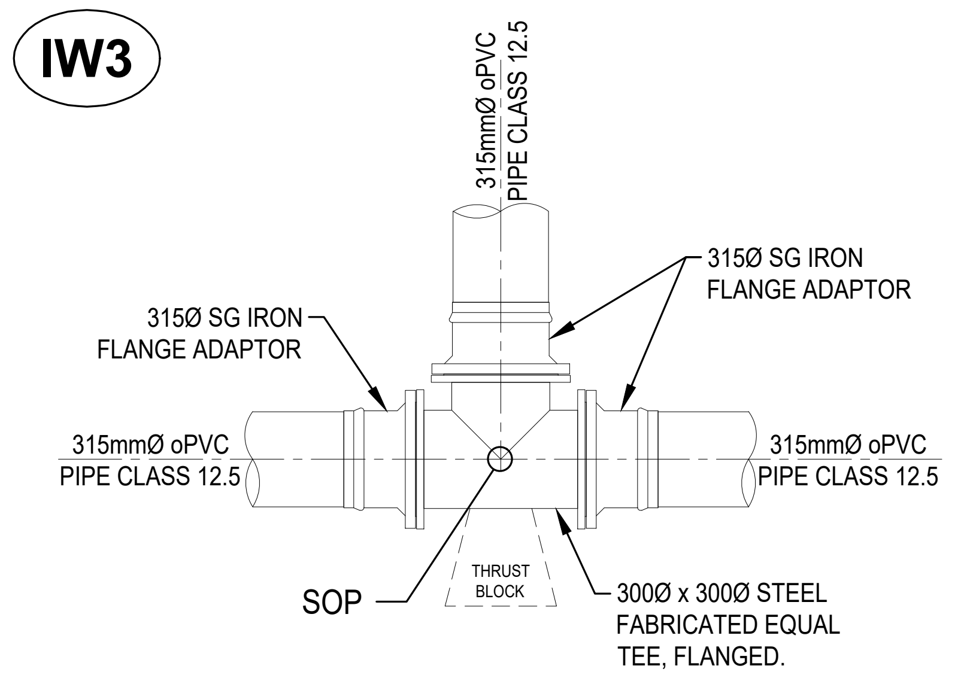
IW2


315mmØ oPVC PIPE CLASS 12.5
315Ø SG IRON FLANGE ADAPTOR
300Ø x 150Ø STEEL FABRICATED REDUCING TEE, FLANGED.
THRUST BLOCK
160mmØ oPVC PIPE CLASS 12.5
SOP
160Ø SG IRON FLANGE ADAPTOR
315Ø SG IRON FLANGE ADAPTOR
315mmØ oPVC PIPE CLASS 12.5

SET OUT POINT (SOP)
Y: 2 848 057.782
X: 66 613.57

NOT TO SCALE

IW3

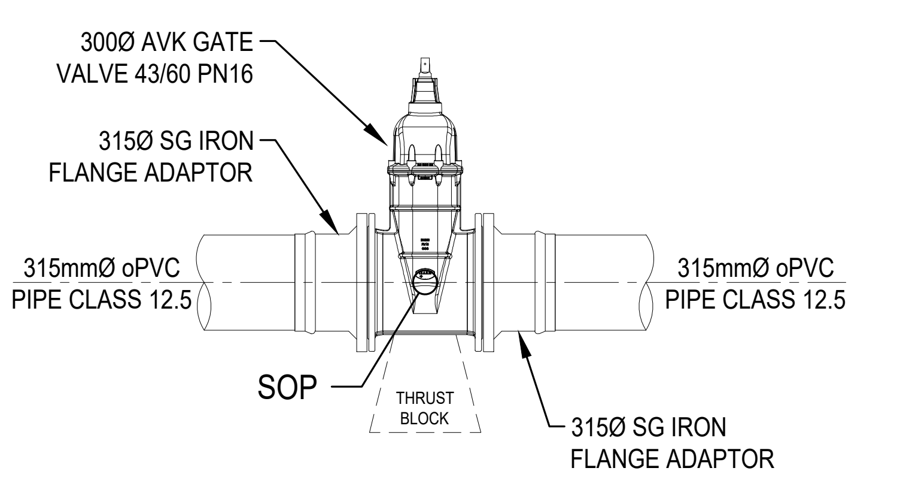

315mmØ oPVC PIPE CLASS 12.5
315Ø SG IRON FLANGE ADAPTOR
315Ø SG IRON FLANGE ADAPTOR
315mmØ oPVC PIPE CLASS 12.5
315mmØ oPVC PIPE CLASS 12.5
SOP
THRUST BLOCK
300Ø x 300Ø STEEL FABRICATED EQUAL TEE, FLANGED.

