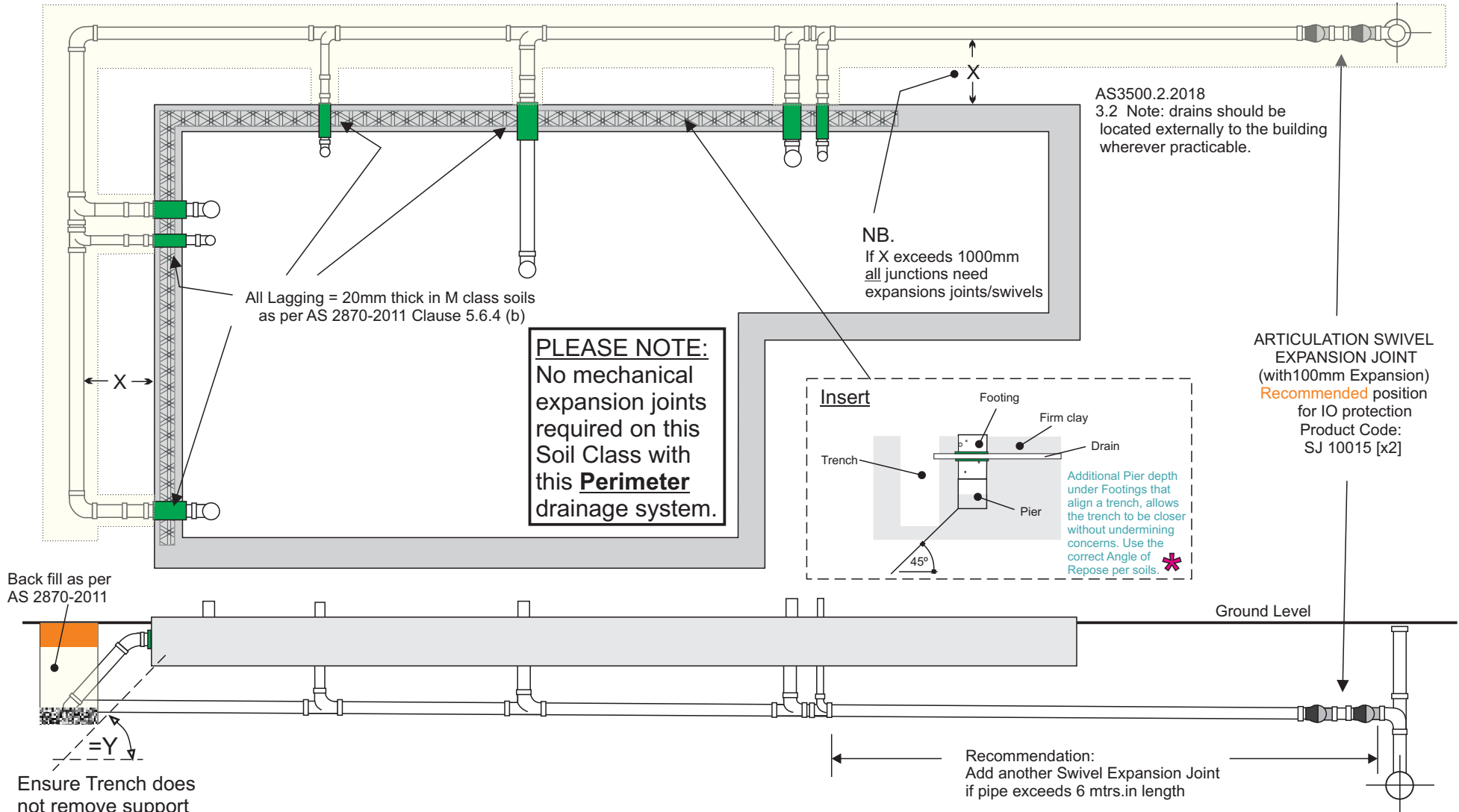


REACTIVE SOILS DRAINAGE INSTALLATION GUIDELINES

AS2870-2011 is the most radical change to interpreting soils and house engineering we have seen since 1986 and several trades will need to know what is in it and how to apply it.

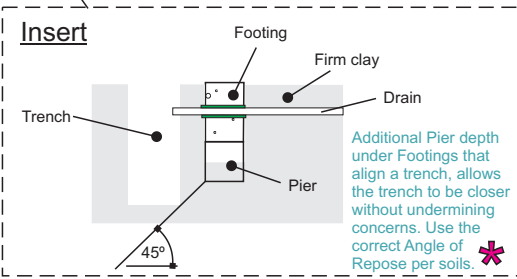


AS3500.2.2018  
3.2 Note: drains should be located externally to the building wherever practicable.

NB.  
If X exceeds 1000mm  
all junctions need  
expansions joints/swivels

All Lagging = 20mm thick in M class soils  
as per AS 2870-2011 Clause 5.6.4 (b)

**PLEASE NOTE:**  
No mechanical  
expansion joints  
required on this  
Soil Class with  
this **Perimeter**  
drainage system.



ARTICULATION SWIVEL  
EXPANSION JOINT  
(with 100mm Expansion)  
Recommended position  
for IO protection  
Product Code:  
SJ 10015 [x2]

Back fill as per  
AS 2870-2011

Ensure Trench does  
not remove support  
from footings.  
(See Insert above)

\* Y = 45 deg for Undisturbed CLAYS [1:1]  
Y = 30 deg for SAND [1:2]

For further clarification and other soil types  
see Clause/Figure 3.8.2 AS/NZS 3500.2. 2018

Recommendation:  
Add another Swivel Expansion Joint  
if pipe exceeds 6 mtrs.in length

Please refer to Storm Plastics Table No. SP-1 for additional details on flow gradients and installation



Manufactured under a quality system certified  
as complying with ISO 9001 by an accredited  
certification body

Drawing No. SP 101	LAGGED PIPEWORK ON 45 Deg SYSTEM	NOT DRAWN TO SCALE
SOIL CLASSIFICATION	<b>Class M -Strip Footings with stumps or pads</b> 21 - 40 mm Differential Movement	
AS 2870-2011	Residential Installation Guide <b>ONLY</b> for use of Mechanical Expansions Joints in Reactive Soils.	
COMPANY	STORM PLASTICS Pty Ltd	
GRADE	1:50 (200mm Fall in 10 Mtrs) Create Self Cleaning Flow	
PIPE MATERIAL	Poly Vinyl Chloride - PVC	Oct. 2019

