

TYPICAL WATER CONNECTION

MINIMUM PIPE COVER

OD PIPE $\phi$	PIPE COVER	
	MINIMUM	MAXIMUM
25 - 63	450	750

TRENCH WIDTH

OD PIPE $\phi$	TRENCH WIDTH	
	MINIMUM	MAXIMUM
25 - 63	300	600

**WATER CONNECTION NOTES:**

1. DIRECT TAPPING IS NOT PERMITTED INTO ANY PIPE TYPE.
2. REFER 4005-30002-01 TO 4005-30002-04 FOR GENERAL NOTES.
3. REFER 4005-30006-03 & 4005-30006-04 FOR APPROVED TAPPING FITTINGS & METHODOLOGIES FOR NEW OR EXISTING WATER MAINS.
4. NO FIELD BUTT WELDING OF PE CONNECTION TUBING PERMITTED.
5. REFER SECTION 3 FOR TRENCH & EMBEDMENT REQUIREMENTS.
6. REFER THE DESIGN DRAWINGS & SECTION 4 FOR POSITIONING OF THE CONNECTION.
7. REFER 4005-30002-04, TABLE 1 FOR INFORMATION ON THE USE OF PRETAPPED CONNECTORS, TAPPING SADDLES, TAPPING BANDS AND TAPPED COLLARS.
8. THE MINIMUM DISTANCE BETWEEN PRETAPPED CONNECTORS, TAPPING SADDLES, TAPPING BANDS AND TAPPED COLLARS SHALL BE MINIMUM 600 OR IF PIPE DN IS > 300, IN ACCORDANCE WITH 4005-30002-02, TABLE 1.
9. THE MAXIMUM SIZE HOLE PERMITTED TO BE DRILLED IN ANY PIPE IS 32 mm. DRILL HOLE SIZE SHALL BE:
  - 18 FOR DN20 & DN25 PIPE.
  - 32 FOR DN40 & DN50 PIPE.

10. ADJACENT HOLES SHALL BE DRILLED AT SLIGHTLY DIFFERENT ANGLES TO THE HORIZONTAL.
11. THE PE CONNECTION PIPE SHALL BE SNAKED IN THE TRENCH HORIZONTALLY.
12. CONNECTIONS SHALL BE PERPENDICULAR TO THE WATER MAIN, A CONSTRUCTION TOLERANCE OF  $\pm 5^\circ$  (87 mm / 1 METRE) IS PERMISSIBLE. REFER NOTE 13.
13. IF WATER CONNECTION IS NOT LAID PERPENDICULAR TO THE MAIN, GREEN DETECTABLE MARKER TAPE SHALL BE BURIED APPROX 150 DIRECTLY ABOVE PE. TAPE MARKED ("CAUTION - WATER MAIN BURIED BELOW").
14. FOR OD50 AND OD63 PE WATER CONNECTIONS THE GREEN DETECTABLE MARKER TAPE IS MANDATORY.
15. WHERE MAINCOCK INSTALLED ON TAPPING FITTING, THE PLUG OF THE MAINCOCK SHALL BE TURNED TO ON PRIOR TO BACKFILLING OF TRENCH.
16. PE PIPEWORK CONNECTOR TO THE METER INLET RISER SHALL BE SUCH THAT RISER CAN BE REMOVED WITHOUT CUTTING THE PE TUBING.
17. PRELAI D WATER CONNECTION INLET RISERS SHALL BE INSTALLED IN THE VERTICAL POSITION. THE SA WATER REPRESENTATIVE MAY DIRECT FOR THEM TO BE BURIED SO THEY WILL BE LAID HORIZONTALLY TO THE LEFT AS VIEWED FROM THE MAIN.
18. ALL DIMENSIONS IN MILLIMETRES.

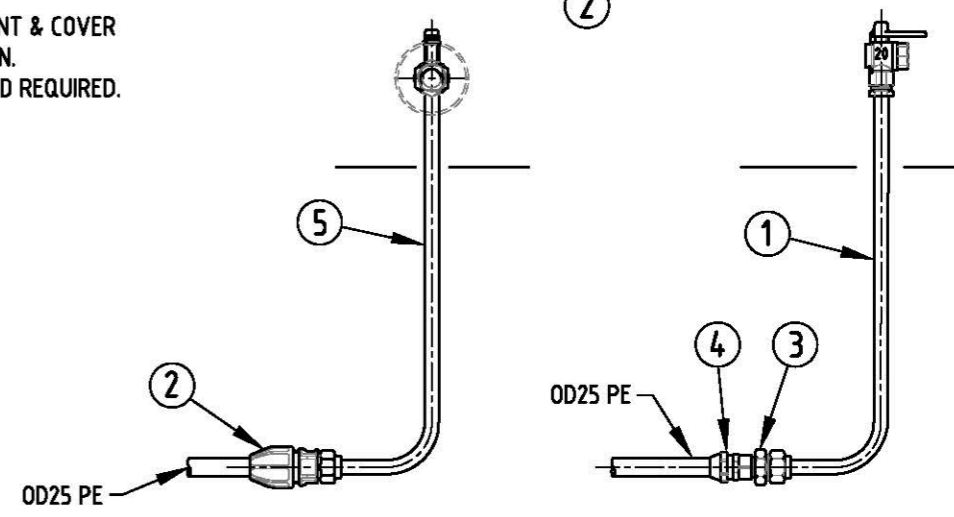
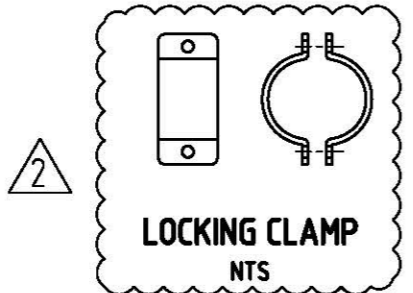
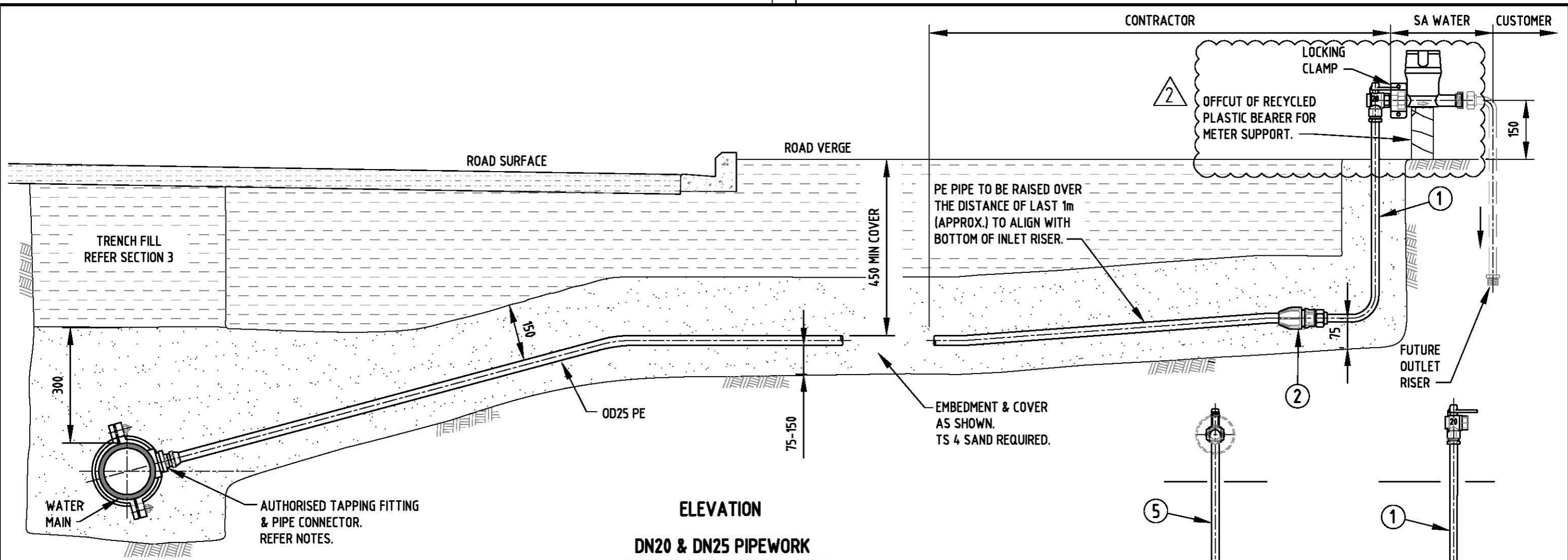
REVISION PANEL				
REV	DATE	DRN	DETAILS	APR
2	28/09/17	RP	TAPPING DIMENSION CHANGE, MINOR AMENDMENTS	
1	31/03/16	MS	2016 STANDARDS REVIEW	TG

DESIGN PANEL			
DESIGNED:	28/09/15	AUTHORISED:	31/03/16
RJP		T.GALEK	
DRAWN:	16/11/15	SIGNATURE:	
MS		ORIGINAL SIGNED	
REVIEWED:	21/03/16		
TG			

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**SA WATER STANDARD DRAWINGS**  
**WATER SUPPLY CONSTRUCTION MANUAL**  
  
**WATER CONNECTIONS**  
**TYPICAL LAYOUT & NOTES**

A3 SHT SIZE  
 2 REVISION  
 TOTAL SHEETS:  
 SUPERSEDES: 96-0080-01 (E1)  
 DRAWING NUMBER  
**4005-30006-01**  
 PREFIX NUMBER SHEET



- NOTES:**
1. DIRECT TAPPING IS NOT PERMITTED INTO ANY PIPE.
  2. THIS DRAWING SHALL BE CONSIDERED FOR NEW WATER CONNECTIONS OFF **NEW OR EXISTING** WATER MAINS.
  3. REFER 4005-30002-01 (TO 4005-30002-04) FOR GENERAL NOTES.
  4. REFER 4005-30006-01 FOR WATER CONNECTION NOTES & REQUIREMENTS.
  5. REFER THE DESIGN DRAWINGS & SECTION 4 FOR POSITIONING OF THE CONNECTION.
  6. REFER SECTION 3 FOR TRENCH & EMBEDMENT REQUIREMENTS.
  7. REFER 4005-30006-03 & 4005-30006-04 FOR APPROVED TAPPING FITTINGS & METHODOLOGIES FOR NEW OR EXISTING WATER MAINS.
  8. IF MAINCOCK SPECIFIED IT SHALL BE LOCATED ADJACENT THE WATER MAIN TAPPING FITTING.
  9. FOR DN 20 METERS, THE CONTRACTOR SHALL FIT THE WATER METER AND LOCKING CLAMP PRIOR TO CPC.
  10. THE LOCKING CLAMP SHALL BE FIXED ONTO THE TAILPIECE UNION.
  11. THE WATER METER SHALL BE SUPPORTED PRIOR TO INSTALLATION OF THE OUTLET RISER.
  12. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.