SET OUT POINT (SOP)
Y: 2 848 056.835
X: 66 613.219

NOT TO SCALE

IW4

REFER TO COT STANDARD DRAWING 7515-W203 FOR VALVE CHAMBER - TYPE A

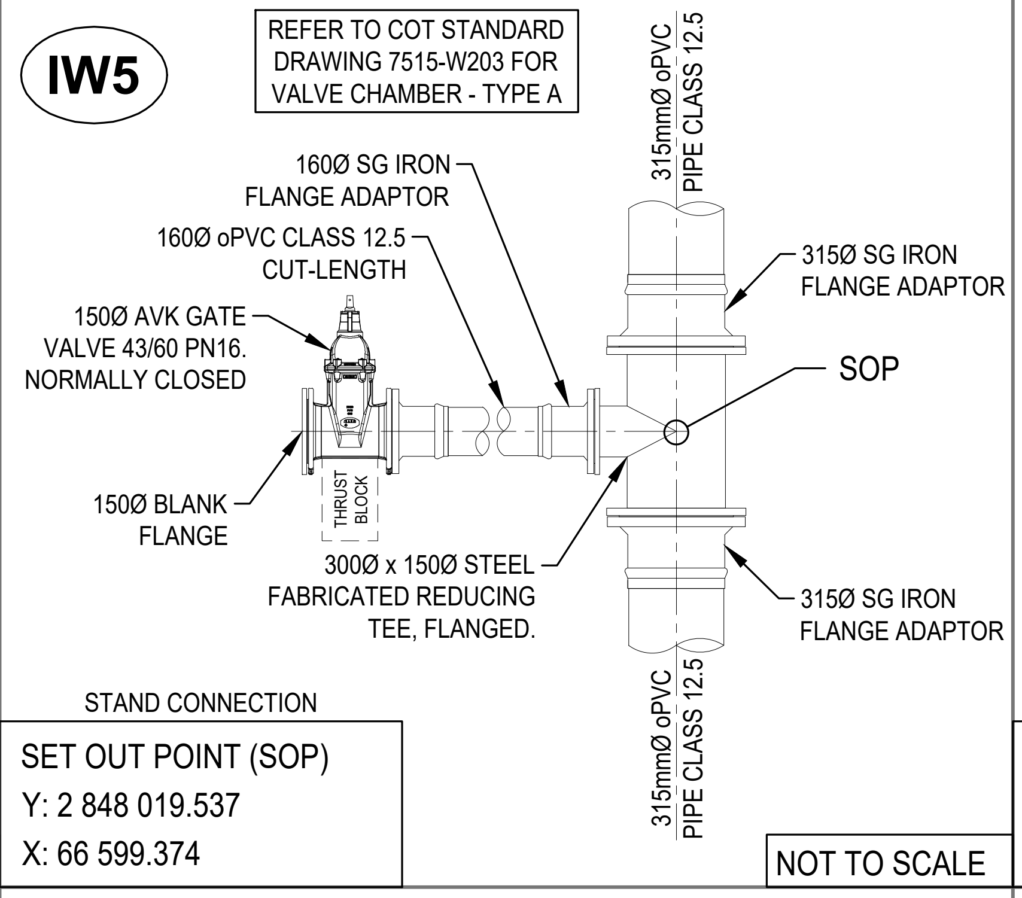

300Ø AVK GATE VALVE 43/60 PN16
315Ø SG IRON FLANGE ADAPTOR
315mmØ oPVC PIPE CLASS 12.5
315mmØ oPVC PIPE CLASS 12.5
SOP
THRUST BLOCK
315Ø SG IRON FLANGE ADAPTOR

SET OUT POINT (SOP)
Y: 2 848 028.749
X: 66 602.794

NOT TO SCALE

IW5

REFER TO COT STANDARD DRAWING 7515-W203 FOR VALVE CHAMBER - TYPE A


315mmØ oPVC PIPE CLASS 12.5
160Ø SG IRON FLANGE ADAPTOR
160Ø oPVC CLASS 12.5 CUT-LENGTH
150Ø AVK GATE VALVE 43/60 PN16. NORMALLY CLOSED
315Ø SG IRON FLANGE ADAPTOR
SOP
150Ø BLANK FLANGE
THRUST BLOCK
300Ø x 150Ø STEEL FABRICATED REDUCING TEE, FLANGED.
315Ø SG IRON FLANGE ADAPTOR
315mmØ oPVC PIPE CLASS 12.5

