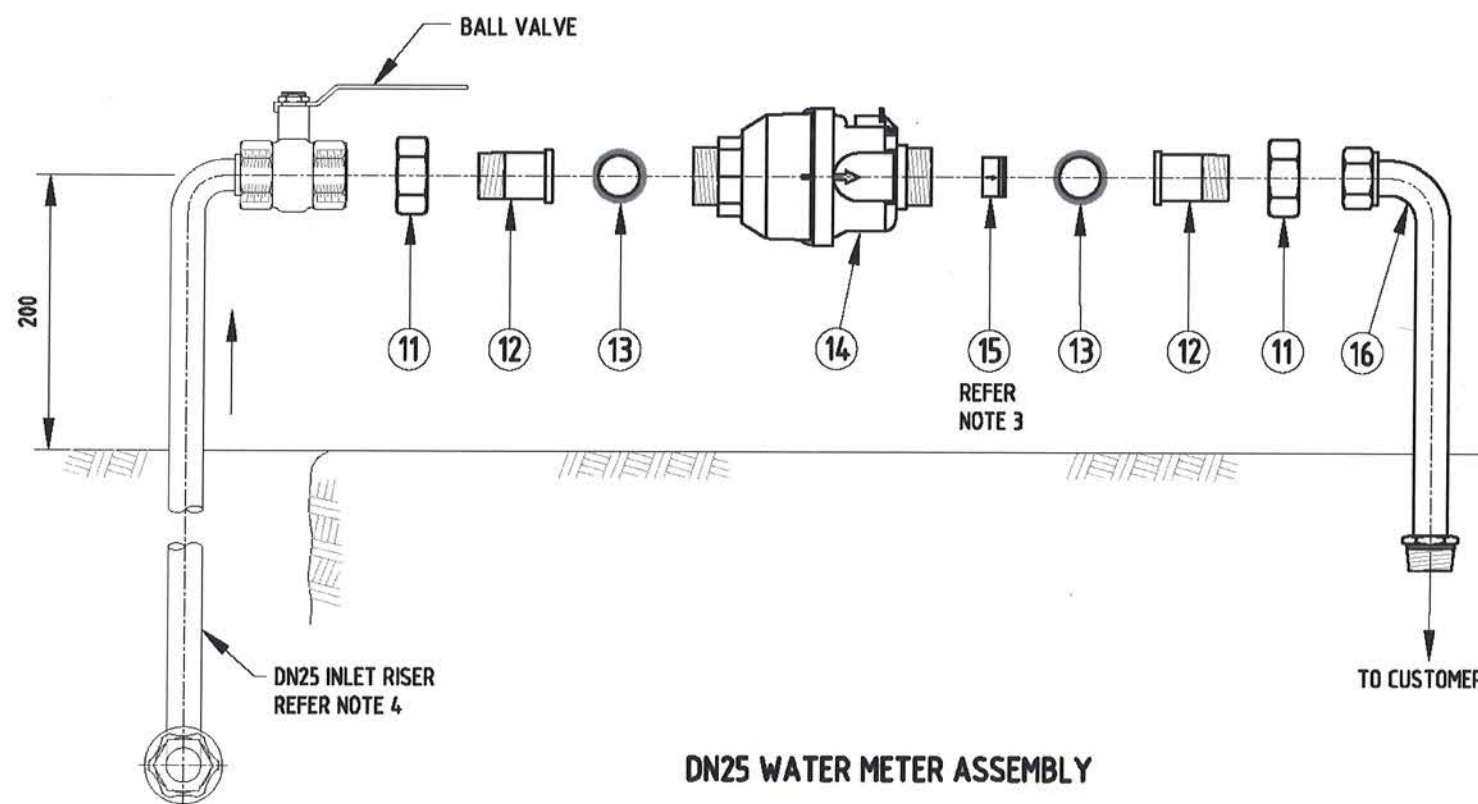



| MATERIALS LIST | | | | |
|----------------|-------------------------------------|------------|------|--|
| ITEM | DESCRIPTION | STOCK. No. | REQ. | COMMENTS |
| 1 | DN20 MARIC FLOW CONTROL VALVE | | 1 | REFER NOTE 3. |
| 2 | 19 mm NUT UNION DR BRASS | 4730-1771 | 1 | TO SUIT 20 mm DUAL CHECK TYPE WATER METER. |
| 3 | 19 mm TAILPIECE UNION DR BRASS | 4730-1736 | 1 | TO SUIT 20 mm DUAL CHECK TYPE WATER METER. |
| 4 | 29.5 mm OD X 3 mm T. RUBBER WASHER. | 5330-0246 | 2 | |
| 5 | DN20 WATER METER | | 1 | DUAL CHECK TYPE |
| 6 | DN20 x 300 mm OUTLET RISER | 4730-5133 | 1 | |

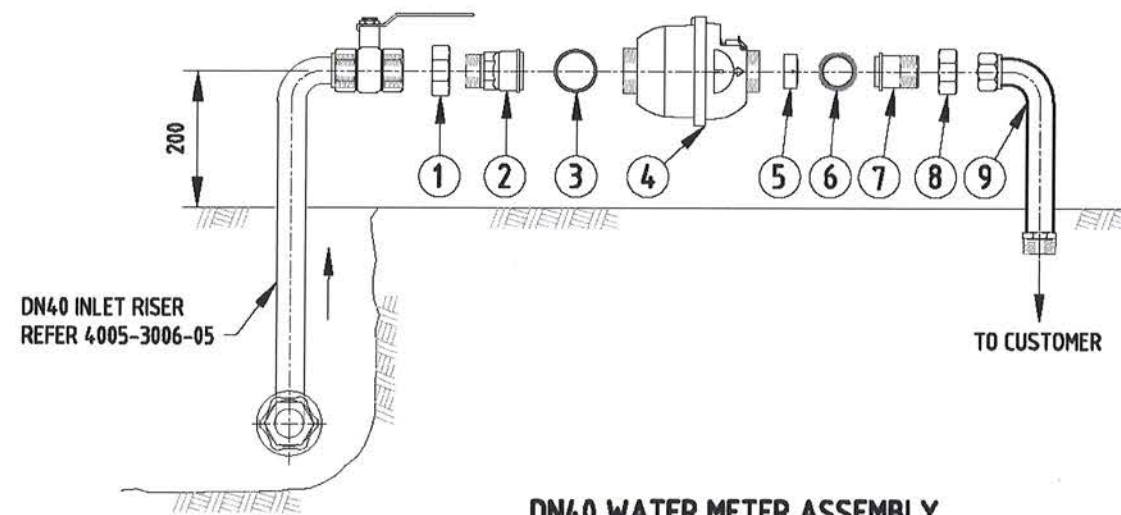


| MATERIALS LIST | | | | |
|----------------|------------------------------|------------|------|---------------------------|
| ITEM | DESCRIPTION | STOCK. No. | REQ. | COMMENTS |
| 11 | DN32 NUT UNION | 4730-1781 | 2 | TO SUIT DN25 WATER METER. |
| 12 | DN25 TAILPIECE UNION INLET | 4730-1768 | 2 | |
| 13 | DN25 WASHER INSERTION RUBBER | 5330-0248 | 2 | |
| 14 | DN25 WATER METER | | 1 | |
| 15 | DN25 MARIC CONTROL VALVE | | 1 | REFER NOTE 3. |
| 16 | DN25 x 300 mm OUTLET RISER | 4730-1383 | 1 | |

NOTES:

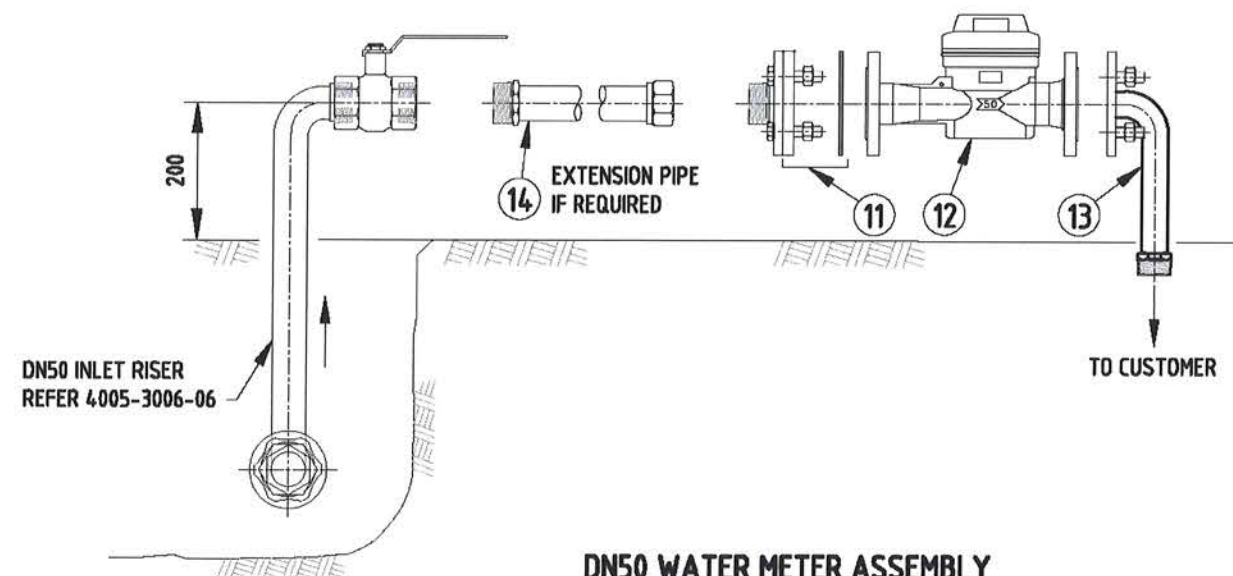
- SAFETY NOTE:
SAFETY - ELECTRICAL EARTH: CONNECT JUMPER LEADS UPSTREAM & DOWNSTREAM OF METER FITTING BEFORE REMOVING METER.
- REFER 4005-30002-01 & 4005-30002-02 FOR GENERAL NOTES.
- ITEMS 1 & 15 SHALL ONLY BE INSTALLED IF SPECIFIED AND APPROVED BY SA WATER. ALTERNATIVE FLOW RATES ARE AVAILABLE.
- REFER 4005-30006-01 & 4005-30006-02 FOR CONNECTION PIPE & INLET RISER DETAILS.
- STOCK No. REFERS TO SA WATER STOCK NUMBER FOR THAT FITTING.
- ALL DIMENSIONS IN MILLIMETRES.

| | | | | | | | | | | | | |
|----------------|----------|-----|-----------------------|-----|--------------|--------------------|----------------------|--|----------------------------------|---------------|---------------------------|----------|
| REVISION PANEL | | | | | DESIGN PANEL | | |  <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> | SA WATER STANDARD DRAWINGS | | A3 | 1 |
| REV | DATE | DRN | DETAILS | APR | CURRENT REV | DESIGNED: 28/09/15 | AUTHORISED: 31/03/16 | | WATER SUPPLY CONSTRUCTION MANUAL | | SHT SIZE | REVISION |
| | | | | | | RJP | T.GALEK | | DN20 & DN25 WATER METERS | | TOTAL SHEETS: | |
| | | | | | | DRAWN: 16/11/15 | SIGNATURE: | | ABOVE GROUND METER ASSEMBLY | | SUPERSEDES: E12, E13, E14 | |
| | | | | | | REVIEWED: 21/03/16 | T. Galek | | STANDARD INSTALLATION | | DRAWING NUMBER | |
| 1 | 31/03/16 | MS | 2016 STANDARDS REVIEW | TG | | TG | | | | 4005-30008-01 | | |
| | | | | | | | | | | PREFIX | NUMBER | SHEET |



DN40 WATER METER ASSEMBLY

| MATERIALS LIST | | | | |
|----------------|---------------------------------|------------|------|---------------------------|
| ITEM | DESCRIPTION | STOCK. No. | REQ. | COMMENTS |
| 1 | DN57 NUT UNION | 4730-1784 | 1 | TO SUIT DN40 WATER METER. |
| 2 | TAILPIECE UNION INLET | 4730-1814 | 1 | TO SUIT DN40 WATER METER. |
| 3 | WASHER, INSERTION RUBBER INLET | 5330-0252 | 1 | TO SUIT DN40 WATER METER. |
| 4 | DN40 WATER METER | | 1 | |
| 5 | DN40 FLOW CONTROL VALVE | | 1 | REFER NOTE 3. |
| 6 | WASHER, INSERTION RUBBER OUTLET | 5330-0251 | 1 | TO SUIT DN40 WATER METER. |
| 7 | DN40 TAILPIECE UNION OUTLET | 4730-1815 | 1 | |
| 8 | DN40 NUT UNION | 4730-1783 | 1 | |
| 9 | DN50 OUTLET RISER | 4730-1426 | 1 | |



