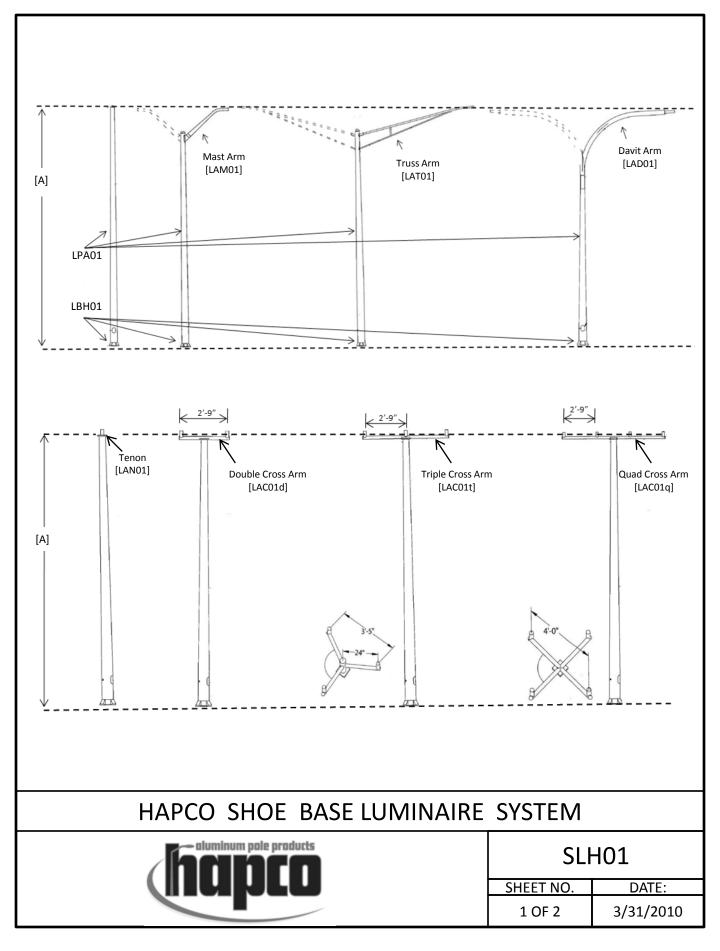
## Attachment A

Draft Drawings for Luminaire Systems, Poles, and Bases



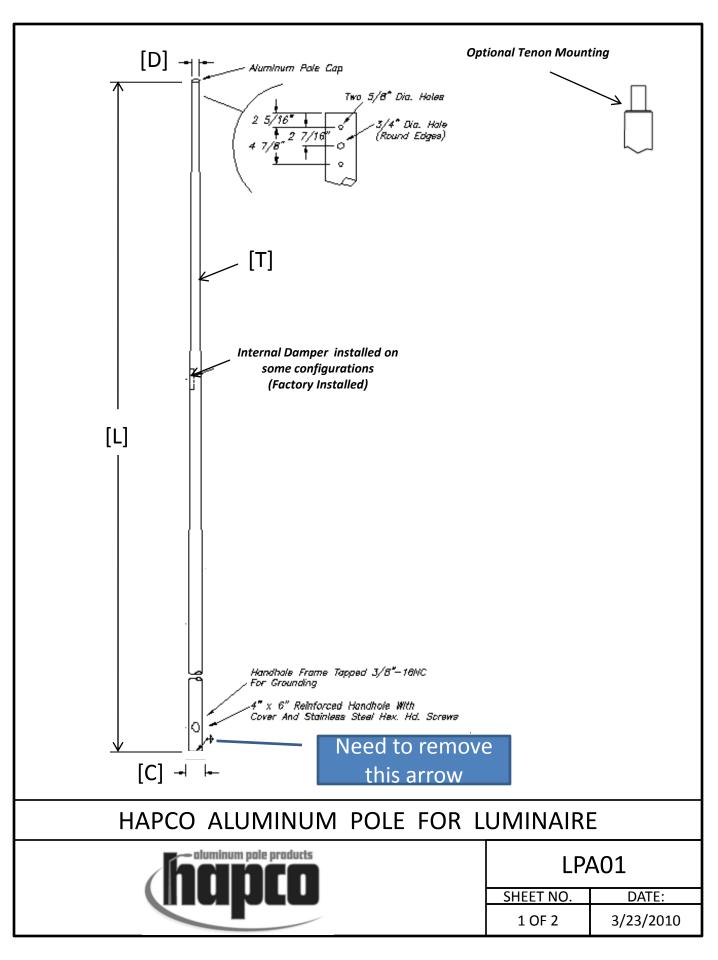
#### SPECIFICATIONS

- 1) System is available in mounting heights [A] of 20, 25 and 30 ft
- 2) System qualified for use on the National Highway System via FHWA Acceptance Letter LS-27
- 3) Designed for a basic wind speed (3 second gust) of 130 mph for a minimum design life of 50 years in accordance with "Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals "AASHTO 2001", 4<sup>th</sup> Edition when supporting a maximum EPA of 5.0 sq. ft. and a weight of 100 lbs. each
- 4) Pole (shaft) dimensions vary depending on system mounting height, type of arm, fixture weight, and desired EPA values.
- 5) Available finishes: - Satin powder coat: black, white, dark bronze, green, and grey
- 6) Warning: Do not install system without luminaire.

#### INTENDED USE

1) Place holder

# HAPCO SHOE BASE LUMINAIRE SYSTEM SLH01 SHEET NO. DATE: 2 OF 2 3/23/2010



	Butt dia	Top dia	Wall Th	ickness	Pole/Shaft
Pole (shaft) Component	[C]	[D]			Length
	(inch)	(inch)	(inch)	(*1/32 in)	[L]
LPA01-7-4-5	7	4.5	0.156	5	
LPA01-7-4-6	7	4.5	0.188	6	
LPA01-7-7-5	7	7	0.156	5	
LPA01-7-7-6	7	7	0.188	6	Varies
LPA01-8-4-6	8	4.5	0.188	6	depending
LPA01-8-4-7	8	4.5	0.219	7	on overall
LPA01-8-4-8	8	4.5	0.250	8	system
LPA01-8-6-6	8	6	0.188	6	mounting
