SPECIFICATION NUMBER

ENG 99-09

SPECIFICATION

FOR

THREE PHASE PADMOUNTED TRANSFORMER PAD

JUNE 1, 1999

LAKELAND ELECTRIC

ELECTRIC SYSTEM ENGINEERING

LAKELAND, FL

SPECIFICATION

1.0 75 kVA – 500 kVA

1.1 GENERAL DESCRIPTION

Pre-cast reinforced transformer pad for three phase 75-kVA – 500-kVA padmounted transformers.

1.2 DIMENSIONS

The pad shall be 87-in wide and 70-in long. It shall have a window opening of 55-in wide and 16-in deep. The pad shall be 6-in thick. The top of the pad shall have a 2-in x 2-in bevel around the top edge.

1.3 REINFORCEMENT

The pad shall be reinforced with No. 5 reinforcing steel spaced as engineering specification drawing E21TXPD002. The reinforcing rods shall be centered within the 6-in thickness dimension. The reinforcing rods shall be welded at all intersections.

1.4 CONCRETE

The concrete shall be of a ready mix design certified by the producer to develop 4000-psi strength within 28 days. Certification shall be available for review by City of Lakeland Engineering if requested

2.0 750 kVA – 1000 kVA

2.1 General Description

Pre-cast reinforced transformer pad for three phase 750-kVA – 1000-kVA padmounted transformers.

2.2 Dimensions

The pad shall be 105-in wide and 94-in long. It shall have a window opening of 66-in wide and 16-in deep. The pad shall be 8-in thick. The top of the pad shall have a 2-in x 2-in bevel around the top edge.

2.3 Reinforcement

The pad shall be reinforced with No. 5 reinforcing steel spaced as engineering specification drawing E21TXPD003. The reinforcing rods shall be centered within the 8-in thickness dimension. The reinforcing rods shall be welded at all intersections.

2.4 Concrete

The concrete shall be of a ready mix design certified by the producer to develop 4000-psi strength within 28 days. Certification shall be available for review by City of Lakeland Engineering if requested.

3.0 1500 kVA – 2500 kVA

3.1 General Description

Pre-cast reinforced transformer pad for three phase 75-kVA – 500-kVA padmounted transformers.

3.2 Dimensions

The Pad shall be 98-in wide and 100-in long. It shall have a window opening of 68-in wide and 19-in deep. The pad shall be 10-in thick. The top of the pad shall have a 2-in x 2-in bevel around the top edge.

3.3 Reinforcement

The pad shall be reinforced with No. 5 reinforcing steel spaced as engineering specification drawing E21TXPD004. The reinforcing rods shall be centered within the 10-in thickness dimension. The reinforcing rods shall be welded at all intersections.

3.4 Concrete

The concrete shall be of a ready mix design certified by the producer to develop 4000-psi strength within 28 days. Certification shall be available for review by City of Lakeland Engineering if requested.