

TYPICAL WATER CONNECTION

MINIMUM PIPE COVER

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

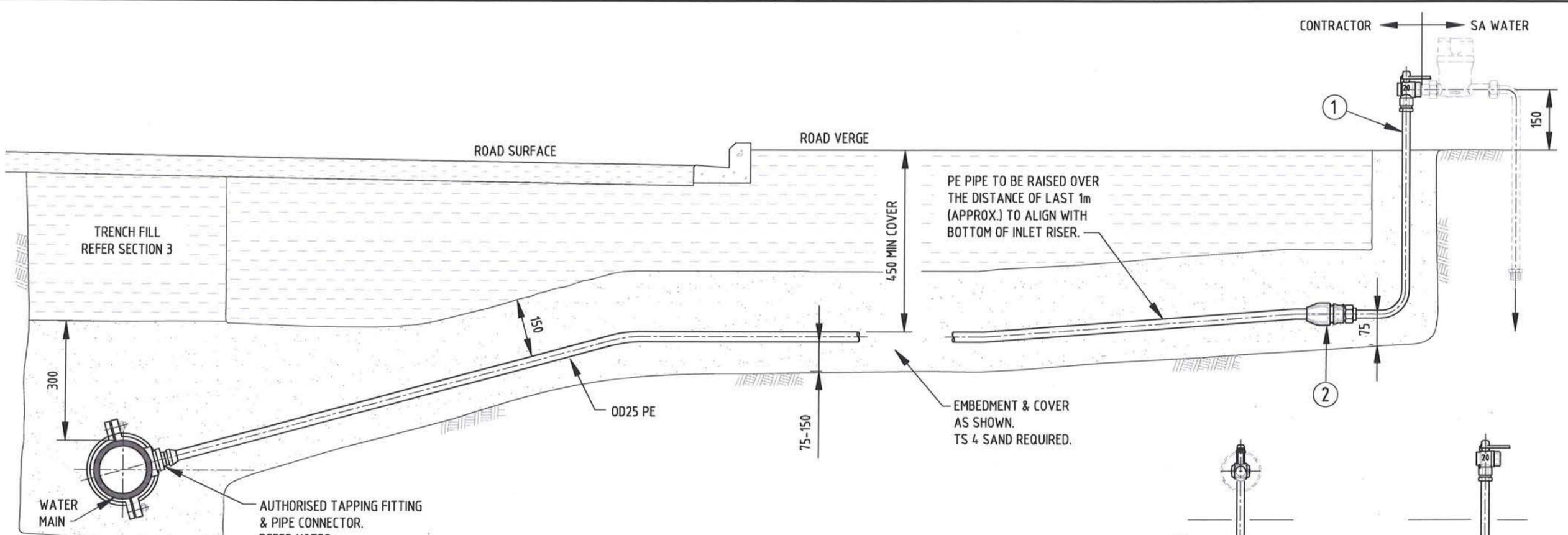
TRENCH WIDTH

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

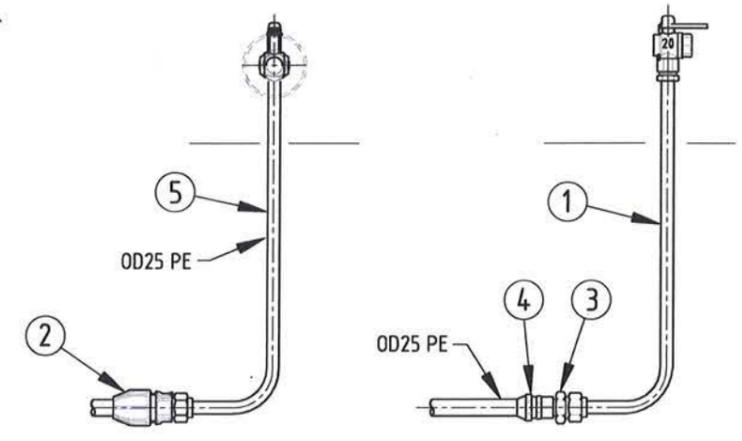
**WATER CONNECTION NOTES:**

- DIRECT TAPPING IS NOT PERMITTED INTO ANY PIPE TYPE.
- REFER 4005-30002-01 & 4005-30002-02 FOR GENERAL NOTES.
- REFER 4005-30006-03 & 4005-30006-04 FOR APPROVED TAPPING FITTINGS & METHODOLOGIES FOR NEW OR EXISTING WATER MAINS.
- NO FIELD BUTT WELDING OF PE TUBING ALLOWED.
- REFER SECTION 3 FOR TRENCH & EMBEDMENT REQUIREMENTS.
- REFER THE DESIGN DRAWINGS & SECTION 4 FOR POSITIONING OF THE CONNECTION.
- PRETAPPED CONNECTORS SHALL BE USED ON **NEW** DN100 & DN150 MAINS. MINIMUM DISTANCE BETWEEN PRETAPPED CONNECTORS SHALL BE 600.
- TAPPING SADDLES, TAPPING BANDS AND TAPPED COLLARS SHALL BE USED ON
  - EXISTING DN100 & DN150 MAINS.
  - ALL DN200 TO DN375 MAINS.
- THE MINIMUM DISTANCE BETWEEN TAPPING SADDLES, TAPPING BANDS AND TAPPED COLLARS SHALL BE 1200.
- THE MAXIMUM SIZE HOLE PERMITTED TO BE DRILLED IN ANY PIPE IS 32 mm. DRILL HOLE SIZE:
  - 18 FOR DN20 & DN25 PIPE.
  - 32 FOR DN40 & DN50 PIPE.
- ADJACENT HOLES SHALL BE DRILLED AT SLIGHTLY DIFFERENT ANGLES TO THE HORIZONTAL.
- THE PE CONNECTION PIPE SHALL BE SNAKED IN THE TRENCH HORIZONTALLY.
- CONNECTIONS SHALL BE PERPENDICULAR TO THE WATER MAIN. WHERE THIS CANNOT BE ACHIEVED THE SA WATER REPRESENTATIVE'S APPROVAL SHALL BE SOUGHT FOR AN ALTERNATIVE.
- 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").
- FOR OD50 AND OD63 PE WATER CONNECTIONS THE GREEN DETECTABLE MARKER TAPE IS MANDATORY.
- WHERE MAINCOCK INSTALLED ON TAPPING FITTING, THE PLUG OF THE MAINCOCK SHALL BE TURNED TO ON PRIOR TO BACKFILLING OF TRENCH.
- PE PIPEWORK CONNECTOR TO THE METER INLET RISER SHALL BE SUCH THAT RISER CAN BE REMOVED WITHOUT CUTTING THE PE TUBING.
- 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.
- ALL DIMENSIONS IN MILLIMETRES.

REVISION PANEL				DESIGN PANEL		 SA WATER <small>Government of South Australia</small>	SA WATER STANDARD DRAWINGS	A3	1
REV	DATE	DRN	DETAILS	APR	CURRENT REV AUTHORIZED:		SHT SIZE	WATER SUPPLY CONSTRUCTION MANUAL	REVISION
					DESIGNED: 28/09/15 RJP				
					AUTHORISED: 31/03/16 T.GALEK				
					DRAWN: 16/11/15 MS				
					SIGNATURE: <i>T. Galek</i>				
					REVIEWED: 21/03/16 TG				
1	31/03/16	MS	2016 STANDARDS REVIEW	TG					
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.							<b>WATER CONNECTIONS TYPICAL LAYOUT &amp; NOTES</b>		TOTAL SHEETS: SUPERSEDES: 96-0080-01 (E1) DRAWING NUMBER <b>4005-30006-01</b> <small>PREFIX                      NUMBER                      SHEET</small>