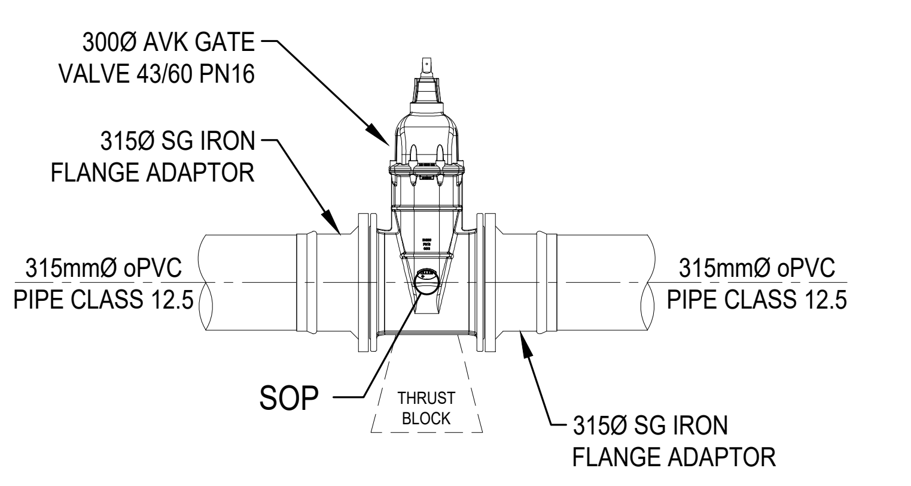
STAND CONNECTION

SET OUT POINT (SOP)
Y: 2 848 019.537
X: 66 599.374

NOT TO SCALE

IW6

REFER TO COT STANDARD DRAWING 7515-W203 FOR VALVE CHAMBER - TYPE A

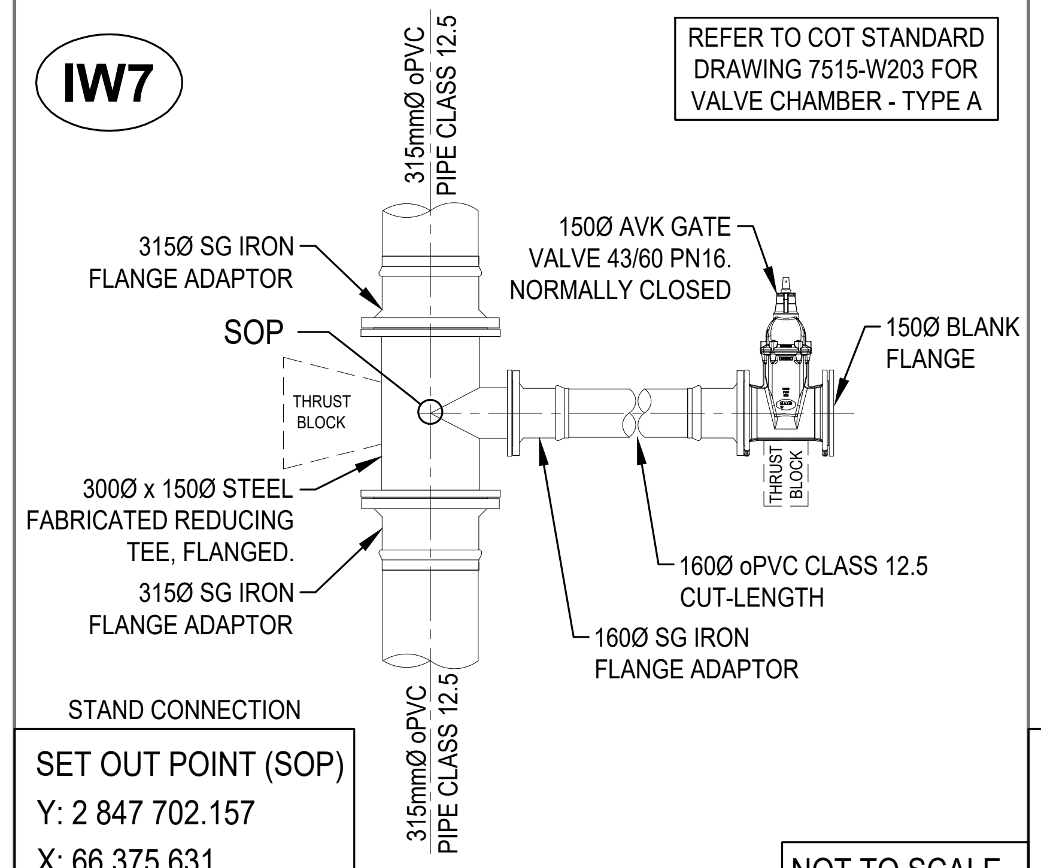

300Ø AVK GATE VALVE 43/60 PN16
315Ø SG IRON FLANGE ADAPTOR
315mmØ oPVC PIPE CLASS 12.5
315mmØ oPVC PIPE CLASS 12.5
SOP
THRUST BLOCK
315Ø SG IRON FLANGE ADAPTOR

SET OUT POINT (SOP)
Y: 2 847 813.464
X: 66 497.71

NOT TO SCALE

IW7

REFER TO COT STANDARD DRAWING 7515-W203 FOR VALVE CHAMBER - TYPE A


315mmØ oPVC PIPE CLASS 12.5
315Ø SG IRON FLANGE ADAPTOR
150Ø AVK GATE VALVE 43/60 PN16. NORMALLY CLOSED
SOP
150Ø BLANK FLANGE
THRUST BLOCK
THRUST BLOCK
300Ø x 150Ø STEEL FABRICATED REDUCING TEE, FLANGED.
315Ø SG IRON FLANGE ADAPTOR
160Ø oPVC CLASS 12.5 CUT-LENGTH
160Ø SG IRON FLANGE ADAPTOR
315mmØ oPVC PIPE CLASS 12.5