ITEM	DESCRIPTION	REMARKS
1	INLET RISER (DN 20)	(LENGTH 530)
2	END CONNECTOR MALE	PE 25 x 1" BSP
3	REDUCER NIPPLE	DR BRASS (25-20 NOM)
4	END CONNECTOR FEMALE	TITA GM22
5	INLET RISER (DN 25)	(LENGTH 530)

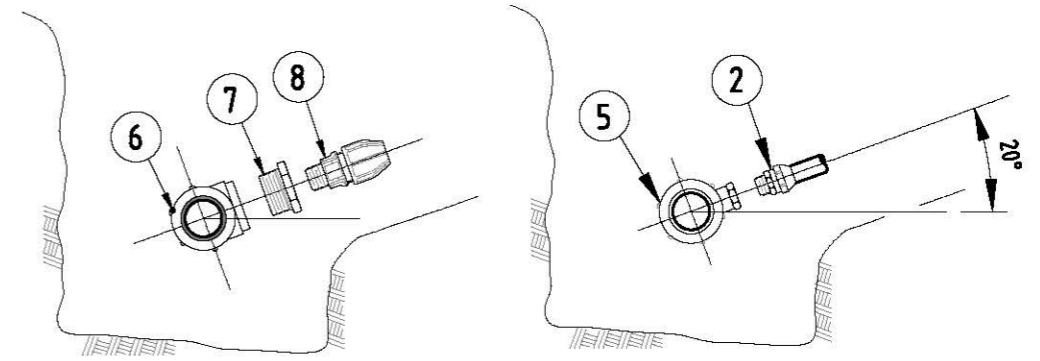
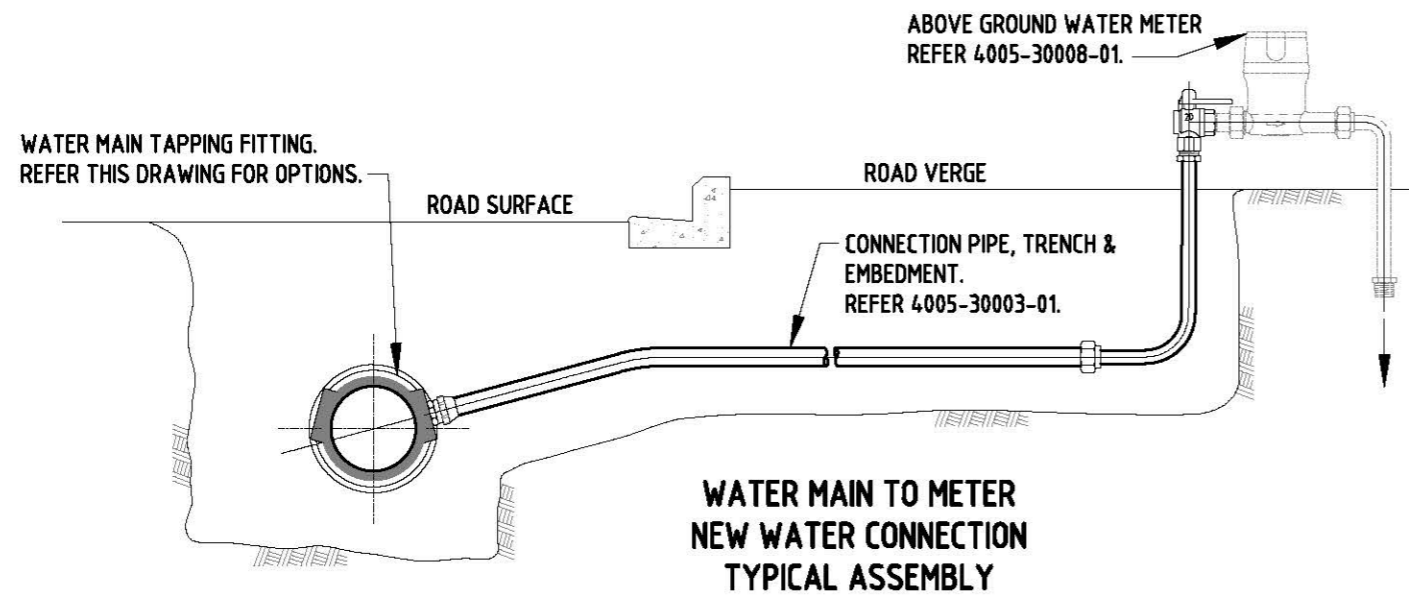
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REV	DATE	DRN	DETAILS	APR
2	21/06/18	RP	WATER METER & LOCKING CLAMP ADDED.	TG
1	31/03/16	MS	2016 STANDARDS REVIEW	TG

DESIGN PANEL		
DESIGNED:	AUTHORISED:	
28/09/15 RJP	31/03/16 T.GALEK	
DRAWN: 16/11/15 MS	SIGNATURE:	
REVIEWED: 21/03/16 TG	ORIGINAL SIGNED	

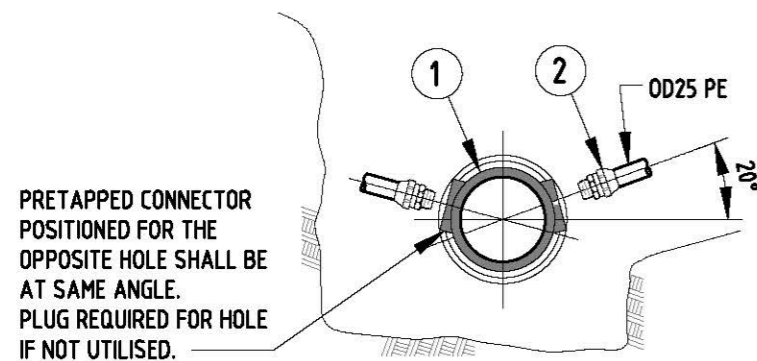
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**SA WATER STANDARD DRAWINGS**  
**WATER SUPPLY CONSTRUCTION MANUAL**  
**DN20 & DN25 CONNECTIONS**  
**WATER MAIN TO WATER METER**

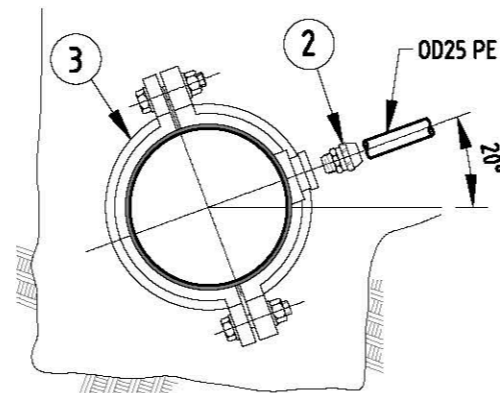
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TOTAL SHEETS:	
SUPERSEDES: E2, E3	
DRAWING NUMBER	
4005-30006-02	
PREFIX	NUMBER SHEET



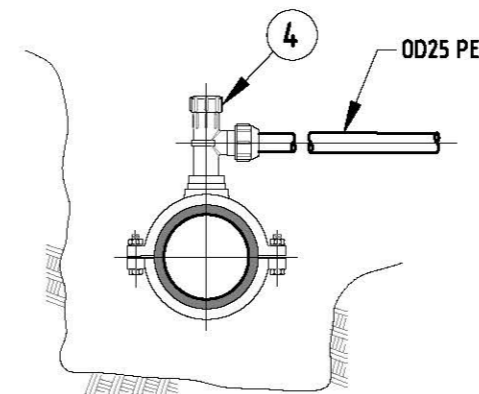
**NEW PE MAIN  
OD63  
MECHANICAL TEE**



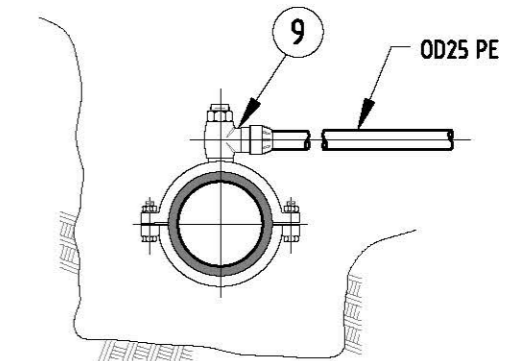
**NEW PVC & DICL MAINS  
DN100/ DN150  
PRETAPPED CONNECTOR**



**NEW PVC & DICL MAINS  
DN200 - DN375  
TAPPING SADDLE**



**NEW PE MAINS  
OD63 - OD250  
PE TAPPING SADDLE**



**NEW PE MAINS  
OD63 - OD250  
SELF TAPPING FERRULE SADDLE**

ITEM	DESCRIPTION	REMARKS
1	PRETAPPED CONNECTOR	SINGLE OR DOUBLE OPTIONS
2	BRASS END CONNECTOR	TITA GM22
3	TAPPING SADDLE	FITTING DEPENDENT UPON PIPE MATERIAL & DIAMETER
4	ELECTROFUSION PLASTIC TAPPING SADDLE (WITH SS CUTTER)	SADDLES AVAILABLE WITH 20 mm OR 25 mm OFFTAKES
5	PE REDUCING TEE	TEES AVAILABLE WITH 20 mm OR 25 mm BRANCHES
6	PE TEE (FEMALE)	63 mm x 2" BSP
7	BUSH	2" BSP x 1" BSP
8	PE END CONNECTOR	25 mm x 1" BSP
9	SELF TAPPING FERRULE SADDLE	25 mm x 1" BSP