ELEVATION  
DN20 & DN25 PIPEWORK  
WATER MAINS TO INLET RISER



DN25 INLET RISER

DN20 INLET RISER  
WITH TITA CONNECTOR

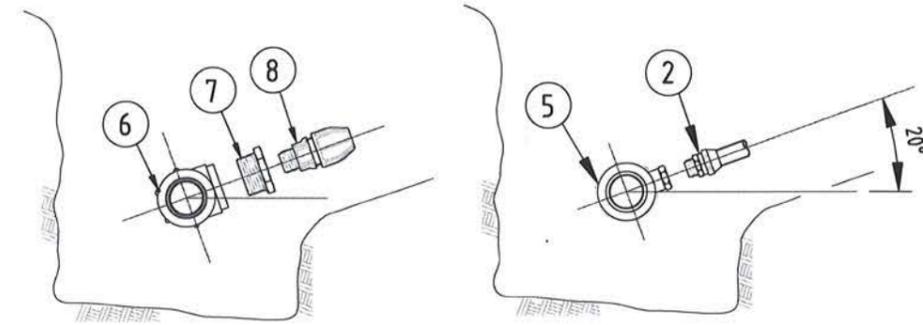
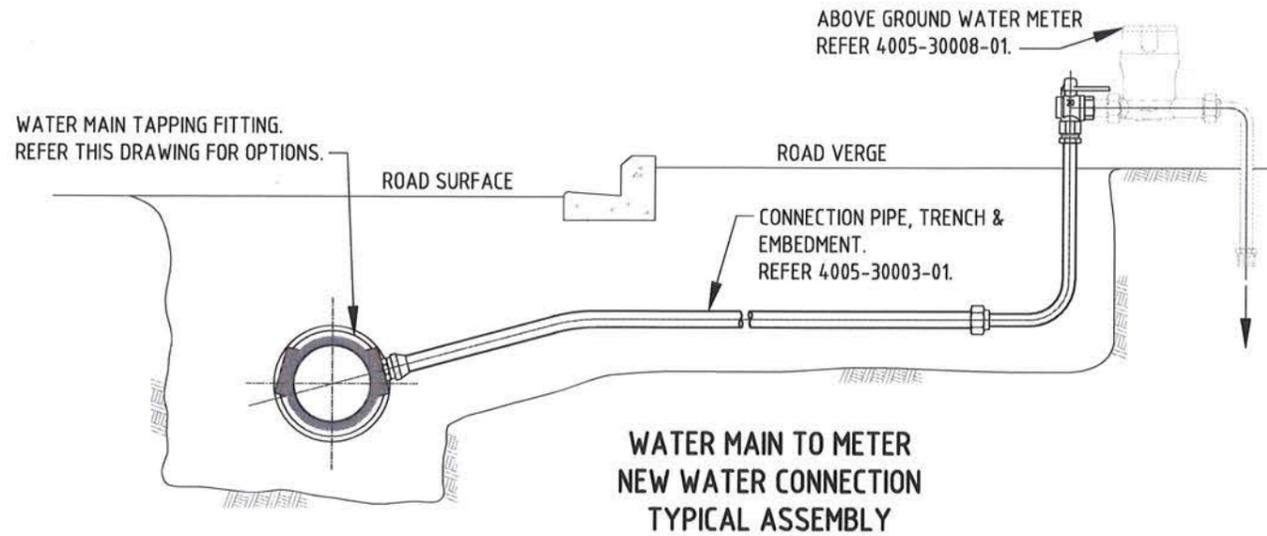
NOTES:

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 & 4005-30002-02 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. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.

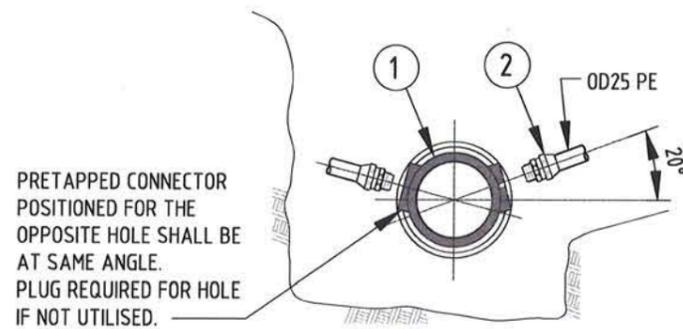
ITEM	DESCRIPTION	REMARKS
1	INLET RISER (DN 20)	(LENGTH 530)
2	END CONNECTOR MALE	PE 25 x 1" BSP
3	REDUCER NIPPLE	DR BRASS (25-20 NOM)
4	END CONNECTOR FEMALE	TITA GM22
5	INLET RISER (DN 25)	(LENGTH 530)

REVISION PANEL				DESIGN PANEL		<p>SA WATER STANDARD DRAWINGS WATER SUPPLY CONSTRUCTION MANUAL DN20 &amp; DN25 CONNECTIONS WATER MAIN TO INLET RISER</p>	<p>A3 SHT SIZE</p> <p>TOTAL SHEETS:</p> <p>SUPERSEDES: E2, E3</p> <p>DRAWING NUMBER <b>4005-30006-02</b></p> <p>PREFIX NUMBER SHEET</p>	<p>1 REVISION</p>
REV	DATE	DRN	DETAILS	APR	CURRENT REV AUTHORIZED:			
					SIGNATURE:	RJP	T.GALEK	
						DRAWN: 16/11/15	SIGNATURE:	
						MS		
1	31/03/16	MS	2016 STANDARDS REVIEW	TG		REVIEWED: 21/03/16	T. Galek	
						TG		

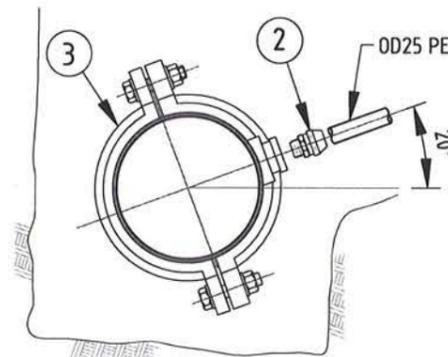
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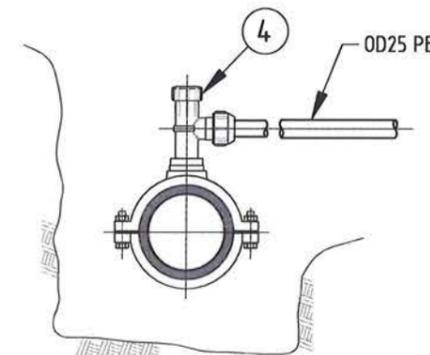
**NEW PE MAIN  
OD63  
MECHANICAL TEE**



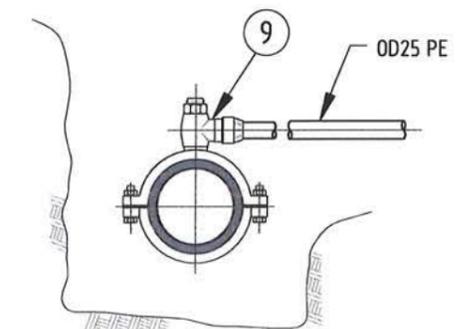
**NEW PVC & DICL MAINS  
DN100/ DN150  
PRETAPPED CONNECTOR**



