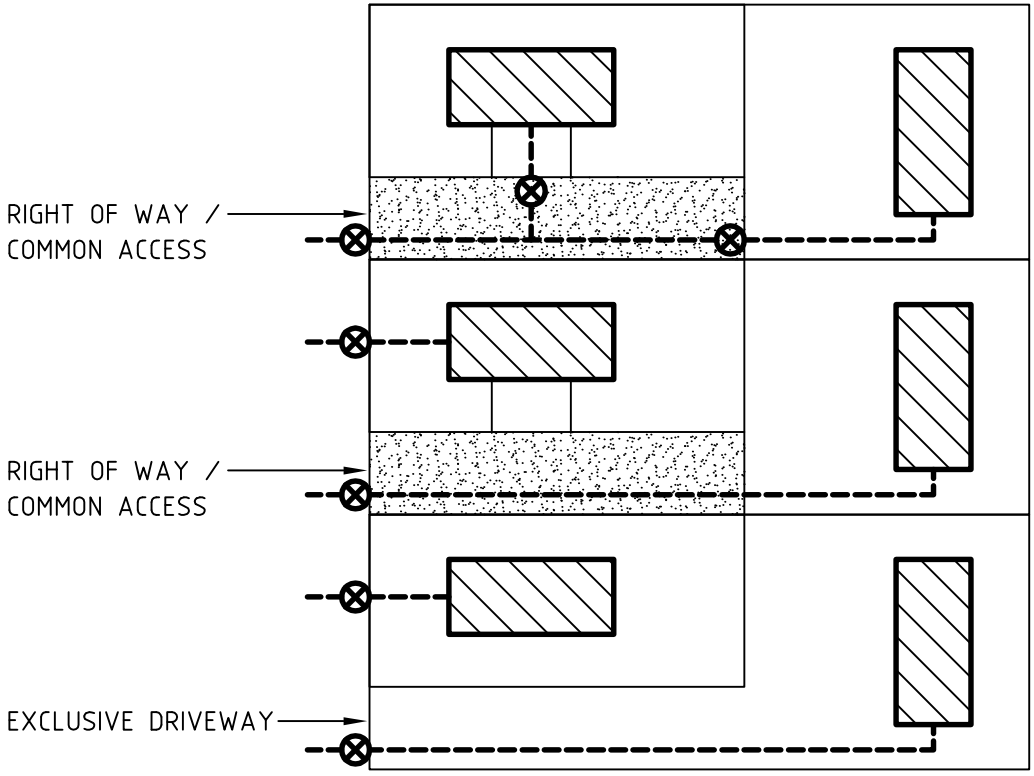


NOT APPROVED

NOT APPROVED

NOT APPROVED



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⊗ DENOTES POSITION OF WATER METER ASSEMBLY

**NELSON
CITY
COUNCIL**

**WATER CONNECTION POLICY
SUBDIVISION & CROSS LEASE**

ASSET MANAGEMENT DIVISION

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MANAGER INFRASTRUCTURAL ASSETS

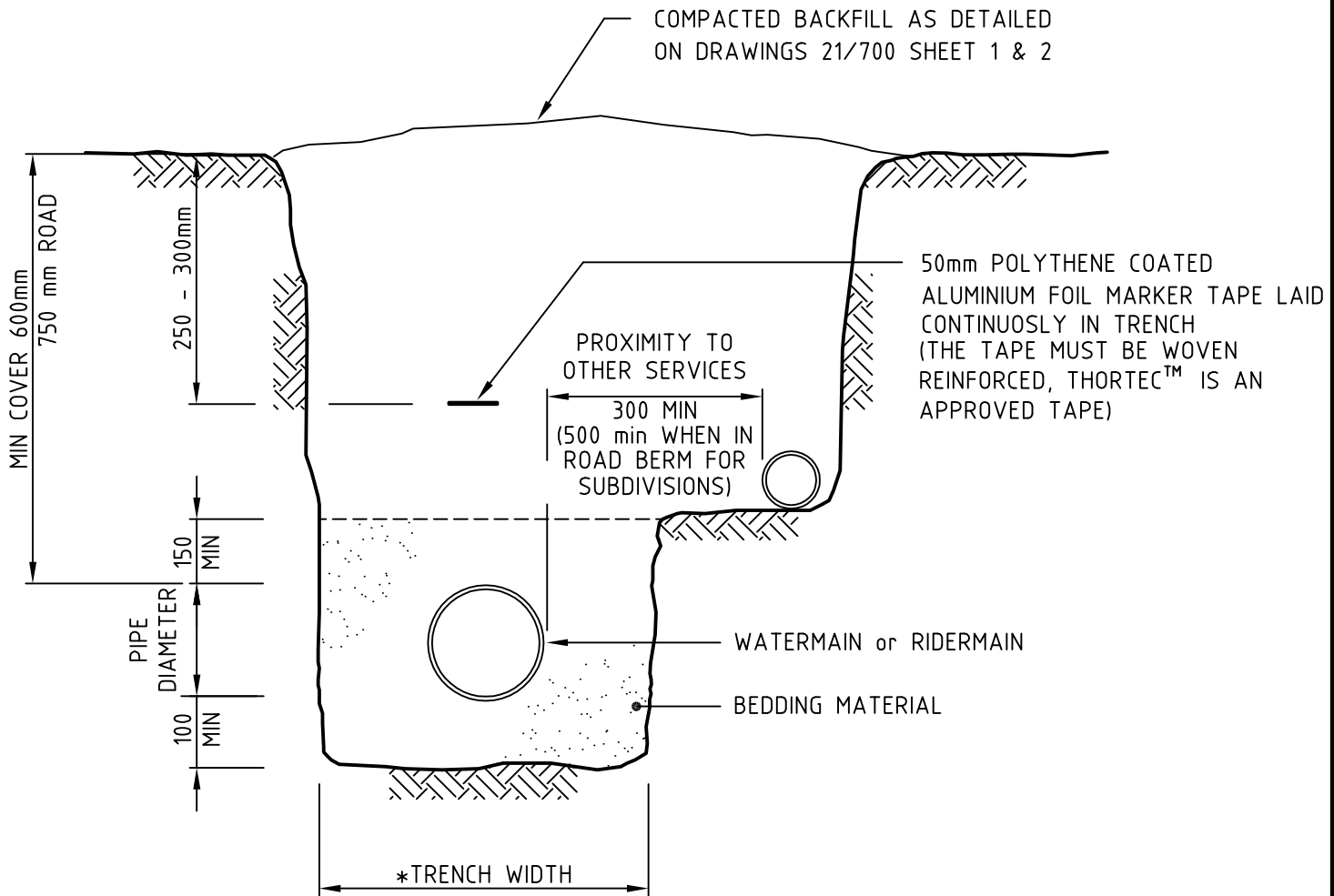
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SHEET 1