**NOTES:**

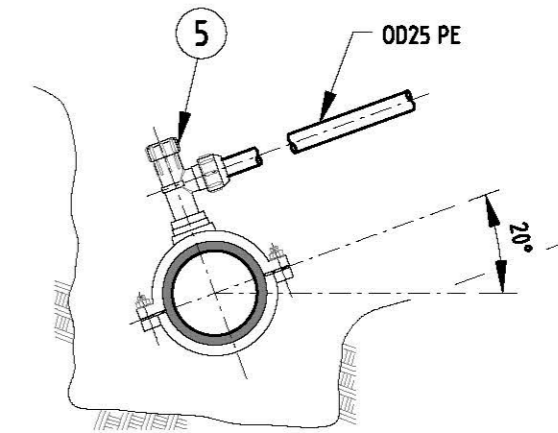
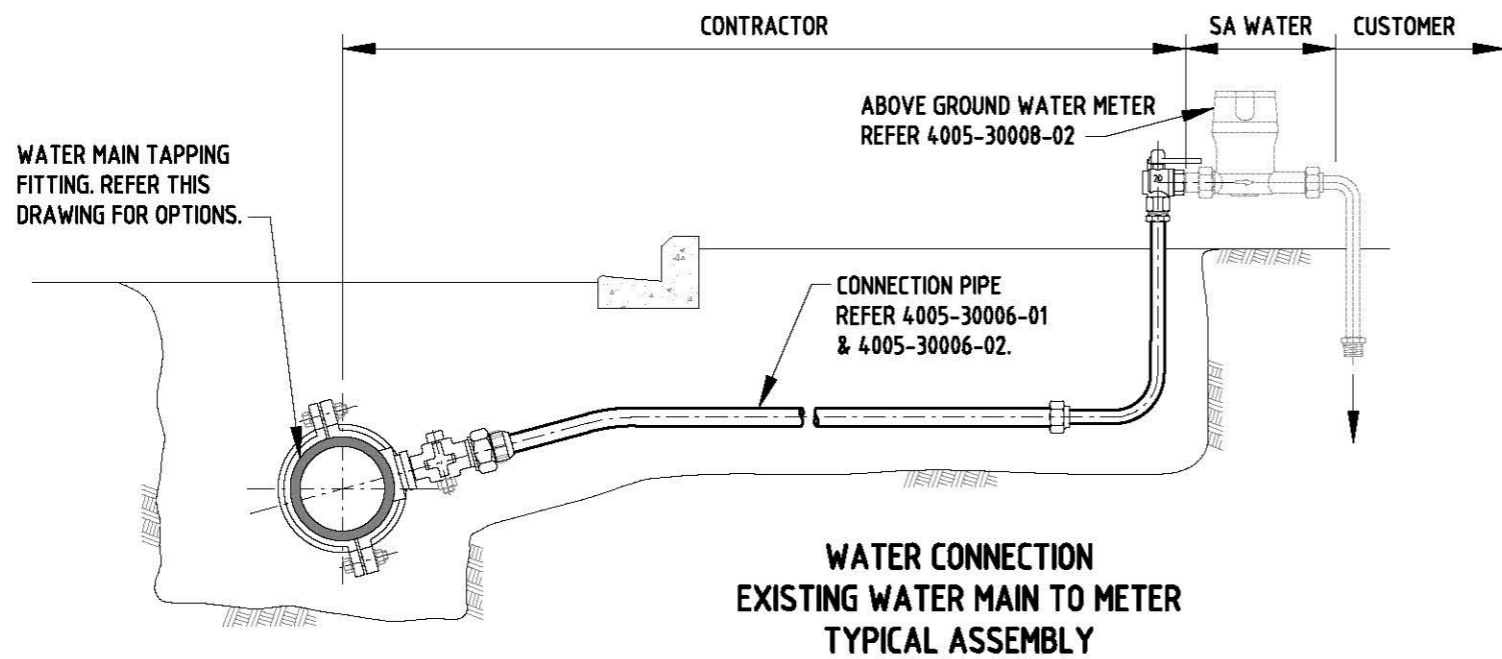
- DIRECT TAPPING IS NOT PERMITTED INTO ANY PIPE.
- REFER 4005-30002-01 & 4005-30002-02 FOR GENERAL NOTES.
- REFER SECTION 3 FOR TRENCH & EMBEDMENT REQUIREMENTS.
- REFER DESIGN DRAWINGS & 4005-30006-01, 4005-30006-02 FOR POSITIONING OF THE CONNECTION.
- WHERE PREFERRED ANGLE OF FITTING CANNOT BE ACHIEVED THE SA WATER REPRESENTATIVE'S APPROVAL SHALL BE SOUGHT FOR AN ALTERNATIVE.
- WRAPPING OF ALL FITTINGS SHALL BE IN ACCORDANCE WITH TS 18. STAINLESS STEEL COMPONENTS & GUNMETAL SADDLES ON PVC & AC MAINS DO NOT REQUIRE WRAPPING.

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1	31/03/16	MS	2016 STANDARDS REVIEW	TG	

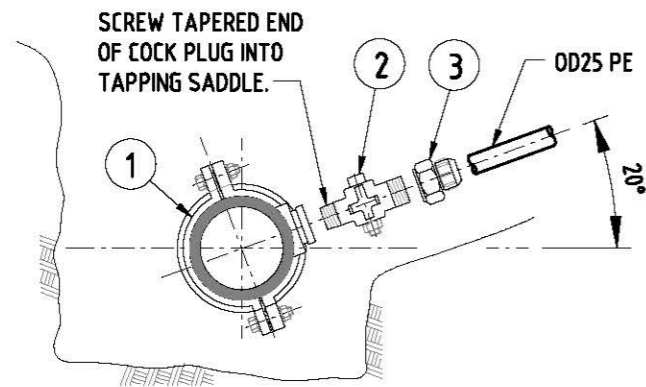
DESIGN PANEL			
DESIGNED:	28/09/15	AUTHORISED:	31/03/16
	RJP		T.GALEK
DRAWN:	16/11/15	SIGNATURE:	
	MS		<i>T. Galek</i>
REVIEWED:	21/03/16		
	TG		

**SA WATER STANDARD DRAWINGS  
WATER SUPPLY CONSTRUCTION MANUAL  
WATER CONNECTIONS FROM NEW MAIN  
APPROVED TAPPING METHODS  
DN20 & DN25 CONNECTIONS**

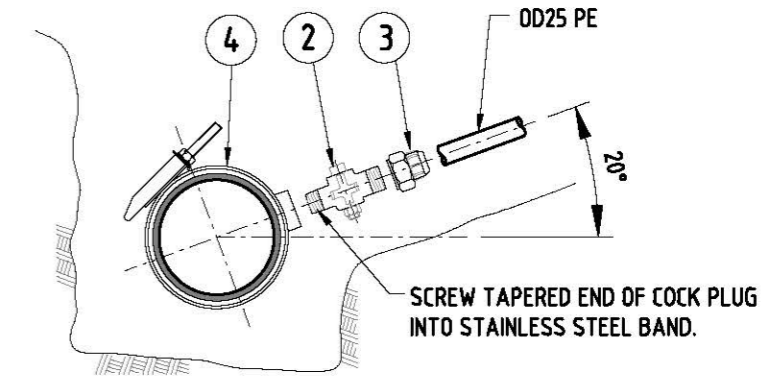
A3	1
SHT SIZE	REVISION
TOTAL SHEETS:	
SUPERSEDES: E8, E9	
DRAWING NUMBER	
4005-30006-03	
PREFIX	NUMBER SHEET



**EXISTING PE MAINS  
OD63 - OD250  
PE TAPPING SADDLE**



**EXISTING PVC, DI, CI & AC MAINS  
DN100 - DN375  
TAPPING SADDLE**



**EXISTING PVC, DI, CI & AC MAINS  
DN100 - DN375  
S/S TAPPING BAND**

**NOTES:**

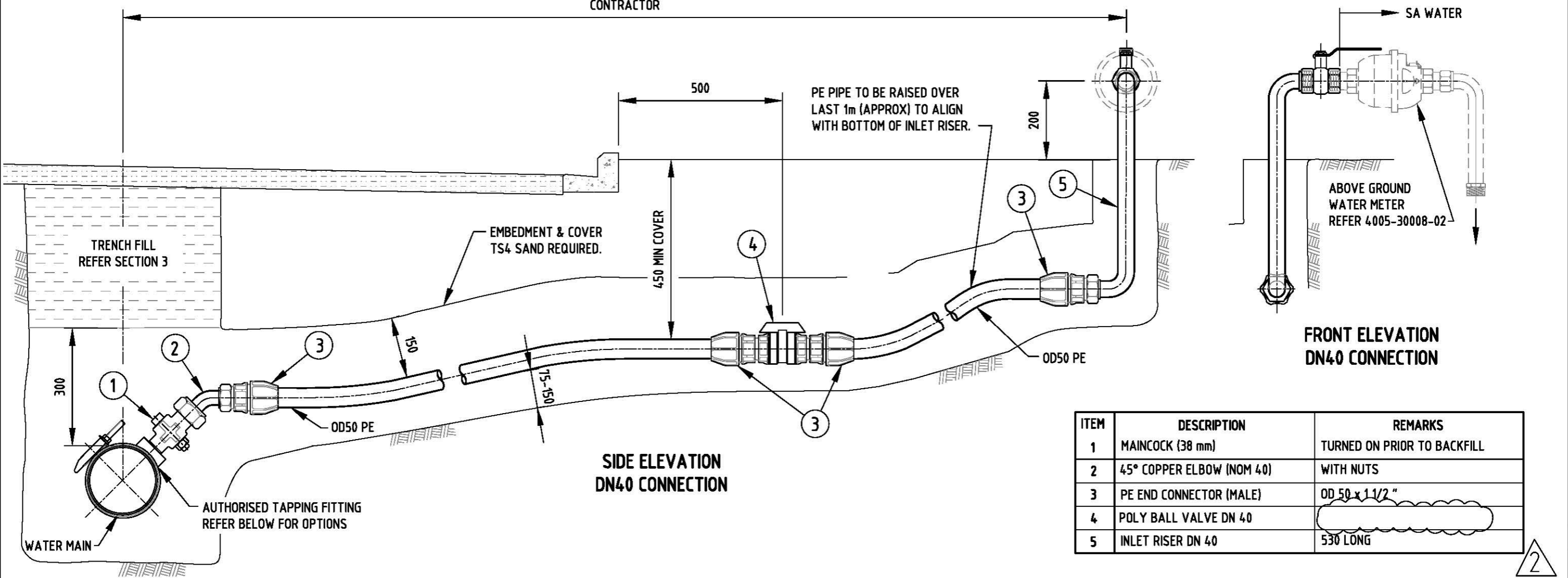
1. DIRECT TAPPING IS NOT PERMITTED INTO ANY PIPE.
2. REFER 4005-30002-01 & 4005-30002-02 FOR GENERAL NOTES.
3. REFER SECTION 3 FOR TRENCH & EMBEDMENT REQUIREMENTS.
4. REFER DESIGN DRAWINGS & 4005-30006-01, 4005-30006-02 FOR POSITIONING OF THE CONNECTION.
5. WHERE PREFERRED ANGLE OF FITTING CANNOT BE ACHIEVED THE SA WATER REPRESENTATIVE'S APPROVAL SHALL BE SOUGHT FOR AN ALTERNATIVE.
6. WRAPPING OF ALL FITTINGS SHALL BE IN ACCORDANCE WITH TS 18. STAINLESS STEEL COMPONENTS & GUNMETAL SADDLES ON PVC & AC MAINS DO NOT REQUIRE WRAPPING.
7. WHERE EXISTING MAIN IS MSCL REFER 4005-30006-07 FOR TAPPING OPTIONS.
8. ALL DIMENSIONS IN MILLIMETRES.