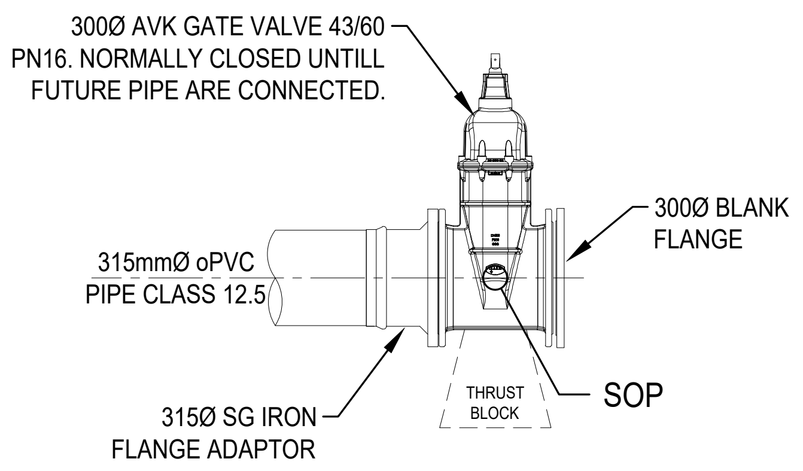
STAND CONNECTION

SET OUT POINT (SOP)
Y: 2 847 702.157
X: 66 375.631

NOT TO SCALE

IW8

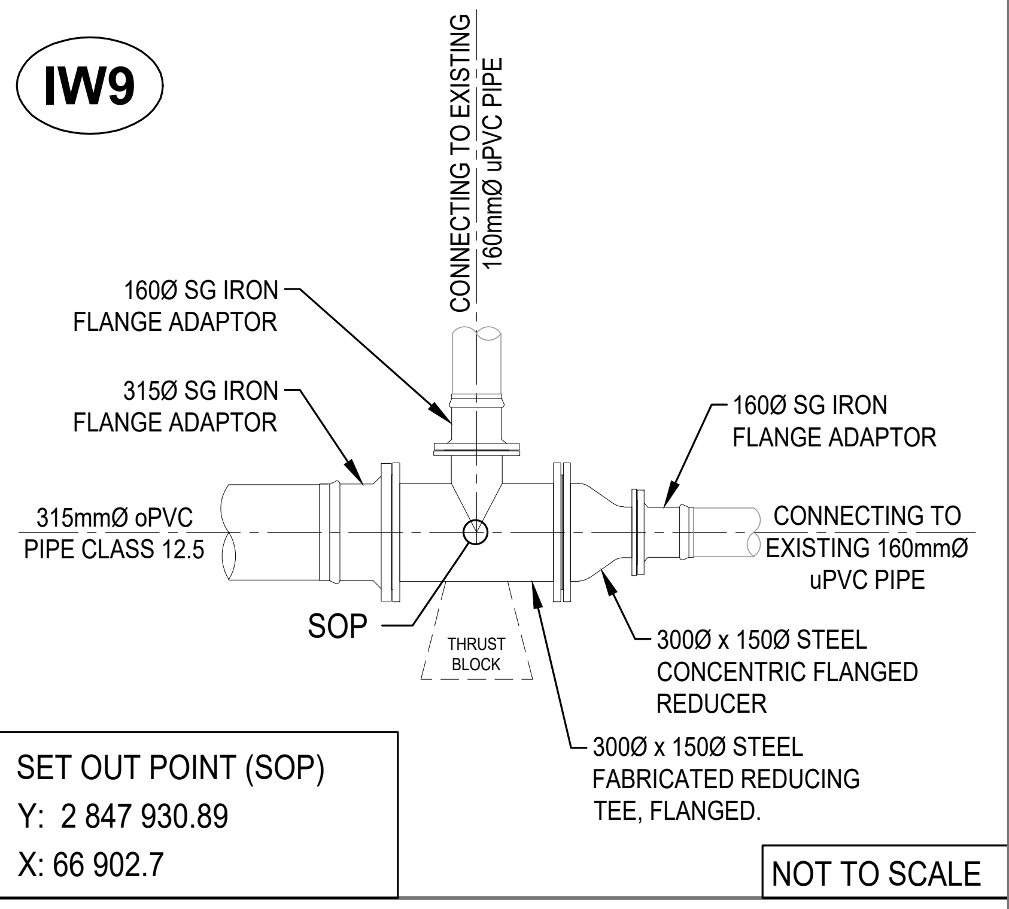
REFER TO COT STANDARD DRAWING 7515-W203 FOR VALVE CHAMBER - TYPE A


300Ø AVK GATE VALVE 43/60 PN16. NORMALLY CLOSED UNTILL FUTURE PIPE ARE CONNECTED.
300Ø BLANK FLANGE
315mmØ oPVC PIPE CLASS 12.5
THRUST BLOCK
SOP
315Ø SG IRON FLANGE ADAPTOR

SET OUT POINT (SOP)
Y: 2 847 603.494
X: 66 208.491

NOT TO SCALE

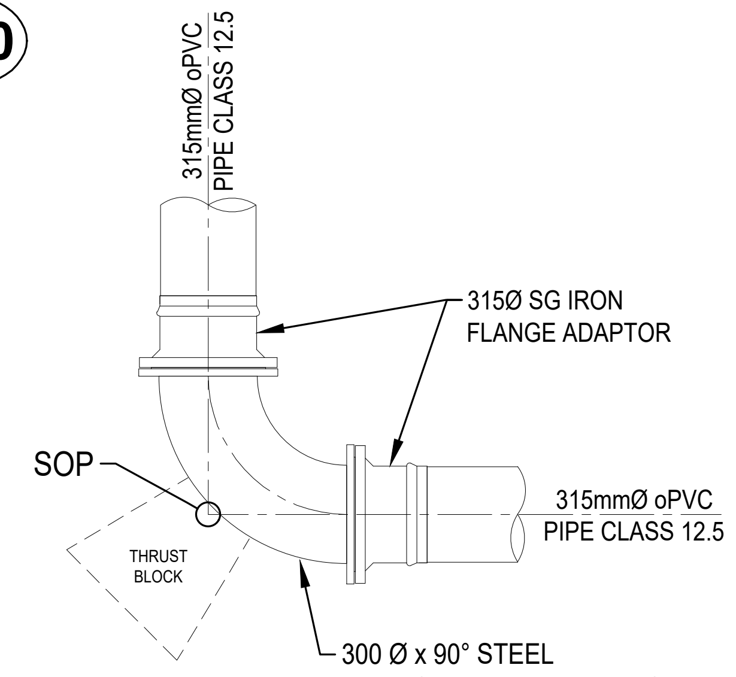
IW9


CONNECTING TO EXISTING 160mmØ uPVC PIPE
160Ø SG IRON FLANGE ADAPTOR
315Ø SG IRON FLANGE ADAPTOR
160Ø SG IRON FLANGE ADAPTOR
315mmØ oPVC PIPE CLASS 12.5
CONNECTING TO EXISTING 160mmØ uPVC PIPE
SOP
THRUST BLOCK
300Ø x 150Ø STEEL CONCENTRIC FLANGED REDUCER
300Ø x 150Ø STEEL FABRICATED REDUCING TEE, FLANGED.