**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**

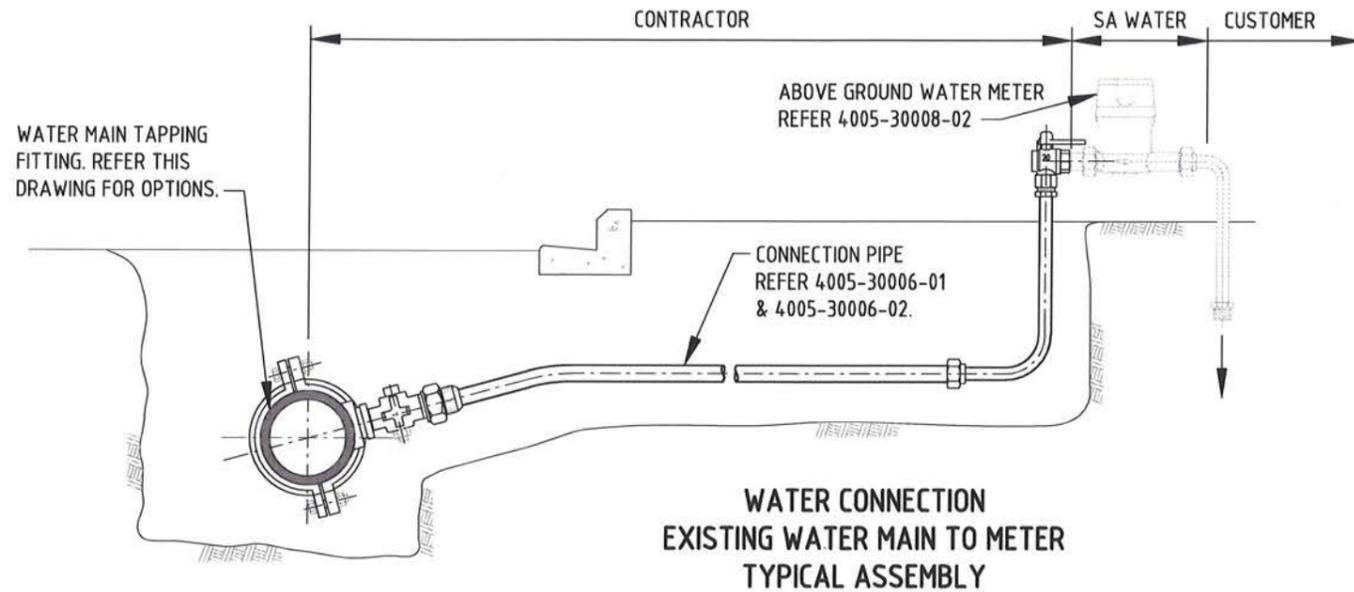
ITEM	DESCRIPTION	REMARKS
1	PRETAPPED CONNECTOR	SINGLE OR DOUBLE OPTIONS
2	BRASS END CONNECTOR	TITA GM22
3	TAPPING SADDLE	FITTING DEPENDENT UPON PIPE MATERIAL & DIAMETER
4	ELECTROFUSION PLASTIC TAPPING SADDLE (WITH SS CUTTER)	SADDLES AVAILABLE WITH 20 mm OR 25 mm OFFTAKES
5	PE REDUCING TEE	TEES AVAILABLE 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:**

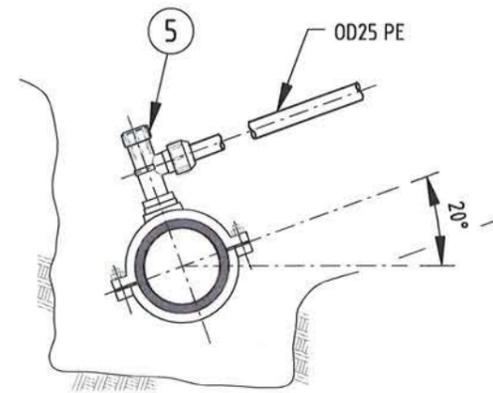
- DIRECT TAPPING IS NOT PERMITTED INTO ANY PIPE.
- REFER 4005-30002-01 & 4005-30002-02 FOR GENERAL NOTES.
- REFER SECTION 3 FOR TRENCH & EMBEDMENT REQUIREMENTS.
- REFER DESIGN DRAWINGS & 4005-30006-01, 4005-30006-02 FOR POSITIONING OF THE CONNECTION.
- WHERE PREFERRED ANGLE OF FITTING CANNOT BE ACHIEVED 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.

REVISION PANEL					DESIGN PANEL			SA WATER STANDARD DRAWINGS			A3	1
REV	DATE	DRN	DETAILS	APR	CURRENT REV AUTHORIZED:	DESIGNED: 28/09/15		AUTHORIZED: 31/03/16	WATER SUPPLY CONSTRUCTION MANUAL			SHT SIZE
1	31/03/16	MS	2016 STANDARDS REVIEW	TG		DESIGNED: RJP	AUTHORIZED: T.GALEK	WATER CONNECTIONS FROM NEW MAIN			TOTAL SHEETS:	
						DRAWN: MS	SIGNATURE: T. Galek	APPROVED TAPPING METHODS			SUPERSEDES: E8, E9	
						REVIEWED: TG		DN20 & DN25 CONNECTIONS			DRAWING NUMBER	
											4005-30006-03	
											PREFIX	SHEET

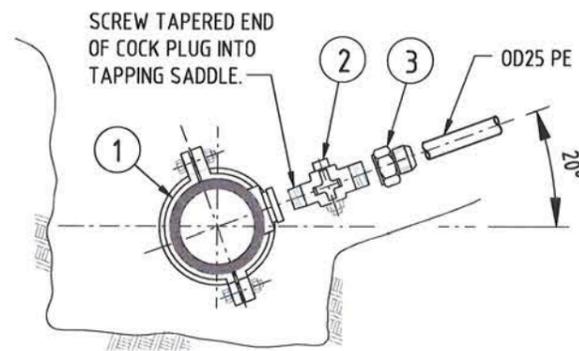
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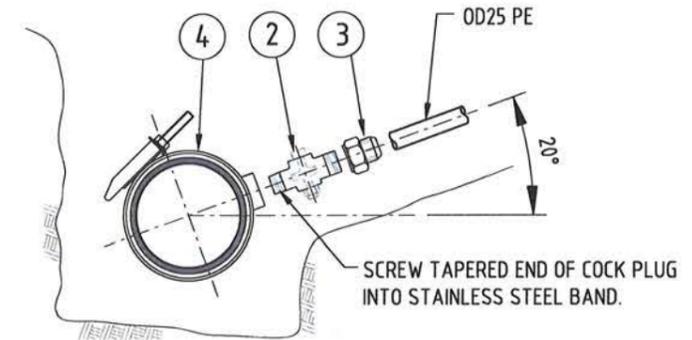
**WATER CONNECTION  
EXISTING WATER MAIN TO METER  
TYPICAL ASSEMBLY**



