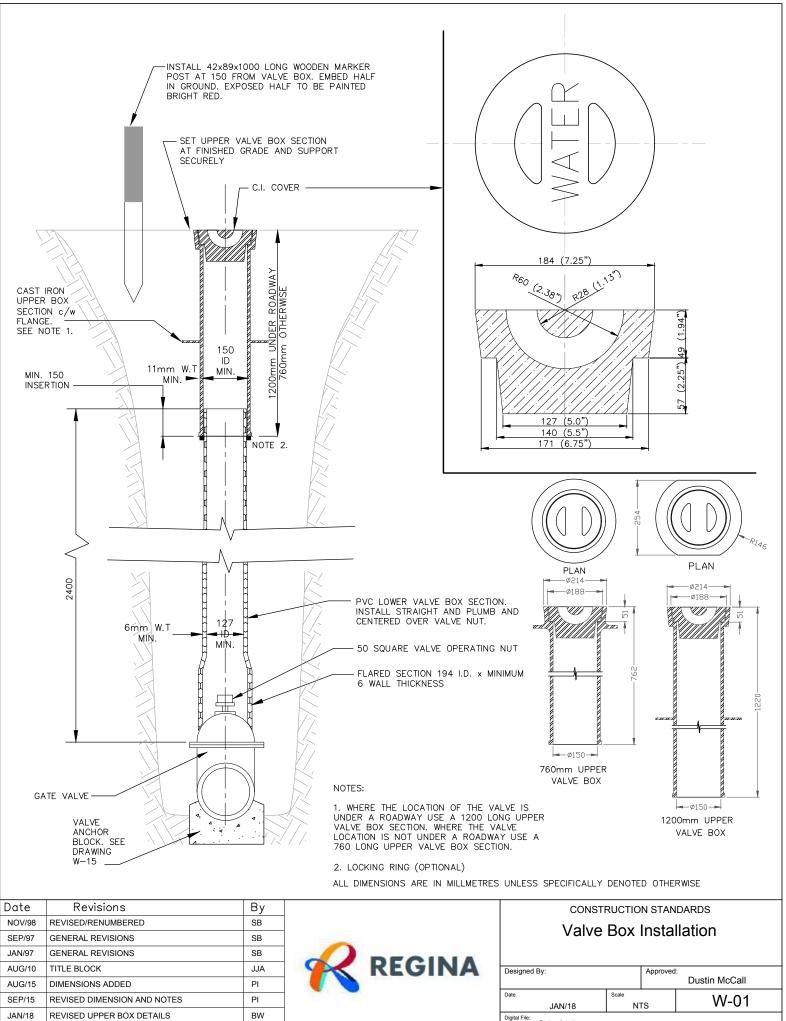
City of Regina Standard Construction Specifications

SECTION 15999 LIST OF WATER STANDARD DRAWINGS

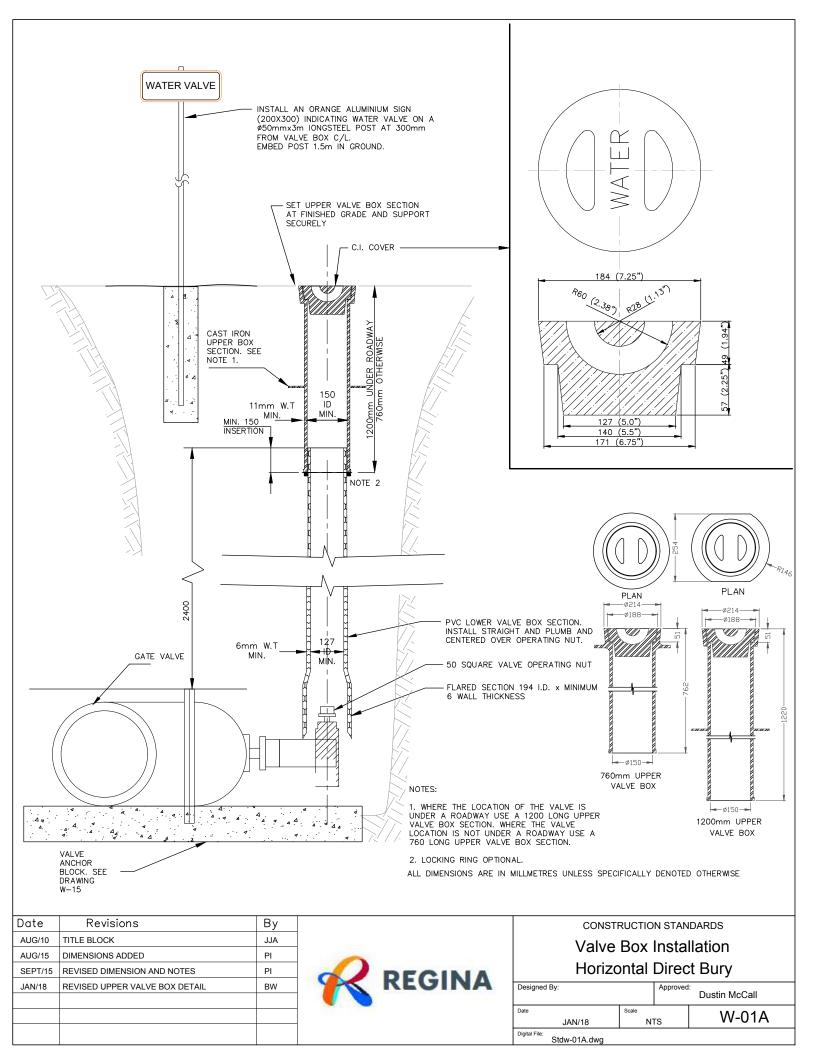
| W-01 | Valve Box Installation | Jan/18 |
|-------------|--|--------|
| W-01A | Valve Box Installation – Horizontal Direct Bury | Jan/18 |
| W-02 | Hydrant Installation | Aug/10 |
| W-02A | Hydrant Installation in Narrow Streets | Aug/10 |
| W-03 | Support of Mains over Uncompacted Areas | Aug/10 |
| W-04 | Watermain Trench Excavation and Backfill Details | Aug/10 |
| W-05 | Gate Valve Manhole | Aug/10 |
| W-06 | Detail for Watermain Crossing Beneath Sewer Main | Aug/10 |
| W-07 | 75mm Irrigation Meter – Kiosk and Equipment Installation | Aug/10 |
| W-07 (det) | Details 75mm Irrigation Meter – Kiosk and Equipment Installation Details | Aug/10 |
| W-07A | 100 mm Irrigation Service - Kiosk and Equipment Installation Details (without Booster Pump) | Feb/16 |
| W-07A2 | 100 mm Irrigation Metre - Kiosk and Equipment Installation Details (without Booster Pump) | Feb/16 |
| W-08 | Winter Service Hydrant Type Irrigation Outlet | Aug/10 |
| W-09 | 50 mm Above Grade Irrigation Kiosks Site Plan and Base Details | Aug/16 |
| W-09A | 100 mm Above Grade Irrigation Kiosks Site Plan and Base Details | Aug/16 |
| W-10 | No Drawing | Jan/17 |
| W-10A | 50 mm Irrigation Service - Kiosk and Equipment Installation Details (without Booster Pump) | Aug/16 |
| W-10A2 | 50 mm Irrigation Service - Kiosk and Equipment Installation Details (without Booster Pump) | Aug/16 |
| W-10B | 50 mm Irrigation Service - Kiosk and Equipment Installation Details (with Booster Pump) | Aug/16 |
| W-10B2 | 50 mm Irrigation Service - Kiosk and Equipment Installation Details (with Booster Pump) | Aug/16 |
| W-11 | 100 mm Irrigation Service - Kiosk and Equipment Installation Details (with Booster Pump) | Aug/16 |
| W-11A | 100 mm Irrigation Service - Kiosk and Equipment Installation Details (with Booster Pump) | Aug/16 |
| W-12 | Detail for Dead-end Watermain Flushout | Aug/10 |
| W-13 | Thrust Blocks | Aug/10 |
| W-14 | Mechanical Thrust Restraints | Aug/10 |

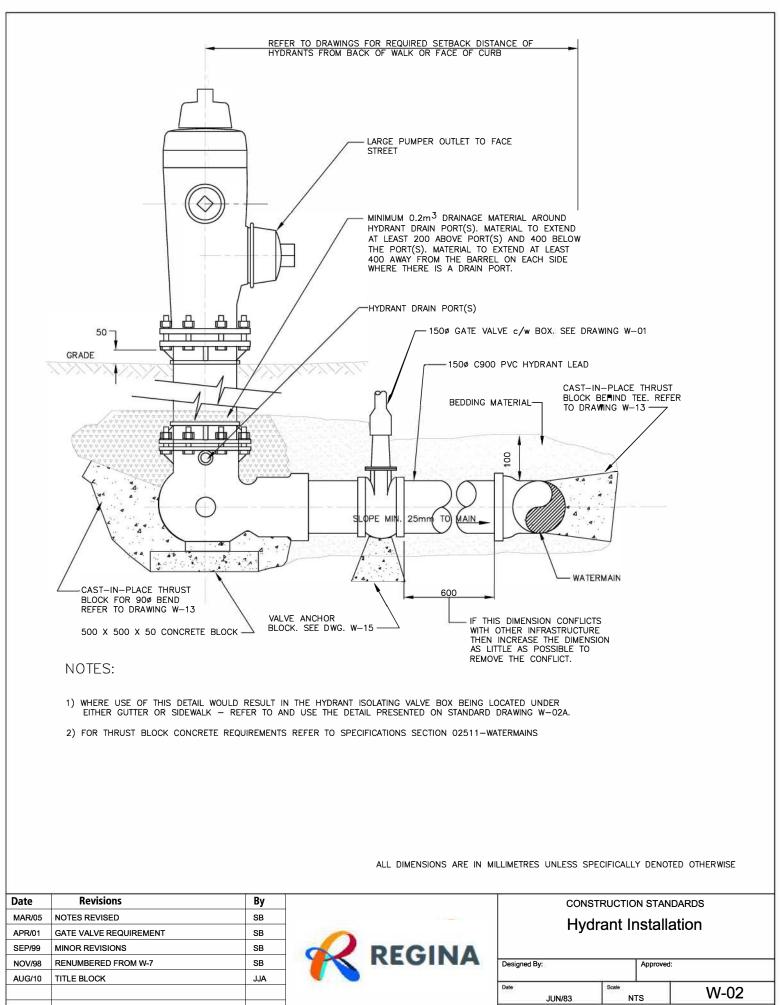
City of Regina Standard Construction Specifications

| W-15 | Valve Anchoring | Aug/10 |
|-------------|---|--------|
| W-16A (100) | Details of 100mm Water Service Extensions to Irrigation Kiosks | Sep/15 |
| W-16B (50) | Details of 50mm Water Service Extensions to Irrigation Kiosks | Sep/15 |
| W-17 | Water Service Connection – 50mm and Smaller Services | Aug/10 |
| W-18 | Water Service Curb Box – 50mm and Smaller Services | Jan/18 |
| W-19 | Multiple Service and Dead-end Watermain Connections | Aug/10 |
| W-20 | No Drawing | |
| W-21 | No Drawing | |
| W-22 | No Drawing | |
| W-23 | Blowoff from Steel Pipeline | Aug/10 |
| W-24 | Drain/Blowoff Connection from Non-Steel Pipelines | Aug/10 |
| W-25 | Cathodic Protection of Cast Iron Fittings | Aug/10 |
| W-26 | Cathodic Protection of Gate Valves | Aug/10 |
| W-27 | Cathodic Protection of Hydrant Using Eyelet Connection | Aug/10 |
| W-28 | Cathodic Protection of Hydrant Using Cadweld Connection | Aug/10 |
| W-29 | Typical Cadweld Description and Details | Aug/10 |
| W-30 | Water Meter/Backflow Preventer Installation Requirements for | Apr/24 |
| W-31 | Multi-Metered Locations (Alternative 1) Water Meter/Backflow Preventer Installation Requirements | Apr/24 |
| W-32 | forMulti-Metered Locations (Alternative 2) Water Meter Installation for 40mm or 50mm Domestic Supply Pipe Sizes | Apr/24 |
| W-33 | Water Meter Installation for 75mm or 100mm Domestic Supply Pipe Sizes | Apr/24 |
| W-34 | Installation Requirements for Summer Service Irrigation Meters | Apr/24 |
| W-35 | Removed | Apr/17 |
| W-36 | Steel Watermain Hot Tap Connections | Aug/10 |
| W-37 | Residential Water Meter Installation | Apr/24 |
| W-38 | Temporary Crossing over Critical Infrastructure | Jan/18 |

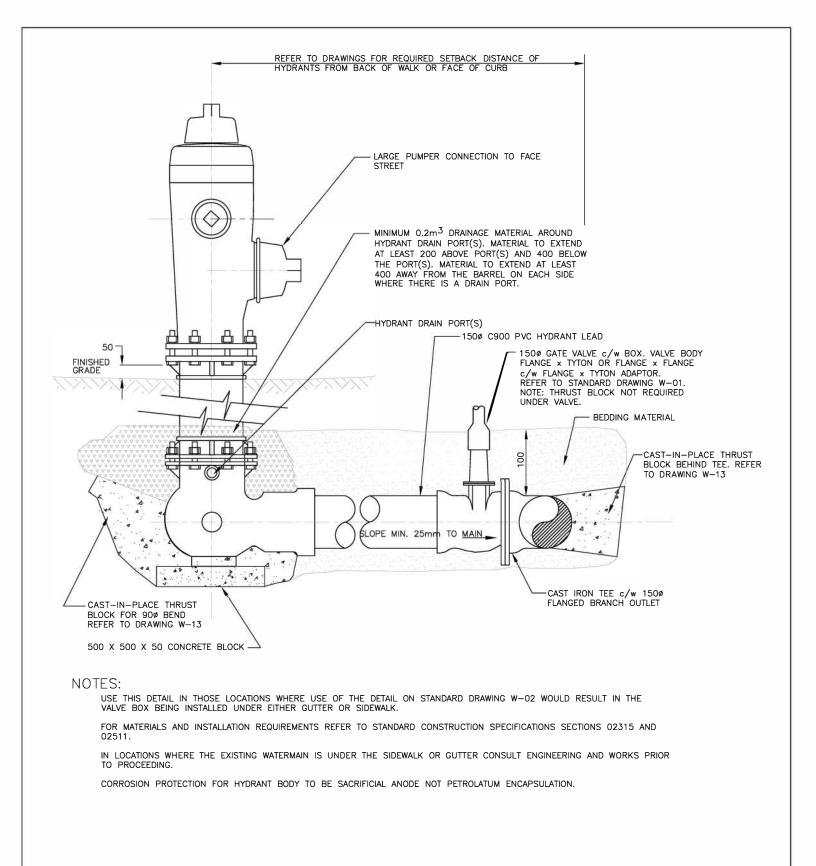


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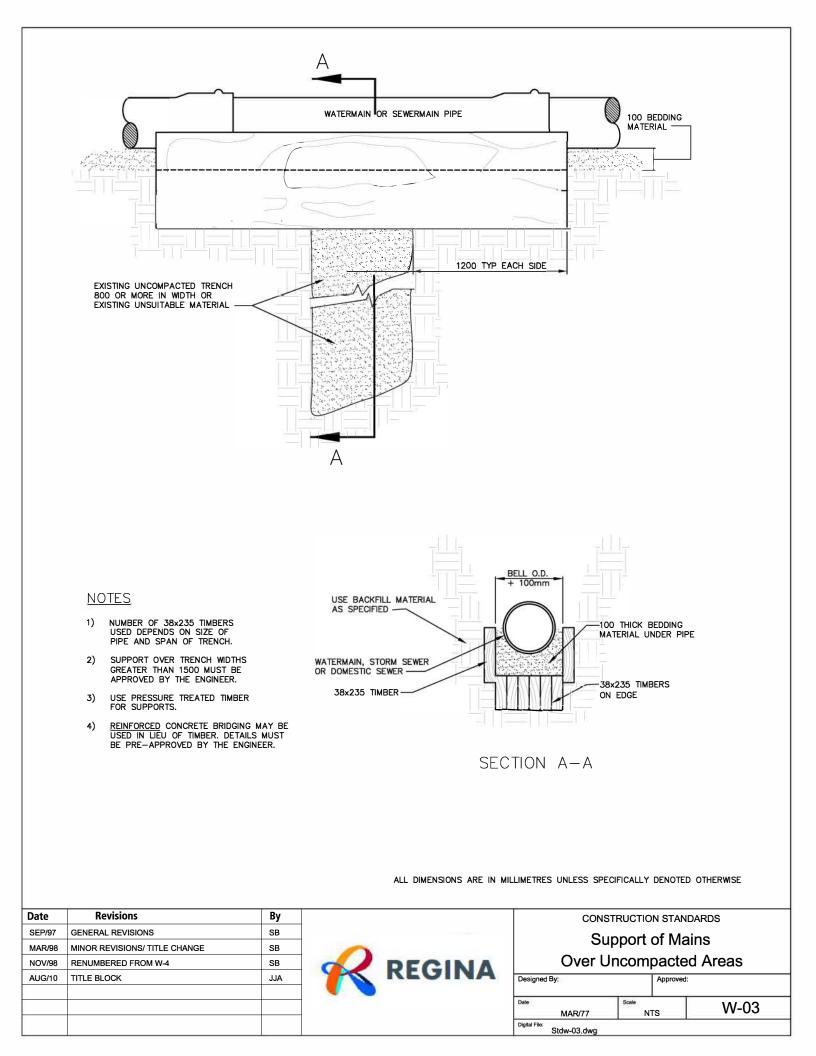