ITEM	DESCRIPTION	REMARKS
1	TAPPING SADDLE	FITTING DEPENDENT UPON PIPE MATERIAL & DIAMETER
2	COCK PLUG (20mm)	TURNED ON FOLLOWING INSTALLATION
3	BRASS-PE INSULATED END CONNECTOR	ENSURE BLUE INSERT USED
4	STAINLESS STEEL TAPPING BAND	
5	PLASTIC TAPPING SADDLE (WITH STAINLESS STEEL CUTTER)	SADDLES AVAILABLE WITH 20 mm OR 25 mm OFFTAKES

REVISION PANEL				DESIGN PANEL		 SA Water Government of South Australia	SA WATER STANDARD DRAWINGS	A3	1
REV	DATE	DRN	DETAILS	APR	CURRENT REV		DESIGNED: 28/09/15	WATER SUPPLY CONSTRUCTION MANUAL	SHT SIZE
					AUTHORISED:	AUTHORISED: 31/03/16	WATER CONNECTIONS FROM EXISTING MAIN	TOTAL SHEETS:	
					SIGNATURE:	SIGNATURE:	APPROVED TAPPING METHODS	SUPERSEDES: E8, E9	
							DN20 & DN25 CONNECTIONS	DRAWING NUMBER	
1	31/03/16	MS	2016 STANDARDS REVIEW	TG				4005-30006-04	
								PREFIX	NUMBER SHEET

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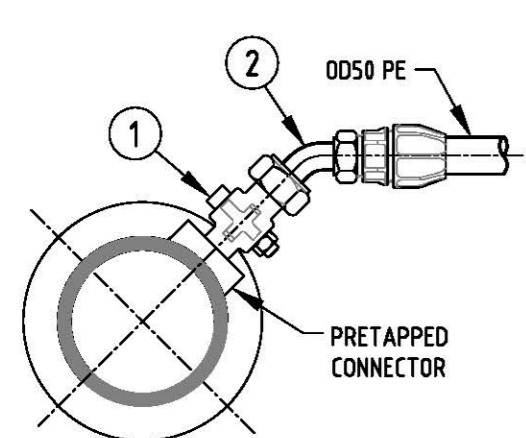
CONTRACTOR



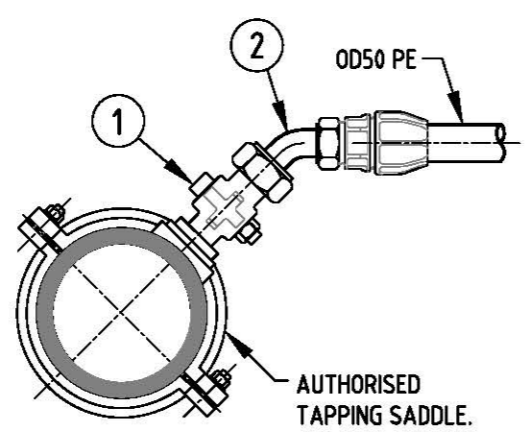
**SIDE ELEVATION  
DN40 CONNECTION**

**FRONT ELEVATION  
DN40 CONNECTION**

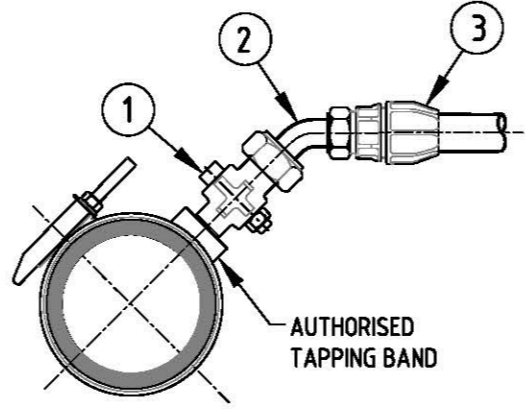
ITEM	DESCRIPTION	REMARKS
1	MAINCOCK (38 mm)	TURNED ON PRIOR TO BACKFILL
2	45° COPPER ELBOW (NOM 40)	WITH NUTS
3	PE END CONNECTOR (MALE)	OD 50 x 1 1/2"
4	POLY BALL VALVE DN 40	
5	INLET RISER DN 40	530 LONG



**NEW PVC & DICL MAINS  
DN100 & DN150  
PRETAPPED CONNECTOR**



**NEW PVC & DICL MAIN  
DN200 - DN375  
TAPPING SADDLE**



**EXISTING PVC, DICL,  
CICL OR AC MAINS  
DN 100- DN375  
S/S TAPPING BAND**

**NOTES:**

- DIRECT TAPPING IS NOT PERMITTED INTO ANY PIPE.
- REFER 4005-30002-01 & 4005-30002-02 FOR GENERAL NOTES.
- THIS DRAWING SHALL BE CONSIDERED FOR NEW WATER CONNECTIONS OFF **NEW OR EXISTING** WATER MAINS.
- REFER 4005-30006-01 FOR GENERAL NOTES & REQUIREMENTS FOR WATER CONNECTIONS.
- REFER THE DESIGN DRAWINGS & SECTION 4 FOR POSITIONING OF THE CONNECTION.
- WHERE A STAINLESS STEEL TAPPING BAND IS USED FOR DICL OR CICL MAINS, AN AUTHORISED PLASTIC NIPPLE (BSP 1 1/2") SHALL BE SCREWED INTO PIPE & TRIMMED TO PIPE OUTER SURFACE.
- MAINCOCK REQUIRED FOR ALL DN 40 CONNECTIONS.
- MAINCOCK SHALL BE LOCATED ADJACENT THE WATER MAIN TAPPING FITTING.
- WHERE EXISTING MAIN IS MSCL REFER 4005-30006-07 FOR TAPPING OPTIONS.
- DIRECT TAPPING IS NOT PERMITTED INTO ANY PIPE.
- AUTHORISED GREEN DETECTABLE MARKER TAPE SHALL BE LAID APPROX. 150 ABOVE PIPE.
- WRAPPING OF ALL FITTINGS SHALL BE IN ACCORDANCE WITH TS 18. STAINLESS STEEL COMPONENTS & GUNMETAL SADDLES ON PVC & AC MAINS DO NOT REQUIRE WRAPPING.
- REFER SECTION 3 FOR TRENCH & EMBEDMENT REQUIREMENTS.
- ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.

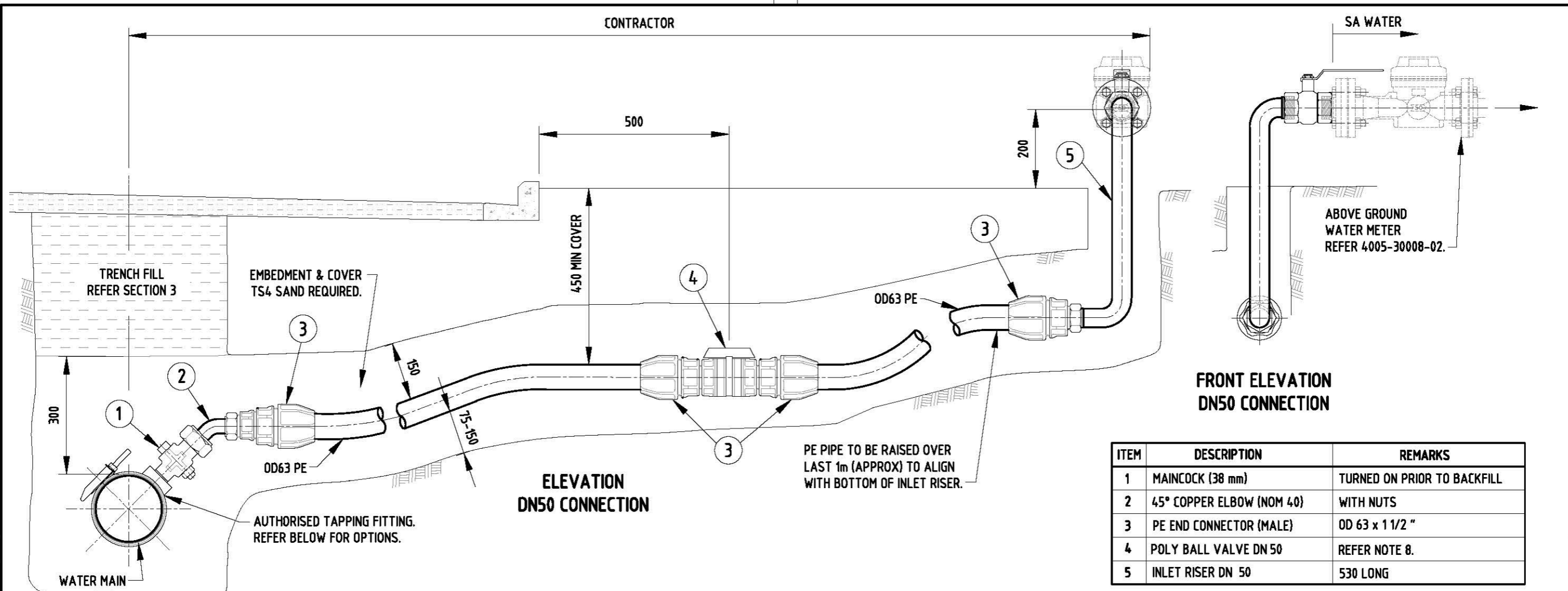
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REV	DATE	DRN	DETAILS	APR
2	19/07/16	PC	ITEM 4 INCORRECT REFERENCE REMOVED	
1	31/03/16	MS	2016 STANDARDS REVIEW	TG

DESIGN PANEL			
DESIGNED:	28/09/15	AUTHORISED:	31/03/16
RJP		T.GALEK	
DRAWN:	16/11/15	SIGNATURE:	
MS			
REVIEWED:	21/03/16	ORIGINAL SIGNED	
TG			