***TRENCH WIDTH**

NOMINAL DIAMETER DN (mm)	MINIMUM TRENCH SIDE CLEARANCE "lc" TO AS/NZS 2566	* MAXIMUM
UP TO 150	100	600
200 - 250	150	600
300 - 375	200	775

THE TRENCH WIDTH SHALL BE THE MINIMUM NECESSARY TO ADEQUATELY AND SAFELY LAY THE PIPE AND TO COMPACT THE SIDE SUPPORT ZONE

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COUNCIL**

WATER TRENCHING REQUIREMENT

ASSET MANAGEMENT DIVISION

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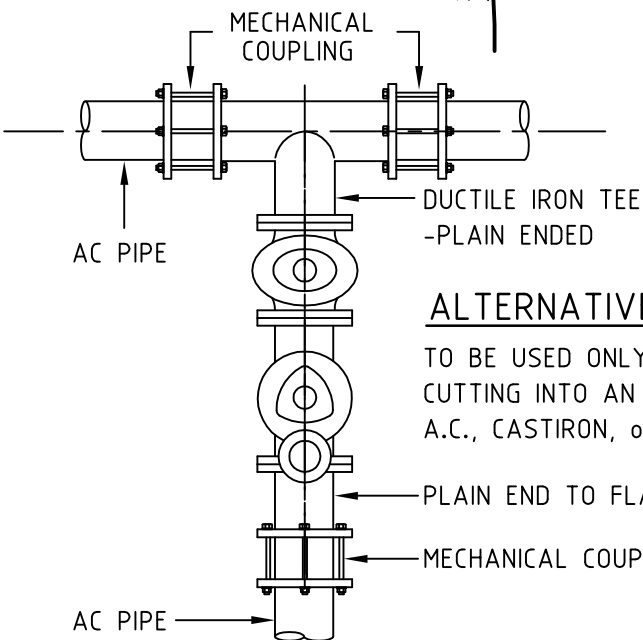
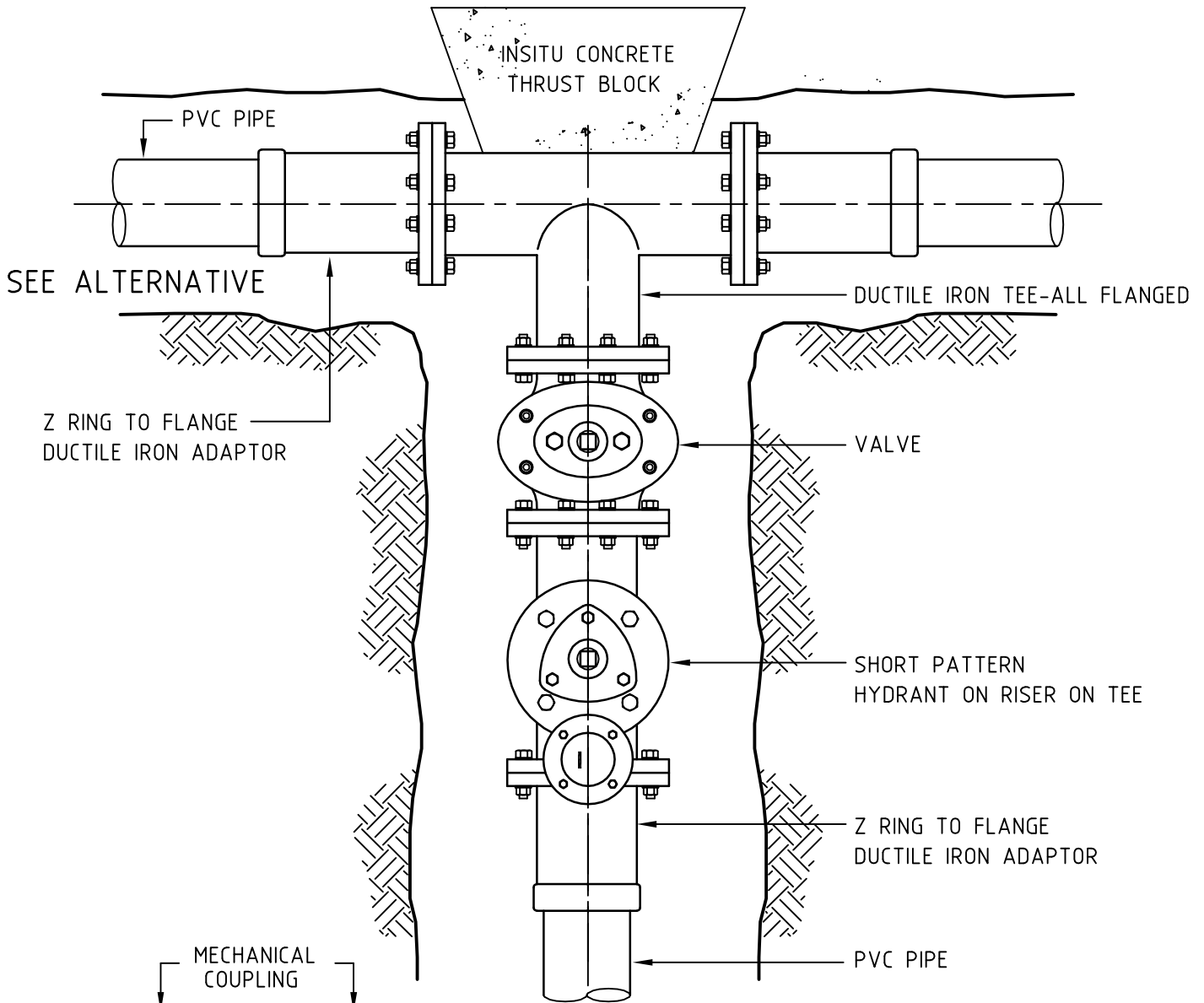
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SHEET 1