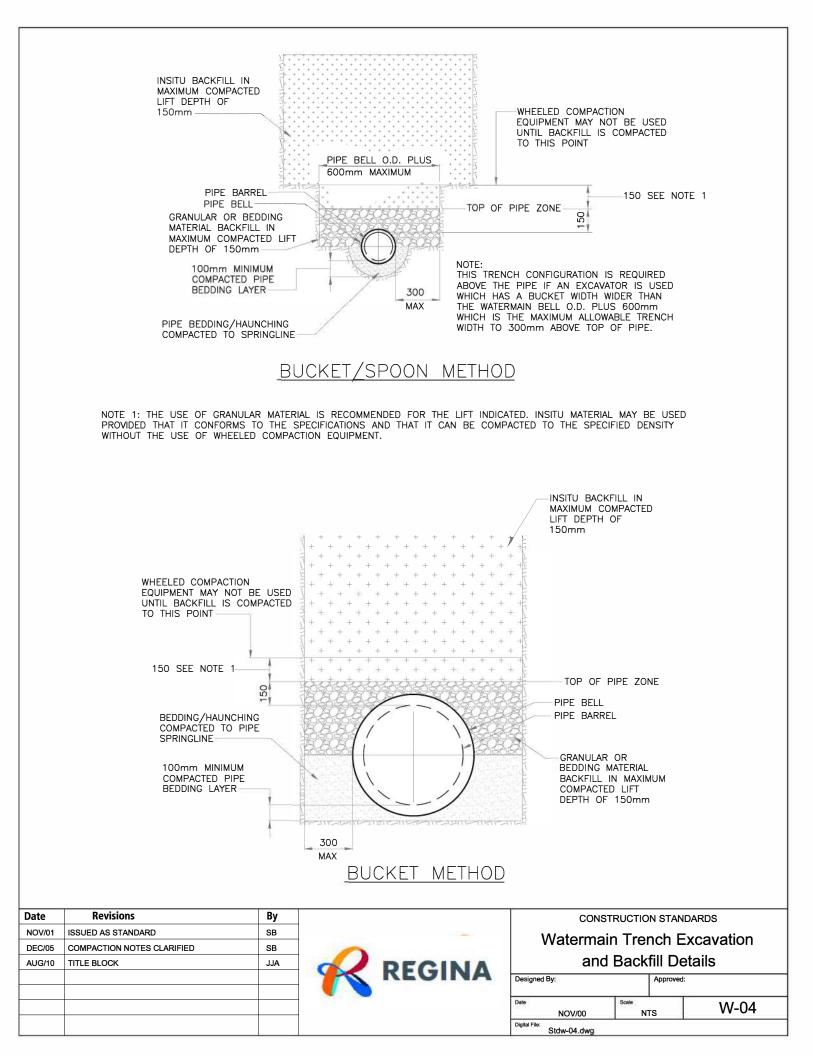
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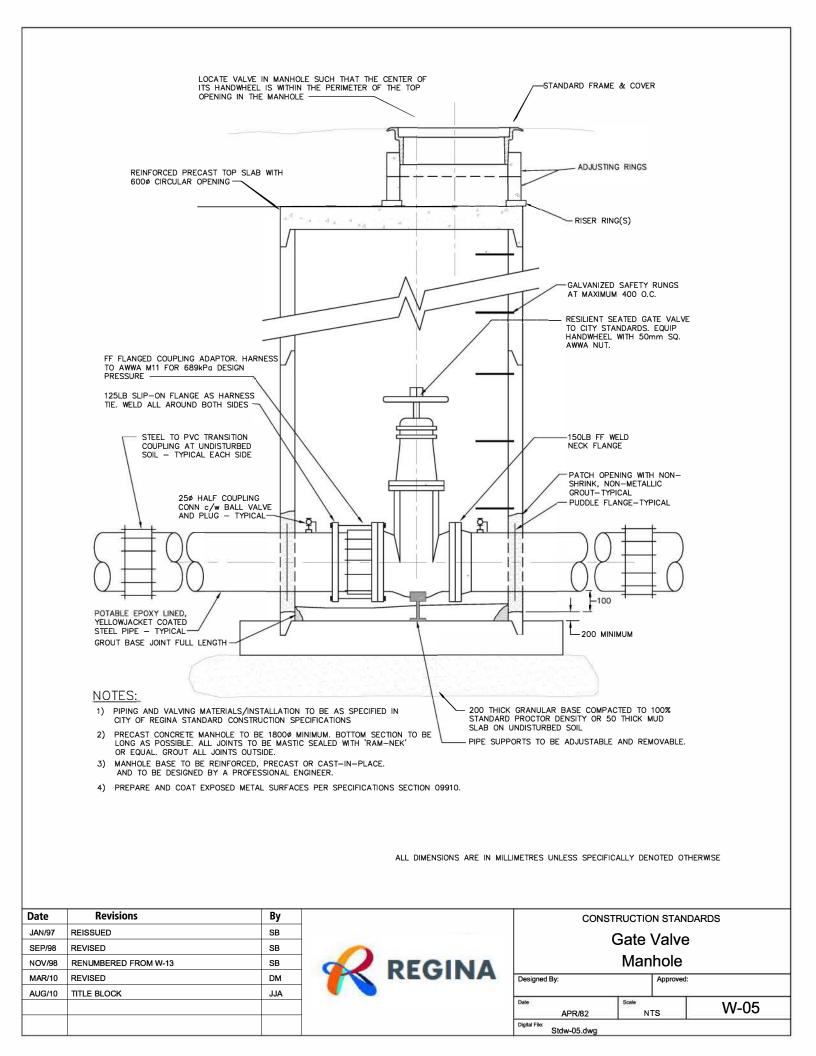


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| | | | · · · · · · · · · · · · · · · · · · · | 12 | | | | | | |
|--------|--------------------------|-----|---------------------------------------|-------------------------------|------------------------|-------|--|--|--|--|
| Date | Revisions | Ву | | CONSTRUCTION STANDARDS | | | | | | |
| FEB/05 | NEW NARROW STREET OPTION | SB | Hydrant Installation | | | | | | | |
| JUL/04 | GATE VALVE MOVED TO TEE | SB | 0 | | | | | | | |
| APR/01 | GATE VALVE REQUIREMENT | SB | DECINIA | in in | in Narrow Streets | | | | | |
| SEP/99 | MINOR REVISIONS | SB | KEGINA | Designed By; | Designed By: Approved: | | | | | |
| NOV/98 | RENUMBERED FROM W-7 | SB | | - | | | | | | |
| AUG/10 | G/10 TITLE BLOCK | JJA | | Date FEB/05 | Scale NTS | W-02A | | | | |
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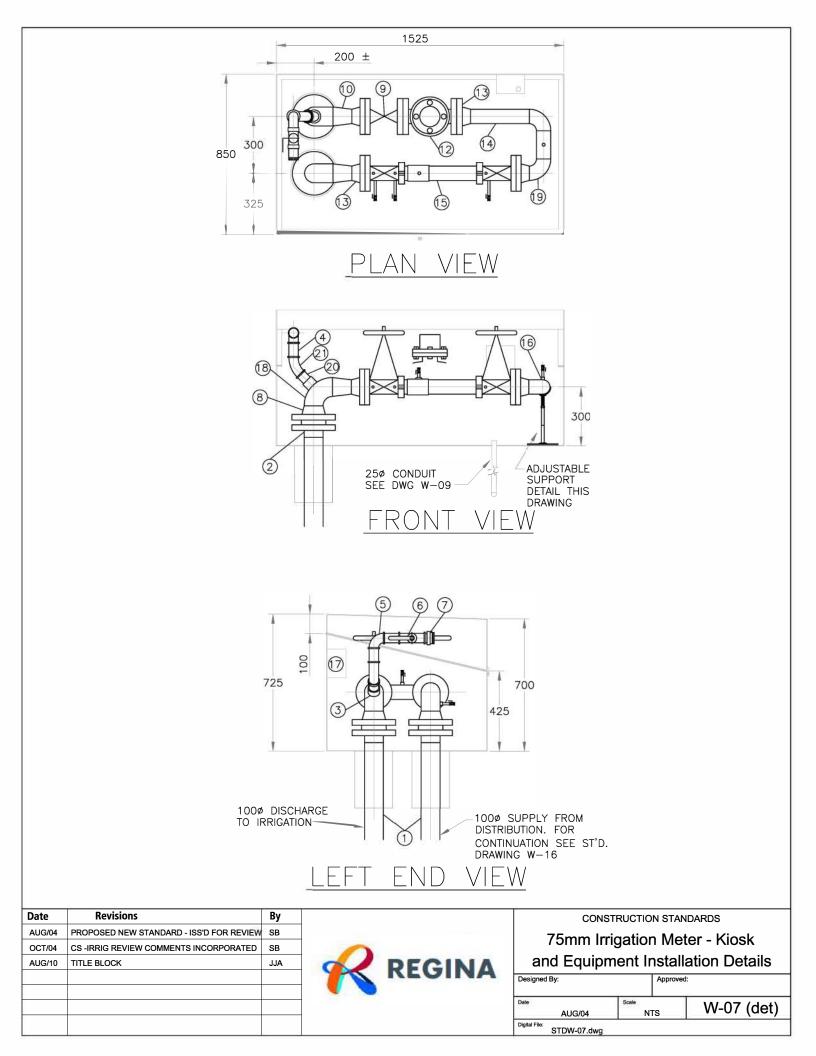




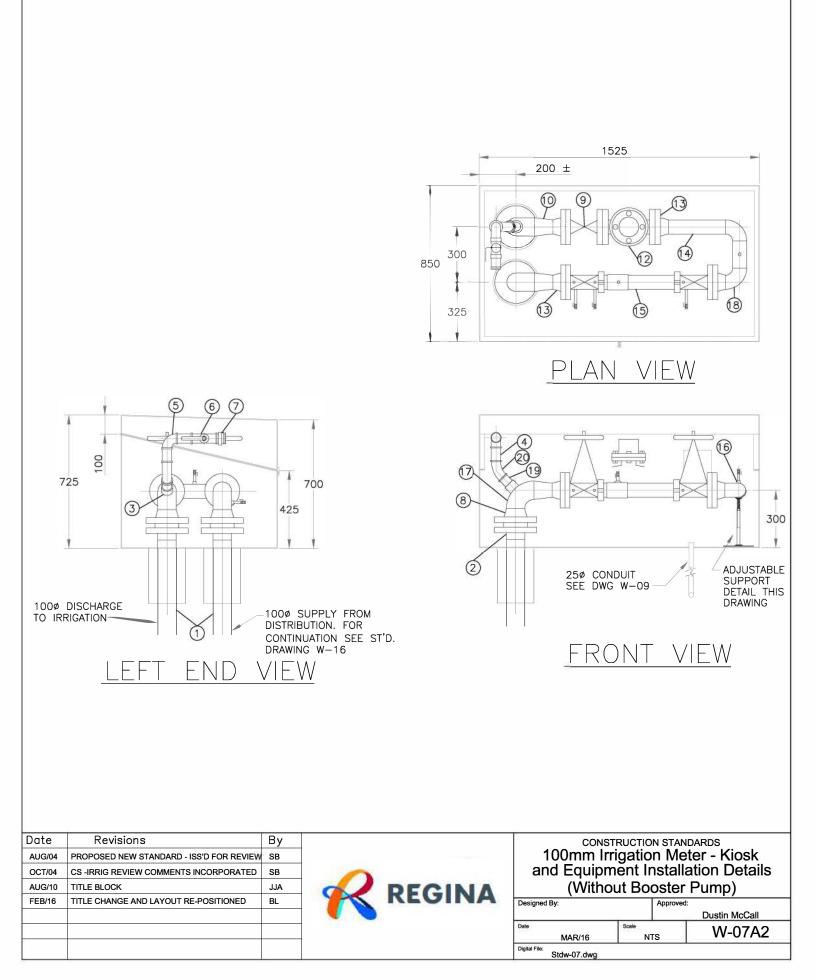
| | | | FOR SEWER TRENCH WIDTH REQUIREMENTS REFER TO STANDARD DRAWINGS S-20 A S-21. | ND | | |
|--------|--|----------------------|---|--|---------------------------------------|------|
| | | | - I I I I I I I I I I I I I I I I I I I | FOR WATERI TRENCH WIL REQUIREMEN REFER TO STANDARD I W-04 | DTH NTS DRAWING ME TO BE | |
| | NEAREST ALLOWABLE LOCATION OF ANY JOINT IN OR CONNECTION TO THE 500 M WATERMAIN PIPE | | | LIMIT OF VOLUME TO LED ONLY WITH 'FILLCR FOR WAT TRENCH REFER T STANDAR W-04 | RETE' TERMAIN BACKFILL MENTS | |
| | | CEEPELL & | SECTION VIEW | C 49 C 49 BC 49 BC | | |
| | -ALL LOCATIONS WHERE | E NEW SA | HE FOLLOWING INSTANCES WHERE THE OPEN C INITARY SEWERMAIN IS INSTALLED OVER EITHER ATERMAIN IS INSTALLED UNDER EITHER EXISTING | NEW OR EXISTING WAT | FERMAIN. | |
| | EXPANDED FROM THAT SHO NOTE 3: | WN ON T | GINEER, SOIL CONDITIONS DICTATE THAT THE AI HIS DRAWING THEN THE FIELD DIRECTED EXTEN | T OF FILL WILL BE RE | | BE |
| | NOTE 4: MAXIMUM DEPTH OF 'FILLCF | RETE' THA THEN TH | DURING EITHER EXCAVATION OR 'FILLCRETE' IN T MAY BE INSTALLED IN ANY SINGLE POUR IS E INITIAL DEPTH MUST BE CURED TO THE SATI OF IT. | 1.0 METRE. IF MORE T | | : |
| | NOTE 6: | | AND SEWER SERVICES SUCH THAT THE WATER | | ., | |
| Date | Revisions | Ву | 1 | CONOT | | |
| SEP/04 | DRAFT NEW STANDARD FOR REVIEW | SB | | | | |
| FEB/05 | REVISED, NEW STANDARD ADOPTED | SB | 0 | Detail for V | | - |
| AUG/10 | TITLE BLOCK | JJA | K REGINA | Benea | ath Sewer | Main |
| | | | | Designed By: | Approved: | |
| | | | | Date 02/05 | Scale NTS | W-06 |