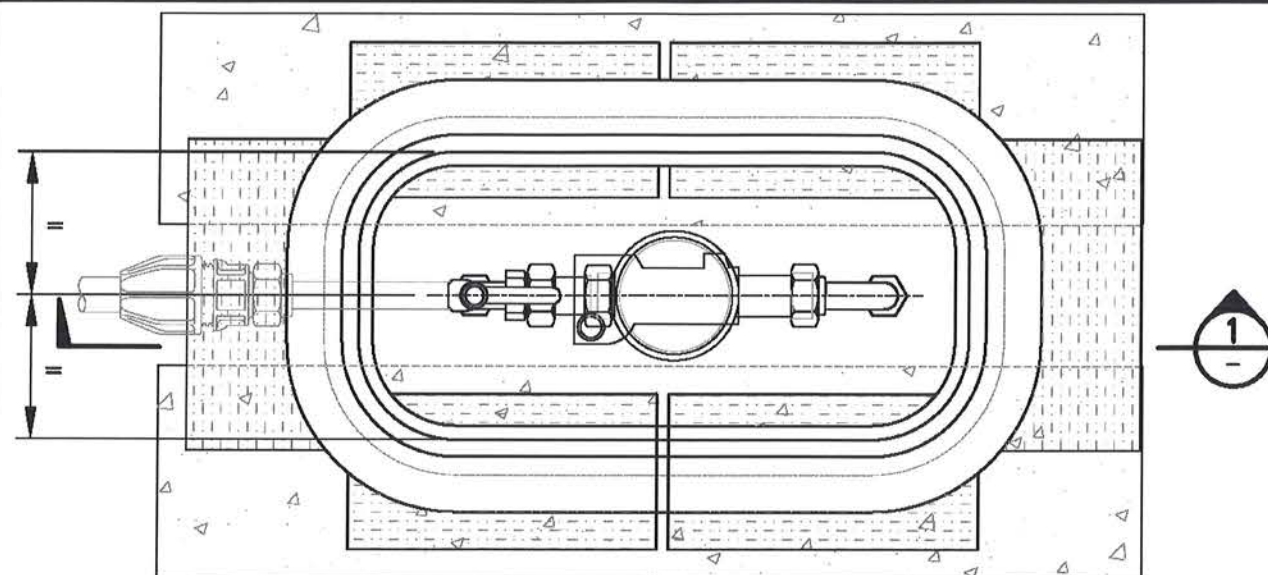
DN50 WATER METER ASSEMBLY

| MATERIALS LIST | | | | |
|----------------|---|------------|------|-------------------------------------|
| ITEM | DESCRIPTION | STOCK. No. | REQ. | COMMENTS |
| 11 | DN50 LOOSE RING JOINT FBE COATED FOR DN50 WATER METER | 6680-0683 | 1 | |
| 12 | DN50 WATER METER | | 1 | |
| 13 | DN50 OUTLET RISER (FLANGED) | | 1 | |
| 14 | DN50 x 500 LONG EXTENSION PIPE 50 BSP SPIG x 50 BSP SOC | 4730-1369 | 1 | FOR ABOVE GROUND INSTALLATION ONLY. |

NOTES:

- SAFETY NOTE:
SAFETY - ELECTRICAL EARTH: CONNECT JUMPER LEADS UPSTREAM & DOWNSTREAM OF METER FITTING BEFORE REMOVING METER.
- REFER 4005-30002-01 & 4005-30002-02 FOR GENERAL NOTES.
- ITEM 5 SHALL ONLY BE INSTALLED IF SPECIFIED AND APPROVED BY SA WATER. ALTERNATIVE FLOW RATES ARE AVAILABLE.
- STOCK No. REFERS TO SA WATER STOCK NUMBER FOR THAT FITTING.
- ALL DIMENSIONS IN MILLIMETRES.

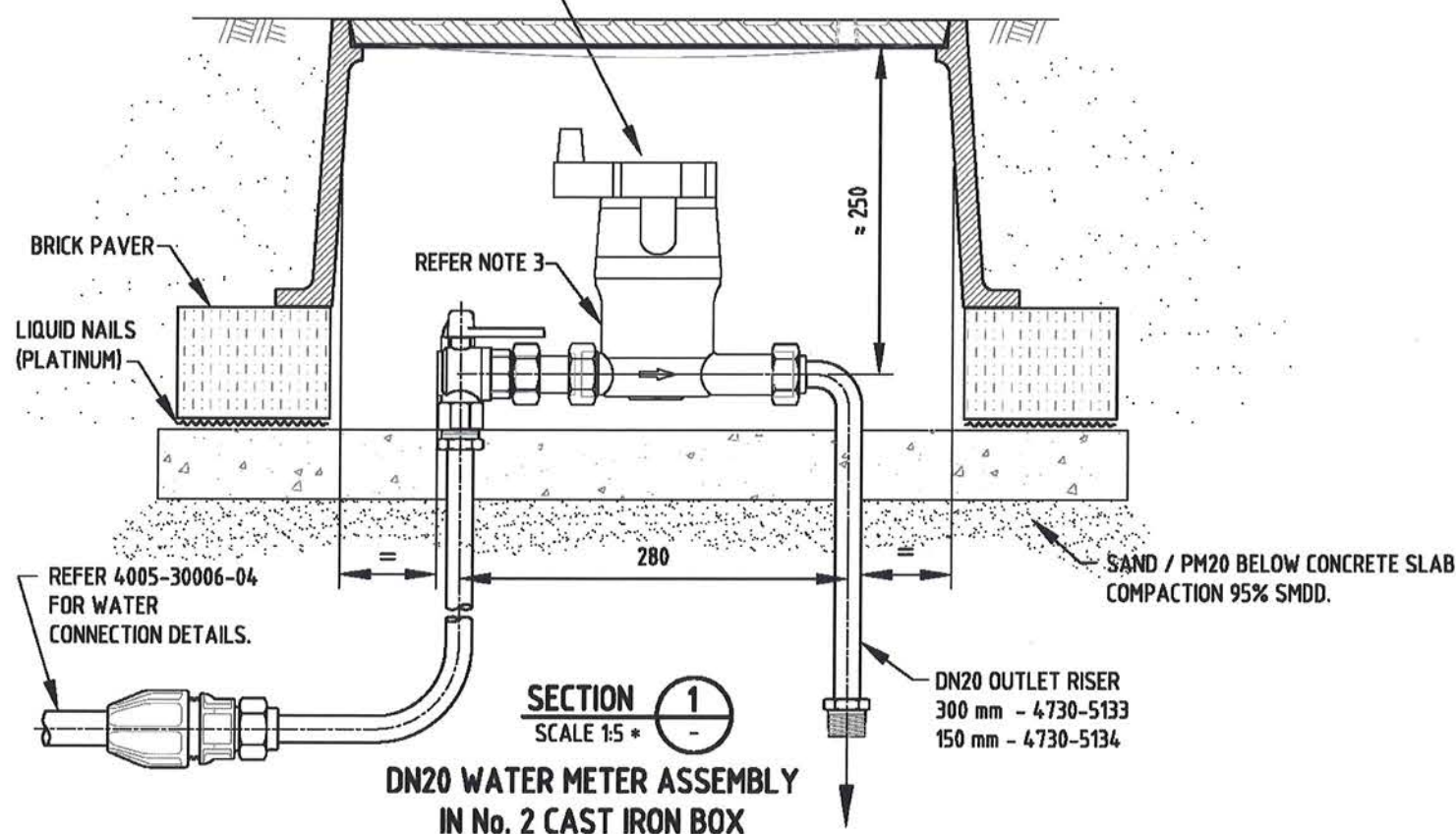
| REVISION PANEL | | | | | DESIGN PANEL | | SA WATER STANDARD DRAWINGS WATER SUPPLY CONSTRUCTION MANUAL DN40 & DN50 WATER METERS ABOVE GROUND METER ASSEMBLY STANDARD INSTALLATION | A3 SHT SIZE | 1 REVISION |
|----------------|----------|-----|-----------------------|-----|----------------------------|--|---|---|---------------|
| REV | DATE | DRN | DETAILS | APR | CURRENT REV AUTHORISED: | DESIGNED: 28/09/15 RJP DRAWN: 16/11/15 MS REVIEWED: 21/03/16 TG | | | |
| 1 | 31/03/16 | MS | 2016 STANDARDS REVIEW | TG | SIGNATURE: | AUTHORISED: 31/03/16 T.GALEK SIGNATURE: <i>T. Galek</i> | 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: SUPERSEDES: E16, E17 DRAWING NUMBER 4005-30008-02 PREFIX NUMBER SHEET | |
| | | | | | | | | | |



PLAN
LID NOT SHOWN
SCALE 1:5 *

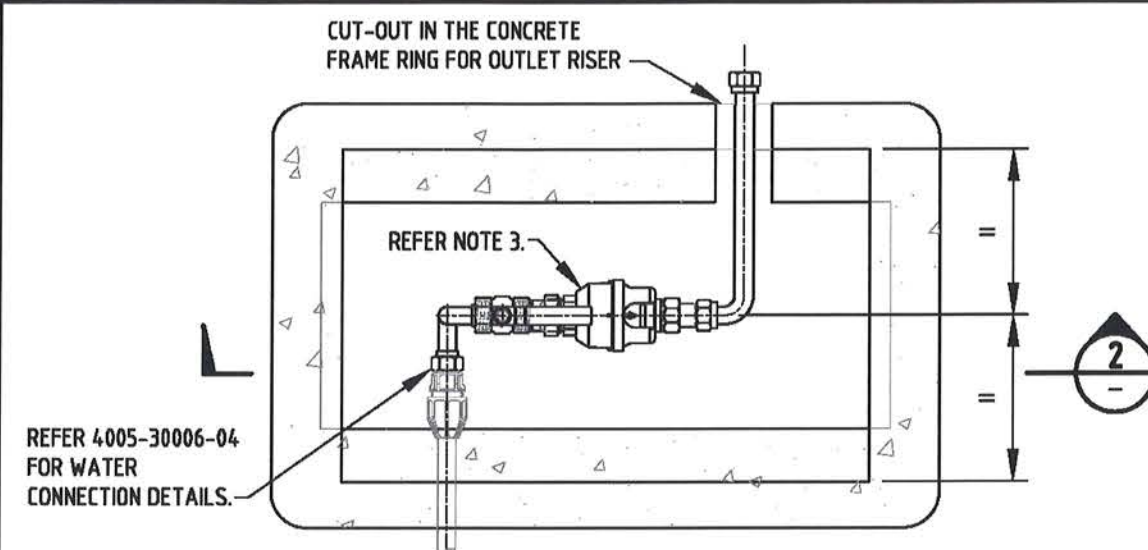
CONCRETE SUPPORT STRIPS
EITHER SIDE OF PIPE WORK

RADIO DATA LOGGER FOR REMOTE READING OF
THE WATER METER (IF REQUIRED).