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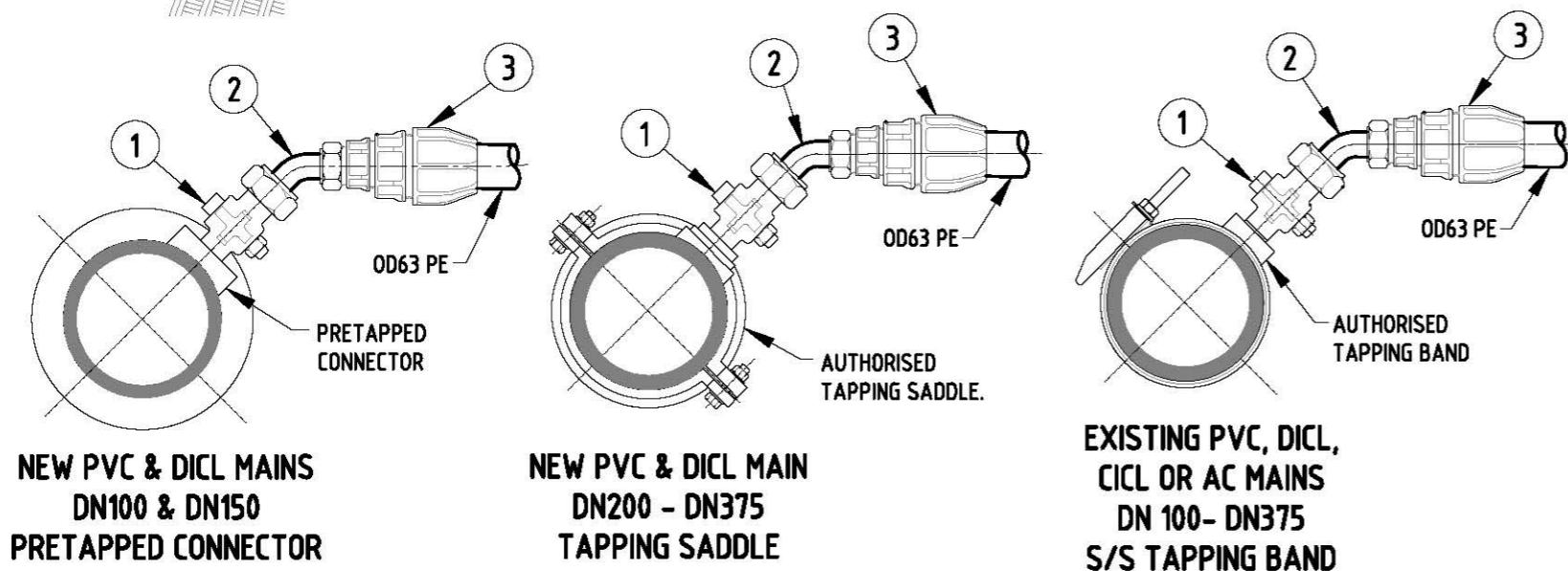
**SA WATER STANDARD DRAWINGS**  
**WATER SUPPLY CONSTRUCTION MANUAL**  
**DN40 CONNECTION**  
**WATER MAIN TO**  
**INLET RISER**

A3	2
SHT SIZE	REVISION
TOTAL SHEETS:	
SUPERSEDES: 91-0065-02 (E6)	
DRAWING NUMBER	
<b>4005-30006-05</b>	
PREFIX	NUMBER SHEET

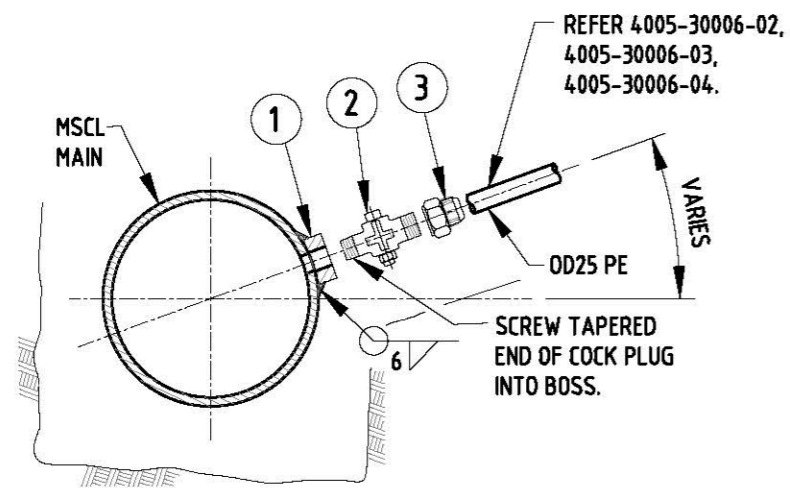


**NOTES:**

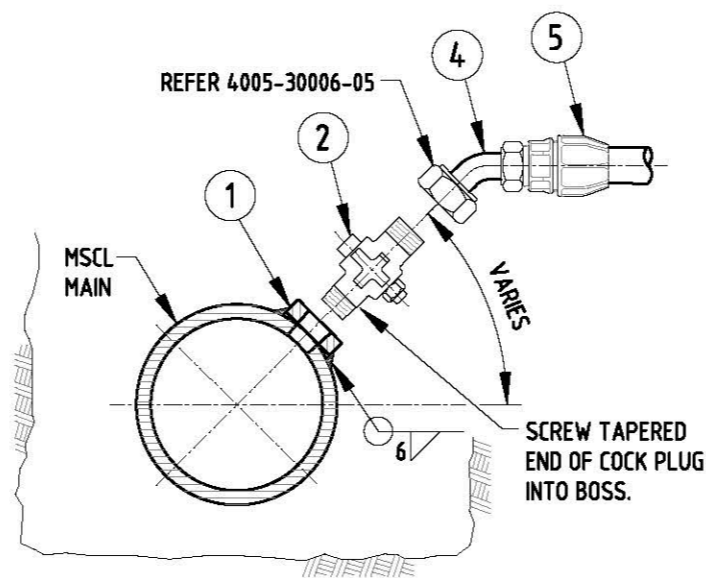
- DIRECT TAPPING IS NOT PERMITTED INTO ANY PIPE.
- REFER 4005-30002-01 & 4005-30002-02 FOR GENERAL NOTES.
- THIS DRAWING SHALL BE CONSIDERED FOR NEW WATER CONNECTIONS OFF **NEW OR EXISTING** WATER MAINS.
- REFER 4005-30006-01 FOR GENERAL NOTES & REQUIREMENTS FOR WATER CONNECTIONS.
- REFER THE DESIGN DRAWINGS & SECTION 4 FOR POSITIONING OF THE CONNECTION.
- WHERE A STAINLESS STEEL TAPPING BAND IS USED FOR DICL OR CICL MAINS, AN AUTHORISED PLASTIC NIPPLE (BSP 1 1/2 ") SHALL BE SCREWED INTO PIPE & TRIMMED TO PIPE OUTER SURFACE.
- MAINCOCK REQUIRED FOR ALL DN 50 CONNECTIONS.
- MAINCOCK SHALL BE LOCATED ADJACENT THE WATER MAIN TAPPING FITTING.
- WHERE EXISTING MAIN IS MSCL REFER 4005-30006-07 FOR TAPPING OPTIONS.
- DIRECT TAPPING IS NOT PERMITTED INTO ANY PIPE.
- AUTHORISED GREEN DETECTABLE MARKER TAPE SHALL BE LAID APPROX. 150 ABOVE PIPE.
- WRAPPING OF ALL FITTINGS SHALL BE IN ACCORDANCE WITH TS 18. STAINLESS STEEL COMPONENTS & GUNMETAL SADDLES ON PVC & AC MAINS DO NOT REQUIRE WRAPPING.
- REFER SECTION 3 FOR TRENCH & EMBEDMENT REQUIREMENTS.
- ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.



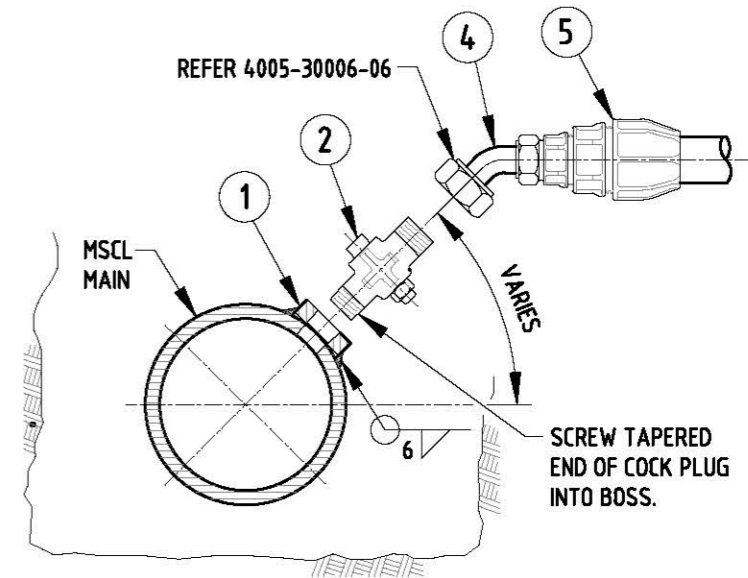
REVISION PANEL					DESIGN PANEL		 SA WATER STANDARD DRAWINGS WATER SUPPLY CONSTRUCTION MANUAL DN50 CONNECTION WATER MAIN TO INLET RISER	A3 SHT SIZE 1 REVISION		
REV	DATE	DRN	DETAILS	APR	CURRENT REV	AUTHORISED:		This drawing is the property of the SOUTH AUSTRALIAN WATER CORPORATION and shall not be copied or modified in part or in whole without authorization.	TOTAL SHEETS:	
					SIGNATURE:	T.GALEK	SUPERSEDES: 91-0066-02 (E7)			
1	31/03/16	MS	2016 STANDARDS REVIEW	TG		T.Galek	DRAWING NUMBER			
							4005-30006-06			
								PREFIX	NUMBER	SHEET



**EXISTING MSCL MAINS DN100 - DN375  
TAPPING INTO CHARGED MAINS (WET TAPPING)  
PE WATER CONNECTIONS (DN20 & DN25 METERS)**



**EXISTING MSCL MAINS DN100 - DN375  
TAPPING INTO CHARGED MAINS (WET TAPPING)  
PE WATER CONNECTIONS (DN40 METERS)  
(USING UNDER PRESSURE TAPPING EQUIPMENT)**



**EXISTING MSCL MAINS DN100 - DN375  
TAPPING INTO CHARGED MAINS (WET TAPPING)  
PE WATER CONNECTIONS (DN50 METERS)  
(USING UNDER PRESSURE TAPPING EQUIPMENT)**

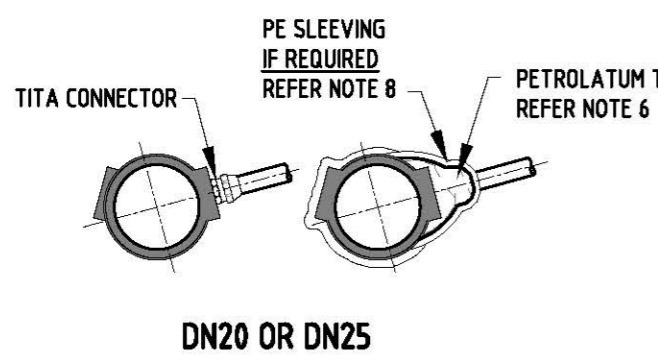
ITEM	DESCRIPTION	REMARKS
1	BOSS TAPPED WELD ON (20mm)	TAPPED BOSS WELDED TO PIPE.
2	MAINCOCK (38mm)	SCREW INTO BOSS. ENSURE TURN ON PRIOR TO BACKFILL.
3	BRASS-PE INSULATED END CONNECTOR	DR BRASS & PE - ENSURE 'BLUE INSERT' IS USED (NOT RED).
4	45° COPPER ELBOW	DN40 & DN50
5	PE END CONNECTOR (MALE)	OD50 & OD63

**NOTES:**

- REFER 4005-30002-01 & 4005-30002-02 FOR GENERAL NOTES.
- THIS DRAWING SHALL BE CONSIDERED FOR NEW WATER CONNECTIONS OFF **NEW OR EXISTING** WATER MAINS.
- WELDING SHALL BE IN ACCORDANCE WITH AS4041, CLASS 2P.
- FOLLOWING WELDING & FITTING OF THE MAINCOCK, THE CONTRACTOR SHALL DRILL & TAP THE MAIN WITH SERIES 'G' INTERNAL FASTENING THREAD IN ACCORDANCE WITH AS1722, PART 2.
- FOR GENERAL NOTES & REQUIREMENTS FOR WATER CONNECTIONS REFER 4005-30006-01.
- REFER THE DESIGN DRAWINGS & SECTION 4 FOR POSITIONING OF THE CONNECTION.
- MAINCOCK REQUIRED FOR ALL CONNECTIONS.
- AUTHORISED GREEN DETECTABLE MARKER TAPE SHALL BE LAID APPROX. 150 ABOVE PIPE.
- REFER SECTION 3 FOR TRENCH & EMBEDMENT REQUIREMENTS.
- ALL DIMENSIONS IN MILLIMETRES.