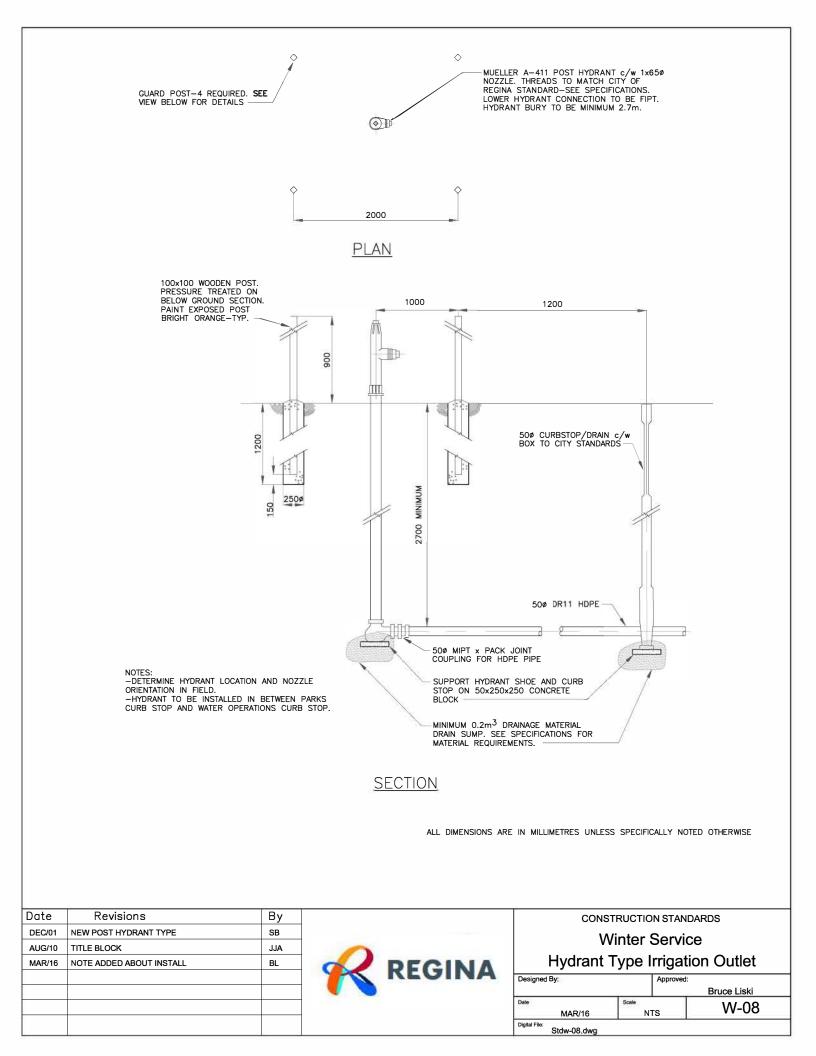
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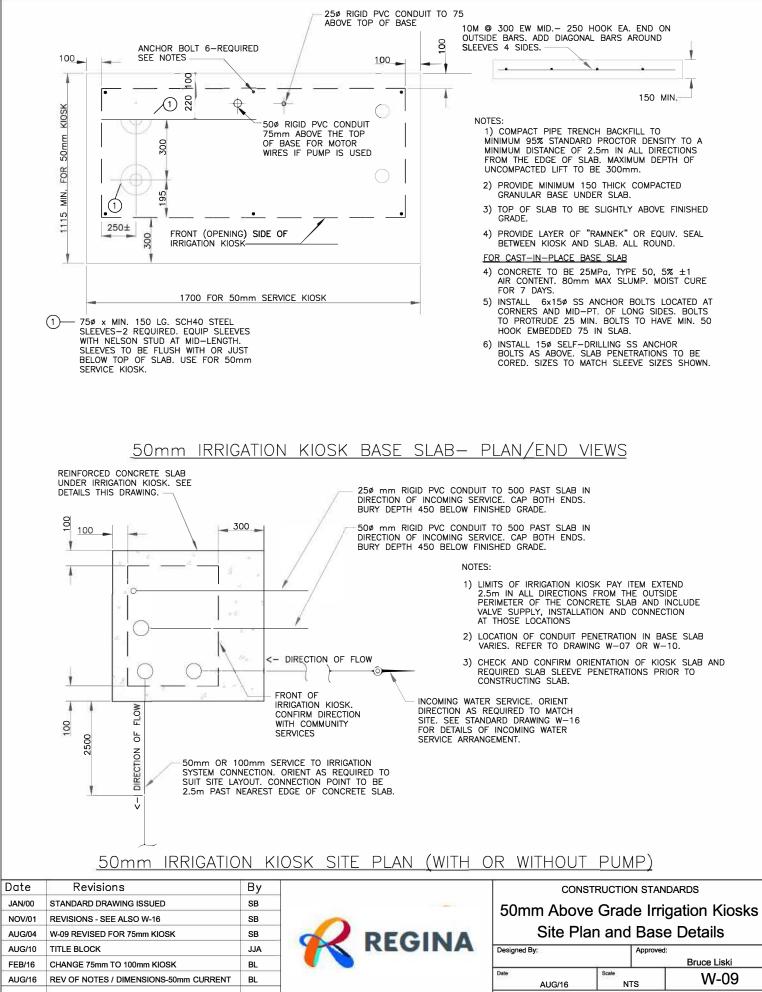
| └ F0 | 100mm HDPE DR11 RISER FOR SUPPLY AN R CONTINUATION REFER TO STANDARD DRAW -09/W-16 AND SITE PLAN. | | Ξ | GA FR | ELD LENGTH OF 1/4" ALVANIZED CHAIN INSIDE ROM BODY TO LID EA END. HAIN LENGTH TO ALLOW LID |
|--------------|--|--------------|---|---------------------------|---|
| BA | 100mm HDPE STUB END AND BACKING FLA CKING FLANGES TO BE EPOXY COATED DUC QUIRED. | | | т | ERTICAL. |
| ~ | 50mm x 2000LB HALF COUPLING | | 1 | | 3 LOCATIONS EACH LID. |
| (4) - | 50mm x 75 LONG SHORT NIPPLE NPT BOT | H ENDS | | | 'CANAROPA' MARFBP70 MILD STEEL WITH FIXED BRASS PIN OR |
| (5) - | 50mm x 300LB 90° M.I. THREAD ELL. | | | | AS APPROVED. |
| 6 - | 50mm x 400 LB WOG BRONZE BALL VALVE | . NPT ENDS. | 6 . | | |
| 7- | 50mm MALE NPT x 'GRUVLOK' ADAPTOR. | | | | |
| 8- | 100mm x 150LB FF WN FLANGE-2 REQUIR | ED | | | |
| RE | - 75mm x 125LB CAST IRON BODY, FLANG SILIENT SEATED GATE VALVE TO AWWA C509 QUIRED. | | > | FLANGE | ROLLED INSIDE AROUND BOTH LID FRONT AND |
| Š | 100mm x 75 WELD REDUCER – TWO REQU NOT USED | JIRED. | | | |
| | 75mm FLOWMETER/MASTER VALVE ASSEMBL | Y AS | | | |
| | ECIFIED. 75mm x 150LB FF WN FLANGE - THREE F | | | | |
| \circ | | | | | |
| (14) – 31 | 75ø PIPE SPOOL PIECE. OVERALL LENGTH A 5mm. FIELD CONFIRM. | APPROX. | \ll | 1 | |
| PR | 750 WATTS MODEL 757 DOUBLE CHECK ST EVENTOR ASSEMBLY c/w NON-RISING STEM DLATING VALVES. | | N | | |
| 16 - | 15¢ × 2000LB HALF COUPLING CONNECTION | N c/w 15ø x | | | |
| \sim | 0 LB WOG BRONZE BALL VALVE. | | 89mm CHROMED CHES HANDLES (2)-RIVET O | | |
| c/ KN | 150 x 150 x 100 EEMAC 1 ELECTRICAL JU w HINGED FRONT AND MIN. 2 X 250 CONDI OCKOUTS. BEL EUK0664 OR EQUAL. SPOT N D FINISH SAME AS KIOSK. | JIT | TAMPER PRÓOF BOLT NY LID. 'ONWARD' MODEL 151X-V OR AS | | |
| 18 - | 100ø SHORT RADIUS 90° WELD ELLS - 2 | REQUIRED | APPROVED. | | |
| (19 – | 75ø SHORT RADIUS 90° WELD ELLS - 2 R | EQUIRED | | | |
| @- | 50mm x 65 LONG SHORT NIPPLE | | T LOCK ARRANGEMENT U | | |
| 21 - | 50mm x 45° THREAD ELL | | E. NOTCH CENTRE (LID) (HOLES, SIZED TO EASILY | | DY TO BE OPEN BOTTOM |
| | | CITY LOCK, | IN BODY CATCHES. BENI HES AS SHOWN TO ACT | D WITH | H 25 WIDE ROLLED DE FLANGE ALL ROUND |
| | | GUIDE FOR | | BOT | TOM. DRILL HOLES FOR CHORS PER DWG W-09 |
| | PADLOC | K SUPPLIED | BY | ANC | HURS PER DWG W-U9 |
| | CITY OF | REGINA | | | |
| | | | | | Δ |
| NOTES: | | | | | 4mm PLATE x 50 WIDE. |
| | RUCT KIOSK WITH 14 GA. STEEL PLATE. ALI | | | | PLATE. RADIUS TO FIT O.D. OF PIPE TO BE |
| |) SMOOTH. DEGREASE, BLAST TO SSPC—SP6 WITH TWO COATS OF MARINE ENAMEL—COLOI | | | WELD ROD TO P | SUPPORTED. |
| | SNAL GREEN) | | | ALL ROUND | 150 THREADED STEEL ROD × MIN. 150 LG. |
| | F KIOSK ON PRECAST OR CAST-IN-PLACE S OR SLAB DETAILS. | LAB. REFER 1 | TO STANDARD DRAWING | GRIND PIPE END | 15ø GRADE B8 NUT. THREAD TO MATCH ROD THREAD. |
| | AND FITTINGS 75mm AND LARGER TO BE ST ALLER TO BE SCH80. STEEL. | ANDARD WT. | STEEL. PIPING 50mm | | |
| WHERE | DE A MINIMUM OF 1 REMOVABLE/ADJUSTABL INDICATED. CLEAN, PRIME AND PAINT SUPPO | | | WELD PIPE TO ALL ROUND | D PLATE 20Ø SCH 40 STEEL PIPE. TOP AT 75mm BELOW BOTTOM OF PIPE TO BE SUPPORTED |
| ENAMEL | | | | | |
| | NSIONS OF KIOSK ARE BASED ON USE OF I DW PREVENTER INDICATED IN NOTES. | NON-RISING S | STEM GATE VALVES AND | | Amm X 150 SQ. PLATE |
| | | | | JUTTU | DRT DET. |
| | | | | | |
| | | | | | |
| Date | Revisions | Ву | | | |
| AUG/04 | PROPOSED NEW STANDARD - ISS'D FOR REVIEW | | | | CONSTRUCTION STANDARDS |
| OCT/04 | CS -IRRIG REVIEW COMMENTS INCORPORATED | SB | - | | 75mm Irrigation Meter - Kiosk |
| AUG/10 | TITLE BLOCK | JJA | | GINA | and Equipment Installation Details |
| | | | KEI | ANII | Designed By; Approved: |
| | | | | | Date Scale NV OT |
| | | | | | AUG/04 NTS W-07 |
| | | | | | Digital File: |



| 1 – 100mm HDPE DR11 RISER FOR SUPPLY AND DISCHARGE FOR CONTINUATION REFER TO STANDARD DRAWINGS W-09/W-16 AND SITE PLAN. | WELD LENGTH OF 1/4" GALVANIZED CHAIN INSIDE FROM BODY TO LID EA END. CHAIN LENGTH TO ALLOW LID |
|---|---|
| 2 – 100mm HDPE STUB END AND BACKING FLANGE ASSEMBLY. BACKING FLANGES TO BE EPOXY COATED DUCTILE IRON – 2 REQUIRED. | VERTICAL. |
| 3 - 50mm x 2000LB HALF COUPLING | 3 LOCATIONS EACH LID. |
| (4) - 50mm x 75 LONG SHORT NIPPLE NPT BOTH ENDS | CANAROPA' MARFBP70 MILD STEEL WITH FIXED BRASS PIN OR |
| (5) – 50mm x 300LB 90° M.I. THREAD ELL. | AS APPROVED. |
| 6 - 50mm x 400 LB WOG BRONZE BALL VALVE. NPT ENDS. | |
| 7 – 50mm MALE NPT x 'GRUVLOK' ADAPTOR. | |
| 8 - 100mm x 150LB FF WN FLANGE-2 REQUIRED | EEP ROLLED INSIDE |
| (9) – 75mm x 125LB CAST IRON BODY, FLANGED END | SE AROUND BOTH LID BOX FRONT AND |
| 10 - 100mm x 75 WELD REDUCER - TWO REQUIRED. 1 - NOT USED | |
| 1 – 75mm FLOWMETER/MASTER VALVE ASSEMBLY AS SPECIFIED. | |
| 3 - 75mm x 150LB FF WN FLANGE - THREE REQUIRED | |
| (4) − 75ø PIPE SPOOL PIECE. OVERALL LENGTH APPROX. 315mm. FIELD CONFIRM. | |
| (5) - 75ø WATTS MODEL 757 DOUBLE CHECK STYLE BACKFLOW PREVENTOR ASSEMBLY c/w NON-RISING STEM GATE STYLE ISOLATING VALVES. | |
| 16 - 15ø x 2000LB HALF COUPLING CONNECTION c/w 15ø x 400 LB WOG BRONZE BALL VALVE. 89mm CHROMED CHEST | |
| 0 - 100Ø SHORT RADIUS 90' WELD ELLS - 2 REQUIRED HANDLES (2)-RIVET OR TAMPER PROOF BOLT TO | |
| B – 75¢ SHORT RADIUS 90° WELD ELLS – 2 REQUIRED LID. 'ONWARD' MODEL | |
| (19) – 50mm x 65 LONG SHORT NIPPLE APPROVED. | |
| (29 – 50mm x 45° THREAD ELL | |
| DUAL EYELET LOCK ARRANGEMENT USING | |
| 6mm PLATE. NOTCH CENTRE (LID) CATCH AND DRILL HOLES, SIZED TO EASILY PASS | BODY TO BE OPEN BOTTOM |
| CITY LOCK, IN BODY CATCHES. BEND | WITH 25 WIDE ROLLED |
| GUIDE FOR LID CATCH. | ANCHORS PER DWG W-09 |
| PADLOCK SUPPLIED BY | |
| | |
| | |
| NOTES: | 4mm PLATE x 50 WIDE. PLATE. RADIUS TO FIT O.D. |
| -CONSTRUCT KIOSK WITH 14 GA. STEEL PLATE. ALL WELDS TO BE FULL LENGTH AND | OF PIPE TO BE SUPPORTED. |
| GROUND SMOOTH. DEGREASE, BLAST TO SSPC-SP6 INSIDE AND OUT, PRIME AND FINISH WITH TWO COATS OF MARINE ENAMEL-COLOUR CGSB 503-127 (GP INDUSTRIAL WELD ROD TO | |
| 214 SIGNAL GREEN) ALL ROUND- | ROD × MIN. 150 LG. |
| -MOUNT KIOSK ON PRECAST OR CAST-IN-PLACE SLAB. REFER TO STANDARD DRAWING W-09 FOR SLAB DETAILS. GRIND PIPE I SMOOTH | END 15¢ GRADE B8 NUT. THREAD TO MATCH ROD THREAD. |
| -PIPE AND FITTINGS 75mm AND LARGER TO BE STANDARD WT. STEEL. PIPING 50mm AND SMALLER TO BE SCH40. STEEL. | E TO DIATE 200 SCH 40 STEEL PIPE. |
| WHERE INDICATED. CLEAN, PRIME AND PAINT SUPPORT WITH TWO COATS OF MARINE | |
| ENAMEL. | |
| BACKFLOW PREVENTER INDICATED IN NOTES. | |
| <u>SUPF</u> | ORI DEL. |
| | |
| | |
| Date Revisions By | CONSTRUCTION STANDARDS |
| AUG/04 PROPOSED NEW STANDARD - ISS'D FOR REVIEW SB | 100mm Irrigation Service - Kiosk |
| OCT/04 CS -IRRIG REVIEW COMMENTS INCORPORATED SB | and Equipment Installation Details |
| AUG/10 TITLE BLOCK JJA FEB/16 TITLE CHANGE AND REMOVE JUNCTION BOX BL | (Without Booster Pump) |
| FEB/16 TITLE CHANGE AND REMOVE JUNCTION BOX BL | Designed By: Approved: |
| | Date Scale W-07A |
| | FEB/16 NTS VV-07A |
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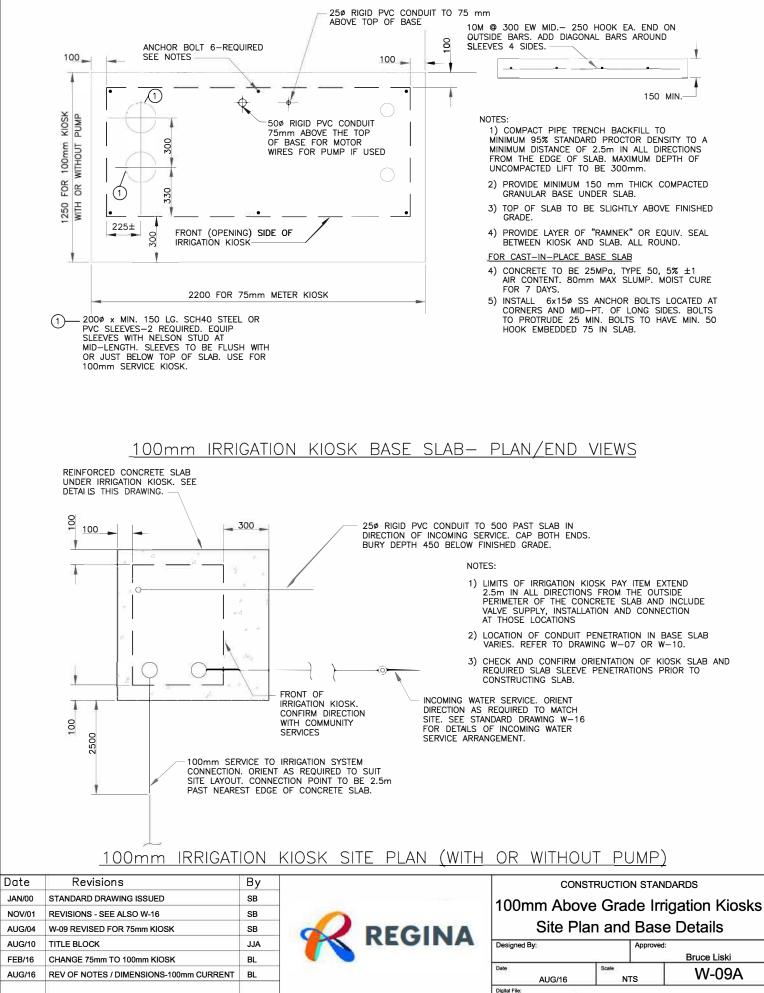