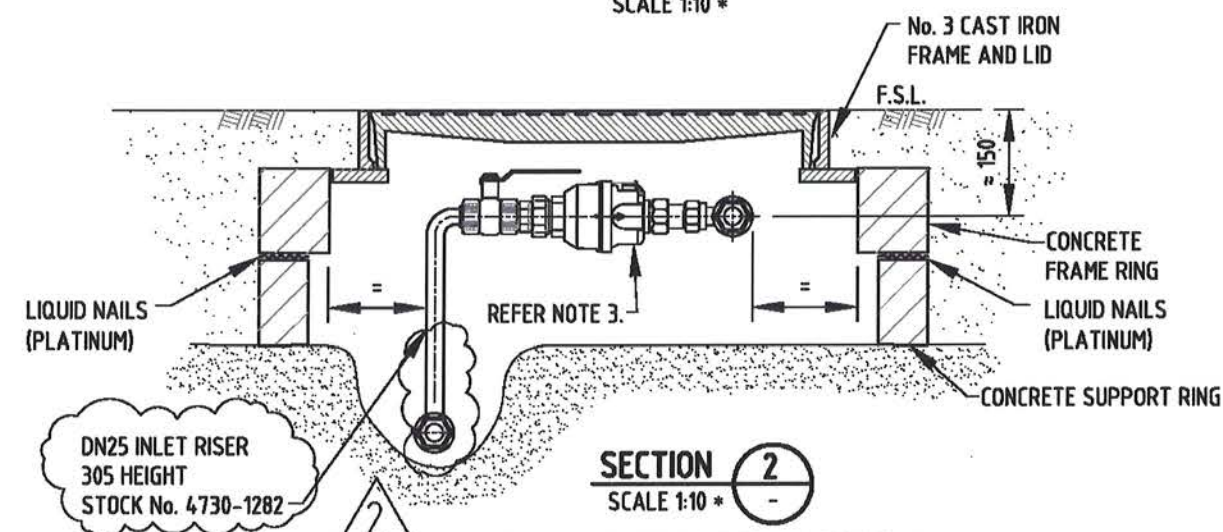


SECTION 1
SCALE 1:5 *

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



PLAN
LID NOT SHOWN
SCALE 1:10 *



SECTION 2
SCALE 1:10 *

**DN25 WATER METER ASSEMBLY
IN No. 3 CAST IRON BOX**

NOTES:

1. SAFETY NOTE:
SAFETY - ELECTRICAL EARTH: CONNECT JUMPER LEADS UPSTREAM & DOWNSTREAM OF METER FITTING BEFORE REMOVING METER.
2. REFER 4005-30002-01 & 4005-30002-02 FOR GENERAL NOTES.
3. REFER 4005-30008-01 FOR METER & COMPONENT DETAILS.
4. REFER 4005-30004-03 FOR ALLOCATION OF SPACE IN LAND DIVISIONS.
5. STOCK No. REFERS TO THE SA WATER STOCK NUMBER FOR THAT ITEM.
6. ALL DIMENSIONS IN MILLIMETRES.

* DO NOT SCALE OF PAPER DRAWING

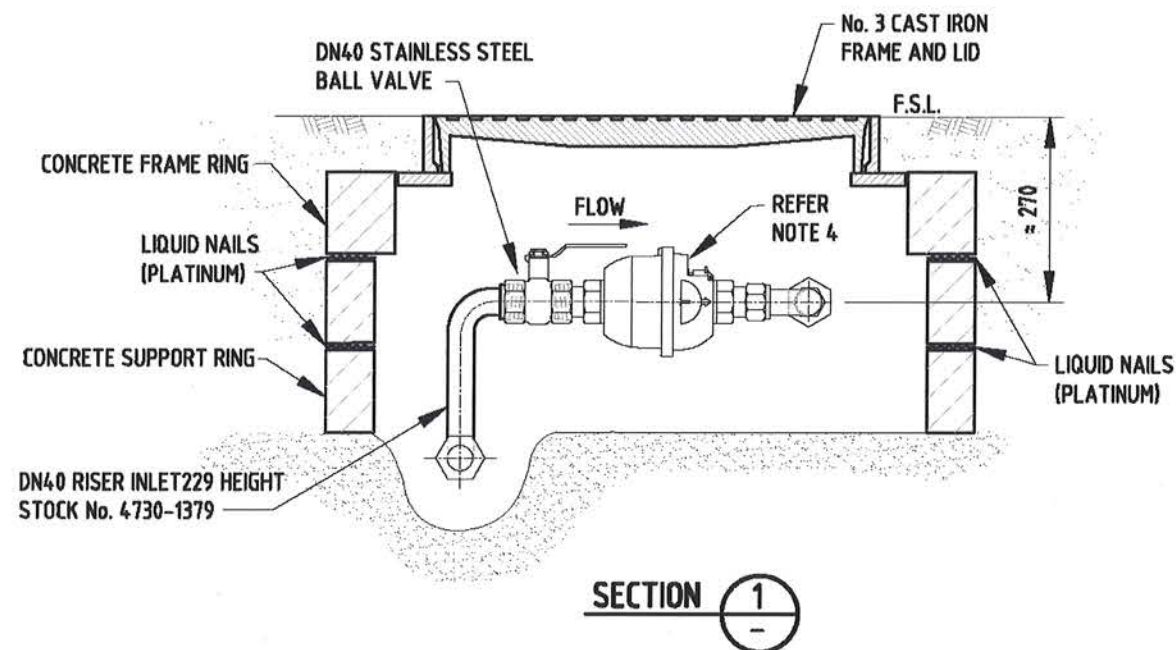
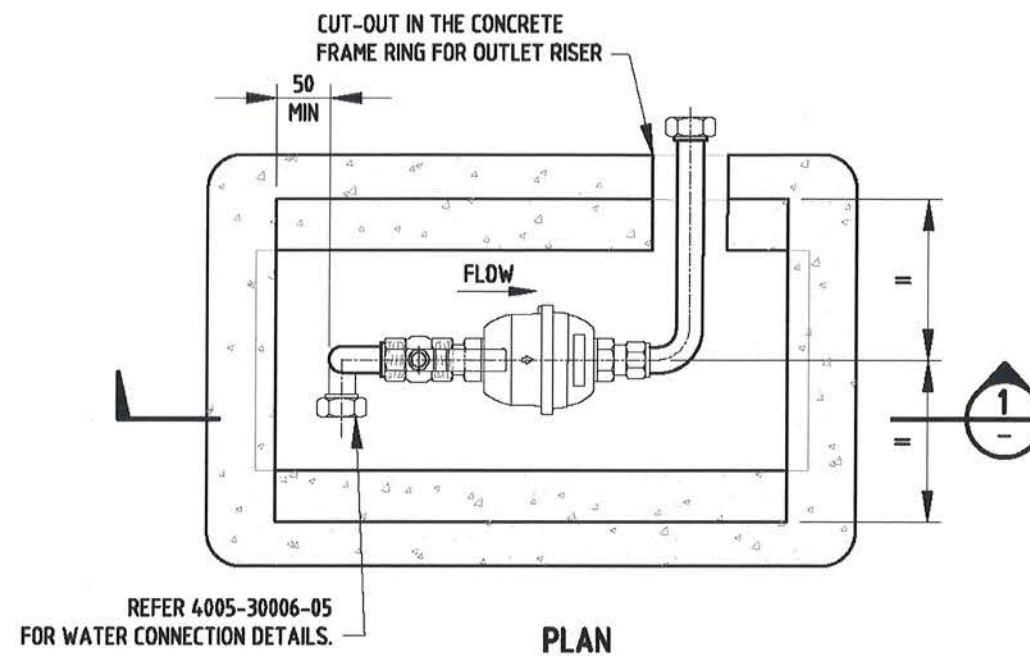
| REVISION PANEL | | | | |
|----------------|----------|-----|-------------------------------------|-----|
| REV | DATE | DRN | DETAILS | APR |
| 2 | 21/10/16 | RJP | DN25 INET RISER DESCRIPTION ALTERED | |
| 1 | 31/03/16 | MS | 2016 STANDARDS REVIEW | TG |

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

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WATER CORPORATION
and shall not be copied or modified
in part or in whole without authorization.

SA WATER STANDARD DRAWINGS
WATER SUPPLY CONSTRUCTION MANUAL
DN20 & DN25 WATER METERS
METER IN BELOW GROUND CHAMBER
STANDARD INSTALLATION


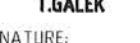
| | |
|------------------------------|----------|
| A3 | 2 |
| SHT SIZE | REVISION |
| TOTAL SHEETS: | |
| SUPERSEDES: 96-0083-01 (L16) | |
| DRAWING NUMBER | |
| 4005-30008-03 | |
| PREFIX | SHEET |

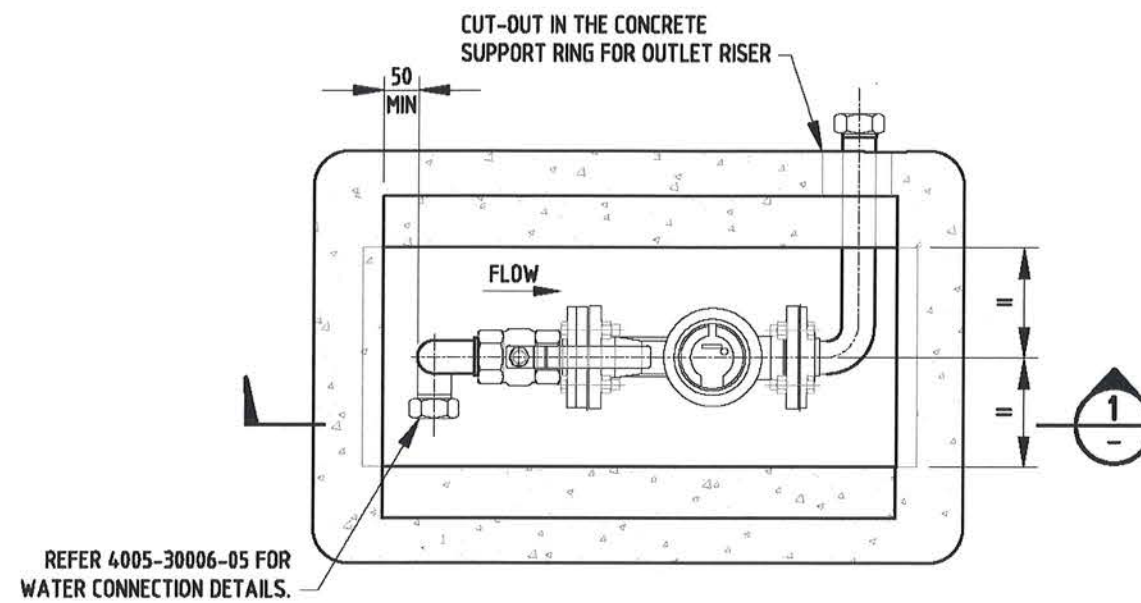


DN40 WATER METER ASSEMBLY
IN No3 CAST IRON BOX

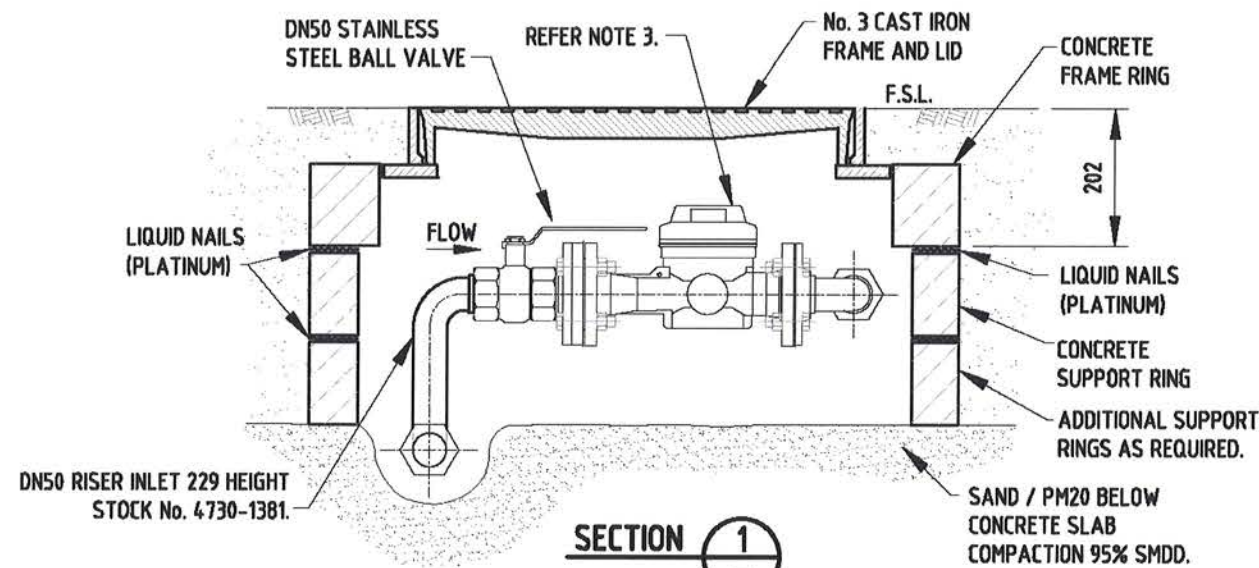
NOTES:

1. SAFETY NOTE:
SAFETY - ELECTRICAL EARTH: CONNECT JUMPER LEADS UPSTREAM & DOWNSTREAM OF METER FITTING BEFORE REMOVING METER.
2. REFER 4005-30002-01 & 4005-30002-02 FOR GENERAL NOTES.
3. REFER 4005-30008-02 FOR WATER METER & COMPONENT DETAILS.
4. REFER 4005-30004-03 FOR ALLOCATION OF SPACE IN LAND DIVISIONS.
5. STOCK NO. REFERS TO THE SA WATER STOCK No. FOR THAT ITEM.
6. ALL DIMENSIONS IN MILLIMETRES.

| | | | | | | | | | | | | |
|----------------|----------|-----|-----------------------|-----|--------------|--------------------|---|---|----------------------------------|---------------|------------------------------|----------|
| REVISION PANEL | | | | | DESIGN PANEL | | <div><p>SA Water</p><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></div> | SA WATER STANDARD DRAWINGS | | A3 | 1 | |
| REV | DATE | DRN | DETAILS | APR | CURRENT REV | DESIGNED: 28/09/15 | | AUTHORISED: 31/03/16 | WATER SUPPLY CONSTRUCTION MANUAL | | SHT SIZE | REVISION |
| | | | | | | RJP | | T.GALEK | DN40 WATER METER | | TOTAL SHEETS: | |
| | | | | | | DRAWN: 16/11/15 | | SIGNATURE: | METER IN BELOW GROUND CHAMBER | | SUPERSEDES: 96-0084-02 (L17) | |
| | | | | | | MS | |  | STANDARD INSTALLATION | | DRAWING NUMBER | |
| 1 | 31/03/16 | MS | 2016 STANDARDS REVIEW | TG | | REVIEWED: 21/03/16 | TG | | | 4005-30008-04 | | |
| | | | | | | | | | | PREFIX | SHEET | |
| | | | | | | | | | | NUMBER | | |





PLAN

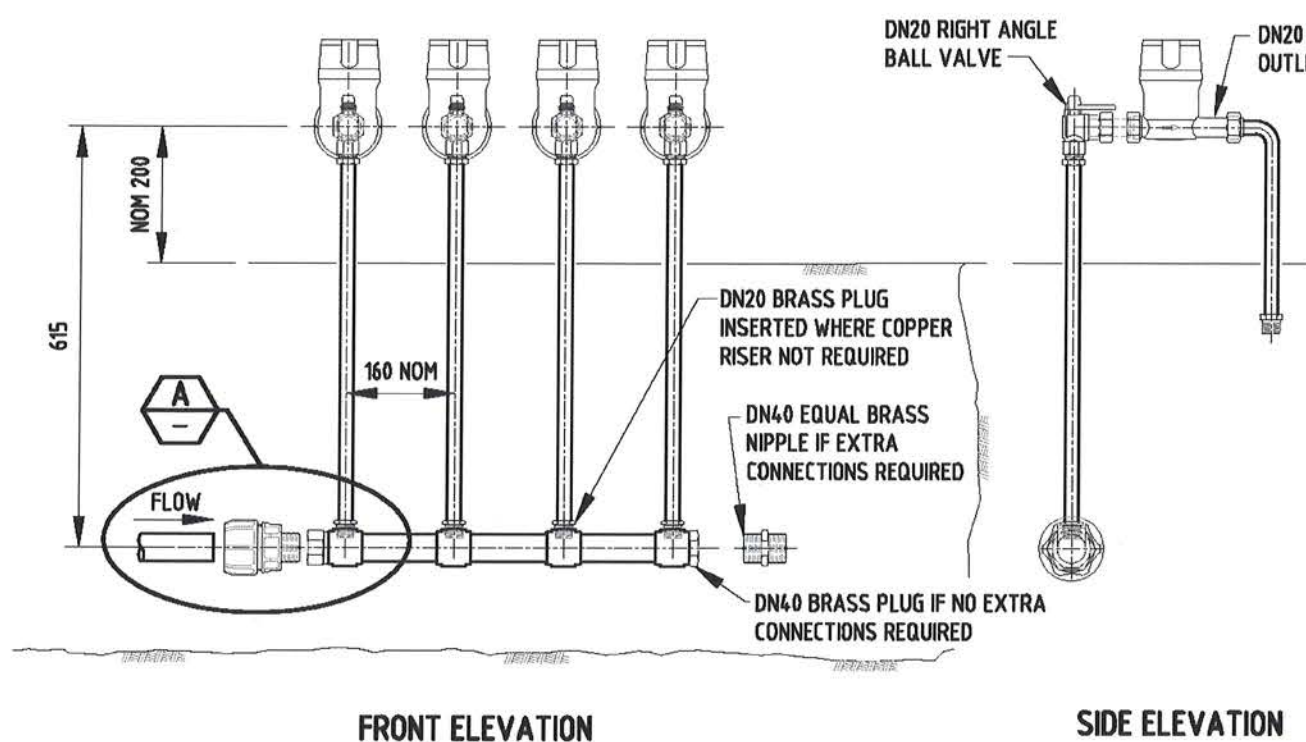


SECTION 1
DN50 WATER METER ASSEMBLY
IN No3 CAST IRON BOX

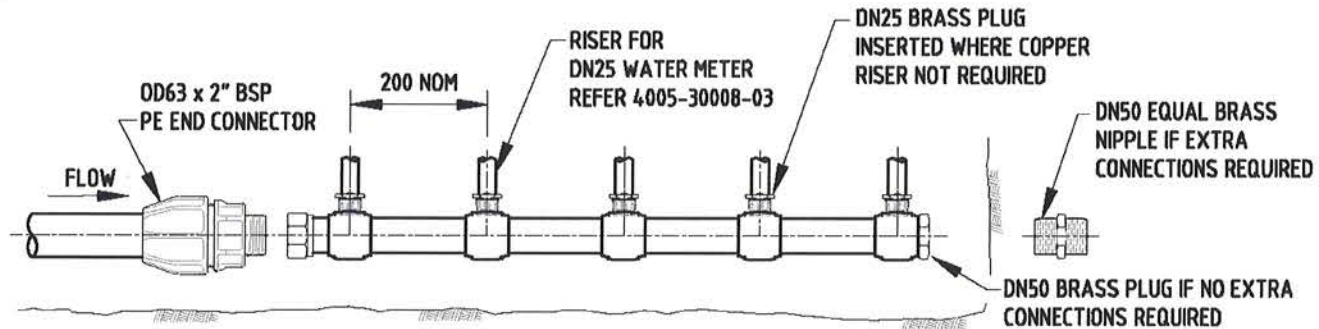
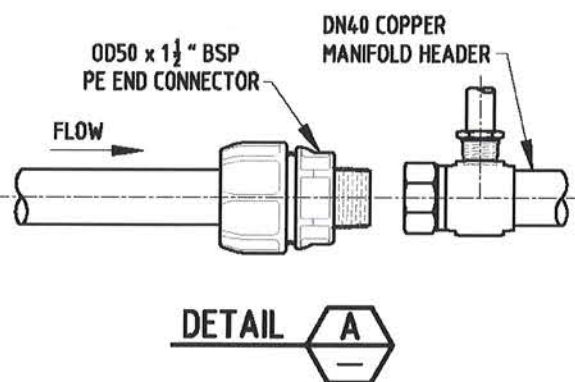
NOTES:

1. SAFETY NOTE:
SAFETY - ELECTRICAL EARTH: CONNECT JUMPER LEADS UPSTREAM & DOWNSTREAM OF METER FITTING BEFORE REMOVING METER.
2. REFER 4005-30002-01 & 4005-30002-02 FOR GENERAL NOTES.
3. REFER 4005-30008-02 FOR WATER METER & COMPONENT DETAILS.
4. REFER 4005-30004-03 FOR ALLOCATION OF SPACE IN LAND DIVISIONS.
5. STOCK NO. REFERS TO THE SA WATER STOCK NO. FOR THAT ITEM.
6. ALL DIMENSIONS IN MILLIMETRES.

| REVISION PANEL | | | | | DESIGN PANEL | | <div><p>SA Water</p><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></div> | SA WATER STANDARD DRAWINGS | | A3 | 1 | |
|----------------|----------|-----|-----------------------|-----|--------------|--------------------|---|---|----------------------------------|---------------|------------------------------|----------|
| REV | DATE | DRN | DETAILS | APR | CURRENT REV | DESIGNED: 28/09/15 | | AUTHORISED: 31/03/16 | WATER SUPPLY CONSTRUCTION MANUAL | | SHT SIZE | REVISION |
| | | | | | AUTHORISED: | RJP | | T.GALEK | | | TOTAL SHEETS: | |
| | | | | | SIGNATURE: | DRAWN: 16/11/15 | | SIGNATURE: | DN50 WATER METERS | | SUPERSEDES: 96-0084-02 (L18) | |
| | | | | | | MS | |  | METER IN BELOW GROUND CHAMBER | | DRAWING NUMBER | |
| 1 | 31/03/16 | MS | 2016 STANDARDS REVIEW | TG | | REVIEWED: 21/03/16 | TG | STANDARD INSTALLATION | | 4005-30008-05 | | |
| | | | | | | | | | | PREFIX | NUMBER | SHEET |



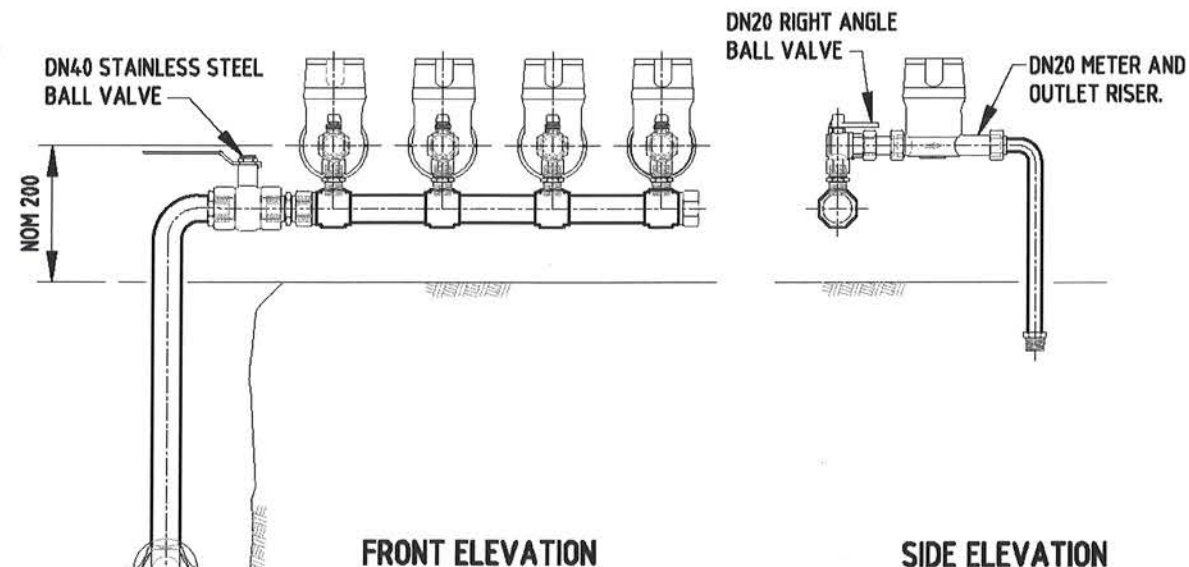
**DN20 WATER METERS
DN40 MANIFOLD - OPTION 1**
(REFER TABLE 1 FOR OTHER SIZES)



**DN25 WATER METERS
DN50 MANIFOLD**
(REFER TABLE 1 FOR OTHER SIZES)

MANIFOLD SIZING:

- MANIFOLDS ARE AVAILABLE WITH OPTIONS FOR DIFFERING NUMBERS OF INLET RISERS.
- MANIFOLDS ARE ABLE TO BE JOINED TO ACHIEVE, **UP TO A MAXIMUM NUMBER OF 12 DN20 RISERS.**
- MANIFOLD SIZING & AVAILABILITY IS LISTED IN TABLE 1.