SET OUT POINT (SOP)
Y: 2 847 930.89
X: 66 902.7

NOT TO SCALE

IW10

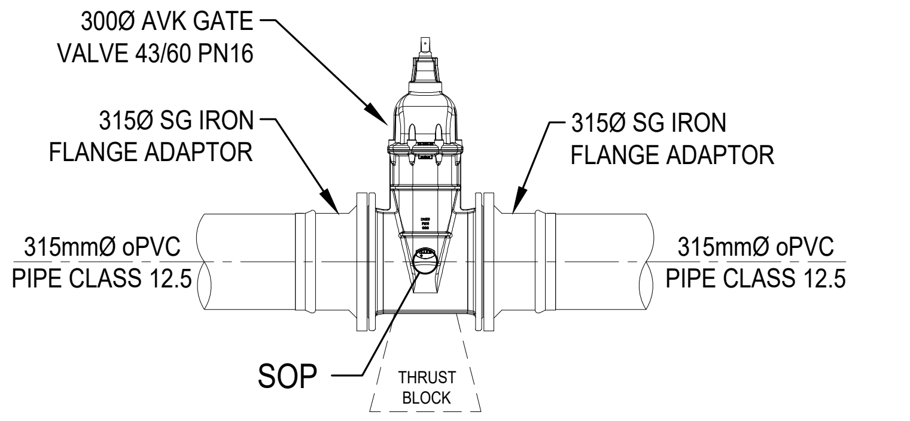

315mmØ oPVC PIPE CLASS 12.5
315Ø SG IRON FLANGE ADAPTOR
SOP
315mmØ oPVC PIPE CLASS 12.5
THRUST BLOCK
300 Ø x 90° STEEL FABRICATED BEND, FLANGED.

SET OUT POINT (SOP)
Y: 2 847 946.88
X: 66 905.967

NOT TO SCALE

IW11

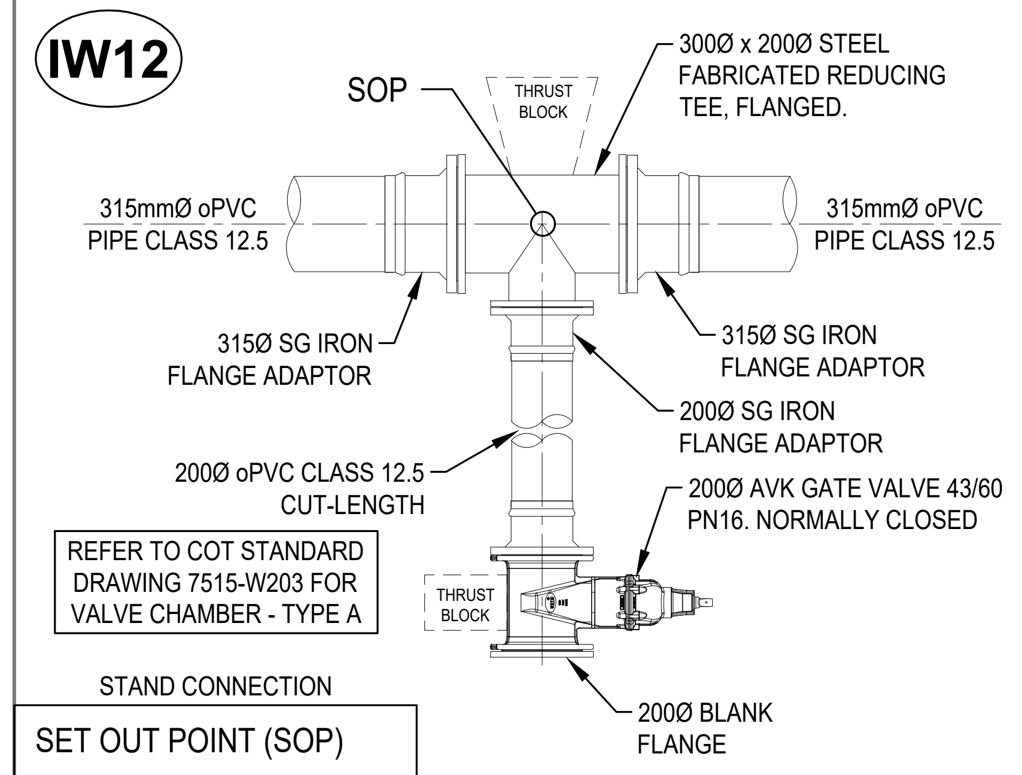
REFER TO COT STANDARD DRAWING 7515-W203 FOR VALVE CHAMBER - TYPE A


300Ø AVK GATE VALVE 43/60 PN16
315Ø SG IRON FLANGE ADAPTOR
315Ø SG IRON FLANGE ADAPTOR
315mmØ oPVC PIPE CLASS 12.5
315mmØ oPVC PIPE CLASS 12.5
SOP
THRUST BLOCK

SET OUT POINT (SOP)
Y: 2 847 950.907
X: 66 895.231

NOT TO SCALE

IW12


SOP
THRUST BLOCK
300Ø x 200Ø STEEL FABRICATED REDUCING TEE, FLANGED.
315mmØ oPVC PIPE CLASS 12.5
315mmØ oPVC PIPE CLASS 12.5
315Ø SG IRON FLANGE ADAPTOR
315Ø SG IRON FLANGE ADAPTOR
200Ø SG IRON FLANGE ADAPTOR
200Ø oPVC CLASS 12.5 CUT-LENGTH
200Ø AVK GATE VALVE 43/60 PN16. NORMALLY CLOSED
THRUST BLOCK
200Ø BLANK FLANGE