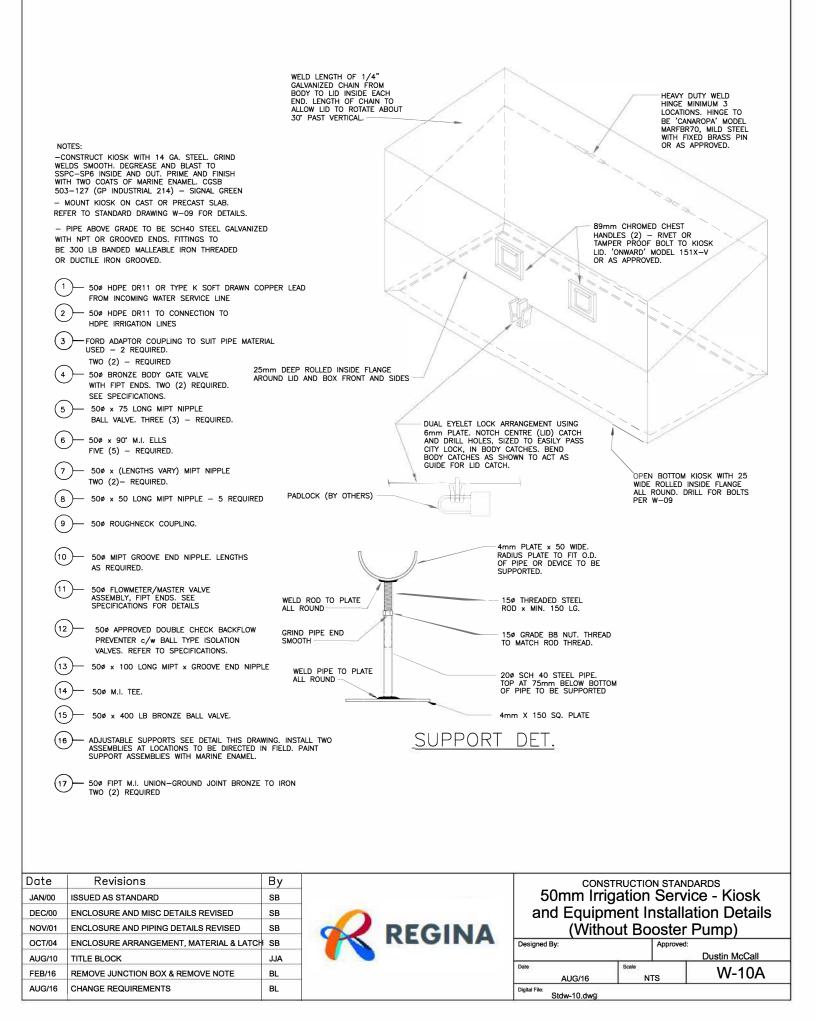
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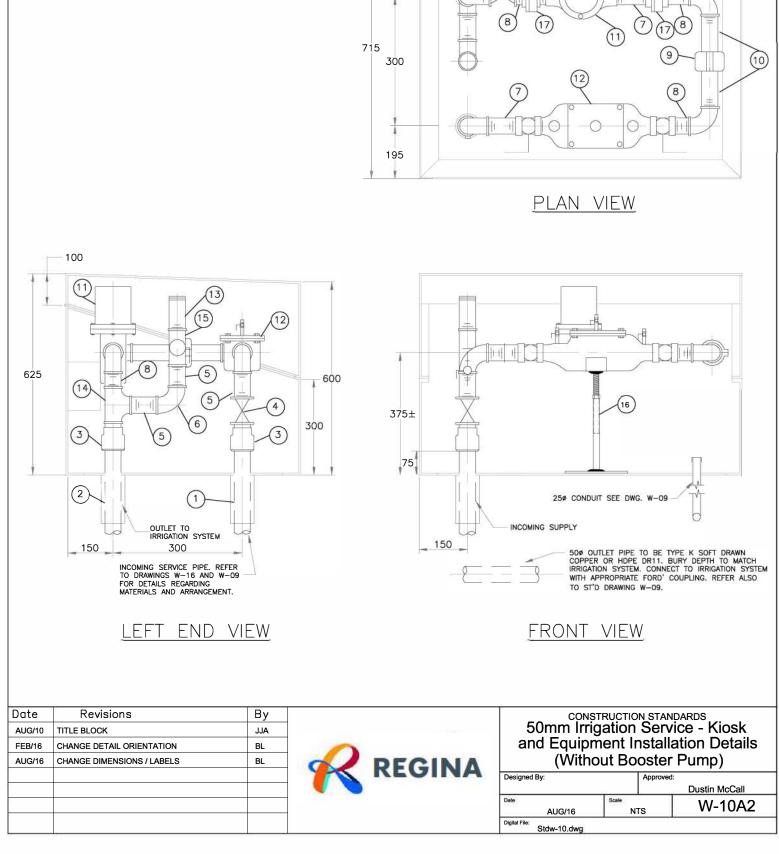
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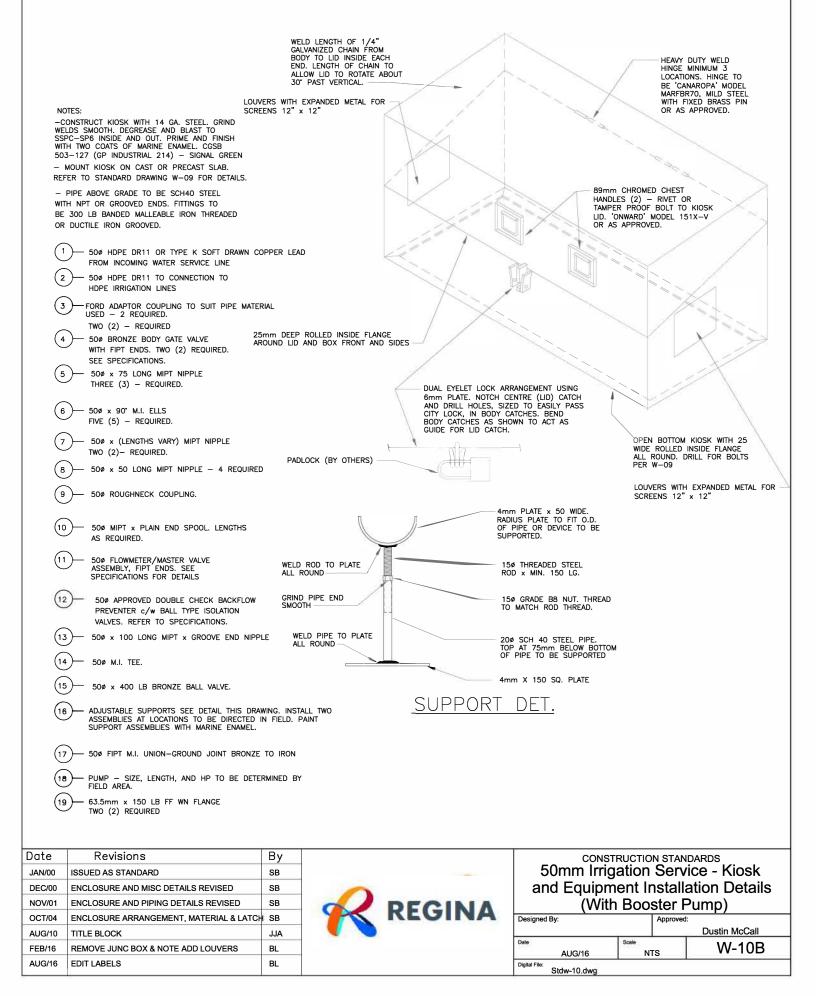
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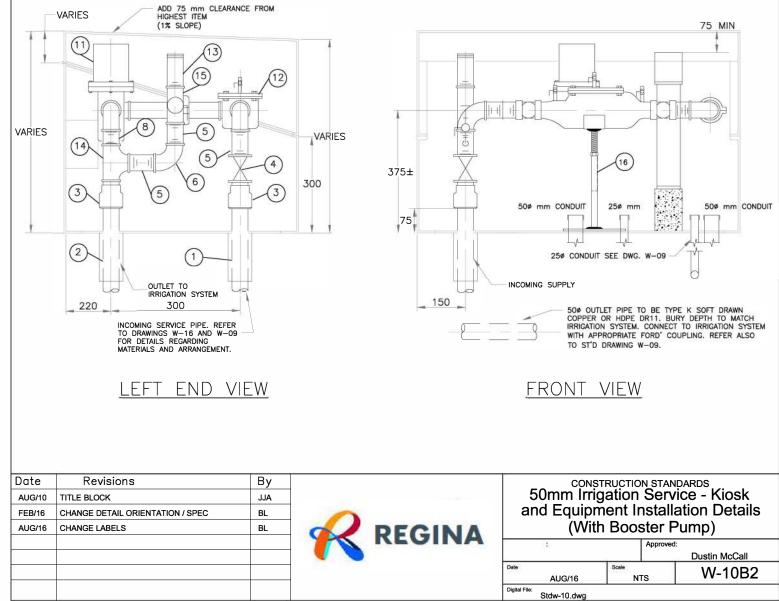




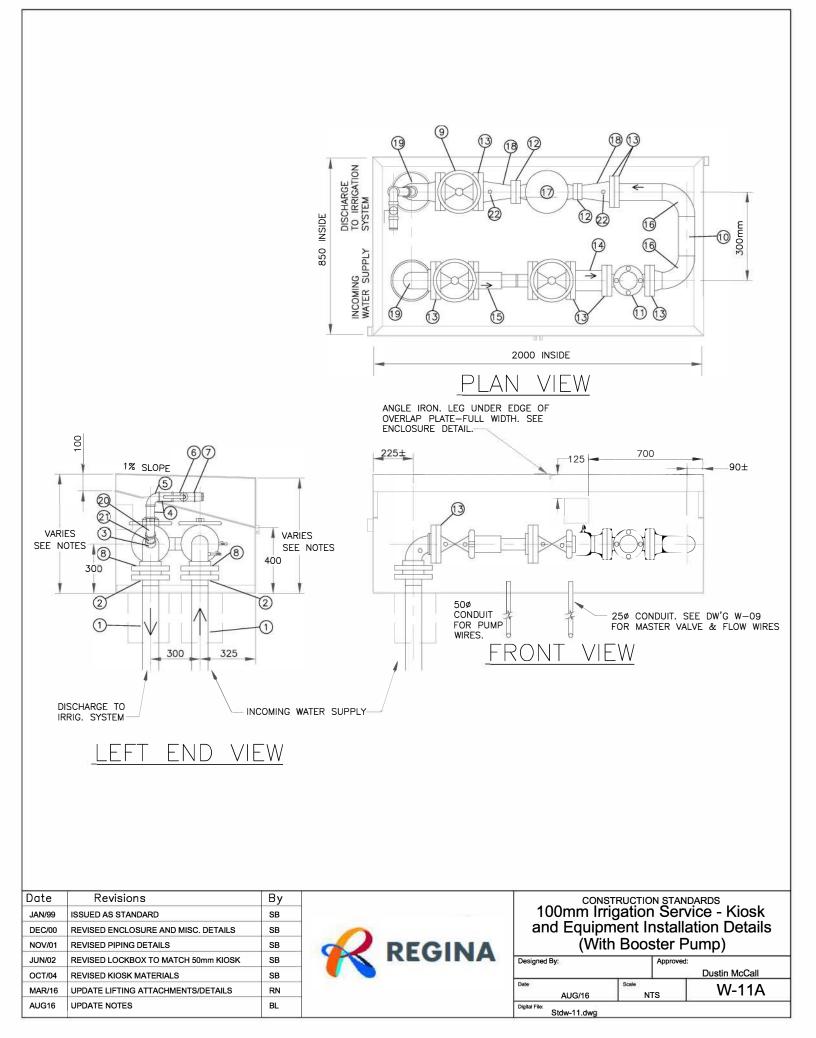
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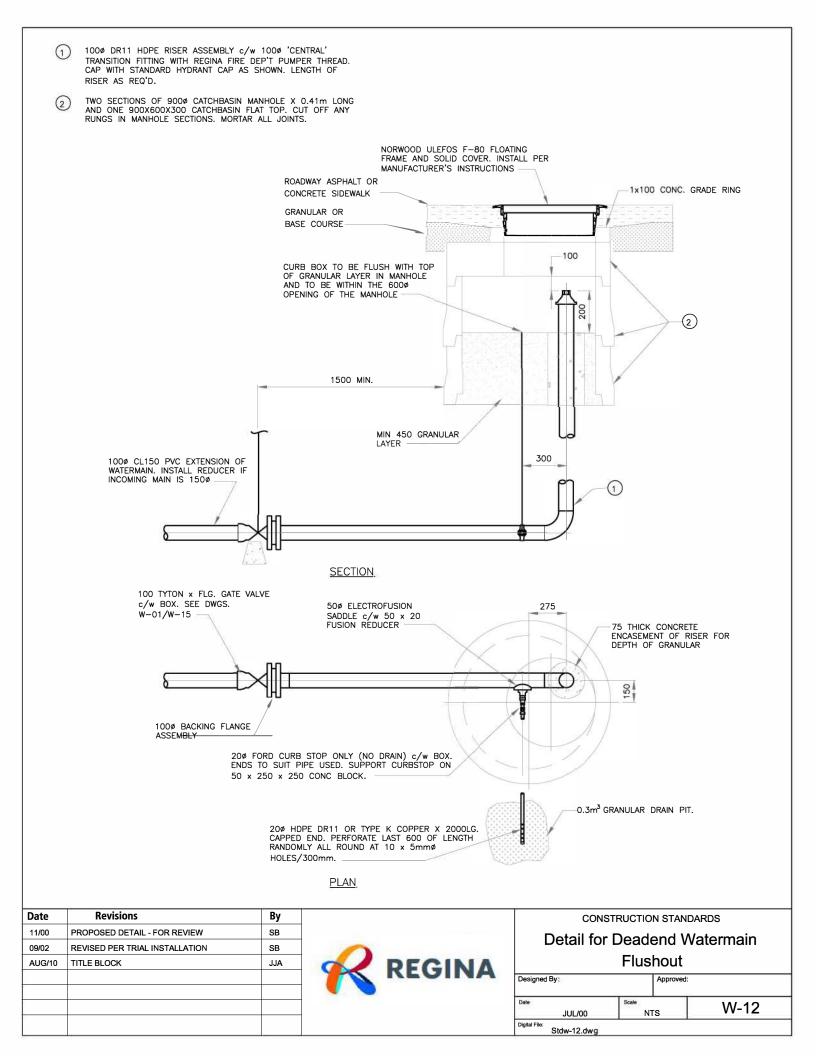


