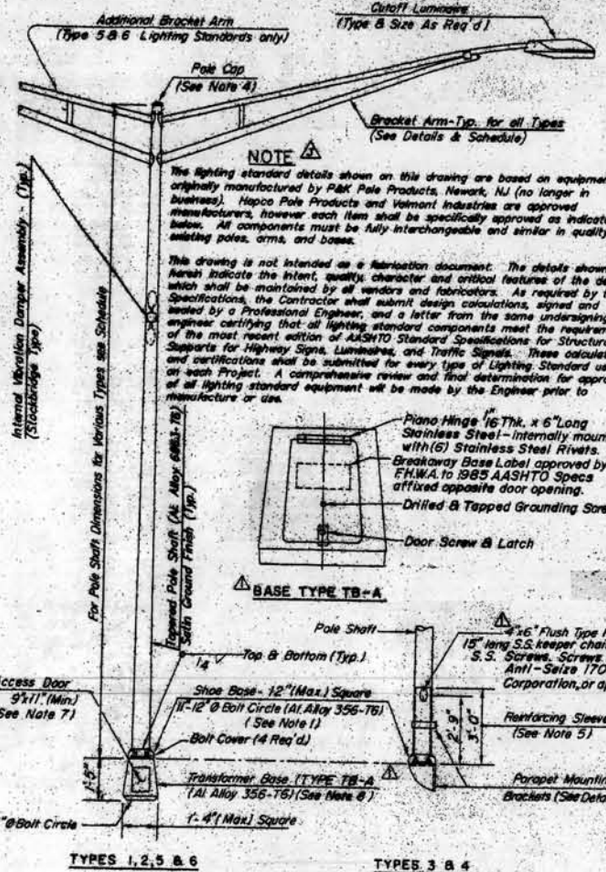
LIGHTING STANDARD SCHEDULE

LIGHTING STANDARDS							MAX. LUMINAIRE SIZES	
TYPES	MTG. ⚠	BRACKET ARM		POLE SHAFT			WEIGHT	EFF. PROJ. AREA
		NO.	LENGTH	LENGTH	TAPER	WALL THK.		
TYPE 1	TB-A	1	15'	26'-3"	8"x4"	.250"	50 #	1.2 Sq. Ft.
TYPE 2	TB-A	1	8'	26'-3"	8"x4"	.250"		
TYPE 3	MB	1	15'	27'	8"x4"	.250"		
TYPE 4	MB	1	8'	27'	8"x4"	.250"		
TYPE 5	TB-A	2	15'	26'-3"	8"x4"	.250"		
TYPE 6	TB-A	2	8'	26'-3"	8"x4"	.250"		

⚠ ✱ Transformer Base (Type as Noted) or Mounting Brackets (MB)



LIGHTING STANDARDS
No Scale

⚠ BASE TYPE TB-A

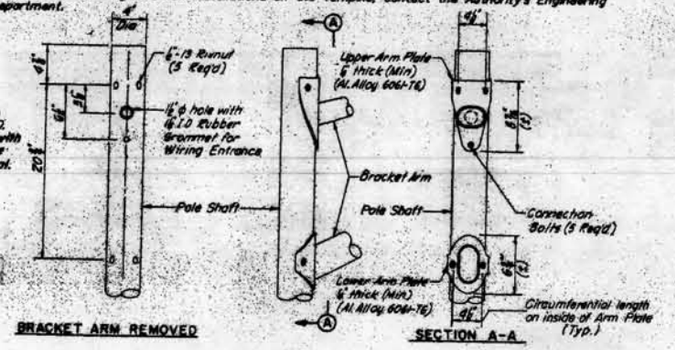
NOTE ⚠

The lighting standard details shown on this drawing are based on equipment originally manufactured by P&K Pole Products, Newark, NJ (no longer in business). Hapco Pole Products and Valmont Industries are approved manufacturers, however each item shall be specifically approved as indicated below. All components must be fully interchangeable and similar in quality with existing poles, arms, and bases.