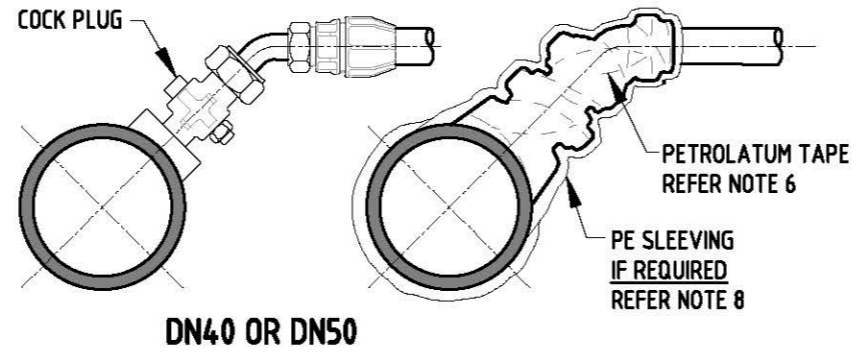
REVISION PANEL				DESIGN PANEL		 SA Water <small>Government of South Australia</small>	<b>SA WATER STANDARD DRAWINGS</b> <b>WATER SUPPLY CONSTRUCTION MANUAL</b> <b>WATER CONNECTIONS</b> <b>CONNECTION OFF MSCL MAIN</b>	A3 <small>SHT SIZE</small> 1 <small>REVISION</small>
REV	DATE	DRN	DETAILS	APR	CURRENT REV		DESIGNED: 28/09/15	AUTHORISED: 31/03/16
					AUTHORISED:	RJP	T.GALEK	SUPERSEDES: E8, E10, E11
					SIGNATURE:	DRAWN: 16/11/15	SIGNATURE:	DRAWING NUMBER
						MS	<i>T. Galek</i>	<b>4005-30006-07</b>
1	31/03/16	MS	2016 STANDARDS REVIEW	TG		TG		PREFIX      NUMBER      SHEET

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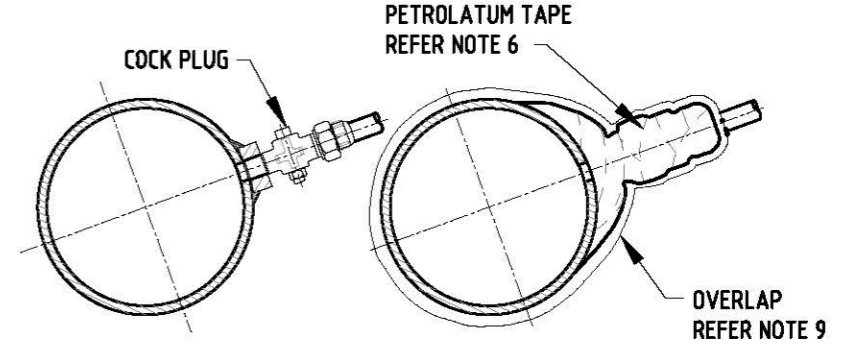


DN20 OR DN25

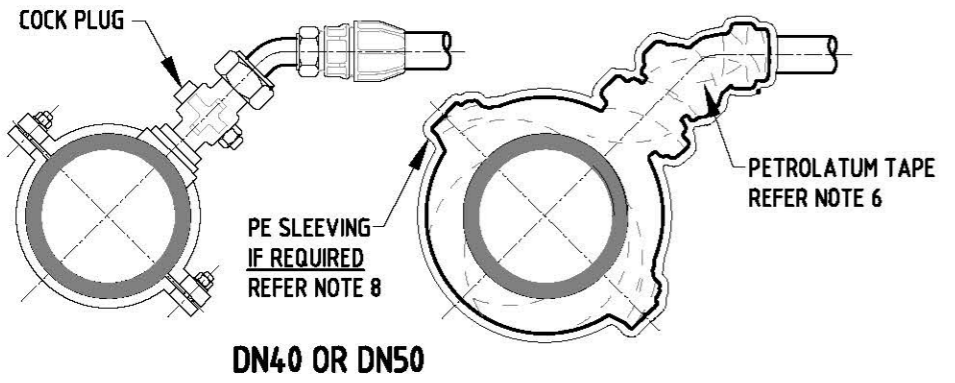
PRETAPPED CONNECTORS



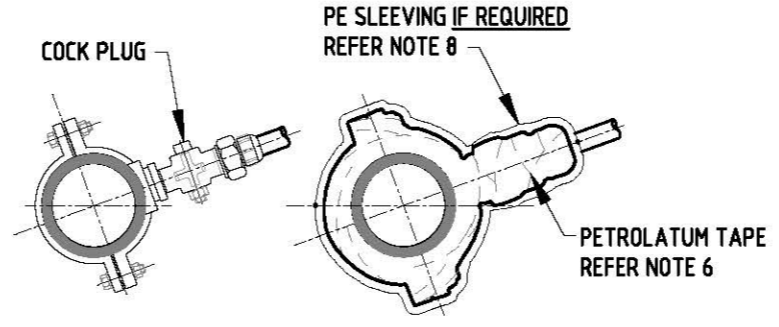
DN40 OR DN50



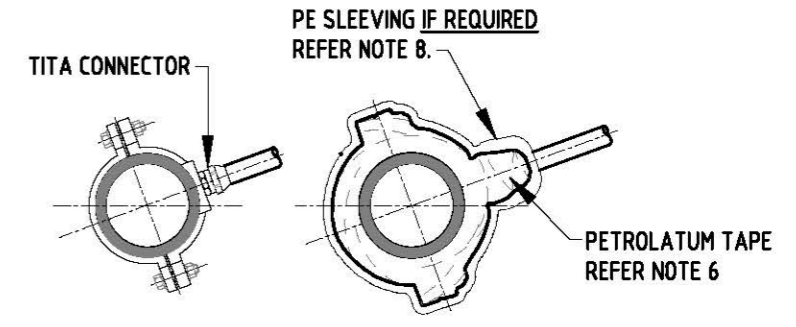
MSCL WELDED BOSS WITH COCK PLUG



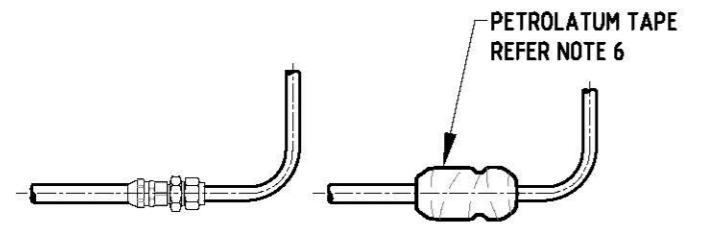
DN40 OR DN50



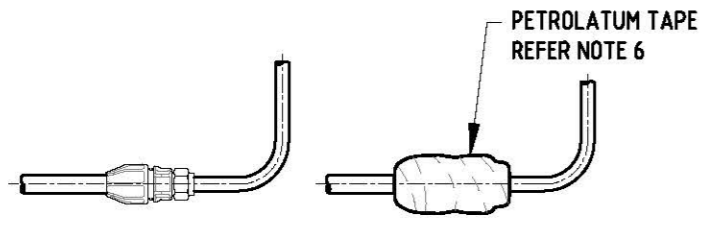
COCK PLUG INSTALLATION TAPPING SADDLES



TITA CONNECTOR INSTALLATION



INLET RISER WITH TITA FITTING



INLET RISER WITH PE CONNECTOR

NOTES:

- REFER 4005-30002-01 & 4005-30002-02 FOR GENERAL NOTES.
- ALL BRASS & GUNMETAL FITTINGS SHALL BE PROTECTED IN ACCORDANCE WITH TS 18.
- FBE & STAINLESS STEEL FITTINGS DO NOT REQUIRE PROTECTIVE WRAPPING UNLESS DAMAGED. REFER NOTE 5 FOR CLARIFICATION OF DAMAGE.
- THE CONTRACTOR SHALL INSPECT ALL FBE & STAINLESS STEEL FITTINGS PRIOR THE INSTALLATION.
- IF DAMAGE IS DETECTED PROCEED USING THESE GUIDELINES:
  - EXTERNAL DAMAGE <25 x 25 mm - WRAP THE ITEM IN ACCORDANCE WITH TS 18 AND THIS DRAWING.
  - INTERNAL OR EXTERNAL DAMAGE >25 x 25 mm - REPLACE THE ITEM.
- THE PROCEDURE FOR WRAPPING ALL METALLIC TAPPING SADDLES AND ALL BRASS FITTINGS SHALL BE:
  - COAT WITH PETROLATUM PRIMER,
  - WRAP WITH 50 mm WIDE PETROLATUM TAPE,
  - IN ACCORDANCE WITH TS 18.
- POLYETHYLENE SLEEVING AROUND THE PETROLATUM TAPE IS NOT REQUIRED IF PIPE IS PVC, AC OR CICL.
- WHERE THE PIPE IS DICL, THE CONTINUITY OF THE POLYETHYLENE SLEEVING SHALL BE MAINTAINED BY:
  - CUTTING A PIECE OF POLYETHYLENE SLEEVING SUFFICIENTLY LONG AND WIDE TO PROVIDE MIN 150 OVERLAP (AT EACH END) TO THE SLEEVE PROTECTING THE PIPE.
  - APPLYING THE PETROLATUM TAPE SYSTEM AROUND THE SADDLE OR PRETAPPED CONNECTOR TAPPING AND FITTING.
  - FIT THE PREPARED PIECE OF SLEEVE AROUND THE PIPE AND FITTING AND SECURE BOTH ENDS TO THE PIPE SLEEVE WITH ADHESIVE TAPE.
- WHERE THE PIPE IS MSCL:
  - PRIOR TO WELDING, REMOVE THE PIPE COATING AROUND THE AREA WHERE BOSS IS TO BE LOCATED,
  - CLEAN THE PIPE COATING FOR THE FULL CIRCUMFERENCE 100 mm WIDE EACH SIDE OF THE BOSS,
  - FOLLOWING WELDING, COAT PIPE, BOSS AND BRASS FITTINGS WITH PETROLATUM PRIMER AND FILL GAPS WITH MASTIC,
  - WRAP PIPE, BOSS, COCK PLUG AND BRASS FITTINGS WITH 50 mm WIDE PETROLATUM TAPE,
  - APPLY OVERWRAP TAPE OVER THE PIPE AND FITTINGS.
- PETROLATUM PRODUCTS AND METHODS FOR APPLICATION OF THE TAPE SYSTEM SHALL BE IN ACCORDANCE WITH TS 18.