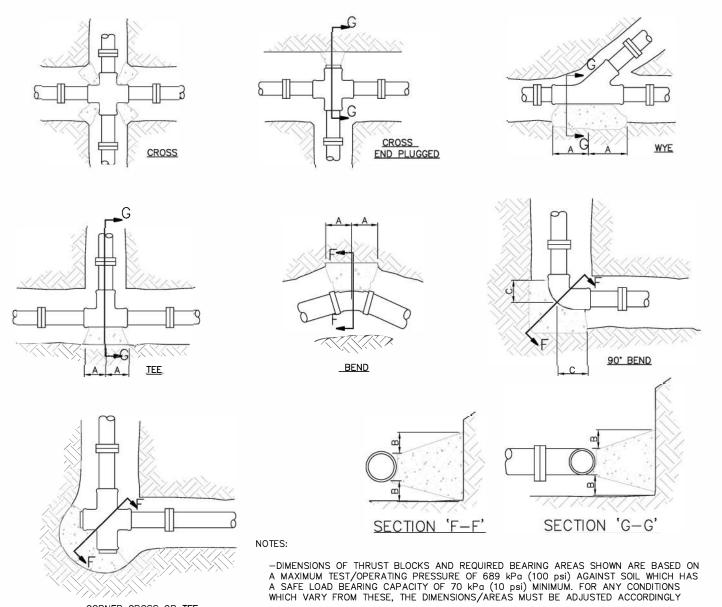
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| NOTES: | | | | | |
|--|---|--|---|--|--|
| GROUND SMOO | KIOSK WITH 14 GA. STEEL PLATE. ALL WELDS TO BE F ITH. DEGREASE, BLAST TO SSPC-SP6 INSIDE AND OUT WO COATS OF MARINE ENAMEL-COLOUR CGSB 503-12 REEN) | . PRIME AND | WELD LENGTH OF 1/4" | | |
| | ON PRECAST OR CAST-IN-PLACE SLAB. REFER TO S | | GALVANIZED CHAIN FROM BODY TO LID INSIDE EACH END. LENGTH OF CHAIN TO | 2 LOCATION | Y WELD HINGE MINIMUM IS EACH LID. |
| -PIPE AND FI | AB DETAILS AND SUPPLY/DISCHARGE PIPING ARRANGEN TTINGS 75mm AND LARGER TO BE STANDARD WT. STEE TO BE SCH40. STEEL. | | END. LENGTH OF CHAIN TO ALLOW LID TO ROTATE ABOUT 30° PAST VERTICAL. | WEIGHT 2 | BUTT HINGE STANDARD TWO) BALL BEARING /W GREASE NIPPLE. |
| SPOOL PIECE | INIMUM OF 2 REMOVABLE/ADJUSTABLE SUPPORTS. ON AND ONE UNDER #10 SPOOL PIECE. CLEAN, PRIME AN H TWO COATS OF MARINE ENAMEL. SEE DETAIL THIS D | ND PAINT | | | 100 WIDE x 10 GA. PLATE OVERLAPPING 75 |
| | KIOSK SHOWN IS BASED UPON HEIGHT REQUIREMENTS | | 6 / | | OVER RIGHT HAND LID. WELD TO LEFT HAND LID FULL LENGTH. PROVIDE WEATHER SEAL FULL WIDTH UNDER OVERLAP. |
| W-09 AND | HOPE DR11 RISER FOR SUPPLY AND DISCHARGE NUATION REFER TO STANDARD DRAWINGS W-16, STE PLAN. | LOUVERS WITH EXPANDED M | | SPLIT LIDS - EQUAL | 25x25x6 ANGLE IRON WELDED TO UNDERSIDE OF END OF RIGHT HAND LID FULL WIDTH. PLACE ANGLE AS SHOWN ON FROM T VIEW. |
| BACKING F REQUIRED. | HDPE STUB END AND BACKING FLANGE ASSEMBLY. LANGES TO BE EPOXY COATED DUCTILE IRON - 2 WELDOLET | SCREENS 30mm x 30mm | | X// | |
| - | x 75 LONG NIPPLE NPT BOTH ENDS - 2 REQUIRED. | | | | |
| • | x 300LB 90° M.I. THREAD ELL. x 400 LB WOG BRONZE BALL VALVE. NPT ENDS. | | | | |
| - | x 75mm NPT GRUVLOK ADAPTOR. | 89mm HANDI | CHROMED CHEST | | ×. |
| 6 – 100mm | x 150LB FF SO FLANGE - 2 REQUIRED | TAMPE LID.'ON | R PROOF BOLT TO WARD' MODEL | | N / 7 |
| RESILIENT | x 125LB CAST IRON BODY, FLANGED END SEATED GATE VALVE C/W WITH NON-RISING STEM C509 — ONE REQUIRED. | 151X- APPRO | V OR AS VED. | | |
| 10 – 75mm | STEEL PIPE - 300mm CENTRE TO CENTRE. | | | | |
| 1 – 75mm SPECIFIED. | FLOWMETER/MASTER VALVE ASSEMBLY AS | EXTEND 100 V PLATE TO BOT | VIDE OVERLAP | The second | |
| | x 150LB FF WN FLANGE - 2 REQUIRED | PLATE IO BOI | I'D DUAL EYELET LOCK ARRANGEMENT USIN | G / | |
| • | x 125LB FF SO FLANGE - 8 REQUIRED. | Δ. | 6mm PLATE. NOTCH CENTRE (LID) CAT | СН | |
| | SPOOL PIECE C/W 2-75mm 150 LB FF 80 ENGTH DETERMINED IN FIELD | | CITY LOCK, IN BODY CATCHES. BEND BODY CATCHES AS SHOWN TO ACT AS GUIDE FOR LID CATCH. | | |
| (5) – 75mm ASSEMBLY VALVES. 'V | DOUBLE CHECK STYLE BACKFLOW PREVENTOR c/w NON-RISING STEM GATE STYLE ISOLATING IATTS' 757 OR AS APPROVED. | \sim | | 25 DEEP ROLLED INSIDE FLANGE ON LID AND BOX FRONT AND | |
| - | LONG RADIUS 90" WELD ELLS - 2 REQUIRED | | | SIDES | |
| TPUMP - FIELD BY | IORSEPOWER AND LENGTH TO BE DETERMINED IN PARK AREA | Alle | PADLOCK (BY OTHERS) | | |
| 16 - 75mm PIPE - 2 | x 63.5 mm SPOOL PIECES SCHEDULE 40 IRON (TWO) REQUIRED | | - | BODY TO HAVE OPEN BOTTOM W 25 WIDE ROLLED INSIDE FLANGE | SCREENS 30mm x 30mm |
| | | | | | |
| (9 - 100mm | x 75mm LONG RADIUS 90° WELD ELLS - 2 | | 4mm PLATE x 50 WIDE. | DRILLED FOR ANCHOR BOLTS PE DWG W-09 | κ. |
| 19 – 100mm REQUIRED | | - | RADIUS PLATE TO FIT O.D OF PIPE/EQUIPMENT TO E | DRILLED FOR ANCHOR BOLTS PE DWG W-09 | |
| (9 – 100mm REQUIRED (0 – 50mm (1) – 50mm | x 75mm LONG RADIUS 90' WELD ELLS - 2 x 45' 300LB THREAD ELL x 65mm CLOSE NIPPLE | | RADIUS PLATE TO FIT 0.D | DRILLED FOR ANCHOR BOLTS PE DWG W-09 | DETAIL |
| (9 – 100mm REQUIRED (0 – 50mm (1) – 50mm | x 75mm LONG RADIUS 90° WELD ELLS - 2 x 45° 300LB THREAD ELL | WELD ROD TO PLATE | RADIUS PLATE TO FIT O.D OF PIPE/EQUIPMENT TO E | DRILLED FOR ANCHOR BOLTS PE DWG W-09 | |
| (9 – 100mm REQUIRED (0 – 50mm (1) – 50mm | x 75mm LONG RADIUS 90' WELD ELLS - 2 x 45' 300LB THREAD ELL x 65mm CLOSE NIPPLE | ALL ROUND | RADIUS PLATE TO FIT O.D. OF PIPE/EQUIPMENT TO E SUPPORTED. 15# THREADED STEEL ROD x MIN. 150 LG. | DRILLED FOR ANCHOR BOLTS PE DWG W-09 SE <u>KIOSK</u> NOT TO SCALE | |
| (9 – 100mm REQUIRED (0 – 50mm (1) – 50mm | x 75mm LONG RADIUS 90' WELD ELLS - 2 x 45' 300LB THREAD ELL x 65mm CLOSE NIPPLE | WELD ROD TO PLATE ALL ROUND GRIND PIPE END SMOOTH | RADIUS PLATE TO FIT O.D. OF PIPE/EQUIPMENT TO E SUPPORTED. 15¢ THREADED STEEL | DRILLED FOR ANCHOR BOLTS PE DWG W-09 SE <u>KIOSK</u> NOT TO SCALE | |
| (9 – 100mm REQUIRED (0 – 50mm (1) – 50mm | x 75mm LONG RADIUS 90' WELD ELLS - 2 x 45' 300LB THREAD ELL x 65mm CLOSE NIPPLE | ALL ROUND | RADIUS PLATE TO FIT O.D. OF PIPE/EQUIPMENT TO E SUPPORTED. 15# THREADED STEEL ROD x MIN. 150 LG. 15# GRADE B8 NUT. TH TO MATCH ROD THREAD. 20# SCH 40 STEEL PIPE TOP AT 75mm BELOW B | DRILLED FOR ANCHOR BOLTS PE DWG W-09 SE <u>KIOSK</u> NOT TO SCALE | |
| (9 – 100mm REQUIRED (0 – 50mm (1) – 50mm | x 75mm LONG RADIUS 90' WELD ELLS - 2 x 45' 300LB THREAD ELL x 65mm CLOSE NIPPLE | ALL ROUND GRIND PIPE END SMOOTH WELD PIPE TO PLATE | RADIUS PLATE TO FIT O.D. OF PIPE/EQUIPMENT TO E SUPPORTED. 15# THREADED STEEL ROD x MIN. 150 LG. 15# GRADE BB NUT. THI TO MATCH ROD THREAD. 20# SCH 40 STEEL PIPE | DRILLED FOR ANCHOR BOLTS PE DWG W-09 SE <u>KIOSK</u> NOT TO SCALE | |
| (9 – 100mm REQUIRED (0 – 50mm (1) – 50mm | x 75mm LONG RADIUS 90' WELD ELLS - 2 x 45' 300LB THREAD ELL x 65mm CLOSE NIPPLE | ALL ROUND | RADIUS PLATE TO FIT O.D. OF PIPE/FCQUIPMENT TO E SUPPORTED. 15# THREADED STEEL ROD x MIN. 150 LG. 15# GRADE B8 NUT. THI TO MATCH ROD THREAD. 20# SCH 40 STEEL PIPE TOP AT 75mm BELOW B OF PIPE TO BE SUPPOR 4mm X 150 SQ. PLATE | DRILLED FOR ANCHOR BOLTS PE DWG W-09 SE <u>KIOSK</u> NOT TO SCALE | |
| (9 – 100mm REQUIRED (0 – 50mm (1) – 50mm | x 75mm LONG RADIUS 90' WELD ELLS - 2 x 45' 300LB THREAD ELL x 65mm CLOSE NIPPLE | ALL ROUND GRIND PIPE END SMOOTH WELD PIPE TO PLATE | RADIUS PLATE TO FIT O.D. OF PIPE/FCQUIPMENT TO E SUPPORTED. 15# THREADED STEEL ROD x MIN. 150 LG. 15# GRADE B8 NUT. THI TO MATCH ROD THREAD. 20# SCH 40 STEEL PIPE TOP AT 75mm BELOW B OF PIPE TO BE SUPPOR 4mm X 150 SQ. PLATE | DRILLED FOR ANCHOR BOLTS PE DWG W-09 SE <u>KIOSK</u> NOT TO SCALE | |
| (9 – 100mm REQUIRED (0 – 50mm (1) – 50mm | x 75mm LONG RADIUS 90' WELD ELLS - 2 x 45' 300LB THREAD ELL x 65mm CLOSE NIPPLE | ALL ROUND | RADIUS PLATE TO FIT O.D. OF PIPE/FCQUIPMENT TO E SUPPORTED. 15# THREADED STEEL ROD x MIN. 150 LG. 15# GRADE B8 NUT. THI TO MATCH ROD THREAD. 20# SCH 40 STEEL PIPE TOP AT 75mm BELOW B OF PIPE TO BE SUPPOR 4mm X 150 SQ. PLATE | DRILLED FOR ANCHOR BOLTS PE DWG W-09 SE <u>KIOSK</u> NOT TO SCALE | |
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| (9 – 100mm REQUIRED (0 – 50mm (1) – 50mm | x 75mm LONG RADIUS 90' WELD ELLS - 2 x 45' 300LB THREAD ELL x 65mm CLOSE NIPPLE | ALL ROUND | RADIUS PLATE TO FIT O.D. OF PIPE/FCQUIPMENT TO E SUPPORTED. 15# THREADED STEEL ROD x MIN. 150 LG. 15# GRADE B8 NUT. THI TO MATCH ROD THREAD. 20# SCH 40 STEEL PIPE TOP AT 75mm BELOW B OF PIPE TO BE SUPPOR 4mm X 150 SQ. PLATE | DRILLED FOR ANCHOR BOLTS PE DWG W-09 SE <u>KIOSK</u> NOT TO SCALE | |
| (9 – 100mm REQUIRED (0 – 50mm (1) – 50mm | x 75mm LONG RADIUS 90' WELD ELLS - 2 x 45' 300LB THREAD ELL x 65mm CLOSE NIPPLE | ALL ROUND | RADIUS PLATE TO FIT O.D. OF PIPE/FCQUIPMENT TO E SUPPORTED. 15# THREADED STEEL ROD x MIN. 150 LG. 15# GRADE B8 NUT. THI TO MATCH ROD THREAD. 20# SCH 40 STEEL PIPE TOP AT 75mm BELOW B OF PIPE TO BE SUPPOR 4mm X 150 SQ. PLATE | DRILLED FOR ANCHOR BOLTS PE DWG W-09 SE <u>KIOSK</u> NOT TO SCALE | |
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| (9 – 100mm REQUIRED (0 – 50mm (1) – 50mm | x 75mm LONG RADIUS 90' WELD ELLS - 2 x 45' 300LB THREAD ELL x 65mm CLOSE NIPPLE | ALL ROUND | RADIUS PLATE TO FIT O.D. OF PIPE/FCQUIPMENT TO E SUPPORTED. 15# THREADED STEEL ROD x MIN. 150 LG. 15# GRADE B8 NUT. THI TO MATCH ROD THREAD. 20# SCH 40 STEEL PIPE TOP AT 75mm BELOW B OF PIPE TO BE SUPPOR 4mm X 150 SQ. PLATE | DRILLED FOR ANCHOR BOLTS PE DWG W-09 SE <u>KIOSK</u> NOT TO SCALE READ | |
| (9 – 100mm REQUIRED (0 – 50mm (1) – 50mm | x 75mm LONG RADIUS 90' WELD ELLS - 2 x 45' 300LB THREAD ELL x 65mm CLOSE NIPPLE | ALL ROUND | RADIUS PLATE TO FIT O.D. OF PIPE/FCQUIPMENT TO E SUPPORTED. 15# THREADED STEEL ROD x MIN. 150 LG. 15# GRADE B8 NUT. THI TO MATCH ROD THREAD. 20# SCH 40 STEEL PIPE TOP AT 75mm BELOW B OF PIPE TO BE SUPPOR 4mm X 150 SQ. PLATE | DRILLED FOR ANCHOR BOLTS PE DWG W-09 SE <u>KIOSK</u> NOT TO SCALE READ | |
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| (9) = 100mm REQUIRED (9) = 50mm (9) = 50mm | x 75mm LONG RADIUS 90' WELD ELLS – 2 x 45' 300LB THREAD ELL x 65mm CLOSE NIPPLE ET 75mm x 12.7mm FIPT – 2 REQUIRED ET 75mm S 12.7mm FIPT – 2 REQUIRED SUED AS STANDARD REVISED ENCLOSURE AND MISC. DETAIL REVISED PIPING DETAILS REVISED PIPING DETAILS REVISED LOCKBOX TO MATCH 50mm KIC REVISED KIOSK MATERIALS | ALL ROUND GRIND PIPE END SMOOTH WELD PIPE TO PLATE ALL ROUND SUPPO SUPPO SB LS SB LS SB SB SB SB SB | ADULS PLATE TO FIT OLD OF PIPE/EQUIPMENT TO E SUPPORTED. 15# THREADED STEEL ROD X MIN. 150 LG. 15# GRADE BB NUT. THI TO MATCH ROD THREAD. 20# SCH 40 STEEL PIPE TOP AT 75mm BELOW B OF PIPE TO BE SUPPOR 4mm X 150 SQ. PLATE RT DET. | READ TED TED TED TED TED TED TED TE | DETAIL STRUCTION STANDARDS rigation Service - Kiosk ment Installation Details th Booster Pump) |