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



**EXISTING PVC, DICL, CICL & AC MAINS  
DN100 - DN375  
TAPPING SADDLE**



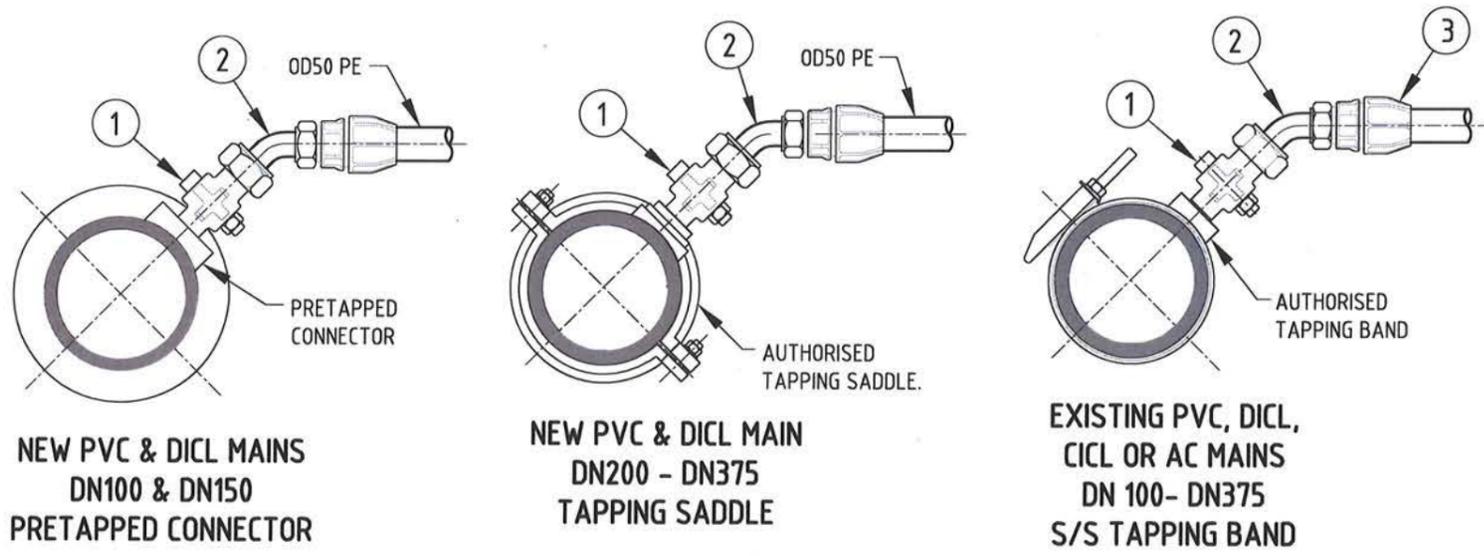
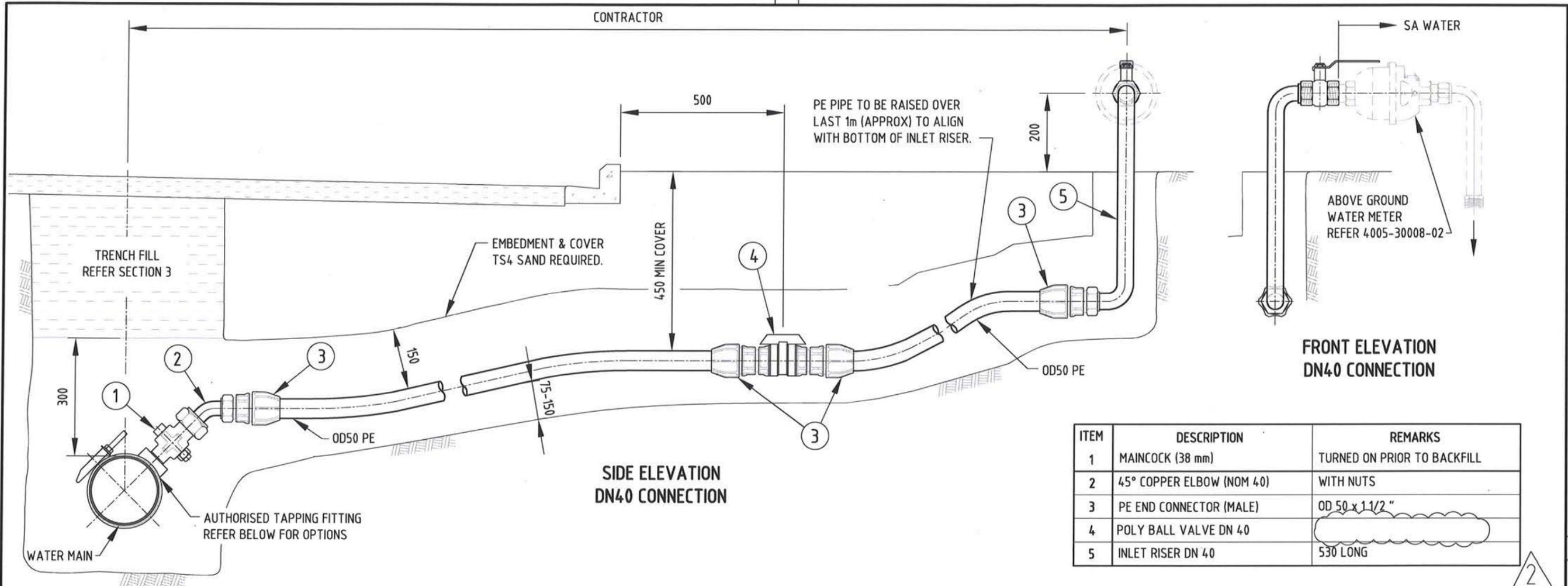
**EXISTING PVC, DICL, CICL & AC MAINS  
DN100 - DN375  
S/S TAPPING BAND**

ITEM	DESCRIPTION	REMARKS
1	TAPPING SADDLE	FITTING DEPENDENT UPON PIPE MATERIAL & DIAMETER
2	COCK PLUG (20mm)	TURNT 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

**NOTES:**

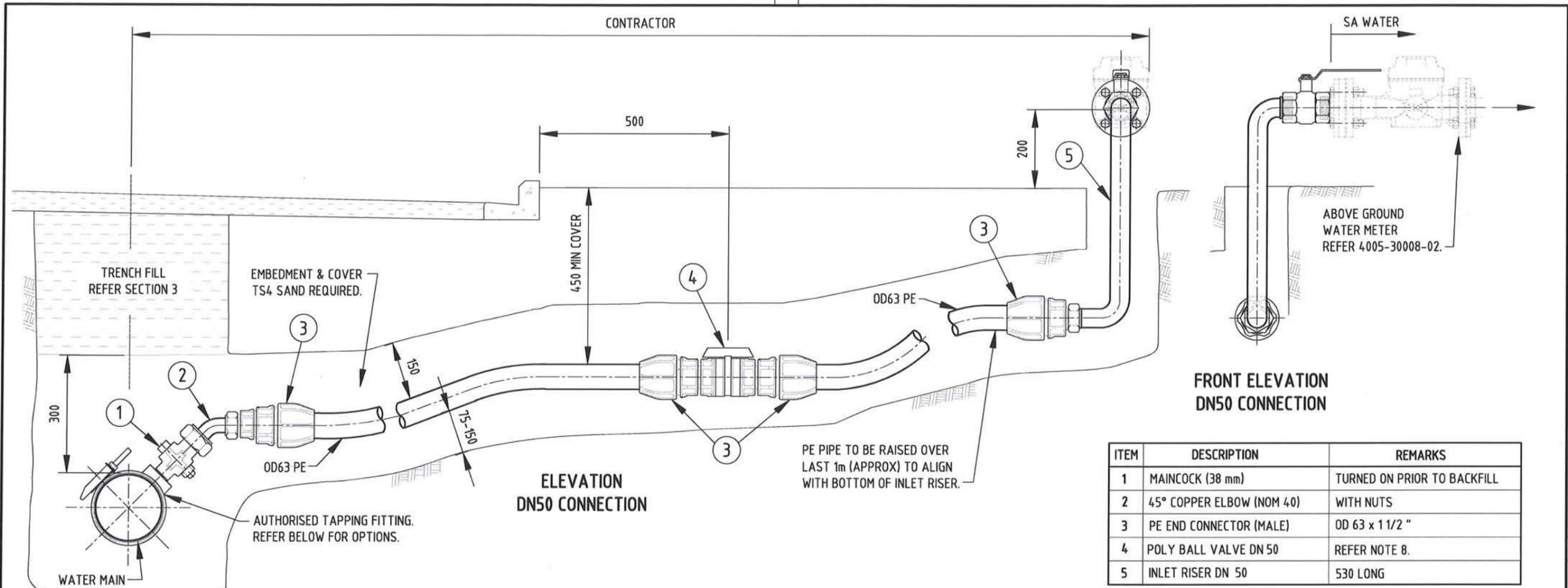
- DIRECT TAPPING IS NOT PERMITTED INTO ANY PIPE.
- REFER 4.005-30002-01 & 4.005-30002-02 FOR GENERAL NOTES.
- REFER SECTION 3 FOR TRENCH & EMBEDMENT REQUIREMENTS.
- REFER DESIGN DRAWINGS & 4.005-30006-01, 4.005-30006-02 FOR POSITIONING OF THE CONNECTION.
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- WRAPPING OF ALL FITTINGS SHALL BE IN ACCORDANCE WITH TS 18. STAINLESS STEEL COMPONENTS & GUNMETAL SADDLES ON PVC & AC MAINS DO NOT REQUIRE WRAPPING.
- WHERE EXISTING MAIN IS MSCL REFER 4.005-30006-07 FOR TAPPING OPTIONS.
- ALL DIMENSIONS IN MILLIMETRES.