ALTERNATIVE

TO BE USED ONLY FOR CUTTING INTO AN EXISTING A.C., CASTIRON, or STEEL PIPE

ALL FITTINGS TO BS 10 TABLE E

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COUNCIL**

WATERMAIN TEE JUNCTION DETAIL

ASSET MANAGEMENT DIVISION

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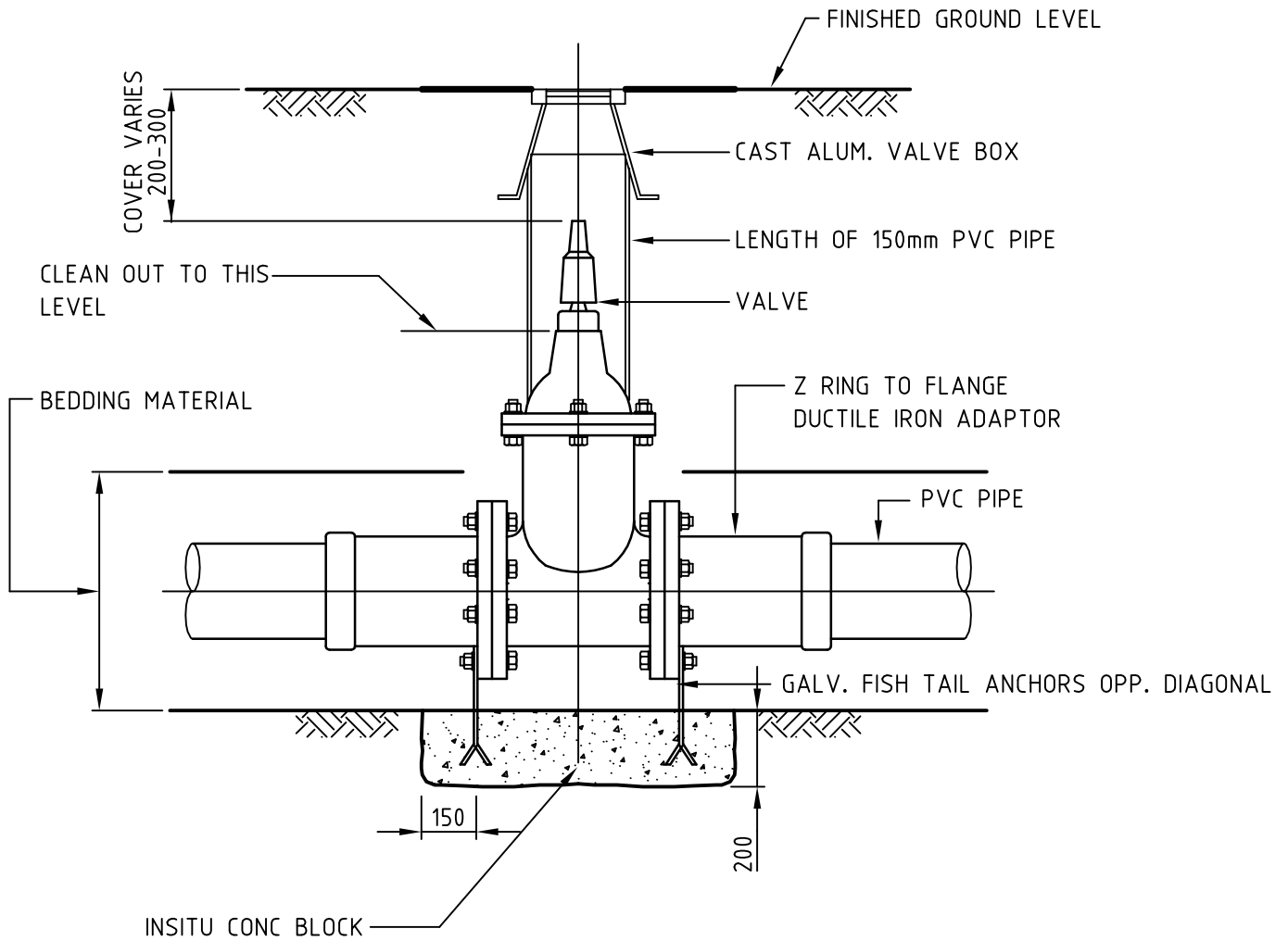
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21/402

SHEET 1



**NELSON
CITY
COUNCIL**

SLUICE VALVE INSTALLATION

ASSET MANAGEMENT DIVISION

APPROVED

MANAGER INFRASTRUCTURAL ASSETS

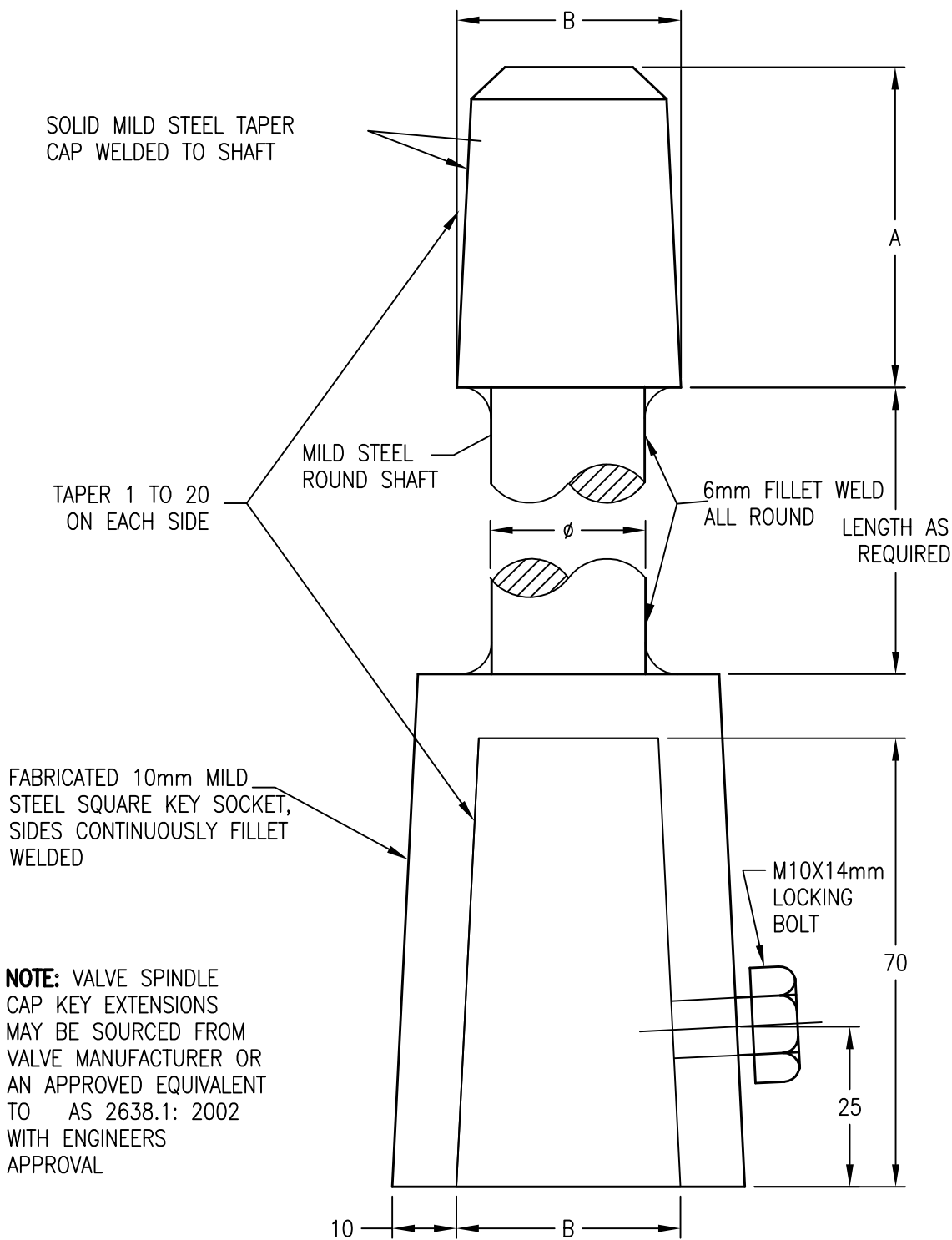
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SHEET 1