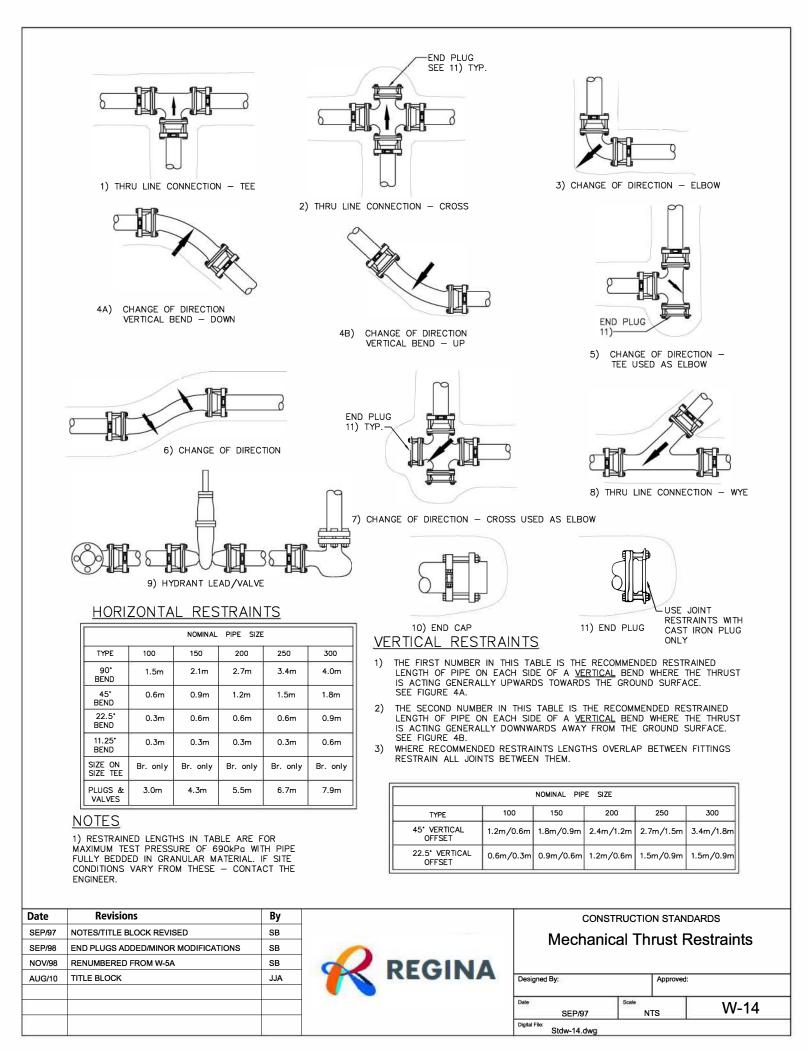
-REFER TO SPECIFICATIONS SECTION 02511 - WATERMAINS FOR CONCRETE REQUIREMENTS

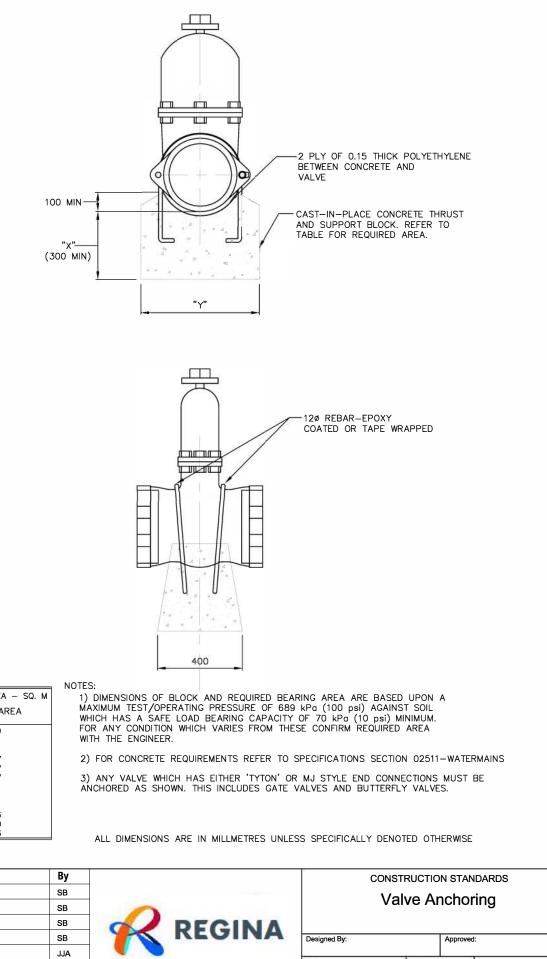
CORNER CROSS OR TEE END(S) PLUGGED

ALL DIMENSIONS ARE IN MILLMETRES UNLESS SPECIFICALLY DENOTED OTHERWISE

| PIPE | | 90°BEN | ID | | | 45°BEND | | | TEE, PLUGS, WYES | | | 22.5 & 11.25 BENDS | | | | |
|----------|------|--------|------|--------|------|---------|------|--------|------------------|------|------|--------------------|------|------|------|--------|
| DIAMETER | Α | В | С | AREA | Α | В | С | AREA | A | В | С | AREA | A | В | С | AREA |
| (mm) | (mm) | (mm) | (mm) | (sq.m) | (mm) | (mm) | (mm) | (sq.m) | (mm) | (mm) | (mm) | (sq.m) | (mm) | (mm) | (mm) | (sq.m) |
| 100 | | 170 | 200 | 0.16 | 160 | 110 | | 0.09 | 190 | 140 | | 0.11 | 110 | 60 | | 0.04 |
| 150 | | 250 | 300 | 0.33 | 240 | 160 | | 0.18 | 270 | 190 | | 0.23 | 160 | 90 | | 0.08 |
| 200 | | 320 | 350 | 0.56 | 310 | 210 | | 0.30 | 350 | 250 | | 0.40 | 210 | 110 | | 0.14 |
| 250 | | 390 | 400 | 0.85 | 380 | 250 | | 0.46 | 430 | 310 | | 0.60 | 260 | 140 | | 0.22 |
| 300 | | 460 | 450 | 1.20 | 450 | 300 | | 0.65 | 520 | 370 | | 0.85 | 310 | 160 | | 0.31 |
| 350 | | 530 | 500 | 1.61 | 520 | 350 | | 0.87 | 600 | 420 | | 1.14 | 340 | 170 | | 0.38 |
| 400 | | 610 | 550 | 2.08 | 600 | 400 | | 1.13 | 680 | 480 | | 1.47 | 390 | 190 | | 0.49 |
| 450 | | 680 | 600 | 2.62 | 670 | 440 | | 1.42 | 760 | 540 | | 1.85 | 440 | 220 | | 0.62 |
| 500 | | 750 | 650 | 3.21 | 740 | 490 | | 1.75 | 840 | 590 | | 2.27 | 490 | 240 | | 0.77 |
| 600 | | 900 | 750 | 4.95 | 880 | 580 | | 2.49 | 1010 | 710 | | 3.24 | 590 | 290 | | 1.22 |
| 750 | | 1110 | 900 | 7.04 | 1090 | 720 | | 3.81 | 1250 | 870 | | 4.98 | 780 | 410 | | 1.95 |
| 900 | | 1330 | 1050 | 10.09 | 1310 | 860 | | 5.46 | 1490 | 1040 | | 7.14 | 930 | 480 | | 2.79 |

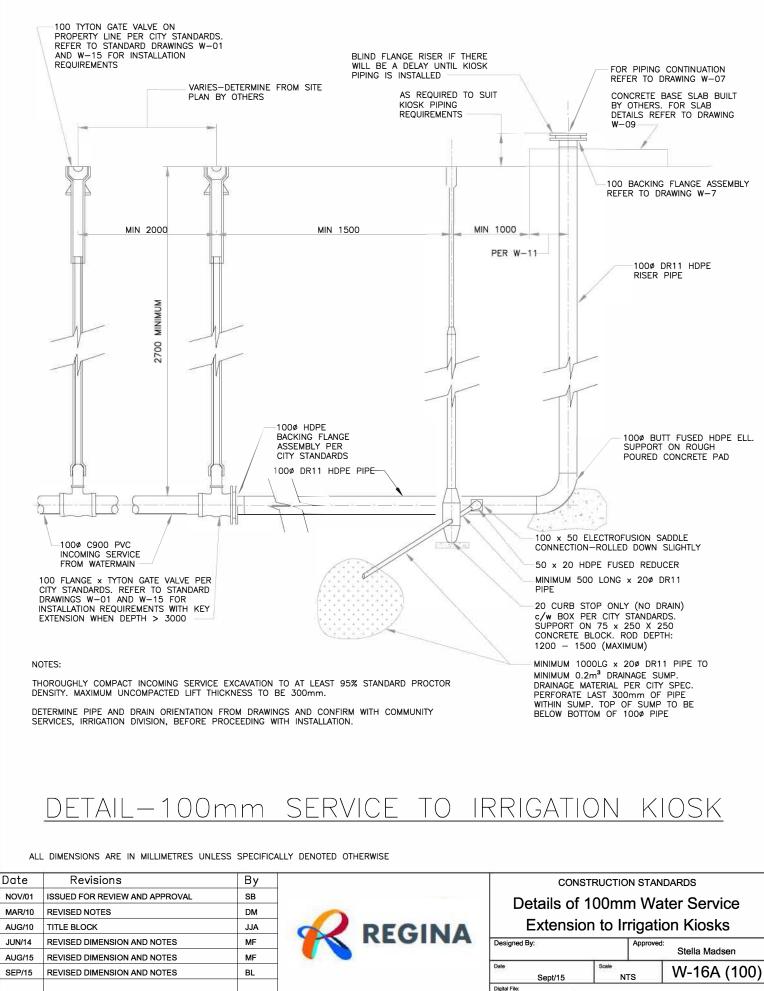
| Date | Revisions | Ву | | CONST | TRUCTIO | N STANDARDS | | | |
|--------|---------------------------|-----|--------|------------------------------|---------|-------------|--|--|--|
| SEP/97 | REVISED NOTES/TITLE BLOCK | SB | | | | | | | |
| MAY/98 | BLOCK AREAS REVISED | SB | REGINA | Thrust Blocks | | | | | |
| NOV/98 | RENUMBERED FROM W-5 | SB | | | | | | | |
| DEC\02 | SPEC. No. REF. CORRECTED | SB | REGINA | Designed By: Approved: | | | | | |
| AUG/10 | TITLE BLOCK | JJA | | | - | 1901 | | | |
| | | | | Date MAR/77 | Scale | s W-13 | | | |
| | | | | Digital File: Stdw-13.dwg | | | | | |



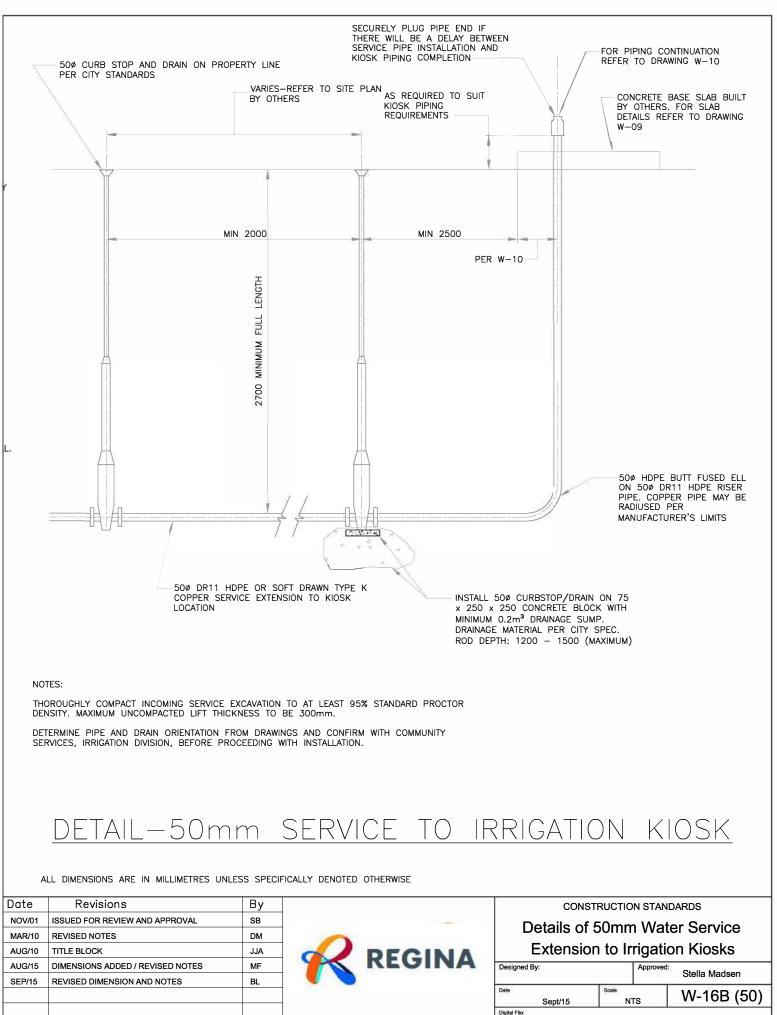


| VALVE SIZE (mm) | $\frac{\text{REQUIRED AREA} - \text{SQ. M}}{1000} = \text{AREA}$ |
|-----------------------|--|
| 100 | 0.09 |
| 150 | 0.18 |
| 200 | 0.31 |
| 250 | 0.47 |
| 300 | 0.67 |
| 350 | 0.97 |
| 400 | 1.25 |
| 450 | 1.56 |
| 500 | 1.93 |
| 600 | 2.73 |
| 750 | 4.20 |
| 900 | 6.03 |

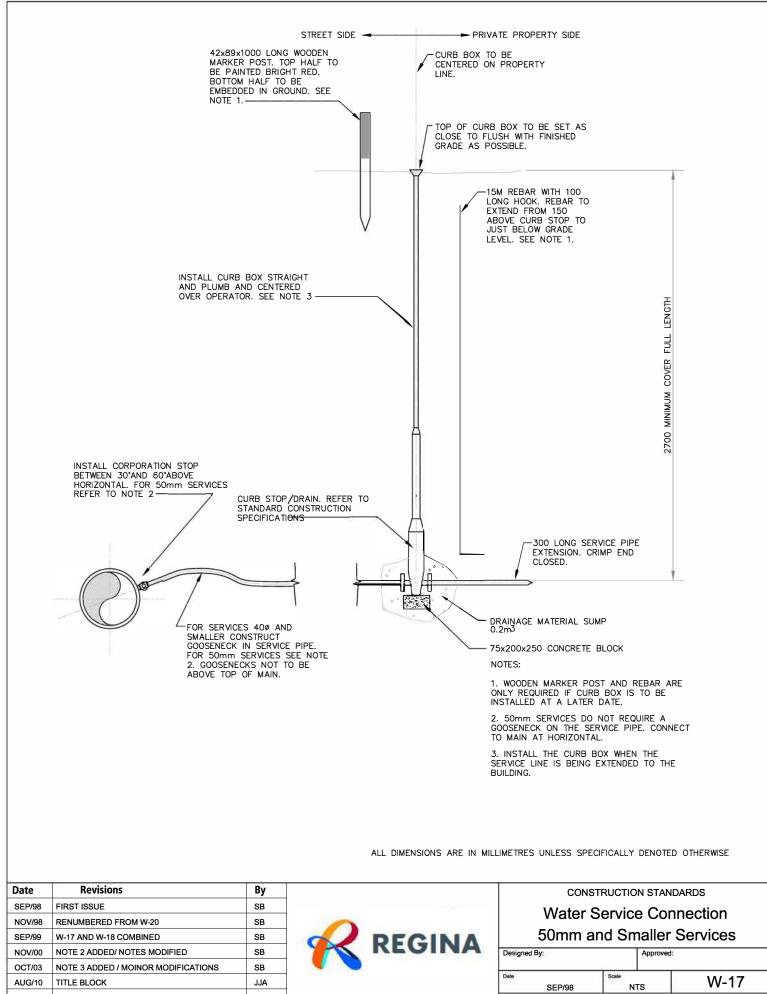
| | | | | 22 | | | | |
|--------|-------------------------|-----|-------|-----------------------|------------------------|--------------|------|--|
| Date | Revisions | Ву | | | CONSTRUCTION STANDARDS | | | |
| SEP/97 | REVISED TITLE BLOCK | SB | | rina | | | | |
| MAY/98 | REVISED AND TABLE ADDED | SB | 0 | - | Valve Anchoring | | | |
| NOV/98 | RENUMBERED FROM W-5B | SB | REGIN | A | | | | |
| NOV/01 | NOTE 3 ADDED TO CLARIFY | SB | KEGIN | Designed By: | | Approv | ved: | |
| AUG/10 | TITLE BLOCK | JJA | | | | | | |
| | | | | Date | DV/96 | icale NTS | W-15 | |
| | | | | Digital File: Stdw | -15.dwg | | | |



Stdw-16.dwg

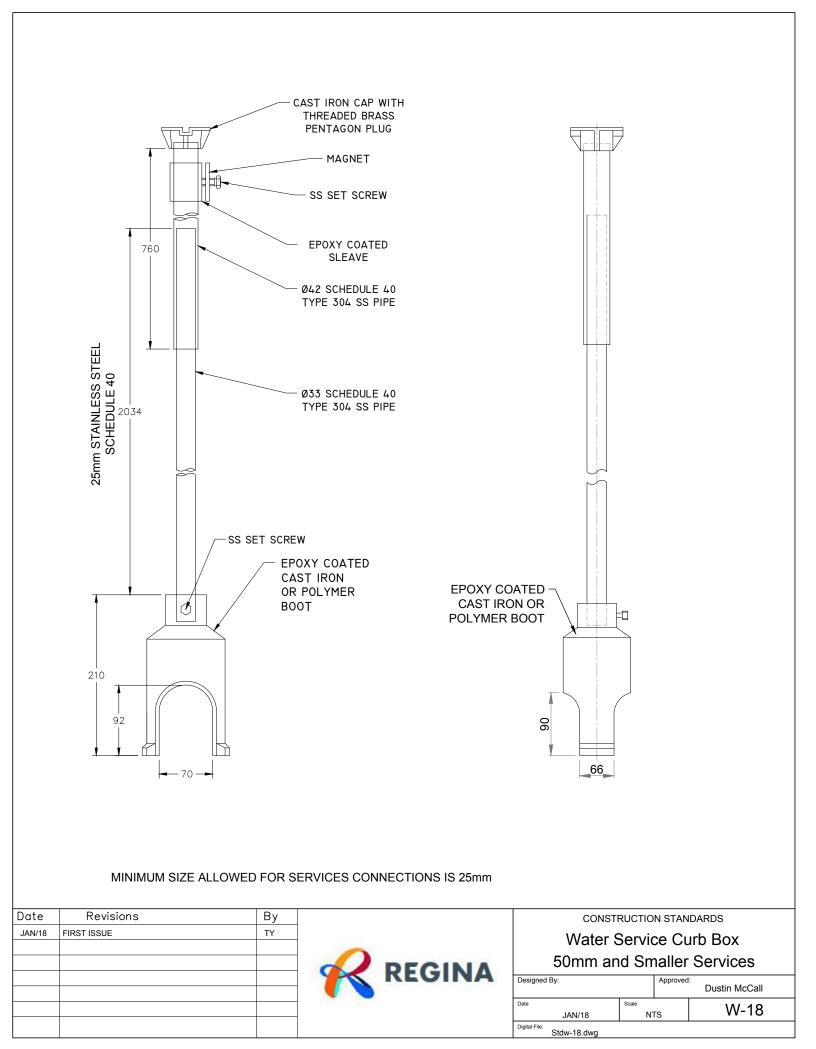


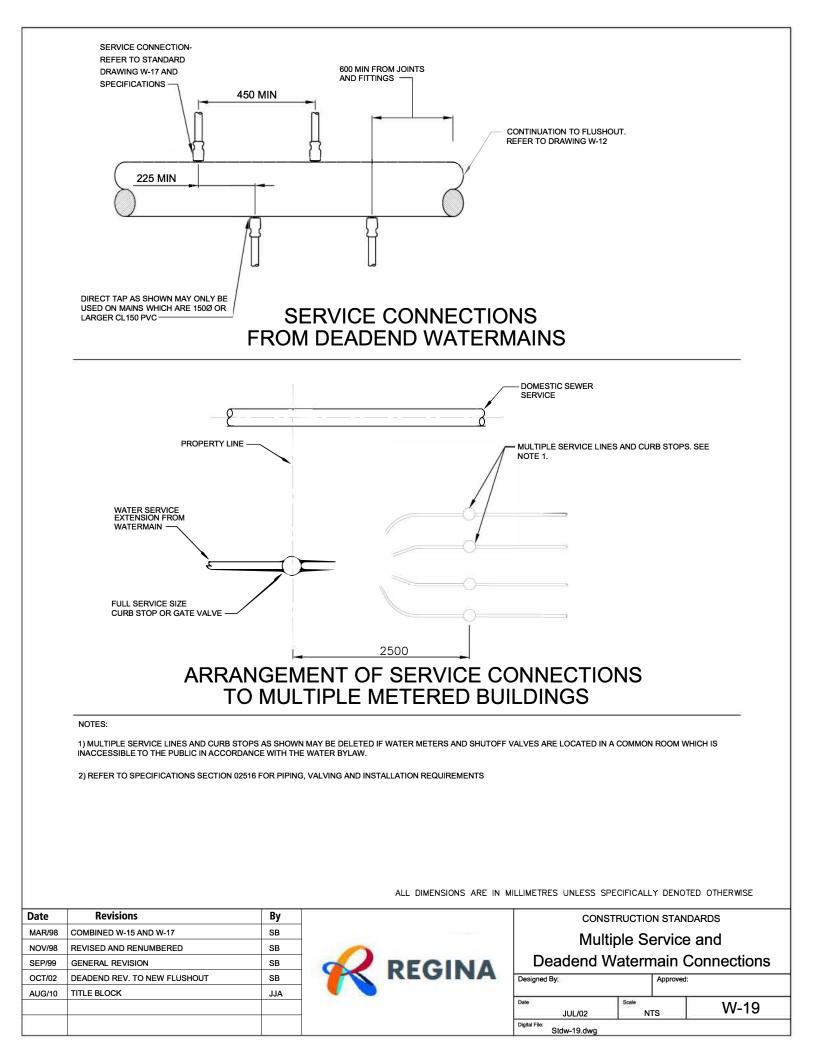
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| | | Sluw-TO.uwy |

