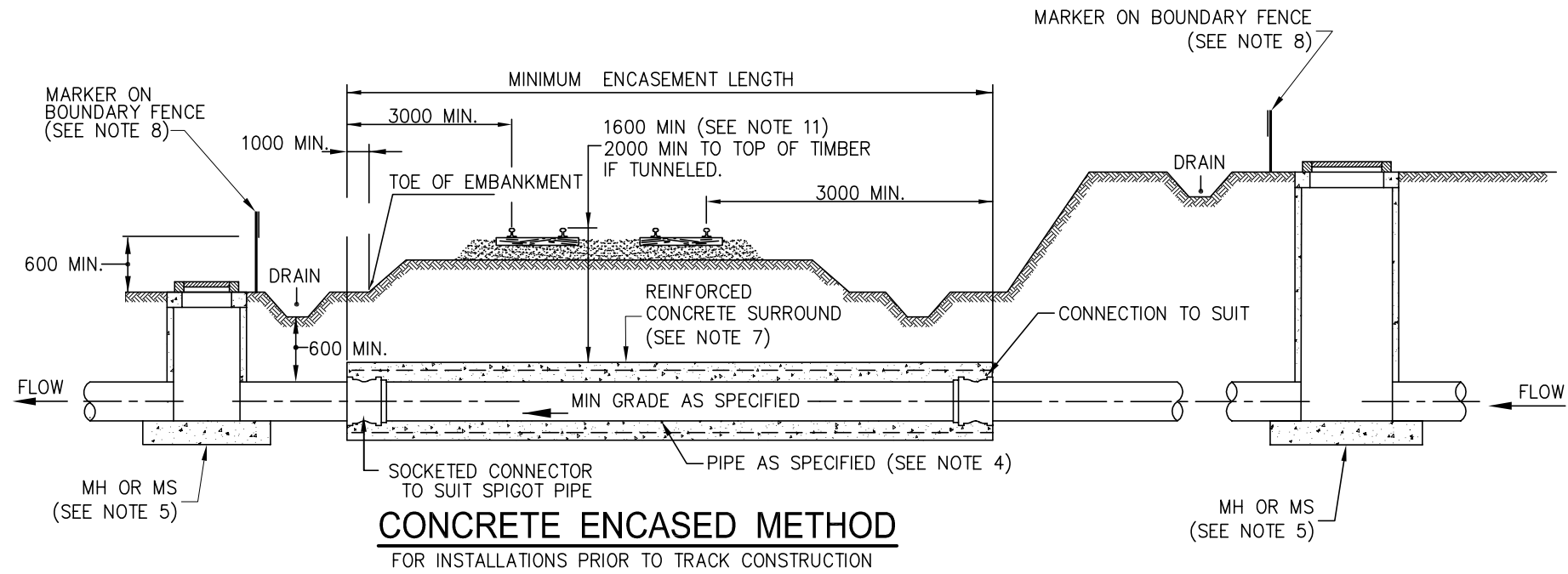


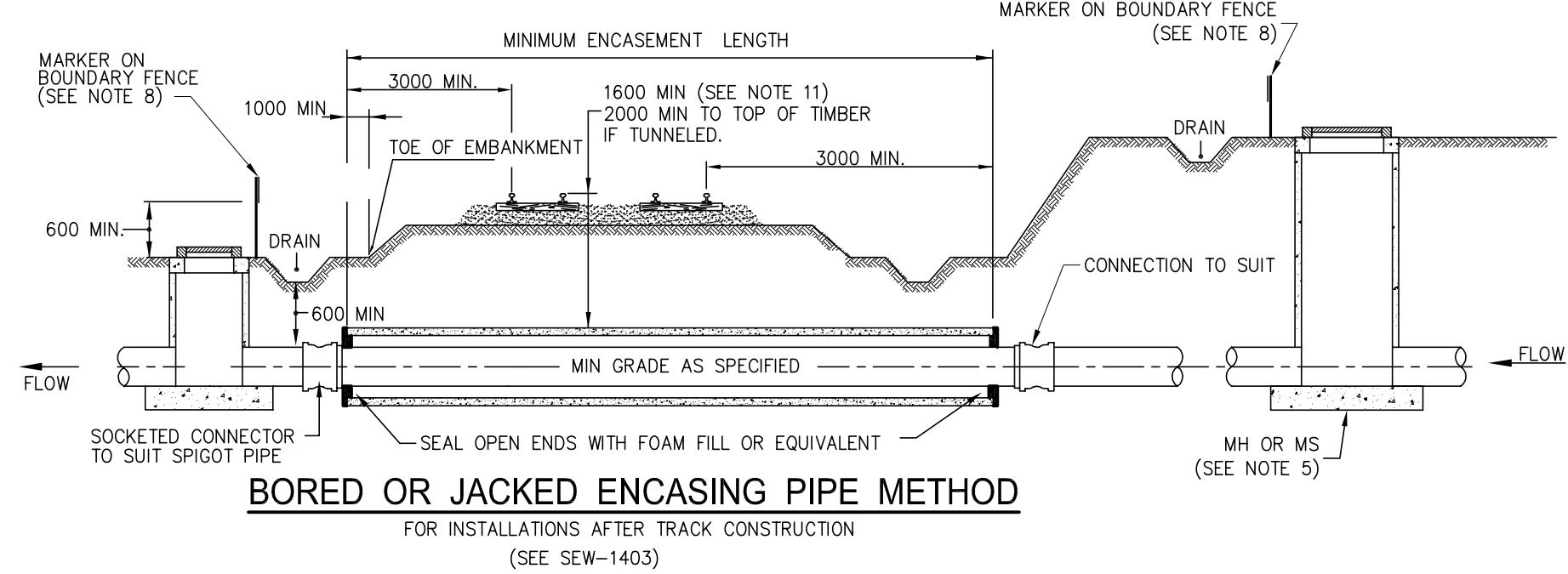
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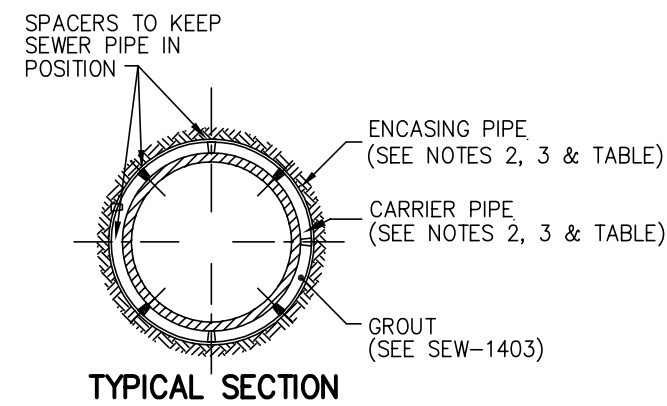
ISSUED 1st AUGUST 2002