NOTE: VALVE SPINDLE CAP KEY EXTENSIONS MAY BE SOURCED FROM VALVE MANUFACTURER OR AN APPROVED EQUIVALENT TO AS 2638.1: 2002 WITH ENGINEERS APPROVAL

NOMINAL SIZE OF VALVE DN mm	φ mm	LENGTH OF SQUARE ON CAP (A) mm	SQUARE ON CAP AND KEY (B) mm
80-150	24	50	35
200-900	32	57	35

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COUNCIL**

SLUICE VALVE KEY CAP EXTENSION

ASSET MANAGEMENT DIVISION

APPROVED

MANAGER INFRASTRUCTURAL ASSETS

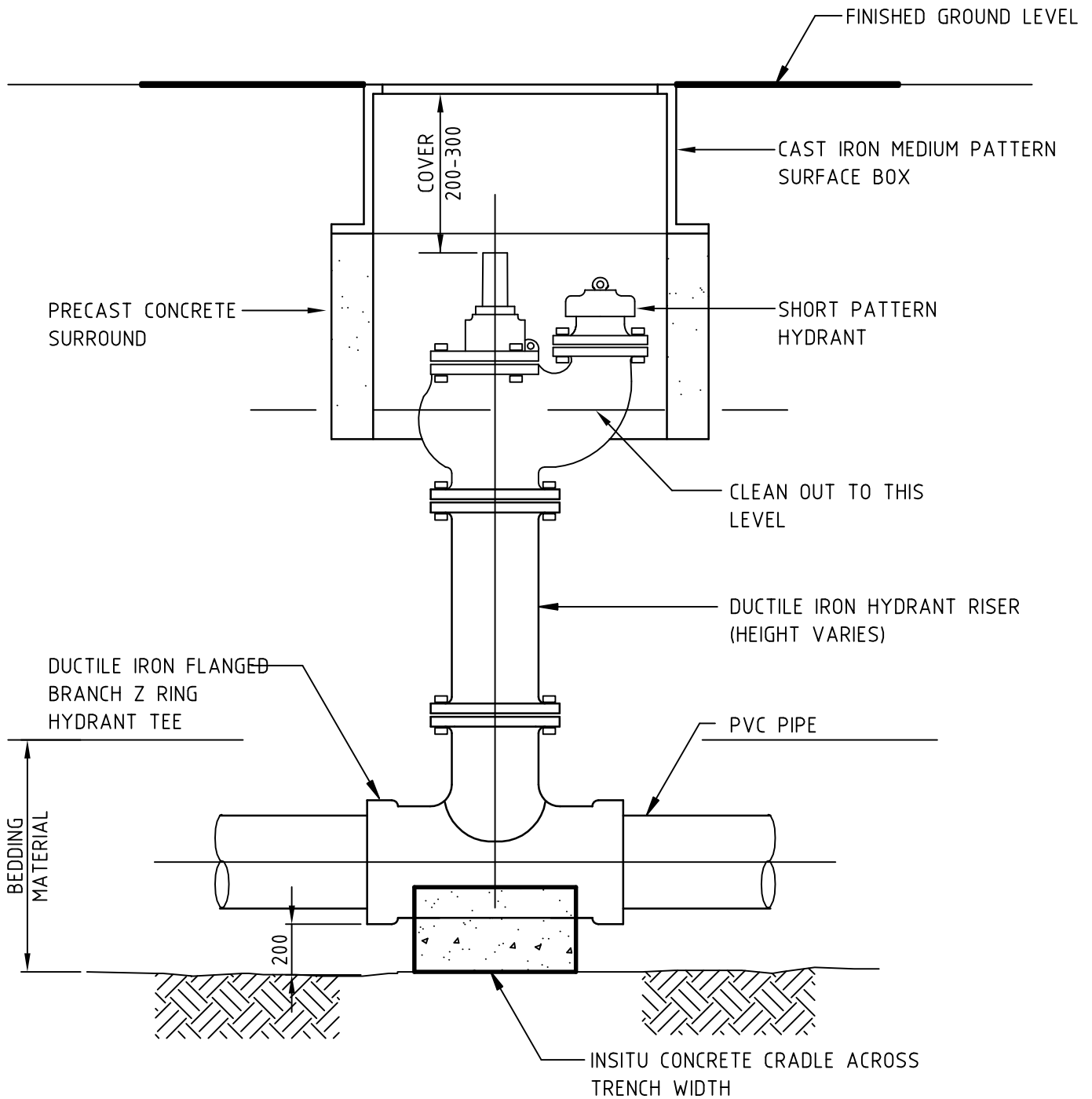
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SHEET 2