REFER TO COT STANDARD DRAWING 7515-W203 FOR VALVE CHAMBER - TYPE A

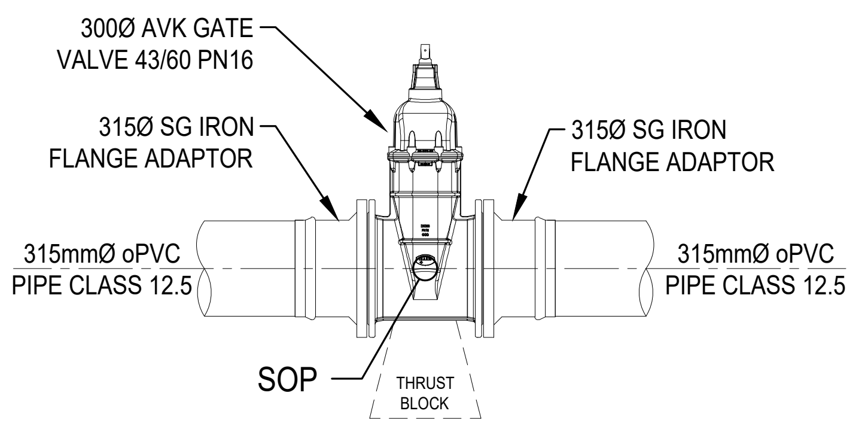
STAND CONNECTION

SET OUT POINT (SOP)
Y: 2 847 951.966
X: 66 892.425

NOT TO SCALE

IW13

REFER TO COT STANDARD DRAWING 7515-W203 FOR VALVE CHAMBER - TYPE A

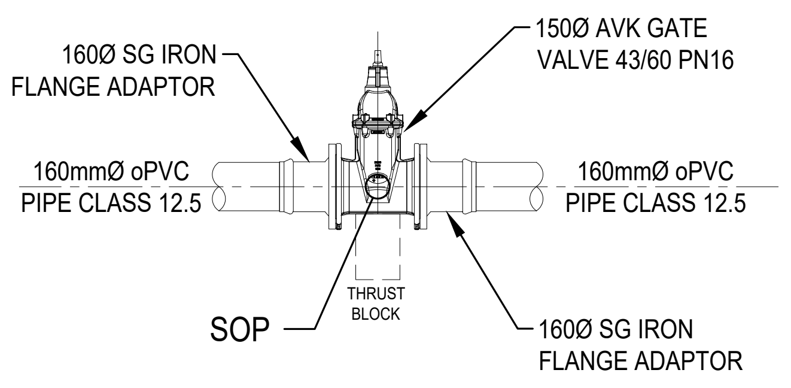

300Ø AVK GATE VALVE 43/60 PN16
315Ø SG IRON FLANGE ADAPTOR
315Ø SG IRON FLANGE ADAPTOR
315mmØ oPVC PIPE CLASS 12.5
315mmØ oPVC PIPE CLASS 12.5
SOP
THRUST BLOCK

SET OUT POINT (SOP)
Y: 2 848 046.267
X: 66 641.343

NOT TO SCALE

IW14

REFER TO COT STANDARD DRAWING 7515-W203 FOR VALVE CHAMBER - TYPE A

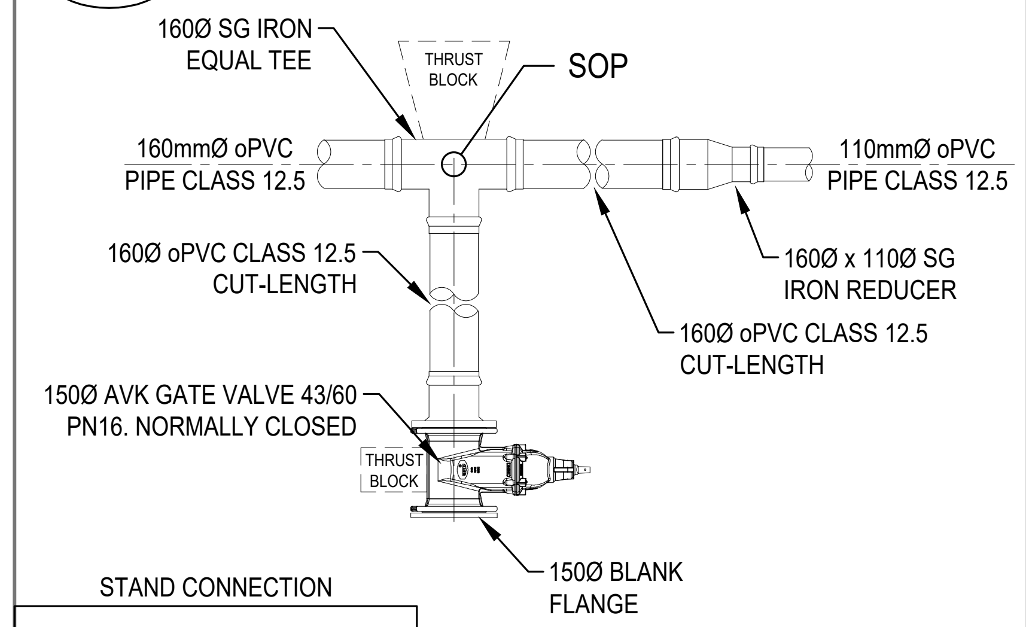

160Ø SG IRON FLANGE ADAPTOR
150Ø AVK GATE VALVE 43/60 PN16
160mmØ oPVC PIPE CLASS 12.5
160mmØ oPVC PIPE CLASS 12.5
THRUST BLOCK
SOP
160Ø SG IRON FLANGE ADAPTOR

SET OUT POINT (SOP)
Y: 2 848 060.268
X: 66 606.96

NOT TO SCALE

IW15

REFER TO COT STANDARD DRAWING 7515-W203 FOR VALVE CHAMBER - TYPE A


160Ø SG IRON EQUAL TEE
THRUST BLOCK
SOP
160mmØ oPVC PIPE CLASS 12.5
110mmØ oPVC PIPE CLASS 12.5
160Ø oPVC CLASS 12.5 CUT-LENGTH
160Ø x 110Ø SG IRON REDUCER
160Ø oPVC CLASS 12.5 CUT-LENGTH
150Ø AVK GATE VALVE 43/60 PN16. NORMALLY CLOSED
THRUST BLOCK
150Ø BLANK FLANGE

