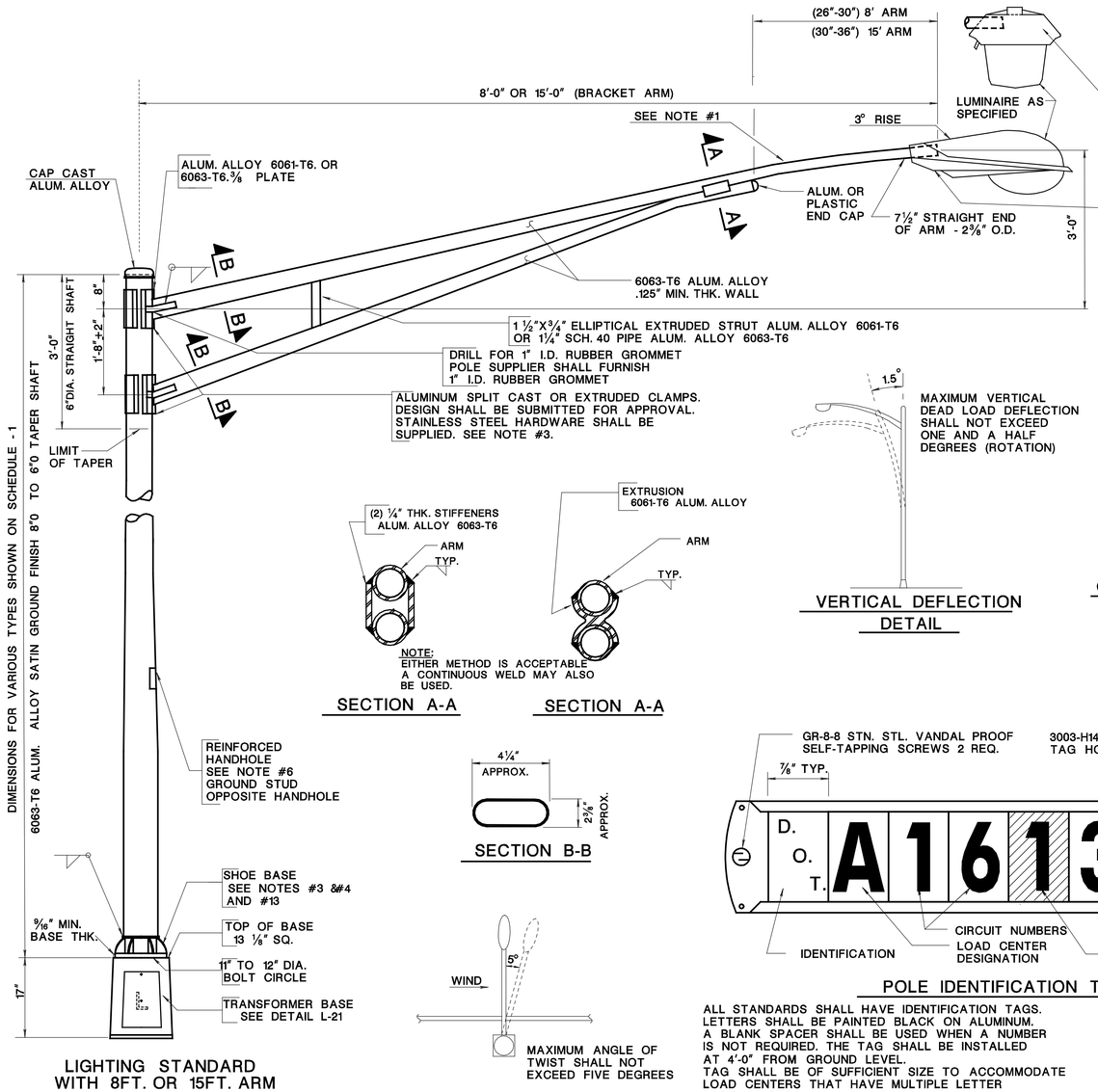


LIGHTING STANDARD WITH 8FT. OR 15FT. ARM

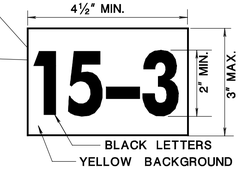
SECTION A-A SECTION A-A

SECTION B-B

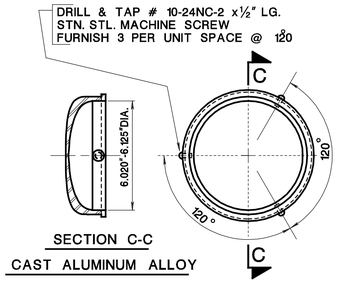
ANGLE OF TWIST DETAIL

LEGEND		
WATTAGE	TYPE II MEDIUM/SEMI CUTOFF	TYPE III MEDIUM/SEMI CUTOFF
150	15 - 2	15 - 3
250	25 - 2	25 - 3
400	40 - 2	40 - 3

HIGH PRESSURE SODIUM SHALL BE A YELLOW BACKGROUND WITH BLACK LETTERS FOR THE WATTAGE AND TYPE REQUIRED.



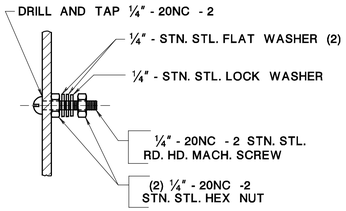
VERTICAL DEFLECTION DETAIL



SECTION C-C

CAST ALUMINUM ALLOY

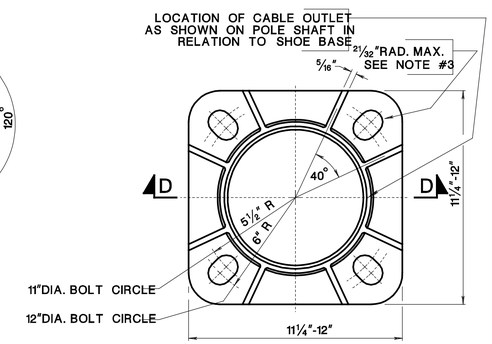