REVISION PANEL					
REV	DATE	DRN	DETAILS	APR	CURRENT REV AUTHORIZED:
1	31/03/16	MS	2016 STANDARDS REVIEW	TG	

DESIGN PANEL			
DESIGNED:	28/09/15	AUTHORISED:	31/03/16
	RJP		T.GALEK
DRAWN:	16/11/15	SIGNATURE:	
	MS		<i>T. Galek</i>
REVIEWED:	21/03/16		
	TG		

SA Water  
Government of South Australia

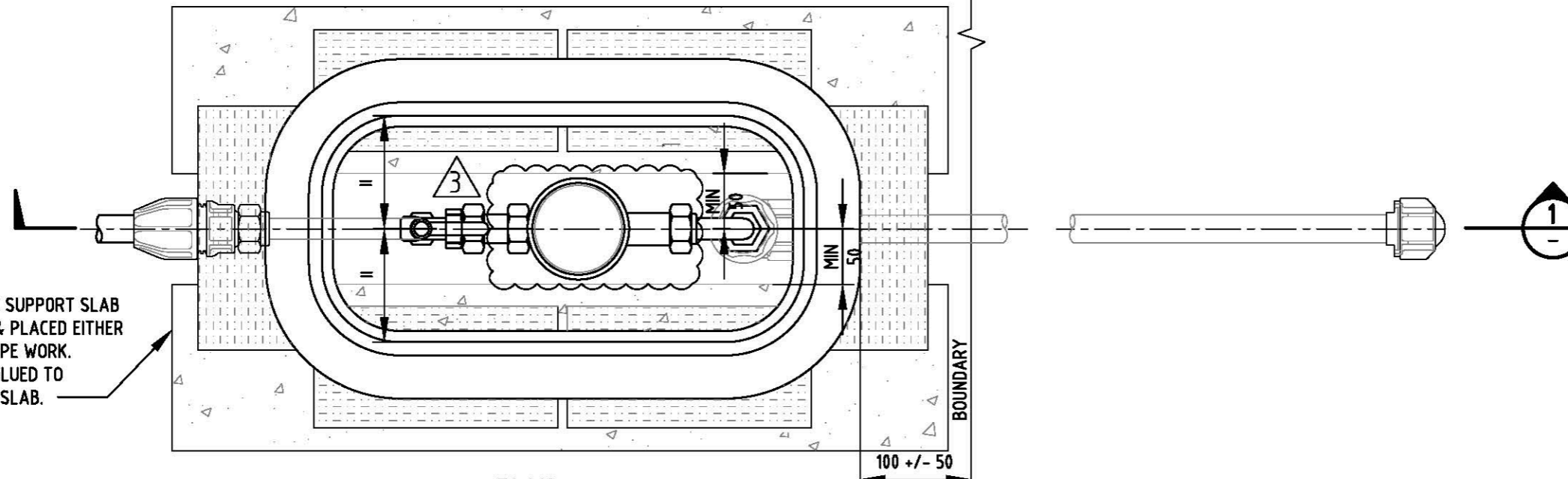
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SA WATER STANDARD DRAWINGS  
WATER SUPPLY CONSTRUCTION MANUAL  
WATER CONNECTIONS  
CORROSION PROTECTION FOR  
PE CONNECTIONS

A3	1
SHT SIZE	REVISION
TOTAL SHEETS:	
SUPERSEDES: H4, H5	
DRAWING NUMBER	
4005-30006-08	
PREFIX	NUMBER SHEET



CONCRETE SUPPORT SLAB  
SAWCUT & PLACED EITHER  
SIDE OF PIPE WORK.  
PAVERS GLUED TO  
SUPPORT SLAB.



**PLAN**  
LID NOT SHOWN  
NOT TO SCALE

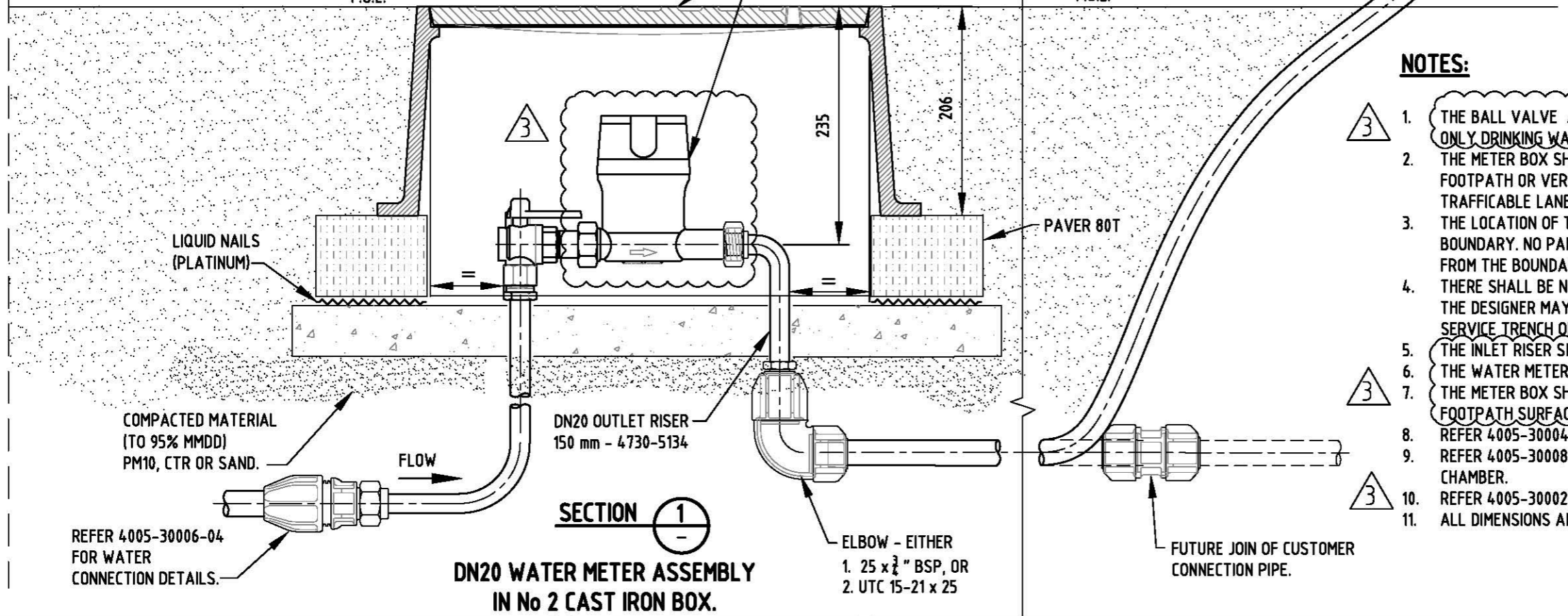
REFER NOTES 6 & 7.

MAX 1000  
REFER NOTE 3

APPROX 500

F.S.L.

F.S.L.



LIQUID NAILS  
(PLATINUM)

COMPACTED MATERIAL  
(TO 95% MMDD)  
PM10, CTR OR SAND.

REFER 4005-30006-04  
FOR WATER  
CONNECTION DETAILS.

FLOW

**SECTION 1**

**DN20 WATER METER ASSEMBLY  
IN No 2 CAST IRON BOX.**

DN20 OUTLET RISER  
150 mm - 4730-5134

ELBOW - EITHER  
1. 25 x 3/4" BSP, OR  
2. UTC 15-21 x 25

PAVER 80T

FUTURE JOIN OF CUSTOMER  
CONNECTION PIPE.

**NOTES:**

1. THE BALL VALVE AND TAIL PIECE UNION AS SHOWN IS APPLICABLE FOR ONLY DRINKING WATER INSTALLATIONS.
2. THE METER BOX SHALL ONLY BE LOCATED WITHIN A DESIGNATED FOOTPATH OR VERGE AREA. IT SHALL NOT BE LOCATED WITHIN A TRAFFICABLE LANEWAY.
3. THE LOCATION OF THE METER BOX SHALL BE ADJACENT THE FRONT/ REAR BOUNDARY. NO PART OF THE METER BOX SHALL EXTEND BEYOND 1000 FROM THE BOUNDARY.
4. THERE SHALL BE NO EXCEPTION TO THE REQUIREMENT OF NOTES 2 AND 3. THE DESIGNER MAY NEED TO RECONSIDER THE POSITION OF THE COMMON SERVICE TRENCH OR OTHER SERVICES.
5. THE INLET RISER SHALL INCLUDE THE TAIL PIECE UNION AND NUT.
6. THE WATER METER SHALL BE FITTED PRIOR TO CPC.
7. THE METER BOX SHALL BE FITTED PRIOR TO COMPLETION OF THE FOOTPATH SURFACING.
8. REFER 4005-30004-03 FOR ALLOCATION OF SPACE IN LAND DIVISIONS.
9. REFER 4005-30008-03 FOR STANDARD WATER METER IN BELOW GROUND CHAMBER.
10. REFER 4005-30002-01 TO 4005-30002-04 FOR GENERAL NOTES.
11. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.