LPA01-8-6-7	8	6	0.219	7	height and
LPA01-8-6-8	8	6	0.250	8	arm type
LPA01-8-8-6	8	8	0.188	6	
LPA01-8-8-7	8	8	0.219	7	
LPA01-8-8-8	8	8	0.250	8	

#### AVAILABLE POLE DIMENSIONS

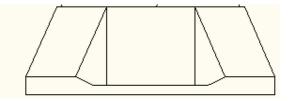
#### **SPECIFICATIONS**

- 1) Aluminum alloy 6063-T6 tube
- 2) Heat treated to T6 after welding to base support
- 3) Powder coated and texturized bronze

#### **INTENDED USE**

- 1) Designed for use with breakaway shoe base component No. LBH01
- 2) Designed for a basic wind speed (3 second gust) of 130 mph for a minimum design life of 50 years in accordance with "Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals "AASHTO 2001", 4<sup>th</sup> Edition when supporting a maximum EPA of 5.0 sq. ft. and a weight of 100 lbs. each

HAPCO ALUMINUM POLE FOR LUMINAIRE					
	LPA01				
( I IUIIU	SHEET NO.	DATE:			
	2 OF 2	3/23/2010			

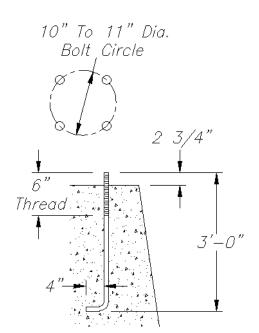


#### SPECIFICATIONS

- 1) Aluminum alloy 356-T6 with bolt covers and stainless steel hex-head bolts
- Four (4) 1" 8NC galvanized steel anchor bolts, AASHTO M314-90 Grade 55, 10" of threaded end galvanized per ASTM A153
- 3) Four (4) 1" 8NC galvanized steel hex nuts
- 4) Four (4) 1" galvanized steel Lockwashers
- 5) Four (4) 1" galvanized steel flatwashers

#### **INTENDED USE**

1) For use with pole component(s) LPA01



### HAPCO 4-BOLT SHOE BASE FOR LUMINAIRE



LBH01				
SHEET NO.	DATE:			
1 OF 1	3/24/2010			