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CITY
COUNCIL**

FIRE HYDRANT INSTALLATION

ASSET MANAGEMENT DIVISION

APPROVED

MANAGER INFRASTRUCTURAL ASSETS

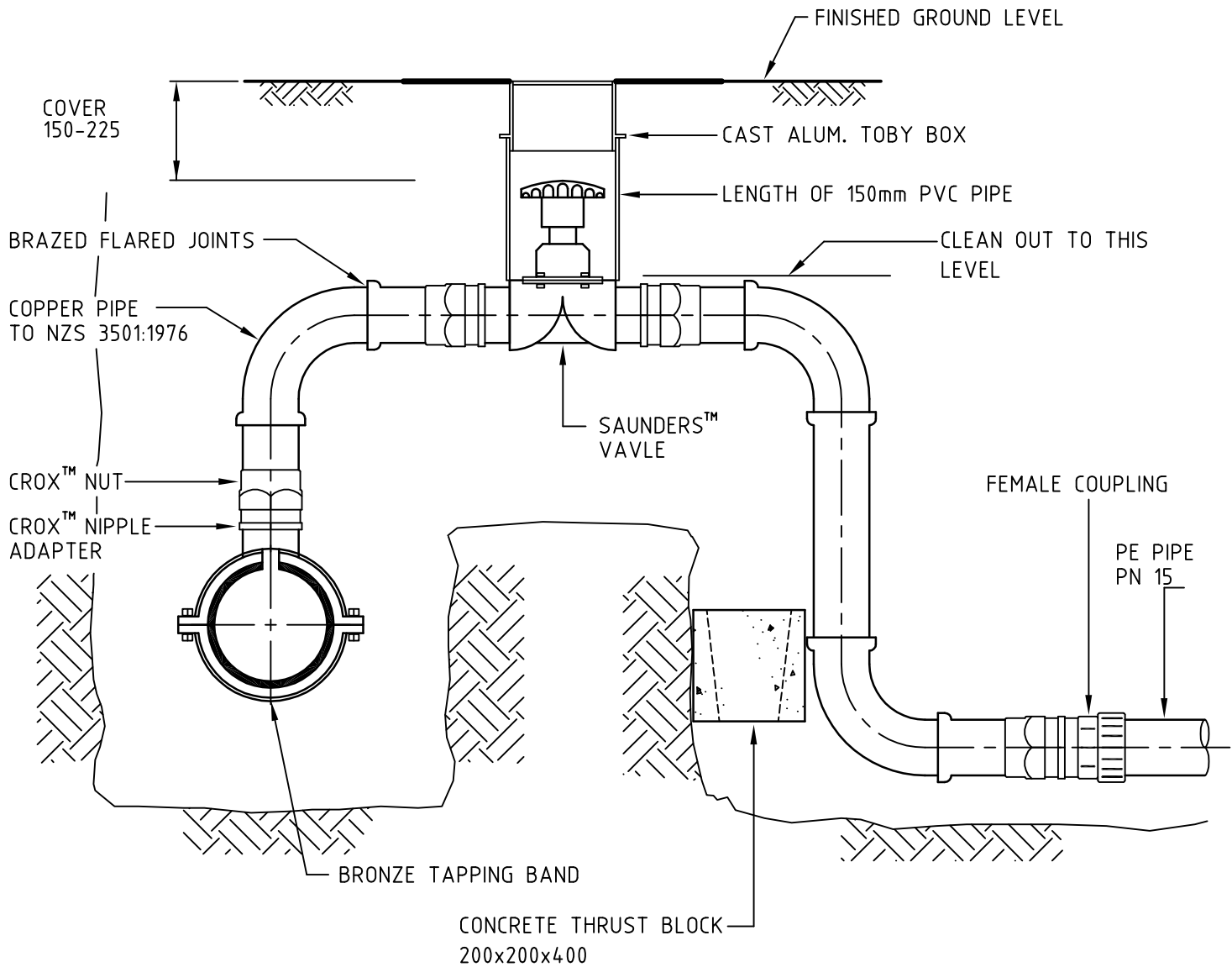
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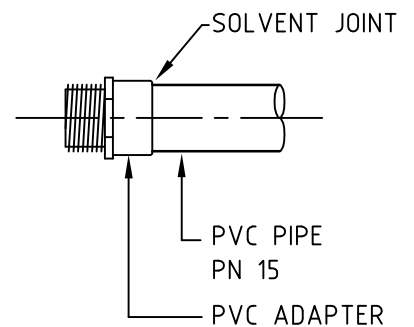
SHEET 1



NOTE:

THIS DIAGRAM APPLIES TO THE SITUATION WHERE THE MAIN IS LOCATED IN THE FOOTPATH OR BERM
 WHERE THE MAIN IS LOCATED IN THE ROAD THE LAYOUT SHALL BE MODIFIED SO THAT THE SAUNDERS VALVE IS LOCATED IN THE FOOTPATH OR BERM

ALTERNATIVE



**NELSON
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RIDERMAIN CONNECTION DETAIL

ASSET MANAGEMENT DIVISION

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MANAGER INFRASTRUCTURAL ASSETS

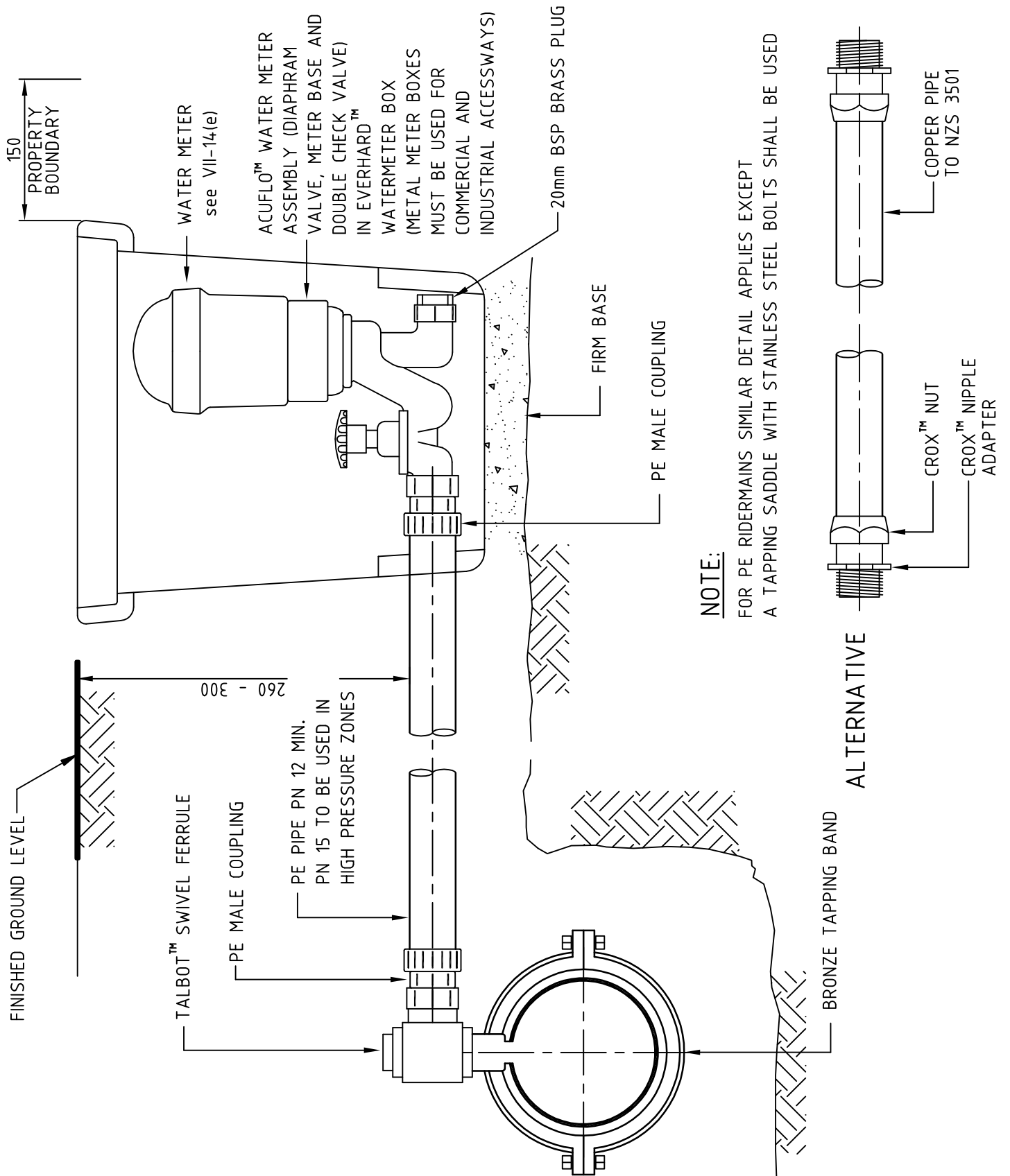
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SHEET 1