<p>REVISION PANEL</p> <table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DRN</th> <th>DETAILS</th> <th>APR</th> <th>CURRENT REV AUTHORIZED:</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>31/03/16</td> <td>MS</td> <td>2016 STANDARDS REVIEW</td> <td>TG</td> <td></td> </tr> </tbody> </table>				REV	DATE	DRN	DETAILS	APR	CURRENT REV AUTHORIZED:	1	31/03/16	MS	2016 STANDARDS REVIEW	TG		<p>DESIGN PANEL</p> <table border="1"> <tr> <td>DESIGNED: 28/09/15</td> <td>AUTHORISED: 31/03/16</td> </tr> <tr> <td>RJP</td> <td>T.GALEK</td> </tr> <tr> <td>DRAWN: 16/11/15</td> <td>SIGNATURE:</td> </tr> <tr> <td>MS</td> <td><i>T. Galek</i></td> </tr> <tr> <td>REVIEWED: 21/03/16</td> <td>TG</td> </tr> </table>		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	<p>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.</p>		<p><b>SA WATER STANDARD DRAWINGS WATER SUPPLY CONSTRUCTION MANUAL WATER CONNECTIONS FROM EXISTING MAIN APPROVED TAPPING METHODS DN20 &amp; DN25 CONNECTIONS</b></p>		<table border="1"> <tr> <td>A3</td> <td>1</td> </tr> <tr> <td>SHT SIZE</td> <td>REVISION</td> </tr> <tr> <td colspan="2">TOTAL SHEETS:</td> </tr> <tr> <td colspan="2">SUPERSEDES: E8, E9</td> </tr> <tr> <td colspan="2">DRAWING NUMBER</td> </tr> <tr> <td colspan="2">4005-30006-04</td> </tr> <tr> <td>PREFIX</td> <td>NUMBER SHEET</td> </tr> </table>		A3	1	SHT SIZE	REVISION	TOTAL SHEETS:		SUPERSEDES: E8, E9		DRAWING NUMBER		4005-30006-04		PREFIX	NUMBER SHEET
REV	DATE	DRN	DETAILS	APR	CURRENT REV AUTHORIZED:																																										
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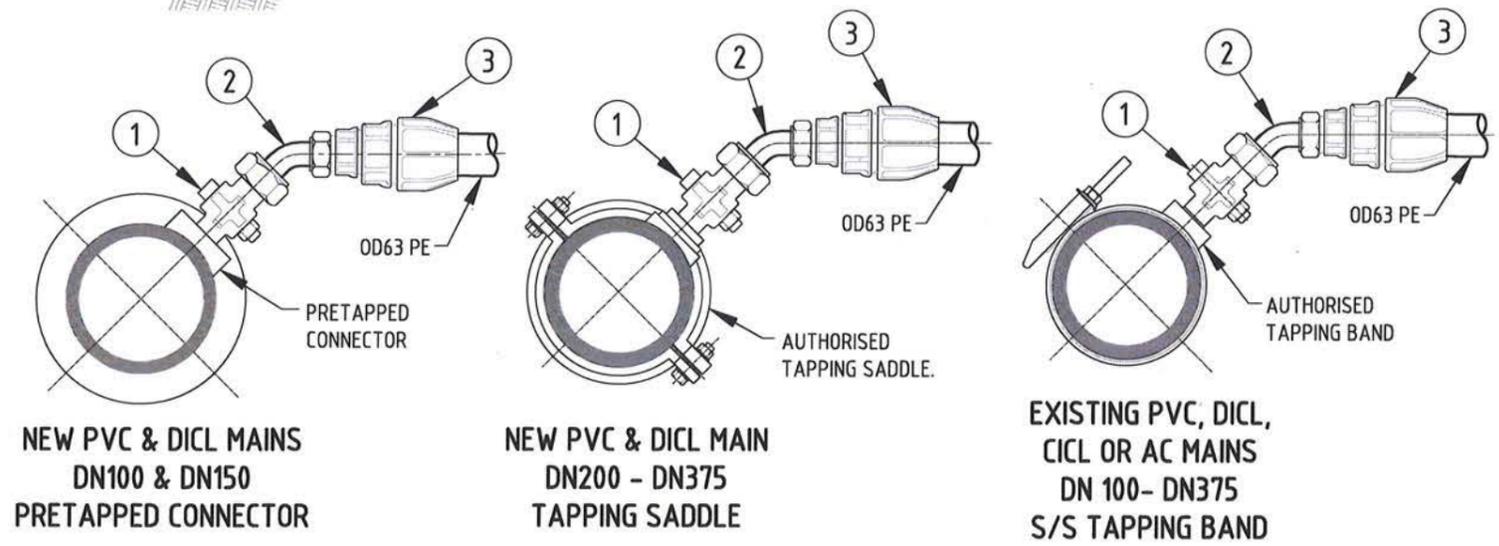
- NOTES:**
- DIRECT TAPPING IS NOT PERMITTED INTO ANY PIPE.
  - REFER 4005-30002-01 & 4005-30002-02 FOR GENERAL NOTES.
  - THIS DRAWING SHALL BE CONSIDERED FOR NEW WATER CONNECTIONS OFF **NEW OR EXISTING** WATER MAINS.
  - REFER 4005-30006-01 FOR GENERAL NOTES & REQUIREMENTS FOR WATER CONNECTIONS.
  - 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.

REVISION PANEL				DESIGN PANEL				SA WATER STANDARD DRAWINGS		A3		2	
REV	DATE	DRN	DETAILS	APR	CURRENT REV 16/12/16	DESIGNED: 28/09/15	AUTHORISED 31/03/16	WATER SUPPLY CONSTRUCTION MANUAL		SHT SIZE		REVISION	
2	19/07/16	PC	ITEM 4 INCORRECT REFERENCE REMOVED		AUTHORISED: T. GALEK	RJP	T. GALEK	DN40 CONNECTION		TOTAL SHEETS:		91-0065-02 (E6)	
1	31/03/16	MS	2016 STANDARDS REVIEW	TG	SIGNATURE: <i>T. Galek</i>	MS	ORIGINAL SIGNED	WATER MAIN TO INLET RISER		DRAWING NUMBER		4005-30006-05	
								SA Water		PREFIX		NUMBER	
								SOUTH AUSTRALIAN WATER CORPORATION		SHEET			

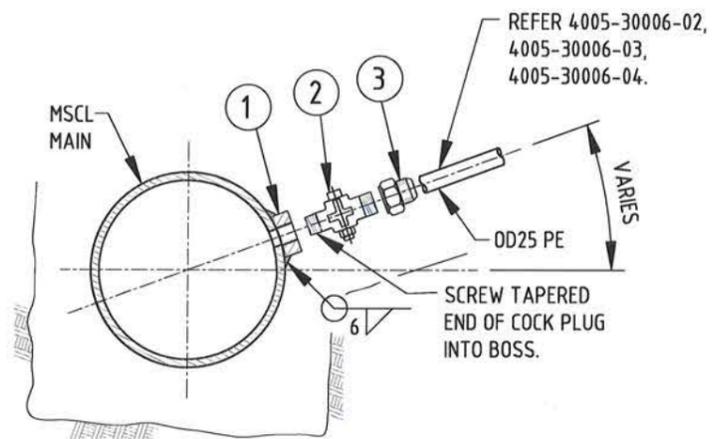


**NOTES:**

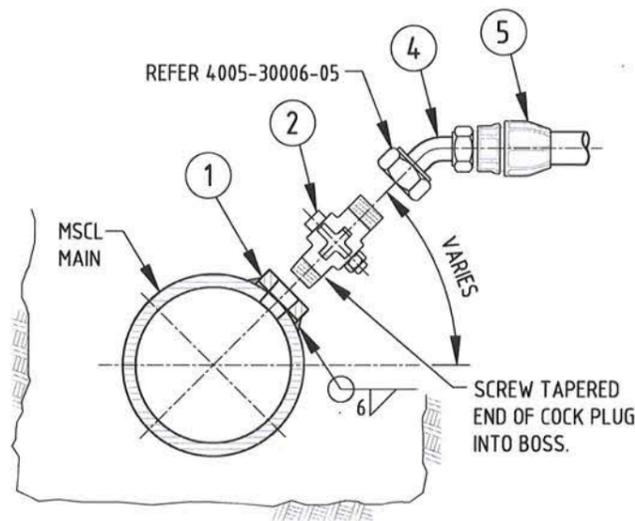
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3. THIS DRAWING SHALL BE CONSIDERED FOR NEW WATER CONNECTIONS OFF NEW OR EXISTING WATER MAINS.
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5. REFER THE DESIGN DRAWINGS & SECTION 4 FOR POSITIONING OF THE CONNECTION.
6. WHERE A STAINLESS STEEL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