**DN20 WATER METERS
DN40 MANIFOLD - OPTION 2**
(REFER TABLE 1 FOR OTHER SIZES)

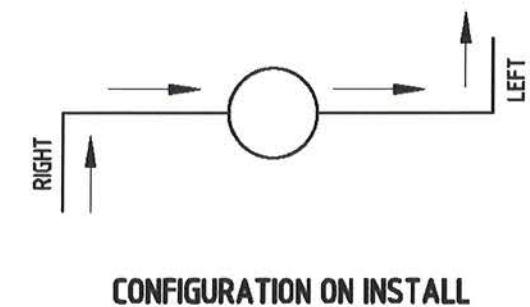
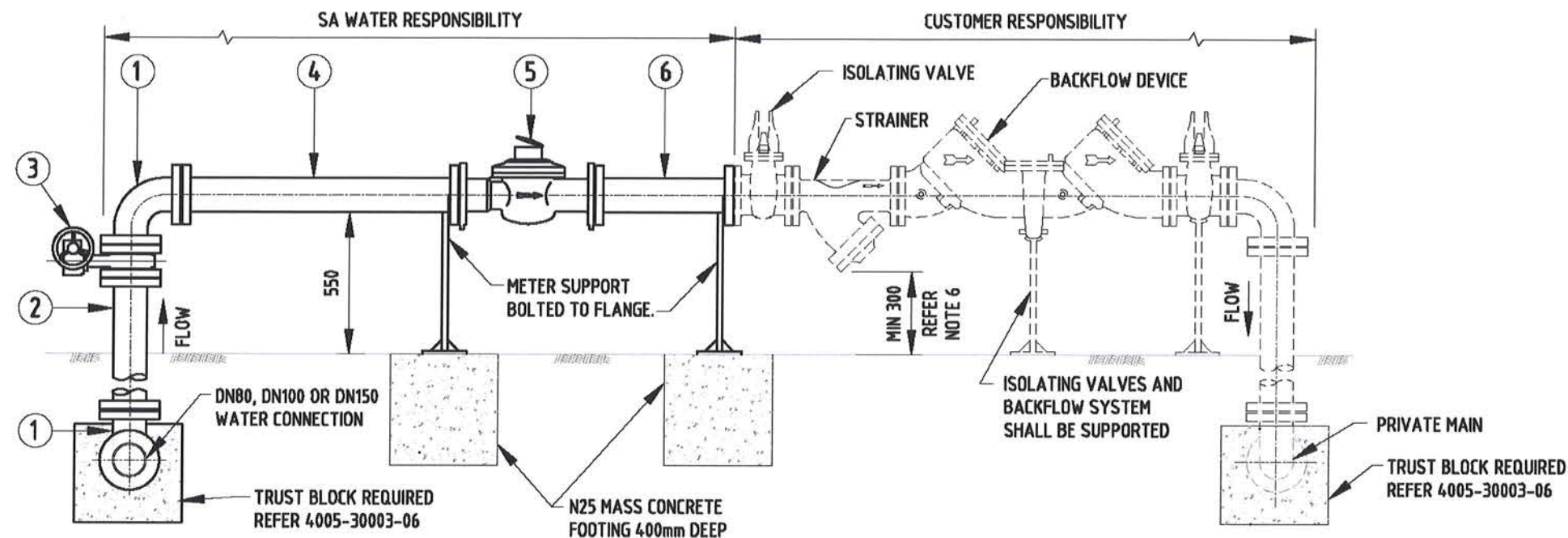
TABLE 1

| MANIFOLD SIZING & AVAILABILITY OPTIONS | | | |
|--|--------|--------------|--------------------|
| MANIFOLD | RISERS | STOCK NO. | COMMENT |
| 25 | 2 | 20 4730-0089 | |
| 25 | 3 | 20 4730-0092 | |
| 25 | 4 | 20 | REFER MANUFACTURER |
| 40 | 3 | 20 4730-0090 | |
| 40 | 4 | 20 4730-0091 | |
| 40 | 5 | 20 4730-0093 | |
| 40 | 6 | 20 4730-0094 | |
| 50 | 5 | 25 | REFER MANUFACTURER |

NOTES:

1. DN20 WATER METER MANIFOLD INSTALLATION:
OPTION 1: IS THE PREFERRED OPTION.
OPTION 2: REQUIRES APPROVAL OF THE SA WATER REPRESENTATIVE.
2. SAFETY NOTE:
SAFETY - ELECTRICAL EARTH: CONNECT JUMPER LEADS UPSTREAM & DOWNSTREAM OF METER FITTING BEFORE REMOVING METER.
3. REFER 4005-30002-01 & 4005-30002-02 FOR GENERAL NOTES.
4. REFER 4005-30008-02 FOR WATER METER ASSEMBLY.
5. PROTECT ALL BELOW GROUND BRASS FITTINGS WITH PETROLATUM ANTI-CORROSION SYSTEM IN ACCORDANCE WITH TS 18.
6. PE JOINERS AND CLOSURES PROVIDED WITH MANIFOLD.
7. STOCK NO. REFERS TO THE SA WATER STOCK NO. FOR THAT ITEM.
8. ALL DIMENSIONS IN MILLIMETRES.

| REVISION PANEL | | | | | DESIGN PANEL | | <div><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></div> | SA WATER STANDARD DRAWINGS | | A3 | 1 | |
|----------------|----------|-----|-----------------------|-----|--------------|--------------------|--|--|----------------------------------|----------------|----------------------|----------|
| REV | DATE | DRN | DETAILS | APR | CURRENT REV | DESIGNED: 28/09/15 | | THAT AUTHORIZED: 31/03/16 | WATER SUPPLY CONSTRUCTION MANUAL | | SHT SIZE | REVISION |
| | | | | | | RJP | | T.GALEK | | | TOTAL SHEETS: | |
| | | | | | | DRAWN: 16/11/15 | | SIGNATURE: | | | SUPERSEDES: E20, E22 | |
| | | | | | | MS | | | | DRAWING NUMBER | | |
| 1 | 31/03/16 | MS | 2016 STANDARDS REVIEW | TG | | REVIEWED: 21/03/16 | T. Galek | DN20 & DN25 WATER METERS MANIFOLD ASSEMBLY STANDARD INSTALLATION | | 4005-30008-06 | | |
| | | | | | | TG | | | | PREFIX | SHEET | |



SA WATER PIPEWORK - FITTINGS SCHEDULE WITH SA WATER STOCK NUMBERS

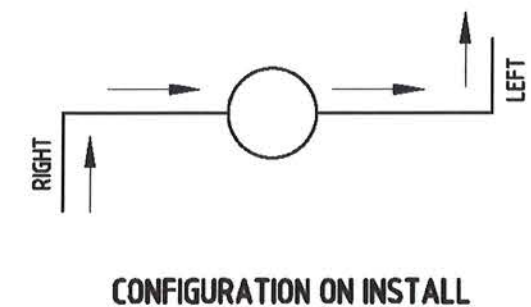
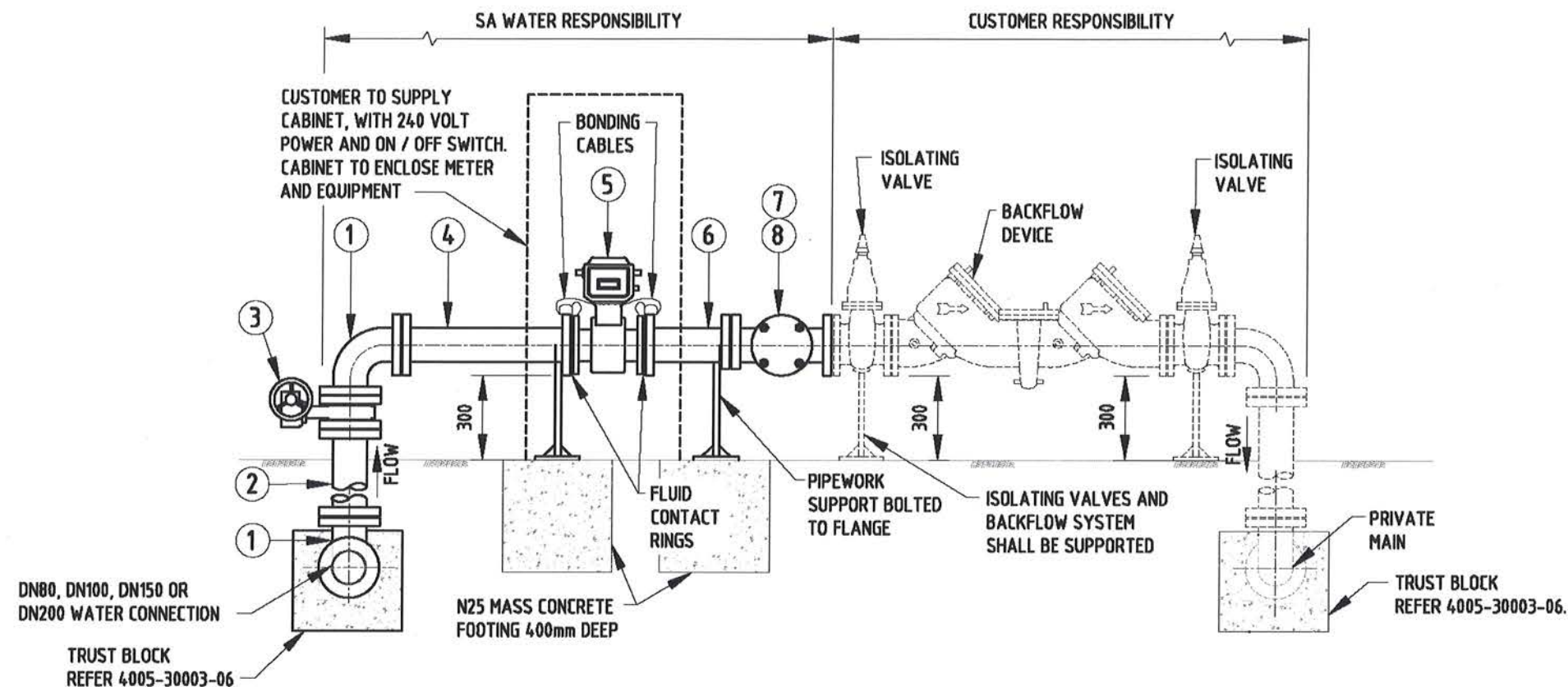
| ITEM | DESCRIPTION | DN80 | STOCK No. | DN100 | STOCK No. | DN150 | STOCK No. |
|------|---|-----------|-----------|-------------|-----------|-------------|-----------|
| 1 | 90° BEND FLANGE/FLANGE | ø80 | 4730-0962 | ø100 | 4730-0963 | ø150 | 4730-0964 |
| 2 | EXTENSION PIPE FLANGE/FLANGE # | # x ø80 | - | # x ø100 | - | # x ø150 | - |
| 3 | WAFER TYPE BUTTERFLY VALVE - GEAR ACTUATOR OPERATED | ø80 | - | ø100 | - | ø150 | - |
| 4 | EXTENSION PIPE FLANGE/ FLANGE | 800 x ø80 | - | 1000 x ø100 | - | 1500 x ø150 | - |
| 5 | TURBINE FLOW WATER METER | ø80 | - | ø100 | - | ø150 | - |
| 6 | EXTENSION PIPE FLANGE/ FLANGE | 400 x ø80 | - | 500 x ø100 | - | 750 x ø150 | - |
| - | GASKET - 3mm INSERTION RUBBER GASKET | ø80 | 5330-0212 | ø100 | 5330-0213 | ø150 | 5330-0214 |

LENGTH TO BE DETERMINED ON SITE.