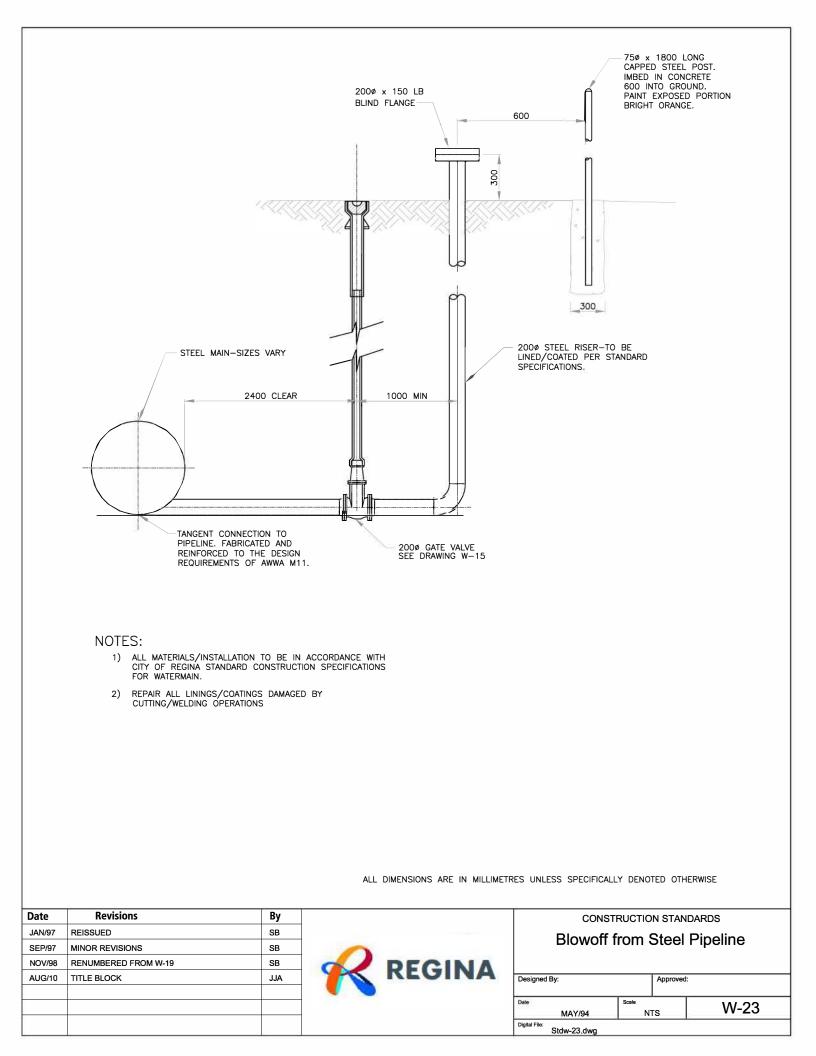


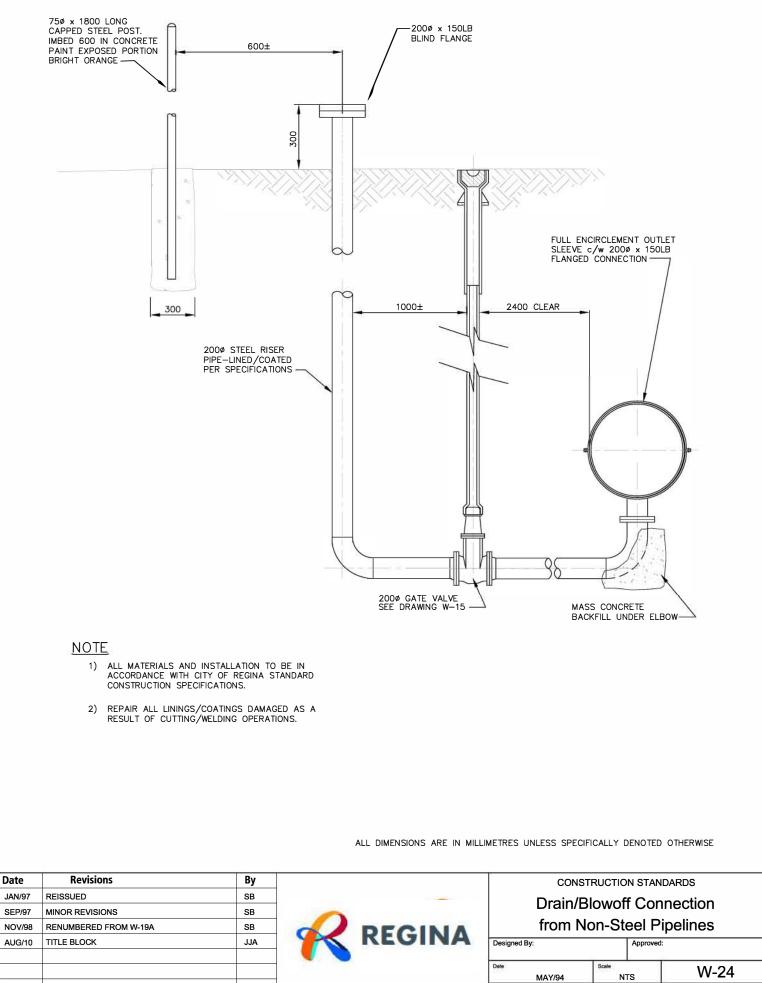
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7.dwg



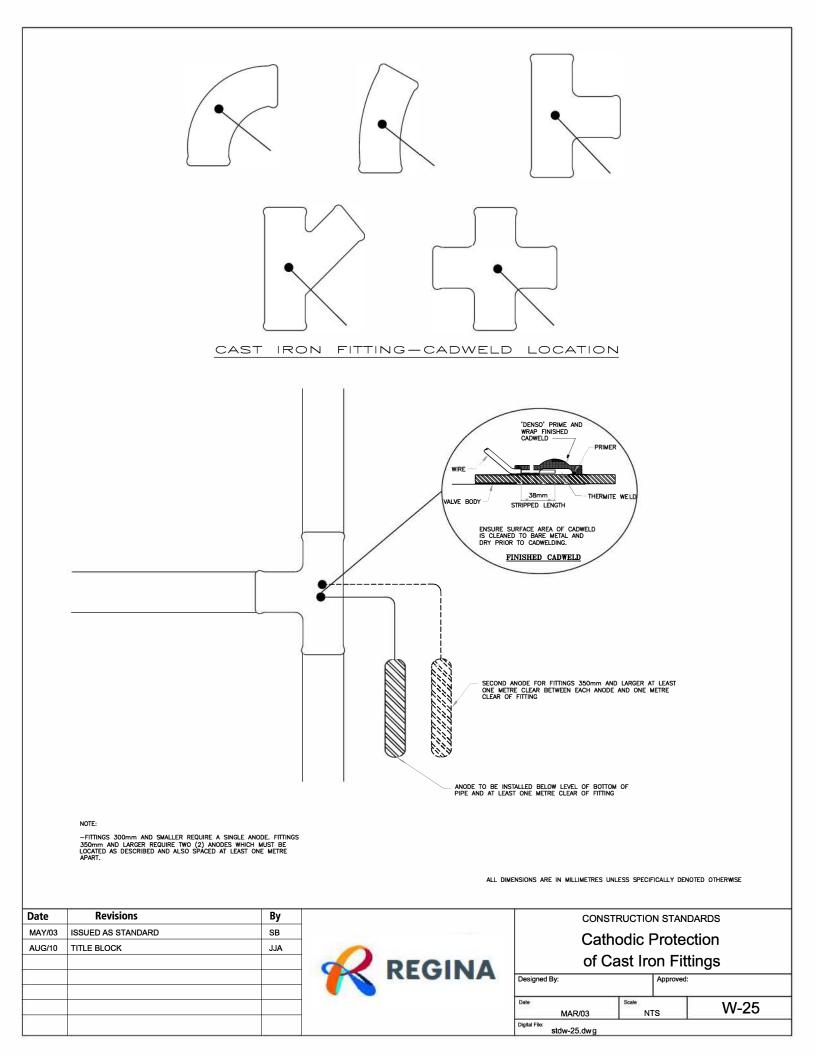


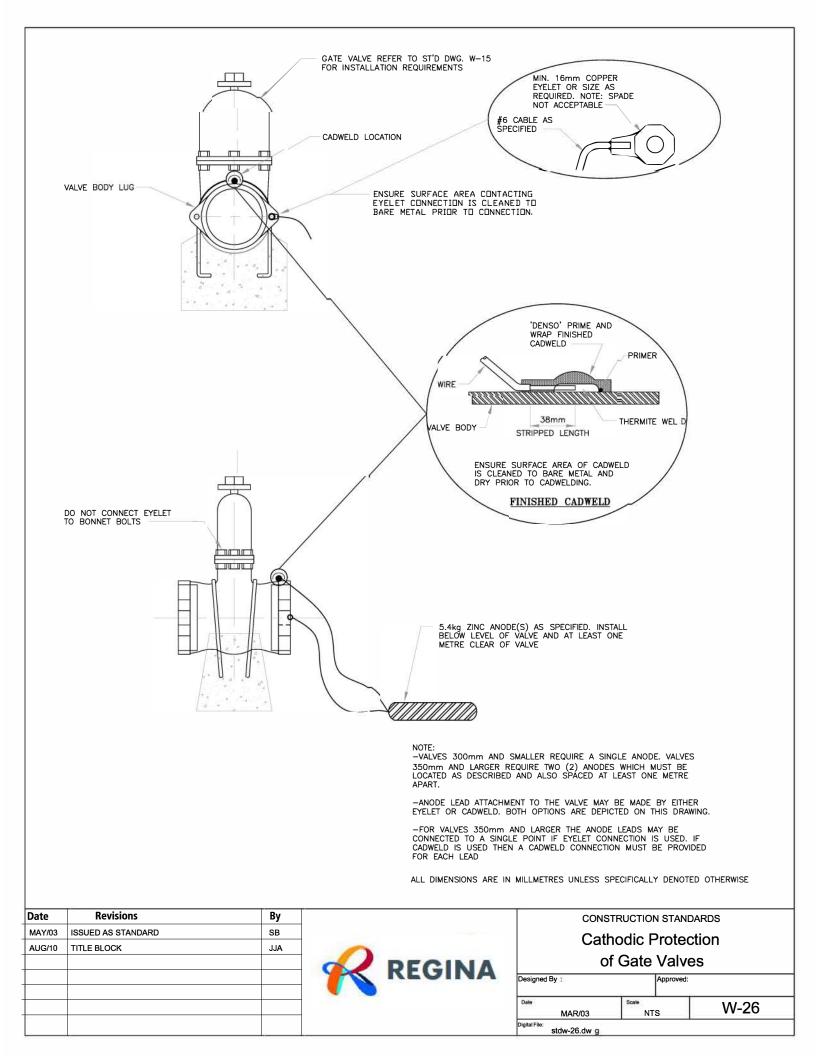


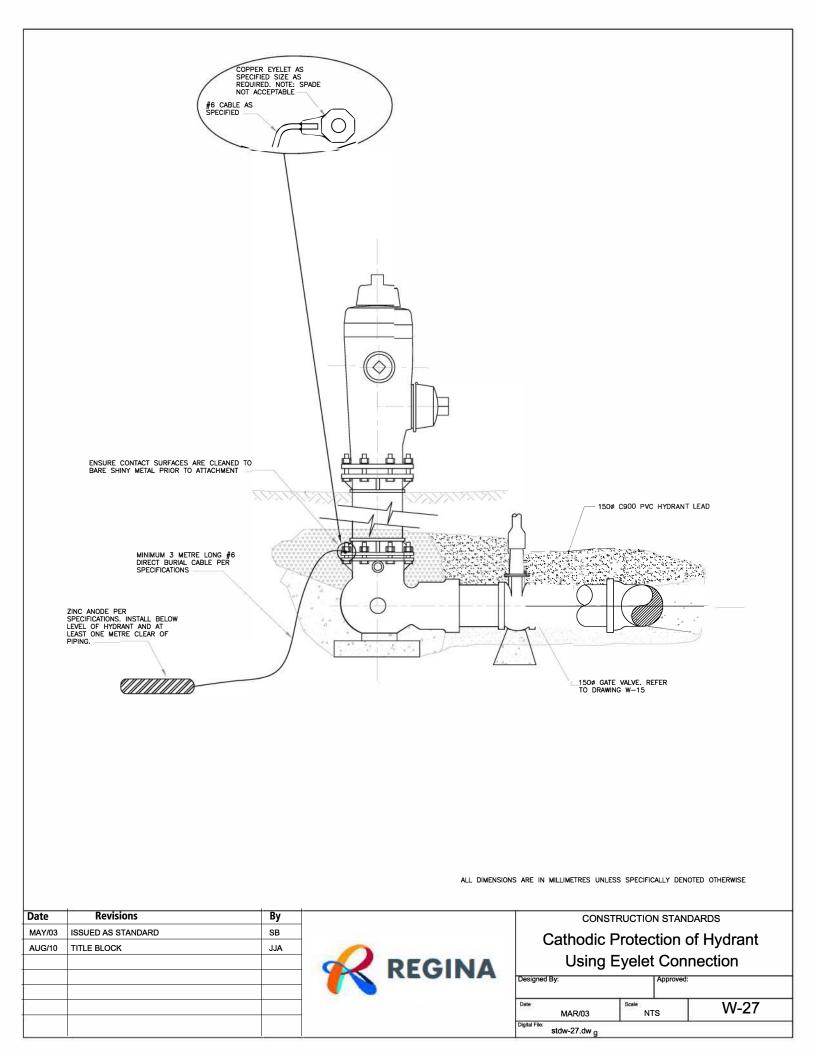


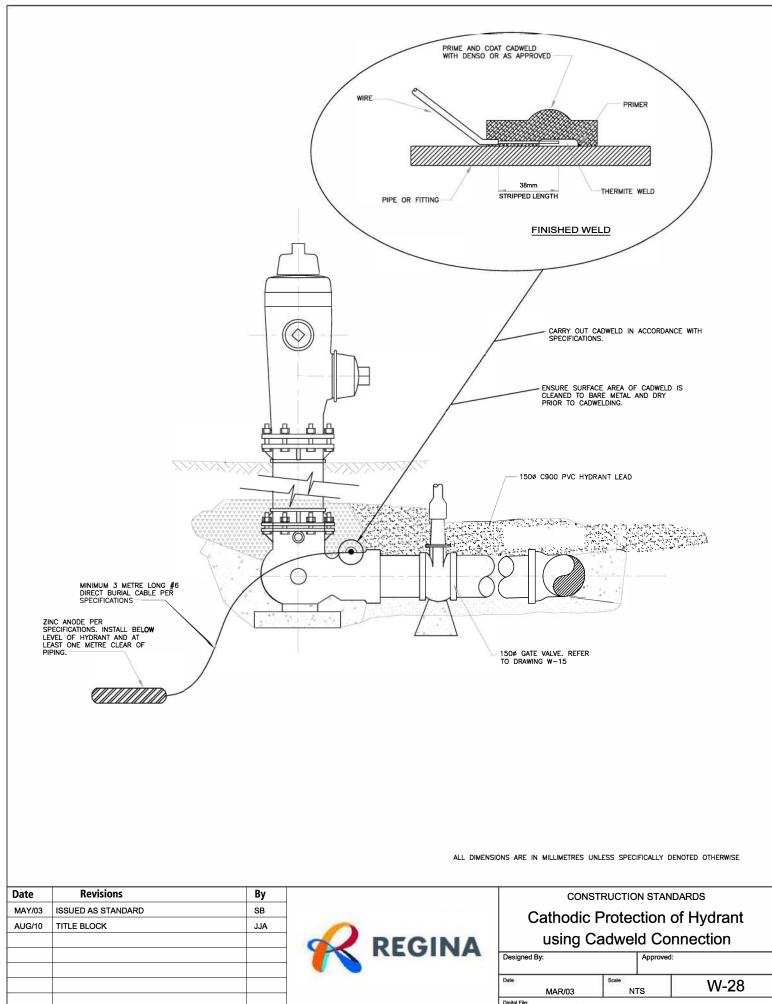
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| | |