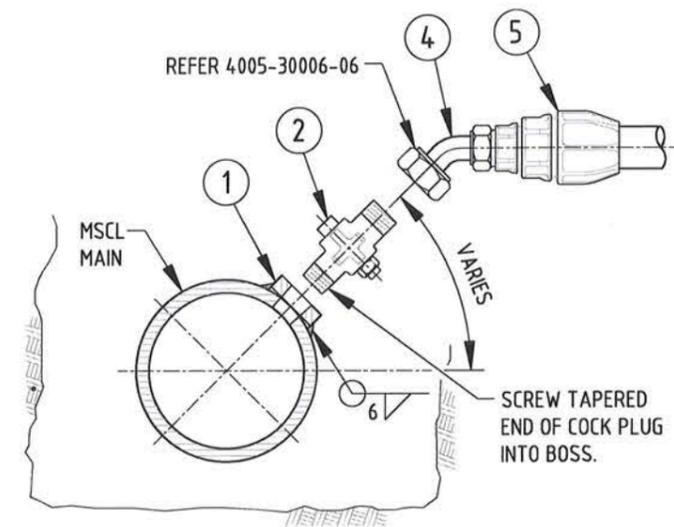
REVISION PANEL					DESIGN PANEL		 <b>SA WATER</b> <small>Government of South Australia</small>	SA WATER STANDARD DRAWINGS		A3	1
REV	DATE	DRN	DETAILS	APR	CURRENT REV AUTHORIZED:	DESIGNED: 28/09/15		AUTHORIZED: 31/03/16	WATER SUPPLY CONSTRUCTION MANUAL		SHT SIZE
1	31/03/16	MS	2016 STANDARDS REVIEW	TG		DESIGNED: RJP	AUTHORIZED: T.GALEK	DN50 CONNECTION		TOTAL SHEETS:	
						DRAWN: MS	SIGNATURE: <i>T. Galek</i>	WATER MAIN TO		SUPERSEDES: 91-0066-02 (E7)	
						REVIEWED: TG		INLET RISER		DRAWING NUMBER	
								and shall not be copied or modified in part or in whole without authorization.		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)



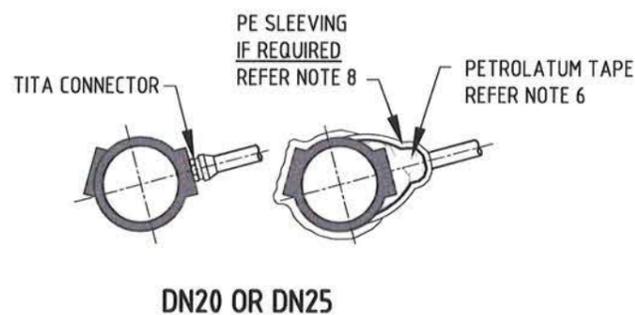
EXISTING MSCL MAINS DN100 - DN375  
TAPPING INTO CHARGED MAINS (WET TAPPING)  
PE WATER CONNECTIONS (DN50 METERS)  
(USING UNDER PRESSURE TAPPING EQUIPMENT)

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:**

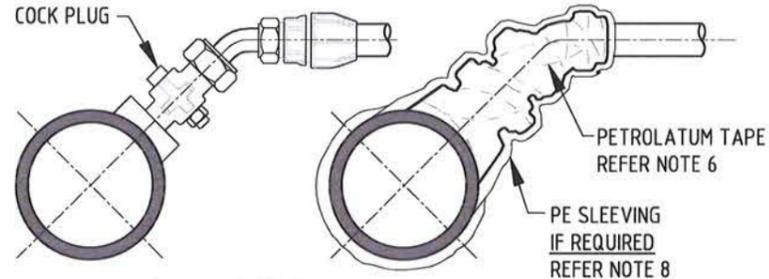
- REFER 4005-30002-01 & 4005-30002-02 FOR GENERAL NOTES.
- THIS DRAWING SHALL BE CONSIDERED FOR NEW WATER CONNECTIONS OFF **NEW OR EXISTING** WATER MAINS.
- WELDING SHALL BE IN ACCORDANCE WITH AS4041, CLASS 2P.
- FOLLOWING WELDING & FITTING OF THE MAINCOCK, THE CONTRACTOR SHALL DRILL & TAP THE MAIN WITH 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 STANDARD DRAWINGS WATER SUPPLY CONSTRUCTION MANUAL WATER CONNECTIONS CONNECTION OFF MSCL MAIN	A3 SHT SIZE TOTAL SHEETS: SUPERSEDES: E8, E10, E11 DRAWING NUMBER <b>4005-30006-07</b> PREFIX NUMBER SHEET	1 REVISION
REV	DATE	DRN	DETAILS	APR	CURRENT REV AUTHORIZED:	DESIGNED: 28/09/15 RJP			
1	31/03/16	MS	2016 STANDARDS REVIEW	TG		DRAWN: 16/11/15 MS REVIEWED: 21/03/16 TG	SIGNATURE: 	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.	