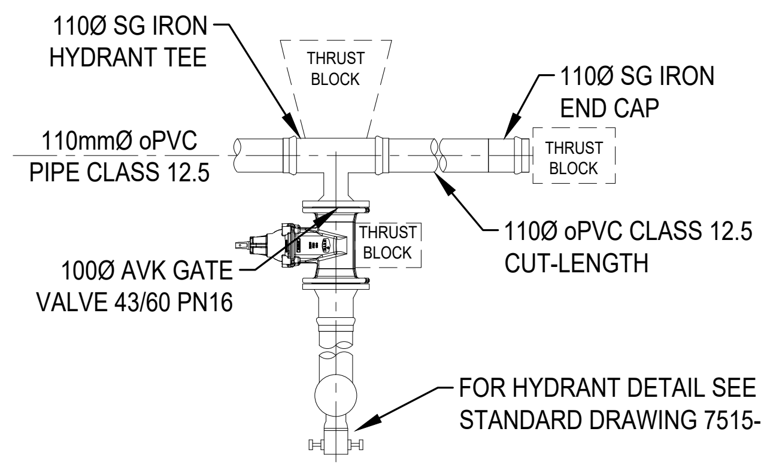
STAND CONNECTION

SET OUT POINT (SOP)
Y: 2 848 092.141
X: 66 522.199

NOT TO SCALE

IW16

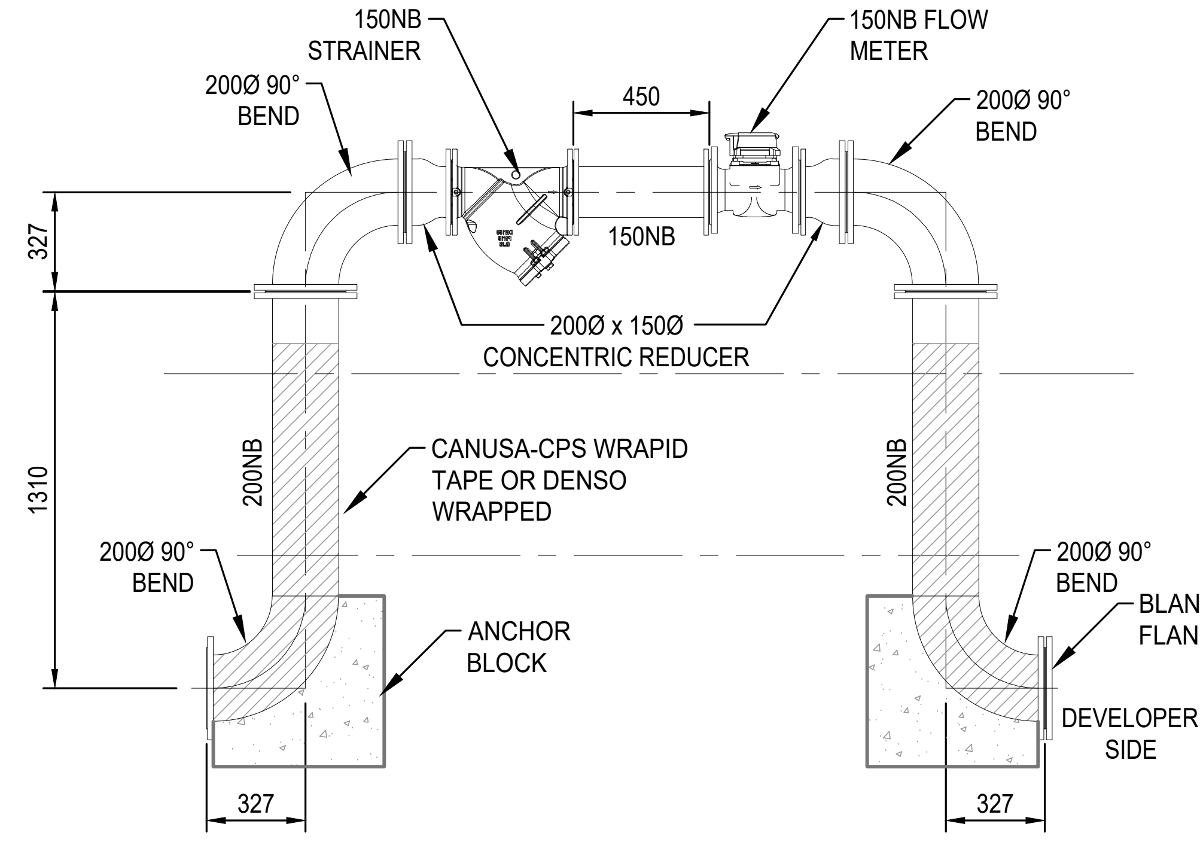
REFER TO COT STANDARD DRAWING 7515-W203 FOR VALVE CHAMBER - TYPE A


110Ø SG IRON HYDRANT TEE
THRUST BLOCK
110Ø SG IRON END CAP
110mmØ oPVC PIPE CLASS 12.5
THRUST BLOCK
THRUST BLOCK
110Ø oPVC CLASS 12.5 CUT-LENGTH
100Ø AVK GATE VALVE 43/60 PN16
FOR HYDRANT DETAIL SEE COT STANDARD DRAWING 7515-W208

SET OUT POINT (SOP)
Y: 2 848 102.463
X: 66 494.749

NOT TO SCALE

IW17


150NB STRAINER
150NB FLOW METER
200Ø 90° BEND
450
200Ø 90° BEND
327
150NB
200Ø x 150Ø CONCENTRIC REDUCER
1310
200NB
CANUSA-CPS WRAPID TAPE OR DENSO WRAPPED
200NB
200Ø 90° BEND
200Ø 90° BEND
BLANK FLANGE
ANCHOR BLOCK
DEVELOPER SIDE
327
327

NOT TO SCALE

NOTES:

1. MILD STEEL (MS) HEAVY WEIGHT PIPES TO BE SANS 62 FOR SIZES ≤ 150mm ø.
2. MILD STEEL (MS) 6mm WALL THICKNESS PIPES TO BE SANS 719 FOR SIZES ≥ 200mm ø.
3. PROTECTION CODES :
   B - INTERNAL PIPE COATING: 500 MICRON EPOXY COATING SCOTCHKOTE 162 PWX.
   EXTERNAL PIPE COATING: 500 MICRON EPOXY COATING SCOTCHKOTE 162 HB.
4. ALL FLANGES TO BE SANS 1123 1600/3
5. ALL BURIED MS PIPES TO BE WRAPPED WITH CANUSA-CPS WRAPID TAPE OR DENSO WRAPPED TO 100mm ABOVE FINISHED GROUND
6. ALL THREADED HDPE CONNECTIONS WITH PTFE TAPE.
7. ALL THREADED MS PIPING CONNECTIONS WITH HEMP & PASTE
8. ALL STUDS BOLTS, SABS 1700-5-1 GR8.8, HOT DIPPED GALVANISED, THREAD TO SABS 1700-2-4.
9. ALL HEX NUTS, NORMAL WEIGHT, SABS 700-14-1, GR8.8, HOT DIPPED GALVANISED.
10. ALL WASHERS, FLAT, NORMAL, HOT DIPPED GALVANISED.
11. DETAILS DRAWN FOR SCHEMATIC PURPOSES ONLY.
12. REFER TO COT STANDARD DRW 7515-W210 FOR THRUST BLOCK INFORMATION.

REFERENCE DRAWINGS

NUMBER	DRAWING DESCRIPTION
35213-00-140-01-01	INDUSTRIAL WATER AREA

COEGA

CITY OF TSHWANE
IGNITING EXCELLENCE
PO BOX 1022
PRETORIA
0001

CITY OF TSHWANE

WATER AND SANITATION DEPARTMENT

AMENDMENTS

NR	DATE	APPROVED	DESCRIPTION	PAR
AA	04/06/2024	C.H.	ISSUED TO COT FOR APPROVAL	
BB	19/06/2024	C.H.	RE-ISSUED FOR COT APPROVAL	
.	.	.	.	
.	.	.	.	
.	.	.	.	
.	.	.	.	

WATER AND SANITATION

FOR INTERNAL APPROVAL - RECEIVED SIGN WHEN APPLICABLE

DIRECTOR: W&S INFRASTRUCTURE PLANNING AND SYSTEM DEVELOPMENT
NAME Prof. Reg. No SIGNATURE DATE
REGIONAL DIRECTOR: (1,2,3,4,5,6 or 7)
NAME Prof. Reg. No SIGNATURE DATE
DIRECTOR: WATER CONSERVATION AND WATER DEMAND MANAGEMENT
NAME Prof. Reg. No SIGNATURE DATE
DIRECTOR: BULK WATER
NAME Prof. Reg. No SIGNATURE DATE
DIRECTOR: INFRASTRUCTURE PROVISION
NAME Prof. Reg. No SIGNATURE DATE
DIRECTOR: WASTE WATER TREATMENT
NAME Prof. Reg. No SIGNATURE DATE

bvi ENGINEERING PROCUREMENT MANAGEMENT CESA GREEN BUILDING COUNCIL

BVi Consulting Engineers Gauteng PTY (Ltd)
Registration no. 1998/000322/07
Visit or contact us online at www.bvi.co.za
PROVINCE Gauteng OFFICE Pretoria +27 12 940 1111 E-MAIL pta@bvi.co.za

I, C HARMSE Prof Reg Nr 201170043
HEREBY CERTIFY THAT THE SERVICES WILL\ HAVE BEEN INSTALLED ACCORDING TO NOTE 9 OF THE ABOVE NOTES AND TO THE DRAWING

SIGNATURE
DATE 21/06/2024

CONSULTANT DRAWING NUMBER:
35213-00-145-01-01
BB REVISION

DESIGNED
NAME: C van WIJK Pr Eng. Prof Reg No: .
SIGNATURE: DATE:

DRAWN
NAME: C HEYSTEK Prof Reg No: .
SIGNATURE: DATE:

CHECKED
NAME: C.HARMSE Pr Eng. Prof Reg No: 201170043
SIGNATURE: DATE:

INFORMATION OFFICE CHECKED
NAME: Pr Eng. Prof Reg No:
SIGNATURE: DATE:

DESIGN OFFICE APPROVAL
NAME: Prof Reg No:
SIGNATURE: DATE:

CONTRACT No:
PROJECT No. 35213-00
SHEET No. 1
PAPER SIZE: A1
SCALE: N.T.S.
DATE: 04/06/2024

PROJECT STATUS

RECEIVED SIGN WHEN APPLICABLE

○ CONCEPT DRAWING ● TENDER DRAWING ○ APPROVED CONSTRUCTION DRAWING ○ AS BUILT DRAWING

PROJECT ENGINEER of COT:
NAME: Pr Eng. Prof Reg No:
SIGNATURE: DATE:

INSPECTOR OF WORKS of COT:
NAME: Prof Reg No:
SIGNATURE: DATE:

LOCATION OF PROJECT:
SAMCOR PARK EXT. 10
SILVERTON PORTION R/3 - WILLOWS 340 JR

DESCRIPTION OF PROJECT:
PHASE 2 BULK WATER INFRASTRUCTURE FOR TASEZ: INDUSTRIAL WATER CONNECTION DETAILS

WBS No. : _-_____-_-___-_-_

COT DRAWING NUMBER: _-_____-_-___-_-_

REVISION

P:\35213-00\16 Drawings\16.4 Civil\140 - Water\35213-00-145-01-01 RBB