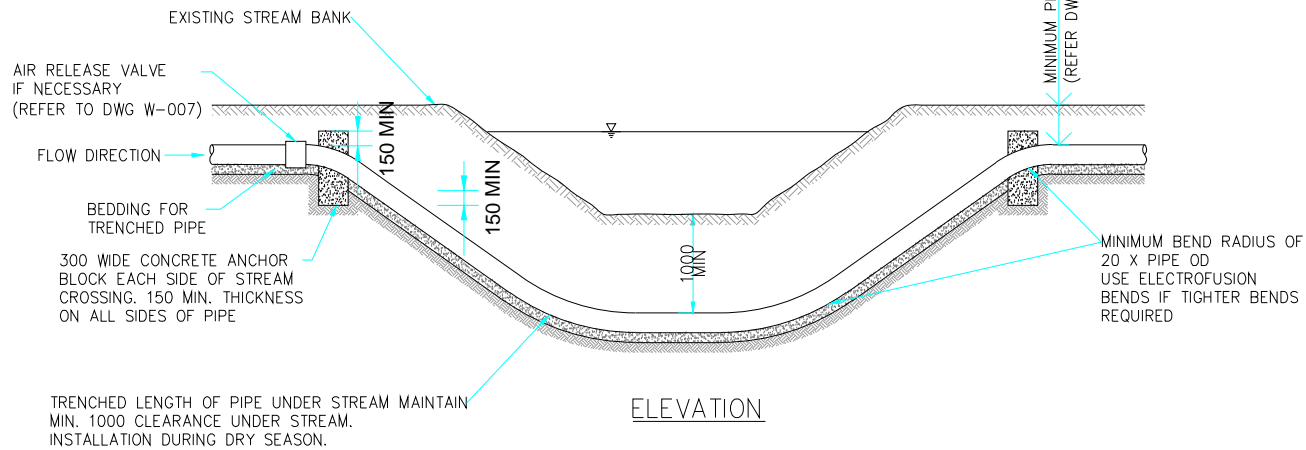
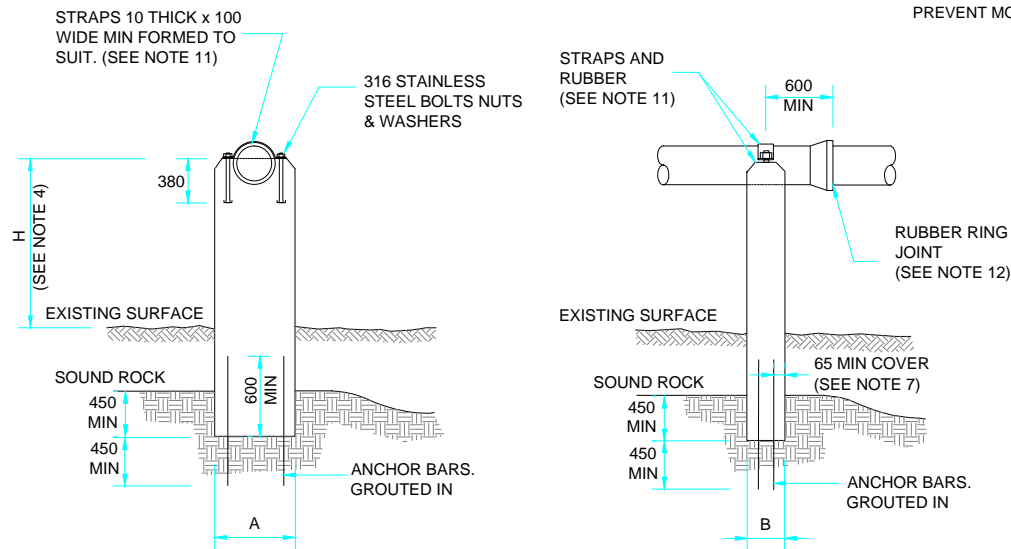