This drawing is not intended as a fabrication document. The details shown herein indicate the intent, quality, character and critical features of the design which shall be maintained by all vendors and fabricators. As required by the Specifications, the Contractor shall submit design calculations, signed and sealed by a Professional Engineer, and a letter from the same undersigning engineer certifying that all lighting standard components meet the requirements of the most recent edition of AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals. These calculations and certifications shall be submitted for every type of Lighting Standard used on each Project. A comprehensive review and final determination for approval of all lighting standard equipment will be made by the Engineer prior to manufacture or use.

NOTES

1. Connecting bolts shall be 1" Ø hex head bolts with nuts, lockwashers and flat washers, all stainless steel (4 Req'd.)
2. Upper member - 3" O.D. tube with .120" (Min.) wall thickness, tapered to 3 1/2" x 2 3/8" elliptical section. (Al. Alloy 6063-T6).
3. Lower member - 3 1/2" O.D. tube with .120" (Min.) wall thickness, tapered to 4 1/4" x 2 3/8" elliptical section. (Al. Alloy 6063-T6).
4. Cast pole cap (Al. Alloy 356 or 43) attached with 3/8" S.S. set screws. For lighting standards with emergency luminaires, pole top slipfitter cap shall be used. (See Detail).
5. Tight fitted .188" thick reinforcing sleeve (Al. Alloy 6063-T6) shall be welded to pole shaft.
6. Transformer base shall be certified to meet 1985 AASHTO breakaway criteria and shall bear such label.
7. Transformer base door (Al. Alloy 356) shall be placed in the rear for single arm lighting standards and on the side for twin arm lighting standards.
8. ⚠ Details shown to replace existing installations only. For details of lighting standards for use on the Garden State Parkway and new installations on the Turnpike, contact the Authority's Engineering Department.

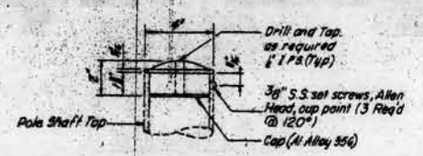


BRACKET ARM REMOVED

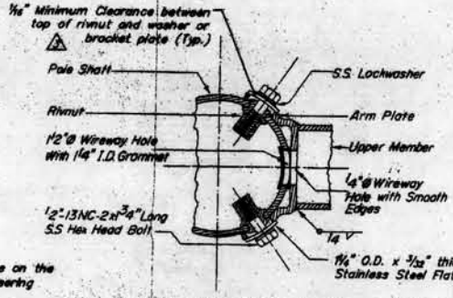
DETAIL - A

SECTION A-A

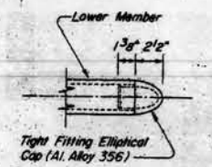
BRACKET ARM CONNECTION DETAILS
1/2" = 1'-0"



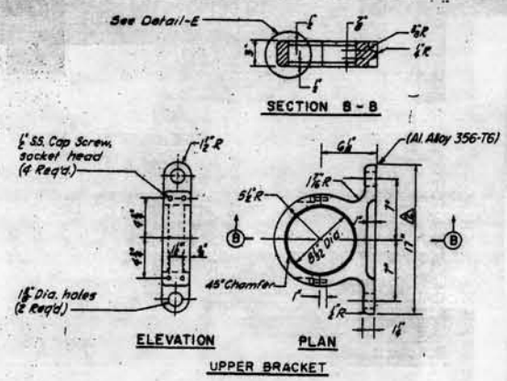
POLE TOP SLIPFITTER CAP DETAIL
(FOR EMERGENCY LIGHTING LUMINAIRES)
1/4" = 1'-0"