**NELSON
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**WATERMAIN LATERAL FOR PROPERTY
CONNECTION**

ASSET MANAGEMENT DIVISION

APPROVED

MANAGER INFRASTRUCTURAL ASSETS

Jan. 2003

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PLAN No.

21/406

SHEET 1

FLANGES FOR PIPES, VALVES & FITTINGS TO AS 2129 - 1978

SURFACE PREPARATION

WIRE BRUSH LOOSE DIRT AND RUST FROM THE FLANGE AND ADJACENT PIPE, IF APPROPRIATE AND 100mm ONTO ANY SHOP COATING. ENSURE ALL SURFACES ARE CLEAN
DENSO PRIMER CAN BE APPLIED TO MOIST OR DAMP SURFACES, BUT VERY WET SURFACES SHOULD BE DRIED

PRIMING

APPLY DENSO PRIMER TO ALL METAL SURFACES WHERE POSSIBLE, PROTECT NUTS AND BOLTS BY DIPPING IN DENSO PRIMER BEFORE ASSEMBLY

FILLING

FLANGES TO TABLES A & D MOULD DENSO MASTIC OVER THE HEADS OF BOLTS, NUTS AND SCREW THREADS WITH A MINIMUM COVERAGE OF 5mm TAPER ONTO FLANGE FACE TO PROVIDE A SUITABLE CONTOUR FOR TAPE WRAPPING FLANGES TO TABLES E DUE TO THE INCREASED NUMBER OF BOLTS IN THIS CASE, IT IS NECESSARY TO USE DENSO MASTIC BETWEEN INDIVIDUAL BOLTS AND NUTS TO PROVIDE A SUITABLE CONTOUR FOR TAPING

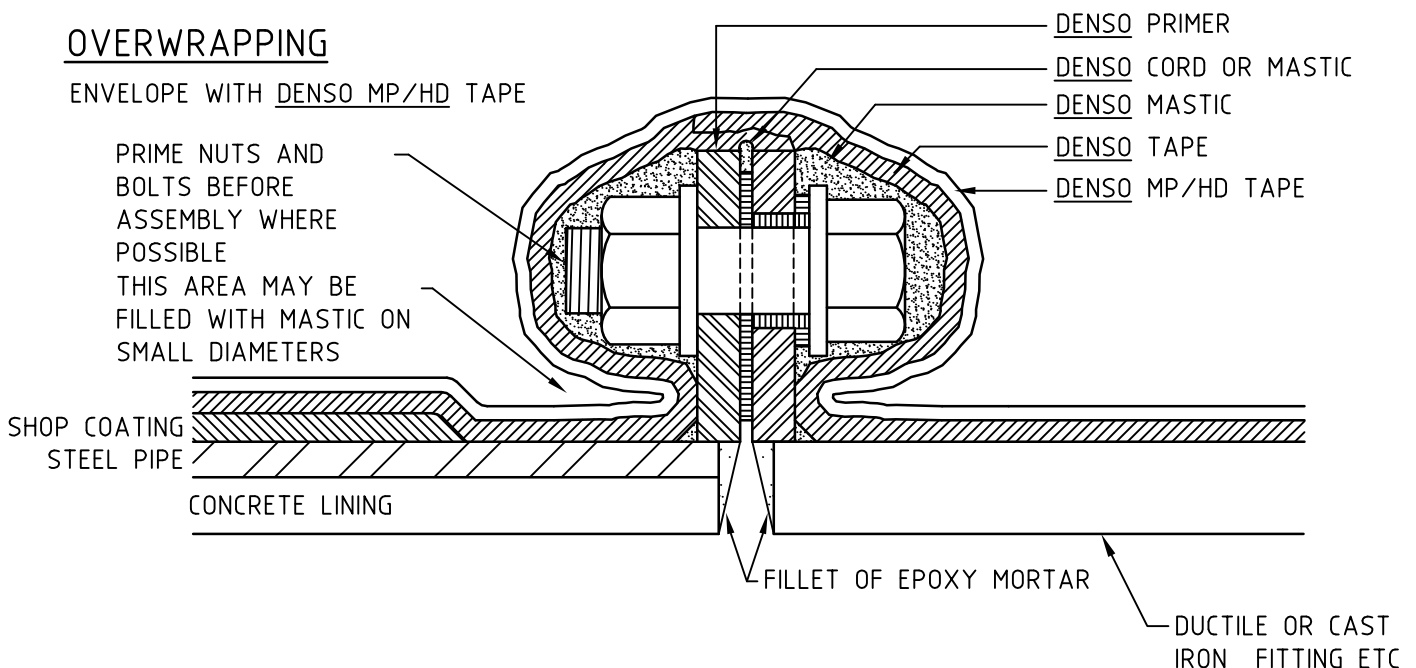
WRAPPING

APPLY ONE COMPLETE TURN OF DENSO TAPE CIRCUMFERENTIALLY AROUND FLANGE WITH ONE SIDE AGAINST THE EDGE OF THE THE FLANGE. OVERLAP ABOUT 80mm. MOULD THE OVERHANGING TAPE OVER THE MASTIC. APPLY A SECOND TURN OF TAPE TO PROVIDE A DOUBLE THICKNESS AROUND THE FLANGE AND COVER THE OPPOSITE SIDE FOR FLANGES ON SHOP COATED LINES, SPIRALLY WRAP DENSO TAPE FROM THE PROTECTED FLANGE AND 100mm ONTO THE SHOP COATING ON EITHER SIDE.

OVERWRAPPING

ENVELOPE WITH DENSO MP/HD TAPE

PRIME NUTS AND BOLTS BEFORE ASSEMBLY WHERE POSSIBLE
THIS AREA MAY BE FILLED WITH MASTIC ON SMALL DIAMETERS



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CORROSION PROTECTION FOR FLANGES

ASSET MANAGEMENT DIVISION

APPROVED

MANAGER INFRASTRUCTURAL ASSETS

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PLAN No.