**AERIAL STREAM CROSSING**  
SCALE: N.T.S



**PE STREAM CROSSING DETAIL**

**ALTERNATIVE ABUTMENTS (IF REQUIRED)**  
- CONCRETE GABIONS  
- ROCK FEATURE WALLS



DIMENSIONS FOR PIERS (SEE NOTES 5 & 7)			
NOMINAL SIZE DN	PIER		HEIGHT 'H' MAX
	A	B	
150	450	300	2700
200	600	300	2100
250	600	300	2100
300	750	300	1800
375	750	450	1800
450	915	450	1800
500	915	450	1800
600	1070	450	1800
750	1200	450	1800

## NOTES:

- ALL DIMENSIONS IN MILLIMETERS.
- ONLY DI PIPE (K12) MAY BE USED FOR SPANNING SECTIONS BETWEEN ISOLATING VALVE AND CONNECTIONS TO BURIED MAIN WHERE MINIMUM COVER IS ACHIEVED.
- MINIMUM SIZE OF PIPE AS AQUEDUCT SHALL BE DN 150.
- UNLESS OTHERWISE SPECIFIED IN DESIGN DRAWINGS, NO ADDITIONAL PROTECTION/COATING TO BE PROVIDED EXCEPT TO MAKE AQUEDUCT PIPES MORE ENVIRONMENTALLY ACCEPTABLE.
- MAXIMUM HEIGHT "H" OF CONCRETE PIER:
  - SEE TABLE FOR MAXIMUM HEIGHT.
  - WHERE AQUEDUCT NEEDS TO BE HIGHER, SPECIFIC DESIGN CALCULATIONS TO BE CARRIED OUT.
- CONCRETE TO BE 32MPa. TYPE AND SIZE OF PIER TO BE SPECIFIED IN DESIGN DRAWINGS.
- REINFORCEMENT DETAILS TO BE AS SPECIFIED IN DESIGN DRAWINGS. COVER TO REINFORCEMENT 65 MIN.
- CYLINDRICAL PIERS (Ø 600 MIN) OR EQUIVALENT ARE AN ACCEPTABLE ALTERNATIVE.
- DEPTH OF PIERS IN SOIL TO BE SPECIFIED IN THE DESIGN DRAWINGS. BUT NOT LESS THAN 900.
- PIERS WITHOUT FOOTINGS TO BE CONSTRUCTED IN ACCORDANCE WITH METHODS SPECIFIED IN DESIGN DRAWINGS
- STRAPS TO BE GRADE 316 STAINLESS STEEL. PLACE 3 THICK x 100 WIDE. RUBBER INSERTION AROUND PIPE TO PROTECT PIPE FROM DAMAGE BY CONCRETE OR STRAP.
- ASSEMBLE JOINTS WITH SPIGOT END WITHDRAWN 5 TO 10 FROM BACK OF SOCKET TO ACCOMODATE EXPANSION AND CONTRACTION RESULTING FROM TEMPERATURE FLUCTUATIONS.
- PROVIDE STEEL GRILLES TO RESTRICT ACCESS WHERE THE VERTICAL DISTANCE 'X' EXCEEDS 1800. GRILLE TO BE CLAMPED ON TIGHTLY TO PREVENT MOVEMENT.

	BY:	DATE	REV.	DESCRIPTIONS	DATE	APPROVED
DESIGNED:	--	..../..../..			..../..../..	--
DRAWN:	--	..../..../..			..../..../..	--
DSGN CHECKED:	--	..../..../..			..../..../..	--
DWG CHECKED:	--	..../..../..			..../..../..	--
APPROVED:	--	..../..../..			..../..../..	--

DRAWING TITLE:	<b>STREAM CROSSING TYPICAL DETAILS</b>
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PROJECT TITLE:	<b>STANDARD DRAWING</b>
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**SAMOA WATER AUTHORITY**  
Level 2 TATTE Building  
Apia, Sogi  
Ph: +685 20409  
Fax: +685 21298



SIZE	CONTRACT NUMBER:	REVISION
A3		0
SCALE:	DRAWING NUMBER:	
N.T.S	W - 010	