CAST ALUMINUM CAP



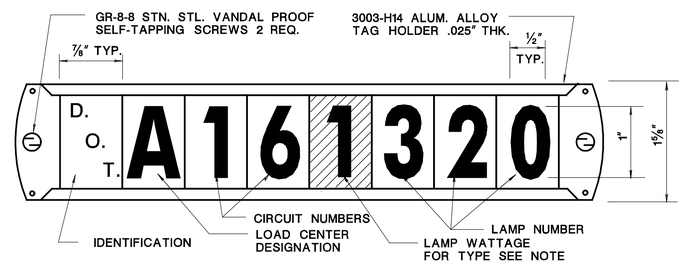
DETAIL "A"

GROUND STUD DETAIL

OPPOSITE HANDHOLE



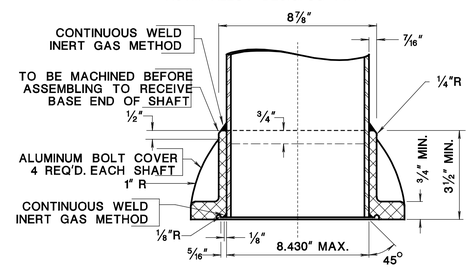
ALUMINUM ALLOY 356-T6 ASTM SPEC. NO. SAND CST'G B26 OR PERM. MOLD CST'G B108 ASTM ALLOY DESIG. SG 70A



POLE IDENTIFICATION TAG DETAIL

ALL STANDARDS SHALL HAVE IDENTIFICATION TAGS. LETTERS SHALL BE PAINTED BLACK ON ALUMINUM. A BLANK SPACER SHALL BE USED WHEN A NUMBER IS NOT REQUIRED. THE TAG SHALL BE INSTALLED AT 4'-0" FROM GROUND LEVEL. TAG SHALL BE OF SUFFICIENT SIZE TO ACCOMMODATE LOAD CENTERS THAT HAVE MULTIPLE LETTER DESIGNATIONS.