21/407

SHEET 1

All Unrestrained Mechanical Couplings shall be wrapped as detailed below where materials other than 316 stainless steel and coatings to AS/NZS 4158 are used.

SURFACE PREPARATION

WIRE BRUSH LOOSE DIRT AND LOOSE RUST FROM THE JOINT AND ADJACENT PIPE.

DENSO PRIMER CAN BE APPLIED TO MOIST OR DAMP SURFACES, BUT VERY WET SURFACES SHOULD BE DRIED

PRIMING

APPLY DENSO PRIMER TO ALL METAL SURFACES

WHERE POSSIBLE, PROTECT NUTS AND BOLTS BY DIPPING IN DENSO PRIMER BEFORE ASSEMBLY

FILLING

FILL BETWEEN BOLTS AND SLEEVE, AND BOLTS TO TOP FLANGES WITH DENSO MASTIC

COVER BOLT HEADS, NUTS AND ANY PROTRUDING THREAD WITH DENSO MASTIC

WRAPPING

WHERE A SERVICE TAPPING MAY BE INCLUDED WITH THE UNRESTRAINED MECHANICAL COUPLING, APPLY ONE COMPLETE TURN OF DENSO TAPE AROUND THE JOINT LAPPING BOTH ENDS ONTO THE SERVICE PIPE.

APPLY DENSO TAPE AROUND ONE END OF JOINT WITH AN END LAP OF 80mm. MOULD THE TAPE FROM THE HIGHEST POINT ON THE FLANGE WORKING DOWN TO EXCLUDE AIR BUBBLES.

APPLY ANOTHER COMPLETE TURN OF TAPE SIMILARLY WITH MINIMUM SIDE LAP OF 20mm.

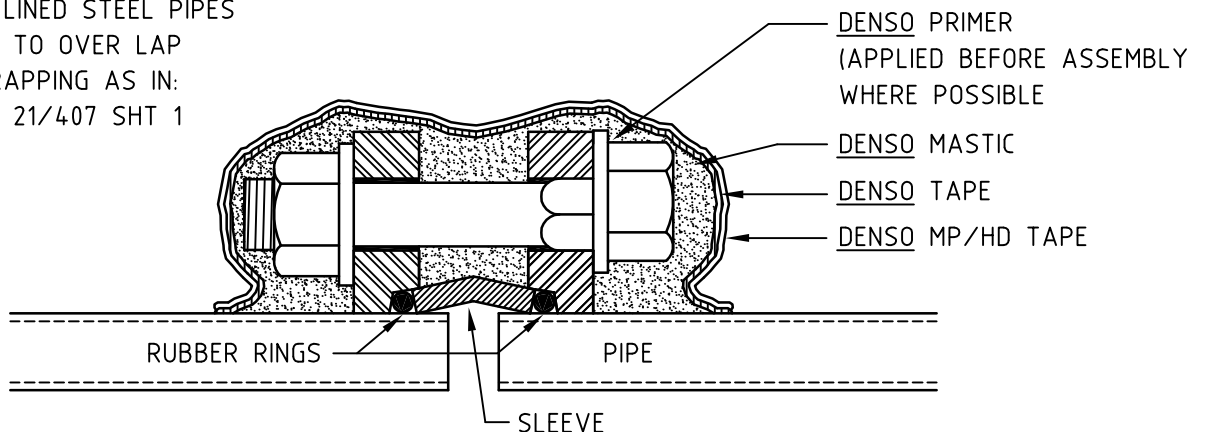
MOULD THE TAPE AROUND THE MASTIC COVERED BOLT HEADS, E.T.C.