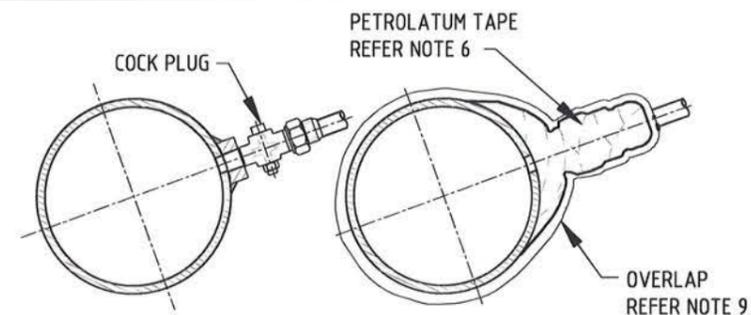


DN20 OR DN25

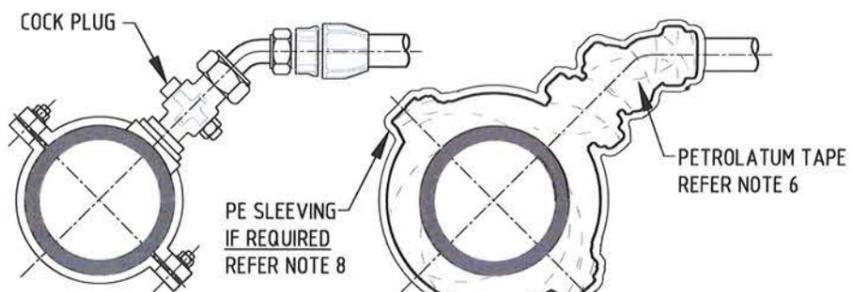
PRETAPPED CONNECTORS



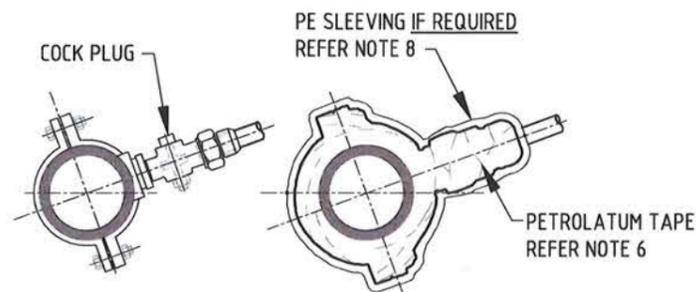
DN40 OR DN50



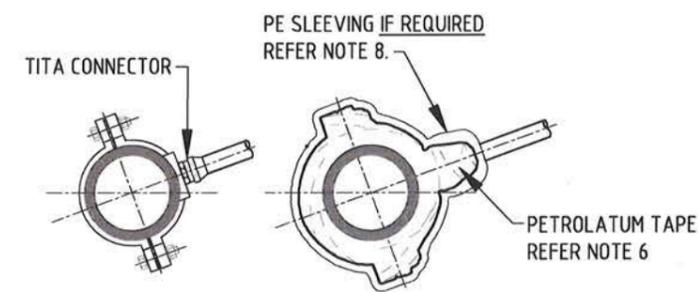
MSCL WELDED BOSS WITH COCK PLUG



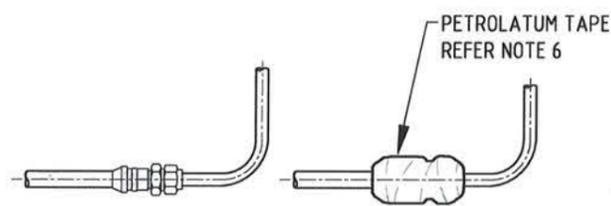
DN40 OR DN50



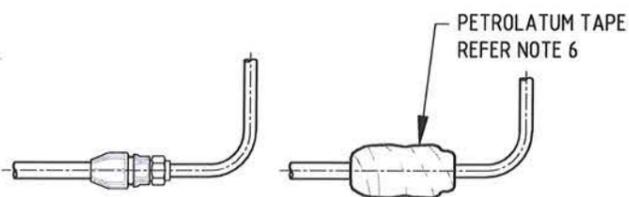
COCK PLUG INSTALLATION TAPPING SADDLES



TITA CONNECTOR INSTALLATION



INLET RISER WITH TITA FITTING



INLET RISER WITH PE CONNECTOR

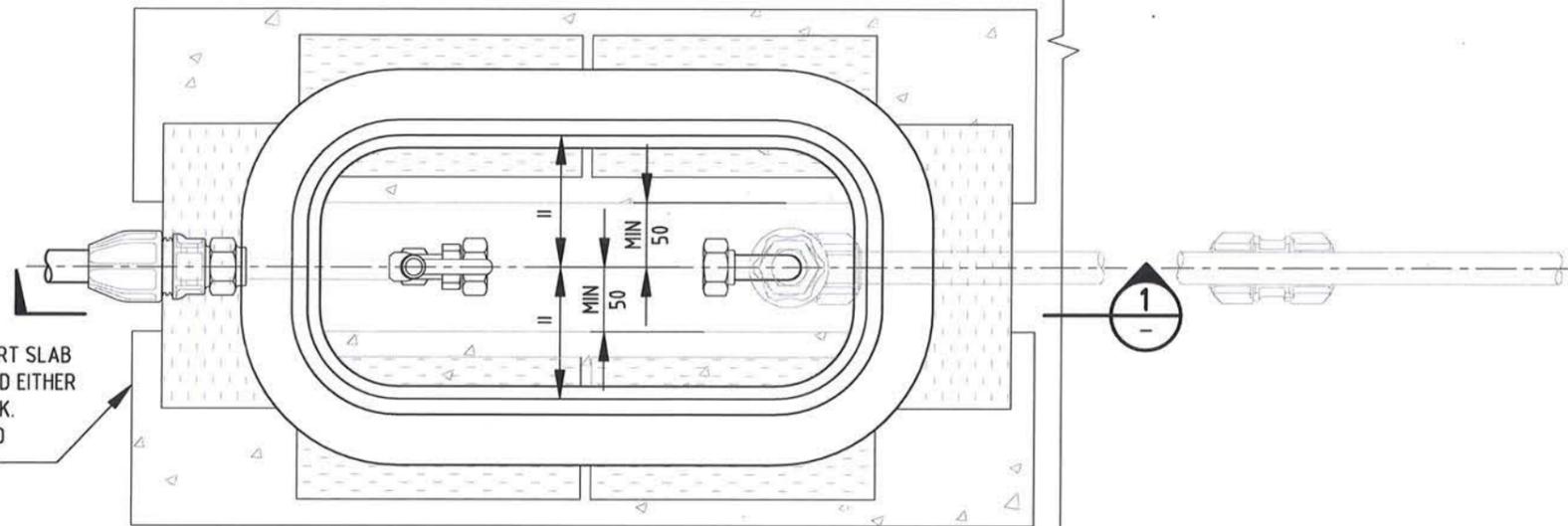
NOTES:

- 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					DESIGN PANEL		SA WATER STANDARD DRAWINGS		A3	1	
REV	DATE	DRN	DETAILS	APR	CURRENT REV AUTHORISED:	DESIGNED: 28/09/15	AUTHORISED: 31/03/16	WATER SUPPLY CONSTRUCTION MANUAL		SHT SIZE	REVISION
1	31/03/16	MS	2016 STANDARDS REVIEW	TG		RJP	T.GALEK	WATER CONNECTIONS		TOTAL SHEETS:	
						MS	SIGNATURE: T. Galek	CORROSION PROTECTION FOR		SUPERSEDES: H4, H5	
						TG		PE CONNECTIONS		DRAWING NUMBER	
										4005-30006-08	
										PREFIX	SHEET

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



**PLAN**  
LID NOT SHOWN

MAX 1000  
REFER NOTE 2

APPROX 500

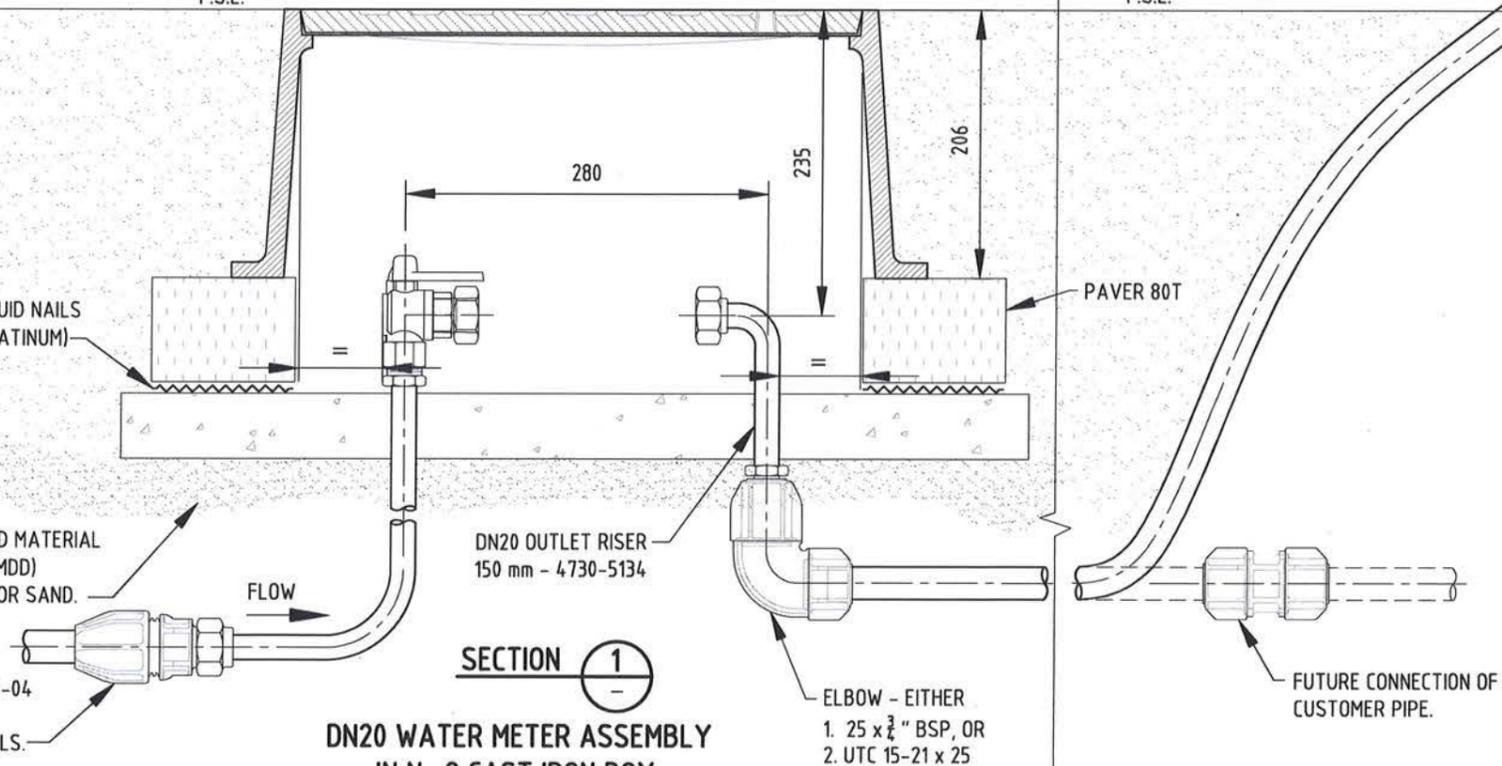
F.S.L.

