PART I - GENERAL

1.1

PART 2 - PRODUCTS

2.1 TRAFFIC SIGNAL HEAD ASSEMBLY

A. Features:
   1. Meets or exceeds ITE specifications.
   2. Designed to provide minimum weight but maximum rigidity and strength.

B. Material: The housing, door and visor shall be injection molded of ultraviolet stabilized, pre-colored (black) opaque polycarbonate.

C. Housing:
   1. The housing shall be a one piece unit with serrations in 5 degree increments at each end. Each housing unit shall have provisions for mounting two terminal blocks and attaching backplates. Housings may be fastened together to make multi-section signals.
   2. Housing shall be designed to hold a 12 inch lens.

D. Door:
   1. The door shall be a one piece polycarbonate unit equipped with stainless steel hinge pins. Stainless steel thumbscrews shall hold the door against the housing.
   2. The door shall be black.

E. Visor:
   1. The removable twist-on visor shall be secured to the door with stainless steel hardware.
   2. The visor shall be black.

F. Reflector:
   1. The reflector shall be separately hinged.
   2. The reflector material shall be a clear specular anodized reflector material, exhibiting low brightness and low glare.

G. Lens:
   1. The lens shall conform to ITE specifications.
   2. The lens shall be LED type.

H. Lens Gasket: The lens gasket shall be a molded one piece gasket used to seal the lens to the reflector and door to form a sealed unit.

I. Lamp Socket: The Lamp Socket shall be for an LED lens.

J. Positive Positioning: Positive positioning and locking shall be achieved through the use of serrated brackets, mast arm or span wire fittings.

2.2 PEDESTRIAN SIGNAL HEAD ASSEMBLY

A. Features:
   1. Meets or exceeds ITE specifications.
   2. Designed to provide minimum weight but maximum rigidity and strength.
3. Shall have pedestrian countdown displays.

B. Material: The housing, door and reflector holder / door shall be injection molded of ultraviolet stabilized, pre-colored (black) opaque polycarbonate material.

C. Housing: The housing is a one piece unit with serrations in 5 degree increments at each end. Each housing unit shall have provisions for mounting two terminal blocks and attaching backplates. Housing units may be fastened together to make multi-section signals.

D. Visor:
   1. The visor shall be removable and made of extruded ABS material.
   2. Shall be available in tunnel or cutaway style.
   3. The visor shall be black.

E. Lens: The lens shall be LED type.

F. The reflector shall be made of aluminum, with a clear specular anodized reflector material, exhibiting low brightness and low glare.

G. Reflector Holder / Door:
   1. The reflector holder / door shall be a deep-base polycarbonate reflector housing that has a gasket to provide a completely dust-free unit.
   2. The reflector holder / door shall be black.

H. Lamp Socket: The lamp socket shall be for an LED lamp.

I. Pedestrian Countdown Displays: The timing shall be set to 3.5 feet per second in most cases, and 3.0 feet per second where there are a significant number of persons with disabilities.

J. Positive Positioning: Molded serrations shall be used to provide positive locking of sections or complete signals in any 5 degree increment about the vertical axis.

K. Hinges: The enclosed hinges shall provide a modern appearance; all hardware shall be stainless steel.

L. Mounting: The mounting shall be completely compatible with all standard signal hardware.

M. Pole:
   1. Shall be spun aluminum.
   2. Schedule 80, 4.5" OD x .438" Wall.
   3. Shall be black.
   4. Threaded on one end.

N. Base:
   1. Shall be black.
   2. Shall have threads that match the pole thread pattern.
   3. Shall be AASHTO Certified Square Aluminum base.
   4. Shall be 13.75" square X 15" high.
   5. Shall have a matching aluminum door.

O. Rigid Signal Mountings:
   1. Shall be black.
   2. Shall be aluminum.
   3. Shall be threaded.

P. Terminal Compartments:
1. Horizontal post top terminal compartment shall be aluminum with terminal strip included.
2. Shall be black.

Q. Components:
1. Pipe Fittings shall be aluminum.
2. Shall be threaded.
3. Shall be black.

PART 3 - EXECUTION

3.1

END OF SECTION 34 41 13

This section of the U of I Facilities Standards establishes minimum requirements only. It should not be used as a complete specification.