NOTES:

- REFER 4005-30002-01 & 4005-30002-02 FOR GENERAL NOTES.
- FLANGED PIPEWORK SHALL BE USED.
- INSTALLATIONS IN TRAFFICABLE AREAS SHALL HAVE PROTECTION POSTS INSTALLED.
- THRUST BLOCKS SHALL BE INSTALLED ON INLET AND OUTLET BENDS. REFER SECTION 6.
- TURBINE FLOW WATER METERS SHALL BE INSTALLED IN COMPLIANCE WITH MANUFACTURER'S INSTRUCTIONS.
- MIN 300 FROM GROUND TO THE UNDERSIDE OF STRAINER OR BACK-FLOW DEVICE WHICH EVER IS CLOSEST.
- ALL DIMENSIONS IN MILLIMETRES.

| | | | | | | | | | | |
|----------------|----------|-----|-----------------------|--------------|-------------|--|----------------------------------|---------------|--|------------------------------|
| REVISION PANEL | | | | DESIGN PANEL | | <p>SA Water</p> <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> | SA WATER STANDARD DRAWINGS | | <p>A3</p> <p>SHT SIZE</p> <p>1</p> <p>REVISION</p> | |
| REV | DATE | DRN | DETAILS | APR | CURRENT REV | | WATER SUPPLY CONSTRUCTION MANUAL | | | TOTAL SHEETS: |
| | | | | | AUTHORISED: | | DN80, DN100 & DN150 | | | SUPERSEDES: 91-0085-01 (E18) |
| | | | | | SIGNATURE: | | WATER CONNECTIONS | | | DRAWING NUMBER |
| 1 | 31/03/16 | MS | 2016 STANDARDS REVIEW | TG | | ABOVE GROUND TURBINE METER | | 4005-30008-07 | | |
| | | | | | | | | PREFIX | NUMBER | SHEET |



DN80, DN100, DN150 AND DN200 METER ASSEMBLY

SA WATER PIPEWORK - FITTINGS SCHEDULE WITH SA WATER STOCK NUMBERS

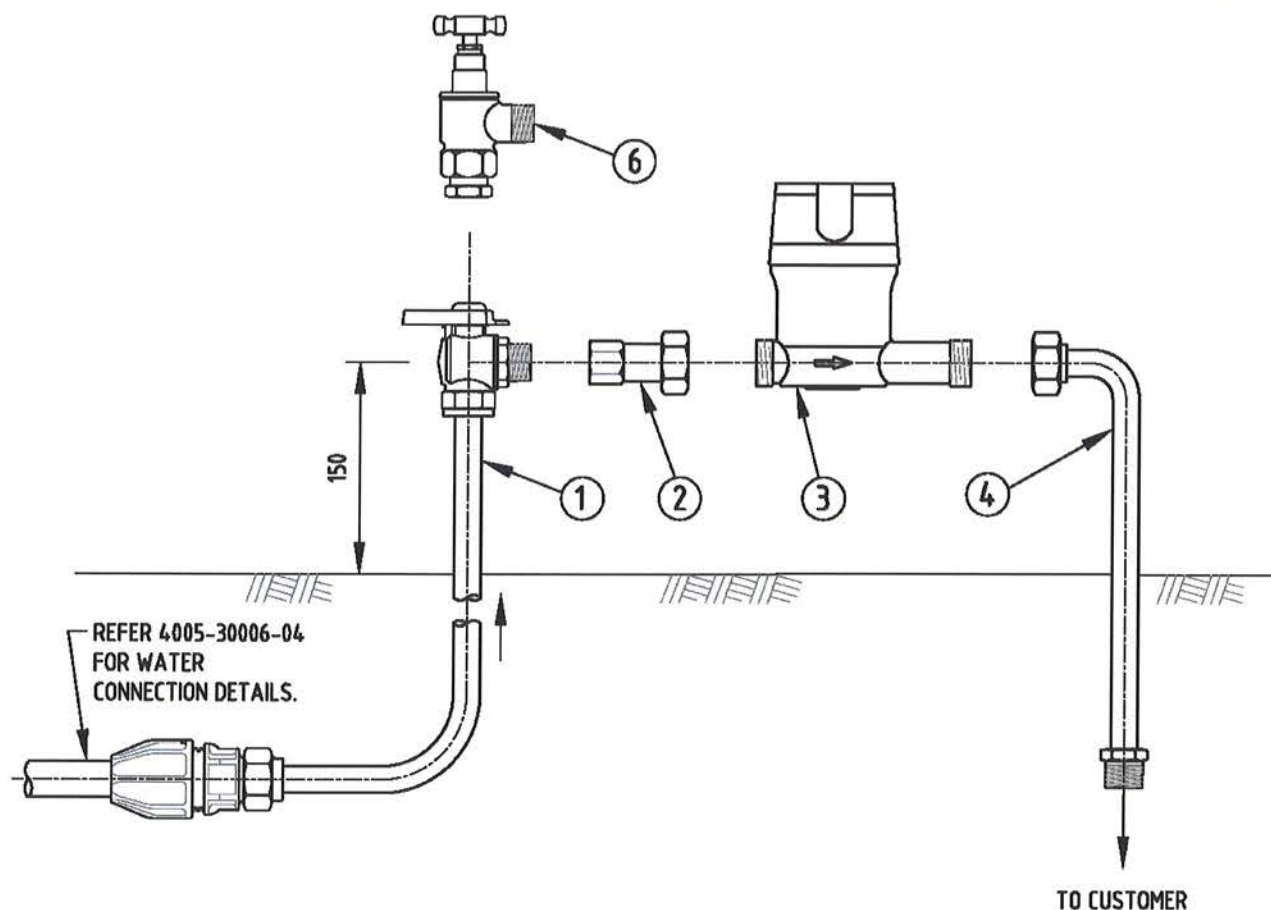
| ITEM | DESCRIPTION | DN80 | STOCK No. | DN100 | STOCK No. | DN150 | STOCK No. | DN200 | STOCK No. |
|------|--|-------------|-----------|--------------|-----------|--------------|-----------|--------------|-----------|
| 1 | 90° BEND FLANGE /FLANGE | ø80 | 4730-0962 | ø100 | 4730-0963 | ø150 | 4730-0964 | ø200 | 4730-0965 |
| 2 | EXTENSION PIPE FLANGE /FLANGE # | # x ø80 | - | # x ø100 | - | # x ø150 | - | # x ø200 | - |
| 3 | WAFFER TYPE BUTTERFLY VALVE - GEAR ACTUATOR OPERATED | ø80 | - | ø100 | - | ø150 | - | ø200 | - |
| 4 | EXTENSION PIPE FLANGE /FLANGE | 450 x ø80 | 4730-1136 | 600 x ø100 | 4730-1142 | 760 x ø150 | 4730-1150 | 1065 x ø200 | 4730-1160 |
| 5 | MAG FLOW WATER METER | ø80 | - | ø100 | - | ø150 | - | ø200 | - |
| 6 | EXTENSION PIPE FLANGED | 225 x ø80 | 4730-1133 | 300 x ø100 | 4730-1140 | 455 x ø150 | 4730-1148 | 610 x ø200 | 4730-1157 |
| 7 | TEE FLANGE/ FLANGE/ BRANCH FLANGE - ø80 BR | ø80 OFF ø80 | 4730-1042 | ø80 OFF ø100 | 4730-1043 | ø80 OFF ø150 | 4730-1045 | ø80 OFF ø200 | 4730-5050 |
| 8 | BLIND FLANGE - ø80 | ø80 | 4730-1318 | ø80 | 4730-1318 | ø80 | 4730-1318 | ø80 | 4730-1318 |
| - | GASKET - 3mm INSERTION RUBBER GASKET | ø80 | 5330-0212 | ø100 | 5330-0213 | ø150 | 5330-0214 | ø200 | 5330-0215 |

LENGTH TO BE DETERMINED ON SITE.

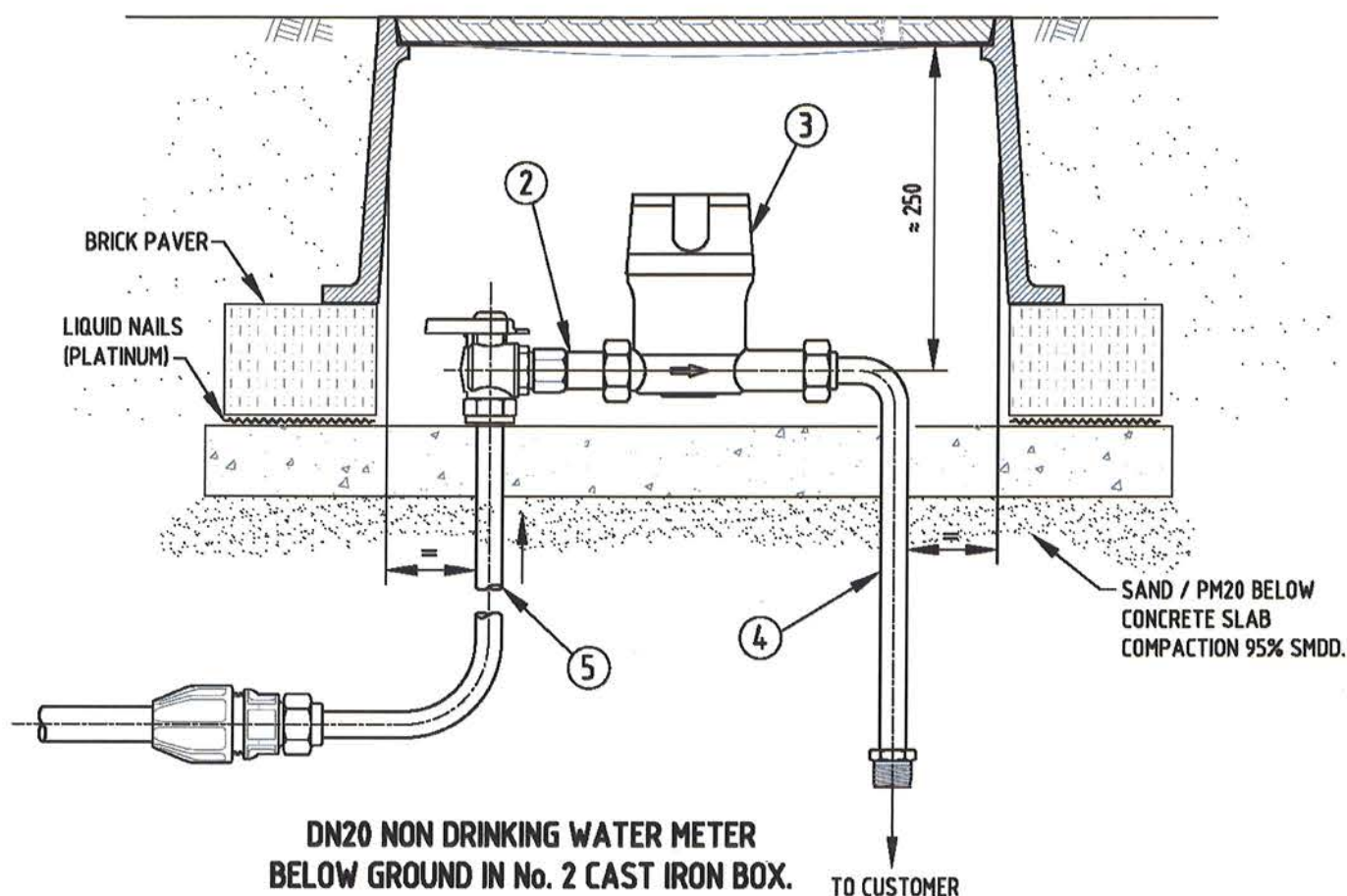
NOTES:

- REFER 4005-30002-01 & 4005-30002-02 FOR GENERAL NOTES.
- FLANGED PIPEWORK SHALL BE USED.
- INSTALLATIONS IN TRAFFICABLE AREAS SHALL HAVE PROTECTION POSTS INSTALLED.
- THRUST BLOCKS SHALL BE INSTALLED ON INLET AND OUTLET BENDS. REFER SECTION 6.
- TURBINE FLOW WATER METERS SHALL BE INSTALLED IN COMPLIANCE WITH MANUFACTURER'S INSTRUCTIONS.
- MIN 300 FROM GROUND TO THE UNDERSIDE OF STRAINER OR BACK-FLOW DEVICE WHICH EVER IS CLOSEST.
- ALL DIMENSIONS IN MILLIMETRES.

| | | | | | | | | | |
|----------------|----------|-----|-----------------------|--------------|-------------|--|----------------------------------|-------------------------------|--|
| REVISION PANEL | | | | DESIGN PANEL | | <p>SA Water</p> <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> | SA WATER STANDARD DRAWINGS | | <p>A3</p> <p>SHT SIZE</p> <p>1</p> <p>REVISION</p> |
| REV | DATE | DRN | DETAILS | APR | CURRENT REV | | WATER SUPPLY CONSTRUCTION MANUAL | | |
| | | | | | AUTHORISED: | DN80, DN100, DN150 AND DN200 | | TOTAL SHEETS: | |
| | | | | | SIGNATURE: | WATER CONNECTIONS | | SUPERSEDES: 2005-01172A (E19) | |
| | | | | | | ABOVE GROUND MAG FLOW METER | | DRAWING NUMBER | |
| 1 | 31/03/16 | MS | 2016 STANDARDS REVIEW | TG | | | | 4005-30008-08 | |
| | | | | | | | | PREFIX NUMBER SHEET | |