CONCRETE ENCASED METHOD
FOR INSTALLATIONS PRIOR TO TRACK CONSTRUCTION



BORED OR JACKED ENCASEING PIPE METHOD
FOR INSTALLATIONS AFTER TRACK CONSTRUCTION
(SEE SEW-1403)



ENCASING PIPE & SEWER ARRANGEMENTS

BORED & JACKED ENCASEING/SEWER PIPE SIZES											
SEWER PIPE (DN)	100	150	225	300	375	400	500	550	650	800	
BORED ENCASEING PIPE MIN (DN)	300	375	425	500	575	600	700	750	850	1000	
JACKED ENCASEING PIPE (DN)	N/A					1200 MIN.					

NOTES:

- ALL DIMENSIONS IN MILLIMETRES.
- HORIZONTAL BORING**
ENCASING PIPE
- REINFORCED CONCRETE CLASS 4 BUTT JOINTED WITH STEEL LOCATING BAND OR MILD STEEL OR GRP PIPE
SEWER PIPE
- STEEL CEMENT LINED WITH FUSION BONDED PE COATING
- DI WITH POLYMERIC LINING CLASS K9
- PVC CLASS SN 8
- PE CLASS PN 12.5
- GRP CLASS SN 5000 MIN.
- JACKING**
ENCASING PIPE
- REINFORCED CONCRETE CLASS 4 BUTT JOINTED WITH STEEL LOCATING BAND OR GRP JACKING PIPE
SEWER PIPE
- STEEL CEMENT LINED WITH FUSION BONDED PE COATING
- DI WITH POLYMERIC LINING CLASS K9
- PVC CLASS SN 8
- PE CLASS PN 12.5
- GRP CLASS SN 5000 MIN.
- CONCRETE ENCASED**
- THE PIPE MATERIAL TO BE:
• STEEL WITH FBPE INTERNAL COATING
• PE CLASS PN 12.5
• PVC (SWJ) CLASS SN 8
• GRP CLASS SN 5000 MIN.
- NO SERVICE CONNECTIONS TO BE MADE TO ENCASED SECTION OF PIPELINE.
- ENCASEING AS SHOWN ON SEW-1205
- MH OR MS TO BE LOCATED AT LEAST 6000 FROM THE TOE OF EMBANKMENT OR TOP OF CUT.
- FOR DI MAINS, ALL FITTINGS TO BE FUSION BONDED COATED.
- SEWER PIPE <DN 150 CAN BE DIRECTIONALLY BORED USING PE PIPE.
- PLACE MARKERS ABOVE PIPELINE AT THE POINTS WHERE IT ENTERS AND LEAVES THE PROPERTY.
- PROVIDE CATHODIC PROTECTION AS DIRECTED BY RAILWAY AUTHORITY. PROVIDE ELECTRICAL CONTINUITY AND INSULATION AS SPECIFIED IN DESIGN DRAWINGS.
- DESIGN TO BE IN ACCORDANCE WITH AS 4799 - RAILWAY REQUIREMENTS.
- MINIMUM COVER FOR ALL PIPELINES BELOW RAILWAY LINES:
- NOT LESS THAN 1600 BELOW RAIL LEVEL
- NOT LESS THAN 600 BELOW FORMATION LEVEL ie THE GROUND LEVEL IMMEDIATELY BELOW THE RAILWAY BALLAST
- NOT LESS THAN 2000 BELOW RAIL LEVEL TO TOP OF TIMBER FOR TUNNELS.
- FOR ELECTRIFIED RAILWAY SYSTEMS PREFERENCE SHOULD BE GIVEN TO USE OF NON-METALLIC PIPES.

THIS DRAWING REPLACES 96-0180-06
BASED ON WSAW SEWERAGE SUPPLY CODE OF AUSTRALIA DRAWINGS (WSA-02)

Chg	Amendment -	Des		By G Rosser for Gen. Man. E&P 1/ 8/02 ENGINEERING & PROJECTS	SOUTH AUSTRALIAN WATER CORPORATION	SEWER CONSTRUCTION MANUAL	PAGE H3	2000	Not to Scale
Drn		Drn							
Ckd		Exm	GRR						
Unit Ldr.		Unit Ldr.							
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