REVISION PANEL				DESIGN PANEL				SA WATER STANDARD DRAWINGS		A3	3
REV	DATE	DRN	DETAILS	APR	CURRENT REV	DESIGNED:	AUTHORISED:	WATER SUPPLY CONSTRUCTION MANUAL		SHT SIZE	REVISION
3	28/07/18	RP	METER ADDED. NOTES ALTERED		08/08/18	RJP	T.GALEK	BELOW GROUND CHAMBER		TOTAL SHEETS:	
2	22/09/16	RP	TAILPIECE UNION AND SPECER ADDED.	TG		MS		WITH DN20 INLET RISER		SUPERSEDES: 96-0083-01 (L16)	
1	31/03/16	MS	2016 STANDARDS REVIEW	TG		TG	ORIGINAL SIGNED	FOR NEW WATER METER		DRAWING NUMBER	
										4005-30006-09	
										PREFIX	NUMBER SHEET

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**A3**  
SHT SIZE

**3**  
REVISION

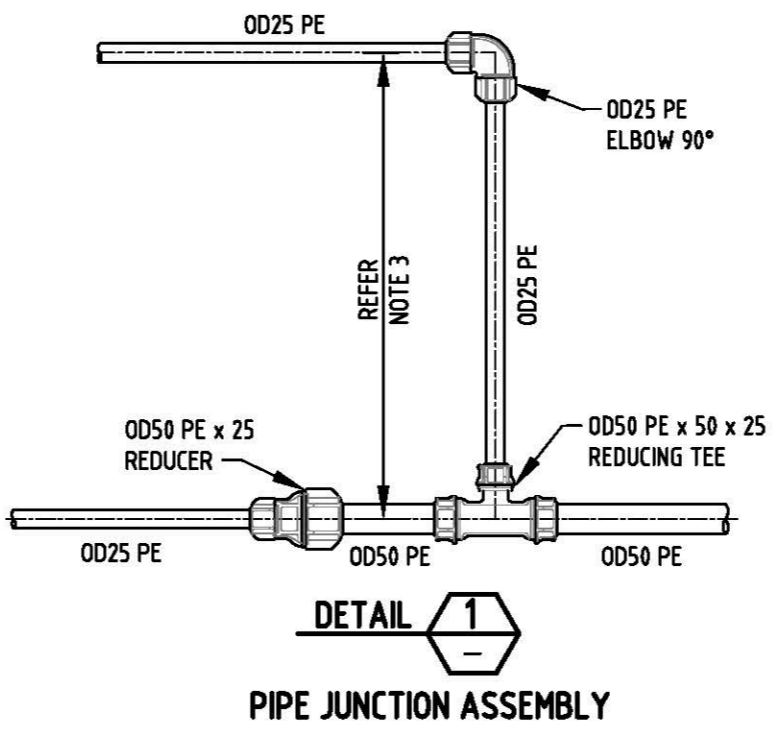
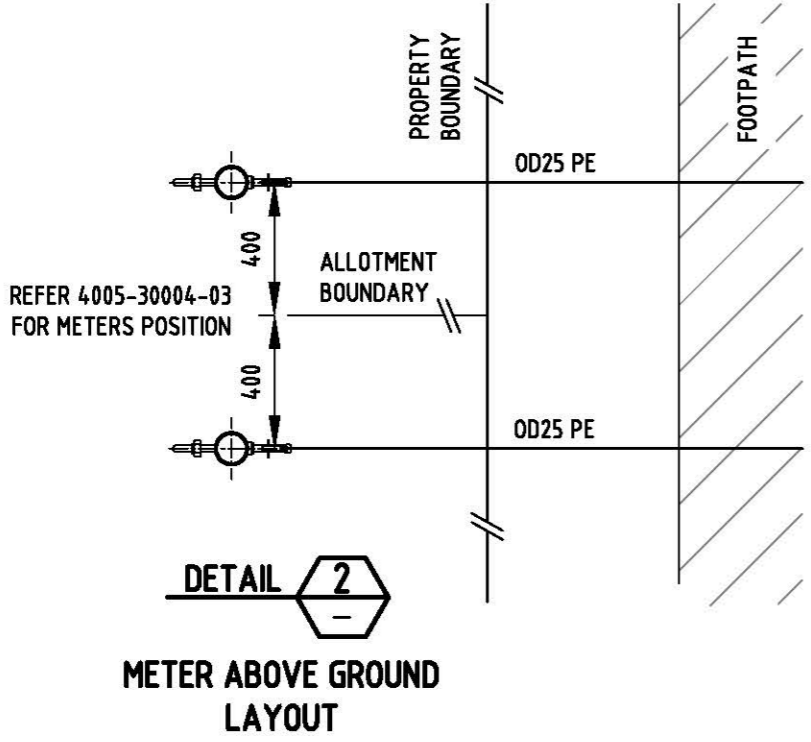
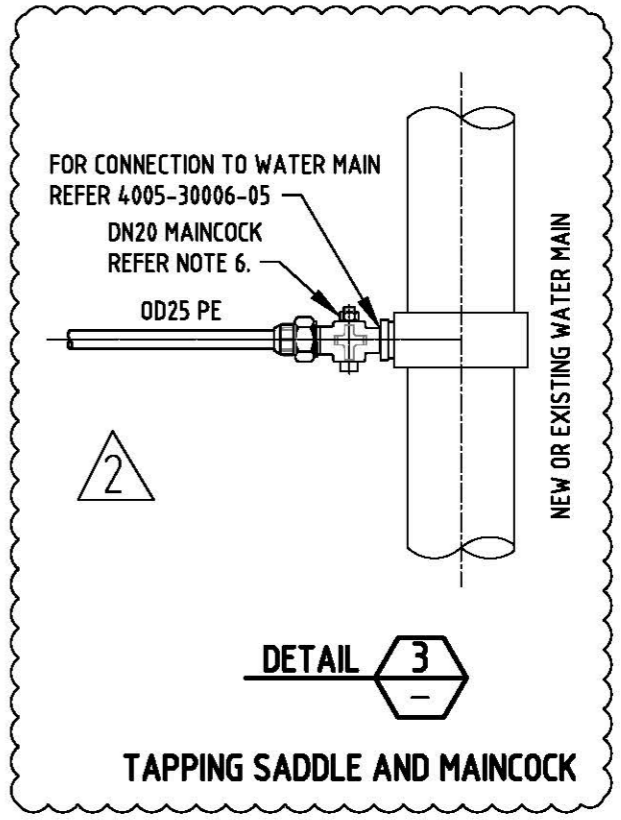
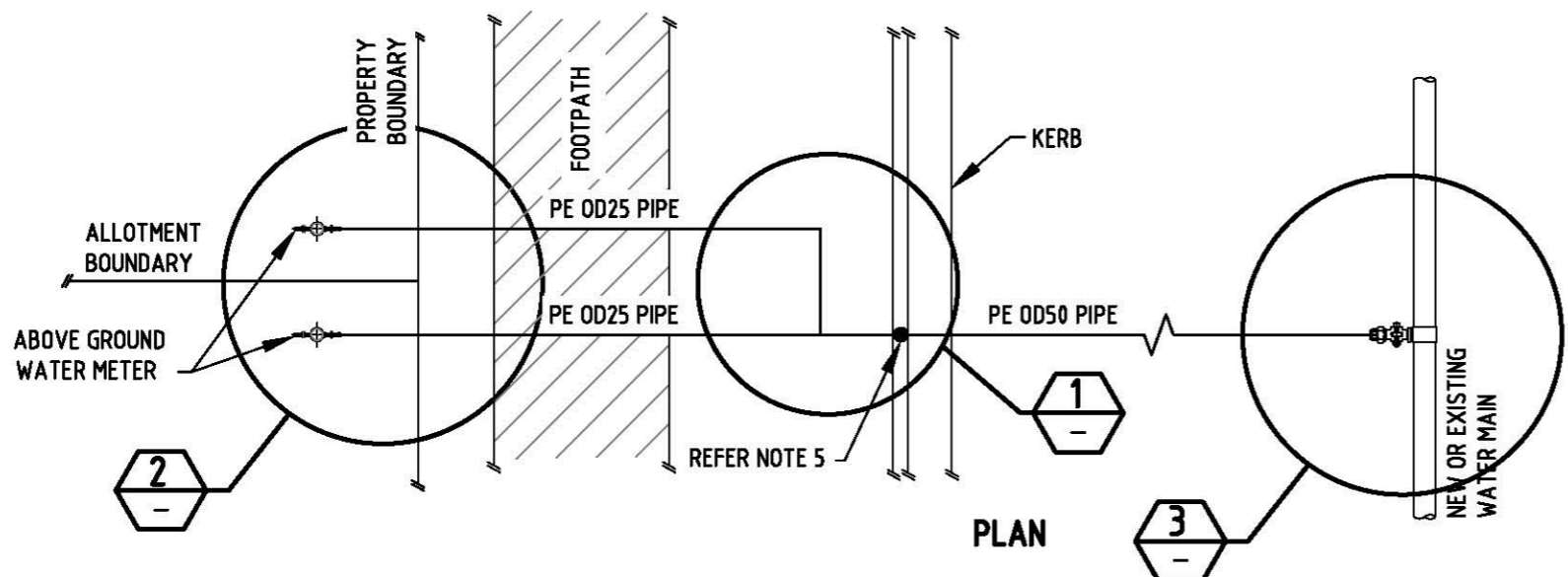
TOTAL SHEETS:

SUPERSEDES: 96-0083-01 (L16)

DRAWING NUMBER

**4005-30006-09**

PREFIX NUMBER SHEET



**NOTES:**

1. REFER 4005-30002-01 & 4005-30002-02 FOR GENERAL NOTES.
2. **LOCATION OF CONNECTIONS:**  
**DRINKING WATER CONNECTIONS:**
  - REFER 4005-30004-01, 4005-30004-02 & 4005-30004-03 FOR STANDARD 'DEFAULT' POSITIONS.
  - ALTERNATIVE POSITIONS MAY BE SPECIFIED ON THE DESIGN DRAWING. **APPROVAL OF THE SA WATER REPRESENTATIVE IS REQUIRED FOR THIS OPTION.**
3. FOR USE OF THIS OPTION THE **MAXIMUM PERMISSIBLE DISTANCE BETWEEN WATER METERS OR CONNECTION PIPE WORK SHALL BE 1200.**
4. LOCATION OF TEE AND OFFTAKE SHALL BE BETWEEN KERB AND BOUNDARY (DEPENDENT ON CST LOCATION).
5. S/S DISC TO BE PLACED ON KERB IN LINE WITH WATER CONNECTION ALIGNMENT.
6. A MAINCOCK SHALL BE INSTALLED ON THE TAPPING SADDLE OR PRETAPPED CONNECTOR.
7. THIS OPTION IS **NOT APPROVED FOR FOR DUAL RETICULATION SYSTEMS (DRINKING WATER & NON DRINKING WATER).**

REVISION PANEL				
REV	DATE	DRN	DETAILS	APR
2	28/09/17	RP	DETAIL 3 ADDED	
1	31/03/16	MS	2016 STANDARDS REVIEW	TG

DESIGN PANEL			
DESIGNED:	28/09/15	AUTHORISED:	31/03/16
RJP		T.GALEK	
DRAWN:	16/11/15	SIGNATURE:	
MS			
REVIEWED:	21/03/16	ORIGINAL SIGNED	
TG			

**SA WATER STANDARD DRAWINGS**  
**WATER SUPPLY CONSTRUCTION MANUAL**  
**SINGLE WATER CONNECTION**  
**SUPPLYING TWO PROPERTIES**

A3	2
SHT SIZE	REVISION
TOTAL SHEETS:	
SUPERSEDES:	
DRAWING NUMBER	
<b>4005-30006-10</b>	
PREFIX	NUMBER SHEET