**DN20 NON DRINKING WATER METER
ABOVE GROUND**




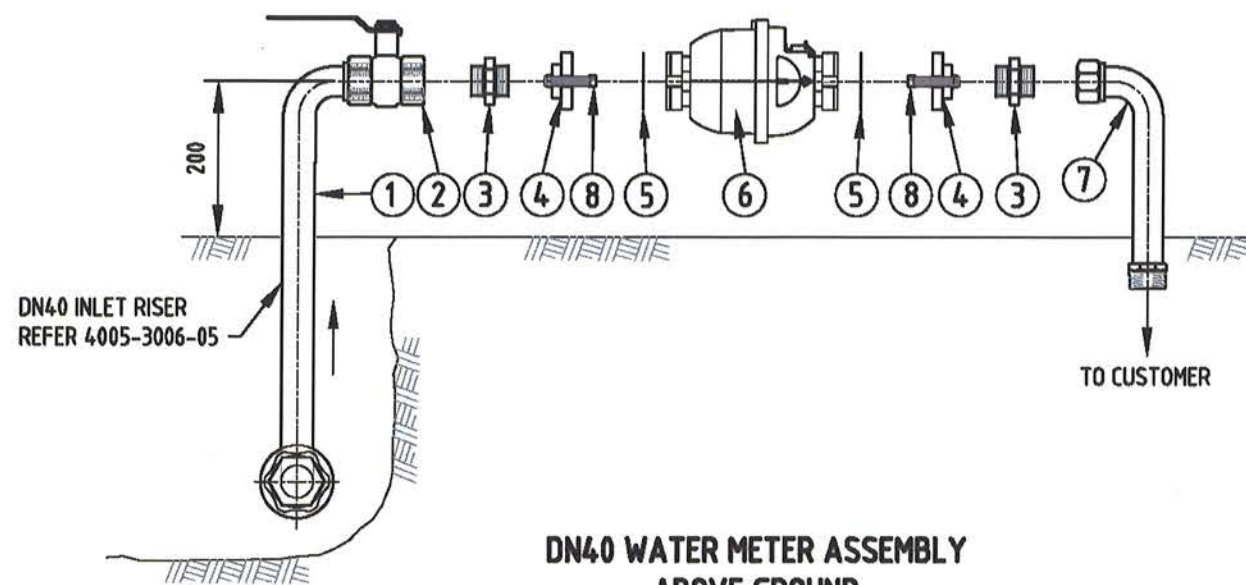
**DN20 NON DRINKING WATER METER
BELOW GROUND IN No. 2 CAST IRON BOX.**

NOTES:

- ONLY ITEMS SPECIFIED IN THE MATERIALS LIST SHALL BE INSTALLED.
- REFER 4005-30002-01 & 4005-30002-02 FOR GENERAL NOTES.
- NON DRINKING WATER CONNECTIONS SHALL BE LAID IN ACCORDANCE WITH DRINKING WATER CONNECTIONS. REFER SECTION 6 DRAWINGS.
- ALL NON DRINKING PIPE FITTINGS, INLET/ OUTLET RISERS AND WATER METER SHALL BE PAINTED LILAC (P23, AS 2700).
- WHERE THE PAINTED COMPONENTS HAVE BEEN DIMINISHED OR SCRATCHED DURING INSTALLATION, THE CONTRACTOR SHALL USED SPRAY PAINT TO TOUCH UP COMPONENTS TO THE SATISFACTION OF THE SA WATER REPRESENTATIVE. REFER TS 0503, CLAUSE 15.1 FOR THE APPROVED PAINT.
- SAFETY NOTE:
SAFETY - ELECTRICAL EARTH: CONNECT JUMPER LEADS UPSTREAM & DOWNSTREAM OF METER FITTING BEFORE REMOVING METER.
- STOCK No. REFERS TO SA WATER STOCK NUMBER FOR THAT FITTING.
- ALL DIMENSIONS IN MILLIMETRES.

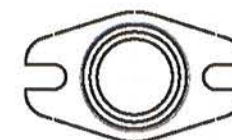
| MATERIALS LIST | | | | |
|----------------|-----------------------------------|-----------|------|---|
| ITEM | DESCRIPTION | STOCK No. | REQ. | COMMENTS |
| 1 | DN20 x 530 mm INLET RISER & VALVE | 4730-5012 | 1 | ZETCO BALL VALVE (SERIES 1250) LILAC HANDLE |
| 2 | TAIL PIECE UNION | 4730-9000 | 1 | |
| 3 | DN20 WATER METER | | 1 | LILAC |
| 4 | DN20 x 300 mm OUTLET RISER | 4730-1501 | 1 | PAINTED LILAC |
| 5 | DN20 x 300 mm INLET RISER | 4730-8000 | 1 | PAINTED LILAC |
| 6 | "LOOSE JUMPER" VALVE | 4820-0118 | 1 | MAINTENANCE ONLY USE - PAINTED LILAC |

| | | | | | | | | | | | | |
|----------------|----------|-----|--|-----|----------------------------|---------------------------|---------------------------------|-----------------------------|--|-----------------------------------|--|----------------------------------|
| REVISION PANEL | | | | | | DESIGN PANEL | | | <div><p>SA WATER STANDARD DRAWINGS WATER SUPPLY CONSTRUCTION MANUAL DN20 NON DRINKING WATER METER METER ASSEMBLIES ABOVE & BELOW GROUND</p></div> <div><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></div> | <div>A3</div> <div>SHT SIZE</div> | | <div>3</div> <div>REVISION</div> |
| REV | DATE | DRN | DETAILS | APR | CURRENT REV AUTHORISED: | DESIGNED: 28/09/15 RJP | AUTHORISED: 31/03/16 T.GALEK | TOTAL SHEETS: | | | | |
| | | | | | | DRAWN: 16/11/15 MS | SIGNATURE: | SUPERSEDES: 02-0072-01 (K2) | | | | |
| 3 | 22/03/17 | RP | STOCK NOS REVISED | | SIGNATURE: | REVIEWED: 21/03/16 TG | ORIGINAL SIGNED | DRAWING NUMBER | | | | |
| 2 | 28/11/16 | LS | ZETCO VALVE REPLACING LOOSE JUMPER VALVE | TG | | | | 4005-30008-09 | | | | |
| 1 | 31/03/16 | MS | 2016 STANDARDS REVIEW | TG | | | | PREFIX | NUMBER | SHEET | | |

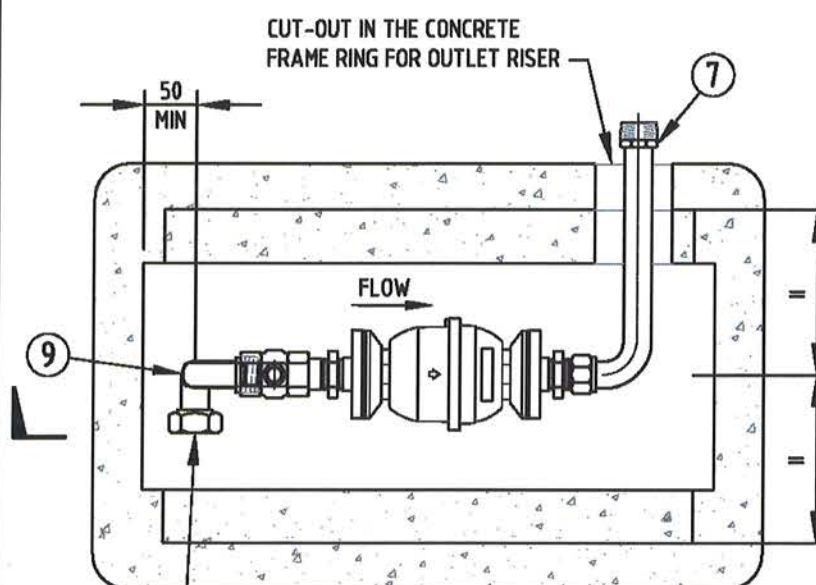


DN40 WATER METER ASSEMBLY
ABOVE GROUND

| MATERIALS LIST | | | | | |
|----------------|-------------------|-----------|------|----------------------------|--|
| ITEM | DESCRIPTION | STOCK No. | REQ. | COMMENTS | |
| 1 | INLET RISER | 4730-8003 | 1 | LENGTH 533mm PAINTED LILAC | |
| 2 | DN40 BALL VALVE | 4820-7002 | 1 | LILAC HANDLE | |
| 3 | 40mm NIPPLE | 4730-1394 | 2 | | |
| 4 | BRASS FLANGE | | 2 | SUPPLIED WITH METER | |
| 5 | WASHER INSERTION | | 2 | SUPPLIED WITH METER | |
| 6 | 40mm WATER METER | | 1 | LILAC | |
| 7 | DN40 OUTLET RISER | 4730-1429 | 1 | LENGTH 267mm PAINTED LILAC | |
| 8 | BOLTS | | 4 | | |
| 9 | INLET RISER | 4730-8004 | 1 | LENGTH 229mm PAINTED LILAC | |

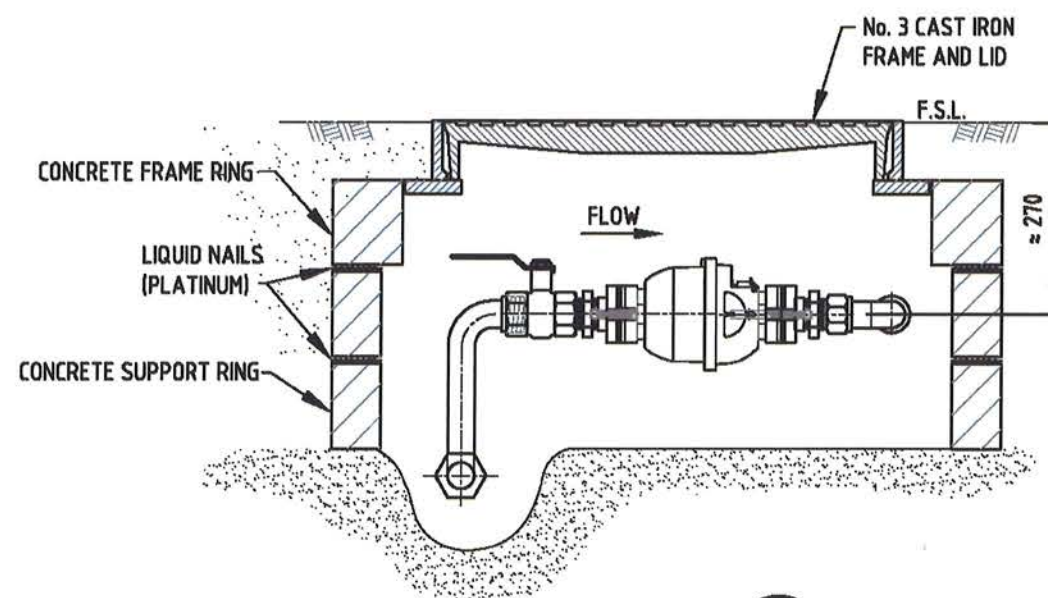


ITEM 4 - BRASS FLANGE



REFER 4005-30006-05
FOR WATER CONNECTION DETAILS.


