SECTION 949
~~BRICK AND CONCRETE MASONRY UNITS~~*MISCELLANEOUS COMPONENTS* FOR MANHOLES, INLETS AND OTHER STRUCTURES

949-1 Clay Brick and Shale Brick.

This brick shall meet the requirements of ASTM C-62, Grade MW or ASTM C-32, Grade MM.

949-2 Concrete Brick.

Concrete brick shall meet the requirements of ASTM C-55.

949-3 Concrete Masonry Units.

Concrete masonry units for use in manholes, inlets and similar structures shall meet the requirements of ASTM C139.

949-4 Precast Grade Adjustment Rings.

Precast grade adjustment rings shall meet the requirements of ASTM- C-478.

949-5 Composite Rubber Adjustment Rings.

Composite rubber adjustment rings shall meet the following minimum material requirements:

Physical Properties	*Requirements*	*Test Method*
Density, lb.~~s/cubic ft.~~ft3	*65 ± 5%*	*ASTM- D3574-05, Test A*
Durometer Hardness, Molded Surfaces, Shore A	*75A ± 10*	*ASTM D2240-05*
Tensile Strength, psi~~Molded Surfaces~~	*145 (~~psi~~ minimum)~~75 ± 10~~*	*ASTM D412-06~~ASTM D 2240-05~~*
Ultimate Elongation %~~Tensile Strength~~	*15 ± 5~~145 psi min~~*	*ASTM D412-06~~ASTM D 412-06~~*
Compression Deformation %, Initial~~Ultimate Elongation %~~	*6 ± 2~~15 ± 5~~*	*ASTM D575-91(01)*
~~Compression Deformation~~		
Compression Deformation %, Final~~Initial Compression Deformation %~~	*6 ± 2~~6 ± 2~~*	*ASTM D575-91(01)~~ASTM D 575-91(01)~~*
Coefficient of Thermal Expansion~~Final Compression Deformation %~~	*10x10-5 ± 5x10-5~~6 ± 2~~*	*ASTM E831-05*

949-~~4~~ *6* Acceptance.

Provide the Engineer a certification from the manufacturer stating that the bricks, *concrete masonry units, precast grade adjustment rings* or ~~concrete masonry units~~*composite*

rubber adjustments rings meet the requirements of this Section. Acceptance of materials will be in accordance with Section 6.