F.S.L.

LIQUID NAILS  
(PLATINUM)

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

REFER 4005-30006-04  
FOR WATER  
CONNECTION DETAILS.



**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 CONNECTION OF  
CUSTOMER PIPE.

**NOTES:**

1. THE METER BOX SHALL ONLY BE LOCATED WITHIN A DESIGNATED FOOTPATH OR VERGE AREA. IT SHALL NOT BE LOCATED WITHIN A TRAFFICABLE LANEWAY.
2. 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.
3. THERE SHALL BE NO EXCEPTION TO THE REQUIREMENT OF NOTES 1 AND 2. THE DESIGNER MAY NEED TO RECONSIDER THE POSITION OF THE COMMON SERVICE TRENCH OR OTHER SERVICES.
4. REFER 4005-30004-03 FOR ALLOCATION OF SPACE IN LAND DIVISIONS.
6. REFER 4005-30008-01 FOR STANDARD ABOVE GROUND WATER METER ASSEMBLY.
7. REFER 4005-30002-01 & 4005-30002-02 FOR GENERAL NOTES .
8. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.

REVISION PANEL

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

DESIGN PANEL

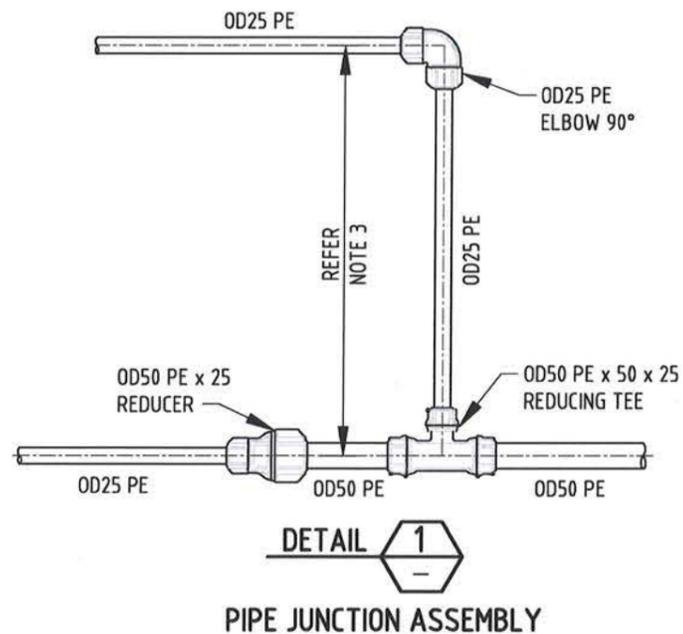
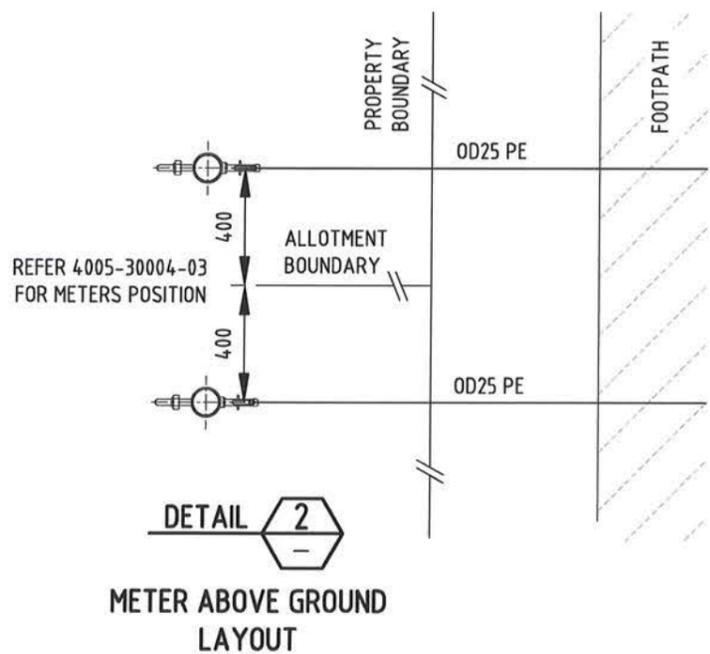
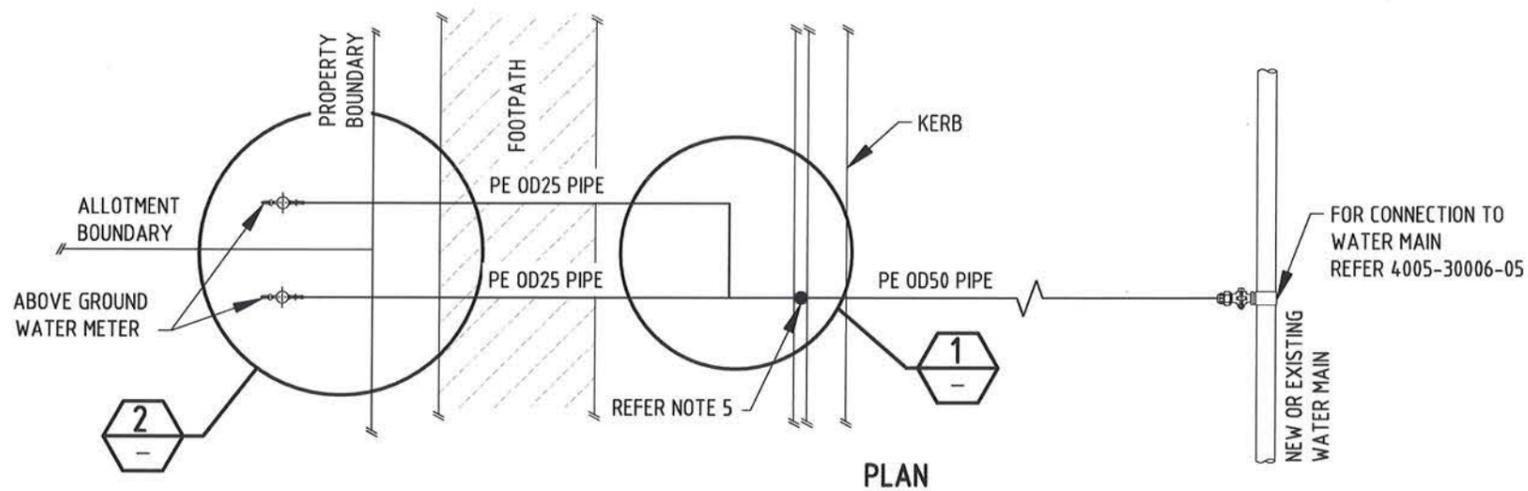
DESIGNED:	28/09/15	AUTHORISED:	31/03/16
RJP		T.GALEK	
DRAWN:	16/11/15	SIGNATURE:	
MS			
REVIEWED:	21/03/16		
TG			



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**SA WATER STANDARD DRAWINGS**  
**WATER SUPPLY CONSTRUCTION MANUAL**  
**BELOW GROUND CHAMBER**  
**WITH DN20 INLET RISER**  
**FOR NEW WATER METER**

A3	1
SHT SIZE	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. THIS OPTION IS **NOT APPROVED FOR FOR DUAL RETICULATION SYSTEMS (DRINKING WATER & NON DRINKING WATER).**

REVISION PANEL					DESIGN PANEL		 <b>SA Water</b> <small>Government of South Australia</small>	SA WATER STANDARD DRAWINGS		A3	1	
REV	DATE	DRN	DETAILS	APR	CURRENT REV AUTHORISED:	DESIGNED: 28/09/15		AUTHORISED: 31/03/16	WATER SUPPLY CONSTRUCTION MANUAL		SHT SIZE	REVISION
								SINGLE WATER CONNECTION				
								SUPPLYING TWO PROPERTIES				
								<small>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.</small>				
1	31/03/16	MS	2016 STANDARDS REVIEW	TG				<b>4005-30006-10</b>				
										TOTAL SHEETS:		
										SUPERSEDES:		
										DRAWING NUMBER		
										PREFIX	NUMBER	SHEET