OVERWRAPPING

ENVELOPE WITH DENSO MP/HD TAPE

NOTE

FOR CONCRETE LINED STEEL PIPES
DENSO SYSTEM TO OVER LAP
ONTO SHOP WRAPPING AS IN:
FLANGE DETAIL 21/407 SHT 1



**NELSON
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CORROSION PROTECTION FOR UNRESTRAINED MECHANICAL COUPLINGS

ASSET MANAGEMENT DIVISION

APPROVED

MANAGER INFRASTRUCTURAL ASSETS

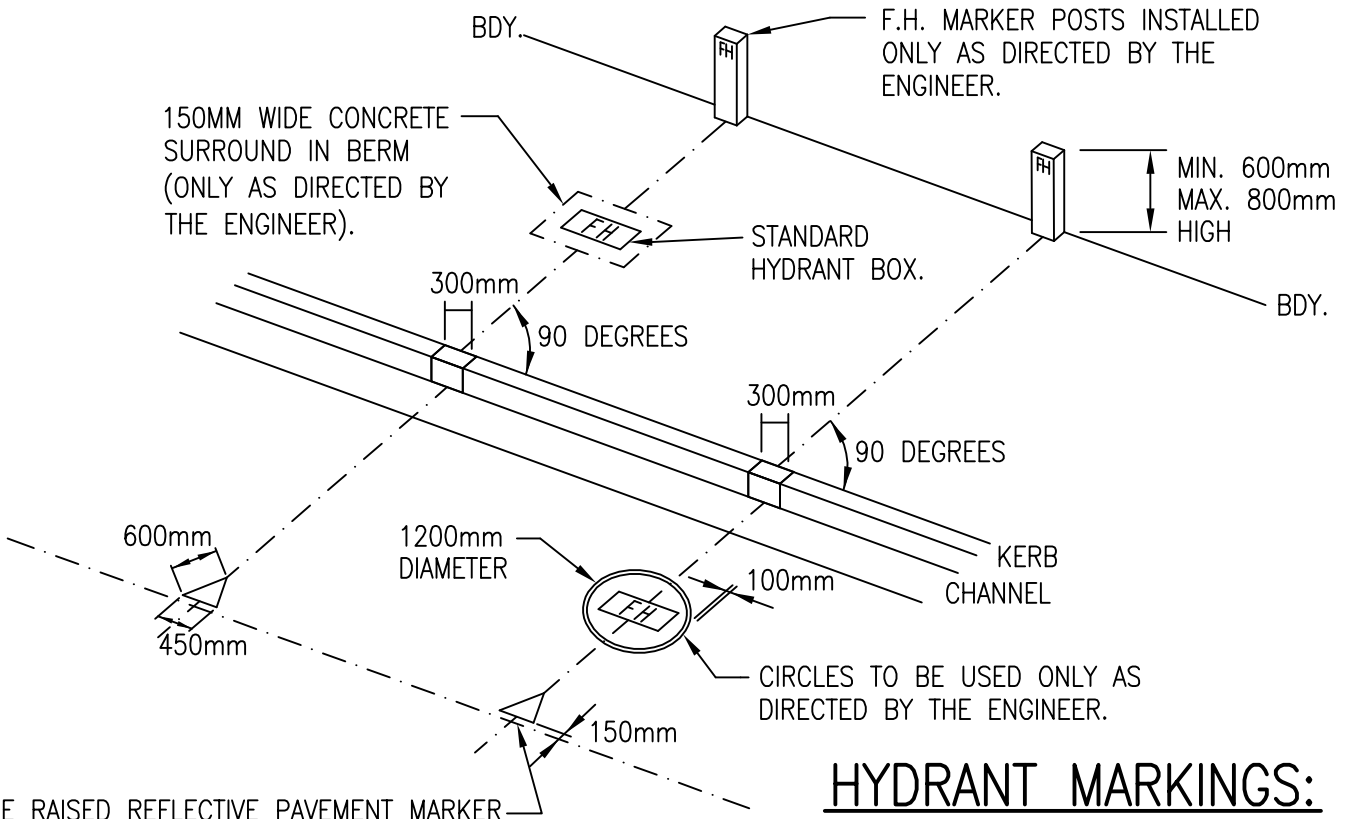
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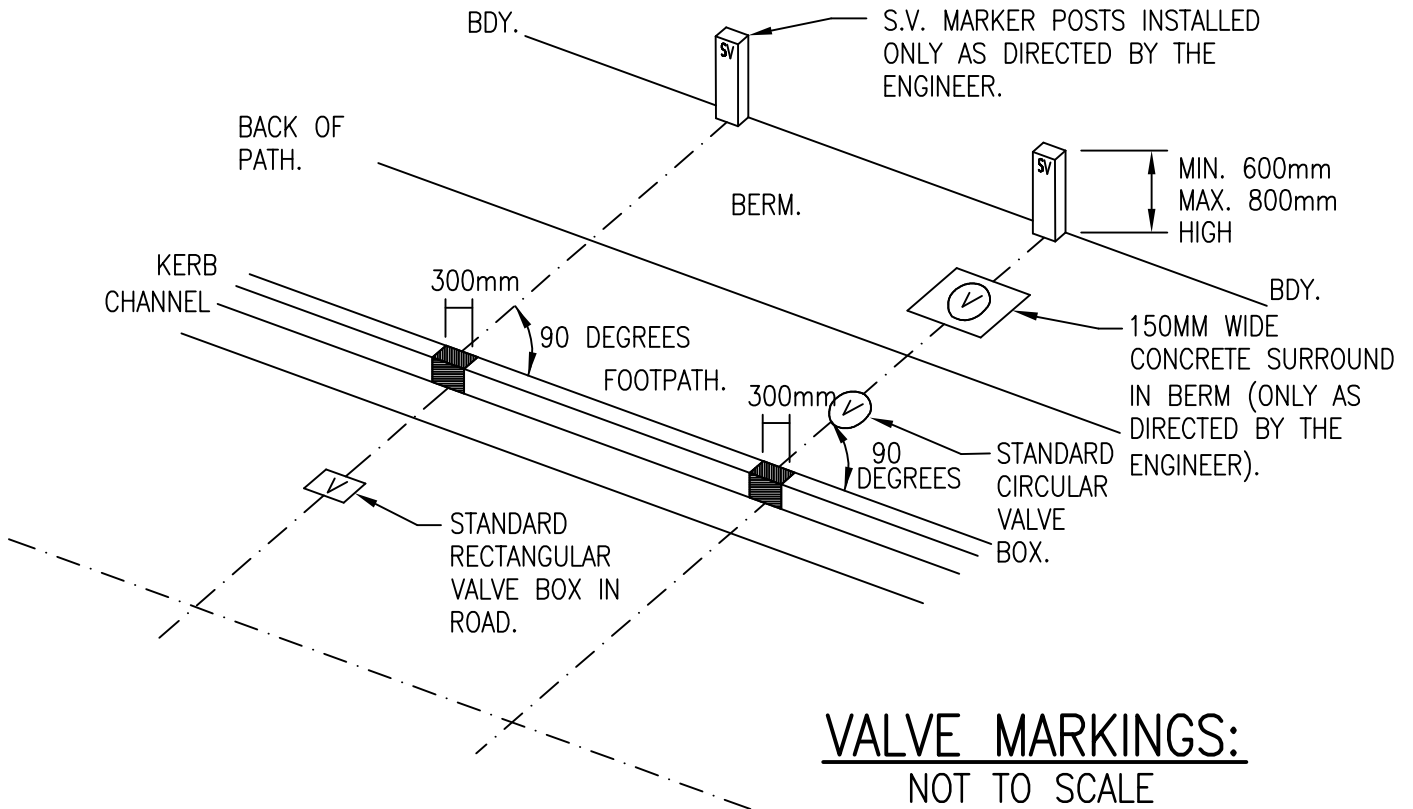
21/407

SHEET 2



HYDRANT MARKINGS:
NOT TO SCALE

BLUE RAISED REFLECTIVE PAVEMENT MARKER AT OR CLOSE TO, AND ON THE APPROPRIATE SIDE OF, THE CENTRE OF THE ROADWAY AT OR NEAR THE BASE OF THE YELLOW TRIANGLE MARKER.



VALVE MARKINGS:
NOT TO SCALE

**NELSON
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STANDARD VALVE & HYDRANT ROAD MARKINGS

ASSET MANAGEMENT DIVISION

APPROVED

MANAGER INFRASTRUCTURAL ASSETS

Jan. 2003



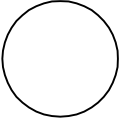

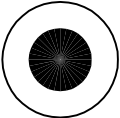






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21/408

SHEET 1

VALVE CODING:

	YELLOW		RED
	LOW LEVEL		AIR VALVE
	HIGH LEVEL		PRESSURE REDUCING VALVE
	SHUT		NON RETURN VALVE
	BYPASS		SCOUR VALVE
	LEFT HAND VALVE (ie. ANTICLOCKWISE TO OPEN)		

NOTES:

1. PAINT USED FOR ALL ROAD MARKINGS SHALL BE NRB "ROAD MARKING PAINT" (YELLOW – NRB M/7-Y) AND PLASTI-KOTE INDUSTRIAL TRAFFIC PAINT "6639N RED" OR EQUIVALENT.
2. ALL HYDRANT KERB MARKINGS SHALL BE YELLOW AND ALL VALVE KERB MARKINGS SHALL BE RED.

**NELSON
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COUNCIL**

**STANDARD VALVE & HYDRANT ROAD
MARKINGS**

ASSET MANAGEMENT DIVISION
 APPROVED 

 MANAGER INFRASTRUCTURAL ASSETS Jan. 2003

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21/408
 SHEET 2