MERCURY VAPOR LAMPS SHALL BE BLUE BACKGROUND, HIGH PRESSURE SODIUM LAMPS SHALL BE YELLOW BACKGROUND, WITH THE FOLLOWING NUMBER FOR THE WATTAGE: 1=150W, 2=250W, 4=400W.



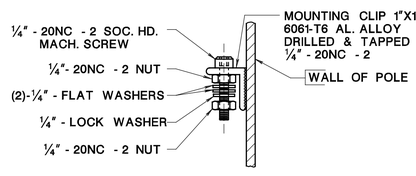
SECTION D-D

ALUMINUM SHOE BASE

1. ALTERNATE ARRANGEMENT OF TAPERED ELLIPTICAL TRUSS TYPE BRACKET ARM MEMBERS PERMISSABLE SUBJECT TO APPROVAL. WIRE MUST ENTER UPPER MEMBER 8" FROM TOP OF POLE. ALUMINUM SPLIT CLAMPS SHALL BE PROVIDED.
2. HOLE SHALL BE OF SUFFICIENT DIAMETER TO ACCEPT 1" DIAMETER BOLTS.
3. CERTIFICATIONS SHALL BE FURNISHED THAT ALUMINUM ALLOY AND TEMPER SHOWN MEET REQUIREMENTS AS SET FORTH BELOW OR AS OTHERWISE INDICATED ON DRAWING. ALUMINUM CASTINGS, PERMANENT OR SAND MOLD FOR CLAMPS AND SHOE BASE TRADE DESIGNATION 356-T6. ALUMINUM EXTRUSIONS FOR CLAMPS OR MAST ARM STRUT: CURRENT ASTM SPECIFICATIOIN B-221 ALLOY 6005-T5, 6061-T6 OR 6063-T6. THE HARDWARE SUPPLIED SHALL BE : 8-**"-13NC HARDWARE GRADE ASTM A193 B8 STAINLESS STEEL WITH 16 STAINLESS STEEL FLAT WASHERS AND 8 STAINLESS STEEL LOCK WASHERS.
4. FURNISH WITH EACH STANDARD:
   4- 1"-8NC x 3**"LONG HEX HEAD BOLTS ASTM A-193 GRADE B-8, THREADS CLASS 2 FREE FIT, STAINLESS STEEL.
   4- 2**"O.D. x 1** I.D. x **" THK. OR 2**"O.D. x 1 1/16" I.D. x ½" THK. LARGE HEAVY STEEL FLATWASHERS GLAVANIZED PER ASTM B695-85 CLASS 50.
   8- 1" DIA. PLAIN WASHERS STAINLESS STEEL.
   4- 1" DIA. LOCK WASHERS, STAINLESS STEEL.
   4- 1" DIA. HEX NUTS, STAINLESS STEEL.
   4- BOLT COVERS ALUMINUM ALLOY WITH STAINLESS STEEL SCREWS.
5. ALUMINUM LIGHTING STANDARD ASSEMBLY SHALL BE DESIGNED TO ADEQUATELY SUPPORT A LUMINAIRE OF THE WEIGHT AND PROJECTED AREA AS CALLED FOR IN SCHEDULE 1 ON THIS SHEET AND THE UNIT ASSEMBLY SHALL NOT EXCEED THE MAXIMUM REQUIREMENTS FOR VERTICAL DEFLECTION AND ANGLE OF TWIST AS SHOWN IN DETAILS WHEN SUBJECTED TO A 104 M.P.H. WIND.
6. A REINFORCED FLUSH HANDHOLE IS REQUIRED ON ALL SB LIGHTING STANDARDS AND SHALL BE LOCATED 20"-24" FROM BASE OF SHAFT. WHEN LOCATED BEHIND CHAINLINK FENCE, THE HANDHOLE SHALL BE LOCATED ONE FOOT ABOVE THE FENCE. A FIBERGLASS HANDHOLE COVER (MODIFIED FOR UV RESISTANCE) SHALL BE USED.
7. UNTAPERED 8" DIAMETER SECTION OF THE 37 FT. SHAFT WILL BE PERMITTED, BUT UNTAPERED SECTION SHALL NOT EXCEED 25 FT. MAXIMUM FROM BASE OF THE SHAFT.
8. THE LIGHTING STANDARD MUST BE CERTIFIED TO MEET CURRENT AASHTO BREAKAWAY CRITERIA FOR STRUCTURAL SUPPORTS UTILIZING A TYPE APPROVED TRANSFORMER BASE.
9. DESIGN AND MANUFACTURE ACCORDING TO THE 2001 AASHTO SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS. UTILIZE APPENDIX C OF THE SPECIFICATIONS FOR IDENTIFICATION OF LOADING CRITERIA. DESIGN WIND SPEED IS 80 MPH. FOR FATIGUE IS WAVED.
10. OPENING SHALL HAVE A MINIMUM DIAMETER OF 6". THE GEOMETRY SHALL BE DETERMINED BY THE MANUFACTURER.
11. ALL LIGHTING STANDARDS, OF A PARTICULAR TYPE, SHALL BE IDENTICAL IN ALL ASPECTS.
12. ALL DIMENSIONS OF CASTINGS SHALL BE **".
13. THE MANUFACTURER SHALL SUPPLY ALL OTHER HARDWARE WHICH HE DEEMS NECESSARY TO INSTALL THE STANDARD ON THE BASE AS WELL AS INSTRUCTION FOR INSTALLATION.
14. DO NOT INSTALL STANDARD WITHOUT ARM.