NTS VV



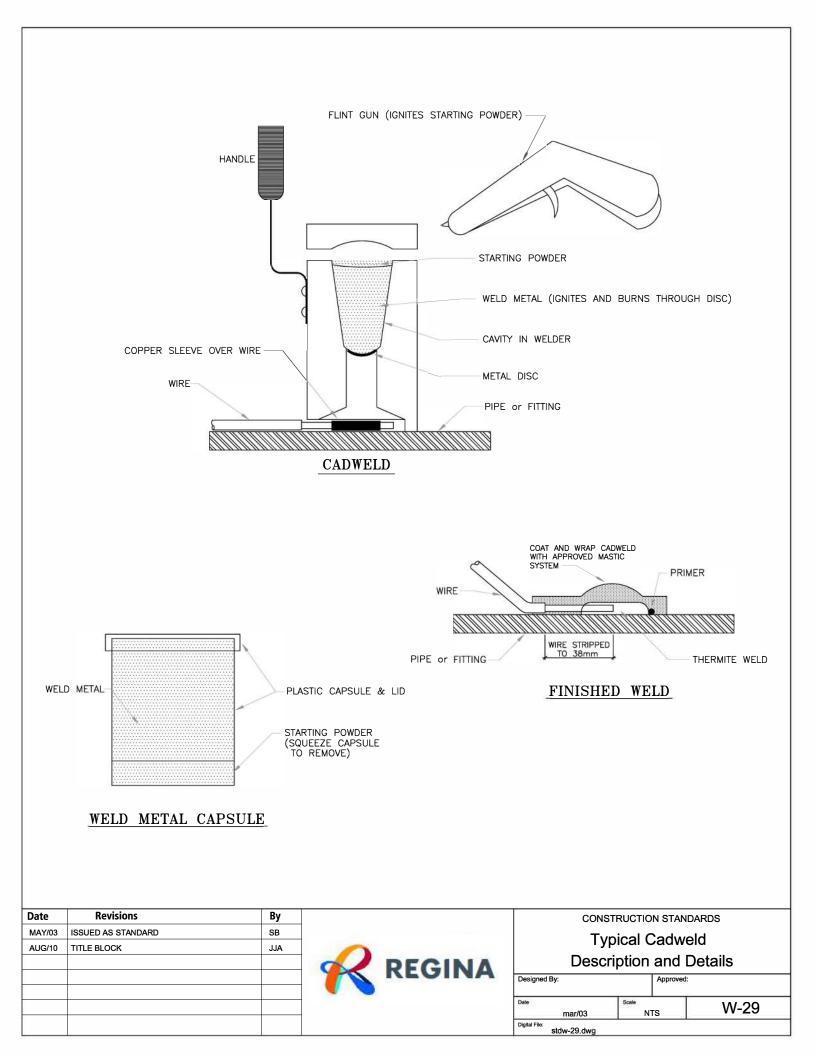


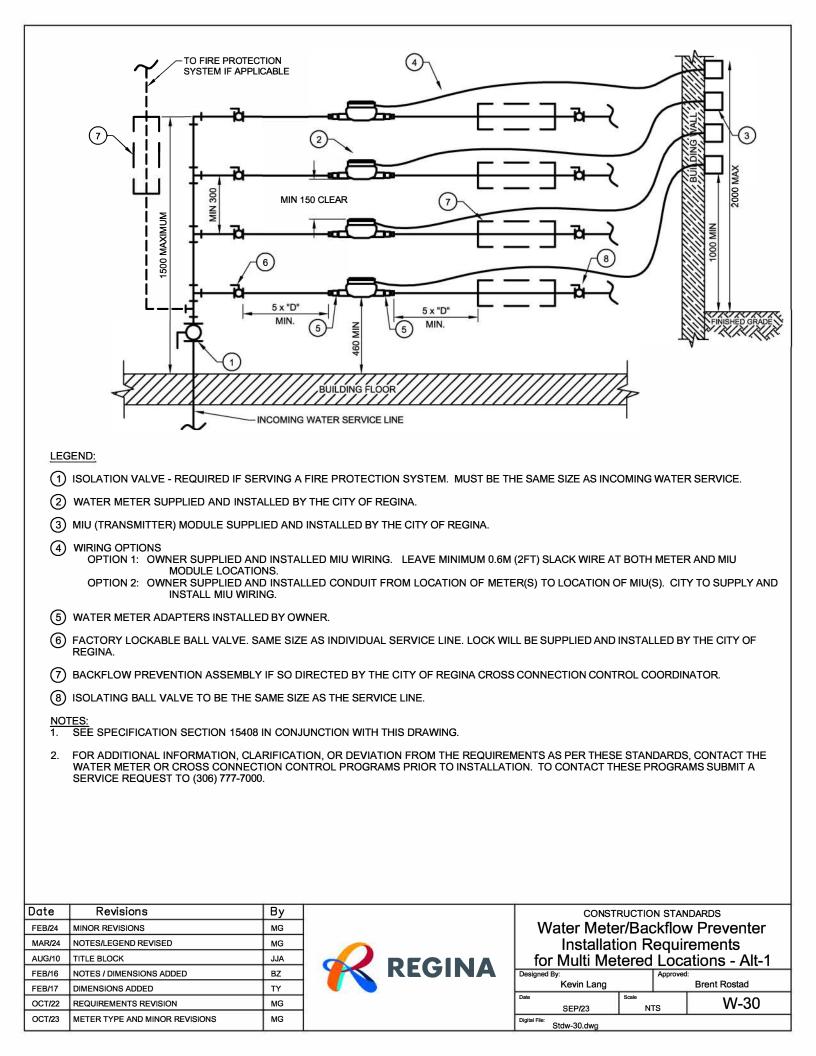




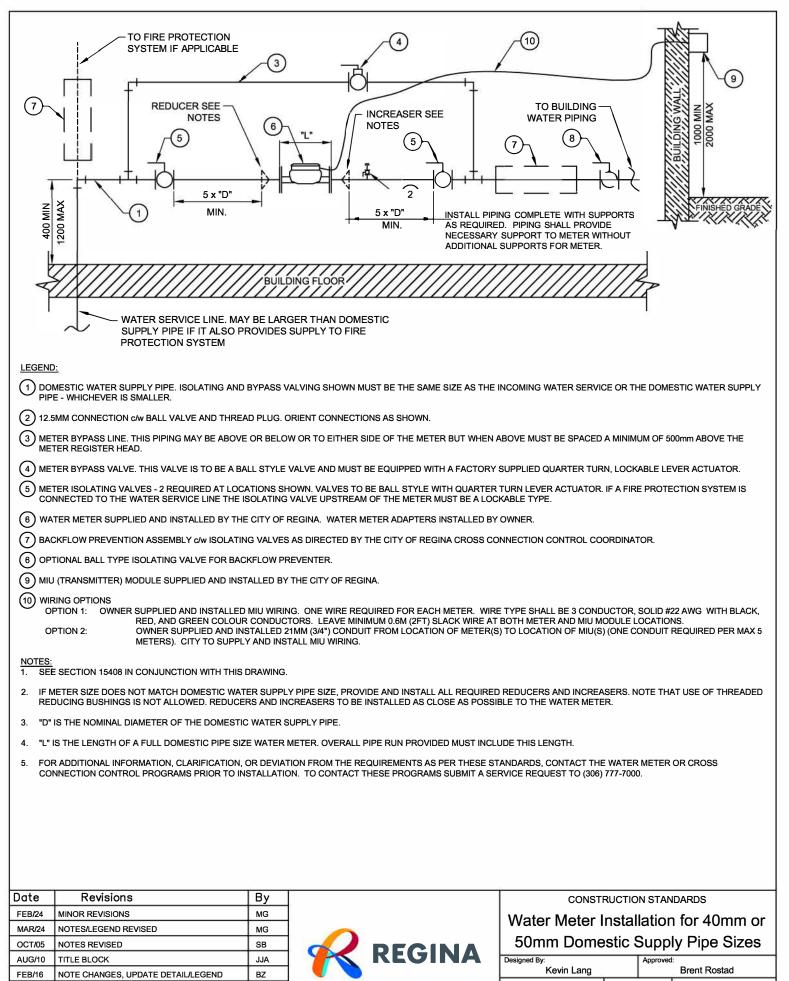
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| | olun Lo.u |

v-28.dwg





| 2 v 3 m 4 v 5 v 6 F 7 E 8 II NOTE 1. S 2. F v | SOLATION VALVE - REQUIRED IF SERV WATER METER SUPPLIED AND INSTALL MIU (TRANSMITTER) MODULE SUPPLIE WIRING OPTIONS OPTION 1: OWNER SUPPLIED AND I WIRE AT BOTH MET OPTION 2: OWNER SUPPLIED AND I INSTALL MIU WIRING WATER METER ADAPTERS INSTALLED FACTORY LOCKABLE BALL VALVE. SAN REGINA. BACKFLOW PREVENTION ASSEMBLY IF SOLATING BALL VALVE TO BE THE SAN SEE SPECIFICATION SECTION 15408 IN FOR ADDITIONAL INFORMATION, CLAR | ABLE | MIN. 5 BUILDING FLOOR BUILDING FLOOR BUILDING FLOOR BUILDING FLOOR BUILDING FLOOR BUILDING FLOOR BUILDING FLOOR BUILDING FLOOR FROM LOOK MUST BE THE THE CITY OF REGINA. INSTALLED BY THE CITY OF REGINA. LED MIU WIRING. ONE WIRE REQUIRED FOR MIU MODULE LOCATION. LED CONDUIT FROM LOCATION OF METER NER. AS INDIVIDUAL SERVICE LINE. LOCK WILL RECTED BY THE CITY OF REGINA CROSS OF AS THE SERVICE LINE. | OR EACH METER. LEAN R(S) TO LOCATION OF M BE SUPPLIED AND INS ⁻ CONNECTION CONTROL | VE MINIMUM 11U(S). CITY TALLED BY COORDINA | I 0.6M (2FT) SLACK TO SUPPLY AND THE CITY OF ATOR. CONTACT THE |
|---|--|-----------|---|--|---|--|
| Date FEB/24 | Revisions MINOR REVISIONS | Ву мс | - | Water Meter/ | | w Preventer |
| MAR/24 | NOTES/LEGEND REVISED | MG | | Installatio for Multi Mete | on Requi | rements |
| OCT/05 | | SB | K REGINA | | | |
| AUG/10 | | JJA P7 | | Designed By: Kevin Lang | Approved | d: Brent Rostad |
| FEB/16 | NOTE CHANGES, UPDATE DETAIL/LEGEND | BZ | | | cale | ř – |
| OCT/22 | REQUIREMENTS REVISION | MG | | | cale NTS | W-31 |
| | | - | • | Feb. 24, 2016 | NTS | |
| OCT/23 | METER TYPE AND MINOR REVISIONS | MG | | Digital File: Stdw-31.dwg | | |
| | <u>.</u> | | A | Staw-orldwy | | |



OCT/22

OCT/23

REQUIREMENTS REVISION

METER TYPE AND MINOR REVISIONS

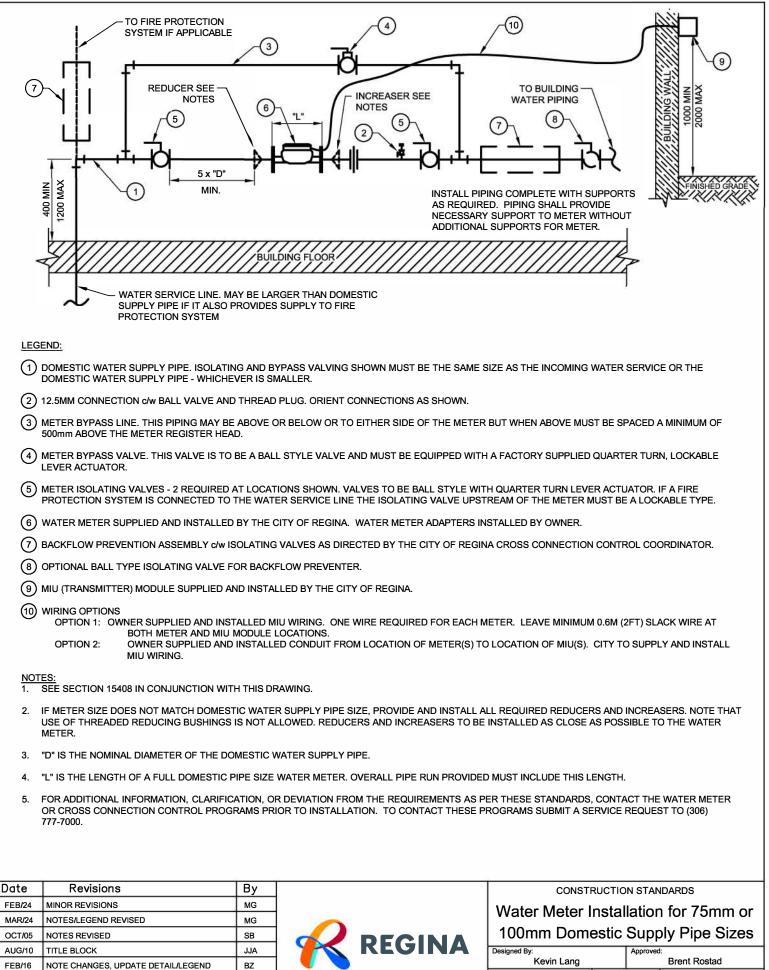
MG

MG

| Date | |
|---------------|---------------|
| | Apr. 05, 2017 |
| Digital File: | Stdw-32 dwg |

NTS

W-32



OCT/22

OCT/23

REQUIREMENTS REVISION

METER TYPE AND MINOR REVISIONS

MG

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| | Kevin Lang | |
|-------------|---------------|--|
| Date | | |
| | Apr. 05, 2017 | |
| Digital Fil | e: | |

| Kevin Lang | | Approved | Brent Rostad |
|---------------|--------------|----------|--------------|
| Apr. 05, 2017 | Scale NTS | | W-33 |
| Stdw-33 dwg | | | |

| 2 EXI: 3 EXI: 4 EXI: 5 EXI: 6 NEV 7 NEV 8 WA 9 BAC 10 BLC 11 MIU 12 MIUC 10 BLC 11 SEE 2. IF M REI 3. "D" 4. "L" I 5. APP AFT 6. FOF | STING SHUTOFF VALVE. STING WATER METER. STING BACKFLOW PREVENTION ASSEMBLY. STING MIU WIRING. STING MIU (TRANSMITTER). WIRRIGATION SUPPLY CONNECTION. THIS CO ALLOW THE PREFERRED CONNECTION SHOWN N LOCKABLE SHUTOFF VALVE - MUST BE THE S TER METER SUPPLIED AND INSTALLED BY THE CKFLOW PREVENTION ASSEMBLY c/w ISOLATIN DWOFF VALVE MUST BE INSTALLED ON THE DO (TRANSMITTER) MODULE SUPPLIED AND INST WIRING SUPPLIED AND INSTALLED BY OWNER CATIONS. SECTION 15408 IN CONJUNCTION WITH THIS I METER SIZE DOES NOT MATCH DOMESTIC WAT DUCING BUSHINGS IS NOT ALLOWED. REDUCEI IS THE LENGTH OF A FULL DOMESTIC PIPE SIZ PLICATION FOR SUMMER WATER SERVICE MAN TER THE APPLICATION PROCESS. R ADDITIONAL INFORMATION, CLARIFICATION, G | NNECTIO ATER SEF NNECTIO A SAME SIZI CITY OF G VALVES WNSTRE ALLED BY ALLED B | INSTALL P AS REQUINING FLOOR INSTALL P AS REQUINING ADDITION DING FLOOR RVICE RVICE INSTALL P AS REQUINING RVICE INSTALL P AS REQUINING RVICE INSTALL P AS REQUINING RVICE INSTALL P INSTALL P AS REQUINING INSTALL P INSTALL P INSTAL | OWNER. NNECTION CONTROL COORDINATO 0.6M (24") SLACK WIRE AT BOTH MI REDUCERS AND INCREASERS. NOT BLE TO THE WATER METER. JDE THIS LENGTH. R BY CALLING (306) 777-7000. THE W ANDARDS, CONTACT THE WATER M | R. ETER AND MIU MODULE TE THAT USE OF THREADED |
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| Date | Revisions | Ву | | CONSTRUCTION | STANDARDS |
| MAR/24 | NOTES/LEGEND REVISED | MG | | Mator Motor In | etallation for |
| MAR/10 | NOTES REVISED | DM | | Water Meter In | stallation for |
| AUG/10 | TITLE BLOCK | JJA | | Summer Service I | rrigation Meters |
| FEB/17 | NOTE CHANGES, UPDATE DETAIL/LEGEND | TY | KAREGINA | | pproved: |
| OCT/22 | REQUIREMENTS REVISION | MG | | Kevin Lang | Brent Rostad |
| OCT/22 | METER TYPE AND MINOR REVISIONS | MG | | Date Scale | W-34 |
| FEB/24 | DRAWING REVISED | MG | - | Feb 24, 2017 NTS | VV-34 |
| LU/24 | | 1 10/0 | 1 | Digital File: | |

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FEB/24

MG

| | 1 00 2 1, 2011 |
|---------------|----------------|
| Digital File: | Stdw-34.dwg |