PLAN
LID NOT SHOWN
NOT TO SCALE

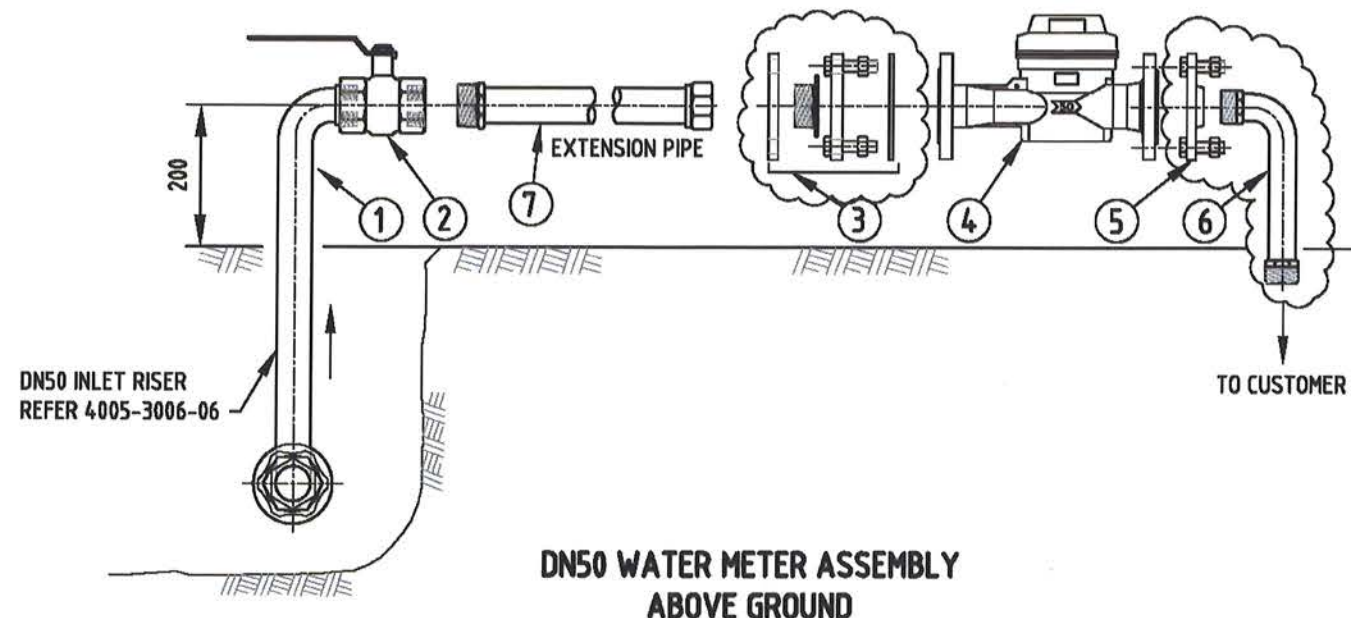


SECTION 1
DN40 WATER METER ASSEMBLY
IN No. 3 CAST IRON BOX

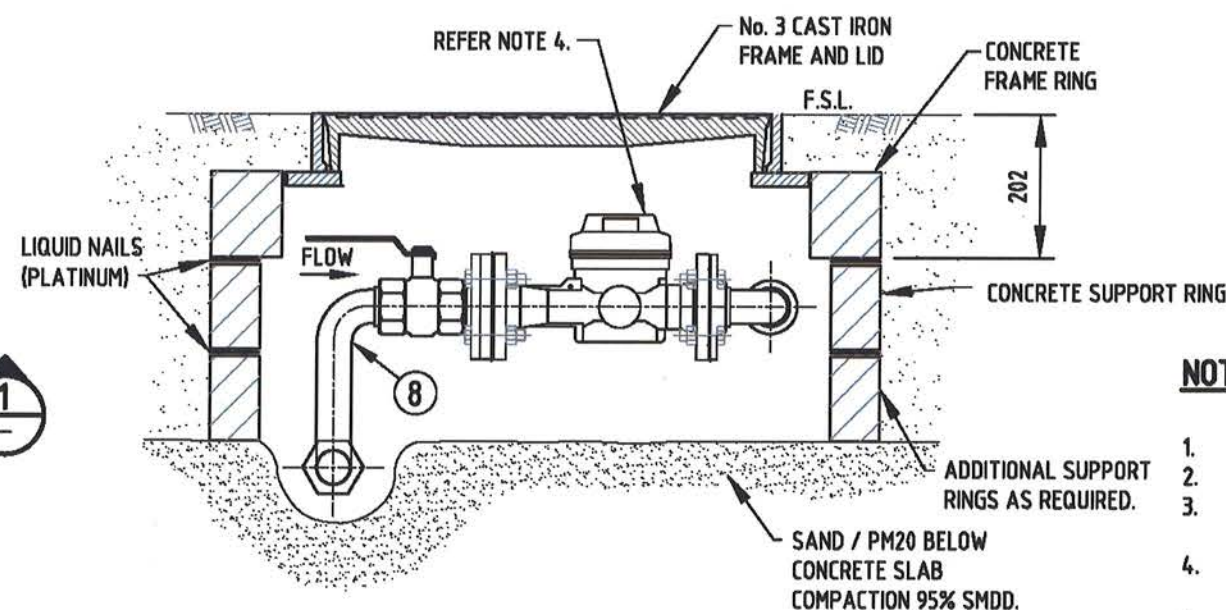
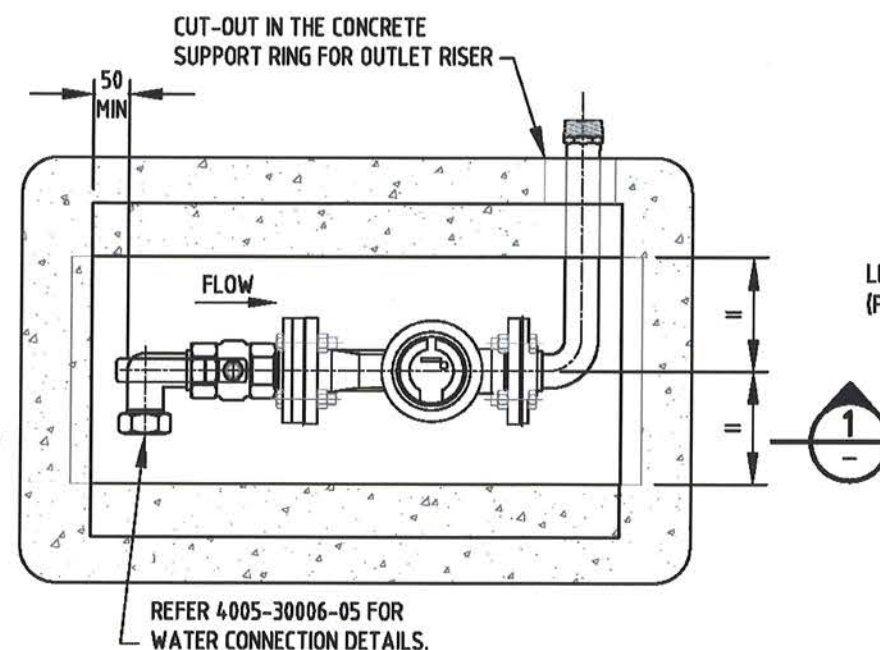
NOTES:

- ONLY ITEMS SPECIFIED IN THE MATERIALS LIST SHALL BE INSTALLED.
- REFER 4005-30002-01 & 4005-30002-02 FOR GENERAL NOTES.
- NON DRINKING WATER CONNECTIONS SHALL BE LAID IN ACCORDANCE WITH DRINKING WATER CONNECTIONS. REFER SECTION 6 DRAWINGS.
- ALL NON DRINKING PIPE FITTINGS, INLET/ OUTLET RISERS AND WATER METER SHALL BE PAINTED LILAC.
- WHERE THE PAINTED COMPONENTS HAVE BEEN DIMINISHED OR SCRATCHED DURING INSTALLATION, THE CONTRACTOR SHALL USED SPRAY PAINT TO TOUCH UP COMPONENTS TO THE SATISFACTION OF THE SA WATER REPRESENTATIVE.
REFER TS 0503, CLAUSE 15.1 FOR THE APPROVED PAINT.
- SAFETY NOTE:
SAFETY - ELECTRICAL EARTH: CONNECT JUMPER LEADS UPSTREAM & DOWNSTREAM OF METER FITTING BEFORE REMOVING METER.
- STOCK No. REFERS TO SA WATER STOCK NUMBER FOR THAT FITTING.
- ALL DIMENSIONS IN MILLIMETRES.

| | | | | | | | | | | | | | | |
|----------------|----------|-----|-----------------------|-----|--------------|--------------------|-----------------|---|----------------------------------|--|--------|-----------------|----------|--|
| REVISION PANEL | | | | | DESIGN PANEL | | | <div><p>SA Water</p></div> <div><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></div> | SA WATER STANDARD DRAWINGS | | | A3 | 2 | |
| REV | DATE | DRN | DETAILS | APR | CURRENT REV | DESIGNED: 01/08/16 | AUTHORISED: | | WATER SUPPLY CONSTRUCTION MANUAL | | | SHT SIZE | REVISION | |
| | | | | | | RJP | T.GALEK | | DN40 NON DRINKING WATER METER | | | TOTAL SHEETS: 1 | | |
| | | | | | | LJS | SIGNATURE: | | METER ASSEMBLIES | | | SUPERSEDES: | | |
| 2 | 22/03/17 | RP | STOCK NOS REVISED | | | | ORIGINAL SIGNED | | STANDARD INSTALLATION | | | DRAWING NUMBER | | |
| 1 | 01/08/16 | LJS | 2016 STANDARDS REVIEW | TG | TG | | | | | | | 4005-30008-11 | | |
| | | | | | | | | | | | PREFIX | NUMBER | SHEET | |



| MATERIALS LIST | | | | | |
|----------------|---|-----------|------|------------------------------------|--|
| ITEM | DESCRIPTION | STOCK No. | REQ. | COMMENTS | |
| 1 | DN50 INLET RISER | 4730-8005 | 1 | LENGTH 533 PAINTED LILAC | |
| 2 | DN50 BALL VALVE | 4820-7003 | 1 | LILAC HANDLE | |
| 3 | DN50 LOOSE RING JOINT FBE COATED FOR DN50 WATER METER | 6680-0683 | 1 | PAINTED LILAC | |
| 4 | DN50 WATER METER WITH FLANGED ENDS | | 1 | PAINTED LILAC | |
| 5 | SCREWED FLANGE FBE COATED 50 x 2" BSP | 4730-1224 | 1 | | |
| 6 | DN50 OUTLET RISER | 4730-1432 | 1 | LENGTH 267 PAINTED LILAC | |
| 7 | DN50 x 500 LONG EXTENSION PIPE 50 BSP SPIG x 50 BSP SOC | | 1 | FOR ABOVE GROUND INSTALLATION ONLY | |
| 8 | DN50 INLET RISER | 4730-8006 | 1 | LENGTH 229 PAINTED LILAC | |



SECTION 1

NOTES:

- ONLY ITEMS SPECIFIED IN THE MATERIALS LIST SHALL BE INSTALLED.
- REFER 4005-30002-01 & 4005-30002-02 FOR GENERAL NOTES.
- NON DRINKING WATER CONNECTIONS SHALL BE LAID IN ACCORDANCE WITH DRINKING WATER CONNECTIONS. REFER SECTION 6 DRAWINGS.
- ALL NON DRINKING PIPE FITTINGS, INLET/ OUTLET RISERS AND WATER METER SHALL BE PAINTED LILAC.
- WHERE THE PAINTED COMPONENTS HAVE BEEN DIMINISHED OR SCRATCHED DURING INSTALLATION, THE CONTRACTOR SHALL USED SPRAY PAINT TO TOUCH UP COMPONENTS TO THE SATISFACTION OF THE SA WATER REPRESENTATIVE.
REFER TS 0503, CLAUSE 15.1 FOR THE APPROVED PAINT.
- SAFETY NOTE:
SAFETY - ELECTRICAL EARTH: CONNECT JUMPER LEADS UPSTREAM & DOWNSTREAM OF METER FITTING BEFORE REMOVING METER.
- STOCK No. REFERS TO SA WATER STOCK NUMBER FOR THAT FITTING.
- ALL DIMENSIONS IN MILLIMETRES.

| REVISION PANEL | | | | | DESIGN PANEL | | SA Water | SA WATER STANDARD DRAWINGS | | A3 | 2 |
|----------------|----------|-----|--|-----|--------------|-------------|---|----------------------------------|--|---------------|----------|
| REV | DATE | DRN | DETAILS | APR | CURRENT REV | AUTHORISED: | | WATER SUPPLY CONSTRUCTION MANUAL | | SHT SIZE | REVISION |
| | | | | | | | | DN50 NON DRINKING WATER METER | | | |
| | | | | | | | | METER ASSEMBLIES | | | |
| | | | | | | | | STANDARD INSTALLATION | | | |
| 2 | 22/03/17 | RP | METER FLANGE CONNECTIONS & STOCK NOS CHANGED | | | | 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: 1 | | SUPERSEDES: | |
| 1 | 29/07/16 | LJS | 2016 STANDARDS REVIEW | TG | | | | DRAWING NUMBER | | 4005-30008-12 | |
| | | | | | | | | PREFIX | | NUMBER | |
| | | | | | | | | | | SHEET | |