SCHEDULE 1

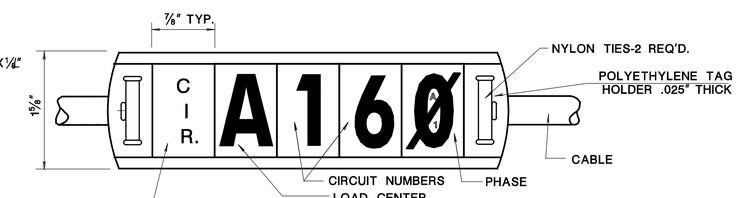
LIGHTING STANDARDS			MAX. LUMINAIRE SIZE	
SHAFT DIMENSIONS			WEIGHT	PROJ.AREA SQ.FT.
TAPER	MIN. WALL THICKNESS	LENGTH		
8"x6"	.188"	22'	75#	3.2
8"x6"	.188"	22'	75#	3.2
8"x6"	.188"	22'	75#	3.2
8"x6"	.250"	37'	75#	3.2
8"x6"	.250"	37'	75#	3.2
8"x6"	.250"	37'	75#	3.2
8"x6"	.188"	22'	75#	3.2
8"x6"	.188"	22'	75#	3.2
8"x6"	.250"	22'	75#	3.2
8"x6"	.250"	37'	74#	3.2
8"x6"	.250"	37'	74#	3.2
8"x6"	.188"	22'	75#	3.2
8"x6"	.188"	22'	75#	3.2



ALTERNATE DETAIL "D"

GROUND STUD DETAIL

OPPOSITE HANDHOLE



TAG LETTERS SHALL BE BLACK ON YELLOW. THE PHASE SYMBOL SHALL BE: A=RED, B=BROWN, C=BLUE. ALL NEUTRAL CABLE SHALL HAVE A BLANK WHITE SPACER. WHEN A LETTER IS NOT REQUIRED A YELLOW SPACER SHALL BE USED. TAGS SHALL BE INCLUDED IN ALL CABLE ITEMS. TAG SHALL BE OF SUFFICIENT SIZE TO ACCOMMODATE LOAD CENTERS THAT HAVE MULTIPLE LETTER DESIGNATIONS.

CABLE IDENTIFICATION TAG DETAIL

NEW JERSEY DEPARTMENT OF TRANSPORTATION

ELECTRICAL DETAILS

N.T.S.

LIGHTING STANDARD

L-0107

REFERENCE

BDC070-03