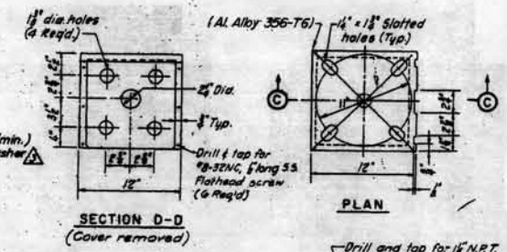


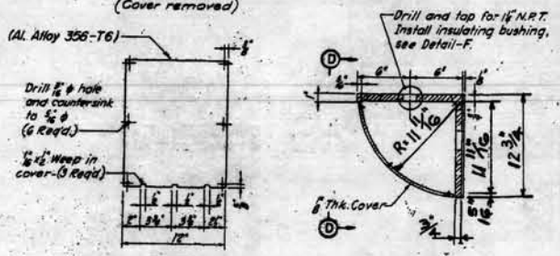
ARM CONNECTION DETAIL
No Scale
(Section Thru Rivnuts and Wireway)



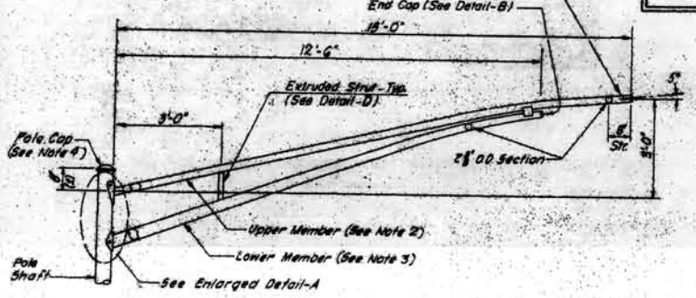
DETAIL-B
No Scale



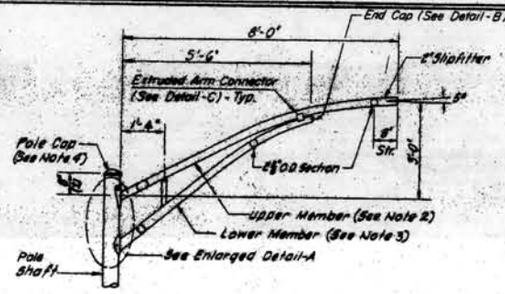




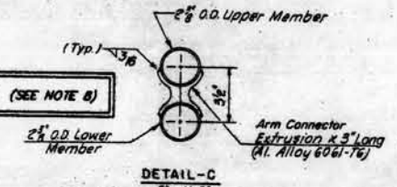
LIGHTING STANDARD MOUNTING BRACKET DETAILS
1/2" = 1'-0"



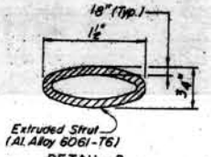
15 FT. BRACKET ARM DETAIL
1/2" = 1'-0"



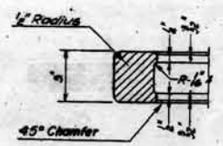
8 FT. BRACKET ARM DETAIL
1/2" = 1'-0"



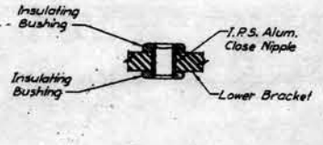
DETAIL-C
3" = 1'-0"



DETAIL - D
No Scale



DETAIL-E
No Scale



DETAIL-F
No Scale

0 1/2 1 2 3 4
ORIGINAL SIZE IN INCHES

DETAILS THIS SHEET FOR USE ON TURNPIKE ONLY (SEE NOTE 8)

APR	NO.	DATE	REVISION
	⚠	3-87	REVISED FABR. NOTES, ADDED TURNPIKE ONLY REQ.
	⚠	1-03	LGHT. STD. MOUNT. BRACKET REVISED
	⚠	2-98	REVISED NOTE AND ADDED MINOR REVISIONS
		12/96	REISSUED

NEW JERSEY TURNPIKE AUTHORITY
NEW JERSEY TURNPIKE
30 FT. LIGHTING STANDARDS
HOWARD NEEDLES TAMMEN & BERGENDOFF
330 Passaic Ave., Fairfield, New Jersey
JOHN M. ORMAN
N.J. P.E. License No. GE 39691
STANDARD DRAWING E-1

CONTRACT NO. SHEET NO. OF